ALPHA ANALYTICAL

World Class Chemistry

www.alphalab.com

Lab Number: L1625234

Client: Floyd Snider, Inc.

ATTN: Teri Floyd

Project Name: LDW/AC PILOT STUDY

Project Number: LY15160310

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Sample Delivery Group Information

Sample Delivery Group Form

Laboratory Job number: L1625234
Project Manager: Elizabeth Porta **Review Date:** 08/23/2016
Project Number: LY15160310
Project Name: LDW/AC PILOT STUDY **Received:** 08/11/2016 10:58
Client Account: Floyd Snider Inc **Received by:** BB

Samples Delivered by: FEDEX **Call Tracker #**
Bill Of Laden Yes **Trackingnum** 7769 6219 0019
Coc Present Present

Container Status Intact **Sample IDs**

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt N/A **Are samples Properly Preserved?** Yes
Initial pH **preserved in house with** **Final pH**
Other Issues
Chlorine Check N/A

Are VOA/VPH Vials Present? No
Aqueous: Do Vials Contain Head Space? N/A
Soils: Is MeOHCovering the Soil? N/A
Reagent H2O Preserved vials Frozen on N/A
Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
A	Present/Intact	No	No	24.6 - IR Gun	No	No

LIMS Chain of Custody

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Sep 13 2016, 03:08 pm

Login Number: L1625234
Account: FLOYDSNI Floyd Snider IncProject: LY15160310
Received: 11AUG16 Due Date: 01SEP16

Sample #	Client ID	Mat	PR	Collected	Container
L1625234-01	LDW-BA-PC-ENRMAT-SA	3	S0	10AUG16 10:30	2-Glass-A.25,2-Glass-A.5

L1625234-01 MS L1625234-01 MSD L1625234-01 DUP Grain Size: Use both #200 and #230 sieves Soot: Report 2 reps 8270: Report List made DPKG-FULL Package Due Date: 09/01/16

A2-DUP,A2-MS/MSD,A2-SIEVE-HYDROMETER,A2-HYDRO-CFINE,A2-HYDRO-CGRAVEL,A2-HYDRO-COBBLES,A2-HYDRO-CSAND,A2-HYDRO-FGRAVEL,A2-HYDRO-FSAND,A2-HYDRO-MSAND,A2-HYDRO-SFINE,A2-HYDRO-TFINE,A2-HYDRO-TGRAVEL,A2-HYDRO-TSAND,A2-SOOT,A2-SVOC-8270,A2-TAL,A2-AG-6020T,A2-AS-6020T,A2-CD-6020T,A2-CR-6020T,A2-CU-6020T,A2-HG-7474T,A2-HGPREP-AF,A2-PB-6020T,A2-PREP-3050:1T,A2-PREP-3050:2T,A2-ZN-6020T,A2-TOC-9060-2REPS,A2-TS,DISPOSAL,DPKG-FULL

L1625234-02	LDW-BA-PC-ENRMAT-GR	3	S0	10AUG16 10:45	2-Glass-A.25,2-Glass-A.5

L1625234-02 MS L1625234-02 MSD Grain Size: Use both #200 and #230 sieves Soot: Report 2 reps 8270: Report List made Package Due Date: 09/01/16

A2-MS/MSD,A2-SIEVE-HYDROMETER,A2-HYDRO-CFINE,A2-HYDRO-CGRAVEL,A2-HYDRO-COBBLES,A2-HYDRO-CSAND,A2-HYDRO-FGRAVEL,A2-HYDRO-FSAND,A2-HYDRO-MSAND,A2-HYDRO-SFINE,A2-HYDRO-TFINE,A2-HYDRO-TGRAVEL,A2-HYDRO-TSAND,A2-SOOT,A2-SVOC-8270,A2-TAL,A2-AG-6020T,A2-AS-6020T,A2-CD-6020T,A2-CR-6020T,A2-CU-6020T,A2-HG-7474T,A2-HGPREP-AF,A2-PB-6020T,A2-PREP-3050:1T,A2-PREP-3050:2T,A2-ZN-6020T,A2-TOC-9060-2REPS,A2-TS,DISPOSAL

Logged By: Elizabeth Porta

Container Tracking

ALPHA ANALYTICAL LABORATORIES
Container Tracking Report

Container ID	Type	Status	Transaction Date	From Response	From Location	From Operator	To Response	To Location	To Operator
L1625234-01A	Glass-A.5	INTACT	07-SEP-16	CUSTODY	A2-ORGANIC PREP	Brian Anderson	A2-CUSTODY-FRZ1-V2	A2-CUSTODY-FRZ1-V2	Brian Anderson
L1625234-01A	Glass-A.5	INTACT	07-SEP-16	CUSTODY	A2-CUSTODY-REFRIG-D2	Brian Anderson	A2-ORGANIC PREP	A2-ORGANIC PREP	Brian Anderson
L1625234-01A	Glass-A.5	INTACT	06-SEP-16	CUSTODY	A2-CUSTODY-FRZ1-V2	Tyler Snook	A2-CUSTODY-REFRIG-D2	A2-CUSTODY-REFRIG-D2	Tyler Snook
L1625234-01A	Glass-A.5	INTACT	01-SEP-16	CUSTODY	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-V2	A2-CUSTODY-FRZ1-V2	Sonal Patel
L1625234-01A	Glass-A.5	INTACT	01-SEP-16	CUSTODY	A2-CUSTODY-FRZ1-V2	Sonal Patel	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Sonal Patel
L1625234-01A	Glass-A.5	INTACT	11-AUG-16	CUSTODY	A2-CUSTODY-REFRIDGE	Bethany Bedard	A2-CUSTODY-FRZ1-V2	A2-CUSTODY-FRZ1-V2	Bethany Bedard
L1625234-01A	Glass-A.5	INTACT	11-AUG-16	A2-LOGIN	A2-LOGIN	Elizabeth Porta	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Elizabeth Porta
L1625234-01B	Glass-A.25	INTACT	11-AUG-16	CUSTODY	A2-CUSTODY-NOAA4	Bethany Bedard	A2-CUSTODY-FRZ1-V2	A2-CUSTODY-FRZ1-V2	Bethany Bedard
L1625234-01B	Glass-A.25	INTACT	11-AUG-16	CUSTODY	A2-CUSTODY-REFRIDGE	Bethany Bedard	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Bethany Bedard
L1625234-01B	Glass-A.25	INTACT	11-AUG-16	A2-LOGIN	A2-LOGIN	Elizabeth Porta	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Elizabeth Porta
L1625234-01C	Glass-A.5	INTACT	24-AUG-16	A2-CUSTODY-REFRIDGE	A2-ORGANIC PREP	Daniel Robbins	A2-CUSTODY-FRZ1-V2	A2-CUSTODY-FRZ1-V2	Daniel Robbins
L1625234-01C	Glass-A.5	INTACT	24-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-FRZ1-V2	Brian Anderson	A2-ORGANIC PREP	A2-ORGANIC PREP	Brian Anderson
L1625234-01C	Glass-A.5	INTACT	11-AUG-16	CUSTODY	A2-CUSTODY-NOAA4	Bethany Bedard	A2-CUSTODY-FRZ1-V2	A2-CUSTODY-FRZ1-V2	Bethany Bedard
L1625234-01C	Glass-A.5	INTACT	11-AUG-16	CUSTODY	A2-CUSTODY-REFRIDGE	Bethany Bedard	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Bethany Bedard
L1625234-01C	Glass-A.5	INTACT	11-AUG-16	A2-LOGIN	A2-LOGIN	Bethany Bedard	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Bethany Bedard
L1625234-01D	Glass-A.25	INTACT	25-AUG-16	A2-CUSTODY-REFRIDGE	A2-METALS PREP	Lauren Connolly	A2-CUSTODY-FRZ1-V2	A2-CUSTODY-FRZ1-V2	Lauren Connolly
L1625234-01D	Glass-A.25	INTACT	25-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-FRZ1-V2	Lauren Connolly	A2-METALS PREP	A2-METALS PREP	Lauren Connolly
L1625234-01D	Glass-A.25	INTACT	24-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-V2	A2-CUSTODY-FRZ1-V2	Sonal Patel
L1625234-01D	Glass-A.25	INTACT	24-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-FRZ1-V2	Ashley Roulx	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Ashley Roulx
L1625234-01D	Glass-A.25	INTACT	11-AUG-16	CUSTODY	A2-CUSTODY-REFRIDGE	Bethany Bedard	A2-CUSTODY-FRZ1-V2	A2-CUSTODY-FRZ1-V2	Bethany Bedard
L1625234-01D	Glass-A.25	INTACT	11-AUG-16	A2-LOGIN	A2-LOGIN	Bethany Bedard	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Bethany Bedard
L1625234-02A	Glass-A.5	INTACT	11-AUG-16	CUSTODY	A2-CUSTODY-REFRIDGE	Bethany Bedard	A2-CUSTODY-FRZ1-V2	A2-CUSTODY-FRZ1-V2	Bethany Bedard
L1625234-02A	Glass-A.5	INTACT	11-AUG-16	A2-LOGIN	A2-LOGIN	Elizabeth Porta	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Elizabeth Porta
L1625234-02B	Glass-A.25	INTACT	11-AUG-16	CUSTODY	A2-CUSTODY-NOAA4	Bethany Bedard	A2-CUSTODY-FRZ1-V2	A2-CUSTODY-FRZ1-V2	Bethany Bedard
L1625234-02B	Glass-A.25	INTACT	11-AUG-16	CUSTODY	A2-CUSTODY-REFRIDGE	Bethany Bedard	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Bethany Bedard

Container ID	Type	Status	Transaction Date	From Response	Location	Operator	To Response	Location	Operator
L1625234-02B	Glass-A.25	INTACT	11-AUG-16	A2-LOGIN	A2-LOGIN	Elizabeth Porta	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Elizabeth Porta
L1625234-02C	Glass-A.5	INTACT	07-SEP-16	CUSTODY	A2-ORGANIC PREP	Brian Anderson	A2-CUSTODY-FRZ1-V2	A2-CUSTODY-FRZ1-V2	Brian Anderson
L1625234-02C	Glass-A.5	INTACT	07-SEP-16	CUSTODY	A2-CUSTODY-REFRIG-D2	Brian Anderson	A2-ORGANIC PREP	A2-ORGANIC PREP	Brian Anderson
L1625234-02C	Glass-A.5	INTACT	06-SEP-16	CUSTODY	A2-CUSTODY-FRZ1-V2	Tyler Snook	A2-CUSTODY-REFRIG-D2	A2-CUSTODY-REFRIG-D2	Tyler Snook
L1625234-02C	Glass-A.5	INTACT	24-AUG-16	A2-CUSTODY-REFRIDGE	A2-ORGANIC PREP	Daniel Robbins	A2-CUSTODY-FRZ1-V2	A2-CUSTODY-FRZ1-V2	Daniel Robbins
L1625234-02C	Glass-A.5	INTACT	24-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-FRZ1-V2	Brian Anderson	A2-ORGANIC PREP	A2-ORGANIC PREP	Brian Anderson
L1625234-02C	Glass-A.5	INTACT	11-AUG-16	CUSTODY	A2-CUSTODY-NOAA4	Bethany Bedard	A2-CUSTODY-FRZ1-V2	A2-CUSTODY-FRZ1-V2	Bethany Bedard
L1625234-02C	Glass-A.5	INTACT	11-AUG-16	CUSTODY	A2-CUSTODY-REFRIDGE	Bethany Bedard	A2-CUSTODY-NOAA4	A2-CUSTODY-NOAA4	Bethany Bedard
L1625234-02C	Glass-A.5	INTACT	11-AUG-16	A2-LOGIN	A2-LOGIN	Bethany Bedard	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Bethany Bedard
L1625234-02D	Glass-A.25	INTACT	25-AUG-16	A2-CUSTODY-REFRIDGE	A2-METALS PREP	Lauren Connolly	A2-CUSTODY-FRZ1-V2	A2-CUSTODY-FRZ1-V2	Lauren Connolly
L1625234-02D	Glass-A.25	INTACT	25-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-FRZ1-V2	Lauren Connolly	A2-METALS PREP	A2-METALS PREP	Lauren Connolly
L1625234-02D	Glass-A.25	INTACT	24-AUG-16	A2-CUSTODY-REFRIDGE	A2-WET CHEMISTRY	Sonal Patel	A2-CUSTODY-FRZ1-V2	A2-CUSTODY-FRZ1-V2	Sonal Patel
L1625234-02D	Glass-A.25	INTACT	24-AUG-16	A2-CUSTODY-REFRIDGE	A2-CUSTODY-FRZ1-V2	Ashley Roulx	A2-WET CHEMISTRY	A2-WET CHEMISTRY	Ashley Roulx
L1625234-02D	Glass-A.25	INTACT	11-AUG-16	CUSTODY	A2-CUSTODY-REFRIDGE	Bethany Bedard	A2-CUSTODY-FRZ1-V2	A2-CUSTODY-FRZ1-V2	Bethany Bedard
L1625234-02D	Glass-A.25	INTACT	11-AUG-16	A2-LOGIN	A2-LOGIN	Bethany Bedard	A2-CUSTODY-REFRIDGE	A2-CUSTODY-REFRIDGE	Bethany Bedard

Communications

Call Tracker Report

Call # 86982

Call #:	86982	Contact:	Gretchen Heavner
Call Date:	08/11/16 18:28	Company:	Floyd Snider Inc
Status:	NEED	Acct #:	FLOYDSNI
Date:	08/11/16 18:28	Project #:	LY15160310
Operator:	LPORTA	Client Proj:	LDW/AC PILOT STUDY
Type:	Live	Login #:	L1625234

Call Details

Samples not rec'd on ice. Ok per client "not environmental samples, so not necessary to chill", see COC

Gretchen Heavner
1:13 PM (25 minutes ago)

to me
Hi Liz,
Yes, we would like an MS/MSD run for those two samples for 6020, 7474, 8270, TOC and black carbon.
Thanks!

Gretchen Heavner, Ph.D.
FLOYD | SNIDER
601 Union Street, Suite 600 | Seattle, WA 98101
tel: 206.292.2078 | fax: 206.682.7867
Gretchen.Heavner@floydsnider.com | www.floydsnider.com

Chain of Custody

CHAIN OF CUSTODY

PAGE 1 OF 1

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Date Rec'd in Lab:

ALPHA Job #: L1625234

Project Information

Project Name: LDW/AC Pilot Study
Project Location: LDW
Project #: LY15160310
Project Manager: Liz Porta
ALPHA Quote #: M2015033

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due:

Report Information - Data Deliverables

☐ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #:

Client Information

Client: AmecFoster Wheeler
Address: 3500 188th St. SW Suite 601
Lynnwood, WA 98037
Phone: 425-921-4008
Email: jessica.youngblood@amecfw.com
*EDD format should be as developed w/ Floyd Snider

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:
POC: Gretchen Heavner
- gretchen.heavner@floydsnider.com
#206.292.2078
- Please refer to Gretchen for all technical questions

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC: ☐ 8260 ☐ 624 ☐ 524.2	SVOC: ☐ ABN ☐ PAH	METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15	METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13	EPH: ☐ Ranges & Targets ☐ Ranges Only	VPH: ☐ Ranges & Targets ☐ Ranges Only	☐ PCB ☐ PEST	TPH: ☐ Quant Only ☐ Fingerprint	TAL Metals EPA 6000/7470	SVOCs EPA 8270D	TOC EPA 9060A(m)	Grain Size ASTM D422	Black Carbon Gustafson (1997)	Sample Comments	TOTAL # BOTTLES
25234-1	LDW-BA-PC-ENRMAT-SAND	8/10/16	1030	Sediment	RG									X	X	X	X	X		4
↓ -2	LDW-BA-PC-ENRMAT-GRVSAND	8/10/16	1045	Sediment	RG									X	X	X	X	X		4
													Container Type	AG	AG	AG	AG	AG		
													Preservative	NA	NA	NA	NA	NA		

SAMPLE INFO
Filtration
☐ Field
☐ Lab to do
Preservation
☐ Lab to do

W/ Teflon Lid
Not environmental sample so not necessary for 1111

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
Jessica Youngblood	8/10/16	Fedex	
Fedex		[signature]	08/11/16 10:58

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

Metals

Mercury
Analysis

Sample Raw Data

Analysis Report - Filename: O:\Metals\Millenium\WG927330.rsf

R896318 LC1°

Pos	Runs	Type	Name	ID / Action	Conc	Pk Ht	Pk Area	Baseline	Message	Flag	Slope/ CFm	Intercept	Dilutio Factor	SD	RSD	Cal	Method	Date/Time
7	1	Cal	0.00	STD0	0.00	0.095740	3.324675	-0.004951	---		0.000000	0.000000	---	---	---	D	7474	30 Aug 16 12:47
8	1	Cal	0.050	STD1	0.050	1.890306	121.076675	0.016133	---		35.891319	0.095740	---	---	---	D	7474	30 Aug 16 12:49
9	1	Cal	0.100	STD2	0.100	3.476799	222.436859	0.025632	---		33.810593	0.130419	---	---	---	D	7474	30 Aug 16 12:52
10	1	Cal	0.500	STD3	0.500	17.924700	1164.504883	0.002321	---		35.723148	0.041675	---	---	---	D	7474	30 Aug 16 12:54
11	1	Cal	2.000	STD4	2.000	72.341660	4699.372559	-0.023639	---		36.162140	-0.020093	---	---	---	D	7474	30 Aug 16 12:57
12	1	Cal	5.000	STD5	5.000	175.335968	11357.983398	-0.167213	---		35.120628	0.398727	---	---	---	D	7474	30 Aug 16 13:00
13	1	QC	ICV7474	Ignore	2.028198 X	71.630333	4876.055664	-0.207856	Fail		35.120628	0.398727	---	---	---	D	7474	30 Aug 16 13:03
7	1	QC	ICB7474	Ignore	-0.001595 ✓	0.342719	-160.662628	-0.342719	Fail		35.120628	0.398727	---	---	---	D	7474	30 Aug 16 13:05
13	1	QC	ICV7474	Ignore	2.296781 ✓	81.063126	5355.643555	-0.008742	Pass		35.120628	0.398727	---	---	---	D	7474	30 Aug 16 13:23
7	1	QC	ICB7474	Ignore	-0.008116 ✓	0.113703	-60.485813	-0.113703	Fail		35.120628	0.398727	---	---	---	D	7474	30 Aug 16 13:26
14	1	Sample	WG925968-1-T-LC D5		-0.008802 ✓	0.089582	5.431017	-0.007982	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 13:33
15	1	Sample	WG925968-2-T-LC D50		3.627622 ✓	127.810112	7678.539551	0.017671	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 13:36
16	1	Sample	L1625226-01-T-LC D5		0.211143	7.814214	478.548492	-0.190862	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 13:39
17	1	Sample	WG925968-3-T-LC D5		0.284035	10.374229	658.000732	0.101135	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 13:41
18	1	Sample	WG925968-4-T-LC D5		2.609520	92.046707	6025.360840	0.154689	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 13:44
19	1	Sample	L1625226-02-T-LC D5		0.307445	11.196372	705.068787	-0.219349	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 13:47
20	1	Sample	L1625226-03-T-LC D5		0.714187	25.481426	1590.945313	0.218578	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 13:49
21	1	Sample	L1625226-06-T-LC D5		0.289074	10.551170	635.200317	0.482853	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 13:52
22	1	Sample	L1625226-07-T-LC D5		0.290583	10.604185	656.141113	0.179493	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 13:54
13	1	QC	CCV7474	Ignore	2.331988 ✓	82.299614	5366.094727	0.162886	Pass		35.120628	0.398727	---	---	---	D	7474	30 Aug 16 13:56
7	1	QC	CCB7474	Ignore	-0.003817 ✓	0.264661	-98.539902	-0.264661	Fail		35.120628	0.398727	---	---	---	D	7474	30 Aug 16 13:59
23	1	Sample	~~WG925963-1-T-LC~~ L1625226-08 D5		0.524675	18.825642	1221.796631	-0.018519	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 14:08
24	1	Sample	WG925963-~~2~~ 1-T-LC D50		-0.009454	0.066694	-31.009447	0.088515	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 14:10
25	1	Sample	~~L1625224-01-T-LC~~ WG925963-2 D50		3.654510	128.747421	7679.791504	0.042078	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 14:13
26	1	Sample	~~WG925968-3-T-LC~~ L1625231-01 D5		0.042964	1.907852	103.057495	-0.169459	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 14:15
27	1	Sample	WG925963-~~1~~ 3-T-LC		0.086071	2.719198	166.909821	0.080804	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 14:18

LC 08/31/16

Printed: 8/31/2016 8:13:59 AM Measured by: LC 08/31/16 Generated by: _____ Signature: _____ Pa

Analysis Report - Filename: O:\Metals\Millenium\WG927330.rsf

Pos	Runs	Type	Name	ID / Action	Conc	Pk Ht	Pk Area	Baseline	Message	Flag	Slope/ CFm	Intercept	Dilutio Factor	SD	RSD	Cal	Method	Date/Time
			D5															
28	1	Sample	WG925963-~~5~~4-T-D5	LC	2.531339	89.300957	5681.670898	0.057367	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 14:20
29	1	Sample	~~L1625234-02~~ WG925963-5 T-D5	LC	2.459441	86.775833	5606.383789	-0.212647	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 14:23
30	1	Sample	~~WG925963-6~~ L1625234-02 T-D5	LC	0.026734	1.337635	29.889311	0.051605	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 14:26
31	1	Sample	WG925963-~~7~~6-T-D5	LC	2.323362	81.996666	5221.584961	0.089694	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 14:28
13	1	QC	CCV7474	Ignore	2.315763 ✓	81.729759 ✓	5265.077637	-0.053717	Pass		35.120628	0.398727	---	---	---	D	7474	30 Aug 16 14:30
7	1	QC	CCB7474	Ignore	-0.007215	0.145328	-155.637192	-0.067533	Fail		35.120628	0.398727	---	---	---	D	7474	30 Aug 16 14:33
32	1	Sample	WG925963-7-T-D5	LC	2.537474	89.516396	5807.995605	-0.011883	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 14:48
33	1	Sample	WG925975-1-T-D5	LC	-0.007470 ✓	0.136368	5.023052	-0.010655	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 15:18
34	1	Sample	WG925975-2-T-D50	LC	3.457754 ✓	121.837227	7285.293945	0.011695	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 15:21
35	1	Sample	L1625082-01-T-D5	LC	0.520256	18.670460	1174.918701	0.107612	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 15:24
36	1	Sample	L1625082-02-T-D5	LC	0.286271	10.452758	638.476318	0.310893	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 15:26
37	1	Sample	L1625082-03-T-D5	LC	0.223591	8.251369	502.967499	0.263103	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 15:29
38	1	Sample	WG925975-3-T-D5	LC	0.345487	12.532456	790.953857	0.208831	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 15:31
39	1	Sample	WG925975-4-T-D5	LC	2.572880	90.759895	5801.355957	0.211481	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 15:34
40	1	Sample	~~L1625082-04~~ WG925975-5 T-D5	LC	2.527480	89.165413	5691.050781	-0.073746	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 15:36
41	1	Sample	L1625082-~~06~~4-T-D5	LC	0.205789	7.626170	432.315277	0.030268	---		35.120628	0.398727	1	---	---	D	7474	30 Aug 16 15:39
13	1	QC	CCV7474	Ignore	2.526464 ✓	89.129738	5654.901855	0.219851	Pass		35.120628	0.398727	---	---	---	D	7474	30 Aug 16 15:41
7	1	QC	CCB7474	Ignore	-0.004250 ✓	0.249478	-144.923981	-0.249478	Fail		35.120628	0.398727	---	---	---	D	7474	30 Aug 16 15:44
42	1	Sample	L1625082-05-T-D5	LC	0.170458	6.385320	392.677643	0.016766	---		35.120628	0.398727	1	---	---	D	7474	31 Aug 16 08:09
13	1	QC	CCV7474	Ignore	2.455686 ✓	86.643959	5332.216309	-0.033756	Pass		35.120628	0.398727	---	---	---	D	7474	31 Aug 16 08:06
7	1	QC	CCB7474	Ignore	-0.007286 ✓	0.142825	-57.097564	-0.142825	Fail		35.120628	0.398727	---	---	---	D	7474	31 Aug 16 08:11

LC 08/31/16

Printed: 8/31/2016 8:13:59 AM Measured by: LC 08/31/16 Generated by:_____ Signature:_____ Pa

Calibration Report -

General Details

Measured By :

Calibration #: Default

Fit Type : Least Squares

Unit : ppb

Slope : 35.120628

Y Intercept : 0.398727

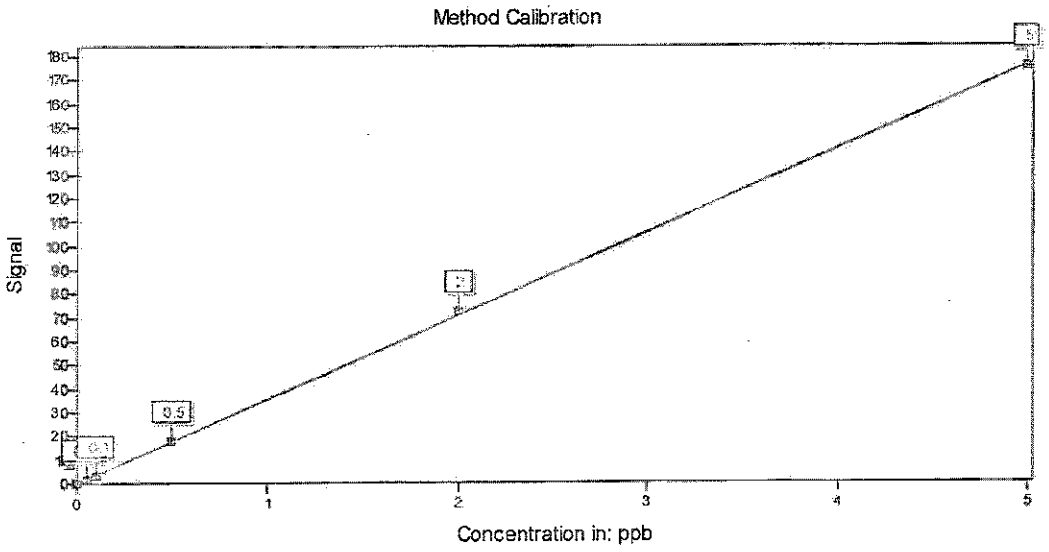
Correlation Coefficient : 0.999923

Reslope %:

Method Name: 7474

Definition of Standards

Include	*Pos*	*Runs*	*Conc*	*Pk Ht*	*Pk Area*	*Res %*	*Res Conc*	*Date/Time*
Yes	7	1	0.00	0.095740	3.324675	0.000000	-0.008627	30 Aug 2016 12:47
Yes	8	1	0.050	1.890306	121.076675	-15.059648	-0.007530	30 Aug 2016 12:49
Yes	9	1	0.100	3.476799	222.436859	-12.357141	-0.012357	30 Aug 2016 12:52
Yes	10	1	0.500	17.924700	1164.504883	-0.195561	-0.000978	30 Aug 2016 12:54
Yes	11	1	2.000	72.341660	4699.372559	2.422616	0.048452	30 Aug 2016 12:57
Yes	12	1	5.000	175.335968	11357.983398	-0.379208	-0.018960	30 Aug 2016 13:00



Printed: 8/31/2016 8:14:06 AM Generated by: LC 08/31/16 Signature:_____ Page 1 of 1

Method Set-up Report: C:\Program Files\P S Analytical\Millennium\Methods\7474.mef

Name, Time, Originator/Modifier

Method Title :	7474
Method History :	597
Method Type :	Millennium Merlin
Method Name :	7474
Last Modified :	29 Aug 2016
Modified by :	

Method Parameters

Unit :	ppb	Idle Actions Active:	Yes
Allow Auto-Range :	No	- Idle After :	6 mins
Gain :	10	- Switch off Pump 1:	Yes
Mode :	Ratio	- Switch off Pump 2 :	Yes
Measurement Mode :	Height	- Switch off Analysis Gas :	Yes
Baseline Check Type :	Units	- Switch off Dryer Gas:	Yes
Baseline Check Value:	1		
Filter Factor :	32	Over Range Action:	Run Blank Wash
Auto Zero:	Yes	- Blank/Wash Sampler Pos:	7
Allow Negative Results:	Yes	- # Repeats:	1
Blank Subtraction:	No	- Blank Pk Height:	1.00

Instrument Parameters

Delay Period (s) :	15
Analysis Period (s) :	60
Memory Period (s) :	60
Pump 1 Speed (%) :	100%
Pump 2 Speed (%) :	100%
Valve Flush :	On

Notes

CAL= C082916VH4
ICV= I082916VH4
10% HCl= MW060916B
SnCl2= MW083016Sn02 ✓
MERCURYAF2
SEQUENCE REVIEWER

Printed: 8/31/2016 8:14:09 AM Generated by: LC 08/31/16 Signature:_____ Page 1 of 1

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 12 2016, 03:52 pm

Work Group: WG925963 for Department: 5 Inorganics Preparation

Created: 25-AUG-16 Due: Operator: LC

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1625234-01	LDW-BA-PC-ENRMAT-SAN	C	A2-HG-7474T	SOIL	DONE	U	0907	0901	S0	Glass-A.5
L1625234-02	LDW-BA-PC-ENRMAT-GRA	C	A2-HG-7474T	SOIL	DONE	U	0907	0901	S0	Glass-A.5
WG925963-1	Laboratory Method Bl	S	A2-HG-7474T	SOIL	DONE	U				
WG925963-10	Cal Standard 1	S	A2-HG-7474T	SOIL	DONE	U				
WG925963-11	Cal Standard 2	S	A2-HG-7474T	SOIL	DONE	U				
WG925963-12	Cal Standard 3	S	A2-HG-7474T	SOIL	DONE	U				
WG925963-13	Cal Standard 4	S	A2-HG-7474T	SOIL	DONE	U				
WG925963-14	Cal Standard 5	S	A2-HG-7474T	SOIL	DONE	U				
WG925963-15	Initial Calibration	S	A2-HG-7474T	SOIL	DONE	U				
WG925963-16	Initial Calibration	S	A2-HG-7474T	SOIL	DONE	U				
WG925963-2	Laboratory Control S	S	A2-HG-7474T	SOIL	DONE	U				
WG925963-3	Duplicate Sample	S	A2-HG-7474T	SOIL	DONE	U				
WG925963-4	Matrix Spike	S	A2-HG-7474T	SOIL	DONE	U				
WG925963-5	Matrix Spike Duplica	S	A2-HG-7474T	SOIL	DONE	U				
WG925963-6	Matrix Spike	S	A2-HG-7474T	SOIL	DONE	U				
WG925963-7	Matrix Spike Duplica	S	A2-HG-7474T	SOIL	DONE	U				
WG925963-8	Serial Dilution	S	A2-HG-7474T	SOIL	DONE	U				
WG925963-9	Calibration Blank	S	A2-HG-7474T	SOIL	DONE	U				

Comments:

WG925963-3	L1625234-01
WG925963-4	L1625234-01
WG925963-5	L1625234-01
WG925963-6	L1625234-02
WG925963-7	L1625234-02
WG925963-8	L1625234-02

Sample Preparation

METALS ELN REPORT

Workgroup: WG925963

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Srm Spikelot	Use Srm For Lcs	Pipette Id
EPA 7474	HNO3	MS050916A	BrCl	MW082516A	METALS	HPHGAF	I081516V	D089-540	Y	WHG-24

Additional Reagent/Std	HCl	MS071516A

Sample/ Type	Digestion Date	Analyst	Sample Weight **g**	Balance Id	Spike Amt **ml**	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Reaction Start	Reaction Stop	Final Vol	**Comments**
WG925963-1 BLANK	08/25/16 14:10	Lauren Connolly	1	14621306		08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	
WG925963-2 LCS	08/25/16 14:10	Lauren Connolly	.55	14621306	.55	08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	
WG925963-3 DUP	08/25/16 14:10	Lauren Connolly	1	14621306		08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	
WG925963-4 MS	08/25/16 14:10	Lauren Connolly	1.2	14621306	.625	08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	
WG925963-5 MSD	08/25/16 14:10	Lauren Connolly	.9	14621306	.625	08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	
WG925963-6 MS	08/25/16 14:10	Lauren Connolly	.87	14621306	.625	08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	
WG925963-7 MSD	08/25/16 14:10	Lauren Connolly	1.17	14621306	.625	08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	
WG925963-8 SERDIL	08/25/16 14:10	Lauren Connolly	1.18	14621306		08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	
WG925963-9 CALBLANK	08/25/16 14:10	Lauren Connolly	.95	14621306		08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	
L1625234-01 SOIL	08/25/16 14:10	Lauren Connolly	1.18	14621306		08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	
L1625234-02 SOIL	08/25/16 14:10	Lauren Connolly	.95	14621306		08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	
WG925963-10 STD1	08/25/16 14:10	Lauren Connolly	1	14621306		08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	
WG925963-11 STD2	08/25/16 14:10	Lauren Connolly	1	14621306		08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	

Reported: 12-SEP-16 03:52 PM

METALS ELN REPORT

Workgroup: WG925963

Sample/ Type	Digestion Date	Analyst	Sample Weight g	Balance Id	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Reaction Start	Reaction Stop	Final Vol	Comments
WG925963-12 STD3	08/25/16 14:10	Lauren Connolly	1	14621306		08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	
WG925963-13 STD4	08/25/16 14:10	Lauren Connolly	1	14621306		08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	
WG925963-14 STD5	08/25/16 14:10	Lauren Connolly	1	14621306		08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	
WG925963-15 ICV	08/25/16 14:10	Lauren Connolly	1	14621306		08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	
WG925963-16 ICB	08/25/16 14:10	Lauren Connolly	1	14621306		08/25/16 14:10	1	95	08/30/16 12:17	08/29/16 07:00	08/30/16 12:17	50	

Reagent	Actual Volume	Units
Hydrochloric Acid (HCl)	3.75	ml
Nitric Acid (HNO3)	1.25	ml
Bromine Chloride (BrCl)	2	ml

Reported: 12-SEP-16 03:52 PM

True Values

Table IV: Initial Calibration Levels and ICV/CCV Concentrations

Analyte	STD1	STD2	ICV,CCV
	(µg/L)	(µg/L)	(µg/L)
Ag		100	50
Al	10050		5050
As	100		50
B	100		50
Ba		100	50
Be	100		50
Ca	10100		5050
Cd	100		50
Co	100		50
Cr	100		50
Cu	100		50
Fe	10100		5050
K	10000		5500
Mg	10100		5050
Mn	100		50
Mo	100		50
Na	10000		5050
Ni	100		50
Pb	100		50
Sb	100		50
Se	100		50
Si	50		25
Sn	100		50
Sr	100		50
Ti	100		50
Tl	100		50
V	100		50
Zn	100		50
W	1	100	50

Interferent ICSA, ICSAB	(mg/L)
Cl^-	2000
Ca	300
Fe, Na	250
Al, Mg, P, K, S	100
C	200
Mo, Ti	2

All analyte concentrations in ICSAB = 100 ppb except for Ag and Ba = 50 ppb

Table IV: Initial Calibration Levels and ICV/CCV Concentrations (MCP)

Analyte	STD1	STD2	STD3	STD4	STD5	ICV,CCV
			(µg/L)	(µg/L)		(µg/L)
Ag	0.2		10		100	50
Al	10	10000		20000		10100
As	0.5	100		1000		100
B	1	100		1000		100
Ba	1	100		1000		100
Be	0.3	100		1000		100
Ca	100	10000		20000		10100
Cd	0.2	100		1000		100
Co	0.2	100		1000		100
Cr	0.5	100		1000		100
Cu	0.5	100		1000		100
Fe	10	10000		20000		10100
K	100	10000		20000		11000
Mg	100	10000		20000		10100
Mn	10	100		1000		100
Mo	1	100		1000		100
Na	100	10000		20000		10100
Ni	0.5	100		1000		100
Pb	0.2	100		1000		100
Sb	0.5	10		100		50
Se	1	100		1000		100
Si	10	100		1000		25
Sn	1	100		1000		100
Sr	5	100		1000		100
Ti	5	100		1000		100
Tl	0.2	100		1000		100
V	5	100		1000		100
Zn	10	100		1000		100
W	5	100		1000		100

Interferent ICSA, ICSAB	(mg/L)
Cl^-	2000
Ca	300
Fe, Na	250
Al, Mg, P, K, S	100
C	200
Mo, Ti	2

All analyte concentrations in ICSAB = 100 ppb except for Ag and Ba = 50 ppb

Analyte	LCS,MS Water	LCS,MS soil	LCS,MS Tissue
	(µg/L)	(µg/L)	(µg/L)
Ag	20	40	40
Al	5000	20000	10000
As	1000	4000	2000
B	1000	4000	2000
Ba	1000	4000	2000
Be	500	2000	1000
Ca	5000	4000	10000
Cd	500	2000	1000
Co	1000	4000	2000
Cr	1000	4000	2000
Cu	1000	4000	2000
Fe	5000	20000	10000
K	5000	20000	10000
Mg	5000	20000	10000
Mn	1000	4000	2000
Mo	1000	4000	2000
Na	5000	20000	10000
Ni	1000	4000	2000
Pb	1000	4000	2000
Sb	20	40	40
Se	1000	4000	2000
Si	1000	4000	2000
Sn	250	1000	500
Sr	1000	4000	2000
Ti	1000	4000	2000
Tl	1000	4000	2000
V	1000	4000	2000
Zn	1000	4000	2000
W	100	200	200

Mercury: ICV, CCV, LCS and MS = 2.5 ppb.
Arsenic Hydride, Selenium Hydride: ICV, CCV, LCS and MS = 5 ppb.
Mercury by Method 1631: ICV,CCV = 0.005 ppb, LCS, MS = 0.005 ppb.

ICPMS
Analysis

Sequence Logs

Dataset Report

User Name: metals-instrument
Computer Name: A2-00887
Dataset File Path: C:\Elandata\DataSet\wg926086\
Report Date/Time: Friday, August 26, 2016 09:11:20

The Dataset

Batch ID	Sample ID	Date and Time	Read Type
	Blank	18:45:28 Thu 25-Aug-16	Blank
	Blank	18:52:45 Thu 25-Aug-16	Blank
	Blank	18:55:52 Thu 25-Aug-16	Blank
	Blank	18:57:07 Thu 25-Aug-16	Blank
	Standard 1	18:57:58 Thu 25-Aug-16	Standard #1
	Standard 2	18:58:49 Thu 25-Aug-16	Standard #3
	QC Std 1	19:00:00 Thu 25-Aug-16	QC Std #1
	QC Std 1	19:01:44 Thu 25-Aug-16	QC Std #1
	QC Std 2	19:02:46 Thu 25-Aug-16	QC Std #2
	QC Std 3	19:03:48 Thu 25-Aug-16	QC Std #3
	QC Std 7	19:04:56 Thu 25-Aug-16	QC Std #7
	QC Std 8	19:06:04 Thu 25-Aug-16	QC Std #8
	QC Std 13	19:07:06 Thu 25-Aug-16	QC Std #13
	QC Std 5	19:08:15 Thu 25-Aug-16	QC Std #5
	QC Std 6	19:09:45 Thu 25-Aug-16	QC Std #6
WG925233	WG925233-1-T-D2	19:11:08 Thu 25-Aug-16	Sample
WG925233	WG925233-2-T-D2	19:11:59 Thu 25-Aug-16	Sample
WG925233	WG925233-2-T-D10	19:12:50 Thu 25-Aug-16	Sample
WG925233	L1625024-01-T-D2	19:13:41 Thu 25-Aug-16	Sample
WG925233	WG925233-5-T-D10	19:14:32 Thu 25-Aug-16	Sample
WG925233	WG925233-3-T-D2	19:15:23 Thu 25-Aug-16	Sample
WG925233	WG925233-4-T-D2	19:16:14 Thu 25-Aug-16	Sample
WG925233	L1625024-02-T-D2	19:17:05 Thu 25-Aug-16	Sample
WG925233	L1625024-03-T-D2	19:17:56 Thu 25-Aug-16	Sample
WG925233	L1625024-04-T-D2	19:18:47 Thu 25-Aug-16	Sample
	QC Std 5	19:19:41 Thu 25-Aug-16	QC Std #5
	QC Std 6	19:20:34 Thu 25-Aug-16	QC Std #6
	QC Std 5	19:27:22 Thu 25-Aug-16	QC Std #5
	QC Std 6	19:28:37 Thu 25-Aug-16	QC Std #6
WG925233	WG925233-5-T-D10	19:29:47 Thu 25-Aug-16	Sample
WG925233	L1625024-05-T-D2	19:30:51 Thu 25-Aug-16	Sample
WG925233	L1625024-06-T-D2	19:31:42 Thu 25-Aug-16	Sample
WG925154	WG925154-1-T-D2	19:32:33 Thu 25-Aug-16	Sample
WG925154	WG925154-2-T-D2	19:33:27 Thu 25-Aug-16	Sample
WG925154	WG925154-2-T-D10	19:34:18 Thu 25-Aug-16	Sample
WG925154	L1625660-01-T-D2	19:35:09 Thu 25-Aug-16	Sample
WG925154	WG925154-5-T-D10	19:36:01 Thu 25-Aug-16	Sample
WG925154	WG925154-3-T-D2	19:36:52 Thu 25-Aug-16	Sample
WG925154	WG925154-1-T-D2	19:37:56 Thu 25-Aug-16	Sample
WG925154	WG925154-4-T-D2	19:38:58 Thu 25-Aug-16	Sample
	QC Std 5	19:39:51 Thu 25-Aug-16	QC Std #5
	QC Std 6	19:40:46 Thu 25-Aug-16	QC Std #6
WG925564	WG925564-1-T-D2	19:41:48 Thu 25-Aug-16	Sample
WG925564	WG925564-2-T-D2	19:42:39 Thu 25-Aug-16	Sample

WG925564	L1624937-01-T-D2	19:43:30 Thu 25-Aug-16	Sample
WG925564	L1624937-02-T-D2	19:44:21 Thu 25-Aug-16	Sample
WG925564	L1624937-03-T-D2	19:45:12 Thu 25-Aug-16	Sample
WG925564	L1624937-04-T-D2	19:46:03 Thu 25-Aug-16	Sample
WG925564	L1624938-02-T-D2	19:46:54 Thu 25-Aug-16	Sample
WG925564	L1624938-03-T-D2	19:47:45 Thu 25-Aug-16	Sample
WG925564	L1624938-04-T-D2	19:48:36 Thu 25-Aug-16	Sample
WG925564	L1624940-01-T-D2	19:49:27 Thu 25-Aug-16	Sample
	QC Std 5	19:50:20 Thu 25-Aug-16	QC Std #5
	QC Std 6	19:51:13 Thu 25-Aug-16	QC Std #6
WG925564	L1625410-01-T-D2	19:52:21 Thu 25-Aug-16	Sample
WG925564	L1625410-02-T-D2	19:53:13 Thu 25-Aug-16	Sample
WG925564	L1625410-03-T-D2	19:54:04 Thu 25-Aug-16	Sample
WG925564	WG925564-5-T-D10	19:54:55 Thu 25-Aug-16	Sample
WG925564	WG925564-3-T-D2	19:55:46 Thu 25-Aug-16	Sample
WG925564	WG925564-4-T-D2	19:56:37 Thu 25-Aug-16	Sample
WG925564	L1625410-04-T-D2	19:57:29 Thu 25-Aug-16	Sample
WG925564	L1625410-06-T-D2	19:58:20 Thu 25-Aug-16	Sample
WG925564	L1625411-01-T-D2	19:59:11 Thu 25-Aug-16	Sample
WG925564	L1625411-02-T-D2	20:00:02 Thu 25-Aug-16	Sample
	QC Std 5	20:00:55 Thu 25-Aug-16	QC Std #5
	QC Std 6	20:01:48 Thu 25-Aug-16	QC Std #6
WG925564	L1625411-03-T-D2	20:02:52 Thu 25-Aug-16	Sample
WG925502	WG925502-1-T-D2	20:03:44 Thu 25-Aug-16	Sample
WG925502	WG925502-2-T-D2	20:04:36 Thu 25-Aug-16	Sample
WG925502	WG925504-2-T-D10	20:05:27 Thu 25-Aug-16	Sample
WG925502	L1625006-01-T-D2	20:06:18 Thu 25-Aug-16	Sample
WG925502	WG925502-5-T-D10	20:07:09 Thu 25-Aug-16	Sample
WG925502	WG925502-3-T-D2	20:08:00 Thu 25-Aug-16	Sample
WG925502	WG925502-4-T-D2	20:08:51 Thu 25-Aug-16	Sample
WG925502	L1625006-02-T-D2	20:09:42 Thu 25-Aug-16	Sample
WG925502	L1625006-03-T-D2	20:10:33 Thu 25-Aug-16	Sample
	QC Std 5	20:22:58 Thu 25-Aug-16	QC Std #5
	QC Std 6	20:42:22 Thu 25-Aug-16	QC Std #6
	QC Std 6	20:51:26 Thu 25-Aug-16	QC Std #6
WG925955	WG925955-1-T-D2	20:52:32 Thu 25-Aug-16	Sample
WG925955	WG925955-2-T-D2	20:53:23 Thu 25-Aug-16	Sample
WG925955	WG925955-2-T-D10	20:54:14 Thu 25-Aug-16	Sample
WG925955	L1625234-01-T-D2	20:55:06 Thu 25-Aug-16	Sample
WG925955	WG925955-8-T-D10	20:55:57 Thu 25-Aug-16	Sample
WG925955	WG925955-3-T-D2	20:56:48 Thu 25-Aug-16	Sample
WG925955	WG925955-4-T-D2	20:57:39 Thu 25-Aug-16	Sample
WG925955	WG925944-5-T-D2	20:58:30 Thu 25-Aug-16	Sample
WG925955	L1625234-02-T-D2	20:59:21 Thu 25-Aug-16	Sample
	QC Std 5	21:00:15 Thu 25-Aug-16	QC Std #5
	QC Std 6	21:01:08 Thu 25-Aug-16	QC Std #6
WG925955	WG925955-6-T-D2	21:02:52 Thu 25-Aug-16	Sample
WG925955	WG925955-7-T-D2	21:03:43 Thu 25-Aug-16	Sample
	QC Std 5	21:05:35 Thu 25-Aug-16	QC Std #5
	QC Std 6	21:19:18 Thu 25-Aug-16	QC Std #6
	QC Std 9	21:22:47 Thu 25-Aug-16	QC Std #9
WG925502	L1625006-04-T-D2	21:23:51 Thu 25-Aug-16	Sample
WG925502	L1625006-05-T-D2	21:24:42 Thu 25-Aug-16	Sample
WG925502	L1625006-06-T-D2	21:25:33 Thu 25-Aug-16	Sample
WG925502	L1625006-07-T-D2	21:26:24 Thu 25-Aug-16	Sample
WG925502	L1625006-08-T-D2	21:27:15 Thu 25-Aug-16	Sample

WG925502	L1625006-09-T-D2	21:28:06 Thu 25-Aug-16	Sample
WG925502	L1625006-10-T-D2	21:28:57 Thu 25-Aug-16	Sample
WG925502	L1625006-11-T-D2	21:29:48 Thu 25-Aug-16	Sample
WG925502	L1625006-12-T-D2	21:30:39 Thu 25-Aug-16	Sample
	QC Std 5	21:38:37 Thu 25-Aug-16	QC Std #5
	QC Std 6	21:39:34 Thu 25-Aug-16	QC Std #6
	QC Std 5	21:40:30 Thu 25-Aug-16	QC Std #5
	QC Std 6	21:41:29 Thu 25-Aug-16	QC Std #6
WG925502	L1625006-13-T-D2	21:42:37 Thu 25-Aug-16	Sample
WG925502	L1625006-14-T-D2	21:43:28 Thu 25-Aug-16	Sample
WG925502	L1625006-15-T-D2	21:44:19 Thu 25-Aug-16	Sample
WG925502	L1625006-16-T-D2	21:45:10 Thu 25-Aug-16	Sample
WG925502	L1625006-17-T-D2	21:46:01 Thu 25-Aug-16	Sample
WG925502	L1625006-18-T-D2	21:46:52 Thu 25-Aug-16	Sample
WG925502	L1625006-19-T-D2	21:47:43 Thu 25-Aug-16	Sample
WG925502	L1625006-20-T-D2	21:48:34 Thu 25-Aug-16	Sample
WG925965	WG925965-1-T-D2	21:49:27 Thu 25-Aug-16	Sample
WG925965	WG925965-2-T-D2	21:50:18 Thu 25-Aug-16	Sample
	QC Std 5	21:51:12 Thu 25-Aug-16	QC Std #5
	QC Std 6	21:52:04 Thu 25-Aug-16	QC Std #6
WG925965	WG925965-2-T-D10	21:52:59 Thu 25-Aug-16	Sample
WG925965	L1625226-01-T-D2	21:53:50 Thu 25-Aug-16	Sample
WG925965	WG925965-5-T-D10	21:54:41 Thu 25-Aug-16	Sample
WG925965	WG925965-3-T-D2	21:55:32 Thu 25-Aug-16	Sample
WG925965	WG925965-4-T-D2	21:56:23 Thu 25-Aug-16	Sample
WG925965	L1625226-02-T-D2	21:57:15 Thu 25-Aug-16	Sample
WG925965	L1625226-03-T-D2	21:58:06 Thu 25-Aug-16	Sample
WG925965	L1625226-06-T-D2	21:58:57 Thu 25-Aug-16	Sample
WG925965	L1625226-07-T-D2	21:59:48 Thu 25-Aug-16	Sample
WG925965	L1625226-08-T-D2	22:00:39 Thu 25-Aug-16	Sample
	QC Std 5	22:01:33 Thu 25-Aug-16	QC Std #5
	QC Std 6	22:02:26 Thu 25-Aug-16	QC Std #6
	QC Std 9	22:03:19 Thu 25-Aug-16	QC Std #9

Dataset Report

User Name: metals-instrument
Computer Name: A2-00887
Dataset File Path: C:\Elandata\DataSet\wg927333\
Report Date/Time: Wednesday, August 31, 2016 08:54:53

The Dataset

Batch ID	Sample ID	Date and Time	Read Type
	Blank	13:22:14 Tue 30-Aug-16	Blank
	Blank	13:24:47 Tue 30-Aug-16	Blank
	Standard 1	13:26:03 Tue 30-Aug-16	Standard #1
	QC Std 1	13:27:21 Tue 30-Aug-16	QC Std #1
	QC Std 2	13:28:42 Tue 30-Aug-16	QC Std #2
	QC Std 3	13:29:59 Tue 30-Aug-16	QC Std #3
	QC Std 7	13:31:31 Tue 30-Aug-16	QC Std #7
	QC Std 8	13:32:47 Tue 30-Aug-16	QC Std #8
	QC Std 13	13:34:05 Tue 30-Aug-16	QC Std #13
	QC Std 14	13:35:22 Tue 30-Aug-16	QC Std #14
WG925972	WG925972-1-T-D2	13:37:32 Tue 30-Aug-16	Sample
WG925972	WG925972-2-T-D10	13:38:48 Tue 30-Aug-16	Sample
WG925972	WG925972-3-T-D10	13:40:03 Tue 30-Aug-16	Sample
WG925972	WG925972-2-T-D50	13:41:19 Tue 30-Aug-16	Sample
WG925972	WG925972-3-T-D50	13:42:35 Tue 30-Aug-16	Sample
	QC Std 5	13:43:53 Tue 30-Aug-16	QC Std #5
	QC Std 6	13:45:10 Tue 30-Aug-16	QC Std #6
	QC Std 6	13:53:02 Tue 30-Aug-16	QC Std #6
WG925972	L1625082-01-T-D2	13:54:35 Tue 30-Aug-16	Sample
WG925972	L1625082-02-T-D2	13:55:51 Tue 30-Aug-16	Sample
WG925972	L1625082-03-T-D2	13:57:07 Tue 30-Aug-16	Sample
WG925972	WG925972-7-T-D10	13:58:22 Tue 30-Aug-16	Sample
WG925972	WG925972-4-T-D2	13:59:38 Tue 30-Aug-16	Sample
WG925972	WG925972-5-T-D2	14:00:54 Tue 30-Aug-16	Sample
WG925972	WG925972-6-T-D2	14:02:10 Tue 30-Aug-16	Sample
WG925972	L1625082-04-T-D2	14:03:26 Tue 30-Aug-16	Sample
WG925972	L1625082-05-T-D2	14:04:42 Tue 30-Aug-16	Sample
WG925972	L1625082-01-T-D10	14:06:40 Tue 30-Aug-16	Sample
	QC Std 5	14:07:58 Tue 30-Aug-16	QC Std #5
	QC Std 6	14:09:16 Tue 30-Aug-16	QC Std #6
WG925961	WG925961-1-T-D2	14:13:56 Tue 30-Aug-16	Sample
WG925961	WG925961-2-T-D10	14:15:12 Tue 30-Aug-16	Sample
WG925961	WG925961-2-T-D50	14:16:28 Tue 30-Aug-16	Sample
	QC Std 5	14:17:46 Tue 30-Aug-16	QC Std #5
	QC Std 6	14:19:03 Tue 30-Aug-16	QC Std #6
	QC Std 6	14:21:04 Tue 30-Aug-16	QC Std #6
WG925961	L1625234-01-T-D2	14:22:41 Tue 30-Aug-16	Sample
WG925961	WG925961-3-T-D2	14:23:57 Tue 30-Aug-16	Sample
WG925961	WG925961-4-T-D2	14:25:13 Tue 30-Aug-16	Sample
WG925961	WG925961-5-T-D2	14:26:28 Tue 30-Aug-16	Sample
WG925961	L1625234-02-T-D2	14:27:44 Tue 30-Aug-16	Sample
WG925961	WG925961-8-T-D10	14:29:00 Tue 30-Aug-16	Sample
WG925961	WG925961-6-T-D2	14:30:16 Tue 30-Aug-16	Sample
WG925961	WG925961-7-T-D2	14:31:32 Tue 30-Aug-16	Sample

QC Std 5	14:32:51 Tue 30-Aug-16	QC Std #5
QC Std 6	14:34:08 Tue 30-Aug-16	QC Std #6
QC Std 5	14:35:58 Tue 30-Aug-16	QC Std #5
QC Std 6	14:37:50 Tue 30-Aug-16	QC Std #6
QC Std 9	14:41:02 Tue 30-Aug-16	QC Std #9

Dataset Report

User Name: metals-instrument
Computer Name: A2-00887
Dataset File Path: C:\Elandata\DataSet\wg927615\
Report Date/Time: Wednesday, August 31, 2016 09:20:34

The Dataset

Batch ID	Sample ID	Date and Time	Read Type
	Blank	08:58:03 Wed 31-Aug-16	Blank
	Blank	09:01:03 Wed 31-Aug-16	Blank
	Standard 1	09:01:55 Wed 31-Aug-16	Standard #1
	QC Std 1	09:02:48 Wed 31-Aug-16	QC Std #1
	QC Std 2	09:03:41 Wed 31-Aug-16	QC Std #2
	QC Std 3	09:04:34 Wed 31-Aug-16	QC Std #3
	QC Std 7	09:05:27 Wed 31-Aug-16	QC Std #7
	QC Std 8	09:06:19 Wed 31-Aug-16	QC Std #8
	QC Std 13	09:07:12 Wed 31-Aug-16	QC Std #13
	QC Std 14	09:08:07 Wed 31-Aug-16	QC Std #14
WG925961	L1625234-01-T-D10	09:13:06 Wed 31-Aug-16	Sample
WG925961	WG925961-3-T-D10	09:13:58 Wed 31-Aug-16	Sample
WG925961	WG925961-4-T-D10	09:14:49 Wed 31-Aug-16	Sample
WG925961	WG925961-5-T-D10	09:15:40 Wed 31-Aug-16	Sample
	QC Std 5	09:16:33 Wed 31-Aug-16	QC Std #5
	QC Std 6	09:17:26 Wed 31-Aug-16	QC Std #6
	QC Std 9	09:20:08 Wed 31-Aug-16	QC Std #9

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.
Metals Batch Report - Total Metals (Mass Spec) - A2-6020T Batch WG925955 for dept. 5
Sep 12, 2016 16:09

Sample No.	Client No. Sample I.D.	Mat	Due	Sb	As B	Ba Be	Cd Cr	Cu Pb	Ni Se	Ag Sr	Tl Sn	Ti Zn	Fe Mn	Ca Mg	Al K	Na Co	V Mo	Si W	Ha W	Zr
L1625234-01	LDW-BA-PC-ENRMAT-	3	0901							X										
L1625234-02	LDW-BA-PC-ENRMAT-	3	0901							X										
WG925955-1	Laboratory Method	3								X										
WG925955-2	Laboratory Contro	3								X										
WG925955-3	Duplicate Sample	3								X										
WG925955-4	Matrix Spike	3								X										
WG925955-5	Matrix Spike Dupl	3								X										
WG925955-6	Matrix Spike	3								X										
WG925955-7	Matrix Spike Dupl	3								X										

Comments:

WG925955-3	L1625234-01
WG925955-4	L1625234-01
WG925955-5	L1625234-01
WG925955-6	L1625234-02
WG925955-7	L1625234-02

ALPHA ANALYTICAL LABORATORIES, INC.
Metals Batch Report - Total Metals (Mass Spec) - A2-6020T Batch WG925961 for dept. 5
Sep 12, 2016 16:09

Sample No.	Client No. Sample I.D.	Mat	Due	Sb	As B	Ba Be	Cd Cr	Cu Pb	Ni Se	Ag Sr	Tl Sn	Ti Zn	Fe Mn	Ca Mg	Al K	Na Co	V Mo	Si W	Ha W	Zr
L1625234-01	LDW-BA-PC-ENRMAT-	3	0901		X		X	X X				X								
L1625234-02	LDW-BA-PC-ENRMAT-	3	0901		X		X	X X				X								
WG925961-1	Laboratory Method	3			X		X	X X				X								
WG925961-2	Laboratory Contro	3			X		X	X X				X								
WG925961-3	Duplicate Sample	3			X		X	X X				X								
WG925961-4	Matrix Spike	3			X		X	X X				X								
WG925961-5	Matrix Spike Dupl	3			X		X	X X				X								
WG925961-6	Matrix Spike	3			X		X	X X				X								
WG925961-7	Matrix Spike Dupl	3			X		X	X X				X								
WG925961-8	Serial Dilution	3			X		X	X X				X								

Comments:

WG925961-3	L1625234-01
WG925961-4	L1625234-01
WG925961-5	L1625234-01
WG925961-6	L1625234-02
WG925961-7	L1625234-02
WG925961-8	L1625234-02

Tune

Instrument Tuning Report

File Name: default.tun
File Path: C:\Elandata\Tuning\default.tun
Number of Replicates: 5

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
Be	9.012	8.975	2014	2075	0.648
Co	58.933	58.925	14150	2050	0.646
In	114.904	114.925	27757	2031	0.631
Tl	204.975	205.025	49669	1985	0.693
U	238.050	238.075	57709	1963	0.669

Relative Std. Dev.

Mass	Meas. Intens. RSD
3.000	46.506
9.000	1.092
59.000	1.397
115.000	1.234
205.000	1.092
238.000	0.466

Instrument Tuning Report

File Name: default.tun
File Path: C:\Elandata\Tuning\default.tun
Number of Replicates: 5

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
Be	9.012	8.975	2010	2075	0.658
Co	58.933	58.925	14144	2050	0.642
In	114.904	114.925	27759	2031	0.633
Tl	204.975	205.025	49668	1985	0.686
U	238.050	238.025	57701	1963	0.679

Relative Std. Dev.

Mass	Meas. Intens. RSD
3.000	47.226
9.000	1.685
59.000	1.141
115.000	1.606
205.000	1.530
238.000	1.087

Instrument Tuning Report

File Name: default.tun
File Path: C:\Elandata\Tuning\default.tun
Number of Replicates: 5

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
Be	9.012	9.075	2024	2075	0.651
Co	58.933	58.925	14142	2050	0.645
In	114.904	114.875	27751	2031	0.645
Tl	204.975	204.925	49655	1985	0.697
U	238.050	238.075	57707	1963	0.685

Relative Std. Dev.

Mass	Meas. Intens. RSD
3.000	38.565
9.000	0.831
59.000	2.351
115.000	1.643
205.000	1.282
238.000	1.612

Sample Raw Data

Sample/Batch Report

Sample File: C:\Elandata\Sample\2T LOD.sam
Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\
Report Date/Time: Friday, August 26, 2016 09:11:24

A/S Loc.	Sample ID	Standards/Reagents
14	WG925233-1-T-D2	CAL - C071916-M1
15	WG925233-2-T-D2	ICV=I07191616-M1
16	WG925233-2-T-D10	IS=IS041416
17	L1625024-01-T-D2	ICSA=071916ICSA1
18	WG925233-5-T-D10	ICSAB=071916ICASB1
19	WG925233-3-T-D2	ACID=MW062916A
20	WG925233-4-T-D2	ICP-MS 2
21	L1625024-02-T-D2	
22	L1625024-03-T-D2	
23	L1625024-04-T-D2	
24	L1625024-05-T-D2	
25	L1625024-06-T-D2	
26	WG925154-1-T-D2	
27	WG925154-2-T-D2	
28	WG925154-2-T-D10	
29	L1625660-01-T-D2	
30	WG925154-5-T-D10	
31	WG925154-3-T-D2	
32	WG925154-4-T-D2	
34	WG925564-1-T-D2	
35	WG925564-2-T-D2	
36	L1624937-01-T-D2	
37	L1624937-02-T-D2	
38	L1624937-03-T-D2	
39	L1624937-04-T-D2	
40	L1624938-02-T-D2	
41	L1624938-03-T-D2	
42	L1624938-04-T-D2	
43	L1624940-01-T-D2	
44	L1625296-01-T-D2	
45	L1625296-02-T-D2	
46	L1625410-01-T-D2	
47	L1625410-02-T-D2	
48	L1625410-03-T-D2	
49	WG925564-5-T-D10	
50	WG925564-3-T-D2	
51	WG925564-4-T-D2	
52	L1625410-04-T-D2	
53	L1625410-06-T-D2	
54	L1625411-01-T-D2	
55	L1625411-02-T-D2	
56	L1625411-03-T-D2	
58	WG925502-1-T-D2	
59	WG925502-2-T-D2	
60	WG925504-2-T-D10	
61	L1625006-01-T-D2	
62	WG925502-5-T-D10	
63	WG925502-3-T-D2	
64	WG925502-4-T-D2	
65	L1625006-02-T-D2	

66	L1625006-03-T-D2
67	L1625006-04-T-D2
68	L1625006-05-T-D2
69	L1625006-06-T-D2
70	L1625006-07-T-D2
71	L1625006-08-T-D2
72	L1625006-09-T-D2
73	L1625006-10-T-D2
74	L1625006-11-T-D2
75	L1625006-12-T-D2
76	L1625006-13-T-D2
77	L1625006-14-T-D2
78	L1625006-15-T-D2
79	L1625006-16-T-D2
80	L1625006-17-T-D2
81	L1625006-18-T-D2
82	L1625006-19-T-D2
83	L1625006-20-T-D2
85	WG925965-1-T-D2
86	WG925965-2-T-D2
87	WG925965-2-T-D10
88	L1625226-01-T-D2
89	WG925965-5-T-D10
90	WG925965-3-T-D2
91	WG925965-4-T-D2
92	L1625226-02-T-D2
93	L1625226-03-T-D2
94	L1625226-06-T-D2
95	L1625226-07-T-D2
96	L1625226-08-T-D2
98	WG925955-1-T-D2
99	WG925955-2-T-D2
100	WG925955-2-T-D10
101	L1625234-01-T-D2
102	WG925955-8-T-D10
103	WG925955-3-T-D2
104	WG925955-4-T-D2
105	WG925944-5-T-D2
106	L1625234-02-T-D2
107	WG925955-6-T-D2
108	WG925955-7-T-D2

Calibration Report

Analyte	Mass	Curve Type	Slope	Intercept	Corr Coeff
Ag	106.905	Linear Thru Zero	0.045703	0.000	1.000000
In	114.904	Linear Thru Zero	0.000000	0.000	0.000000
Sb	120.904	Linear Thru Zero	0.036449	0.000	1.000000

Method 6020A - Summary Report

Sample ID: Blank

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\Blank.001
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 18:45:28
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	836.288		2.593			ug/L
>	In	115	110964.422		2.048			ug/L
	Sb	121	1240.501		2.056			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115					
	Sb	121					

Method 6020A - Summary Report

Sample ID: Blank

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\Blank.002
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 18:52:45
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	134.584		9.021			ug/L
>	In	115	112343.799		3.363			ug/L
	Sb	121	569.601		5.111			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115					
	Sb	121					

Method 6020A - Summary Report

Sample ID: Blank

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\Blank.003
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 18:55:52
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	57.500		12.104			ug/L
>	In	115	110724.025		1.154			ug/L
	Sb	121	372.924		6.848			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115					
	Sb	121					

Method 6020A - Summary Report

Sample ID: Blank

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\Blank.004
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 18:57:07
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	55.000		6.013			ug/L
>	In	115	112588.089		1.358			ug/L
	Sb	121	343.340		7.230			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115					
	Sb	121					

Method 6020A - Summary Report

Sample ID: Standard 1

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\Standard 1.005
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 18:57:58
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	119.167	0.001	5.174			ug/L
>	In	115	114878.999	114878.999	2.416			ug/L
	Sb	121	418936.102	3.645	0.552	100.00000	2.04	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115					
	Sb	121					

Method 6020A - Summary Report

Sample ID: Standard 2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\Standard 2.006
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 18:58:49
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	515514.045	4.570	0.362	100.00000	2.14	ug/L
>	In	115	112812.306	112812.306	1.778			ug/L
	Sb	121	1051.728	0.006	6.834	0.17196	7.68	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115					
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 1

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 1.007
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:00:00
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	233926.970	2.055	2.628	44.96485	2.30	ug/L
>	In	115	113840.291	113840.291	3.392			ug/L
	Sb	121	198539.241	1.742	0.825	47.80588	3.88	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	89.930				
>	In	115		101.112			
	Sb	121	95.612				

Method 6020A - Summary Report

Sample ID: QC Std 1

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 1.008
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:01:44
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	245761.256	2.205	2.311	48.24738	0.91	ug/L
>	In	115	111433.714	111433.714	2.445			ug/L
	Sb	121	215060.906	1.927	0.991	52.87834	1.49	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	96.495				
>	In	115		98.975			
	Sb	121	105.757				

Method 6020A - Summary Report

Sample ID: QC Std 2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 2.009
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:02:46
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	207.086	0.001	10.496	0.02905	13.14	ug/L
>	In	115	113965.786	113965.786	1.409			ug/L
	Sb	121	892.127	0.005	7.121	0.13127	13.84	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		101.224			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 3

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 3.010
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:03:48
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	999.638	0.008	5.423	0.18534	4.29	ug/L
>	In	115	111535.646	111535.646	1.412			ug/L
	Sb	121	2366.559	0.018	5.165	0.49828	4.64	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	74.136				
>	In	115		99.065			
	Sb	121	99.657				

Method 6020A - Summary Report

Sample ID: QC Std 7

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 7.011
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:04:56
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	1198.412	0.011	5.699	0.24125	8.61	ug/L
>	In	115	104226.494	104226.494	2.577			ug/L
	Sb	121	830.871	0.005	3.284	0.13518	7.72	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		92.573			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 8

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 8.012
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:06:04
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	201990.877	1.895	2.171	41.47185	1.92	ug/L
>	In	115	106565.099	106565.099	2.745			ug/L
	Sb	121	381132.224	3.576	1.435	98.10742	3.87	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	82.944				
>	In	115		94.650			
	Sb	121	98.107				

Method 6020A - Summary Report

Sample ID: QC Std 13

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 13.013
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:07:06
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	132.918	0.001	14.998	0.01563	23.22	ug/L
>	In	115	110415.028	110415.028	4.027			ug/L
	Sb	121	600.853	0.002	3.318	0.06588	15.12	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		98.070			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 5.014
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:08:15
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	250616.409	2.257	0.839	49.37724	2.56	ug/L
>	In	115	111070.991	111070.991	2.269			ug/L
	Sb	121	215384.506	1.937	2.231	53.13106	2.63	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	98.754				
>	In	115		98.653			
	Sb	121	106.262				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 6.015
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:09:45
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	149.585	0.001	10.449	0.01836	19.16	ug/L
>	In	115	112852.915	112852.915	2.892			ug/L
	Sb	121	766.699	0.004	3.487	0.10290	10.19	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		100.235			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925233-1-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925233-1-T-D2.016
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:11:08
Batch ID: WG925233
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	46.250	-0.000	26.619	-0.00091	274.39	ug/L
>	In	115	103304.415	103304.415	2.568			ug/L
	Sb	121	216.669	-0.001	3.841	-0.02611	7.66	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		91.754			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925233-2-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925233-2-T-D2.017
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:11:59
Batch ID: WG925233
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	2521280.929	25.644	2.526	561.08830	1.92	ug/L
>	In	115	98311.235	98311.235	0.735			ug/L
	Sb	121	7401817.174	75.286	2.171	2065.52190	1.98	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		87.319			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925233-2-T-D10

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925233-2-T-D10.018
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:12:50
Batch ID: WG925233
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	873816.162	9.021	1.774	197.38817	5.62	ug/L
>	In	115	96994.587	96994.587	3.812			ug/L
	Sb	121	2785004.170	28.710	3.805	787.68565	0.64	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		86.150			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625024-01-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625024-01-T-D2.019
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:13:41
Batch ID: WG925233
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	5013.049	0.049	2.188	1.07138	4.08	ug/L
>	In	115	101444.892	101444.892	3.324			ug/L
	Sb	121	138424.552	1.362	2.115	37.36382	1.44	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		90.103			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925233-5-T-D10

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925233-5-T-D10.020
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:14:32
Batch ID: WG925233
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	274.589	0.001	83.014	0.02122	110.47	ug/L
>	In	115	180029.039	180029.039	11.107			ug/L
	Sb	121	15940.865	0.083	61.974	2.26547	53.67	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		159.901			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925233-3-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925233-3-T-D2.021
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:15:23
Batch ID: WG925233
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	10708.388	0.105	2.137	2.29470	4.60	ug/L
>	In	115	101735.734	101735.734	3.775			ug/L
	Sb	121	226370.715	2.222	4.733	60.96342	2.79	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		90.361			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925233-4-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925233-4-T-D2.022
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:16:14
Batch ID: WG925233
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	92661.561	0.858	3.878	18.77818	5.21	ug/L
>	In	115	107956.430	107956.430	1.339			ug/L
	Sb	121	368729.067	3.412	3.478	93.60852	2.32	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		95.886			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625024-02-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625024-02-T-D2.023
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:17:05
Batch ID: WG925233
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	47509.822	0.255	4.518	5.58250	3.98	ug/L
>	In	115	185839.333	185839.333	1.330			ug/L
	Sb	121	9885598.857	53.178	5.603	1458.96954	4.66	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		165.061			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625024-03-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625024-03-T-D2.024
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:17:56
Batch ID: WG925233
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	37961.197	0.263	2.005	5.76120	2.25	ug/L
>	In	115	143930.902	143930.902	2.137			ug/L
	Sb	121	1811613.747	12.591	4.197	345.43624	5.45	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		127.838			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625024-04-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625024-04-T-D2.025
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:18:47
Batch ID: WG925233
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	224740.804	0.298	4.639	6.52348	2.60	ug/L
>	In	115	752861.467	752861.467	5.122			ug/L
	Sb	121	4548046.904	6.048	2.005	165.93037	5.24	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		668.687			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 5.026
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:19:41
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	256013.355	2.236	2.526	48.91602	1.21	ug/L
>	In	115	114484.026	114484.026	1.810			ug/L
	Sb	121	232221.895	2.026	2.068	55.59104	3.73	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	97.832				
>	In	115		101.684			
	Sb	121	111.182				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 6.027
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:20:34
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	103.751	0.000	7.329	0.00957	11.43	ug/L
>	In	115	112050.355	112050.355	3.881			ug/L
	Sb	121	5983.237	0.050	12.020	1.37826	8.96	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		99.522			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 5.028
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:27:22
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	258193.994	2.288	1.418	50.07144	1.24	ug/L
>	In	115	112800.718	112800.718	0.454			ug/L
	Sb	121	213763.626	1.892	2.811	51.90664	2.59	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	100.143				
>	In	115		100.189			
	Sb	121	103.813				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 6.029
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:28:37
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	107.084	0.000	8.761	0.00961	25.23	ug/L
>	In	115	115756.722	115756.722	3.503			ug/L
	Sb	121	1343.016	0.009	6.172	0.23455	5.51	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		102.814			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925233-5-T-D10

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925233-5-T-D10.030
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:29:47
Batch ID: WG925233
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	943.799	0.009	0.869	0.20678	1.93	ug/L
>	In	115	94980.854	94980.854	2.213			ug/L
	Sb	121	25916.473	0.270	0.535	7.40541	2.73	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		84.361			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625024-05-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625024-05-T-D2.031
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:30:51
Batch ID: WG925233
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	48191.729	0.294	4.427	6.44104	1.58	ug/L
>	In	115	163426.343	163426.343	3.938			ug/L
	Sb	121	2383438.637	14.604	2.310	400.66965	6.11	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		145.154			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625024-06-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625024-06-T-D2.032
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:31:42
Batch ID: WG925233
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	29443.031	0.212	1.939	4.63921	1.61	ug/L
>	In	115	138585.901	138585.901	3.159			ug/L
	Sb	121	1904887.278	13.752	0.329	377.29739	3.44	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		123.091			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925154-1-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925154-1-T-D2.033
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:32:33
Batch ID: WG925154
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	48.750	-0.000	9.245	-0.00011	813.19	ug/L
>	In	115	100802.406	100802.406	0.733			ug/L
	Sb	121	6958.505	0.066	7.430	1.81096	8.48	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		89.532			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925154-2-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925154-2-T-D2.034
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:33:27
Batch ID: WG925154
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	2692517.580	26.624	3.390	582.53124	2.07	ug/L
>	In	115	101186.476	101186.476	4.902			ug/L
	Sb	121	7107015.910	70.332	2.525	1929.61025	4.98	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		89.873			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925154-2-T-D10

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925154-2-T-D10.035
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:34:18
Batch ID: WG925154
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	548288.614	5.904	4.087	129.17445	2.27	ug/L
>	In	115	92899.788	92899.788	4.779			ug/L
	Sb	121	1426659.566	15.372	1.800	421.72812	3.83	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		82.513			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625660-01-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625660-01-T-D2.036
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:35:09
Batch ID: WG925154
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	1338.432	0.012	4.801	0.26065	2.76	ug/L
>	In	115	107898.744	107898.744	2.644			ug/L
	Sb	121	29643.265	0.272	2.074	7.45981	4.64	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		95.835			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925154-5-T-D10

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925154-5-T-D10.037
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:36:01
Batch ID: WG925154
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	282.921	0.002	4.867	0.05399	6.81	ug/L
>	In	115	95739.697	95739.697	1.275			ug/L
	Sb	121	7719.947	0.078	4.216	2.12890	4.71	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		85.035			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925154-3-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925154-3-T-D2.038
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:36:52
Batch ID: WG925154
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	1212.581	0.011	2.951	0.23689	4.34	ug/L
>	In	115	107201.456	107201.456	1.334			ug/L
	Sb	121	22395.909	0.206	3.500	5.64772	3.04	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		95.216			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925154-1-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925154-1-T-D2.039
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:37:56
Batch ID: WG925154
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	48.750	0.000	4.441	0.00025	194.13	ug/L
>	In	115	97539.836	97539.836	2.257			ug/L
	Sb	121	1930.206	0.017	10.117	0.45932	12.00	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		86.634			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925154-4-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925154-4-T-D2.040
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:38:58
Batch ID: WG925154
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	91158.232	0.833	2.151	18.22832	1.56	ug/L
>	In	115	109372.139	109372.139	2.495			ug/L
	Sb	121	98349.795	0.896	2.637	24.58756	1.12	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		97.144			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 5.041
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:39:51
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	252315.416	2.220	3.198	48.56895	1.97	ug/L
>	In	115	113653.341	113653.341	2.985			ug/L
	Sb	121	211558.712	1.860	1.560	51.02624	4.16	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	97.138				
>	In	115		100.946			
	Sb	121	102.052				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 6.042
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:40:46
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	97.084	0.000	11.963	0.00843	26.03	ug/L
>	In	115	111125.049	111125.049	4.543			ug/L
	Sb	121	1601.392	0.011	9.977	0.31185	11.93	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		98.701			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925564-1-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925564-1-T-D2.043
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:41:48
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	26.250	-0.000	34.339	-0.00564	30.29	ug/L
>	In	115	113718.447	113718.447	0.491			ug/L
	Sb	121	939.632	0.005	11.044	0.14298	16.98	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		101.004			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925564-2-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925564-2-T-D2.044
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:42:39
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	86361.003	0.775	4.936	16.96114	2.87	ug/L
>	In	115	111295.028	111295.028	2.101			ug/L
	Sb	121	80095.883	0.717	0.327	19.66762	2.41	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		98.852			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1624937-01-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1624937-01-T-D2.045
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:43:30
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	3869.158	0.031	4.245	0.68730	4.35	ug/L
>	In	115	121291.167	121291.167	0.429			ug/L
	Sb	121	3604.465	0.027	1.458	0.73166	1.69	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		107.730			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1624937-02-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1624937-02-T-D2.046
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:44:21
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	19038.692	0.151	4.529	3.30170	2.41	ug/L
>	In	115	125719.151	125719.151	2.143			ug/L
	Sb	121	1293.843	0.007	9.289	0.19844	10.70	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		111.663			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1624937-03-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1624937-03-T-D2.047
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:45:12
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	22924.305	0.187	3.284	4.09511	2.19	ug/L
>	In	115	122182.208	122182.208	3.115			ug/L
	Sb	121	1467.619	0.009	5.885	0.24574	4.68	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		108.521			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1624937-04-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1624937-04-T-D2.048
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:46:03
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	746.697	0.005	1.844	0.11390	7.16	ug/L
>	In	115	131405.602	131405.602	4.661			ug/L
	Sb	121	1130.070	0.006	3.938	0.15233	1.22	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		116.714			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1624938-02-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1624938-02-T-D2.049
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:46:54
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	26743.066	0.215	3.823	4.70794	4.34	ug/L
>	In	115	124039.392	124039.392	1.871			ug/L
	Sb	121	787.951	0.003	1.589	0.09069	6.59	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		110.171			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1624938-03-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1624938-03-T-D2.050
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:47:45
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	11210.244	0.091	2.719	1.99375	3.10	ug/L
>	In	115	122395.832	122395.832	2.023			ug/L
	Sb	121	1224.666	0.007	5.410	0.19074	5.28	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		108.711			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1624938-04-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1624938-04-T-D2.051
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:48:36
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	4990.120	0.041	1.888	0.89278	4.69	ug/L
>	In	115	120953.836	120953.836	2.747			ug/L
	Sb	121	615.854	0.002	9.687	0.05614	26.46	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		107.430			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1624940-01-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1624940-01-T-D2.052
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:49:27
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	848.790	0.006	6.780	0.12275	7.50	ug/L
>	In	115	139188.435	139188.435	0.127			ug/L
	Sb	121	1052.561	0.005	3.081	0.12381	5.30	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		123.626			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 5.053
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:50:20
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	246904.269	2.206	0.461	48.26099	3.44	ug/L
>	In	115	111995.879	111995.879	3.173			ug/L
	Sb	121	216102.442	1.928	2.150	52.88672	3.51	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	96.522				
>	In	115		99.474			
	Sb	121	105.773				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 6.054
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:51:13
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	94.167	0.000	19.704	0.00757	50.60	ug/L
>	In	115	113054.673	113054.673	2.366			ug/L
	Sb	121	867.541	0.005	5.141	0.12690	8.45	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		100.414			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625410-01-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625410-01-T-D2.055
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:52:21
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	6323.033	0.051	2.787	1.11893	5.47	ug/L
>	In	115	122630.099	122630.099	4.141			ug/L
	Sb	121	907.129	0.004	7.003	0.11949	13.39	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		108.919			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625410-02-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625410-02-T-D2.056
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:53:13
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	6304.688	0.049	4.546	1.06865	3.61	ug/L
>	In	115	127788.256	127788.256	1.856			ug/L
	Sb	121	1247.586	0.007	2.012	0.18425	4.13	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		113.501			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625410-03-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625410-03-T-D2.057
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:54:04
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	1313.012	0.010	2.069	0.22200	5.00	ug/L
>	In	115	123611.359	123611.359	4.089			ug/L
	Sb	121	900.045	0.004	11.643	0.11584	15.21	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		109.791			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925564-5-T-D10

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925564-5-T-D10.058
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:54:55
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	266.671	0.002	8.337	0.05104	10.39	ug/L
>	In	115	94547.092	94547.092	1.560			ug/L
	Sb	121	341.673	0.001	10.953	0.01538	61.09	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		83.976			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925564-3-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925564-3-T-D2.059
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:55:46
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	1672.654	0.013	3.163	0.27351	5.94	ug/L
>	In	115	128912.651	128912.651	2.926			ug/L
	Sb	121	975.469	0.005	3.454	0.12393	2.84	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		114.499			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925564-4-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925564-4-T-D2.060
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:56:37
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	76496.162	0.609	3.450	13.32793	3.24	ug/L
>	In	115	125496.888	125496.888	2.277			ug/L
	Sb	121	64021.410	0.507	2.641	13.91215	1.10	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		111.466			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625410-04-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625410-04-T-D2.061
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:57:29
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	1720.163	0.013	1.484	0.27825	3.36	ug/L
>	In	115	130311.885	130311.885	1.932			ug/L
	Sb	121	942.966	0.004	2.531	0.11498	7.69	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		115.742			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625410-06-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625410-06-T-D2.062
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:58:20
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	617.521	0.004	5.367	0.09290	7.04	ug/L
>	In	115	130497.474	130497.474	2.304			ug/L
	Sb	121	770.866	0.003	4.986	0.07846	11.42	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		115.907			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625411-01-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625411-01-T-D2.063
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 19:59:11
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	6834.236	0.055	3.352	1.20983	3.44	ug/L
>	In	115	122527.727	122527.727	1.478			ug/L
	Sb	121	715.445	0.003	0.662	0.07657	4.41	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		108.828			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625411-02-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625411-02-T-D2.064
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:00:02
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	1404.275	0.010	5.446	0.22897	4.24	ug/L
>	In	115	128163.255	128163.255	1.808			ug/L
	Sb	121	1099.650	0.006	6.897	0.15161	8.42	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		113.834			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 5.065
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:00:55
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	253395.284	2.245	2.177	49.12348	3.35	ug/L
>	In	115	112872.128	112872.128	1.365			ug/L
	Sb	121	215993.855	1.911	3.298	52.42124	3.32	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	98.247				
>	In	115		100.252			
	Sb	121	104.842				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 6.066
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:01:48
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	59.584	0.000	13.324	0.00079	150.44	ug/L
>	In	115	113320.615	113320.615	2.949			ug/L
	Sb	121	749.614	0.004	2.509	0.09795	7.96	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		100.651			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625411-03-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625411-03-T-D2.067
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:02:52
Batch ID: WG925564
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	12521.537	0.098	2.091	2.14241	3.67	ug/L
>	In	115	127319.531	127319.531	2.883			ug/L
	Sb	121	531.266	0.001	9.767	0.03109	46.58	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		113.084			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925502-1-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925502-1-T-D2.068
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:03:44
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	47.500	0.000	9.488	0.00001	10483.24	ug/L
>	In	115	97136.546	97136.546	2.483			ug/L
	Sb	121	258.337	-0.000	3.111	-0.01066	30.14	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		86.276			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925502-2-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925502-2-T-D2.069
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:04:36
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	2372085.044	26.313	2.713	575.73698	3.07	ug/L
>	In	115	90163.555	90163.555	1.881			ug/L
	Sb	121	6741189.414	74.789	1.661	2051.89635	3.14	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		80.083			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925504-2-T-D10

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925504-2-T-D10.070
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:05:27
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	486983.157	5.261	3.057	115.10915	1.58	ug/L
>	In	115	92546.389	92546.389	1.691			ug/L
	Sb	121	1378103.676	14.891	2.531	408.53417	2.99	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		82.199			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-01-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-01-T-D2.071
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:06:18
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	83480.057	0.892	2.711	19.51795	3.77	ug/L
>	In	115	93643.363	93643.363	5.323			ug/L
	Sb	121	2971982.835	31.790	3.516	872.18665	6.14	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		83.173			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925502-5-T-D10

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925502-5-T-D10.072
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:07:09
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	19079.169	0.204	1.418	4.46117	2.36	ug/L
>	In	115	93365.938	93365.938	0.951			ug/L
	Sb	121	596378.263	6.385	2.954	175.16523	2.89	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		82.927			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925502-3-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925502-3-T-D2.073
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:08:00
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	76722.572	0.840	2.930	18.38161	2.25	ug/L
>	In	115	91266.362	91266.362	1.228			ug/L
	Sb	121	3557845.587	38.986	0.590	1069.60011	1.80	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		81.062			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925502-4-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925502-4-T-D2.074
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:08:51
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	163947.329	1.737	1.152	38.01041	4.09	ug/L
>	In	115	94468.838	94468.838	4.822			ug/L
	Sb	121	3477900.861	36.855	1.740	1011.14938	3.89	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		83.907			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-02-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-02-T-D2.075
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:09:42
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	369812.042	4.933	3.160	107.94198	3.64	ug/L
>	In	115	74974.292	74974.292	2.136			ug/L
	Sb	121	5422717.102	72.341	1.495	1984.70973	2.06	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		66.592			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-03-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-03-T-D2.076
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:10:33
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	128534.400	0.139	0.772	3.03901	3.11	ug/L
>	In	115	922667.969	922667.969	2.635			ug/L
	Sb	121	12319679.669	13.359	1.662	366.52339	4.35	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		819.508			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 5.077
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:22:58
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	236989.345	2.188	2.963	47.86642	1.79	ug/L
>	In	115	108322.103	108322.103	3.162			ug/L
	Sb	121	209474.295	1.931	3.350	52.96985	0.40	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	95.733				
>	In	115		96.211			
	Sb	121	105.940				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 6.078
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:42:22
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	23.333	-0.000	26.964	-0.00546	28.58	ug/L
>	In	115	98272.884	98272.884	2.972			ug/L
	Sb	121	3297.265	0.031	1.527	0.83714	1.79	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		87.285			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 6.079
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:51:26
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	6.250	-0.000	20.000	-0.00940	2.88	ug/L
>	In	115	106478.985	106478.985	1.178			ug/L
	Sb	121	1185.911	0.008	2.670	0.22199	5.26	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		94.574			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925955-1-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925955-1-T-D2.080
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:52:32
Batch ID: WG925955
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	90.834	0.000	9.666	0.00727	27.27	ug/L
>	In	115	110811.593	110811.593	1.712			ug/L
	Sb	121	1199.663	0.008	1.962	0.21338	2.45	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		98.422			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925955-2-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925955-2-T-D2.081
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:53:23
Batch ID: WG925955
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	2430868.917	22.763	0.990	498.06888	2.52	ug/L
>	In	115	106842.996	106842.996	3.238			ug/L
	Sb	121	6571393.370	61.564	1.782	1689.04779	4.81	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		94.897			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925955-2-T-D10

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925955-2-T-D10.082
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:54:14
Batch ID: WG925955
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	505856.764	5.413	1.829	118.43180	1.76	ug/L
>	In	115	93460.578	93460.578	2.037			ug/L
	Sb	121	1371376.655	14.666	4.714	402.35835	2.84	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		83.011			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625234-01-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625234-01-T-D2.083
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:55:06
Batch ID: WG925955
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	3429.398	0.033	5.827	0.73210	5.10	ug/L
>	In	115	100995.359	100995.359	1.025			ug/L
	Sb	121	19061.644	0.186	3.322	5.09551	4.08	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		89.703			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925955-8-T-D10

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925955-8-T-D10.084
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:55:57
Batch ID: WG925955
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	667.108	0.007	1.098	0.14748	3.79	ug/L
>	In	115	92355.075	92355.075	3.373			ug/L
	Sb	121	4646.190	0.047	6.046	1.29826	8.46	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		82.029			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925955-3-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925955-3-T-D2.085
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:56:48
Batch ID: WG925955
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	3257.667	0.032	1.693	0.70283	2.97	ug/L
>	In	115	99951.504	99951.504	3.255			ug/L
	Sb	121	10899.452	0.106	3.377	2.90866	2.63	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		88.776			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925955-4-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925955-4-T-D2.086
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:57:39
Batch ID: WG925955
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	92154.919	0.886	4.429	19.37552	1.85	ug/L
>	In	115	103991.921	103991.921	3.240			ug/L
	Sb	121	86254.144	0.827	2.874	22.67694	1.94	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		92.365			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925944-5-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925944-5-T-D2.087
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:58:30
Batch ID: WG925955
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	88458.519	0.844	2.870	18.46103	0.63	ug/L
>	In	115	104774.055	104774.055	2.378			ug/L
	Sb	121	81676.147	0.777	1.431	21.31180	2.82	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		93.060			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625234-02-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625234-02-T-D2.088
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 20:59:21
Batch ID: WG925955
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	1823.933	0.017	2.732	0.37130	1.31	ug/L
>	In	115	104464.655	104464.655	1.721			ug/L
	Sb	121	7313.776	0.067	2.763	1.83734	2.87	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		92.785			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 5.089
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:00:15
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	247075.251	2.261	5.663	49.46665	1.35	ug/L
>	In	115	109223.911	109223.911	4.391			ug/L
	Sb	121	207388.144	1.898	1.865	52.05949	3.64	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	98.933				
>	In	115		97.012			
	Sb	121	104.119				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 6.090
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:01:08
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	22.917	-0.000	27.454	-0.00597	23.26	ug/L
>	In	115	106971.672	106971.672	3.854			ug/L
	Sb	121	1732.249	0.013	4.378	0.36090	6.04	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		95.012			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925955-6-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925955-6-T-D2.091
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:02:52
Batch ID: WG925955
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	92235.848	0.873	3.122	19.09570	0.98	ug/L
>	In	115	105629.492	105629.492	3.113			ug/L
	Sb	121	83746.083	0.790	1.096	21.68040	2.90	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		93.819			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925955-7-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925955-7-T-D2.092
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:03:43
Batch ID: WG925955
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	91498.778	0.866	2.605	18.94692	4.47	ug/L
>	In	115	105665.261	105665.261	2.052			ug/L
	Sb	121	83237.944	0.785	3.322	21.52647	1.86	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		93.851			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 5.093
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:05:35
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	247824.972	2.282	1.300	49.93524	1.16	ug/L
>	In	115	108574.277	108574.277	1.547			ug/L
	Sb	121	209269.284	1.925	2.977	52.80255	3.16	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	99.870				
>	In	115		96.435			
	Sb	121	105.605				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 6.094
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:19:18
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	7.500	-0.000	33.333	-0.00920	5.29	ug/L
>	In	115	110138.065	110138.065	0.642			ug/L
	Sb	121	443.761	0.001	4.150	0.02686	14.76	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		97.824			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 9

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 9.095
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:22:47
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	1202.163	0.010	3.971	0.21924	2.97	ug/L
>	In	115	114396.595	114396.595	2.726			ug/L
	Sb	121	2494.509	0.019	2.677	0.51515	6.17	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	87.696				
>	In	115		101.606			
	Sb	121	103.030				

Method 6020A - Summary Report

Sample ID: L1625006-04-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-04-T-D2.096
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:23:51
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	139820.348	0.814	2.394	17.81431	6.52	ug/L
>	In	115	171939.809	171939.809	4.215			ug/L
	Sb	121	33706715.379	196.418	4.142	5388.86851	7.66	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		152.716			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-05-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-05-T-D2.097
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:24:42
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	74686.938	0.116	2.682	2.54051	0.35	ug/L
>	In	115	640548.748	640548.748	2.644			ug/L
	Sb	121	1119515.100	1.746	1.527	47.89002	3.12	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		568.931			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-06-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-06-T-D2.098
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:25:33
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	55080.702	0.115	3.993	2.52591	4.89	ug/L
>	In	115	475254.856	475254.856	0.909			ug/L
	Sb	121	461738.643	0.969	0.050	26.57326	0.95	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		422.118			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-07-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-07-T-D2.099
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:26:24
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	47662.565	0.308	1.907	6.72913	4.21	ug/L
>	In	115	154882.114	154882.114	3.826			ug/L
	Sb	121	4969186.480	32.126	3.122	881.38808	6.16	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		137.565			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-08-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-08-T-D2.100
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:27:15
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	106329.441	0.239	3.115	5.22340	1.01	ug/L
>	In	115	444496.451	444496.451	2.969			ug/L
	Sb	121	10290751.523	23.141	4.538	634.89476	1.63	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		394.799			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-09-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-09-T-D2.101
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:28:06
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	137345.706	0.072	2.868	1.56639	2.74	ug/L
>	In	115	1905471.450	1905471.450	0.240			ug/L
	Sb	121	3549958.983	1.860	4.291	51.02736	4.11	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		1692.427			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-10-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-10-T-D2.102
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:28:57
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	93247.473	0.624	3.712	13.65369	2.70	ug/L
>	In	115	149426.983	149426.983	5.417			ug/L
	Sb	121	14685823.746	98.595	3.561	2705.01664	8.97	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		132.720			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-11-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-11-T-D2.103
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:29:48
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	74072.286	0.343	1.949	7.49518	1.70	ug/L
>	In	115	215923.587	215923.587	0.643			ug/L
	Sb	121	11946236.241	55.326	2.621	1517.91369	2.86	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		191.782			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-12-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-12-T-D2.104
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:30:39
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	111155.913	0.210	4.494	4.59540	2.58	ug/L
>	In	115	527915.130	527915.130	2.795			ug/L
	Sb	121	22552105.938	42.739	0.549	1172.56841	2.91	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		468.891			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 5.105
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:38:37
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	256077.452	2.343	3.041	51.26712	3.71	ug/L
>	In	115	109407.397	109407.397	5.735			ug/L
	Sb	121	253221.645	2.316	0.623	63.54864	5.49	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	102.534				
>	In	115		97.175			
	Sb	121	127.097				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 6.106
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:39:34
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	51.250	-0.000	29.672	-0.00059	513.65	ug/L
>	In	115	111195.198	111195.198	2.173			ug/L
	Sb	121	8841.804	0.077	4.822	2.09952	6.68	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		98.763			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 5.107
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:40:30
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	244301.451	2.252	3.920	49.27358	4.83	ug/L
>	In	115	108503.360	108503.360	1.889			ug/L
	Sb	121	244774.065	2.253	2.046	61.80874	0.78	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	98.547				
>	In	115		96.372			
	Sb	121	123.617				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 6.108
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:41:29
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	48.750	-0.000	13.324	-0.00096	118.50	ug/L
>	In	115	109504.346	109504.346	1.871			ug/L
	Sb	121	6822.559	0.059	1.430	1.62592	1.71	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		97.261			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-13-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-13-T-D2.109
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:42:37
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	59286.541	0.509	2.805	11.12757	2.93	ug/L
>	In	115	116497.404	116497.404	2.832			ug/L
	Sb	121	16347312.460	140.375	1.656	3851.29172	2.54	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		103.472			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-14-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-14-T-D2.110
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:43:28
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	29668.755	0.212	1.136	4.63280	1.70	ug/L
>	In	115	139830.664	139830.664	2.217			ug/L
	Sb	121	1081480.720	7.732	2.357	212.11924	1.39	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		124.197			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-15-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-15-T-D2.111
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:44:19
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	83472.801	0.169	1.762	3.70159	3.50	ug/L
>	In	115	492236.005	492236.005	2.440			ug/L
	Sb	121	3327699.212	6.760	0.580	185.47080	2.68	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		437.201			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-16-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-16-T-D2.112
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:45:10
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	67791.864	0.038	1.489	0.83929	5.48	ug/L
>	In	115	1747808.664	1747808.664	4.346			ug/L
	Sb	121	669428.806	0.380	2.374	10.43095	2.36	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		1552.392			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-17-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-17-T-D2.113
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:46:01
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	66188.888	0.410	1.925	8.96909	2.99	ug/L
>	In	115	161313.489	161313.489	1.223			ug/L
	Sb	121	6649857.450	41.230	2.166	1131.17353	3.23	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		143.278			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-18-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-18-T-D2.114
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:46:52
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	84948.849	0.058	1.349	1.27404	1.62	ug/L
>	In	115	1446900.913	1446900.913	1.440			ug/L
	Sb	121	14364289.438	9.928	2.152	272.37024	3.40	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		1285.128			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-19-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-19-T-D2.115
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:47:43
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	93784.658	0.069	1.264	1.50765	1.15	ug/L
>	In	115	1351704.521	1351704.521	2.193			ug/L
	Sb	121	1415365.016	1.045	2.678	28.66018	4.37	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		1200.575			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625006-20-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625006-20-T-D2.116
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:48:34
Batch ID: WG925502
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	91258.151	0.081	3.225	1.77672	2.44	ug/L
>	In	115	1117038.873	1117038.873	1.482			ug/L
	Sb	121	2474139.673	2.212	2.771	60.68883	2.82	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		992.147			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925965-1-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925965-1-T-D2.117
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:49:27
Batch ID: WG925965
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	242.087	0.002	7.904	0.03738	9.21	ug/L
>	In	115	110199.219	110199.219	3.724			ug/L
	Sb	121	186593.774	1.692	3.609	46.42435	5.79	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		97.878			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925965-2-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925965-2-T-D2.118
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:50:18
Batch ID: WG925965
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	2532321.711	22.912	1.382	501.31587	2.31	ug/L
>	In	115	110545.767	110545.767	1.702			ug/L
	Sb	121	6941758.479	62.797	1.902	1722.88969	1.81	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		98.186			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 5.119
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:51:12
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	250827.874	2.318	4.155	50.72145	2.72	ug/L
>	In	115	108156.502	108156.502	1.939			ug/L
	Sb	121	326059.280	3.013	1.490	82.66249	3.40	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	101.443				
>	In	115		96.064			
	Sb	121	165.325				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 6.120
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:52:04
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	72.917	0.000	9.748	0.00430	49.26	ug/L
>	In	115	106945.714	106945.714	4.699			ug/L
	Sb	121	20409.569	0.188	3.397	5.15872	5.29	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		94.988			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925965-2-T-D10

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925965-2-T-D10.121
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:52:59
Batch ID: WG925965
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	501684.575	5.409	1.068	118.34933	3.56	ug/L
>	In	115	92826.481	92826.481	3.981			ug/L
	Sb	121	1344389.880	14.494	0.279	397.65212	3.70	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		82.448			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625226-01-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625226-01-T-D2.122
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:53:50
Batch ID: WG925965
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	3767.448	0.034	4.496	0.75254	5.74	ug/L
>	In	115	108058.957	108058.957	1.876			ug/L
	Sb	121	145801.756	1.347	1.591	36.94865	3.20	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		95.977			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925965-5-T-D10

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925965-5-T-D10.123
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:54:41
Batch ID: WG925965
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	832.955	0.008	0.568	0.18501	0.72	ug/L
>	In	115	93132.389	93132.389	1.222			ug/L
	Sb	121	32924.536	0.351	2.398	9.61732	3.15	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		82.720			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925965-3-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925965-3-T-D2.124
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:55:32
Batch ID: WG925965
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	23746.054	0.152	6.275	3.32767	2.97	ug/L
>	In	115	155658.022	155658.022	5.874			ug/L
	Sb	121	206736.679	1.328	1.455	36.44299	6.30	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		138.254			
	Sb	121					

Method 6020A - Summary Report

Sample ID: WG925965-4-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\WG925965-4-T-D2.125
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:56:23
Batch ID: WG925965
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
⌈	Ag	107	91715.738	0.849	3.686	18.57945	2.37	ug/L
| >	In	115	107930.306	107930.306	1.746			ug/L
⌊	Sb	121	178687.959	1.653	1.272	45.35255	2.81	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Ag	107					
| >	In	115		95.863			
⌊	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625226-02-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625226-02-T-D2.126
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:57:15
Batch ID: WG925965
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	16246.172	0.145	1.332	3.17598	2.23	ug/L
>	In	115	111564.042	111564.042	0.891			ug/L
	Sb	121	160057.606	1.431	3.113	39.27256	2.29	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		99.090			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625226-03-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625226-03-T-D2.127
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:58:06
Batch ID: WG925965
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	7801.263	0.066	1.943	1.44135	2.07	ug/L
>	In	115	117618.569	117618.569	4.002			ug/L
	Sb	121	212343.988	1.805	1.028	49.51106	4.83	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		104.468			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625226-06-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625226-06-T-D2.128
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:58:57
Batch ID: WG925965
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	4233.903	0.037	1.989	0.81546	1.88	ug/L
>	In	115	112139.088	112139.088	1.432			ug/L
	Sb	121	162046.043	1.442	2.941	39.55744	1.74	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		99.601			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625226-07-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625226-07-T-D2.129
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 21:59:48
Batch ID: WG925965
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	5189.815	0.044	2.145	0.95689	5.28	ug/L
>	In	115	117503.406	117503.406	3.844			ug/L
	Sb	121	174449.690	1.482	2.250	40.66496	1.61	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		104.366			
	Sb	121					

Method 6020A - Summary Report

Sample ID: L1625226-08-T-D2

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\L1625226-08-T-D2.130
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 22:00:39
Batch ID: WG925965
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	5091.425	0.042	0.531	0.91196	1.17	ug/L
>	In	115	120749.287	120749.287	0.955			ug/L
	Sb	121	190211.164	1.572	2.812	43.13326	2.47	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		107.249			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 5.131
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 22:01:33
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	234045.496	2.291	1.786	50.12151	2.96	ug/L
>	In	115	102176.517	102176.517	1.557			ug/L
	Sb	121	214756.502	2.099	1.418	57.59424	2.53	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	100.243				
>	In	115		90.753			
	Sb	121	115.188				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 6.132
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 22:02:26
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	30.833	-0.000	36.786	-0.00429	50.82	ug/L
>	In	115	104901.615	104901.615	2.587			ug/L
	Sb	121	5094.763	0.045	5.302	1.24820	2.95	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107					
>	In	115		93.173			
	Sb	121					

Method 6020A - Summary Report

Sample ID: QC Std 9

Method File: C:\Elandata\Method\6020_ag_sb.mth
Dataset File: C:\Elandata\DataSet\wg926086\QC Std 9.133
Calibration File:
Sample Date/Time: Thursday, August 25, 2016 22:03:19
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Ag	107	1135.904	0.010	3.223	0.22039	5.00	ug/L
>	In	115	107608.011	107608.011	1.763			ug/L
	Sb	121	5120.609	0.045	1.687	1.22241	3.70	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Ag	107	88.158				
>	In	115		95.577			
	Sb	121	244.483				

Sample/Batch Report

Sample File: C:\Elandata\Sample\2T LOD.sam
Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\
Report Date/Time: Tuesday, August 30, 2016 14:42:55

A/S Loc.	Sample ID	Standards/Reagents
14	WG925972-1-T-D2	CAL - C071916-M1
15	WG925972-2-T-D10	ICV=I07191616-M1
16	WG925972-3-T-D10	IS=IS041416
17	WG925972-2-T-D50	ICSA=071916ICSA1
18	WG925972-3-T-D50	ICSAB=071916ICASB1
19	L1625082-01-T-D2	ACID=MW062916A
20	L1625082-02-T-D2	ICP-MS 2
21	L1625082-03-T-D2	
22	WG925972-7-T-D10	
23	WG925972-4-T-D2	
24	WG925972-5-T-D2	
25	WG925972-6-T-D2	
26	L1625082-04-T-D2	
27	L1625082-05-T-D2	
31	L1625082-01-T-D10	
38	WG925961-1-T-D2	
39	WG925961-2-T-D10	
40	WG925961-2-T-D50	
41	L1625234-01-T-D2	
42	WG925961-3-T-D2	
43	WG925961-4-T-D2	
44	WG925961-5-T-D2	
45	L1625234-02-T-D2	
46	WG925961-8-T-D10	
47	WG925961-6-T-D2	
48	WG925961-7-T-D2	

Calibration Report

Analyte	Mass	Curve Type	Slope	Intercept	Corr Coeff
Cr	51.941	Linear Thru Zero	0.015940	0.000	1.000000
Ni	59.933	Linear Thru Zero	0.004037	0.000	1.000000
Cu	62.930	Linear Thru Zero	0.009695	0.000	1.000000
Zn	65.926	Linear Thru Zero	0.002573	0.000	1.000000
Ge	73.922	Linear Thru Zero	0.000000	0.000	0.000000
As	74.922	Linear Thru Zero	0.003150	0.000	1.000000
Cd	113.904	Linear Thru Zero	0.013390	0.000	1.000000
In	114.904	Linear Thru Zero	0.000000	0.000	0.000000
Tb	158.925	Linear Thru Zero	0.000000	0.000	0.000000
Pb	207.977	Linear Thru Zero	0.062984	0.000	1.000000

Method 6020A - Summary Report

Sample ID: L1625534-02-T

Method File: C:\Elandata\Method\6020_2t.mth
Dataset File: C:\Elandata\DataSet\wg928209\L1625534-02-T.070
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:04:41
Batch ID: WG926036
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Li	6	132203.964	132203.964	3.318			ug/L
	Be	9	12.500	0.000	34.641	0.04770	51.65	ug/L
	Na	23	47373783.848	254.641	3.291	14466.95794	1.93	ug/L
	Mg	24	146622829.037	789.261	1.037	66822.13989	3.94	ug/L
	Al	27	182114.227	0.959	12.981	62.07809	10.83	ug/L
	K	39	32740346.527	174.846	5.047	6005.23319	3.09	ug/L
	Ca	44	28470511.174	152.951	3.541	163115.41916	2.20	ug/L
>	Sc	45	185913.667	185913.667	2.938			ug/L
	V	51	13595.530	-0.019	3.282	-1.02263	8.24	ug/L
	Cr	52	7268.741	0.011	3.606	0.66525	8.38	ug/L
	Mn	55	6530759.008	19.333	1.843	833.39583	1.97	ug/L
	Fe	57	2659480.979	7.869	1.955	17601.85675	3.10	ug/L
	Co	59	6370.148	0.019	0.877	1.01562	1.33	ug/L
	Ni	60	2715.823	0.008	5.237	1.91356	5.70	ug/L
	Cu	63	4715.390	0.012	3.574	1.22698	5.00	ug/L
	Zn	66	7869.685	0.022	11.630	8.59161	13.14	ug/L
>	Ge	74	337785.669	337785.669	1.178			ug/L
	As	75	21437.942	0.062	0.867	19.78237	1.12	ug/L
	Se	82	72.028	0.000	8.692	0.94043	8.35	ug/L
	Cd	114	81.775	0.000	5.194	0.02290	5.85	ug/L
>	In	115	207044.784	207044.784	0.748			ug/L
	Ba	138	2943492.026	12.145	1.400	215.31997	1.43	ug/L
>	Tb	159	242262.562	242262.562	2.763			ug/L
	Tl	205	451.261	0.002	6.075	0.03544	5.79	ug/L
	Pb	208	6910.530	0.025	69.160	0.41764	79.93	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Li	6		101.796			
	Be	9					
	Na	23					
	Mg	24					
	Al	27					
	K	39					
	Ca	44					
>	Sc	45		102.450			
	V	51					
	Cr	52					
	Mn	55					
	Fe	57					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		98.071			
	As	75					
	Se	82					
	Cd	114					
>	In	115		99.833			
	Ba	138					
>	Tb	159		98.142			
	Tl	205					
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_2t.mth
Dataset File: C:\Elandata\DataSet\wg928209\QC Std 5.071
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:11:53
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Li	6	135055.002	135055.002	0.500			ug/L
	Be	9	9868.273	0.073	2.969	50.09348	2.48	ug/L
	Na	23	14683464.441	81.789	1.444	4646.70125	4.16	ug/L
	Mg	24	10060356.298	56.170	2.475	4755.56677	5.07	ug/L
	Al	27	13370494.173	74.623	0.705	4829.87208	3.64	ug/L
	K	39	27045643.696	149.763	0.650	5143.72426	3.38	ug/L
	Ca	44	885016.177	4.750	1.314	5065.40262	3.98	ug/L
>	Sc	45	179294.180	179294.180	3.883			ug/L
	V	51	338698.336	0.947	3.572	50.90137	5.48	ug/L
	Cr	52	278000.079	0.815	1.893	50.92973	3.55	ug/L
	Mn	55	393446.115	1.166	1.221	50.25691	1.74	ug/L
	Fe	57	778632.124	2.306	2.169	5158.47309	2.70	ug/L
	Co	59	319274.611	0.948	1.775	51.52790	1.25	ug/L
	Ni	60	69356.560	0.206	2.150	50.78315	2.13	ug/L
	Cu	63	174601.645	0.517	2.061	52.39834	2.50	ug/L
	Zn	66	45945.412	0.135	1.487	52.34609	0.94	ug/L
>	Ge	74	336833.186	336833.186	1.606			ug/L
	As	75	53264.181	0.157	1.054	50.06125	2.64	ug/L
	Se	82	4390.976	0.013	4.721	50.89986	5.01	ug/L
	Cd	114	137931.539	0.665	1.003	50.63122	2.61	ug/L
>	In	115	207582.588	207582.588	1.613			ug/L
	Ba	138	629397.349	2.532	2.756	44.89844	3.73	ug/L
>	Tb	159	247800.110	247800.110	1.864			ug/L
	Tl	205	565821.342	2.284	1.694	50.66937	3.23	ug/L
	Pb	208	802088.086	3.234	1.311	53.17552	0.56	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Li	6		103.991			
	Be	9	100.187				
	Na	23	92.014				
	Mg	24	94.170				
	Al	27	95.641				
	K	39	93.522				
	Ca	44	100.305				
>	Sc	45		98.802			
	V	51	101.803				
	Cr	52	101.859				
	Mn	55	100.514				
	Fe	57	102.148				
	Co	59	103.056				
	Ni	60	101.566				
	Cu	63	104.797				
	Zn	66	104.692				
>	Ge	74		97.795			
	As	75	100.123				
	Se	82	101.800				
	Cd	114	101.262				
>	In	115		100.093			
	Ba	138	89.797				
>	Tb	159		100.385			
	Tl	205	101.339				
	Pb	208	106.351				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_2t.mth
Dataset File: C:\Elandata\DataSet\wg928209\QC Std 6.072
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:14:11
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Li	6	138790.754	138790.754	2.083			ug/L
	Be	9	13.750	0.000	94.476	0.05109	129.16	ug/L
	Na	23	22279.192	-0.067	49.408	-3.81555	93.83	ug/L
	Mg	24	15772.022	0.081	90.933	6.85298	99.75	ug/L
	Al	27	19624.563	0.090	115.675	5.80311	141.91	ug/L
	K	39	247874.373	0.142	5.057	4.86941	65.65	ug/L
	Ca	44	25268.871	-0.053	4.696	-56.46632	17.46	ug/L
>	Sc	45	183273.061	183273.061	2.535			ug/L
	V	51	9671.286	-0.031	5.404	-1.69016	6.14	ug/L
	Cr	52	4381.065	0.002	11.570	0.10767	83.35	ug/L
	Mn	55	1189.256	0.001	47.266	0.04413	154.76	ug/L
	Fe	57	3186.881	0.003	44.025	7.46843	117.77	ug/L
	Co	59	367.516	0.001	132.883	0.04719	160.01	ug/L
	Ni	60	168.752	0.000	53.534	0.04707	133.09	ug/L
	Cu	63	486.681	-0.000	38.844	-0.04816	109.11	ug/L
	Zn	66	407.926	0.000	21.915	0.02816	401.13	ug/L
>	Ge	74	347864.709	347864.709	4.520			ug/L
	As	75	445.999	-0.000	9.490	-0.09952	41.61	ug/L
	Se	82	61.913	0.000	21.418	0.80473	19.31	ug/L
	Cd	114	160.594	0.001	147.347	0.05096	168.38	ug/L
>	In	115	211647.915	211647.915	0.594			ug/L
	Ba	138	2969.331	0.003	30.076	0.06205	96.27	ug/L
>	Tb	159	250379.615	250379.615	1.632			ug/L
	Tl	205	547.105	0.002	71.765	0.04228	79.98	ug/L
	Pb	208	1323.810	0.002	89.969	0.03172	240.70	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Li	6		106.868			
	Be	9					
	Na	23					
	Mg	24					
	Al	27					
	K	39					
	Ca	44					
>	Sc	45		100.995			
	V	51					
	Cr	52					
	Mn	55					
	Fe	57					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		100.997			
	As	75					
	Se	82					
	Cd	114					
>	In	115		102.053			
	Ba	138					
>	Tb	159		101.430			
	Tl	205					
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 9

Method File: C:\Elandata\Method\6020_2t.mth
Dataset File: C:\Elandata\DataSet\wg928209\QC Std 9.073
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:16:22
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Li	6	132656.864	132656.864	2.540			ug/L
	Be	9	57.500	0.000	8.696	0.27974	9.06	ug/L
	Na	23	302706.542	1.551	4.187	88.13173	6.78	ug/L
	Mg	24	30383.629	0.169	2.614	14.26936	4.33	ug/L
	Al	27	33245.706	0.172	2.570	11.13675	3.92	ug/L
	K	39	690698.735	2.760	0.159	94.79800	6.29	ug/L
	Ca	44	40133.398	0.040	0.927	42.43328	20.99	ug/L
>	Sc	45	174118.411	174118.411	4.511			ug/L
	V	51	43238.036	0.067	2.088	3.58462	9.60	ug/L
	Cr	52	7292.926	0.010	3.192	0.64839	13.56	ug/L
	Mn	55	4690.376	0.011	0.675	0.48566	3.83	ug/L
	Fe	57	3737.852	0.005	2.498	11.37594	11.79	ug/L
	Co	59	1278.423	0.004	4.183	0.19245	2.15	ug/L
	Ni	60	839.622	0.002	6.275	0.53184	9.23	ug/L
	Cu	63	2031.894	0.004	0.675	0.41089	5.51	ug/L
	Zn	66	4754.163	0.013	6.329	4.93429	10.24	ug/L
>	Ge	74	343655.689	343655.689	3.369			ug/L
	As	75	1046.883	0.001	0.861	0.46495	8.88	ug/L
	Se	82	98.245	0.000	23.604	1.21826	19.11	ug/L
	Cd	114	553.648	0.002	3.938	0.18997	4.43	ug/L
>	In	115	213976.337	213976.337	0.330			ug/L
	Ba	138	7809.223	0.024	2.569	0.41885	2.45	ug/L
>	Tb	159	244378.300	244378.300	0.810			ug/L
	Tl	205	2211.936	0.009	3.551	0.19490	3.06	ug/L
	Pb	208	3338.995	0.010	3.460	0.17019	4.41	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Li	6		102.145			
	Be	9	93.246				
	Na	23	88.132				
	Mg	24	142.694				
	Al	27	111.368				
	K	39	94.798				
	Ca	44	42.433				
>	Sc	45		95.950			
	V	51	71.692				
	Cr	52	129.677				
	Mn	55	97.132				
	Fe	57	113.759				
	Co	59	96.224				
	Ni	60	106.368				
	Cu	63	82.179				
	Zn	66	98.686				
>	Ge	74		99.775			
	As	75	92.991				
	Se	82	121.826				
	Cd	114	94.983				
>	In	115		103.176			
	Ba	138	83.771				
>	Tb	159		98.999			
	Tl	205	97.451				
	Pb	208	85.095				

Method 6020A - Summary Report

Sample ID: Blank

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\Blank.001
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:22:14
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	4285.177		1.810			ug/L
	Ni	60	116.251		10.913			ug/L
	Cu	63	254.587		6.684			ug/L
	Zn	66	365.007		8.184			ug/L
>	Ge	74	353466.769		3.342			ug/L
	As	75	264.325		14.430			ug/L
	Cd	114	12.594		40.098			ug/L
>	In	115	213603.934		3.118			ug/L
>	Tb	159	248875.980		4.095			ug/L
	Pb	208	416.254		7.435			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74					
	As	75					
	Cd	114					
>	In	115					
>	Tb	159					
	Pb	208					

Method 6020A - Summary Report

Sample ID: Blank

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\Blank.002
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:24:47
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	4243.492		5.542			ug/L
	Ni	60	115.417		10.848			ug/L
	Cu	63	258.754		4.903			ug/L
	Zn	66	342.090		9.922			ug/L
>	Ge	74	343044.234		4.456			ug/L
	As	75	242.241		4.389			ug/L
	Cd	114	19.967		47.868			ug/L
>	In	115	211643.973		1.741			ug/L
>	Tb	159	250646.563		2.292			ug/L
	Pb	208	429.171		4.709			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74					
	As	75					
	Cd	114					
>	In	115					
>	Tb	159					
	Pb	208					

Method 6020A - Summary Report

Sample ID: Standard 1

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\Standard 1.003
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:26:03
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	554961.511	1.594	6.669	100.00000	8.96	ug/L
	Ni	60	139685.882	0.404	2.618	100.00000	4.58	ug/L
	Cu	63	335444.219	0.970	0.436	100.00000	3.39	ug/L
	Zn	66	89377.673	0.257	4.002	100.00000	1.82	ug/L
>	Ge	74	346012.383	346012.383	3.846			ug/L
	As	75	109184.314	0.315	1.686	100.00000	2.13	ug/L
	Cd	114	281254.172	1.339	3.049	100.00000	4.45	ug/L
>	In	115	210123.349	210123.349	1.399			ug/L
>	Tb	159	245781.850	245781.850	5.015			ug/L
	Pb	208	1545758.208	6.298	2.083	100.00000	5.56	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74					
	As	75					
	Cd	114					
>	In	115					
>	Tb	159					
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 1

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 1.004
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:27:21
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	279235.505	0.795	3.389	49.85806	5.49	ug/L
	Ni	60	69132.016	0.199	2.983	49.40472	4.82	ug/L
	Cu	63	171980.354	0.496	0.969	51.17340	2.49	ug/L
	Zn	66	46203.514	0.132	4.386	51.45967	2.62	ug/L
>	Ge	74	346224.897	346224.897	2.295			ug/L
	As	75	55007.551	0.158	3.392	50.22648	3.95	ug/L
	Cd	114	141648.710	0.689	0.944	51.43229	3.56	ug/L
>	In	115	205874.824	205874.824	4.463			ug/L
>	Tb	159	247394.227	247394.227	1.803			ug/L
	Pb	208	805602.358	3.256	1.982	51.69708	3.74	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52	99.716				
	Ni	60	98.809				
	Cu	63	102.347				
	Zn	66	102.919				
>	Ge	74		100.927			
	As	75	100.453				
	Cd	114	102.865				
>	In	115		97.274			
>	Tb	159		98.702			
	Pb	208	103.394				

Method 6020A - Summary Report

Sample ID: QC Std 2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 2.005
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:28:42
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	4471.100	0.001	2.372	0.03852	81.29	ug/L
	Ni	60	140.001	0.000	15.257	0.01721	83.15	ug/L
	Cu	63	273.755	0.000	43.824	0.00403	886.06	ug/L
	Zn	66	284.588	-0.000	2.536	-0.06651	6.39	ug/L
>	Ge	74	344521.850	344521.850	2.348			ug/L
	As	75	416.831	0.001	4.325	0.16012	13.19	ug/L
	Cd	114	12.819	-0.000	57.099	-0.00242	115.29	ug/L
>	In	115	209889.594	209889.594	3.359			ug/L
>	Tb	159	245320.533	245320.533	2.801			ug/L
	Pb	208	338.752	-0.000	2.055	-0.00526	3.71	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		100.431			
	As	75					
	Cd	114					
>	In	115		99.171			
>	Tb	159		97.875			
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 3

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 3.006
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:29:59
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	7430.551	0.010	8.751	0.61798	12.65	ug/L
	Ni	60	820.870	0.002	3.916	0.52532	2.02	ug/L
	Cu	63	1996.887	0.005	9.973	0.54039	14.70	ug/L
	Zn	66	4568.648	0.013	1.251	4.93232	4.37	ug/L
>	Ge	74	334010.812	334010.812	3.085			ug/L
	As	75	780.189	0.002	5.657	0.51730	6.63	ug/L
	Cd	114	522.323	0.002	1.251	0.17930	1.56	ug/L
>	In	115	209354.055	209354.055	1.268			ug/L
>	Tb	159	242620.480	242620.480	0.817			ug/L
	Pb	208	3217.722	0.012	4.442	0.18342	5.69	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52	123.596				
	Ni	60	105.063				
	Cu	63	108.079				
	Zn	66	98.646				
>	Ge	74		97.367			
	As	75	103.460				
	Cd	114	89.649				
>	In	115		98.918			
>	Tb	159		96.798			
	Pb	208	91.710				

Method 6020A - Summary Report

Sample ID: QC Std 7

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 7.007
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:31:31
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	20954.971	0.058	2.959	3.66809	8.78	ug/L
	Ni	60	2283.203	0.007	2.575	1.82805	6.96	ug/L
	Cu	63	10902.373	0.036	3.807	3.72433	8.18	ug/L
	Zn	66	3297.266	0.010	5.660	3.93384	1.51	ug/L
>	Ge	74	296499.390	296499.390	5.282			ug/L
	As	75	5937.938	0.019	3.165	6.14519	6.51	ug/L
	Cd	114	5038.920	0.026	6.205	1.93557	7.47	ug/L
>	In	115	193843.810	193843.810	1.497			ug/L
>	Tb	159	237524.191	237524.191	4.080			ug/L
	Pb	208	2294.698	0.008	3.401	0.12632	5.05	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		86.432			
	As	75					
	Cd	114					
>	In	115		91.590			
>	Tb	159		94.765			
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 8

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 8.008
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:32:47
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	469397.204	1.548	1.106	97.10755	1.32	ug/L
	Ni	60	112992.721	0.375	4.899	92.99060	6.27	ug/L
	Cu	63	279949.155	0.930	4.232	95.93374	5.30	ug/L
	Zn	66	76042.588	0.252	1.439	97.85466	2.56	ug/L
>	Ge	74	300867.435	300867.435	1.541			ug/L
	As	75	105382.088	0.350	2.721	110.98818	3.42	ug/L
	Cd	114	244771.607	1.263	1.945	94.34206	2.39	ug/L
>	In	115	193887.720	193887.720	4.364			ug/L
>	Tb	159	236439.129	236439.129	2.243			ug/L
	Pb	208	1339458.268	5.664	1.960	89.92212	0.42	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52	97.108				
	Ni	60	92.991				
	Cu	63	95.934				
	Zn	66	97.855				
>	Ge	74		87.705			
	As	75	110.988				
	Cd	114	94.342				
>	In	115		91.610			
>	Tb	159		94.332			
	Pb	208	89.922				

Method 6020A - Summary Report

Sample ID: QC Std 13

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 13.009
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:34:05
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	4547.804	0.001	2.071	0.06610	83.33	ug/L
	Ni	60	142.501	0.000	8.368	0.02096	58.79	ug/L
	Cu	63	406.676	0.000	13.261	0.04615	42.41	ug/L
	Zn	66	311.672	-0.000	8.065	-0.02976	135.57	ug/L
>	Ge	74	339431.945	339431.945	4.347			ug/L
	As	75	776.438	0.002	4.673	0.50316	10.22	ug/L
	Cd	114	45.387	0.000	13.651	0.00950	27.19	ug/L
>	In	115	205424.737	205424.737	3.962			ug/L
>	Tb	159	249314.973	249314.973	5.178			ug/L
	Pb	208	520.006	0.000	6.360	0.00606	61.52	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		98.947			
	As	75					
	Cd	114					
>	In	115		97.061			
>	Tb	159		99.469			
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 14

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 14.010
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:35:22
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	4529.463	0.001	3.966	0.07296	66.97	ug/L
	Ni	60	146.251	0.000	9.245	0.02482	38.97	ug/L
	Cu	63	355.424	0.000	10.577	0.03155	31.08	ug/L
	Zn	66	270.837	-0.000	11.157	-0.07363	40.00	ug/L
>	Ge	74	334923.785	334923.785	1.826			ug/L
	As	75	503.502	0.001	1.653	0.25316	4.36	ug/L
	Cd	114	20.037	0.000	26.041	0.00022	828.50	ug/L
>	In	115	205658.061	205658.061	1.262			ug/L
>	Tb	159	243944.315	243944.315	2.085			ug/L
	Pb	208	410.420	-0.000	7.369	-0.00046	448.47	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		97.633			
	As	75					
	Cd	114					
>	In	115		97.172			
>	Tb	159		97.326			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925972-1-T-D2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925972-1-T-D2.011
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:37:32
Batch ID: WG925972
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	5143.123	0.002	4.829	0.14475	47.03	ug/L
	Ni	60	212.503	0.000	12.155	0.06722	35.26	ug/L
	Cu	63	2390.317	0.006	11.935	0.62535	13.96	ug/L
	Zn	66	3473.998	0.009	4.843	3.45925	2.80	ug/L
>	Ge	74	350919.668	350919.668	3.724			ug/L
	As	75	446.832	0.001	8.807	0.18128	27.62	ug/L
	Cd	114	42.014	0.000	38.947	0.00769	73.29	ug/L
>	In	115	212516.429	212516.429	1.060			ug/L
>	Tb	159	256815.029	256815.029	2.473			ug/L
	Pb	208	2575.144	0.008	3.783	0.13211	6.08	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		102.296			
	As	75					
	Cd	114					
>	In	115		100.412			
>	Tb	159		102.461			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925972-2-T-D10

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925972-2-T-D10.012
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:38:48
Batch ID: WG925972
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	829391.157	2.591	0.563	162.54614	2.00	ug/L
	Ni	60	532999.802	1.673	3.221	414.26846	3.46	ug/L
	Cu	63	608838.595	1.910	3.425	196.96729	2.24	ug/L
	Zn	66	681629.959	2.138	1.411	830.95369	0.94	ug/L
>	Ge	74	318640.000	318640.000	1.442			ug/L
	As	75	533193.887	1.673	3.604	530.95095	3.13	ug/L
	Cd	114	757010.169	3.907	0.779	291.80436	2.25	ug/L
>	In	115	193808.255	193808.255	2.395			ug/L
>	Tb	159	241175.167	241175.167	1.474			ug/L
	Pb	208	3015538.120	12.504	1.041	198.53085	2.22	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		92.886			
	As	75					
	Cd	114					
>	In	115		91.573			
>	Tb	159		96.221			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925972-3-T-D10

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925972-3-T-D10.013
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:40:03
Batch ID: WG925972
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	740250.344	2.382	1.224	149.42343	3.46	ug/L
	Ni	60	481991.988	1.560	4.600	386.37600	7.68	ug/L
	Cu	63	552241.496	1.786	4.145	184.25783	6.82	ug/L
	Zn	66	585803.051	1.894	0.718	735.86753	2.97	ug/L
>	Ge	74	309392.712	309392.712	3.205			ug/L
	As	75	483403.343	1.563	0.662	496.13965	3.64	ug/L
	Cd	114	688151.795	3.722	4.200	277.97515	2.28	ug/L
>	In	115	184976.196	184976.196	5.221			ug/L
>	Tb	159	234650.912	234650.912	3.801			ug/L
	Pb	208	2469958.015	10.533	0.754	167.23296	3.30	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		90.190			
	As	75					
	Cd	114					
>	In	115		87.400			
>	Tb	159		93.618			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925972-2-T-D50

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925972-2-T-D50.014
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:41:19
Batch ID: WG925972
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	169287.371	0.550	4.823	34.48848	8.01	ug/L
	Ni	60	108497.972	0.360	3.804	89.12083	6.56	ug/L
	Cu	63	125175.778	0.415	2.286	42.75789	4.26	ug/L
	Zn	66	150016.878	0.496	5.162	192.80797	1.88	ug/L
>	Ge	74	301638.412	301638.412	3.310			ug/L
	As	75	112850.419	0.374	2.039	118.66080	4.85	ug/L
	Cd	114	161751.888	0.921	4.288	68.79978	8.55	ug/L
>	In	115	176036.483	176036.483	5.211			ug/L
>	Tb	159	210033.848	210033.848	2.103			ug/L
	Pb	208	616322.066	2.933	1.275	46.57266	1.99	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		87.930			
	As	75					
	Cd	114					
>	In	115		83.176			
>	Tb	159		83.797			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925972-3-T-D50

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925972-3-T-D50.015
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:42:35
Batch ID: WG925972
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	161772.673	0.537	1.313	33.68444	3.61	ug/L
	Ni	60	101707.400	0.345	4.602	85.48996	6.71	ug/L
	Cu	63	119046.704	0.404	3.548	41.62251	5.36	ug/L
	Zn	66	140010.770	0.474	3.465	184.26266	2.41	ug/L
>	Ge	74	294652.036	294652.036	2.180			ug/L
	As	75	107829.435	0.365	3.244	115.93117	1.39	ug/L
	Cd	114	152838.031	0.878	3.739	65.56489	1.40	ug/L
>	In	115	174046.493	174046.493	2.605			ug/L
>	Tb	159	210654.498	210654.498	3.392			ug/L
	Pb	208	521177.814	2.474	0.864	39.28139	3.18	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		85.893			
	As	75					
	Cd	114					
>	In	115		82.236			
>	Tb	159		84.044			
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 5.016
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:43:53
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	288134.808	0.820	5.824	51.45017	6.41	ug/L
	Ni	60	71057.317	0.205	3.903	50.76422	4.44	ug/L
	Cu	63	172150.984	0.497	0.650	51.21440	0.68	ug/L
	Zn	66	46735.698	0.134	2.252	52.07304	1.48	ug/L
>	Ge	74	346181.147	346181.147	0.924			ug/L
	As	75	56925.611	0.164	3.902	51.98736	4.57	ug/L
	Cd	114	140966.020	0.677	5.927	50.52514	5.69	ug/L
>	In	115	208320.667	208320.667	0.337			ug/L
>	Tb	159	248504.195	248504.195	1.643			ug/L
	Pb	208	816088.840	3.283	2.537	52.12456	3.25	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52	102.900				
	Ni	60	101.528				
	Cu	63	102.429				
	Zn	66	104.146				
>	Ge	74		100.914			
	As	75	103.975				
	Cd	114	101.050				
>	In	115		98.430			
>	Tb	159		99.145			
	Pb	208	104.249				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 6.017
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:45:10
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	4487.357	0.001	1.437	0.04461	69.97	ug/L
	Ni	60	124.584	0.000	8.993	0.00666	140.49	ug/L
	Cu	63	320.840	0.000	54.791	0.01904	284.79	ug/L
	Zn	66	323.339	-0.000	16.091	-0.02057	319.62	ug/L
>	Ge	74	343252.571	343252.571	2.486			ug/L
	As	75	1130.643	0.003	5.253	0.82275	9.63	ug/L
	Cd	114	17.211	-0.000	37.969	-0.00084	297.48	ug/L
>	In	115	208459.304	208459.304	4.722			ug/L
>	Tb	159	249934.598	249934.598	4.167			ug/L
	Pb	208	420.004	-0.000	2.976	-0.00048	224.17	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		100.061			
	As	75					
	Cd	114					
>	In	115		98.495			
>	Tb	159		99.716			
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 6.018
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:53:02
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	4451.090	0.000	3.486	0.03137	39.29	ug/L
	Ni	60	145.001	0.000	16.447	0.02030	71.82	ug/L
	Cu	63	285.005	0.000	38.068	0.00679	444.30	ug/L
	Zn	66	270.837	-0.000	6.944	-0.08337	16.85	ug/L
>	Ge	74	345801.362	345801.362	2.373			ug/L
	As	75	394.746	0.000	4.593	0.13852	16.54	ug/L
	Cd	114	19.619	0.000	84.717	0.00000	256348.28	ug/L
>	In	115	209302.478	209302.478	3.267			ug/L
>	Tb	159	246302.777	246302.777	2.381			ug/L
	Pb	208	263.335	-0.001	3.807	-0.01021	4.02	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		100.804			
	As	75					
	Cd	114					
>	In	115		98.894			
>	Tb	159		98.267			
	Pb	208					

Method 6020A - Summary Report

Sample ID: L1625082-01-T-D2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\L1625082-01-T-D2.019
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:54:35
Batch ID: WG925972
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	2626707.699	8.098	2.420	508.03217	5.44	ug/L
	Ni	60	193307.034	0.597	4.769	147.81986	7.79	ug/L
	Cu	63	1058882.324	3.273	6.496	337.58123	10.34	ug/L
	Zn	66	684723.897	2.112	0.997	820.84169	3.21	ug/L
>	Ge	74	324285.931	324285.931	3.927			ug/L
	As	75	61893.235	0.190	5.929	60.33857	2.75	ug/L
	Cd	114	19963.980	0.096	6.505	7.20633	3.99	ug/L
>	In	115	206623.107	206623.107	3.818			ug/L
>	Tb	159	307762.937	307762.937	2.066			ug/L
	Pb	208	5625872.660	18.281	1.562	290.24156	1.48	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		94.532			
	As	75					
	Cd	114					
>	In	115		97.628			
>	Tb	159		122.788			
	Pb	208					

Method 6020A - Summary Report

Sample ID: L1625082-02-T-D2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\L1625082-02-T-D2.020
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:55:51
Batch ID: WG925972
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	1825249.152	5.474	1.930	343.43726	3.19	ug/L
	Ni	60	163913.526	0.493	2.654	122.00039	4.91	ug/L
	Cu	63	790863.018	2.377	1.470	245.14448	3.20	ug/L
	Zn	66	563930.777	1.693	3.825	658.01239	1.76	ug/L
>	Ge	74	332803.563	332803.563	2.618			ug/L
	As	75	65178.951	0.195	1.180	61.96388	1.69	ug/L
	Cd	114	13898.026	0.068	6.418	5.09143	4.77	ug/L
>	In	115	203559.594	203559.594	3.763			ug/L
>	Tb	159	295319.617	295319.617	4.510			ug/L
	Pb	208	4135664.876	14.028	2.257	222.71904	6.20	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		97.015			
	As	75					
	Cd	114					
>	In	115		96.180			
>	Tb	159		117.823			
	Pb	208					

Method 6020A - Summary Report

Sample ID: L1625082-03-T-D2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\L1625082-03-T-D2.021
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:57:07
Batch ID: WG925972
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	1325588.652	4.011	3.770	251.61268	1.30	ug/L
	Ni	60	129627.365	0.393	1.549	97.45858	4.51	ug/L
	Cu	63	668663.361	2.031	3.009	209.46301	5.35	ug/L
	Zn	66	447194.932	1.357	1.291	527.44123	3.35	ug/L
>	Ge	74	329455.804	329455.804	3.082			ug/L
	As	75	49531.499	0.150	1.433	47.54499	4.46	ug/L
	Cd	114	10575.094	0.052	4.085	3.89415	4.16	ug/L
>	In	115	202460.331	202460.331	1.102			ug/L
>	Tb	159	295047.574	295047.574	0.955			ug/L
	Pb	208	3039249.693	10.299	0.689	163.52359	0.50	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		96.039			
	As	75					
	Cd	114					
>	In	115		95.661			
>	Tb	159		117.715			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925972-7-T-D10

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925972-7-T-D10.022
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:58:22
Batch ID: WG925972
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	308496.837	1.043	0.812	65.43234	2.90	ug/L
	Ni	60	30127.019	0.103	5.454	25.46604	8.06	ug/L
	Cu	63	152707.790	0.522	5.068	53.86026	8.05	ug/L
	Zn	66	113617.310	0.388	1.164	150.64630	2.39	ug/L
>	Ge	74	292492.775	292492.775	3.387			ug/L
	As	75	11204.575	0.038	0.782	11.94421	3.04	ug/L
	Cd	114	2494.114	0.014	3.990	1.05379	3.73	ug/L
>	In	115	175603.303	175603.303	2.290			ug/L
>	Tb	159	219087.142	219087.142	3.736			ug/L
	Pb	208	698050.493	3.188	1.251	50.61015	4.16	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		85.264			
	As	75					
	Cd	114					
>	In	115		82.971			
>	Tb	159		87.409			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925972-4-T-D2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925972-4-T-D2.023
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 13:59:38
Batch ID: WG925972
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	1659472.671	5.043	5.233	316.37070	6.10	ug/L
	Ni	60	168611.469	0.513	1.053	127.10946	1.90	ug/L
	Cu	63	871888.188	2.654	3.382	273.74571	2.55	ug/L
	Zn	66	577891.940	1.759	4.282	683.54260	4.28	ug/L
>	Ge	74	328368.879	328368.879	0.856			ug/L
	As	75	63806.758	0.194	0.987	61.46190	1.13	ug/L
	Cd	114	14108.565	0.070	3.130	5.23446	3.56	ug/L
>	In	115	201056.968	201056.968	1.338			ug/L
>	Tb	159	300871.298	300871.298	2.442			ug/L
	Pb	208	4290639.448	14.259	2.840	226.39598	1.73	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		95.722			
	As	75					
	Cd	114					
>	In	115		94.998			
>	Tb	159		120.038			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925972-5-T-D2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925972-5-T-D2.024
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:00:54
Batch ID: WG925972
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	12360342.997	39.748	2.846	2493.55534	1.02	ug/L
	Ni	60	2740792.603	8.822	3.167	2184.92826	4.68	ug/L
	Cu	63	7123089.158	22.927	5.072	2364.71170	6.22	ug/L
	Zn	66	2194832.864	7.065	2.131	2745.38298	4.50	ug/L
>	Ge	74	310951.299	310951.299	3.869			ug/L
	As	75	2216931.424	7.131	2.632	2263.78963	1.60	ug/L
	Cd	114	2693152.585	13.574	1.470	1013.77871	2.43	ug/L
>	In	115	198517.457	198517.457	3.754			ug/L
>	Tb	159	296489.610	296489.610	2.510			ug/L
	Pb	208	37715049.148	127.285	1.592	2020.90021	3.94	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		90.645			
	As	75					
	Cd	114					
>	In	115		93.798			
>	Tb	159		118.290			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925972-6-T-D2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925972-6-T-D2.025
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:02:10
Batch ID: WG925972
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	11408525.580	36.254	2.859	2274.32825	4.00	ug/L
	Ni	60	2597945.698	8.268	4.869	2047.82907	8.13	ug/L
	Cu	63	6722648.947	21.388	1.235	2205.98683	5.89	ug/L
	Zn	66	2035667.681	6.464	4.609	2512.01405	0.90	ug/L
>	Ge	74	314899.720	314899.720	4.796			ug/L
	As	75	2134528.526	6.787	1.883	2154.64680	4.86	ug/L
	Cd	114	2648742.171	13.762	4.728	1027.79729	5.67	ug/L
>	In	115	192537.945	192537.945	1.038			ug/L
>	Tb	159	289510.636	289510.636	2.961			ug/L
	Pb	208	36552910.169	126.347	1.414	2006.01702	3.85	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		91.796			
	As	75					
	Cd	114					
>	In	115		90.973			
>	Tb	159		115.506			
	Pb	208					

Method 6020A - Summary Report

Sample ID: L1625082-04-T-D2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\L1625082-04-T-D2.026
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:03:26
Batch ID: WG925972
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	990915.116	2.972	5.991	186.45559	3.96	ug/L
	Ni	60	108104.119	0.325	1.954	80.60608	0.17	ug/L
	Cu	63	504050.750	1.519	0.879	156.65167	2.85	ug/L
	Zn	66	493636.652	1.487	3.319	577.75243	2.97	ug/L
>	Ge	74	331838.048	331838.048	2.114			ug/L
	As	75	47866.768	0.144	0.807	45.58436	2.84	ug/L
	Cd	114	8592.133	0.043	2.386	3.18246	0.41	ug/L
>	In	115	201186.849	201186.849	2.297			ug/L
>	Tb	159	287623.424	287623.424	0.633			ug/L
	Pb	208	3148732.597	10.946	4.933	173.79205	5.01	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		96.733			
	As	75					
	Cd	114					
>	In	115		95.059			
>	Tb	159		114.753			
	Pb	208					

Method 6020A - Summary Report

Sample ID: L1625082-05-T-D2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\L1625082-05-T-D2.027
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:04:42
Batch ID: WG925972
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	1291938.898	4.040	1.737	253.43234	3.27	ug/L
	Ni	60	121783.208	0.382	4.853	94.54671	6.23	ug/L
	Cu	63	864400.874	2.711	5.364	279.61004	6.52	ug/L
	Zn	66	462230.358	1.448	1.753	562.88280	1.91	ug/L
>	Ge	74	318933.817	318933.817	1.541			ug/L
	As	75	75929.679	0.237	3.647	75.33649	2.26	ug/L
	Cd	114	8384.364	0.043	3.352	3.20080	2.58	ug/L
>	In	115	195394.609	195394.609	5.886			ug/L
>	Tb	159	286693.847	286693.847	2.129			ug/L
	Pb	208	2687686.656	9.374	1.308	148.83524	1.02	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		92.972			
	As	75					
	Cd	114					
>	In	115		92.322			
>	Tb	159		114.382			
	Pb	208					

Method 6020A - Summary Report

Sample ID: L1625082-01-T-D10

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\L1625082-01-T-D10.028
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:06:40
Batch ID: WG925972
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	491685.959	1.506	1.577	94.48303	6.49	ug/L
	Ni	60	39329.067	0.121	1.427	29.99776	6.28	ug/L
	Cu	63	217955.994	0.673	2.741	69.37311	7.64	ug/L
	Zn	66	139113.954	0.428	3.743	166.31619	2.57	ug/L
>	Ge	74	324460.676	324460.676	4.704			ug/L
	As	75	12074.450	0.037	4.478	11.59456	3.36	ug/L
	Cd	114	3765.112	0.019	7.695	1.39274	5.56	ug/L
>	In	115	200760.494	200760.494	3.042			ug/L
>	Tb	159	253998.992	253998.992	4.669			ug/L
	Pb	208	1127868.738	4.445	2.249	70.57995	5.33	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		94.583			
	As	75					
	Cd	114					
>	In	115		94.858			
>	Tb	159		101.338			
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 5.029
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:07:58
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	269427.333	0.820	1.563	51.44955	4.24	ug/L
	Ni	60	66881.694	0.206	4.451	51.11047	6.41	ug/L
	Cu	63	166930.635	0.515	1.710	53.11867	4.04	ug/L
	Zn	66	44412.390	0.136	0.562	52.92397	2.37	ug/L
>	Ge	74	323889.146	323889.146	2.881			ug/L
	As	75	51839.355	0.159	2.394	50.58909	0.77	ug/L
	Cd	114	135450.344	0.681	2.828	50.86270	1.75	ug/L
>	In	115	198964.561	198964.561	4.575			ug/L
>	Tb	159	243109.529	243109.529	3.825			ug/L
	Pb	208	814251.427	3.352	1.183	53.21503	4.82	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52	102.899				
	Ni	60	102.221				
	Cu	63	106.237				
	Zn	66	105.848				
>	Ge	74		94.416			
	As	75	101.178				
	Cd	114	101.725				
>	In	115		94.009			
>	Tb	159		96.993			
	Pb	208	106.430				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 6.030
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:09:16
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	4441.088	0.001	6.665	0.06754	98.72	ug/L
	Ni	60	156.668	0.000	16.064	0.03430	60.38	ug/L
	Cu	63	605.023	0.001	45.113	0.11032	74.37	ug/L
	Zn	66	341.673	0.000	16.703	0.01367	446.50	ug/L
>	Ge	74	330491.535	330491.535	1.616			ug/L
	As	75	571.423	0.001	7.997	0.32498	14.85	ug/L
	Cd	114	22.229	0.000	103.049	0.00124	670.88	ug/L
>	In	115	202123.071	202123.071	5.045			ug/L
>	Tb	159	246660.310	246660.310	3.175			ug/L
	Pb	208	588.341	0.001	4.272	0.01072	21.69	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		96.341			
	As	75					
	Cd	114					
>	In	115		95.501			
>	Tb	159		98.410			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925961-1-T-D2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925961-1-T-D2.031
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:13:56
Batch ID: WG925961
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	5950.281	0.005	2.634	0.32587	5.37	ug/L
	Ni	60	319.589	0.001	2.747	0.15052	8.35	ug/L
	Cu	63	1149.658	0.003	18.223	0.27334	26.79	ug/L
	Zn	66	1270.089	0.003	7.675	1.07225	14.56	ug/L
>	Ge	74	338860.862	338860.862	3.566			ug/L
	As	75	393.080	0.000	4.685	0.14458	17.91	ug/L
	Cd	114	-32.377	-0.000	157.906	-0.01865	101.43	ug/L
>	In	115	206079.314	206079.314	5.295			ug/L
>	Tb	159	251987.743	251987.743	1.643			ug/L
	Pb	208	1545.885	0.004	1.456	0.07024	3.76	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		98.781			
	As	75					
	Cd	114					
>	In	115		97.371			
>	Tb	159		100.535			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925961-2-T-D10

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925961-2-T-D10.032
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:15:12
Batch ID: WG925961
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	877763.627	2.890	2.558	181.32397	6.50	ug/L
	Ni	60	551822.774	1.825	3.966	452.00958	7.71	ug/L
	Cu	63	640153.870	2.116	2.978	218.19650	5.87	ug/L
	Zn	66	708672.147	2.341	1.987	909.63557	3.87	ug/L
>	Ge	74	303065.455	303065.455	5.691			ug/L
	As	75	561446.848	1.854	2.488	588.58706	3.33	ug/L
	Cd	114	795597.107	4.363	4.648	325.86309	5.71	ug/L
>	In	115	182413.297	182413.297	1.398			ug/L
>	Tb	159	241164.542	241164.542	2.564			ug/L
	Pb	208	2952032.265	12.252	3.688	194.52525	6.21	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		88.346			
	As	75					
	Cd	114					
>	In	115		86.189			
>	Tb	159		96.217			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925961-2-T-D50

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925961-2-T-D50.033
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:16:28
Batch ID: WG925961
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	176426.122	0.600	7.639	37.64190	6.57	ug/L
	Ni	60	112504.068	0.390	1.634	96.71613	3.14	ug/L
	Cu	63	130123.709	0.451	2.245	46.55019	3.92	ug/L
	Zn	66	155047.749	0.538	4.500	208.89715	4.79	ug/L
>	Ge	74	287961.244	287961.244	1.761			ug/L
	As	75	118618.482	0.411	1.332	130.58192	2.93	ug/L
	Cd	114	171181.546	1.020	2.167	76.21129	5.41	ug/L
>	In	115	167949.766	167949.766	3.768			ug/L
>	Tb	159	206754.995	206754.995	1.432			ug/L
	Pb	208	600688.557	2.904	1.659	46.10116	1.05	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		83.943			
	As	75					
	Cd	114					
>	In	115		79.355			
>	Tb	159		82.489			
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 5.034
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:17:46
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	272881.651	0.813	5.054	50.99910	6.34	ug/L
	Ni	60	68624.431	0.207	2.893	51.30936	3.71	ug/L
	Cu	63	167372.842	0.505	1.763	52.10541	0.61	ug/L
	Zn	66	44871.370	0.135	3.087	52.32272	2.54	ug/L
>	Ge	74	330800.519	330800.519	1.160			ug/L
	As	75	54857.250	0.165	5.351	52.42838	5.74	ug/L
	Cd	114	137367.785	0.679	0.690	50.72949	2.20	ug/L
>	In	115	202287.202	202287.202	2.817			ug/L
>	Tb	159	244028.056	244028.056	1.321			ug/L
	Pb	208	821673.524	3.366	0.421	53.44081	1.73	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52	101.998				
	Ni	60	102.619				
	Cu	63	104.211				
	Zn	66	104.645				
>	Ge	74		96.431			
	As	75	104.857				
	Cd	114	101.459				
>	In	115		95.579			
>	Tb	159		97.359			
	Pb	208	106.882				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 6.035
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:19:03
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	4333.116	0.001	2.517	0.04198	108.85	ug/L
	Ni	60	146.251	0.000	17.537	0.02604	88.17	ug/L
	Cu	63	308.339	0.000	15.646	0.01821	102.25	ug/L
	Zn	66	285.005	-0.000	10.806	-0.05509	49.01	ug/L
>	Ge	74	332727.811	332727.811	3.546			ug/L
	As	75	931.871	0.002	13.680	0.66386	15.63	ug/L
	Cd	114	17.962	-0.000	146.743	-0.00035	2848.90	ug/L
>	In	115	204772.290	204772.290	3.011			ug/L
>	Tb	159	248531.038	248531.038	3.127			ug/L
	Pb	208	450.421	0.000	7.657	0.00156	84.89	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		96.993			
	As	75					
	Cd	114					
>	In	115		96.753			
>	Tb	159		99.156			
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 6.036
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:21:04
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	4168.041	0.000	6.330	0.01106	574.03	ug/L
	Ni	60	145.001	0.000	4.562	0.02464	11.34	ug/L
	Cu	63	360.840	0.000	2.088	0.03414	6.62	ug/L
	Zn	66	280.421	-0.000	1.688	-0.05971	14.83	ug/L
>	Ge	74	332522.155	332522.155	2.090			ug/L
	As	75	535.171	0.001	9.623	0.28758	20.90	ug/L
	Cd	114	12.347	-0.000	77.878	-0.00239	157.20	ug/L
>	In	115	201021.273	201021.273	2.965			ug/L
>	Tb	159	246612.995	246612.995	1.123			ug/L
	Pb	208	305.002	-0.000	12.316	-0.00756	29.70	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		96.933			
	As	75					
	Cd	114					
>	In	115		94.981			
>	Tb	159		98.391			
	Pb	208					

Method 6020A - Summary Report

Sample ID: L1625234-01-T-D2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\L1625234-01-T-D2.037
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:22:41
Batch ID: WG925961
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	1292605.859	4.101	2.702	257.26188	4.95	ug/L
	Ni	60	433254.920	1.378	1.348	341.40628	4.50	ug/L
	Cu	63	736430.053	2.340	3.929	241.37240	0.87	ug/L
	Zn	66	389645.564	1.237	7.039	480.62318	3.79	ug/L
>	Ge	74	314541.350	314541.350	3.244			ug/L
	As	75	34078.577	0.108	2.296	34.19220	3.87	ug/L
	Cd	114	1988.794	0.010	4.321	0.74570	6.83	ug/L
>	In	115	197602.021	197602.021	3.880			ug/L
>	Tb	159	313365.227	313365.227	1.136			ug/L
	Pb	208	479336.781	1.528	2.496	24.26409	3.36	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		91.691			
	As	75					
	Cd	114					
>	In	115		93.365			
>	Tb	159		125.023			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925961-3-T-D2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925961-3-T-D2.038
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:23:57
Batch ID: WG925961
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	1338828.666	4.204	1.643	263.75545	7.71	ug/L
	Ni	60	449950.634	1.418	3.627	351.09885	9.29	ug/L
	Cu	63	741310.775	2.335	3.020	240.79673	8.62	ug/L
	Zn	66	365456.468	1.148	2.364	446.29886	4.70	ug/L
>	Ge	74	318524.958	318524.958	6.245			ug/L
	As	75	33960.673	0.106	3.711	33.65977	3.09	ug/L
	Cd	114	1987.740	0.010	2.843	0.73245	0.92	ug/L
>	In	115	200787.799	200787.799	3.631			ug/L
>	Tb	159	304619.870	304619.870	2.961			ug/L
	Pb	208	473725.131	1.554	0.702	24.68000	3.39	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		92.852			
	As	75					
	Cd	114					
>	In	115		94.871			
>	Tb	159		121.534			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925961-4-T-D2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925961-4-T-D2.039
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:25:13
Batch ID: WG925961
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	11385046.489	36.848	4.062	2311.64454	6.23	ug/L
	Ni	60	2932185.065	9.489	2.239	2350.28446	3.90	ug/L
	Cu	63	6762973.009	21.892	2.651	2257.95768	4.91	ug/L
	Zn	66	1842805.021	5.960	2.932	2315.94165	1.17	ug/L
>	Ge	74	309150.436	309150.436	2.346			ug/L
	As	75	1951895.931	6.316	1.437	2004.95492	3.19	ug/L
	Cd	114	2651694.497	13.710	3.708	1023.89628	1.95	ug/L
>	In	115	193422.357	193422.357	3.371			ug/L
>	Tb	159	295693.036	295693.036	5.044			ug/L
	Pb	208	32988189.087	111.779	2.974	1774.72063	6.43	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		90.120			
	As	75					
	Cd	114					
>	In	115		91.390			
>	Tb	159		117.972			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925961-5-T-D2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925961-5-T-D2.040
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:26:28
Batch ID: WG925961
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	11516455.940	37.982	4.051	2382.75851	1.01	ug/L
	Ni	60	2855922.405	9.432	1.998	2336.06577	4.50	ug/L
	Cu	63	6767032.668	22.353	2.316	2305.47959	5.23	ug/L
	Zn	66	1835938.980	6.060	2.846	2355.16585	3.77	ug/L
>	Ge	74	303057.645	303057.645	3.216			ug/L
	As	75	2003560.714	6.621	5.055	2101.89945	8.12	ug/L
	Cd	114	2740186.607	13.876	2.270	1036.33332	5.47	ug/L
>	In	115	197730.425	197730.425	3.763			ug/L
>	Tb	159	295045.603	295045.603	2.640			ug/L
	Pb	208	33319312.791	113.029	2.681	1794.55943	5.18	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		88.344			
	As	75					
	Cd	114					
>	In	115		93.426			
>	Tb	159		117.714			
	Pb	208					

Method 6020A - Summary Report

Sample ID: L1625234-02-T-D2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\L1625234-02-T-D2.041
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:27:44
Batch ID: WG925961
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	1305789.383	4.119	0.524	258.37084	4.19	ug/L
	Ni	60	332501.861	1.053	5.799	260.72304	9.17	ug/L
	Cu	63	669877.512	2.119	1.893	218.55067	5.35	ug/L
	Zn	66	312972.485	0.989	0.396	384.34226	3.86	ug/L
>	Ge	74	316439.431	316439.431	3.814			ug/L
	As	75	40537.935	0.127	2.023	40.47261	3.44	ug/L
	Cd	114	1730.388	0.009	2.856	0.64102	1.90	ug/L
>	In	115	199529.798	199529.798	4.741			ug/L
>	Tb	159	293769.987	293769.987	4.612			ug/L
	Pb	208	354034.785	1.205	2.047	19.13777	5.56	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		92.244			
	As	75					
	Cd	114					
>	In	115		94.276			
>	Tb	159		117.205			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925961-8-T-D10

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925961-8-T-D10.042
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:29:00
Batch ID: WG925961
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	289988.716	1.005	2.009	63.02159	4.18	ug/L
	Ni	60	77107.072	0.270	3.049	66.88884	4.63	ug/L
	Cu	63	156983.071	0.550	1.087	56.68106	1.47	ug/L
	Zn	66	76749.582	0.268	5.796	104.12738	4.81	ug/L
>	Ge	74	285318.391	285318.391	2.100			ug/L
	As	75	9440.491	0.032	3.294	10.28652	5.34	ug/L
	Cd	114	396.521	0.002	10.022	0.16814	9.48	ug/L
>	In	115	169086.798	169086.798	4.592			ug/L
>	Tb	159	221529.426	221529.426	1.261			ug/L
	Pb	208	77884.408	0.350	1.848	5.55561	2.53	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		83.172			
	As	75					
	Cd	114					
>	In	115		79.892			
>	Tb	159		88.383			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925961-6-T-D2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925961-6-T-D2.043
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:30:16
Batch ID: WG925961
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	11739020.934	38.204	1.832	2396.67460	3.95	ug/L
	Ni	60	2920041.904	9.512	5.841	2355.85339	8.15	ug/L
	Cu	63	7075952.011	23.045	2.906	2376.91241	5.89	ug/L
	Zn	66	1972964.430	6.424	6.636	2496.30075	7.88	ug/L
>	Ge	74	307435.124	307435.124	3.660			ug/L
	As	75	2056400.402	6.684	6.514	2121.77372	3.28	ug/L
	Cd	114	2794204.492	14.034	4.823	1048.12702	1.88	ug/L
>	In	115	199033.157	199033.157	3.107			ug/L
>	Tb	159	296661.219	296661.219	1.800			ug/L
	Pb	208	34623331.685	116.727	0.905	1853.27864	1.56	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		89.620			
	As	75					
	Cd	114					
>	In	115		94.041			
>	Tb	159		118.358			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925961-7-T-D2

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\WG925961-7-T-D2.044
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:31:32
Batch ID: WG925961
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	11637270.133	37.240	4.725	2336.23178	7.93	ug/L
	Ni	60	2911343.068	9.317	2.451	2307.57547	6.13	ug/L
	Cu	63	6927314.003	22.159	0.852	2285.51848	4.40	ug/L
	Zn	66	1917855.560	6.131	1.742	2382.74357	3.00	ug/L
>	Ge	74	313019.199	313019.199	4.575			ug/L
	As	75	2296261.656	7.348	2.316	2332.62165	6.08	ug/L
	Cd	114	2821598.008	14.271	4.152	1065.81243	7.86	ug/L
>	In	115	198131.649	198131.649	4.454			ug/L
>	Tb	159	300805.074	300805.074	1.893			ug/L
	Pb	208	34346915.153	114.196	1.856	1813.09183	1.91	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		91.247			
	As	75					
	Cd	114					
>	In	115		93.616			
>	Tb	159		120.012			
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 5.045
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:32:51
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	271179.587	0.830	2.410	52.07836	3.25	ug/L
	Ni	60	65221.177	0.202	2.988	50.10538	3.73	ug/L
	Cu	63	166677.912	0.517	2.189	53.33955	3.56	ug/L
	Zn	66	44618.421	0.138	1.981	53.48855	3.38	ug/L
>	Ge	74	321979.437	321979.437	2.458			ug/L
	As	75	57263.672	0.177	4.955	56.21228	2.72	ug/L
	Cd	114	136393.939	0.694	0.970	51.83838	3.94	ug/L
>	In	115	196645.698	196645.698	3.334			ug/L
>	Tb	159	245196.911	245196.911	2.856			ug/L
	Pb	208	819651.694	3.342	0.992	53.06575	1.86	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52	104.157				
	Ni	60	100.211				
	Cu	63	106.679				
	Zn	66	106.977				
>	Ge	74		93.859			
	As	75	112.425				
	Cd	114	103.677				
>	In	115		92.913			
>	Tb	159		97.826			
	Pb	208	106.131				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 6.046
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:34:08
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	4312.694	0.001	7.867	0.03758	170.69	ug/L
	Ni	60	193.335	0.000	8.586	0.06071	21.66	ug/L
	Cu	63	597.936	0.001	7.625	0.10761	12.17	ug/L
	Zn	66	349.173	0.000	5.241	0.02046	95.14	ug/L
>	Ge	74	332541.494	332541.494	0.657			ug/L
	As	75	1735.325	0.005	14.837	1.43301	17.53	ug/L
	Cd	114	29.798	0.000	47.516	0.00391	132.18	ug/L
>	In	115	202862.083	202862.083	0.559			ug/L
>	Tb	159	242013.665	242013.665	1.444			ug/L
	Pb	208	1602.972	0.005	4.500	0.07795	4.72	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		96.938			
	As	75					
	Cd	114					
>	In	115		95.851			
>	Tb	159		96.556			
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 5.047
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:35:58
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	283533.825	0.846	3.091	53.05414	5.16	ug/L
	Ni	60	67749.469	0.205	1.551	50.67021	1.30	ug/L
	Cu	63	166719.434	0.503	4.094	51.91460	2.45	ug/L
	Zn	66	45649.497	0.137	4.745	53.25060	3.47	ug/L
>	Ge	74	330657.222	330657.222	2.007			ug/L
	As	75	53484.683	0.161	2.359	51.12832	2.12	ug/L
	Cd	114	136262.917	0.690	3.353	51.54121	4.78	ug/L
>	In	115	197508.797	197508.797	1.425			ug/L
>	Tb	159	242380.283	242380.283	2.430			ug/L
	Pb	208	809898.838	3.340	1.889	53.03341	1.56	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52	106.108				
	Ni	60	101.340				
	Cu	63	103.829				
	Zn	66	106.501				
>	Ge	74		96.389			
	As	75	102.257				
	Cd	114	103.082				
>	In	115		93.321			
>	Tb	159		96.702			
	Pb	208	106.067				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 6.048
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:37:50
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	4389.811	0.001	4.148	0.03656	61.37	ug/L
	Ni	60	188.335	0.000	2.513	0.05437	8.33	ug/L
	Cu	63	472.929	0.001	11.444	0.06641	28.69	ug/L
	Zn	66	335.006	-0.000	5.290	-0.00348	370.20	ug/L
>	Ge	74	338853.532	338853.532	2.282			ug/L
	As	75	688.515	0.001	9.972	0.42035	12.75	ug/L
	Cd	114	-2.801	-0.000	1336.719	-0.00833	168.45	ug/L
>	In	115	201657.304	201657.304	2.635			ug/L
>	Tb	159	245038.555	245038.555	2.854			ug/L
	Pb	208	833.348	0.002	3.766	0.02687	12.85	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	74		98.778			
	As	75					
	Cd	114					
>	In	115		95.281			
>	Tb	159		97.763			
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 9

Method File: C:\Elandata\Method\6020_401_wq.mth
Dataset File: C:\Elandata\DataSet\wg927333\QC Std 9.049
Calibration File:
Sample Date/Time: Tuesday, August 30, 2016 14:41:02
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
	Cr	52	7197.850	0.009	2.788	0.56314	0.86	ug/L
	Ni	60	848.790	0.002	3.927	0.54007	2.45	ug/L
	Cu	63	2193.182	0.006	8.405	0.59392	11.29	ug/L
	Zn	66	4494.862	0.012	2.826	4.79308	1.36	ug/L
>	Ge	74	337208.082	337208.082	3.092			ug/L
	As	75	997.294	0.002	3.341	0.71489	3.89	ug/L
	Cd	114	507.274	0.002	12.600	0.18296	15.58	ug/L
>	In	115	199912.635	199912.635	4.398			ug/L
>	Tb	159	244394.813	244394.813	7.166			ug/L
	Pb	208	3542.771	0.013	3.081	0.20404	11.03	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Cr	52	112.628				
	Ni	60	108.014				
	Cu	63	118.784				
	Zn	66	95.862				
>	Ge	74		98.299			
	As	75	142.979				
	Cd	114	91.482				
>	In	115		94.457			
>	Tb	159		97.506			
	Pb	208	102.020				

Sample/Batch Report

Sample File: C:\Elandata\Sample\2T LOD.sam
Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\
Report Date/Time: Wednesday, August 31, 2016 09:20:37

A/S Loc.	Sample ID	Standards/Reagents
14	L1625234-01-T-D10	CAL - C071916-M1
15	WG925961-3-T-D10	ICV=I07191616-M1
16	WG925961-4-T-D10	IS=IS041416
17	WG925961-5-T-D10	ICSA=071916ICSA1
18		ICSAB=071916ICASB1
19		ACID=MW062916A
20		ICP-MS 2

Calibration Report

Analyte	Mass	Curve Type	Slope	Intercept	Corr Coeff
Tb	158.925	Linear Thru Zero	0.000000	0.000	0.000000
Pb	207.977	Linear Thru Zero	0.060155	0.000	1.000000

Method 6020A - Summary Report

Sample ID: Blank

Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\Blank.001
Calibration File:
Sample Date/Time: Wednesday, August 31, 2016 08:58:03
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Tb	159	240868.884		0.448			ug/L
	Pb	208	858.767		4.665			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Tb	159					
	Pb	208					

Method 6020A - Summary Report

Sample ID: Blank

Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\Blank.002
Calibration File:
Sample Date/Time: Wednesday, August 31, 2016 09:01:03
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Tb	159	240442.995		3.032			ug/L
	Pb	208	486.672		2.921			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Tb	159					
	Pb	208					

Method 6020A - Summary Report

Sample ID: Standard 1

Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\Standard 1.003
Calibration File:
Sample Date/Time: Wednesday, August 31, 2016 09:01:55
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Tb	159	238343.342	238343.342	3.936			ug/L
	Pb	208	1432809.138	6.016	0.358	100.00000	3.82	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Tb	159					
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 1

Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\QC Std 1.004
Calibration File:
Sample Date/Time: Wednesday, August 31, 2016 09:02:48
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Tb	159	240696.314	240696.314	2.341			ug/L
	Pb	208	731176.441	3.036	2.758	50.47675	3.00	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Tb	159		100.105			
	Pb	208	100.954				

Method 6020A - Summary Report

Sample ID: QC Std 2

Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\QC Std 2.005
Calibration File:
Sample Date/Time: Wednesday, August 31, 2016 09:03:41
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Tb	159	239930.634	239930.634	1.187			ug/L
	Pb	208	565.840	0.000	4.009	0.00556	28.41	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Tb	159		99.787			
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 3

Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\QC Std 3.006
Calibration File:
Sample Date/Time: Wednesday, August 31, 2016 09:04:34
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Tb	159	236262.312	236262.312	4.074			ug/L
	Pb	208	3152.714	0.011	3.334	0.18823	1.09	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Tb	159		98.261			
	Pb	208	94.114				

Method 6020A - Summary Report

Sample ID: QC Std 7

Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\QC Std 7.007
Calibration File:
Sample Date/Time: Wednesday, August 31, 2016 09:05:27
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Tb	159	229144.089	229144.089	3.054			ug/L
	Pb	208	2999.779	0.011	0.624	0.18409	3.17	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Tb	159		95.301			
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 8

Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\QC Std 8.008
Calibration File:
Sample Date/Time: Wednesday, August 31, 2016 09:06:19
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Tb	159	231559.932	231559.932	0.096			ug/L
	Pb	208	1228651.912	5.304	1.732	88.17127	1.76	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Tb	159		96.306			
	Pb	208	88.171				

Method 6020A - Summary Report

Sample ID: QC Std 13

Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\QC Std 13.009
Calibration File:
Sample Date/Time: Wednesday, August 31, 2016 09:07:12
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Tb	159	241019.969	241019.969	0.755			ug/L
	Pb	208	702.094	0.001	3.481	0.01477	9.11	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Tb	159		100.240			
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 14

Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\QC Std 14.010
Calibration File:
Sample Date/Time: Wednesday, August 31, 2016 09:08:07
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Tb	159	236271.748	236271.748	3.825			ug/L
	Pb	208	551.673	0.000	7.468	0.00515	36.59	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Tb	159		98.265			
	Pb	208					

Method 6020A - Summary Report

Sample ID: L1625234-01-T-D10

Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\L1625234-01-T-D10.011
Calibration File:
Sample Date/Time: Wednesday, August 31, 2016 09:13:06
Batch ID: WG925961
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
⌈>	Tb	159	252718.428	252718.428	0.869			ug/L
⌊	Pb	208	93853.888	0.369	3.173	6.13928	2.43	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈>	Tb	159		105.105			
⌊	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925961-3-T-D10

Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\WG925961-3-T-D10.012
Calibration File:
Sample Date/Time: Wednesday, August 31, 2016 09:13:58
Batch ID: WG925961
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Tb	159	257559.366	257559.366	3.618			ug/L
	Pb	208	94670.633	0.366	0.981	6.08061	2.69	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Tb	159		107.119			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925961-4-T-D10

Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\WG925961-4-T-D10.013
Calibration File:
Sample Date/Time: Wednesday, August 31, 2016 09:14:49
Batch ID: WG925961
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Tb	159	256917.056	256917.056	2.505			ug/L
	Pb	208	6577827.782	25.602	2.838	425.59704	1.77	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Tb	159		106.852			
	Pb	208					

Method 6020A - Summary Report

Sample ID: WG925961-5-T-D10

Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\WG925961-5-T-D10.014
Calibration File:
Sample Date/Time: Wednesday, August 31, 2016 09:15:40
Batch ID: WG925961
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Tb	159	248168.773	248168.773	3.082			ug/L
	Pb	208	6279276.754	25.322	1.073	420.93789	4.08	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Tb	159		103.213			
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 5

Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\QC Std 5.015
Calibration File:
Sample Date/Time: Wednesday, August 31, 2016 09:16:33
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Tb	159	236980.611	236980.611	1.256			ug/L
	Pb	208	731597.600	3.085	1.644	51.28612	1.03	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Tb	159		98.560			
	Pb	208	102.572				

Method 6020A - Summary Report

Sample ID: QC Std 6

Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\QC Std 6.016
Calibration File:
Sample Date/Time: Wednesday, August 31, 2016 09:17:26
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Tb	159	235547.854	235547.854	3.192			ug/L
	Pb	208	617.508	0.001	3.441	0.00999	28.08	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Tb	159		97.964			
	Pb	208					

Method 6020A - Summary Report

Sample ID: QC Std 9

Method File: C:\Elandata\Method\6020_pb.mth
Dataset File: C:\Elandata\DataSet\wg927615\QC Std 9.017
Calibration File:
Sample Date/Time: Wednesday, August 31, 2016 09:20:08
Batch ID:
Operator ID:DB

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Meas. Intens. RSD	Conc. Mean	Conc. RSD	Sample Unit
>	Tb	159	235524.554	235524.554	4.681			ug/L
	Pb	208	3212.309	0.012	2.261	0.19350	7.17	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Tb	159		97.954			
	Pb	208	96.748				

Sample Preparation

METALS ELN REPORT

Workgroup: WG925961

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Srm Spikelot	Use Srm For Lcs	Use Srm For	Use Srm For	Use Srm For
EPA 3050B	1:1 HNO3	MS071116A	HNO3	MS050916A	METALS	A2METSPIKE	CM-4707	A2METSPIKE	NA	D089-540	Y	WHG-24		

Additional Reagent/Std	H2O2	MS010616A

Sample/ Type	Digestion Date	Analyst	Sample Weight **g**	Balance Id	Spike Amt **ml**	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	**Comments**
WG925961-1 BLANK	08/25/16 14:10	Lauren Connolly	1	14621306		08/25/16 14:10	2	95	08/26/16 15:45	50	5mL 1:1 HNO3; 3.5mL H2O2
WG925961-2 LCS	08/25/16 14:10	Lauren Connolly	1.2	14621306	1.2	08/25/16 14:10	2	95	08/26/16 15:45	50	5mL 1:1 HNO3; 3.5mL H2O2
WG925961-3 DUP	08/25/16 14:10	Lauren Connolly	1.93	14621306		08/25/16 14:10	2	95	08/26/16 15:45	50	5mL 1:1 HNO3; 3.5mL H2O2
WG925961-4 MS	08/25/16 14:10	Lauren Connolly	1.77	14621306	1	08/25/16 14:10	2	95	08/26/16 15:45	50	5mL 1:1 HNO3; 3.5mL H2O2
WG925961-5 MSD	08/25/16 14:10	Lauren Connolly	1.61	14621306	1	08/25/16 14:10	2	95	08/26/16 15:45	50	5mL 1:1 HNO3; 3.5mL H2O2
WG925961-6 MS	08/25/16 14:10	Lauren Connolly	1.94	14621306	1	08/25/16 14:10	2	95	08/26/16 15:45	50	5mL 1:1 HNO3; 3.5mL H2O2
WG925961-7 MSD	08/25/16 14:10	Lauren Connolly	1.93	14621306	1	08/25/16 14:10	2	95	08/26/16 15:45	50	5mL 1:1 HNO3; 3.5mL H2O2
WG925961-8 SERDIL	08/25/16 14:10	Lauren Connolly	1.86	14621306		08/25/16 14:10	2	95	08/26/16 15:45	50	5mL 1:1 HNO3; 3.5mL H2O2
L1625234-01 SOIL	08/25/16 14:10	Lauren Connolly	1.93	14621306		08/25/16 14:10	2	95	08/26/16 15:45	50	5mL 1:1 HNO3; 3.5mL H2O2
L1625234-02 SOIL	08/25/16 14:10	Lauren Connolly	1.86	14621306		08/25/16 14:10	2	95	08/26/16 15:45	50	5mL 1:1 HNO3; 3.5mL H2O2

Reported: 12-SEP-16 04:06 PM

METALS ELN REPORT

Workgroup: WG925961

Reagent	Actual Volume	Units
Nitric Acid (HNO3)	5	ml
Hydrochloric Acid (HCl)	0	ml

Reported: 12-SEP-16 04:06 PM

METALS ELN REPORT

Workgroup: WG925955

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Srm Spikelot	Use Srm For Lcs	Use Srm For	Use Srm For	Use Srm For
EPA 3050B	HCl	MS07516A	HNO3	MS050916A	METALS	S3SPIKE	MW071316S3	A2METSPIKE	NA	D089-540	Y	WHG-24		

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Sample Weight g	Balance Id	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG925955-1 BLANK	08/25/16 14:10	Lauren Connolly	1	14621306		08/25/16 14:10	1	95	08/26/16 08:00	50	
WG925955-2 LCS	08/25/16 14:10	Lauren Connolly	1.13	14621306	1.13	08/25/16 14:10	1	95	08/26/16 08:00	50	
WG925955-3 DUP	08/25/16 14:10	Lauren Connolly	2	14621306		08/25/16 14:10	1	95	08/26/16 08:00	50	
WG925955-4 MS	08/25/16 14:10	Lauren Connolly	1.8	14621306	.8	08/25/16 14:10	1	95	08/26/16 08:00	50	
WG925955-5 MSD	08/25/16 14:10	Lauren Connolly	1.92	14621306	.8	08/25/16 14:10	1	95	08/26/16 08:00	50	
WG925955-6 MS	08/25/16 14:10	Lauren Connolly	1.74	14621306	.8	08/25/16 14:10	1	95	08/26/16 08:00	50	
WG925955-7 MSD	08/25/16 14:10	Lauren Connolly	1.89	14621306	.8	08/25/16 14:10	1	95	08/26/16 08:00	50	
L1625234-01 SOIL	08/25/16 14:10	Lauren Connolly	1.64	14621306		08/25/16 14:10	1	95	08/26/16 08:00	50	
L1625234-02 SOIL	08/25/16 14:10	Lauren Connolly	1.55	14621306		08/25/16 14:10	1	95	08/26/16 08:00	50	

Reagent	Actual Volume	Units
Nitric Acid (HNO3)	2.5	ml
Hydrochloric Acid (HCl)	7.5	ml

Reported: 12-SEP-16 04:06 PM

True Values

Table IV: Initial Calibration Levels and ICV/CCV Concentrations

Analyte	STD1	STD2	ICV,CCV
	(µg/L)	(µg/L)	(µg/L)
Ag		100	50
Al	10050		5050
As	100		50
B	100		50
Ba		100	50
Be	100		50
Ca	10100		5050
Cd	100		50
Co	100		50
Cr	100		50
Cu	100		50
Fe	10100		5050
K	10000		5500
Mg	10100		5050
Mn	100		50
Mo	100		50
Na	10000		5050
Ni	100		50
Pb	100		50
Sb	100		50
Se	100		50
Si	50		25
Sn	100		50
Sr	100		50
Ti	100		50
Tl	100		50
V	100		50
Zn	100		50
W	1	100	50

Interferent ICSA, ICSAB	(mg/L)
Cl^-	2000
Ca	300
Fe, Na	250
Al, Mg, P, K, S	100
C	200
Mo, Ti	2

All analyte concentrations in ICSAB = 100 ppb except for Ag and Ba = 50 ppb

Table IV: Initial Calibration Levels and ICV/CCV Concentrations (MCP)

Analyte	STD1	STD2	STD3	STD4	STD5	ICV,CCV
			(µg/L)	(µg/L)		(µg/L)
Ag	0.2		10		100	50
Al	10	10000		20000		10100
As	0.5	100		1000		100
B	1	100		1000		100
Ba	1	100		1000		100
Be	0.3	100		1000		100
Ca	100	10000		20000		10100
Cd	0.2	100		1000		100
Co	0.2	100		1000		100
Cr	0.5	100		1000		100
Cu	0.5	100		1000		100
Fe	10	10000		20000		10100
K	100	10000		20000		11000
Mg	100	10000		20000		10100
Mn	10	100		1000		100
Mo	1	100		1000		100
Na	100	10000		20000		10100
Ni	0.5	100		1000		100
Pb	0.2	100		1000		100
Sb	0.5	10		100		50
Se	1	100		1000		100
Si	10	100		1000		25
Sn	1	100		1000		100
Sr	5	100		1000		100
Ti	5	100		1000		100
Tl	0.2	100		1000		100
V	5	100		1000		100
Zn	10	100		1000		100
W	5	100		1000		100

Interferent ICSA, ICSAB	(mg/L)
Cl^-	2000
Ca	300
Fe, Na	250
Al, Mg, P, K, S	100
C	200
Mo, Ti	2

All analyte concentrations in ICSAB = 100 ppb except for Ag and Ba = 50 ppb

Analyte	LCS,MS Water	LCS,MS soil	LCS,MS Tissue
	(µg/L)	(µg/L)	(µg/L)
Ag	20	40	40
Al	5000	20000	10000
As	1000	4000	2000
B	1000	4000	2000
Ba	1000	4000	2000
Be	500	2000	1000
Ca	5000	4000	10000
Cd	500	2000	1000
Co	1000	4000	2000
Cr	1000	4000	2000
Cu	1000	4000	2000
Fe	5000	20000	10000
K	5000	20000	10000
Mg	5000	20000	10000
Mn	1000	4000	2000
Mo	1000	4000	2000
Na	5000	20000	10000
Ni	1000	4000	2000
Pb	1000	4000	2000
Sb	20	40	40
Se	1000	4000	2000
Si	1000	4000	2000
Sn	250	1000	500
Sr	1000	4000	2000
Ti	1000	4000	2000
Tl	1000	4000	2000
V	1000	4000	2000
Zn	1000	4000	2000
W	100	200	200

Mercury: ICV, CCV, LCS and MS = 2.5 ppb.
Arsenic Hydride, Selenium Hydride: ICV, CCV, LCS and MS = 5 ppb.
Mercury by Method 1631: ICV,CCV = 0.005 ppb, LCS, MS = 0.005 ppb.

Organics

GC/MS Extractable Analysis
Method 8270

Initial Calibration

Response Factor Report BNA8

Method Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Method File : SV0908BNA8.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Sep 09 16:28:55 2016
Response Via : Initial Calibration

Calibration Files
0.5 =F809081603.D 1 =F809081604.D 2 =F809081605.D 5 =F809081606.D 10 =F809081607.D
15 =F809081608.D 25 =F809081609.D 50 =F809081610.D 0.5a=F809081611.D 1.0a=F809081612.D
2.0a=F809081613.D 5.0a=F809081614.D 10a =F809081615.D 15a =F809081616.D 25a =F809081617.D

		Compound	0.5	1	2	5	10	15	25	50	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
2)	T	N-Nitrosodimet...	0.632	0.617	0.620	0.592	0.617	0.603	0.586	0.535	0.601	5.07
3)	t	Pyridine	1.291	1.225	1.207	1.133	1.154	1.129	1.130	1.105	1.172	5.42
4)	S	2-Fluorophenol	1.308	1.254	1.229	1.198	1.205	1.205	1.150	1.059	1.201	6.13
5)	T	Benzaldehyde	0.911	0.968	0.955	0.962	0.967	0.921	0.879		0.938	3.65
6)	T	Aniline	1.928	1.818	1.810	1.741	1.761	1.745	1.659	1.658	1.765	5.02
7)	T	bis(2-Chloroet...	0.860	0.806	0.791	0.755	0.741	0.728	0.685	0.627	0.749	9.70
8)	S	Phenol-d5	1.567	1.496	1.497	1.449	1.468	1.456	1.396	1.308	1.455	5.30
9)	MC	Phenol	1.657	1.572	1.564	1.506	1.489	1.469	1.384	1.285	1.491	7.78#
10)	M	2-Chlorophenol	1.474	1.398	1.381	1.343	1.359	1.356	1.294	1.205	1.351	5.79
11)	T	1,3-Dichlorobe...	1.681	1.571	1.555	1.495	1.491	1.483	1.388	1.263	1.491	8.37
12)	MC	1,4-Dichlorobe...	1.688	1.585	1.558	1.480	1.471	1.464	1.379	1.241	1.483	9.11#
13)	T	1,2-Dichlorobe...	1.602	1.499	1.479	1.417	1.412	1.399	1.319	1.148	1.409	9.55
14)	T	Benzyl alcohol	0.844	0.816	0.795	0.799	0.823	0.814	0.804	0.733	0.803	4.05
15)	T	bis(2-chlorois...	1.291	1.208	1.171	1.081	1.031	0.985	0.861	0.690	1.040	18.81
16)	T	2-Methylphenol	1.190	1.108	1.109	1.057	1.056	1.032	0.967	0.878	1.050	9.07
17)	T	Acetophenone	1.556	1.607	1.626	1.644	1.667	1.606	1.521		1.604	3.15
18)	T	Hexachloroethane	0.593	0.566	0.555	0.540	0.545	0.544	0.518	0.472	0.542	6.58
19)	MP	N-Nitroso-di-n...	0.805	0.761	0.761	0.732	0.732	0.726	0.697	0.650	0.733	6.29
20)	T	4-Methylphenol	1.268	1.203	1.190	1.138	1.118	1.095	1.052	1.008	1.134	7.48
21)	I	Naphthalene-d8	----------ISTD----------									
22)	S	Nitrobenzene-d5	0.312	0.294	0.300	0.291	0.294	0.294	0.285	0.265	0.292	4.54
23)	T	Nitrobenzene	0.317	0.304	0.302	0.290	0.291	0.290	0.274	0.253	0.290	6.73
24)	T	Isophorone	0.493	0.472	0.480	0.467	0.472	0.478	0.458	0.413	0.467	5.13
25)	TC	2-Nitrophenol	0.188	0.184	0.191	0.190	0.195	0.199	0.191	0.179	0.190	3.39#
26)	T	2,4-Dimethylph...	0.336	0.320	0.316	0.304	0.298	0.298	0.280	0.260	0.302	7.91
27)	T	Benzoic acid				0.020	0.051	0.090	0.129	0.166	*L	0.9932
28)	T	bis(2-Chloroet...	0.374	0.348	0.348	0.339	0.335	0.338	0.321	0.300	0.338	6.33
29)	TC	2,4-Dichloroph...	0.278	0.269	0.277	0.277	0.282	0.286	0.276	0.262	0.276	2.60#

Method Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Method File : SV0908BNA8.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Sep 09 16:28:55 2016
Response Via : Initial Calibration

Calibration Files
0.5 =F809081603.D 1 =F809081604.D 2 =F809081605.D 5 =F809081606.D 10 =F809081607.D
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2.0a=F809081613.D 5.0a=F809081614.D 10a =F809081615.D 15a =F809081616.D 25a =F809081617.D

		Compound	0.5	1	2	5	10	15	25	50	Avg	%RSD
30)	M	1,2,4-Trichlor...	0.336	0.306	0.308	0.297	0.296	0.299	0.287	0.268	0.299	6.49
31)	T	Naphthalene	1.094	1.026	1.008	0.968	0.948	0.942	0.888	0.813	0.961	8.96
32)	T	2-Chloroaniline	0.529	0.510	0.501	0.489	0.486	0.487	0.461	0.413	0.485	7.24
33)	T	4-Chloroaniline	0.453	0.420	0.422	0.415	0.417	0.412	0.399	0.371	0.414	5.61
34)	TC	Hexachlorobuta...	0.165	0.154	0.155	0.151	0.151	0.154	0.148	0.140	0.152	4.51#
35)	T	Caprolactam	0.064	0.075	0.086	0.099	0.101	0.101	0.100		0.089	16.67
36)	MC	4-Chloro-3-met...	0.273	0.260	0.269	0.268	0.268	0.273	0.263	0.251	0.266	2.76#
37)	T	2-Methylnaphth...	0.713	0.679	0.670	0.655	0.653	0.655	0.620	0.571	0.652	6.47
38)	I	Acenaphthene-d10	----------ISTD----------									
39)	T	1,2,4,5-Tetrac...	0.572	0.541	0.532	0.510	0.522	0.520	0.508	0.463	0.521	5.97
40)	TP	Hexachlorocycl...	0.122	0.136	0.163	0.193	0.224	0.238	0.249	0.240	*L	0.9976
41)	TC	2,4,6-Trichlor...	0.340	0.338	0.346	0.360	0.373	0.400	0.424	0.424	0.375	9.58#
42)	T	2,4,5-Trichlor...	0.353	0.328	0.344	0.341	0.340	0.341	0.340	0.283	0.334	6.51
43)	S	2-Fluorobiphenyl	1.418	1.317	1.295	1.257	1.255	1.237	1.216	1.097	1.262	7.24
44)	T	Biphenyl	1.427	1.484	1.480	1.475	1.510	1.413	1.313		1.443	4.63
45)	T	2-Chloronaphth...	1.255	1.181	1.160	1.117	1.128	1.116	1.087	0.988	1.129	6.84
46)	T	2-Nitroaniline	0.267	0.251	0.257	0.263	0.260	0.270	0.268	0.252	0.261	2.79
47)	T	Acenaphthylene	2.045	1.940	1.928	1.869	1.870	1.851	1.790	1.640	1.867	6.36
48)	T	Dimethylphthalate	1.317	1.218	1.214	1.178	1.187	1.220	1.223	1.159	1.214	3.91
49)	T	2,6-Dinitrotol...	0.256	0.257	0.272	0.274	0.288	0.298	0.305	0.307	0.282	7.23
50)	MC	Acenaphthene	1.298	1.193	1.183	1.124	1.117	1.111	1.079	0.980	1.136	8.18#
51)	T	3-Nitroaniline	0.316	0.305	0.321	0.318	0.325	0.336	0.340	0.322	0.323	3.47
52)	TP	2,4-Dinitrophenol			0.033	0.085	0.127	0.158	0.183	0.191	*Q	0.9913
53)	T	Dibenzofuran	1.708	1.551	1.548	1.474	1.442	1.460	1.409	1.271	1.483	8.53
54)		2,3,4,6-Tetrac...	0.177	0.177	0.197	0.223	0.238	0.258	0.266	0.263	0.225	16.53
55)	M	2,4-Dinitrotol...	0.325	0.338	0.356	0.365	0.385	0.392	0.386	0.349	0.362	6.75
56)	MP	4-Nitrophenol	0.089	0.095	0.108	0.123	0.137	0.141	0.148	0.137	0.122	18.42
57)	T	Fluorene	1.390	1.274	1.280	1.222	1.189	1.204	1.157	1.056	1.221	8.05
58)	T	4-Chlorophenyl...	0.617	0.577	0.571	0.543	0.528	0.537	0.525	0.477	0.547	7.69
59)	T	Diethylphthalate	1.311	1.257	1.244	1.223	1.252	1.267	1.262	1.115	1.241	4.56

Response Factor Report BNA8

Method Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Method File : SV0908BNA8.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Sep 09 16:28:55 2016
Response Via : Initial Calibration

Calibration Files
0.5 =F809081603.D 1 =F809081604.D 2 =F809081605.D 5 =F809081606.D 10 =F809081607.D
15 =F809081608.D 25 =F809081609.D 50 =F809081610.D 0.5a=F809081611.D 1.0a=F809081612.D
2.0a=F809081613.D 5.0a=F809081614.D 10a =F809081615.D 15a =F809081616.D 25a =F809081617.D

		Compound	0.5	1	2	5	10	15	25	50	Avg	%RSD
60)	T	4-Nitroaniline	0.319	0.323	0.326	0.339	0.345	0.345	0.347	0.323	0.333	3.48
61)	I	Phenanthrene-d10	----------ISTD----------									
62)	T	4,6-Dinitro-2-...			0.061	0.089	0.111	0.121	0.123	0.130	*L	0.9990
63)	T	Azobenzene	0.211	0.212	0.209	0.205	0.202	0.203	0.193	0.186	0.203	4.43
64)	TC	n-Nitrosodiphe...	0.589	0.565	0.558	0.538	0.520	0.514	0.498	0.468	0.531	7.39#
65)	S	2,4,6-Tribromo...	0.063	0.066	0.070	0.074	0.076	0.079	0.079	0.080	0.074	8.64
66)	T	4-Bromophenyl-...	0.195	0.184	0.186	0.184	0.184	0.188	0.183	0.181	0.186	2.23
67)	T	Hexachlorobenzene	0.209	0.198	0.195	0.189	0.190	0.193	0.189	0.189	0.194	3.57
68)	T	Atrazine	0.175	0.191	0.199	0.214	0.221	0.223	0.213		0.205	8.53
69)	MC	Pentachlorophenol			0.036	0.070	0.094	0.109	0.122	0.131	*L	0.9956
70)	T	Pentachloronit...	0.066	0.071	0.075	0.078	0.082	0.084	0.082	0.080	0.077	8.10
71)	T	Phenanthrene	1.206	1.142	1.112	1.083	1.063	1.080	1.029	0.981	1.087	6.33
72)	T	Anthracene	1.161	1.131	1.128	1.088	1.065	1.068	0.991	0.959	1.074	6.52
73)	T	Carbazole	1.125	1.098	1.094	1.064	1.047	0.993	0.929	0.900	1.031	8.00
74)	T	Di-n-butylphth...	1.240	1.264	1.296	1.290	1.275	1.272	1.197	1.146	1.247	4.13
75)	TC	Fluoranthene	1.218	1.179	1.178	1.151	1.143	1.096	1.025	1.001	1.124	6.87#
76)	I	Chrysene-d12	----------ISTD----------									
77)	T	Benzidine		0.615	0.723	0.819	0.898	0.964	0.935		0.826	16.39
78)	M	Pyrene	1.327	1.261	1.276	1.235	1.246	1.266	1.216	1.156	1.248	3.97
79)	S	Terphenyl-d14	0.831	0.792	0.801	0.774	0.781	0.785	0.760	0.733	0.782	3.68
80)	T	Butylbenzylpht...	0.562	0.560	0.597	0.622	0.649	0.652	0.639	0.618	0.612	5.95
81)	T	3,3'-Dichlorob...	0.337	0.368	0.390	0.421	0.453	0.450	0.448		0.410	11.18
82)	T	Benz[a]anthracene	1.196	1.134	1.138	1.150	1.189	1.223	1.222	1.212	1.183	3.14
83)	T	Chrysene	1.225	1.168	1.140	1.091	1.097	1.076	1.036	0.954	1.098	7.52
84)	T	bis(2-Ethylhex...	0.709	0.732	0.785	0.829	0.868	0.873	0.851	0.799	0.806	7.60
85)	I	Perylene-d12	----------ISTD----------									
86)	TC	Di-n-octylphth...		1.310	1.520	1.658	1.730	1.694	1.641	1.566	1.588	8.96#
87)	T	Benzo[b]fluora...	1.155	1.121	1.167	1.245	1.246	1.272	1.237	1.325	1.221	5.55

Response Factor Report BNA8

Method Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Method File : SV0908BNA8.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Sep 09 16:28:55 2016
Response Via : Initial Calibration

Calibration Files
0.5 =F809081603.D 1 =F809081604.D 2 =F809081605.D 5 =F809081606.D 10 =F809081607.D
15 =F809081608.D 25 =F809081609.D 50 =F809081610.D 0.5a=F809081611.D 1.0a=F809081612.D
2.0a=F809081613.D 5.0a=F809081614.D 10a =F809081615.D 15a =F809081616.D 25a =F809081617.D

	Compound	0.5	1	2	5	10	15	25	50	Avg	%RSD
88) T	Benzo[k]fluora...	1.214	1.141	1.213	1.136	1.191	1.080	1.059	0.894	1.116	9.56
89) TC	Benzo[a]pyrene	1.163	1.088	1.193	1.174	1.189	1.169	1.141	1.085	1.150	3.70#
90) T	Indeno[1,2,3-c...	0.885	0.875	0.943	1.008	1.034	1.067	1.067	1.121	1.000	9.01
91) T	Dibenz[a,h]ant...	0.968	0.891	0.954	1.060	1.089	1.084	1.017	0.998	1.008	6.86
92) T	Benzo[g,h,i]pe...	1.073	1.058	1.096	1.102	1.129	1.086	1.081	1.029	1.082	2.76

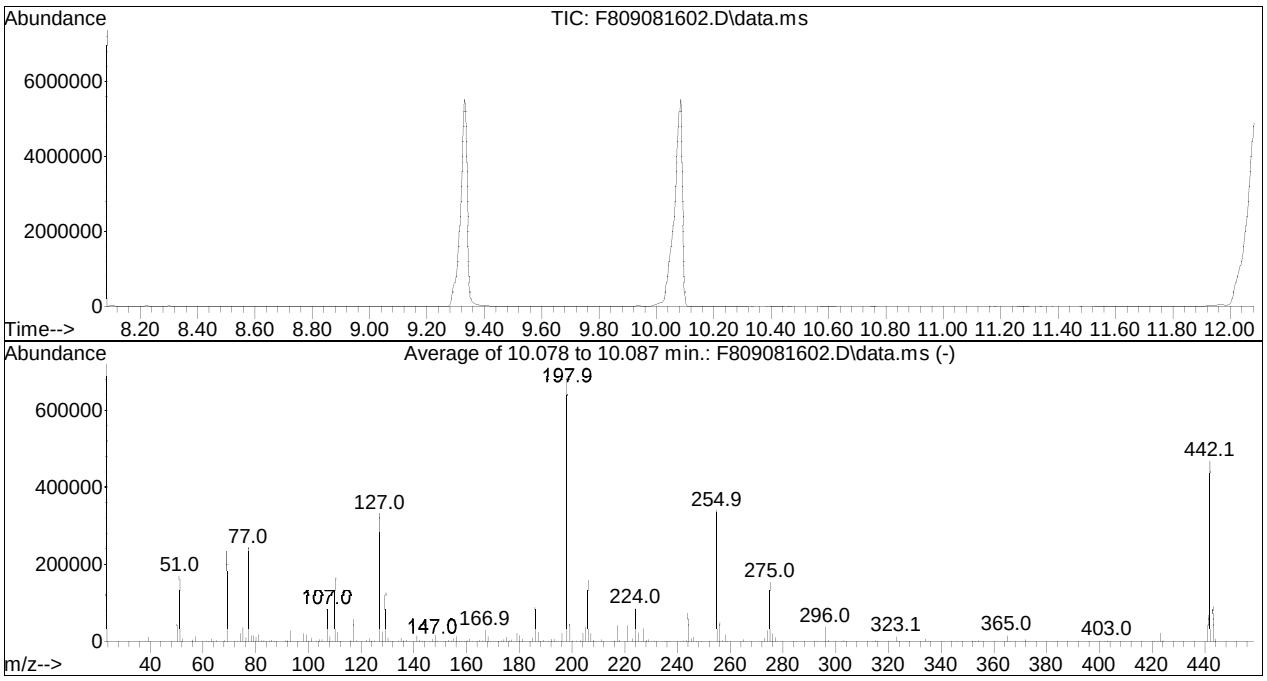
(#) = Out of Range

DFTPP

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081602.D
Acq On : 8 Sep 2016 7:02 pm
Operator : BNA8:ML
Sample : T809081601
Misc : WG930406,MSAK38
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\DFTPPBNA8.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Apr 30 16:06:20 2015



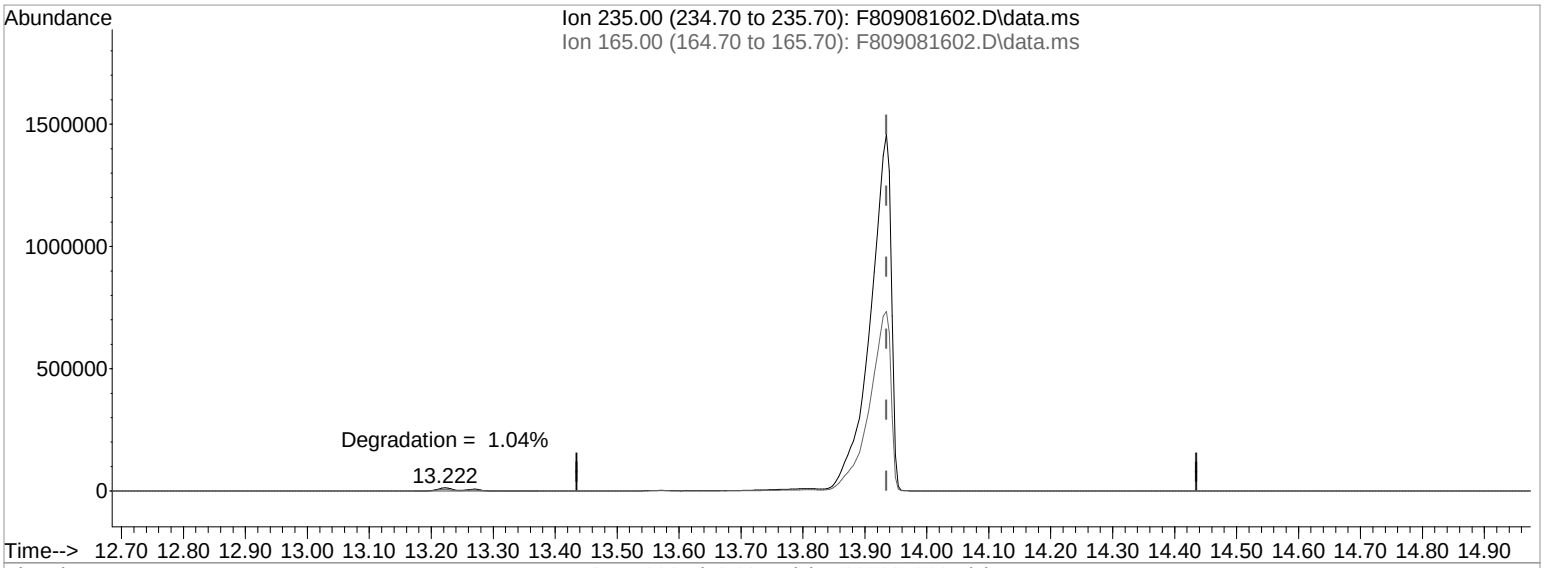
Spectrum Information: Average of 10.078 to 10.087 min.

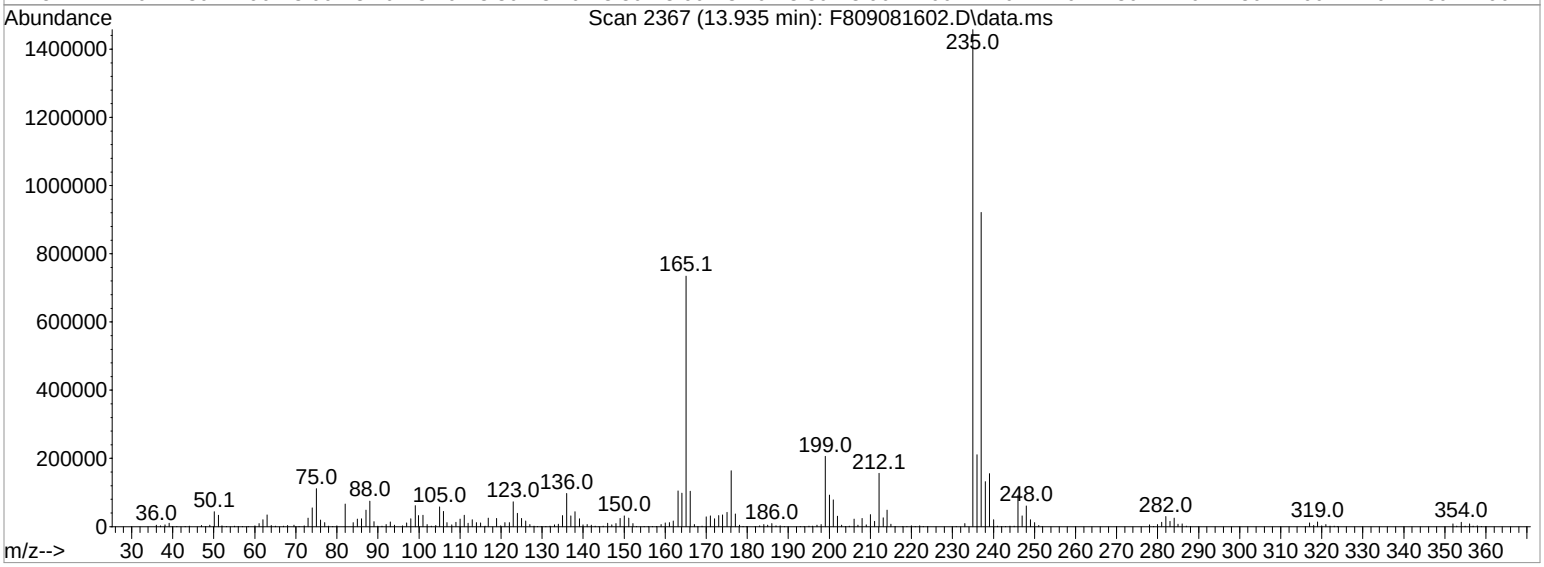
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	24.6	168629	PASS
68	69	0.00	2	1.6	3747	PASS
70	69	0.00	2	0.5	1147	PASS
127	198	10	80	48.6	332423	PASS
197	198	0.00	2	0.2	1278	PASS
198	198	100	100	100.0	684375	PASS
199	198	5	9	6.7	45979	PASS
275	198	10	60	22.4	153580	PASS
365	198	1	100	2.2	15108	PASS
441	442	0.01	24	14.2	66464	PASS
442	198	50	100	68.3	467563	PASS
443	442	15	24	19.6	91429	PASS

Quantitation Report (Qedit)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081602.D
Acq On : 8 Sep 2016 7:02 pm
Operator : BNA8:ML
Sample : T809081601
Misc : WG930406,MSAK38
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 09 11:20:16 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\DFTPPBNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:20:13 2016
Response via : Initial Calibration





CHROMtools™ [T809081601]

(4) DDT ( )

13.935min (0.000) 0.00

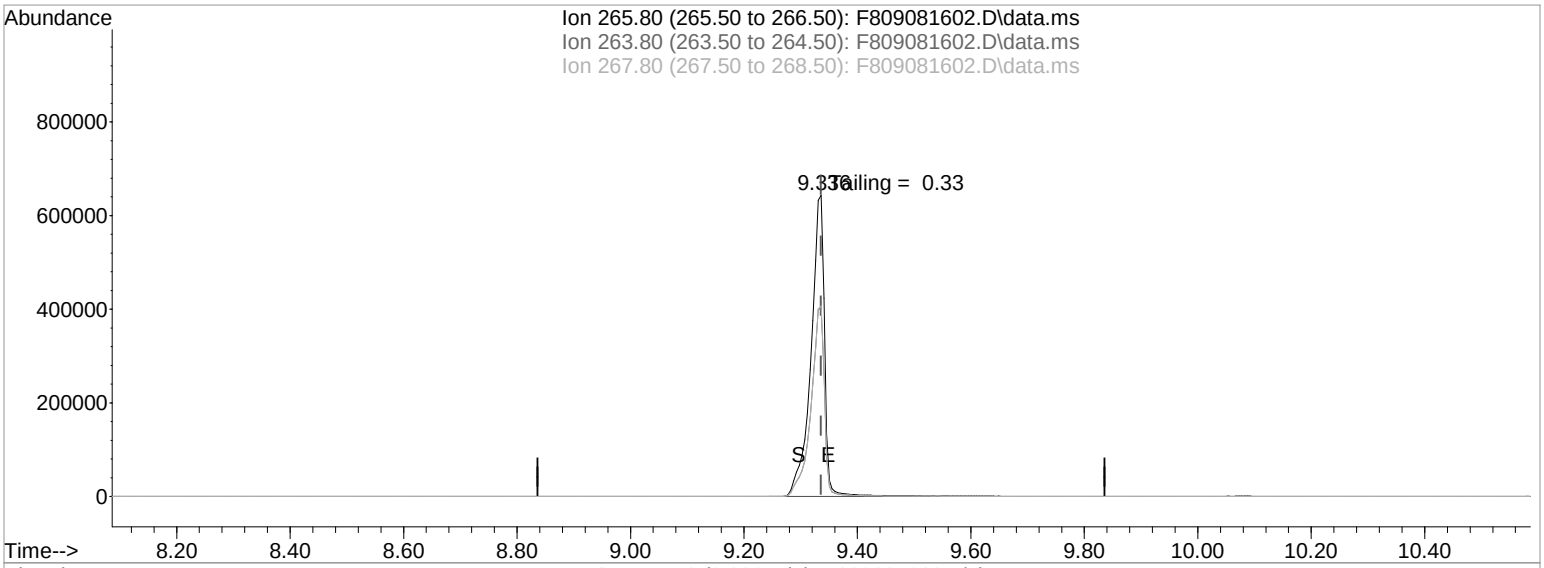
response 3418719

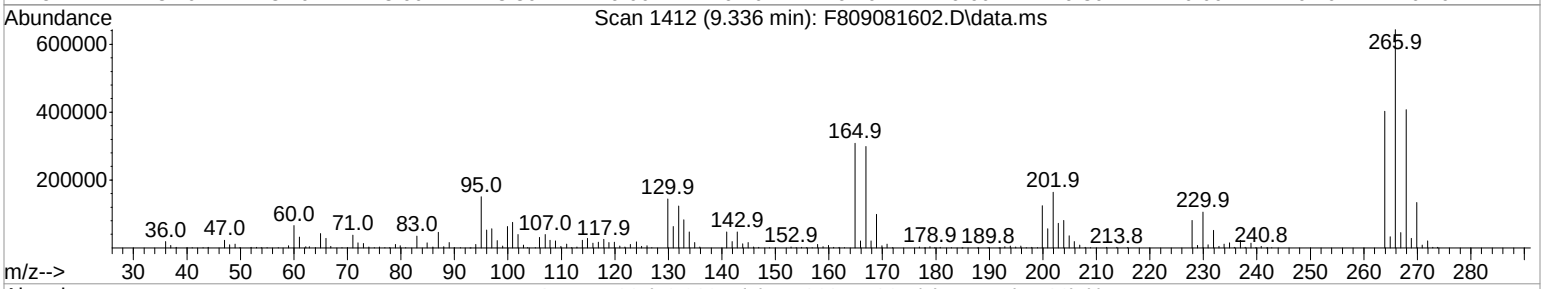
Ion	Exp%	Act%
235.00	100	100
165.00	50.40	50.99
0.00	0.00	0.00
0.00	0.00	0.00

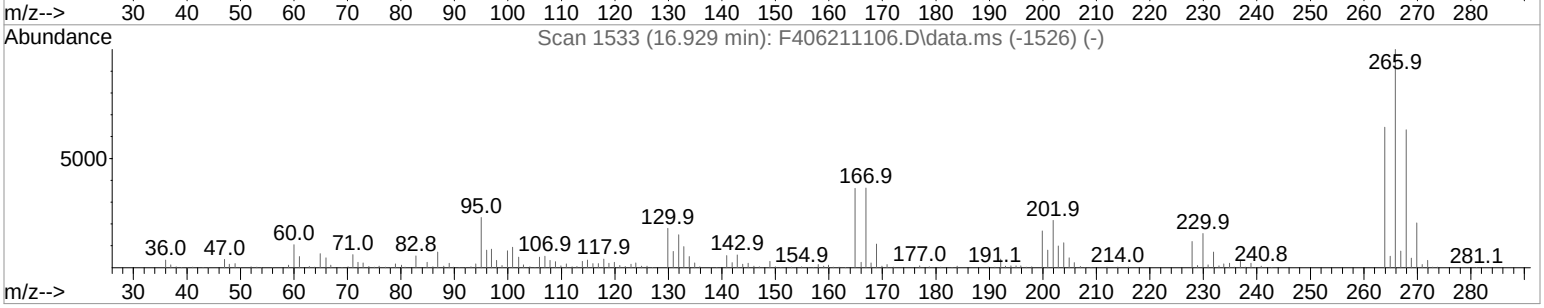
Quantitation Report (Qedit)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081602.D
Acq On : 8 Sep 2016 7:02 pm
Operator : BNA8:ML
Sample : T809081601
Misc : WG930406,MSAK38
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 09 11:20:16 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\DFTPPBNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:20:13 2016
Response via : Initial Calibration







CHROMtools™ [T809081601]

(1) Pentachlorophenol (MC)

9.336min (0.000) 20.20 ug/mL

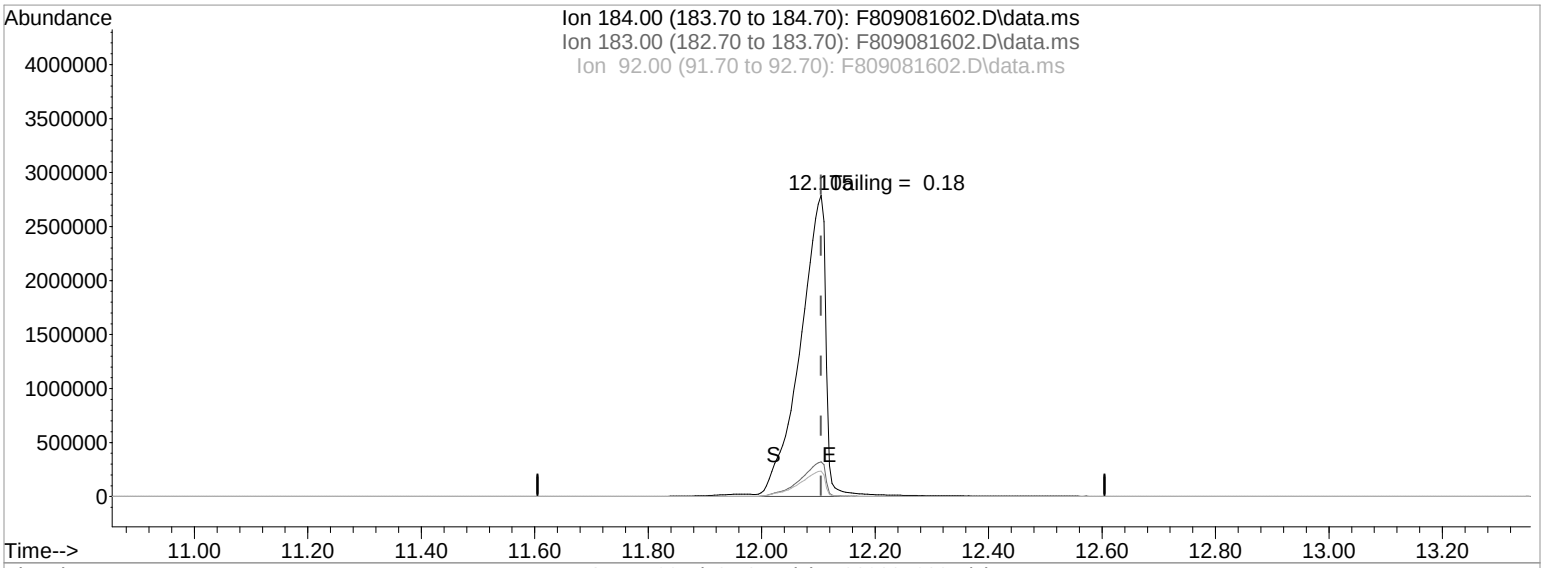
response 1057553

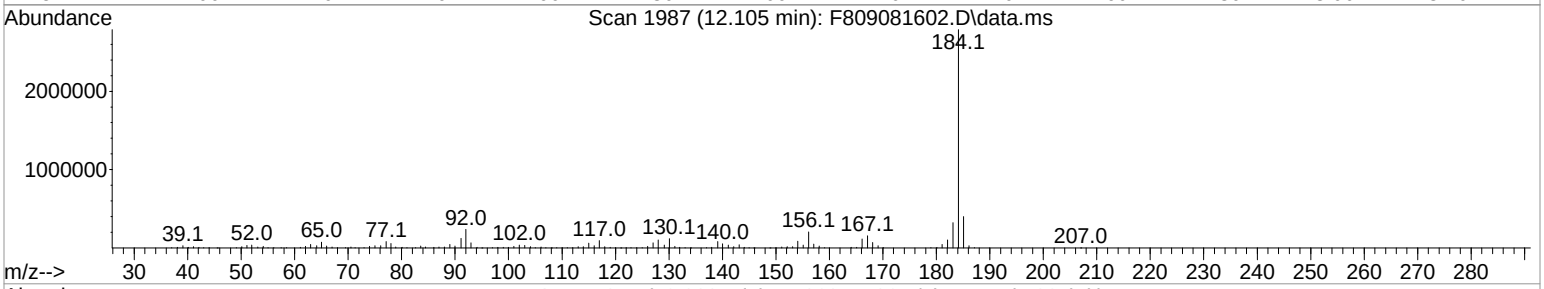
Ion	Exp%	Act%
265.80	100	100
263.80	62.50	63.22
267.80	63.30	63.51
0.00	0.00	0.00

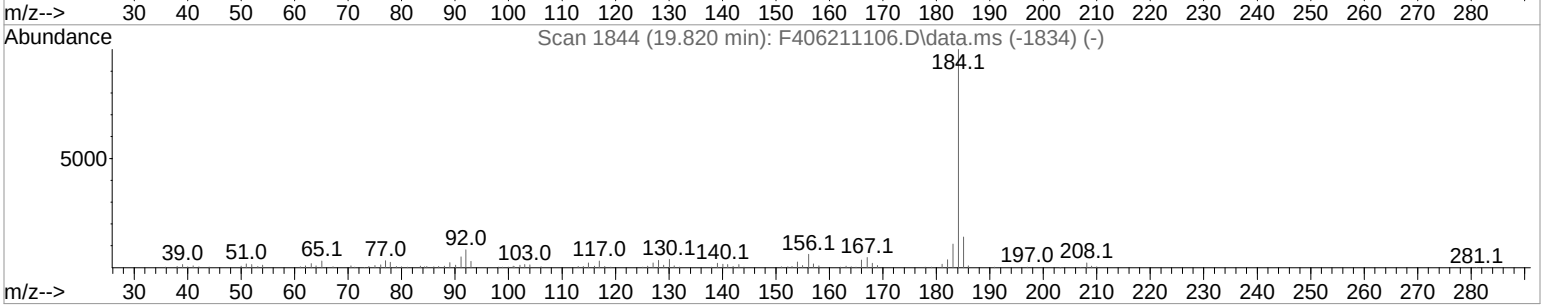
Quantitation Report (Qedit)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081602.D
Acq On : 8 Sep 2016 7:02 pm
Operator : BNA8:ML
Sample : T809081601
Misc : WG930406,MSAK38
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 09 11:20:16 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\DFTPPBNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:20:13 2016
Response via : Initial Calibration







CHROMtools™ [T809081601]

(3) Benzidine (T)

12.105min (0.000) 105.97 ug/mL

response 8622013 ~5 x >CAL (25)

Ion	Exp%	Act%
184.00	100	100
183.00	11.50	11.21
92.00	8.40	8.51
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081603.D
Acq On : 8 Sep 2016 7:35 pm
Operator : BNA8:ML
Sample : I809081601
Misc : WG930406,MSAK70
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 11:12:42 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:12:43 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	234335	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	898882	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	481468	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	773752	5.000	ug/mL	0.00
76) Chrysene-d12	14.917	240	722186	5.000	ug/mL	0.00
85) Perylene-d12	17.999	264	661869	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.832	112	30646	0.545	ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 2.73%#			
8) Phenol-d5	4.545	99	36730	0.539	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 2.70%#			
22) Nitrobenzene-d5	5.373	82	28004M4	0.534	ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 2.67%#			
43) 2-Fluorobiphenyl	7.073	172	68279	0.562	ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 2.81%#			
65) 2,4,6-Tribromophenol	8.643	330	4881	0.429	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 2.15%#			
79) Terphenyl-d14	12.572	244	59987	0.531	ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 2.66%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.927	74	14821	0.527	ug/mL#	98
3) Pyridine	2.960	79	30262	0.551	ug/mL	99
5) Benzaldehyde	0.000		0	N.D.	d	
6) Aniline	4.598	93	45170	0.547	ug/ml	98
7) bis(2-Chloroethyl)ether	4.636	63	20159	0.571	ug/mL	98
9) Phenol	4.559	94	38824	0.552	ug/mL#	89
10) 2-Chlorophenol	4.699	128	34532	0.545	ug/mL	97
11) 1,3-Dichlorobenzene	4.829	146	39390	0.564	ug/mL	99
12) 1,4-Dichlorobenzene	4.891	146	39549M4	0.569	ug/mL	
13) 1,2-Dichlorobenzene	5.026	146	37545	0.568	ug/mL	99
14) Benzyl alcohol	4.993	108	19768	0.525	ug/mL	97
15) bis(2-chloroisopropyl)eth	5.103	45	30254	0.621	ug/mL#	21
16) 2-Methylphenol	5.084	108	27894M4	0.567	ug/mL	
17) Acetophenone	0.000		0	N.D.		
18) Hexachloroethane	5.330	117	13901	0.548	ug/mL	93
19) N-Nitroso-di-n-propylamin	5.224	70	18854	0.549	ug/mL#	93
20) 4-Methylphenol	5.219	108	29722	0.559	ug/mL	99

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081603.D
Acq On : 8 Sep 2016 7:35 pm
Operator : BNA8:ML
Sample : I809081601
Misc : WG930406,MSAK70
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 11:12:42 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:12:43 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
23) Nitrobenzene	5.387	77	28481	0.546 ug/mL	99
24) Isophorone	5.604	82	44280	0.528 ug/mL	98
25) 2-Nitrophenol	5.681	139	16868	0.495 ug/mL	93
26) 2,4-Dimethylphenol	5.710	107	30235	0.558 ug/mL	95
27) Benzoic acid	0.000		0	N.D.	
28) bis(2-Chloroethoxy)methan	5.801	93	33623	0.553 ug/mL	98
29) 2,4-Dichlorophenol	5.907	162	25018	0.504 ug/mL	99
30) 1,2,4-Trichlorobenzene	5.984	180	30191	0.561 ug/mL	99
31) Naphthalene	6.062	128	98293	0.569 ug/mL	100
32) 2-Chloroaniline	5.647	127	47526	0.546 ug/ml	99
33) 4-Chloroaniline	6.110	127	40734M4	0.548 ug/mL	
34) Hexachlorobutadiene	6.172	225	14789	0.540 ug/mL	98
35) Caprolactam	0.000		0	N.D.	
36) 4-Chloro-3-methylphenol	6.572	107	24511	0.513 ug/mL	99
37) 2-Methylnaphthalene	6.721	142	64090	0.547 ug/mL	99
39) 1,2,4,5-Tetrachlorobenzen	6.880	216	27533	0.549 ug/mL	100
40) Hexachlorocyclopentadiene	6.870	237	5870	0.645 ug/mL#	90
41) 2,4,6-Trichlorophenol	6.996	196	16359	0.453 ug/mL	98
42) 2,4,5-Trichlorophenol	7.034	196	16990M4	0.525 ug/mL	
44) Biphenyl	0.000		0	N.D.	
45) 2-Chloronaphthalene	7.193	162	60425	0.556 ug/mL	98
46) 2-Nitroaniline	7.299	65	12843	0.511 ug/mL	92
47) Acenaphthylene	7.602	152	98480	0.548 ug/mL	98
48) Dimethylphthalate	7.468	163	63425	0.542 ug/mL	99
49) 2,6-Dinitrotoluene	7.530	165	12320	0.454 ug/mL	96
50) Acenaphthene	7.781	153	62506	0.572 ug/mL	100
51) 3-Nitroaniline	7.708	138	15195	0.489 ug/mL	97
52) 2,4-Dinitrophenol	0.000		0	N.D.	
53) Dibenzofuran	7.964	168	82220	0.576 ug/mL	99
54) 2,3,4,6-Tetrachlorophenol	8.098	232	8531	0.394 ug/mL	94
55) 2,4-Dinitrotoluene	7.949	165	15625	0.448 ug/mL#	70
56) 4-Nitrophenol	7.891	109	4283	0.366 ug/mL	97
57) Fluorene	8.349	166	66941	0.569 ug/mL	99
58) 4-Chlorophenyl-phenylethe	8.344	204	29723	0.564 ug/mL	99
59) Diethylphthalate	8.209	149	63123	0.528 ug/mL	99
60) 4-Nitroaniline	8.373	138	15374	0.479 ug/mL	94
62) 4,6-Dinitro-2-methylpheno	0.000		0	N.D. d	
63) Azobenzene	8.537	182	16358	0.521 ug/mL	93
64) n-Nitrosodiphenylamine	8.488	169	45565	0.554 ug/mL	98
66) 4-Bromophenyl-phenylether	8.960	248	15066	0.525 ug/mL	96
67) Hexachlorobenzene	9.033	284	16198	0.540 ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081603.D
Acq On : 8 Sep 2016 7:35 pm
Operator : BNA8:ML
Sample : I809081601
Misc : WG930406,MSAK70
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 11:12:42 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:12:43 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
68) Atrazine	0.000		0	N.D.	
69) Pentachlorophenol	0.000		0	N.D. d	
70) Pentachloronitrobenzene	9.326	237	5105	0.427 ug/ml	96
71) Phenanthrene	9.630	178	93330	0.557 ug/mL	99
72) Anthracene	9.707	178	89866M4	0.542 ug/mL	
73) Carbazole	9.972	167	87072	0.546 ug/mL	99
74) Di-n-butylphthalate	10.593	149	95925	0.497 ug/mL	99
75) Fluoranthene	11.720	202	94266	0.542 ug/mL	97
77) Benzidine	0.000		0	N.D. d	
78) Pyrene	12.172	202	95849	0.532 ug/mL	98
80) Butylbenzylphthalate	13.766	149	40559	0.459 ug/mL	98
81) 3,3'-Dichlorobenzidine	0.000		0	N.D.	
82) Benz[a]anthracene	14.898	228	86398M6	0.507 ug/mL	
83) Chrysene	14.970	228	88495M4	0.558 ug/mL	
84) bis(2-Ethylhexyl)phthalat	15.230	149	51226	0.440 ug/mL	100
86) Di-n-octylphthalate	16.727	149	83072	0.395 ug/mL	99
87) Benzo[b]fluoranthene	17.257	252	76415M6	0.473 ug/mL	
88) Benzo[k]fluoranthene	17.315	252	80345M4	0.544 ug/mL	
89) Benzo[a]pyrene	17.878	252	76984	0.506 ug/mL	99
90) Indeno[1,2,3-cd]pyrene	19.804	276	58580M6	0.442 ug/mL	
91) Dibenz[a,h]anthracene	19.857	278	64080M4	0.480 ug/mL	
92) Benzo[g,h,i]perylene	20.247	276	70987	0.496 ug/mL	99

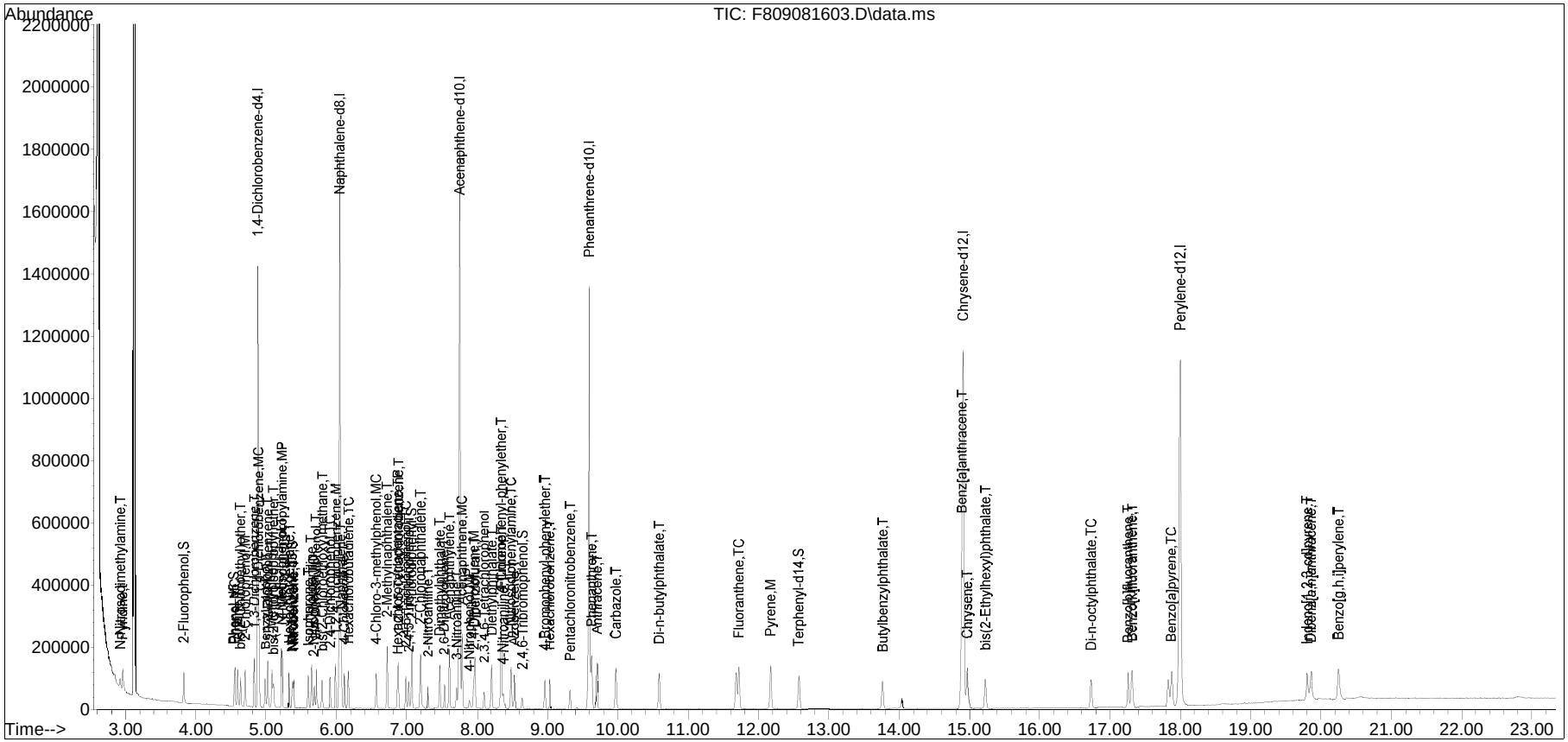
(#) = qualifier out of range (m) = manual integration (+) = signals summed

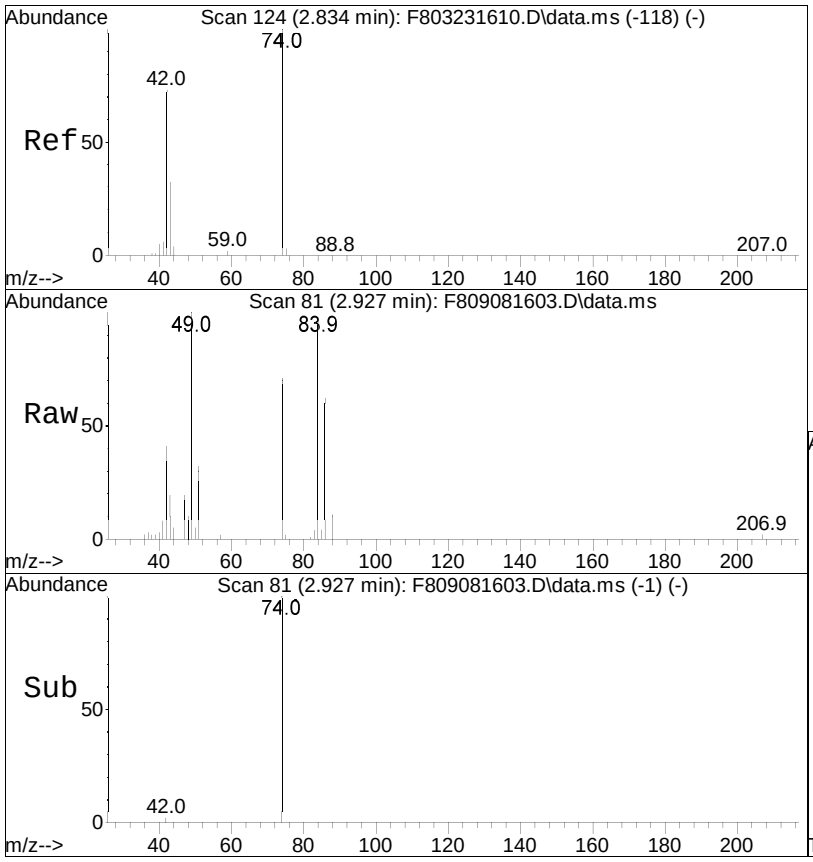
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081603.D
Acq On : 8 Sep 2016 7:35 pm
Operator : BNA8:ML
Sample : I809081601
Misc : WG930406,MSAK70
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 11:12:42 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:12:43 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

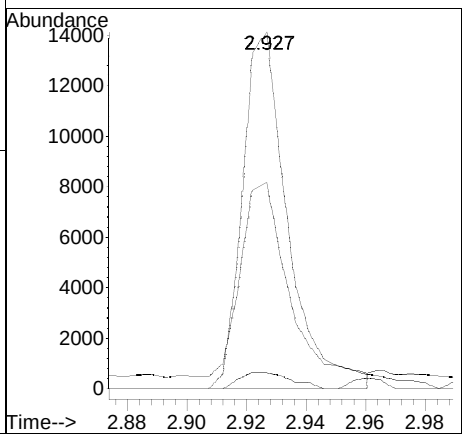


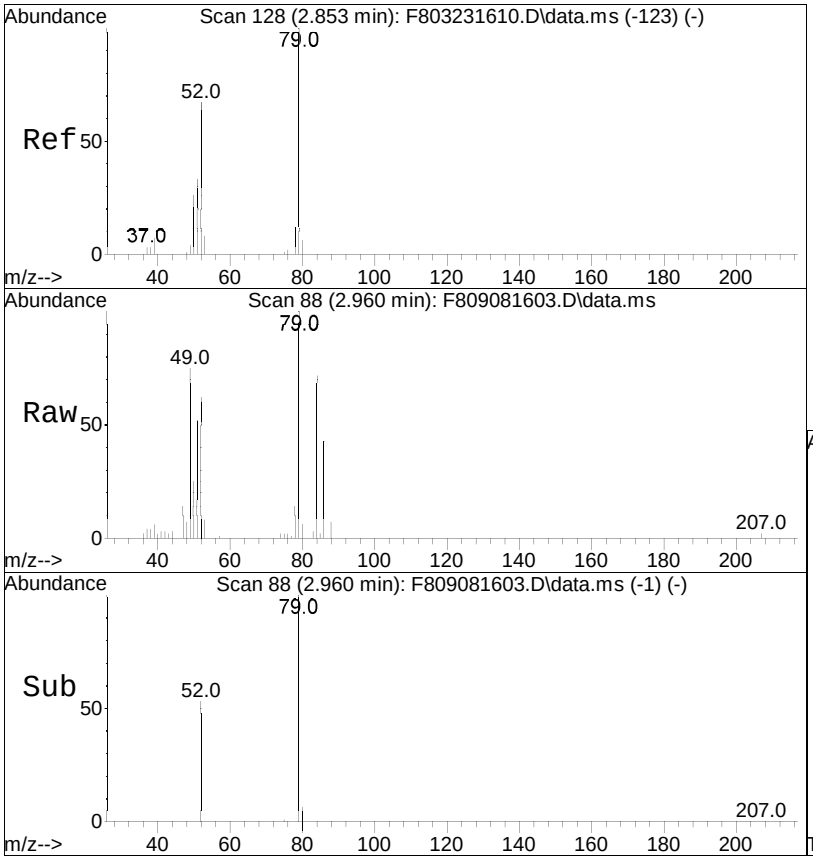


#2
N-Nitrosodimethylamine
Concen: 0.53 ug/mL
RT: 2.927 min Scan# 81
Delta R.T. -0.019 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion: 74 Resp: 14821

Ion	Ratio	Lower	Upper
74	100		
42	55.3	43.8	65.6
40	0.0	4.2	6.4#

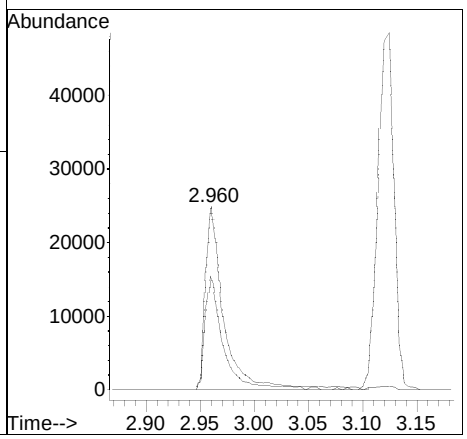


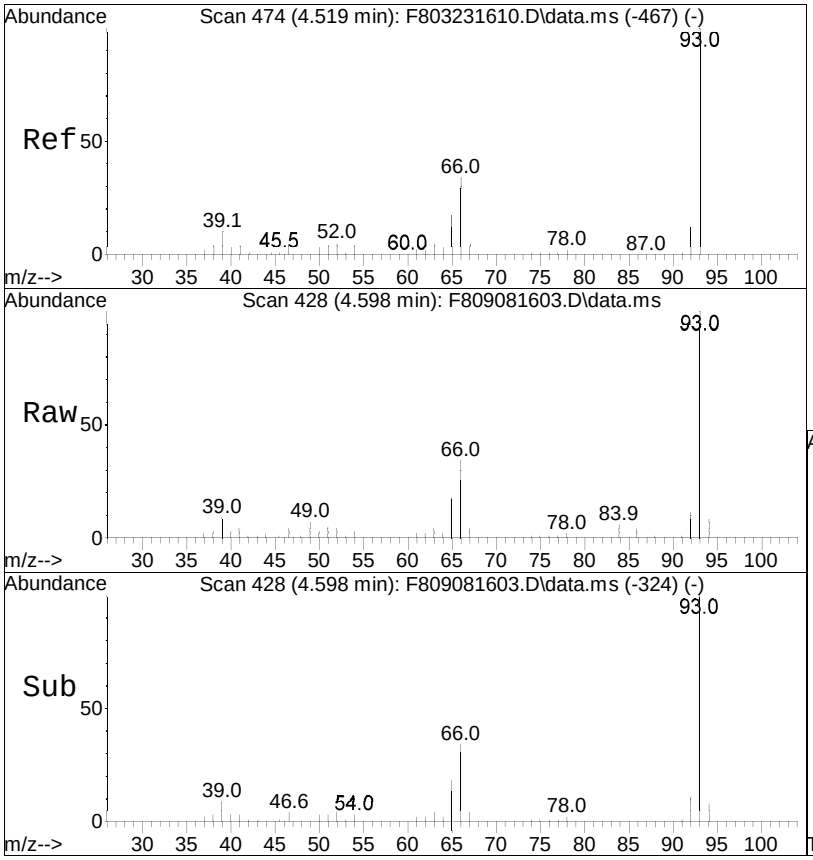


#3
Pyridine
Concen: 0.55 ug/mL
RT: 2.960 min Scan# 88
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion: 79 Resp: 30262

Ion	Ratio	Lower	Upper
79	100		
52	59.3	46.6	69.8

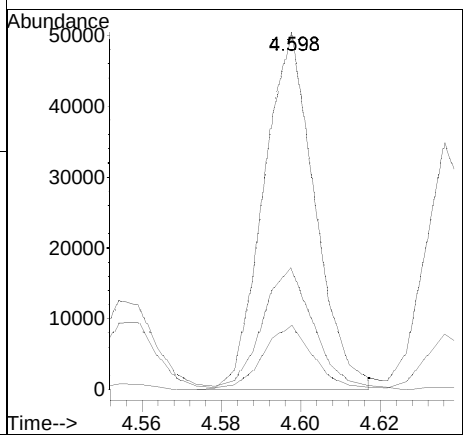


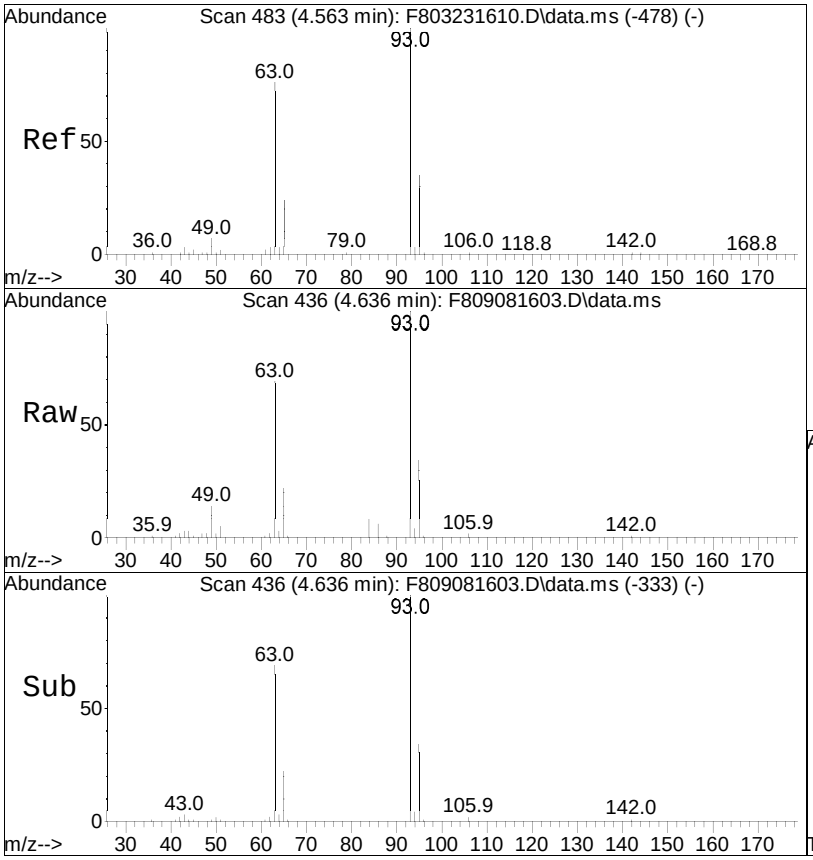


#6
Aniline
Concen: 0.55 ug/ml
RT: 4.598 min Scan# 428
Delta R.T. -0.000 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion: 93 Resp: 45170

Ion	Ratio	Lower	Upper
93	100		
66	35.2	26.7	40.1
65	18.0	14.2	21.4

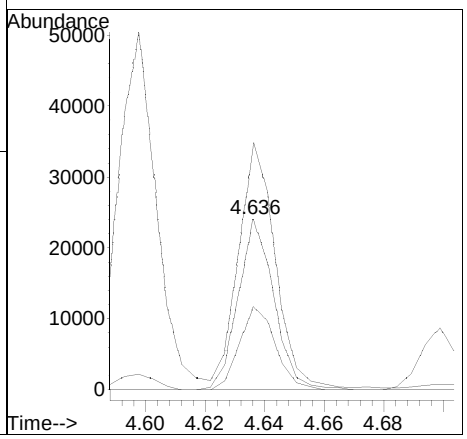


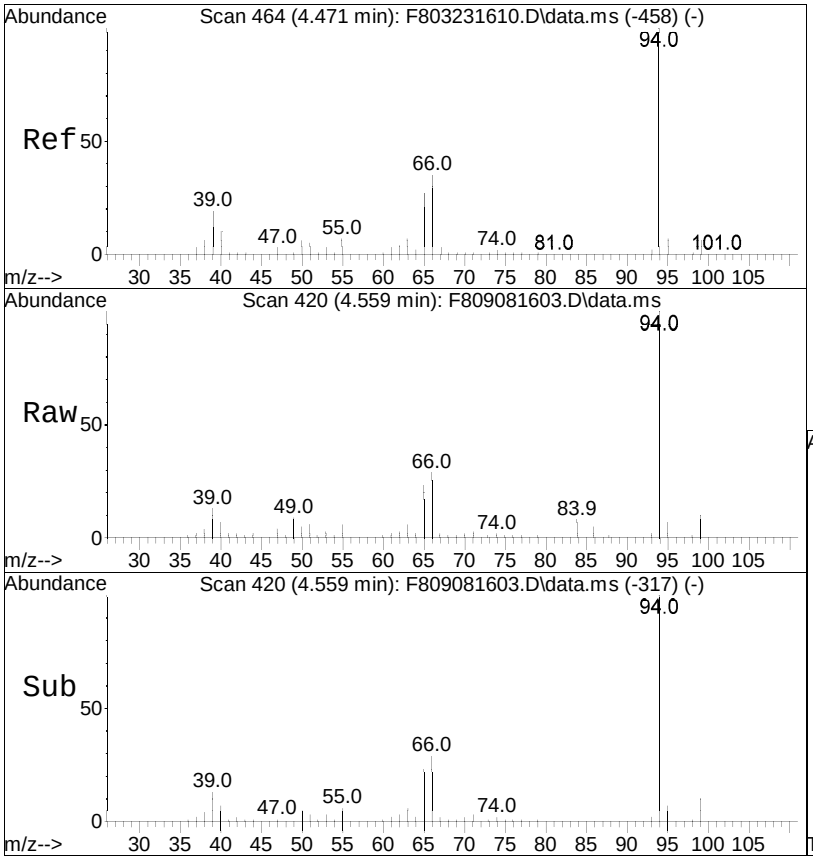


#7
bis(2-Chloroethyl)ether
Concen: 0.57 ug/mL
RT: 4.636 min Scan# 436
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion: 63 Resp: 20159

Ion	Ratio	Lower	Upper
63	100		
93	151.8	123.0	184.4
95	48.8	41.1	61.7

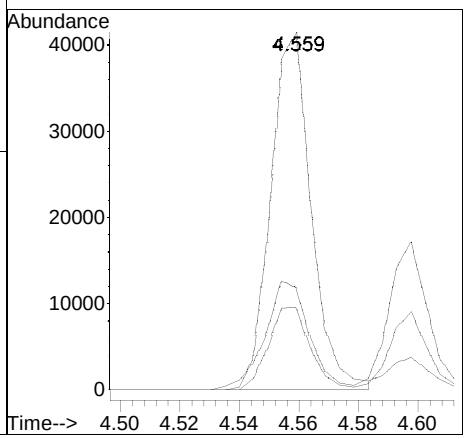


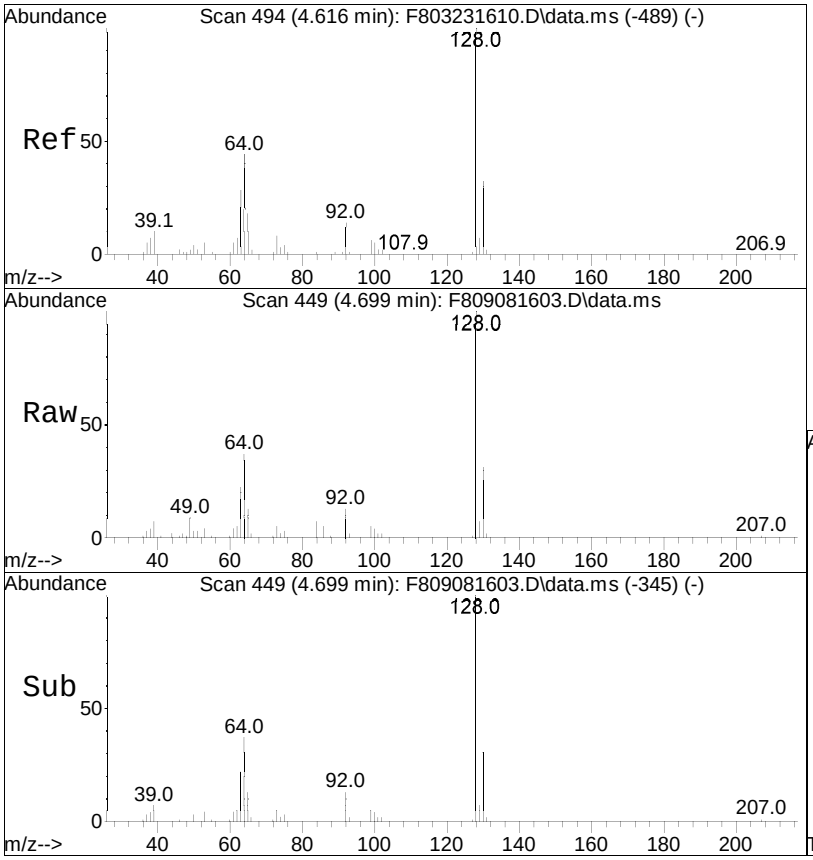


#9
Phenol
Concen: 0.55 ug/mL
RT: 4.559 min Scan# 420
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion: 94 Resp: 38824

Ion	Ratio	Lower	Upper
94	100		
66	34.7	21.7	32.5#
65	24.7	17.6	26.4

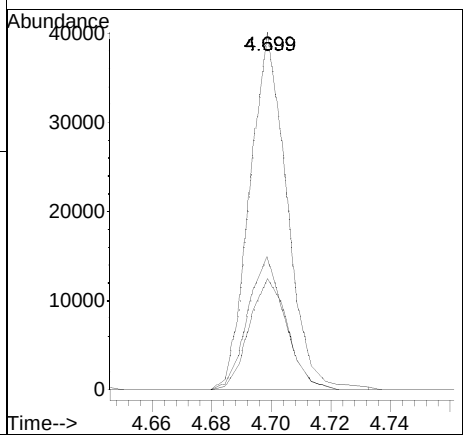


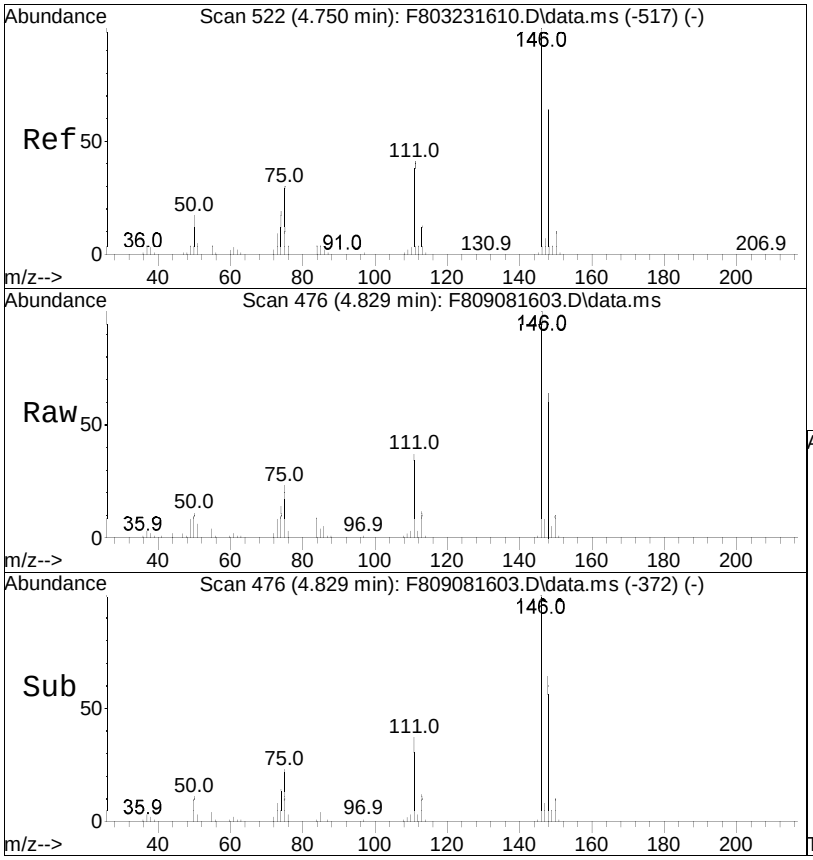


#10
2-Chlorophenol
Concen: 0.55 ug/mL
RT: 4.699 min Scan# 449
Delta R.T. -0.000 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:128 Resp: 34532

Ion	Ratio	Lower	Upper
128	100		
64	37.4	27.6	41.4
130	32.6	26.2	39.4

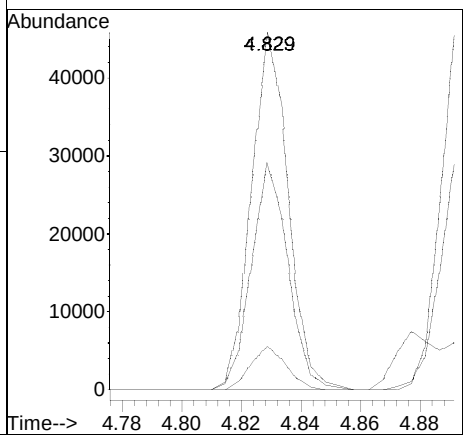


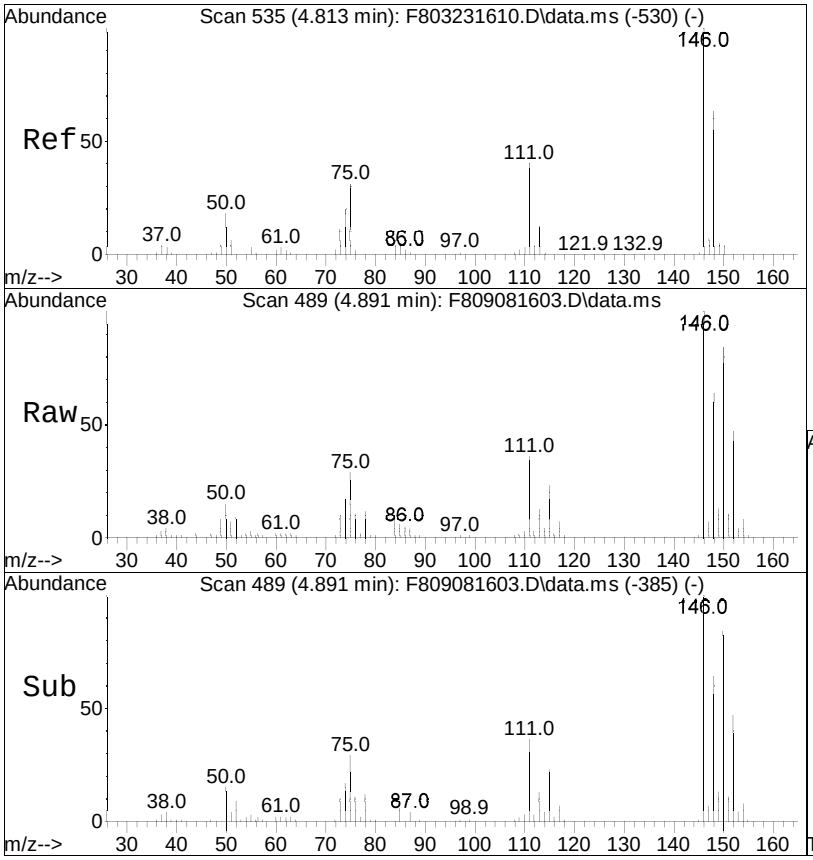


#11
1,3-Dichlorobenzene
Concen: 0.56 ug/mL
RT: 4.829 min Scan# 476
Delta R.T. -0.000 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:146 Resp: 39390

Ion	Ratio	Lower	Upper
146	100		
148	63.2	51.0	76.6
113	11.7	9.7	14.5

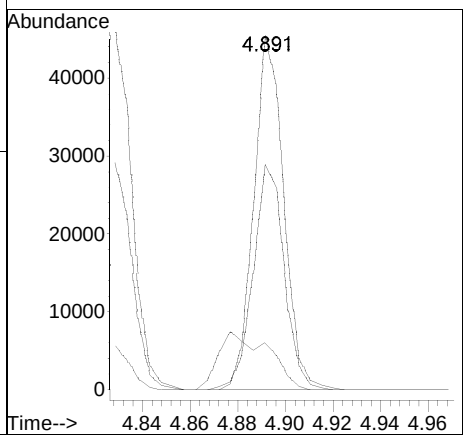


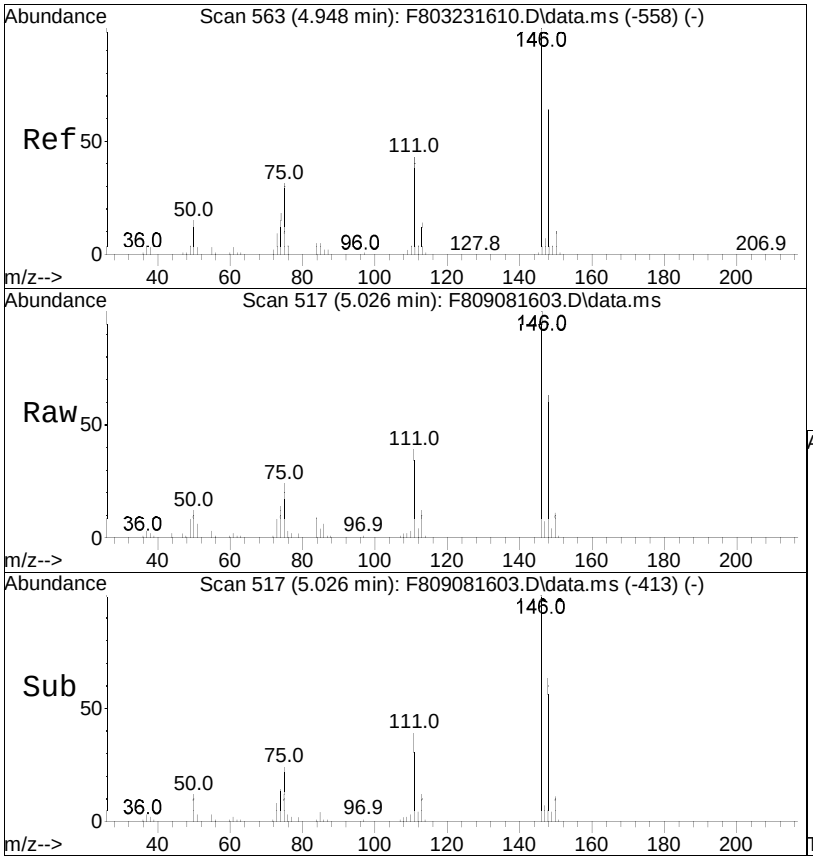


#12
1,4-Dichlorobenzene
Concen: 0.57 ug/mL M4
RT: 4.891 min Scan# 489
Delta R.T. 0.000 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:146 Resp: 39549

Ion	Ratio	Lower	Upper
146	100		
148	63.0	51.2	76.8
113	11.7	9.1	13.7

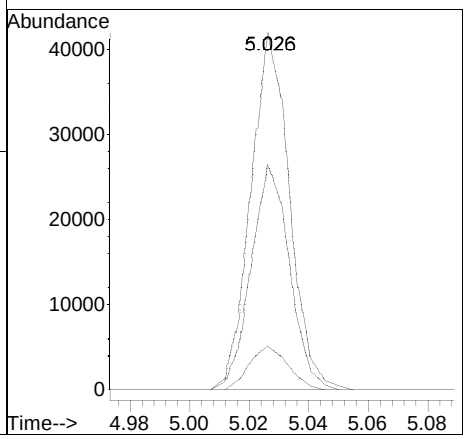


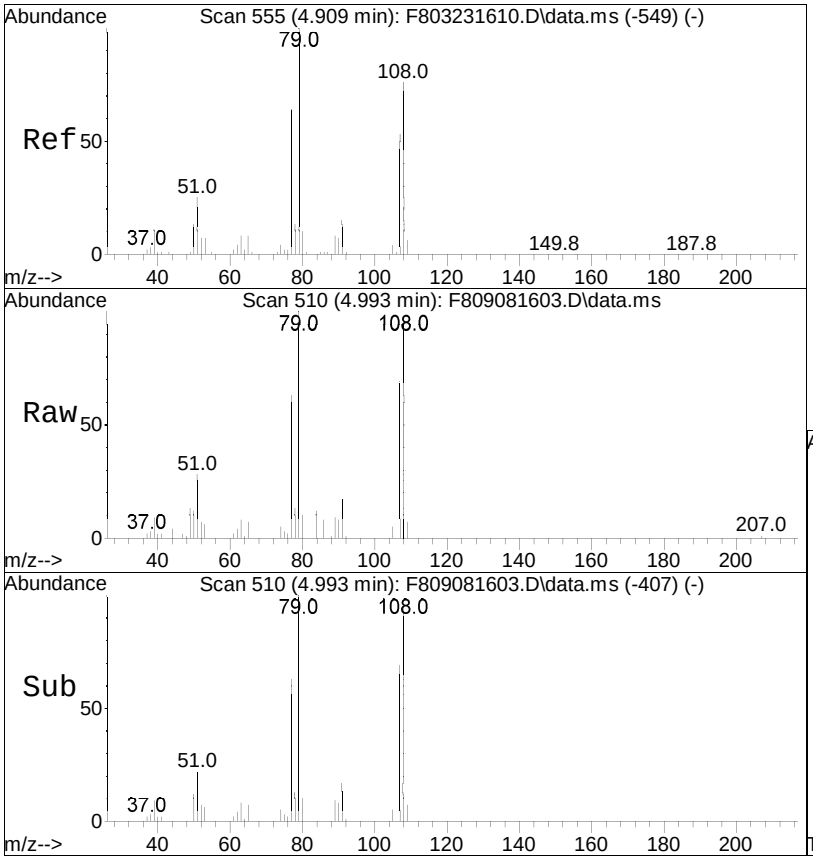


#13
1,2-Dichlorobenzene
Concen: 0.57 ug/mL
RT: 5.026 min Scan# 517
Delta R.T. 0.000 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:146 Resp: 37545

Ion	Ratio	Lower	Upper
146	100		
148	62.7	51.0	76.6
113	12.3	10.0	15.0

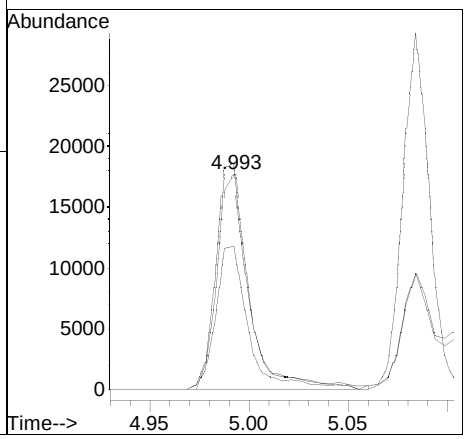


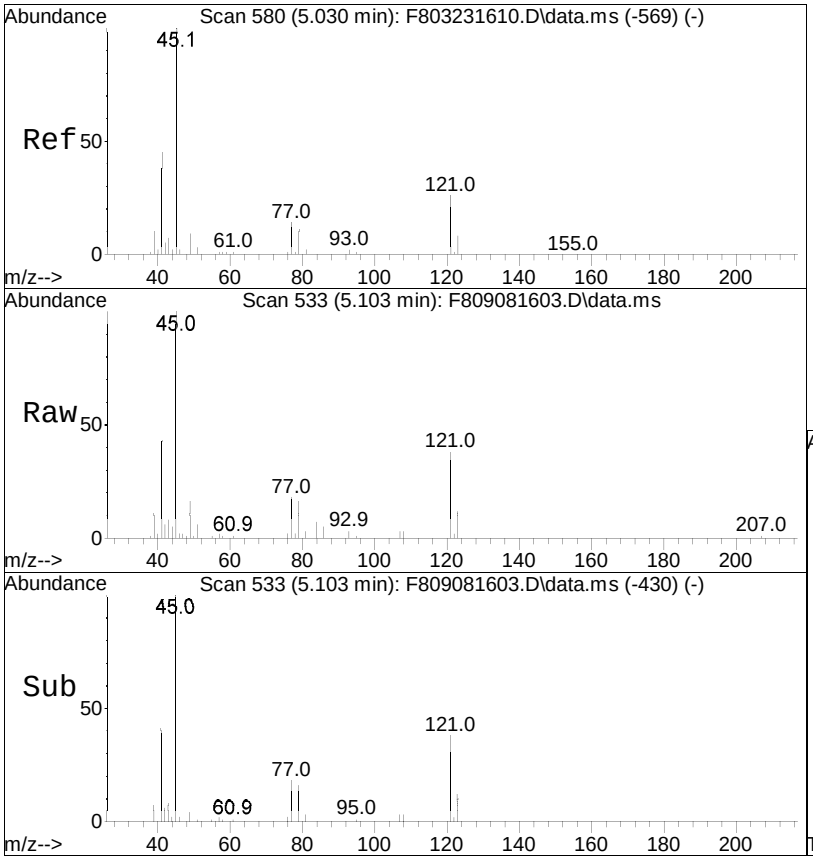


#14
Benzyl alcohol
Concen: 0.52 ug/mL
RT: 4.993 min Scan# 510
Delta R.T. -0.004 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:108 Resp: 19768

Ion	Ratio	Lower	Upper
108	100		
79	109.6	84.5	126.7
77	66.8	52.9	79.3

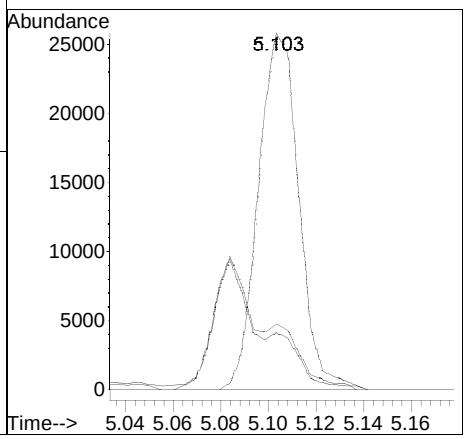


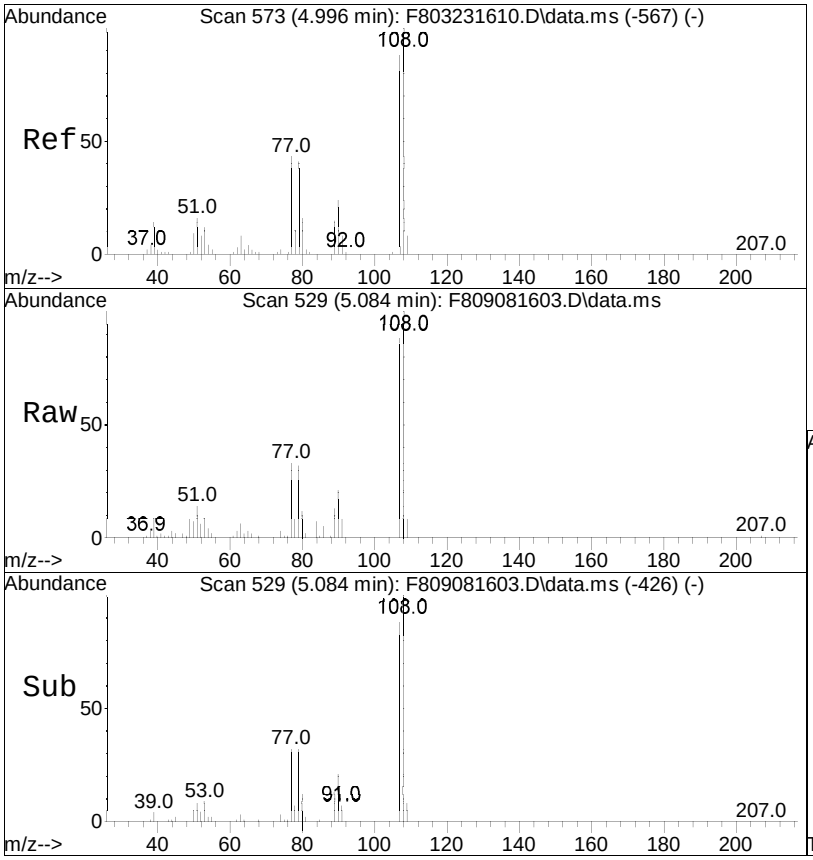


#15
bis(2-chloroisopropyl)ether
Concen: 0.62 ug/mL
RT: 5.103 min Scan# 533
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion: 45 Resp: 30254

Ion	Ratio	Lower	Upper
45	100		
77	49.5	13.2	19.8#
79	46.0	10.9	16.3#

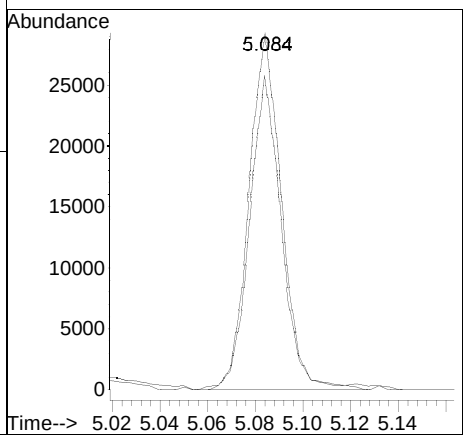


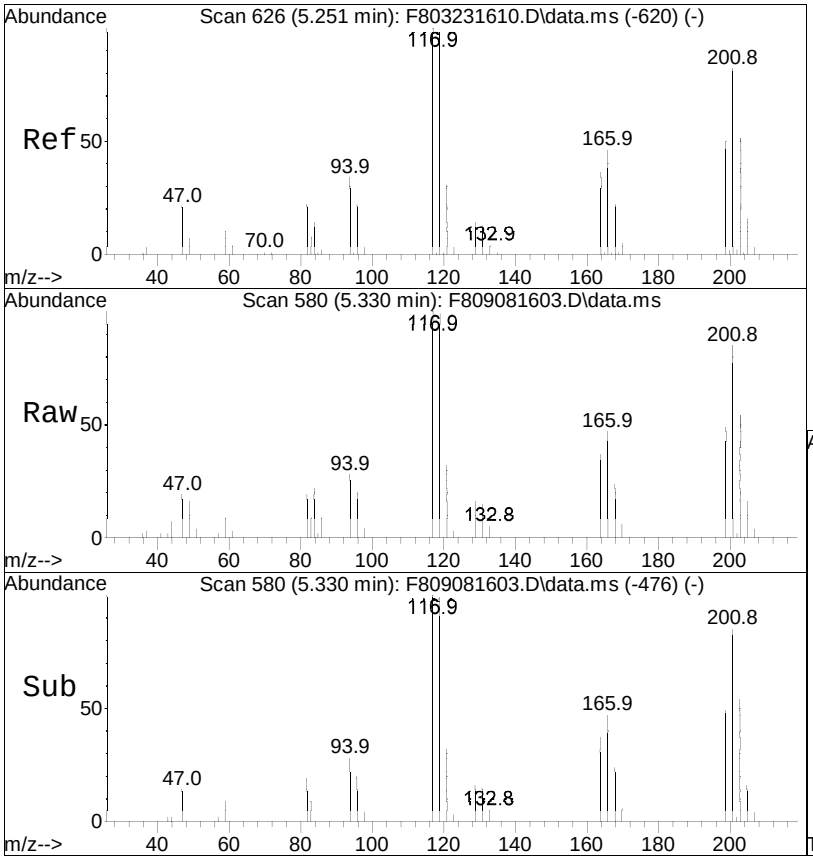


#16
2-Methylphenol
Concen: 0.57 ug/mL M4
RT: 5.084 min Scan# 529
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:108 Resp: 27894

Ion	Ratio	Lower	Upper
108	100		
107	81.8	68.1	102.1

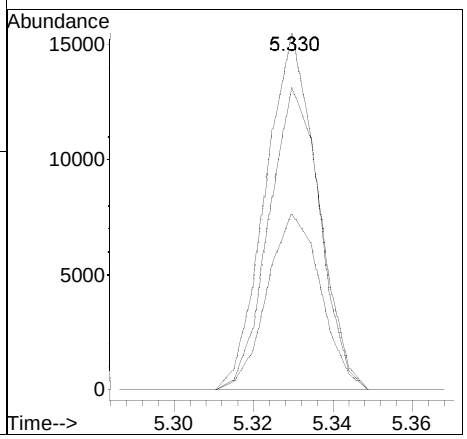


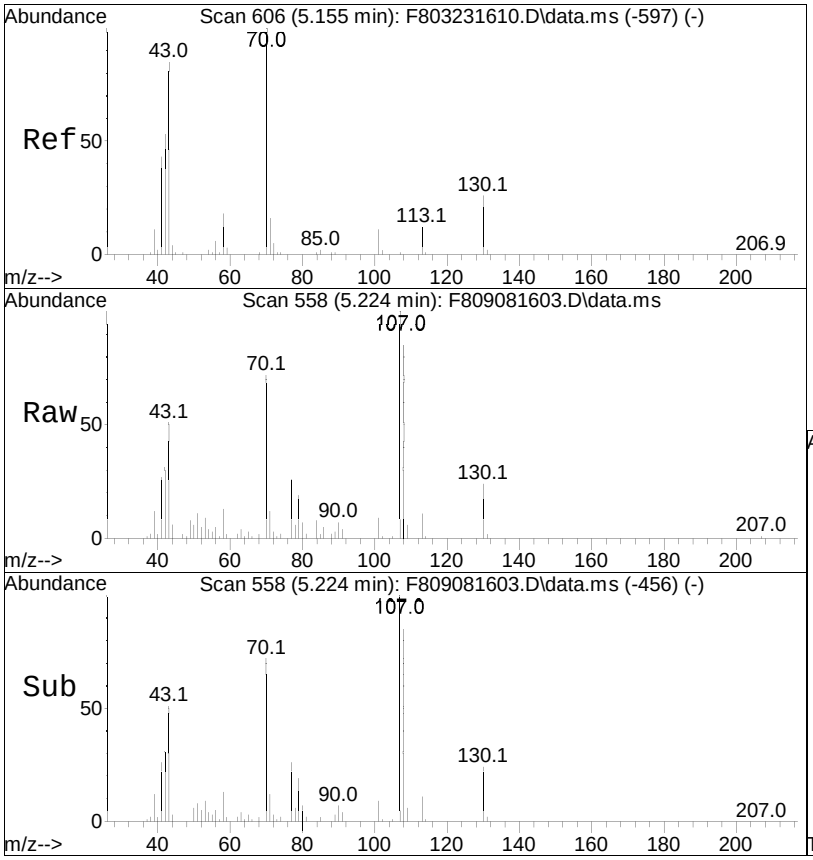


#18
Hexachloroethane
Concen: 0.55 ug/mL
RT: 5.330 min Scan# 580
Delta R.T. -0.000 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:117 Resp: 13901

Ion	Ratio	Lower	Upper
117	100		
201	85.8	62.8	94.2
199	51.6	39.0	58.4

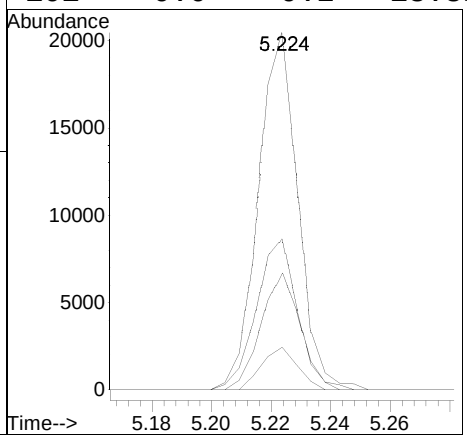


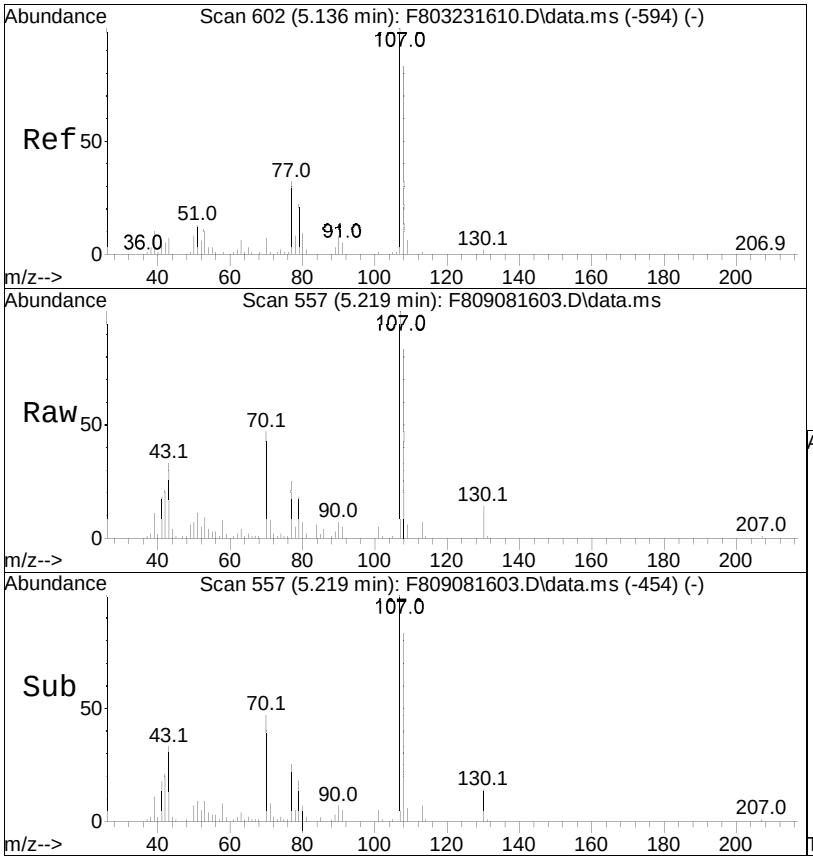


#19
N-Nitroso-di-n-propylamine
Concen: 0.55 ug/mL
RT: 5.224 min Scan# 558
Delta R.T. -0.009 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion: 70 Resp: 18854

Ion	Ratio	Lower	Upper
70	100		
42	43.9	37.1	55.7
130	32.4	24.0	36.0
101	0.0	9.2	13.8#

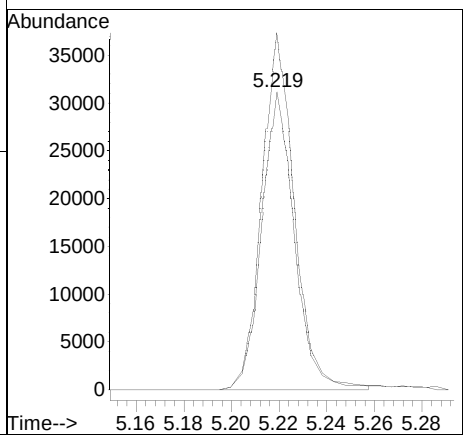


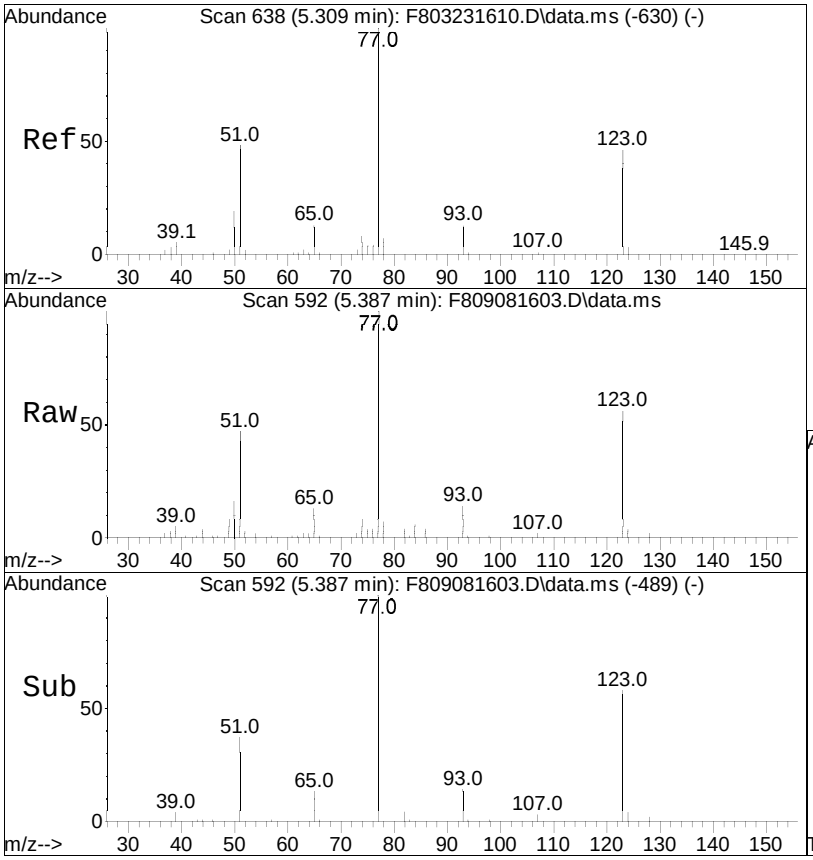


#20
4-Methylphenol
Concen: 0.56 ug/mL
RT: 5.219 min Scan# 557
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:108 Resp: 29722

Ion	Ratio	Lower	Upper
108	100		
107	119.0	94.6	142.0

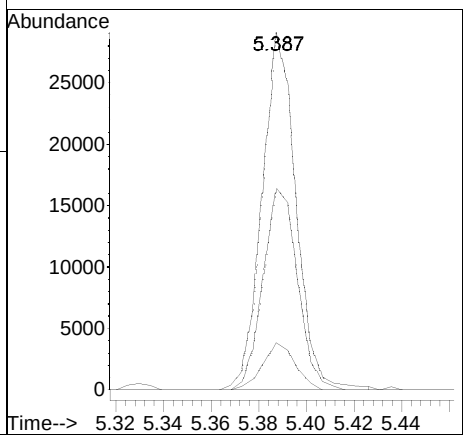


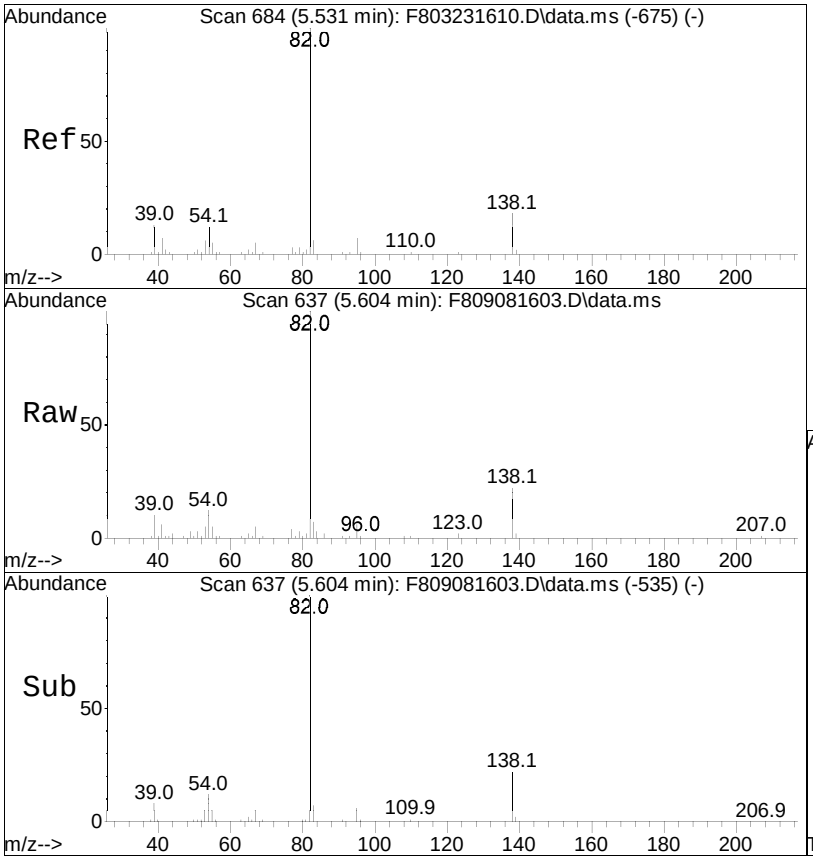


#23
Nitrobenzene
Concen: 0.55 ug/mL
RT: 5.387 min Scan# 592
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion: 77 Resp: 28481

Ion	Ratio	Lower	Upper
77	100		
123	57.4	45.4	68.2
65	12.7	10.2	15.4

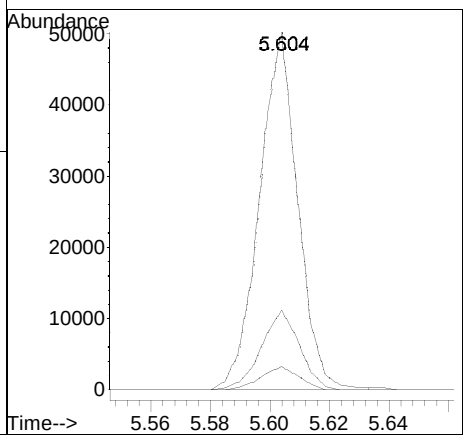


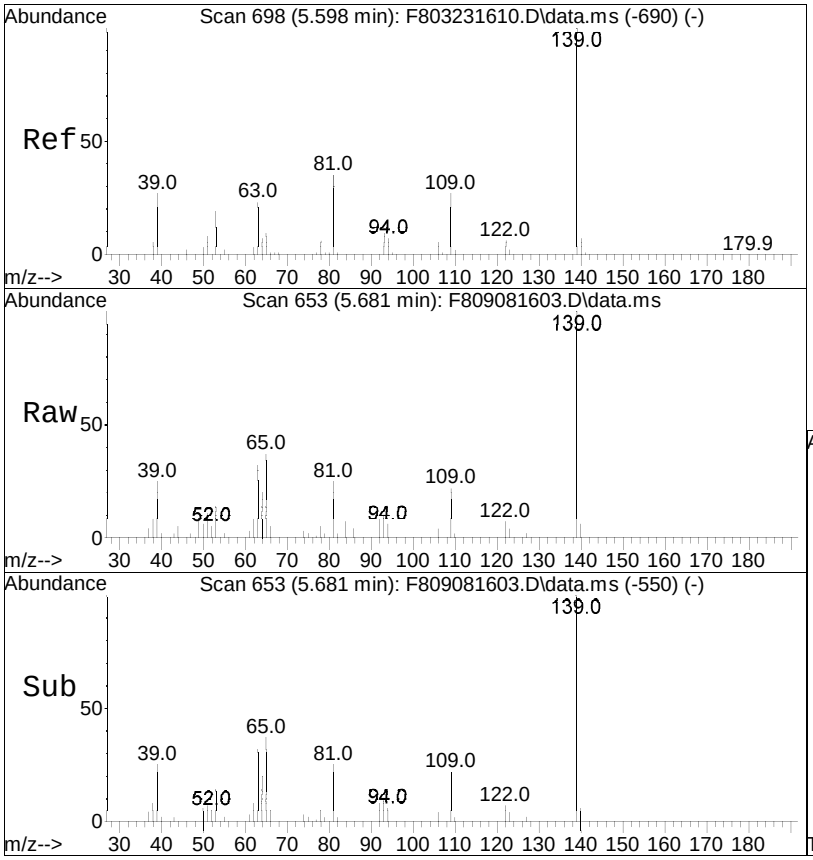


#24
Isophorone
Concen: 0.53 ug/mL
RT: 5.604 min Scan# 637
Delta R.T. -0.010 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion: 82 Resp: 44280

Ion	Ratio	Lower	Upper
82	100		
138	22.3	17.0	25.4
95	6.5	4.9	7.3

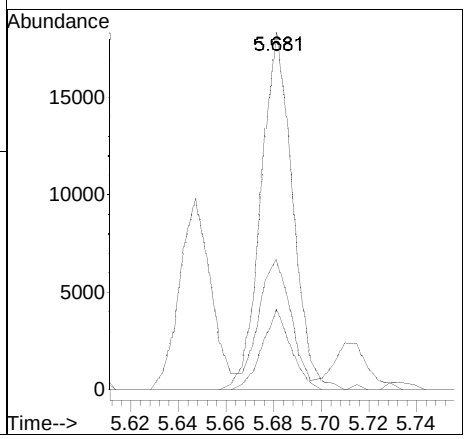


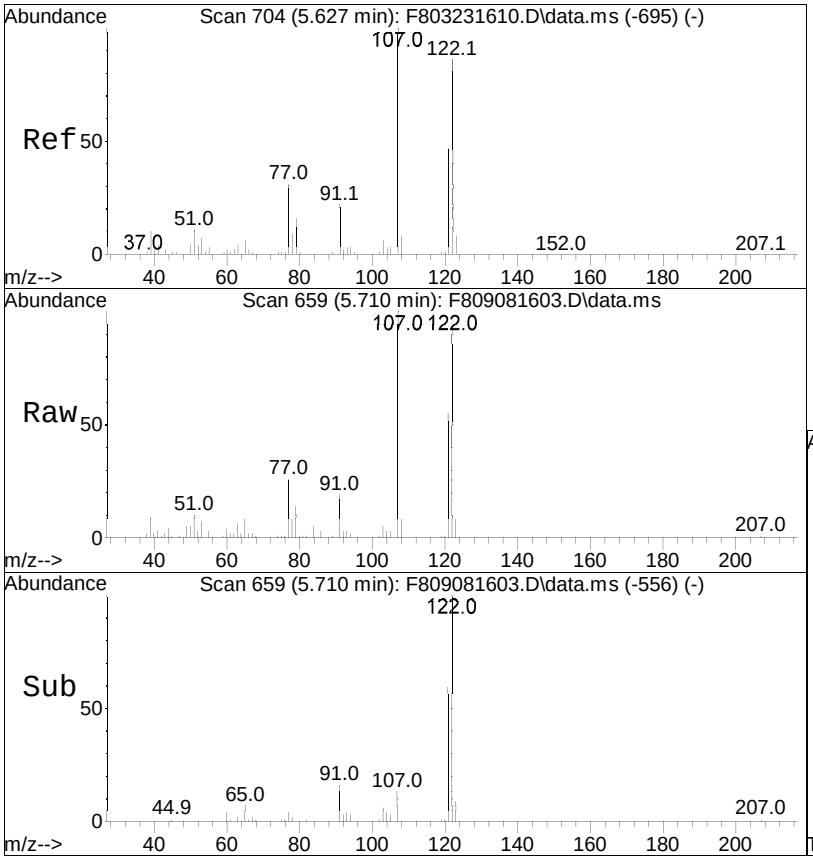


#25
2-Nitrophenol
Concen: 0.49 ug/mL
RT: 5.681 min Scan# 653
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:139 Resp: 16868

Ion	Ratio	Lower	Upper
139	100		
65	28.8	28.4	42.6
109	20.6	16.3	24.5

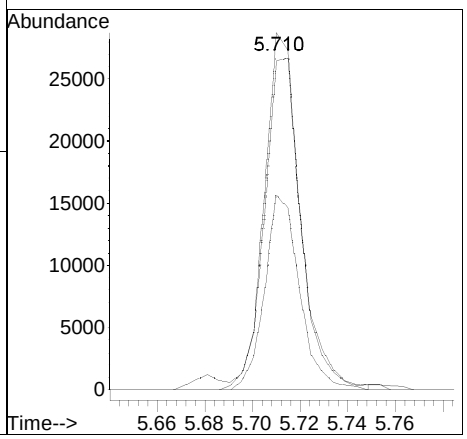


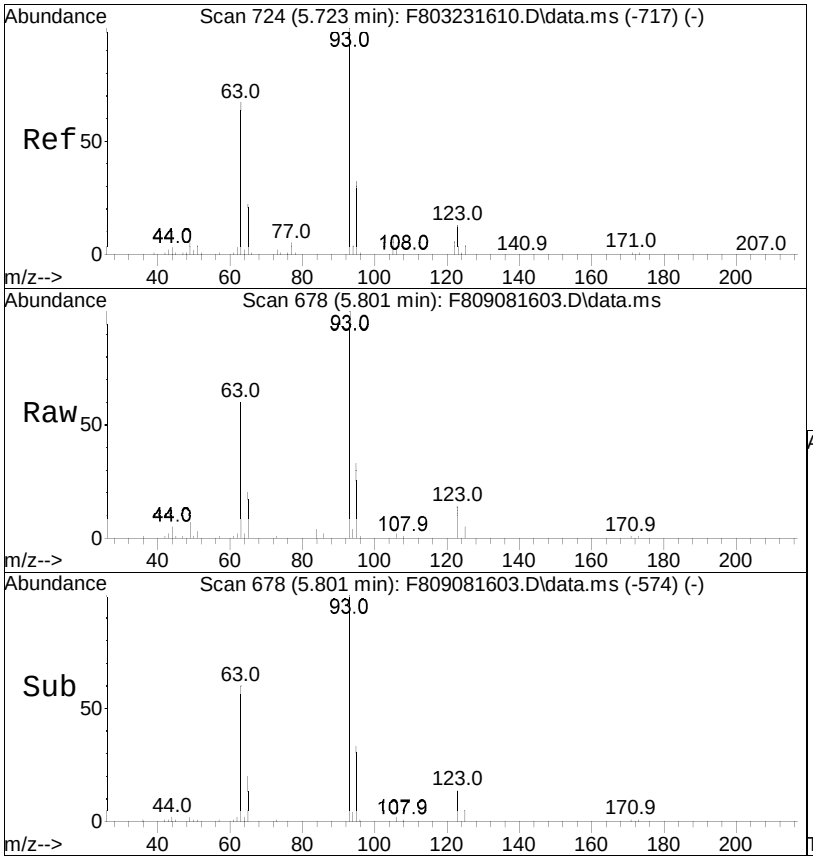


#26
2,4-Dimethylphenol
Concen: 0.56 ug/mL
RT: 5.710 min Scan# 659
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:107 Resp: 30235

Ion	Ratio	Lower	Upper
107	100		
122	90.7	78.4	117.6
121	52.8	43.0	64.6

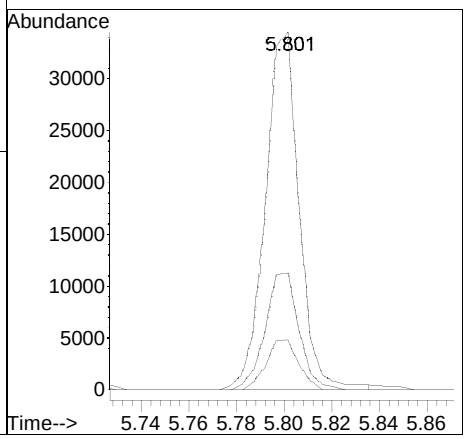


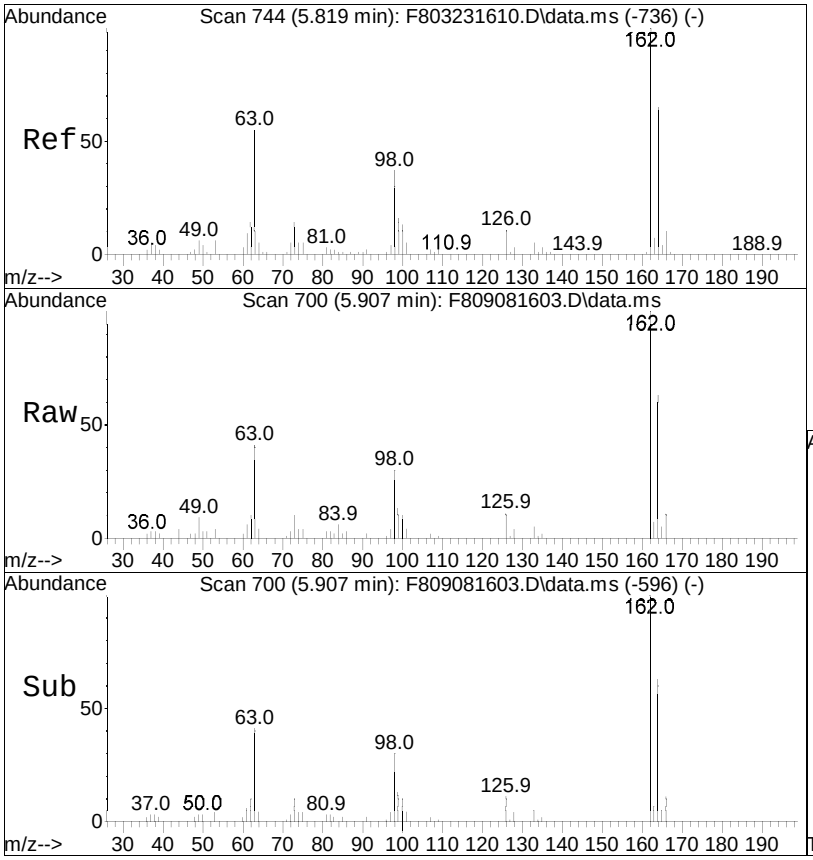


#28
bis(2-Chloroethoxy)methane
Concen: 0.55 ug/mL
RT: 5.801 min Scan# 678
Delta R.T. -0.000 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion: 93 Resp: 33623

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.7	40.1
123	13.5	11.9	17.9

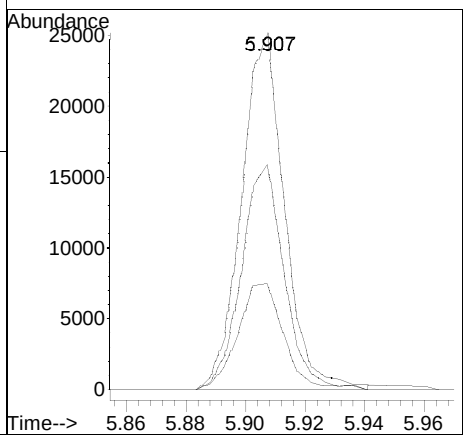


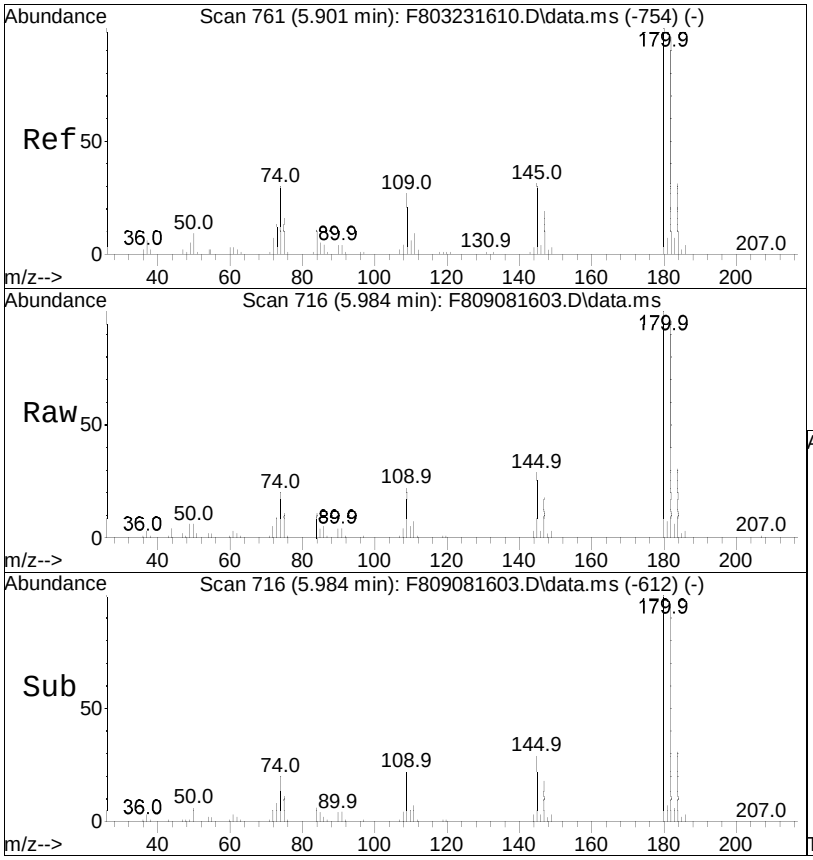


#29
2,4-Dichlorophenol
Concen: 0.50 ug/mL
RT: 5.907 min Scan# 700
Delta R.T. 0.000 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:162 Resp: 25018

Ion	Ratio	Lower	Upper
162	100		
164	63.1	50.8	76.2
98	32.3	26.3	39.5

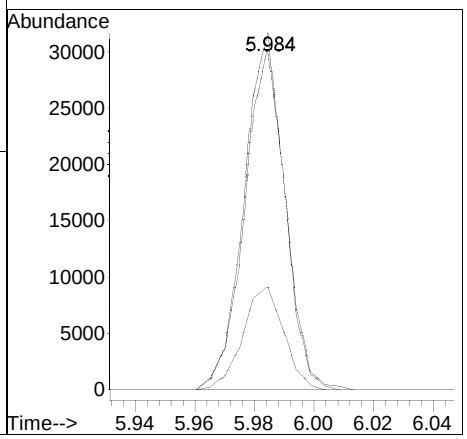


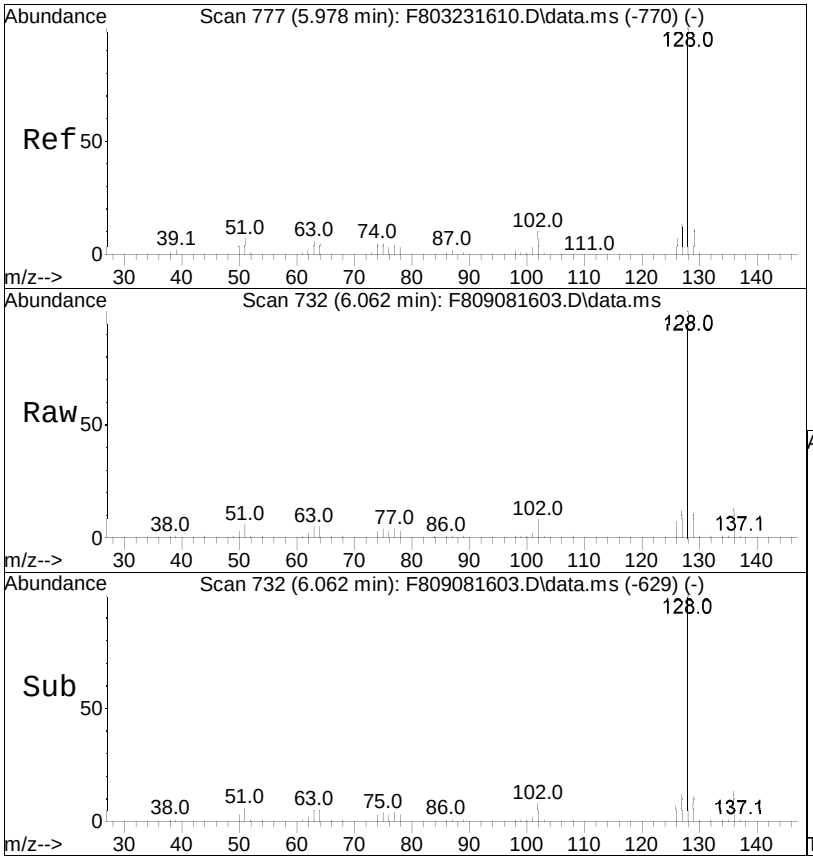


#30
1,2,4-Trichlorobenzene
Concen: 0.56 ug/mL
RT: 5.984 min Scan# 716
Delta R.T. 0.000 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:180 Resp: 30191

Ion	Ratio	Lower	Upper
180	100		
182	94.4	76.2	114.4
145	29.0	23.6	35.4

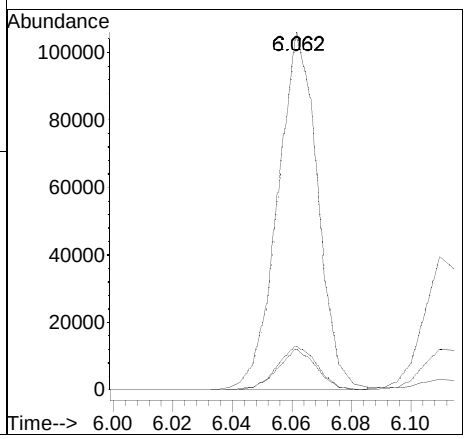


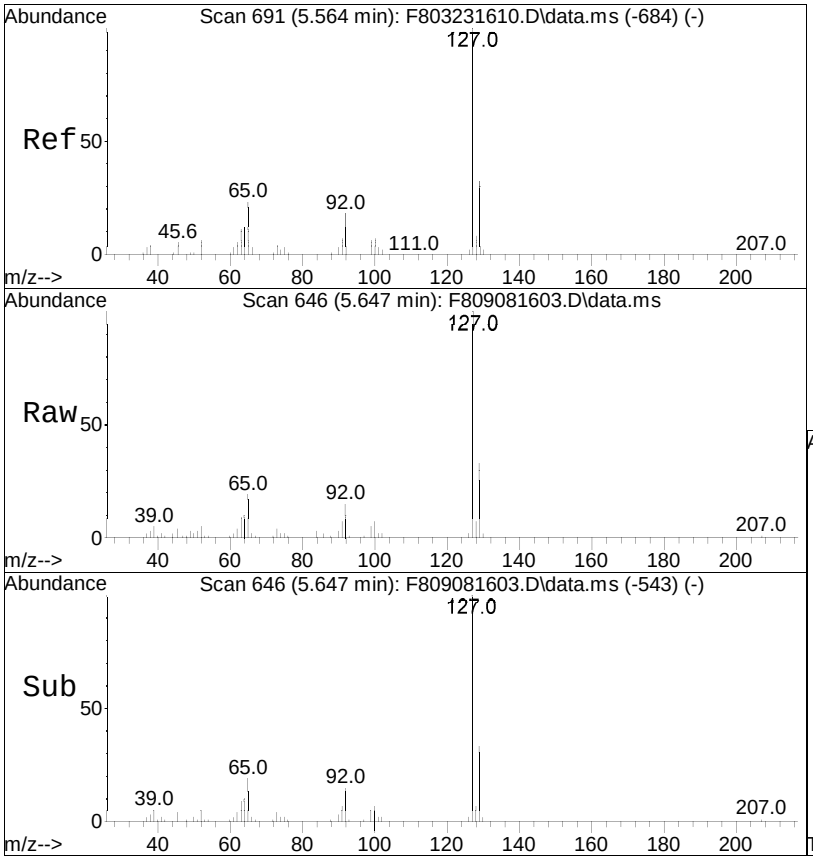


#31
Naphthalene
Concen: 0.57 ug/mL
RT: 6.062 min Scan# 732
Delta R.T. -0.004 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:128 Resp: 98293

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.4
127	12.3	10.0	15.0

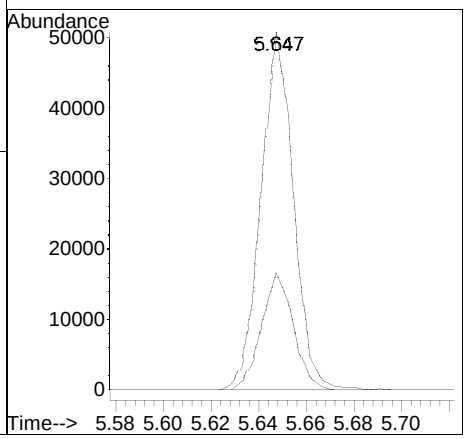


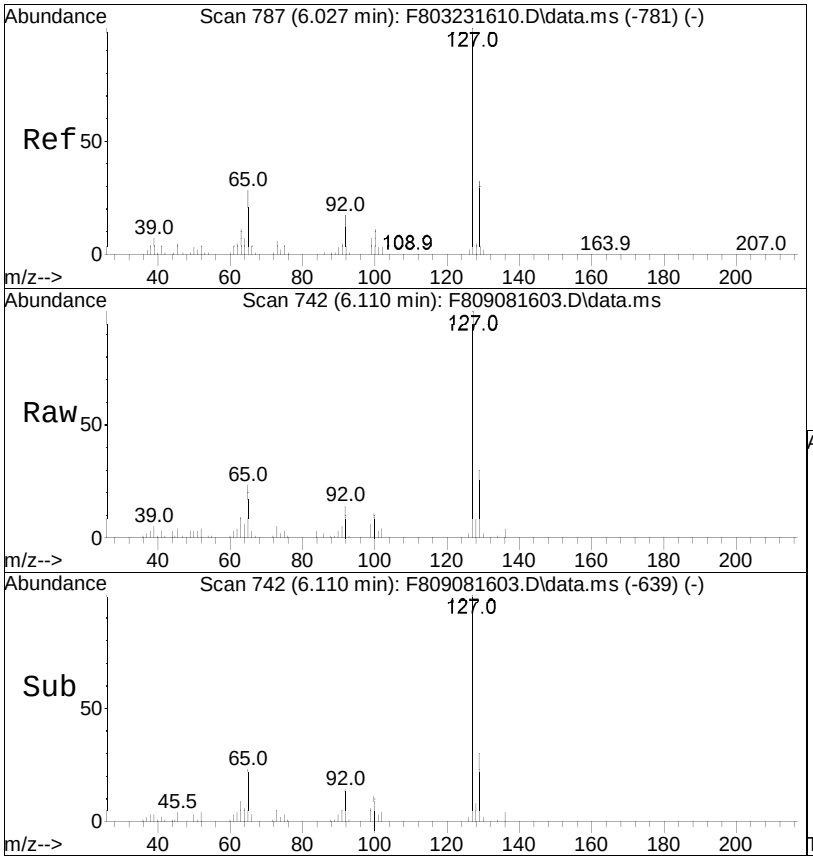


#32
2-Chloroaniline
Concen: 0.55 ug/ml
RT: 5.647 min Scan# 646
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:127 Resp: 47526

Ion	Ratio	Lower	Upper
127	100		
129	32.2	26.2	39.4

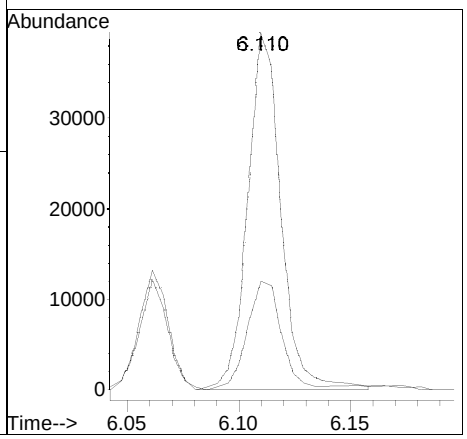


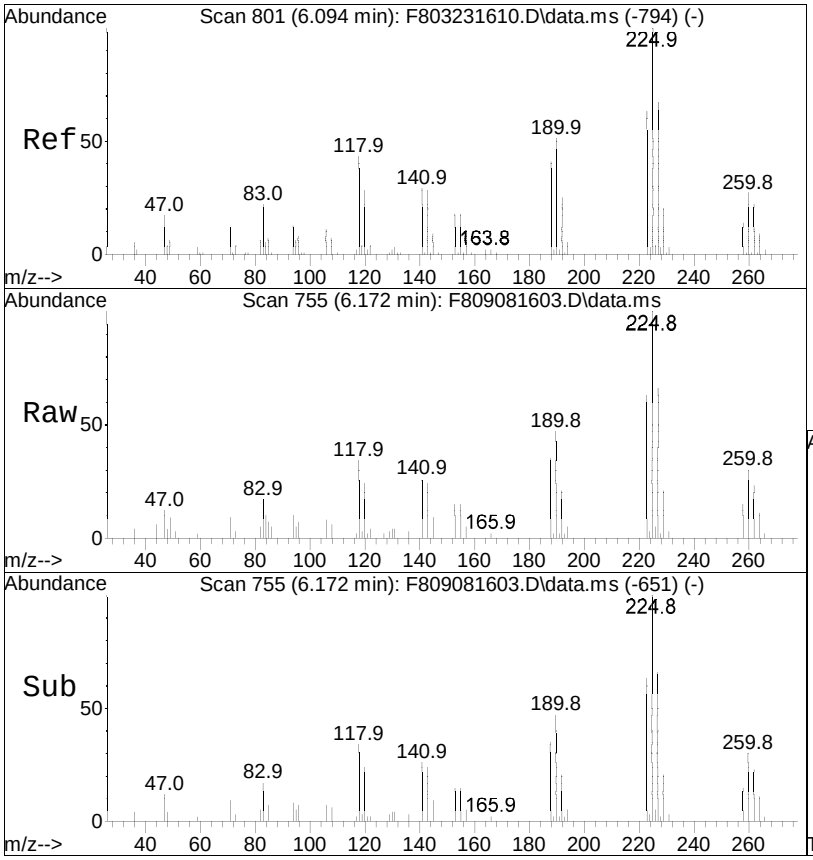


#33
4-Chloroaniline
Concen: 0.55 ug/mL M4
RT: 6.110 min Scan# 742
Delta R.T. -0.004 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:127 Resp: 40734

Ion	Ratio	Lower	Upper
127	100		
129	31.0	25.8	38.6

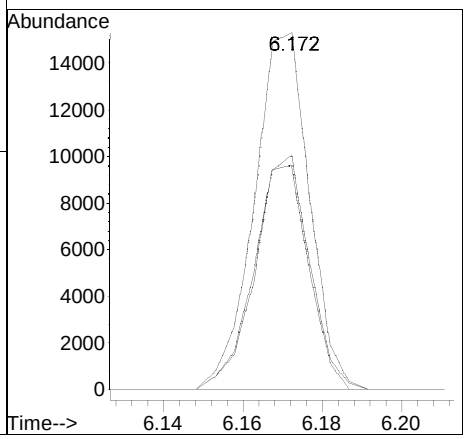


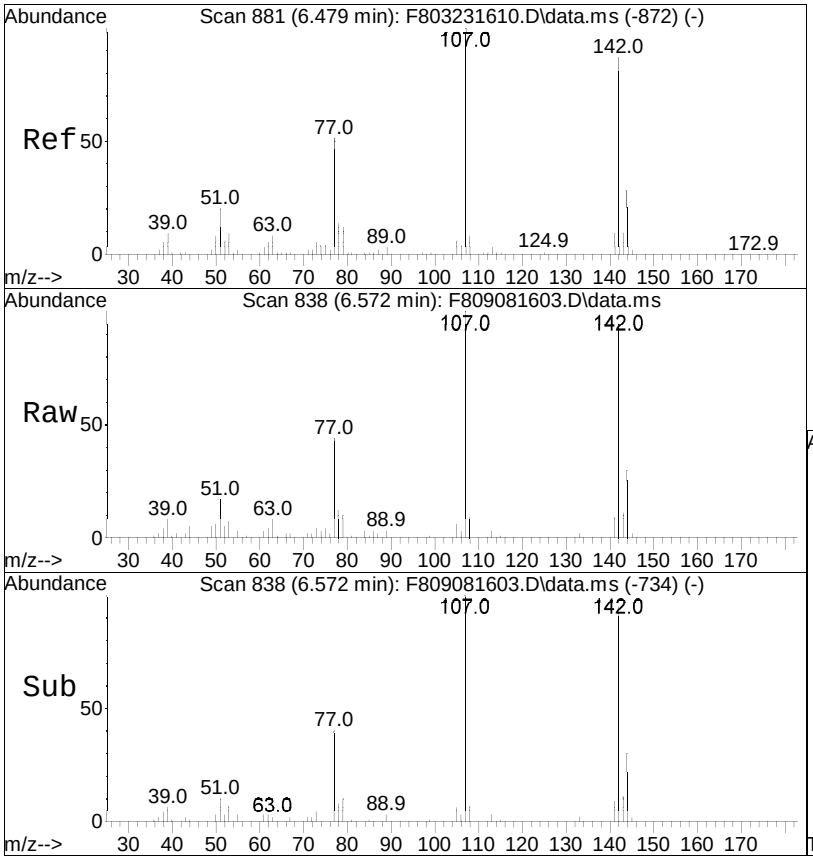


#34
Hexachlorobutadiene
Concen: 0.54 ug/mL
RT: 6.172 min Scan# 755
Delta R.T. 0.000 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:225 Resp: 14789

Ion	Ratio	Lower	Upper
225	100		
223	61.9	50.8	76.2
227	65.3	51.1	76.7

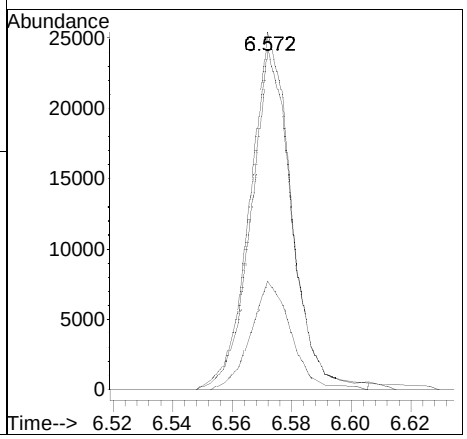


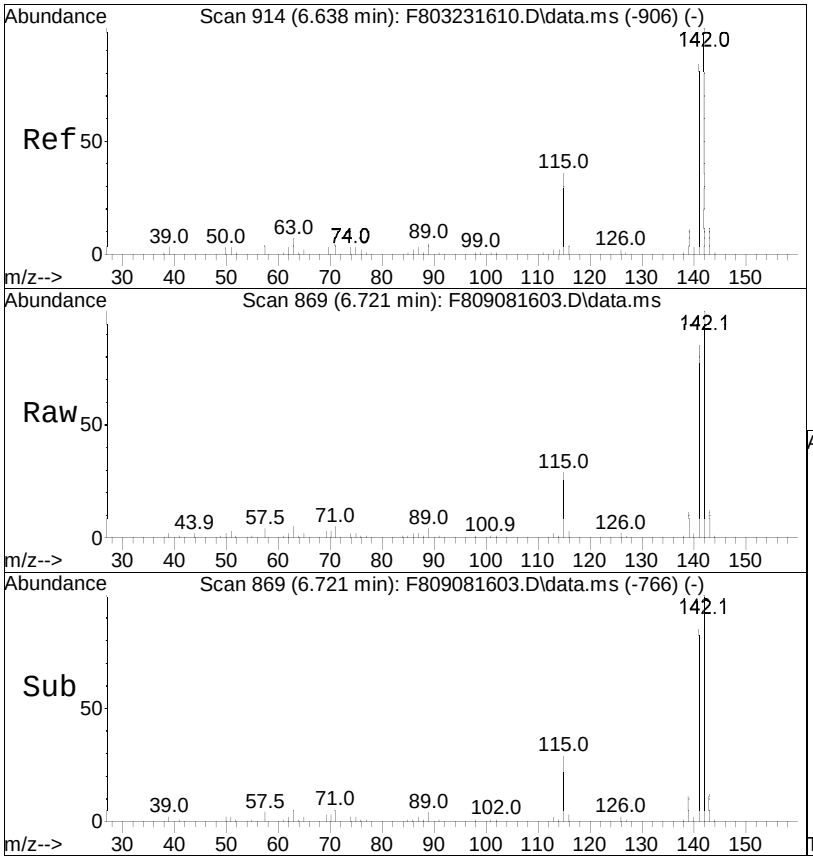


#36
4-Chloro-3-methylphenol
Concen: 0.51 ug/mL
RT: 6.572 min Scan# 838
Delta R.T. -0.000 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:107 Resp: 24511

Ion	Ratio	Lower	Upper
107	100		
144	29.7	24.3	36.5
142	93.4	74.4	111.6

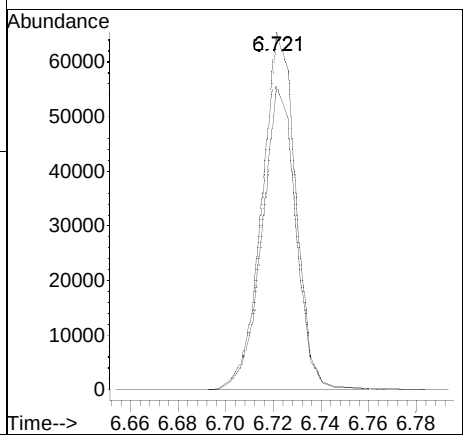


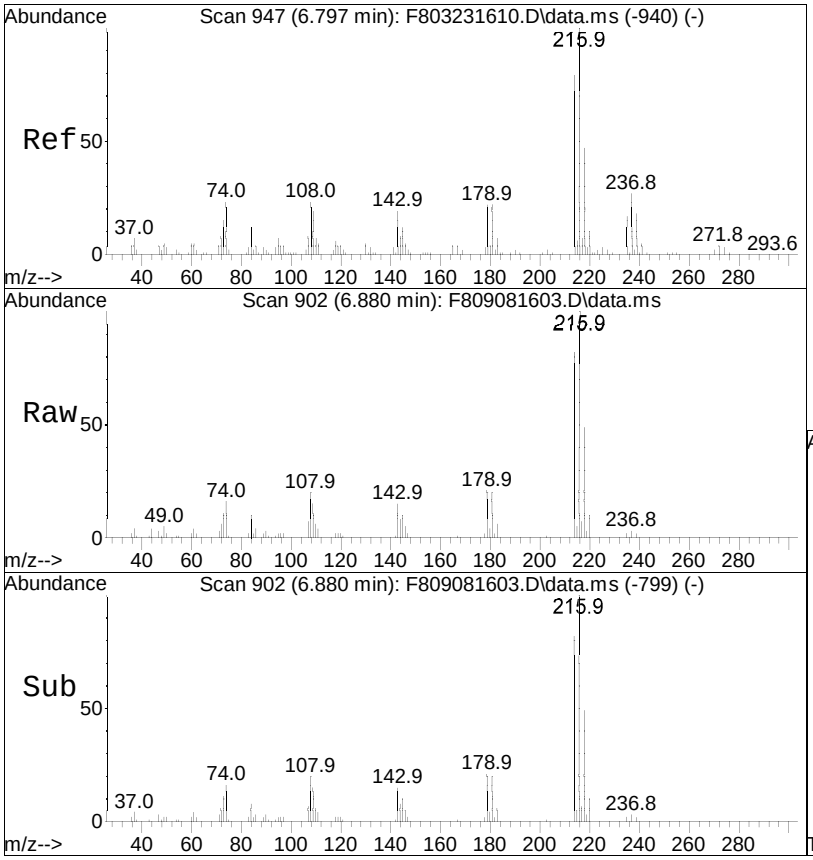


#37
2-Methylnaphthalene
Concen: 0.55 ug/mL
RT: 6.721 min Scan# 869
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:142 Resp: 64090

Ion	Ratio	Lower	Upper
142	100		
141	84.4	66.6	100.0

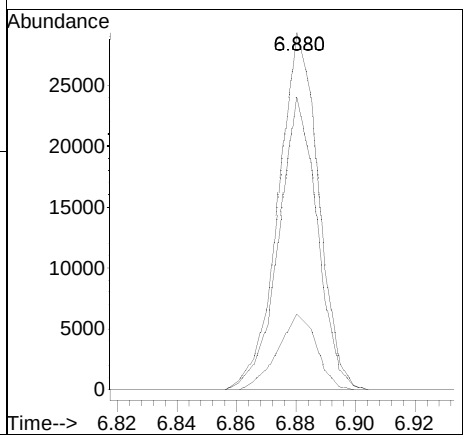


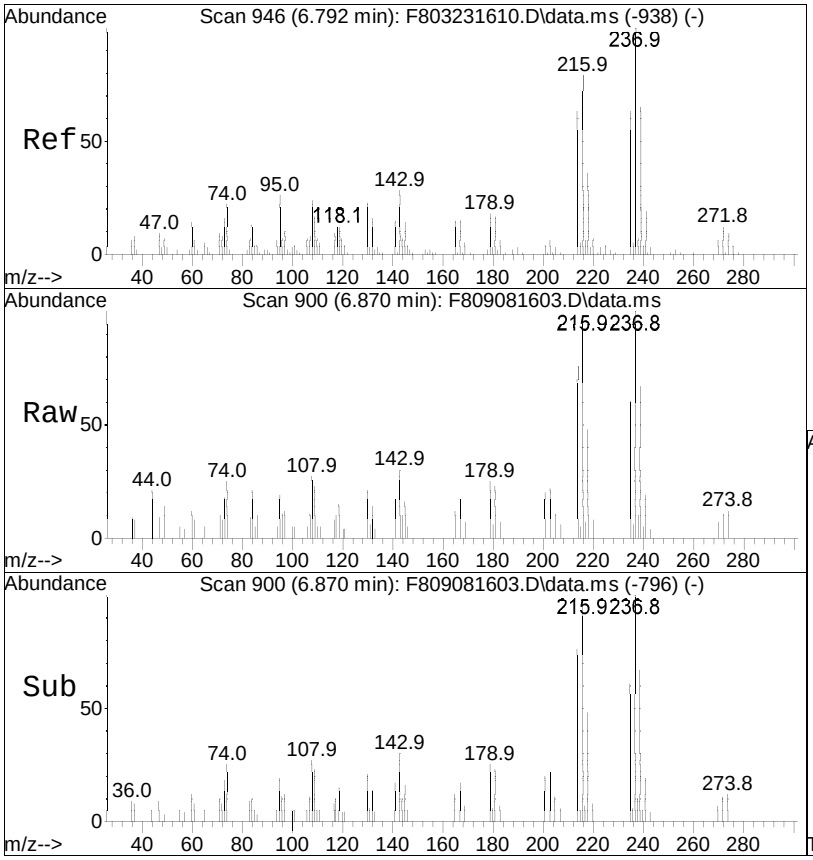


#39
1,2,4,5-Tetrachlorobenzene
Concen: 0.55 ug/mL
RT: 6.880 min Scan# 902
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:216 Resp: 27533

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.0	94.6
179	20.6	16.2	24.4

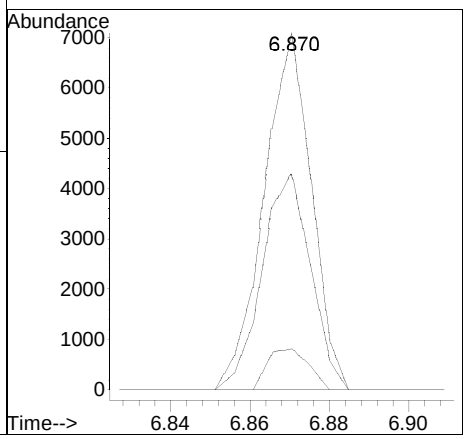


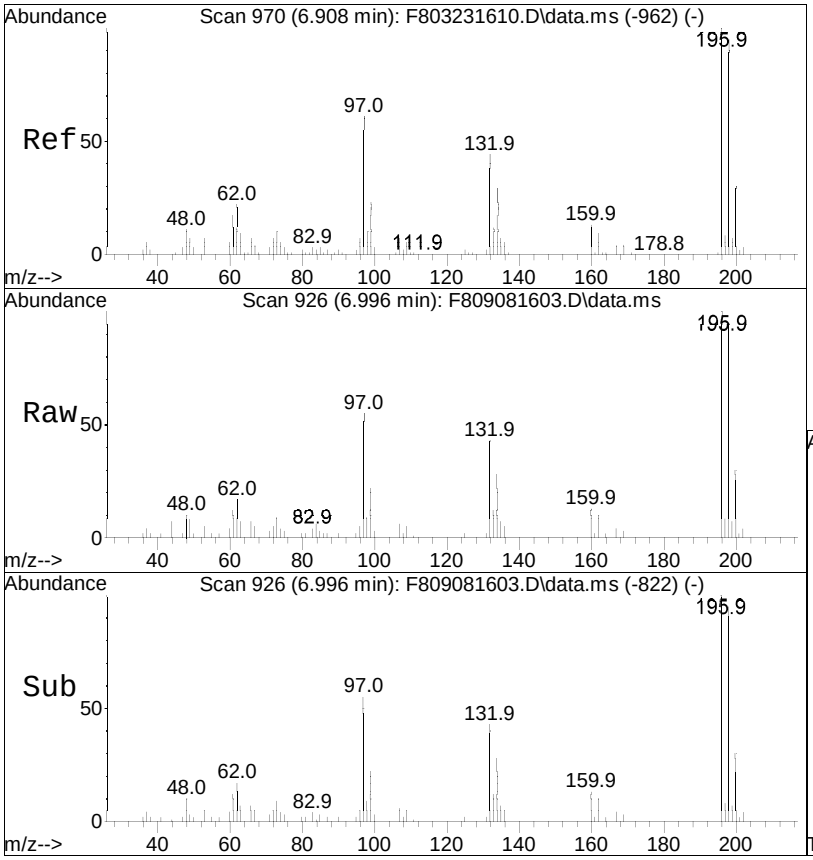


#40
Hexachlorocyclopentadiene
Concen: 0.65 ug/mL
RT: 6.870 min Scan# 900
Delta R.T. -0.001 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:237 Resp: 5870

Ion	Ratio	Lower	Upper
237	100		
235	62.1	53.3	79.9
272	0.0	10.9	16.3#

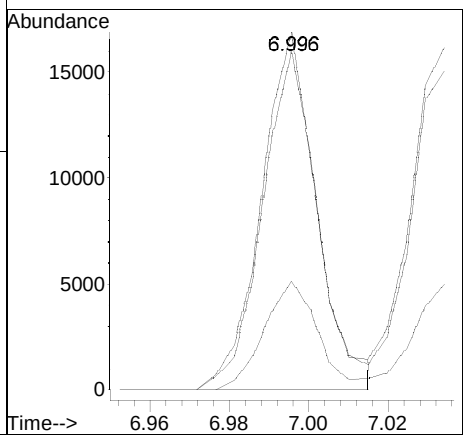


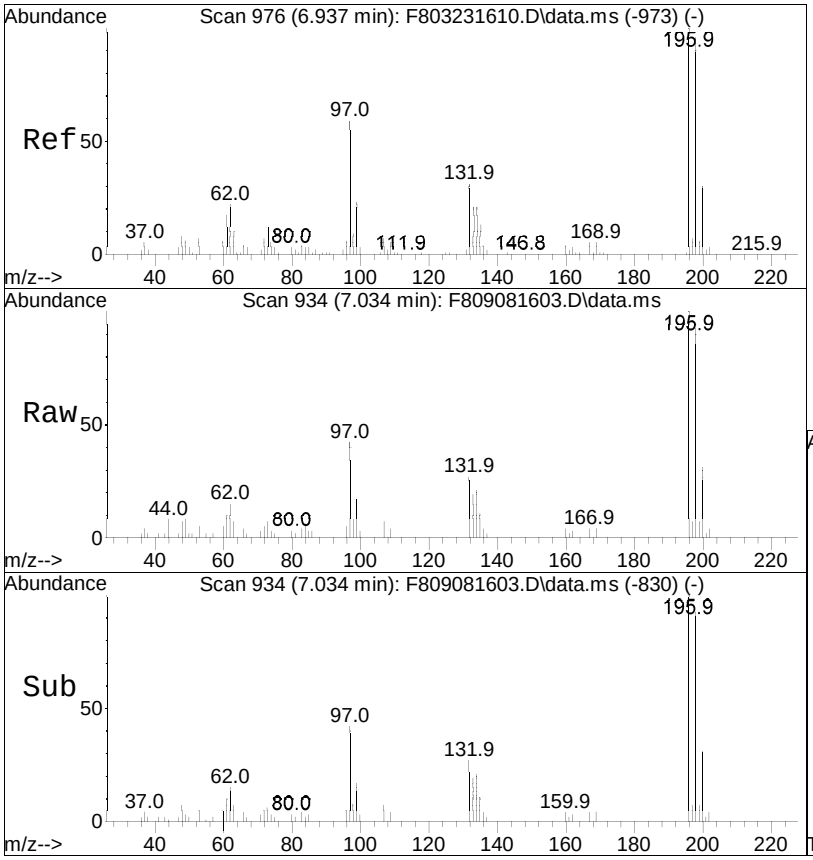


#41
2,4,6-Trichlorophenol
Concen: 0.45 ug/mL
RT: 6.996 min Scan# 926
Delta R.T. -0.000 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:196 Resp: 16359

Ion	Ratio	Lower	Upper
196	100		
198	94.7	73.6	110.4
200	30.1	23.5	35.3

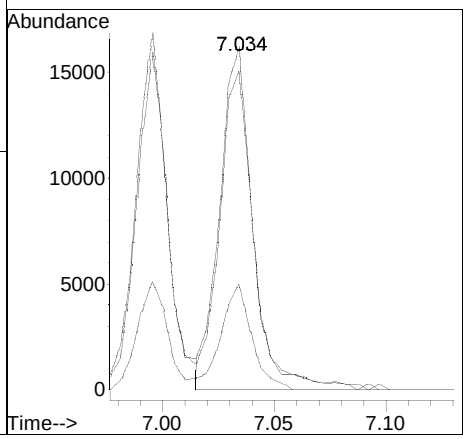


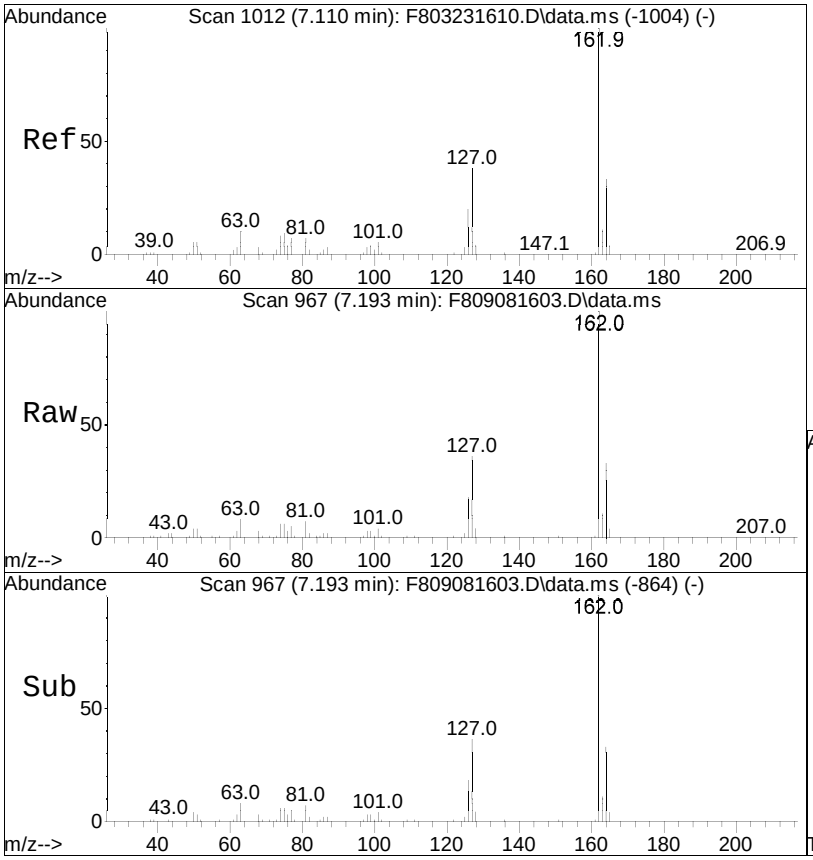


#42
2,4,5-Trichlorophenol
Concen: 0.52 ug/mL M4
RT: 7.034 min Scan# 934
Delta R.T. 0.000 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:196 Resp: 16990

Ion	Ratio	Lower	Upper
196	100		
198	94.3	73.2	109.8
200	29.0	23.9	35.9

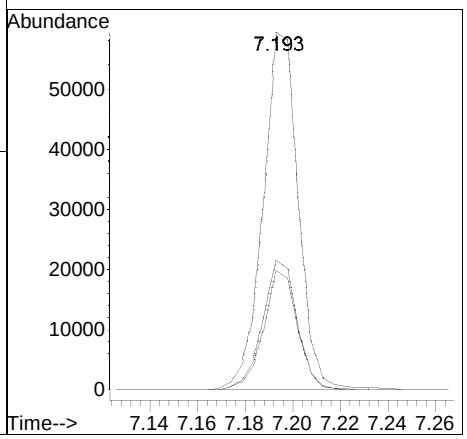


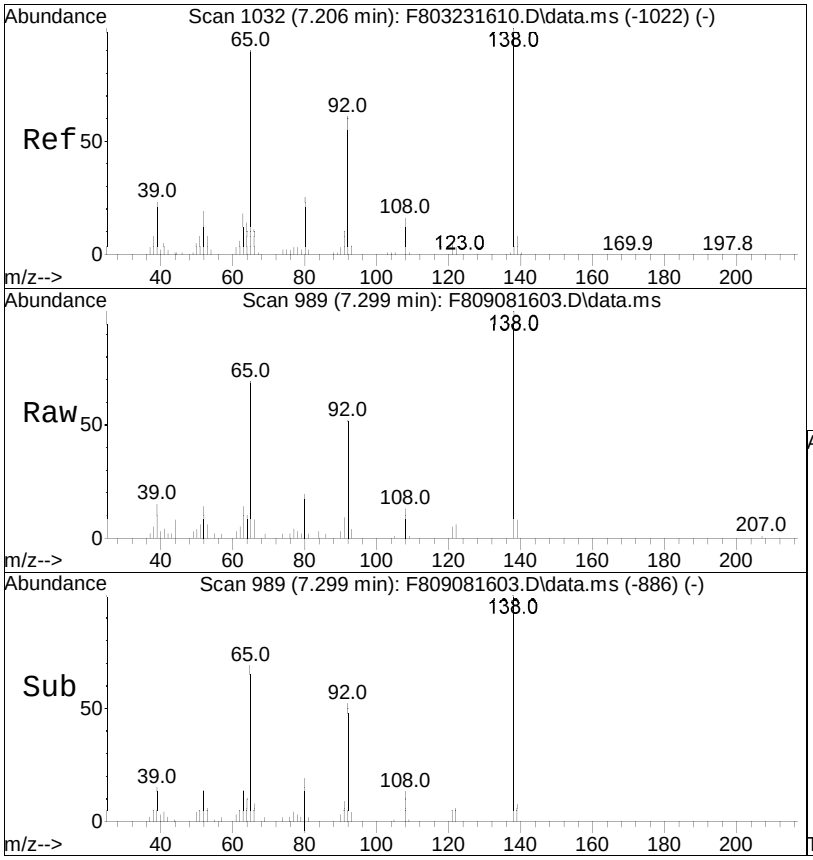


#45
2-Chloronaphthalene
Concen: 0.56 ug/mL
RT: 7.193 min Scan# 967
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:162 Resp: 60425

Ion	Ratio	Lower	Upper
162	100		
164	32.3	26.4	39.6
127	35.7	30.2	45.2

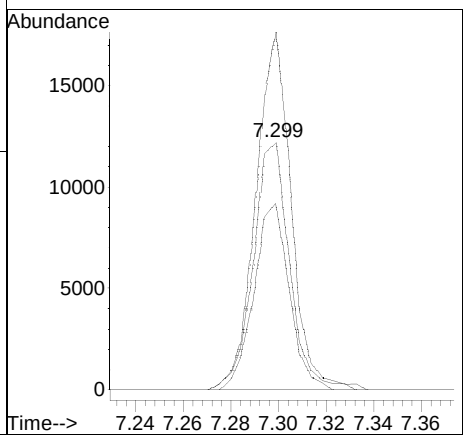


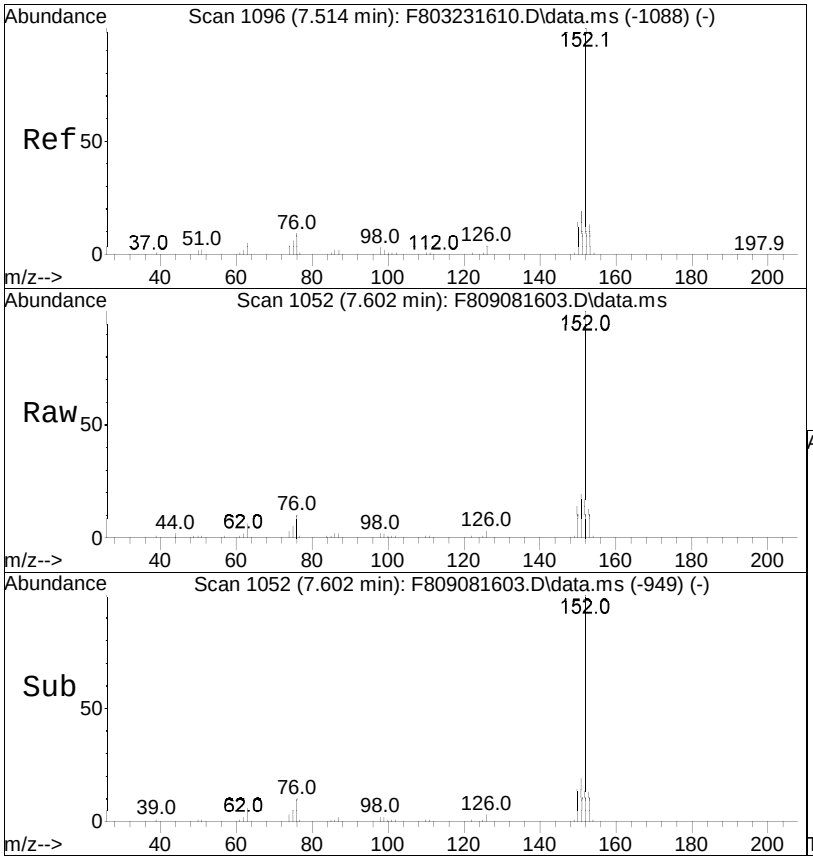


#46
2-Nitroaniline
Concen: 0.51 ug/mL
RT: 7.299 min Scan# 989
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion: 65 Resp: 12843

Ion	Ratio	Lower	Upper
65	100		
92	73.4	61.0	91.4
138	140.1	122.0	183.0

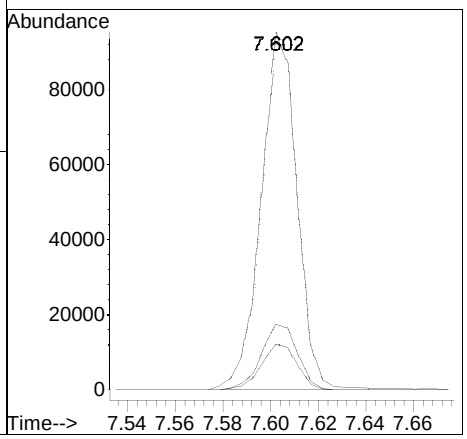


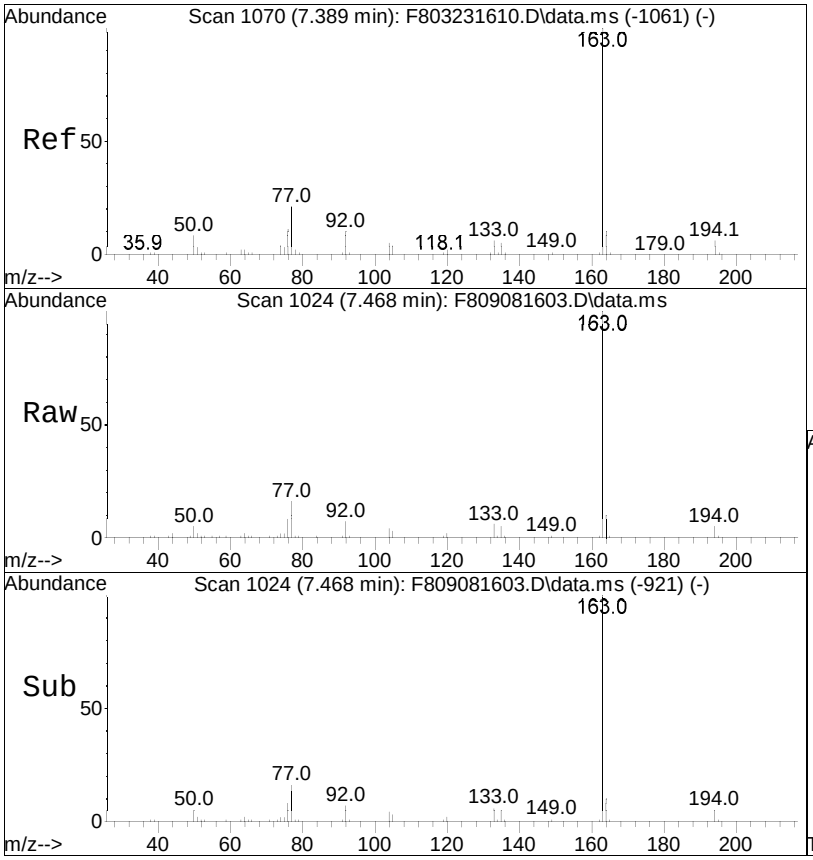


#47
Acenaphthylene
Concen: 0.55 ug/mL
RT: 7.602 min Scan# 1052
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:152 Resp: 98480

Ion	Ratio	Lower	Upper
152	100		
151	18.7	15.8	23.8
153	12.9	10.6	16.0

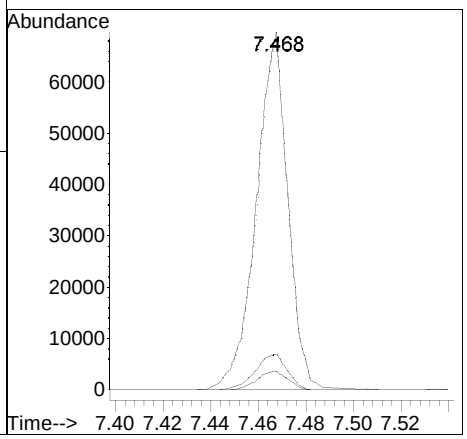


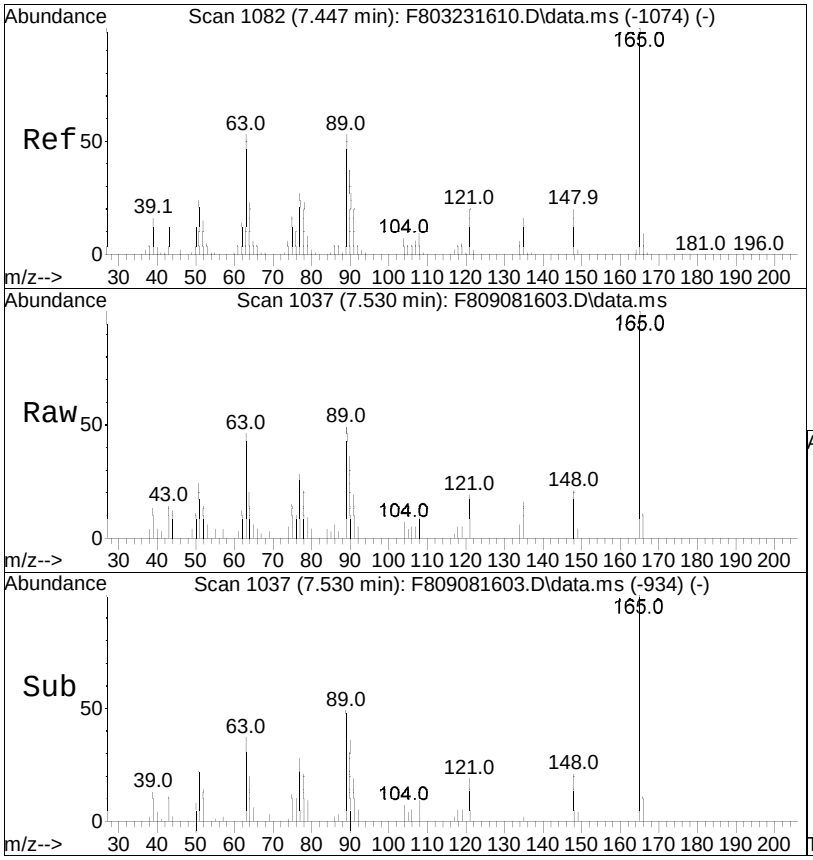


#48
Dimethylphthalate
Concen: 0.54 ug/mL
RT: 7.468 min Scan# 1024
Delta R.T. -0.004 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:163 Resp: 63425

Ion	Ratio	Lower	Upper
163	100		
194	5.2	4.4	6.6
164	10.2	8.3	12.5

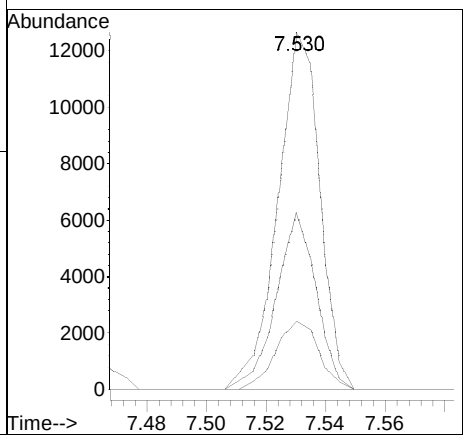


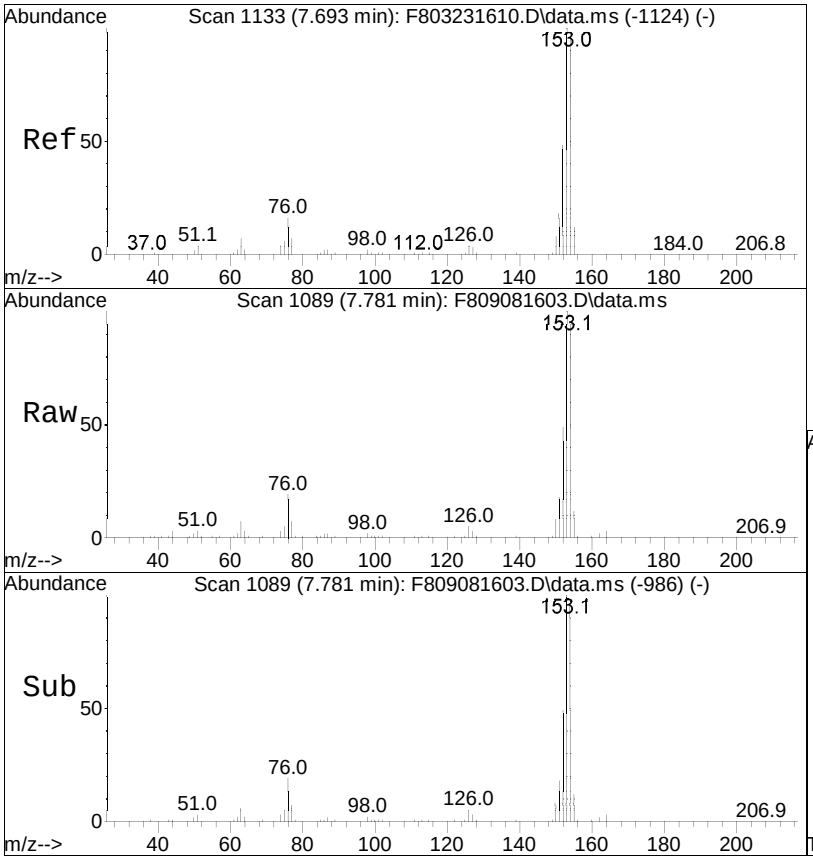


#49
2,6-Dinitrotoluene
Concen: 0.45 ug/mL
RT: 7.530 min Scan# 1037
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:165 Resp: 12320

Ion	Ratio	Lower	Upper
165	100		
89	47.3	40.5	60.7
121	19.9	16.6	25.0

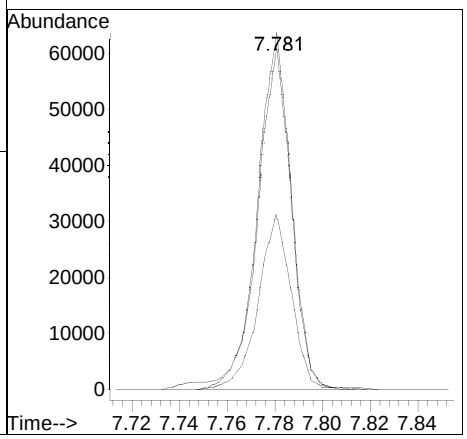


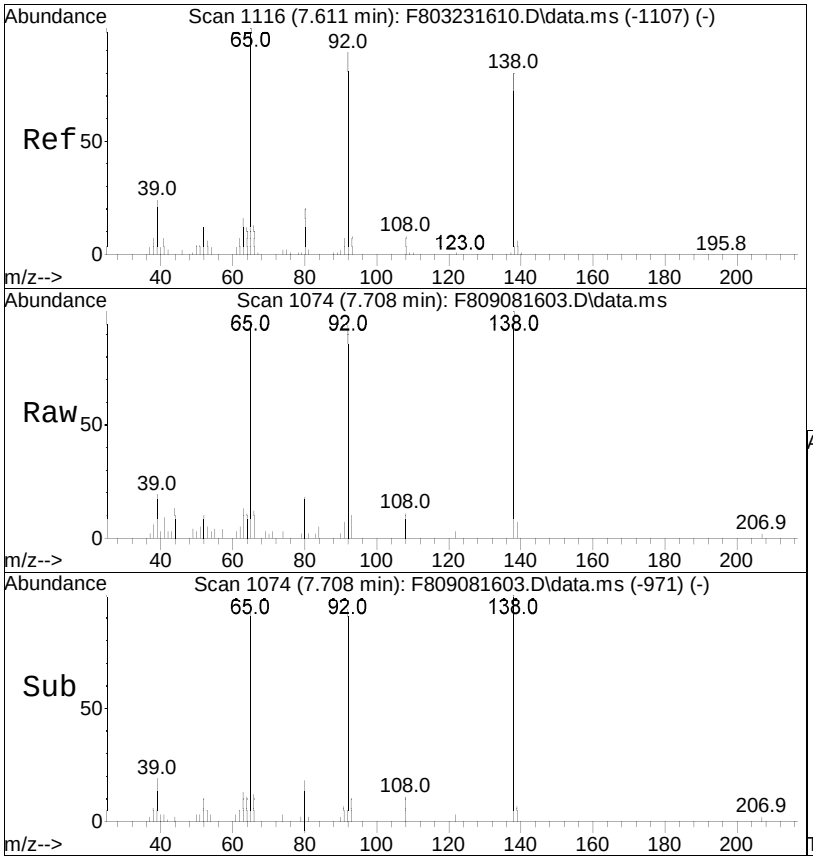


#50
Acenaphthene
Concen: 0.57 ug/mL
RT: 7.781 min Scan# 1089
Delta R.T. -0.004 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:153 Resp: 62506

Ion	Ratio	Lower	Upper
153	100		
154	93.7	75.4	113.0
152	48.8	39.3	58.9

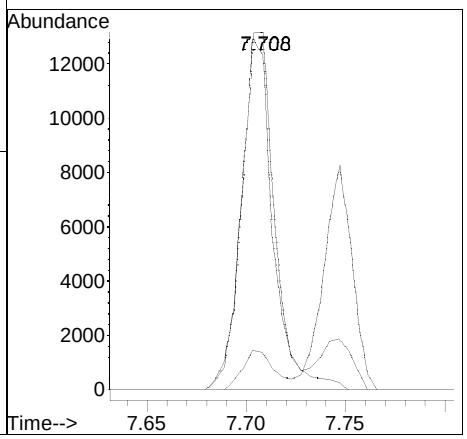


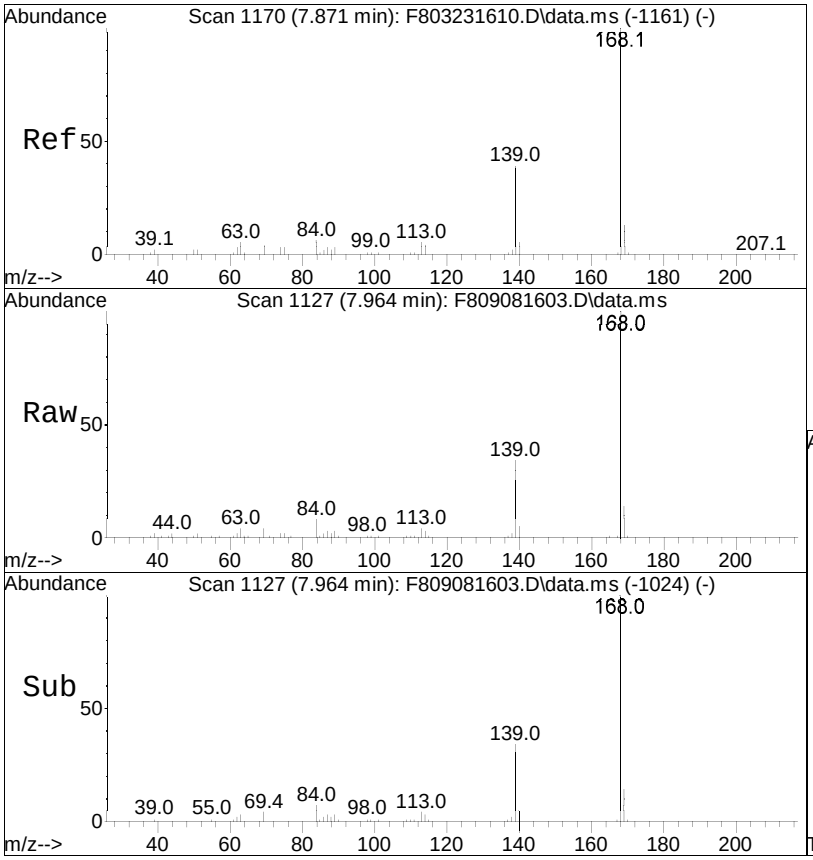


#51
3-Nitroaniline
Concen: 0.49 ug/mL
RT: 7.708 min Scan# 1074
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:138 Resp: 15195

Ion	Ratio	Lower	Upper
138	100		
108	10.1	8.9	13.3
92	92.7	72.2	108.4

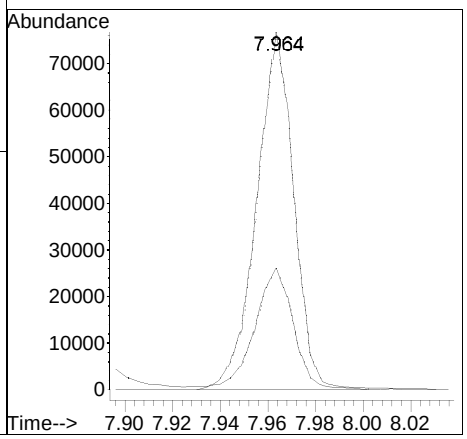


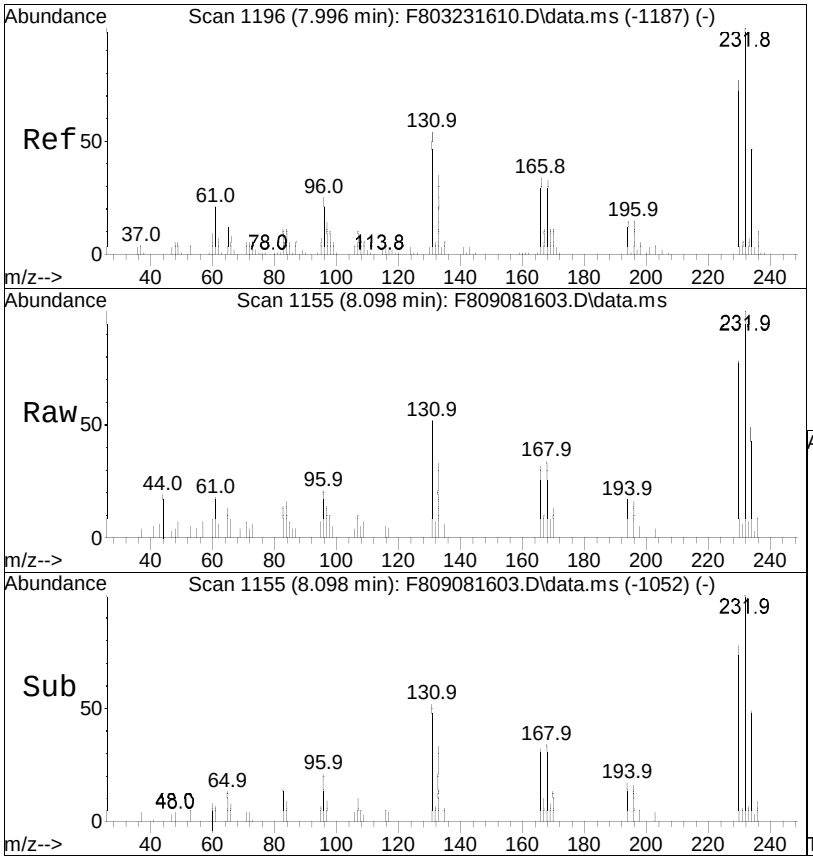


#53
Dibenzofuran
Concen: 0.58 ug/mL
RT: 7.964 min Scan# 1127
Delta R.T. -0.004 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:168 Resp: 82220

Ion	Ratio	Lower	Upper
168	100		
139	35.6	28.8	43.2

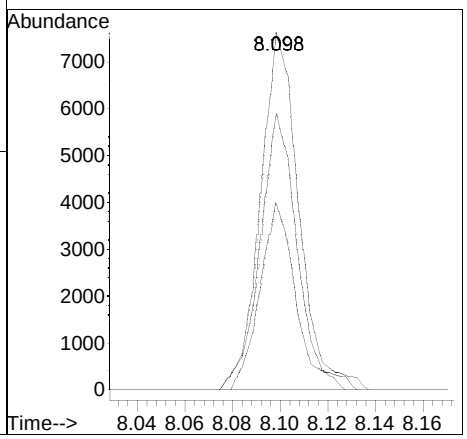


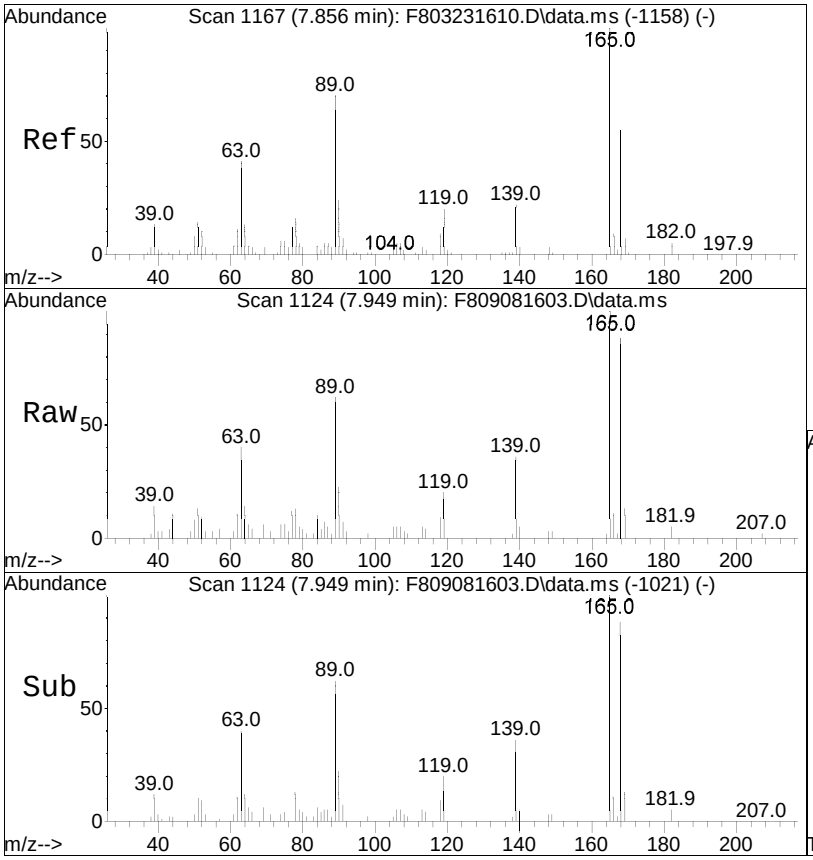


#54
2,3,4,6-Tetrachlorophenol
Concen: 0.39 ug/mL
RT: 8.098 min Scan# 1155
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:232 Resp: 8531

Ion	Ratio	Lower	Upper
232	100		
131	48.5	43.1	64.7
230	75.1	63.0	94.6

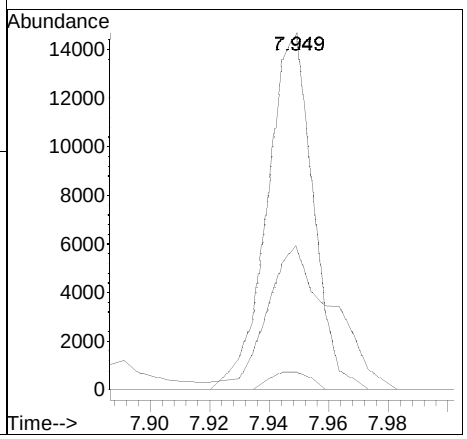


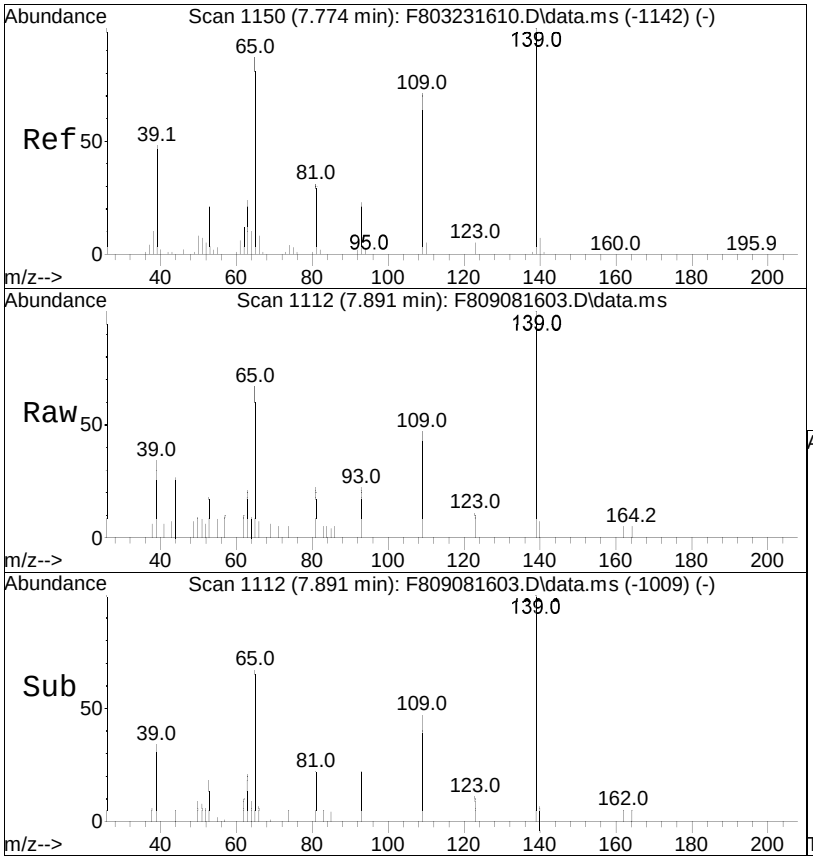


#55
2,4-Dinitrotoluene
Concen: 0.45 ug/mL
RT: 7.949 min Scan# 1124
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:165 Resp: 15625

Ion	Ratio	Lower	Upper
165	100		
63	58.1	30.9	46.3#
182	0.0	3.5	5.3#

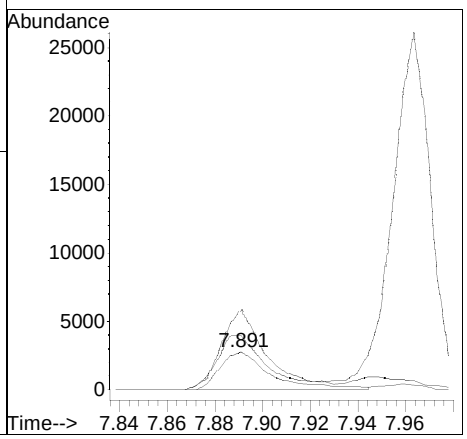


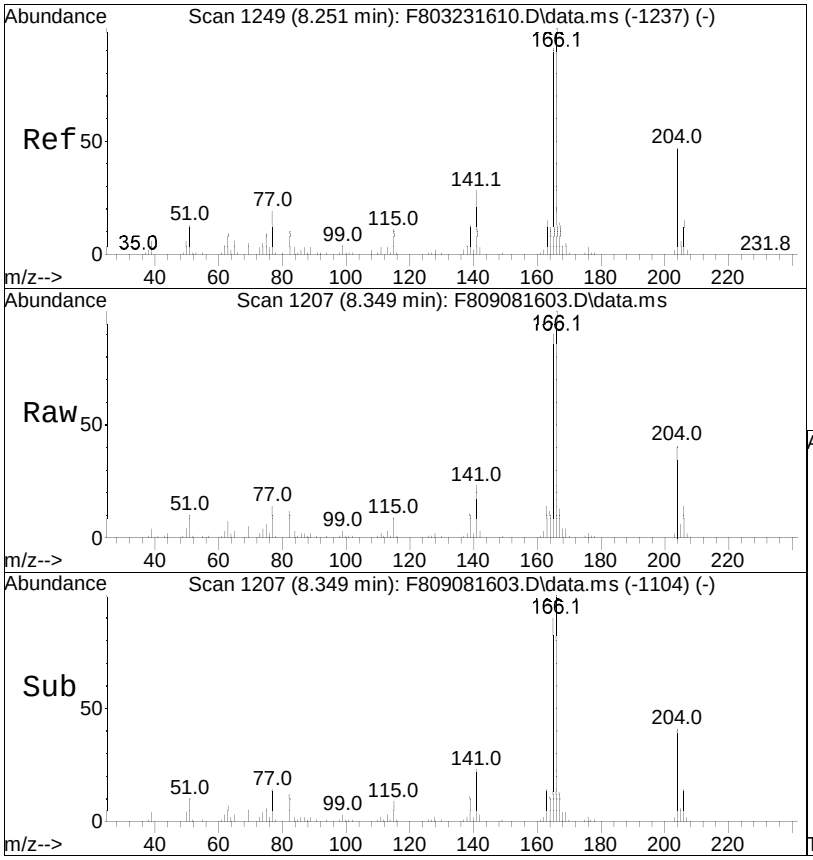


#56
4-Nitrophenol
Concen: 0.37 ug/mL
RT: 7.891 min Scan# 1112
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:109 Resp: 4283

Ion	Ratio	Lower	Upper
109	100		
139	185.0	149.7	224.5
65	141.0	107.3	160.9

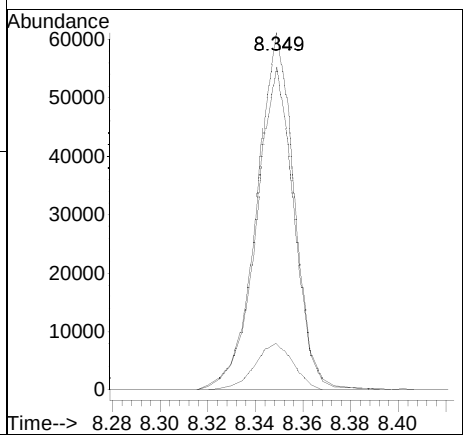


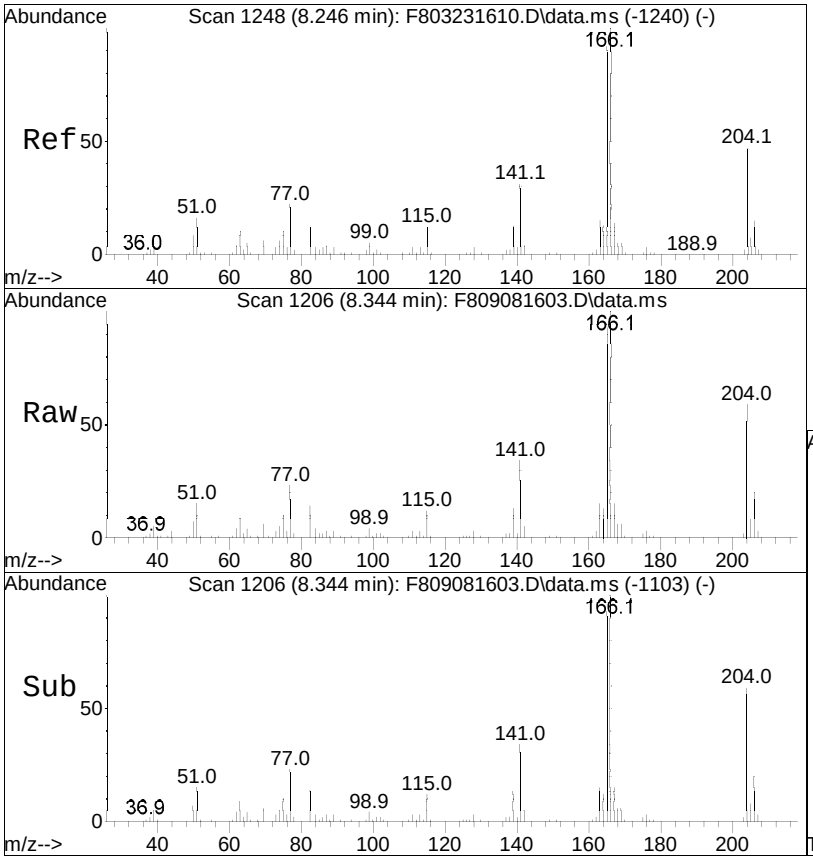


#57
Fluorene
Concen: 0.57 ug/mL
RT: 8.349 min Scan# 1207
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:166 Resp: 66941

Ion	Ratio	Lower	Upper
166	100		
165	90.6	72.9	109.3
167	13.4	10.9	16.3

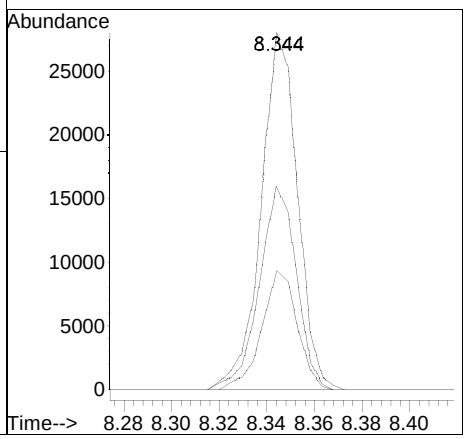


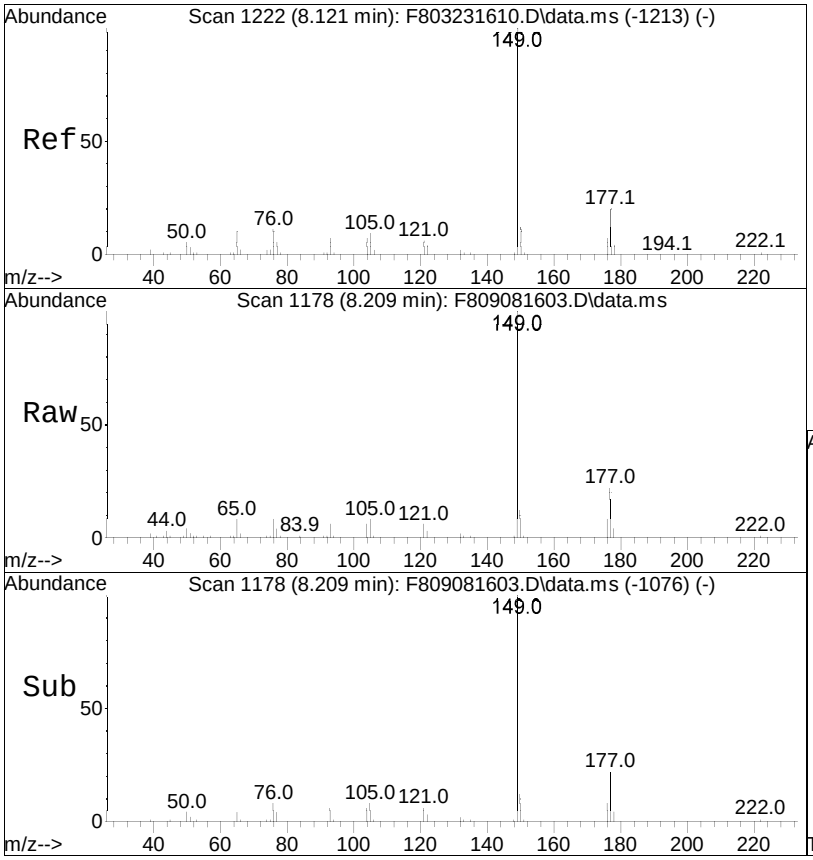


#58
4-Chlorophenyl-phenylether
Concen: 0.56 ug/mL
RT: 8.344 min Scan# 1206
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:204 Resp: 29723

Ion	Ratio	Lower	Upper
204	100		
206	32.7	25.9	38.9
141	58.3	46.2	69.4

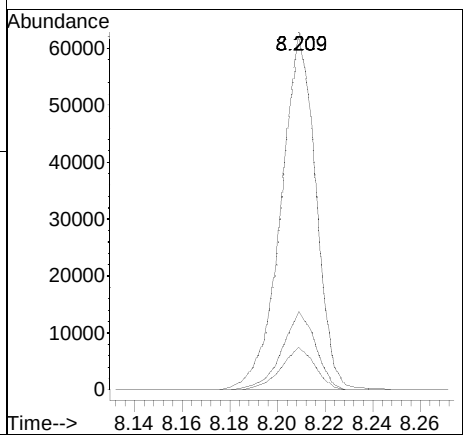


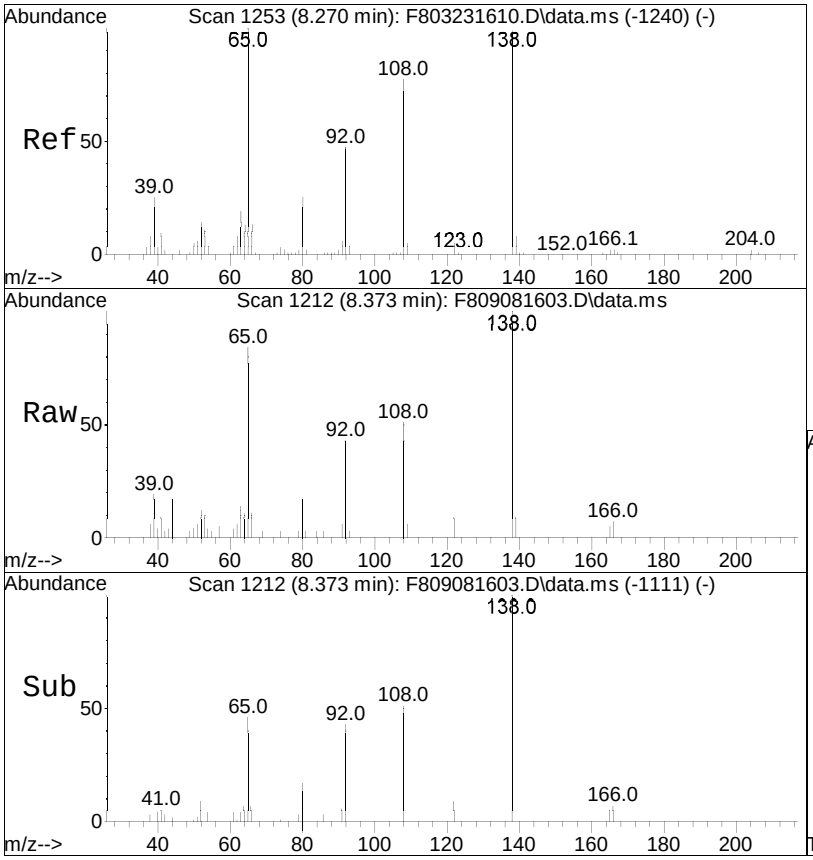


#59
Diethylphthalate
Concen: 0.53 ug/mL
RT: 8.209 min Scan# 1178
Delta R.T. -0.010 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:149 Resp: 63123

Ion	Ratio	Lower	Upper
149	100		
177	21.4	16.6	24.8
150	11.7	9.8	14.6

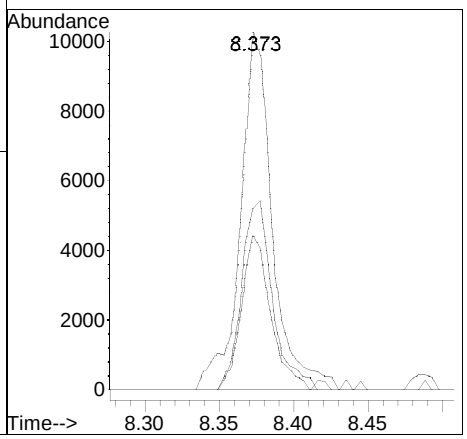


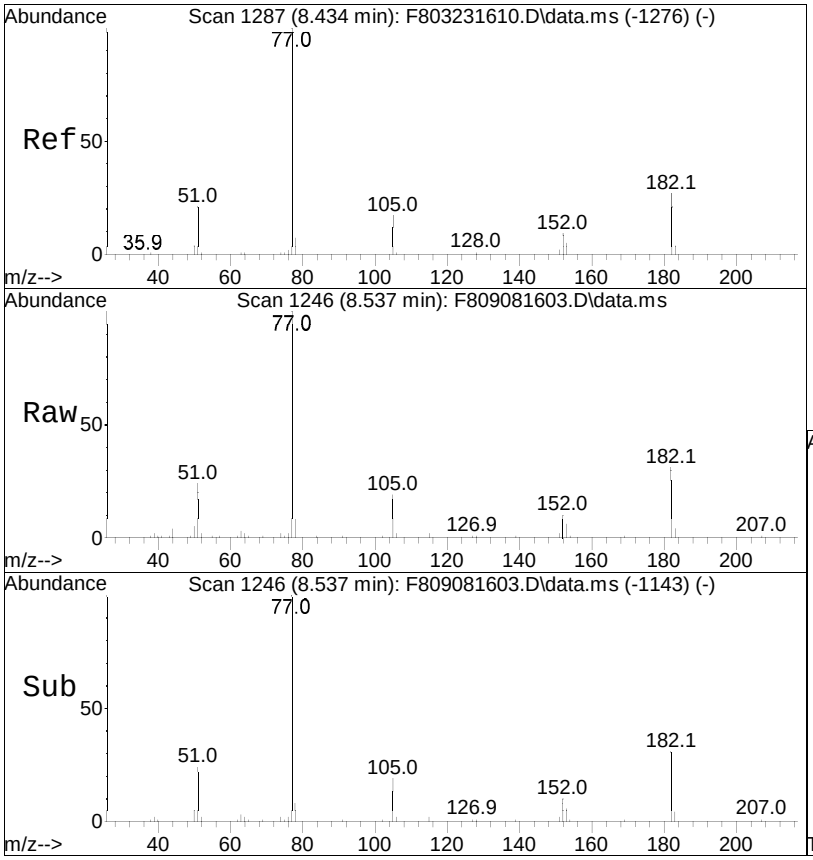


#60
4-Nitroaniline
Concen: 0.48 ug/mL
RT: 8.373 min Scan# 1212
Delta R.T. -0.014 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:138 Resp: 15374

Ion	Ratio	Lower	Upper
138	100		
92	40.3	32.7	49.1
108	50.6	45.8	68.6

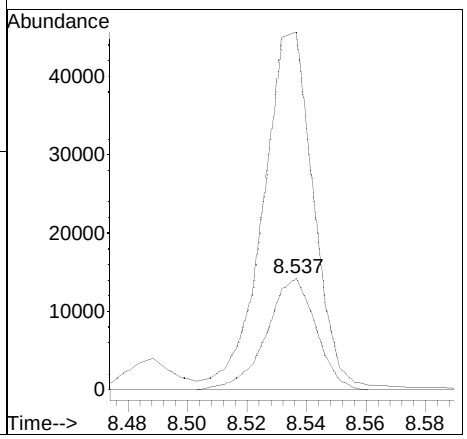


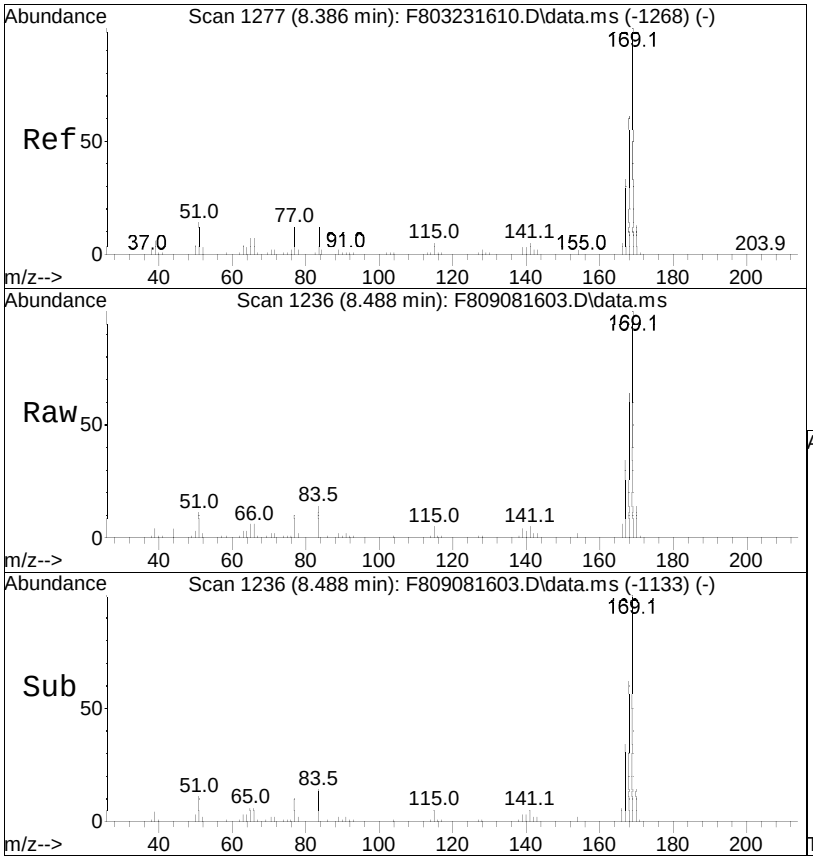


#63
Azobenzene
Concen: 0.52 ug/mL
RT: 8.537 min Scan# 1246
Delta R.T. -0.004 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:182 Resp: 16358

Ion	Ratio	Lower	Upper
182	100		
77	329.2	54.9	631.7

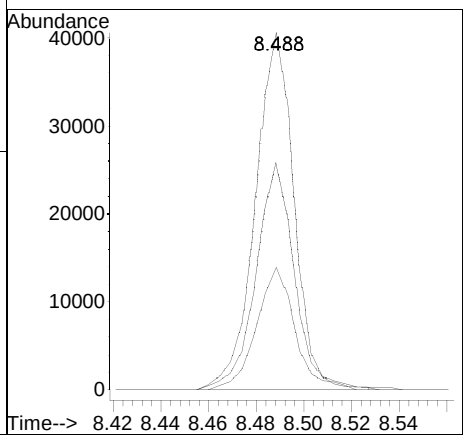


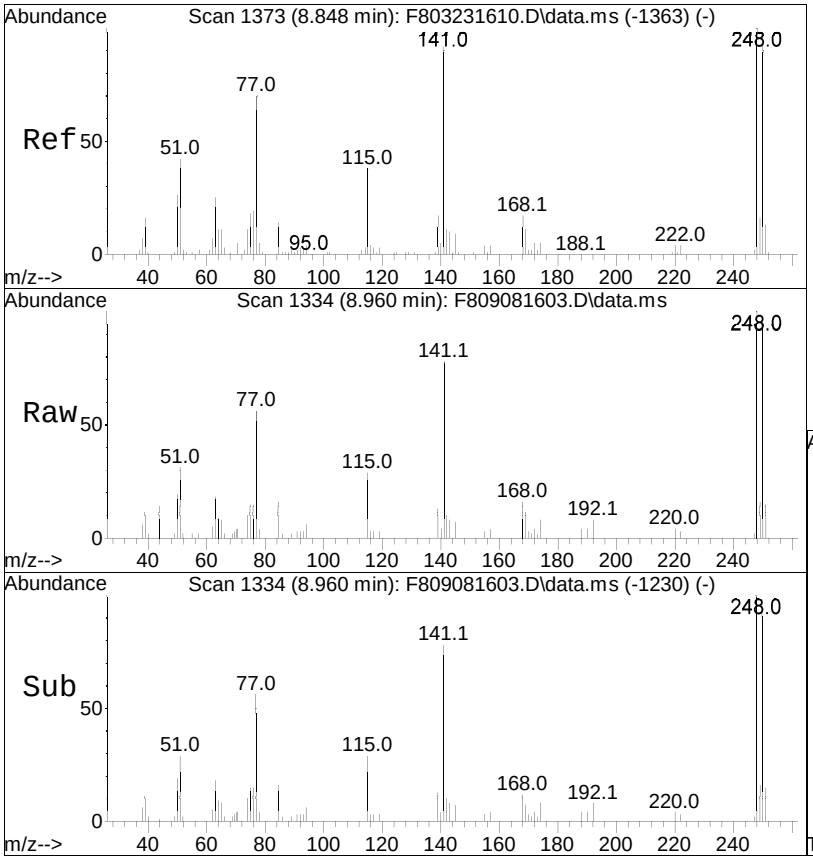


#64
n-Nitrosodiphenylamine
Concen: 0.55 ug/mL
RT: 8.488 min Scan# 1236
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:169 Resp: 45565

Ion	Ratio	Lower	Upper
169	100		
168	63.5	49.4	74.2
167	34.3	26.7	40.1

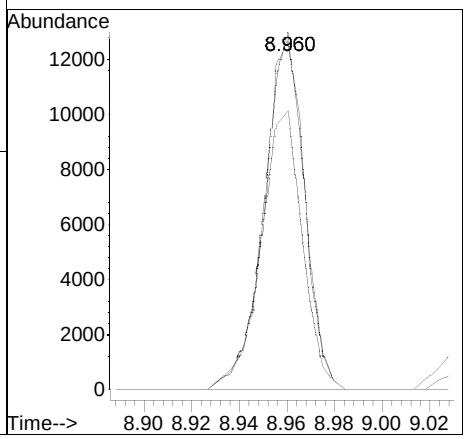


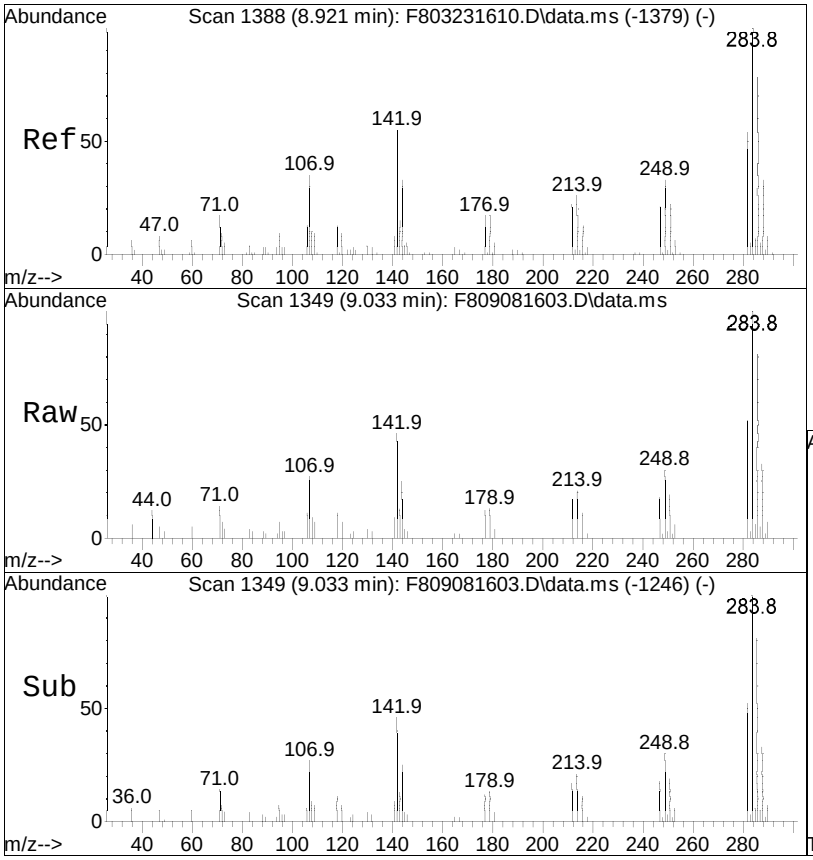


#66
4-Bromophenyl-phenylether
Concen: 0.52 ug/mL
RT: 8.960 min Scan# 1334
Delta R.T. 0.000 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:248 Resp: 15066

Ion	Ratio	Lower	Upper
248	100		
250	99.3	77.3	115.9
141	81.0	61.7	92.5

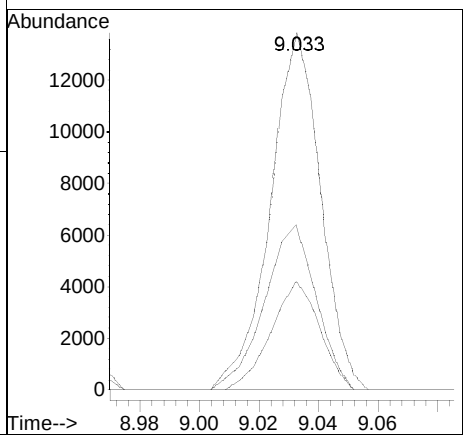


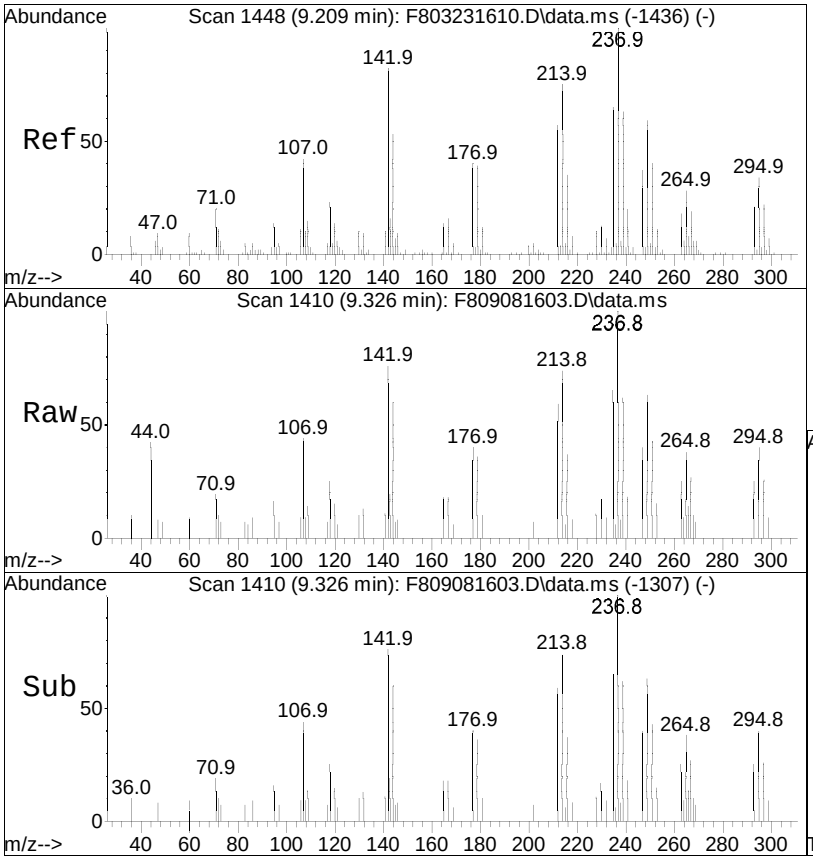


#67
Hexachlorobenzene
Concen: 0.54 ug/mL
RT: 9.033 min Scan# 1349
Delta R.T. -0.004 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:284 Resp: 16198

Ion	Ratio	Lower	Upper
284	100		
142	47.7	37.8	56.6
249	29.4	24.8	37.2

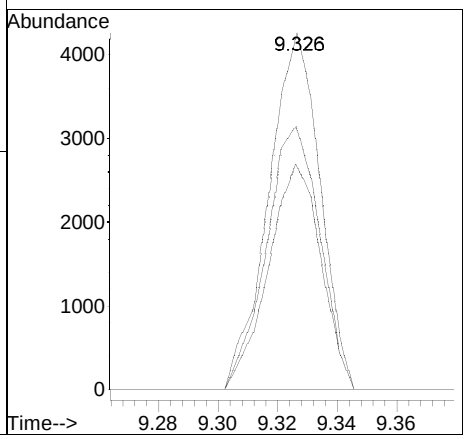


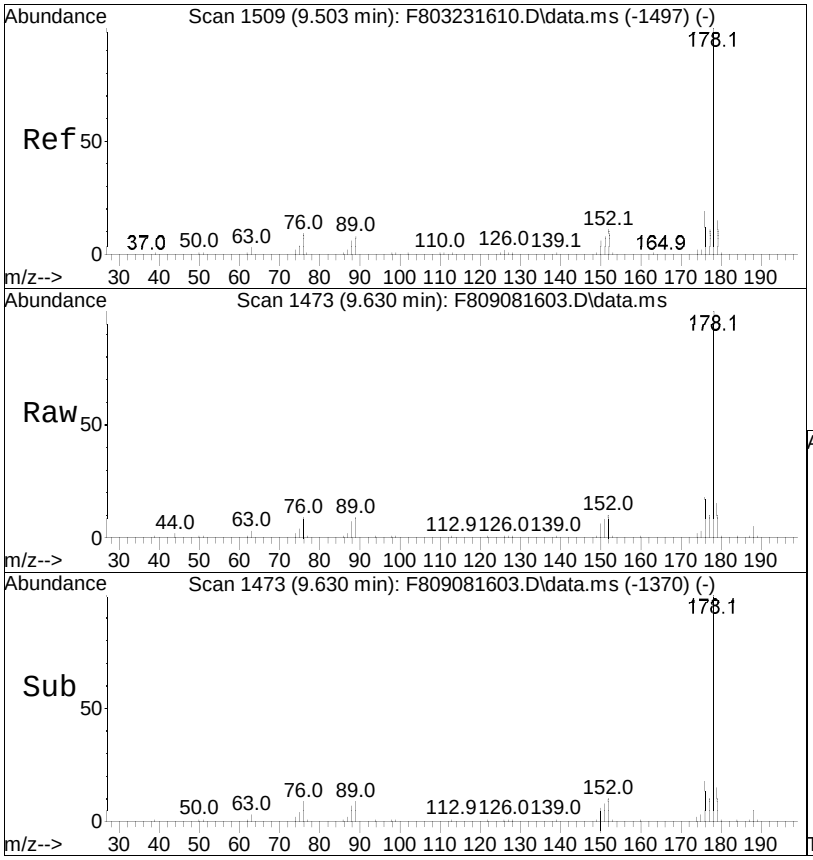


#70
Pentachloronitrobenzene
Concen: 0.43 ug/ml
RT: 9.326 min Scan# 1410
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:237 Resp: 5105

Ion	Ratio	Lower	Upper
237	100		
214	76.7	63.4	95.2
249	64.5	54.9	82.3

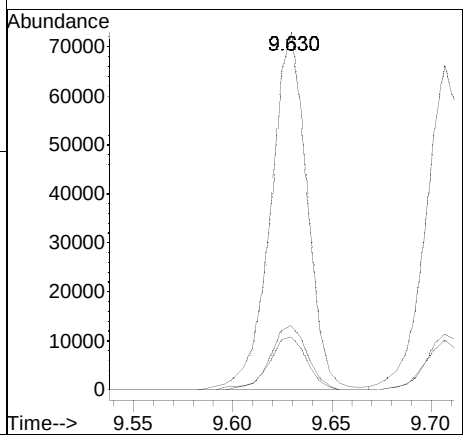


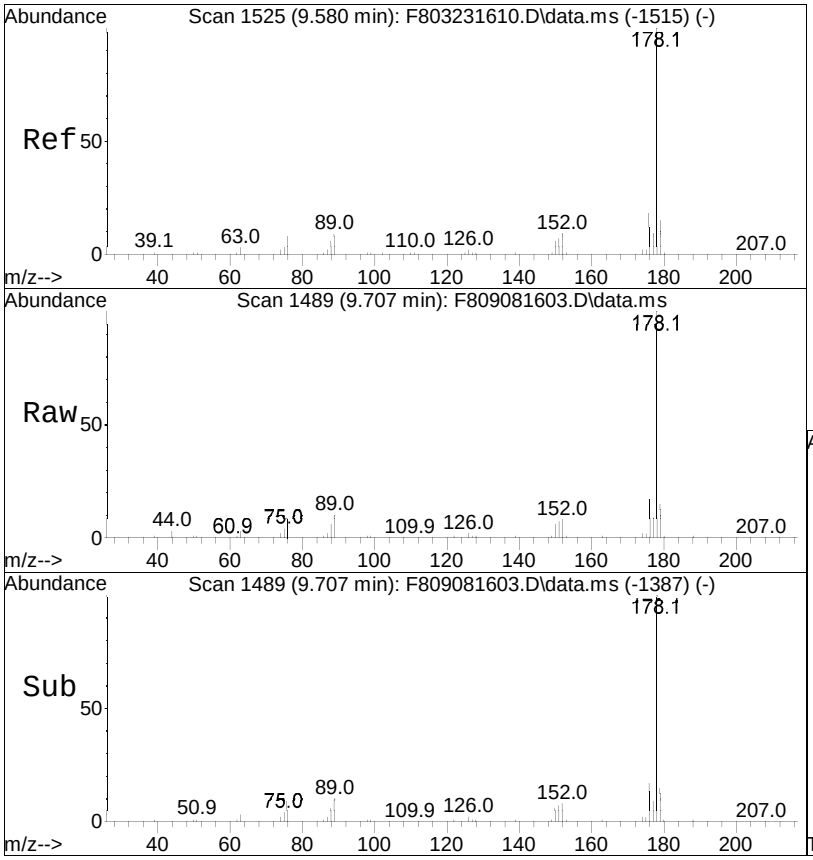


#71
Phenanthrene
Concen: 0.56 ug/mL
RT: 9.630 min Scan# 1473
Delta R.T. -0.004 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:178 Resp: 93330

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.4	18.6
176	18.1	15.0	22.6

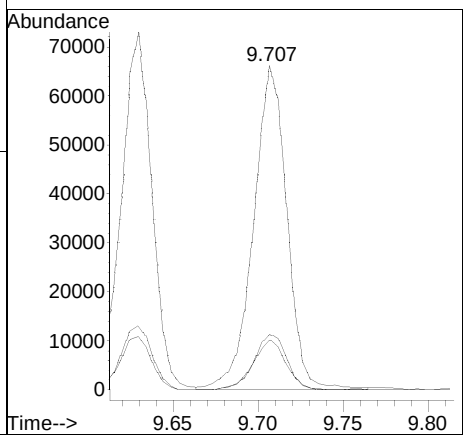


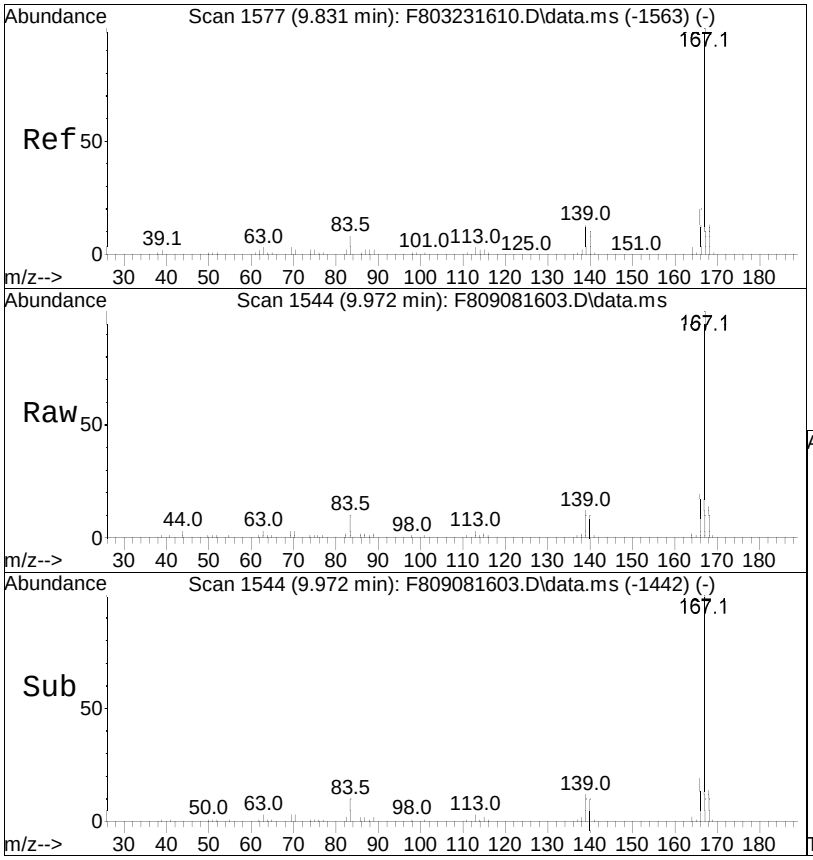


#72
Anthracene
Concen: 0.54 ug/mL M4
RT: 9.707 min Scan# 1489
Delta R.T. -0.009 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:178 Resp: 89866

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.6	18.8
176	17.1	14.6	22.0

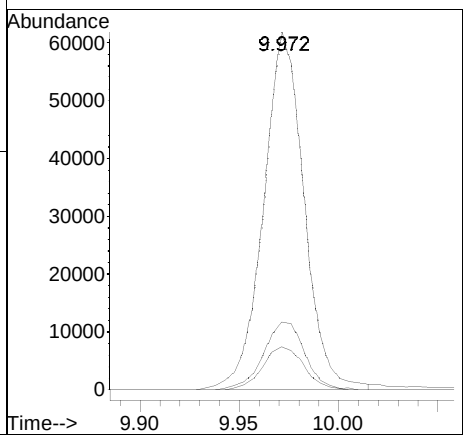


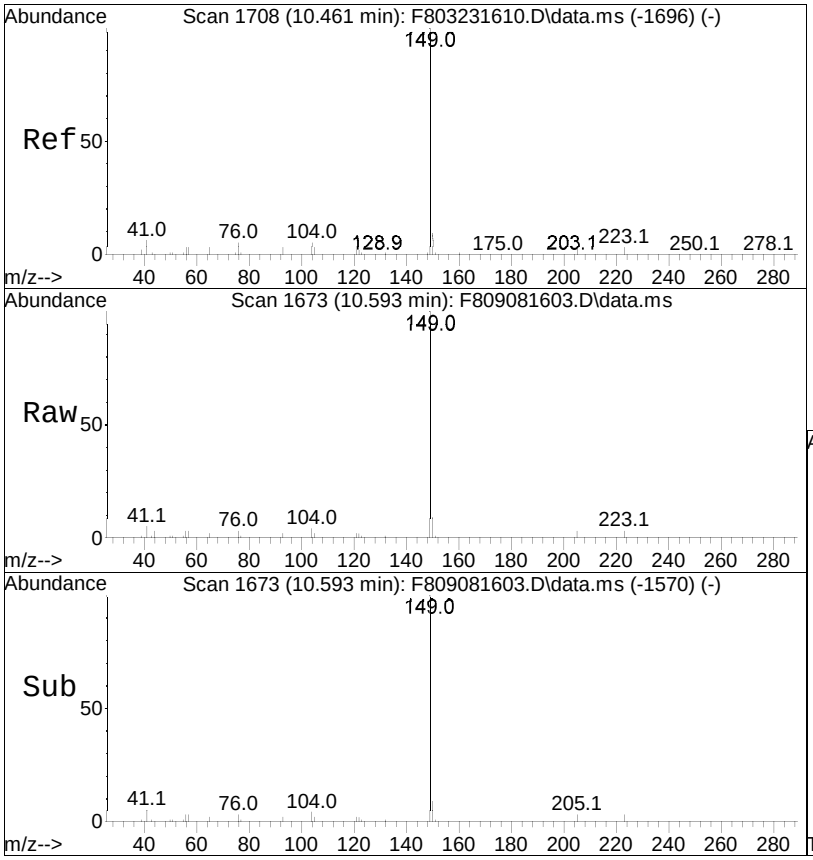


#73
Carbazole
Concen: 0.55 ug/mL
RT: 9.972 min Scan# 1544
Delta R.T. -0.009 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:167 Resp: 87072

Ion	Ratio	Lower	Upper
167	100		
139	12.4	10.3	15.5
166	19.5	15.9	23.9

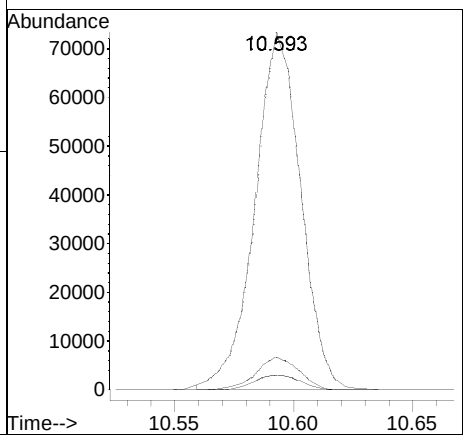


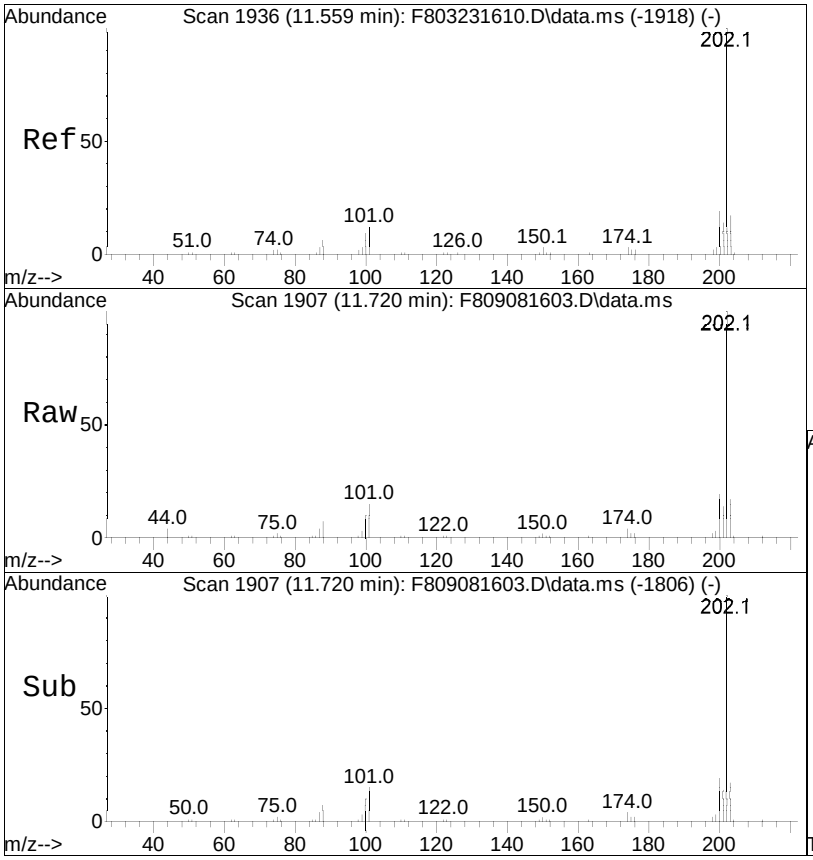


#74
Di-n-butylphthalate
Concen: 0.50 ug/mL
RT: 10.593 min Scan# 1673
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:149 Resp: 95925

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.4	11.2
104	4.4	3.5	5.3

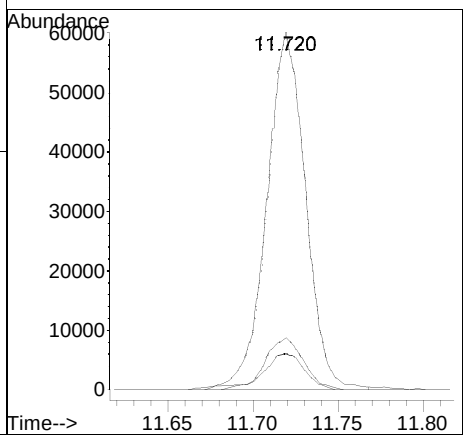


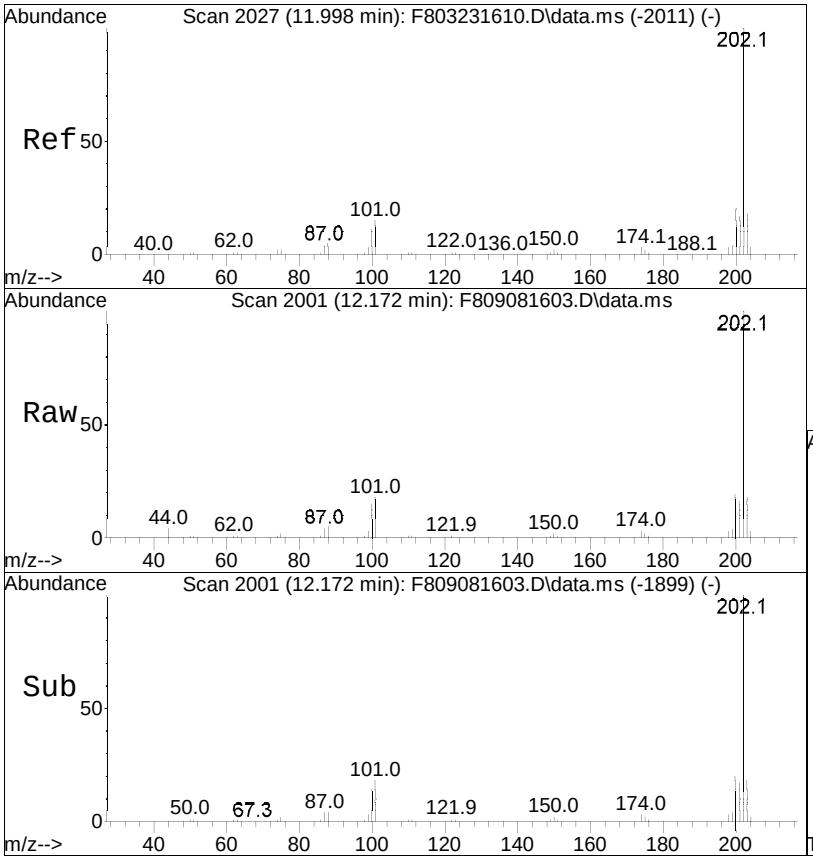


#75
Fluoranthene
Concen: 0.54 ug/mL
RT: 11.720 min Scan# 1907
Delta R.T. -0.014 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:202 Resp: 94266

Ion	Ratio	Lower	Upper
202	100		
101	14.6	13.4	20.2
100	11.3	9.4	14.2

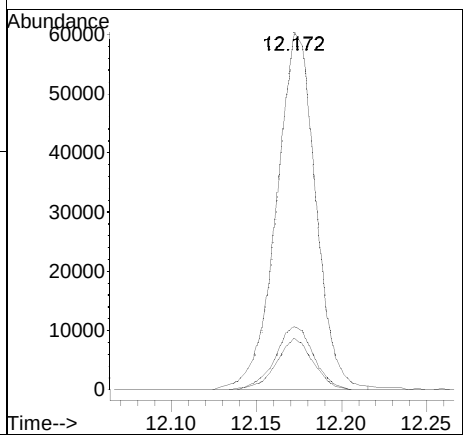


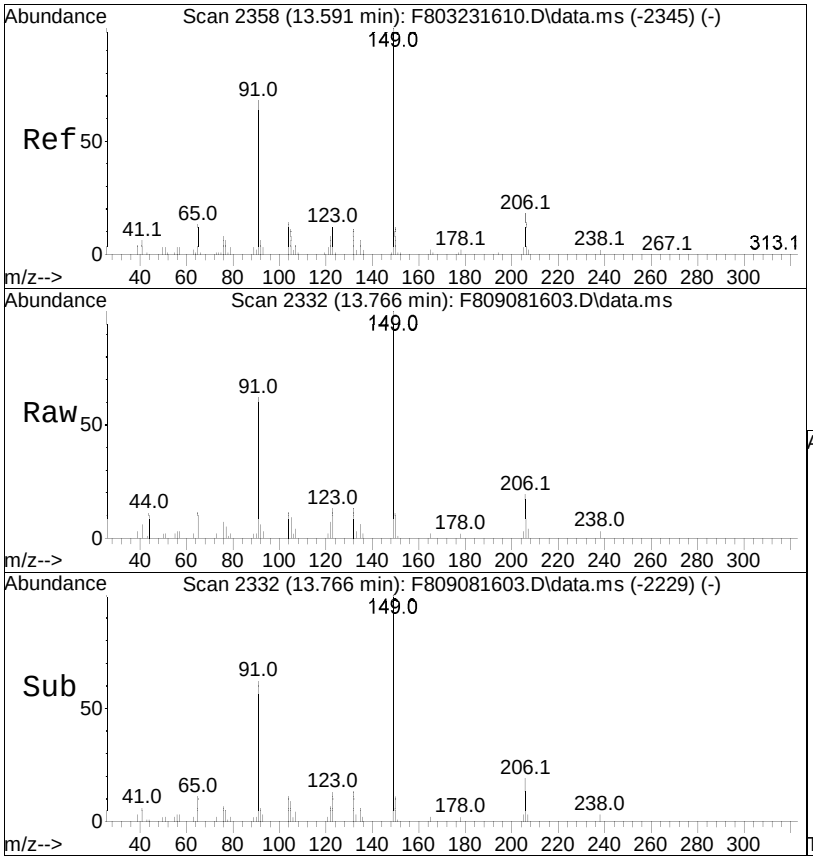


#78
Pyrene
Concen: 0.53 ug/mL
RT: 12.172 min Scan# 2001
Delta R.T. -0.010 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:202 Resp: 95849

Ion	Ratio	Lower	Upper
202	100		
101	17.4	14.9	22.3
100	13.7	11.4	17.2

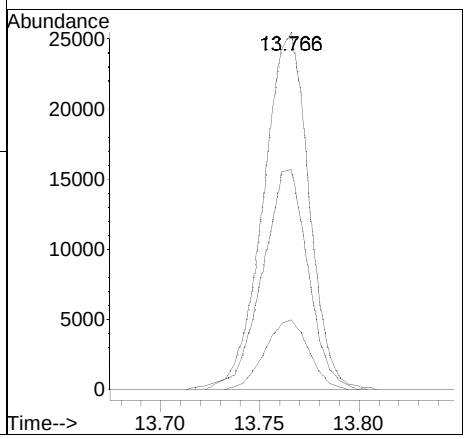


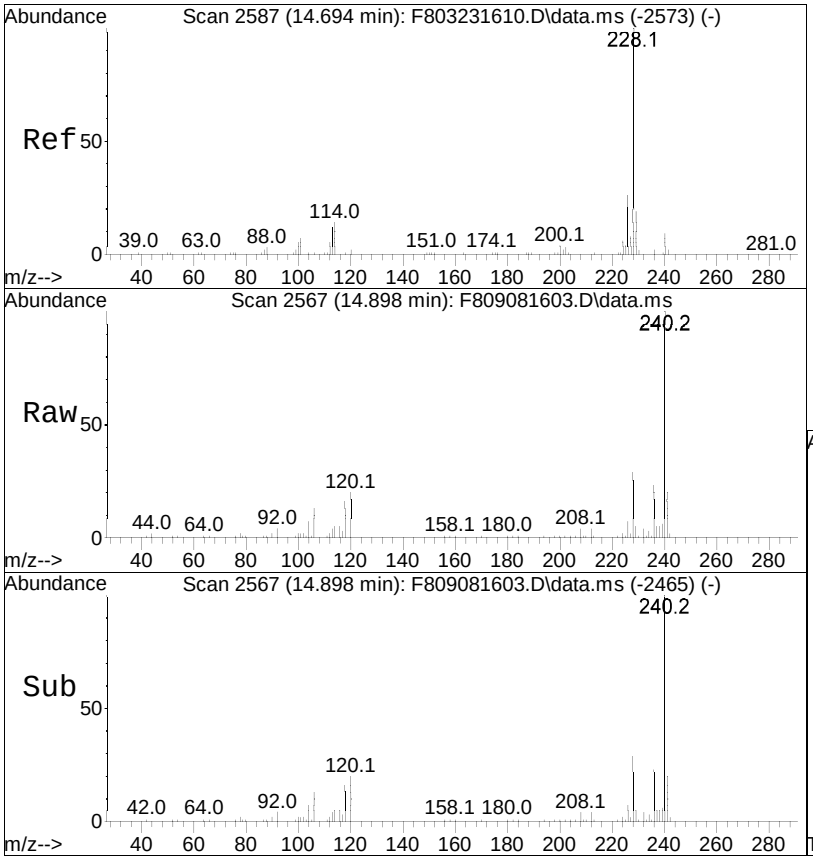


#80
Butylbenzylphthalate
Concen: 0.46 ug/mL
RT: 13.766 min Scan# 2332
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:149 Resp: 40559

Ion	Ratio	Lower	Upper
149	100		
91	61.8	50.8	76.2
206	19.0	15.0	22.4

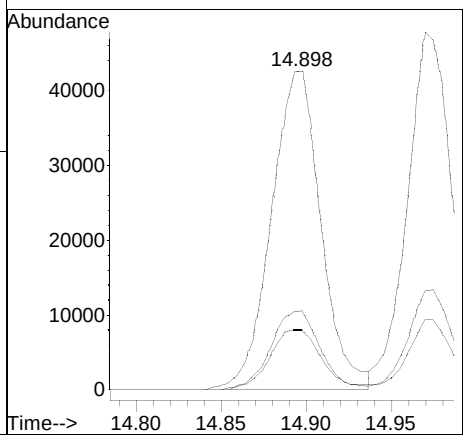


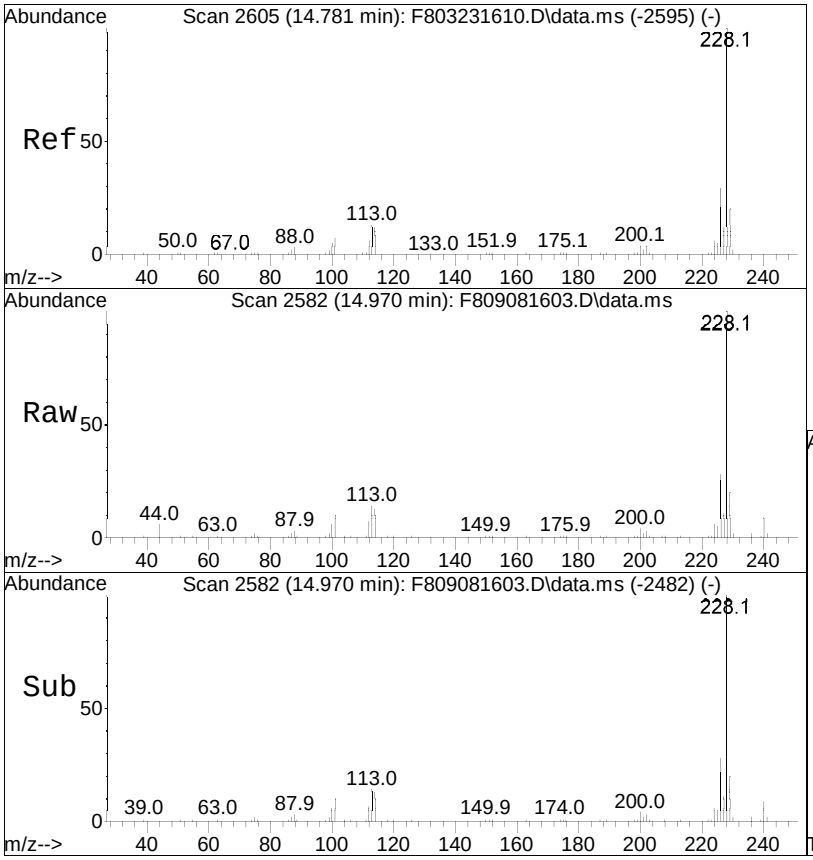


#82
Benz[a]anthracene
Concen: 0.51 ug/mL M6
RT: 14.898 min Scan# 2567
Delta R.T. -0.009 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:228 Resp: 86398

Ion	Ratio	Lower	Upper
228	100		
229	19.4	15.9	23.9
226	24.3	21.2	31.8

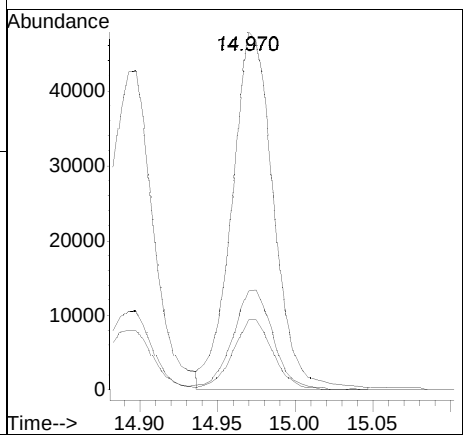


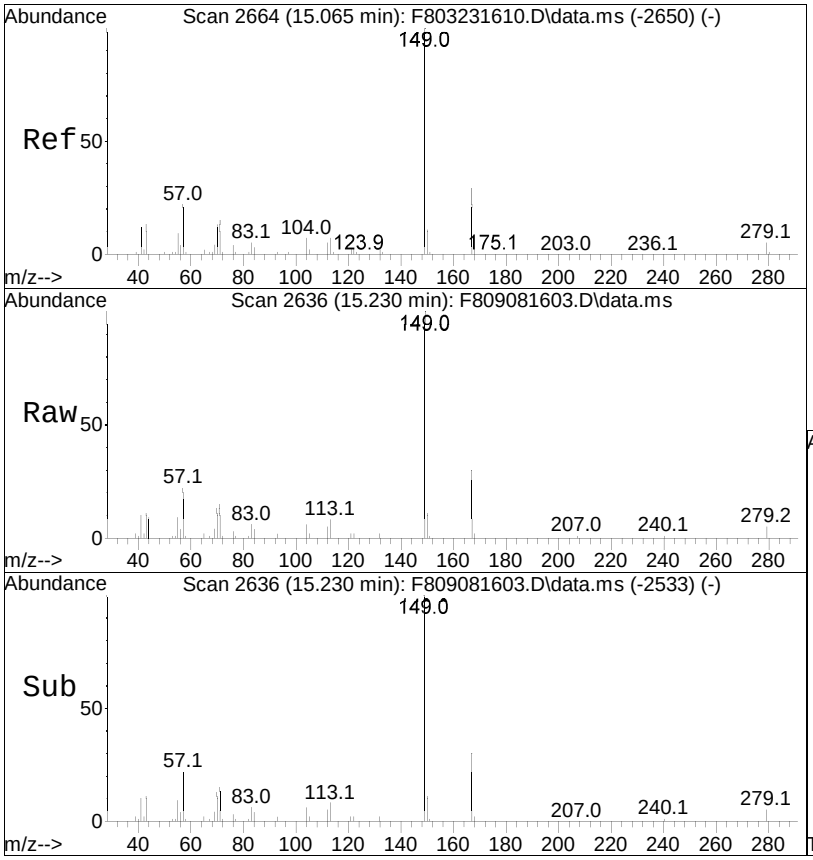


#83
Chrysene
Concen: 0.56 ug/mL M4
RT: 14.970 min Scan# 2582
Delta R.T. -0.019 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:228 Resp: 88495

Ion	Ratio	Lower	Upper
228	100		
226	27.4	23.7	35.5
229	19.2	15.8	23.8

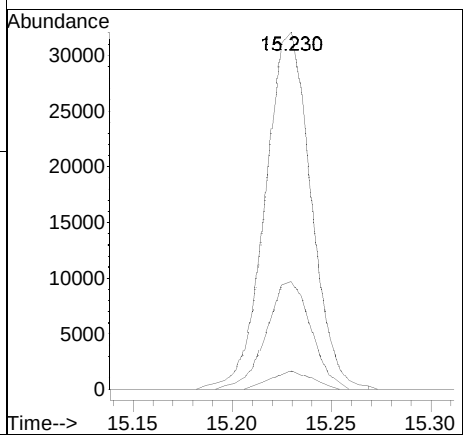


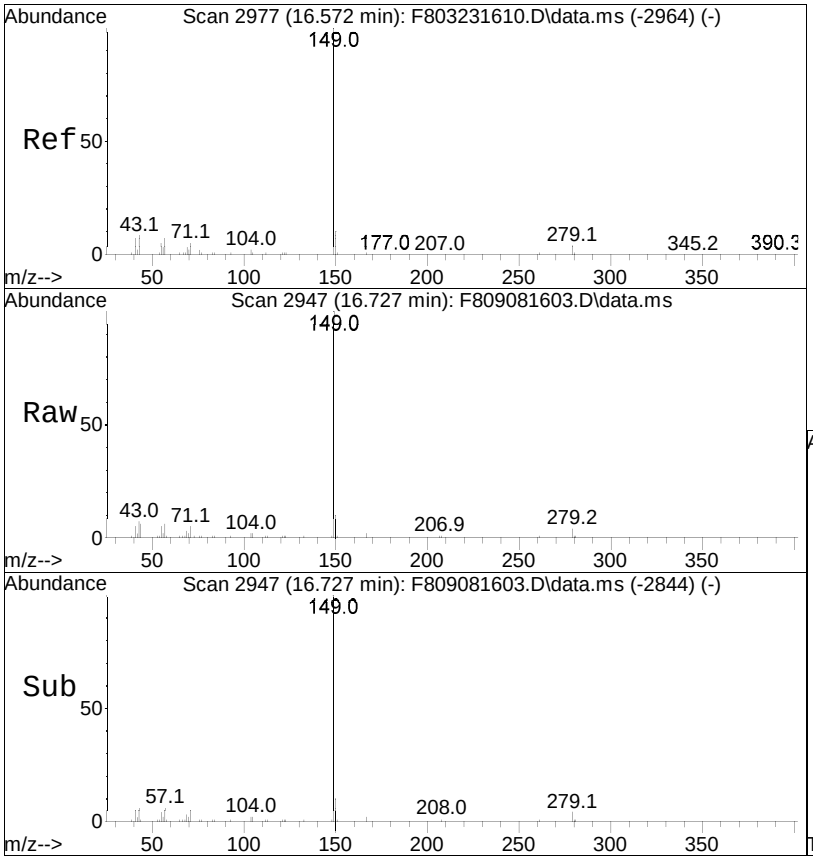


#84
bis(2-Ethylhexyl)phthalate
Concen: 0.44 ug/mL
RT: 15.230 min Scan# 2636
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:149 Resp: 51226

Ion	Ratio	Lower	Upper
149	100		
167	29.8	23.8	35.6
279	4.7	4.0	6.0

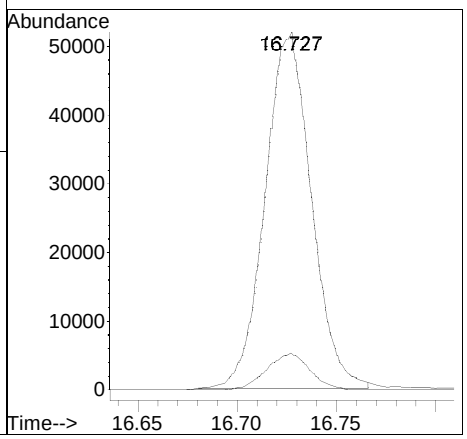


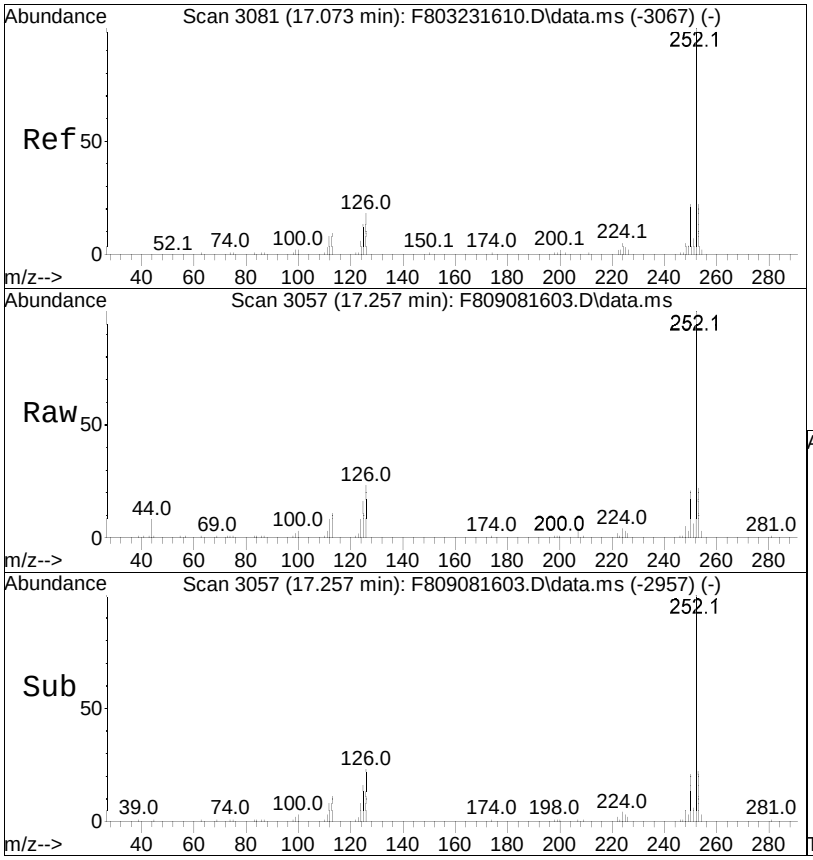


#86
Di-n-octylphthalate
Concen: 0.40 ug/mL
RT: 16.727 min Scan# 2947
Delta R.T. -0.005 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:149 Resp: 83072

Ion	Ratio	Lower	Upper
149	100		
150	9.8	8.1	12.1

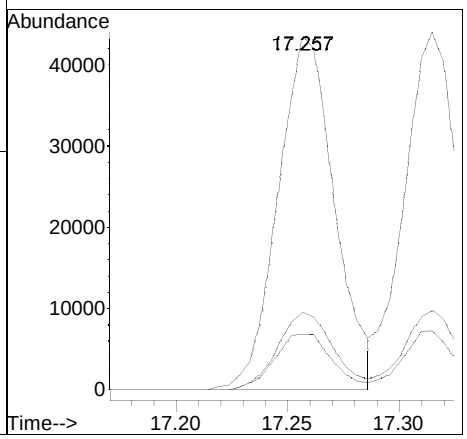


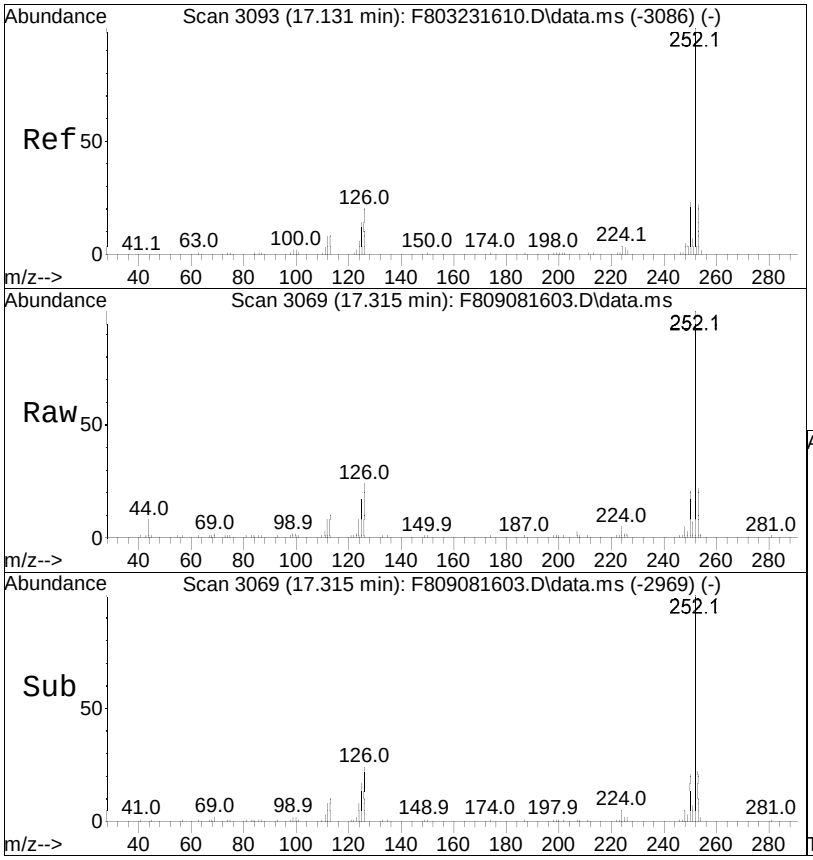


#87
Benzo[b]fluoranthene
Concen: 0.47 ug/mL M6
RT: 17.257 min Scan# 3057
Delta R.T. -0.019 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:252 Resp: 76415

Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.5	26.3
125	16.0	13.7	20.5

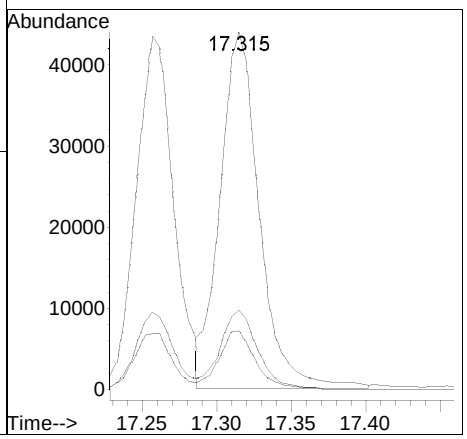


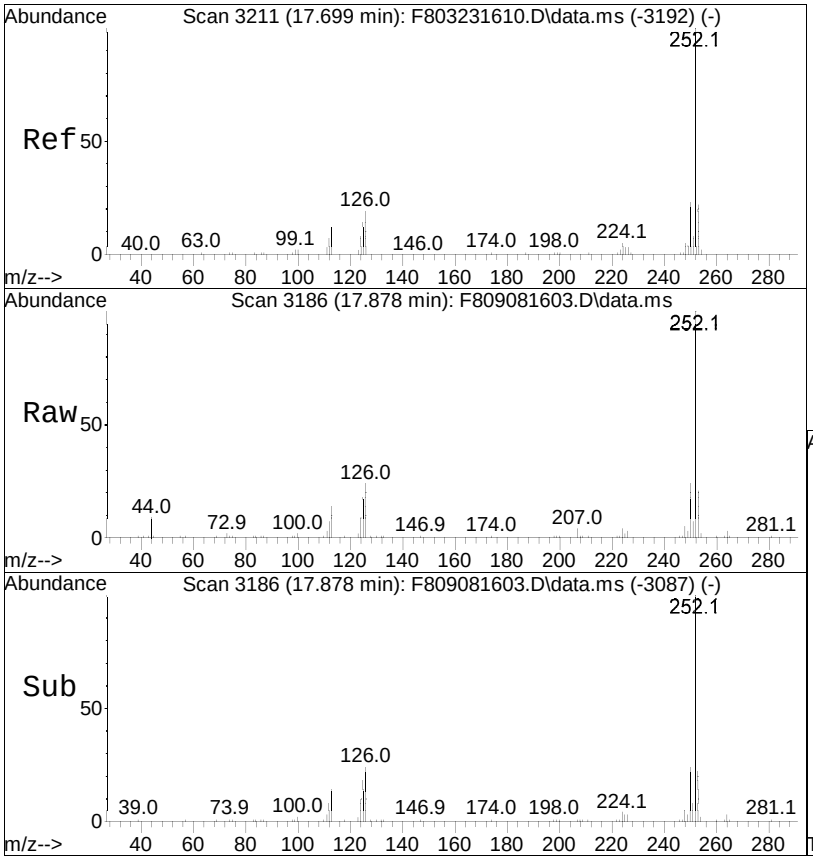


#88
Benzo[k]fluoranthene
Concen: 0.54 ug/mL M4
RT: 17.315 min Scan# 3069
Delta R.T. -0.019 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:252 Resp: 80345

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.3	25.9
125	16.0	13.3	19.9

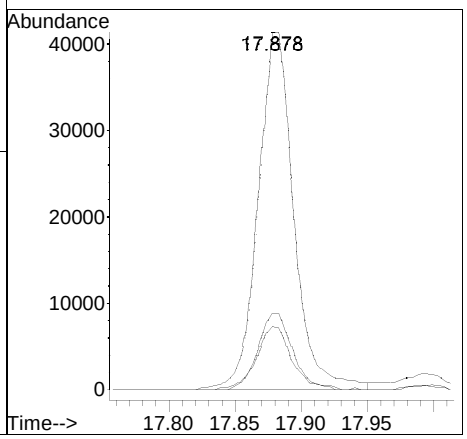


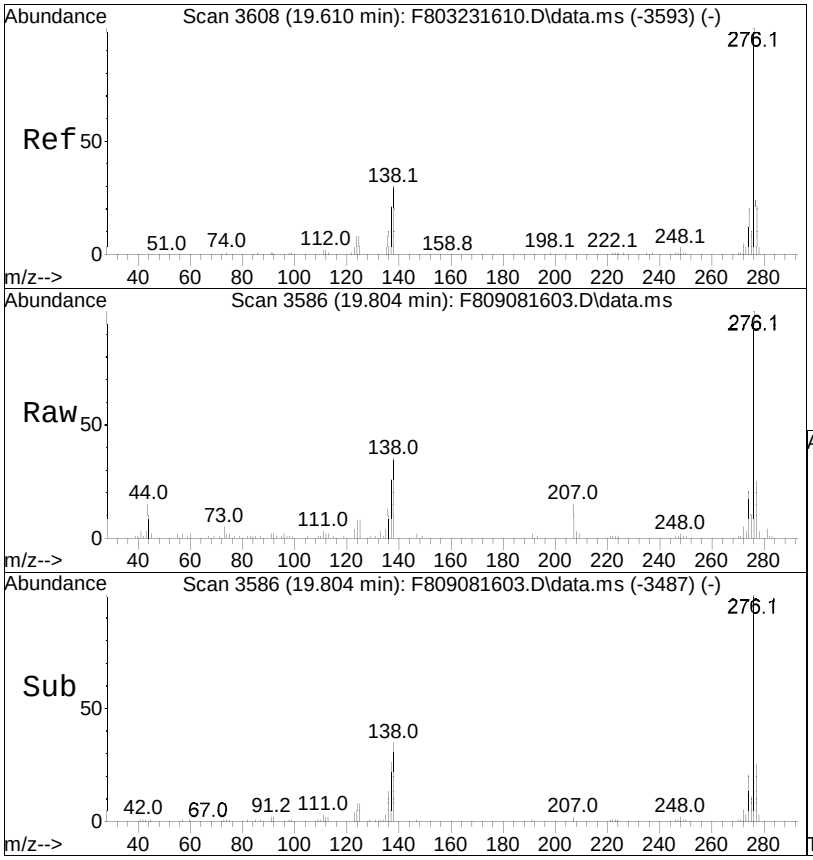


#89
Benzo[a]pyrene
Concen: 0.51 ug/mL
RT: 17.878 min Scan# 3186
Delta R.T. -0.024 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:252 Resp: 76984

Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.4	26.0
125	17.6	14.3	21.5

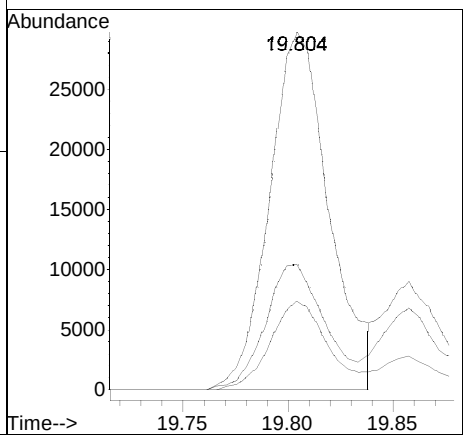


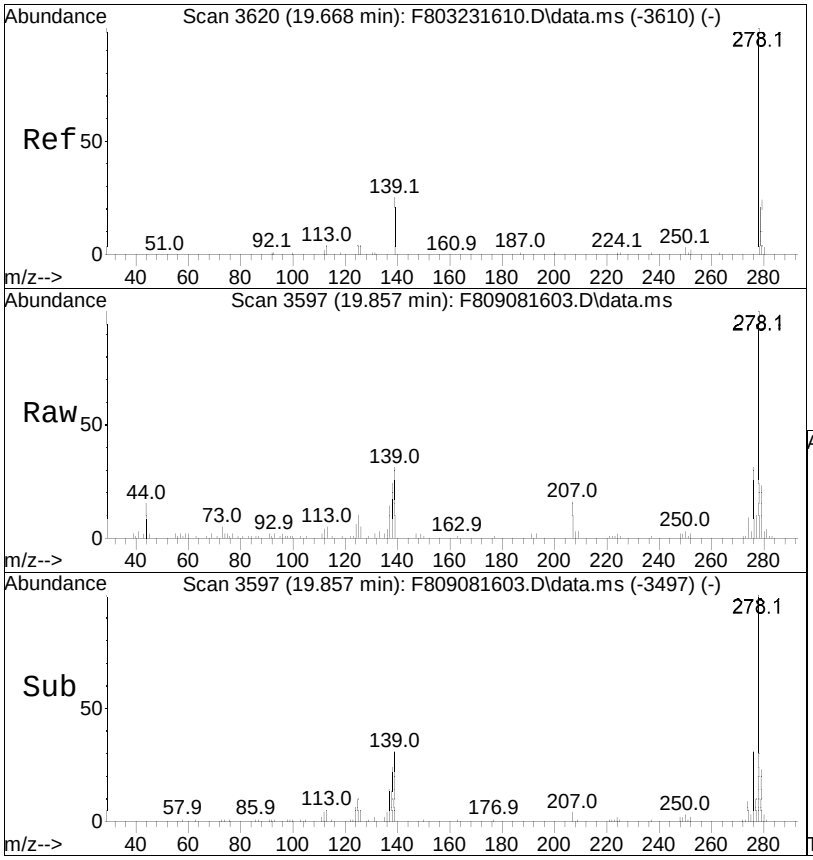


#90
Indeno[1,2,3-cd]pyrene
Concen: 0.44 ug/mL M6
RT: 19.804 min Scan# 3586
Delta R.T. -0.024 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:276 Resp: 58580

Ion	Ratio	Lower	Upper
276	100		
138	35.4	28.2	42.2
277	23.5	19.4	29.0

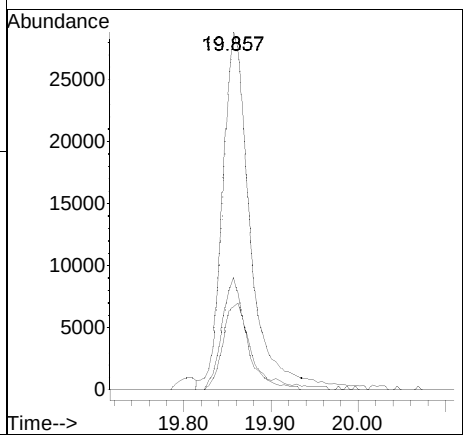


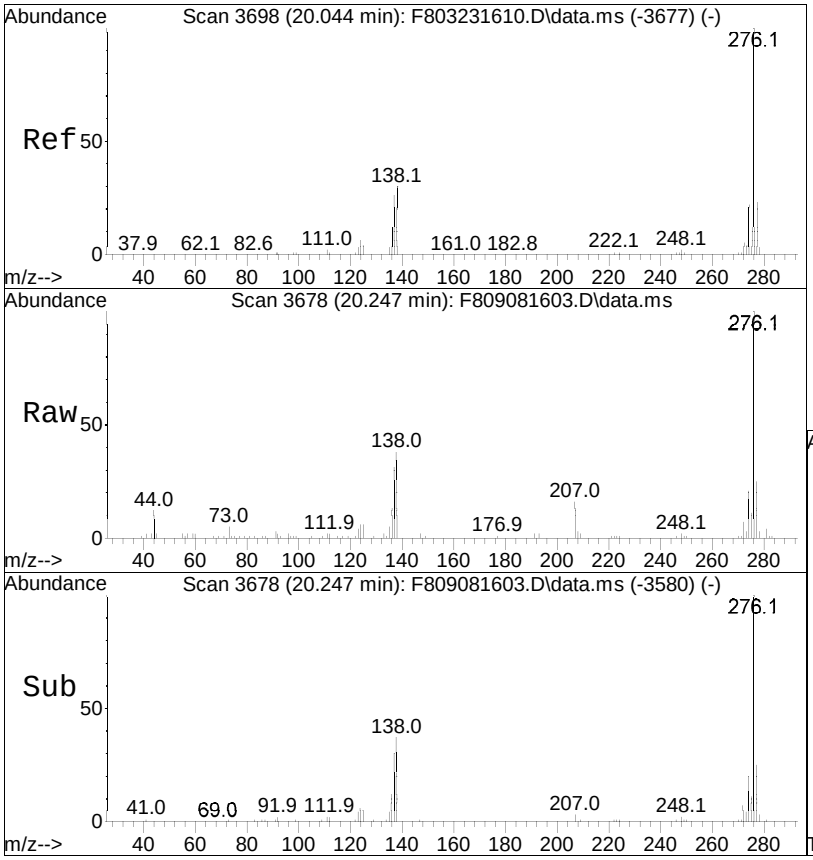


#91
Dibenz[a,h]anthracene
Concen: 0.48 ug/mL M4
RT: 19.857 min Scan# 3597
Delta R.T. -0.020 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:278 Resp: 64080

Ion	Ratio	Lower	Upper
278	100		
139	29.9	23.4	35.0
279	23.2	19.4	29.0

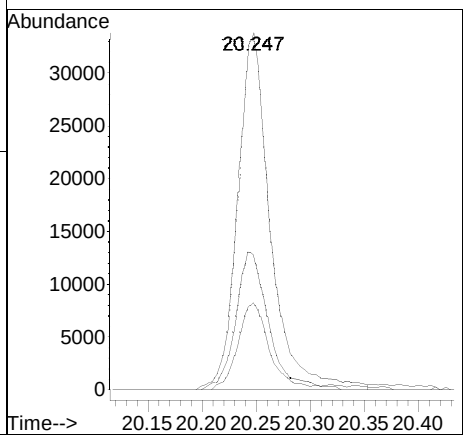




#92
Benzo[g,h,i]perylene
Concen: 0.50 ug/mL
RT: 20.247 min Scan# 3678
Delta R.T. -0.029 min
Lab File: F809081603.D
Acq: 8 Sep 2016 7:35 pm

Tgt Ion:276 Resp: 70987

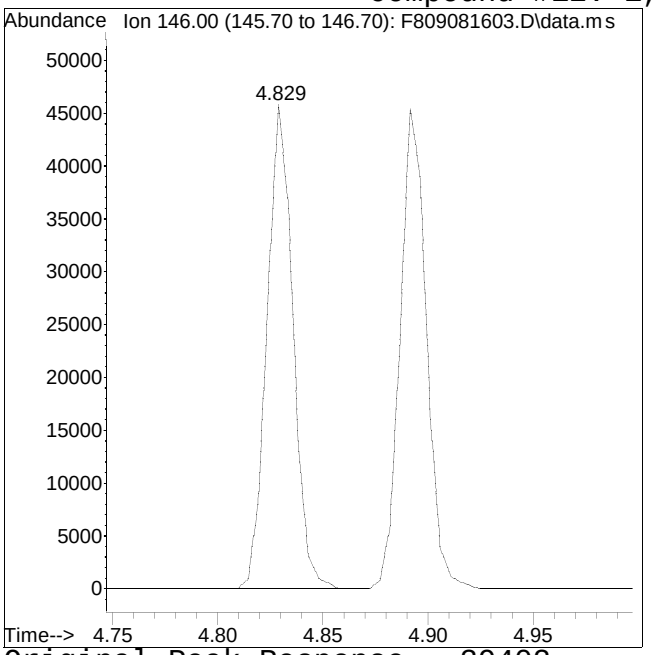
Ion	Ratio	Lower	Upper
276	100		
138	38.6	31.4	47.2
277	24.0	19.4	29.0

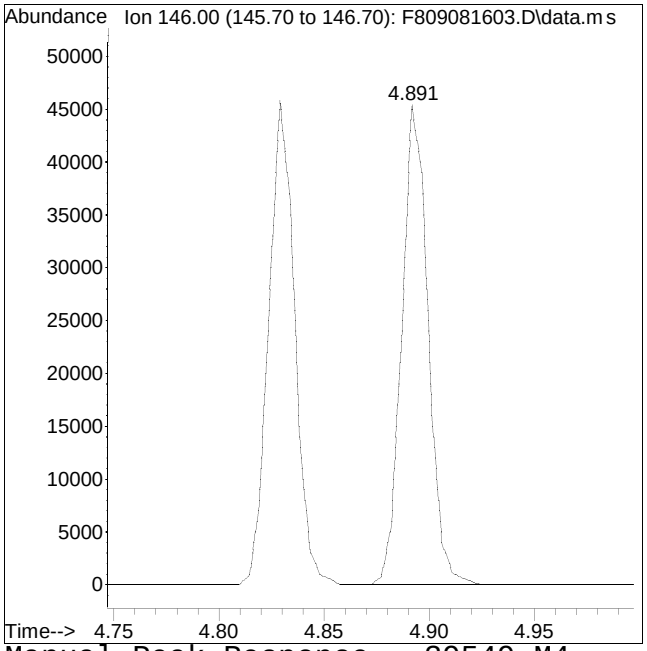


Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081603.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 7:35 pm Instrument : BNA8
Sample : I809081601 Quant Date : 9/9/2016 11:12 am

Compound #12: 1,4-Dichlorobenzene



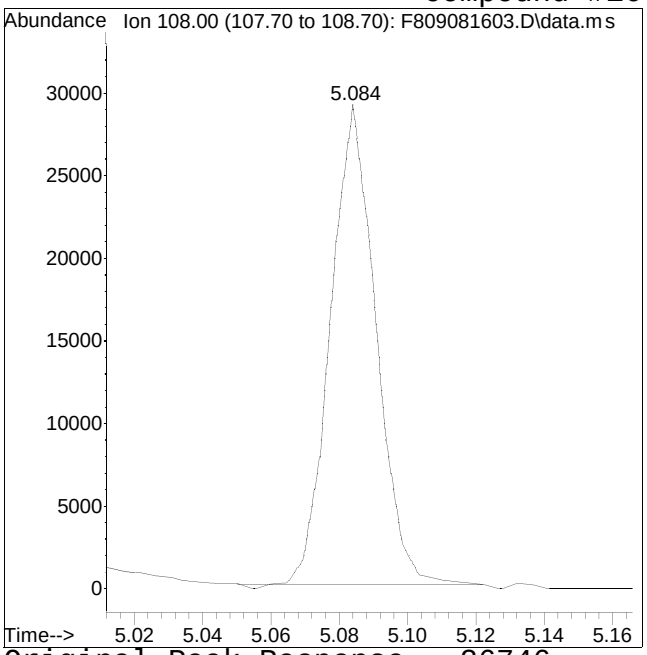


Original Peak Response = 39402 Manual Peak Response = 39549 M4
M4 = Poor automated baseline construction.

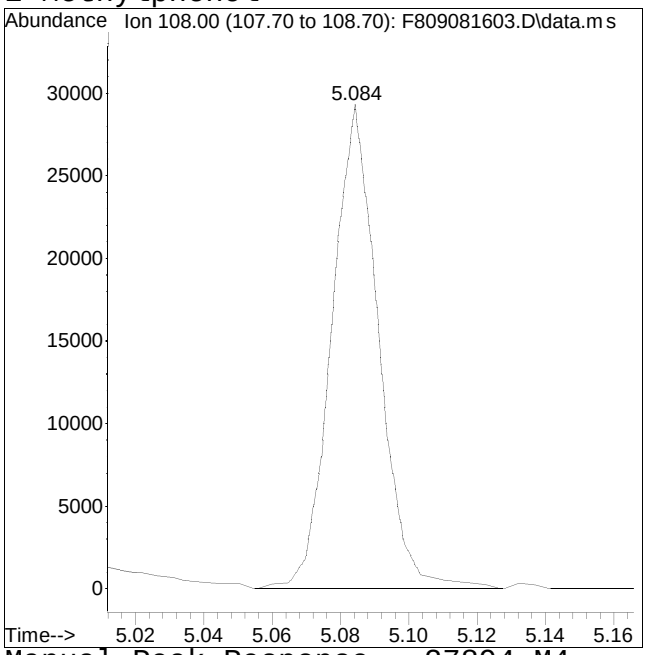
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081603.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 7:35 pm Instrument : BNA8
Sample : I809081601 Quant Date : 9/9/2016 11:12 am

Compound #16: 2-Methylphenol



Original Peak Response = 26746



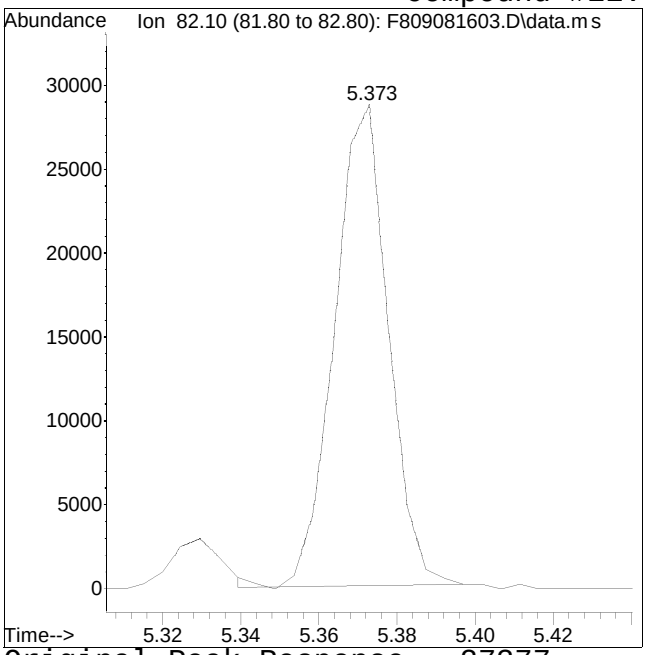
Manual Peak Response = 27894 M4

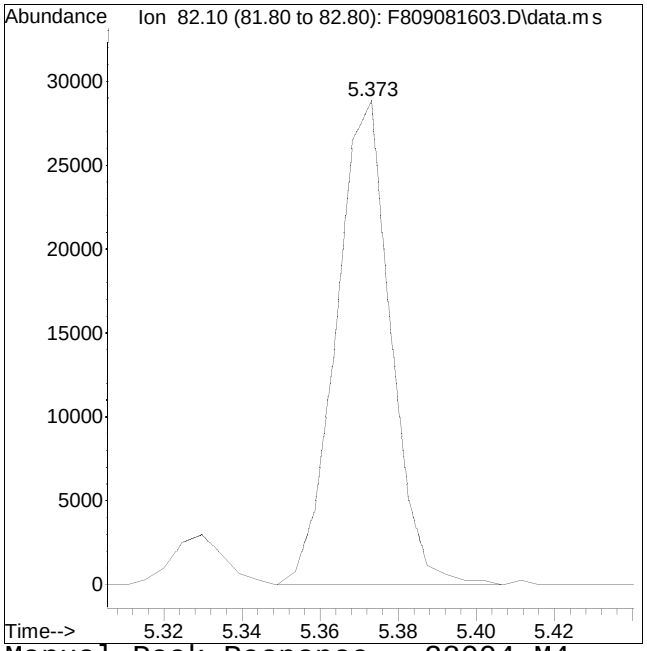
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081603.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 7:35 pm Instrument : BNA8
Sample : I809081601 Quant Date : 9/9/2016 11:12 am

Compound #22: Nitrobenzene-d5



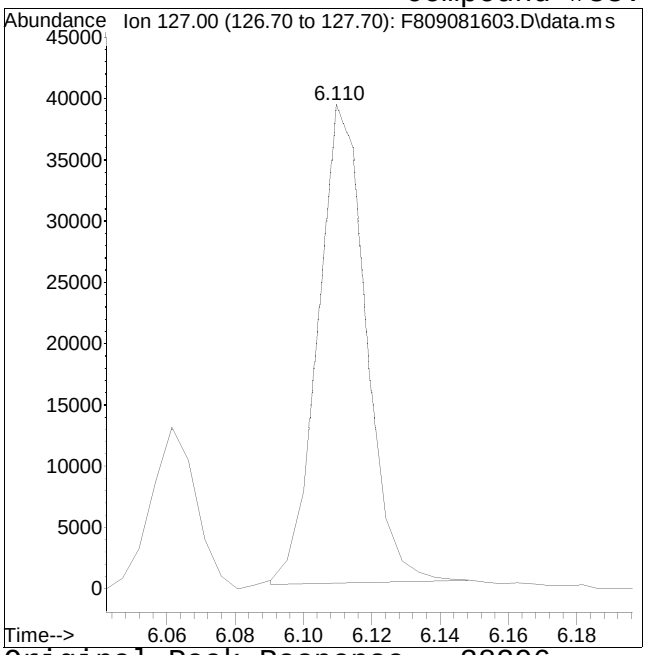


Original Peak Response = 27377 Manual Peak Response = 28004 M4
M4 = Poor automated baseline construction.

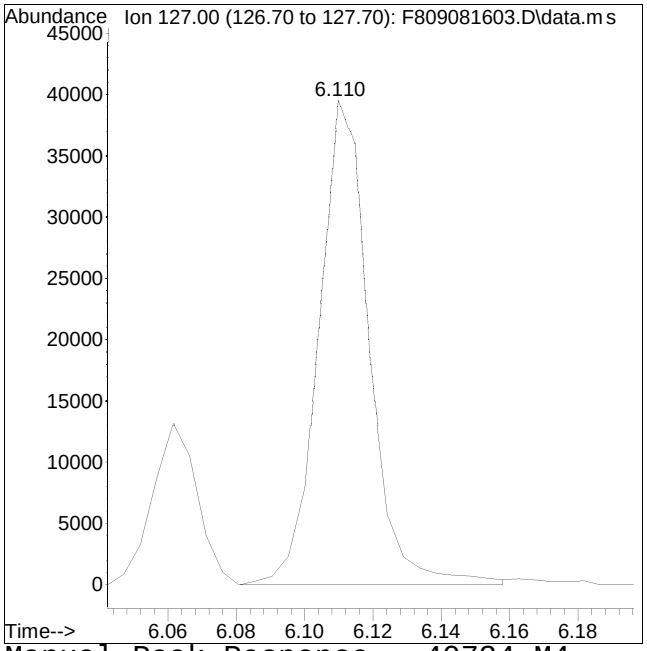
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081603.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 7:35 pm Instrument : BNA8
Sample : I809081601 Quant Date : 9/9/2016 11:12 am

Compound #33: 4-Chloroaniline



Original Peak Response = 38296



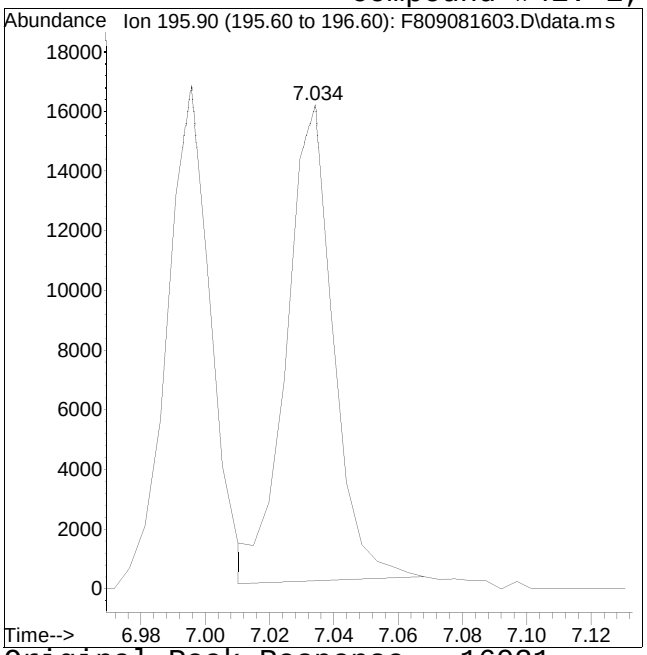
Manual Peak Response = 40734 M4

M4 = Poor automated baseline construction.

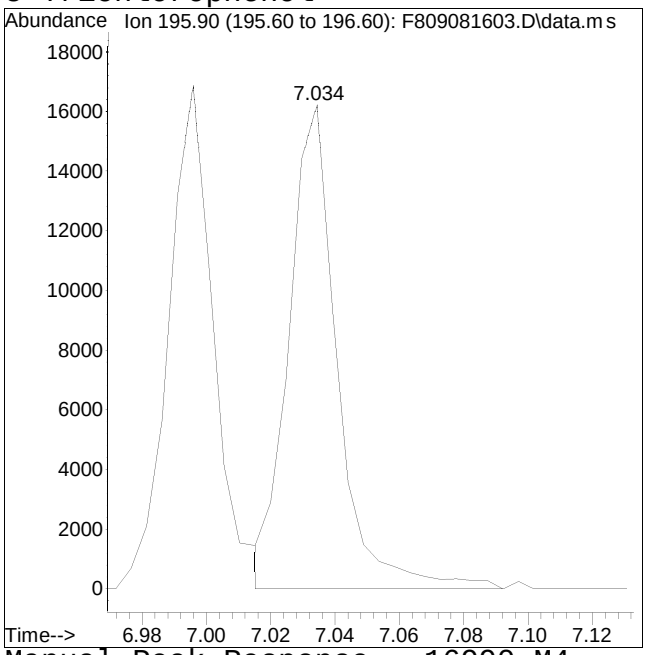
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081603.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 7:35 pm Instrument : BNA8
Sample : I809081601 Quant Date : 9/9/2016 11:12 am

Compound #42: 2,4,5-Trichlorophenol



Original Peak Response = 16031



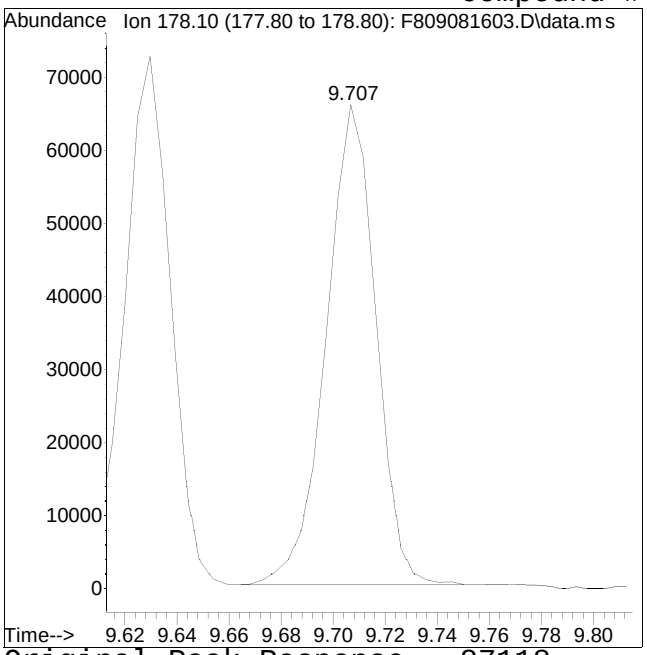
Manual Peak Response = 16990 M4

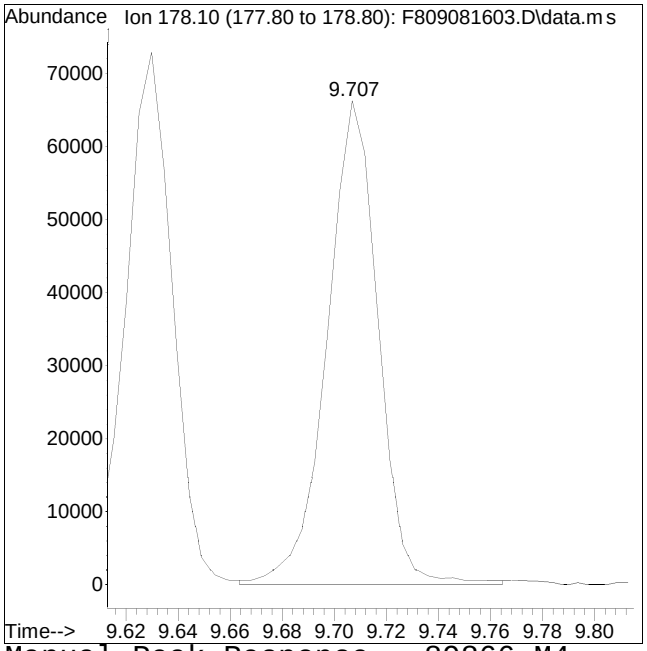
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081603.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 7:35 pm Instrument : BNA8
Sample : I809081601 Quant Date : 9/9/2016 11:12 am

Compound #72: Anthracene



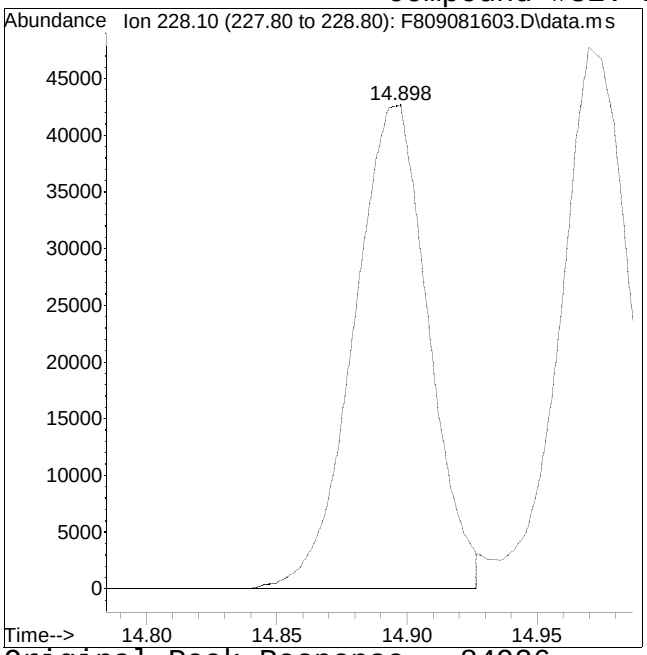


Original Peak Response = 87118 Manual Peak Response = 89866 M4
M4 = Poor automated baseline construction.

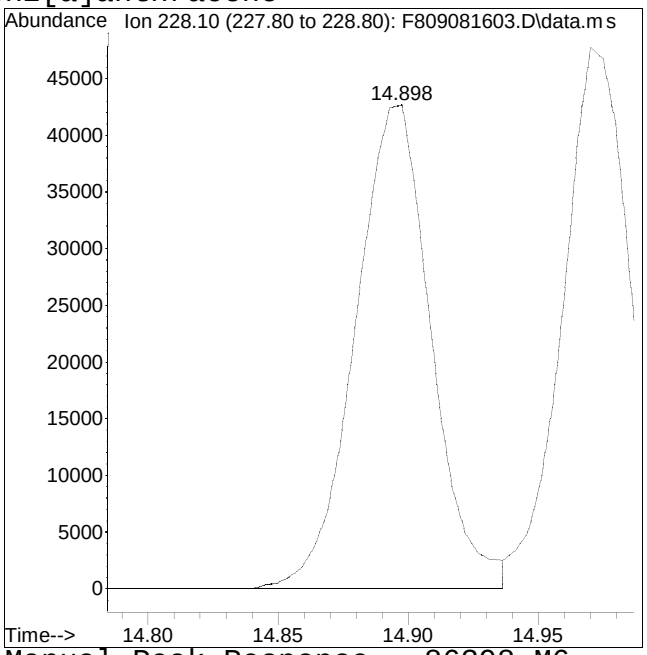
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081603.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 7:35 pm Instrument : BNA8
Sample : I809081601 Quant Date : 9/9/2016 11:12 am

Compound #82: Benz[a]anthracene



Original Peak Response = 84926



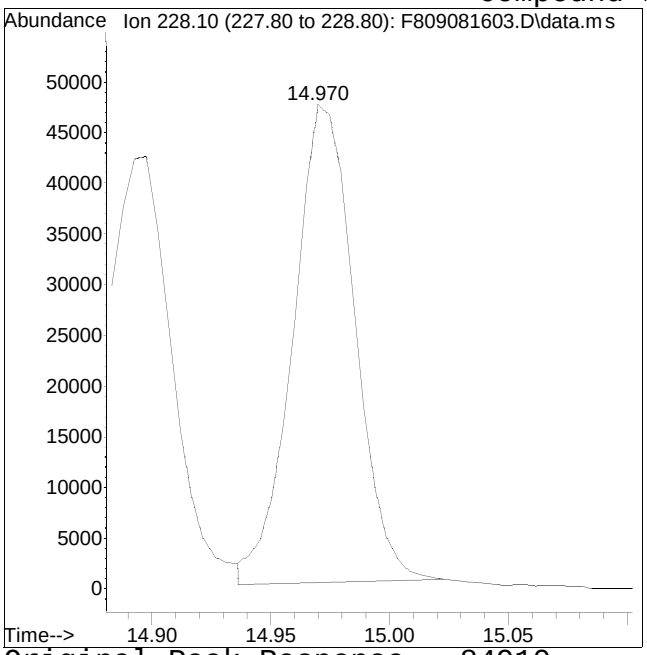
Manual Peak Response = 86398 M6

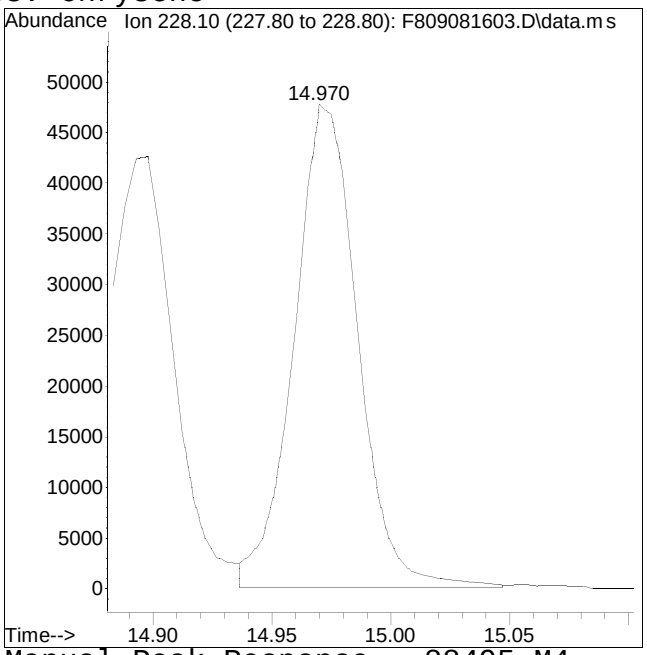
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081603.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 7:35 pm Instrument : BNA8
Sample : I809081601 Quant Date : 9/9/2016 11:12 am

Compound #83: Chrysene



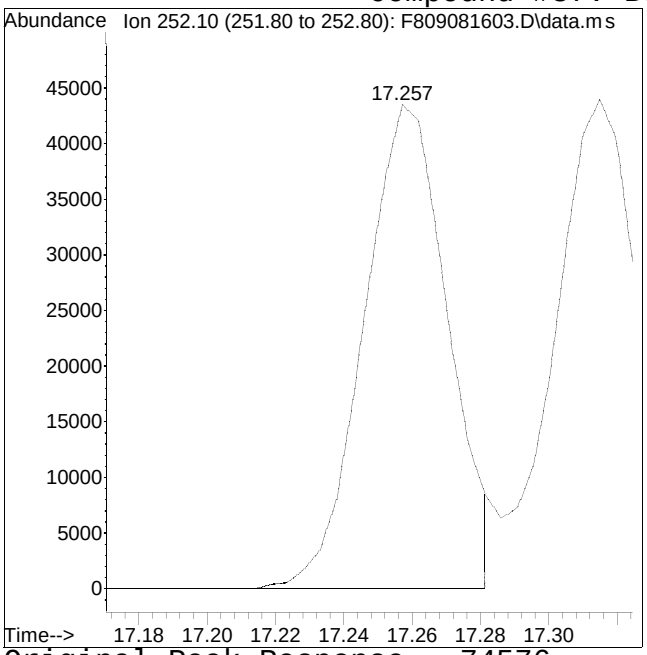


Original Peak Response = 84910 Manual Peak Response = 88495 M4
M4 = Poor automated baseline construction.

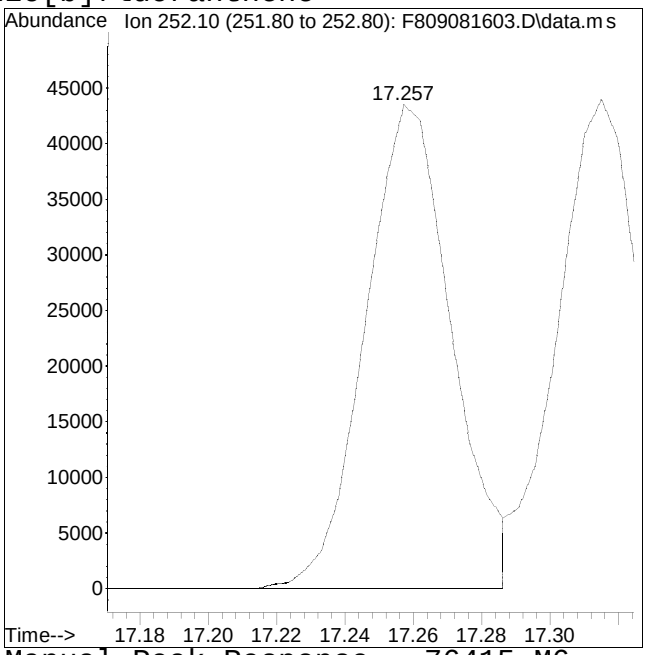
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081603.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 7:35 pm Instrument : BNA8
Sample : I809081601 Quant Date : 9/9/2016 11:12 am

Compound #87: Benzo[b]fluoranthene



Original Peak Response = 74576



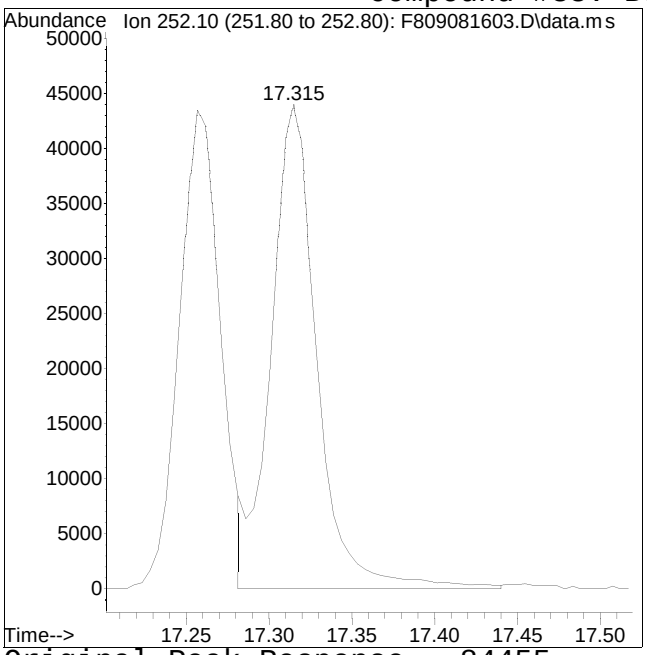
Manual Peak Response = 76415 M6

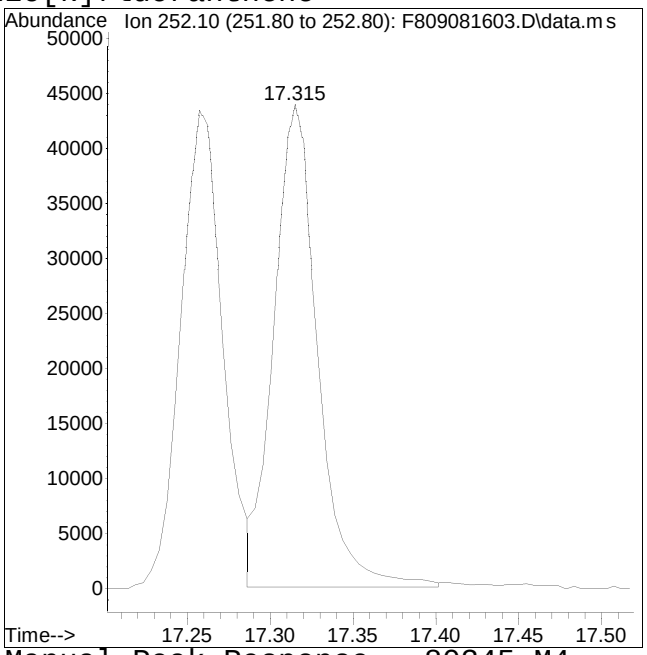
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081603.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 7:35 pm Instrument : BNA8
Sample : I809081601 Quant Date : 9/9/2016 11:12 am

Compound #88: Benzo[k]fluoranthene



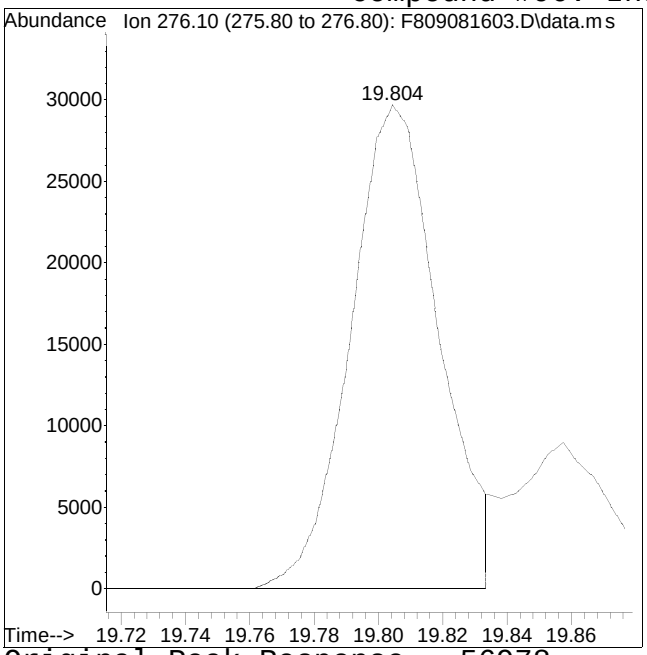


Original Peak Response = 84455 Manual Peak Response = 80345 M4
M4 = Poor automated baseline construction.

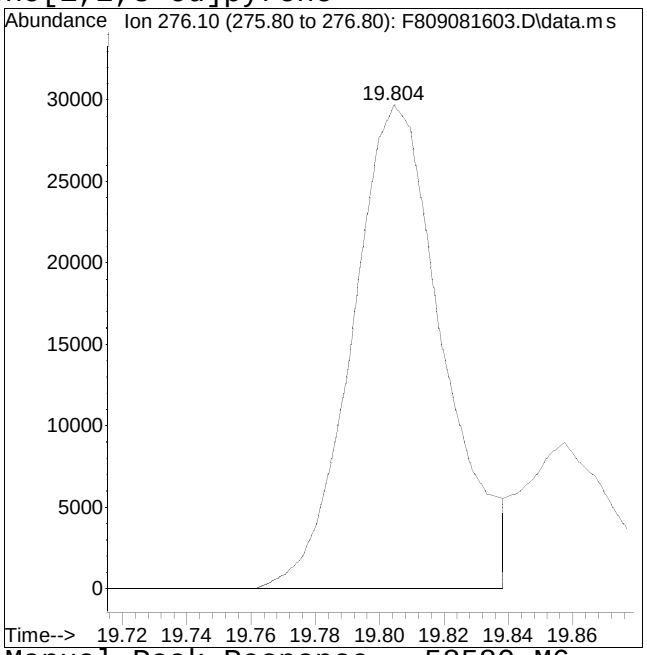
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081603.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 7:35 pm Instrument : BNA8
Sample : I809081601 Quant Date : 9/9/2016 11:12 am

Compound #90: Indeno[1,2,3-cd]pyrene



Original Peak Response = 56978



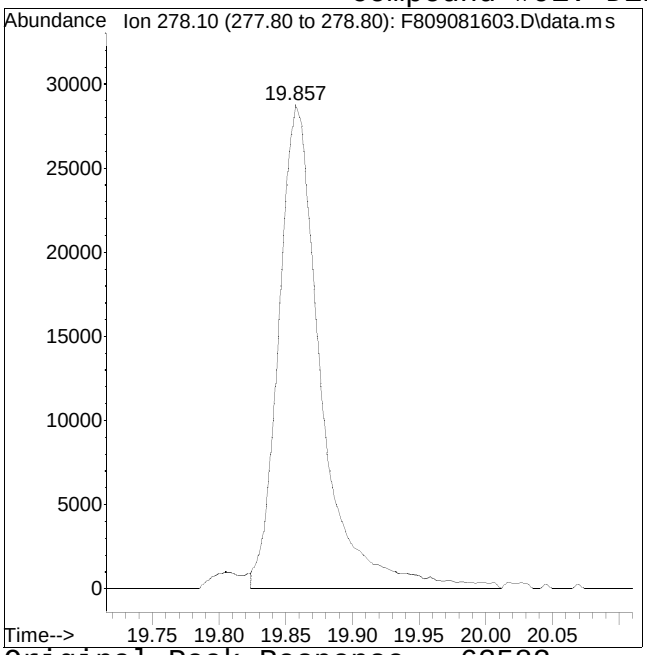
Manual Peak Response = 58580 M6

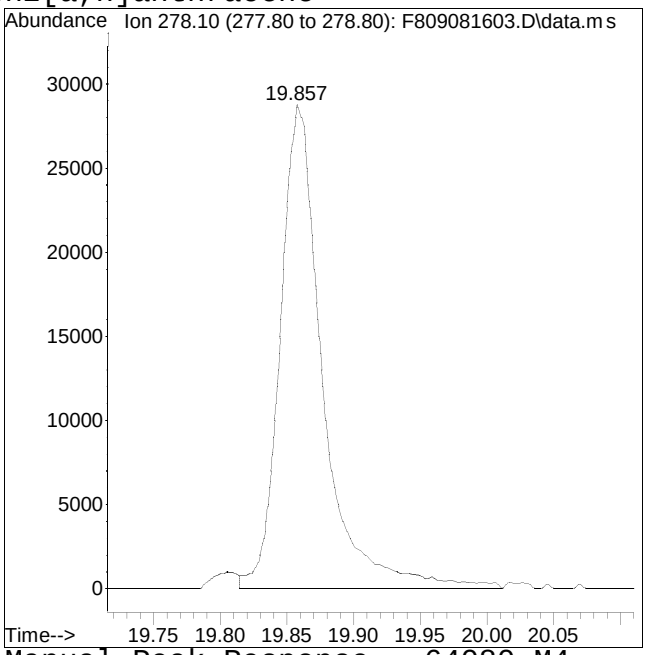
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081603.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 7:35 pm Instrument : BNA8
Sample : I809081601 Quant Date : 9/9/2016 11:12 am

Compound #91: Dibenz[a,h]anthracene





Original Peak Response = 63582 Manual Peak Response = 64080 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081604.D
Acq On : 8 Sep 2016 8:09 pm
Operator : BNA8:ML
Sample : I809081602
Misc : WG930406,MSAK71
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 09 10:41:40 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	242445	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	934425	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	502556	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	797193	5.000	ug/mL	0.00
76) Chrysene-d12	14.917	240	751813	5.000	ug/mL	0.00
85) Perylene-d12	17.999	264	684739	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.827	112	60820	1.034	ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 5.17%#			
8) Phenol-d5	4.545	99	72554	1.012	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 5.06%#			
22) Nitrobenzene-d5	5.368	82	54882	0.951	ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 4.75%#			
43) 2-Fluorobiphenyl	7.073	172	132384	1.040	ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 5.20%#			
65) 2,4,6-Tribromophenol	8.638	330	10582	0.812	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 4.06%#			
79) Terphenyl-d14	12.572	244	119052	0.987	ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 4.93%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.922	74	29941	0.959	ug/mL#	99
3) Pyridine	2.956	79	59400	0.988	ug/mL	97
5) Benzaldehyde	0.000		0	N.D.	d	
6) Aniline	4.593	93	88135	0.956	ug/ml	99
7) bis(2-Chloroethyl)ether	4.636	63	39063	0.997	ug/mL	99
9) Phenol	4.555	94	76240	1.008	ug/mL	94
10) 2-Chlorophenol	4.699	128	67803	1.016	ug/mL	97
11) 1,3-Dichlorobenzene	4.829	146	76159	1.028	ug/mL	99
12) 1,4-Dichlorobenzene	4.892	146	76871M4	1.041	ug/mL	
13) 1,2-Dichlorobenzene	5.026	146	72665	1.034	ug/mL	100
14) Benzyl alcohol	4.988	108	39577	0.978	ug/mL	98
15) bis(2-chloroisopropyl)eth	5.103	45	58588	1.018	ug/mL#	22
16) 2-Methylphenol	5.084	108	53734M4	1.034	ug/mL	
17) Acetophenone	0.000		0	N.D.		
18) Hexachloroethane	5.330	117	27440	1.000	ug/mL	95
19) N-Nitroso-di-n-propylamin	5.224	70	36917	0.971	ug/mL	97
20) 4-Methylphenol	5.219	108	58316	1.040	ug/mL	97
23) Nitrobenzene	5.388	77	56743	0.994	ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081604.D
Acq On : 8 Sep 2016 8:09 pm
Operator : BNA8:ML
Sample : I809081602
Misc : WG930406,MSAK71
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 09 10:41:40 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
24) Isophorone	5.604	82	88235	0.958 ug/mL	98
25) 2-Nitrophenol	5.681	139	34346	0.940 ug/mL	99
26) 2,4-Dimethylphenol	5.710	107	59850	1.325 ug/mL	95
27) Benzoic acid	0.000		0	N.D. d	
28) bis(2-Chloroethoxy)methan	5.797	93	65126	0.993 ug/mL	99
29) 2,4-Dichlorophenol	5.903	162	50307	0.971 ug/mL	99
30) 1,2,4-Trichlorobenzene	5.985	180	57226	1.013 ug/mL	99
31) Naphthalene	6.062	128	191792	1.044 ug/mL	100
32) 2-Chloroaniline	5.648	127	95323	1.034 ug/ml	99
33) 4-Chloroaniline	6.110	127	78568M4	1.056 ug/mL	
34) Hexachlorobutadiene	6.168	225	28818	1.005 ug/mL	98
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	6.572	107	48571	0.952 ug/mL	100
37) 2-Methylnaphthalene	6.721	142	126872	1.024 ug/mL	99
39) 1,2,4,5-Tetrachlorobenzen	6.880	216	54375	1.029 ug/mL	100
40) Hexachlorocyclopentadiene	6.871	237	13621	0.538 ug/mL	97
41) 2,4,6-Trichlorophenol	6.996	196	33957M6	0.885 ug/mL	
42) 2,4,5-Trichlorophenol	7.030	196	32955M4	0.904 ug/mL	
44) Biphenyl	0.000		0	N.D.	
45) 2-Chloronaphthalene	7.193	162	118745	1.037 ug/mL	98
46) 2-Nitroaniline	7.294	65	25270	0.896 ug/mL	98
47) Acenaphthylene	7.603	152	194969	1.039 ug/mL	98
48) Dimethylphthalate	7.468	163	122378	0.992 ug/mL	99
49) 2,6-Dinitrotoluene	7.530	165	25859	0.879 ug/mL	95
50) Acenaphthene	7.781	153	119948	1.056 ug/mL	99
51) 3-Nitroaniline	7.704	138	30634	0.924 ug/mL	98
52) 2,4-Dinitrophenol	7.810	184	1124	1.387 ug/mL#	61
53) Dibenzofuran	7.964	168	155859	1.034 ug/mL	100
54) 2,3,4,6-Tetrachlorophenol	8.099	232	17821	0.691 ug/mL	96
55) 2,4-Dinitrotoluene	7.944	165	34023	0.897 ug/mL#	76
56) 4-Nitrophenol	7.887	109	9514	0.687 ug/mL	96
57) Fluorene	8.349	166	128009	1.054 ug/mL	100
58) 4-Chlorophenyl-phenylethe	8.344	204	57992	1.066 ug/mL	100
59) Diethylphthalate	8.209	149	126322	1.000 ug/mL	100
60) 4-Nitroaniline	8.373	138	32494M4	0.949 ug/mL	
62) 4,6-Dinitro-2-methylpheno	8.402	198	5747	0.699 ug/mL#	87
63) Azobenzene	8.537	182	33758	1.005 ug/mL	86
64) n-Nitrosodiphenylamine	8.489	169	90107M4	1.018 ug/mL	
66) 4-Bromophenyl-phenylether	8.961	248	29405	0.971 ug/mL	97
67) Hexachlorobenzene	9.033	284	31493	0.994 ug/mL	99
68) Atrazine	0.000		0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081604.D
Acq On : 8 Sep 2016 8:09 pm
Operator : BNA8:ML
Sample : I809081602
Misc : WG930406,MSAK71
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 09 10:41:40 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
69) Pentachlorophenol	9.317	266	2968	0.500 ug/mL	97
70) Pentachloronitrobenzene	9.326	237	11294	0.861 ug/ml	92
71) Phenanthrene	9.630	178	182027	1.046 ug/mL	99
72) Anthracene	9.707	178	180282M4	1.044 ug/mL	
73) Carbazole	9.972	167	174995	1.021 ug/mL	99
74) Di-n-butylphthalate	10.593	149	201459	0.953 ug/mL	99
75) Fluoranthene	11.720	202	187919	1.018 ug/mL	97
77) Benzidine	0.000		0	N.D.	
78) Pyrene	12.172	202	189612	0.995 ug/mL	97
80) Butylbenzylphthalate	13.761	149	84270	0.852 ug/mL	98
81) 3,3'-Dichlorobenzidine	0.000		0	N.D.	
82) Benz[a]anthracene	14.898	228	170514M4	0.969 ug/mL	
83) Chrysene	14.975	228	175559M4	1.015 ug/mL	
84) bis(2-Ethylhexyl)phthalat	15.230	149	110039M4	0.848 ug/mL	
86) Di-n-octylphthalate	16.728	149	179389	0.793 ug/mL	99
87) Benzo[b]fluoranthene	17.257	252	153487M6	0.943 ug/mL	
88) Benzo[k]fluoranthene	17.315	252	156241M4	0.990 ug/mL	
89) Benzo[a]pyrene	17.883	252	148968M4	0.971 ug/mL	
90) Indeno[1,2,3-cd]pyrene	19.805	276	119832M6	0.871 ug/mL	
91) Dibenz[a,h]anthracene	19.858	278	122050M4	0.885 ug/mL	
92) Benzo[g,h,i]perylene	20.248	276	144881	0.984 ug/mL	99

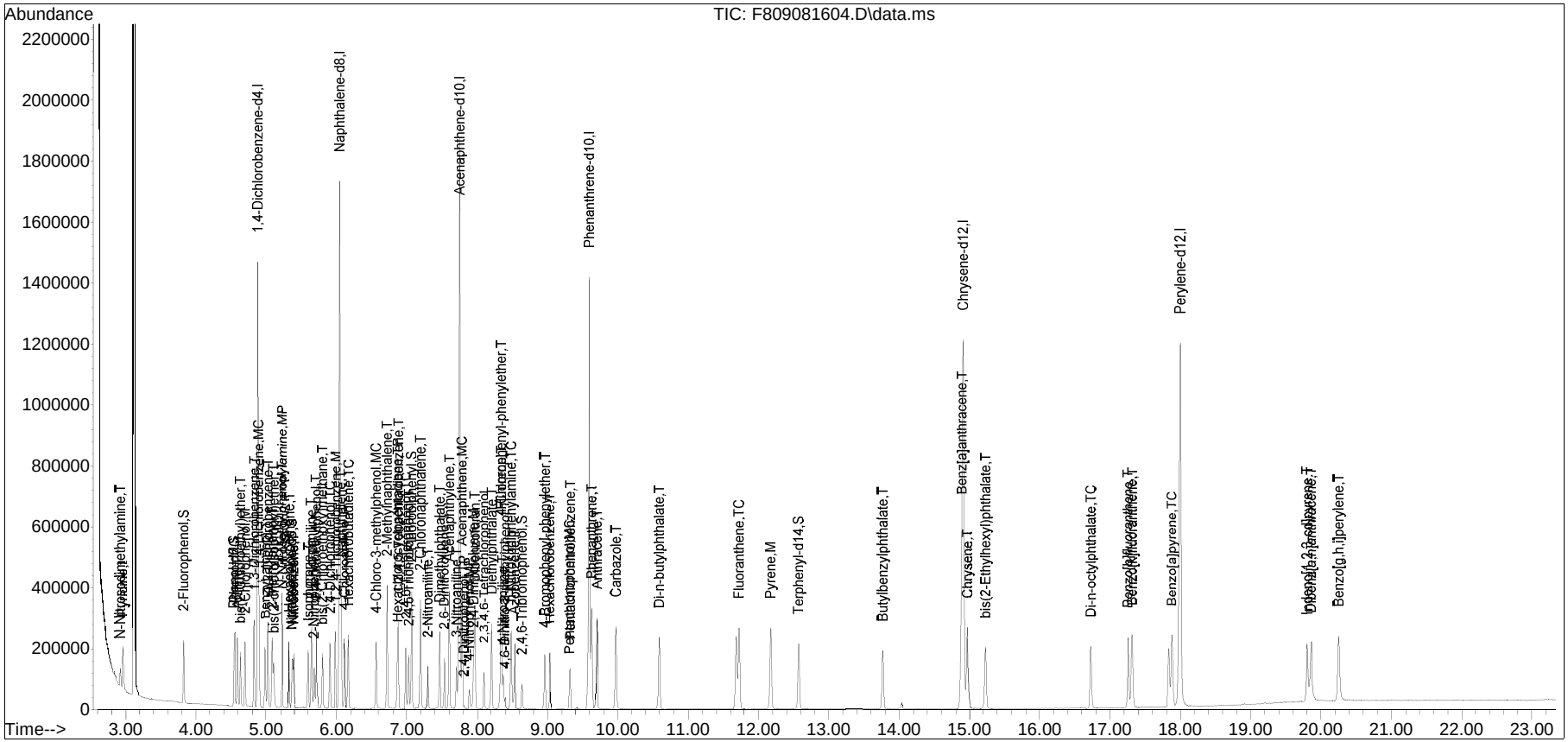
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081604.D
Acq On : 8 Sep 2016 8:09 pm
Operator : BNA8:ML
Sample : I809081602
Misc : WG930406,MSAK71
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 09 10:41:40 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

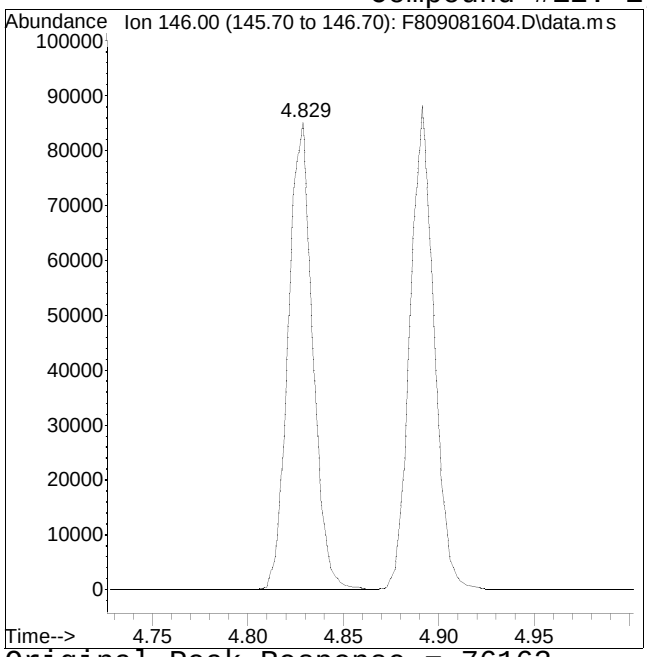
Sub List : Default - All compounds listed

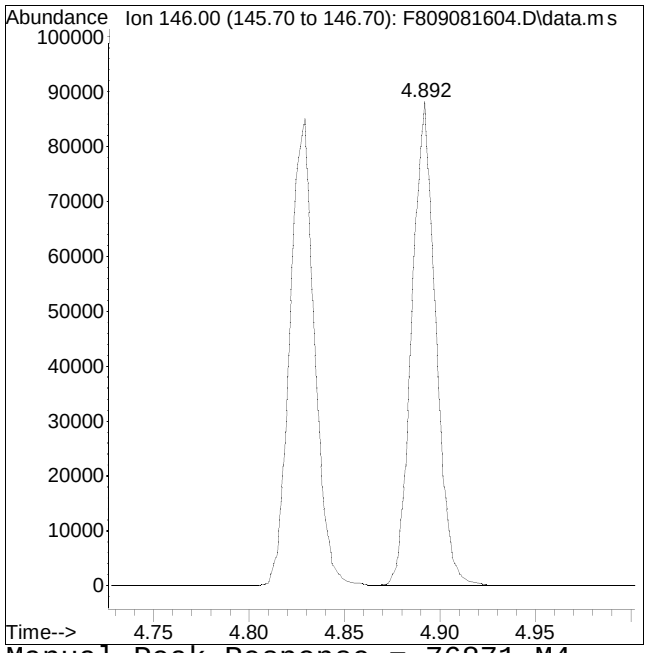


Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081604.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:09 pm Instrument : BNA8
Sample : I809081602 Quant Date : 9/9/2016 7:48 am

Compound #12: 1,4-Dichlorobenzene



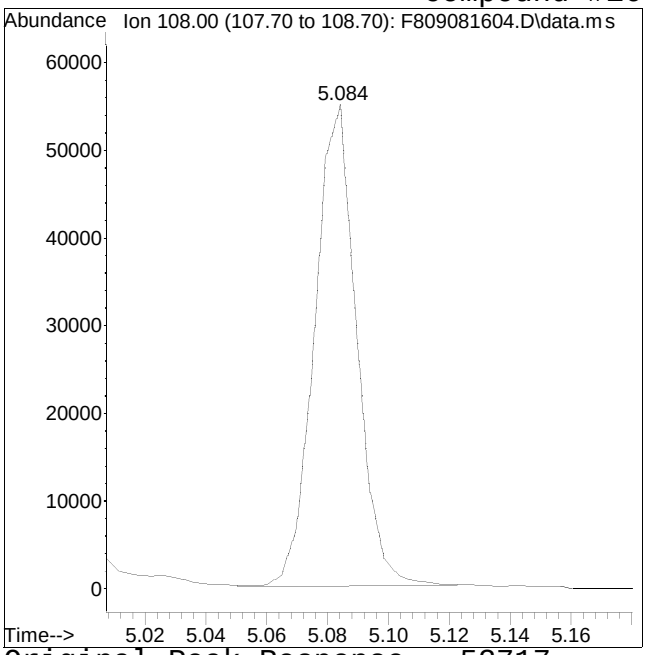


Original Peak Response = 76163 Manual Peak Response = 76871 M4
M4 = Poor automated baseline construction.

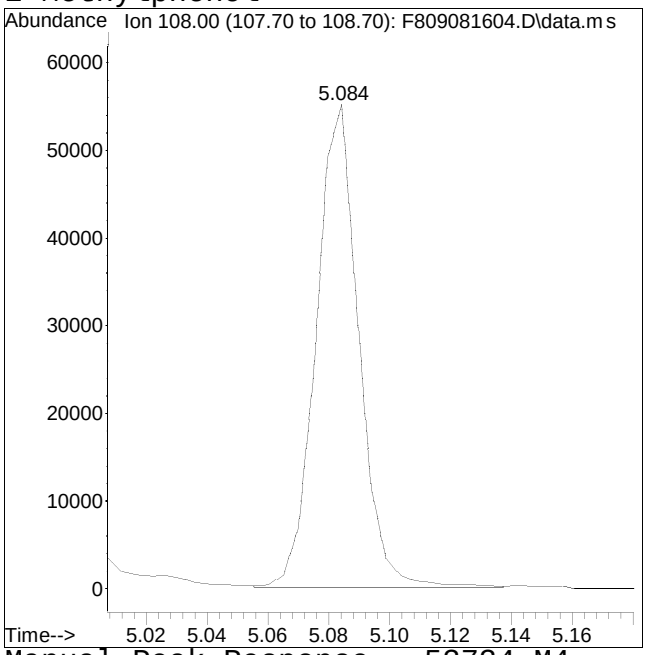
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081604.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:09 pm Instrument : BNA8
Sample : I809081602 Quant Date : 9/9/2016 7:48 am

Compound #16: 2-Methylphenol



Original Peak Response = 52717



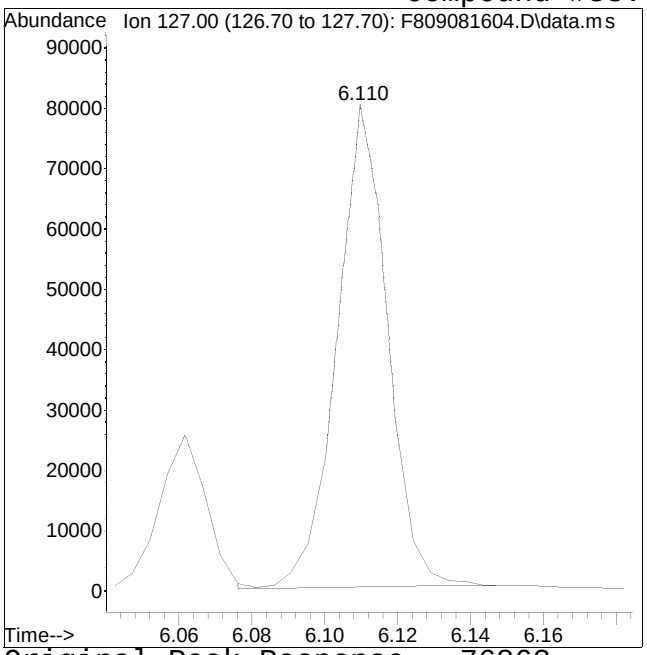
Manual Peak Response = 53734 M4

M4 = Poor automated baseline construction.

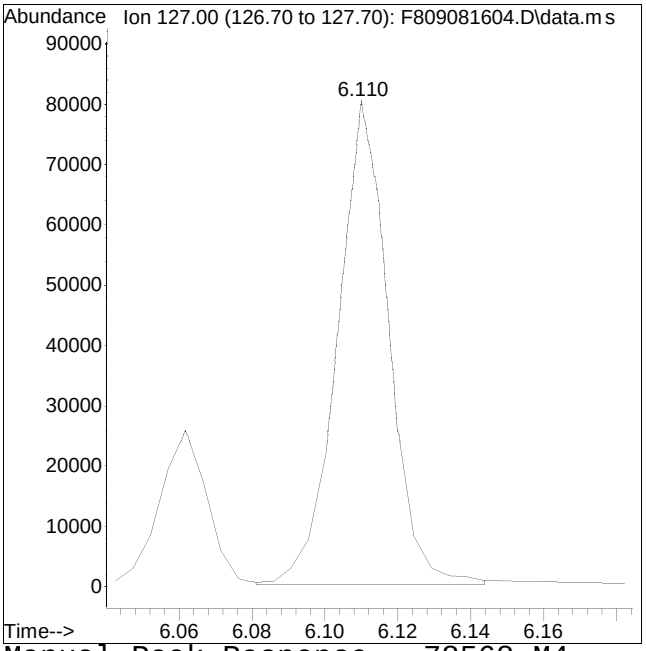
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081604.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:09 pm Instrument : BNA8
Sample : I809081602 Quant Date : 9/9/2016 7:48 am

Compound #33: 4-Chloroaniline



Original Peak Response = 76862



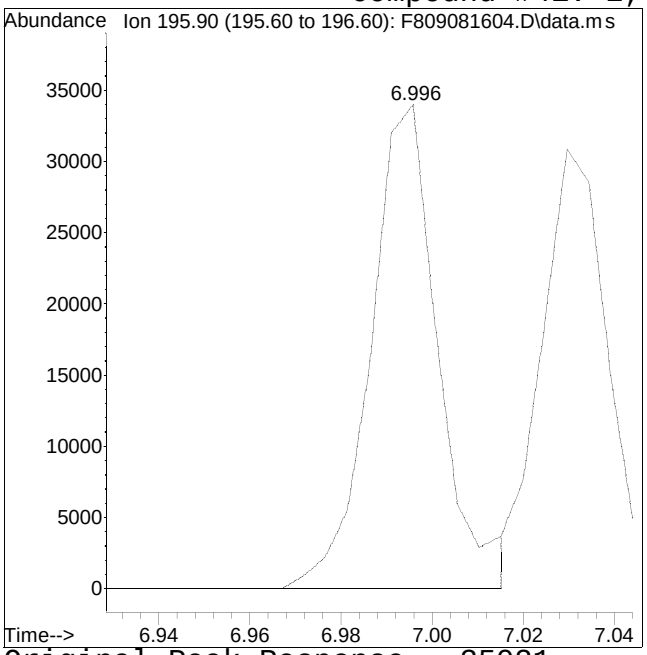
Manual Peak Response = 78568 M4

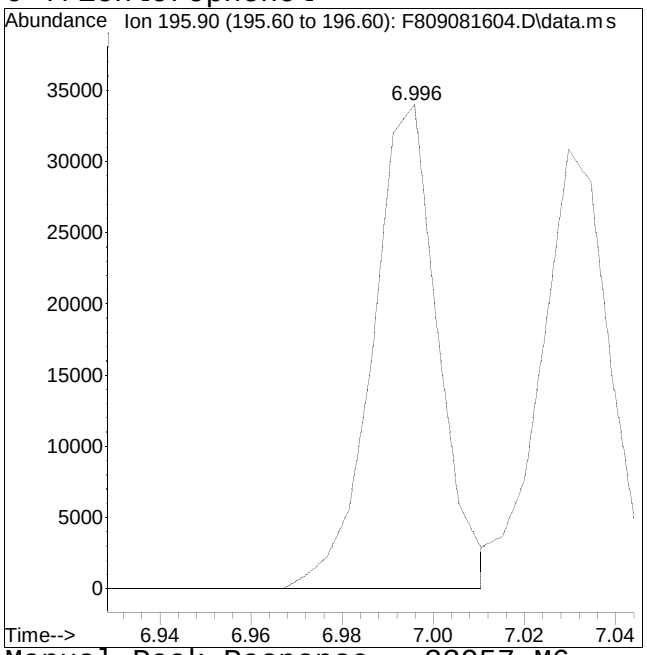
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081604.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:09 pm Instrument : BNA8
Sample : I809081602 Quant Date : 9/9/2016 7:48 am

Compound #41: 2,4,6-Trichlorophenol



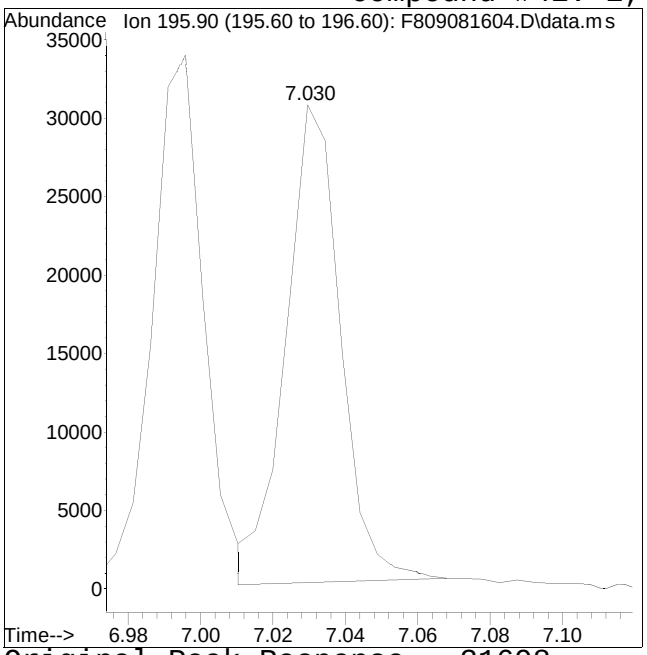


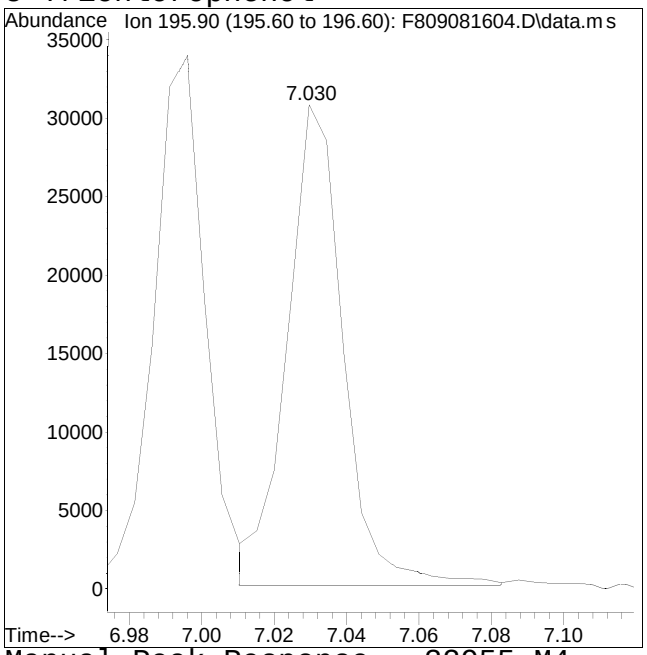
Original Peak Response = 35021 Manual Peak Response = 33957 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081604.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:09 pm Instrument : BNA8
Sample : I809081602 Quant Date : 9/9/2016 7:48 am

Compound #42: 2,4,5-Trichlorophenol



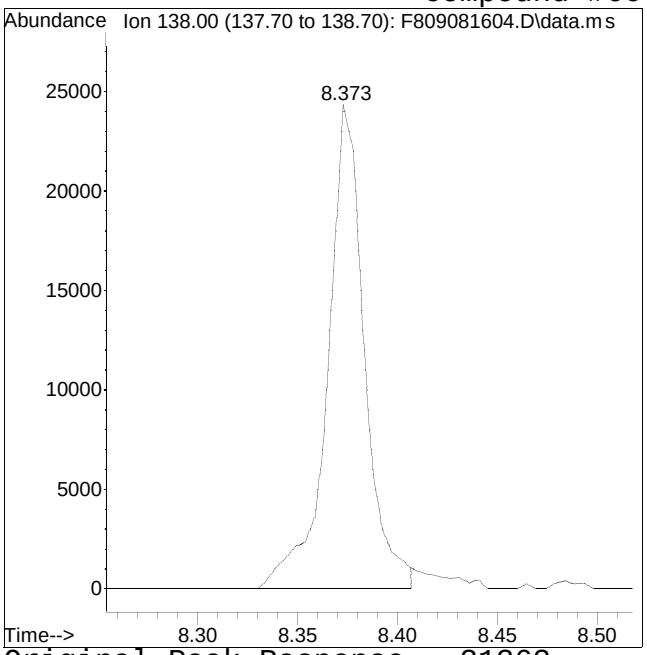


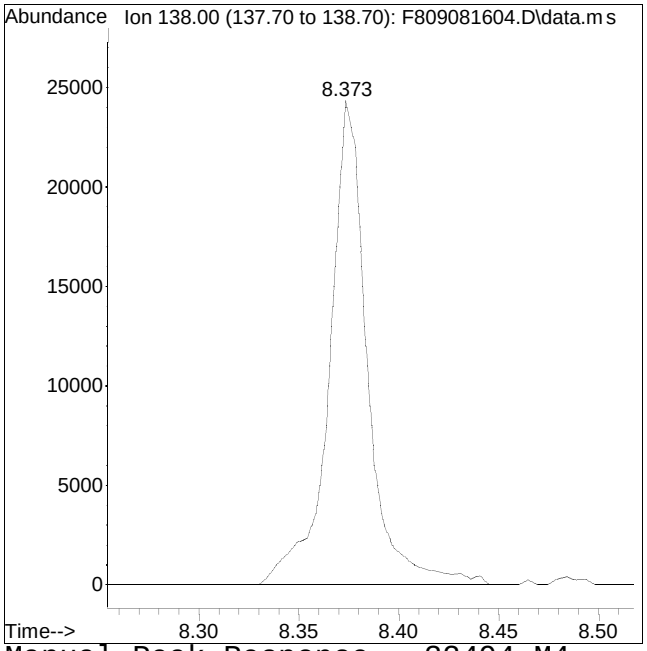
Original Peak Response = 31698 Manual Peak Response = 32955 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081604.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:09 pm Instrument : BNA8
Sample : I809081602 Quant Date : 9/9/2016 7:48 am

Compound #60: 4-Nitroaniline



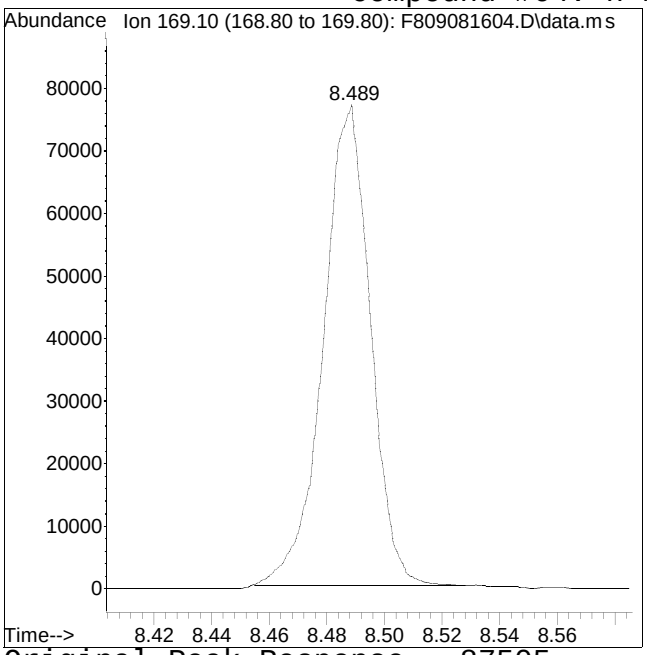


Original Peak Response = 31363 Manual Peak Response = 32494 M4
M4 = Poor automated baseline construction.

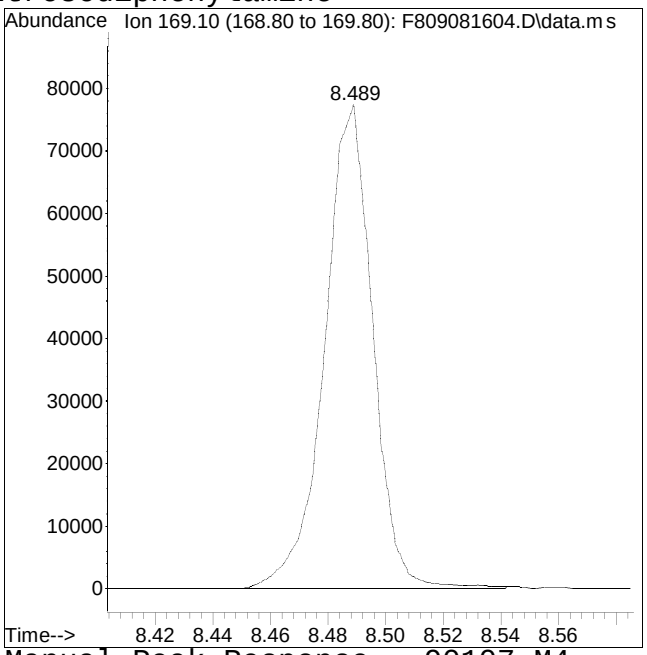
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081604.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:09 pm Instrument : BNA8
Sample : I809081602 Quant Date : 9/9/2016 7:48 am

Compound #64: n-Nitrosodiphenylamine



Original Peak Response = 87505



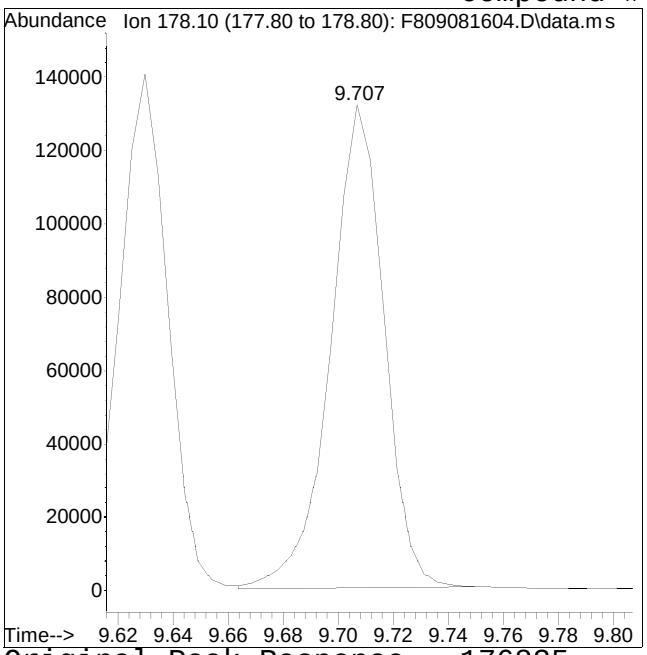
Manual Peak Response = 90107 M4

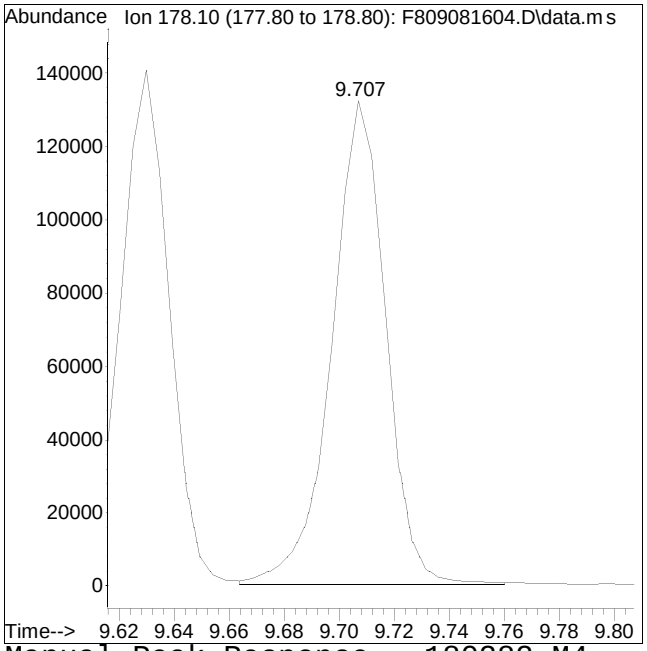
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081604.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:09 pm Instrument : BNA8
Sample : I809081602 Quant Date : 9/9/2016 7:48 am

Compound #72: Anthracene



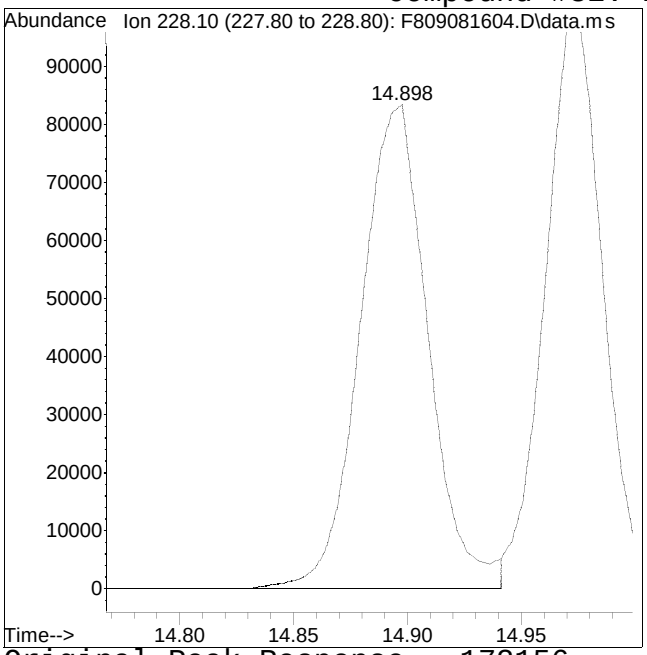


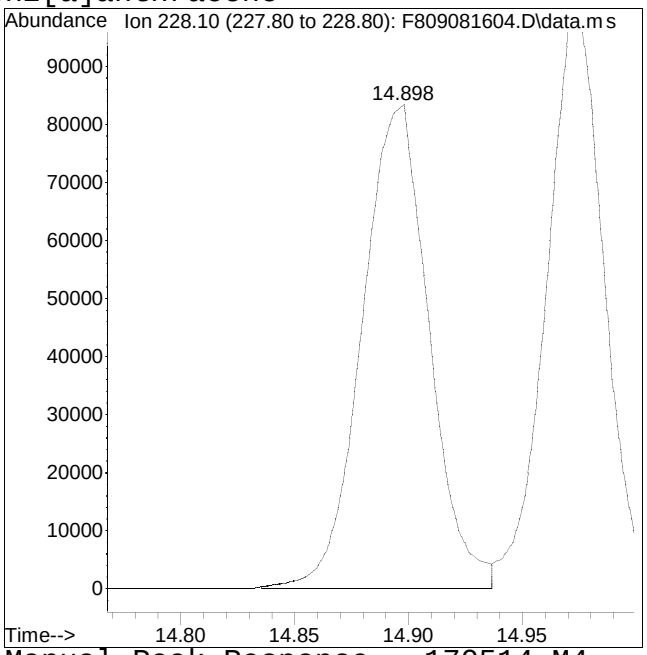
Original Peak Response = 176835 Manual Peak Response = 180282 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081604.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:09 pm Instrument : BNA8
Sample : I809081602 Quant Date : 9/9/2016 7:48 am

Compound #82: Benz[a]anthracene



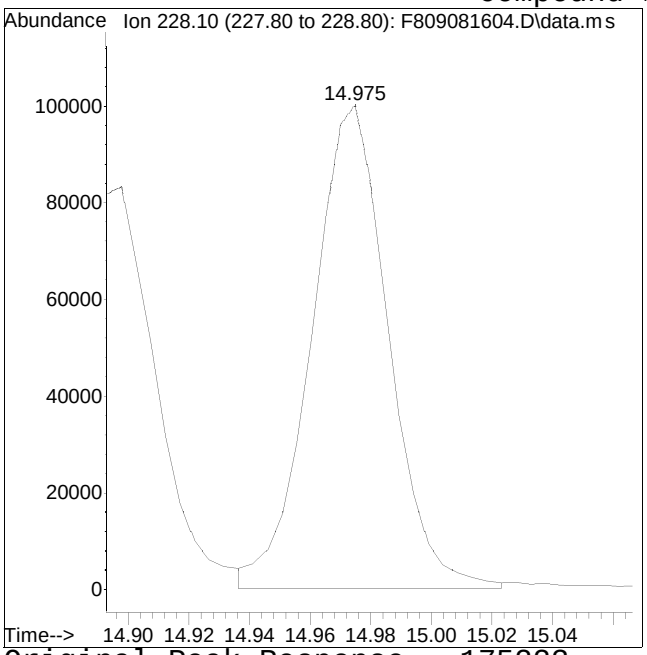


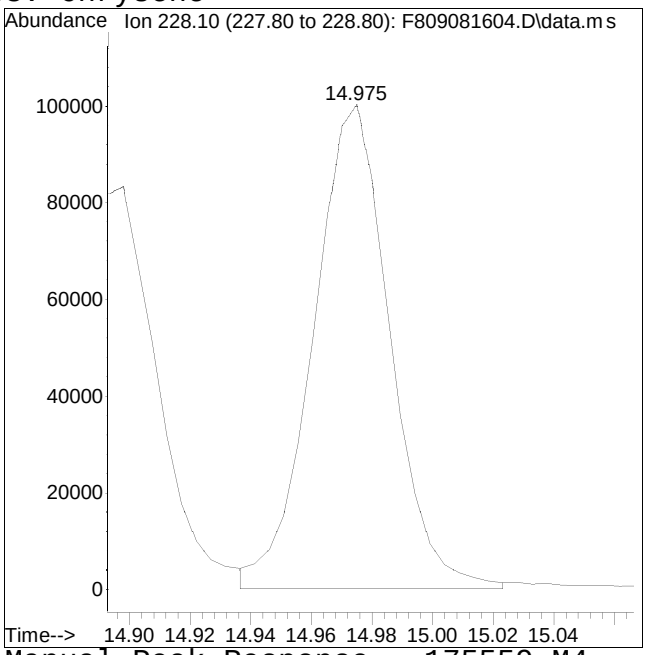
Original Peak Response = 172156 Manual Peak Response = 170514 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081604.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:09 pm Instrument : BNA8
Sample : I809081602 Quant Date : 9/9/2016 7:48 am

Compound #83: Chrysene



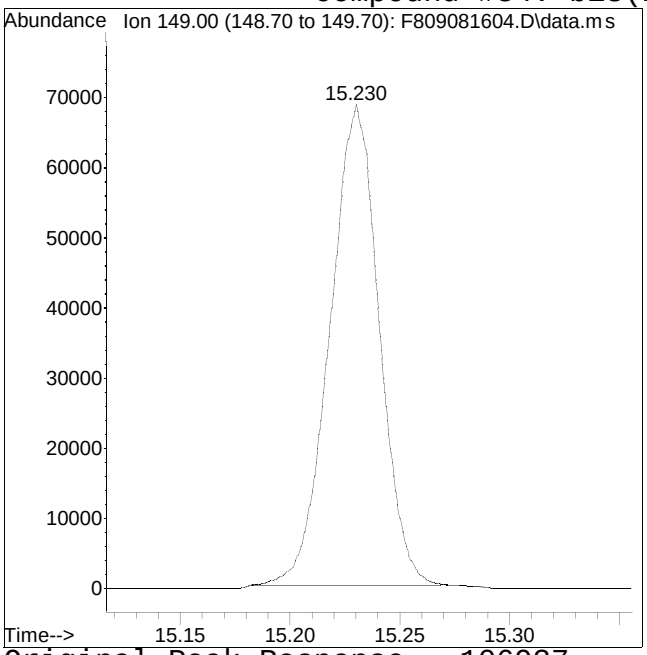


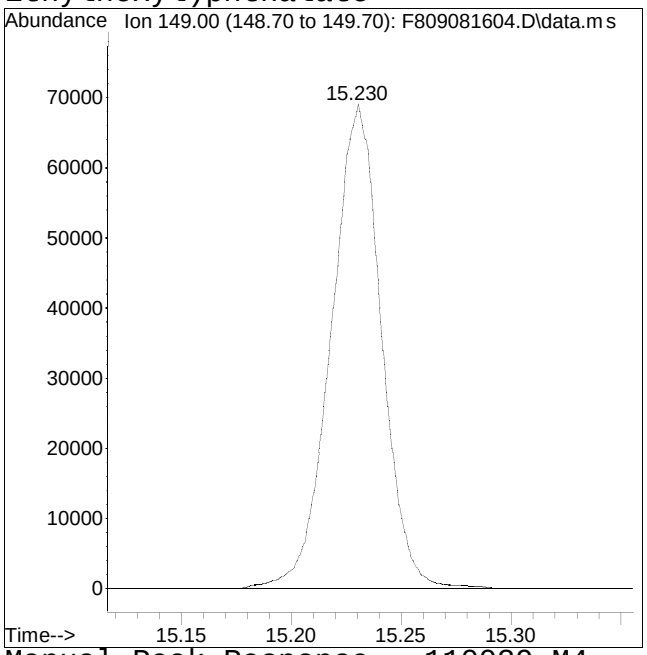
Original Peak Response = 175223 Manual Peak Response = 175559 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081604.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:09 pm Instrument : BNA8
Sample : I809081602 Quant Date : 9/9/2016 7:48 am

Compound #84: bis(2-Ethylhexyl)phthalate



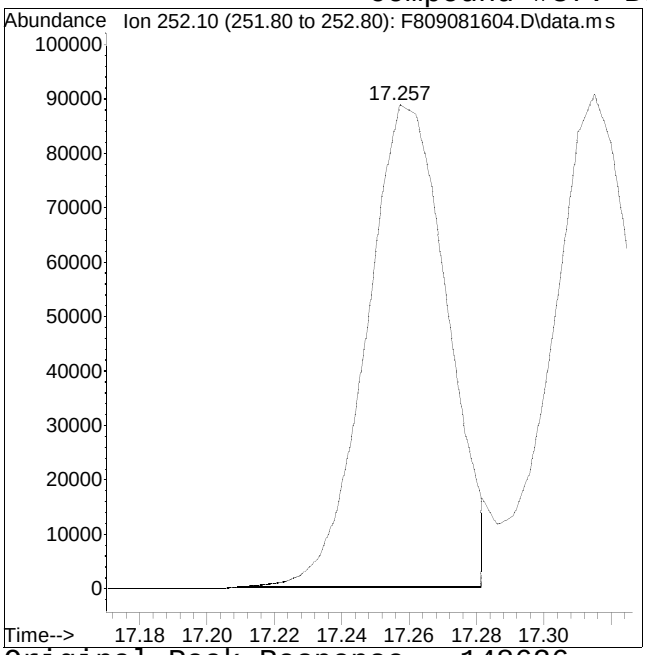


Original Peak Response = 106937 Manual Peak Response = 110039 M4
M4 = Poor automated baseline construction.

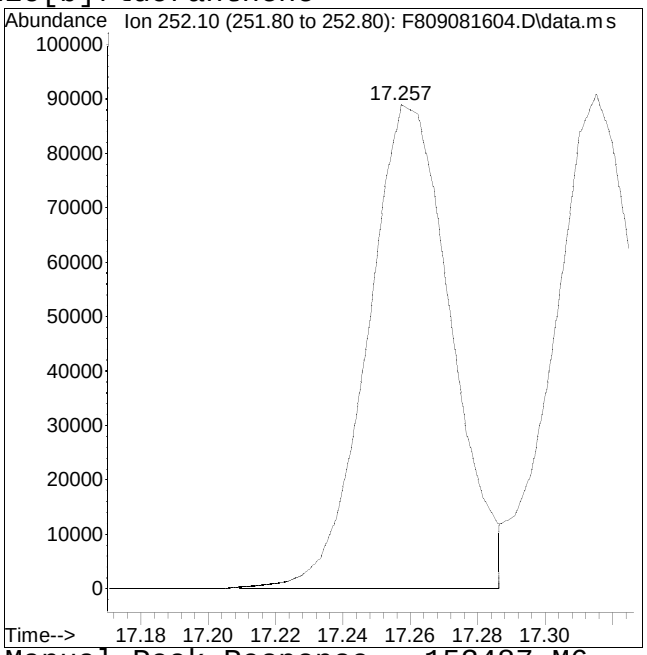
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081604.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:09 pm Instrument : BNA8
Sample : I809081602 Quant Date : 9/9/2016 7:48 am

Compound #87: Benzo[b]fluoranthene



Original Peak Response = 148626



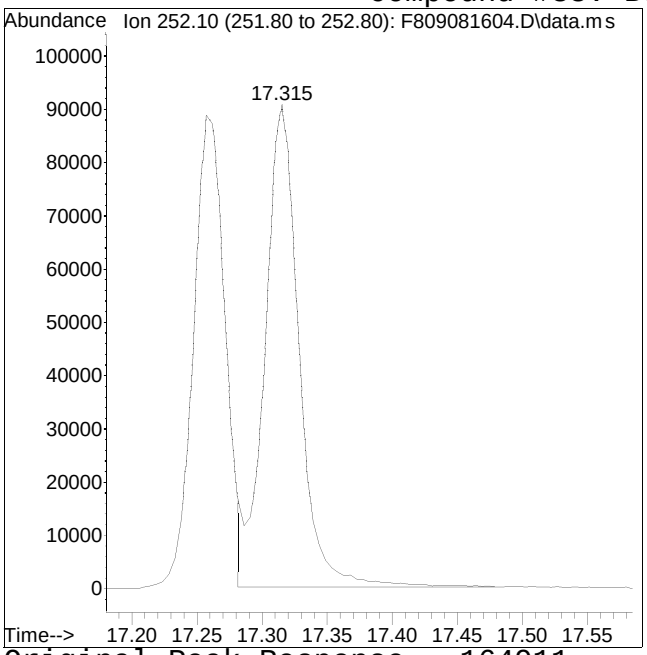
Manual Peak Response = 153487 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

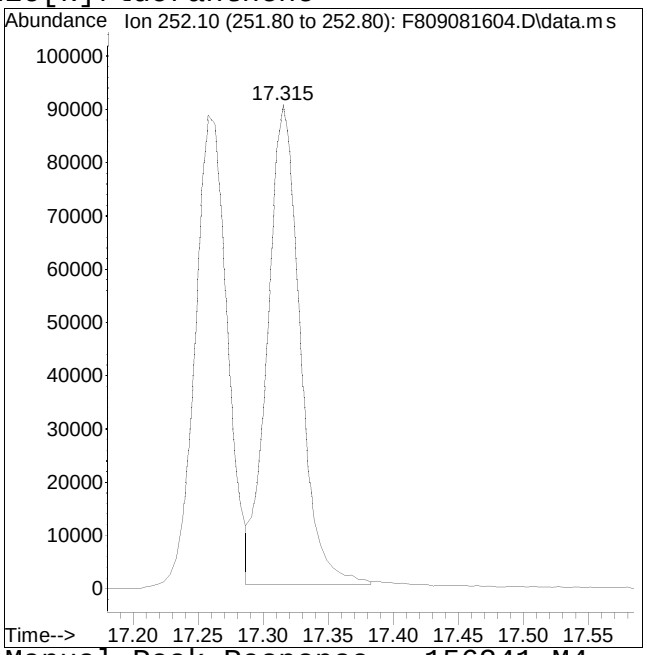
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081604.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:09 pm Instrument : BNA8
Sample : I809081602 Quant Date : 9/9/2016 7:48 am

Compound #88: Benzo[k]fluoranthene



Original Peak Response = 164911



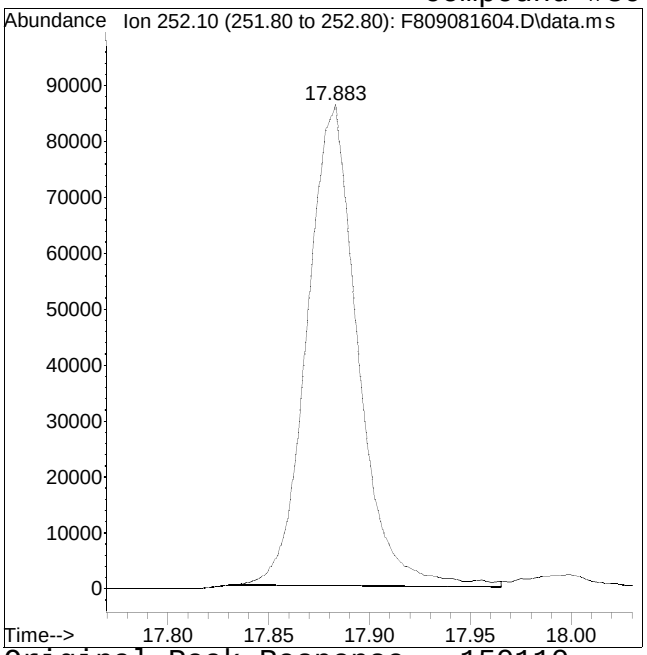
Manual Peak Response = 156241 M4

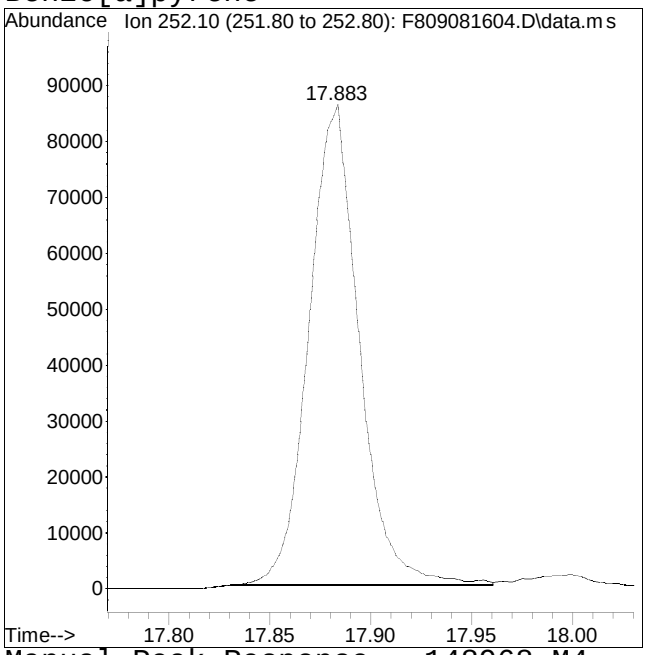
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081604.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:09 pm Instrument : BNA8
Sample : I809081602 Quant Date : 9/9/2016 7:48 am

Compound #89: Benzo[a]pyrene



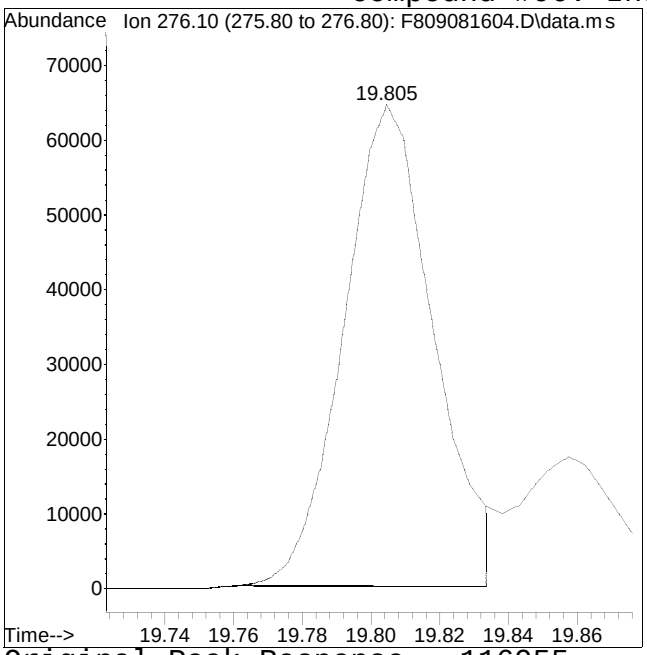


Original Peak Response = 150110 Manual Peak Response = 148968 M4
M4 = Poor automated baseline construction.

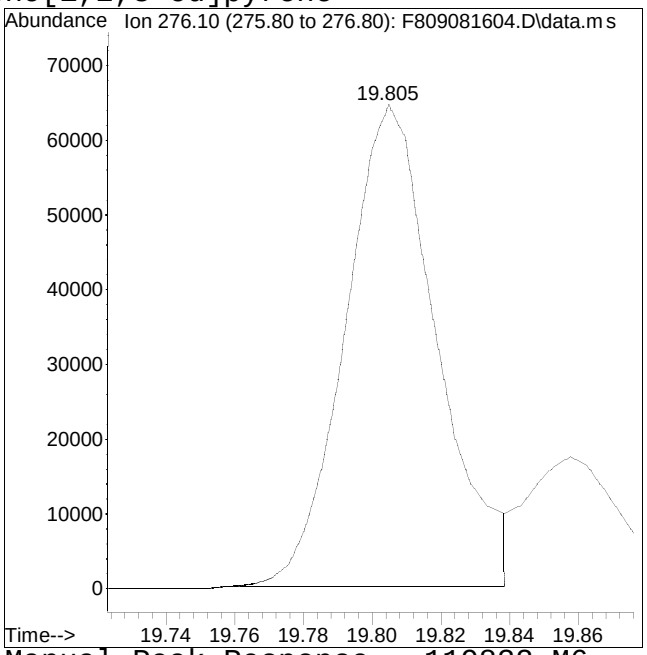
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081604.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:09 pm Instrument : BNA8
Sample : I809081602 Quant Date : 9/9/2016 7:48 am

Compound #90: Indeno[1,2,3-cd]pyrene



Original Peak Response = 116955



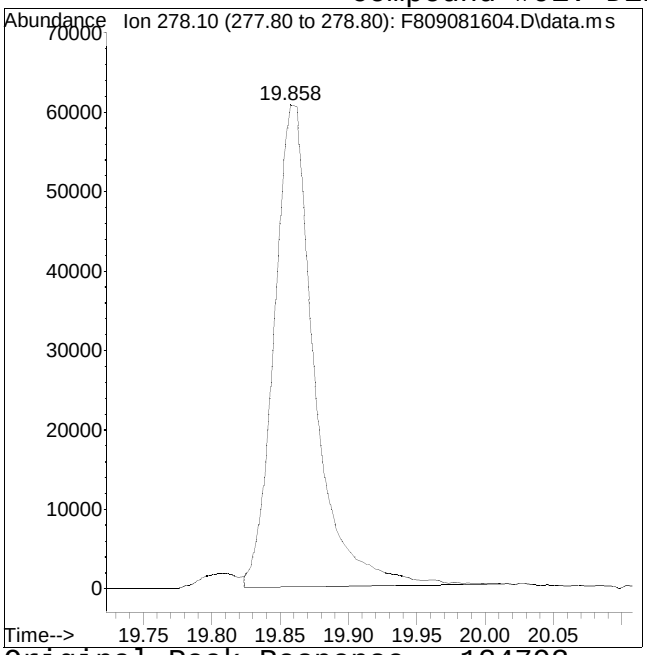
Manual Peak Response = 119832 M6

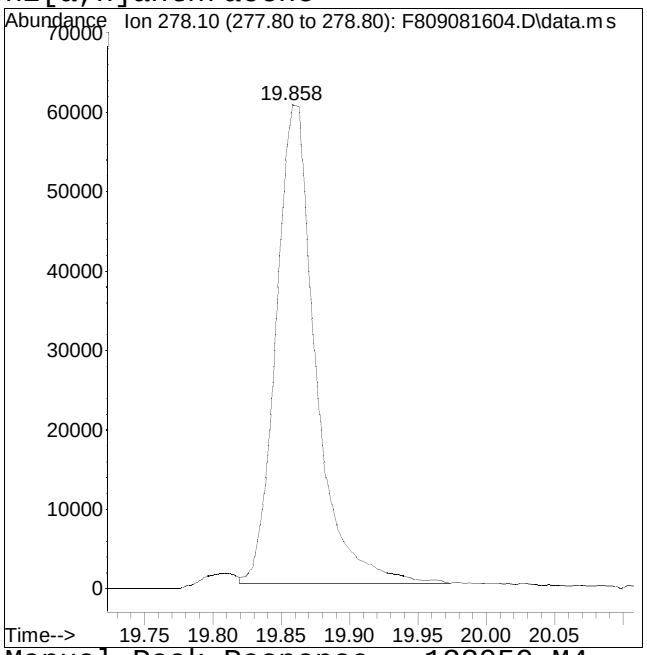
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081604.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:09 pm Instrument : BNA8
Sample : I809081602 Quant Date : 9/9/2016 7:48 am

Compound #91: Dibenz[a,h]anthracene





Original Peak Response = 124793 Manual Peak Response = 122050 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081605.D
Acq On : 8 Sep 2016 8:42 pm
Operator : BNA8:ML
Sample : I809081603
Misc : WG930406,MSAK72
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 09 11:13:33 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:13:34 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.877	152	241399	5.000 ug/mL	0.00
21) Naphthalene-d8	6.043	136	916478	5.000 ug/mL	0.00
38) Acenaphthene-d10	7.747	164	501039	5.000 ug/mL	0.00
61) Phenanthrene-d10	9.596	188	800174	5.000 ug/mL	0.00
76) Chrysene-d12	14.917	240	755150	5.000 ug/mL	0.00
85) Perylene-d12	17.999	264	668742	5.000 ug/mL	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	3.827	112	118667	2.047 ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 10.24%#		
8) Phenol-d5	4.545	99	144591	2.059 ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 10.30%		
22) Nitrobenzene-d5	5.368	82	109866M4	2.054 ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 10.27%#		
43) 2-Fluorobiphenyl	7.073	172	259625	2.054 ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 10.27%#		
65) 2,4,6-Tribromophenol	8.638	330	22497	1.912 ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 9.56%#		
79) Terphenyl-d14	12.572	244	241993	2.049 ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 10.24%#		
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	2.922	74	59850	2.064 ug/mL	98
3) Pyridine	2.951	79	116555	2.060 ug/mL	98
5) Benzaldehyde	0.000		0	N.D. d	
6) Aniline	4.593	93	174784	2.054 ug/ml	100
7) bis(2-Chloroethyl)ether	4.636	63	76392	2.101 ug/mL	98
9) Phenol	4.555	94	151031M4	2.086 ug/mL	
10) 2-Chlorophenol	4.694	128	133369	2.044 ug/mL	98
11) 1,3-Dichlorobenzene	4.824	146	150189	2.087 ug/mL	100
12) 1,4-Dichlorobenzene	4.892	146	150451M4	2.101 ug/mL	
13) 1,2-Dichlorobenzene	5.026	146	142806	2.099 ug/mL	100
14) Benzyl alcohol	4.988	108	76723	1.978 ug/mL	96
15) bis(2-chloroisopropyl)eth	5.104	45	113050	2.252 ug/mL#	64
16) 2-Methylphenol	5.079	108	107049M4	2.112 ug/mL	
17) Acetophenone	0.000		0	N.D.	
18) Hexachloroethane	5.325	117	53636	2.051 ug/mL	93
19) N-Nitroso-di-n-propylamin	5.219	70	73450	2.076 ug/mL	96
20) 4-Methylphenol	5.219	108	114898	2.099 ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081605.D
Acq On : 8 Sep 2016 8:42 pm
Operator : BNA8:ML
Sample : I809081603
Misc : WG930406,MSAK72
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 09 11:13:33 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:13:34 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Nitrobenzene	5.388	77	110708	2.083	ug/mL	97
24) Isophorone	5.604	82	176057	2.058	ug/mL	98
25) 2-Nitrophenol	5.681	139	69851	2.010	ug/mL	99
26) 2,4-Dimethylphenol	5.710	107	115967	2.098	ug/mL	96
27) Benzoic acid	0.000		0	N.D.	d	
28) bis(2-Chloroethoxy)methan	5.797	93	127607	2.059	ug/mL	99
29) 2,4-Dichlorophenol	5.903	162	101574	2.009	ug/mL	99
30) 1,2,4-Trichlorobenzene	5.980	180	112824	2.055	ug/mL	99
31) Naphthalene	6.062	128	369520	2.099	ug/mL	99
32) 2-Chloroaniline	5.648	127	183737	2.069	ug/ml	99
33) 4-Chloroaniline	6.110	127	154825M4	2.043	ug/mL	
34) Hexachlorobutadiene	6.168	225	56795	2.035	ug/mL	99
35) Caprolactam	0.000		0	N.D.	d	
36) 4-Chloro-3-methylphenol	6.572	107	98769	2.028	ug/mL	98
37) 2-Methylnaphthalene	6.721	142	245466	2.055	ug/mL	98
39) 1,2,4,5-Tetrachlorobenzen	6.880	216	106685	2.043	ug/mL	99
40) Hexachlorocyclopentadiene	6.871	237	32623	1.737	ug/mL	96
41) 2,4,6-Trichlorophenol	6.996	196	69246M6	1.841	ug/mL	
42) 2,4,5-Trichlorophenol	7.030	196	68957	2.048	ug/mL	98
44) Biphenyl	0.000		0	N.D.		
45) 2-Chloronaphthalene	7.193	162	232568	2.056	ug/mL	99
46) 2-Nitroaniline	7.294	65	51491	1.969	ug/mL	97
47) Acenaphthylene	7.603	152	386436	2.066	ug/mL	99
48) Dimethylphthalate	7.468	163	243247	1.999	ug/mL	99
49) 2,6-Dinitrotoluene	7.530	165	54484	1.927	ug/mL	94
50) Acenaphthene	7.781	153	237028	2.083	ug/mL	98
51) 3-Nitroaniline	7.704	138	64316	1.988	ug/mL	97
52) 2,4-Dinitrophenol	7.810	184	6607	2.083	ug/mL#	67
53) Dibenzofuran	7.964	168	310299	2.088	ug/mL	98
54) 2,3,4,6-Tetrachlorophenol	8.099	232	39559	1.755	ug/mL	97
55) 2,4-Dinitrotoluene	7.945	165	71257	1.965	ug/mL#	81
56) 4-Nitrophenol	7.887	109	21667	1.780	ug/mL	98
57) Fluorene	8.349	166	256632	2.097	ug/mL	99
58) 4-Chlorophenyl-phenylethe	8.344	204	114511	2.090	ug/mL	99
59) Diethylphthalate	8.209	149	249347	2.005	ug/mL	100
60) 4-Nitroaniline	8.373	138	65368	1.957	ug/mL	96
62) 4,6-Dinitro-2-methylpheno	8.402	198	19379	2.188	ug/mL#	94
63) Azobenzene	8.537	182	67041	2.065	ug/mL	86
64) n-Nitrosodiphenylamine	8.489	169	178692	2.101	ug/mL	99
66) 4-Bromophenyl-phenylether	8.956	248	59449	2.002	ug/mL	98
67) Hexachlorobenzene	9.033	284	62269	2.006	ug/mL	99

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081605.D
Acq On : 8 Sep 2016 8:42 pm
Operator : BNA8:ML
Sample : I809081603
Misc : WG930406,MSAK72
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 09 11:13:33 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:13:34 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
68) Atrazine	0.000		0	N.D. d	
69) Pentachlorophenol	9.317	266	11624	2.401 ug/mL	99
70) Pentachloronitrobenzene	9.327	237	24021	1.942 ug/ml	92
71) Phenanthrene	9.630	178	356070	2.057 ug/mL	99
72) Anthracene	9.707	178	360918	2.104 ug/mL	98
73) Carbazole	9.972	167	350001	2.121 ug/mL	99
74) Di-n-butylphthalate	10.593	149	414921	2.079 ug/mL	99
75) Fluoranthene	11.720	202	377078	2.097 ug/mL	97
77) Benzidine	0.000		0	N.D.	
78) Pyrene	12.172	202	385317	2.044 ug/mL	98
80) Butylbenzylphthalate	13.761	149	180185	1.948 ug/mL	97
81) 3,3'-Dichlorobenzidine	0.000		0	N.D.	
82) Benz[a]anthracene	14.893	228	343757M6	1.928 ug/mL	
83) Chrysene	14.975	228	344367M4	2.076 ug/mL	
84) bis(2-Ethylhexyl)phthalat	15.230	149	237085	1.948 ug/mL	100
86) Di-n-octylphthalate	16.723	149	406511	1.914 ug/mL	99
87) Benzo[b]fluoranthene	17.262	252	312219M6	1.912 ug/mL	
88) Benzo[k]fluoranthene	17.315	252	324494M6	2.174 ug/mL	
89) Benzo[a]pyrene	17.883	252	319024	2.074 ug/mL	99
90) Indeno[1,2,3-cd]pyrene	19.805	276	252323M6	1.886 ug/mL	
91) Dibenz[a,h]anthracene	19.862	278	255176M4	1.893 ug/mL	
92) Benzo[g,h,i]perylene	20.252	276	293294	2.027 ug/mL	99

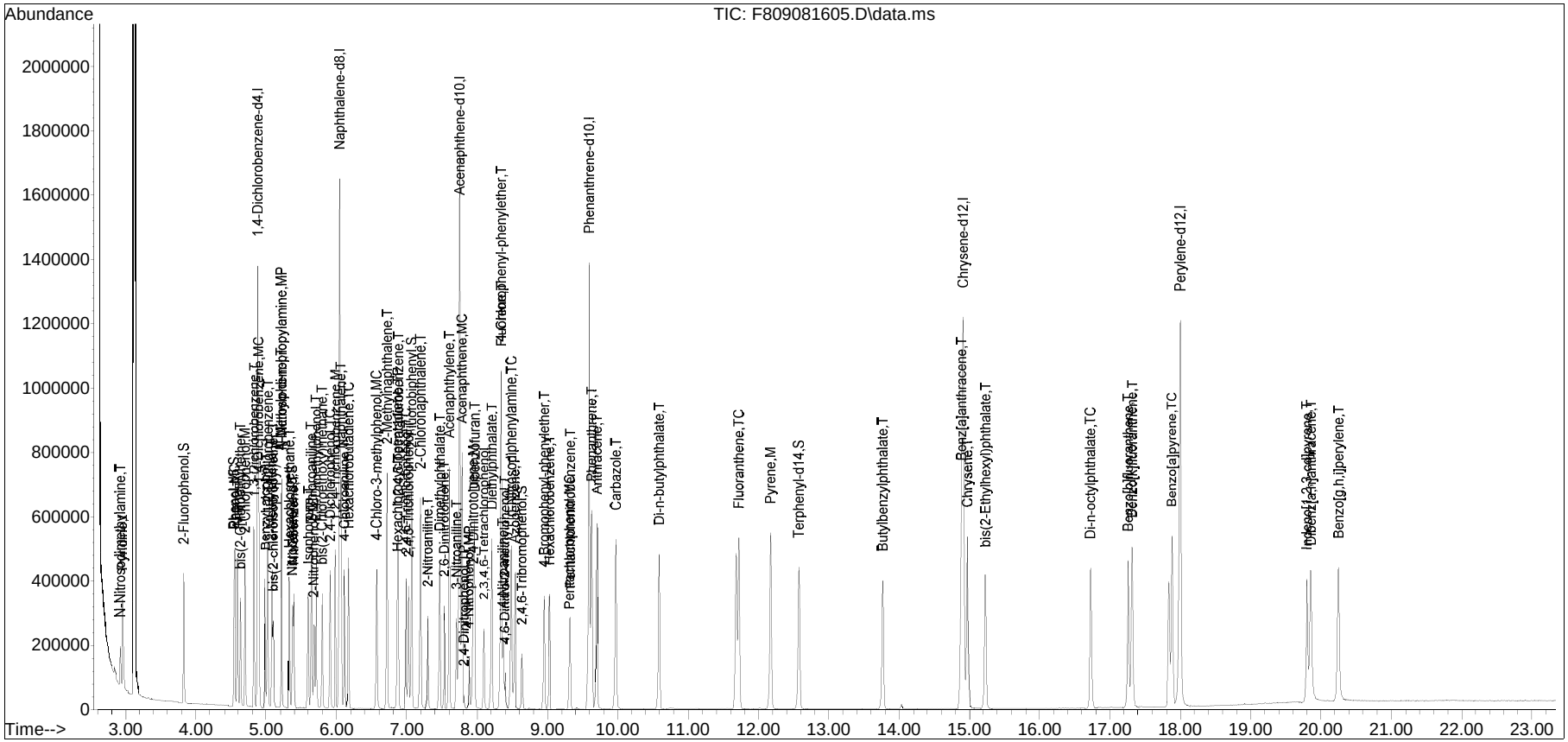
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081605.D
Acq On : 8 Sep 2016 8:42 pm
Operator : BNA8:ML
Sample : I809081603
Misc : WG930406,MSAK72
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 09 11:13:33 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:13:34 2016
Response via : Initial Calibration

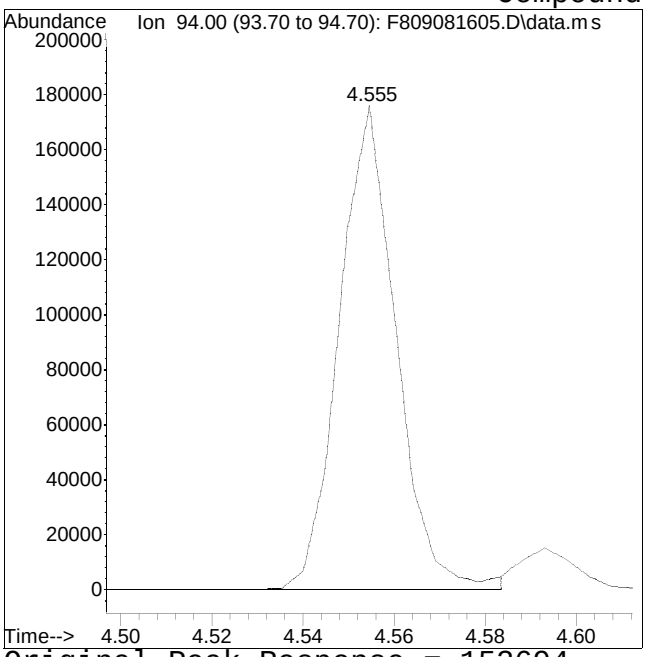
Sub List : Default - All compounds listed

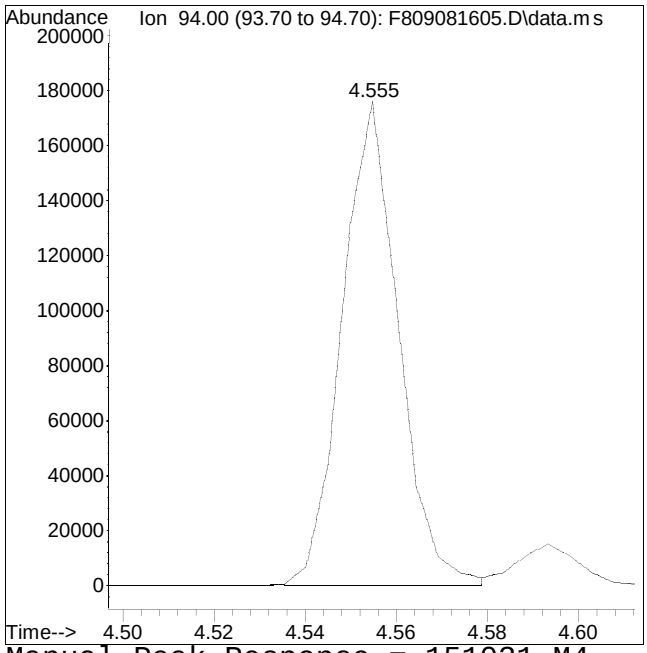


Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081605.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:42 pm Instrument : BNA8
Sample : I809081603 Quant Date : 9/9/2016 11:13 am

Compound #9: Phenol



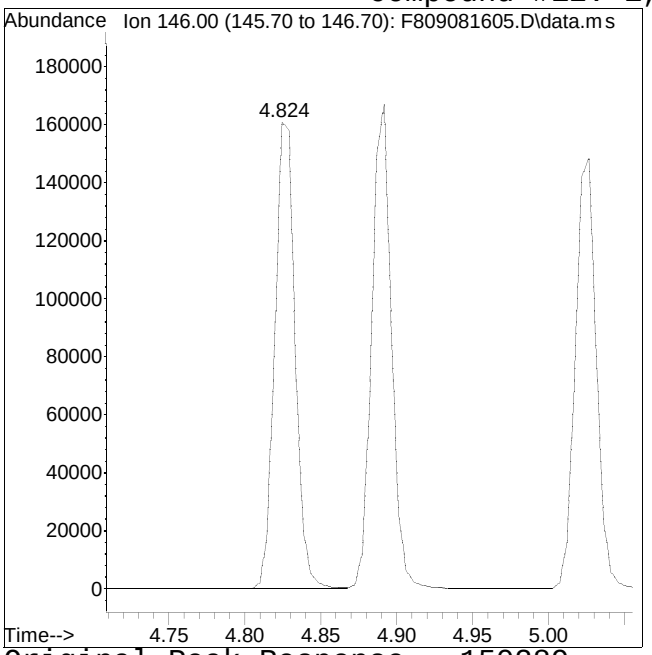


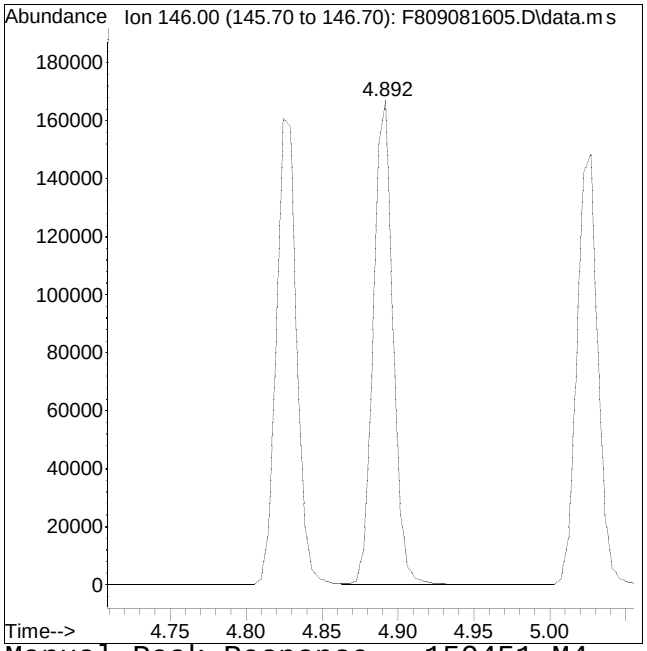
Original Peak Response = 152694 Manual Peak Response = 151031 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081605.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:42 pm Instrument : BNA8
Sample : I809081603 Quant Date : 9/9/2016 11:13 am

Compound #12: 1,4-Dichlorobenzene



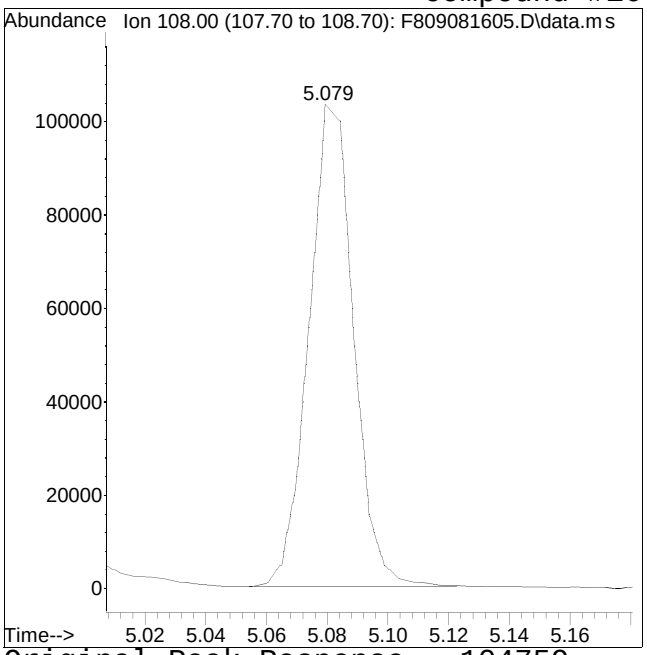


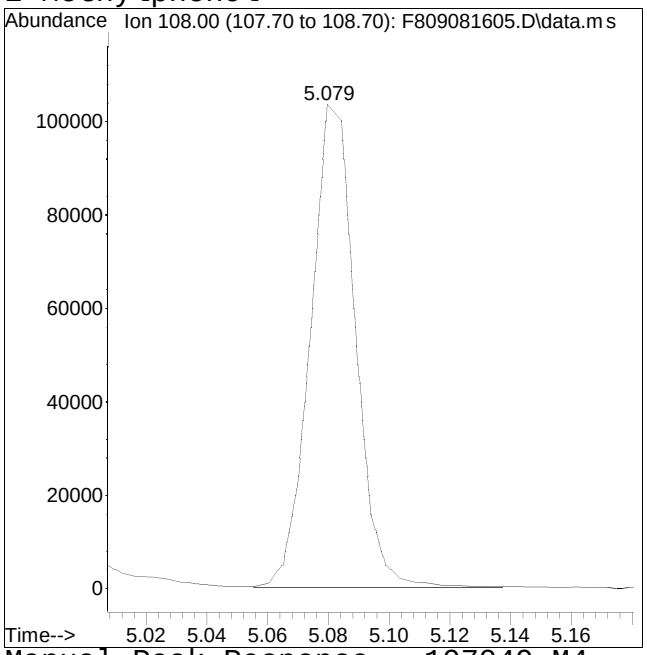
Original Peak Response = 150289 Manual Peak Response = 150451 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081605.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:42 pm Instrument : BNA8
Sample : I809081603 Quant Date : 9/9/2016 11:13 am

Compound #16: 2-Methylphenol



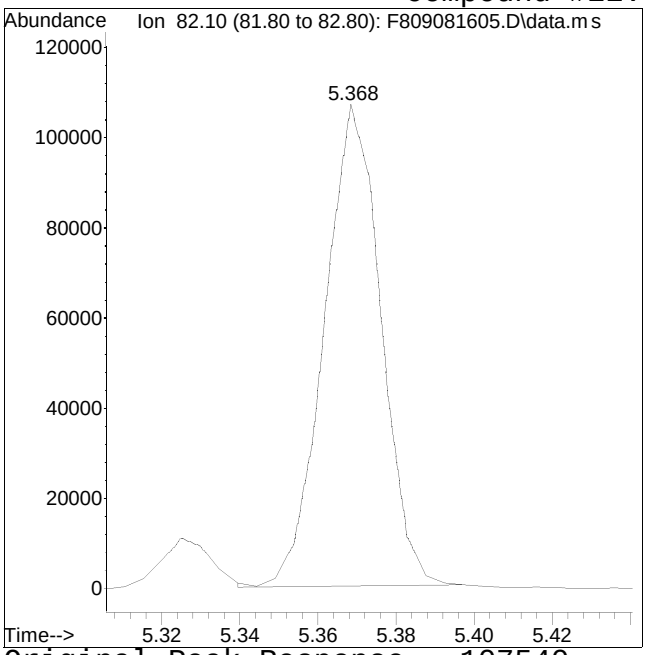


Original Peak Response = 104759 Manual Peak Response = 107049 M4
M4 = Poor automated baseline construction.

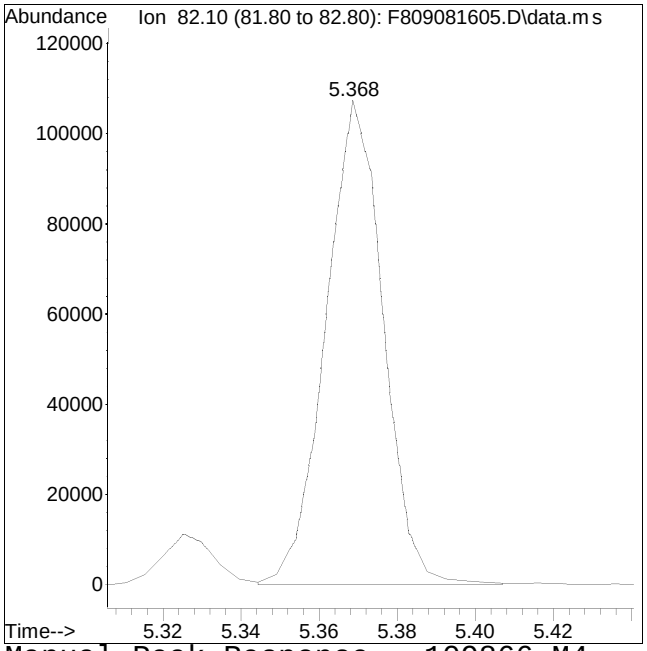
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081605.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:42 pm Instrument : BNA8
Sample : I809081603 Quant Date : 9/9/2016 11:13 am

Compound #22: Nitrobenzene-d5



Original Peak Response = 107540



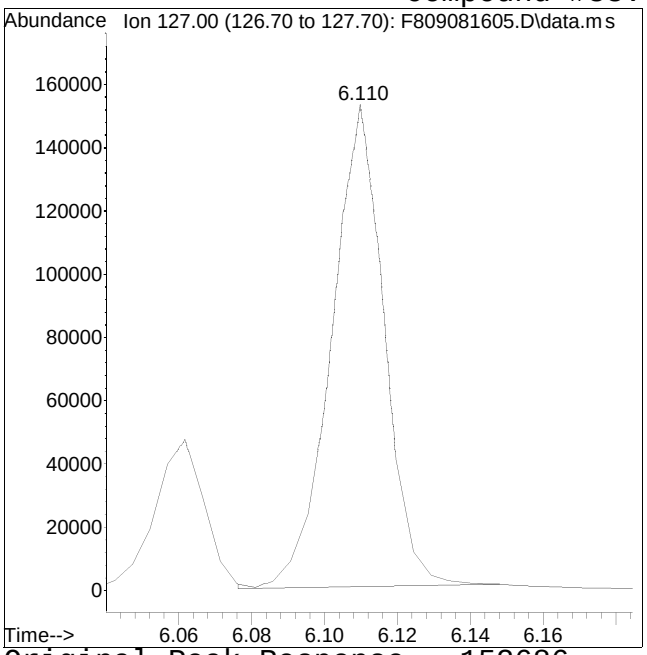
Manual Peak Response = 109866 M4

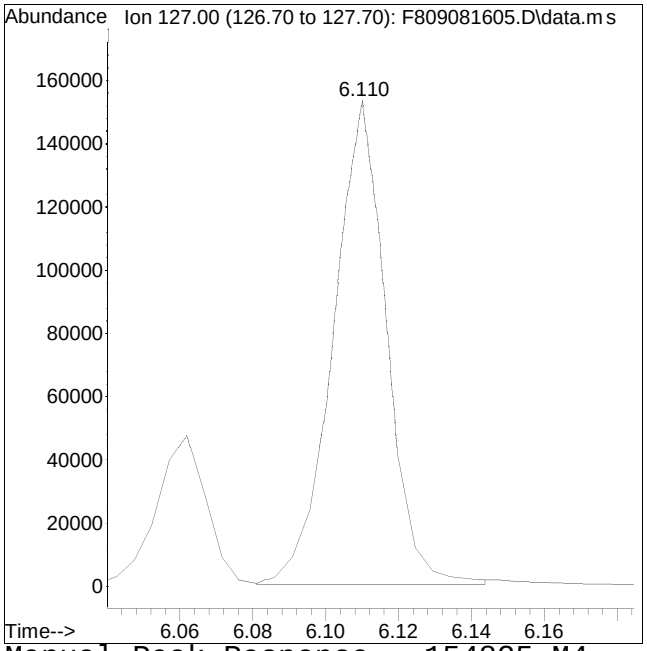
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081605.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:42 pm Instrument : BNA8
Sample : I809081603 Quant Date : 9/9/2016 11:13 am

Compound #33: 4-Chloroaniline



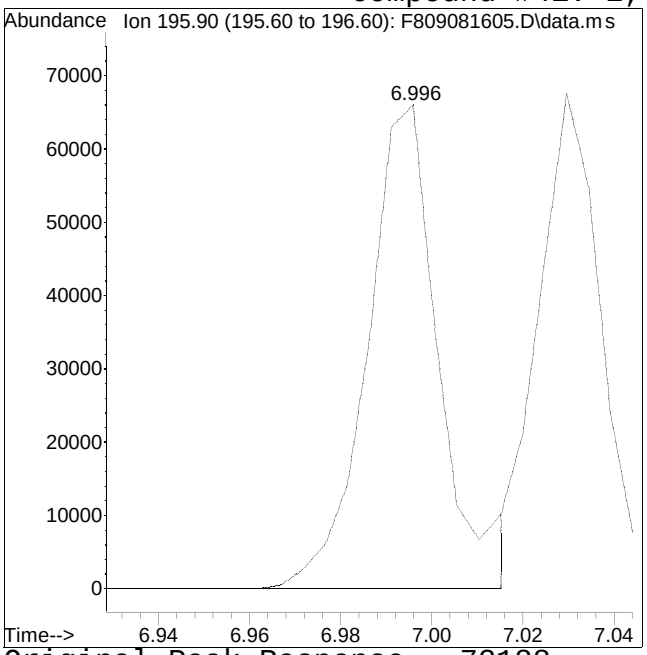


Original Peak Response = 152686 Manual Peak Response = 154825 M4
M4 = Poor automated baseline construction.

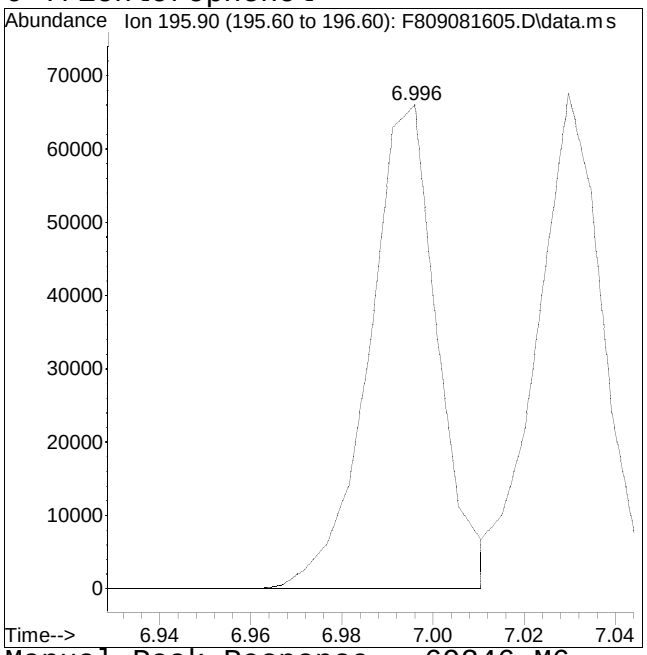
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081605.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:42 pm Instrument : BNA8
Sample : I809081603 Quant Date : 9/9/2016 11:13 am

Compound #41: 2,4,6-Trichlorophenol



Original Peak Response = 72188



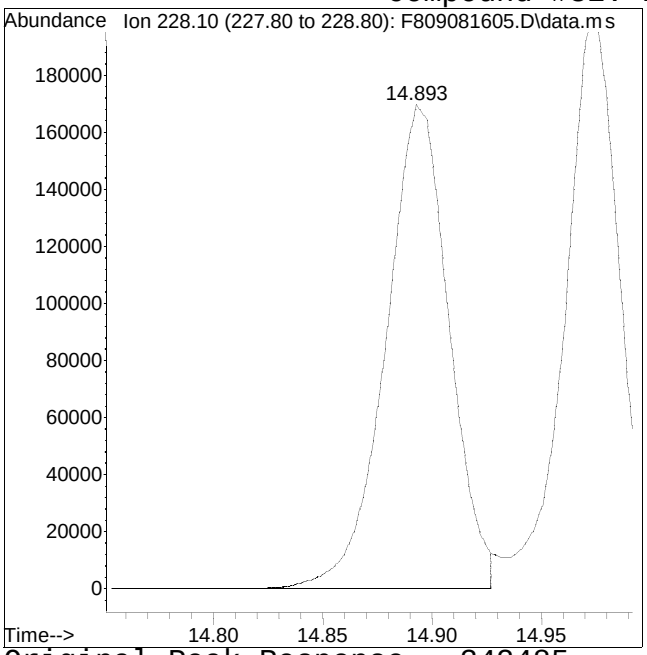
Manual Peak Response = 69246 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

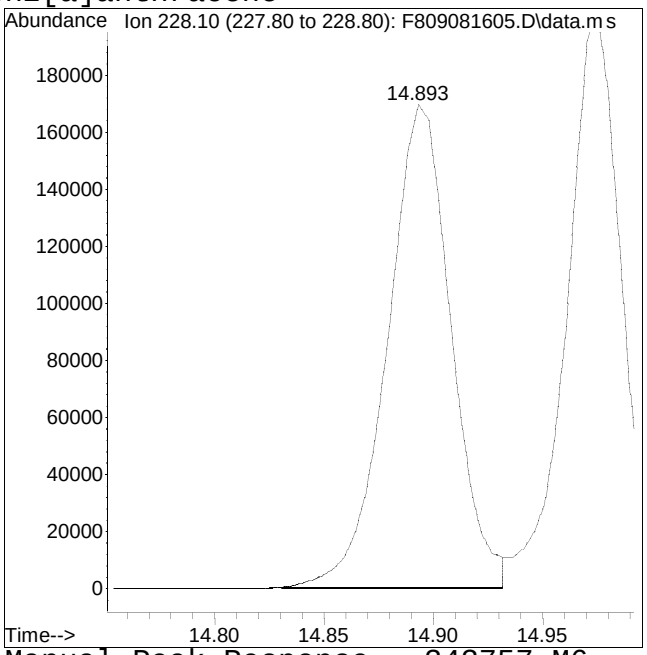
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081605.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:42 pm Instrument : BNA8
Sample : I809081603 Quant Date : 9/9/2016 11:13 am

Compound #82: Benz[a]anthracene



Original Peak Response = 342485



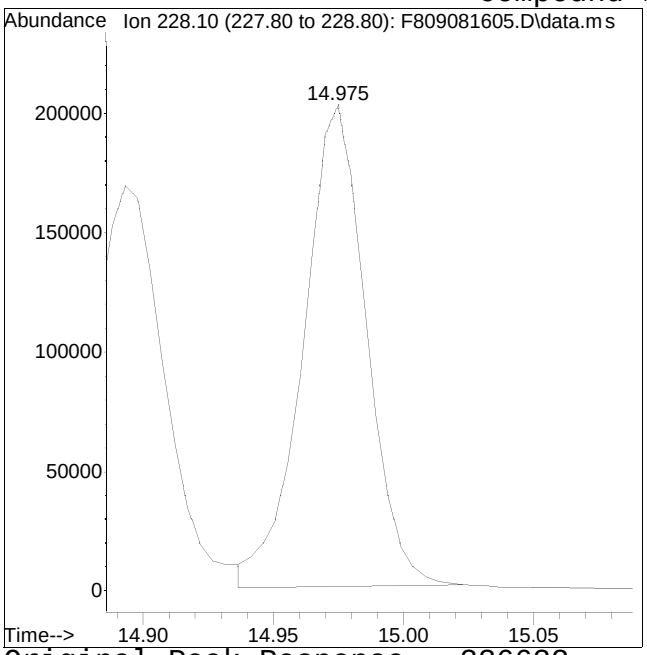
Manual Peak Response = 343757 M6

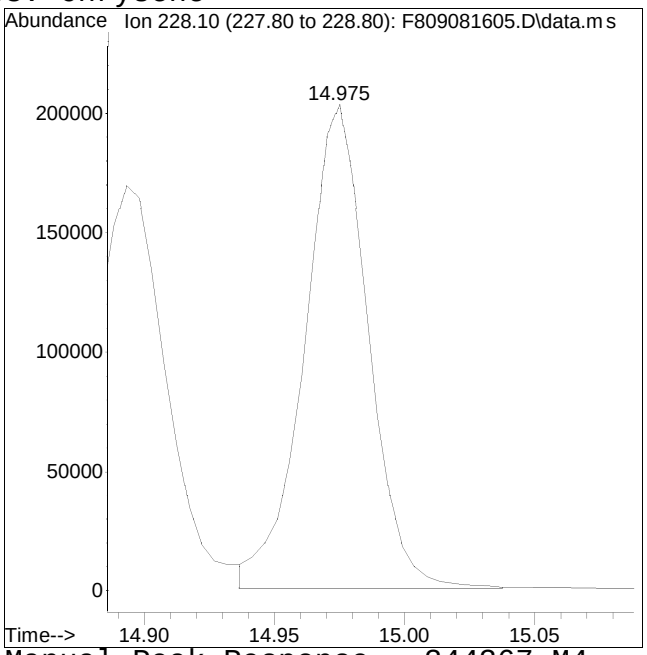
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081605.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:42 pm Instrument : BNA8
Sample : I809081603 Quant Date : 9/9/2016 11:13 am

Compound #83: Chrysene



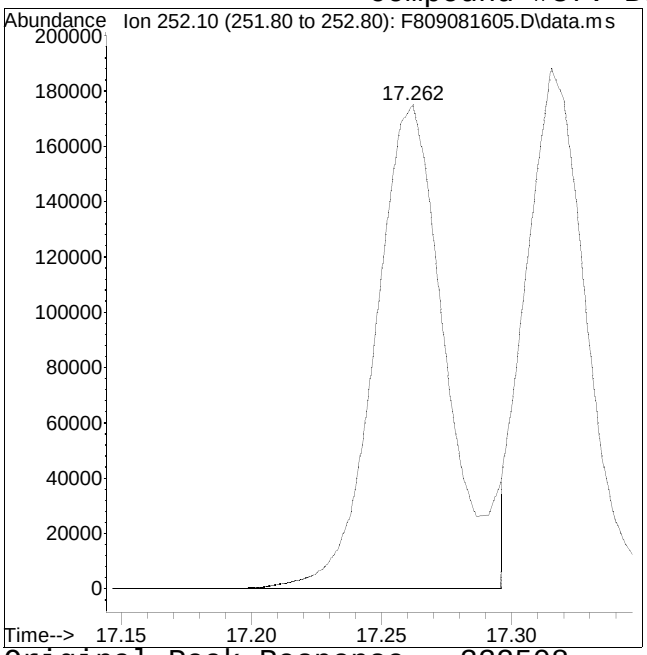


Original Peak Response = 336632 Manual Peak Response = 344367 M4
M4 = Poor automated baseline construction.

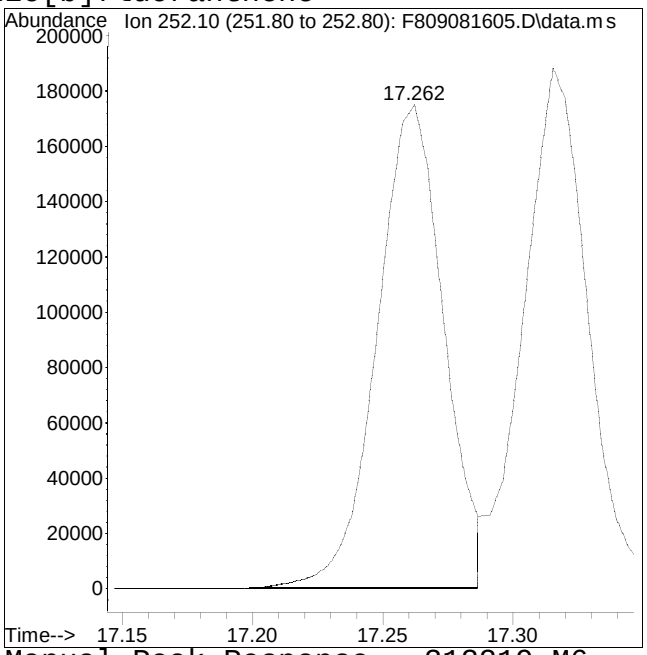
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081605.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:42 pm Instrument : BNA8
Sample : I809081603 Quant Date : 9/9/2016 11:13 am

Compound #87: Benzo[b]fluoranthene



Original Peak Response = 332508



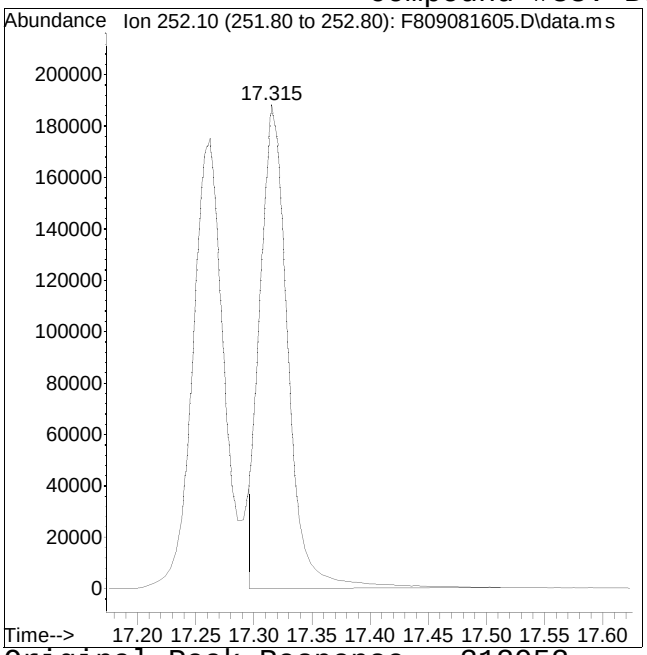
Manual Peak Response = 312219 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

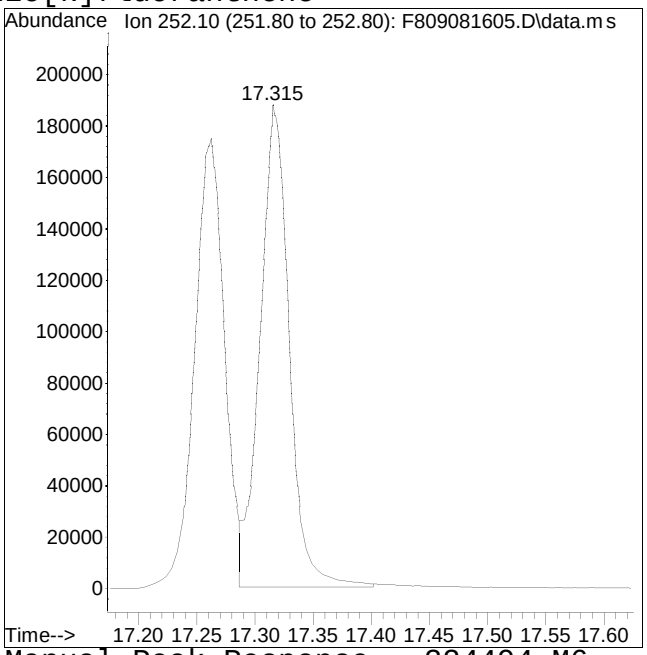
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081605.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:42 pm Instrument : BNA8
Sample : I809081603 Quant Date : 9/9/2016 11:13 am

Compound #88: Benzo[k]fluoranthene



Original Peak Response = 312952



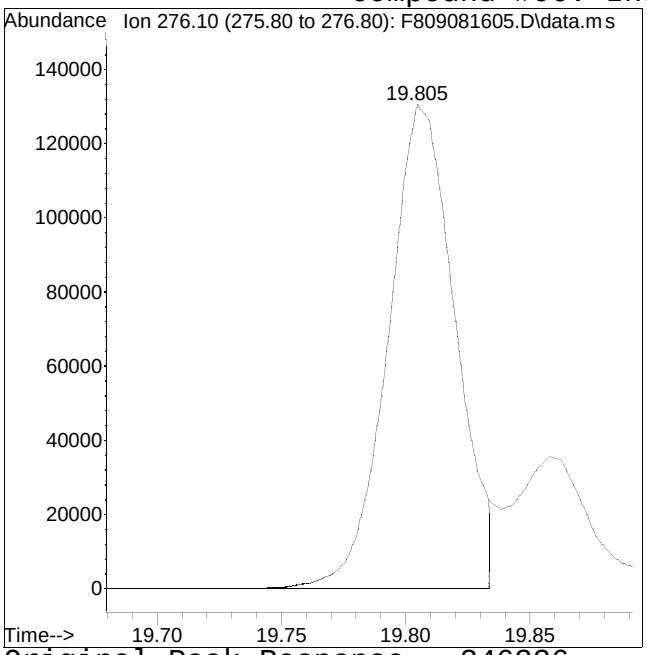
Manual Peak Response = 324494 M6

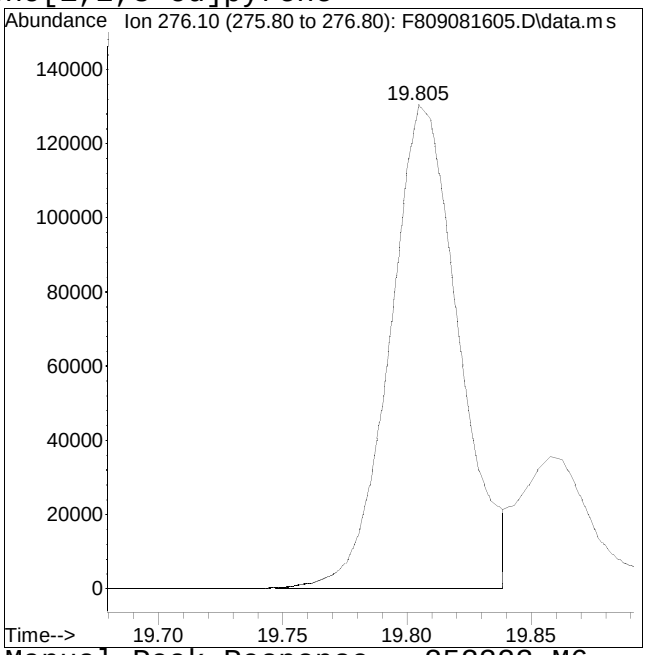
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081605.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:42 pm Instrument : BNA8
Sample : I809081603 Quant Date : 9/9/2016 11:13 am

Compound #90: Indeno[1,2,3-cd]pyrene



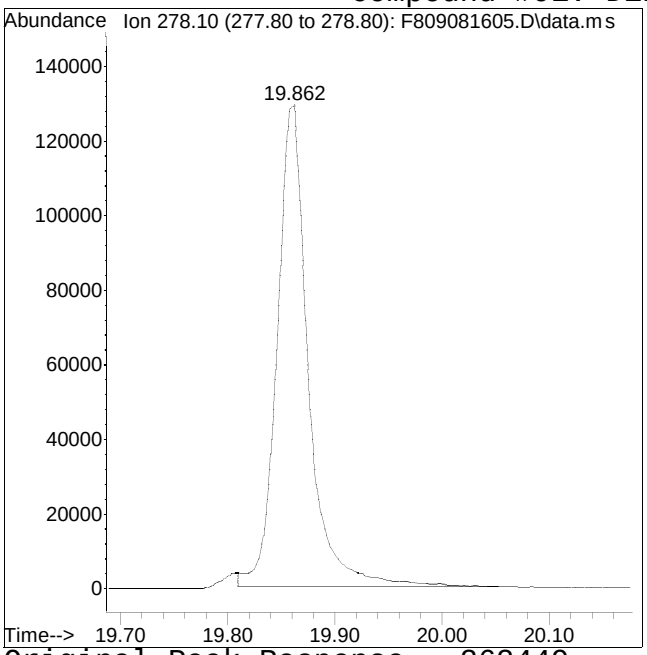


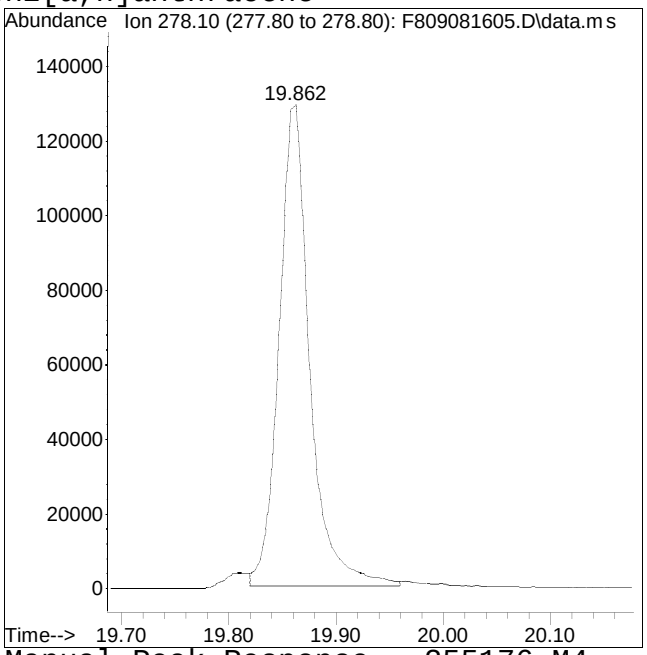
Original Peak Response = 246326 Manual Peak Response = 252323 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081605.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 8:42 pm Instrument : BNA8
Sample : I809081603 Quant Date : 9/9/2016 11:13 am

Compound #91: Dibenz[a,h]anthracene





Original Peak Response = 262449 Manual Peak Response = 255176 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081606.D
Acq On : 8 Sep 2016 9:16 pm
Operator : BNA8:ML
Sample : I809081604
Misc : WG930406,MSAK73
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 09 10:44:20 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 09:05:04 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.877	152	231031	5.000 ug/mL	0.00
21) Naphthalene-d8	6.042	136	870763	5.000 ug/mL	0.00
38) Acenaphthene-d10	7.747	164	476151	5.000 ug/mL	0.00
61) Phenanthrene-d10	9.596	188	767588	5.000 ug/mL	0.00
76) Chrysene-d12	14.922	240	728414	5.000 ug/mL	0.00
85) Perylene-d12	17.999	264	636046	5.000 ug/mL	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	3.827	112	276753	4.988 ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 24.94%		
8) Phenol-d5	4.545	99	334815	4.981 ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 24.91%		
22) Nitrobenzene-d5	5.373	82	253568	5.005 ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 25.02%#		
43) 2-Fluorobiphenyl	7.073	172	598635	4.983 ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 24.91%#		
65) 2,4,6-Tribromophenol	8.643	330	56808	5.032 ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 25.16%		
79) Terphenyl-d14	12.577	244	564007	4.950 ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 24.75%#		
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	2.927	74	136775	4.929 ug/mL#	98
3) Pyridine	2.956	79	261811	4.835 ug/mL	100
5) Benzaldehyde	0.000		0	N.D. d	
6) Aniline	4.593	93	402305	4.919 ug/ml	100
7) bis(2-Chloroethyl)ether	4.636	63	174419	5.012 ug/mL	99
9) Phenol	4.559	94	347822	5.013 ug/mL	93
10) 2-Chlorophenol	4.699	128	310388	4.971 ug/mL	98
11) 1,3-Dichlorobenzene	4.829	146	345480	5.015 ug/mL	100
12) 1,4-Dichlorobenzene	4.892	146	341844	4.988 ug/mL	99
13) 1,2-Dichlorobenzene	5.026	146	327326	5.027 ug/mL	100
14) Benzyl alcohol	4.993	108	184489	4.970 ug/mL	99
15) bis(2-chloroisopropyl)eth	5.103	45	249782	5.199 ug/mL#	20
16) 2-Methylphenol	5.084	108	244176M4	5.125 ug/mL	
17) Acetophenone	0.000		0	N.D. d	
18) Hexachloroethane	5.330	117	124729	4.984 ug/mL	93
19) N-Nitroso-di-n-propylamin	5.229	70	169127	4.994 ug/mL	95
20) 4-Methylphenol	5.219	108	262951	5.018 ug/mL	98
23) Nitrobenzene	5.388	77	252604	5.001 ug/mL	96

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081606.D
Acq On : 8 Sep 2016 9:16 pm
Operator : BNA8:ML
Sample : I809081604
Misc : WG930406,MSAK73
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 09 10:44:20 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 09:05:04 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Isophorone	5.609	82	407046	5.008	ug/mL	97
25) 2-Nitrophenol	5.681	139	165808	5.021	ug/mL#	86
26) 2,4-Dimethylphenol	5.710	107	264281	5.033	ug/mL	97
27) Benzoic acid	5.787	105	17151M4	7.160	ug/mL	
28) bis(2-Chloroethoxy)methan	5.802	93	295097	5.012	ug/mL	99
29) 2,4-Dichlorophenol	5.908	162	241130	5.020	ug/mL	98
30) 1,2,4-Trichlorobenzene	5.985	180	258366	4.954	ug/mL	99
31) Naphthalene	6.062	128	842745	5.038	ug/mL	99
32) 2-Chloroaniline	5.648	127	425729	5.045	ug/ml	99
33) 4-Chloroaniline	6.110	127	361547M4	5.095	ug/mL	
34) Hexachlorobutadiene	6.168	225	131287	4.951	ug/mL	99
35) Caprolactam	0.000		0	N.D.	d	
36) 4-Chloro-3-methylphenol	6.572	107	233045	5.036	ug/mL	99
37) 2-Methylnaphthalene	6.721	142	570314	5.024	ug/mL	99
39) 1,2,4,5-Tetrachlorobenzen	6.880	216	243075	4.899	ug/mL	100
40) Hexachlorocyclopentadiene	6.871	237	91743	4.369	ug/mL	96
41) 2,4,6-Trichlorophenol	6.996	196	171590M6	4.800	ug/mL	
42) 2,4,5-Trichlorophenol	7.030	196	162146M4	5.081	ug/mL	
44) Biphenyl	0.000		0	N.D.	d	
45) 2-Chloronaphthalene	7.198	162	531792	4.946	ug/mL	98
46) 2-Nitroaniline	7.299	65	125297	5.041	ug/mL	98
47) Acenaphthylene	7.607	152	890147	5.007	ug/mL	99
48) Dimethylphthalate	7.468	163	561060	4.851	ug/mL	100
49) 2,6-Dinitrotoluene	7.535	165	130374	4.853	ug/mL	93
50) Acenaphthene	7.781	153	535344	4.950	ug/mL	96
51) 3-Nitroaniline	7.709	138	151407	4.925	ug/mL	99
52) 2,4-Dinitrophenol	7.814	184	40545	4.162	ug/mL#	79
53) Dibenzofuran	7.964	168	701987	4.971	ug/mL	99
54) 2,3,4,6-Tetrachlorophenol	8.099	232	106344	4.964	ug/mL	96
55) 2,4-Dinitrotoluene	7.949	165	173619	5.038	ug/mL#	85
56) 4-Nitrophenol	7.887	109	58468	5.045	ug/mL	98
57) Fluorene	8.349	166	581628	5.000	ug/mL	100
58) 4-Chlorophenyl-phenylethe	8.344	204	258405	4.962	ug/mL	99
59) Diethylphthalate	8.214	149	582262	4.926	ug/mL	100
60) 4-Nitroaniline	8.378	138	161607	5.111	ug/mL	96
62) 4,6-Dinitro-2-methylpheno	8.407	198	68489	3.886	ug/mL	93
63) Azobenzene	8.537	182	157705	5.064	ug/mL	83
64) n-Nitrosodiphenylamine	8.489	169	413303	5.086	ug/mL	99
66) 4-Bromophenyl-phenylether	8.961	248	141268	4.959	ug/mL	99
67) Hexachlorobenzene	9.033	284	145390	4.882	ug/mL	100
68) Atrazine	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081606.D
Acq On : 8 Sep 2016 9:16 pm
Operator : BNA8:ML
Sample : I809081604
Misc : WG930406,MSAK73
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 09 10:44:20 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 09:05:04 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
69) Pentachlorophenol	9.317	266	53923M4	5.118 ug/mL	
70) Pentachloronitrobenzene	9.326	237	59958	5.054 ug/ml	91
71) Phenanthrene	9.635	178	830930M4	4.998 ug/mL	
72) Anthracene	9.707	178	834928M4	5.133 ug/mL	
73) Carbazole	9.977	167	816652	5.159 ug/mL	99
74) Di-n-butylphthalate	10.598	149	990043	5.170 ug/mL	100
75) Fluoranthene	11.725	202	883332	5.120 ug/mL	97
77) Benzidine	0.000		0	N.D.	
78) Pyrene	12.177	202	899797	4.956 ug/mL	97
80) Butylbenzylphthalate	13.766	149	453211	5.081 ug/mL	97
81) 3,3'-Dichlorobenzidine	0.000		0	N.D.	
82) Benz[a]anthracene	14.898	228	837907M6	4.874 ug/mL	
83) Chrysene	14.980	228	794445M6	5.011 ug/mL	
84) bis(2-Ethylhexyl)phthalat	15.230	149	603492	5.158 ug/mL	100
86) Di-n-octylphthalate	16.728	149	1054665	5.249 ug/mL	99
87) Benzo[b]fluoranthene	17.267	252	791627	5.074 ug/mL	99
88) Benzo[k]fluoranthene	17.325	252	722597M4	5.091 ug/mL	
89) Benzo[a]pyrene	17.893	252	746468	5.074 ug/mL	99
90) Indeno[1,2,3-cd]pyrene	19.814	276	641347	4.927 ug/mL	98
91) Dibenz[a,h]anthracene	19.867	278	674190	5.228 ug/mL	97
92) Benzo[g,h,i]perylene	20.262	276	700898	5.066 ug/mL	98

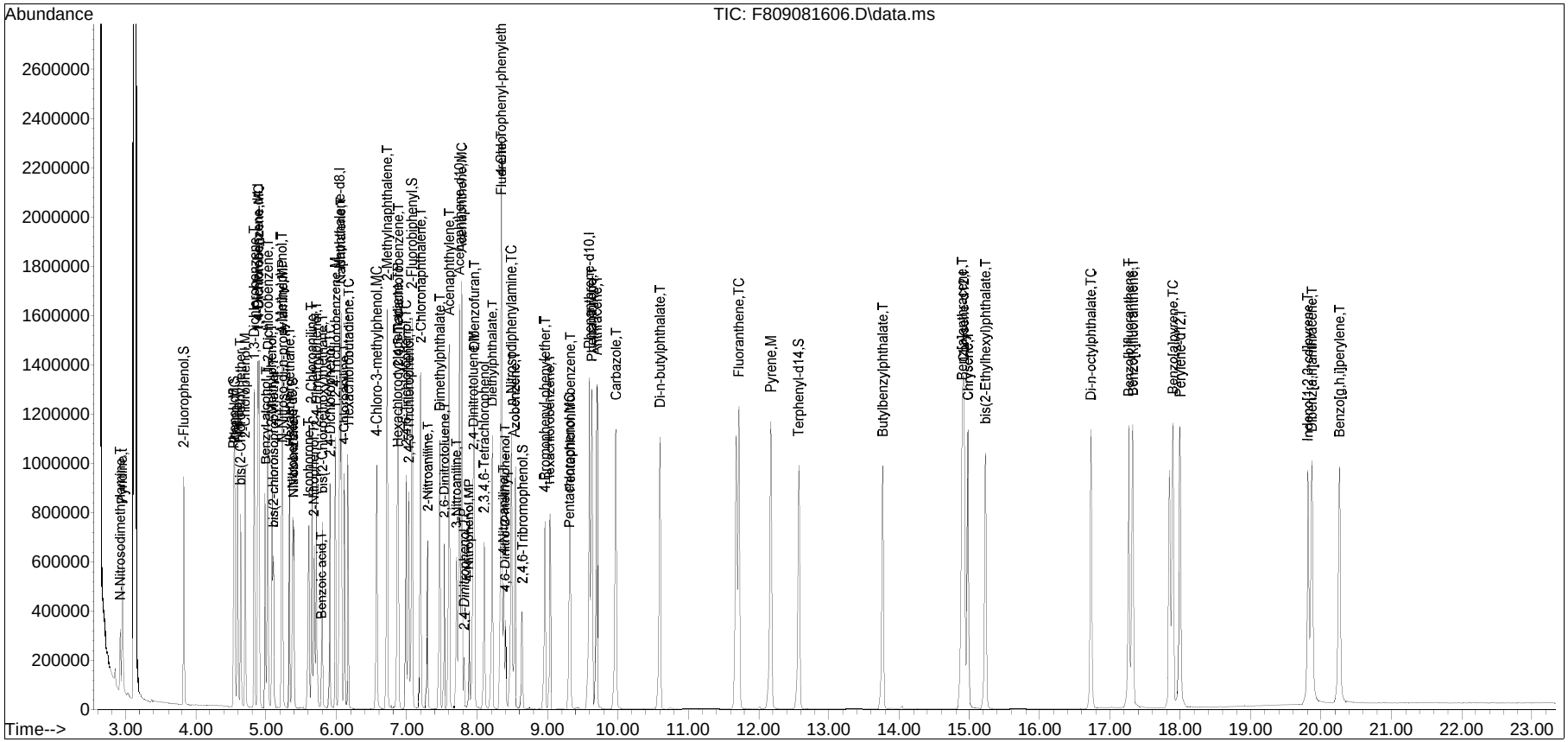
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081606.D
Acq On : 8 Sep 2016 9:16 pm
Operator : BNA8:ML
Sample : I809081604
Misc : WG930406,MSAK73
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 09 10:44:20 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 09:05:04 2016
Response via : Initial Calibration

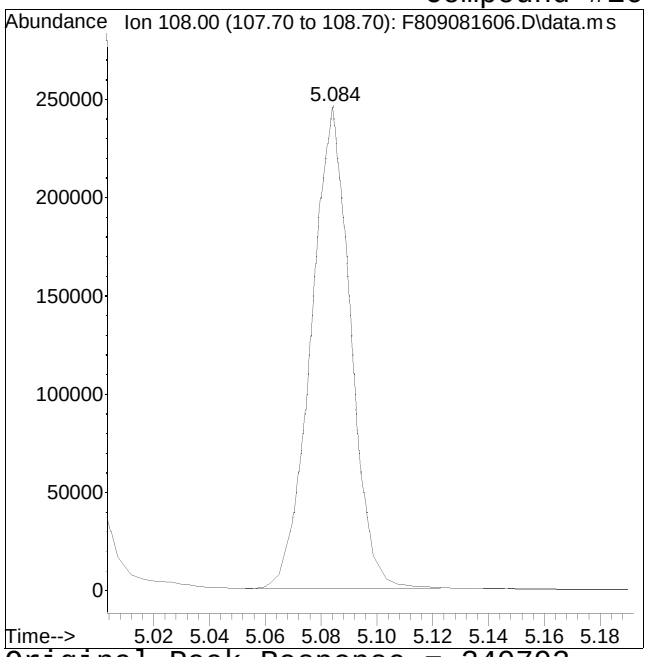
Sub List : Default - All compounds listed

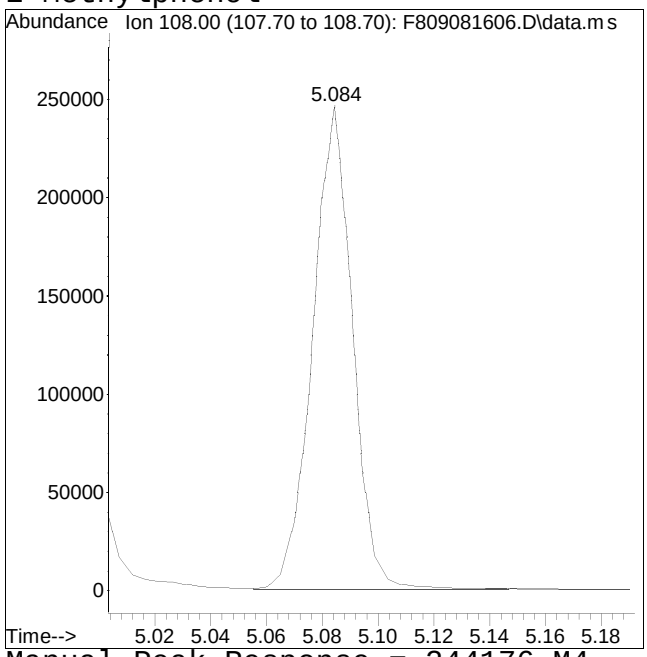


Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081606.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:16 pm Instrument : BNA8
Sample : I809081604 Quant Date : 9/9/2016 9:05 am

Compound #16: 2-Methylphenol



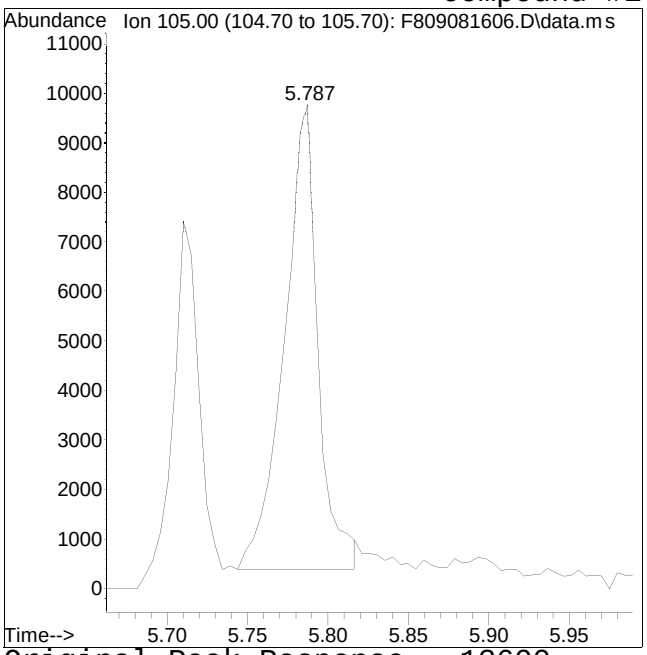


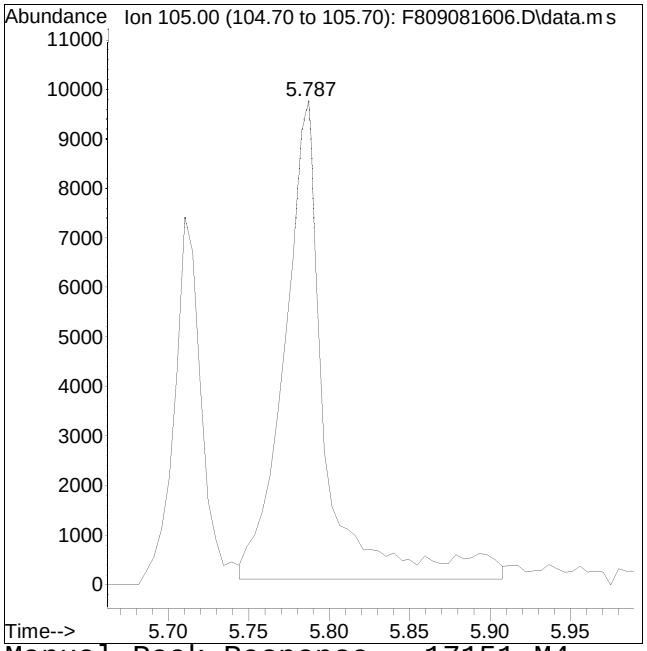
Original Peak Response = 240793 Manual Peak Response = 244176 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081606.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:16 pm Instrument : BNA8
Sample : I809081604 Quant Date : 9/9/2016 9:05 am

Compound #27: Benzoic acid



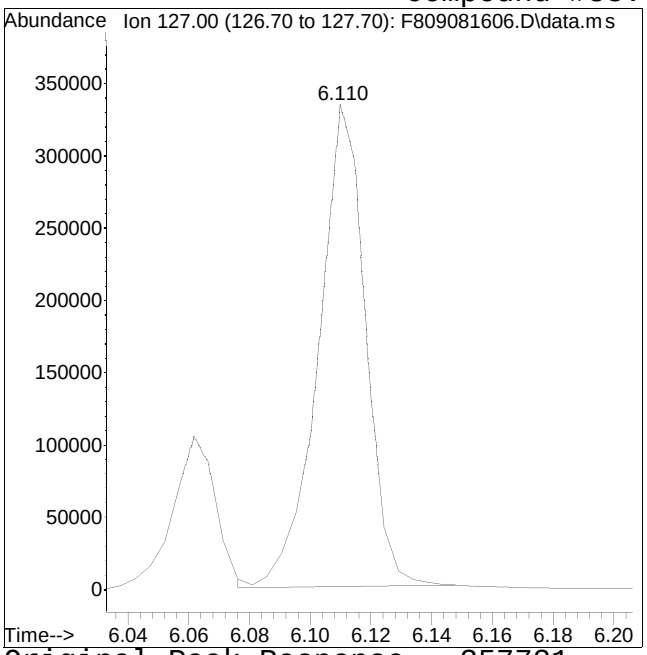


Original Peak Response = 13600 Manual Peak Response = 17151 M4
M4 = Poor automated baseline construction.

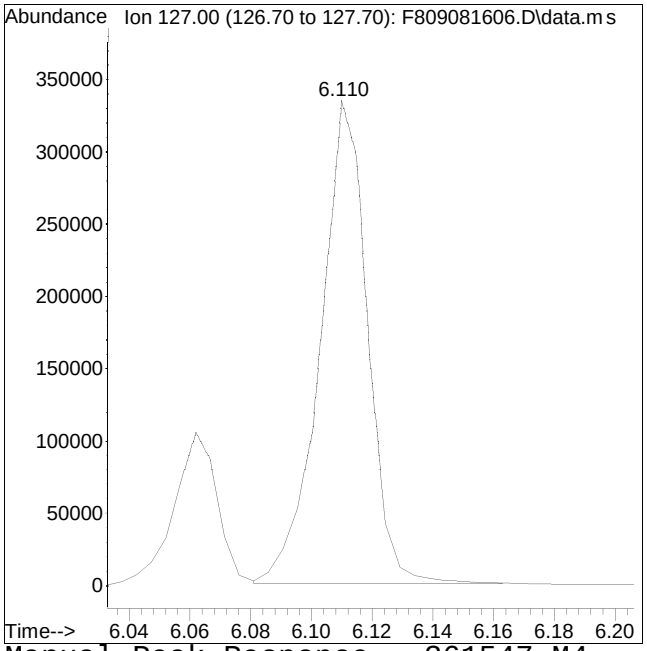
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081606.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:16 pm Instrument : BNA8
Sample : I809081604 Quant Date : 9/9/2016 9:05 am

Compound #33: 4-Chloroaniline



Original Peak Response = 357721



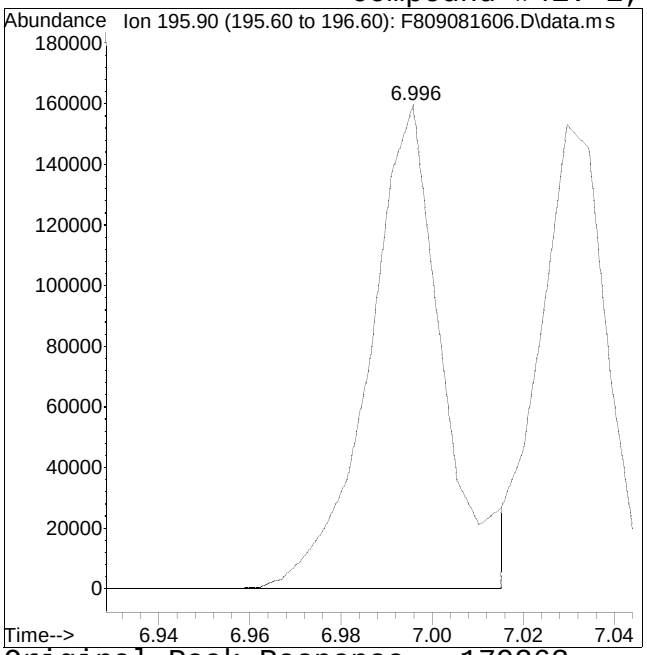
Manual Peak Response = 361547 M4

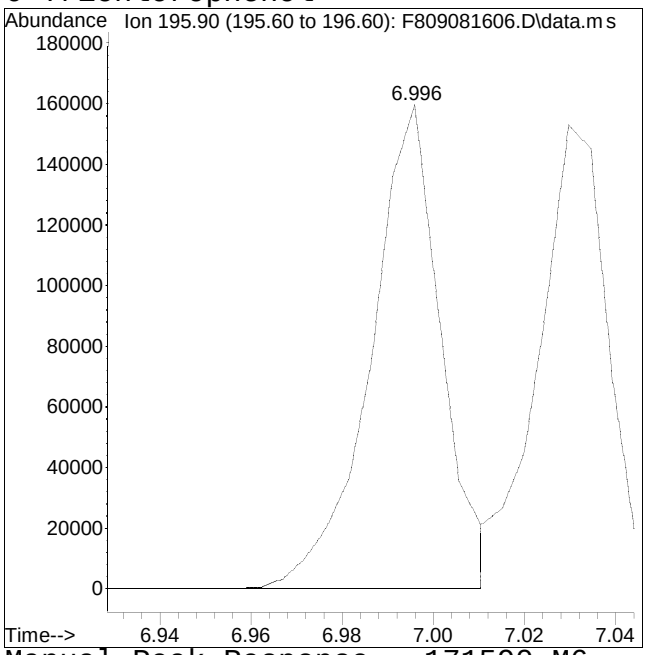
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081606.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:16 pm Instrument : BNA8
Sample : I809081604 Quant Date : 9/9/2016 9:05 am

Compound #41: 2,4,6-Trichlorophenol



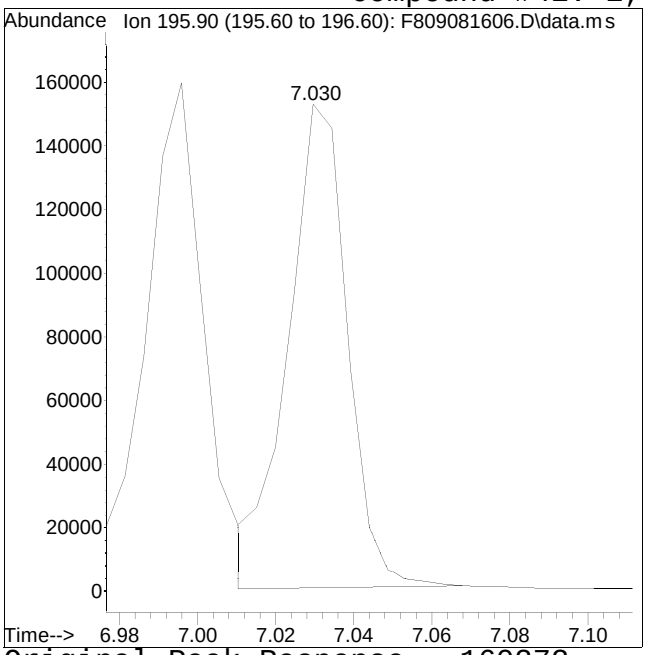


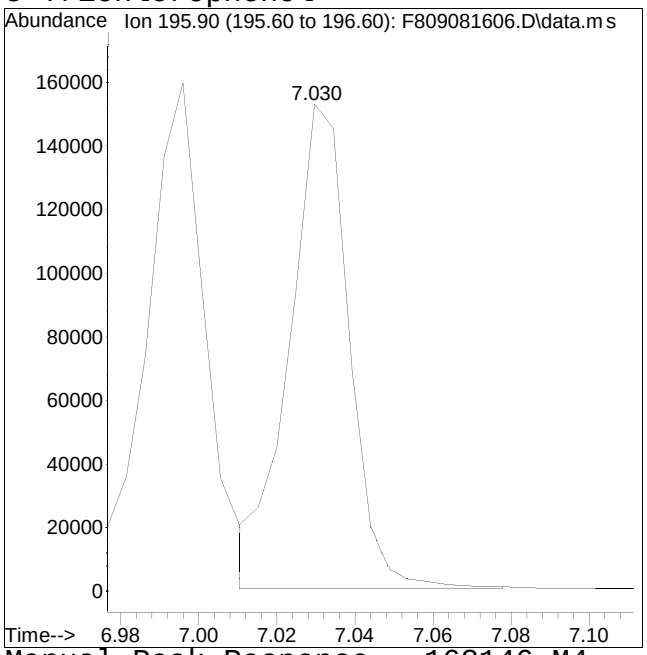
Original Peak Response = 179263 Manual Peak Response = 171590 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081606.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:16 pm Instrument : BNA8
Sample : I809081604 Quant Date : 9/9/2016 9:05 am

Compound #42: 2,4,5-Trichlorophenol



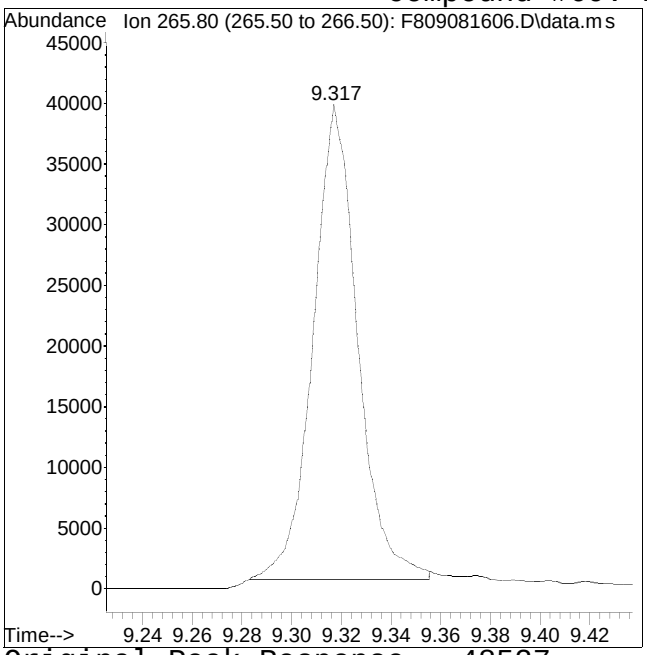


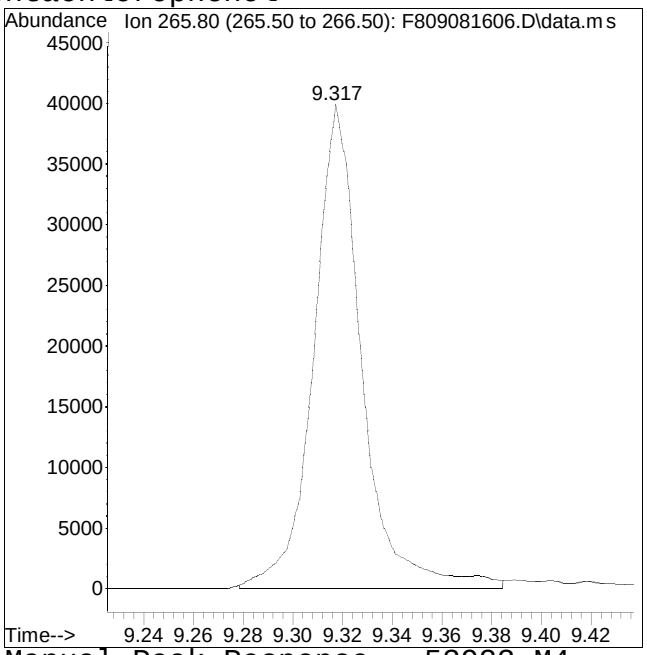
Original Peak Response = 160272 Manual Peak Response = 162146 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081606.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:16 pm Instrument : BNA8
Sample : I809081604 Quant Date : 9/9/2016 9:05 am

Compound #69: Pentachlorophenol



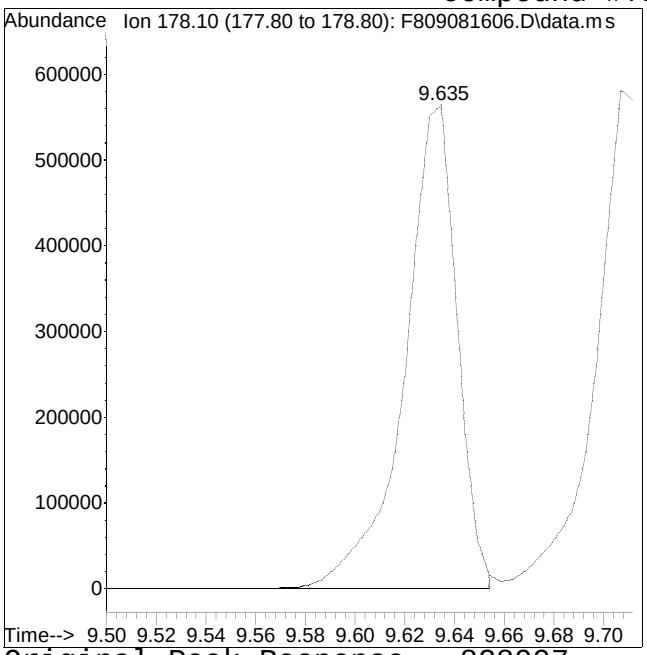


Original Peak Response = 48527 Manual Peak Response = 53923 M4
M4 = Poor automated baseline construction.

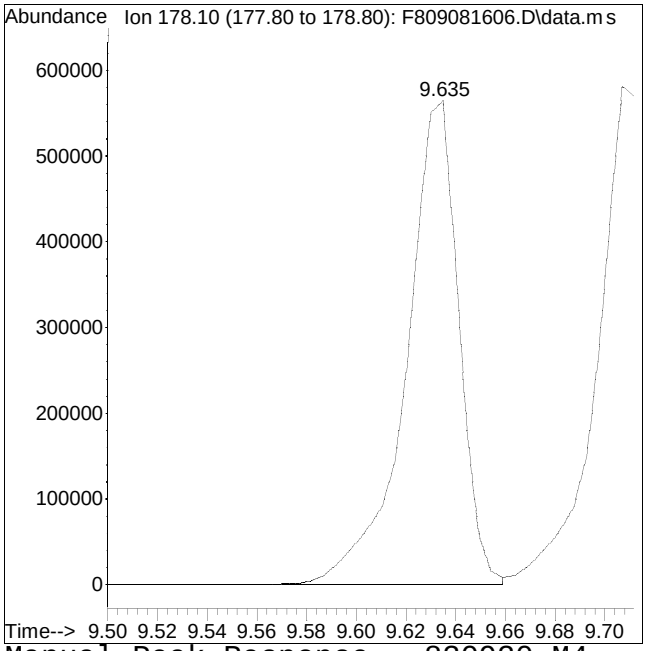
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081606.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:16 pm Instrument : BNA8
Sample : I809081604 Quant Date : 9/9/2016 9:05 am

Compound #71: Phenanthrene



Original Peak Response = 828997



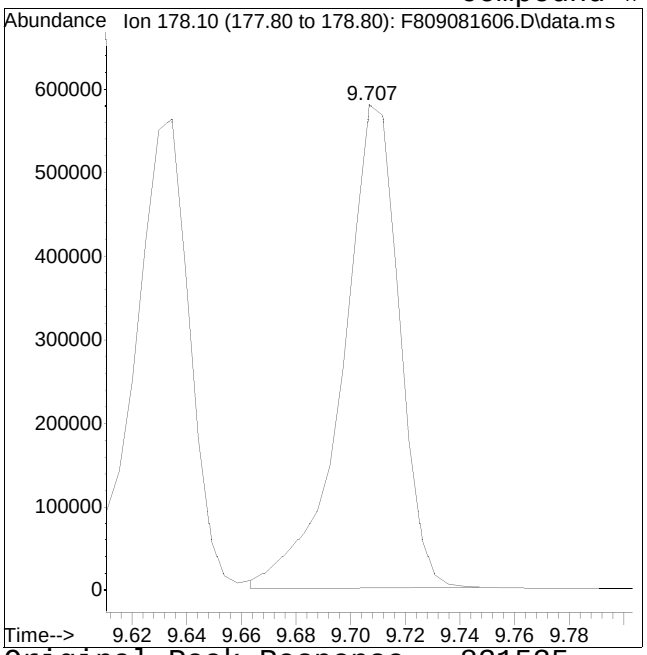
Manual Peak Response = 830930 M4

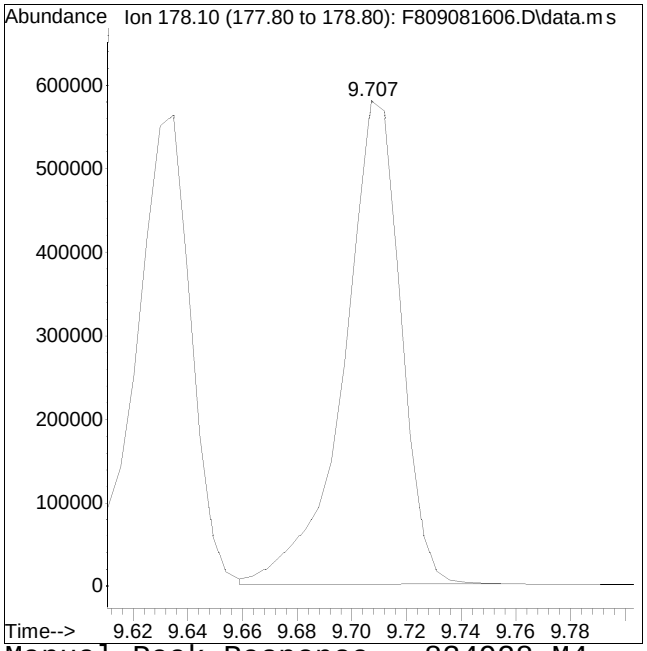
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081606.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:16 pm Instrument : BNA8
Sample : I809081604 Quant Date : 9/9/2016 9:05 am

Compound #72: Anthracene



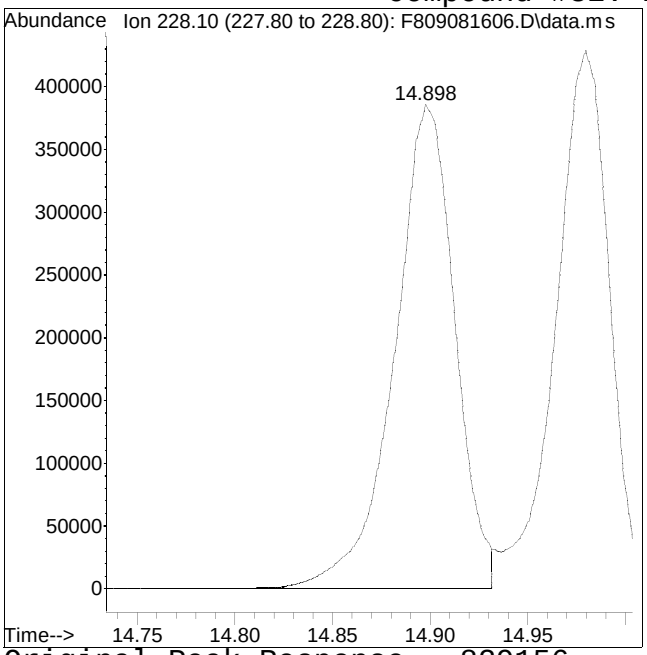


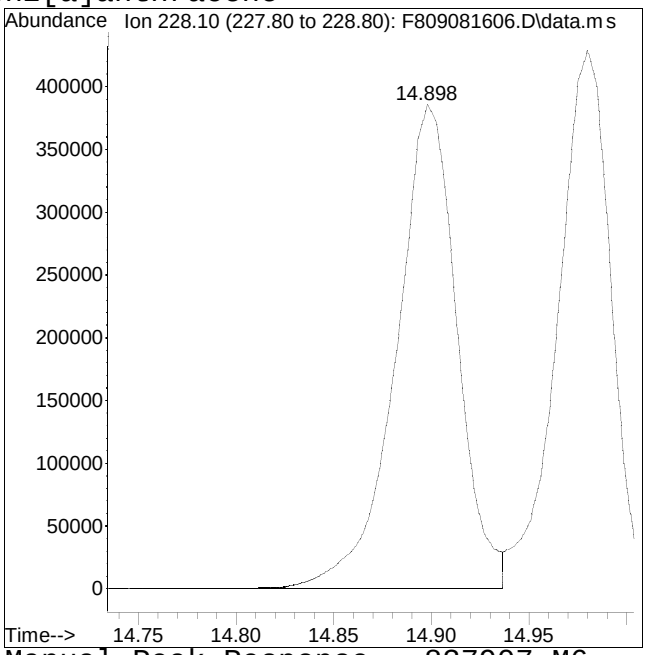
Original Peak Response = 831535 Manual Peak Response = 834928 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081606.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:16 pm Instrument : BNA8
Sample : I809081604 Quant Date : 9/9/2016 9:05 am

Compound #82: Benz[a]anthracene



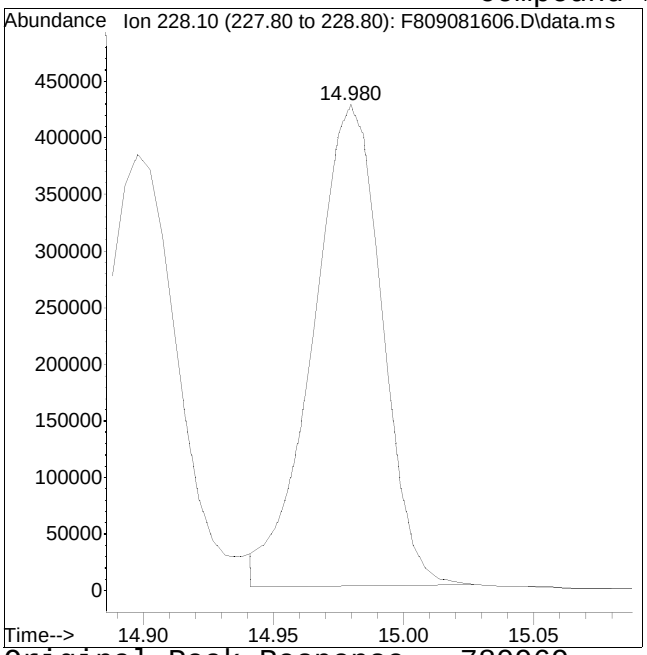


Original Peak Response = 829156 Manual Peak Response = 837907 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

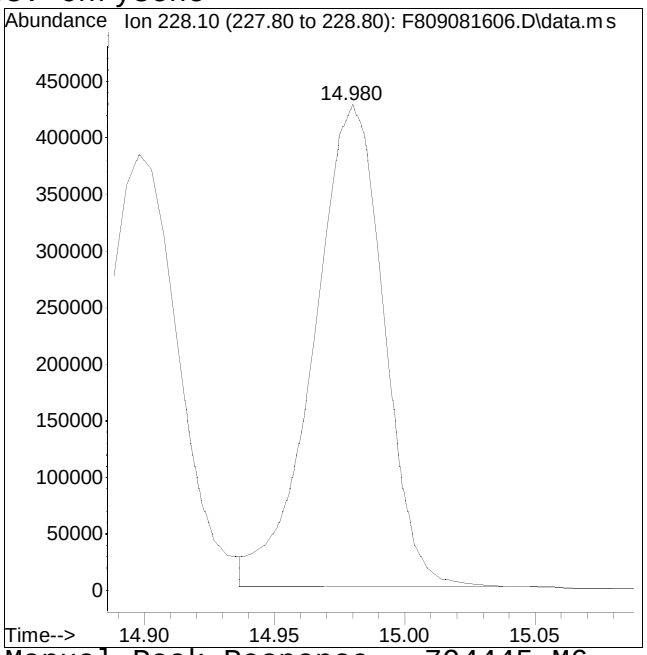
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081606.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:16 pm Instrument : BNA8
Sample : I809081604 Quant Date : 9/9/2016 9:05 am

Compound #83: Chrysene



Original Peak Response = 780969



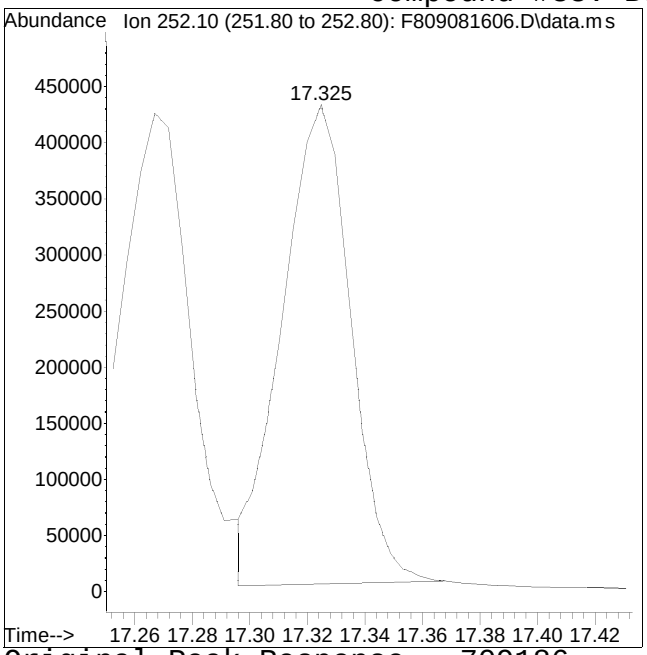
Manual Peak Response = 794445 M6

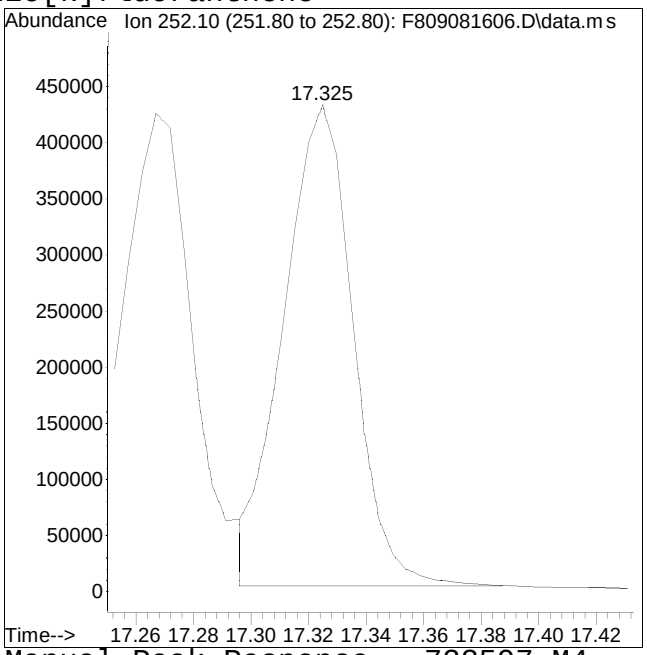
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081606.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:16 pm Instrument : BNA8
Sample : I809081604 Quant Date : 9/9/2016 9:05 am

Compound #88: Benzo[k]fluoranthene





Original Peak Response = 709186 Manual Peak Response = 722597 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081607.D
Acq On : 8 Sep 2016 9:50 pm
Operator : BNA8:ML
Sample : I809081605
Misc : WG930406,MSAK74
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 09 11:11:01 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:11:02 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	216976	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	822841	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.752	164	444773	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	735950	5.000	ug/mL	0.00
76) Chrysene-d12	14.927	240	681078	5.000	ug/mL	0.00
85) Perylene-d12	18.003	264	608268	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.832	112	523001	10.036	ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 50.18%			
8) Phenol-d5	4.550	99	637134	10.092	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 50.46%			
22) Nitrobenzene-d5	5.378	82	483298	10.066	ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 50.33%			
43) 2-Fluorobiphenyl	7.078	172	1116084	9.945	ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 49.73%			
65) 2,4,6-Tribromophenol	8.647	330	112594	10.402	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 52.01%			
79) Terphenyl-d14	12.581	244	1063895	9.986	ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 49.93%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.946	74	267914	10.281	ug/mL	96
3) Pyridine	2.965	79	500852	9.849	ug/mL	98
5) Benzaldehyde	0.000		0	N.D.	d	
6) Aniline	4.598	93	763979M4	9.989	ug/ml	
7) bis(2-Chloroethyl)ether	4.641	63	321556	9.838	ug/mL	99
9) Phenol	4.564	94	646295	9.932	ug/mL#	90
10) 2-Chlorophenol	4.699	128	589828	10.057	ug/mL	99
11) 1,3-Dichlorobenzene	4.829	146	646833	9.998	ug/mL	99
12) 1,4-Dichlorobenzene	4.891	146	638233	9.916	ug/mL	99
13) 1,2-Dichlorobenzene	5.026	146	612566	10.017	ug/mL	100
14) Benzyl alcohol	4.997	108	357218	10.246	ug/mL	99
15) bis(2-chloroisopropyl)eth	5.108	45	447465	9.917	ug/mL#	14
16) 2-Methylphenol	5.089	108	458444M4	10.065	ug/mL	
17) Acetophenone	0.000		0	N.D.	d	
18) Hexachloroethane	5.330	117	236504	10.063	ug/mL	92
19) N-Nitroso-di-n-propylamin	5.233	70	317685	9.988	ug/mL	94
20) 4-Methylphenol	5.224	108	485281	9.861	ug/mL	98
23) Nitrobenzene	5.392	77	478325	10.022	ug/mL	95

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081607.D
Acq On : 8 Sep 2016 9:50 pm
Operator : BNA8:ML
Sample : I809081605
Misc : WG930406,MSAK74
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 09 11:11:01 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:11:02 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Isophorone	5.614	82	777453	10.123	ug/mL	97
25) 2-Nitrophenol	5.686	139	321558	10.305	ug/mL#	86
26) 2,4-Dimethylphenol	5.715	107	490785	9.890	ug/mL	99
27) Benzoic acid	5.811	105	83948M4	9.350	ug/mL	
28) bis(2-Chloroethoxy)methan	5.802	93	550822	9.901	ug/mL	100
29) 2,4-Dichlorophenol	5.907	162	463409	10.208	ug/mL	99
30) 1,2,4-Trichlorobenzene	5.984	180	486577	9.872	ug/mL	99
31) Naphthalene	6.066	128	1560088	9.869	ug/mL	99
32) 2-Chloroaniline	5.652	127	800524	10.040	ug/ml	99
33) 4-Chloroaniline	6.114	127	685988M4	10.084	ug/mL	
34) Hexachlorobutadiene	6.172	225	248527	9.919	ug/mL	99
35) Caprolactam	0.000		0	N.D.	d	
36) 4-Chloro-3-methylphenol	6.572	107	441755	10.101	ug/mL	99
37) 2-Methylnaphthalene	6.726	142	1074006	10.012	ug/mL	99
39) 1,2,4,5-Tetrachlorobenzen	6.885	216	464288	10.018	ug/mL	100
40) Hexachlorocyclopentadiene	6.871	237	199165	9.633	ug/mL	95
41) 2,4,6-Trichlorophenol	6.996	196	331630M6	9.931	ug/mL	
42) 2,4,5-Trichlorophenol	7.034	196	302676	10.124	ug/mL	98
44) Biphenyl	0.000		0	N.D.	d	
45) 2-Chloronaphthalene	7.198	162	1003478	9.992	ug/mL	99
46) 2-Nitroaniline	7.304	65	230988	9.949	ug/mL	100
47) Acenaphthylene	7.607	152	1663693	10.019	ug/mL	99
48) Dimethylphthalate	7.472	163	1055905	9.774	ug/mL	100
49) 2,6-Dinitrotoluene	7.535	165	256127	10.207	ug/mL	92
50) Acenaphthene	7.785	153	993741	9.836	ug/mL	95
51) 3-Nitroaniline	7.713	138	288669	10.053	ug/mL	97
52) 2,4-Dinitrophenol	7.819	184	113252	9.605	ug/mL#	56
53) Dibenzofuran	7.968	168	1283035	9.727	ug/mL	99
54) 2,3,4,6-Tetrachlorophenol	8.103	232	211366	10.563	ug/mL	97
55) 2,4-Dinitrotoluene	7.954	165	342065	10.626	ug/mL#	87
56) 4-Nitrophenol	7.896	109	122060	11.295	ug/mL	97
57) Fluorene	8.354	166	1057678	9.734	ug/mL	100
58) 4-Chlorophenyl-phenylethe	8.349	204	469587	9.653	ug/mL	99
59) Diethylphthalate	8.219	149	1113285	10.082	ug/mL	100
60) 4-Nitroaniline	8.387	138	306685	10.340	ug/mL	96
62) 4,6-Dinitro-2-methylpheno	8.416	198	162825	9.679	ug/mL	93
63) Azobenzene	8.541	182	296602	9.934	ug/mL	95
64) n-Nitrosodiphenylamine	8.493	169	765138	9.783	ug/mL	99
66) 4-Bromophenyl-phenylether	8.960	248	270187	9.892	ug/mL	99
67) Hexachlorobenzene	9.037	284	279774	9.797	ug/mL	98
68) Atrazine	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081607.D
Acq On : 8 Sep 2016 9:50 pm
Operator : BNA8:ML
Sample : I809081605
Misc : WG930406,MSAK74
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 09 11:11:01 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:11:02 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Pentachlorophenol	9.322	266	138411	9.020	ug/mL	98
70) Pentachloronitrobenzene	9.331	237	120160	10.564	ug/ml	91
71) Phenanthrene	9.634	178	1564562M6	9.825	ug/mL	
72) Anthracene	9.716	178	1567511M4	9.933	ug/mL	
73) Carbazole	9.981	167	1541481	10.156	ug/mL	99
74) Di-n-butylphthalate	10.598	149	1876042	10.218	ug/mL	99
75) Fluoranthene	11.734	202	1682816	10.173	ug/mL	96
77) Benzidine	0.000		0	N.D.		
78) Pyrene	12.182	202	1697073	9.983	ug/mL	97
80) Butylbenzylphthalate	13.771	149	884289	10.602	ug/mL	96
81) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
82) Benz[a]anthracene	14.907	228	1619999M6	10.072	ug/mL	
83) Chrysene	14.989	228	1494262M6	9.987	ug/mL	
84) bis(2-Ethylhexyl)phthalat	15.235	149	1182136	10.772	ug/mL	99
86) Di-n-octylphthalate	16.732	149	2104805	10.893	ug/mL	99
87) Benzo[b]fluoranthene	17.276	252	1515630M6	10.205	ug/mL	
88) Benzo[k]fluoranthene	17.334	252	1449258M6	10.675	ug/mL	
89) Benzo[a]pyrene	17.902	252	1446489	10.338	ug/mL	99
90) Indeno[1,2,3-cd]pyrene	19.828	276	1258016	10.340	ug/mL	99
91) Dibenz[a,h]anthracene	19.877	278	1324750	10.806	ug/mL	97
92) Benzo[g,h,i]perylene	20.276	276	1372901	10.433	ug/mL	96

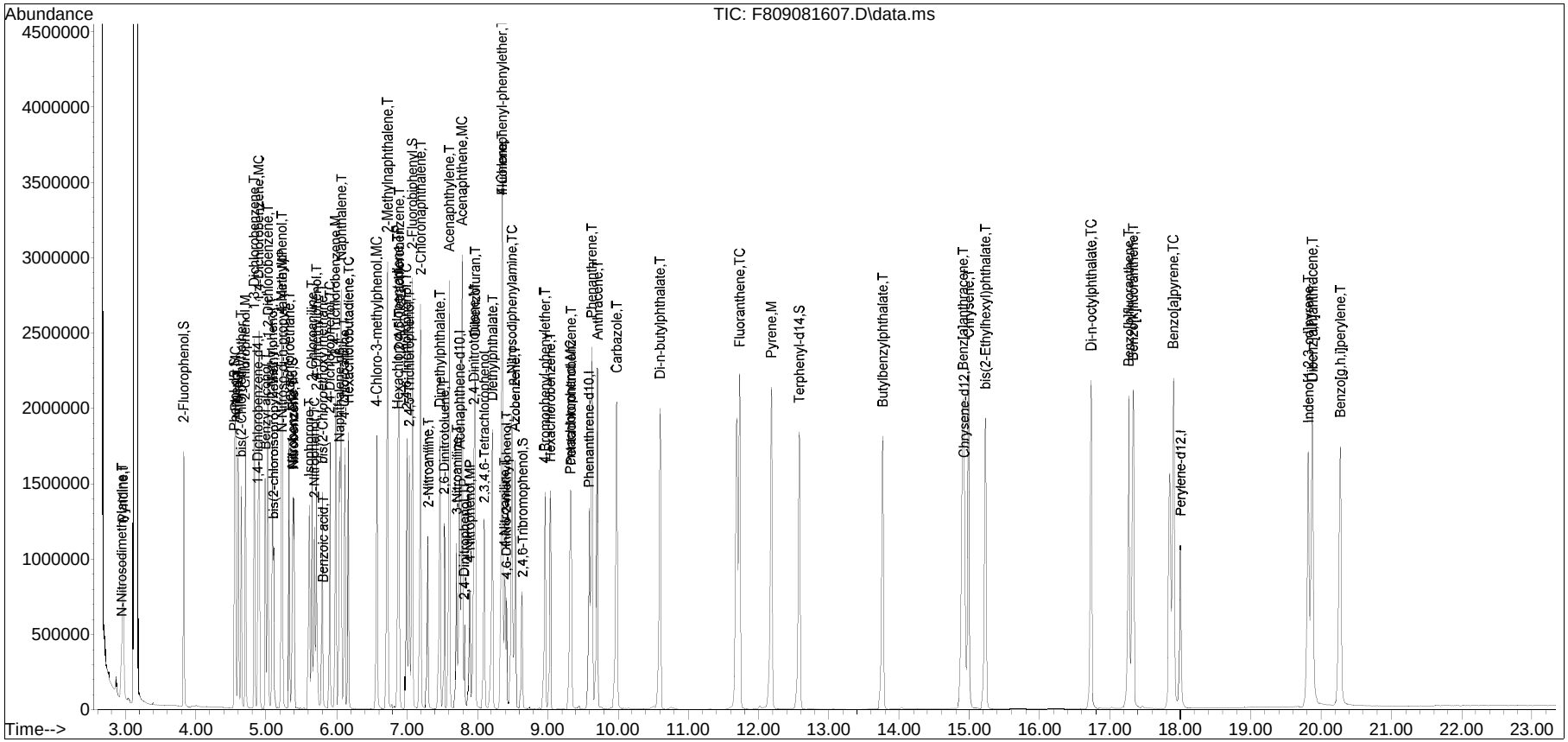
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081607.D
Acq On : 8 Sep 2016 9:50 pm
Operator : BNA8:ML
Sample : I809081605
Misc : WG930406,MSAK74
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 09 11:11:01 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:11:02 2016
Response via : Initial Calibration

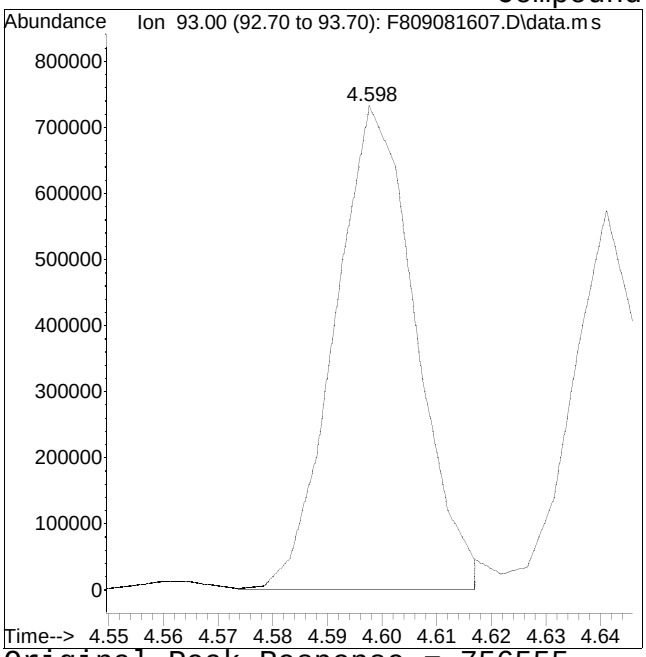
Sub List : Default - All compounds listed

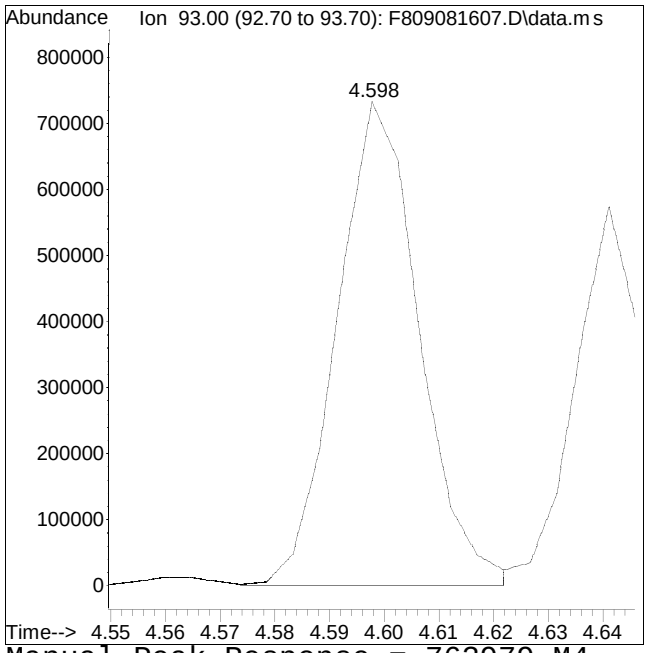


Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081607.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:50 pm Instrument : BNA8
Sample : I809081605 Quant Date : 9/9/2016 11:11 am

Compound #6: Aniline



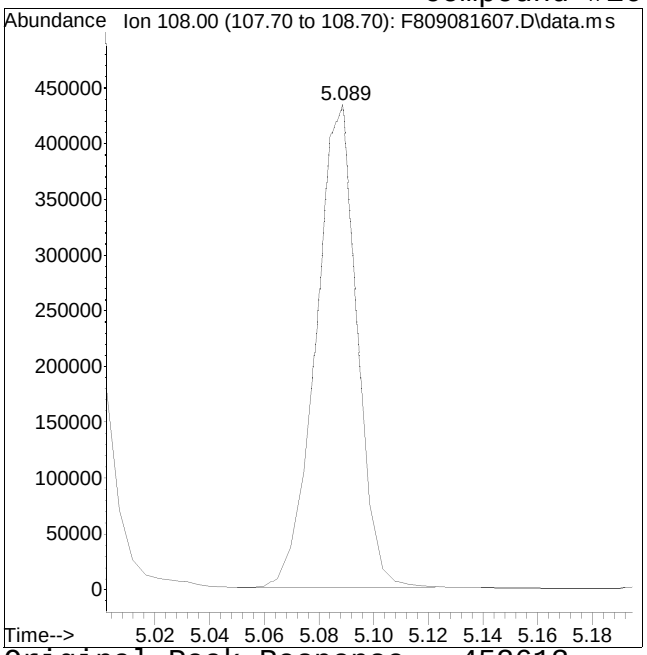


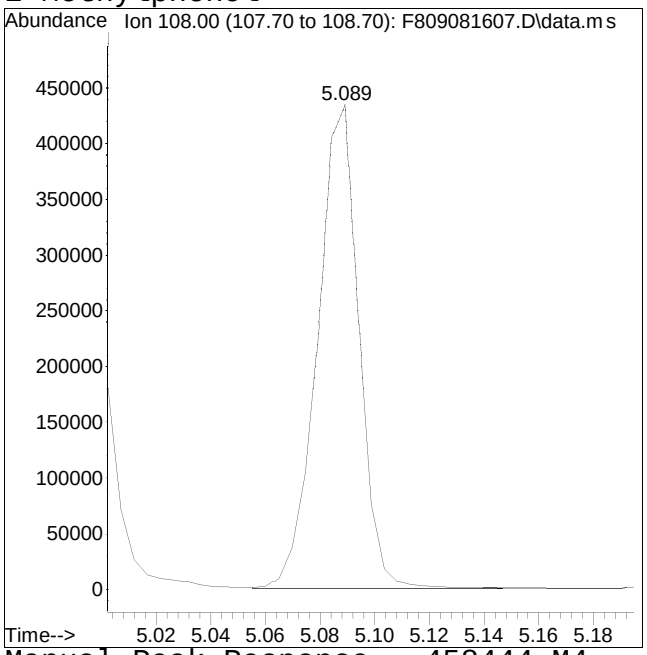
Original Peak Response = 756555 Manual Peak Response = 763979 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081607.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:50 pm Instrument : BNA8
Sample : I809081605 Quant Date : 9/9/2016 11:11 am

Compound #16: 2-Methylphenol



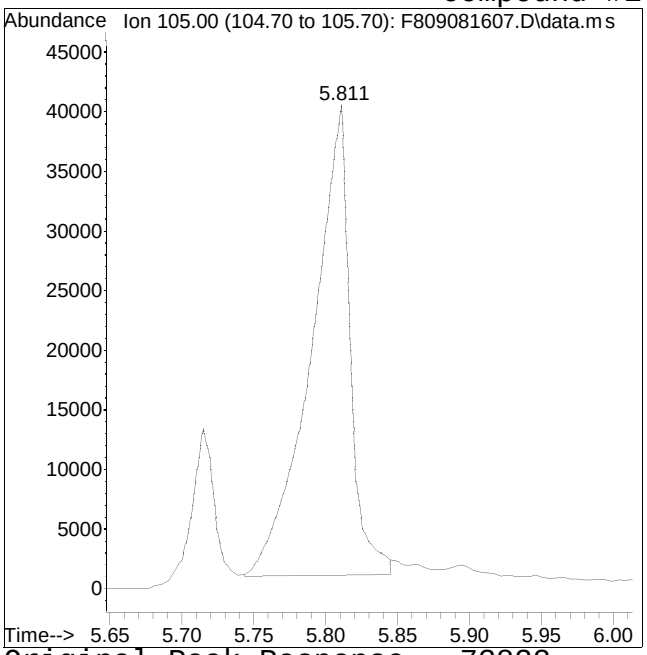


Original Peak Response = 452613 Manual Peak Response = 458444 M4
M4 = Poor automated baseline construction.

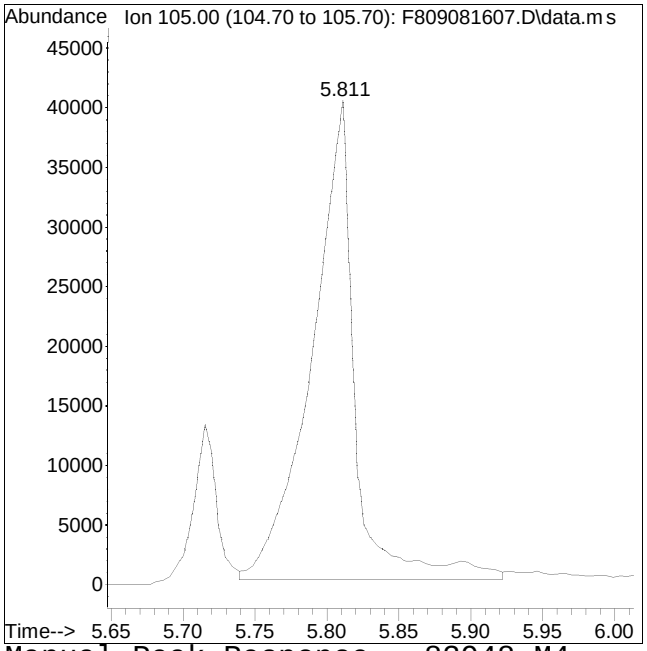
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081607.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:50 pm Instrument : BNA8
Sample : I809081605 Quant Date : 9/9/2016 11:11 am

Compound #27: Benzoic acid



Original Peak Response = 73832



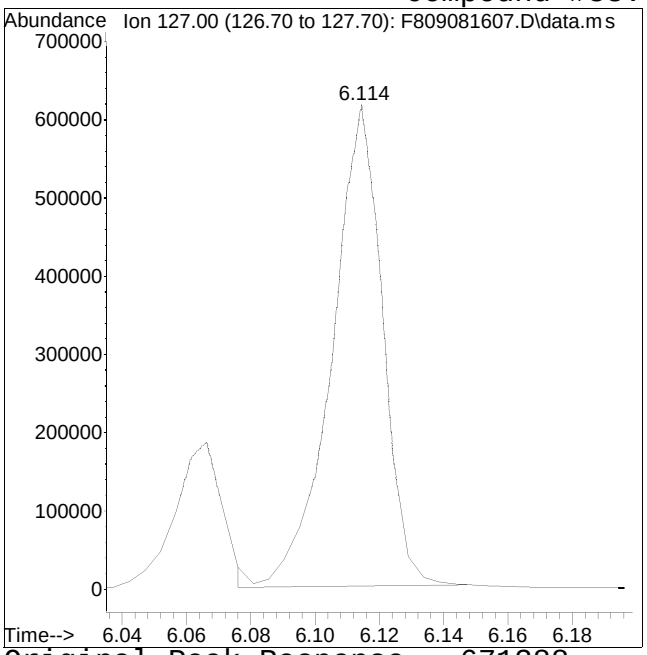
Manual Peak Response = 83948 M4

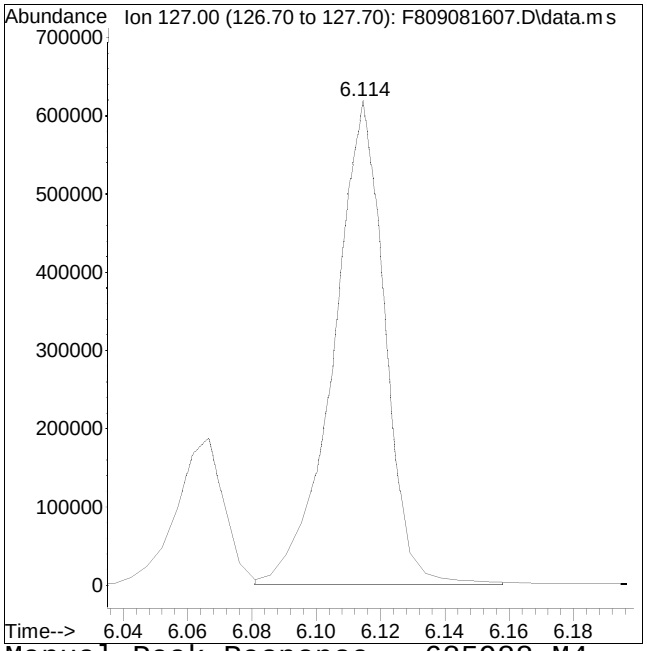
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081607.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:50 pm Instrument : BNA8
Sample : I809081605 Quant Date : 9/9/2016 11:11 am

Compound #33: 4-Chloroaniline



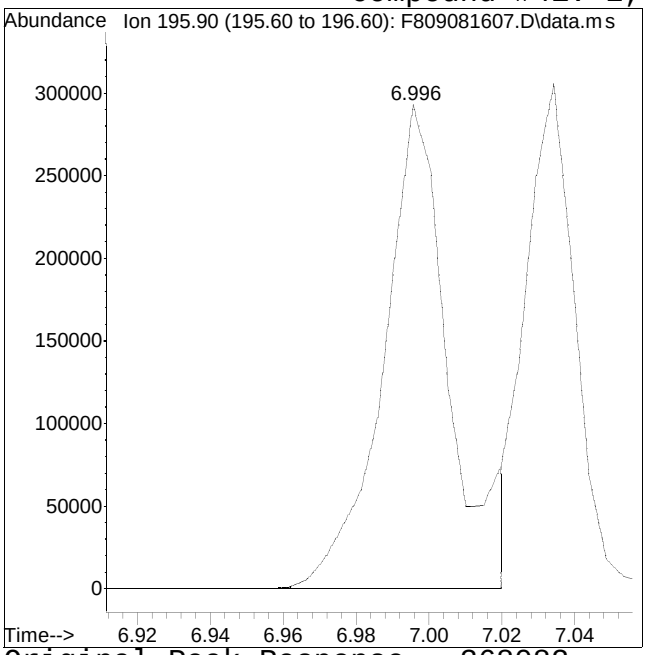


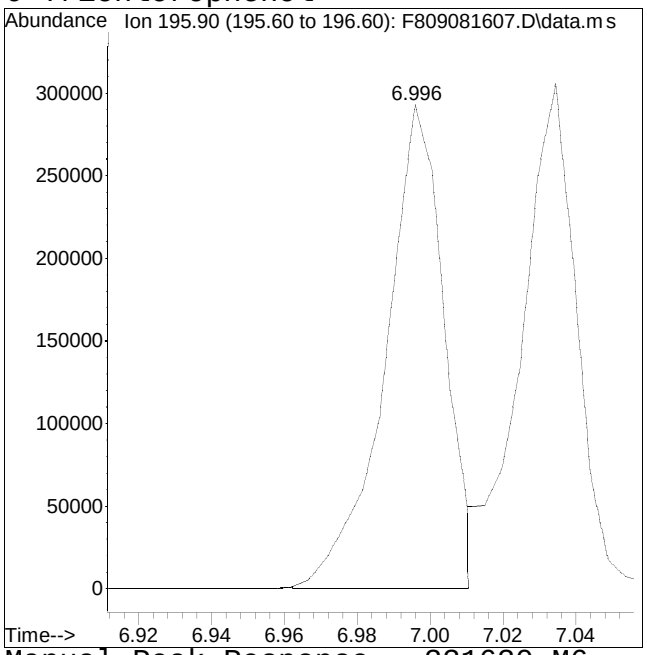
Original Peak Response = 671388 Manual Peak Response = 685988 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081607.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:50 pm Instrument : BNA8
Sample : I809081605 Quant Date : 9/9/2016 11:11 am

Compound #41: 2,4,6-Trichlorophenol



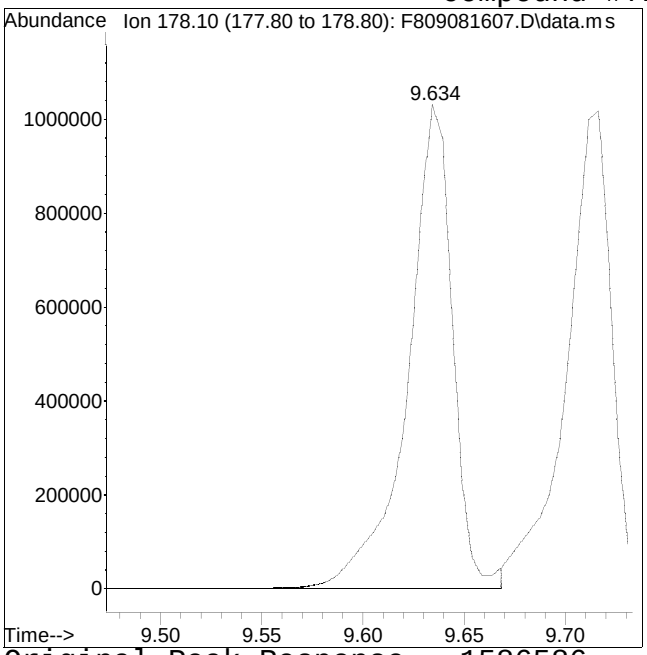


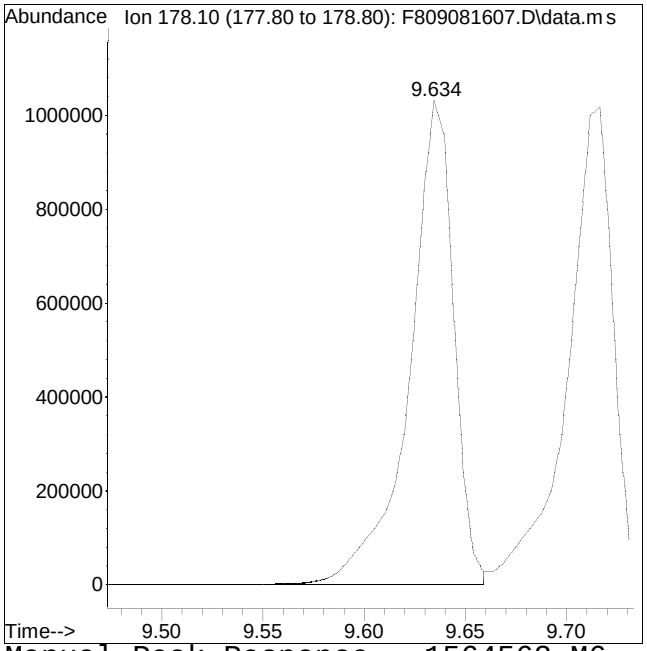
Original Peak Response = 368082 Manual Peak Response = 331630 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081607.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:50 pm Instrument : BNA8
Sample : I809081605 Quant Date : 9/9/2016 11:11 am

Compound #71: Phenanthrene



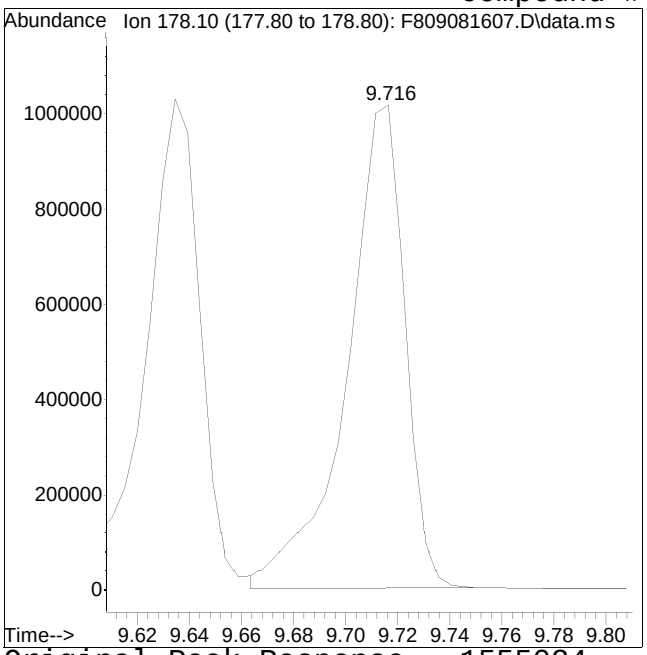


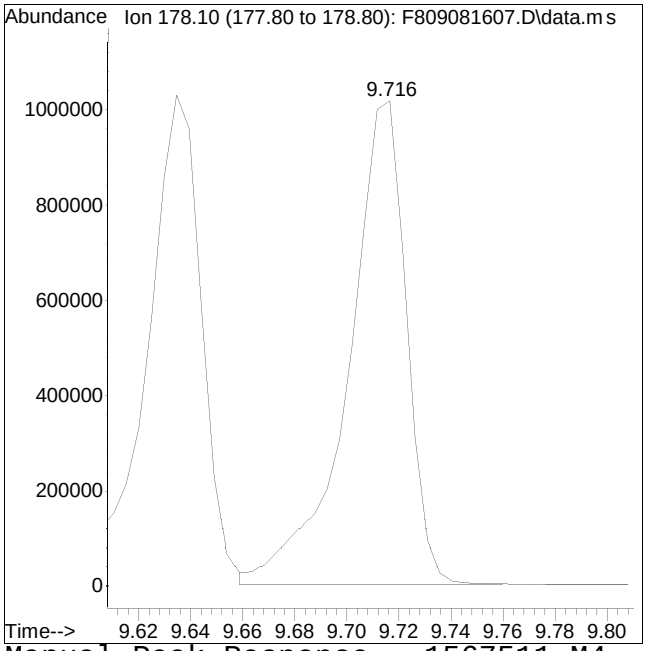
Original Peak Response = 1586586 Manual Peak Response = 1564562 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081607.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:50 pm Instrument : BNA8
Sample : I809081605 Quant Date : 9/9/2016 11:11 am

Compound #72: Anthracene



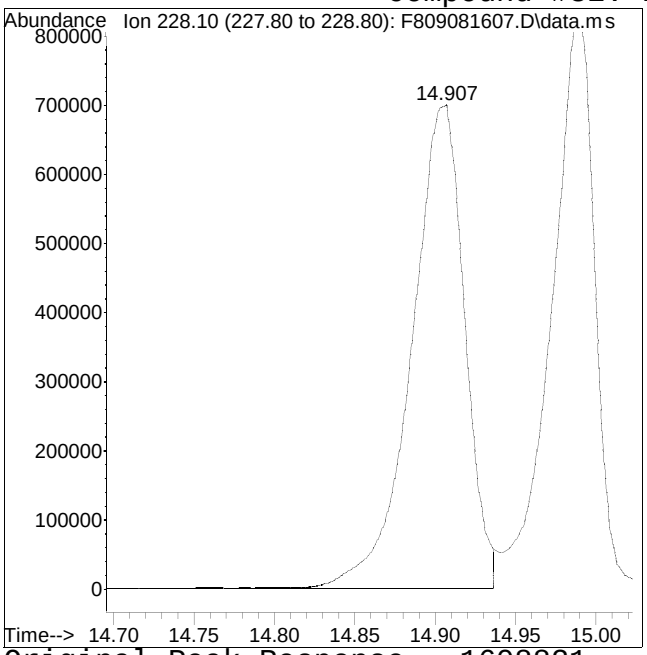


Original Peak Response = 1555024 Manual Peak Response = 1567511 M4
M4 = Poor automated baseline construction.

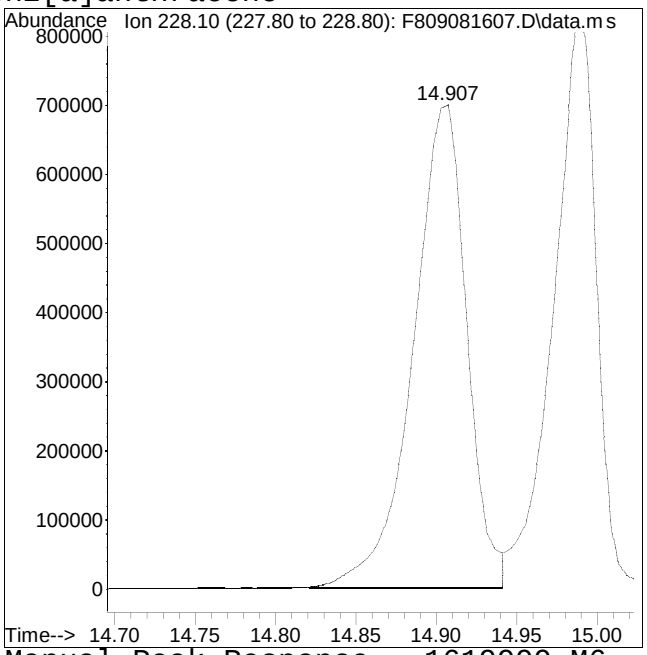
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081607.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:50 pm Instrument : BNA8
Sample : I809081605 Quant Date : 9/9/2016 11:11 am

Compound #82: Benz[a]anthracene



Original Peak Response = 1608821



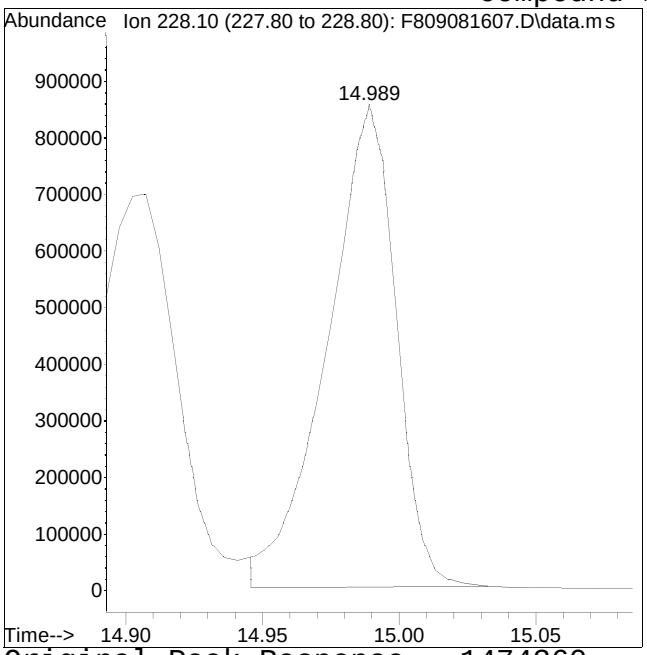
Manual Peak Response = 1619999 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

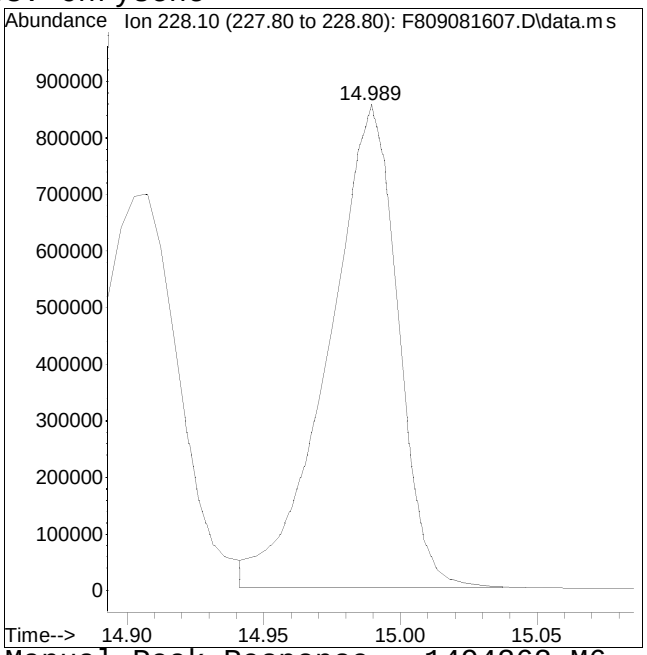
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081607.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:50 pm Instrument : BNA8
Sample : I809081605 Quant Date : 9/9/2016 11:11 am

Compound #83: Chrysene



Original Peak Response = 1474360



Manual Peak Response = 1494262 M6

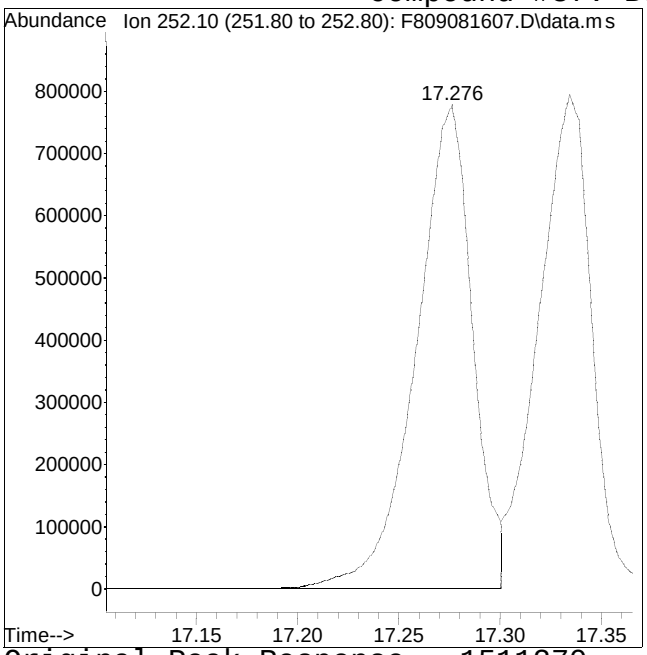
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

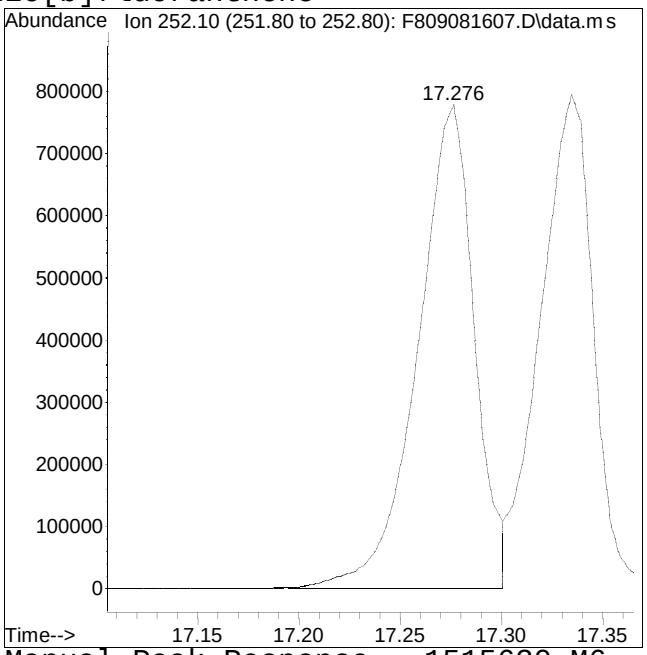
Data Path : O:\Organics\DATA\BNA8\2016\
Data File : F809081607.D
Date Inj'd : 9/8/2016 9:50 pm
Sample : I809081605

QMethod : SV0908BNA8.M
Operator : BNA8:ML
Instrument : BNA8
Quant Date : 9/9/2016 11:11 am

Compound #87: Benzo[b]fluoranthene



Original Peak Response = 1511270



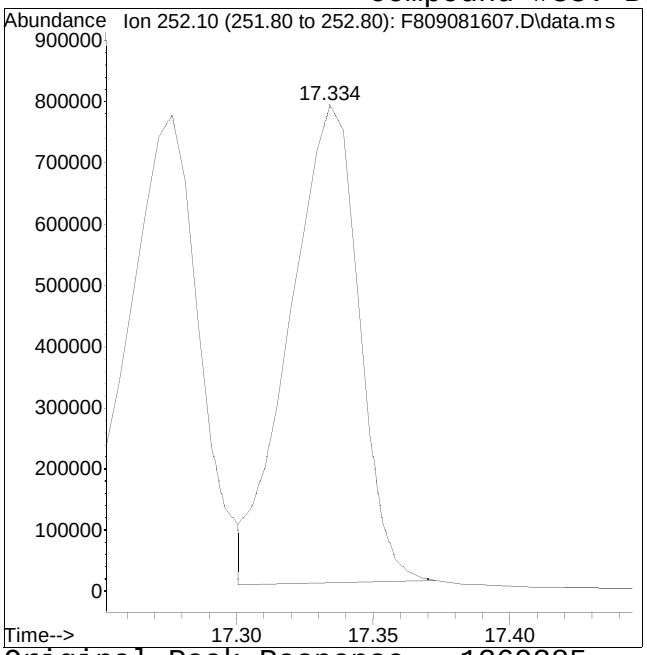
Manual Peak Response = 1515630 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

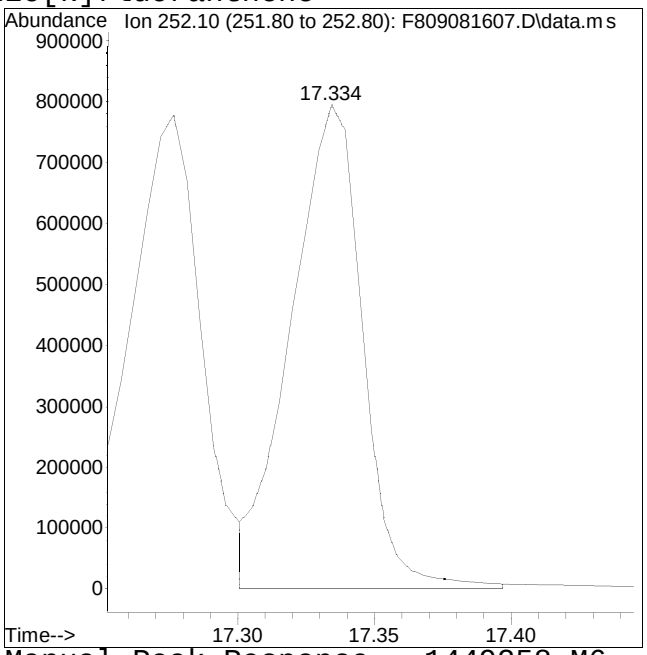
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081607.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 9:50 pm Instrument : BNA8
Sample : I809081605 Quant Date : 9/9/2016 11:11 am

Compound #88: Benzo[k]fluoranthene



Original Peak Response = 1369385



Manual Peak Response = 1449258 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081608.D
Acq On : 8 Sep 2016 10:23 pm
Operator : BNA8:ML
Sample : I809081606
Misc : WG930406,MSAK75
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 09 11:04:36 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	201828	5.000	ug/mL	0.00
21) Naphthalene-d8	6.047	136	757632	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.752	164	416530	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.601	188	696117	5.000	ug/mL	0.00
76) Chrysene-d12	14.931	240	644592	5.000	ug/mL	0.01
85) Perylene-d12	18.004	264	596709M4	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.832	112	729351	14.889	ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 74.44%			
8) Phenol-d5	4.555	99	881635	14.778	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 73.89%			
22) Nitrobenzene-d5	5.378	82	669187	14.295	ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 71.47%			
43) 2-Fluorobiphenyl	7.078	172	1545907	14.647	ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 73.23%			
65) 2,4,6-Tribromophenol	8.648	330	164497	14.457	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 72.28%			
79) Terphenyl-d14	12.586	244	1518028	14.683	ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 73.41%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.961	74	365408	14.062	ug/mL	96
3) Pyridine	2.965	79	683580	13.661	ug/mL	96
5) Benzaldehyde	0.000		0	N.D.	d	
6) Aniline	4.603	93	1056615M4	20.256	ug/ml	
7) bis(2-Chloroethyl)ether	4.646	63	440734	13.510	ug/mL	94
9) Phenol	4.564	94	889661	14.128	ug/mL#	89
10) 2-Chlorophenol	4.704	128	821281	14.780	ug/mL	100
11) 1,3-Dichlorobenzene	4.829	146	897680	14.557	ug/mL	100
12) 1,4-Dichlorobenzene	4.896	146	886191	14.422	ug/mL	99
13) 1,2-Dichlorobenzene	5.031	146	846843	14.473	ug/mL	99
14) Benzyl alcohol	4.998	108	493119	14.645	ug/mL	98
15) bis(2-chloroisopropyl)eth	5.108	45	596392	12.445	ug/mL#	9
16) 2-Methylphenol	5.089	108	624762M4	14.444	ug/mL	
17) Acetophenone	0.000		0	N.D.	d	
18) Hexachloroethane	5.330	117	329166	14.404	ug/mL	91
19) N-Nitroso-di-n-propylamin	5.238	70	439316	13.878	ug/mL	93
20) 4-Methylphenol	5.229	108	662909	14.204	ug/mL	97
23) Nitrobenzene	5.397	77	658605	14.228	ug/mL	95

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081608.D
Acq On : 8 Sep 2016 10:23 pm
Operator : BNA8:ML
Sample : I809081606
Misc : WG930406,MSAK75
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 09 11:04:36 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
24) Isophorone	5.619	82	1085892	14.544 ug/mL	96
25) 2-Nitrophenol	5.686	139	452907	15.280 ug/mL#	89
26) 2,4-Dimethylphenol	5.720	107	676254	18.468 ug/mL	99
27) Benzoic acid	5.826	105	204047M4	7.718 ug/mL	
28) bis(2-Chloroethoxy)methan	5.806	93	769209	14.465 ug/mL	100
29) 2,4-Dichlorophenol	5.912	162	649108	15.449 ug/mL	99
30) 1,2,4-Trichlorobenzene	5.989	180	680280	14.848 ug/mL	99
31) Naphthalene	6.067	128	2142000	14.380 ug/mL	100
32) 2-Chloroaniline	5.652	127	1107395	14.808 ug/ml	99
33) 4-Chloroaniline	6.115	127	937105M4	15.536 ug/mL	
34) Hexachlorobutadiene	6.172	225	350153	15.064 ug/mL	99
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	6.577	107	621454	15.028 ug/mL	99
37) 2-Methylnaphthalene	6.726	142	1489095	14.823 ug/mL	99
39) 1,2,4,5-Tetrachlorobenzen	6.885	216	649241	14.819 ug/mL	99
40) Hexachlorocyclopentadiene	6.871	237	297526	14.181 ug/mL	96
41) 2,4,6-Trichlorophenol	7.001	196	499282M6	15.706 ug/mL	
42) 2,4,5-Trichlorophenol	7.034	196	425603M4	14.092 ug/mL	
44) Biphenyl	0.000		0	N.D. d	
45) 2-Chloronaphthalene	7.198	162	1394319	14.687 ug/mL	99
46) 2-Nitroaniline	7.304	65	337323	14.435 ug/mL	100
47) Acenaphthylene	7.607	152	2313471	14.868 ug/mL	99
48) Dimethylphthalate	7.477	163	1524382	14.914 ug/mL	100
49) 2,6-Dinitrotoluene	7.540	165	372448	15.274 ug/mL	92
50) Acenaphthene	7.786	153	1388552	14.752 ug/mL	98
51) 3-Nitroaniline	7.718	138	419763	15.275 ug/mL	98
52) 2,4-Dinitrophenol	7.819	184	197970	11.817 ug/mL#	76
53) Dibenzofuran	7.973	168	1824099	14.606 ug/mL	99
54) 2,3,4,6-Tetrachlorophenol	8.103	232	322801	15.106 ug/mL	96
55) 2,4-Dinitrotoluene	7.959	165	489771	15.585 ug/mL	90
56) 4-Nitrophenol	7.896	109	176715	15.399 ug/mL	96
57) Fluorene	8.359	166	1504725	14.947 ug/mL	100
58) 4-Chlorophenyl-phenylethe	8.349	204	671232	14.887 ug/mL	98
59) Diethylphthalate	8.224	149	1583282	15.128 ug/mL	100
60) 4-Nitroaniline	8.397	138	431198	15.194 ug/mL	96
62) 4,6-Dinitro-2-methylpheno	8.421	198	252619	12.798 ug/mL#	91
63) Azobenzene	8.546	182	424797	14.485 ug/mL	92
64) n-Nitrosodiphenylamine	8.498	169	1074334	13.897 ug/mL	99
66) 4-Bromophenyl-phenylether	8.965	248	391835	14.813 ug/mL	99
67) Hexachlorobenzene	9.042	284	403426	14.588 ug/mL	98
68) Atrazine	0.000		0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081608.D
Acq On : 8 Sep 2016 10:23 pm
Operator : BNA8:ML
Sample : I809081606
Misc : WG930406,MSAK75
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 09 11:04:36 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
69) Pentachlorophenol	9.322	266	228289	12.105 ug/mL	97
70) Pentachloronitrobenzene	9.336	237	175870	15.358 ug/ml	90
71) Phenanthrene	9.639	178	2254726M6	14.832 ug/mL	
72) Anthracene	9.717	178	2230400M4	14.794 ug/mL	
73) Carbazole	9.981	167	2073721	13.858 ug/mL	100
74) Di-n-butylphthalate	10.603	149	2655557	14.380 ug/mL	100
75) Fluoranthene	11.739	202	2289172	14.204 ug/mL	97
77) Benzidine	0.000		0	N.D.	
78) Pyrene	12.187	202	2448835M4	14.992 ug/mL	
80) Butylbenzylphthalate	13.776	149	1260912	14.865 ug/mL	95
81) 3,3'-Dichlorobenzidine	0.000		0	N.D.	
82) Benz[a]anthracene	14.912	228	2365541M6	15.673 ug/mL	
83) Chrysene	14.999	228	2080950M6	14.039 ug/mL	
84) bis(2-Ethylhexyl)phthalat	15.235	149	1689076	15.178 ug/mL	99
86) Di-n-octylphthalate	16.737	149	3031775	15.373 ug/mL	99
87) Benzo[b]fluoranthene	17.286	252	2277040M4	16.053 ug/mL	
88) Benzo[k]fluoranthene	17.344	252	1933872M6	14.065 ug/mL	
89) Benzo[a]pyrene	17.912	252	2093266	15.660 ug/mL	98
90) Indeno[1,2,3-cd]pyrene	19.838	276	1910806	15.938 ug/mL	98
91) Dibenz[a,h]anthracene	19.891	278	1940989	16.149 ug/mL	95
92) Benzo[g,h,i]perylene	20.291	276	1943739	15.152 ug/mL	98

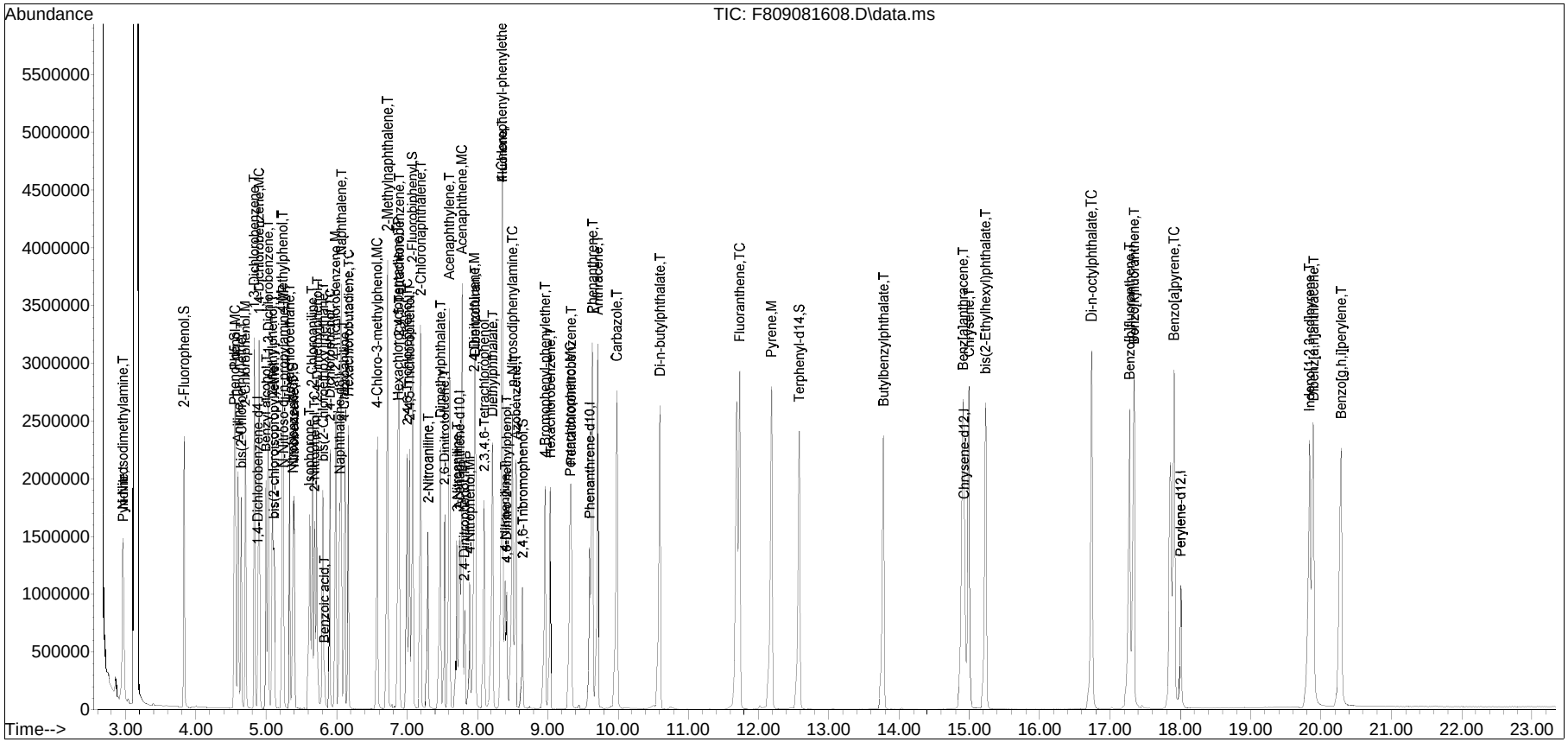
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081608.D
Acq On : 8 Sep 2016 10:23 pm
Operator : BNA8:ML
Sample : I809081606
Misc : WG930406,MSAK75
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 09 11:04:36 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

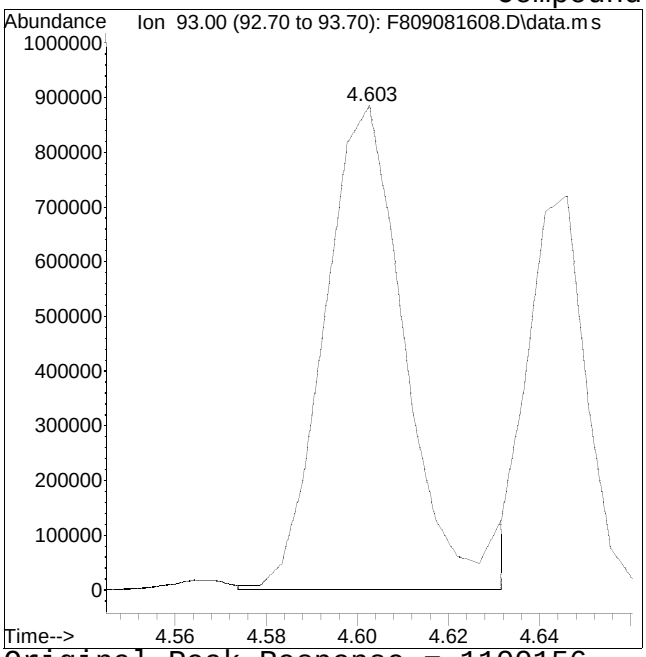
Sub List : Default - All compounds listed

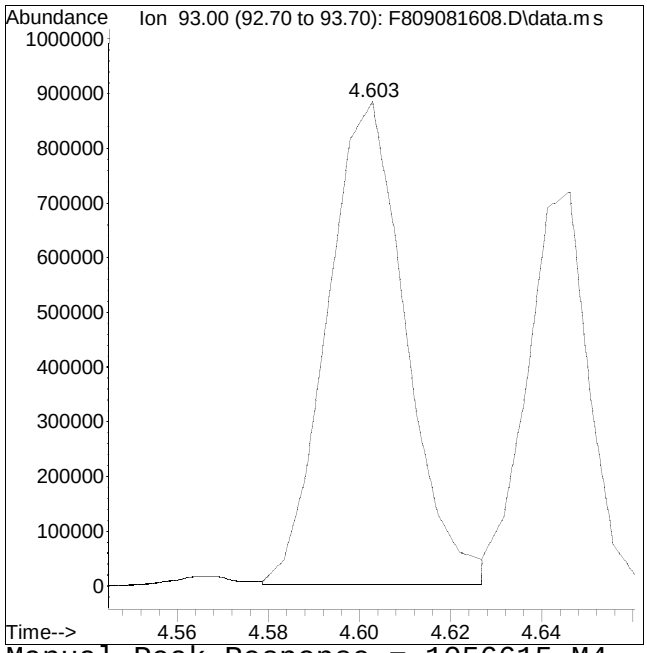


Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081608.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:23 pm Instrument : BNA8
Sample : I809081606 Quant Date : 9/9/2016 7:48 am

Compound #6: Aniline



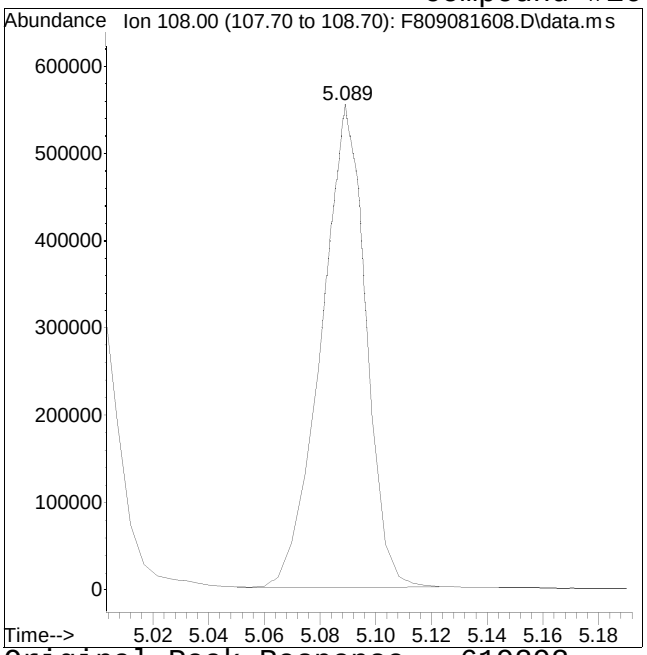


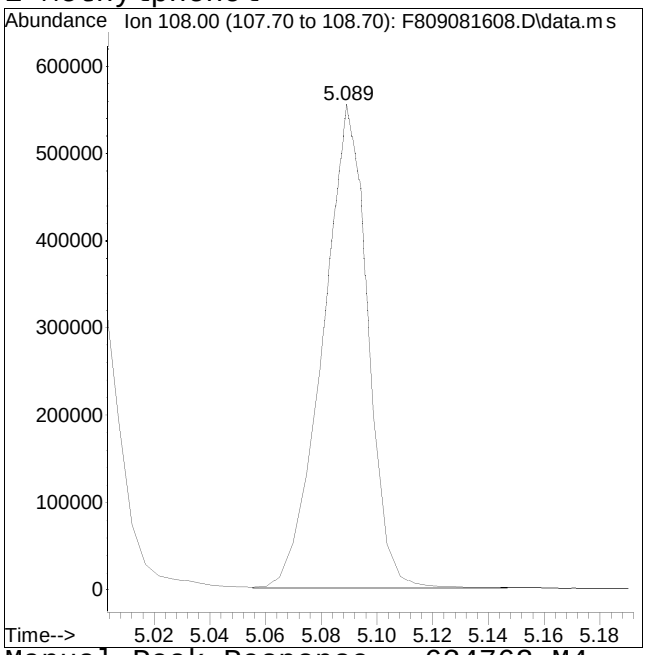
Original Peak Response = 1100156 Manual Peak Response = 1056615 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081608.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:23 pm Instrument : BNA8
Sample : I809081606 Quant Date : 9/9/2016 7:48 am

Compound #16: 2-Methylphenol



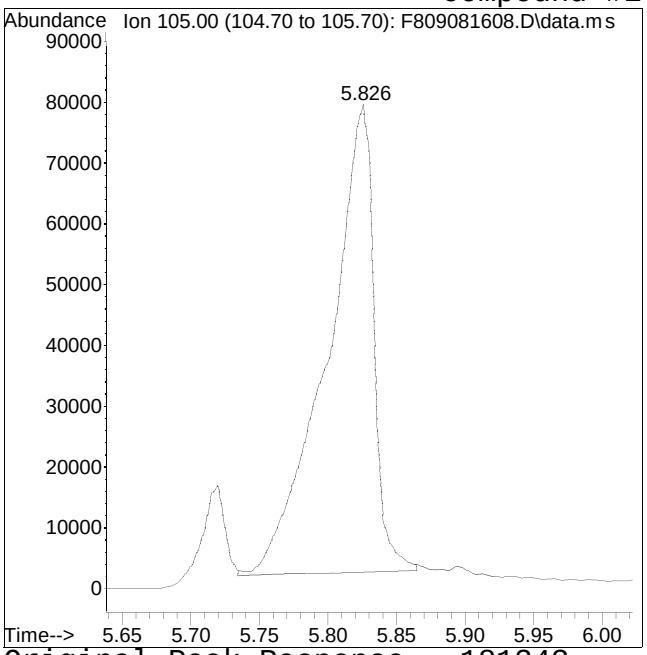


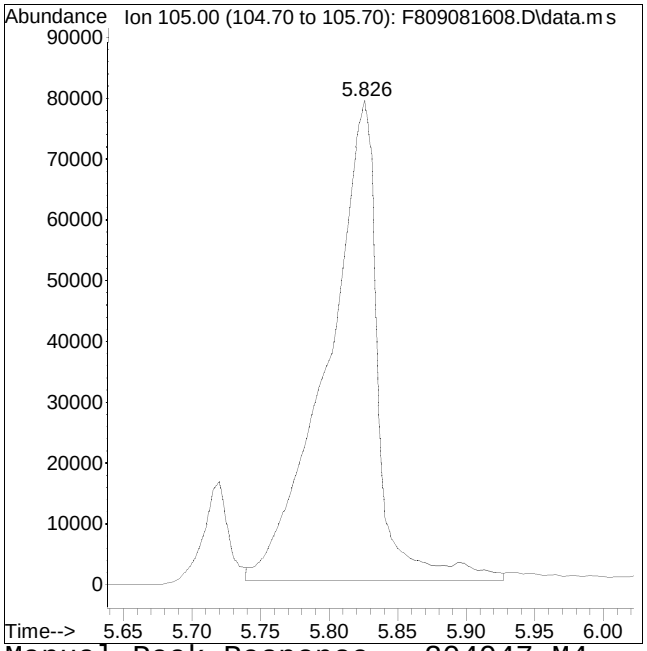
Original Peak Response = 619292 Manual Peak Response = 624762 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081608.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:23 pm Instrument : BNA8
Sample : I809081606 Quant Date : 9/9/2016 7:48 am

Compound #27: Benzoic acid



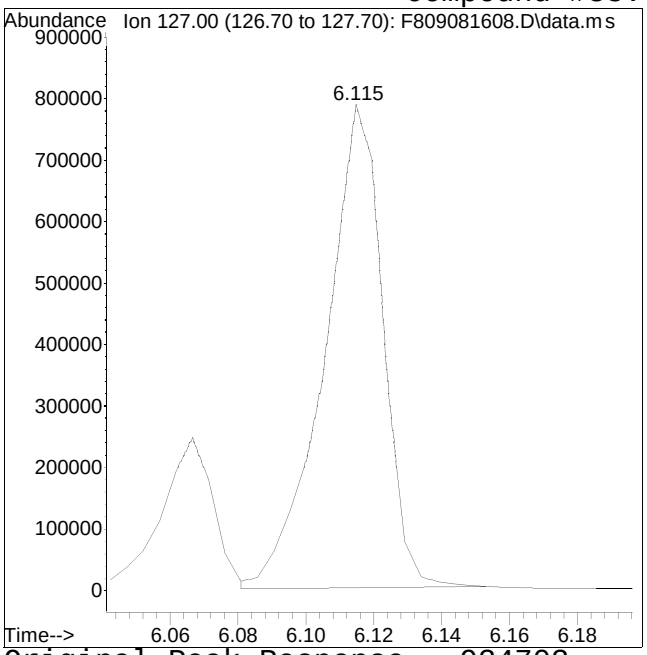


Original Peak Response = 181343 Manual Peak Response = 204047 M4
M4 = Poor automated baseline construction.

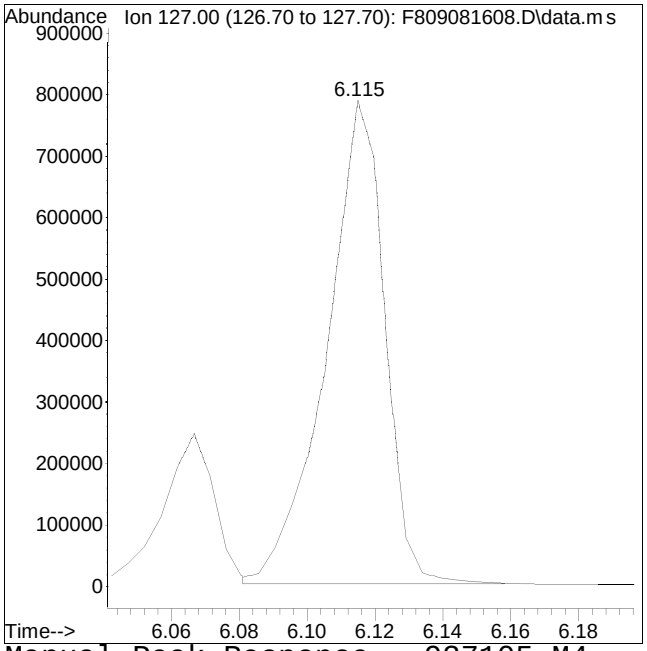
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081608.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:23 pm Instrument : BNA8
Sample : I809081606 Quant Date : 9/9/2016 7:48 am

Compound #33: 4-Chloroaniline



Original Peak Response = 934703



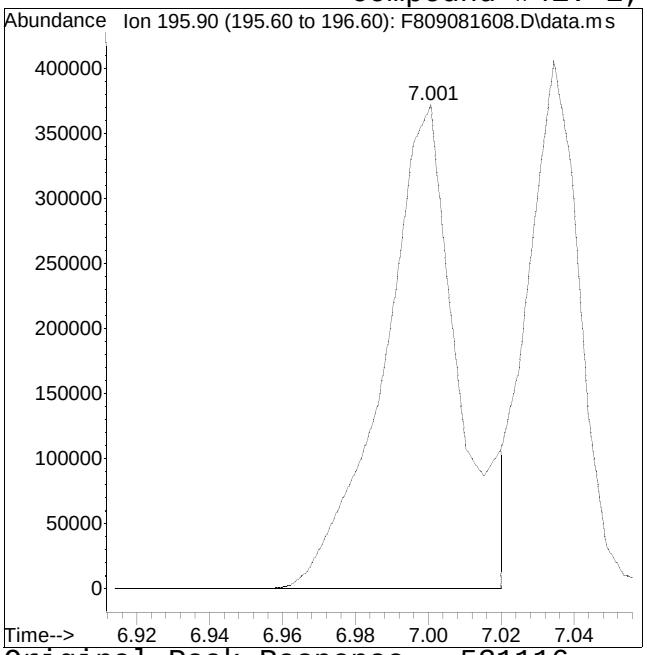
Manual Peak Response = 937105 M4

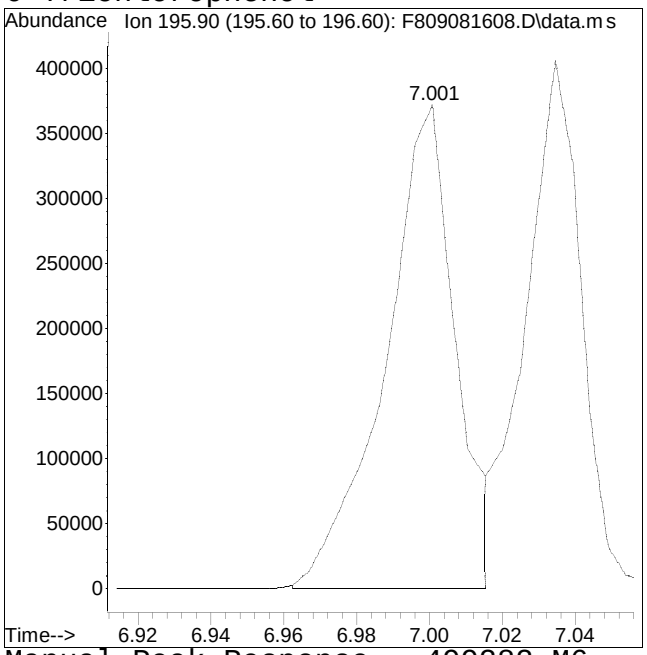
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081608.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:23 pm Instrument : BNA8
Sample : I809081606 Quant Date : 9/9/2016 7:48 am

Compound #41: 2,4,6-Trichlorophenol



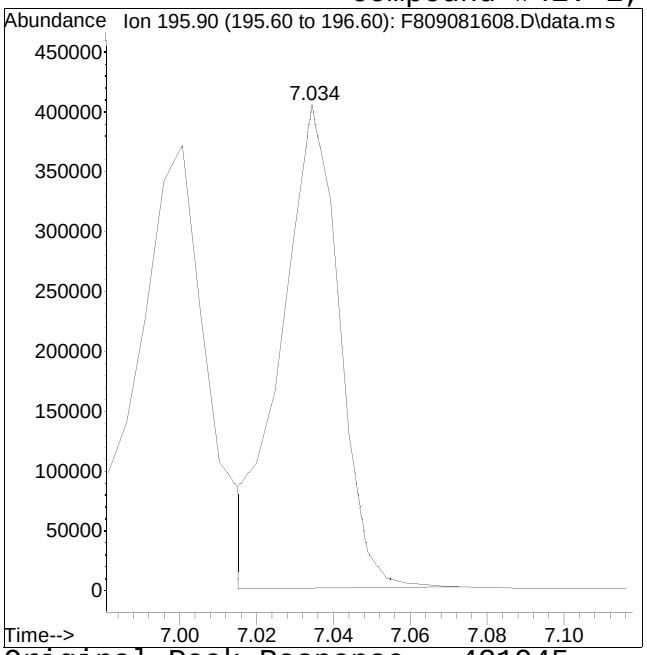


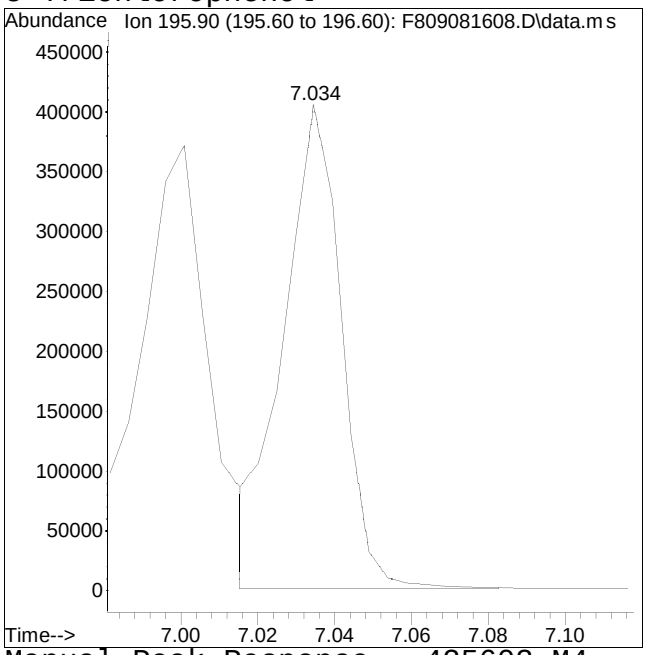
Original Peak Response = 531116 Manual Peak Response = 499282 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081608.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:23 pm Instrument : BNA8
Sample : I809081606 Quant Date : 9/9/2016 7:48 am

Compound #42: 2,4,5-Trichlorophenol



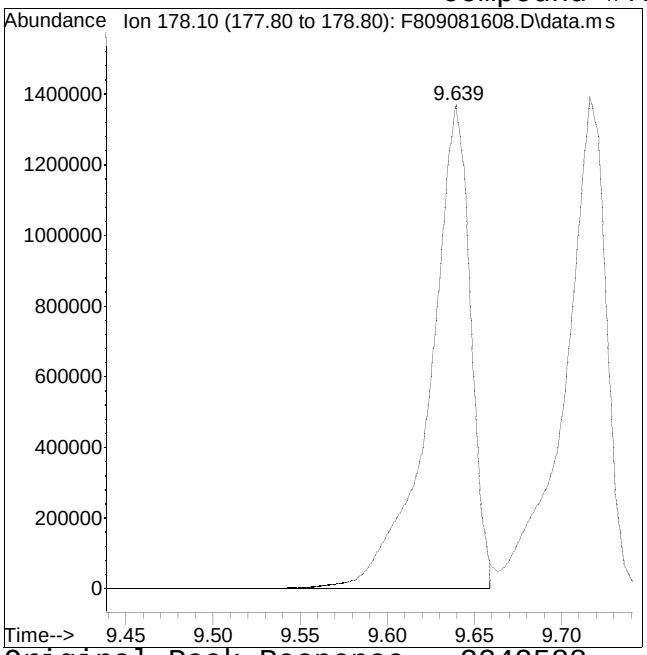


Original Peak Response = 421945 Manual Peak Response = 425603 M4
M4 = Poor automated baseline construction.

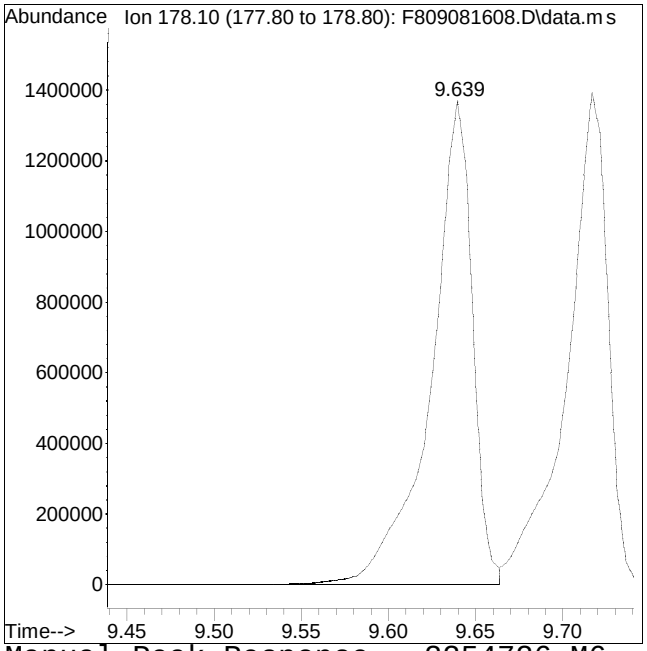
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081608.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:23 pm Instrument : BNA8
Sample : I809081606 Quant Date : 9/9/2016 7:48 am

Compound #71: Phenanthrene



Original Peak Response = 2242588



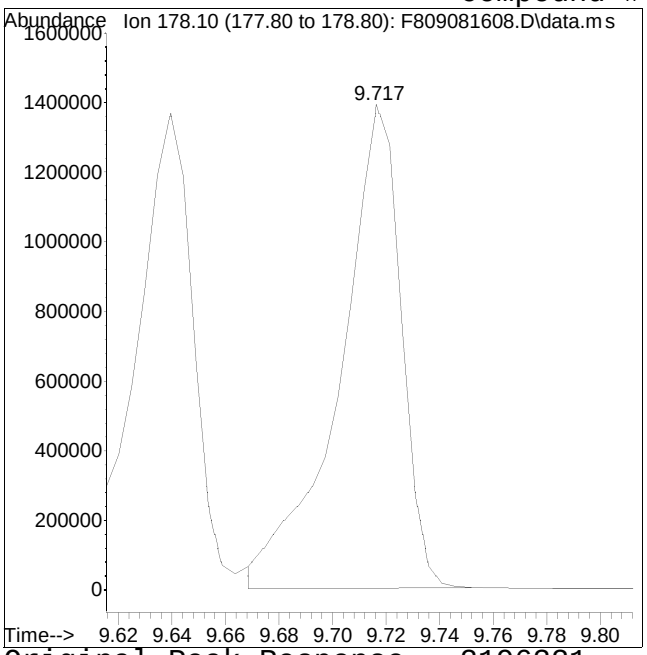
Manual Peak Response = 2254726 M6

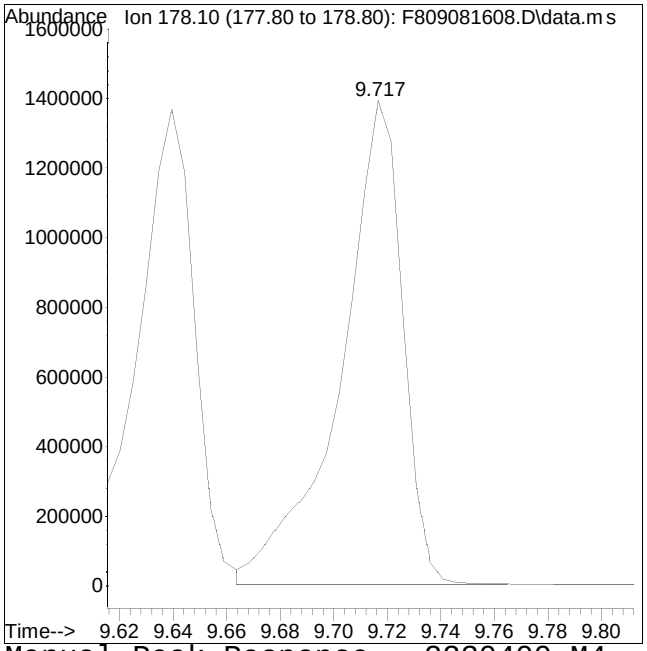
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081608.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:23 pm Instrument : BNA8
Sample : I809081606 Quant Date : 9/9/2016 7:48 am

Compound #72: Anthracene



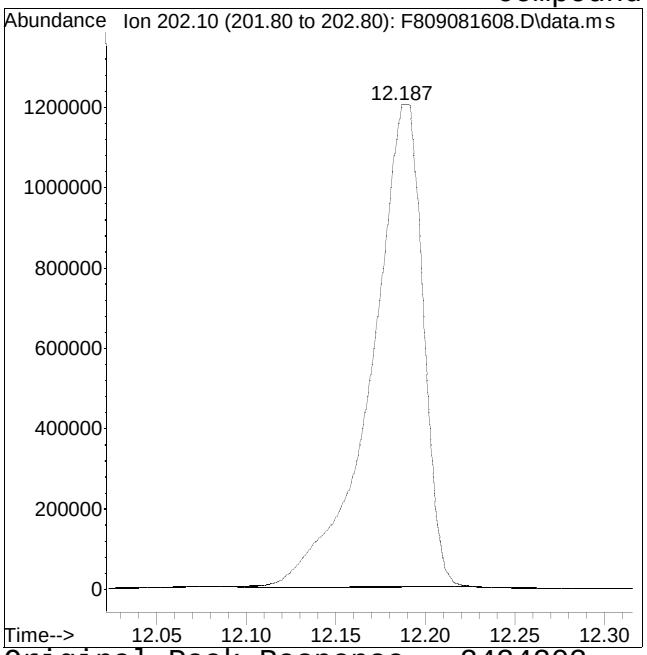


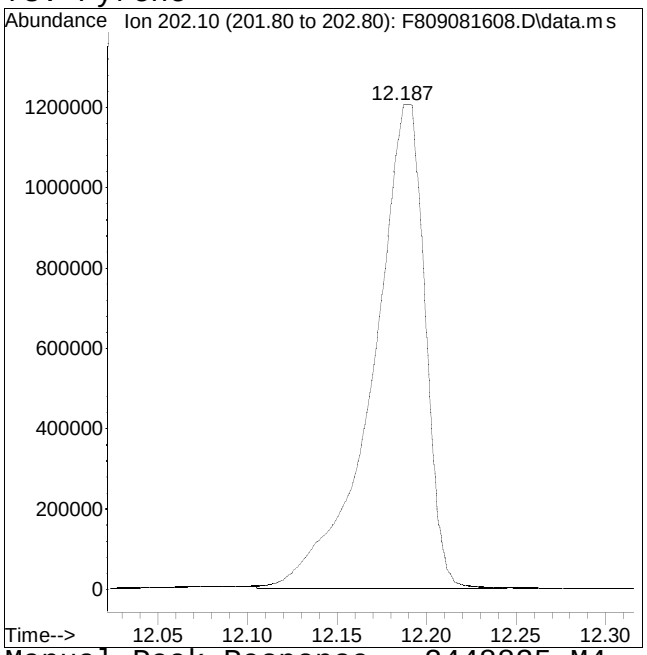
Original Peak Response = 2196321 Manual Peak Response = 2230400 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081608.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:23 pm Instrument : BNA8
Sample : I809081606 Quant Date : 9/9/2016 7:48 am

Compound #78: Pyrene



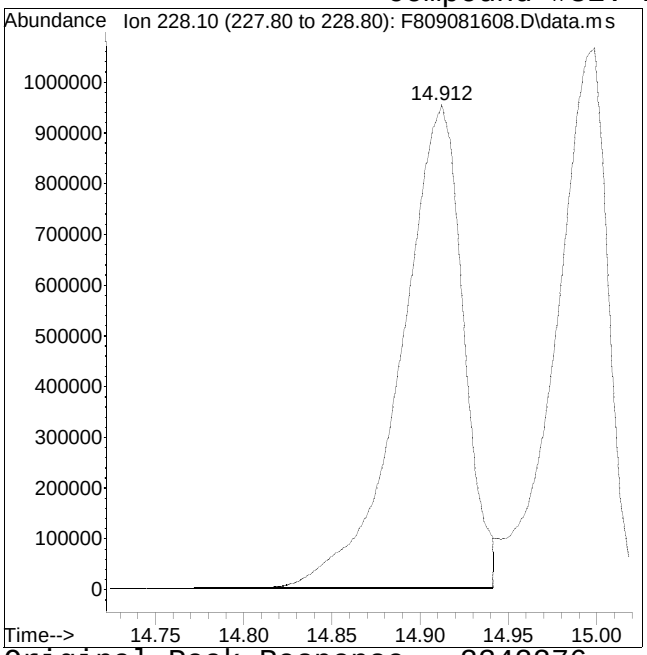


Original Peak Response = 2424203 Manual Peak Response = 2448835 M4
M4 = Poor automated baseline construction.

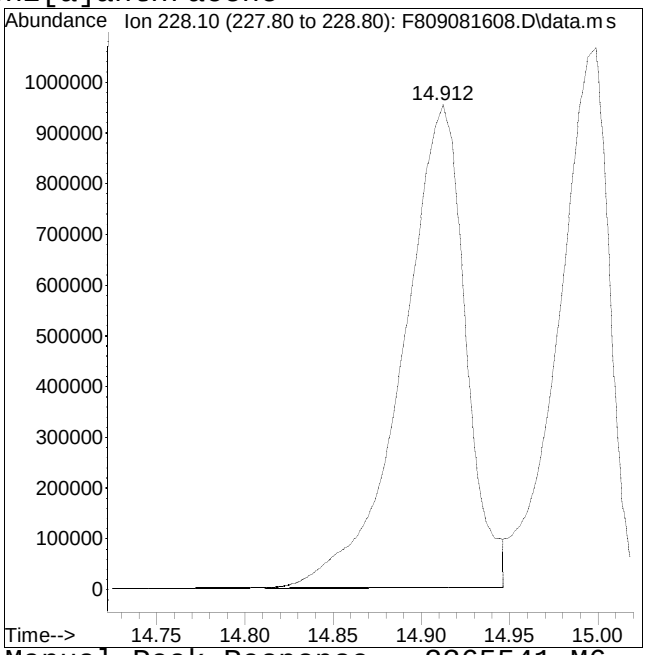
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081608.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:23 pm Instrument : BNA8
Sample : I809081606 Quant Date : 9/9/2016 7:48 am

Compound #82: Benz[a]anthracene



Original Peak Response = 2342276



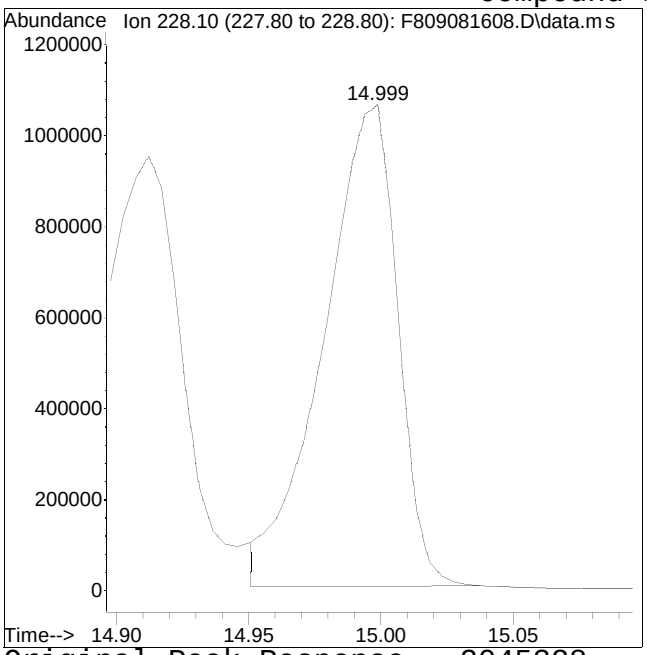
Manual Peak Response = 2365541 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

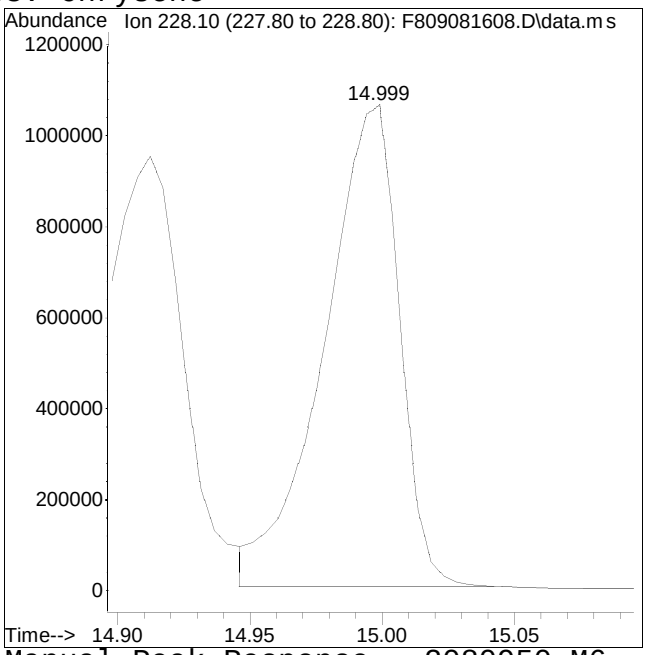
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081608.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:23 pm Instrument : BNA8
Sample : I809081606 Quant Date : 9/9/2016 7:48 am

Compound #83: Chrysene



Original Peak Response = 2045328



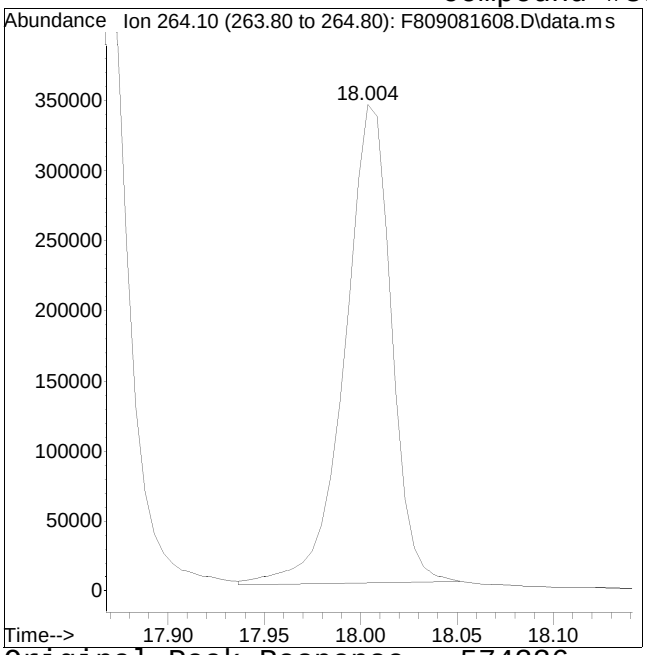
Manual Peak Response = 2080950 M6

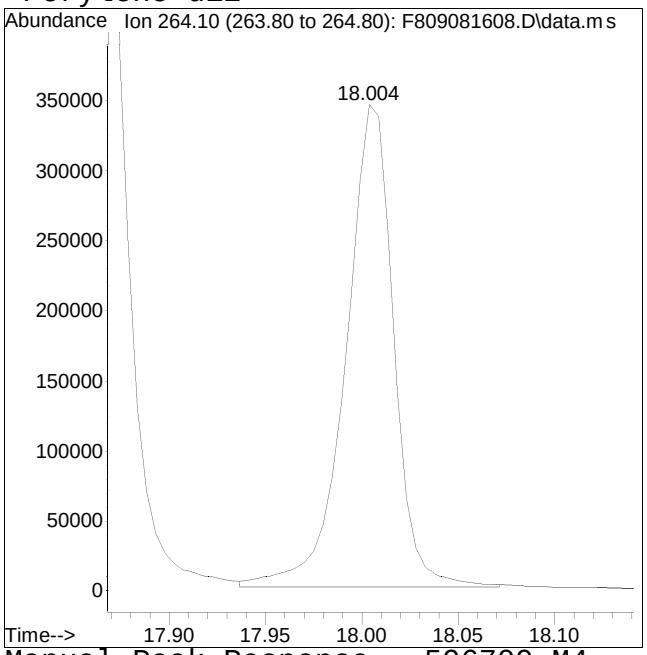
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081608.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:23 pm Instrument : BNA8
Sample : I809081606 Quant Date : 9/9/2016 7:48 am

Compound #85: Perylene-d12



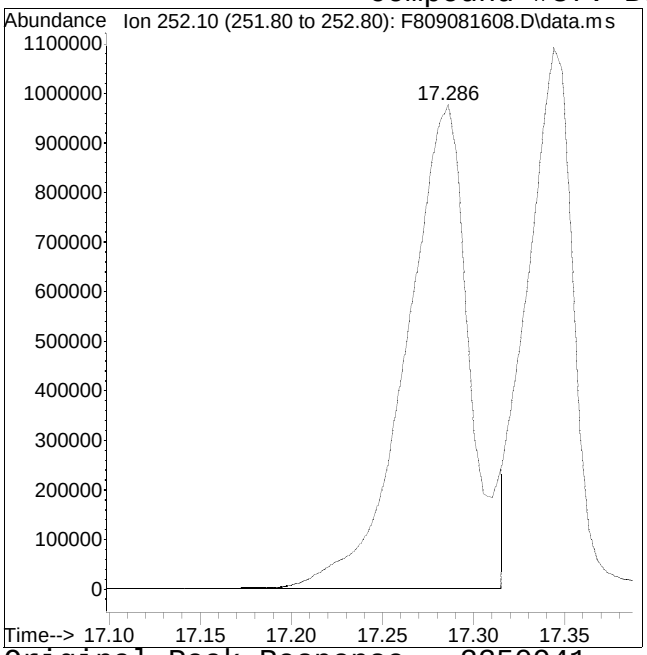


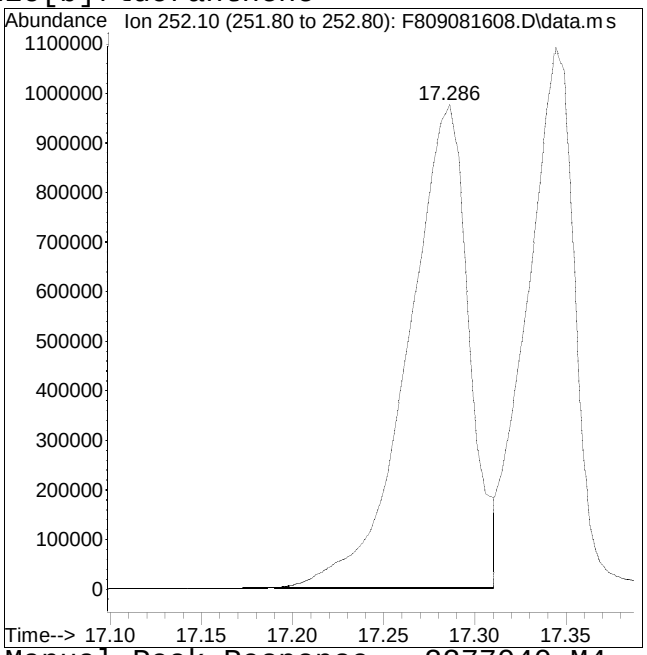
Original Peak Response = 574336 Manual Peak Response = 596709 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081608.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:23 pm Instrument : BNA8
Sample : I809081606 Quant Date : 9/9/2016 7:48 am

Compound #87: Benzo[b]fluoranthene



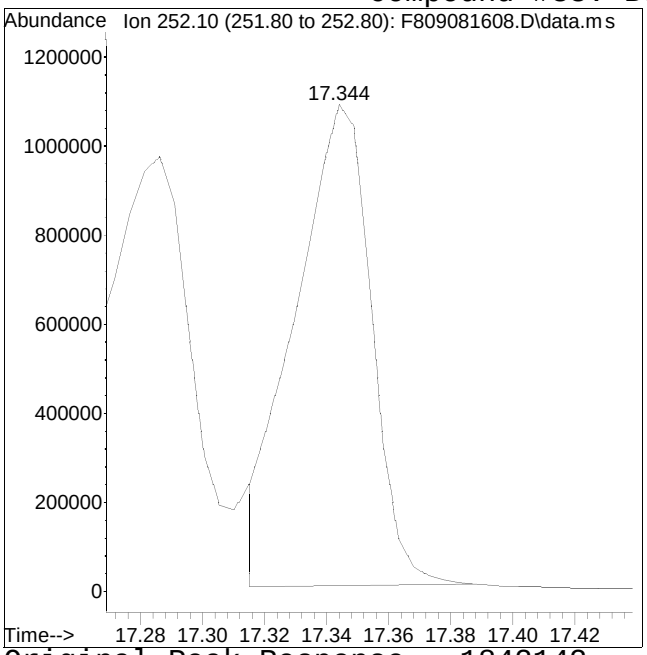


Original Peak Response = 2350941 Manual Peak Response = 2277040 M4
M4 = Poor automated baseline construction.

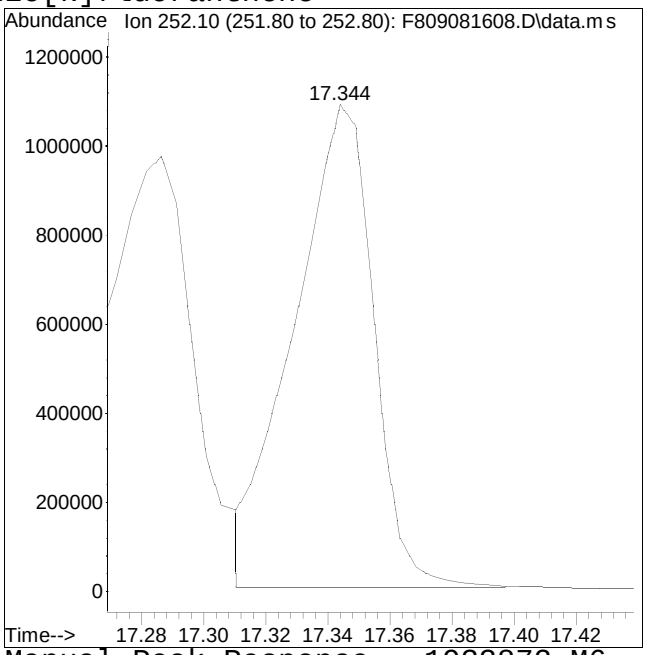
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081608.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:23 pm Instrument : BNA8
Sample : I809081606 Quant Date : 9/9/2016 7:48 am

Compound #88: Benzo[k]fluoranthene



Original Peak Response = 1842142



Manual Peak Response = 1933872 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081609.D
Acq On : 8 Sep 2016 10:56 pm
Operator : BNA8:ML
Sample : I809081607
Misc : WG930406,MSAK76
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 09 15:59:52 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 09:15:41 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	195513	5.000	ug/mL	0.00
21) Naphthalene-d8	6.047	136	732163	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.752	164	392124	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.606	188	686133	5.000	ug/mL	0.00
76) Chrysene-d12	14.941	240	624148	5.000	ug/mL	0.02
85) Perylene-d12	18.013	264	580343	5.000	ug/mL	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	3.832	112	1123767	23.931	ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 119.66%#			
8) Phenol-d5	4.559	99	1364559	23.988	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 119.94%#			
22) Nitrobenzene-d5	5.383	82	1042511	24.474	ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 122.37%#			
43) 2-Fluorobiphenyl	7.082	172	2384148	24.096	ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 120.48%#			
65) 2,4,6-Tribromophenol	8.652	330	272556	27.008	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 135.04%#			
79) Terphenyl-d14	12.591	244	2372779	24.304	ug/mL	0.01
Spiked Amount 20.000	Range 33 - 141		Recovery = 121.52%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.985	74	573077	24.405	ug/mL	96
3) Pyridine	2.961	79	1104711	24.108	ug/mL	94
5) Benzaldehyde	0.000		0	N.D.	d	
6) Aniline	4.607	93	1621627M4	23.428	ug/ml	
7) bis(2-Chloroethyl)ether	4.646	63	669323	22.727	ug/mL	97
9) Phenol	4.574	94	1352944M4	23.041	ug/mL	
10) 2-Chlorophenol	4.704	128	1265007	23.938	ug/mL	100
11) 1,3-Dichlorobenzene	4.834	146	1357276	23.282	ug/mL	100
12) 1,4-Dichlorobenzene	4.896	146	1348017	23.243	ug/mL	100
13) 1,2-Dichlorobenzene	5.031	146	1289398	23.400	ug/mL	100
14) Benzyl alcohol	5.002	108	786336	25.029	ug/mL	98
15) bis(2-chloroisopropyl)eth	5.108	45	841655	20.701	ug/mL#	1
16) 2-Methylphenol	5.094	108	944868M4	23.436	ug/mL	
17) Acetophenone	0.000		0	N.D.	d	
18) Hexachloroethane	5.330	117	505908	23.890	ug/mL	91
19) N-Nitroso-di-n-propylamin	5.253	70	681660	23.783	ug/mL	92
20) 4-Methylphenol	5.238	108	1028483	23.194	ug/mL	98
23) Nitrobenzene	5.402	77	1004049	23.642	ug/mL	94

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081609.D
Acq On : 8 Sep 2016 10:56 pm
Operator : BNA8:ML
Sample : I809081607
Misc : WG930406,MSAK76
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 09 15:59:52 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 09:15:41 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
24) Isophorone	5.628	82	1676232	24.529 ug/mL	96
25) 2-Nitrophenol	5.691	139	699876	25.207 ug/mL#	87
26) 2,4-Dimethylphenol	5.725	107	1023701	23.185 ug/mL	98
27) Benzoic acid	5.855	105	473175M4	23.830 ug/mL	
28) bis(2-Chloroethoxy)methan	5.811	93	1176517	23.766 ug/mL	100
29) 2,4-Dichlorophenol	5.917	162	1008768	24.974 ug/mL	99
30) 1,2,4-Trichlorobenzene	5.989	180	1050223	23.947 ug/mL	100
31) Naphthalene	6.071	128	3249036	23.098 ug/mL	98
32) 2-Chloroaniline	5.657	127	1686761	23.774 ug/ml	99
33) 4-Chloroaniline	6.119	127	1459084M4	24.455 ug/mL	
34) Hexachlorobutadiene	6.172	225	543363	24.371 ug/mL	100
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	6.577	107	962554	24.736 ug/mL	99
37) 2-Methylnaphthalene	6.726	142	2268750	23.770 ug/mL	98
39) 1,2,4,5-Tetrachlorobenzen	6.890	216	996391	24.385 ug/mL	100
40) Hexachlorocyclopentadiene	6.875	237	487934	26.070 ug/mL	96
41) 2,4,6-Trichlorophenol	7.001	196	830338	28.204 ug/mL	100
42) 2,4,5-Trichlorophenol	7.039	196	666827M4	25.373 ug/mL	
44) Biphenyl	0.000		0	N.D. d	
45) 2-Chloronaphthalene	7.203	162	2130670	24.064 ug/mL	99
46) 2-Nitroaniline	7.309	65	526394	25.716 ug/mL	98
47) Acenaphthylene	7.612	152	3509296	23.970 ug/mL	99
48) Dimethylphthalate	7.482	163	2397759	25.174 ug/mL	100
49) 2,6-Dinitrotoluene	7.550	165	597936	27.027 ug/mL	92
50) Acenaphthene	7.790	153	2116101	23.757 ug/mL	98
51) 3-Nitroaniline	7.723	138	666950	26.346 ug/mL	99
52) 2,4-Dinitrophenol	7.829	184	359696	27.383 ug/mL#	81
53) Dibenzofuran	7.973	168	2761743	23.749 ug/mL	100
54) 2,3,4,6-Tetrachlorophenol	8.108	232	521188	29.543 ug/mL	96
55) 2,4-Dinitrotoluene	7.968	165	757718	26.699 ug/mL	91
56) 4-Nitrophenol	7.906	109	290869M4	30.478 ug/mL	
57) Fluorene	8.363	166	2268478	23.681 ug/mL	99
58) 4-Chlorophenyl-phenylethe	8.354	204	1028834	23.990 ug/mL	99
59) Diethylphthalate	8.229	149	2473471	25.408 ug/mL	99
60) 4-Nitroaniline	8.407	138	679621	26.102 ug/mL	96
62) 4,6-Dinitro-2-methylpheno	8.431	198	422451	26.813 ug/mL#	88
63) Azobenzene	8.546	182	663768	23.845 ug/mL	88
64) n-Nitrosodiphenylamine	8.503	169	1709525	23.535 ug/mL	99
66) 4-Bromophenyl-phenylether	8.970	248	628283	24.672 ug/mL	99
67) Hexachlorobenzene	9.047	284	648403	24.355 ug/mL	96
68) Atrazine	0.000		0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081609.D
Acq On : 8 Sep 2016 10:56 pm
Operator : BNA8:ML
Sample : I809081607
Misc : WG930406,MSAK76
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 09 15:59:52 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 09:15:41 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
69) Pentachlorophenol	9.326	266	417529	25.277 ug/mL	97
70) Pentachloronitrobenzene	9.346	237	281305	26.527 ug/ml	90
71) Phenanthrene	9.644	178	3529947M4	23.751 ug/mL	
72) Anthracene	9.726	178	3398706M4	23.373 ug/mL	
73) Carbazole	9.986	167	3187916	22.528 ug/mL	100
74) Di-n-butylphthalate	10.607	149	4105246	23.984 ug/mL	100
75) Fluoranthene	11.749	202	3515599	22.796 ug/mL	97
77) Benzidine	0.000		0	N.D.	
78) Pyrene	12.196	202	3795715	24.397 ug/mL	96
80) Butylbenzylphthalate	13.781	149	1994291	26.091 ug/mL	95
81) 3,3'-Dichlorobenzidine	0.000		0	N.D.	
82) Benz[a]anthracene	14.922	228	3811998	25.876 ug/mL	99
83) Chrysene	15.013	228	3233989M4	23.805 ug/mL	
84) bis(2-Ethylhexyl)phthalat	15.240	149	2654586	26.481 ug/mL	99
86) Di-n-octylphthalate	16.747	149	4762424	25.978 ug/mL	100
87) Benzo[b]fluoranthene	17.301	252	3589854M6	25.219 ug/mL	
88) Benzo[k]fluoranthene	17.363	252	3072010M6	23.719 ug/mL	
89) Benzo[a]pyrene	17.931	252	3310233	24.661 ug/mL	96
90) Indeno[1,2,3-cd]pyrene	19.857	276	3095445M3	26.061 ug/mL	
91) Dibenz[a,h]anthracene	19.906	278	2952415	25.094 ug/mL	94
92) Benzo[g,h,i]perylene	20.315	276	3137529	24.854 ug/mL	97

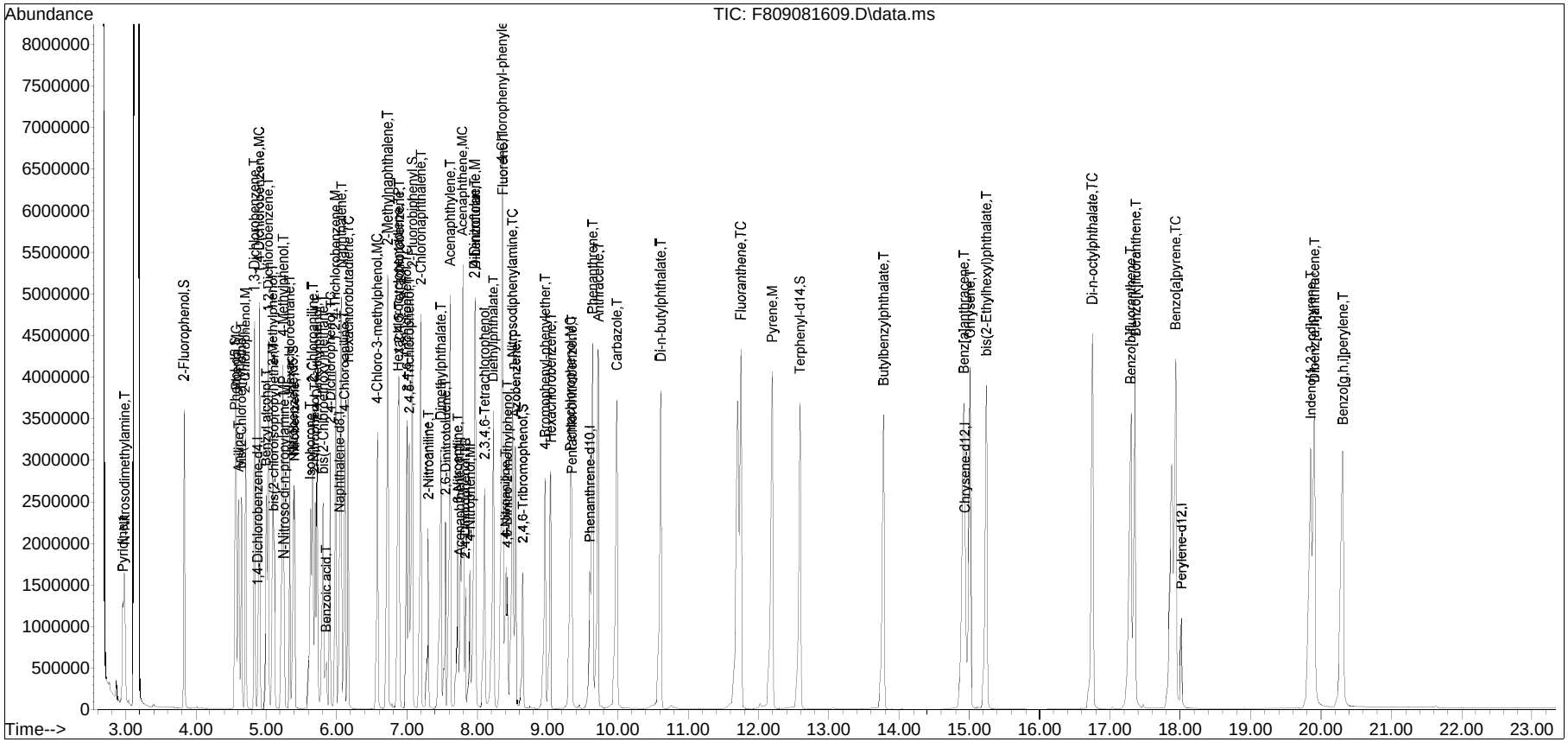
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081609.D
Acq On : 8 Sep 2016 10:56 pm
Operator : BNA8:ML
Sample : I809081607
Misc : WG930406,MSAK76
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 09 15:59:52 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 09:15:41 2016
Response via : Initial Calibration

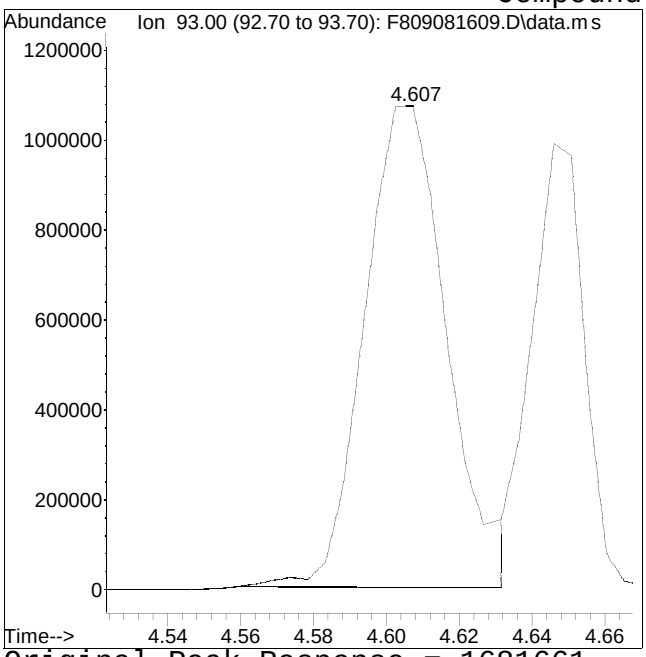
Sub List : Default - All compounds listed



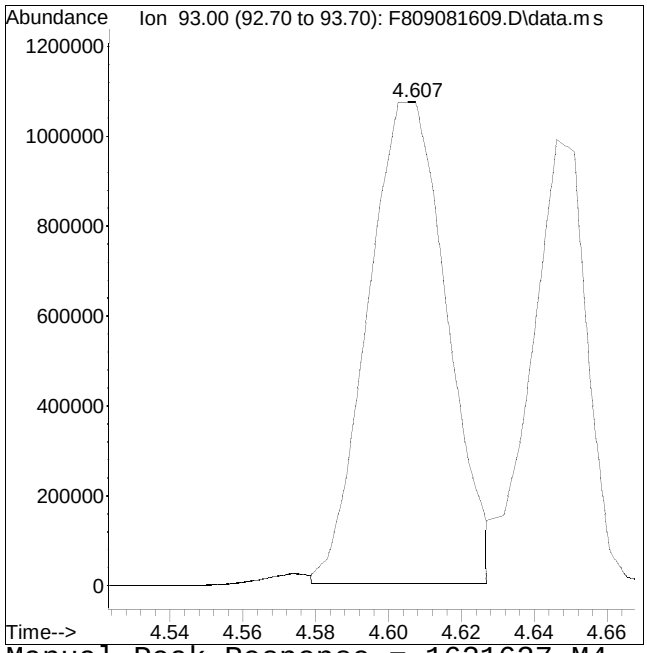
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081609.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:56 pm Instrument : BNA8
Sample : I809081607 Quant Date : 9/9/2016 9:15 am

Compound #6: Aniline



Original Peak Response = 1681661



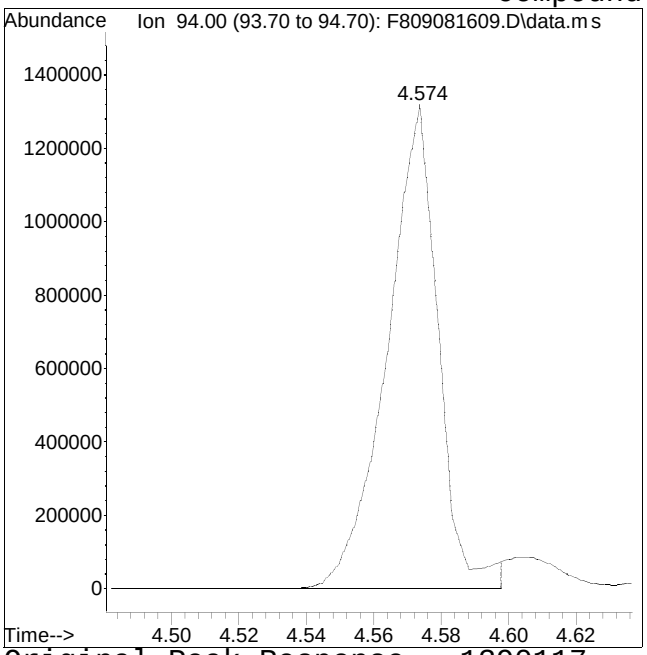
Manual Peak Response = 1621627 M4

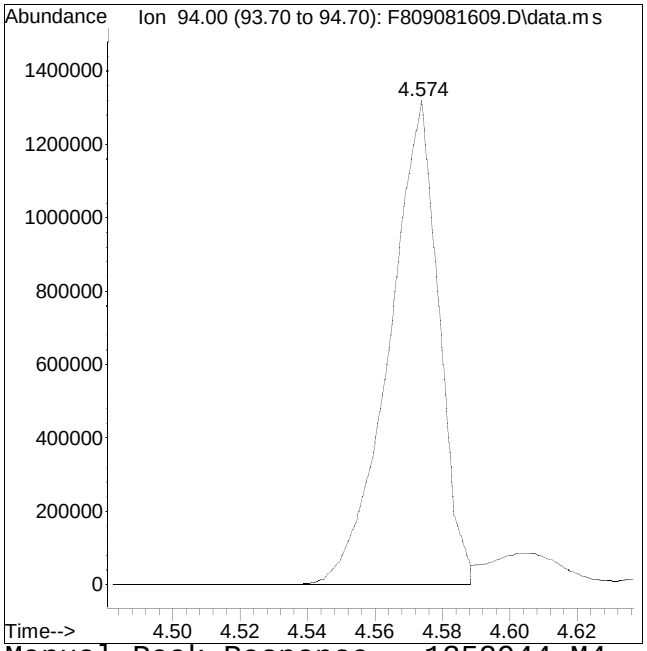
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081609.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:56 pm Instrument : BNA8
Sample : I809081607 Quant Date : 9/9/2016 9:15 am

Compound #9: Phenol



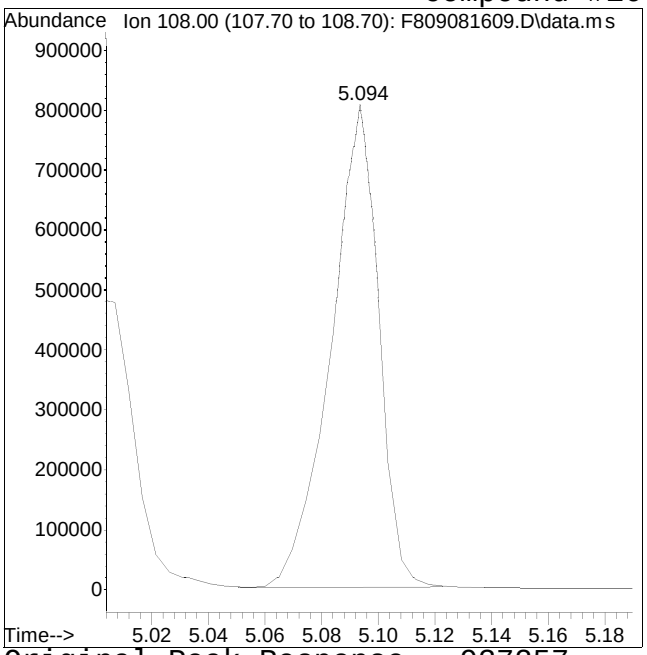


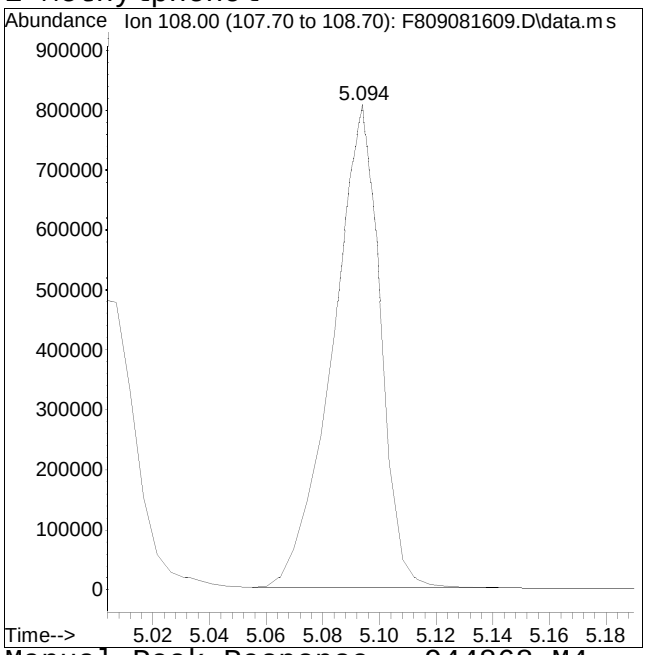
Original Peak Response = 1390117 Manual Peak Response = 1352944 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081609.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:56 pm Instrument : BNA8
Sample : I809081607 Quant Date : 9/9/2016 9:15 am

Compound #16: 2-Methylphenol



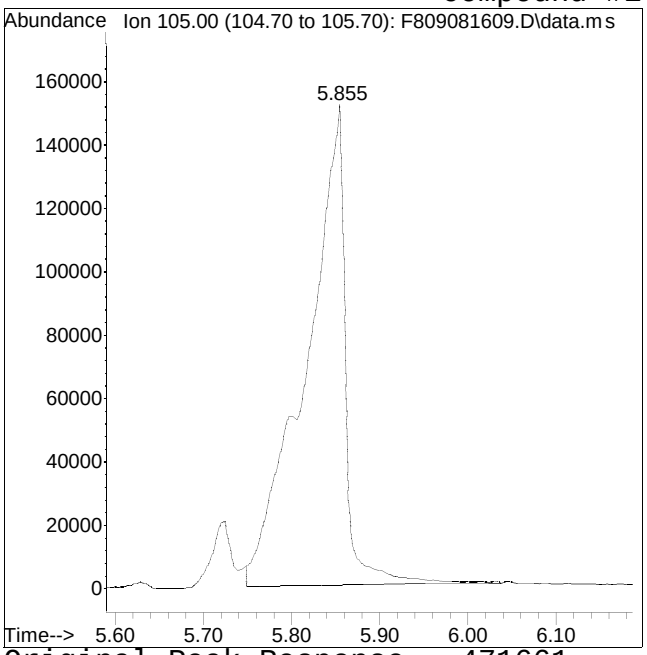


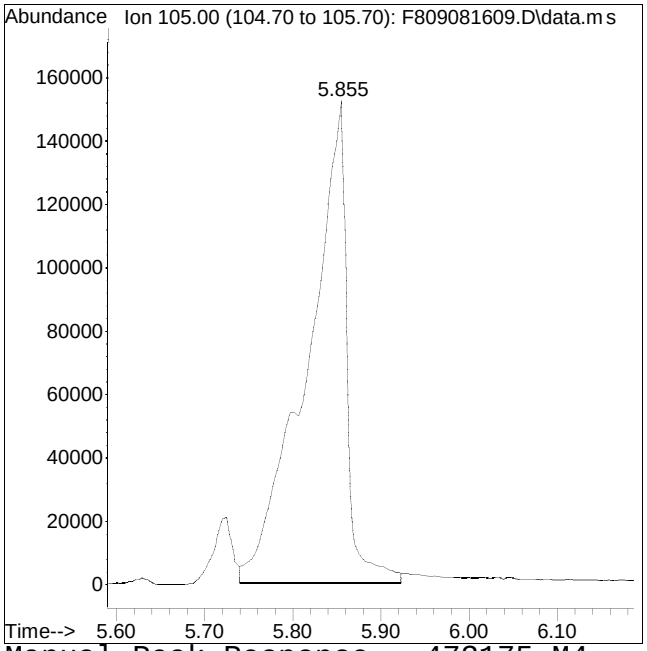
Original Peak Response = 937257 Manual Peak Response = 944868 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081609.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:56 pm Instrument : BNA8
Sample : I809081607 Quant Date : 9/9/2016 9:15 am

Compound #27: Benzoic acid



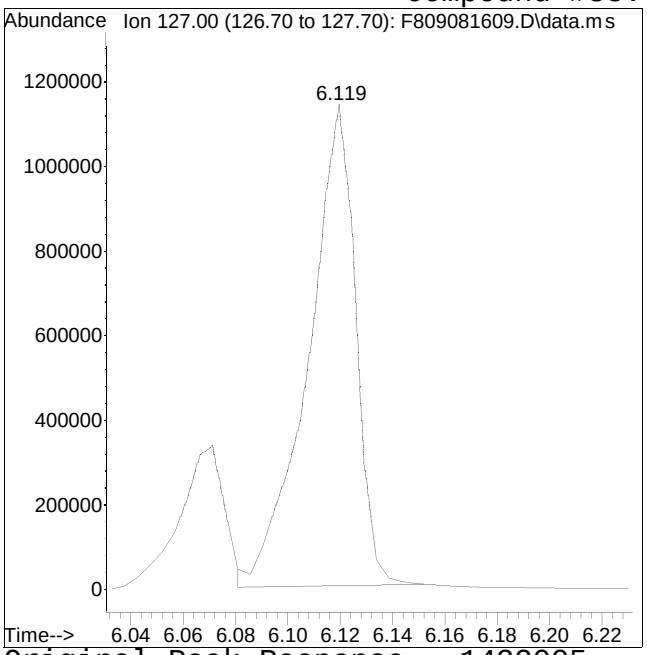


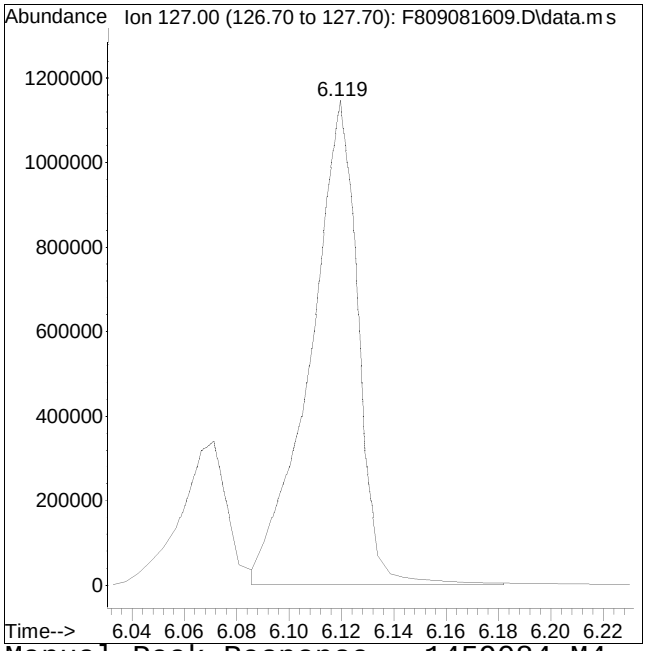
Original Peak Response = 471661 Manual Peak Response = 473175 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081609.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:56 pm Instrument : BNA8
Sample : I809081607 Quant Date : 9/9/2016 9:15 am

Compound #33: 4-Chloroaniline



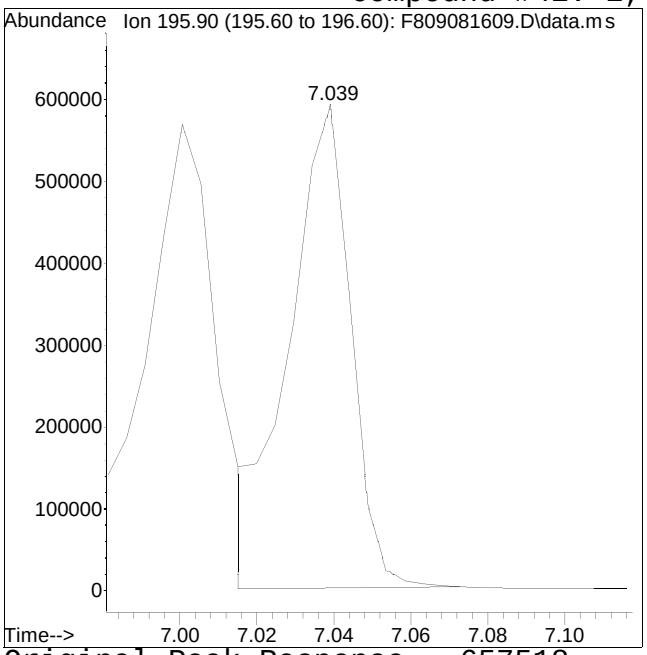


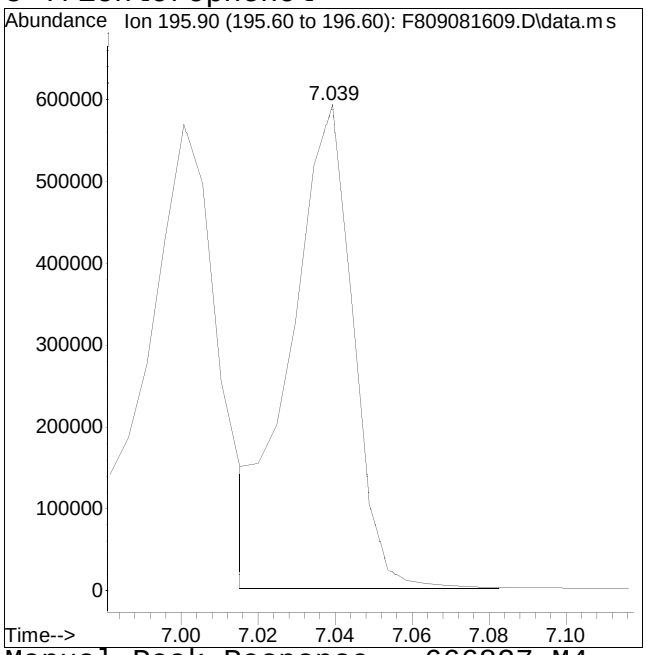
Original Peak Response = 1422005 Manual Peak Response = 1459084 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081609.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:56 pm Instrument : BNA8
Sample : I809081607 Quant Date : 9/9/2016 9:15 am

Compound #42: 2,4,5-Trichlorophenol



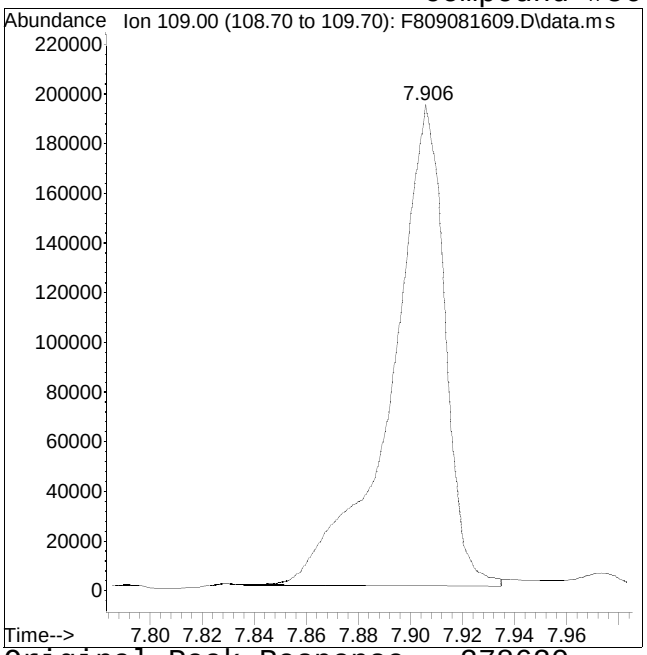


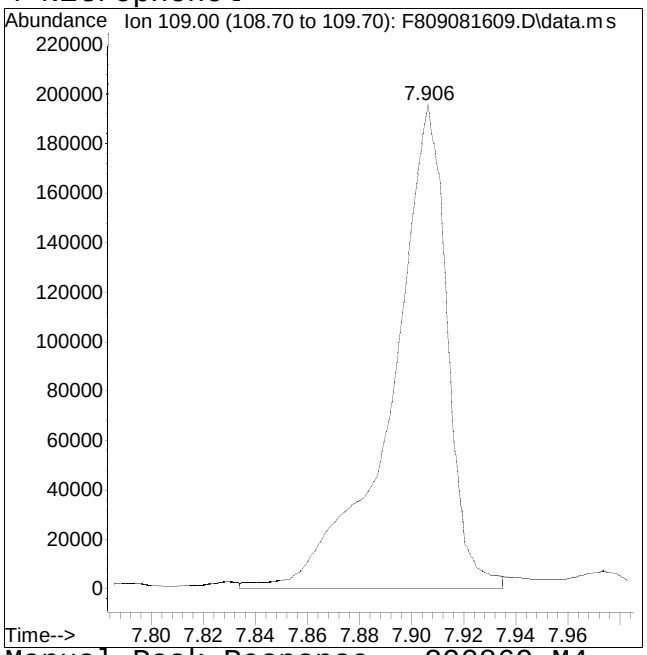
Original Peak Response = 657518 Manual Peak Response = 666827 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081609.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:56 pm Instrument : BNA8
Sample : I809081607 Quant Date : 9/9/2016 9:15 am

Compound #56: 4-Nitrophenol



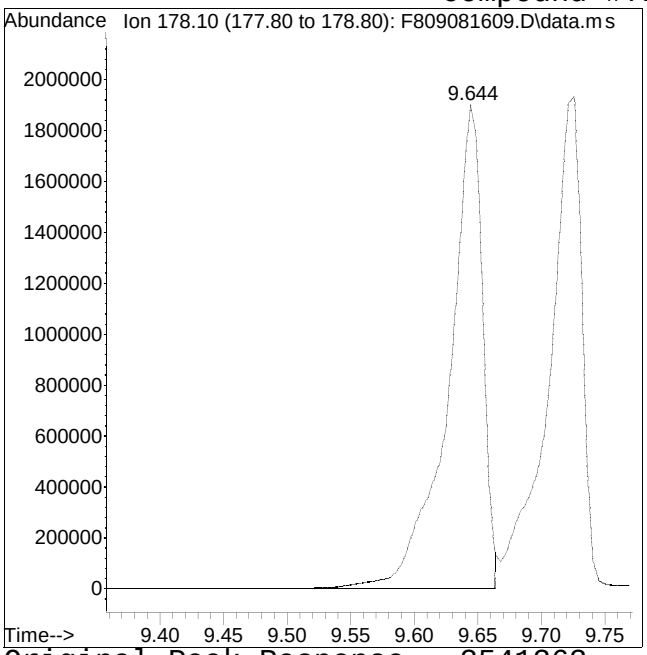


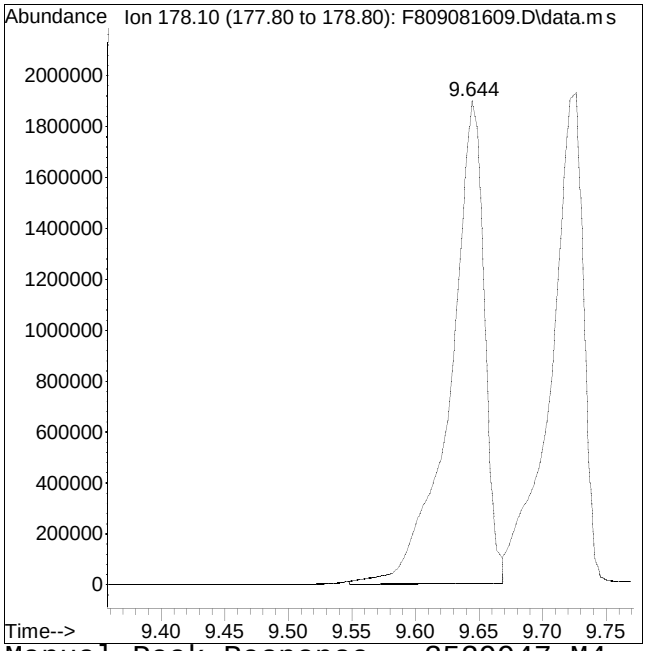
Original Peak Response = 278620 Manual Peak Response = 290869 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081609.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:56 pm Instrument : BNA8
Sample : I809081607 Quant Date : 9/9/2016 9:15 am

Compound #71: Phenanthrene



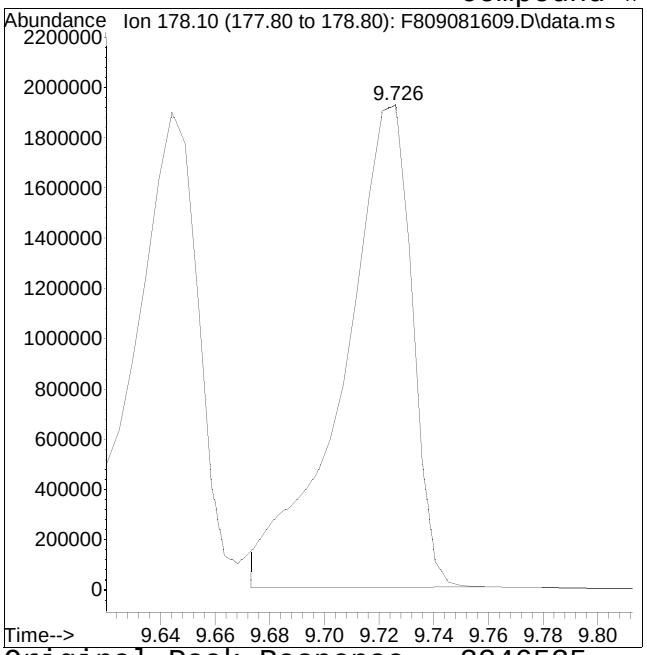


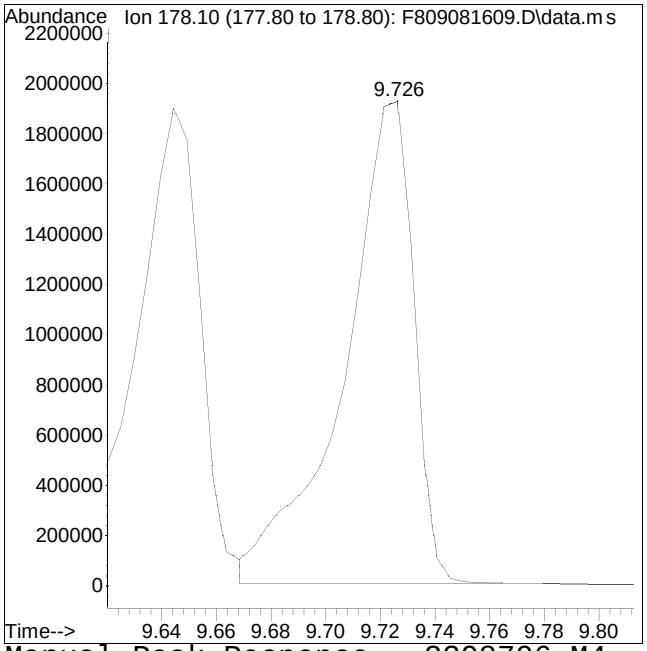
Original Peak Response = 3541363 Manual Peak Response = 3529947 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081609.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:56 pm Instrument : BNA8
Sample : I809081607 Quant Date : 9/9/2016 9:15 am

Compound #72: Anthracene



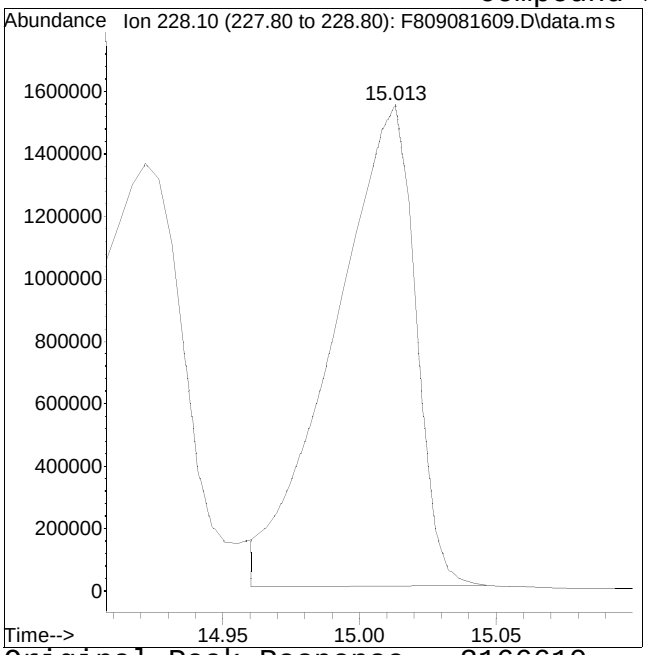


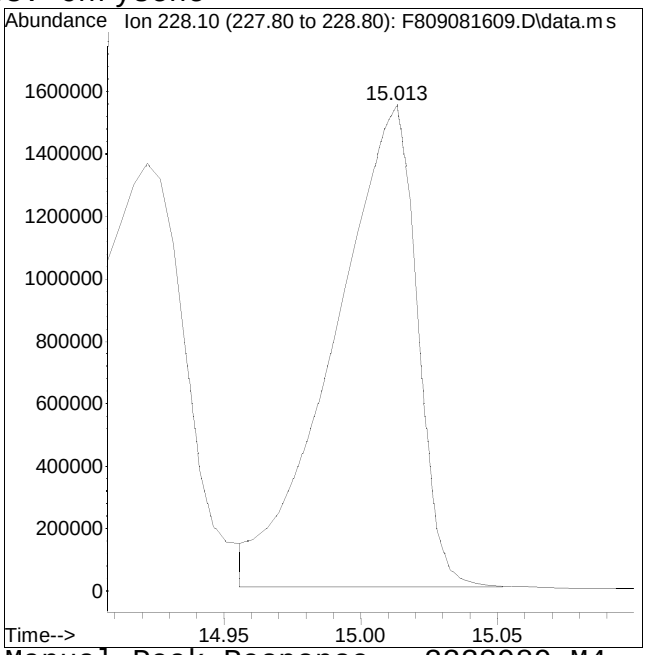
Original Peak Response = 3346535 Manual Peak Response = 3398706 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081609.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:56 pm Instrument : BNA8
Sample : I809081607 Quant Date : 9/9/2016 9:15 am

Compound #83: Chrysene



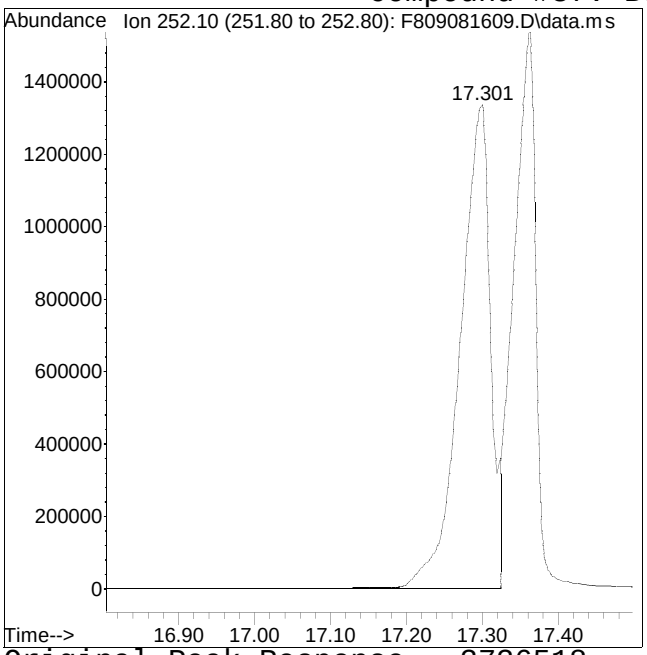


Original Peak Response = 3166610 Manual Peak Response = 3233989 M4
M4 = Poor automated baseline construction.

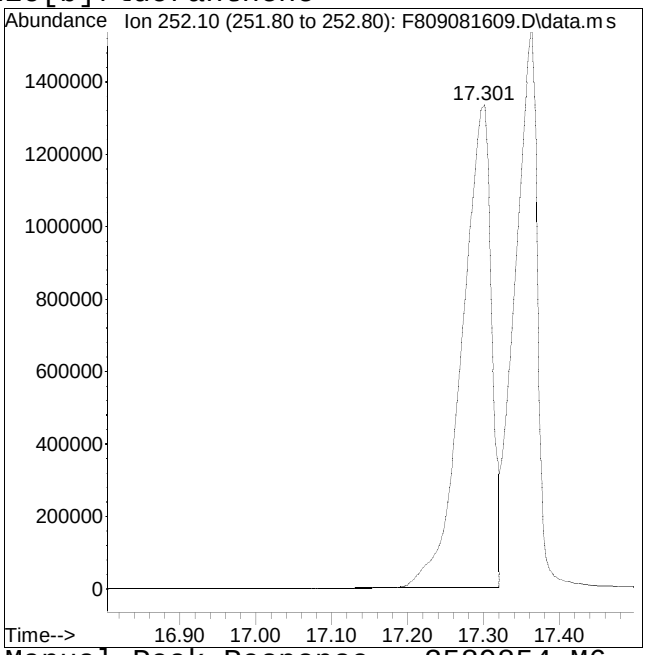
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081609.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:56 pm Instrument : BNA8
Sample : I809081607 Quant Date : 9/9/2016 9:15 am

Compound #87: Benzo[b]fluoranthene



Original Peak Response = 3736518



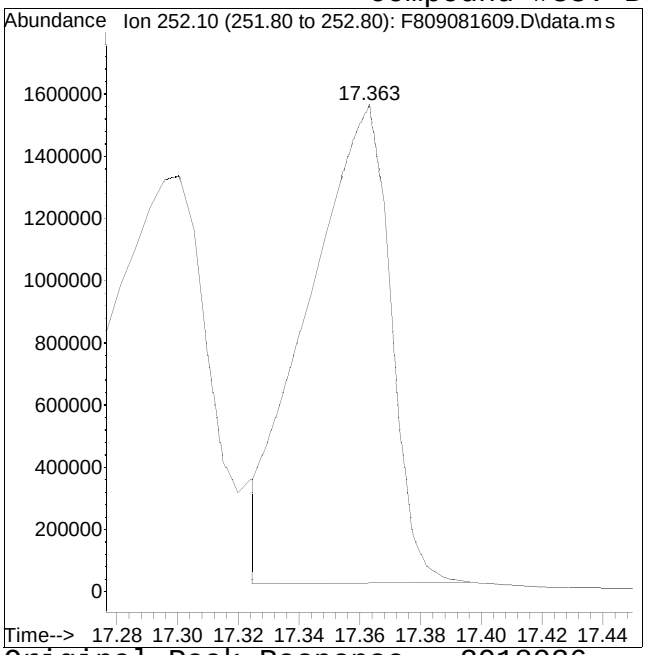
Manual Peak Response = 3589854 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

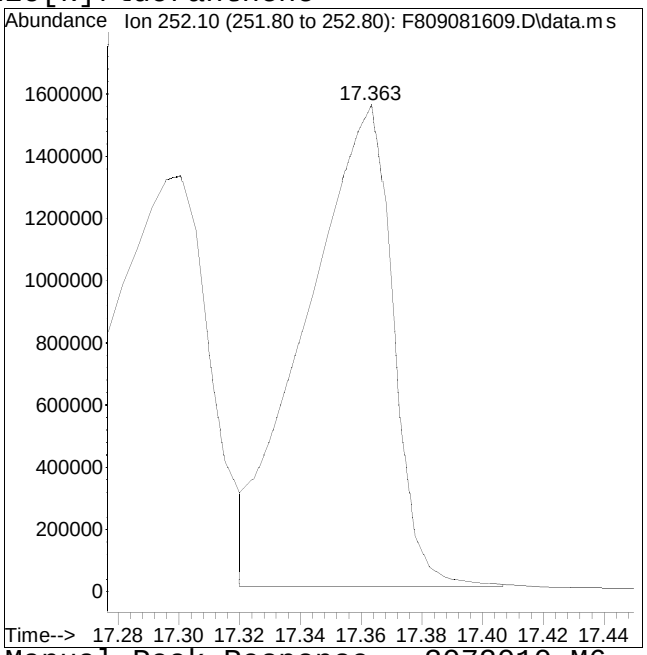
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081609.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:56 pm Instrument : BNA8
Sample : I809081607 Quant Date : 9/9/2016 9:15 am

Compound #88: Benzo[k]fluoranthene



Original Peak Response = 2918036



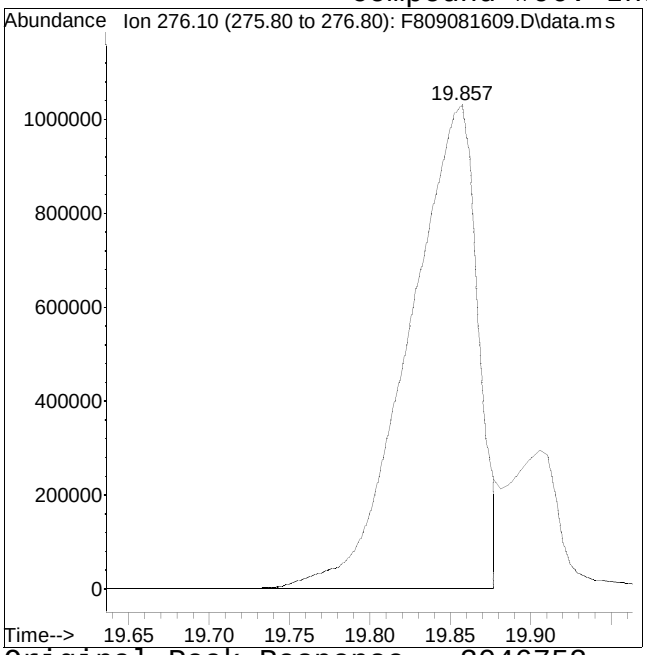
Manual Peak Response = 3072010 M6

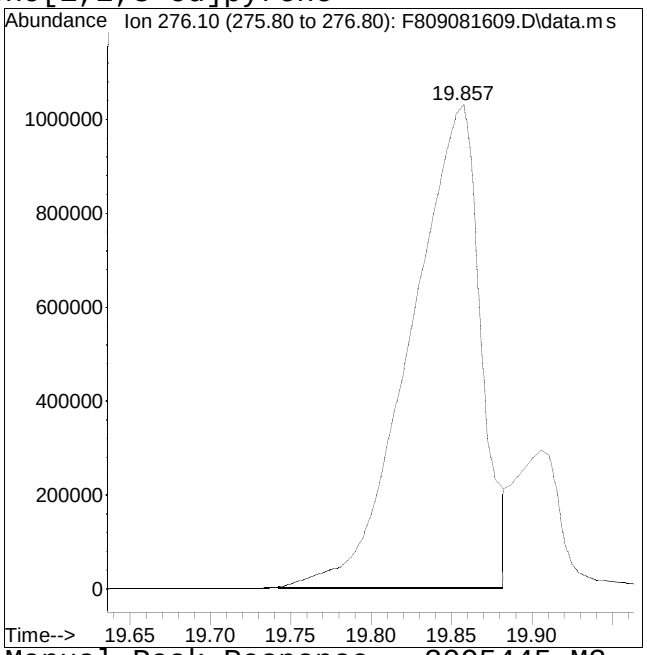
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081609.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 10:56 pm Instrument : BNA8
Sample : I809081607 Quant Date : 9/9/2016 9:15 am

Compound #90: Indeno[1,2,3-cd]pyrene





Original Peak Response = 3046752 Manual Peak Response = 3095445 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081610.D
Acq On : 8 Sep 2016 11:29 pm
Operator : BNA8:ML
Sample : I809081608
Misc : WG930406,MSAK69,X2
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 09 16:03:08 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 08:54:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.882	152	177438	5.000	ug/mL	0.00
21) Naphthalene-d8	6.052	136	661227	5.000	ug/mL	# 0.00
38) Acenaphthene-d10	7.757	164	361828	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.610	188	610919	5.000	ug/mL	0.01
76) Chrysene-d12	14.955	240	566359M4	5.000	ug/mL	0.04
85) Perylene-d12	18.028	264	529974	5.000	ug/mL	0.03
System Monitoring Compounds						
4) 2-Fluorophenol	3.842	112	1878877	44.088	ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 220.44%#			
8) Phenol-d5	4.574	99	2320276	44.944	ug/mL	0.02
Spiked Amount 20.000	Range 10 - 94		Recovery = 224.72%#			
22) Nitrobenzene-d5	5.392	82	1753060	45.571	ug/mL	0.01
Spiked Amount 20.000	Range 35 - 114		Recovery = 227.86%#			
43) 2-Fluorobiphenyl	7.087	172	3970971	43.494	ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 217.47%#			
65) 2,4,6-Tribromophenol	8.662	330	487939	54.536	ug/mL	0.01
Spiked Amount 20.000	Range 10 - 123		Recovery = 272.68%#			
79) Terphenyl-d14	12.601	244	4149663	46.841	ug/mL	0.02
Spiked Amount 20.000	Range 33 - 141		Recovery = 234.20%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.033	74	949870M4	44.571	ug/mL	
3) Pyridine	3.004	79	1960556	47.144	ug/mL	93
5) Benzaldehyde	0.000		0	N.D.	d	
6) Aniline	4.622	93	2942478M4	46.841	ug/ml	
7) bis(2-Chloroethyl)ether	4.660	63	1112064M4	41.607	ug/mL	
9) Phenol	4.588	94	2279808M4	42.781	ug/mL	
10) 2-Chlorophenol	4.713	128	2138772	44.595	ug/mL	99
11) 1,3-Dichlorobenzene	4.838	146	2241570	42.367	ug/mL	100
12) 1,4-Dichlorobenzene	4.901	146	2202806	41.851	ug/mL	100
13) 1,2-Dichlorobenzene	5.036	146	2036374	40.721	ug/mL	100
14) Benzyl alcohol	5.017	108	1299999	45.595	ug/mL	97
15) bis(2-chloroisopropyl)eth	5.118	45	1224232	33.177	ug/mL#	1
16) 2-Methylphenol	5.103	108	1557899M4	42.577	ug/mL	
17) Acetophenone	0.000		0	N.D.	d	
18) Hexachloroethane	5.334	117	837348	43.569	ug/mL	89
19) N-Nitroso-di-n-propylamin	5.272	70	1153670	44.353	ug/mL	91
20) 4-Methylphenol	5.253	108	1787910	44.428	ug/mL	99
23) Nitrobenzene	5.412	77	1672601	43.609	ug/mL	94

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081610.D
Acq On : 8 Sep 2016 11:29 pm
Operator : BNA8:ML
Sample : I809081608
Misc : WG930406,MSAK69,X2
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 09 16:03:08 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 08:54:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
24) Isophorone	5.647	82	2730376	44.241 ug/mL	96
25) 2-Nitrophenol	5.700	139	1181177	47.106 ug/mL#	88
26) 2,4-Dimethylphenol	5.734	107	1721746	43.178 ug/mL	99
27) Benzoic acid	5.898	105	1099120M4	49.636 ug/mL	
28) bis(2-Chloroethoxy)methan	5.816	93	1986751	44.439 ug/mL	99
29) 2,4-Dichlorophenol	5.922	162	1735685	47.581 ug/mL	99
30) 1,2,4-Trichlorobenzene	5.994	180	1768913	44.662 ug/mL	99
31) Naphthalene	6.076	128	5376148M4	42.320 ug/mL	
32) 2-Chloroaniline	5.667	127	2729489	42.598 ug/ml	100
33) 4-Chloroaniline	6.129	127	2451534M4	45.497 ug/mL	
34) Hexachlorobutadiene	6.177	225	926631	46.020 ug/mL	99
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	6.586	107	1662880	47.318 ug/mL	99
37) 2-Methylnaphthalene	6.736	142	3772577	43.766 ug/mL	98
39) 1,2,4,5-Tetrachlorobenzen	6.895	216	1674454	44.411 ug/mL	99
40) Hexachlorocyclopentadiene	6.875	237	869156	49.960 ug/mL	96
41) 2,4,6-Trichlorophenol	7.010	196	1533369	56.445 ug/mL	100
42) 2,4,5-Trichlorophenol	7.044	196	1022528M4	42.165 ug/mL	
44) Biphenyl	0.000		0	N.D. d	
45) 2-Chloronaphthalene	7.208	162	3573693	43.741 ug/mL	99
46) 2-Nitroaniline	7.318	65	910710	48.217 ug/mL	97
47) Acenaphthylene	7.622	152	5933717	43.924 ug/mL	100
48) Dimethylphthalate	7.497	163	4194110	47.721 ug/mL	100
49) 2,6-Dinitrotoluene	7.559	165	1110983	54.421 ug/mL	90
50) Acenaphthene	7.800	153	3545590	43.139 ug/mL	98
51) 3-Nitroaniline	7.737	138	1166891	49.954 ug/mL	99
52) 2,4-Dinitrophenol	7.843	184	691840	55.142 ug/mL#	77
53) Dibenzofuran	7.983	168	4598913	42.858 ug/mL	97
54) 2,3,4,6-Tetrachlorophenol	8.113	232	950233	58.373 ug/mL	96
55) 2,4-Dinitrotoluene	7.983	165	1262093	48.195 ug/mL	98
56) 4-Nitrophenol	7.925	109	494375M4	56.140 ug/mL	
57) Fluorene	8.373	166	3819969	43.215 ug/mL	100
58) 4-Chlorophenyl-phenylethe	8.363	204	1724348	43.574 ug/mL	99
59) Diethylphthalate	8.243	149	4036000	44.930 ug/mL	99
60) 4-Nitroaniline	8.426	138	1167500	48.593 ug/mL	96
62) 4,6-Dinitro-2-methylpheno	8.450	198	794868M4	57.069 ug/mL	
63) Azobenzene	8.556	182	1138413	46.098 ug/mL	82
64) n-Nitrosodiphenylamine	8.517	169	2856528	44.321 ug/mL	94
66) 4-Bromophenyl-phenylether	8.975	248	1107614	49.039 ug/mL	99
67) Hexachlorobenzene	9.057	284	1154447	48.889 ug/mL	94
68) Atrazine	0.000		0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081610.D
Acq On : 8 Sep 2016 11:29 pm
Operator : BNA8:ML
Sample : I809081608
Misc : WG930406,MSAK69,X2
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 09 16:03:08 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 08:54:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
69) Pentachlorophenol	9.336	266	797626	52.048 ug/mL	96
70) Pentachloronitrobenzene	9.355	237	491177	52.234 ug/ml	90
71) Phenanthrene	9.659	178	5992096M4	45.437 ug/mL	
72) Anthracene	9.736	178	5857403M4	45.397 ug/mL	
73) Carbazole	10.001	167	5496836	43.777 ug/mL	100
74) Di-n-butylphthalate	10.612	149	7003428	46.120 ug/mL	100
75) Fluoranthene	11.763	202	6112772	44.673 ug/mL#	92
77) Benzidine	0.000		0	N.D.	
78) Pyrene	12.211	202	6546335	46.370 ug/mL	95
80) Butylbenzylphthalate	13.795	149	3497295	50.424 ug/mL	95
81) 3,3'-Dichlorobenzidine	0.000		0	N.D.	
82) Benz[a]anthracene	14.941	228	6865981M4	51.361 ug/mL	
83) Chrysene	15.037	228	5405500M6	43.849 ug/mL	
84) bis(2-Ethylhexyl)phthalat	15.249	149	4523292	49.726 ug/mL	98
86) Di-n-octylphthalate	16.766	149	8298527M4	49.599 ug/mL	
87) Benzo[b]fluoranthene	17.320	252	7019965M3	54.003 ug/mL	
88) Benzo[k]fluoranthene	17.387	252	4735720M6	40.039 ug/mL	
89) Benzo[a]pyrene	17.965	252	5748108	46.892 ug/mL	96
90) Indeno[1,2,3-cd]pyrene	19.886	276	5940395M3	55.554 ug/mL	
91) Dibenz[a,h]anthracene	19.934	278	5289422	49.230 ug/mL	94
92) Benzo[g,h,i]perylene	20.349	276	5453913	47.309 ug/mL	97

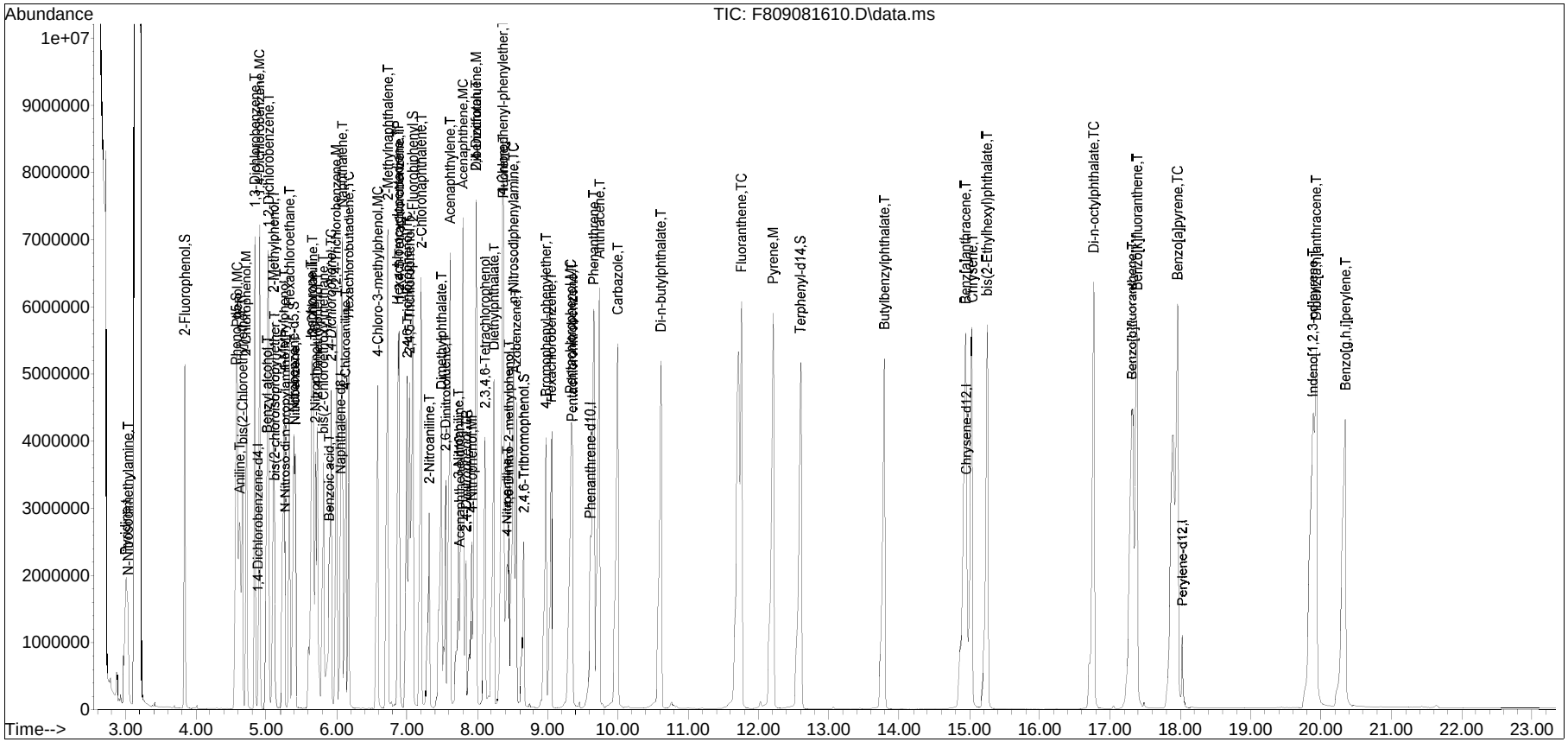
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081610.D
Acq On : 8 Sep 2016 11:29 pm
Operator : BNA8:ML
Sample : I809081608
Misc : WG930406,MSAK69,X2
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 09 16:03:08 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 08:54:51 2016
Response via : Initial Calibration

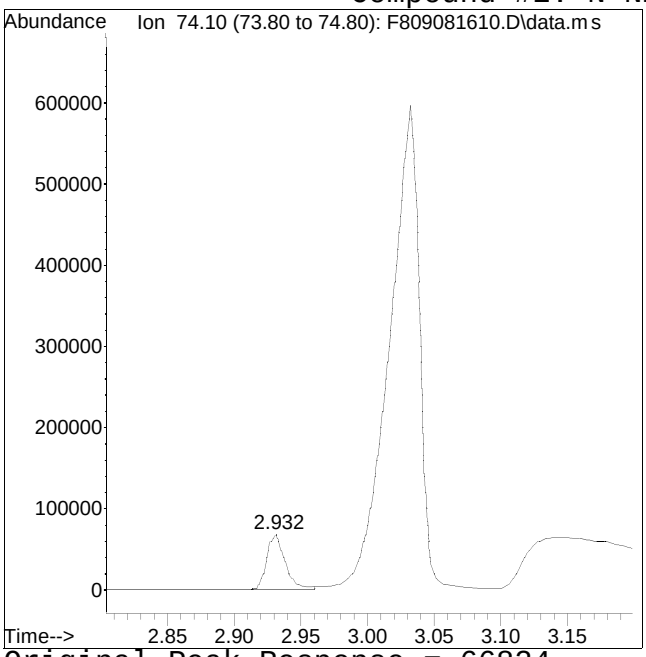
Sub List : Default - All compounds listed

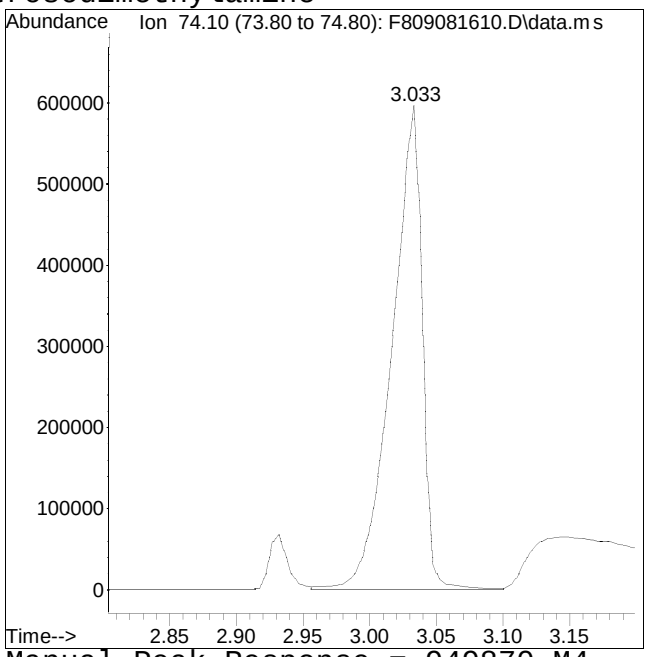


Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #2: N-Nitrosodimethylamine



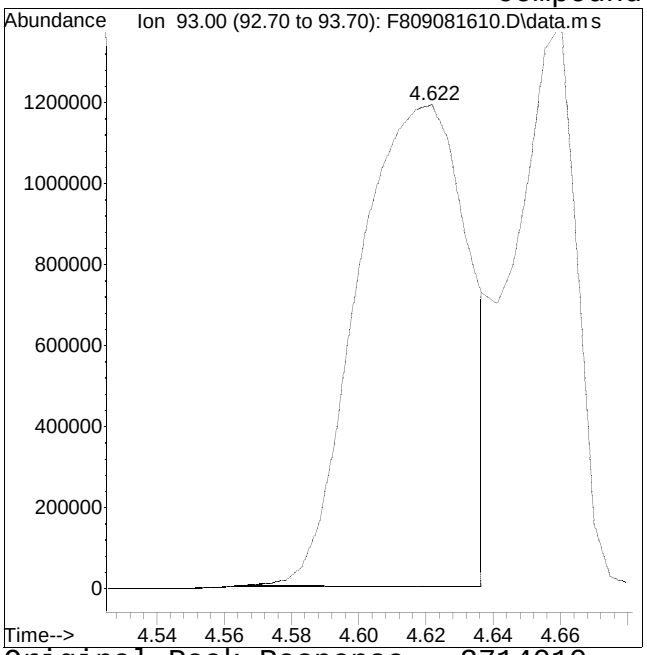


Original Peak Response = 66824 Manual Peak Response = 949870 M4
M4 = Poor automated baseline construction.

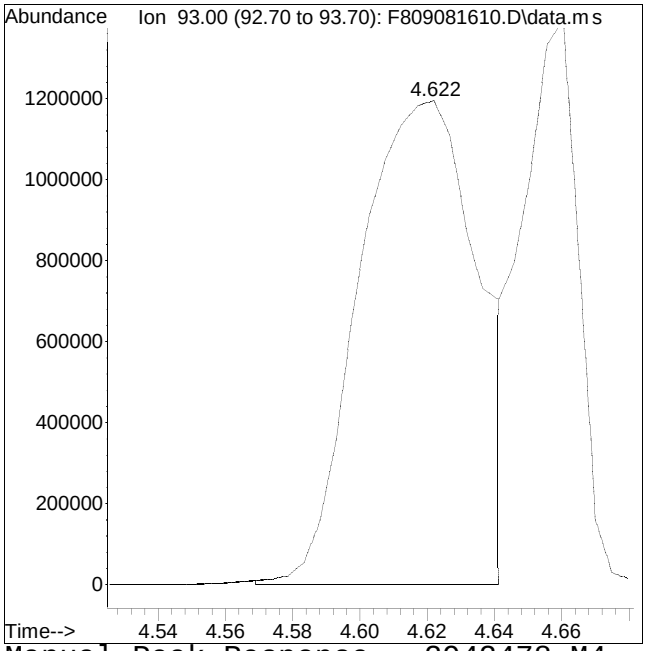
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #6: Aniline



Original Peak Response = 2714010



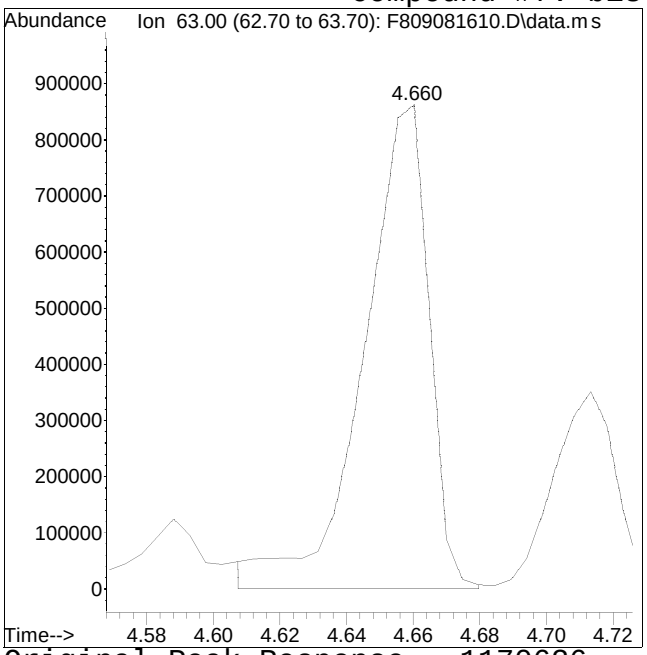
Manual Peak Response = 2942478 M4

M4 = Poor automated baseline construction.

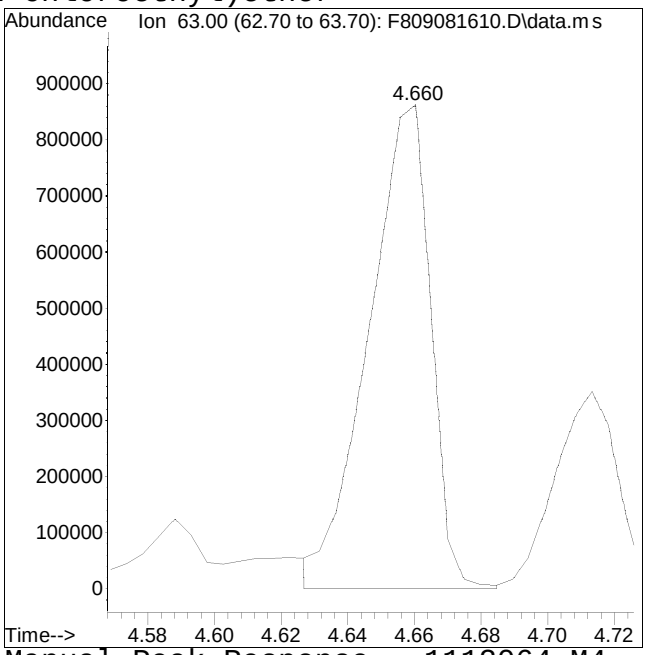
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #7: bis(2-Chloroethyl)ether



Original Peak Response = 1170626



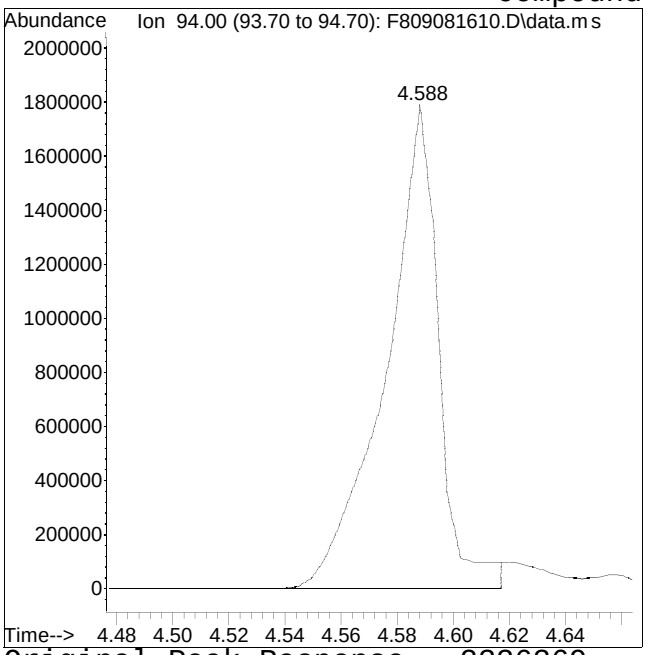
Manual Peak Response = 1112064 M4

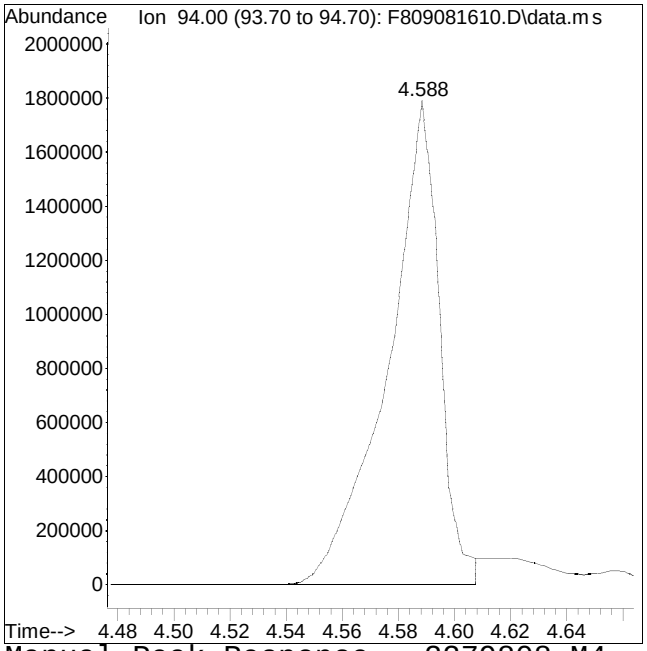
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #9: Phenol



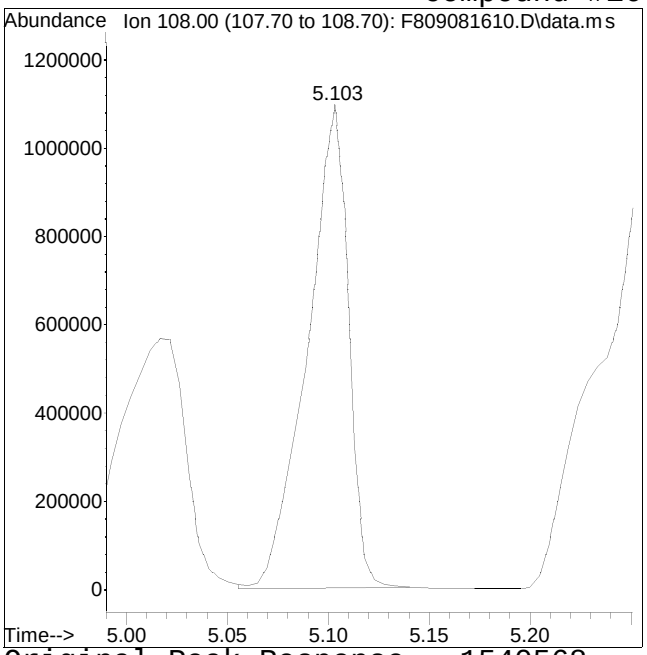


Original Peak Response = 2336369 Manual Peak Response = 2279808 M4
M4 = Poor automated baseline construction.

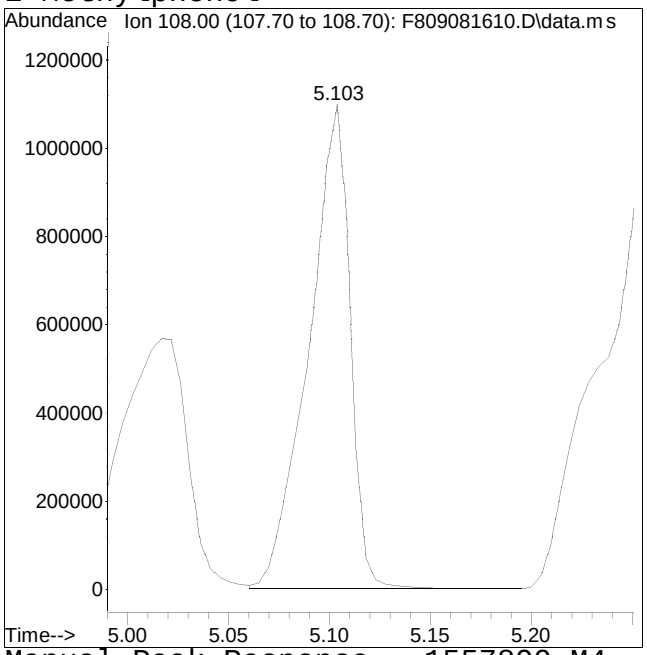
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #16: 2-Methylphenol



Original Peak Response = 1540568



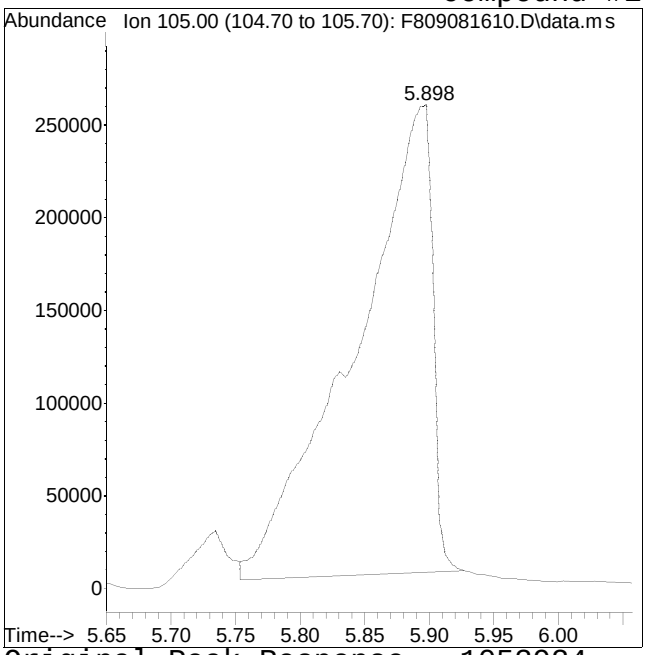
Manual Peak Response = 1557899 M4

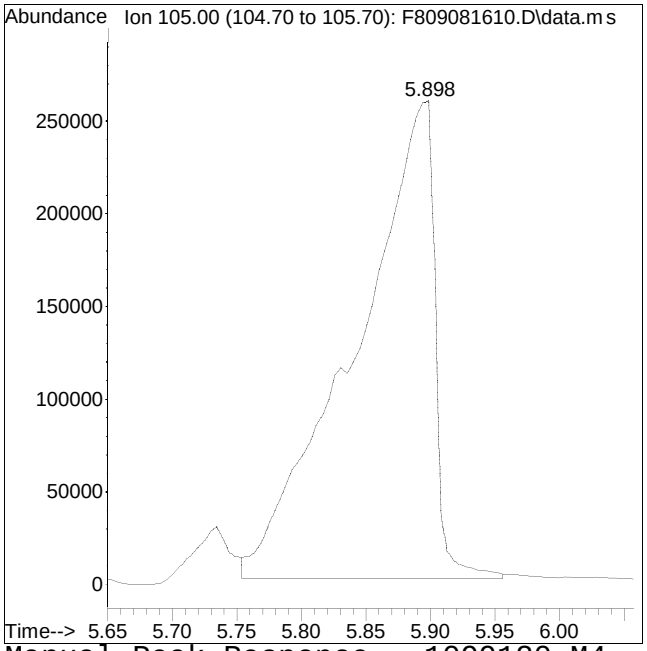
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #27: Benzoic acid



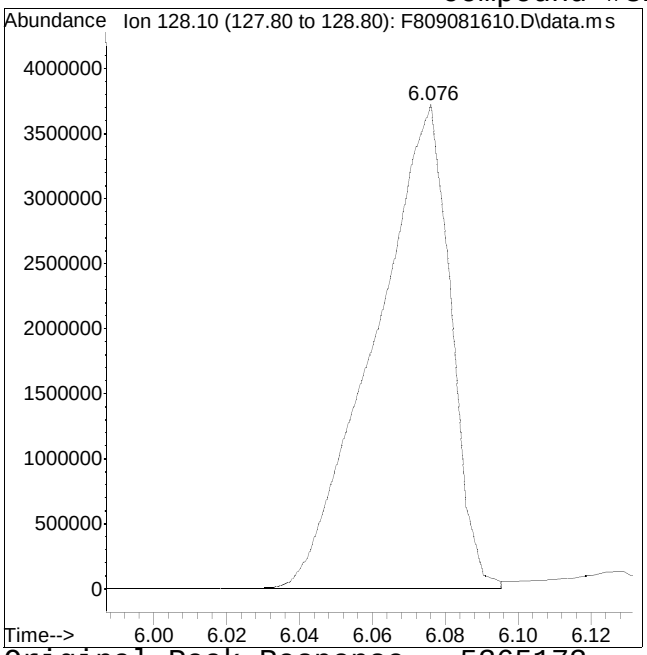


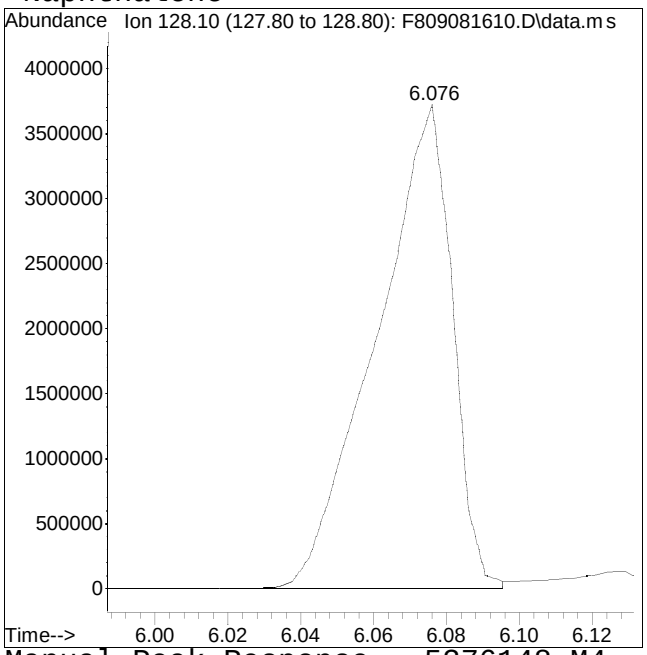
Original Peak Response = 1053924 Manual Peak Response = 1099120 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #31: Naphthalene



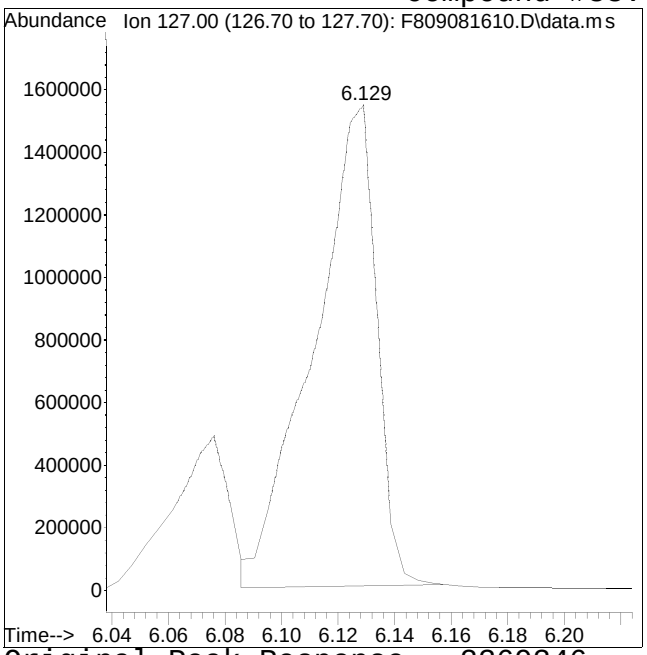


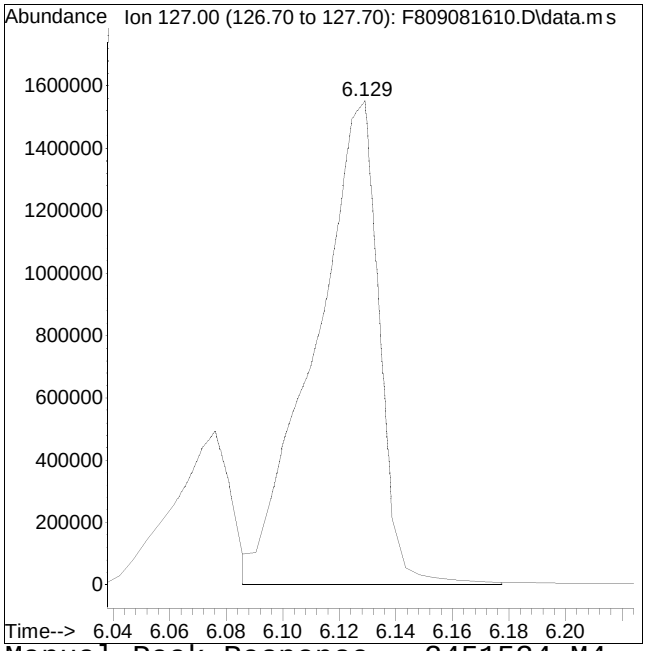
Original Peak Response = 5365173 Manual Peak Response = 5376148 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #33: 4-Chloroaniline



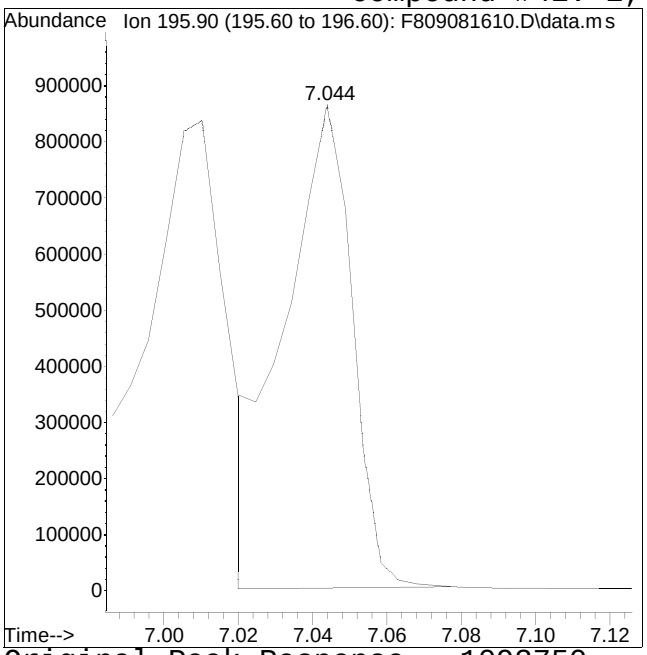


Original Peak Response = 2369346 Manual Peak Response = 2451534 M4
M4 = Poor automated baseline construction.

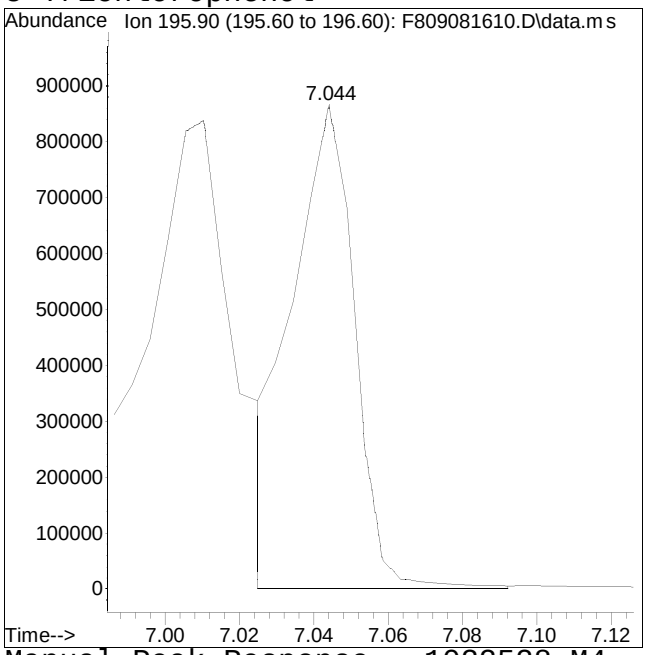
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #42: 2,4,5-Trichlorophenol



Original Peak Response = 1093750



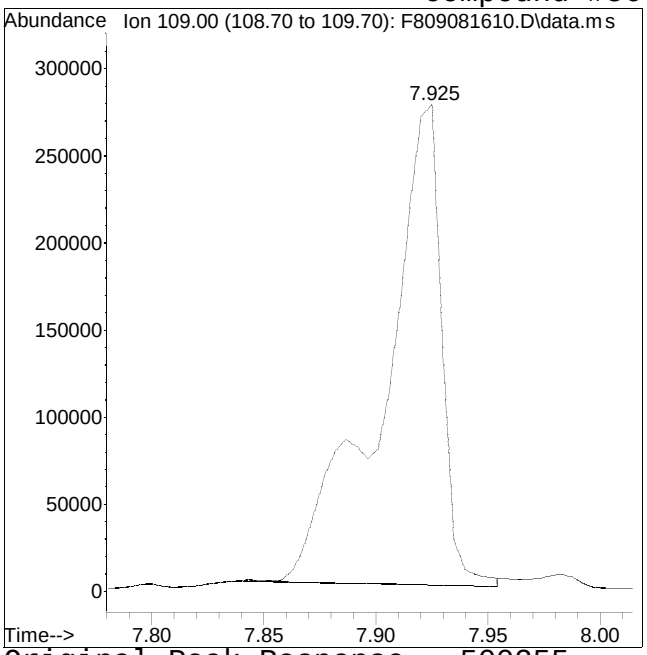
Manual Peak Response = 1022528 M4

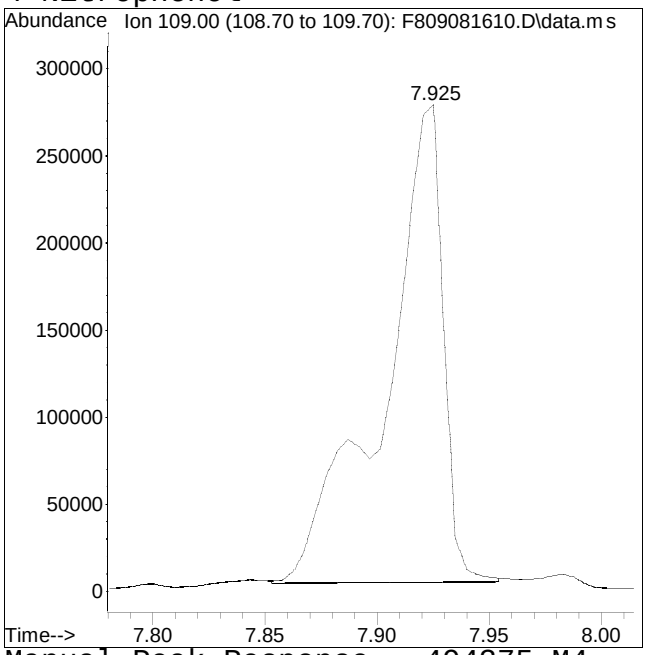
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #56: 4-Nitrophenol



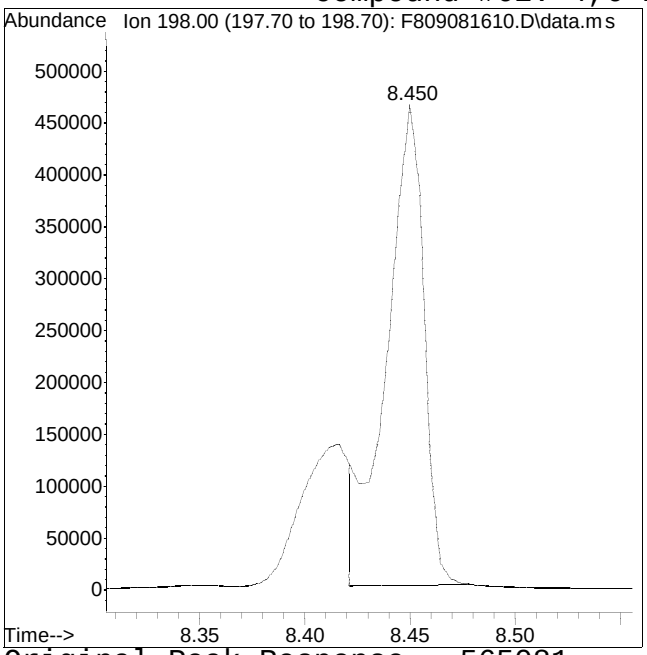


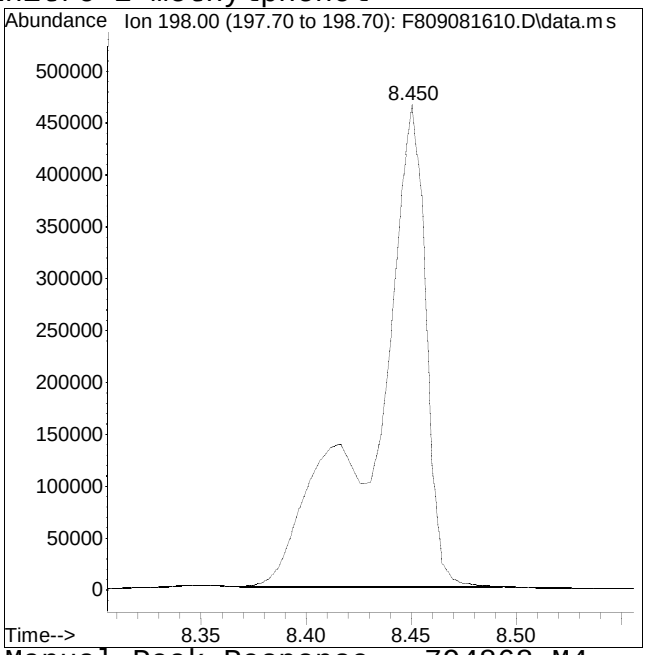
Original Peak Response = 500255 Manual Peak Response = 494375 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #62: 4,6-Dinitro-2-methylphenol



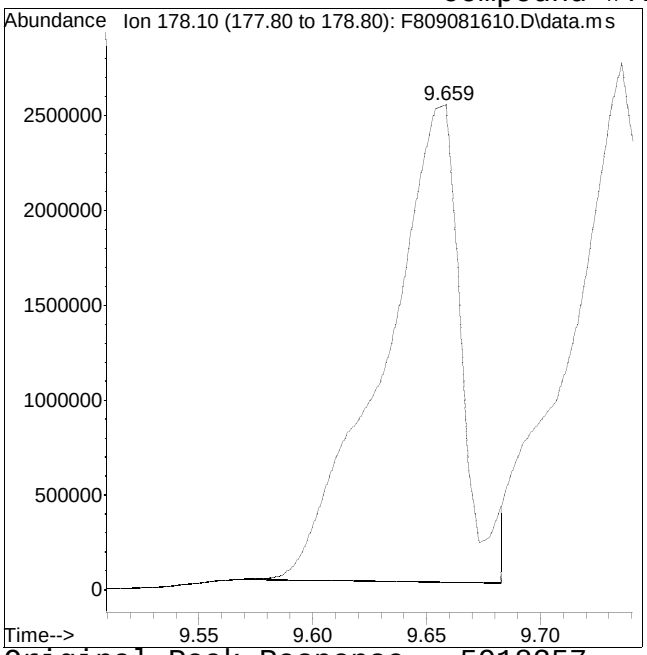


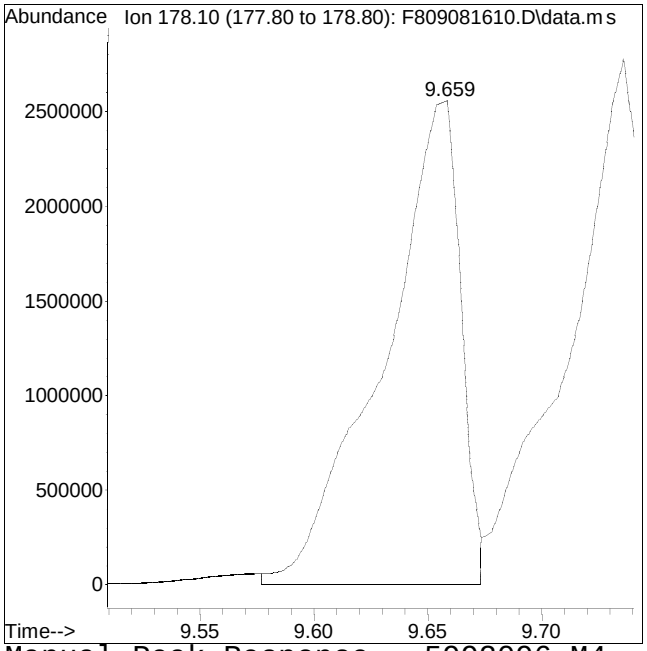
Original Peak Response = 565081 Manual Peak Response = 794868 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #71: Phenanthrene



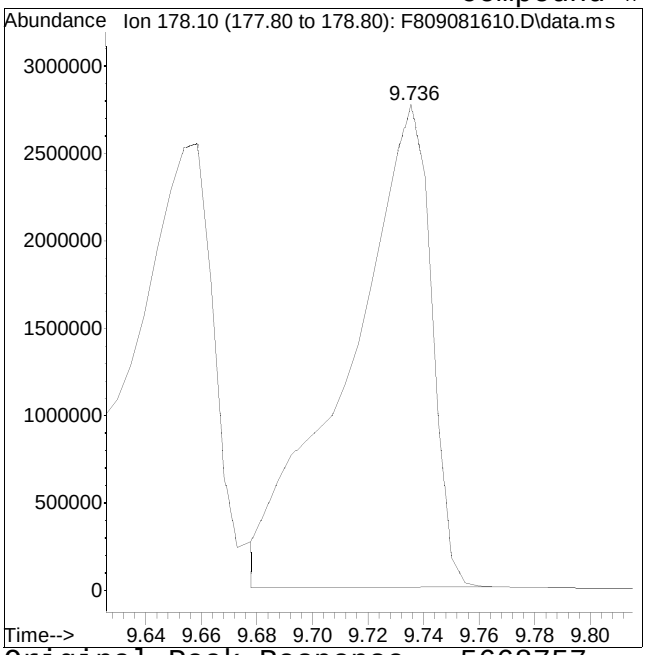


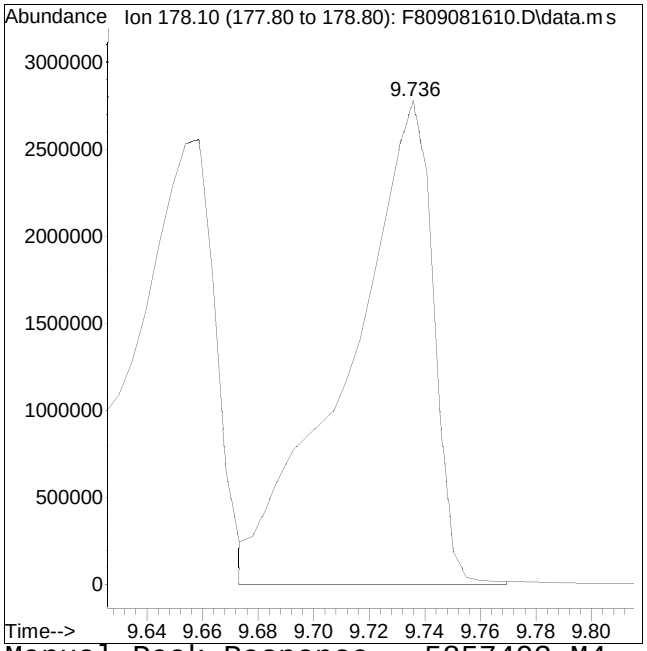
Original Peak Response = 5918257 Manual Peak Response = 5992096 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #72: Anthracene



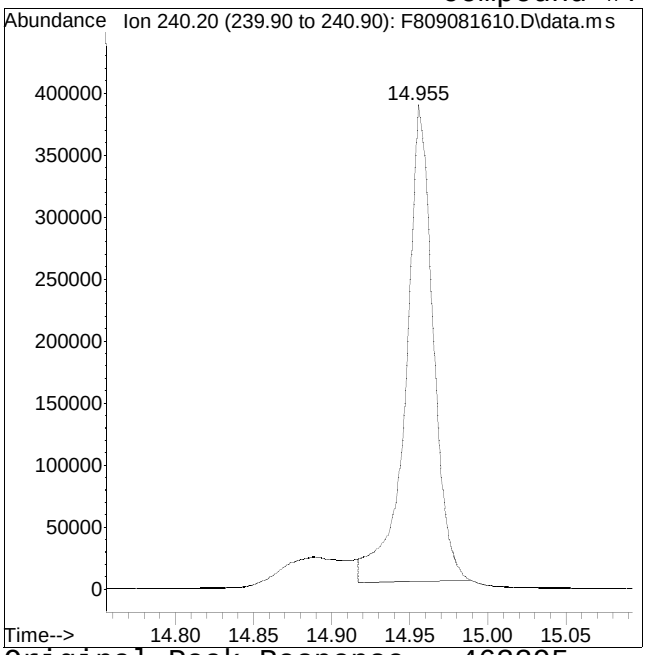


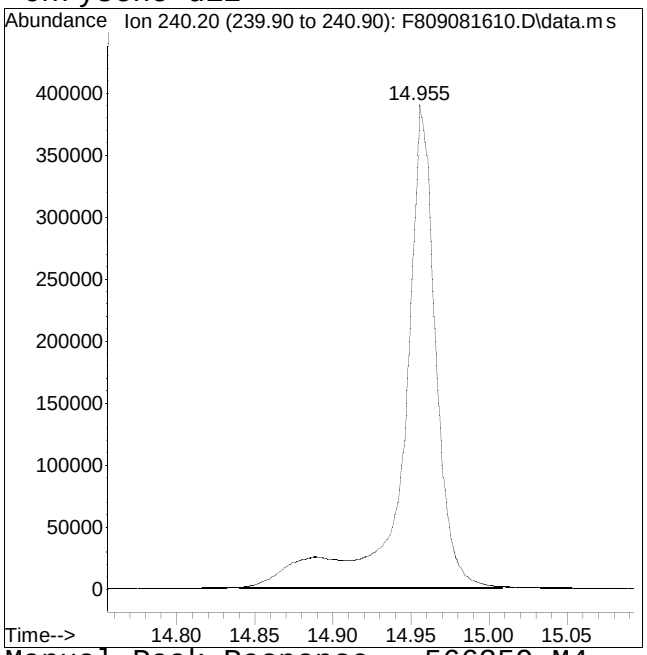
Original Peak Response = 5668757 Manual Peak Response = 5857403 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #76: Chrysene-d12



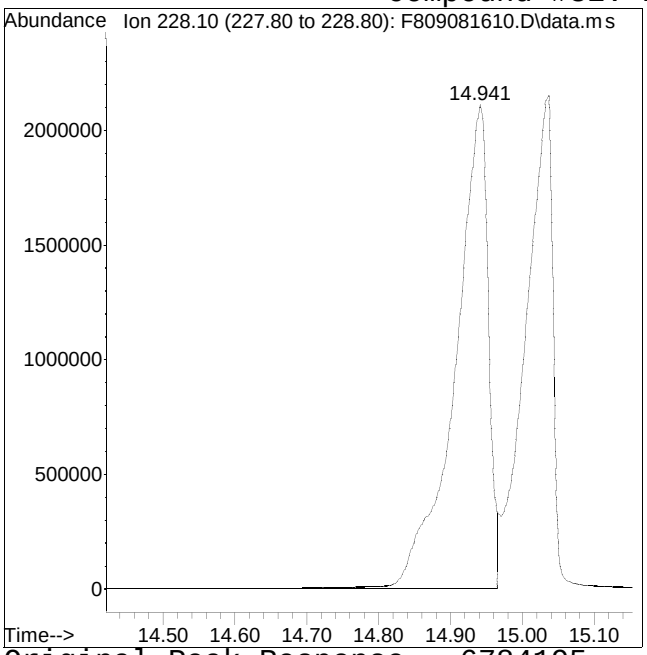


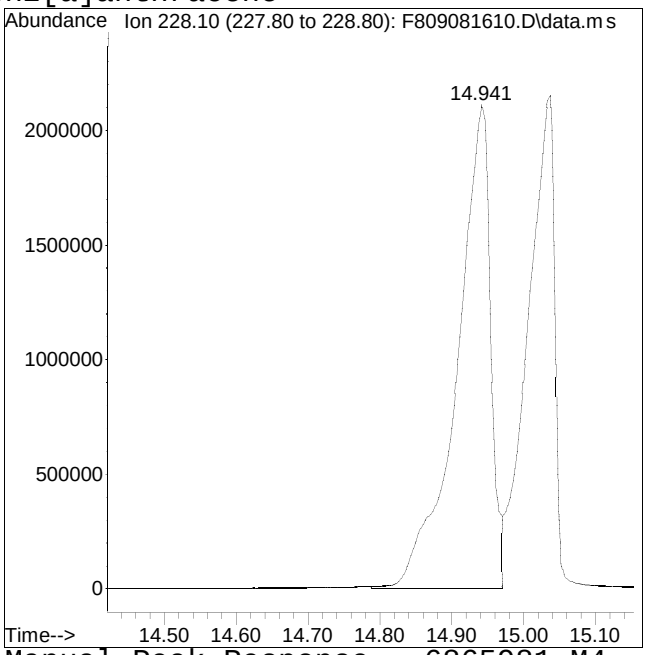
Original Peak Response = 463395 Manual Peak Response = 566359 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #82: Benz[a]anthracene



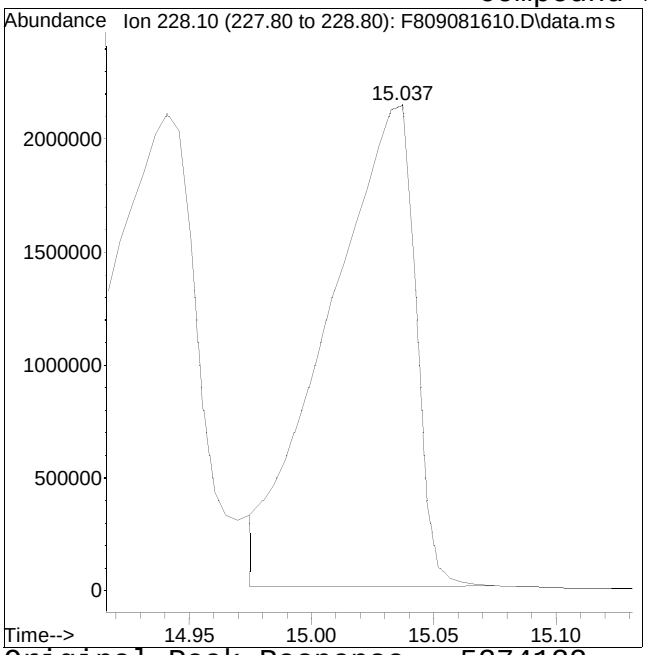


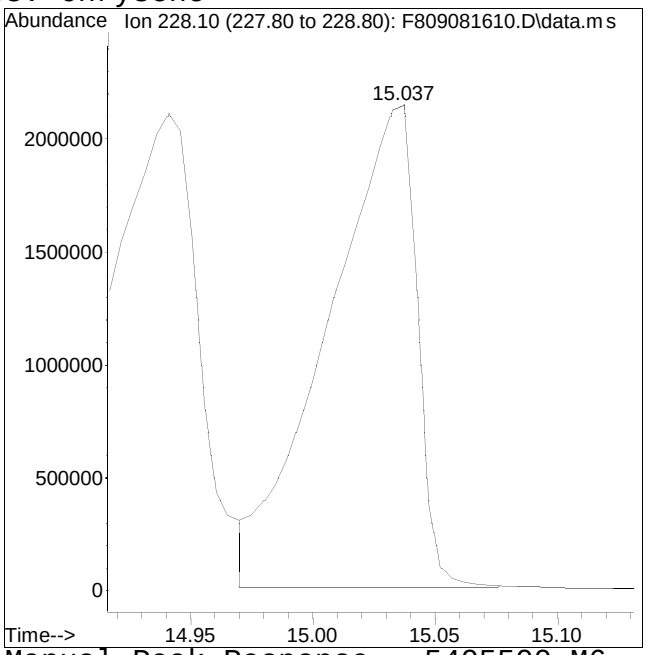
Original Peak Response = 6784195 Manual Peak Response = 6865981 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #83: Chrysene



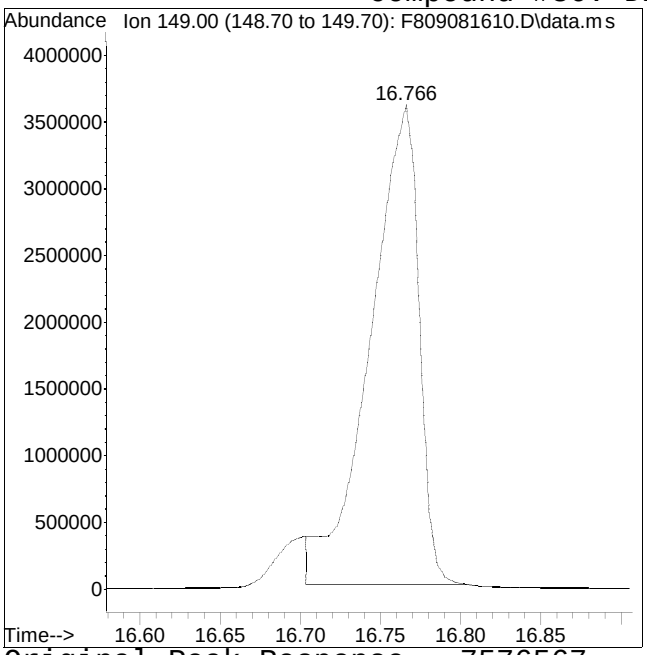


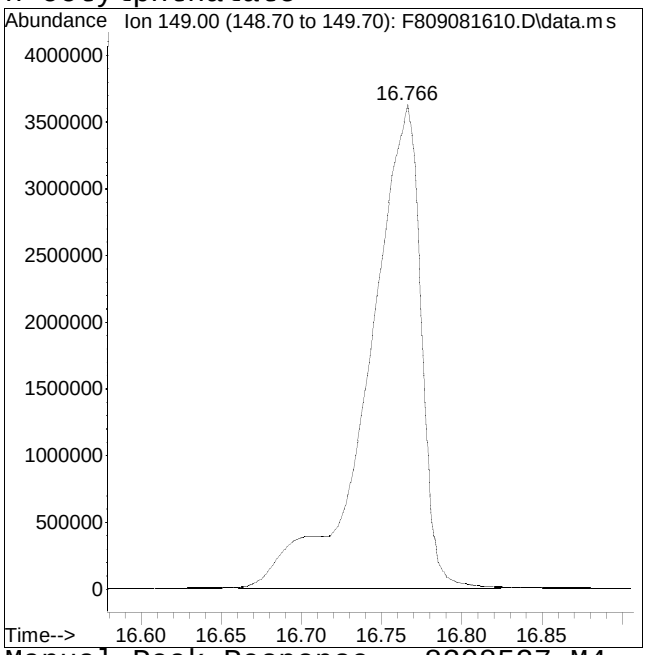
Original Peak Response = 5274122 Manual Peak Response = 5405500 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #86: Di-n-octylphthalate



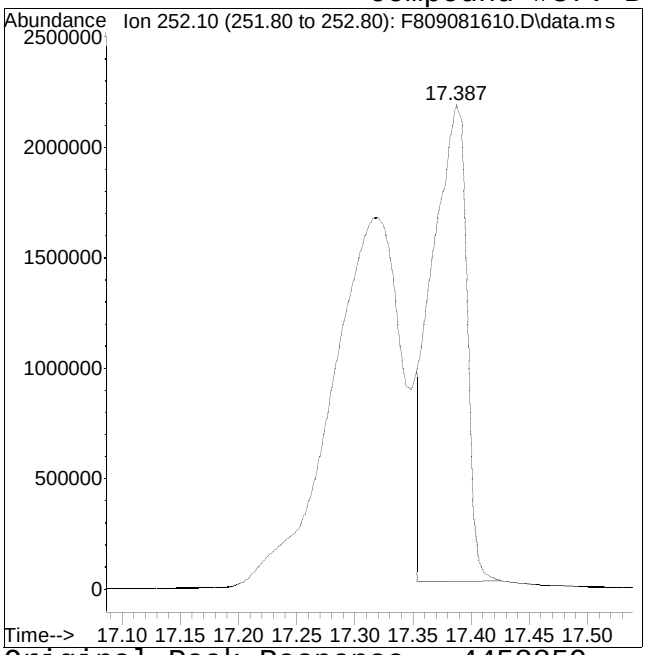


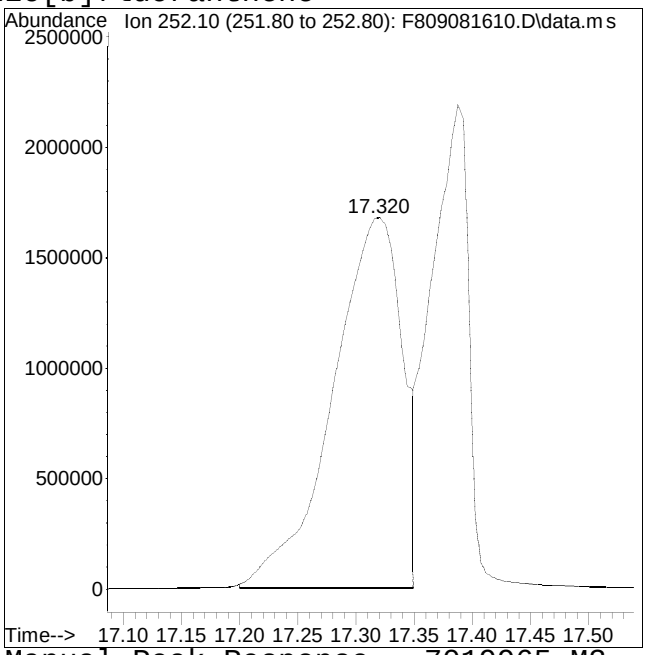
Original Peak Response = 7576567 Manual Peak Response = 8298527 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #87: Benzo[b]fluoranthene



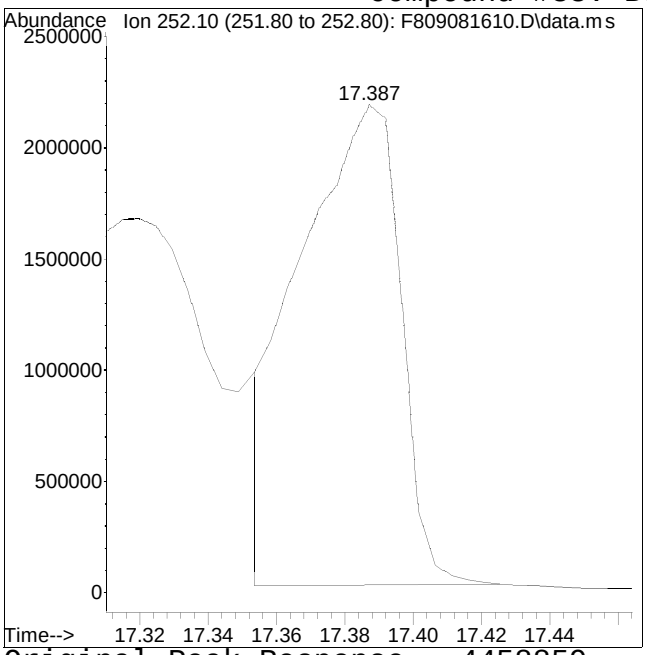


Original Peak Response = 4458859 Manual Peak Response = 7019965 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

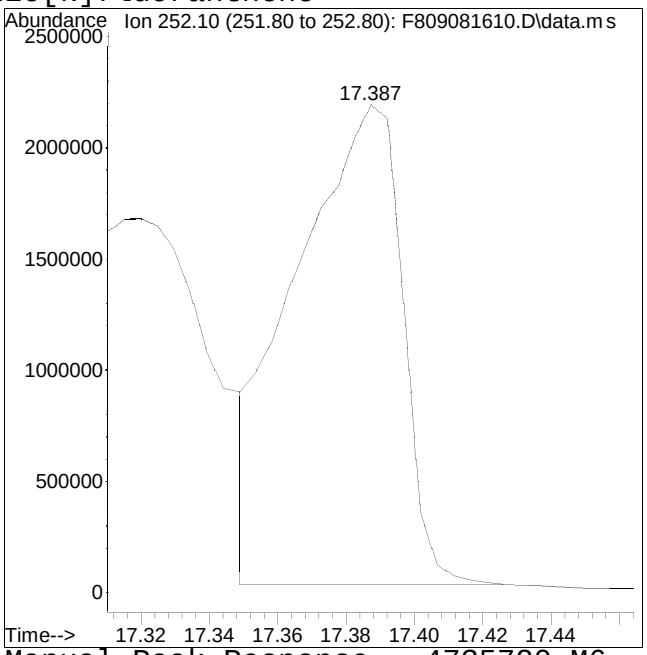
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #88: Benzo[k]fluoranthene



Original Peak Response = 4458859



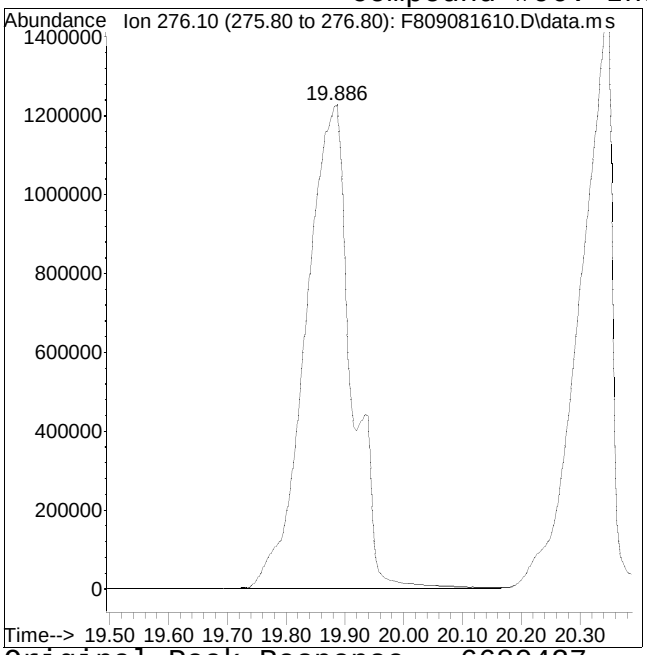
Manual Peak Response = 4735720 M6

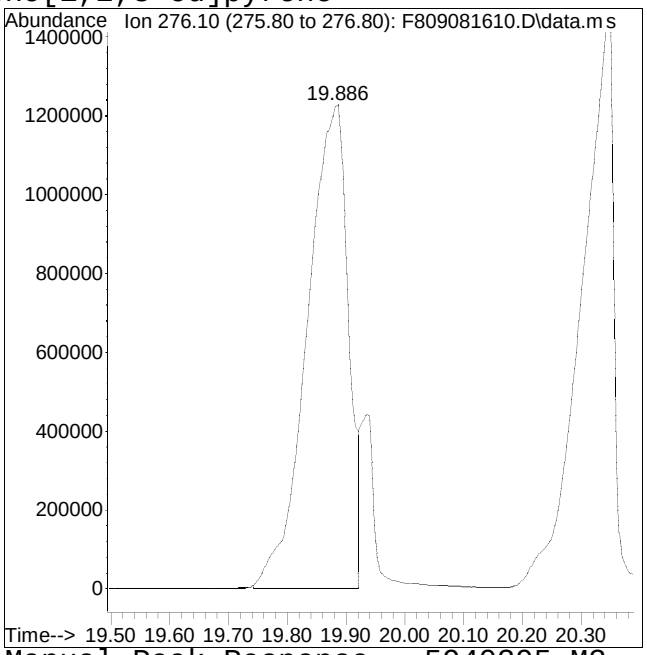
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081610.D Operator : BNA8:ML
Date Inj'd : 9/8/2016 11:29 pm Instrument : BNA8
Sample : I809081608 Quant Date : 9/9/2016 8:54 am

Compound #90: Indeno[1,2,3-cd]pyrene





Original Peak Response = 6680427 Manual Peak Response = 5940395 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081611.D
Acq On : 9 Sep 2016 12:02 am
Operator : BNA8:ML
Sample : I809081609
Misc : WG930406,MSAK62
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 09 09:42:15 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	237643	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	898223	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	480438	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	765347	5.000	ug/mL	0.00
76) Chrysene-d12	14.917	240	716890	5.000	ug/mL	0.00
85) Perylene-d12	17.994	264	617489	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0	0.000	ug/mL	
Spiked Amount 20.000	Range 21 - 100		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 94		Recovery = 0.00%#			
22) Nitrobenzene-d5	0.000	82	0	0.000	ug/mL	
Spiked Amount 20.000	Range 35 - 114		Recovery = 0.00%#			
43) 2-Fluorobiphenyl	0.000	172	0	0.000	ug/mL	
Spiked Amount 20.000	Range 43 - 116		Recovery = 0.00%#			
65) 2,4,6-Tribromophenol	0.000	330	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 123		Recovery = 0.00%#			
79) Terphenyl-d14	0.000	244	0	0.000	ug/mL	
Spiked Amount 20.000	Range 33 - 141		Recovery = 0.00%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	0.000		0	N.D.		
5) Benzaldehyde	4.511	77	21642	0.474	ug/ml	99
6) Aniline	0.000		0	N.D.		
7) bis(2-Chloroethyl)ether	0.000		0	N.D.		
9) Phenol	0.000		0	N.D.		
10) 2-Chlorophenol	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) Benzyl alcohol	0.000		0	N.D. d		
15) bis(2-chloroisopropyl)eth	0.000		0	N.D.		
16) 2-Methylphenol	0.000		0	N.D.		
17) Acetophenone	5.229	105	36967	0.473	ug/ml	99
18) Hexachloroethane	0.000		0	N.D.		
19) N-Nitroso-di-n-propylamin	0.000		0	N.D.		
20) 4-Methylphenol	0.000		0	N.D.		
23) Nitrobenzene	0.000		0	N.D. d		

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081611.D
Acq On : 9 Sep 2016 12:02 am
Operator : BNA8:ML
Sample : I809081609
Misc : WG930406,MSAK62
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 09 09:42:15 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Isophorone	0.000		0	N.D.		
25) 2-Nitrophenol	0.000		0	N.D.		
26) 2,4-Dimethylphenol	0.000		0	N.D.		
27) Benzoic acid	0.000		0	N.D.		
28) bis(2-Chloroethoxy)methan	0.000		0	N.D.		
29) 2,4-Dichlorophenol	0.000		0	N.D.		
30) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
31) Naphthalene	0.000		0	N.D.		
32) 2-Chloroaniline	0.000		0	N.D.		
33) 4-Chloroaniline	0.000		0	N.D.		
34) Hexachlorobutadiene	0.000		0	N.D.		
35) Caprolactam	6.413	113	5733	0.337	ug/ml	88
36) 4-Chloro-3-methylphenol	0.000		0	N.D.		
37) 2-Methylnaphthalene	0.000		0	N.D.		
39) 1,2,4,5-Tetrachlorobenzen	0.000		0	N.D.		
40) Hexachlorocyclopentadiene	0.000		0	N.D.		
41) 2,4,6-Trichlorophenol	0.000		0	N.D.		
42) 2,4,5-Trichlorophenol	0.000		0	N.D.		
44) Biphenyl	7.174	154	68560	0.494	ug/ml	99
45) 2-Chloronaphthalene	0.000		0	N.D.		
46) 2-Nitroaniline	0.000		0	N.D.		
47) Acenaphthylene	0.000		0	N.D.		
48) Dimethylphthalate	0.000		0	N.D.		
49) 2,6-Dinitrotoluene	0.000		0	N.D.		
50) Acenaphthene	0.000		0	N.D.		
51) 3-Nitroaniline	0.000		0	N.D. d		
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) Dibenzofuran	0.000		0	N.D.		
54) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
55) 2,4-Dinitrotoluene	0.000		0	N.D.		
56) 4-Nitrophenol	0.000		0	N.D.		
57) Fluorene	0.000		0	N.D.		
58) 4-Chlorophenyl-phenylethe	0.000		0	N.D.		
59) Diethylphthalate	0.000		0	N.D.		
60) 4-Nitroaniline	0.000		0	N.D.		
62) 4,6-Dinitro-2-methylpheno	0.000		0	N.D.		
63) Azobenzene	0.000		0	N.D.		
64) n-Nitrosodiphenylamine	0.000		0	N.D.		
66) 4-Bromophenyl-phenylether	0.000		0	N.D.		
67) Hexachlorobenzene	0.000		0	N.D.		
68) Atrazine	9.187	200	13409	0.421	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081611.D
Acq On : 9 Sep 2016 12:02 am
Operator : BNA8:ML
Sample : I809081609
Misc : WG930406,MSAK62
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 09 09:42:15 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Pentachlorophenol	0.000		0	N.D.		
70) Pentachloronitrobenzene	0.000		0	N.D.		
71) Phenanthrene	0.000		0	N.D.		
72) Anthracene	0.000		0	N.D.		
73) Carbazole	0.000		0	N.D.		
74) Di-n-butylphthalate	0.000		0	N.D.		
75) Fluoranthene	0.000		0	N.D.		
77) Benzidine	12.057	184	34010	0.266	ug/mL	95
78) Pyrene	0.000		0	N.D.		
80) Butylbenzylphthalate	0.000		0	N.D.		
81) 3,3'-Dichlorobenzidine	14.927	252	24151	0.401	ug/mL#	95
82) Benz[a]anthracene	0.000		0	N.D. d		
83) Chrysene	0.000		0	N.D. d		
84) bis(2-Ethylhexyl)phthalat	0.000		0	N.D.		
86) Di-n-octylphthalate	0.000		0	N.D.		
87) Benzo[b]fluoranthene	0.000		0	N.D.		
88) Benzo[k]fluoranthene	0.000		0	N.D.		
89) Benzo[a]pyrene	0.000		0	N.D. d		
90) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
91) Dibenz[a,h]anthracene	0.000		0	N.D.		
92) Benzo[g,h,i]perylene	0.000		0	N.D.		

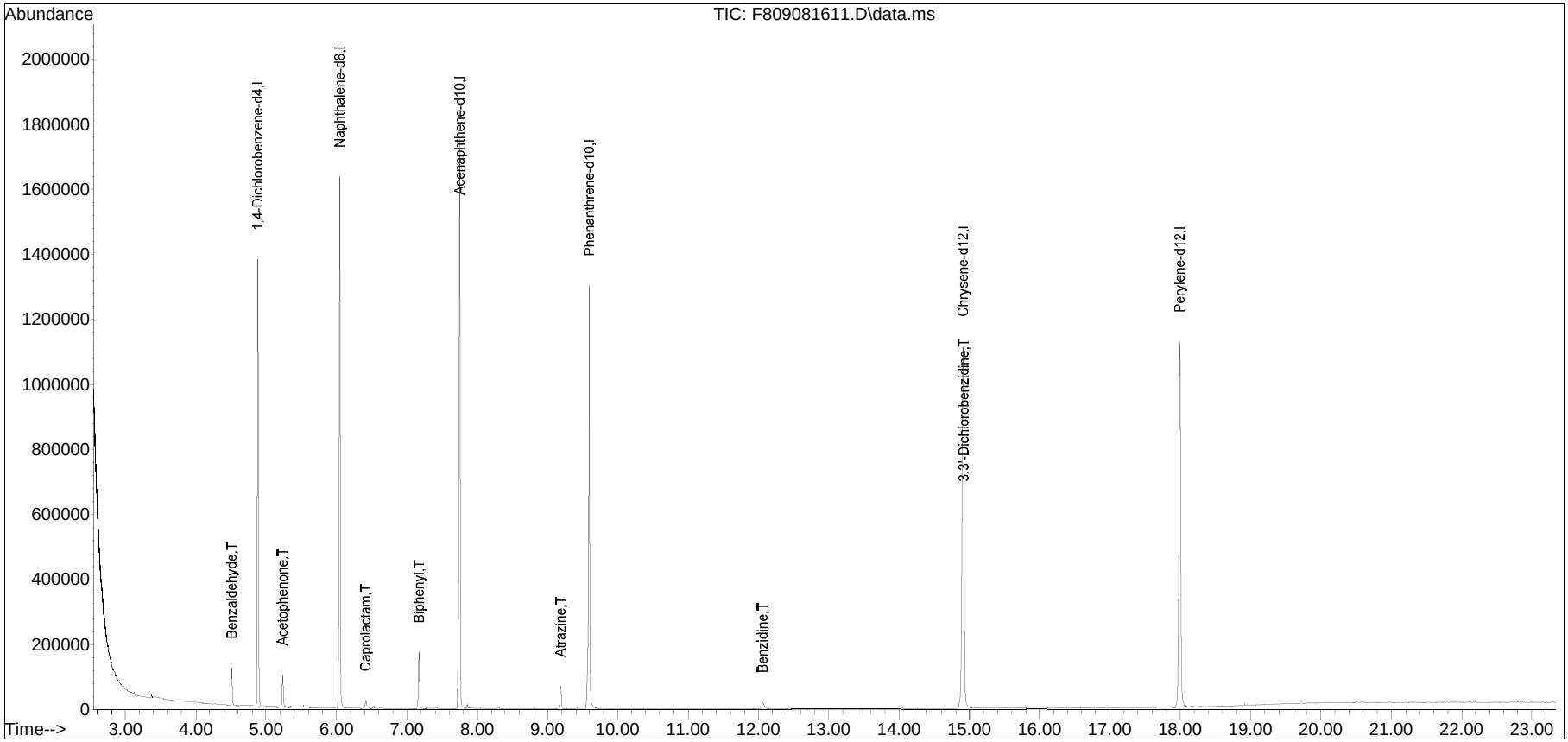
(#) = qualifier out of range (m) = manual integration (+) = signals summed

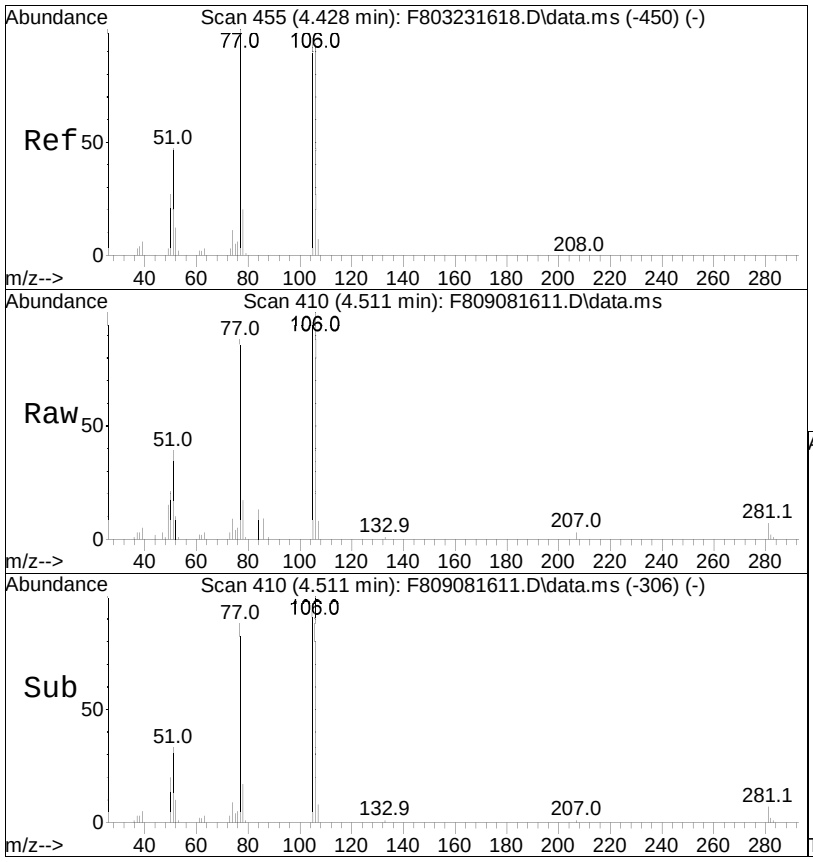
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081611.D
Acq On : 9 Sep 2016 12:02 am
Operator : BNA8:ML
Sample : I809081609
Misc : WG930406,MSAK62
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 09 09:42:15 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

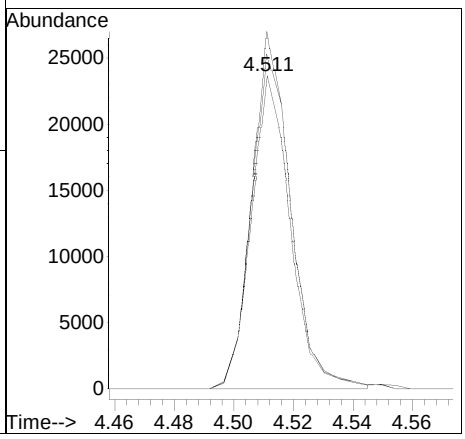


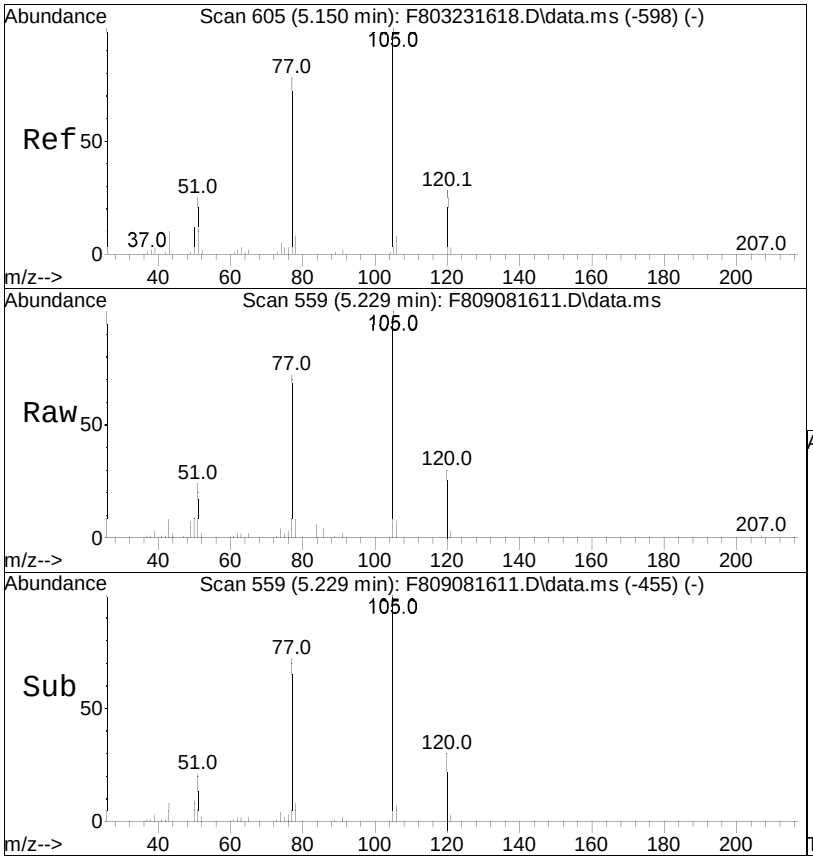


#5
Benzaldehyde
Concen: 0.47 ug/ml
RT: 4.511 min Scan# 410
Delta R.T. -0.000 min
Lab File: F809081611.D
Acq: 9 Sep 2016 12:02 am

Tgt Ion: 77 Resp: 21642

Ion	Ratio	Lower	Upper
77	100		
105	109.3	88.1	132.1
106	111.9	89.8	134.8

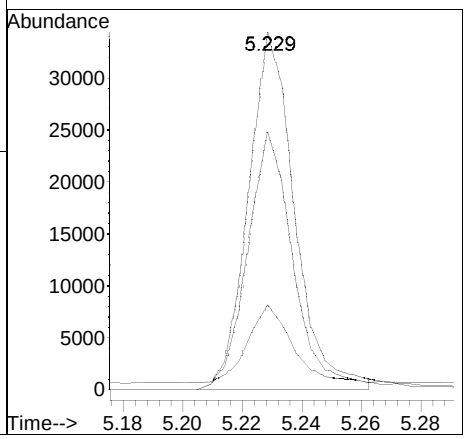


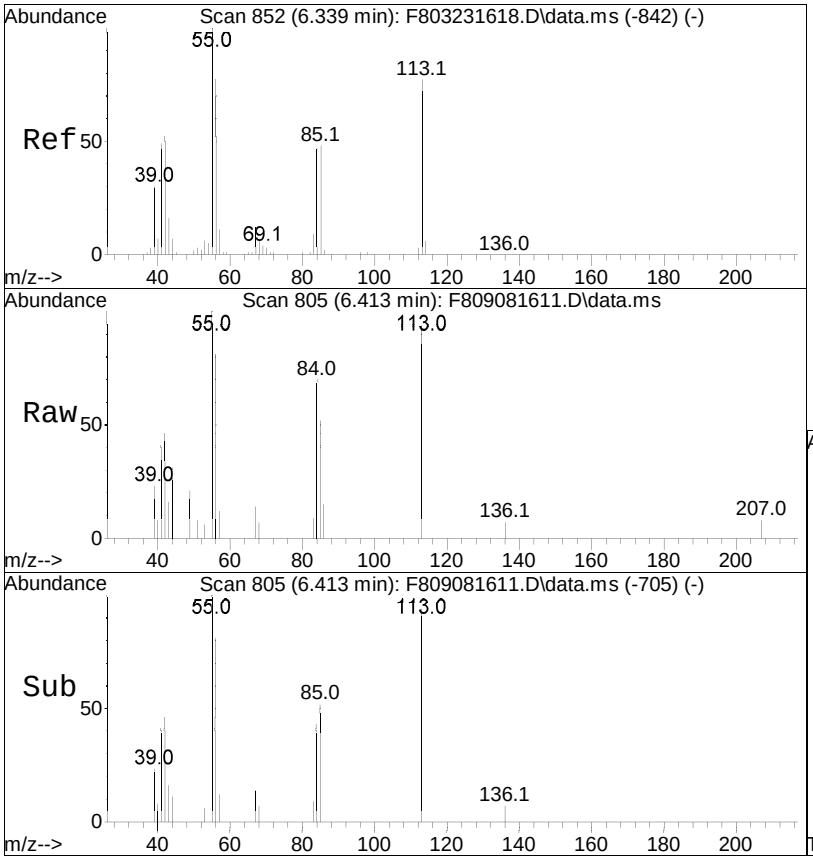


#17
Acetophenone
Concen: 0.47 ug/ml
RT: 5.229 min Scan# 559
Delta R.T. -0.000 min
Lab File: F809081611.D
Acq: 9 Sep 2016 12:02 am

Tgt Ion:105 Resp: 36967

Ion	Ratio	Lower	Upper
105	100		
77	71.2	57.7	86.5
51	20.5	17.1	25.7

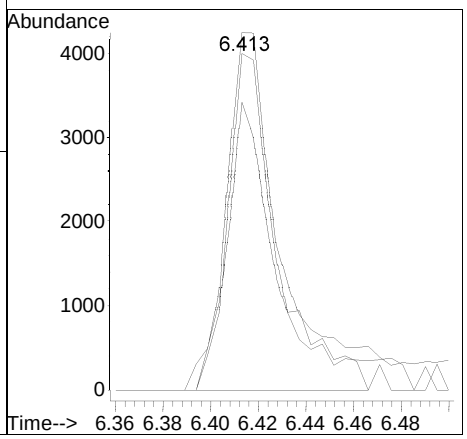


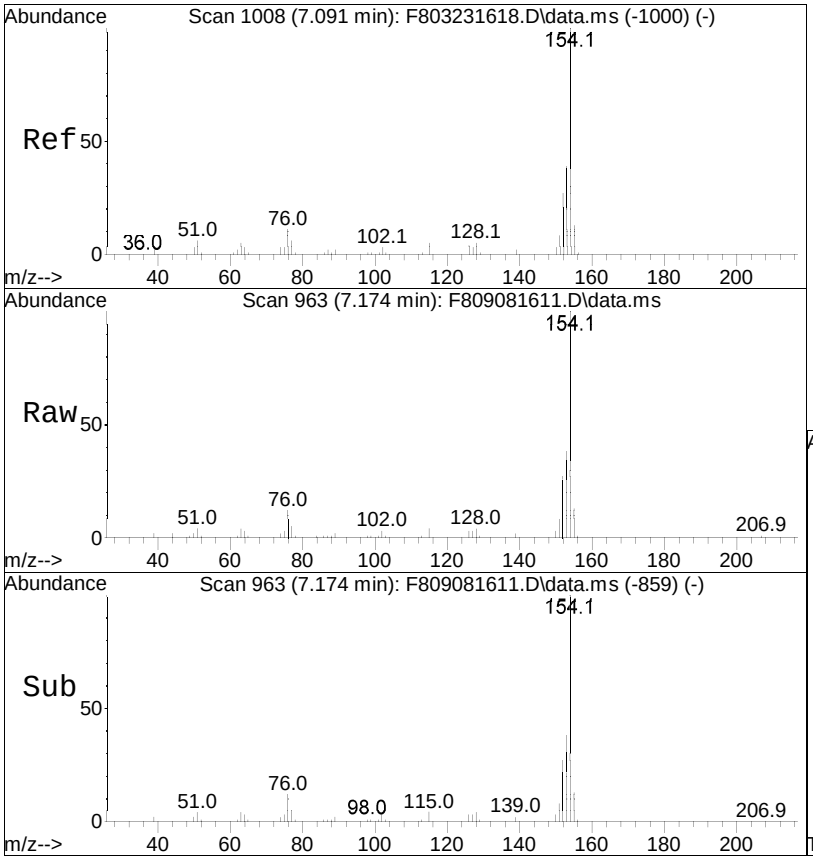


#35
Caprolactam
Concen: 0.34 ug/ml
RT: 6.413 min Scan# 805
Delta R.T. -0.019 min
Lab File: F809081611.D
Acq: 9 Sep 2016 12:02 am

Tgt Ion:113 Resp: 5733

Ion	Ratio	Lower	Upper
113	100		
55	122.9	82.6	123.8
56	81.7	63.0	94.6

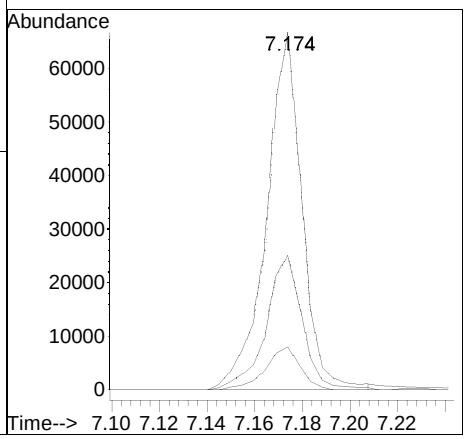


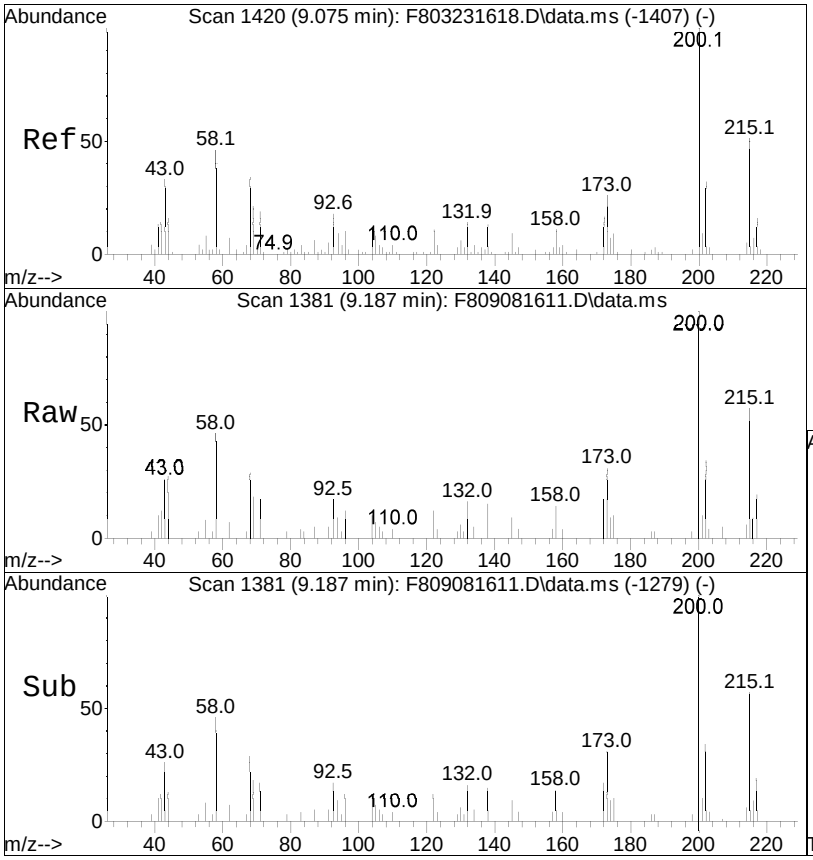


#44
Biphenyl
Concen: 0.49 ug/ml
RT: 7.174 min Scan# 963
Delta R.T. -0.000 min
Lab File: F809081611.D
Acq: 9 Sep 2016 12:02 am

Tgt Ion:154 Resp: 68560

Ion	Ratio	Lower	Upper
154	100		
153	38.7	31.4	47.0
76	12.0	9.8	14.6

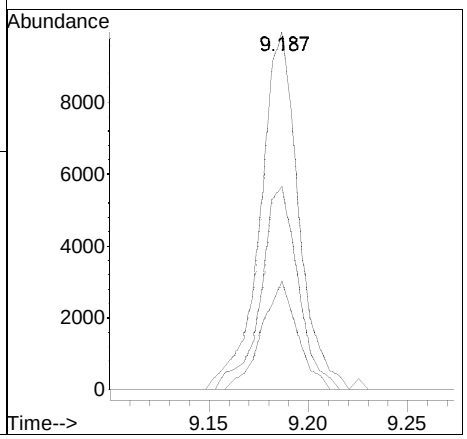


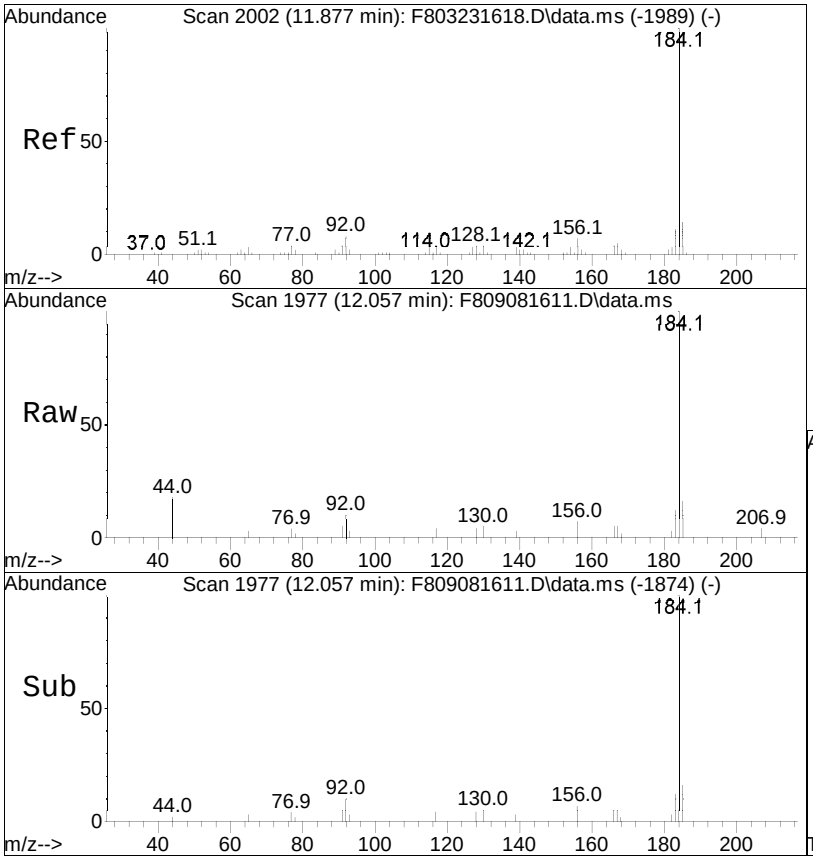


#68
Atrazine
Concen: 0.42 ug/ml
RT: 9.187 min Scan# 1381
Delta R.T. -0.010 min
Lab File: F809081611.D
Acq: 9 Sep 2016 12:02 am

Tgt Ion:200 Resp: 13409

Ion	Ratio	Lower	Upper
200	100		
173	28.4	22.4	33.6
215	55.0	43.8	65.6

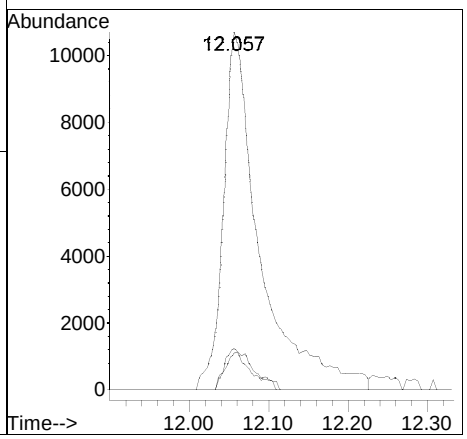


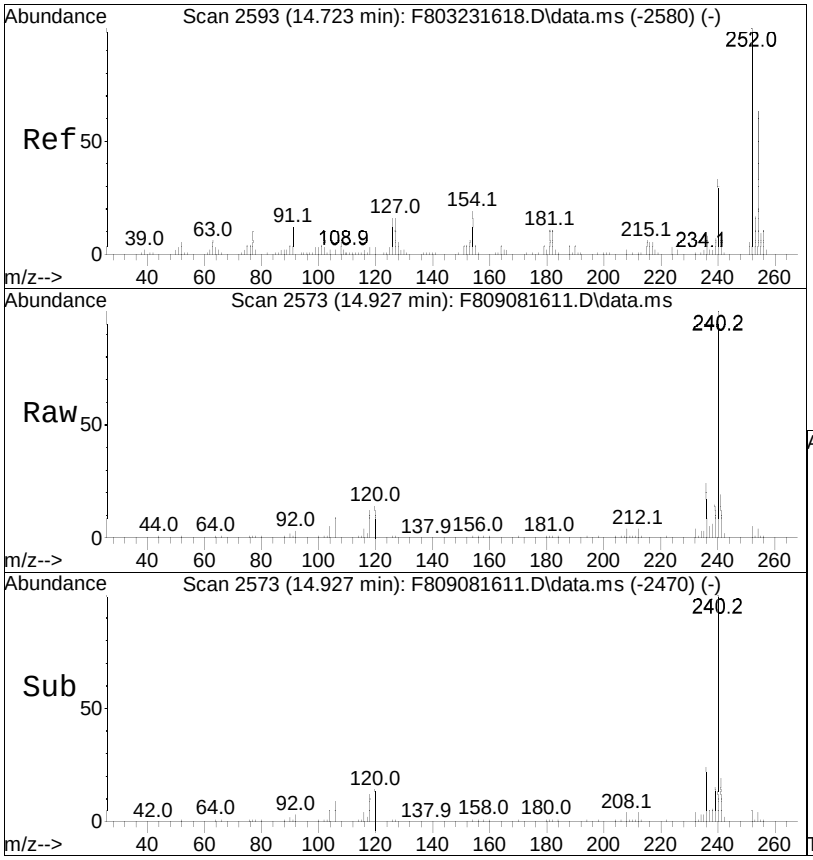


#77
Benzidine
Concen: 0.27 ug/mL
RT: 12.057 min Scan# 1977
Delta R.T. -0.005 min
Lab File: F809081611.D
Acq: 9 Sep 2016 12:02 am

Tgt Ion:184 Resp: 34010

Ion	Ratio	Lower	Upper
184	100		
183	9.0	9.0	13.4
92	7.9	7.4	11.2

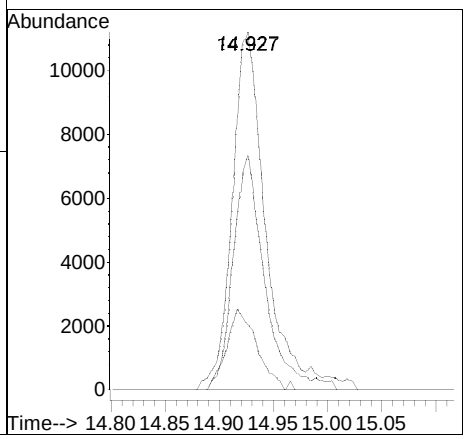




#81
3,3'-Dichlorobenzidine
Concen: 0.40 ug/mL
RT: 14.927 min Scan# 2573
Delta R.T. -0.005 min
Lab File: F809081611.D
Acq: 9 Sep 2016 12:02 am

Tgt Ion:252 Resp: 24151

Ion	Ratio	Lower	Upper
252	100		
254	61.6	52.0	78.0
126	20.7	13.6	20.4#



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\BNA8\2016\	QMethod	: SV0908BNA8.M
Data File	: F809081611.D	Operator	: BNA8:ML
Date Inj'd	: 9/9/2016 12:02 am	Instrument	: BNA8
Sample	: I809081609	Quant Date	: 9/9/2016 7:48 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081612.D
Acq On : 9 Sep 2016 12:35 am
Operator : BNA8:ML
Sample : I809081610
Misc : WG930406,MSAK61
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 09 09:43:30 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	246819	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	920838	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	497715	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	780366	5.000	ug/mL	0.00
76) Chrysene-d12	14.917	240	733195	5.000	ug/mL	0.00
85) Perylene-d12	17.999	264	655004	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0	0.000	ug/mL	
Spiked Amount 20.000	Range 21 - 100		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 94		Recovery = 0.00%#			
22) Nitrobenzene-d5	0.000	82	0	0.000	ug/mL	
Spiked Amount 20.000	Range 35 - 114		Recovery = 0.00%#			
43) 2-Fluorobiphenyl	0.000	172	0	0.000	ug/mL	
Spiked Amount 20.000	Range 43 - 116		Recovery = 0.00%#			
65) 2,4,6-Tribromophenol	0.000	330	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 123		Recovery = 0.00%#			
79) Terphenyl-d14	0.000	244	0	0.000	ug/mL	
Spiked Amount 20.000	Range 33 - 141		Recovery = 0.00%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	0.000		0	N.D.		
5) Benzaldehyde	4.511	77	47761	1.006	ug/ml	99
6) Aniline	0.000		0	N.D.		
7) bis(2-Chloroethyl)ether	0.000		0	N.D.		
9) Phenol	0.000		0	N.D.		
10) 2-Chlorophenol	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) Benzyl alcohol	0.000		0	N.D.		
15) bis(2-chloroisopropyl)eth	0.000		0	N.D.		
16) 2-Methylphenol	0.000		0	N.D.		
17) Acetophenone	5.229	105	79351	0.979	ug/ml	99
18) Hexachloroethane	0.000		0	N.D.		
19) N-Nitroso-di-n-propylamin	0.000		0	N.D.		
20) 4-Methylphenol	0.000		0	N.D.		
23) Nitrobenzene	0.000		0	N.D. d		

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081612.D
Acq On : 9 Sep 2016 12:35 am
Operator : BNA8:ML
Sample : I809081610
Misc : WG930406,MSAK61
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 09 09:43:30 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Isophorone	0.000		0	N.D.		
25) 2-Nitrophenol	0.000		0	N.D.		
26) 2,4-Dimethylphenol	0.000		0	N.D.		
27) Benzoic acid	0.000		0	N.D.		
28) bis(2-Chloroethoxy)methan	0.000		0	N.D.		
29) 2,4-Dichlorophenol	0.000		0	N.D.		
30) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
31) Naphthalene	0.000		0	N.D.		
32) 2-Chloroaniline	0.000		0	N.D.		
33) 4-Chloroaniline	0.000		0	N.D.		
34) Hexachlorobutadiene	0.000		0	N.D.		
35) Caprolactam	6.413	113	13853	0.794	ug/ml	86
36) 4-Chloro-3-methylphenol	0.000		0	N.D.		
37) 2-Methylnaphthalene	0.000		0	N.D.		
39) 1,2,4,5-Tetrachlorobenzen	0.000		0	N.D.		
40) Hexachlorocyclopentadiene	0.000		0	N.D.		
41) 2,4,6-Trichlorophenol	0.000		0	N.D.		
42) 2,4,5-Trichlorophenol	0.000		0	N.D.		
44) Biphenyl	7.174	154	147734	1.028	ug/ml	100
45) 2-Chloronaphthalene	0.000		0	N.D.		
46) 2-Nitroaniline	0.000		0	N.D. d		
47) Acenaphthylene	0.000		0	N.D.		
48) Dimethylphthalate	0.000		0	N.D.		
49) 2,6-Dinitrotoluene	0.000		0	N.D.		
50) Acenaphthene	0.000		0	N.D.		
51) 3-Nitroaniline	0.000		0	N.D. d		
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) Dibenzofuran	0.000		0	N.D.		
54) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
55) 2,4-Dinitrotoluene	0.000		0	N.D.		
56) 4-Nitrophenol	0.000		0	N.D.		
57) Fluorene	0.000		0	N.D.		
58) 4-Chlorophenyl-phenylethe	0.000		0	N.D.		
59) Diethylphthalate	0.000		0	N.D.		
60) 4-Nitroaniline	0.000		0	N.D.		
62) 4,6-Dinitro-2-methylpheno	0.000		0	N.D.		
63) Azobenzene	0.000		0	N.D.		
64) n-Nitrosodiphenylamine	0.000		0	N.D.		
66) 4-Bromophenyl-phenylether	0.000		0	N.D.		
67) Hexachlorobenzene	0.000		0	N.D.		
68) Atrazine	9.187	200	29746	0.916	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081612.D
Acq On : 9 Sep 2016 12:35 am
Operator : BNA8:ML
Sample : I809081610
Misc : WG930406,MSAK61
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 09 09:43:30 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Pentachlorophenol	0.000		0	N.D.		
70) Pentachloronitrobenzene	0.000		0	N.D.		
71) Phenanthrene	0.000		0	N.D.		
72) Anthracene	0.000		0	N.D.		
73) Carbazole	0.000		0	N.D.		
74) Di-n-butylphthalate	0.000		0	N.D.		
75) Fluoranthene	0.000		0	N.D.		
77) Benzidine	12.057	184	90118	0.689	ug/mL	97
78) Pyrene	0.000		0	N.D.		
80) Butylbenzylphthalate	0.000		0	N.D.		
81) 3,3'-Dichlorobenzidine	14.922	252	53916	0.875	ug/mL	97
82) Benz[a]anthracene	0.000		0	N.D. d		
83) Chrysene	0.000		0	N.D. d		
84) bis(2-Ethylhexyl)phthalat	0.000		0	N.D.		
86) Di-n-octylphthalate	0.000		0	N.D.		
87) Benzo[b]fluoranthene	0.000		0	N.D.		
88) Benzo[k]fluoranthene	0.000		0	N.D.		
89) Benzo[a]pyrene	0.000		0	N.D. d		
90) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
91) Dibenz[a,h]anthracene	0.000		0	N.D.		
92) Benzo[g,h,i]perylene	0.000		0	N.D.		

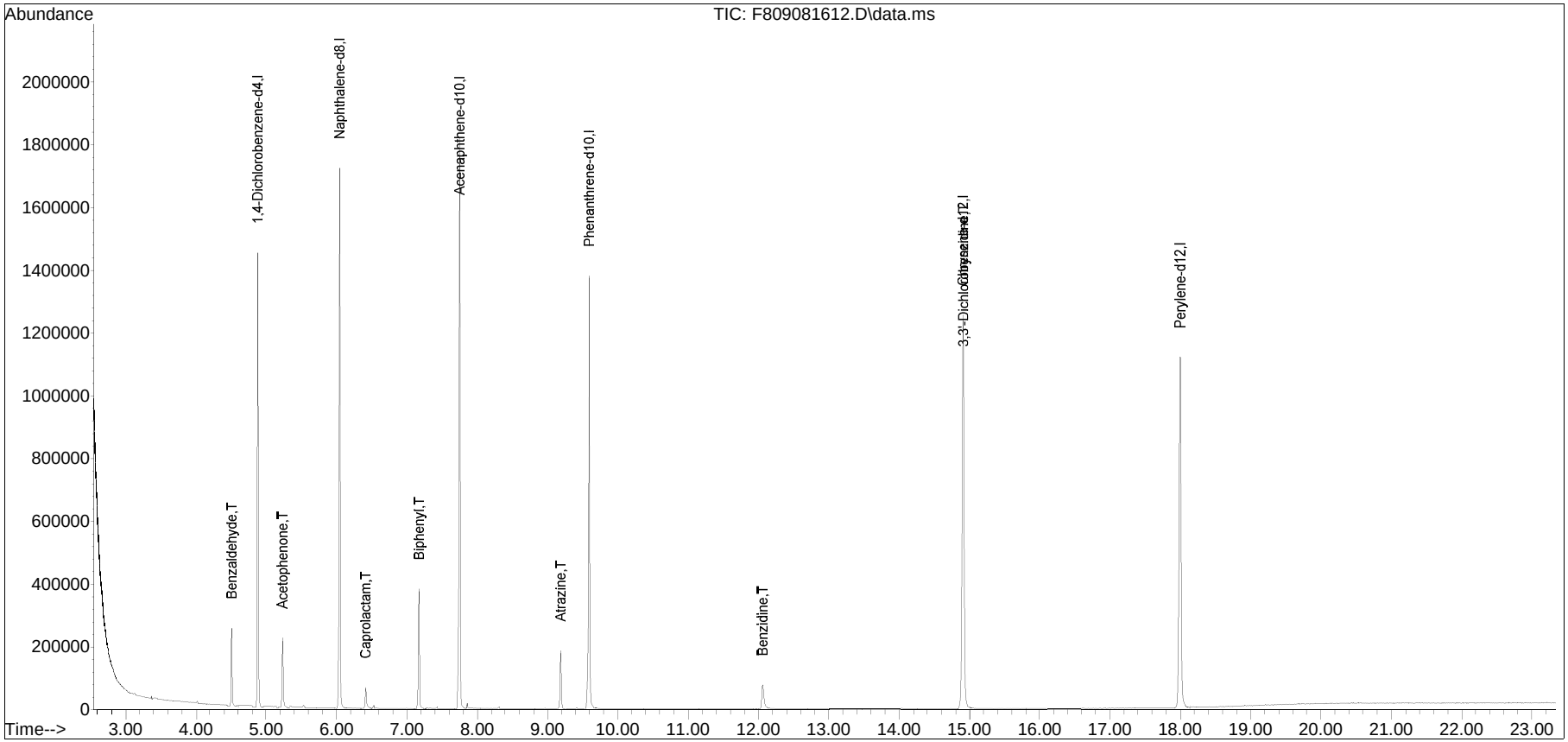
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081612.D
Acq On : 9 Sep 2016 12:35 am
Operator : BNA8:ML
Sample : I809081610
Misc : WG930406,MSAK61
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 09 09:43:30 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\BNA8\2016\	QMethod	: SV0908BNA8.M
Data File	: F809081612.D	Operator	: BNA8:ML
Date Inj'd	: 9/9/2016 12:35 am	Instrument	: BNA8
Sample	: I809081610	Quant Date	: 9/9/2016 7:49 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081613.D
Acq On : 9 Sep 2016 1:08 am
Operator : BNA8:ML
Sample : I809081611
Misc : WG930406,MSAK60
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 09:45:06 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	257703	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	981947	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	522259	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	836035	5.000	ug/mL	0.00
76) Chrysene-d12	14.917	240	761289	5.000	ug/mL	0.00
85) Perylene-d12	17.994	264	674736	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0	0.000	ug/mL	
Spiked Amount 20.000	Range 21 - 100		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 94		Recovery = 0.00%#			
22) Nitrobenzene-d5	0.000	82	0	0.000	ug/mL	
Spiked Amount 20.000	Range 35 - 114		Recovery = 0.00%#			
43) 2-Fluorobiphenyl	0.000	172	0	0.000	ug/mL	
Spiked Amount 20.000	Range 43 - 116		Recovery = 0.00%#			
65) 2,4,6-Tribromophenol	0.000	330	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 123		Recovery = 0.00%#			
79) Terphenyl-d14	0.000	244	0	0.000	ug/mL	
Spiked Amount 20.000	Range 33 - 141		Recovery = 0.00%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	0.000		0	N.D.		
5) Benzaldehyde	4.511	77	98493	1.987	ug/ml	99
6) Aniline	0.000		0	N.D.		
7) bis(2-Chloroethyl)ether	0.000		0	N.D.		
9) Phenol	0.000		0	N.D.		
10) 2-Chlorophenol	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) Benzyl alcohol	0.000		0	N.D.		
15) bis(2-chloroisopropyl)eth	0.000		0	N.D.		
16) 2-Methylphenol	0.000		0	N.D.		
17) Acetophenone	5.229	105	167641	1.980	ug/ml	98
18) Hexachloroethane	0.000		0	N.D.		
19) N-Nitroso-di-n-propylamin	0.000		0	N.D.		
20) 4-Methylphenol	0.000		0	N.D.		
23) Nitrobenzene	0.000		0	N.D. d		

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081613.D
Acq On : 9 Sep 2016 1:08 am
Operator : BNA8:ML
Sample : I809081611
Misc : WG930406,MSAK60
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 09:45:06 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
24) Isophorone	0.000		0	N.D.	
25) 2-Nitrophenol	0.000		0	N.D.	
26) 2,4-Dimethylphenol	0.000		0	N.D.	
27) Benzoic acid	0.000		0	N.D.	
28) bis(2-Chloroethoxy)methan	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
31) Naphthalene	0.000		0	N.D.	
32) 2-Chloroaniline	0.000		0	N.D.	
33) 4-Chloroaniline	0.000		0	N.D.	
34) Hexachlorobutadiene	0.000		0	N.D.	
35) Caprolactam	6.413	113	33702M1	1.812 ug/ml	
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	
39) 1,2,4,5-Tetrachlorobenzen	0.000		0	N.D.	
40) Hexachlorocyclopentadiene	0.000		0	N.D.	
41) 2,4,6-Trichlorophenol	0.000		0	N.D.	
42) 2,4,5-Trichlorophenol	0.000		0	N.D.	
44) Biphenyl	7.174	154	309159	2.051 ug/ml	99
45) 2-Chloronaphthalene	0.000		0	N.D.	
46) 2-Nitroaniline	0.000		0	N.D. d	
47) Acenaphthylene	0.000		0	N.D.	
48) Dimethylphthalate	0.000		0	N.D.	
49) 2,6-Dinitrotoluene	0.000		0	N.D.	
50) Acenaphthene	0.000		0	N.D.	
51) 3-Nitroaniline	0.000		0	N.D. d	
52) 2,4-Dinitrophenol	0.000		0	N.D.	
53) Dibenzofuran	0.000		0	N.D.	
54) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
55) 2,4-Dinitrotoluene	0.000		0	N.D.	
56) 4-Nitrophenol	0.000		0	N.D.	
57) Fluorene	0.000		0	N.D.	
58) 4-Chlorophenyl-phenylethe	0.000		0	N.D.	
59) Diethylphthalate	0.000		0	N.D.	
60) 4-Nitroaniline	0.000		0	N.D.	
62) 4,6-Dinitro-2-methylpheno	0.000		0	N.D.	
63) Azobenzene	0.000		0	N.D.	
64) n-Nitrosodiphenylamine	0.000		0	N.D.	
66) 4-Bromophenyl-phenylether	0.000		0	N.D.	
67) Hexachlorobenzene	0.000		0	N.D.	
68) Atrazine	9.187	200	66522	1.912 ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081613.D
Acq On : 9 Sep 2016 1:08 am
Operator : BNA8:ML
Sample : I809081611
Misc : WG930406,MSAK60
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 09:45:06 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Pentachlorophenol	0.000		0	N.D.		
70) Pentachloronitrobenzene	0.000		0	N.D.		
71) Phenanthrene	0.000		0	N.D.		
72) Anthracene	0.000		0	N.D.		
73) Carbazole	0.000		0	N.D.		
74) Di-n-butylphthalate	0.000		0	N.D.		
75) Fluoranthene	0.000		0	N.D.		
77) Benzidine	12.057	184	220157	1.622	ug/mL	99
78) Pyrene	0.000		0	N.D.		
80) Butylbenzylphthalate	0.000		0	N.D.		
81) 3,3'-Dichlorobenzidine	14.927	252	118719	1.856	ug/mL	99
82) Benz[a]anthracene	0.000		0	N.D.	d	
83) Chrysene	0.000		0	N.D.	d	
84) bis(2-Ethylhexyl)phthalat	0.000		0	N.D.		
86) Di-n-octylphthalate	0.000		0	N.D.		
87) Benzo[b]fluoranthene	0.000		0	N.D.		
88) Benzo[k]fluoranthene	0.000		0	N.D.		
89) Benzo[a]pyrene	0.000		0	N.D.	d	
90) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
91) Dibenz[a,h]anthracene	0.000		0	N.D.		
92) Benzo[g,h,i]perylene	0.000		0	N.D.		

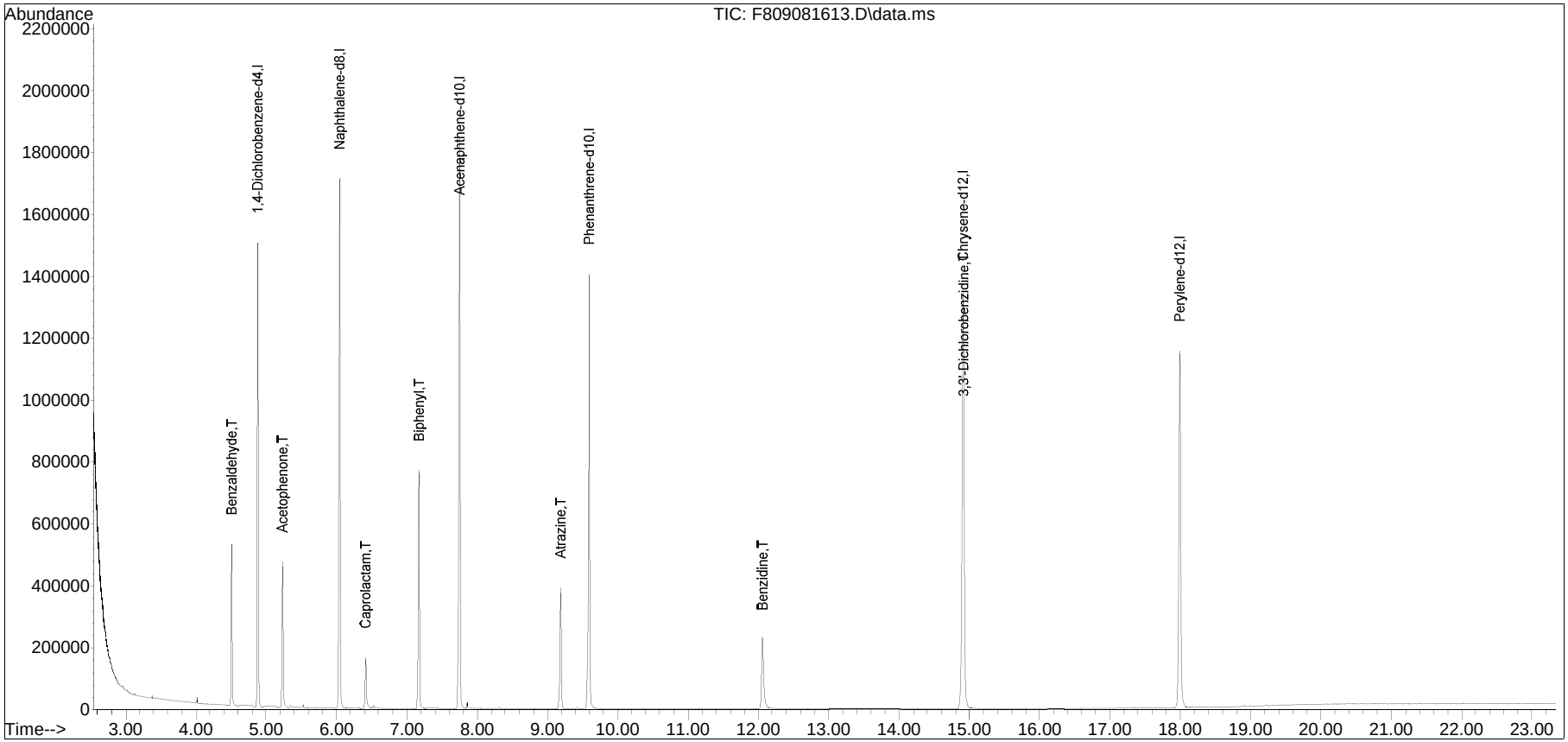
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081613.D
Acq On : 9 Sep 2016 1:08 am
Operator : BNA8:ML
Sample : I809081611
Misc : WG930406,MSAK60
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 09:45:06 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

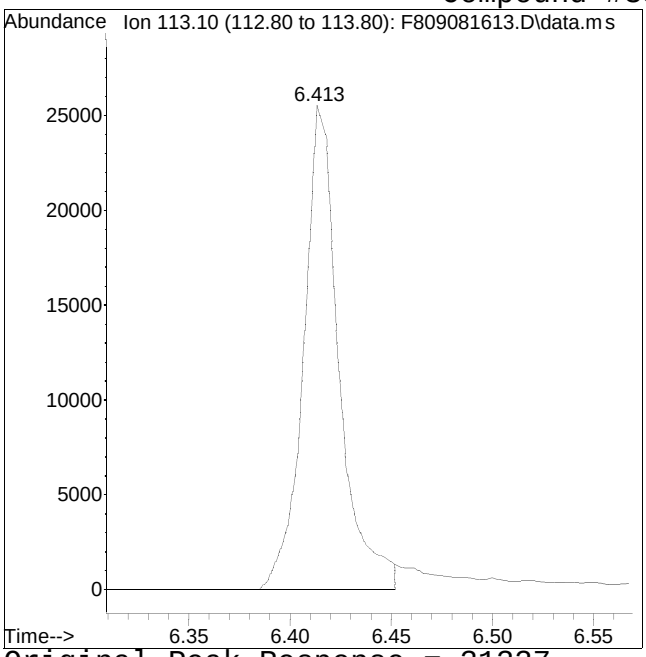
Sub List : Default - All compounds listed

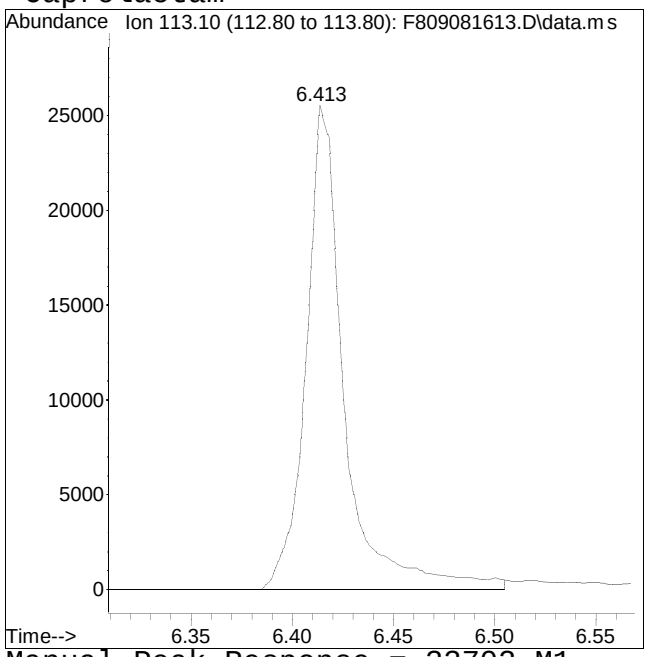


Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081613.D Operator : BNA8:ML
Date Inj'd : 9/9/2016 1:08 am Instrument : BNA8
Sample : I809081611 Quant Date : 9/9/2016 7:49 am

Compound #35: Caprolactam





Original Peak Response = 31337 Manual Peak Response = 33702 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081614.D
Acq On : 9 Sep 2016 1:40 am
Operator : BNA8:ML
Sample : I809081612
Misc : WG930406,MSAK59
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 09:45:50 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	255952	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	955210	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	514196	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	817687	5.000	ug/mL	0.00
76) Chrysene-d12	14.917	240	754348	5.000	ug/mL	0.00
85) Perylene-d12	17.999	264	671881	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0	0.000	ug/mL	
Spiked Amount 20.000	Range 21 - 100		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 94		Recovery = 0.00%#			
22) Nitrobenzene-d5	0.000	82	0	0.000	ug/mL	
Spiked Amount 20.000	Range 35 - 114		Recovery = 0.00%#			
43) 2-Fluorobiphenyl	0.000	172	0	0.000	ug/mL	
Spiked Amount 20.000	Range 43 - 116		Recovery = 0.00%#			
65) 2,4,6-Tribromophenol	0.000	330	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 123		Recovery = 0.00%#			
79) Terphenyl-d14	0.000	244	0	0.000	ug/mL	
Spiked Amount 20.000	Range 33 - 141		Recovery = 0.00%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	0.000		0	N.D.		
5) Benzaldehyde	4.511	77	246182	5.001	ug/ml	99
6) Aniline	0.000		0	N.D.		
7) bis(2-Chloroethyl)ether	0.000		0	N.D.		
9) Phenol	0.000		0	N.D.		
10) 2-Chlorophenol	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) Benzyl alcohol	0.000		0	N.D. d		
15) bis(2-chloroisopropyl)eth	0.000		0	N.D.		
16) 2-Methylphenol	0.000		0	N.D.		
17) Acetophenone	5.229	105	420836	5.004	ug/ml	98
18) Hexachloroethane	0.000		0	N.D.		
19) N-Nitroso-di-n-propylamin	0.000		0	N.D.		
20) 4-Methylphenol	0.000		0	N.D.		
23) Nitrobenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081614.D
Acq On : 9 Sep 2016 1:40 am
Operator : BNA8:ML
Sample : I809081612
Misc : WG930406,MSAK59
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 09:45:50 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
24) Isophorone	0.000		0	N.D.	
25) 2-Nitrophenol	0.000		0	N.D.	
26) 2,4-Dimethylphenol	0.000		0	N.D.	
27) Benzoic acid	0.000		0	N.D.	
28) bis(2-Chloroethoxy)methan	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
31) Naphthalene	0.000		0	N.D.	
32) 2-Chloroaniline	0.000		0	N.D.	
33) 4-Chloroaniline	0.000		0	N.D.	
34) Hexachlorobutadiene	0.000		0	N.D.	
35) Caprolactam	6.423	113	94181M1	5.205 ug/ml	
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	
39) 1,2,4,5-Tetrachlorobenzen	0.000		0	N.D.	
40) Hexachlorocyclopentadiene	0.000		0	N.D.	
41) 2,4,6-Trichlorophenol	0.000		0	N.D.	
42) 2,4,5-Trichlorophenol	0.000		0	N.D.	
44) Biphenyl	7.174	154	758640	5.111 ug/ml	100
45) 2-Chloronaphthalene	0.000		0	N.D.	
46) 2-Nitroaniline	0.000		0	N.D. d	
47) Acenaphthylene	0.000		0	N.D.	
48) Dimethylphthalate	0.000		0	N.D.	
49) 2,6-Dinitrotoluene	0.000		0	N.D.	
50) Acenaphthene	0.000		0	N.D.	
51) 3-Nitroaniline	0.000		0	N.D. d	
52) 2,4-Dinitrophenol	0.000		0	N.D.	
53) Dibenzofuran	0.000		0	N.D.	
54) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
55) 2,4-Dinitrotoluene	0.000		0	N.D.	
56) 4-Nitrophenol	0.000		0	N.D.	
57) Fluorene	0.000		0	N.D.	
58) 4-Chlorophenyl-phenylethe	0.000		0	N.D.	
59) Diethylphthalate	0.000		0	N.D.	
60) 4-Nitroaniline	0.000		0	N.D.	
62) 4,6-Dinitro-2-methylpheno	0.000		0	N.D.	
63) Azobenzene	0.000		0	N.D.	
64) n-Nitrosodiphenylamine	0.000		0	N.D.	
66) 4-Bromophenyl-phenylether	0.000		0	N.D.	
67) Hexachlorobenzene	0.000		0	N.D.	
68) Atrazine	9.192	200	175138	5.148 ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081614.D
Acq On : 9 Sep 2016 1:40 am
Operator : BNA8:ML
Sample : I809081612
Misc : WG930406,MSAK59
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 09:45:50 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Pentachlorophenol	0.000		0	N.D.		
70) Pentachloronitrobenzene	0.000		0	N.D.		
71) Phenanthrene	0.000		0	N.D.		
72) Anthracene	0.000		0	N.D.		
73) Carbazole	0.000		0	N.D.		
74) Di-n-butylphthalate	0.000		0	N.D.		
75) Fluoranthene	0.000		0	N.D.		
77) Benzidine	12.057	184	617878	4.594	ug/mL	100
78) Pyrene	0.000		0	N.D.		
80) Butylbenzylphthalate	0.000		0	N.D.		
81) 3,3'-Dichlorobenzidine	14.927	252	317385	5.008	ug/mL	99
82) Benz[a]anthracene	0.000		0	N.D.	d	
83) Chrysene	0.000		0	N.D.	d	
84) bis(2-Ethylhexyl)phthalat	0.000		0	N.D.	d	
86) Di-n-octylphthalate	0.000		0	N.D.		
87) Benzo[b]fluoranthene	0.000		0	N.D.		
88) Benzo[k]fluoranthene	0.000		0	N.D.		
89) Benzo[a]pyrene	0.000		0	N.D.	d	
90) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
91) Dibenz[a,h]anthracene	0.000		0	N.D.		
92) Benzo[g,h,i]perylene	0.000		0	N.D.		

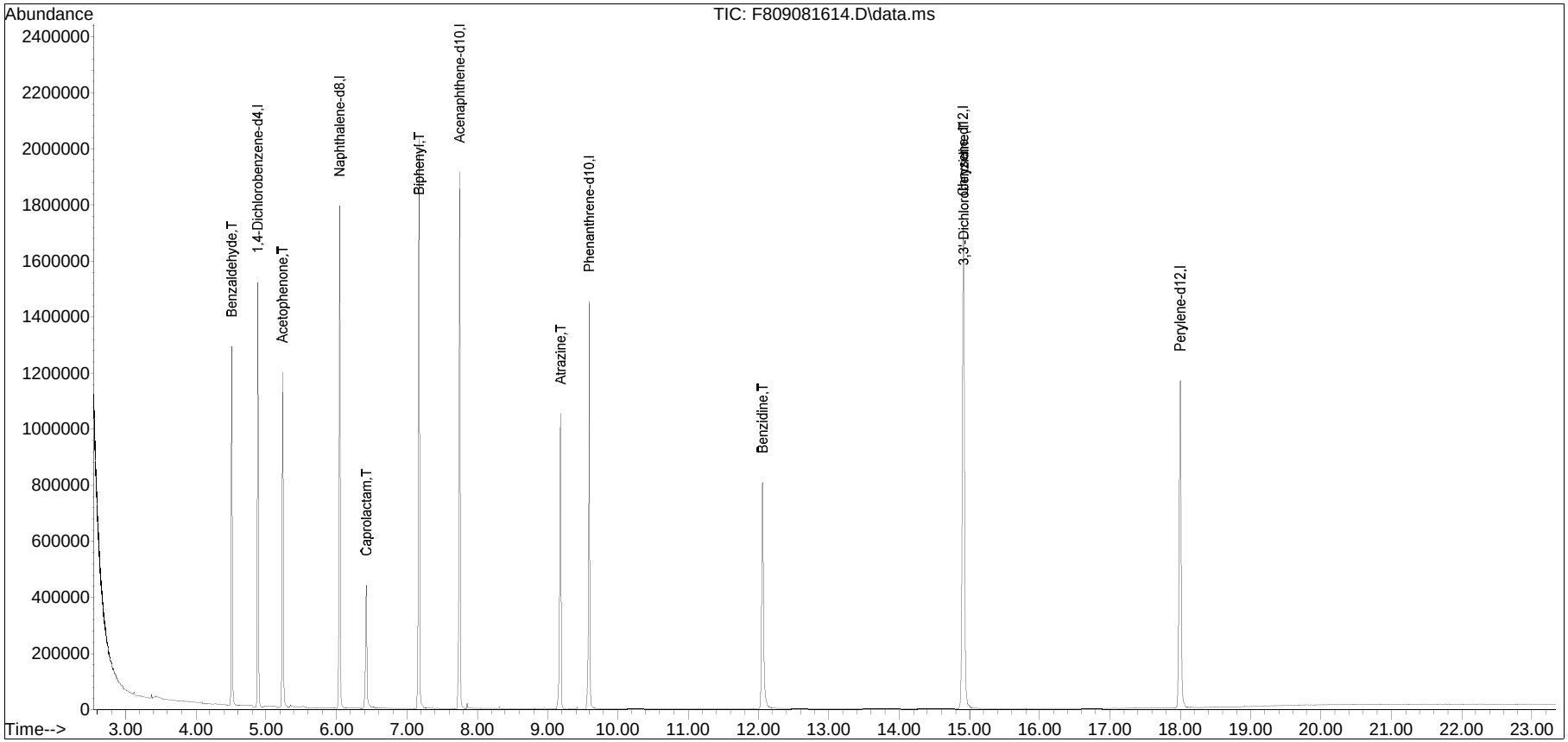
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081614.D
Acq On : 9 Sep 2016 1:40 am
Operator : BNA8:ML
Sample : I809081612
Misc : WG930406,MSAK59
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 09:45:50 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

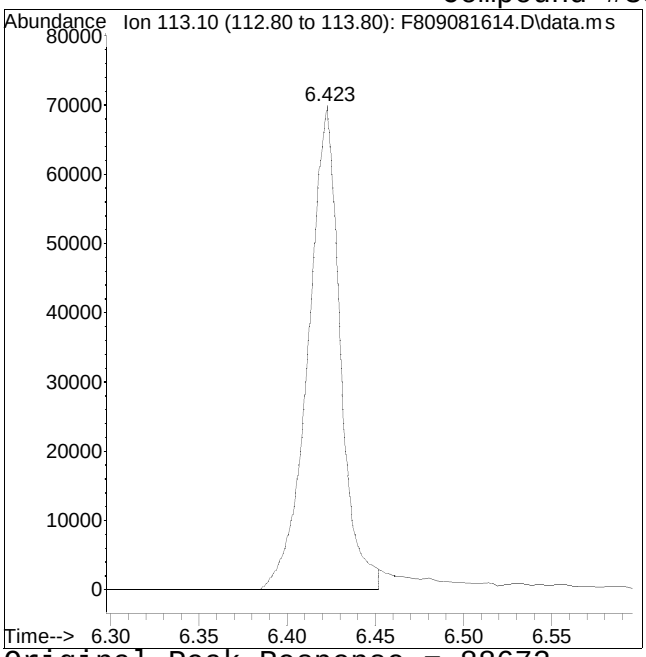
Sub List : Default - All compounds listed

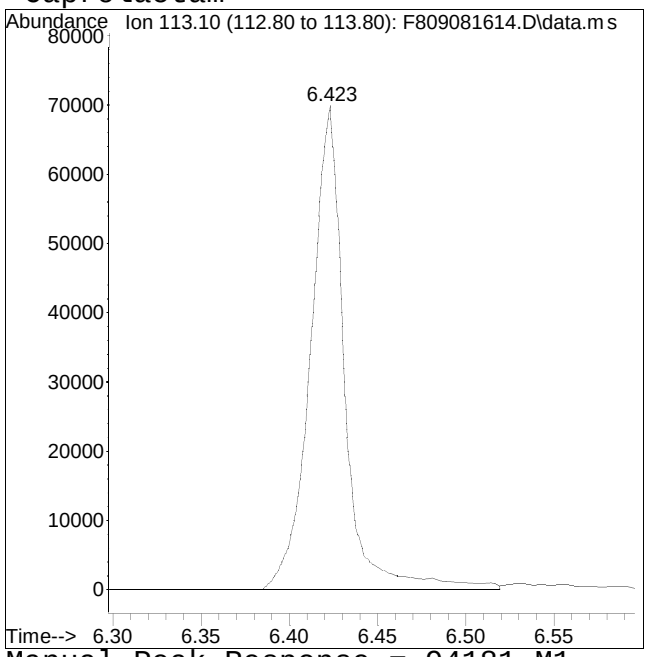


Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081614.D Operator : BNA8:ML
Date Inj'd : 9/9/2016 1:40 am Instrument : BNA8
Sample : I809081612 Quant Date : 9/9/2016 7:49 am

Compound #35: Caprolactam





Original Peak Response = 88672 Manual Peak Response = 94181 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081615.D
Acq On : 9 Sep 2016 2:13 am
Operator : BNA8:ML
Sample : I809081613
Misc : WG930406,MSAK58
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 07:47:30 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:46:24 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	258690	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	975600	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	500099	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	826502	5.000	ug/mL	0.00
76) Chrysene-d12	14.917	240	756175	5.000	ug/mL	0.00
85) Perylene-d12	17.999	264	672056	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0	0.000	ug/mL	
Spiked Amount 20.000	Range 21 - 100		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 94		Recovery = 0.00%#			
22) Nitrobenzene-d5	0.000	82	0	0.000	ug/mL	
Spiked Amount 20.000	Range 35 - 114		Recovery = 0.00%#			
43) 2-Fluorobiphenyl	0.000	172	0	0.000	ug/mL	
Spiked Amount 20.000	Range 43 - 116		Recovery = 0.00%#			
65) 2,4,6-Tribromophenol	0.000	330	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 123		Recovery = 0.00%#			
79) Terphenyl-d14	0.000	244	0	0.000	ug/mL	
Spiked Amount 20.000	Range 33 - 141		Recovery = 0.00%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	0.000		0	N.D.		
5) Benzaldehyde	4.511	77	500310	10.056	ug/ml	99
6) Aniline	0.000		0	N.D.		
7) bis(2-Chloroethyl)ether	0.000		0	N.D.		
9) Phenol	0.000		0	N.D.		
10) 2-Chlorophenol	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) Benzyl alcohol	0.000		0	N.D.		
15) bis(2-chloroisopropyl)eth	0.000		0	N.D.		
16) 2-Methylphenol	0.000		0	N.D.		
17) Acetophenone	5.229	105	862457	10.147	ug/ml	98
18) Hexachloroethane	0.000		0	N.D.		
19) N-Nitroso-di-n-propylamin	0.000		0	N.D.		
20) 4-Methylphenol	0.000		0	N.D.		
23) Nitrobenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081615.D
Acq On : 9 Sep 2016 2:13 am
Operator : BNA8:ML
Sample : I809081613
Misc : WG930406,MSAK58
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 07:47:30 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:46:24 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Isophorone	0.000		0	N.D.		
25) 2-Nitrophenol	0.000		0	N.D.		
26) 2,4-Dimethylphenol	0.000		0	N.D.		
27) Benzoic acid	0.000		0	N.D.		
28) bis(2-Chloroethoxy)methan	0.000		0	N.D.		
29) 2,4-Dichlorophenol	0.000		0	N.D.		
30) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
31) Naphthalene	0.000		0	N.D.		
32) 2-Chloroaniline	0.000		0	N.D.		
33) 4-Chloroaniline	0.000		0	N.D.		
34) Hexachlorobutadiene	0.000		0	N.D.		
35) Caprolactam	6.433	113	196209	10.618	ug/ml	96
36) 4-Chloro-3-methylphenol	0.000		0	N.D.		
37) 2-Methylnaphthalene	0.000		0	N.D.		
39) 1,2,4,5-Tetrachlorobenzen	0.000		0	N.D.		
40) Hexachlorocyclopentadiene	0.000		0	N.D.		
41) 2,4,6-Trichlorophenol	0.000		0	N.D.		
42) 2,4,5-Trichlorophenol	0.000		0	N.D.		
44) Biphenyl	7.174	154	1510159	10.461	ug/ml	100
45) 2-Chloronaphthalene	0.000		0	N.D.		
46) 2-Nitroaniline	0.000		0	N.D. d		
47) Acenaphthylene	0.000		0	N.D.		
48) Dimethylphthalate	0.000		0	N.D.		
49) 2,6-Dinitrotoluene	0.000		0	N.D.		
50) Acenaphthene	0.000		0	N.D.		
51) 3-Nitroaniline	0.000		0	N.D.		
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) Dibenzofuran	0.000		0	N.D.		
54) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
55) 2,4-Dinitrotoluene	0.000		0	N.D.		
56) 4-Nitrophenol	0.000		0	N.D. d		
57) Fluorene	0.000		0	N.D.		
58) 4-Chlorophenyl-phenylethe	0.000		0	N.D.		
59) Diethylphthalate	0.000		0	N.D.		
60) 4-Nitroaniline	0.000		0	N.D.		
62) 4,6-Dinitro-2-methylpheno	0.000		0	N.D.		
63) Azobenzene	0.000		0	N.D.		
64) n-Nitrosodiphenylamine	0.000		0	N.D.		
66) 4-Bromophenyl-phenylether	0.000		0	N.D.		
67) Hexachlorobenzene	0.000		0	N.D.		
68) Atrazine	9.196	200	364706	10.606	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081615.D
Acq On : 9 Sep 2016 2:13 am
Operator : BNA8:ML
Sample : I809081613
Misc : WG930406,MSAK58
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 07:47:30 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:46:24 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Pentachlorophenol	0.000		0	N.D.		
70) Pentachloronitrobenzene	0.000		0	N.D.		
71) Phenanthrene	0.000		0	N.D.		
72) Anthracene	0.000		0	N.D.		
73) Carbazole	0.000		0	N.D.		
74) Di-n-butylphthalate	0.000		0	N.D.		
75) Fluoranthene	0.000		0	N.D.		
77) Benzidine	12.062	184	1357349	10.067	ug/mL	100
78) Pyrene	0.000		0	N.D.		
80) Butylbenzylphthalate	0.000		0	N.D.		
81) 3,3'-Dichlorobenzidine	14.932	252	685328	10.787	ug/mL	99
82) Benz[a]anthracene	0.000		0	N.D. d		
83) Chrysene	0.000		0	N.D. d		
84) bis(2-Ethylhexyl)phthalat	0.000		0	N.D. d		
86) Di-n-octylphthalate	0.000		0	N.D.		
87) Benzo[b]fluoranthene	0.000		0	N.D.		
88) Benzo[k]fluoranthene	0.000		0	N.D.		
89) Benzo[a]pyrene	0.000		0	N.D. d		
90) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
91) Dibenz[a,h]anthracene	0.000		0	N.D.		
92) Benzo[g,h,i]perylene	0.000		0	N.D.		

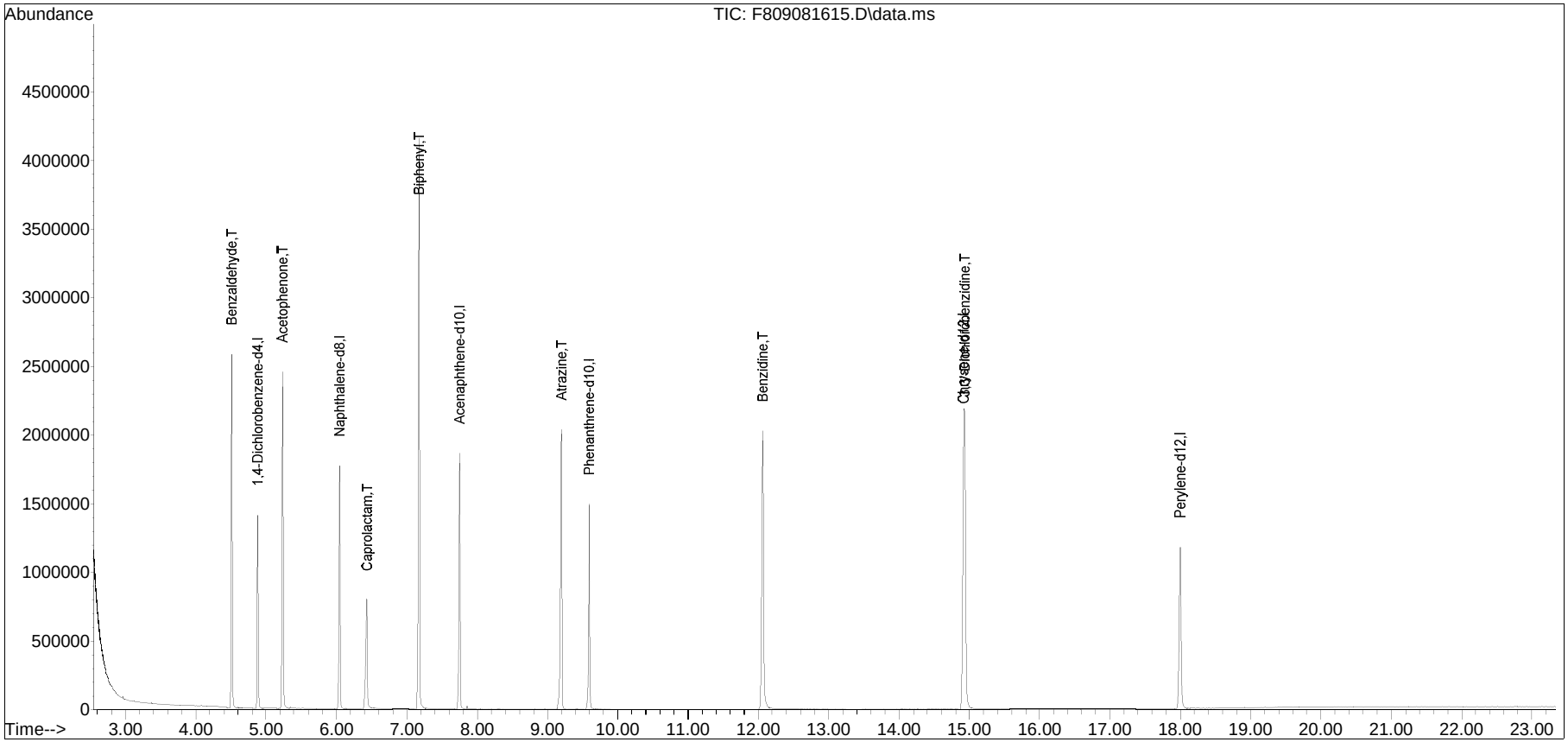
(#) = qualifier out of range (m) = manual integration (+) = signals summed

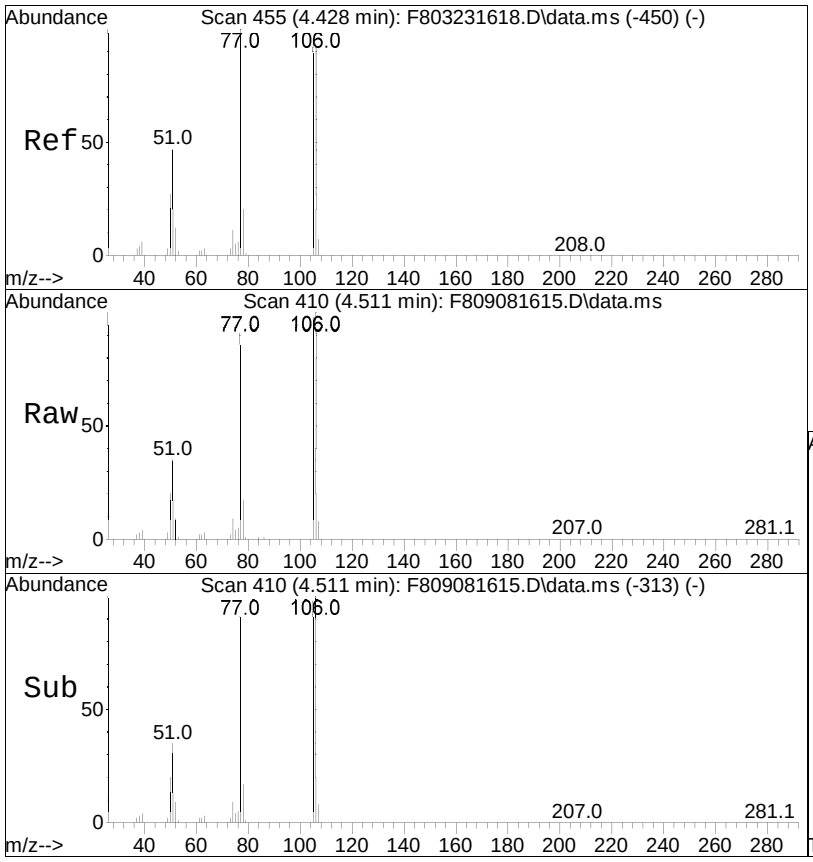
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081615.D
Acq On : 9 Sep 2016 2:13 am
Operator : BNA8:ML
Sample : I809081613
Misc : WG930406,MSAK58
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 07:47:30 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:46:24 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

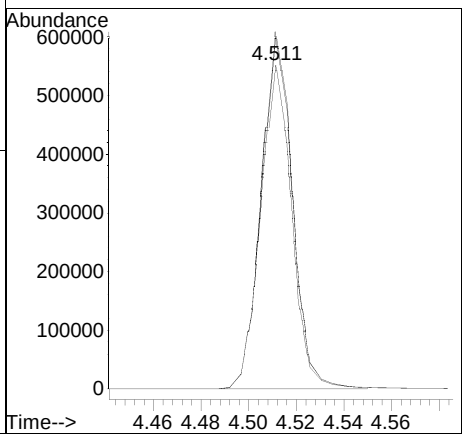


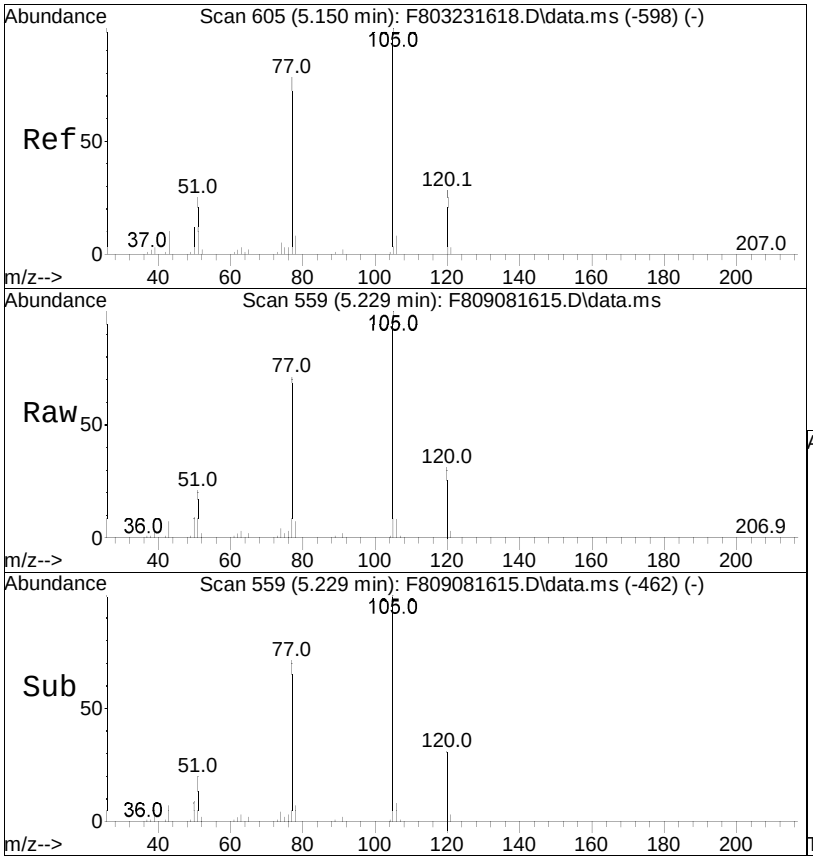


#5
Benzaldehyde
Concen: 10.06 ug/ml
RT: 4.511 min Scan# 410
Delta R.T. -0.034 min
Lab File: F809081615.D
Acq: 9 Sep 2016 2:13 am

Tgt Ion: 77 Resp: 500310

Ion	Ratio	Lower	Upper
77	100		
105	108.9	88.1	132.1
106	111.1	89.8	134.8

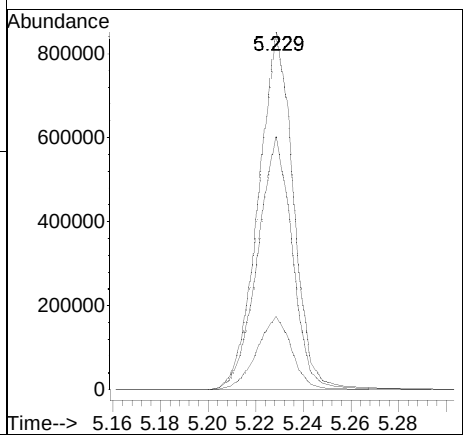


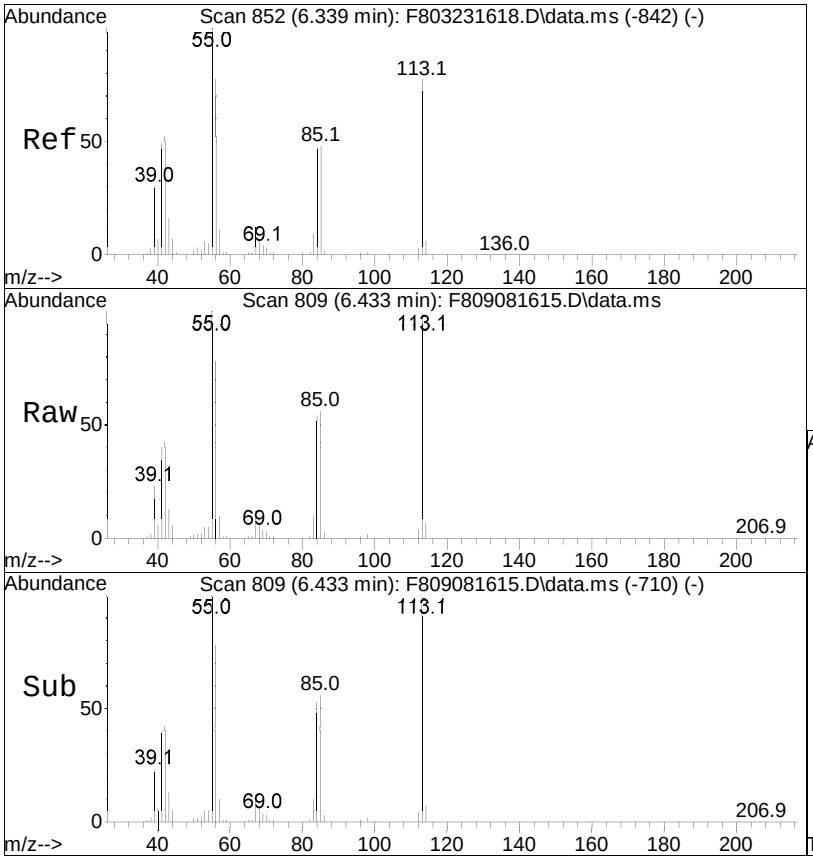


#17
Acetophenone
Concen: 10.15 ug/ml
RT: 5.229 min Scan# 559
Delta R.T. -0.033 min
Lab File: F809081615.D
Acq: 9 Sep 2016 2:13 am

Tgt Ion:105 Resp: 862457

Ion	Ratio	Lower	Upper
105	100		
77	70.7	57.7	86.5
51	20.4	17.1	25.7

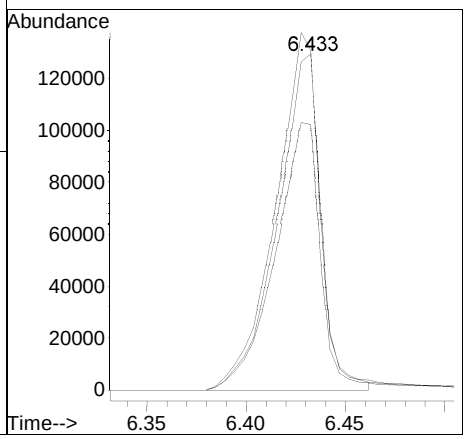


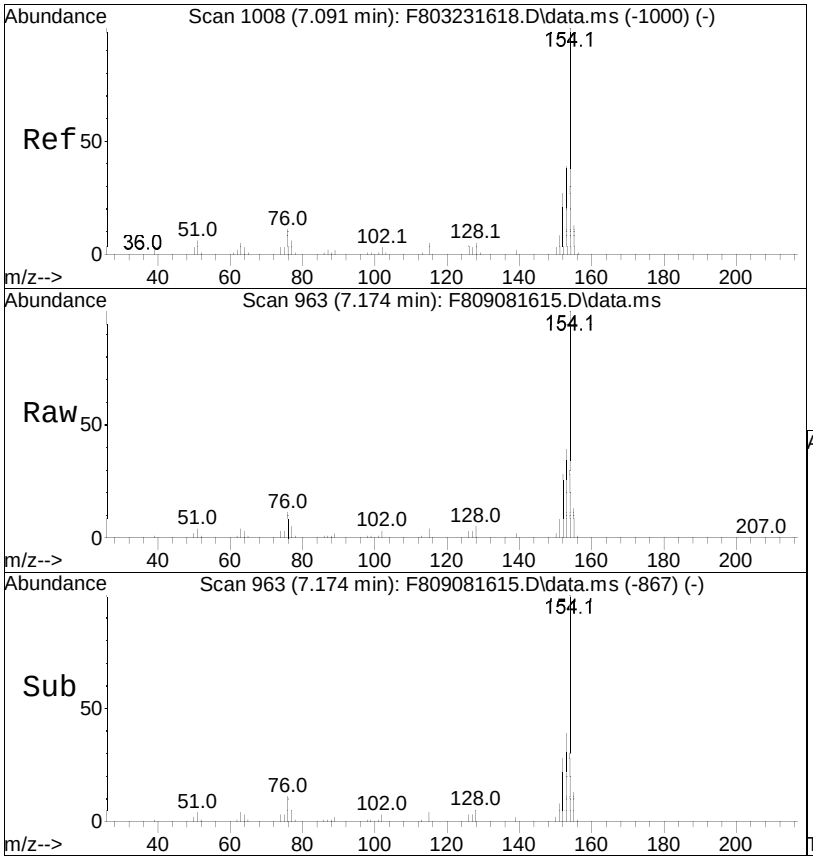


#35
Caprolactam
Concen: 10.62 ug/ml
RT: 6.433 min Scan# 809
Delta R.T. -0.024 min
Lab File: F809081615.D
Acq: 9 Sep 2016 2:13 am

Tgt Ion:113 Resp: 196209

Ion	Ratio	Lower	Upper
113	100		
55	107.8	82.6	123.8
56	82.2	63.0	94.6

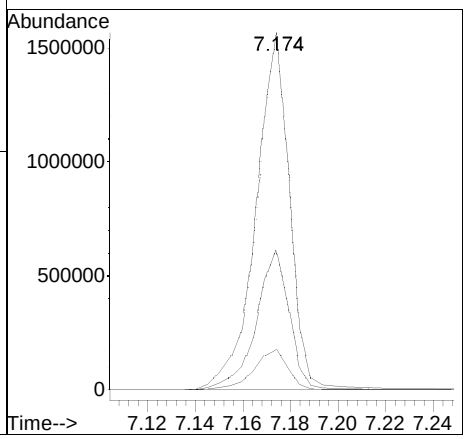


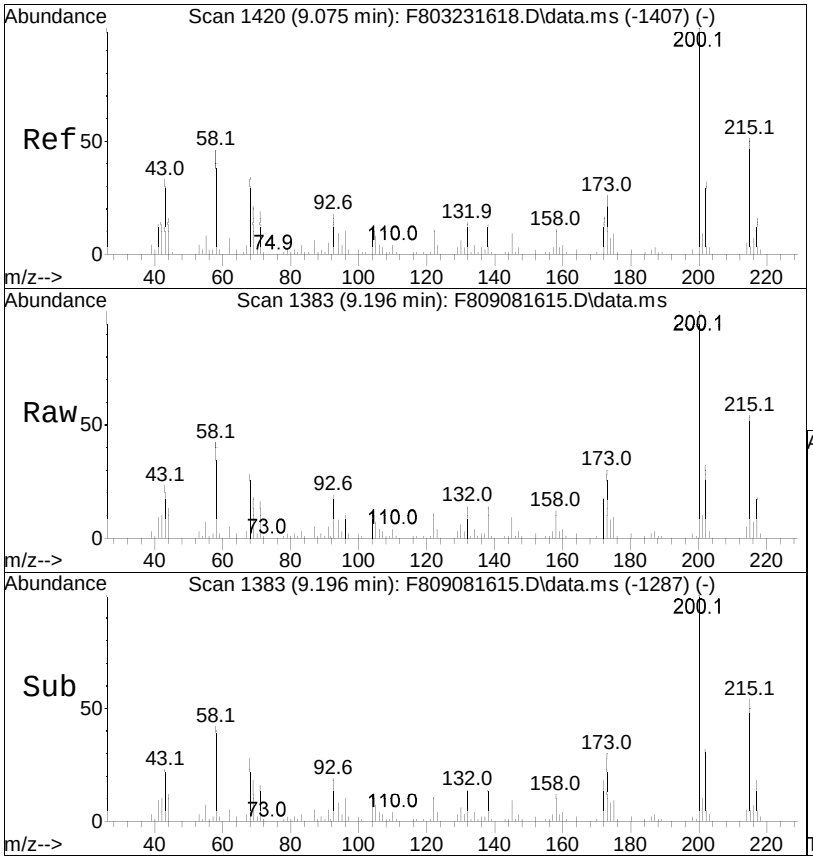


#44
Biphenyl
Concen: 10.46 ug/ml
RT: 7.174 min Scan# 963
Delta R.T. -0.039 min
Lab File: F809081615.D
Acq: 9 Sep 2016 2:13 am

Tgt Ion:154 Resp: 1510159

Ion	Ratio	Lower	Upper
154	100		
153	39.0	31.4	47.0
76	11.8	9.8	14.6

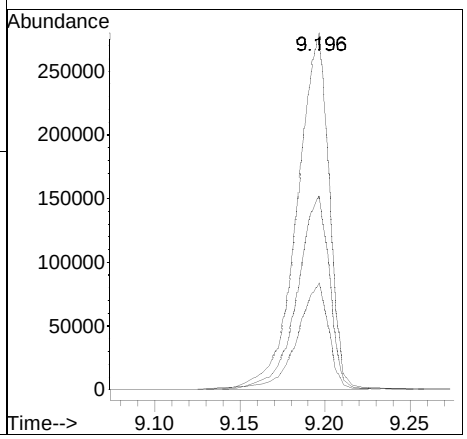


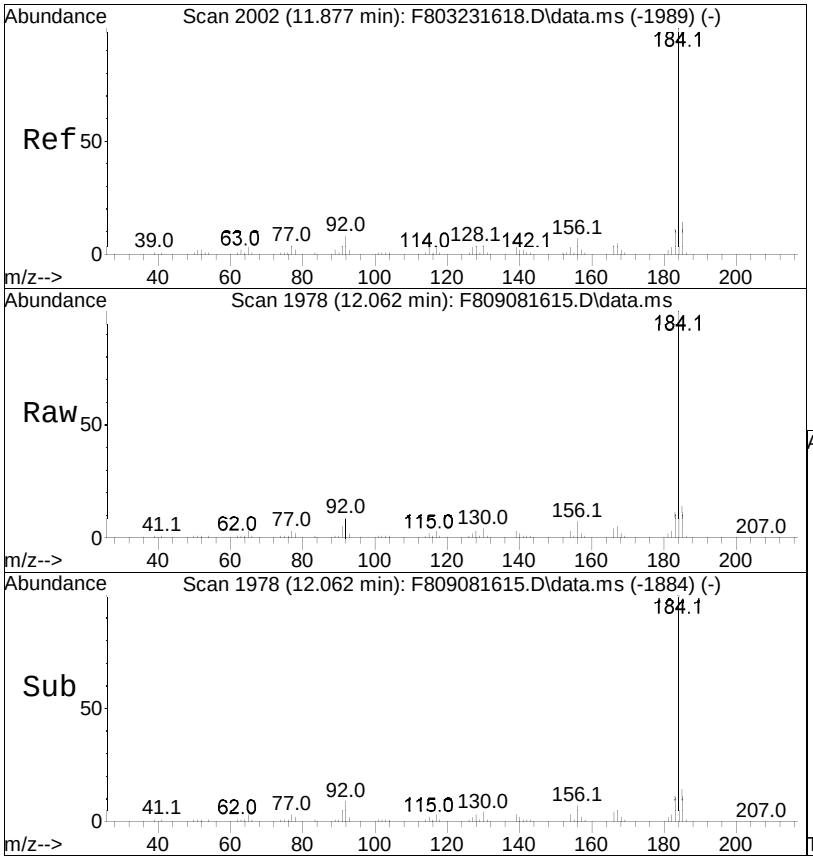


#68
Atrazine
Concen: 10.61 ug/ml
RT: 9.196 min Scan# 1383
Delta R.T. -0.039 min
Lab File: F809081615.D
Acq: 9 Sep 2016 2:13 am

Tgt Ion:200 Resp: 364706

Ion	Ratio	Lower	Upper
200	100		
173	29.7	22.4	33.6
215	54.6	43.8	65.6

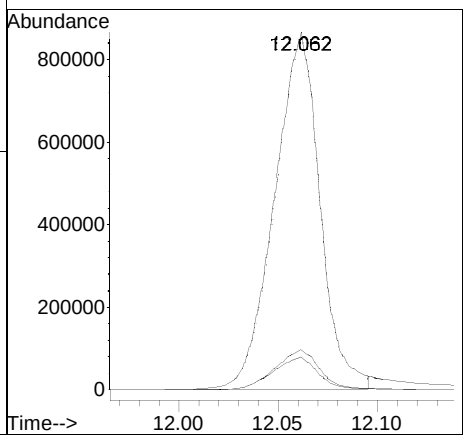


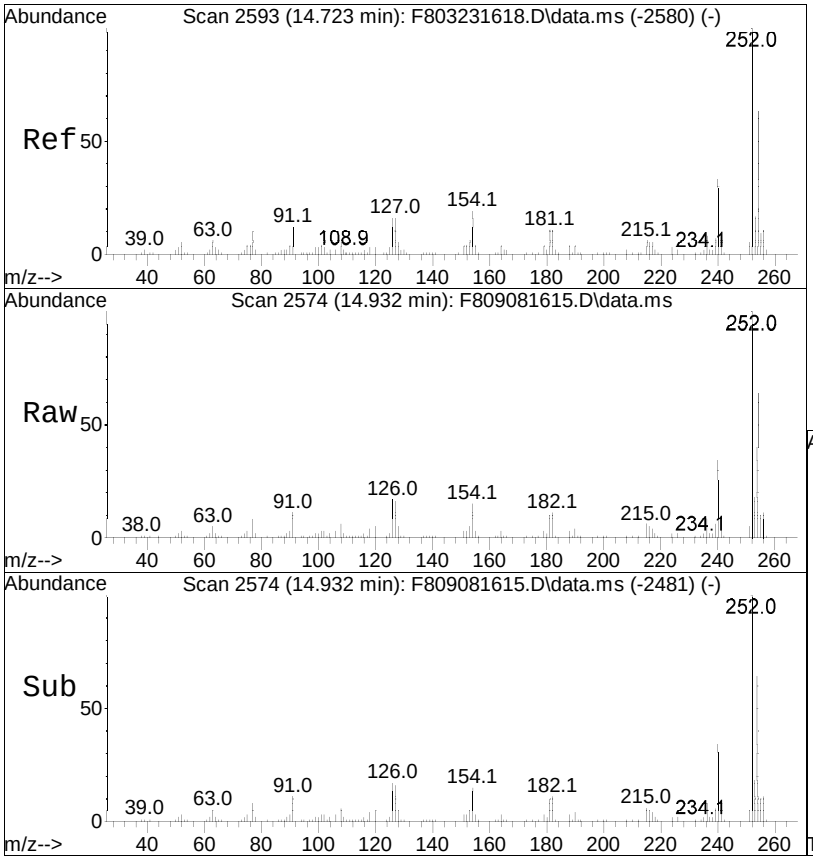


#77
Benzidine
Concen: 10.07 ug/mL
RT: 12.062 min Scan# 1978
Delta R.T. -0.048 min
Lab File: F809081615.D
Acq: 9 Sep 2016 2:13 am

Tgt Ion:184 Resp: 1357349

Ion	Ratio	Lower	Upper
184	100		
183	11.1	9.0	13.4
92	9.2	7.4	11.2

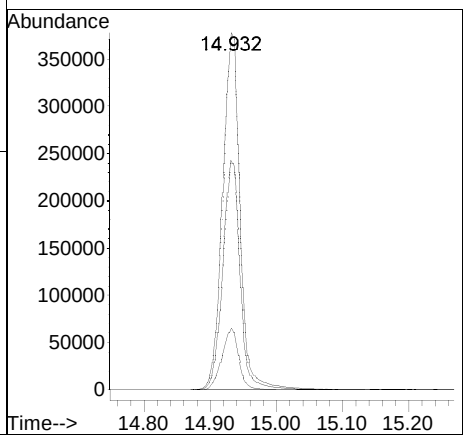




#81
3,3'-Dichlorobenzidine
Concen: 10.79 ug/mL
RT: 14.932 min Scan# 2574
Delta R.T. -0.053 min
Lab File: F809081615.D
Acq: 9 Sep 2016 2:13 am

Tgt Ion:252 Resp: 685328

Ion	Ratio	Lower	Upper
252	100		
254	63.9	52.0	78.0
126	17.4	13.6	20.4



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\BNA8\2016\	QMethod	: SV0908BNA8.M
Data File	: F809081615.D	Operator	: BNA8:ML
Date Inj'd	: 9/9/2016 2:13 am	Instrument	: BNA8
Sample	: I809081613	Quant Date	: 9/9/2016 7:46 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081616.D
Acq On : 9 Sep 2016 2:45 am
Operator : BNA8:ML
Sample : I809081614
Misc : WG930406,MSAK57
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 09:46:28 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	257578	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	954787	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	505438	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	786787	5.000	ug/mL	0.00
76) Chrysene-d12	14.917	240	739894	5.000	ug/mL	0.00
85) Perylene-d12	17.999	264	678236	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0	0.000	ug/mL	
Spiked Amount 20.000	Range 21 - 100		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 94		Recovery = 0.00%#			
22) Nitrobenzene-d5	0.000	82	0	0.000	ug/mL	
Spiked Amount 20.000	Range 35 - 114		Recovery = 0.00%#			
43) 2-Fluorobiphenyl	0.000	172	0	0.000	ug/mL	
Spiked Amount 20.000	Range 43 - 116		Recovery = 0.00%#			
65) 2,4,6-Tribromophenol	0.000	330	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 123		Recovery = 0.00%#			
79) Terphenyl-d14	0.000	244	0	0.000	ug/mL	
Spiked Amount 20.000	Range 33 - 141		Recovery = 0.00%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	0.000		0	N.D.		
5) Benzaldehyde	4.516	77	711943	14.372	ug/ml	99
6) Aniline	0.000		0	N.D.		
7) bis(2-Chloroethyl)ether	0.000		0	N.D.		
9) Phenol	0.000		0	N.D.		
10) 2-Chlorophenol	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) Benzyl alcohol	0.000		0	N.D.		
15) bis(2-chloroisopropyl)eth	0.000		0	N.D.		
16) 2-Methylphenol	0.000		0	N.D.		
17) Acetophenone	5.233	105	1240698	14.661	ug/ml	98
18) Hexachloroethane	0.000		0	N.D.		
19) N-Nitroso-di-n-propylamin	0.000		0	N.D.		
20) 4-Methylphenol	0.000		0	N.D.		
23) Nitrobenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081616.D
Acq On : 9 Sep 2016 2:45 am
Operator : BNA8:ML
Sample : I809081614
Misc : WG930406,MSAK57
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 09:46:28 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Isophorone	0.000		0	N.D.		
25) 2-Nitrophenol	0.000		0	N.D.		
26) 2,4-Dimethylphenol	0.000		0	N.D.		
27) Benzoic acid	0.000		0	N.D. d		
28) bis(2-Chloroethoxy)methan	0.000		0	N.D.		
29) 2,4-Dichlorophenol	0.000		0	N.D.		
30) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
31) Naphthalene	0.000		0	N.D.		
32) 2-Chloroaniline	0.000		0	N.D.		
33) 4-Chloroaniline	0.000		0	N.D.		
34) Hexachlorobutadiene	0.000		0	N.D.		
35) Caprolactam	6.437	113	290245	16.049	ug/ml	96
36) 4-Chloro-3-methylphenol	0.000		0	N.D.		
37) 2-Methylnaphthalene	0.000		0	N.D.		
39) 1,2,4,5-Tetrachlorobenzen	0.000		0	N.D.		
40) Hexachlorocyclopentadiene	0.000		0	N.D.		
41) 2,4,6-Trichlorophenol	0.000		0	N.D.		
42) 2,4,5-Trichlorophenol	0.000		0	N.D.		
44) Biphenyl	7.174	154	2142032	14.681	ug/ml	99
45) 2-Chloronaphthalene	0.000		0	N.D.		
46) 2-Nitroaniline	0.000		0	N.D. d		
47) Acenaphthylene	0.000		0	N.D.		
48) Dimethylphthalate	0.000		0	N.D.		
49) 2,6-Dinitrotoluene	0.000		0	N.D.		
50) Acenaphthene	0.000		0	N.D. d		
51) 3-Nitroaniline	0.000		0	N.D. d		
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) Dibenzofuran	0.000		0	N.D.		
54) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
55) 2,4-Dinitrotoluene	0.000		0	N.D.		
56) 4-Nitrophenol	0.000		0	N.D.		
57) Fluorene	0.000		0	N.D.		
58) 4-Chlorophenyl-phenylethe	0.000		0	N.D.		
59) Diethylphthalate	0.000		0	N.D.		
60) 4-Nitroaniline	0.000		0	N.D.		
62) 4,6-Dinitro-2-methylpheno	0.000		0	N.D.		
63) Azobenzene	0.000		0	N.D.		
64) n-Nitrosodiphenylamine	0.000		0	N.D.		
66) 4-Bromophenyl-phenylether	0.000		0	N.D.		
67) Hexachlorobenzene	0.000		0	N.D.		
68) Atrazine	9.201	200	525704	16.059	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081616.D
Acq On : 9 Sep 2016 2:45 am
Operator : BNA8:ML
Sample : I809081614
Misc : WG930406,MSAK57
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 09:46:28 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Pentachlorophenol	0.000		0	N.D.		
70) Pentachloronitrobenzene	0.000		0	N.D.		
71) Phenanthrene	0.000		0	N.D.		
72) Anthracene	0.000		0	N.D.		
73) Carbazole	0.000		0	N.D.		
74) Di-n-butylphthalate	0.000		0	N.D.		
75) Fluoranthene	0.000		0	N.D.		
77) Benzidine	12.066	184	2139982	16.220	ug/mL	99
78) Pyrene	0.000		0	N.D.		
80) Butylbenzylphthalate	0.000		0	N.D.		
81) 3,3'-Dichlorobenzidine	14.936	252	998598	16.063	ug/mL	99
82) Benz[a]anthracene	0.000		0	N.D. d		
83) Chrysene	0.000		0	N.D. d		
84) bis(2-Ethylhexyl)phthalat	0.000		0	N.D. d		
86) Di-n-octylphthalate	0.000		0	N.D.		
87) Benzo[b]fluoranthene	0.000		0	N.D.		
88) Benzo[k]fluoranthene	0.000		0	N.D.		
89) Benzo[a]pyrene	0.000		0	N.D. d		
90) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
91) Dibenz[a,h]anthracene	0.000		0	N.D.		
92) Benzo[g,h,i]perylene	0.000		0	N.D.		

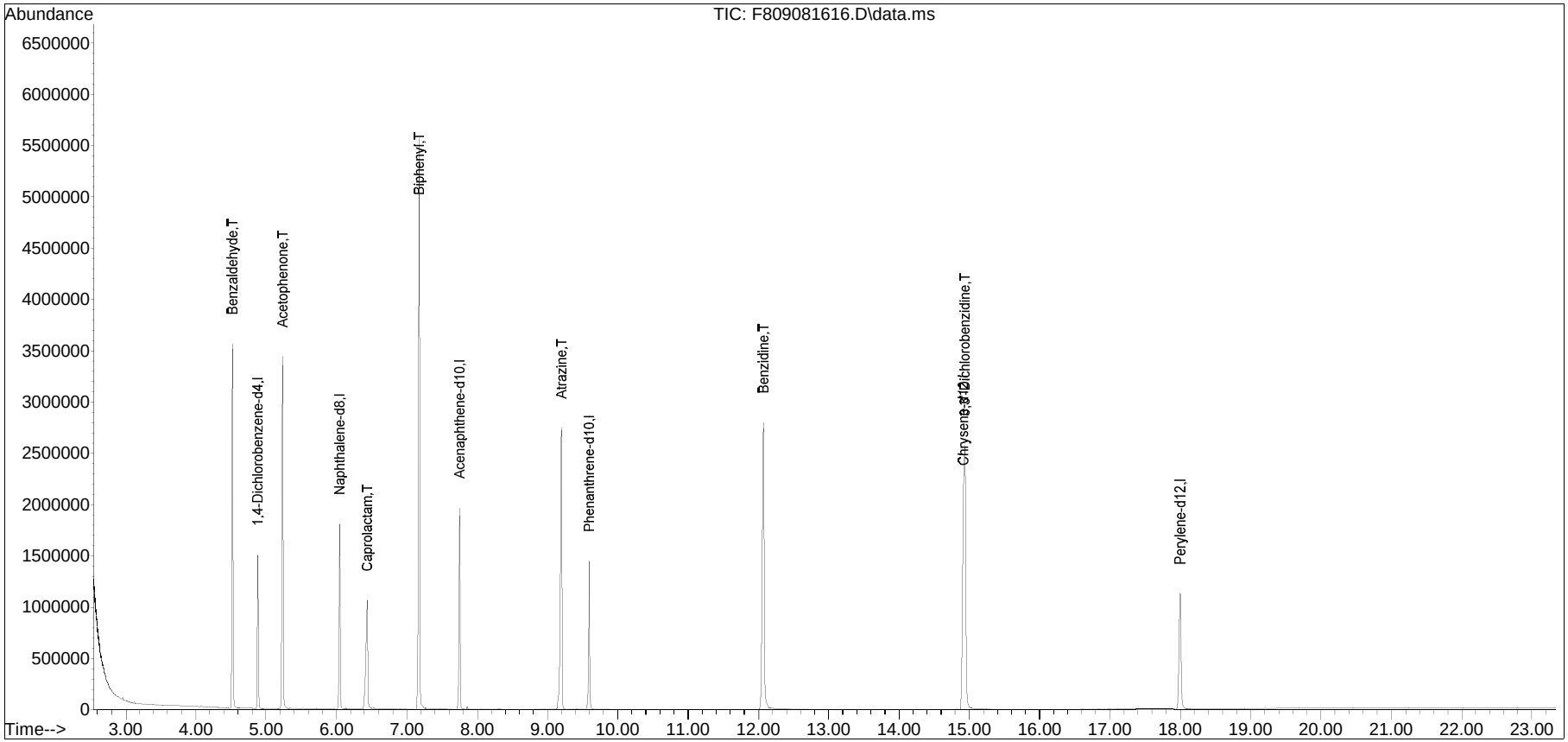
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081616.D
Acq On : 9 Sep 2016 2:45 am
Operator : BNA8:ML
Sample : I809081614
Misc : WG930406,MSAK57
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 09:46:28 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\BNA8\2016\	QMethod	: SV0908BNA8.M
Data File	: F809081616.D	Operator	: BNA8:ML
Date Inj'd	: 9/9/2016 2:45 am	Instrument	: BNA8
Sample	: I809081614	Quant Date	: 9/9/2016 7:49 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081617.D
Acq On : 9 Sep 2016 3:18 am
Operator : BNA8:ML
Sample : I809081615
Misc : WG930406,MSAK56
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:47:08 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	253808	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	960874	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	496372	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	777830	5.000	ug/mL	0.00
76) Chrysene-d12	14.912	240	726381	5.000	ug/mL	0.00
85) Perylene-d12	17.994	264	673952	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0	0.000	ug/mL	
Spiked Amount 20.000	Range 21 - 100		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 94		Recovery = 0.00%#			
22) Nitrobenzene-d5	0.000	82	0	0.000	ug/mL	
Spiked Amount 20.000	Range 35 - 114		Recovery = 0.00%#			
43) 2-Fluorobiphenyl	0.000	172	0	0.000	ug/mL	
Spiked Amount 20.000	Range 43 - 116		Recovery = 0.00%#			
65) 2,4,6-Tribromophenol	0.000	330	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 123		Recovery = 0.00%#			
79) Terphenyl-d14	0.000	244	0	0.000	ug/mL	
Spiked Amount 20.000	Range 33 - 141		Recovery = 0.00%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	0.000		0	N.D.		
5) Benzaldehyde	4.516	77	1116059	22.864	ug/ml	99
6) Aniline	0.000		0	N.D.		
7) bis(2-Chloroethyl)ether	0.000		0	N.D.		
9) Phenol	0.000		0	N.D.		
10) 2-Chlorophenol	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) Benzyl alcohol	0.000		0	N.D.		
15) bis(2-chloroisopropyl)eth	0.000		0	N.D. d		
16) 2-Methylphenol	0.000		0	N.D.		
17) Acetophenone	5.233	105	1930332	23.148	ug/ml	98
18) Hexachloroethane	0.000		0	N.D.		
19) N-Nitroso-di-n-propylamin	0.000		0	N.D.		
20) 4-Methylphenol	0.000		0	N.D.		
23) Nitrobenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081617.D
Acq On : 9 Sep 2016 3:18 am
Operator : BNA8:ML
Sample : I809081615
Misc : WG930406,MSAK56
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:47:08 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Isophorone	0.000		0	N.D.		
25) 2-Nitrophenol	0.000		0	N.D.		
26) 2,4-Dimethylphenol	0.000		0	N.D.		
27) Benzoic acid	0.000		0	N.D. d		
28) bis(2-Chloroethoxy)methan	0.000		0	N.D.		
29) 2,4-Dichlorophenol	0.000		0	N.D.		
30) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
31) Naphthalene	0.000		0	N.D.		
32) 2-Chloroaniline	0.000		0	N.D.		
33) 4-Chloroaniline	0.000		0	N.D.		
34) Hexachlorobutadiene	0.000		0	N.D.		
35) Caprolactam	6.452	113	480090	26.378	ug/ml	98
36) 4-Chloro-3-methylphenol	0.000		0	N.D.		
37) 2-Methylnaphthalene	0.000		0	N.D.		
39) 1,2,4,5-Tetrachlorobenzen	0.000		0	N.D.		
40) Hexachlorocyclopentadiene	0.000		0	N.D.		
41) 2,4,6-Trichlorophenol	0.000		0	N.D.		
42) 2,4,5-Trichlorophenol	0.000		0	N.D.		
44) Biphenyl	7.179	154	3257683	22.735	ug/ml	99
45) 2-Chloronaphthalene	0.000		0	N.D.		
46) 2-Nitroaniline	0.000		0	N.D. d		
47) Acenaphthylene	0.000		0	N.D.		
48) Dimethylphthalate	0.000		0	N.D.		
49) 2,6-Dinitrotoluene	0.000		0	N.D.		
50) Acenaphthene	0.000		0	N.D. d		
51) 3-Nitroaniline	0.000		0	N.D. d		
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) Dibenzofuran	0.000		0	N.D.		
54) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
55) 2,4-Dinitrotoluene	0.000		0	N.D.		
56) 4-Nitrophenol	0.000		0	N.D.		
57) Fluorene	0.000		0	N.D.		
58) 4-Chlorophenyl-phenylethe	0.000		0	N.D.		
59) Diethylphthalate	0.000		0	N.D.		
60) 4-Nitroaniline	0.000		0	N.D.		
62) 4,6-Dinitro-2-methylpheno	0.000		0	N.D.		
63) Azobenzene	0.000		0	N.D.		
64) n-Nitrosodiphenylamine	0.000		0	N.D.		
66) 4-Bromophenyl-phenylether	0.000		0	N.D.		
67) Hexachlorobenzene	0.000		0	N.D.		
68) Atrazine	9.206	200	826884	25.551	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081617.D
Acq On : 9 Sep 2016 3:18 am
Operator : BNA8:ML
Sample : I809081615
Misc : WG930406,MSAK56
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:47:08 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Pentachlorophenol	0.000		0	N.D.		
70) Pentachloronitrobenzene	0.000		0	N.D.		
71) Phenanthrene	0.000		0	N.D.		
72) Anthracene	0.000		0	N.D.		
73) Carbazole	0.000		0	N.D.		
74) Di-n-butylphthalate	0.000		0	N.D.		
75) Fluoranthene	0.000		0	N.D.		
77) Benzidine	12.076	184	3397228	26.229	ug/mL	100
78) Pyrene	0.000		0	N.D.		
80) Butylbenzylphthalate	0.000		0	N.D.		
81) 3,3'-Dichlorobenzidine	14.946	252	1628460	26.682	ug/mL	99
82) Benz[a]anthracene	0.000		0	N.D. d		
83) Chrysene	0.000		0	N.D. d		
84) bis(2-Ethylhexyl)phthalat	0.000		0	N.D. d		
86) Di-n-octylphthalate	0.000		0	N.D.		
87) Benzo[b]fluoranthene	0.000		0	N.D.		
88) Benzo[k]fluoranthene	0.000		0	N.D.		
89) Benzo[a]pyrene	0.000		0	N.D. d		
90) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
91) Dibenz[a,h]anthracene	0.000		0	N.D.		
92) Benzo[g,h,i]perylene	0.000		0	N.D.		

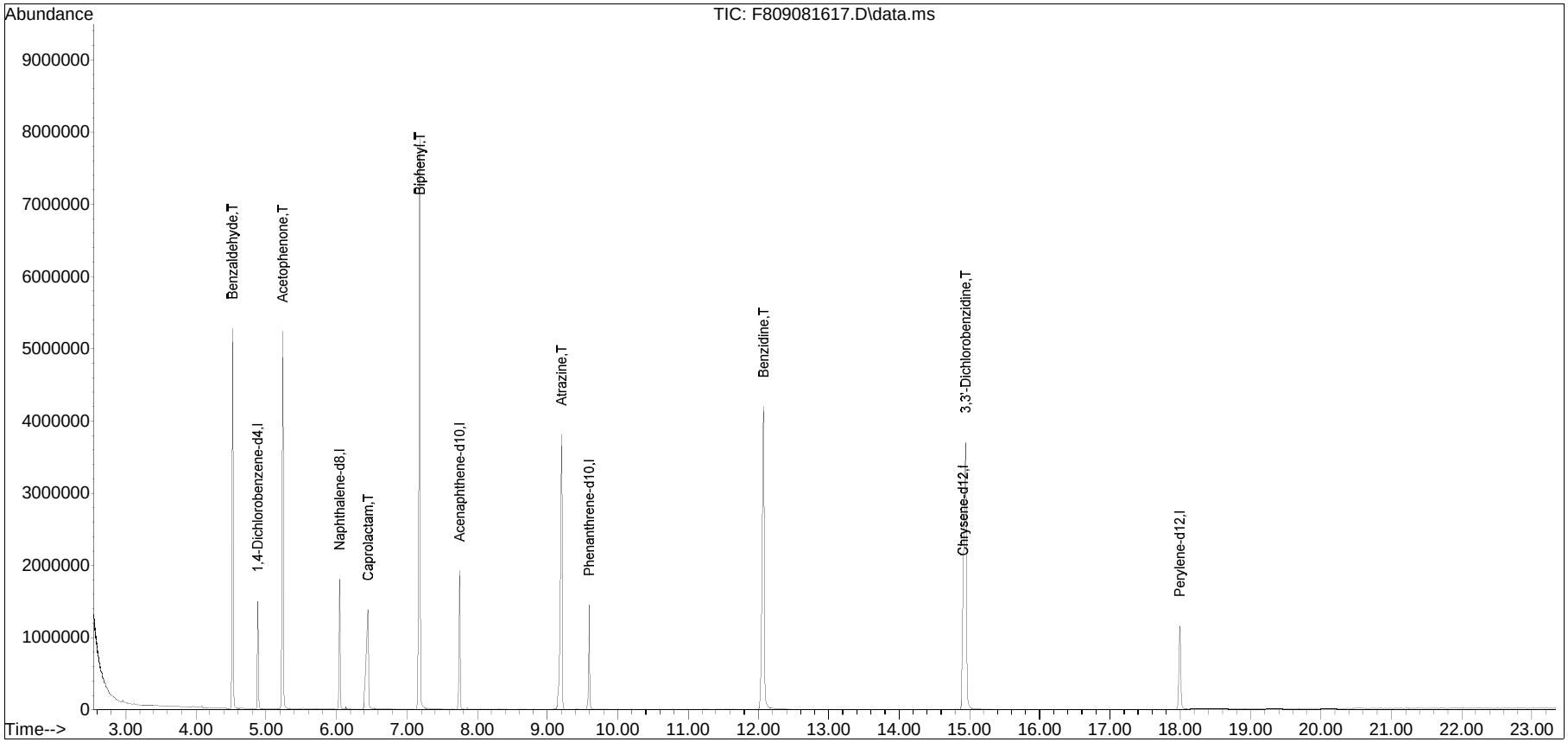
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081617.D
Acq On : 9 Sep 2016 3:18 am
Operator : BNA8:ML
Sample : I809081615
Misc : WG930406,MSAK56
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:47:08 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 07:47:56 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\BNA8\2016\	QMethod	: SV0908BNA8.M
Data File	: F809081617.D	Operator	: BNA8:ML
Date Inj'd	: 9/9/2016 3:18 am	Instrument	: BNA8
Sample	: I809081615	Quant Date	: 9/9/2016 7:49 am

There are no manual integrations or false positives in this file.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081618.D
Acq On : 9 Sep 2016 3:51 am
Operator : BNA8:ML
Sample : CQ809081601
Misc : WG930406,MSAJ17
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 09 11:16:02 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:10:33 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	120	0.00
2	T	N-Nitrosodimethylamine	0.601	0.000	100.0#	0#	-2.95#
3	t	Pyridine	1.172	0.000	100.0#	0#	-2.96#
4	S	2-Fluorophenol	1.201	0.000	100.0#	0#	-3.83#
5	T	Benzaldehyde	0.938	0.000	100.0#	0#	-4.51#
6	T	Aniline	1.765	0.000	100.0#	0#	-4.60#
7	T	bis(2-Chloroethyl)ether	0.749	0.000	100.0#	0#	-4.64#
8	S	Phenol-d5	1.455	0.000	100.0#	0#	-4.55#
9	MC	Phenol	1.491	0.000	100.0#	0#	-4.56#
10	M	2-Chlorophenol	1.351	0.000	100.0#	0#	-4.70#
11	T	1,3-Dichlorobenzene	1.491	0.000	100.0#	0#	-4.83#
12	MC	1,4-Dichlorobenzene	1.483	0.000	100.0#	0#	-4.89#
13	T	1,2-Dichlorobenzene	1.409	0.000	100.0#	0#	-5.03#
14	T	Benzyl alcohol	0.803	0.000	100.0#	0#	-5.00#
15	T	bis(2-chloroisopropyl)ether	1.040	0.000	100.0#	0#	-5.11#
16	T	2-Methylphenol	1.050	0.000	100.0#	0#	-5.09#
17	T	Acetophenone	1.604	0.000	100.0#	0#	-5.23#
18	T	Hexachloroethane	0.542	0.000	100.0#	0#	-5.33#
19	MP	N-Nitroso-di-n-propylamine	0.733	0.000	100.0#	0#	-5.23#
20	T	4-Methylphenol	1.134	0.000	100.0#	0#	-5.22#
21	I	Naphthalene-d8	1.000	1.000	0.0	120	0.00
22	S	Nitrobenzene-d5	0.292	0.000	100.0#	0#	-5.38#
23	T	Nitrobenzene	0.290	0.000	100.0#	0#	-5.39#
24	T	Isophorone	0.467	0.000	100.0#	0#	-5.61#
25	TC	2-Nitrophenol	0.190	0.000	100.0#	0#	-5.69#
26	T	2,4-Dimethylphenol	0.302	0.000	100.0#	0#	-5.71#
27	T	Benzoic acid	* 10.000	0.000	100.0#	0	-5.81#
28	T	bis(2-Chloroethoxy)methane	0.338	0.000	100.0#	0#	-5.80#
29	TC	2,4-Dichlorophenol	0.276	0.000	100.0#	0#	-5.91#
30	M	1,2,4-Trichlorobenzene	0.299	0.000	100.0#	0#	-5.98#
31	T	Naphthalene	0.961	0.000	100.0#	0#	-6.07#
32	T	2-Chloroaniline	0.485	0.000	100.0#	0#	-5.65#
33	T	4-Chloroaniline	0.414	0.000	100.0#	0#	-6.11#
34	TC	Hexachlorobutadiene	0.152	0.000	100.0#	0#	-6.17#
35	T	Caprolactam	0.089	0.000	100.0#	0#	-6.43#
36	MC	4-Chloro-3-methylphenol	0.266	0.000	100.0#	0#	-6.57#
37	T	2-Methylnaphthalene	0.652	0.000	100.0#	0#	-6.73#

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081618.D
Acq On : 9 Sep 2016 3:51 am
Operator : BNA8:ML
Sample : CQ809081601
Misc : WG930406,MSAJ17
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 09 11:16:02 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:10:33 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	I	Acenaphthene-d10	1.000	1.000	0.0	118	0.00
39	T	1,2,4,5-Tetrachlorobenzene	0.521	0.000	100.0#	0#	-6.88#
40	TP	Hexachlorocyclopentadiene	* 10.000	0.000	100.0#	0	-6.87#
41	TC	2,4,6-Trichlorophenol	0.375	0.000	100.0#	0#	-7.00#
42	T	2,4,5-Trichlorophenol	0.334	0.000	100.0#	0#	-7.03#
43	S	2-Fluorobiphenyl	1.262	0.000	100.0#	0#	-7.08#
44	T	Biphenyl	1.443	0.000	100.0#	0#	-7.17#
45	T	2-Chloronaphthalene	1.129	0.000	100.0#	0#	-7.20#
46	T	2-Nitroaniline	0.261	0.000	100.0#	0#	-7.30#
47	T	Acenaphthylene	1.867	0.000	100.0#	0#	-7.61#
48	T	Dimethylphthalate	1.214	0.000	100.0#	0#	-7.47#
49	T	2,6-Dinitrotoluene	0.282	0.000	100.0#	0#	-7.54#
50	MC	Acenaphthene	1.136	0.000	100.0#	0#	-7.79#
51	T	3-Nitroaniline	0.323	0.000	100.0#	0#	-7.71#
52	TP	2,4-Dinitrophenol	* 10.000	0.000	100.0#	0	-7.82#
53	T	Dibenzofuran	1.483	0.000	100.0#	0#	-7.97#
54		2,3,4,6-Tetrachlorophenol	0.225	0.000	100.0#	0#	-8.10#
55	M	2,4-Dinitrotoluene	0.362	0.000	100.0#	0#	-7.95#
56	MP	4-Nitrophenol	0.122	0.000	100.0#	0#	-7.90#
57	T	Fluorene	1.221	0.000	100.0#	0#	-8.35#
58	T	4-Chlorophenyl-phenylether	0.547	0.000	100.0#	0#	-8.35#
59	T	Diethylphthalate	1.241	0.000	100.0#	0#	-8.22#
60	T	4-Nitroaniline	0.333	0.000	100.0#	0#	-8.39#
61	I	Phenanthrene-d10	1.000	1.000	0.0	109	0.00
62	T	4,6-Dinitro-2-methylphenol	* 10.000	0.000	100.0#	0	-8.42#
63	T	Azobenzene	0.203	0.000	100.0#	0#	-8.54#
64	TC	n-Nitrosodiphenylamine	0.531	0.000	100.0#	0#	-8.49#
65	S	2,4,6-Tribromophenol	0.074	0.000	100.0#	0#	-8.65#
66	T	4-Bromophenyl-phenylether	0.186	0.000	100.0#	0#	-8.96#
67	T	Hexachlorobenzene	0.194	0.000	100.0#	0#	-9.04#
68	T	Atrazine	0.205	0.000	100.0#	0#	-9.20#
69	MC	Pentachlorophenol	* 10.000	0.000	100.0#	0	-9.32#
70	T	Pentachloronitrobenzene	0.077	0.000	100.0#	0#	-9.33#
71	T	Phenanthrene	1.087	0.000	100.0#	0#	-9.63#
72	T	Anthracene	1.074	0.000	100.0#	0#	-9.72#
73	T	Carbazole	1.031	0.000	100.0#	0#	-9.98#
74	T	Di-n-butylphthalate	1.247	0.000	100.0#	0#	-10.60#
75	TC	Fluoranthene	1.124	0.000	100.0#	0#	-11.73#

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081618.D
Acq On : 9 Sep 2016 3:51 am
Operator : BNA8:ML
Sample : CQ809081601
Misc : WG930406,MSAJ17
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 09 11:16:02 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:10:33 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
76	I	Chrysene-d12	1.000	1.000	0.0	113	0.00
77	T	Benzidine	0.826	0.853	-3.3	96	0.00
78	M	Pyrene	1.248	0.000	100.0#	0#	-12.18#
79	S	Terphenyl-d14	0.782	0.000	100.0#	0#	-12.58#
80	T	Butylbenzylphthalate	0.612	0.000	100.0#	0#	-13.77#
81	T	3,3'-Dichlorobenzidine	0.410	0.000	100.0#	0#	-14.93#
82	T	Benz[a]anthracene	1.183	0.000	100.0#	0#	-14.91#
83	T	Chrysene	1.098	0.000	100.0#	0#	-14.99#
84	T	bis(2-Ethylhexyl)phthalate	0.806	0.000	100.0#	0#	-15.23#
85	I	Perylene-d12	1.000	1.000	0.0	113	0.00
86	TC	Di-n-octylphthalate	1.588	0.000	100.0#	0#	-16.73#
87	T	Benzo[b]fluoranthene	1.221	0.000	100.0#	0#	-17.28#
88	T	Benzo[k]fluoranthene	1.116	0.000	100.0#	0#	-17.33#
89	TC	Benzo[a]pyrene	1.150	0.000	100.0#	0#	-17.90#
90	T	Indeno[1,2,3-cd]pyrene	1.000	0.000	100.0#	0#	-19.83#
91	T	Dibenz[a,h]anthracene	1.008	0.000	100.0#	0#	-19.88#
92	T	Benzo[g,h,i]perylene	1.082	0.000	100.0#	0#	-20.28#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 13

Mass Discrimination (Concentration)	Ratio	Range Limits
Benzo[g,h,i]perylene to Phenanthrene	0.000	0.70 - 1.30

Mass Discrimination (Response)	Ratio	Range Limits
Benzo[g,h,i]perylene to Phenanthrene	0.000	0.70 - 2.00

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081618.D
Acq On : 9 Sep 2016 3:51 am
Operator : BNA8:ML
Sample : CQ809081601
Misc : WG930406,MSAJ17
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 09 11:16:02 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:10:33 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	260798	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	985704	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	525233	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	805634	5.000	ug/mL	0.00
76) Chrysene-d12	14.917	240	766668	5.000	ug/mL	0.00
85) Perylene-d12	17.994	264	684706	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0	0.000	ug/mL	
Spiked Amount 20.000	Range 21 - 100		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 94		Recovery = 0.00%#			
22) Nitrobenzene-d5	0.000	82	0	0.000	ug/mL	
Spiked Amount 20.000	Range 35 - 114		Recovery = 0.00%#			
43) 2-Fluorobiphenyl	0.000	172	0	0.000	ug/mL	
Spiked Amount 20.000	Range 43 - 116		Recovery = 0.00%#			
65) 2,4,6-Tribromophenol	0.000	330	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 123		Recovery = 0.00%#			
79) Terphenyl-d14	0.000	244	0	0.000	ug/mL	
Spiked Amount 20.000	Range 33 - 141		Recovery = 0.00%#			

Target Compounds			Qvalue
2) N-Nitrosodimethylamine	0.000	0	N.D.
3) Pyridine	0.000	0	N.D.
5) Benzaldehyde	0.000	0	N.D.
6) Aniline	0.000	0	N.D.
7) bis(2-Chloroethyl)ether	0.000	0	N.D.
9) Phenol	0.000	0	N.D.
10) 2-Chlorophenol	0.000	0	N.D.
11) 1,3-Dichlorobenzene	0.000	0	N.D.
12) 1,4-Dichlorobenzene	0.000	0	N.D.
13) 1,2-Dichlorobenzene	0.000	0	N.D.
14) Benzyl alcohol	0.000	0	N.D. d
15) bis(2-chloroisopropyl)eth	0.000	0	N.D.
16) 2-Methylphenol	0.000	0	N.D.
17) Acetophenone	0.000	0	N.D.
18) Hexachloroethane	0.000	0	N.D.
19) N-Nitroso-di-n-propylamin	0.000	0	N.D.
20) 4-Methylphenol	0.000	0	N.D.
23) Nitrobenzene	0.000	0	N.D.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081618.D
Acq On : 9 Sep 2016 3:51 am
Operator : BNA8:ML
Sample : CQ809081601
Misc : WG930406,MSAJ17
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 09 11:16:02 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:10:33 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Isophorone	0.000		0		N.D.	
25) 2-Nitrophenol	0.000		0		N.D.	
26) 2,4-Dimethylphenol	0.000		0		N.D.	
27) Benzoic acid	0.000		0		N.D.	
28) bis(2-Chloroethoxy)methan	0.000		0		N.D.	
29) 2,4-Dichlorophenol	0.000		0		N.D.	
30) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
31) Naphthalene	0.000		0		N.D.	
32) 2-Chloroaniline	0.000		0		N.D.	
33) 4-Chloroaniline	0.000		0		N.D.	
34) Hexachlorobutadiene	0.000		0		N.D.	
35) Caprolactam	0.000		0		N.D.	
36) 4-Chloro-3-methylphenol	0.000		0		N.D.	
37) 2-Methylnaphthalene	0.000		0		N.D.	
39) 1,2,4,5-Tetrachlorobenzen	0.000		0		N.D.	
40) Hexachlorocyclopentadiene	0.000		0		N.D.	
41) 2,4,6-Trichlorophenol	0.000		0		N.D.	
42) 2,4,5-Trichlorophenol	0.000		0		N.D.	
44) Biphenyl	0.000		0		N.D.	
45) 2-Chloronaphthalene	0.000		0		N.D.	
46) 2-Nitroaniline	0.000		0		N.D.	
47) Acenaphthylene	0.000		0		N.D.	
48) Dimethylphthalate	0.000		0		N.D.	
49) 2,6-Dinitrotoluene	0.000		0		N.D.	
50) Acenaphthene	0.000		0		N.D.	
51) 3-Nitroaniline	0.000		0		N.D.	d
52) 2,4-Dinitrophenol	0.000		0		N.D.	
53) Dibenzofuran	0.000		0		N.D.	
54) 2,3,4,6-Tetrachlorophenol	0.000		0		N.D.	
55) 2,4-Dinitrotoluene	0.000		0		N.D.	
56) 4-Nitrophenol	0.000		0		N.D.	
57) Fluorene	0.000		0		N.D.	
58) 4-Chlorophenyl-phenylethe	0.000		0		N.D.	
59) Diethylphthalate	0.000		0		N.D.	
60) 4-Nitroaniline	0.000		0		N.D.	
62) 4,6-Dinitro-2-methylpheno	0.000		0		N.D.	
63) Azobenzene	0.000		0		N.D.	
64) n-Nitrosodiphenylamine	0.000		0		N.D.	
66) 4-Bromophenyl-phenylether	0.000		0		N.D.	
67) Hexachlorobenzene	0.000		0		N.D.	
68) Atrazine	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081618.D
Acq On : 9 Sep 2016 3:51 am
Operator : BNA8:ML
Sample : CQ809081601
Misc : WG930406,MSAJ17
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 09 11:16:02 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:10:33 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Pentachlorophenol	0.000		0	N.D.		
70) Pentachloronitrobenzene	0.000		0	N.D.		
71) Phenanthrene	0.000		0	N.D.		
72) Anthracene	0.000		0	N.D.		
73) Carbazole	0.000		0	N.D.		
74) Di-n-butylphthalate	0.000		0	N.D.		
75) Fluoranthene	0.000		0	N.D.		
77) Benzidine	12.057	184	1307344	10.327	ug/mL	100
78) Pyrene	0.000		0	N.D.		
80) Butylbenzylphthalate	0.000		0	N.D.		
81) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
82) Benz[a]anthracene	0.000		0	N.D.	d	
83) Chrysene	0.000		0	N.D.	d	
84) bis(2-Ethylhexyl)phthalat	0.000		0	N.D.		
86) Di-n-octylphthalate	0.000		0	N.D.		
87) Benzo[b]fluoranthene	0.000		0	N.D.		
88) Benzo[k]fluoranthene	0.000		0	N.D.		
89) Benzo[a]pyrene	0.000		0	N.D.	d	
90) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
91) Dibenz[a,h]anthracene	0.000		0	N.D.		
92) Benzo[g,h,i]perylene	0.000		0	N.D.		

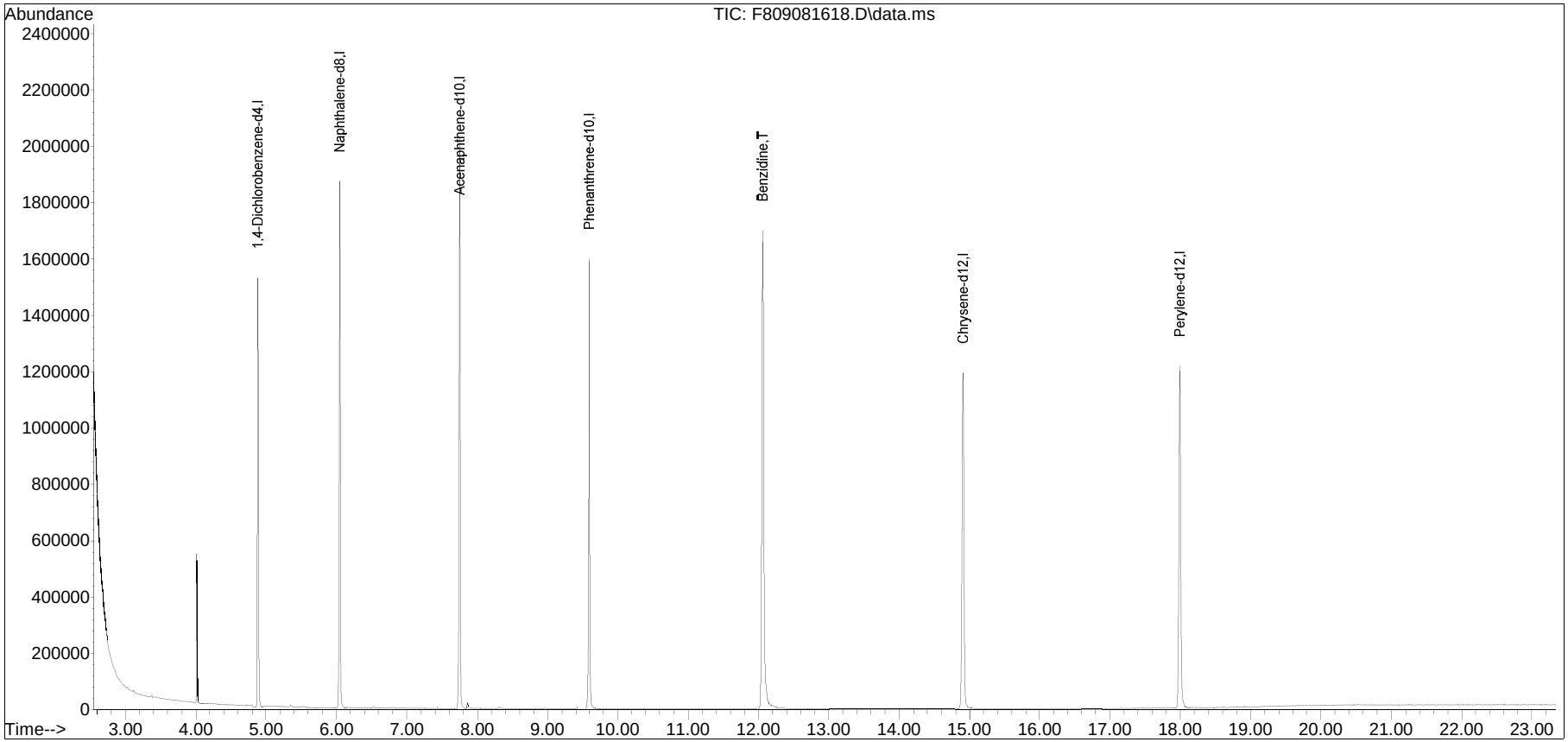
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081618.D
Acq On : 9 Sep 2016 3:51 am
Operator : BNA8:ML
Sample : CQ809081601
Misc : WG930406,MSAJ17
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 09 11:16:02 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:10:33 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\BNA8\2016\	QMethod	: SV0908BNA8.M
Data File	: F809081618.D	Operator	: BNA8:ML
Date Inj'd	: 9/9/2016 3:51 am	Instrument	: BNA8
Sample	: CQ809081601	Quant Date	: 9/9/2016 11:15 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081619.D
Acq On : 9 Sep 2016 4:24 am
Operator : BNA8:ML
Sample : CQ809081602
Misc : WG930406,MSAK33
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 11:16:28 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	120	0.00
2	T	N-Nitrosodimethylamine	0.601	0.000	100.0#	0#	-2.95#
3	t	Pyridine	1.172	0.000	100.0#	0#	-2.96#
4	S	2-Fluorophenol	1.201	0.000	100.0#	0#	-3.83#
5	T	Benzaldehyde	0.938	0.000	100.0#	0#	-4.51#
6	T	Aniline	1.765	0.000	100.0#	0#	-4.60#
7	T	bis(2-Chloroethyl)ether	0.749	0.000	100.0#	0#	-4.64#
8	S	Phenol-d5	1.455	0.000	100.0#	0#	-4.55#
9	MC	Phenol	1.491	0.000	100.0#	0#	-4.56#
10	M	2-Chlorophenol	1.351	0.000	100.0#	0#	-4.70#
11	T	1,3-Dichlorobenzene	1.491	0.000	100.0#	0#	-4.83#
12	MC	1,4-Dichlorobenzene	1.483	0.000	100.0#	0#	-4.89#
13	T	1,2-Dichlorobenzene	1.409	0.000	100.0#	0#	-5.03#
14	T	Benzyl alcohol	0.803	0.000	100.0#	0#	-5.00#
15	T	bis(2-chloroisopropyl)ether	1.040	0.000	100.0#	0#	-5.11#
16	T	2-Methylphenol	1.050	0.000	100.0#	0#	-5.09#
17	T	Acetophenone	1.604	0.000	100.0#	0#	-5.23#
18	T	Hexachloroethane	0.542	0.000	100.0#	0#	-5.33#
19	MP	N-Nitroso-di-n-propylamine	0.733	0.000	100.0#	0#	-5.23#
20	T	4-Methylphenol	1.134	0.000	100.0#	0#	-5.22#
21	I	Naphthalene-d8	1.000	1.000	0.0	120	0.00
22	S	Nitrobenzene-d5	0.292	0.000	100.0#	0#	-5.38#
23	T	Nitrobenzene	0.290	0.000	100.0#	0#	-5.39#
24	T	Isophorone	0.467	0.000	100.0#	0#	-5.61#
25	TC	2-Nitrophenol	0.190	0.000	100.0#	0#	-5.69#
26	T	2,4-Dimethylphenol	0.302	0.000	100.0#	0#	-5.71#
27	T	Benzoic acid	* 10.000	7.965	20.4	59	0.00
28	T	bis(2-Chloroethoxy)methane	0.338	0.000	100.0#	0#	-5.80#
29	TC	2,4-Dichlorophenol	0.276	0.000	100.0#	0#	-5.91#
30	M	1,2,4-Trichlorobenzene	0.299	0.000	100.0#	0#	-5.98#
31	T	Naphthalene	0.961	0.000	100.0#	0#	-6.07#
32	T	2-Chloroaniline	0.485	0.000	100.0#	0#	-5.65#
33	T	4-Chloroaniline	0.414	0.000	100.0#	0#	-6.11#
34	TC	Hexachlorobutadiene	0.152	0.000	100.0#	0#	-6.17#
35	T	Caprolactam	0.089	0.000	100.0#	0#	-6.43#
36	MC	4-Chloro-3-methylphenol	0.266	0.000	100.0#	0#	-6.57#
37	T	2-Methylnaphthalene	0.652	0.000	100.0#	0#	-6.73#

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081619.D
Acq On : 9 Sep 2016 4:24 am
Operator : BNA8:ML
Sample : CQ809081602
Misc : WG930406,MSAK33
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 11:16:28 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	I	Acenaphthene-d10	1.000	1.000	0.0	117	0.00
39	T	1,2,4,5-Tetrachlorobenzene	0.521	0.000	100.0#	0#	-6.88#
40	TP	Hexachlorocyclopentadiene	* 10.000	0.000	100.0#	0	-6.87#
41	TC	2,4,6-Trichlorophenol	0.375	0.000	100.0#	0#	-7.00#
42	T	2,4,5-Trichlorophenol	0.334	0.000	100.0#	0#	-7.03#
43	S	2-Fluorobiphenyl	1.262	0.000	100.0#	0#	-7.08#
44	T	Biphenyl	1.443	0.000	100.0#	0#	-7.17#
45	T	2-Chloronaphthalene	1.129	0.000	100.0#	0#	-7.20#
46	T	2-Nitroaniline	0.261	0.000	100.0#	0#	-7.30#
47	T	Acenaphthylene	1.867	0.000	100.0#	0#	-7.61#
48	T	Dimethylphthalate	1.214	0.000	100.0#	0#	-7.47#
49	T	2,6-Dinitrotoluene	0.282	0.000	100.0#	0#	-7.54#
50	MC	Acenaphthene	1.136	0.000	100.0#	0#	-7.79#
51	T	3-Nitroaniline	0.323	0.000	100.0#	0#	-7.71#
52	TP	2,4-Dinitrophenol	* 10.000	0.000	100.0#	0	-7.82#
53	T	Dibenzofuran	1.483	0.000	100.0#	0#	-7.97#
54		2,3,4,6-Tetrachlorophenol	0.225	0.000	100.0#	0#	-8.10#
55	M	2,4-Dinitrotoluene	0.362	0.000	100.0#	0#	-7.95#
56	MP	4-Nitrophenol	0.122	0.000	100.0#	0#	-7.90#
57	T	Fluorene	1.221	0.000	100.0#	0#	-8.35#
58	T	4-Chlorophenyl-phenylether	0.547	0.000	100.0#	0#	-8.35#
59	T	Diethylphthalate	1.241	0.000	100.0#	0#	-8.22#
60	T	4-Nitroaniline	0.333	0.000	100.0#	0#	-8.39#
61	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00
62	T	4,6-Dinitro-2-methylphenol	* 10.000	0.000	100.0#	0	-8.42#
63	T	Azobenzene	0.203	0.000	100.0#	0#	-8.54#
64	TC	n-Nitrosodiphenylamine	0.531	0.000	100.0#	0#	-8.49#
65	S	2,4,6-Tribromophenol	0.074	0.000	100.0#	0#	-8.65#
66	T	4-Bromophenyl-phenylether	0.186	0.000	100.0#	0#	-8.96#
67	T	Hexachlorobenzene	0.194	0.000	100.0#	0#	-9.04#
68	T	Atrazine	0.205	0.000	100.0#	0#	-9.20#
69	MC	Pentachlorophenol	* 10.000	0.000	100.0#	0	-9.32#
70	T	Pentachloronitrobenzene	0.077	0.000	100.0#	0#	-9.33#
71	T	Phenanthrene	1.087	0.000	100.0#	0#	-9.63#
72	T	Anthracene	1.074	0.000	100.0#	0#	-9.72#
73	T	Carbazole	1.031	0.000	100.0#	0#	-9.98#
74	T	Di-n-butylphthalate	1.247	0.000	100.0#	0#	-10.60#
75	TC	Fluoranthene	1.124	0.000	100.0#	0#	-11.73#

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081619.D
Acq On : 9 Sep 2016 4:24 am
Operator : BNA8:ML
Sample : CQ809081602
Misc : WG930406,MSAK33
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 11:16:28 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
76	I	Chrysene-d12	1.000	1.000	0.0	113	0.00
77	T	Benzidine	0.826	0.000	100.0#	0#	-12.06#
78	M	Pyrene	1.248	0.000	100.0#	0#	-12.18#
79	S	Terphenyl-d14	0.782	0.000	100.0#	0#	-12.58#
80	T	Butylbenzylphthalate	0.612	0.000	100.0#	0#	-13.77#
81	T	3,3'-Dichlorobenzidine	0.410	0.000	100.0#	0#	-14.93#
82	T	Benz[a]anthracene	1.183	0.000	100.0#	0#	-14.91#
83	T	Chrysene	1.098	0.000	100.0#	0#	-14.99#
84	T	bis(2-Ethylhexyl)phthalate	0.806	0.000	100.0#	0#	-15.23#
85	I	Perylene-d12	1.000	1.000	0.0	112	0.00
86	TC	Di-n-octylphthalate	1.588	0.000	100.0#	0#	-16.73#
87	T	Benzo[b]fluoranthene	1.221	0.000	100.0#	0#	-17.28#
88	T	Benzo[k]fluoranthene	1.116	0.000	100.0#	0#	-17.33#
89	TC	Benzo[a]pyrene	1.150	0.000	100.0#	0#	-17.90#
90	T	Indeno[1,2,3-cd]pyrene	1.000	0.000	100.0#	0#	-19.83#
91	T	Dibenz[a,h]anthracene	1.008	0.000	100.0#	0#	-19.88#
92	T	Benzo[g,h,i]perylene	1.082	0.000	100.0#	0#	-20.28#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 13

Mass Discrimination (Concentration)	Ratio	Range Limits
Benzo[g,h,i]perylene to Phenanthrene	0.000	0.70 - 1.30

Mass Discrimination (Response)	Ratio	Range Limits
Benzo[g,h,i]perylene to Phenanthrene	0.000	0.70 - 2.00

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081619.D
Acq On : 9 Sep 2016 4:24 am
Operator : BNA8:ML
Sample : CQ809081602
Misc : WG930406,MSAK33
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 11:16:28 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	260933	5.000	ug/mL	0.00
21) Naphthalene-d8	6.043	136	984525	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	518173	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	822440	5.000	ug/mL	0.00
76) Chrysene-d12	14.917	240	771127	5.000	ug/mL	0.00
85) Perylene-d12	17.994	264	679785	5.000	ug/mL	0.00

System Monitoring Compounds

4) 2-Fluorophenol	0.000	112	0	0.000	ug/mL	
Spiked Amount 20.000	Range 21 - 100		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 94		Recovery = 0.00%#			
22) Nitrobenzene-d5	0.000	82	0	0.000	ug/mL	
Spiked Amount 20.000	Range 35 - 114		Recovery = 0.00%#			
43) 2-Fluorobiphenyl	0.000	172	0	0.000	ug/mL	
Spiked Amount 20.000	Range 43 - 116		Recovery = 0.00%#			
65) 2,4,6-Tribromophenol	0.000	330	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 123		Recovery = 0.00%#			
79) Terphenyl-d14	0.000	244	0	0.000	ug/mL	
Spiked Amount 20.000	Range 33 - 141		Recovery = 0.00%#			

Target Compounds			Qvalue
2) N-Nitrosodimethylamine	0.000	0	N.D.
3) Pyridine	0.000	0	N.D.
5) Benzaldehyde	0.000	0	N.D.
6) Aniline	0.000	0	N.D.
7) bis(2-Chloroethyl)ether	0.000	0	N.D.
9) Phenol	0.000	0	N.D.
10) 2-Chlorophenol	0.000	0	N.D.
11) 1,3-Dichlorobenzene	0.000	0	N.D.
12) 1,4-Dichlorobenzene	0.000	0	N.D.
13) 1,2-Dichlorobenzene	0.000	0	N.D.
14) Benzyl alcohol	0.000	0	N.D.
15) bis(2-chloroisopropyl)eth	0.000	0	N.D.
16) 2-Methylphenol	0.000	0	N.D.
17) Acetophenone	0.000	0	N.D.
18) Hexachloroethane	0.000	0	N.D.
19) N-Nitroso-di-n-propylamin	0.000	0	N.D.
20) 4-Methylphenol	0.000	0	N.D.
23) Nitrobenzene	0.000	0	N.D.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081619.D
Acq On : 9 Sep 2016 4:24 am
Operator : BNA8:ML
Sample : CQ809081602
Misc : WG930406,MSAK33
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 11:16:28 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Isophorone	0.000		0	N.D.		
25) 2-Nitrophenol	0.000		0	N.D.		
26) 2,4-Dimethylphenol	0.000		0	N.D.		
27) Benzoic acid	5.807	105	49165	7.965	ug/mL	91
28) bis(2-Chloroethoxy)methan	0.000		0	N.D.		
29) 2,4-Dichlorophenol	0.000		0	N.D.		
30) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
31) Naphthalene	0.000		0	N.D.		
32) 2-Chloroaniline	0.000		0	N.D.		
33) 4-Chloroaniline	0.000		0	N.D.		
34) Hexachlorobutadiene	0.000		0	N.D.		
35) Caprolactam	0.000		0	N.D.		
36) 4-Chloro-3-methylphenol	0.000		0	N.D.		
37) 2-Methylnaphthalene	0.000		0	N.D.		
39) 1,2,4,5-Tetrachlorobenzen	0.000		0	N.D.		
40) Hexachlorocyclopentadiene	0.000		0	N.D.		
41) 2,4,6-Trichlorophenol	0.000		0	N.D.		
42) 2,4,5-Trichlorophenol	0.000		0	N.D.		
44) Biphenyl	0.000		0	N.D.		
45) 2-Chloronaphthalene	0.000		0	N.D.		
46) 2-Nitroaniline	0.000		0	N.D.		
47) Acenaphthylene	0.000		0	N.D.		
48) Dimethylphthalate	0.000		0	N.D.		
49) 2,6-Dinitrotoluene	0.000		0	N.D.		
50) Acenaphthene	0.000		0	N.D.		
51) 3-Nitroaniline	0.000		0	N.D. d		
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) Dibenzofuran	0.000		0	N.D.		
54) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
55) 2,4-Dinitrotoluene	0.000		0	N.D.		
56) 4-Nitrophenol	0.000		0	N.D.		
57) Fluorene	0.000		0	N.D.		
58) 4-Chlorophenyl-phenylethe	0.000		0	N.D.		
59) Diethylphthalate	0.000		0	N.D.		
60) 4-Nitroaniline	0.000		0	N.D.		
62) 4,6-Dinitro-2-methylpheno	0.000		0	N.D.		
63) Azobenzene	0.000		0	N.D.		
64) n-Nitrosodiphenylamine	0.000		0	N.D.		
66) 4-Bromophenyl-phenylether	0.000		0	N.D.		
67) Hexachlorobenzene	0.000		0	N.D.		
68) Atrazine	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081619.D
Acq On : 9 Sep 2016 4:24 am
Operator : BNA8:ML
Sample : CQ809081602
Misc : WG930406,MSAK33
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 11:16:28 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
69) Pentachlorophenol	0.000		0	N.D.	
70) Pentachloronitrobenzene	0.000		0	N.D.	
71) Phenanthrene	0.000		0	N.D.	
72) Anthracene	0.000		0	N.D.	
73) Carbazole	0.000		0	N.D.	
74) Di-n-butylphthalate	0.000		0	N.D.	
75) Fluoranthene	0.000		0	N.D.	
77) Benzidine	0.000		0	N.D.	
78) Pyrene	0.000		0	N.D.	
80) Butylbenzylphthalate	0.000		0	N.D.	
81) 3,3'-Dichlorobenzidine	0.000		0	N.D.	
82) Benz[a]anthracene	0.000		0	N.D.	d
83) Chrysene	0.000		0	N.D.	d
84) bis(2-Ethylhexyl)phthalat	0.000		0	N.D.	
86) Di-n-octylphthalate	0.000		0	N.D.	
87) Benzo[b]fluoranthene	0.000		0	N.D.	
88) Benzo[k]fluoranthene	0.000		0	N.D.	
89) Benzo[a]pyrene	0.000		0	N.D.	d
90) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	
91) Dibenz[a,h]anthracene	0.000		0	N.D.	
92) Benzo[g,h,i]perylene	0.000		0	N.D.	

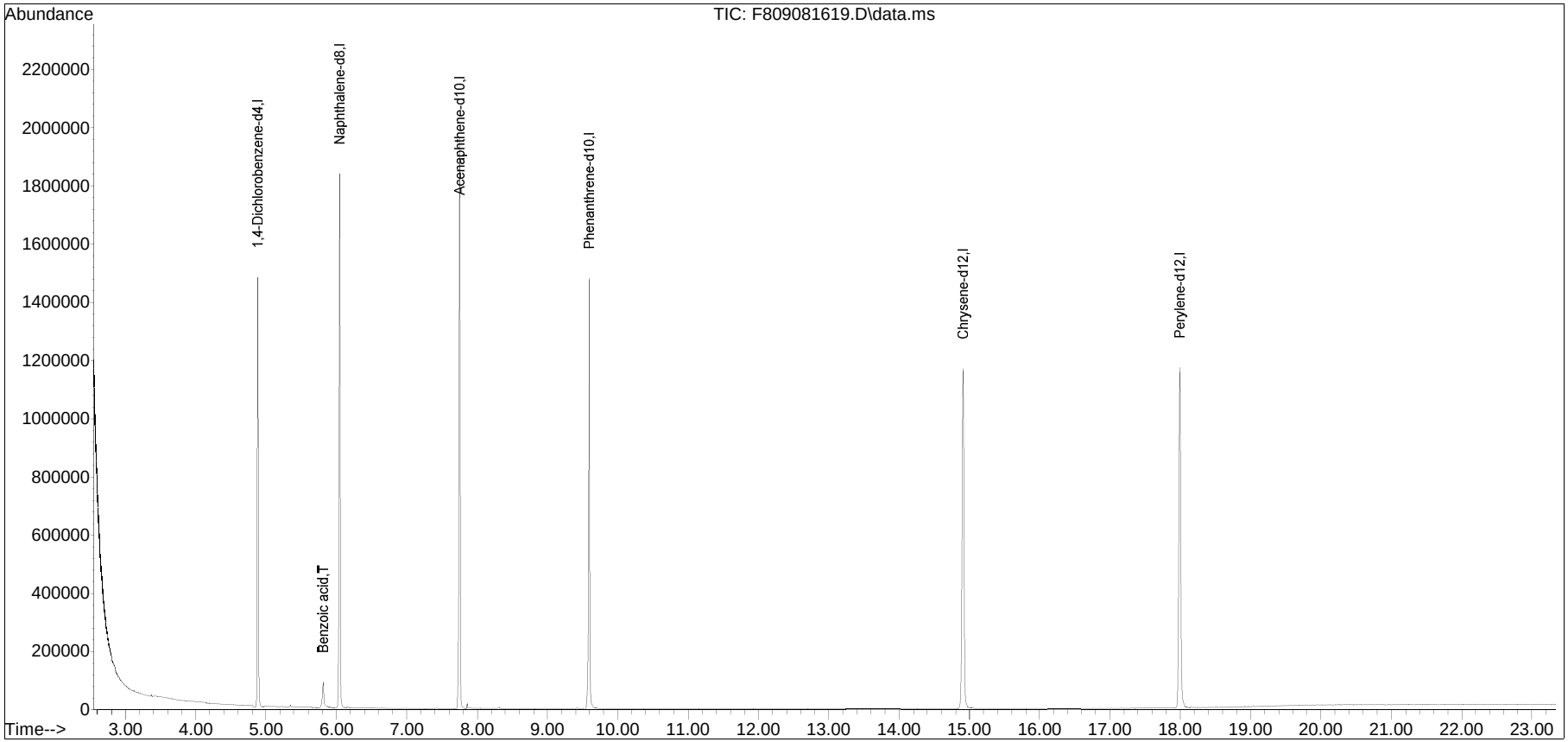
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081619.D
Acq On : 9 Sep 2016 4:24 am
Operator : BNA8:ML
Sample : CQ809081602
Misc : WG930406,MSAK33
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 11:16:28 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\BNA8\2016\	QMethod	: SV0908BNA8.M
Data File	: F809081619.D	Operator	: BNA8:ML
Date Inj'd	: 9/9/2016 4:24 am	Instrument	: BNA8
Sample	: CQ809081602	Quant Date	: 9/9/2016 11:15 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081620.D
Acq On : 9 Sep 2016 4:56 am
Operator : BNA8:ML
Sample : CQ809081603
Misc : WG930406,MSAJ83
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 11:17:40 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	125	0.00
2	T	N-Nitrosodimethylamine	0.601	0.000	100.0#	0#	-2.95#
3	t	Pyridine	1.172	0.000	100.0#	0#	-2.96#
4	S	2-Fluorophenol	1.201	0.000	100.0#	0#	-3.83#
5	T	Benzaldehyde	0.938	0.920	1.9	100	0.00
6	T	Aniline	1.765	0.000	100.0#	0#	-4.60#
7	T	bis(2-Chloroethyl)ether	0.749	0.000	100.0#	0#	-4.64#
8	S	Phenol-d5	1.455	0.000	100.0#	0#	-4.55#
9	MC	Phenol	1.491	0.000	100.0#	0#	-4.56#
10	M	2-Chlorophenol	1.351	0.000	100.0#	0#	-4.70#
11	T	1,3-Dichlorobenzene	1.491	0.000	100.0#	0#	-4.83#
12	MC	1,4-Dichlorobenzene	1.483	0.000	100.0#	0#	-4.89#
13	T	1,2-Dichlorobenzene	1.409	0.000	100.0#	0#	-5.03#
14	T	Benzyl alcohol	0.803	0.000	100.0#	0#	-5.00#
15	T	bis(2-chloroisopropyl)ether	1.040	0.000	100.0#	0#	-5.11#
16	T	2-Methylphenol	1.050	0.000	100.0#	0#	-5.09#
17	T	Acetophenone	1.604	0.000	100.0#	0#	-5.23#
18	T	Hexachloroethane	0.542	0.000	100.0#	0#	-5.33#
19	MP	N-Nitroso-di-n-propylamine	0.733	0.000	100.0#	0#	-5.23#
20	T	4-Methylphenol	1.134	0.000	100.0#	0#	-5.22#
21	I	Naphthalene-d8	1.000	1.000	0.0	124	0.00
22	S	Nitrobenzene-d5	0.292	0.000	100.0#	0#	-5.38#
23	T	Nitrobenzene	0.290	0.000	100.0#	0#	-5.39#
24	T	Isophorone	0.467	0.000	100.0#	0#	-5.61#
25	TC	2-Nitrophenol	0.190	0.000	100.0#	0#	-5.69#
26	T	2,4-Dimethylphenol	0.302	0.000	100.0#	0#	-5.71#
27	T	Benzoic acid	* 10.000	0.000	100.0#	0	-5.81#
28	T	bis(2-Chloroethoxy)methane	0.338	0.000	100.0#	0#	-5.80#
29	TC	2,4-Dichlorophenol	0.276	0.000	100.0#	0#	-5.91#
30	M	1,2,4-Trichlorobenzene	0.299	0.000	100.0#	0#	-5.98#
31	T	Naphthalene	0.961	0.000	100.0#	0#	-6.07#
32	T	2-Chloroaniline	0.485	0.000	100.0#	0#	-5.65#
33	T	4-Chloroaniline	0.414	0.000	100.0#	0#	-6.11#
34	TC	Hexachlorobutadiene	0.152	0.000	100.0#	0#	-6.17#
35	T	Caprolactam	0.089	0.000	100.0#	0#	-6.43#
36	MC	4-Chloro-3-methylphenol	0.266	0.000	100.0#	0#	-6.57#
37	T	2-Methylnaphthalene	0.652	0.000	100.0#	0#	-6.73#

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081620.D
Acq On : 9 Sep 2016 4:56 am
Operator : BNA8:ML
Sample : CQ809081603
Misc : WG930406,MSAJ83
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 11:17:40 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	I	Acenaphthene-d10	1.000	1.000	0.0	121	0.00
39	T	1,2,4,5-Tetrachlorobenzene	0.521	0.000	100.0#	0#	-6.88#
40	TP	Hexachlorocyclopentadiene	* 10.000	0.000	100.0#	0	-6.87#
41	TC	2,4,6-Trichlorophenol	0.375	0.000	100.0#	0#	-7.00#
42	T	2,4,5-Trichlorophenol	0.334	0.000	100.0#	0#	-7.03#
43	S	2-Fluorobiphenyl	1.262	0.000	100.0#	0#	-7.08#
44	T	Biphenyl	1.443	0.000	100.0#	0#	-7.17#
45	T	2-Chloronaphthalene	1.129	0.000	100.0#	0#	-7.20#
46	T	2-Nitroaniline	0.261	0.000	100.0#	0#	-7.30#
47	T	Acenaphthylene	1.867	0.000	100.0#	0#	-7.61#
48	T	Dimethylphthalate	1.214	0.000	100.0#	0#	-7.47#
49	T	2,6-Dinitrotoluene	0.282	0.000	100.0#	0#	-7.54#
50	MC	Acenaphthene	1.136	0.000	100.0#	0#	-7.79#
51	T	3-Nitroaniline	0.323	0.000	100.0#	0#	-7.71#
52	TP	2,4-Dinitrophenol	* 10.000	0.000	100.0#	0	-7.82#
53	T	Dibenzofuran	1.483	0.000	100.0#	0#	-7.97#
54		2,3,4,6-Tetrachlorophenol	0.225	0.000	100.0#	0#	-8.10#
55	M	2,4-Dinitrotoluene	0.362	0.000	100.0#	0#	-7.95#
56	MP	4-Nitrophenol	0.122	0.000	100.0#	0#	-7.90#
57	T	Fluorene	1.221	0.000	100.0#	0#	-8.35#
58	T	4-Chlorophenyl-phenylether	0.547	0.000	100.0#	0#	-8.35#
59	T	Diethylphthalate	1.241	0.000	100.0#	0#	-8.22#
60	T	4-Nitroaniline	0.333	0.000	100.0#	0#	-8.39#
61	I	Phenanthrene-d10	1.000	1.000	0.0	115	0.00
62	T	4,6-Dinitro-2-methylphenol	* 10.000	0.000	100.0#	0	-8.42#
63	T	Azobenzene	0.203	0.000	100.0#	0#	-8.54#
64	TC	n-Nitrosodiphenylamine	0.531	0.000	100.0#	0#	-8.49#
65	S	2,4,6-Tribromophenol	0.074	0.000	100.0#	0#	-8.65#
66	T	4-Bromophenyl-phenylether	0.186	0.000	100.0#	0#	-8.96#
67	T	Hexachlorobenzene	0.194	0.000	100.0#	0#	-9.04#
68	T	Atrazine	0.205	0.000	100.0#	0#	-9.20#
69	MC	Pentachlorophenol	* 10.000	0.000	100.0#	0	-9.32#
70	T	Pentachloronitrobenzene	0.077	0.000	100.0#	0#	-9.33#
71	T	Phenanthrene	1.087	0.000	100.0#	0#	-9.63#
72	T	Anthracene	1.074	0.000	100.0#	0#	-9.72#
73	T	Carbazole	1.031	0.000	100.0#	0#	-9.98#
74	T	Di-n-butylphthalate	1.247	0.000	100.0#	0#	-10.60#
75	TC	Fluoranthene	1.124	0.000	100.0#	0#	-11.73#

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081620.D
Acq On : 9 Sep 2016 4:56 am
Operator : BNA8:ML
Sample : CQ809081603
Misc : WG930406,MSAJ83
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 11:17:40 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
76	I	Chrysene-d12	1.000	1.000	0.0	117	0.00
77	T	Benzidine	0.826	0.000	100.0#	0#	-12.06#
78	M	Pyrene	1.248	0.000	100.0#	0#	-12.18#
79	S	Terphenyl-d14	0.782	0.000	100.0#	0#	-12.58#
80	T	Butylbenzylphthalate	0.612	0.000	100.0#	0#	-13.77#
81	T	3,3'-Dichlorobenzidine	0.410	0.000	100.0#	0#	-14.93#
82	T	Benz[a]anthracene	1.183	0.000	100.0#	0#	-14.91#
83	T	Chrysene	1.098	0.000	100.0#	0#	-14.99#
84	T	bis(2-Ethylhexyl)phthalate	0.806	0.000	100.0#	0#	-15.23#
85	I	Perylene-d12	1.000	1.000	0.0	118	0.00
86	TC	Di-n-octylphthalate	1.588	0.000	100.0#	0#	-16.73#
87	T	Benzo[b]fluoranthene	1.221	0.000	100.0#	0#	-17.28#
88	T	Benzo[k]fluoranthene	1.116	0.000	100.0#	0#	-17.33#
89	TC	Benzo[a]pyrene	1.150	0.000	100.0#	0#	-17.90#
90	T	Indeno[1,2,3-cd]pyrene	1.000	0.000	100.0#	0#	-19.83#
91	T	Dibenz[a,h]anthracene	1.008	0.000	100.0#	0#	-19.88#
92	T	Benzo[g,h,i]perylene	1.082	0.000	100.0#	0#	-20.28#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 13

Mass Discrimination (Concentration)	Ratio	Range Limits
Benzo[g,h,i]perylene to Phenanthrene	0.000	0.70 - 1.30

Mass Discrimination (Response)	Ratio	Range Limits
Benzo[g,h,i]perylene to Phenanthrene	0.000	0.70 - 2.00

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081620.D
Acq On : 9 Sep 2016 4:56 am
Operator : BNA8:ML
Sample : CQ809081603
Misc : WG930406,MSAJ83
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 11:17:40 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	271059	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	1016974	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	538281	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	848085	5.000	ug/mL	0.00
76) Chrysene-d12	14.912	240	796065	5.000	ug/mL	0.00
85) Perylene-d12	17.994	264	716940	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0	0.000	ug/mL	
Spiked Amount 20.000	Range 21 - 100		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 94		Recovery = 0.00%#			
22) Nitrobenzene-d5	0.000	82	0	0.000	ug/mL	
Spiked Amount 20.000	Range 35 - 114		Recovery = 0.00%#			
43) 2-Fluorobiphenyl	0.000	172	0	0.000	ug/mL	
Spiked Amount 20.000	Range 43 - 116		Recovery = 0.00%#			
65) 2,4,6-Tribromophenol	0.000	330	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 123		Recovery = 0.00%#			
79) Terphenyl-d14	0.000	244	0	0.000	ug/mL	
Spiked Amount 20.000	Range 33 - 141		Recovery = 0.00%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	0.000		0	N.D.		
5) Benzaldehyde	4.511	77	498562	9.808	ug/ml	99
6) Aniline	0.000		0	N.D.		
7) bis(2-Chloroethyl)ether	0.000		0	N.D.		
9) Phenol	0.000		0	N.D.		
10) 2-Chlorophenol	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) Benzyl alcohol	0.000		0	N.D.		
15) bis(2-chloroisopropyl)eth	0.000		0	N.D.		
16) 2-Methylphenol	0.000		0	N.D.		
17) Acetophenone	0.000		0	N.D. d		
18) Hexachloroethane	0.000		0	N.D.		
19) N-Nitroso-di-n-propylamin	0.000		0	N.D.		
20) 4-Methylphenol	0.000		0	N.D.		
23) Nitrobenzene	0.000		0	N.D. d		

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081620.D
Acq On : 9 Sep 2016 4:56 am
Operator : BNA8:ML
Sample : CQ809081603
Misc : WG930406,MSAJ83
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 11:17:40 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
24) Isophorone	0.000		0	N.D.	
25) 2-Nitrophenol	0.000		0	N.D.	
26) 2,4-Dimethylphenol	0.000		0	N.D.	
27) Benzoic acid	0.000		0	N.D.	
28) bis(2-Chloroethoxy)methan	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
31) Naphthalene	0.000		0	N.D.	
32) 2-Chloroaniline	0.000		0	N.D.	
33) 4-Chloroaniline	0.000		0	N.D.	
34) Hexachlorobutadiene	0.000		0	N.D.	
35) Caprolactam	0.000		0	N.D.	
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	
39) 1,2,4,5-Tetrachlorobenzen	0.000		0	N.D.	
40) Hexachlorocyclopentadiene	0.000		0	N.D.	
41) 2,4,6-Trichlorophenol	0.000		0	N.D.	
42) 2,4,5-Trichlorophenol	0.000		0	N.D.	
44) Biphenyl	0.000		0	N.D.	
45) 2-Chloronaphthalene	0.000		0	N.D.	
46) 2-Nitroaniline	0.000		0	N.D.	
47) Acenaphthylene	0.000		0	N.D.	
48) Dimethylphthalate	0.000		0	N.D.	
49) 2,6-Dinitrotoluene	0.000		0	N.D.	
50) Acenaphthene	0.000		0	N.D.	
51) 3-Nitroaniline	0.000		0	N.D.	d
52) 2,4-Dinitrophenol	0.000		0	N.D.	
53) Dibenzofuran	0.000		0	N.D.	
54) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
55) 2,4-Dinitrotoluene	0.000		0	N.D.	
56) 4-Nitrophenol	0.000		0	N.D.	
57) Fluorene	0.000		0	N.D.	
58) 4-Chlorophenyl-phenylethe	0.000		0	N.D.	
59) Diethylphthalate	0.000		0	N.D.	
60) 4-Nitroaniline	0.000		0	N.D.	
62) 4,6-Dinitro-2-methylpheno	0.000		0	N.D.	
63) Azobenzene	0.000		0	N.D.	
64) n-Nitrosodiphenylamine	0.000		0	N.D.	
66) 4-Bromophenyl-phenylether	0.000		0	N.D.	
67) Hexachlorobenzene	0.000		0	N.D.	
68) Atrazine	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081620.D
Acq On : 9 Sep 2016 4:56 am
Operator : BNA8:ML
Sample : CQ809081603
Misc : WG930406,MSAJ83
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 11:17:40 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
69) Pentachlorophenol	0.000		0	N.D.	
70) Pentachloronitrobenzene	0.000		0	N.D.	
71) Phenanthrene	0.000		0	N.D.	
72) Anthracene	0.000		0	N.D.	
73) Carbazole	0.000		0	N.D.	
74) Di-n-butylphthalate	0.000		0	N.D.	
75) Fluoranthene	0.000		0	N.D.	
77) Benzidine	0.000		0	N.D.	
78) Pyrene	0.000		0	N.D.	
80) Butylbenzylphthalate	0.000		0	N.D.	
81) 3,3'-Dichlorobenzidine	0.000		0	N.D.	
82) Benz[a]anthracene	0.000		0	N.D.	d
83) Chrysene	0.000		0	N.D.	d
84) bis(2-Ethylhexyl)phthalat	0.000		0	N.D.	
86) Di-n-octylphthalate	0.000		0	N.D.	
87) Benzo[b]fluoranthene	0.000		0	N.D.	
88) Benzo[k]fluoranthene	0.000		0	N.D.	
89) Benzo[a]pyrene	0.000		0	N.D.	d
90) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	
91) Dibenz[a,h]anthracene	0.000		0	N.D.	
92) Benzo[g,h,i]perylene	0.000		0	N.D.	

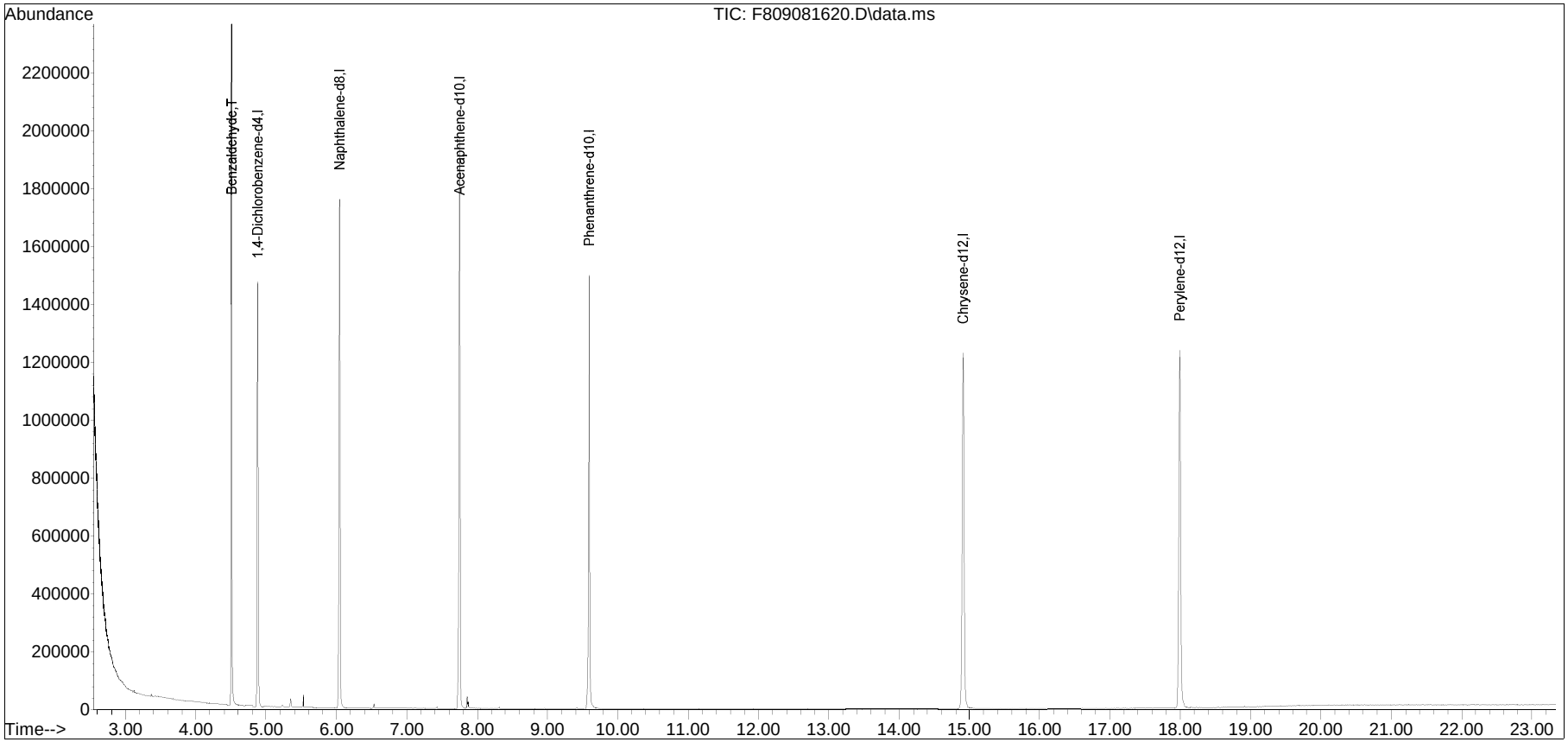
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081620.D
Acq On : 9 Sep 2016 4:56 am
Operator : BNA8:ML
Sample : CQ809081603
Misc : WG930406,MSAJ83
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 11:17:40 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\BNA8\2016\	QMethod	: SV0908BNA8.M
Data File	: F809081620.D	Operator	: BNA8:ML
Date Inj'd	: 9/9/2016 4:56 am	Instrument	: BNA8
Sample	: CQ809081603	Quant Date	: 9/9/2016 11:15 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081621.D
Acq On : 9 Sep 2016 5:29 am
Operator : BNA8:ML
Sample : CQ809081604
Misc : WG930406,MSAK34
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 09 16:07:27 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	118	0.00
2	T	N-Nitrosodimethylamine	0.601	0.732	-21.8	140	-0.02
3	t	Pyridine	1.172	1.271	-8.4	130	-0.01
4	S	2-Fluorophenol	1.201	0.000	100.0#	0#	-3.83#
5	T	Benzaldehyde	0.938	0.000	100.0#	0#	-4.51#
6	T	Aniline	1.765	1.852	-4.9	124	0.00
7	T	bis(2-Chloroethyl)ether	0.749	0.787	-5.1	125	0.00
8	S	Phenol-d5	1.455	0.000	100.0#	0#	-4.55#
9	MC	Phenol	1.491	1.564	-4.9#	124	0.00
10	M	2-Chlorophenol	1.351	1.394	-3.2	121	0.00
11	T	1,3-Dichlorobenzene	1.491	1.513	-1.5	120	0.00
12	MC	1,4-Dichlorobenzene	1.483	1.505	-1.5#	121	0.00
13	T	1,2-Dichlorobenzene	1.409	1.428	-1.3	119	0.00
14	T	Benzyl alcohol	0.803	0.824	-2.6	118	0.00
15	T	bis(2-chloroisopropyl)ether	1.040	1.040	0.0	119	0.00
16	T	2-Methylphenol	1.050	1.104	-5.1	123	0.00
17	T	Acetophenone	1.604	1.513	5.7	90	0.00
18	T	Hexachloroethane	0.542	0.535	1.3	116	0.00
19	MP	N-Nitroso-di-n-propylamine	0.733	0.697	4.9	112	0.00
20	T	4-Methylphenol	1.134	1.067	5.9	113	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	113	0.00
22	S	Nitrobenzene-d5	0.292	0.000	100.0#	0#	-5.38#
23	T	Nitrobenzene	0.290	0.293	-1.0	114	0.00
24	T	Isophorone	0.467	0.578	-23.8	138	0.00
25	TC	2-Nitrophenol	0.190	0.189	0.5#	110	0.00
26	T	2,4-Dimethylphenol	0.302	0.305	-1.0	116	0.00
27	T	Benzoic acid	* 10.000	0.000	100.0#	0	-5.81#
28	T	bis(2-Chloroethoxy)methane	0.338	0.354	-4.7	120	0.00
29	TC	2,4-Dichlorophenol	0.276	0.275	0.4#	111	0.00
30	M	1,2,4-Trichlorobenzene	0.299	0.299	0.0	115	0.00
31	T	Naphthalene	0.961	0.956	0.5	114	0.00
32	T	2-Chloroaniline	0.485	0.455	6.2	106	0.00
33	T	4-Chloroaniline	0.414	0.419	-1.2	114	0.00
34	TC	Hexachlorobutadiene	0.152	0.152	0.0	114	0.00
35	T	Caprolactam	0.089	0.101	-13.5	96	0.02
36	MC	4-Chloro-3-methylphenol	0.266	0.265	0.4#	112	0.00
37	T	2-Methylnaphthalene	0.652	0.672	-3.1	117	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081621.D
Acq On : 9 Sep 2016 5:29 am
Operator : BNA8:ML
Sample : CQ809081604
Misc : WG930406,MSAK34
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 09 16:07:27 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	I	Acenaphthene-d10	1.000	1.000	0.0	109	0.00
39	T	1,2,4,5-Tetrachlorobenzene	0.521	0.525	-0.8	110	0.00
40	TP	Hexachlorocyclopentadiene	* 10.000	10.105	-1.1	115	0.00
41	TC	2,4,6-Trichlorophenol	0.375	0.360	4.0#	106	0.00
42	T	2,4,5-Trichlorophenol	0.334	0.328	1.8	106	0.00
43	S	2-Fluorobiphenyl	1.262	0.000	100.0#	0#	-7.08#
44	T	Biphenyl	1.443	1.438	0.3	93	0.00
45	T	2-Chloronaphthalene	1.129	1.116	1.2	108	0.00
46	T	2-Nitroaniline	0.261	0.267	-2.3	112	0.00
47	T	Acenaphthylene	1.867	1.779	4.7	104	0.00
48	T	Dimethylphthalate	1.214	1.255	-3.4	116	0.00
49	T	2,6-Dinitrotoluene	0.282	0.300	-6.4	114	0.00
50	MC	Acenaphthene	1.136	1.094	3.7#	107	0.00
51	T	3-Nitroaniline	0.323	0.355	-9.9	120	0.00
52	TP	2,4-Dinitrophenol	* 10.000	6.532	34.7#	66	0.00
53	T	Dibenzofuran	1.483	1.523	-2.7	116	0.00
54		2,3,4,6-Tetrachlorophenol	0.225	0.266	-18.2	122	0.00
55	M	2,4-Dinitrotoluene	0.362	0.390	-7.7	111	0.00
56	MP	4-Nitrophenol	0.122	0.124	-1.6	99	0.00
57	T	Fluorene	1.221	1.217	0.3	112	0.00
58	T	4-Chlorophenyl-phenylether	0.547	0.537	1.8	111	0.00
59	T	Diethylphthalate	1.241	1.276	-2.8	112	0.00
60	T	4-Nitroaniline	0.333	0.353	-6.0	112	0.00
61	I	Phenanthrene-d10	1.000	1.000	0.0	108	0.00
62	T	4,6-Dinitro-2-methylphenol	* 10.000	8.287	17.1	90	0.00
63	T	Azobenzene	0.203	0.203	0.0	109	0.00
64	TC	n-Nitrosodiphenylamine	0.531	0.663	-24.9#	137	0.00
65	S	2,4,6-Tribromophenol	0.074	0.000	100.0#	0#	-8.65#
66	T	4-Bromophenyl-phenylether	0.186	0.194	-4.3	114	0.00
67	T	Hexachlorobenzene	0.194	0.199	-2.6	113	0.00
68	T	Atrazine	0.205	0.202	1.5	88	0.00
69	MC	Pentachlorophenol	* 10.000	7.118	28.8#	79	0.00
70	T	Pentachloronitrobenzene	0.077	0.081	-5.2	107	0.00
71	T	Phenanthrene	1.087	1.117	-2.8	113	0.00
72	T	Anthracene	1.074	1.083	-0.8	110	0.00
73	T	Carbazole	1.031	1.082	-4.9	111	0.00
74	T	Di-n-butylphthalate	1.247	1.300	-4.3	110	0.00
75	TC	Fluoranthene	1.124	1.150	-2.3#	108	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081621.D
Acq On : 9 Sep 2016 5:29 am
Operator : BNA8:ML
Sample : CQ809081604
Misc : WG930406,MSAK34
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 09 16:07:27 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
76	I	Chrysene-d12	1.000	1.000	0.0	106	0.00
77	T	Benzidine	0.826	0.000	100.0#	0#	-12.06#
78	M	Pyrene	1.248	1.310	-5.0	112	0.00
79	S	Terphenyl-d14	0.782	0.000	100.0#	0#	-12.58#
80	T	Butylbenzylphthalate	0.612	0.668	-9.2	109	0.00
81	T	3,3'-Dichlorobenzidine	0.410	0.312	23.9	66	0.00
82	T	Benz[a]anthracene	1.183	1.210	-2.3	108	0.00
83	T	Chrysene	1.098	1.115	-1.5	108	0.00
84	T	bis(2-Ethylhexyl)phthalate	0.806	0.908	-12.7	111	0.00
85	I	Perylene-d12	1.000	1.000	0.0	109	0.00
86	TC	Di-n-octylphthalate	1.588	1.690	-6.4#	107	0.00
87	T	Benzo[b]fluoranthene	1.221	1.191	2.5	104	0.00
88	T	Benzo[k]fluoranthene	1.116	1.189	-6.5	109	0.00
89	TC	Benzo[a]pyrene	1.150	1.156	-0.5#	106	0.00
90	T	Indeno[1,2,3-cd]pyrene	1.000	0.997	0.3	105	0.00
91	T	Dibenz[a,h]anthracene	1.008	1.081	-7.2	108	0.00
92	T	Benzo[g,h,i]perylene	1.082	1.102	-1.8	107	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 12

Mass Discrimination (Concentration)	Ratio	Range Limits
Benzo[g,h,i]perylene to Phenanthrene	0.99	0.70 - 1.30

Mass Discrimination (Response)	Ratio	Range Limits
Benzo[g,h,i]perylene to Phenanthrene	0.83	0.70 - 2.00

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081621.D
Acq On : 9 Sep 2016 5:29 am
Operator : BNA8:ML
Sample : CQ809081604
Misc : WG930406,MSAK34
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 09 16:07:27 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.877	152	256149	5.000 ug/mL	0.00
21) Naphthalene-d8	6.043	136	932082	5.000 ug/mL	0.00
38) Acenaphthene-d10	7.752	164	487011	5.000 ug/mL	0.00
61) Phenanthrene-d10	9.601	188	793516	5.000 ug/mL	0.00
76) Chrysene-d12	14.927	240	722136	5.000 ug/mL	0.00
85) Perylene-d12	18.004	264	663947	5.000 ug/mL	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.000 ug/mL	
Spiked Amount 20.000	Range 21 - 100		Recovery = 0.00%#		
8) Phenol-d5	0.000	99	0	0.000 ug/mL	
Spiked Amount 20.000	Range 10 - 94		Recovery = 0.00%#		
22) Nitrobenzene-d5	0.000	82	0d	0.000 ug/mL	
Spiked Amount 20.000	Range 35 - 114		Recovery = 0.00%#		
43) 2-Fluorobiphenyl	0.000	172	0	0.000 ug/mL	
Spiked Amount 20.000	Range 43 - 116		Recovery = 0.00%#		
65) 2,4,6-Tribromophenol	0.000	330	0	0.000 ug/mL	
Spiked Amount 20.000	Range 10 - 123		Recovery = 0.00%#		
79) Terphenyl-d14	0.000	244	0	0.000 ug/mL	
Spiked Amount 20.000	Range 33 - 141		Recovery = 0.00%#		
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	2.927	74	374901	12.186 ug/mL	99
3) Pyridine	2.951	79	651148	10.846 ug/mL	99
5) Benzaldehyde	0.000		0	N.D. d	
6) Aniline	4.598	93	948897M6	10.509 ug/ml	
7) bis(2-Chloroethyl)ether	4.636	63	403103	10.447 ug/mL	99
9) Phenol	4.559	94	801480	10.433 ug/mL	96
10) 2-Chlorophenol	4.699	128	714000	10.313 ug/mL	99
11) 1,3-Dichlorobenzene	4.829	146	775232	10.150 ug/mL	100
12) 1,4-Dichlorobenzene	4.892	146	770877	10.145 ug/mL	99
13) 1,2-Dichlorobenzene	5.026	146	731675	10.135 ug/mL	100
14) Benzyl alcohol	4.993	108	422001	10.253 ug/mL	99
15) bis(2-chloroisopropyl)eth	5.108	45	532598	9.998 ug/mL#	64
16) 2-Methylphenol	5.084	108	565552	10.518 ug/mL	98
17) Acetophenone	5.234	105	774864	9.430 ug/ml#	80
18) Hexachloroethane	5.330	117	273986	9.875 ug/mL	94
19) N-Nitroso-di-n-propylamin	5.229	70	356985	9.507 ug/mL	95
20) 4-Methylphenol	5.224	108	546865	9.413 ug/mL	91
23) Nitrobenzene	5.392	77	545687	10.093 ug/mL	95

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081621.D
Acq On : 9 Sep 2016 5:29 am
Operator : BNA8:ML
Sample : CQ809081604
Misc : WG930406,MSAK34
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 09 16:07:27 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Isophorone	5.609	82	1076707	12.376	ug/mL	96
25) 2-Nitrophenol	5.681	139	352796	9.981	ug/mL#	86
26) 2,4-Dimethylphenol	5.715	107	569382	10.130	ug/mL	99
27) Benzoic acid	0.000		0	N.D.	d	
28) bis(2-Chloroethoxy)methan	5.802	93	659684	10.468	ug/mL	99
29) 2,4-Dichlorophenol	5.908	162	512914	9.975	ug/mL	99
30) 1,2,4-Trichlorobenzene	5.985	180	557489	9.985	ug/mL	99
31) Naphthalene	6.062	128	1782660	9.955	ug/mL	99
32) 2-Chloroaniline	5.648	127	847942	9.388	ug/ml	99
33) 4-Chloroaniline	6.110	127	781373M4	10.140	ug/mL	
34) Hexachlorobutadiene	6.168	225	283780	9.998	ug/mL	99
35) Caprolactam	6.457	113	189120M4	11.358	ug/ml	
36) 4-Chloro-3-methylphenol	6.577	107	493076	9.953	ug/mL	99
37) 2-Methylnaphthalene	6.721	142	1252070	10.304	ug/mL	99
39) 1,2,4,5-Tetrachlorobenzen	6.885	216	511572	10.081	ug/mL	100
40) Hexachlorocyclopentadiene	6.871	237	229204	10.105	ug/mL	96
41) 2,4,6-Trichlorophenol	6.996	196	350246M6	9.579	ug/mL	
42) 2,4,5-Trichlorophenol	7.034	196	319793M4	9.769	ug/mL	
44) Biphenyl	7.174	154	1400307	9.962	ug/ml	99
45) 2-Chloronaphthalene	7.198	162	1087434	9.889	ug/mL	98
46) 2-Nitroaniline	7.299	65	259577	10.211	ug/mL	99
47) Acenaphthylene	7.607	152	1732363	9.527	ug/mL	99
48) Dimethylphthalate	7.477	163	1222471	10.334	ug/mL	100
49) 2,6-Dinitrotoluene	7.540	165	291948	10.625	ug/mL	93
50) Acenaphthene	7.786	153	1065426	9.631	ug/mL	97
51) 3-Nitroaniline	7.713	138	346147	11.009	ug/mL	98
52) 2,4-Dinitrophenol	7.819	184	74415	6.532	ug/mL#	88
53) Dibenzofuran	7.969	168	1483356	10.270	ug/mL	99
54) 2,3,4,6-Tetrachlorophenol	8.103	232	258912	11.817	ug/mL	94
55) 2,4-Dinitrotoluene	7.954	165	379819	10.776	ug/mL	89
56) 4-Nitrophenol	7.892	109	120908	10.218	ug/mL	98
57) Fluorene	8.354	166	1185583	9.965	ug/mL	99
58) 4-Chlorophenyl-phenylethe	8.349	204	522890	9.817	ug/mL	98
59) Diethylphthalate	8.219	149	1242991	10.281	ug/mL	100
60) 4-Nitroaniline	8.388	138	343794	10.586	ug/mL	96
62) 4,6-Dinitro-2-methylpheno	8.412	198	146512	8.287	ug/mL	95
63) Azobenzene	8.542	182	322515	10.018	ug/mL	76
64) n-Nitrosodiphenylamine	8.493	169	1051858	12.473	ug/mL	99
66) 4-Bromophenyl-phenylether	8.961	248	307301	10.435	ug/mL	99
67) Hexachlorobenzene	9.038	284	315704	10.254	ug/mL	99
68) Atrazine	9.197	200	320177	9.842	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081621.D
Acq On : 9 Sep 2016 5:29 am
Operator : BNA8:ML
Sample : CQ809081604
Misc : WG930406,MSAK34
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 09 16:07:27 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
69) Pentachlorophenol	9.322	266	109659	7.118 ug/mL	96
70) Pentachloronitrobenzene	9.331	237	128298	10.461 ug/ml	91
71) Phenanthrene	9.635	178	1771938M4	10.320 ug/mL	
72) Anthracene	9.712	178	1718351M4	10.099 ug/mL	
73) Carbazole	9.977	167	1717636	10.495 ug/mL	99
74) Di-n-butylphthalate	10.598	149	2062601	10.420 ug/mL	100
75) Fluoranthene	11.729	202	1824620	10.230 ug/mL	96
77) Benzidine	0.000		0	N.D.	
78) Pyrene	12.182	202	1892245	10.499 ug/mL	97
80) Butylbenzylphthalate	13.771	149	965352	10.916 ug/mL	96
81) 3,3'-Dichlorobenzidine	14.932	252	450853M4	7.623 ug/mL	
82) Benz[a]anthracene	14.908	228	1747873	10.249 ug/mL	100
83) Chrysene	14.989	228	1610915M4	10.154 ug/mL	
84) bis(2-Ethylhexyl)phthalat	15.235	149	1311117	11.268 ug/mL	99
86) Di-n-octylphthalate	16.733	149	2243777	10.638 ug/mL	99
87) Benzo[b]fluoranthene	17.277	252	1581924	9.758 ug/mL	98
88) Benzo[k]fluoranthene	17.334	252	1579353M4	10.658 ug/mL	
89) Benzo[a]pyrene	17.898	252	1535034	10.051 ug/mL	99
90) Indeno[1,2,3-cd]pyrene	19.829	276	1323611	9.967 ug/mL	99
91) Dibenz[a,h]anthracene	19.882	278	1435726	10.729 ug/mL	98
92) Benzo[g,h,i]perylene	20.277	276	1463958	10.192 ug/mL	98

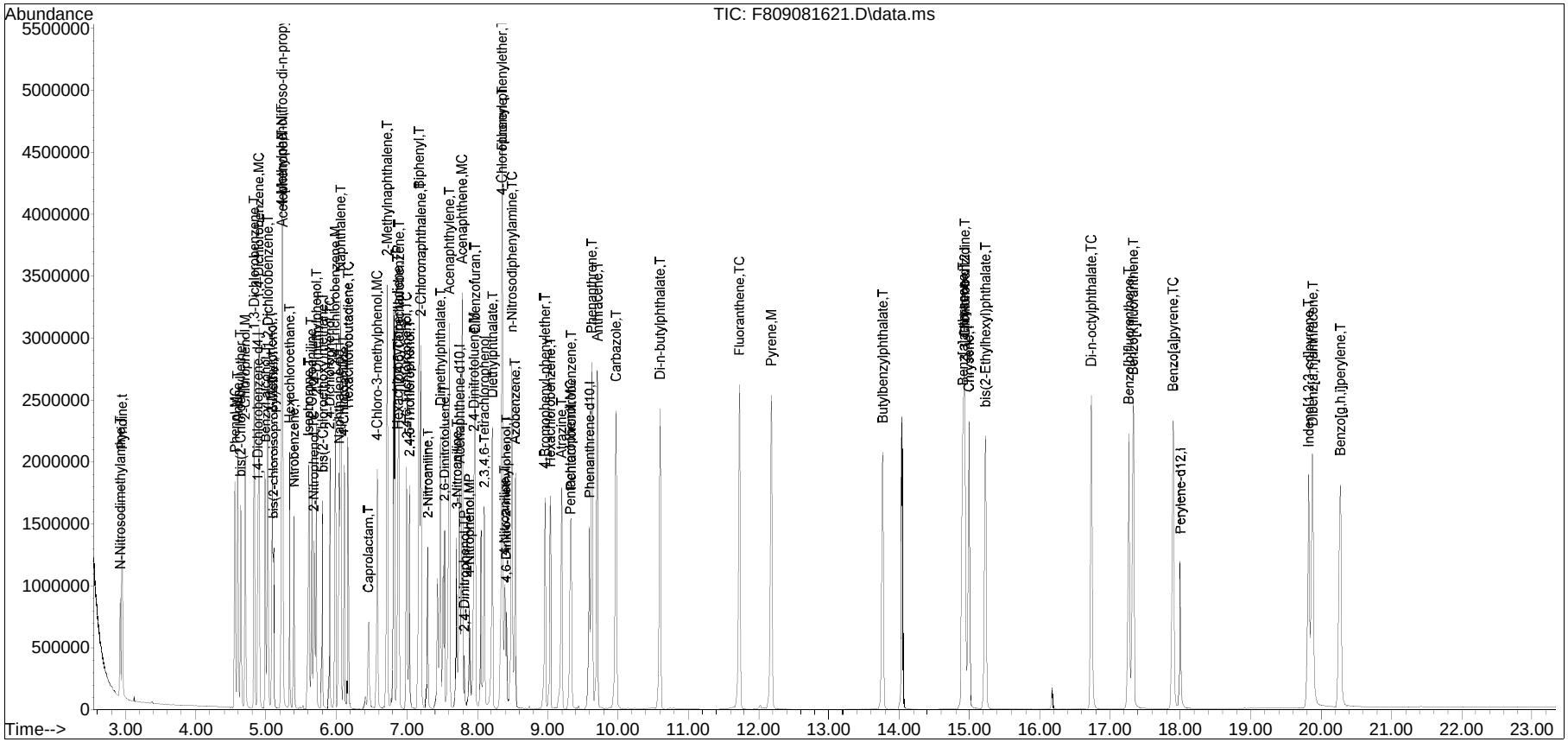
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP08\
Data File : F809081621.D
Acq On : 9 Sep 2016 5:29 am
Operator : BNA8:ML
Sample : CQ809081604
Misc : WG930406,MSAK34
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 09 16:07:27 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP08\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 09 11:14:27 2016
Response via : Initial Calibration

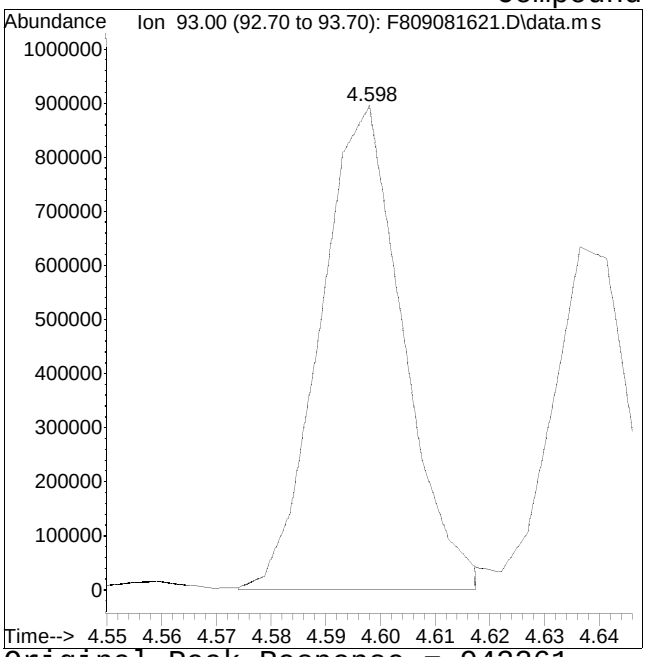
Sub List : Default - All compounds listed

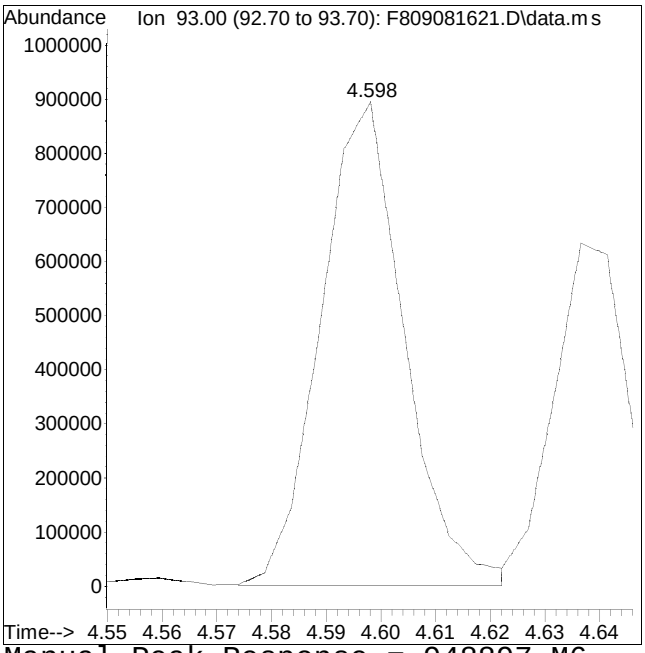


Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081621.D Operator : BNA8:ML
Date Inj'd : 9/9/2016 5:29 am Instrument : BNA8
Sample : CQ809081604 Quant Date : 9/9/2016 11:14 am

Compound #6: Aniline



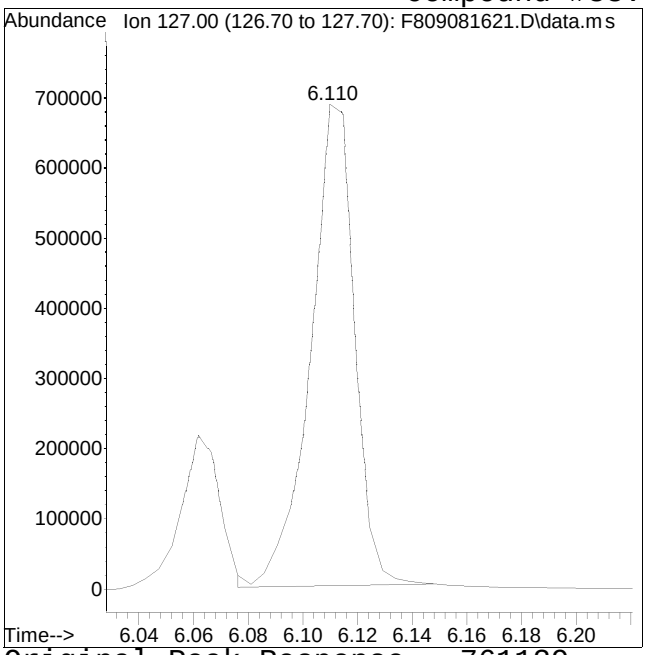


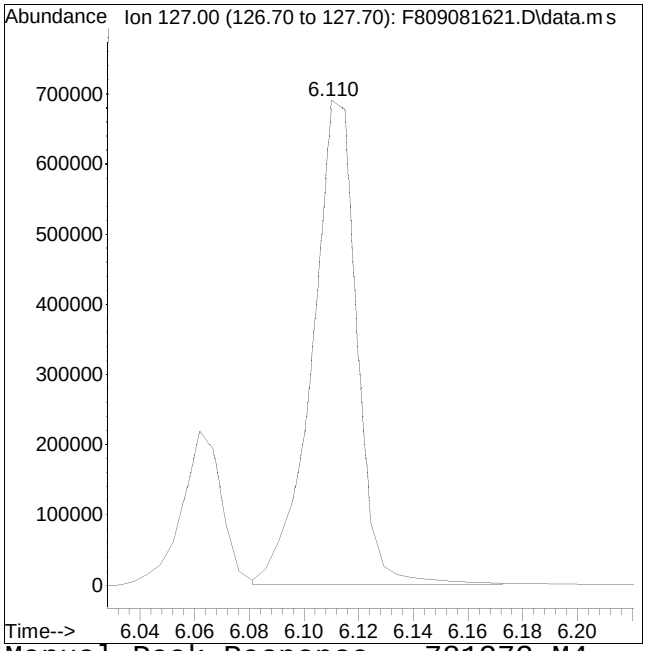
Original Peak Response = 942261 Manual Peak Response = 948897 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081621.D Operator : BNA8:ML
Date Inj'd : 9/9/2016 5:29 am Instrument : BNA8
Sample : CQ809081604 Quant Date : 9/9/2016 11:14 am

Compound #33: 4-Chloroaniline



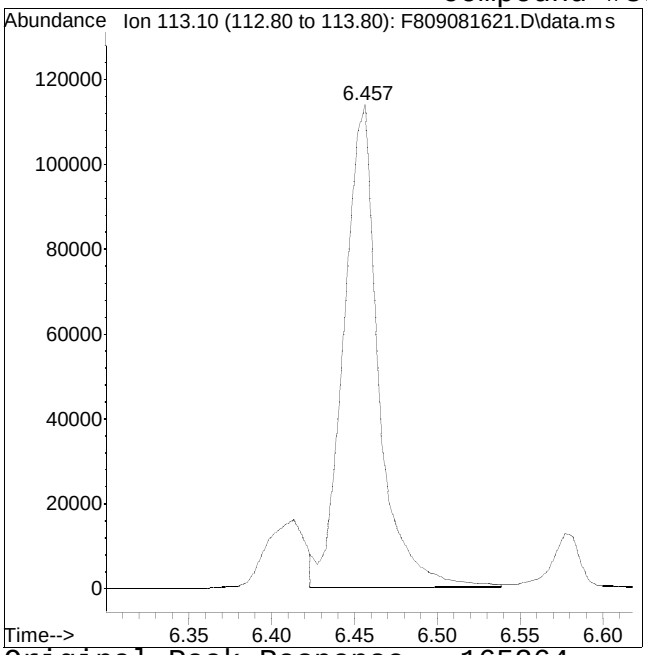


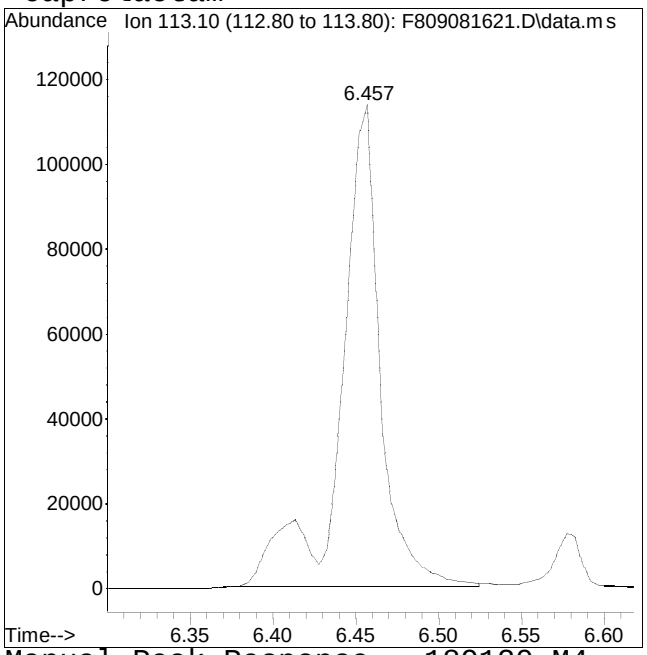
Original Peak Response = 761129 Manual Peak Response = 781373 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081621.D Operator : BNA8:ML
Date Inj'd : 9/9/2016 5:29 am Instrument : BNA8
Sample : CQ809081604 Quant Date : 9/9/2016 11:14 am

Compound #35: Caprolactam



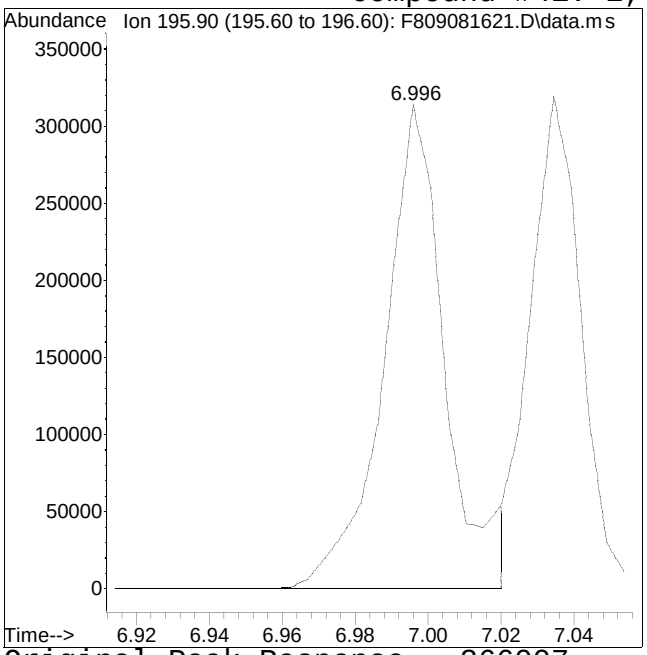


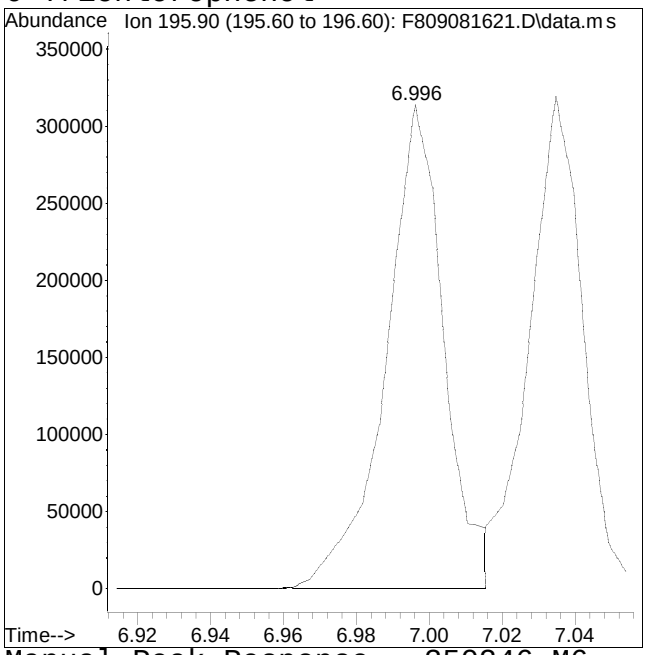
Original Peak Response = 165264 Manual Peak Response = 189120 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081621.D Operator : BNA8:ML
Date Inj'd : 9/9/2016 5:29 am Instrument : BNA8
Sample : CQ809081604 Quant Date : 9/9/2016 11:14 am

Compound #41: 2,4,6-Trichlorophenol



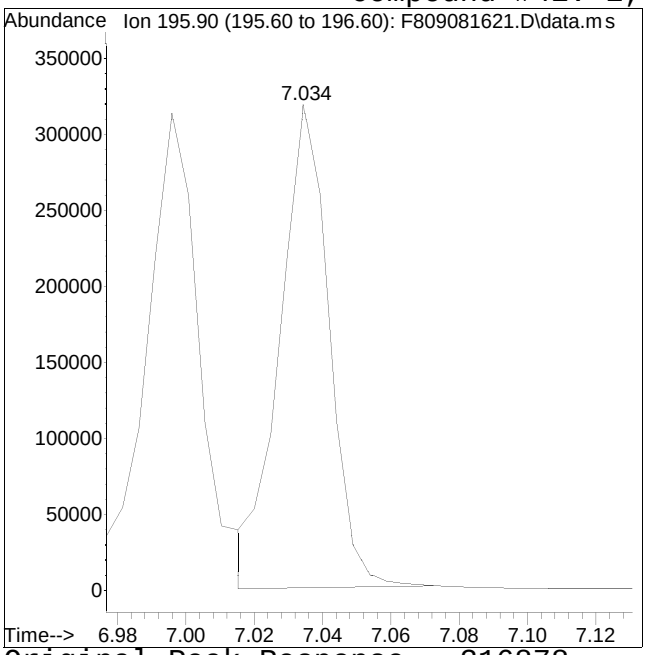


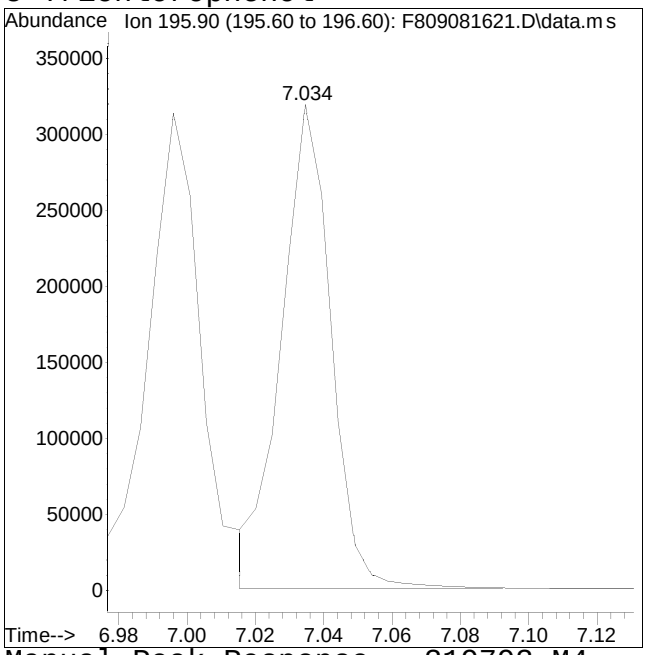
Original Peak Response = 366007 Manual Peak Response = 350246 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081621.D Operator : BNA8:ML
Date Inj'd : 9/9/2016 5:29 am Instrument : BNA8
Sample : CQ809081604 Quant Date : 9/9/2016 11:14 am

Compound #42: 2,4,5-Trichlorophenol



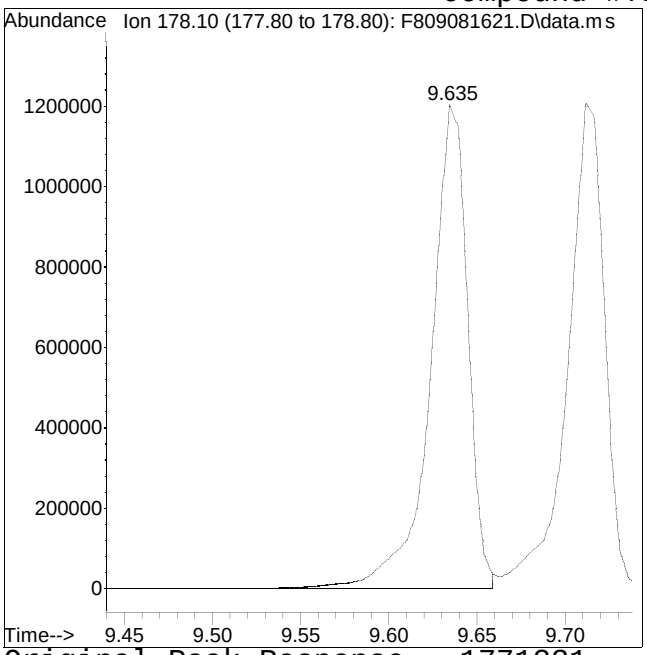


Original Peak Response = 316878 Manual Peak Response = 319793 M4
M4 = Poor automated baseline construction.

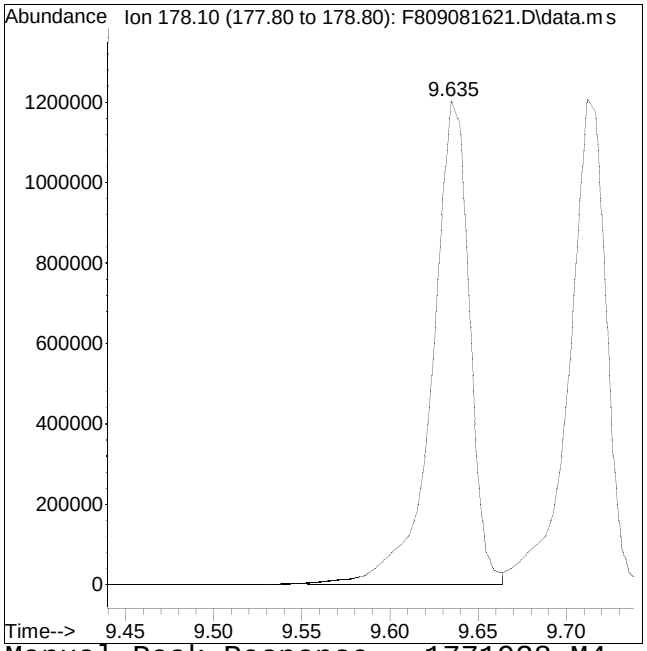
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081621.D Operator : BNA8:ML
Date Inj'd : 9/9/2016 5:29 am Instrument : BNA8
Sample : CQ809081604 Quant Date : 9/9/2016 11:14 am

Compound #71: Phenanthrene



Original Peak Response = 1771231



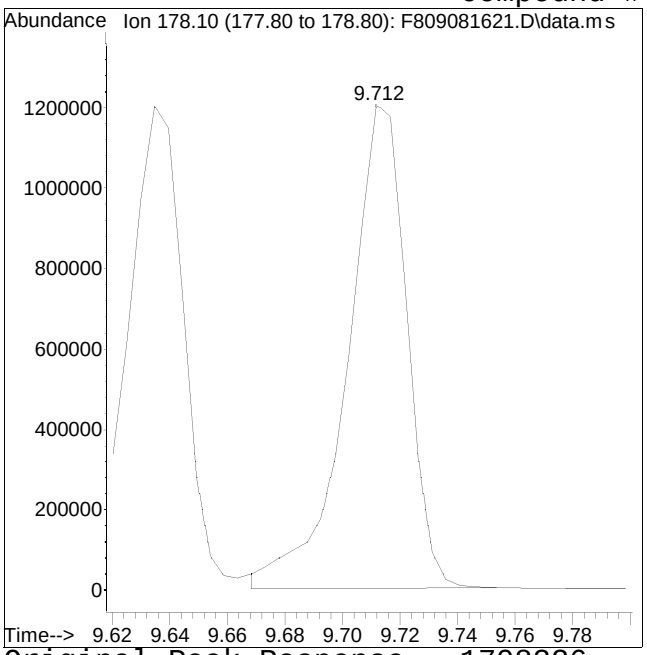
Manual Peak Response = 1771938 M4

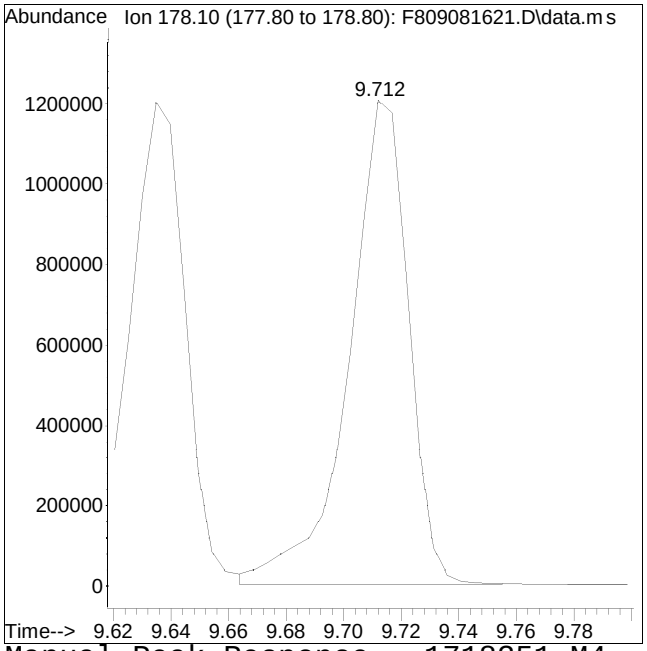
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081621.D Operator : BNA8:ML
Date Inj'd : 9/9/2016 5:29 am Instrument : BNA8
Sample : CQ809081604 Quant Date : 9/9/2016 11:14 am

Compound #72: Anthracene



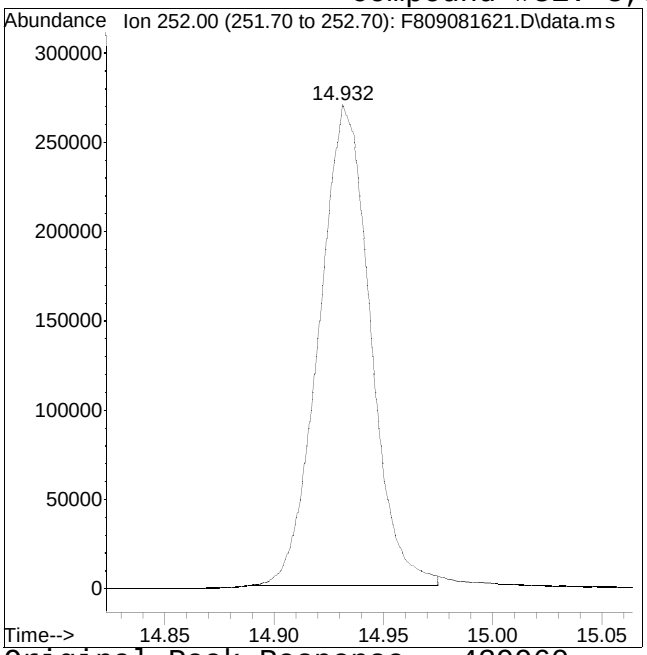


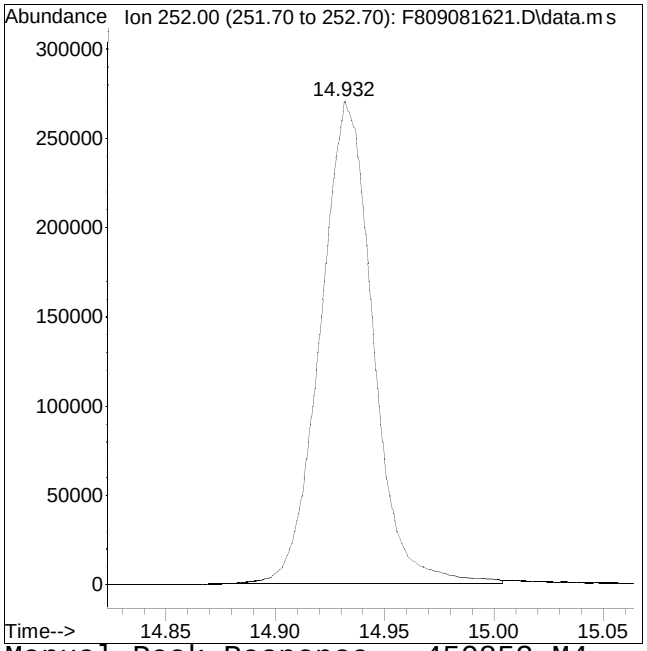
Original Peak Response = 1708326 Manual Peak Response = 1718351 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081621.D Operator : BNA8:ML
Date Inj'd : 9/9/2016 5:29 am Instrument : BNA8
Sample : CQ809081604 Quant Date : 9/9/2016 11:14 am

Compound #81: 3,3'-Dichlorobenzidine



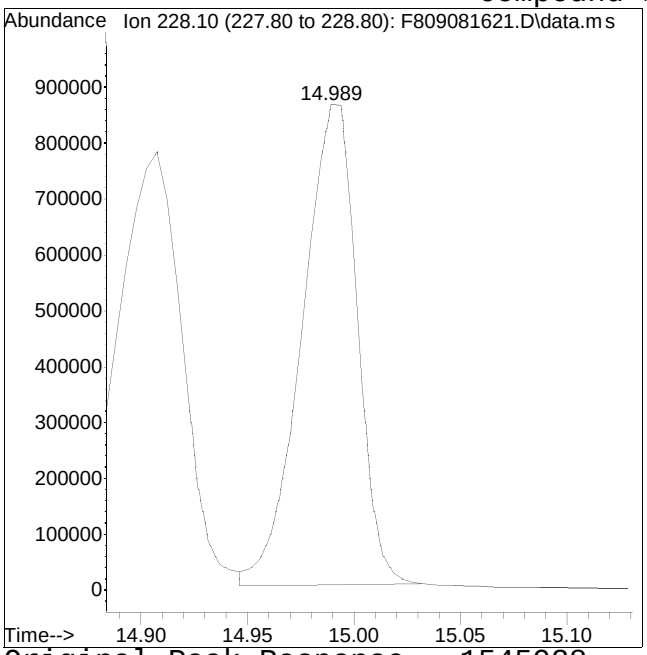


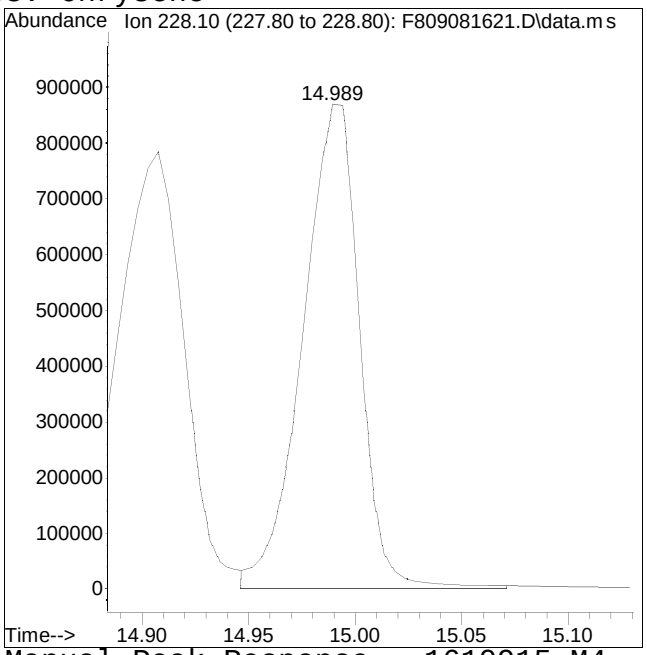
Original Peak Response = 439960 Manual Peak Response = 450853 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\ QMethod : SV0908BNA8.M
Data File : F809081621.D Operator : BNA8:ML
Date Inj'd : 9/9/2016 5:29 am Instrument : BNA8
Sample : CQ809081604 Quant Date : 9/9/2016 11:14 am

Compound #83: Chrysene



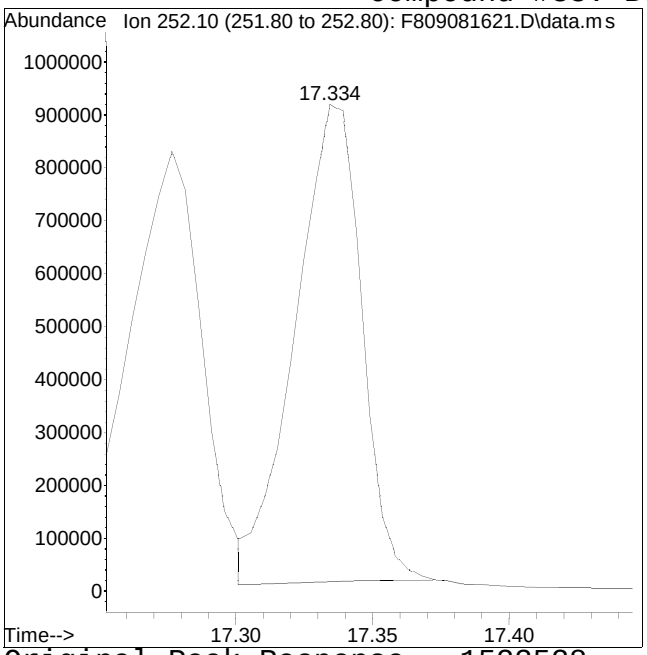


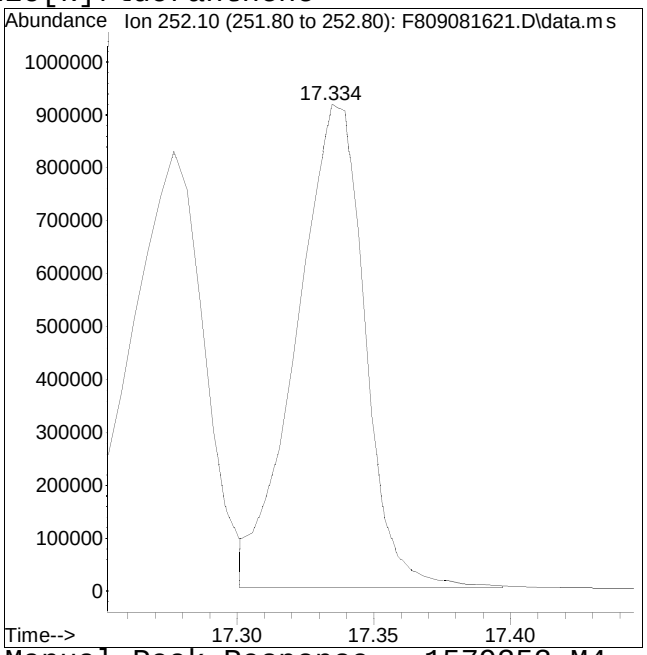
Original Peak Response = 1545928 Manual Peak Response = 1610915 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\BNA8\2016\QMethod : SV0908BNA8.M
Data File : F809081621.D Operator : BNA8:ML
Date Inj'd : 9/9/2016 5:29 am Instrument : BNA8
Sample : CQ809081604 Quant Date : 9/9/2016 11:14 am

Compound #88: Benzo[k]fluoranthene





Original Peak Response = 1523528 Manual Peak Response = 1579353 M4
M4 = Poor automated baseline construction.

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 12 2016, 04:32 pm

Work Group: WG929407 for Department: 2 Organic Preparation

Created: 07-SEP-16 Due: Operator: ba

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1625234-01	LDW-BA-PC-ENRMAT-SAN	S	A2-SVOC-8270	SOIL	DONE	U	0824	0901	S0	Glass-A.5
L1625234-02	LDW-BA-PC-ENRMAT-GRA	S	A2-SVOC-8270	SOIL	DONE	U	0824	0901	S0	Glass-A.5
WG929407-1	Laboratory Method Bl	S	A2-SVOC-8270	SOIL	DONE	U				
WG929407-2	Laboratory Control S	S	A2-SVOC-8270	SOIL	DONE	U				
WG929407-3	LCS Duplicate	S	A2-SVOC-8270	SOIL	DONE	U				
WG929407-4	Duplicate Sample	S	A2-SVOC-8270	SOIL	DONE	U				
WG929407-5	Matrix Spike	S	A2-SVOC-8270	SOIL	DONE	U				
WG929407-6	Matrix Spike Duplica	S	A2-SVOC-8270	SOIL	DONE	U				
WG929407-7	Matrix Spike	S	A2-SVOC-8270	SOIL	DONE	U				
WG929407-8	Matrix Spike Duplica	S	A2-SVOC-8270	SOIL	DONE	U				

Comments:

WG929407-3	WG929407-2
WG929407-4	L1625234-01
WG929407-5	L1625234-01
WG929407-6	L1625234-01
WG929407-7	L1625234-02
WG929407-8	L1625234-02

Sequence Logs

Analysis log File

Total Files Reported in Log : 22
Log Generated From Directory: O:\Organics\DATA\BNA8\2016\SEP\SEP08\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F809081601.D	8270BNA8.M	pRIME	MSAK38	9/8/2016 6:06 pm
2	F809081602.D	8270BNA8.M	T809081601	WG930406,MSAK38	9/8/2016 7:02 pm
3	F809081603.D	8270BNA8.M	I809081601	WG930406,MSAK70	9/8/2016 7:35 pm
4	F809081604.D	8270BNA8.M	I809081602	WG930406,MSAK71	9/8/2016 8:09 pm
5	F809081605.D	8270BNA8.M	I809081603	WG930406,MSAK72	9/8/2016 8:42 pm
6	F809081606.D	8270BNA8.M	I809081604	WG930406,MSAK73	9/8/2016 9:16 pm
7	F809081607.D	8270BNA8.M	I809081605	WG930406,MSAK74	9/8/2016 9:50 pm
8	F809081608.D	8270BNA8.M	I809081606	WG930406,MSAK75	9/8/2016 10:23 pm
9	F809081609.D	8270BNA8.M	I809081607	WG930406,MSAK76	9/8/2016 10:56 pm
10	F809081610.D	8270BNA8.M	I809081608	WG930406,MSAK69,X2	9/8/2016 11:29 pm
11	F809081611.D	8270BNA8.M	I809081609	WG930406,MSAK62	9/9/2016 12:02 am
12	F809081612.D	8270BNA8.M	I809081610	WG930406,MSAK61	9/9/2016 12:35 am
13	F809081613.D	8270BNA8.M	I809081611	WG930406,MSAK60	9/9/2016 1:08 am
14	F809081614.D	8270BNA8.M	I809081612	WG930406,MSAK59	9/9/2016 1:40 am
15	F809081615.D	8270BNA8.M	I809081613	WG930406,MSAK58	9/9/2016 2:13 am
16	F809081616.D	8270BNA8.M	I809081614	WG930406,MSAK57	9/9/2016 2:45 am
17	F809081617.D	8270BNA8.M	I809081615	WG930406,MSAK56	9/9/2016 3:18 am
18	F809081618.D	8270BNA8.M	CQ809081601	WG930406,MSAJ17	9/9/2016 3:51 am
19	F809081619.D	8270BNA8.M	CQ809081602	WG930406,MSAK33	9/9/2016 4:24 am
20	F809081620.D	8270BNA8.M	CQ809081603	WG930406,MSAJ83	9/9/2016 4:56 am
21	F809081621.D	8270BNA8.M	CQ809081604	WG930406,MSAK34	9/9/2016 5:29 am
22	F809081622.D	8270BNA8.M	Q809081601	QA/QC 8270 LCS1 MSAK..	9/9/2016 6:02 am

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Analysis log File

Total Files Reported in Log : 34
Log Generated From Directory: O:\Organics\DATA\BNA8\2016\SEP\SEP09\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F809091601.D	8270BNA8.M	WG930519-2	WG930519,MSAK38	9/9/2016 11:09 am
2	F809091602.D	8270BNA8.M	WG930519-3	WG930519,MSAK74,ICAL..	9/9/2016 11:41 am
3	F809091603.D	8270BNA8.M	WG930519-4	WG930519,MSAK58,ICAL..	9/9/2016 12:16 pm
4	F809091604.D	8270BNA8.M	Q809091601	9/7/16 GPC6 Blk	9/9/2016 12:50 pm
5	F809091605.D	8270BNA8.M	Q809091602	9/7/16 GPC6 LCS1	9/9/2016 1:24 pm
6	F809091606.D	8270BNA8.M	Q809091603	9/7/16 GPC6 LCS2/3	9/9/2016 1:59 pm
7	F809091607.D	8270BNA8.M	Q809091604	9/8/16 GPC4 Blk	9/9/2016 2:34 pm
8	F809091608.D	8270BNA8.M	Q809091605	9/8/16 GPC4 LCS1	9/9/2016 3:05 pm
9	F809091609.D	8270BNA8.M	Q809091606	9/8/16 GPC4 LCS2/3	9/9/2016 3:36 pm
10	F809091610.D	8270BNA8.M	WG929407-1	WG930519,WG929407,IC..	9/9/2016 4:08 pm
11	F809091611.D	8270BNA8.M	WG929407-2	WG930519,WG929407,IC..	9/9/2016 4:39 pm
12	F809091612.D	8270BNA8.M	WG929407-3	WG930519,WG929407,IC..	9/9/2016 5:10 pm
13	F809091613.D	8270BNA8.M	WG928504-1		9/9/2016 5:41 pm
14	F809091614.D	8270BNA8.M	WG928504-2		9/9/2016 6:12 pm
15	F809091615.D	8270BNA8.M	WG928504-3		9/9/2016 6:43 pm
16	F809091616.D	8270BNA8.M	WG927821-1		9/9/2016 7:14 pm
17	F809091617.D	8270BNA8.M	WG927821-2		9/9/2016 7:45 pm
18	F809091618.D	8270BNA8.M	WG927821-3		9/9/2016 8:15 pm
19	F809091619.D	8270BNA8.M	WG930519-6	WG930519,MSAK38	9/9/2016 8:46 pm
20	F809091620.D	8270BNA8.M	WG930519-7	WG930519,MSAK74,ICAL..	9/9/2016 9:16 pm
21	F809091621.D	8270BNA8.M	WG930519-8	WG930519,MSAK58,ICAL..	9/9/2016 9:47 pm
22	F809091622.D	8270BNA8.M	L1625234-01	WG930519,WG929407,IC..	9/9/2016 10:17 pm
23	F809091623.D	8270BNA8.M	WG929407-4	WG930519,WG929407,IC..	9/9/2016 10:48 pm
24	F809091624.D	8270BNA8.M	WG929407-5	WG930519,WG929407,IC..	9/9/2016 11:18 pm
25	F809091625.D	8270BNA8.M	WG929407-6	WG930519,WG929407,IC..	9/9/2016 11:48 pm
26	F809091626.D	8270BNA8.M	L1625234-02	WG930519,WG929407,IC..	9/10/2016 12:19 am
27	F809091627.D	8270BNA8.M	WG929407-7	WG930519,WG929407,IC..	9/10/2016 12:49 am
28	F809091628.D	8270BNA8.M	WG929407-8	WG930519,WG929407,IC..	9/10/2016 1:19 am
29	F809091629.D	8270BNA8.M	L1626650-01		9/10/2016 1:49 am
30	F809091630.D	8270BNA8.M	L1627069-01		9/10/2016 2:19 am
31	F809091631.D	8270BNA8.M	L1627070-01		9/10/2016 2:49 am
32	F809091632.D	8270BNA8.M	L1626915-01		9/10/2016 3:19 am
33	F809091633.D	8270BNA8.M	L1626915-02		9/10/2016 3:49 am
34	F809091634.D	8270BNA8.M	L1626915-03		9/10/2016 4:19 am

SeqLog 1.0 - (c) 2009 Abacus Database Applications

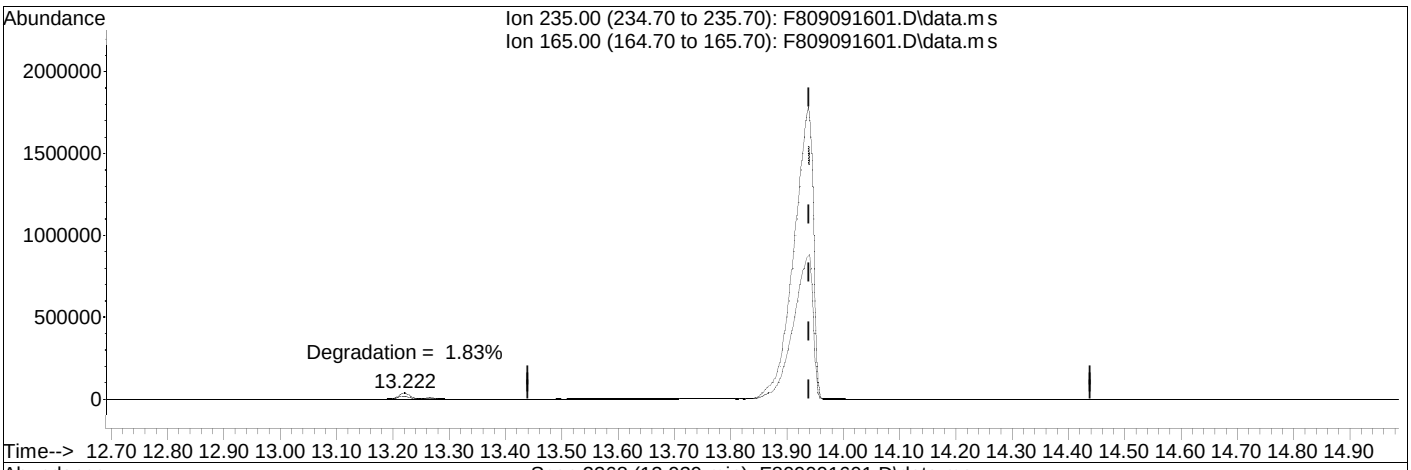
Analytical Event

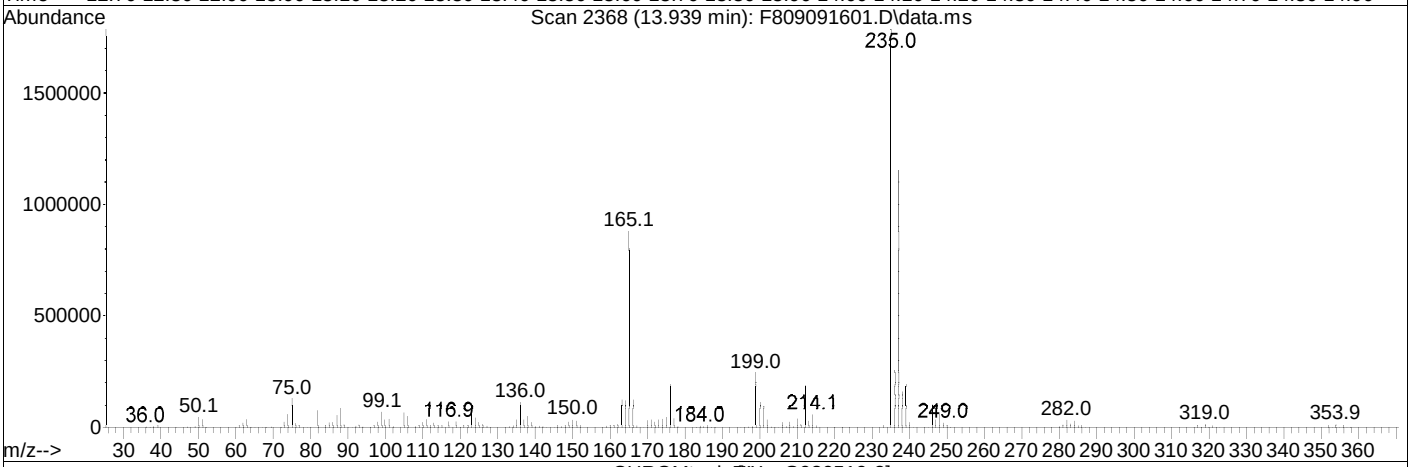
Degradation Check Standard

Quantitation Report (Qedit)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091601.D
Acq On : 9 Sep 2016 11:09 am
Operator : BNA8:ML
Sample : WG930519-2
Misc : WG930519,MSAK38
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 12 13:47:06 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\DFTPPBNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:48:20 2016
Response via : Initial Calibration





CHROMtools™ [W G930519-2]

(4) DDT ( )

13.939min (0.000) 0.00

response 4122946

Ion	Exp%	Act%
235.00	100	100
165.00	49.30	50.64
0.00	0.00	0.00
0.00	0.00	0.00

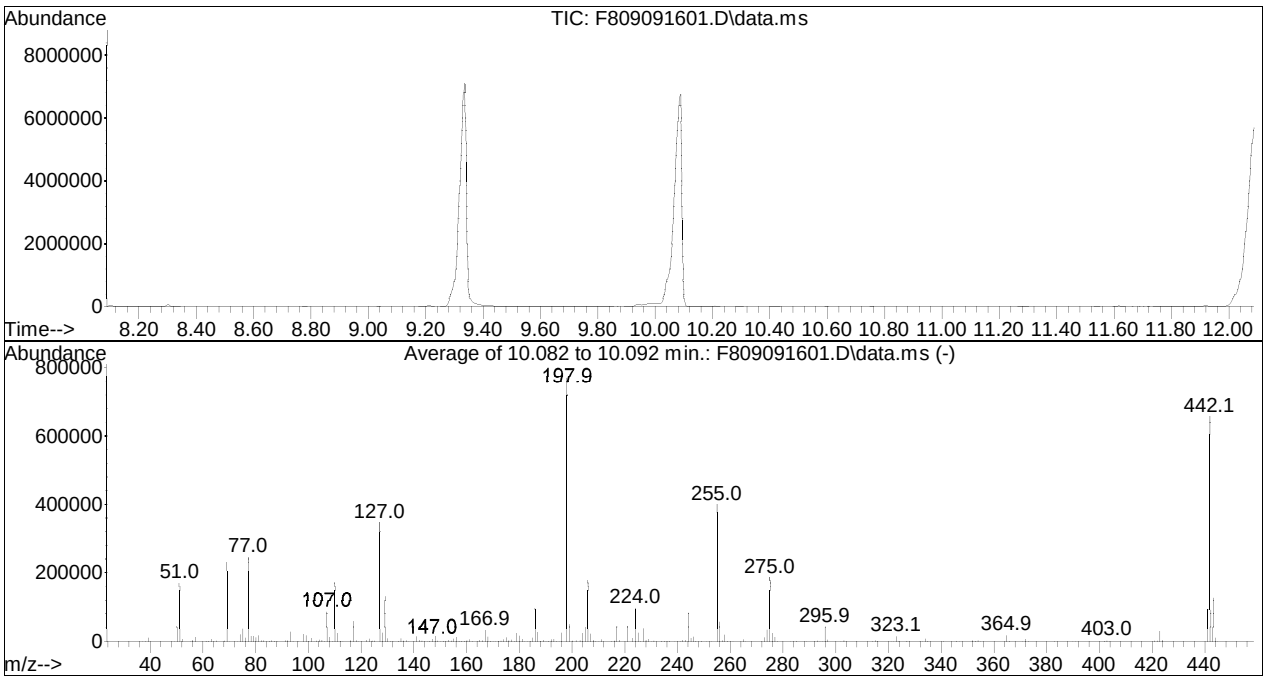
Continuing Calibration
DFTPP Tune

DFTPP

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091601.D
Acq On : 9 Sep 2016 11:09 am
Operator : BNA8:ML
Sample : WG930519-1
Misc : WG930519,MSAK38
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\DFTPPBNA8.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Apr 30 16:06:20 2015



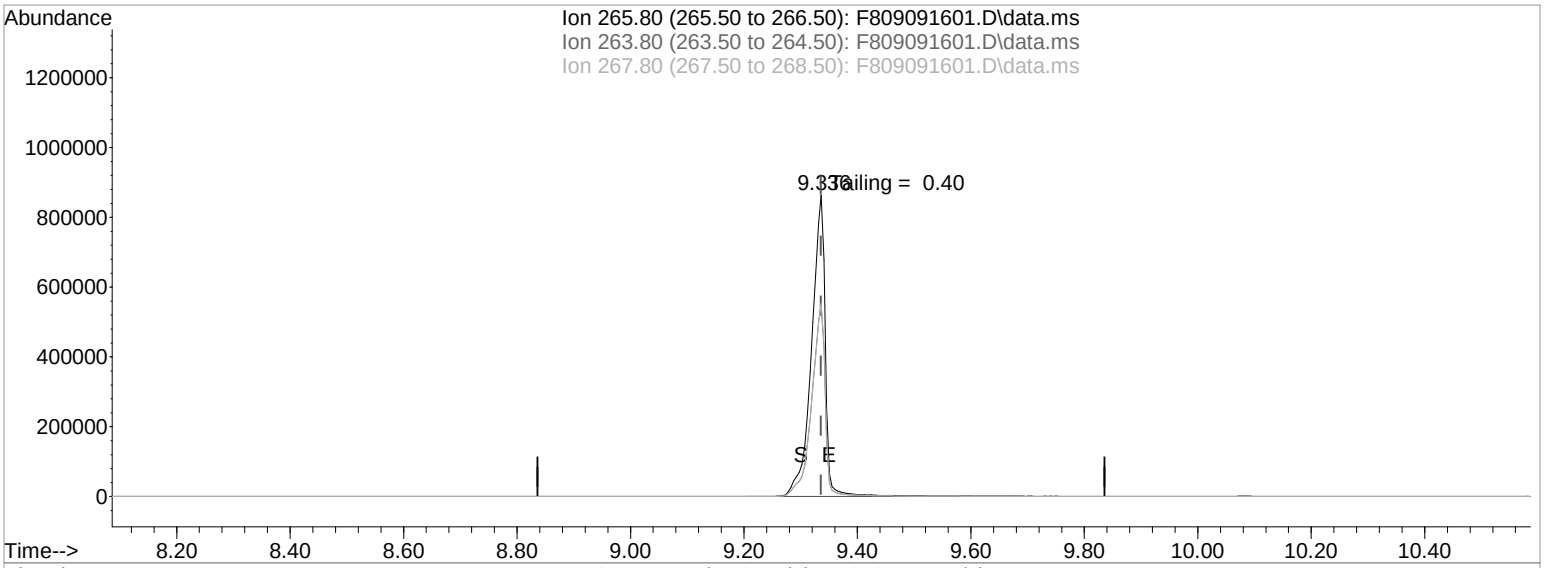
Spectrum Information: Average of 10.082 to 10.092 min.

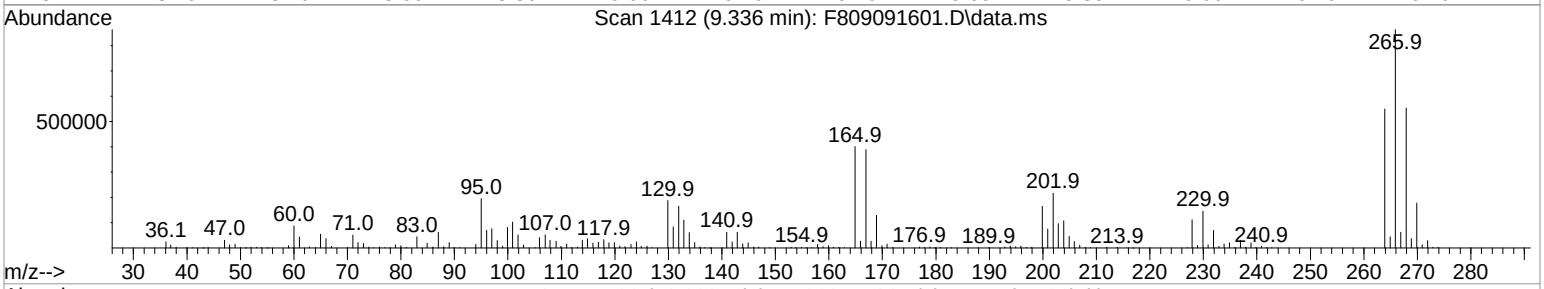
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	22.0	169546	PASS
68	69	0.00	2	1.7	3912	PASS
70	69	0.00	2	0.5	1202	PASS
127	198	10	80	45.0	346748	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	770136	PASS
199	198	5	9	6.6	50555	PASS
275	198	10	60	24.2	186211	PASS
365	198	1	100	2.3	17918	PASS
441	442	0.01	24	14.2	93530	PASS
442	198	50	100	85.3	656635	PASS
443	442	15	24	19.3	127025	PASS

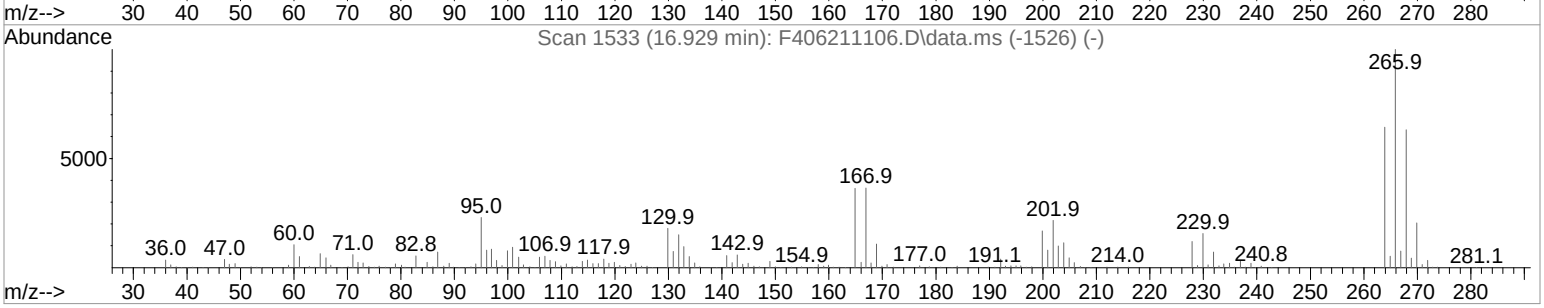
Quantitation Report (Qedit)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091601.D
Acq On : 9 Sep 2016 11:09 am
Operator : BNA8:ML
Sample : WG930519-2
Misc : WG930519,MSAK38
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 12 13:47:06 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\DFTPPBNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:48:20 2016
Response via : Initial Calibration







CHROMtools™ [WG930519-2]

(1) Pentachlorophenol (MC)

9.336min (0.000) 27.61 ug/mL

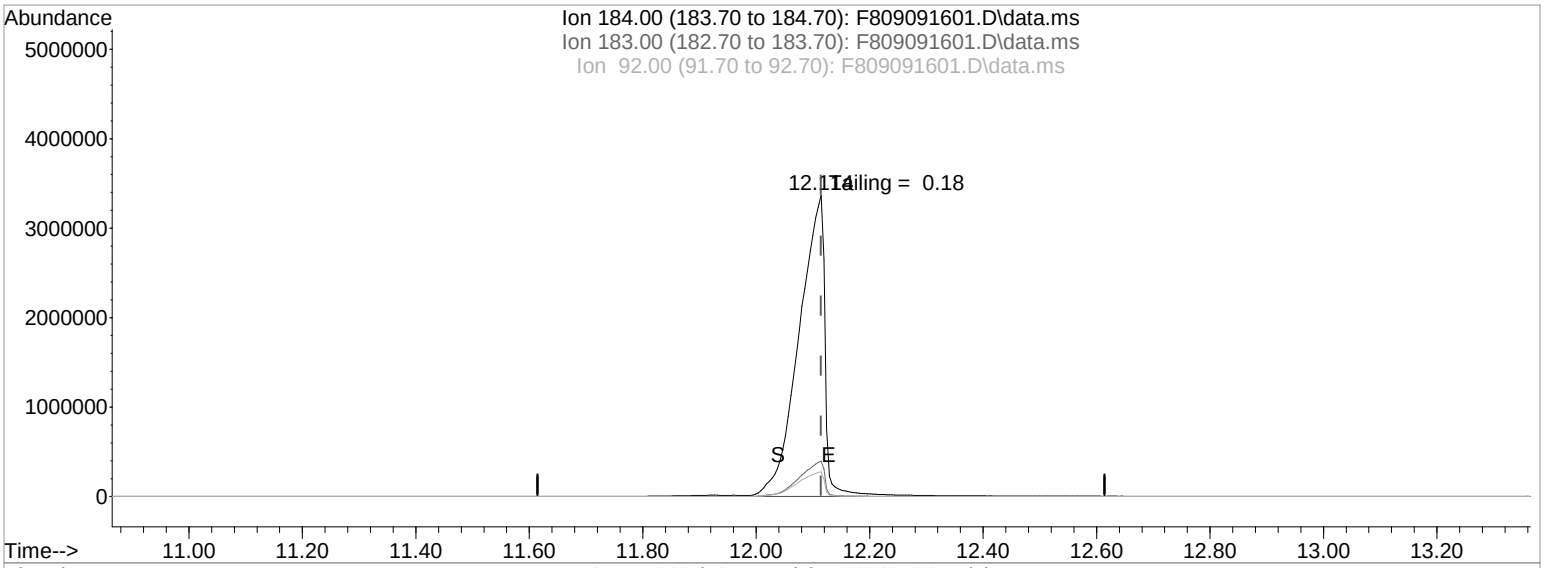
response 1445269 ~2 x >CAL (25)

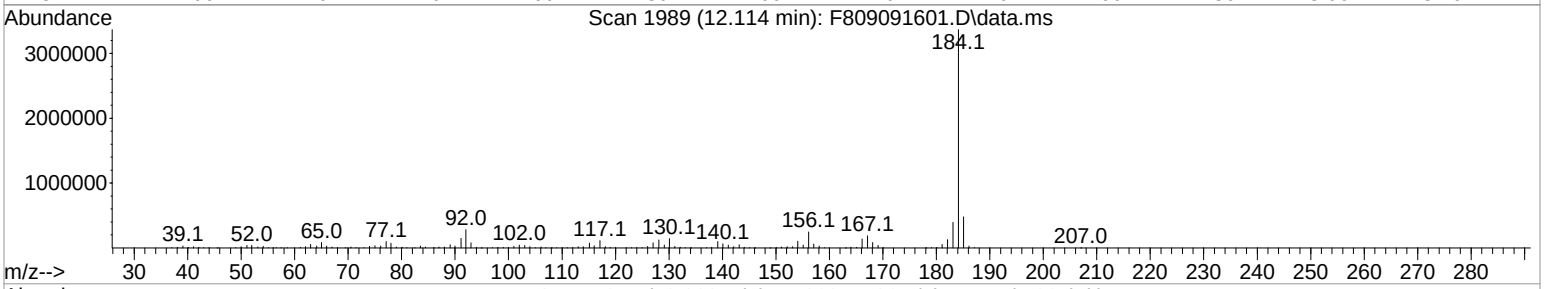
Ion	Exp%	Act%
265.80	100	100
263.80	63.50	63.24
267.80	64.00	63.49
0.00	0.00	0.00

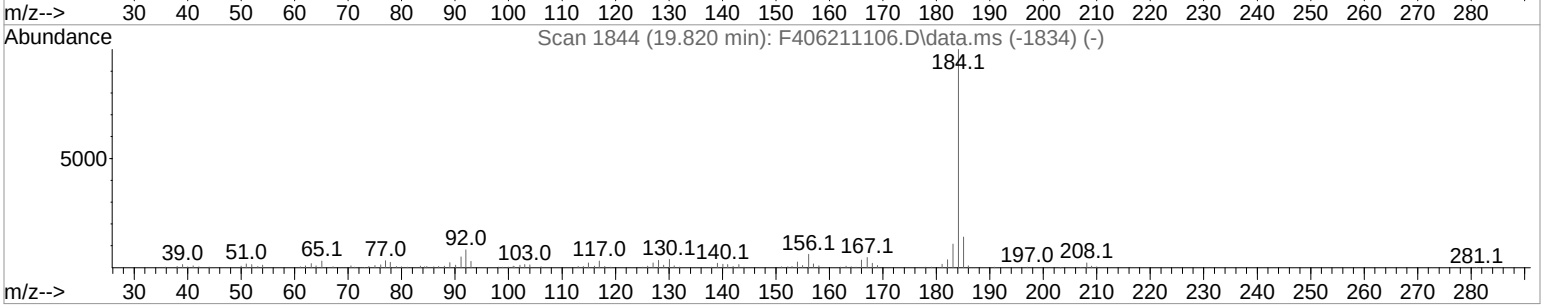
Quantitation Report (Qedit)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091601.D
Acq On : 9 Sep 2016 11:09 am
Operator : BNA8:ML
Sample : WG930519-2
Misc : WG930519,MSAK38
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 12 13:47:06 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\DFTPPBNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:48:20 2016
Response via : Initial Calibration







CHROMtools™ [WG930519-2]

(3) Benzidine (T)

12.114min (0.000) 128.66 ug/mL

response 10468710 ~6 x >CAL (25)

Ion	Exp%	Act%
184.00	100	100
183.00	11.70	11.43
92.00	8.20	8.46
0.00	0.00	0.00

Continuing Calibration

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091602.D
Acq On : 9 Sep 2016 11:41 am
Operator : BNA8:ML
Sample : WG930519-3
Misc : WG930519,MSAK74
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 13:40:58 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
2	T	N-Nitrosodimethylamine	0.601	0.600	0.2	100	0.00
3	t	Pyridine	1.172	1.131	3.5	101	0.00
4	S	2-Fluorophenol	1.201	1.197	0.3	102	0.00
5	T	Benzaldehyde	0.938	0.000	100.0#	0#	-4.51#
6	T	Aniline	1.765	1.718	2.7	100	0.00
7	T	bis(2-Chloroethyl)ether	0.749	0.721	3.7	100	0.00
8	S	Phenol-d5	1.455	1.439	1.1	101	0.00
9	MC	Phenol	1.491	1.467	1.6#	101	0.00
10	M	2-Chlorophenol	1.351	1.345	0.4	102	0.00
11	T	1,3-Dichlorobenzene	1.491	1.493	-0.1	103	0.00
12	MC	1,4-Dichlorobenzene	1.483	1.469	0.9#	103	0.00
13	T	1,2-Dichlorobenzene	1.409	1.400	0.6	102	0.00
14	T	Benzyl alcohol	0.803	0.803	0.0	100	0.00
15	T	bis(2-chloroisopropyl)ether	1.040	0.970	6.7	97	0.00
16	T	2-Methylphenol	1.050	1.034	1.5	101	0.00
17	T	Acetophenone	1.604	0.000	100.0#	0#	-5.23#
18	T	Hexachloroethane	0.542	0.539	0.6	102	0.00
19	MP	N-Nitroso-di-n-propylamine	0.733	0.710	3.1	100	0.00
20	T	4-Methylphenol	1.134	1.072	5.5	99	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	101	0.00
22	S	Nitrobenzene-d5	0.292	0.289	1.0	100	0.00
23	T	Nitrobenzene	0.290	0.286	1.4	100	0.00
24	T	Isophorone	0.467	0.462	1.1	99	0.00
25	TC	2-Nitrophenol	0.190	0.193	-1.6#	100	0.00
26	T	2,4-Dimethylphenol	0.302	0.284	6.0	97	0.00
27	T	Benzoic acid	* 10.000	8.844	11.6	82	0.00
28	T	bis(2-Chloroethoxy)methane	0.338	0.332	1.8	101	0.00
29	TC	2,4-Dichlorophenol	0.276	0.280	-1.4#	101	0.00
30	M	1,2,4-Trichlorobenzene	0.299	0.296	1.0	101	0.00
31	T	Naphthalene	0.961	0.946	1.6	101	0.00
32	T	2-Chloroaniline	0.485	0.484	0.2	101	0.00
33	T	4-Chloroaniline	0.414	0.414	0.0	101	0.00
34	TC	Hexachlorobutadiene	0.152	0.153	-0.7#	102	0.00
35	T	Caprolactam	0.089	0.000	100.0#	0#	-6.43#
36	MC	4-Chloro-3-methylphenol	0.266	0.259	2.6#	98	0.00
37	T	2-Methylnaphthalene	0.652	0.655	-0.5	102	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091602.D
Acq On : 9 Sep 2016 11:41 am
Operator : BNA8:ML
Sample : WG930519-3
Misc : WG930519,MSAK74
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 13:40:58 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00
39	T	1,2,4,5-Tetrachlorobenzene	0.521	0.524	-0.6	102	0.00
40	TP	Hexachlorocyclopentadiene	* 10.000	9.783	2.2	103	0.00
41	TC	2,4,6-Trichlorophenol	0.375	0.374	0.3#	102	0.00
42	T	2,4,5-Trichlorophenol	0.334	0.357	-6.9	106	0.00
43	S	2-Fluorobiphenyl	1.262	1.250	1.0	101	0.00
44	T	Biphenyl	1.443	0.000	100.0#	0#	-7.17#
45	T	2-Chloronaphthalene	1.129	1.122	0.6	101	0.00
46	T	2-Nitroaniline	0.261	0.258	1.1	101	0.00
47	T	Acenaphthylene	1.867	1.851	0.9	100	0.00
48	T	Dimethylphthalate	1.214	1.208	0.5	103	0.00
49	T	2,6-Dinitrotoluene	0.282	0.293	-3.9	103	0.00
50	MC	Acenaphthene	1.136	1.114	1.9#	101	0.00
51	T	3-Nitroaniline	0.323	0.326	-0.9	102	0.00
52	TP	2,4-Dinitrophenol	* 10.000	9.440	5.6	99	0.00
53	T	Dibenzofuran	1.483	1.464	1.3	103	0.00
54		2,3,4,6-Tetrachlorophenol	0.225	0.244	-8.4	104	0.00
55	M	2,4-Dinitrotoluene	0.362	0.372	-2.8	98	0.00
56	MP	4-Nitrophenol	0.122	0.117	4.1	87	0.00
57	T	Fluorene	1.221	1.213	0.7	103	0.00
58	T	4-Chlorophenyl-phenylether	0.547	0.536	2.0	103	0.00
59	T	Diethylphthalate	1.241	1.260	-1.5	102	0.00
60	T	4-Nitroaniline	0.333	0.346	-3.9	102	0.00
61	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
62	T	4,6-Dinitro-2-methylphenol	* 10.000	9.932	0.7	103	0.00
63	T	Azobenzene	0.203	0.208	-2.5	103	0.00
64	TC	n-Nitrosodiphenylamine	0.531	0.538	-1.3#	104	0.00
65	S	2,4,6-Tribromophenol	0.074	0.081	-9.5	106	0.00
66	T	4-Bromophenyl-phenylether	0.186	0.187	-0.5	102	0.00
67	T	Hexachlorobenzene	0.194	0.198	-2.1	104	0.00
68	T	Atrazine	0.205	0.000	100.0#	0#	-9.20#
69	MC	Pentachlorophenol	* 10.000	9.443	5.6#	106	0.00
70	T	Pentachloronitrobenzene	0.077	0.084	-9.1	102	0.00
71	T	Phenanthrene	1.087	1.097	-0.9	103	0.00
72	T	Anthracene	1.074	1.089	-1.4	102	0.00
73	T	Carbazole	1.031	1.064	-3.2	102	0.00
74	T	Di-n-butylphthalate	1.247	1.277	-2.4	100	0.00
75	TC	Fluoranthene	1.124	1.145	-1.9#	100	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091602.D
Acq On : 9 Sep 2016 11:41 am
Operator : BNA8:ML
Sample : WG930519-3
Misc : WG930519,MSAK74
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 13:40:58 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
76	I	Chrysene-d12	1.000	1.000	0.0	104	0.00
77	T	Benzidine	0.826	0.000	100.0#	0#	-12.06#
78	M	Pyrene	1.248	1.228	1.6	102	0.00
79	S	Terphenyl-d14	0.782	0.771	1.4	103	0.00
80	T	Butylbenzylphthalate	0.612	0.632	-3.3	101	0.00
81	T	3,3'-Dichlorobenzidine	0.410	0.000	100.0#	0#	-14.93#
82	T	Benz[a]anthracene	1.183	1.145	3.2	100	0.00
83	T	Chrysene	1.098	1.125	-2.5	107	0.00
84	T	bis(2-Ethylhexyl)phthalate	0.806	0.826	-2.5	99	0.00
85	I	Perylene-d12	1.000	1.000	0.0	106	0.00
86	TC	Di-n-octylphthalate	1.588	1.609	-1.3#	99	0.00
87	T	Benzo[b]fluoranthene	1.221	1.165	4.6	100	0.00
88	T	Benzo[k]fluoranthene	1.116	1.149	-3.0	103	0.00
89	TC	Benzo[a]pyrene	1.150	1.117	2.9#	100	0.00
90	T	Indeno[1,2,3-cd]pyrene	1.000	0.998	0.2	103	0.00
91	T	Dibenz[a,h]anthracene	1.008	1.052	-4.4	103	0.00
92	T	Benzo[g,h,i]perylene	1.082	1.041	3.8	98	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 13

Mass Discrimination (Concentration)	Ratio	Range Limits
Benzo[g,h,i]perylene to Phenanthrene	0.95	0.70 - 1.30

Mass Discrimination (Response)	Ratio	Range Limits
Benzo[g,h,i]perylene to Phenanthrene	0.83	0.70 - 2.00

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091602.D
Acq On : 9 Sep 2016 11:41 am
Operator : BNA8:ML
Sample : WG930519-3
Misc : WG930519,MSAK74
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 13:40:58 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.882	152	223431	5.000 ug/mL	0.00
21) Naphthalene-d8	6.047	136	833846	5.000 ug/mL	0.00
38) Acenaphthene-d10	7.752	164	450264	5.000 ug/mL	0.00
61) Phenanthrene-d10	9.601	188	736431M4	5.000 ug/mL	0.00
76) Chrysene-d12	14.927	240	708030	5.000 ug/mL	0.00
85) Perylene-d12	18.003	264	647646M4	5.000 ug/mL	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	3.832	112	534993	9.969 ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 49.84%		
8) Phenol-d5	4.550	99	642895	9.889 ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 49.44%		
22) Nitrobenzene-d5	5.378	82	482541	9.917 ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 49.59%		
43) 2-Fluorobiphenyl	7.078	172	1125245	9.904 ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 49.52%		
65) 2,4,6-Tribromophenol	8.647	330	118958M4	10.982 ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 54.91%		
79) Terphenyl-d14	12.581	244	1092463	9.864 ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 49.32%		
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	2.946	74	268073	9.990 ug/mL	95
3) Pyridine	2.960	79	505359	9.651 ug/mL	95
5) Benzaldehyde	0.000		0	N.D. d	
6) Aniline	4.603	93	767621M4	9.733 ug/ml	
7) bis(2-Chloroethyl)ether	4.641	63	322395	9.632 ug/mL	97
9) Phenol	4.564	94	655746	9.843 ug/mL#	91
10) 2-Chlorophenol	4.704	128	601055	9.953 ug/mL	100
11) 1,3-Dichlorobenzene	4.834	146	667082	10.013 ug/mL	100
12) 1,4-Dichlorobenzene	4.896	146	656369	9.903 ug/mL	99
13) 1,2-Dichlorobenzene	5.031	146	625552	9.934 ug/mL	100
14) Benzyl alcohol	4.997	108	358702	9.991 ug/mL	99
15) bis(2-chloroisopropyl)eth	5.108	45	433387	9.327 ug/mL#	9
16) 2-Methylphenol	5.089	108	462197M4	9.854 ug/mL	
17) Acetophenone	0.000		0	N.D. d	
18) Hexachloroethane	5.334	117	240752	9.948 ug/mL	92
19) N-Nitroso-di-n-propylamin	5.233	70	317280	9.687 ug/mL	92
20) 4-Methylphenol	5.228	108	479008	9.453 ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091602.D
Acq On : 9 Sep 2016 11:41 am
Operator : BNA8:ML
Sample : WG930519-3
Misc : WG930519,MSAK74
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 13:40:58 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Nitrobenzene	5.397	77	476237	9.846	ug/mL	94
24) Isophorone	5.614	82	770117	9.895	ug/mL	96
25) 2-Nitrophenol	5.686	139	321566	10.169	ug/mL#	88
26) 2,4-Dimethylphenol	5.715	107	473692	9.420	ug/mL	97
27) Benzoic acid	5.811	105	69214M4	8.844	ug/mL	
28) bis(2-Chloroethoxy)methan	5.806	93	554032	9.827	ug/mL	100
29) 2,4-Dichlorophenol	5.912	162	466654	10.144	ug/mL	98
30) 1,2,4-Trichlorobenzene	5.989	180	493608	9.883	ug/mL	99
31) Naphthalene	6.066	128	1577775	9.847	ug/mL	99
32) 2-Chloroaniline	5.652	127	806357	9.979	ug/ml	99
33) 4-Chloroaniline	6.114	127	691232M4	10.019	ug/mL	
34) Hexachlorobutadiene	6.172	225	254577	10.026	ug/mL	99
35) Caprolactam	0.000		0	N.D.	d	
36) 4-Chloro-3-methylphenol	6.577	107	431595	9.739	ug/mL	98
37) 2-Methylnaphthalene	6.726	142	1091558	10.042	ug/mL	99
39) 1,2,4,5-Tetrachlorobenzen	6.885	216	471929	10.058	ug/mL	100
40) Hexachlorocyclopentadiene	6.875	237	204877	9.783	ug/mL	96
41) 2,4,6-Trichlorophenol	6.996	196	336671M6	9.959	ug/mL	
42) 2,4,5-Trichlorophenol	7.034	196	321240M4	10.693	ug/mL	
44) Biphenyl	0.000		0	N.D.	d	
45) 2-Chloronaphthalene	7.198	162	1010036	9.934	ug/mL	99
46) 2-Nitroaniline	7.304	65	232737	9.902	ug/mL	98
47) Acenaphthylene	7.607	152	1666459	9.913	ug/mL	99
48) Dimethylphthalate	7.472	163	1088200	9.950	ug/mL	99
49) 2,6-Dinitrotoluene	7.540	165	264221M4	10.401	ug/mL	
50) Acenaphthene	7.785	153	1002784	9.804	ug/mL	98
51) 3-Nitroaniline	7.713	138	293600M4	10.100	ug/mL	
52) 2,4-Dinitrophenol	7.819	184	112130	9.440	ug/mL#	82
53) Dibenzofuran	7.968	168	1318212	9.872	ug/mL	99
54) 2,3,4,6-Tetrachlorophenol	8.103	232	219710M4	10.846	ug/mL	
55) 2,4-Dinitrotoluene	7.954	165	334796	10.274	ug/mL#	88
56) 4-Nitrophenol	7.891	109	105800	9.609	ug/mL	96
57) Fluorene	8.354	166	1092688	9.934	ug/mL	100
58) 4-Chlorophenyl-phenylethe	8.349	204	482729	9.803	ug/mL	98
59) Diethylphthalate	8.219	149	1134253	10.147	ug/mL	100
60) 4-Nitroaniline	8.392	138	311755	10.383	ug/mL	96
62) 4,6-Dinitro-2-methylpheno	8.416	198	167837M4	9.932	ug/mL	
63) Azobenzene	8.541	182	306042	10.243	ug/mL	75
64) n-Nitrosodiphenylamine	8.498	169	793101	10.134	ug/mL	99
66) 4-Bromophenyl-phenylether	8.965	248	275237M4	10.070	ug/mL	
67) Hexachlorobenzene	9.037	284	291023	10.185	ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091602.D
Acq On : 9 Sep 2016 11:41 am
Operator : BNA8:ML
Sample : WG930519-3
Misc : WG930519,MSAK74
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 13:40:58 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) Atrazine	0.000		0	N.D.	d	
69) Pentachlorophenol	9.322	266	146672M4	9.443	ug/mL	
70) Pentachloronitrobenzene	9.336	237	123106	10.816	ug/ml	91
71) Phenanthrene	9.639	178	1616122M4	10.095	ug/mL	
72) Anthracene	9.716	178	1604650M4	10.147	ug/mL	
73) Carbazole	9.981	167	1567442	10.320	ug/mL	100
74) Di-n-butylphthalate	10.598	149	1881423	10.241	ug/mL	100
75) Fluoranthene	11.734	202	1687146M4	10.193	ug/mL	
77) Benzidine	0.000		0	N.D.	d	
78) Pyrene	12.187	202	1738633	9.839	ug/mL	96
80) Butylbenzylphthalate	13.771	149	894561	10.317	ug/mL	95
81) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
82) Benz[a]anthracene	14.907	228	1621745M6	9.680	ug/mL	
83) Chrysene	14.989	228	1593460M4	10.244	ug/mL	
84) bis(2-Ethylhexyl)phthalat	15.230	149	1168980	10.247	ug/mL	99
86) Di-n-octylphthalate	16.732	149	2084751	10.133	ug/mL	99
87) Benzo[b]fluoranthene	17.276	252	1509020M6	9.543	ug/mL	
88) Benzo[k]fluoranthene	17.334	252	1488127M6	10.295	ug/mL	
89) Benzo[a]pyrene	17.902	252	1446889	9.712	ug/mL	98
90) Indeno[1,2,3-cd]pyrene	19.828	276	1293018	9.981	ug/mL	97
91) Dibenz[a,h]anthracene	19.881	278	1362285	10.436	ug/mL	97
92) Benzo[g,h,i]perylene	20.276	276	1348113	9.622	ug/mL	99

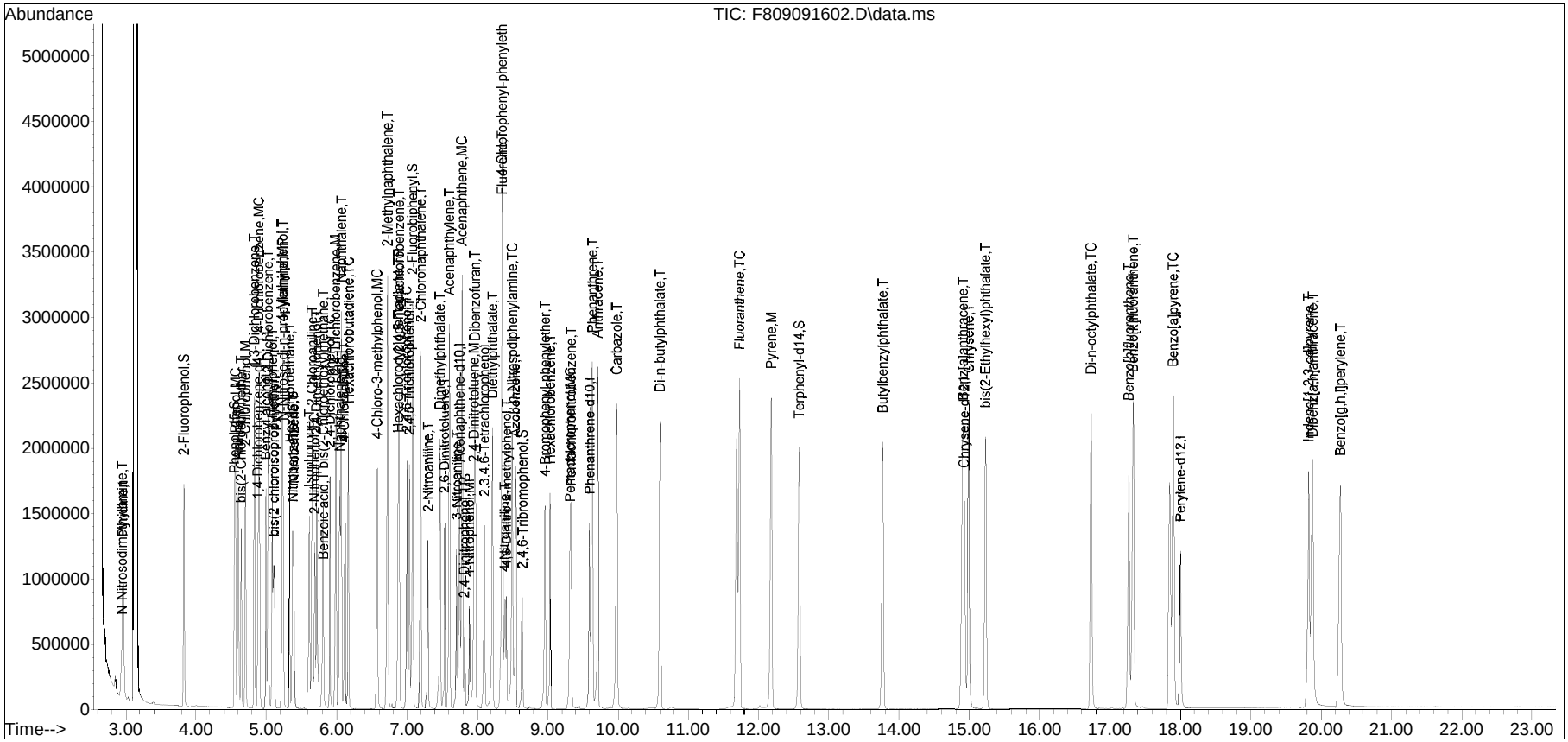
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091602.D
Acq On : 9 Sep 2016 11:41 am
Operator : BNA8:ML
Sample : WG930519-3
Misc : WG930519,MSAK74
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 13:40:58 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed



Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091603.D
Acq On : 9 Sep 2016 12:16 pm
Operator : BNA8:ML
Sample : WG930519-4
Misc : WG930519,MSAK58
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 13:42:00 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	116	0.00
2	T	N-Nitrosodimethylamine	0.601	0.000	100.0#	0#	-2.95#
3	t	Pyridine	1.172	0.000	100.0#	0#	-2.96#
4	S	2-Fluorophenol	1.201	0.000	100.0#	0#	-3.83#
5	T	Benzaldehyde	0.938	0.950	-1.3	96	0.00
6	T	Aniline	1.765	0.000	100.0#	0#	-4.60#
7	T	bis(2-Chloroethyl)ether	0.749	0.000	100.0#	0#	-4.64#
8	S	Phenol-d5	1.455	0.000	100.0#	0#	-4.55#
9	MC	Phenol	1.491	0.000	100.0#	0#	-4.56#
10	M	2-Chlorophenol	1.351	0.000	100.0#	0#	-4.70#
11	T	1,3-Dichlorobenzene	1.491	0.000	100.0#	0#	-4.83#
12	MC	1,4-Dichlorobenzene	1.483	0.000	100.0#	0#	-4.90#
13	T	1,2-Dichlorobenzene	1.409	0.000	100.0#	0#	-5.03#
14	T	Benzyl alcohol	0.803	0.000	100.0#	0#	-5.00#
15	T	bis(2-chloroisopropyl)ether	1.040	0.000	100.0#	0#	-5.11#
16	T	2-Methylphenol	1.050	0.000	100.0#	0#	-5.09#
17	T	Acetophenone	1.604	1.645	-2.6	96	0.00
18	T	Hexachloroethane	0.542	0.000	100.0#	0#	-5.33#
19	MP	N-Nitroso-di-n-propylamine	0.733	0.000	100.0#	0#	-5.23#
20	T	4-Methylphenol	1.134	0.000	100.0#	0#	-5.23#
21	I	Naphthalene-d8	1.000	1.000	0.0	115	0.00
22	S	Nitrobenzene-d5	0.292	0.000	100.0#	0#	-5.38#
23	T	Nitrobenzene	0.290	0.000	100.0#	0#	-5.40#
24	T	Isophorone	0.467	0.000	100.0#	0#	-5.61#
25	TC	2-Nitrophenol	0.190	0.000	100.0#	0#	-5.69#
26	T	2,4-Dimethylphenol	0.302	0.000	100.0#	0#	-5.71#
27	T	Benzoic acid	* 10.000	0.000	100.0#	0	-5.81#
28	T	bis(2-Chloroethoxy)methane	0.338	0.000	100.0#	0#	-5.81#
29	TC	2,4-Dichlorophenol	0.276	0.000	100.0#	0#	-5.91#
30	M	1,2,4-Trichlorobenzene	0.299	0.000	100.0#	0#	-5.99#
31	T	Naphthalene	0.961	0.000	100.0#	0#	-6.07#
32	T	2-Chloroaniline	0.485	0.000	100.0#	0#	-5.65#
33	T	4-Chloroaniline	0.414	0.000	100.0#	0#	-6.11#
34	TC	Hexachlorobutadiene	0.152	0.000	100.0#	0#	-6.17#
35	T	Caprolactam	0.089	0.101	-13.5	98	0.00
36	MC	4-Chloro-3-methylphenol	0.266	0.000	100.0#	0#	-6.58#
37	T	2-Methylnaphthalene	0.652	0.000	100.0#	0#	-6.73#

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091603.D
Acq On : 9 Sep 2016 12:16 pm
Operator : BNA8:ML
Sample : WG930519-4
Misc : WG930519,MSAK58
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 13:42:00 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00
39	T	1,2,4,5-Tetrachlorobenzene	0.521	0.000	100.0#	0#	-6.88#
40	TP	Hexachlorocyclopentadiene	* 10.000	0.000	100.0#	0	-6.88#
41	TC	2,4,6-Trichlorophenol	0.375	0.000	100.0#	0#	-7.00#
42	T	2,4,5-Trichlorophenol	0.334	0.000	100.0#	0#	-7.03#
43	S	2-Fluorobiphenyl	1.262	0.000	100.0#	0#	-7.08#
44	T	Biphenyl	1.443	1.479	-2.5	98	0.00
45	T	2-Chloronaphthalene	1.129	0.000	100.0#	0#	-7.20#
46	T	2-Nitroaniline	0.261	0.000	100.0#	0#	-7.30#
47	T	Acenaphthylene	1.867	0.000	100.0#	0#	-7.61#
48	T	Dimethylphthalate	1.214	0.000	100.0#	0#	-7.47#
49	T	2,6-Dinitrotoluene	0.282	0.000	100.0#	0#	-7.54#
50	MC	Acenaphthene	1.136	0.000	100.0#	0#	-7.79#
51	T	3-Nitroaniline	0.323	0.000	100.0#	0#	-7.71#
52	TP	2,4-Dinitrophenol	* 10.000	0.000	100.0#	0	-7.82#
53	T	Dibenzofuran	1.483	0.000	100.0#	0#	-7.97#
54		2,3,4,6-Tetrachlorophenol	0.225	0.000	100.0#	0#	-8.10#
55	M	2,4-Dinitrotoluene	0.362	0.000	100.0#	0#	-7.95#
56	MP	4-Nitrophenol	0.122	0.000	100.0#	0#	-7.89#
57	T	Fluorene	1.221	0.000	100.0#	0#	-8.35#
58	T	4-Chlorophenyl-phenylether	0.547	0.000	100.0#	0#	-8.35#
59	T	Diethylphthalate	1.241	0.000	100.0#	0#	-8.22#
60	T	4-Nitroaniline	0.333	0.000	100.0#	0#	-8.39#
61	I	Phenanthrene-d10	1.000	1.000	0.0	107	0.00
62	T	4,6-Dinitro-2-methylphenol	* 10.000	0.000	100.0#	0	-8.42#
63	T	Azobenzene	0.203	0.000	100.0#	0#	-8.54#
64	TC	n-Nitrosodiphenylamine	0.531	0.000	100.0#	0#	-8.50#
65	S	2,4,6-Tribromophenol	0.074	0.000	100.0#	0#	-8.65#
66	T	4-Bromophenyl-phenylether	0.186	0.000	100.0#	0#	-8.97#
67	T	Hexachlorobenzene	0.194	0.000	100.0#	0#	-9.04#
68	T	Atrazine	0.205	0.227	-10.7	98	0.00
69	MC	Pentachlorophenol	* 10.000	0.000	100.0#	0	-9.32#
70	T	Pentachloronitrobenzene	0.077	0.000	100.0#	0#	-9.34#
71	T	Phenanthrene	1.087	0.000	100.0#	0#	-9.64#
72	T	Anthracene	1.074	0.000	100.0#	0#	-9.72#
73	T	Carbazole	1.031	0.000	100.0#	0#	-9.98#
74	T	Di-n-butylphthalate	1.247	0.000	100.0#	0#	-10.60#
75	TC	Fluoranthene	1.124	0.000	100.0#	0#	-11.73#

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091603.D
Acq On : 9 Sep 2016 12:16 pm
Operator : BNA8:ML
Sample : WG930519-4
Misc : WG930519,MSAK58
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 13:42:00 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
76	I	Chrysene-d12	1.000	1.000	0.0	109	0.00
77	T	Benzidine	0.826	0.940	-13.8	103	0.00
78	M	Pyrene	1.248	0.000	100.0#	0#	-12.19#
79	S	Terphenyl-d14	0.782	0.000	100.0#	0#	-12.58#
80	T	Butylbenzylphthalate	0.612	0.000	100.0#	0#	-13.77#
81	T	3,3'-Dichlorobenzidine	0.410	0.463	-12.9	100	0.00
82	T	Benz[a]anthracene	1.183	0.000	100.0#	0#	-14.91#
83	T	Chrysene	1.098	0.000	100.0#	0#	-14.99#
84	T	bis(2-Ethylhexyl)phthalate	0.806	0.000	100.0#	0#	-15.23#
85	I	Perylene-d12	1.000	1.000	0.0	112	0.00
86	TC	Di-n-octylphthalate	1.588	0.000	100.0#	0#	-16.73#
87	T	Benzo[b]fluoranthene	1.221	0.000	100.0#	0#	-17.28#
88	T	Benzo[k]fluoranthene	1.116	0.000	100.0#	0#	-17.33#
89	TC	Benzo[a]pyrene	1.150	0.000	100.0#	0#	-17.90#
90	T	Indeno[1,2,3-cd]pyrene	1.000	0.000	100.0#	0#	-19.83#
91	T	Dibenz[a,h]anthracene	1.008	0.000	100.0#	0#	-19.88#
92	T	Benzo[g,h,i]perylene	1.082	0.000	100.0#	0#	-20.28#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 13

Mass Discrimination (Concentration)	Ratio	Range Limits
Benzo[g,h,i]perylene to Phenanthrene	0.000	0.70 - 1.30

Mass Discrimination (Response)	Ratio	Range Limits
Benzo[g,h,i]perylene to Phenanthrene	0.000	0.70 - 2.00

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091603.D
Acq On : 9 Sep 2016 12:16 pm
Operator : BNA8:ML
Sample : WG930519-4
Misc : WG930519,MSAK58
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 13:42:00 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	251861	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	945487	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	502300	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	784441	5.000	ug/mL	0.00
76) Chrysene-d12	14.917	240	741312	5.000	ug/mL	0.00
85) Perylene-d12	17.994	264	681590	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0	0.000	ug/mL	
Spiked Amount 20.000	Range 21 - 100		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 94		Recovery = 0.00%#			
22) Nitrobenzene-d5	0.000	82	0	0.000	ug/mL	
Spiked Amount 20.000	Range 35 - 114		Recovery = 0.00%#			
43) 2-Fluorobiphenyl	0.000	172	0	0.000	ug/mL	
Spiked Amount 20.000	Range 43 - 116		Recovery = 0.00%#			
65) 2,4,6-Tribromophenol	0.000	330	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 123		Recovery = 0.00%#			
79) Terphenyl-d14	0.000	244	0	0.000	ug/mL	
Spiked Amount 20.000	Range 33 - 141		Recovery = 0.00%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	0.000		0	N.D.		
5) Benzaldehyde	4.511	77	478307	10.127	ug/ml	100
6) Aniline	0.000		0	N.D.		
7) bis(2-Chloroethyl)ether	0.000		0	N.D.		
9) Phenol	0.000		0	N.D.		
10) 2-Chlorophenol	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) Benzyl alcohol	0.000		0	N.D.		
15) bis(2-chloroisopropyl)eth	0.000		0	N.D.		
16) 2-Methylphenol	0.000		0	N.D.		
17) Acetophenone	5.229	105	828380	10.253	ug/ml	97
18) Hexachloroethane	0.000		0	N.D.		
19) N-Nitroso-di-n-propylamin	0.000		0	N.D.		
20) 4-Methylphenol	0.000		0	N.D.		
23) Nitrobenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091603.D
Acq On : 9 Sep 2016 12:16 pm
Operator : BNA8:ML
Sample : WG930519-4
Misc : WG930519,MSAK58
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 13:42:00 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Isophorone	0.000		0	N.D.		
25) 2-Nitrophenol	0.000		0	N.D.		
26) 2,4-Dimethylphenol	0.000		0	N.D.		
27) Benzoic acid	0.000		0	N.D. d		
28) bis(2-Chloroethoxy)methan	0.000		0	N.D.		
29) 2,4-Dichlorophenol	0.000		0	N.D.		
30) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
31) Naphthalene	0.000		0	N.D.		
32) 2-Chloroaniline	0.000		0	N.D.		
33) 4-Chloroaniline	0.000		0	N.D.		
34) Hexachlorobutadiene	0.000		0	N.D.		
35) Caprolactam	6.432	113	191500	11.338	ug/ml	99
36) 4-Chloro-3-methylphenol	0.000		0	N.D.		
37) 2-Methylnaphthalene	0.000		0	N.D.		
39) 1,2,4,5-Tetrachlorobenzen	0.000		0	N.D.		
40) Hexachlorocyclopentadiene	0.000		0	N.D.		
41) 2,4,6-Trichlorophenol	0.000		0	N.D.		
42) 2,4,5-Trichlorophenol	0.000		0	N.D.		
44) Biphenyl	7.174	154	1485526	10.247	ug/ml	100
45) 2-Chloronaphthalene	0.000		0	N.D.		
46) 2-Nitroaniline	0.000		0	N.D. d		
47) Acenaphthylene	0.000		0	N.D.		
48) Dimethylphthalate	0.000		0	N.D.		
49) 2,6-Dinitrotoluene	0.000		0	N.D.		
50) Acenaphthene	0.000		0	N.D.		
51) 3-Nitroaniline	0.000		0	N.D. d		
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) Dibenzofuran	0.000		0	N.D.		
54) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
55) 2,4-Dinitrotoluene	0.000		0	N.D.		
56) 4-Nitrophenol	0.000		0	N.D. d		
57) Fluorene	0.000		0	N.D.		
58) 4-Chlorophenyl-phenylethe	0.000		0	N.D.		
59) Diethylphthalate	0.000		0	N.D.		
60) 4-Nitroaniline	0.000		0	N.D.		
62) 4,6-Dinitro-2-methylpheno	0.000		0	N.D.		
63) Azobenzene	0.000		0	N.D.		
64) n-Nitrosodiphenylamine	0.000		0	N.D.		
66) 4-Bromophenyl-phenylether	0.000		0	N.D.		
67) Hexachlorobenzene	0.000		0	N.D.		
68) Atrazine	9.196	200	356748	11.093	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091603.D
Acq On : 9 Sep 2016 12:16 pm
Operator : BNA8:ML
Sample : WG930519-4
Misc : WG930519,MSAK58
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 13:42:00 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Pentachlorophenol	0.000		0	N.D.		
70) Pentachloronitrobenzene	0.000		0	N.D.		
71) Phenanthrene	0.000		0	N.D.		
72) Anthracene	0.000		0	N.D.		
73) Carbazole	0.000		0	N.D.		
74) Di-n-butylphthalate	0.000		0	N.D.		
75) Fluoranthene	0.000		0	N.D.		
77) Benzidine	12.061	184	1394076M4	11.389	ug/mL	
78) Pyrene	0.000		0	N.D.		
80) Butylbenzylphthalate	0.000		0	N.D.		
81) 3,3'-Dichlorobenzidine	14.931	252	687175	11.318	ug/mL	99
82) Benz[a]anthracene	0.000		0	N.D. d		
83) Chrysene	0.000		0	N.D. d		
84) bis(2-Ethylhexyl)phthalat	0.000		0	N.D. d		
86) Di-n-octylphthalate	0.000		0	N.D.		
87) Benzo[b]fluoranthene	0.000		0	N.D.		
88) Benzo[k]fluoranthene	0.000		0	N.D.		
89) Benzo[a]pyrene	0.000		0	N.D. d		
90) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
91) Dibenz[a,h]anthracene	0.000		0	N.D.		
92) Benzo[g,h,i]perylene	0.000		0	N.D.		

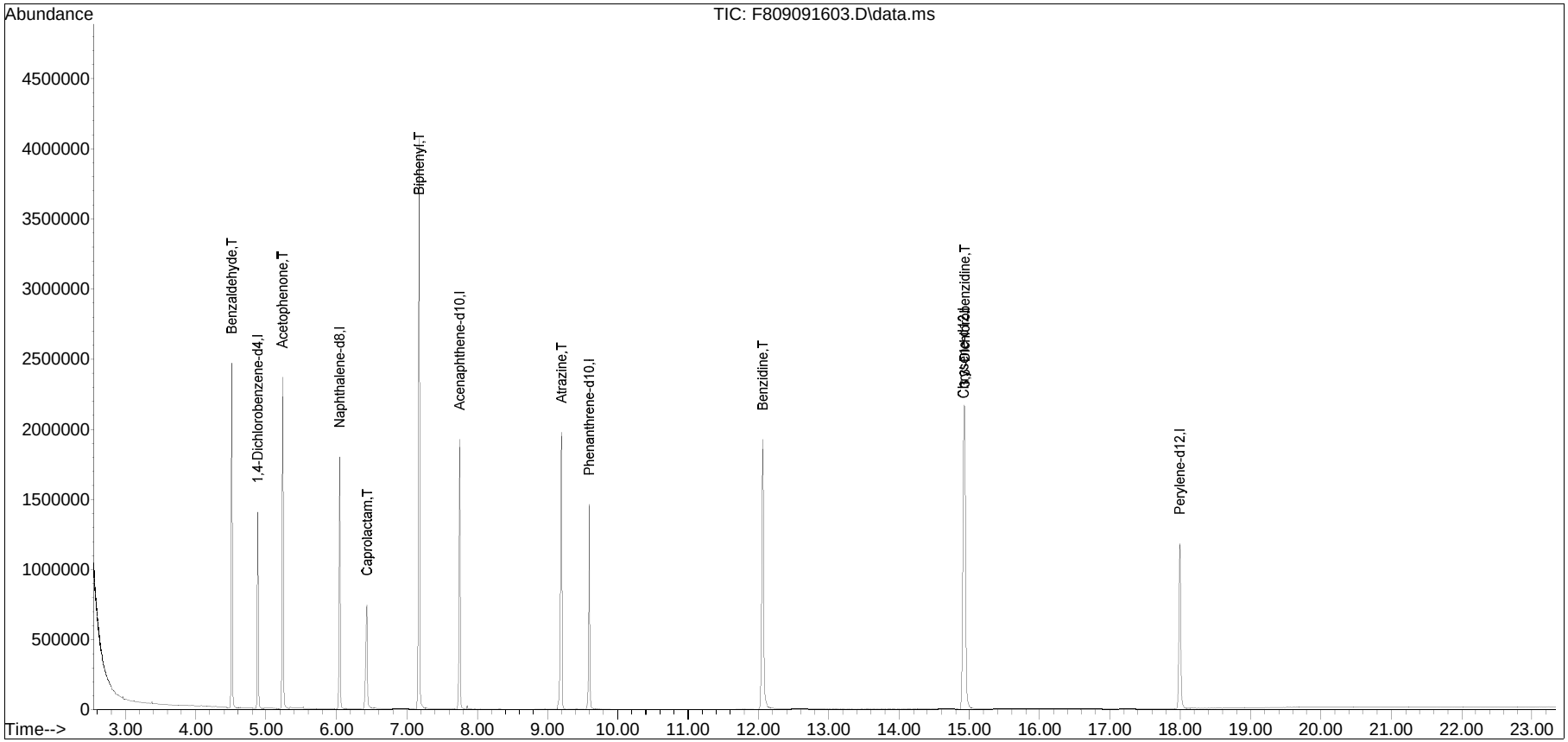
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091603.D
Acq On : 9 Sep 2016 12:16 pm
Operator : BNA8:ML
Sample : WG930519-4
Misc : WG930519,MSAK58
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 13:42:00 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed



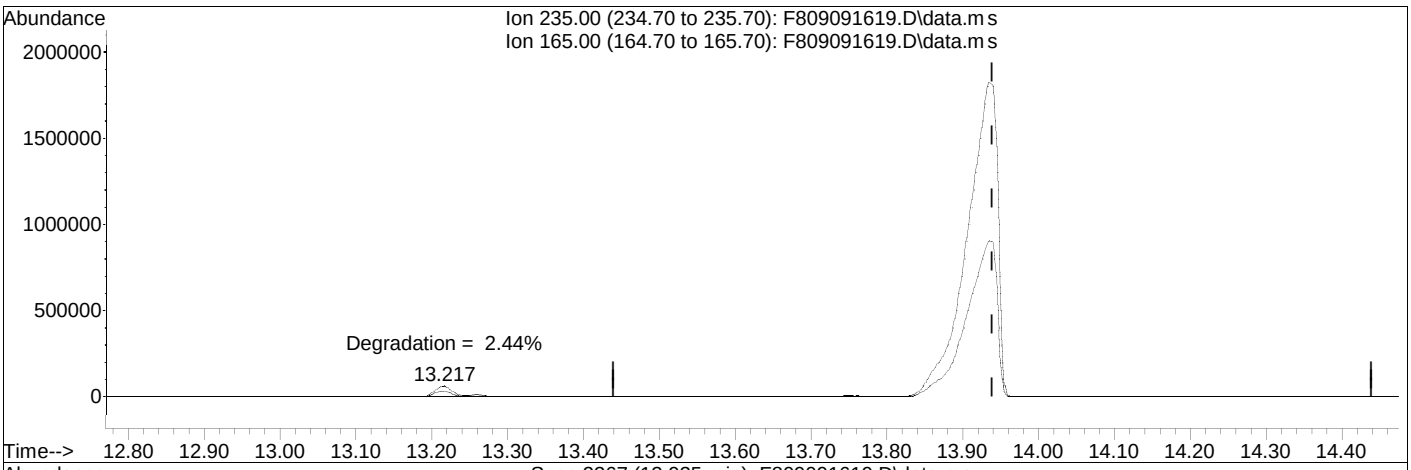
Analytical Event

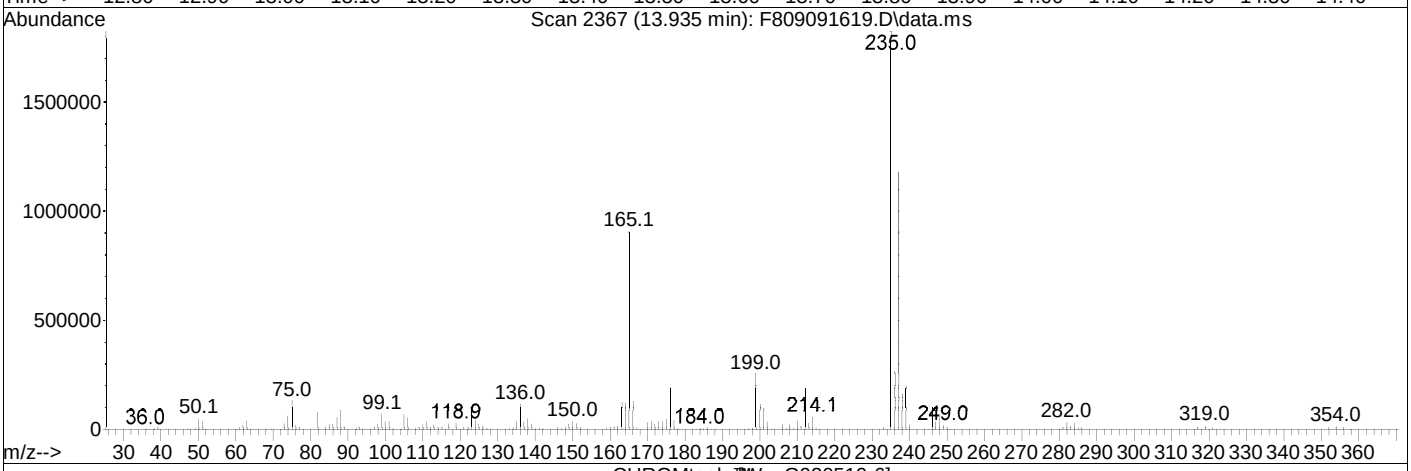
Degradation Check Standard

Quantitation Report (Qedit)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091619.D
Acq On : 9 Sep 2016 8:46 pm
Operator : BNA8:ML
Sample : WG930519-6
Misc : WG930519,MSAK38
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 12 14:15:22 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\DFTPPBNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:48:20 2016
Response via : Initial Calibration





CHROMtools TM [W G930519-6]

(4) DDT ( )

13.935min (-0.005) 0.00

response 4999402

Ion	Exp%	Act%
235.00	100	100
165.00	49.30	49.79
0.00	0.00	0.00
0.00	0.00	0.00

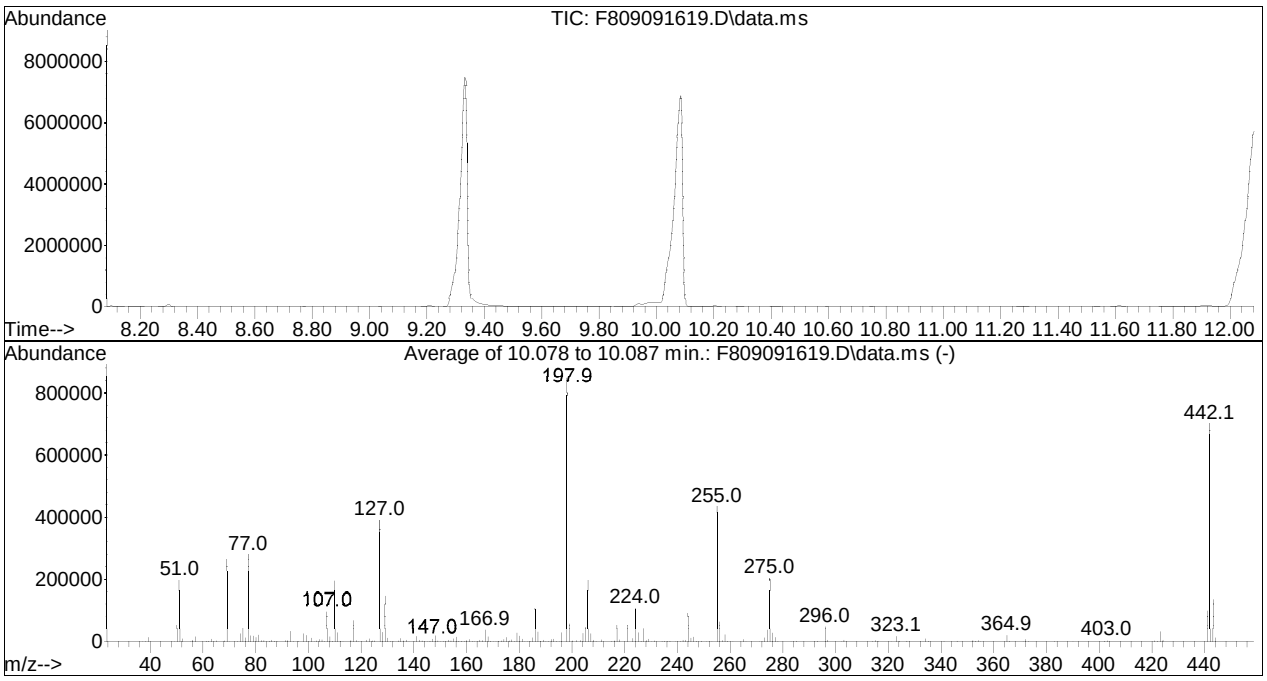
Continuing Calibration
DFTPP Tune

DFTPP

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091619.D
Acq On : 9 Sep 2016 8:46 pm
Operator : BNA8:ML
Sample : WG930519-5
Misc : WG930519,MSAK38
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\DFTPPBNA8.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Apr 30 16:06:20 2015



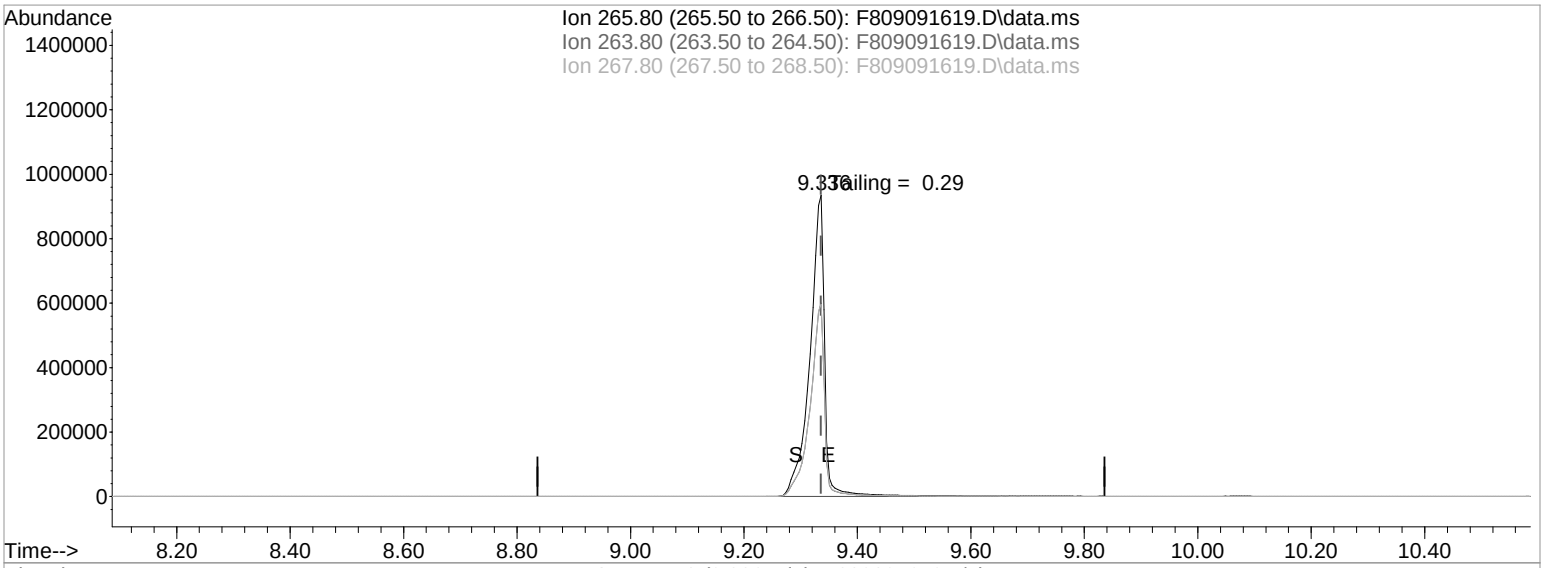
Spectrum Information: Average of 10.078 to 10.087 min.

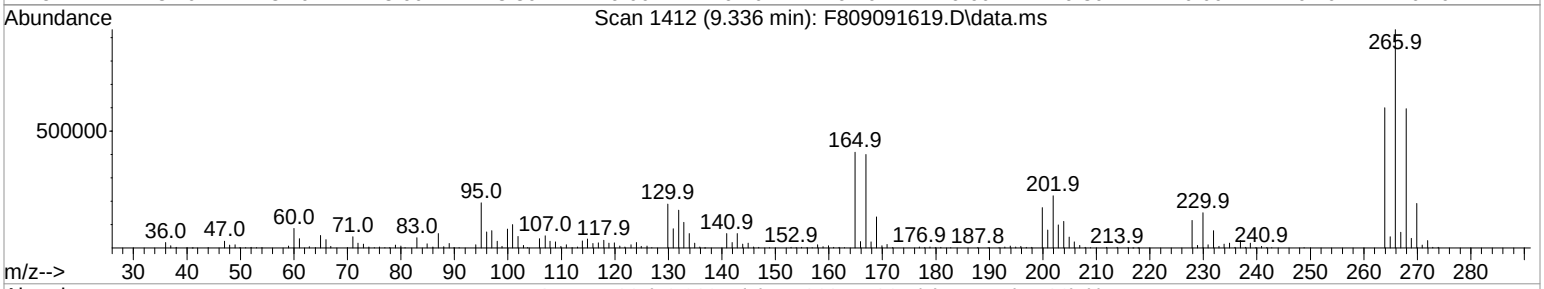
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	23.1	196616	PASS
68	69	0.00	2	1.7	4548	PASS
70	69	0.00	2	0.5	1285	PASS
127	198	10	80	45.8	389398	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	849413	PASS
199	198	5	9	6.7	56539	PASS
275	198	10	60	23.9	203331	PASS
365	198	1	100	2.3	19341	PASS
441	442	0.01	24	14.2	99803	PASS
442	198	50	100	82.5	700406	PASS
443	442	15	24	19.3	134970	PASS

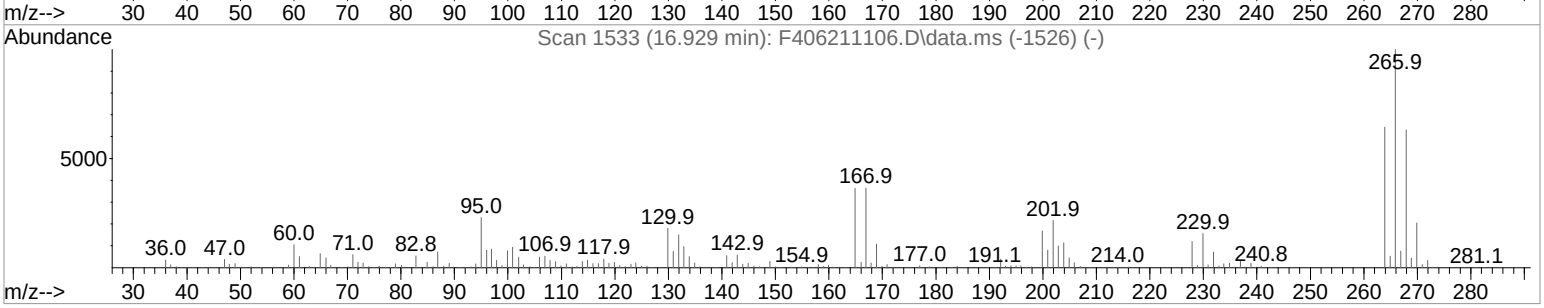
Quantitation Report (Qedit)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091619.D
Acq On : 9 Sep 2016 8:46 pm
Operator : BNA8:ML
Sample : WG930519-6
Misc : WG930519,MSAK38
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 12 14:15:22 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\DFTPPBNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:48:20 2016
Response via : Initial Calibration







CHROMtools™ [WG930519-6]

(1) Pentachlorophenol (MC)

9.336min (+0.000) 32.22 ug/mL

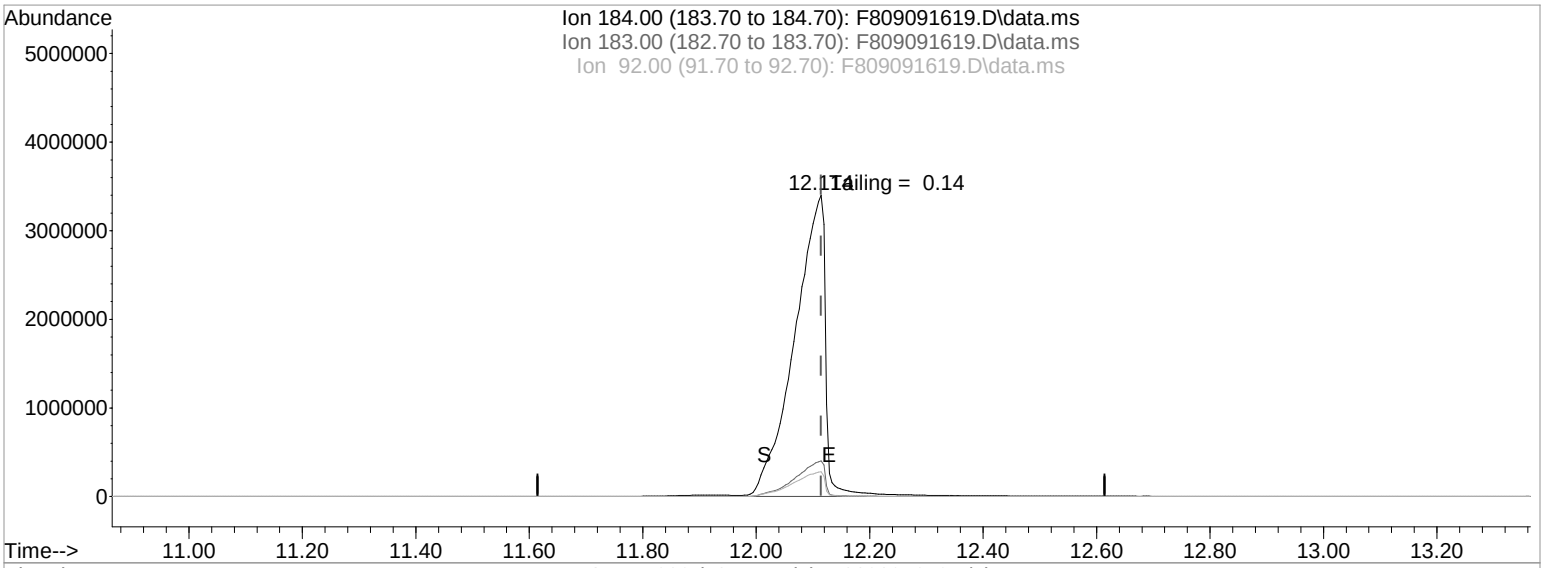
response 1686445 ~2 x >CAL (25)

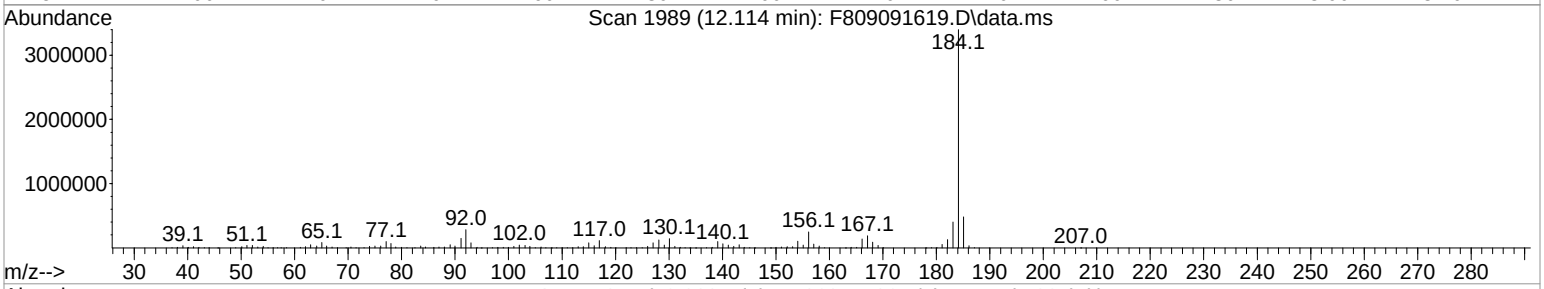
Ion	Exp%	Act%
265.80	100	100
263.80	63.50	62.77
267.80	64.00	63.37
0.00	0.00	0.00

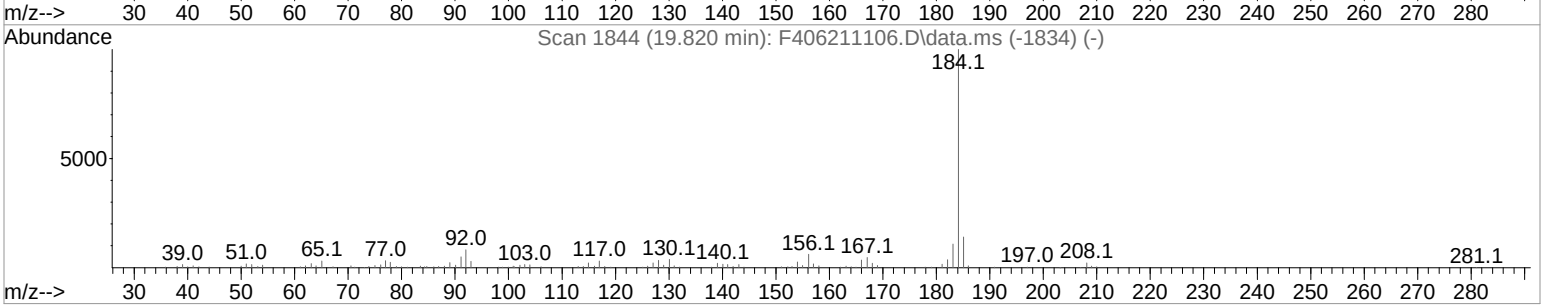
Quantitation Report (Qedit)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091619.D
Acq On : 9 Sep 2016 8:46 pm
Operator : BNA8:ML
Sample : WG930519-6
Misc : WG930519,MSAK38
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 12 14:15:22 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\DFTPPBNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:48:20 2016
Response via : Initial Calibration







CHROMtools™ [WG930519-6]

(3) Benzidine (T)

12.114min (+0.000) 155.78 ug/mL

response 12675207 ~7 x >CAL (25)

Ion	Exp%	Act%
184.00	100	100
183.00	11.70	11.47
92.00	8.20	8.52
0.00	0.00	0.00

Continuing Calibration

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091620.D
Acq On : 9 Sep 2016 9:16 pm
Operator : BNA8:ML
Sample : WG930519-7
Misc : WG930519,MSAK74,ICAL12858
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 14:24:04 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
2	T	N-Nitrosodimethylamine	0.601	0.596	0.8	103	0.00
3	t	Pyridine	1.172	1.116	4.8	103	0.00
4	S	2-Fluorophenol	1.201	1.199	0.2	106	0.00
5	T	Benzaldehyde	0.938	0.000	100.0#	0#	-4.51#
6	T	Aniline	1.765	1.715	2.8	104	0.00
7	T	bis(2-Chloroethyl)ether	0.749	0.713	4.8	103	0.00
8	S	Phenol-d5	1.455	1.432	1.6	104	0.00
9	MC	Phenol	1.491	1.464	1.8#	105	0.00
10	M	2-Chlorophenol	1.351	1.345	0.4	106	0.00
11	T	1,3-Dichlorobenzene	1.491	1.495	-0.3	107	0.00
12	MC	1,4-Dichlorobenzene	1.483	1.473	0.7#	107	0.00
13	T	1,2-Dichlorobenzene	1.409	1.403	0.4	106	0.00
14	T	Benzyl alcohol	0.803	0.800	0.4	104	0.00
15	T	bis(2-chloroisopropyl)ether	1.040	0.979	5.9	101	0.00
16	T	2-Methylphenol	1.050	1.039	1.0	105	0.00
17	T	Acetophenone	1.604	0.000	100.0#	0#	-5.23#
18	T	Hexachloroethane	0.542	0.539	0.6	105	0.00
19	MP	N-Nitroso-di-n-propylamine	0.733	0.710	3.1	103	0.00
20	T	4-Methylphenol	1.134	1.087	4.1	104	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	106	0.00
22	S	Nitrobenzene-d5	0.292	0.287	1.7	103	0.00
23	T	Nitrobenzene	0.290	0.283	2.4	103	0.00
24	T	Isophorone	0.467	0.465	0.4	104	0.00
25	TC	2-Nitrophenol	0.190	0.193	-1.6#	105	0.00
26	T	2,4-Dimethylphenol	0.302	0.277	8.3	99	0.00
27	T	Benzoic acid	* 10.000	9.244	7.6	102	0.00
28	T	bis(2-Chloroethoxy)methane	0.338	0.327	3.3	104	0.00
29	TC	2,4-Dichlorophenol	0.276	0.278	-0.7#	105	0.00
30	M	1,2,4-Trichlorobenzene	0.299	0.299	0.0	107	0.00
31	T	Naphthalene	0.961	0.940	2.2	105	0.00
32	T	2-Chloroaniline	0.485	0.485	0.0	106	0.00
33	T	4-Chloroaniline	0.414	0.409	1.2	104	0.00
34	TC	Hexachlorobutadiene	0.152	0.151	0.7#	106	0.00
35	T	Caprolactam	0.089	0.000	100.0#	0#	-6.43#
36	MC	4-Chloro-3-methylphenol	0.266	0.265	0.4#	105	0.00
37	T	2-Methylnaphthalene	0.652	0.648	0.6	105	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091620.D
Acq On : 9 Sep 2016 9:16 pm
Operator : BNA8:ML
Sample : WG930519-7
Misc : WG930519,MSAK74,ICAL12858
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 14:24:04 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00
39	T	1,2,4,5-Tetrachlorobenzene	0.521	0.520	0.2	106	0.00
40	TP	Hexachlorocyclopentadiene	* 10.000	9.692	3.1	107	0.00
41	TC	2,4,6-Trichlorophenol	0.375	0.371	1.1#	106	0.00
42	T	2,4,5-Trichlorophenol	0.334	0.353	-5.7	110	0.00
43	S	2-Fluorobiphenyl	1.262	1.245	1.3	106	0.00
44	T	Biphenyl	1.443	0.000	100.0#	0#	-7.17#
45	T	2-Chloronaphthalene	1.129	1.118	1.0	106	0.00
46	T	2-Nitroaniline	0.261	0.258	1.1	106	0.00
47	T	Acenaphthylene	1.867	1.841	1.4	105	0.00
48	T	Dimethylphthalate	1.214	1.205	0.7	108	0.00
49	T	2,6-Dinitrotoluene	0.282	0.289	-2.5	107	0.00
50	MC	Acenaphthene	1.136	1.109	2.4#	106	0.00
51	T	3-Nitroaniline	0.323	0.327	-1.2	107	0.00
52	TP	2,4-Dinitrophenol	* 10.000	9.119	8.8	100	0.00
53	T	Dibenzofuran	1.483	1.465	1.2	108	0.00
54		2,3,4,6-Tetrachlorophenol	0.225	0.247	-9.8	111	0.00
55	M	2,4-Dinitrotoluene	0.362	0.387	-6.9	107	0.00
56	MP	4-Nitrophenol	0.122	0.119	2.5	93	0.00
57	T	Fluorene	1.221	1.208	1.1	108	0.00
58	T	4-Chlorophenyl-phenylether	0.547	0.538	1.6	108	0.00
59	T	Diethylphthalate	1.241	1.241	0.0	106	0.00
60	T	4-Nitroaniline	0.333	0.337	-1.2	104	0.00
61	I	Phenanthrene-d10	1.000	1.000	0.0	107	0.00
62	T	4,6-Dinitro-2-methylphenol	* 10.000	9.917	0.8	110	0.00
63	T	Azobenzene	0.203	0.203	0.0	108	0.00
64	TC	n-Nitrosodiphenylamine	0.531	0.534	-0.6#	109	0.00
65	S	2,4,6-Tribromophenol	0.074	0.080	-8.1	111	0.00
66	T	4-Bromophenyl-phenylether	0.186	0.185	0.5	107	0.00
67	T	Hexachlorobenzene	0.194	0.194	0.0	109	0.00
68	T	Atrazine	0.205	0.000	100.0#	0#	-9.20#
69	MC	Pentachlorophenol	* 10.000	9.660	3.4#	116	0.00
70	T	Pentachloronitrobenzene	0.077	0.083	-7.8	108	0.00
71	T	Phenanthrene	1.087	1.072	1.4	108	0.00
72	T	Anthracene	1.074	1.069	0.5	107	0.00
73	T	Carbazole	1.031	1.043	-1.2	106	0.00
74	T	Di-n-butylphthalate	1.247	1.253	-0.5	105	0.00
75	TC	Fluoranthene	1.124	1.119	0.4#	104	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091620.D
Acq On : 9 Sep 2016 9:16 pm
Operator : BNA8:ML
Sample : WG930519-7
Misc : WG930519,MSAK74,ICAL12858
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 14:24:04 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
76	I	Chrysene-d12	1.000	1.000	0.0	106	0.00
77	T	Benzidine	0.826	0.000	100.0#	0#	-12.06#
78	M	Pyrene	1.248	1.256	-0.6	107	0.00
79	S	Terphenyl-d14	0.782	0.792	-1.3	108	0.00
80	T	Butylbenzylphthalate	0.612	0.642	-4.9	105	0.00
81	T	3,3'-Dichlorobenzidine	0.410	0.000	100.0#	0#	-14.93#
82	T	Benz[a]anthracene	1.183	1.190	-0.6	106	0.00
83	T	Chrysene	1.098	1.109	-1.0	107	0.00
84	T	bis(2-Ethylhexyl)phthalate	0.806	0.857	-6.3	105	0.00
85	I	Perylene-d12	1.000	1.000	0.0	113	0.00
86	TC	Di-n-octylphthalate	1.588	1.614	-1.6#	105	0.00
87	T	Benzo[b]fluoranthene	1.221	1.156	5.3	105	0.00
88	T	Benzo[k]fluoranthene	1.116	1.126	-0.9	106	0.00
89	TC	Benzo[a]pyrene	1.150	1.144	0.5#	108	0.00
90	T	Indeno[1,2,3-cd]pyrene	1.000	0.987	1.3	108	0.00
91	T	Dibenz[a,h]anthracene	1.008	1.040	-3.2	108	0.00
92	T	Benzo[g,h,i]perylene	1.082	1.079	0.3	108	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 13

Mass Discrimination (Concentration)	Ratio	Range Limits
Benzo[g,h,i]perylene to Phenanthrene	1.01	0.70 - 1.30

Mass Discrimination (Response)	Ratio	Range Limits
Benzo[g,h,i]perylene to Phenanthrene	0.88	0.70 - 2.00

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091620.D
Acq On : 9 Sep 2016 9:16 pm
Operator : BNA8:ML
Sample : WG930519-7
Misc : WG930519,MSAK74,ICAL12858
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 14:24:04 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	231449	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	872325	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	473467	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	784761	5.000	ug/mL	0.00
76) Chrysene-d12	14.922	240	724050	5.000	ug/mL	0.00
85) Perylene-d12	17.999	264	685355	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.827	112	555203	9.988	ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 49.94%			
8) Phenol-d5	4.549	99	663026	9.846	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 49.23%			
22) Nitrobenzene-d5	5.373	82	499880	9.820	ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 49.10%			
43) 2-Fluorobiphenyl	7.077	172	1178763	9.867	ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 49.34%			
65) 2,4,6-Tribromophenol	8.642	330	125147	10.842	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 54.21%			
79) Terphenyl-d14	12.577	244	1147573	10.132	ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 50.66%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.946	74	276041	9.930	ug/mL	94
3) Pyridine	2.960	79	516376	9.519	ug/mL	94
5) Benzaldehyde	0.000		0	N.D.	d	
6) Aniline	4.598	93	793798	9.716	ug/ml	99
7) bis(2-Chloroethyl)ether	4.641	63	330169	9.522	ug/mL	97
9) Phenol	4.559	94	677646	9.820	ug/mL#	90
10) 2-Chlorophenol	4.699	128	622420	9.949	ug/mL	100
11) 1,3-Dichlorobenzene	4.829	146	692002	10.027	ug/mL	100
12) 1,4-Dichlorobenzene	4.891	146	681815	9.931	ug/mL	99
13) 1,2-Dichlorobenzene	5.026	146	649441	9.956	ug/mL	99
14) Benzyl alcohol	4.992	108	370224	9.955	ug/mL	100
15) bis(2-chloroisopropyl)eth	5.108	45	453228	9.416	ug/mL#	64
16) 2-Methylphenol	5.084	108	480829M4	9.896	ug/mL	
17) Acetophenone	0.000		0	N.D.	d	
18) Hexachloroethane	5.330	117	249289	9.944	ug/mL	91
19) N-Nitroso-di-n-propylamin	5.233	70	328500	9.682	ug/mL	93
20) 4-Methylphenol	5.224	108	503005	9.582	ug/mL	98
23) Nitrobenzene	5.392	77	494135	9.766	ug/mL	95

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091620.D
Acq On : 9 Sep 2016 9:16 pm
Operator : BNA8:ML
Sample : WG930519-7
Misc : WG930519,MSAK74,ICAL12858
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 14:24:04 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Isophorone	5.614	82	810657	9.957	ug/mL	96
25) 2-Nitrophenol	5.686	139	337203	10.194	ug/mL#	88
26) 2,4-Dimethylphenol	5.715	107	484067	9.202	ug/mL	99
27) Benzoic acid	5.811	105	85500	9.244	ug/mL#	87
28) bis(2-Chloroethoxy)methan	5.801	93	570927	9.680	ug/mL	100
29) 2,4-Dichlorophenol	5.907	162	484776	10.073	ug/mL	99
30) 1,2,4-Trichlorobenzene	5.984	180	521021	9.972	ug/mL	99
31) Naphthalene	6.061	128	1640781	9.788	ug/mL	99
32) 2-Chloroaniline	5.652	127	845570	10.003	ug/ml	99
33) 4-Chloroaniline	6.114	127	713656M4	9.888	ug/mL	
34) Hexachlorobutadiene	6.172	225	264238	9.947	ug/mL	99
35) Caprolactam	0.000		0	N.D.	d	
36) 4-Chloro-3-methylphenol	6.572	107	462178	9.969	ug/mL	98
37) 2-Methylnaphthalene	6.726	142	1130398	9.940	ug/mL	99
39) 1,2,4,5-Tetrachlorobenzen	6.885	216	492491	9.982	ug/mL	100
40) Hexachlorocyclopentadiene	6.870	237	213367	9.692	ug/mL	96
41) 2,4,6-Trichlorophenol	6.996	196	351640M6	9.892	ug/mL	
42) 2,4,5-Trichlorophenol	7.029	196	334291M4	10.582	ug/mL	
44) Biphenyl	0.000		0	N.D.	d	
45) 2-Chloronaphthalene	7.198	162	1058690	9.903	ug/mL	99
46) 2-Nitroaniline	7.299	65	244270	9.883	ug/mL	98
47) Acenaphthylene	7.607	152	1743497	9.863	ug/mL	99
48) Dimethylphthalate	7.472	163	1140837	9.920	ug/mL	100
49) 2,6-Dinitrotoluene	7.535	165	274025	10.258	ug/mL	91
50) Acenaphthene	7.785	153	1050358	9.766	ug/mL	98
51) 3-Nitroaniline	7.713	138	309418	10.123	ug/mL	99
52) 2,4-Dinitrophenol	7.814	184	112795	9.119	ug/mL#	61
53) Dibenzofuran	7.968	168	1387290	9.880	ug/mL	99
54) 2,3,4,6-Tetrachlorophenol	8.098	232	233662	10.969	ug/mL	96
55) 2,4-Dinitrotoluene	7.954	165	366263	10.689	ug/mL	91
56) 4-Nitrophenol	7.891	109	112964	9.757	ug/mL	94
57) Fluorene	8.354	166	1143491	9.886	ug/mL	100
58) 4-Chlorophenyl-phenylethe	8.349	204	509399	9.837	ug/mL	99
59) Diethylphthalate	8.219	149	1175586	10.001	ug/mL	99
60) 4-Nitroaniline	8.387	138	319518	10.120	ug/mL	96
62) 4,6-Dinitro-2-methylpheno	8.411	198	178532	9.917	ug/mL#	92
63) Azobenzene	8.541	182	319110	10.023	ug/mL	75
64) n-Nitrosodiphenylamine	8.493	169	837409	10.041	ug/mL	99
66) 4-Bromophenyl-phenylether	8.960	248	290416	9.971	ug/mL	99
67) Hexachlorobenzene	9.037	284	305103	10.020	ug/mL	97
68) Atrazine	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091620.D
Acq On : 9 Sep 2016 9:16 pm
Operator : BNA8:ML
Sample : WG930519-7
Misc : WG930519,MSAK74,ICAL12858
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 14:24:04 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
69) Pentachlorophenol	9.317	266	160766M4	9.660 ug/mL	
70) Pentachloronitrobenzene	9.331	237	129664	10.690 ug/ml	90
71) Phenanthrene	9.634	178	1682907	9.865 ug/mL	99
72) Anthracene	9.711	178	1677986M4	9.957 ug/mL	
73) Carbazole	9.976	167	1636832	10.113 ug/mL	99
74) Di-n-butylphthalate	10.597	149	1966359	10.044 ug/mL	99
75) Fluoranthene	11.729	202	1756719M4	9.959 ug/mL	
77) Benzidine	0.000		0	N.D. d	
78) Pyrene	12.182	202	1818726M4	10.064 ug/mL	
80) Butylbenzylphthalate	13.766	149	929888	10.487 ug/mL	95
81) 3,3'-Dichlorobenzidine	0.000		0	N.D.	
82) Benz[a]anthracene	14.902	228	1723531M6	10.060 ug/mL	
83) Chrysene	14.989	228	1606086M4	10.097 ug/mL	
84) bis(2-Ethylhexyl)phthalat	15.230	149	1240968	10.637 ug/mL	99
86) Di-n-octylphthalate	16.727	149	2212501M4	10.162 ug/mL	
87) Benzo[b]fluoranthene	17.271	252	1583999M6	9.466 ug/mL	
88) Benzo[k]fluoranthene	17.329	252	1543179M6	10.088 ug/mL	
89) Benzo[a]pyrene	17.902	252	1568041M4	9.947 ug/mL	
90) Indeno[1,2,3-cd]pyrene	19.824	276	1352809	9.868 ug/mL	99
91) Dibenz[a,h]anthracene	19.872	278	1425215	10.318 ug/mL	96
92) Benzo[g,h,i]perylene	20.271	276	1479192	9.976 ug/mL	97

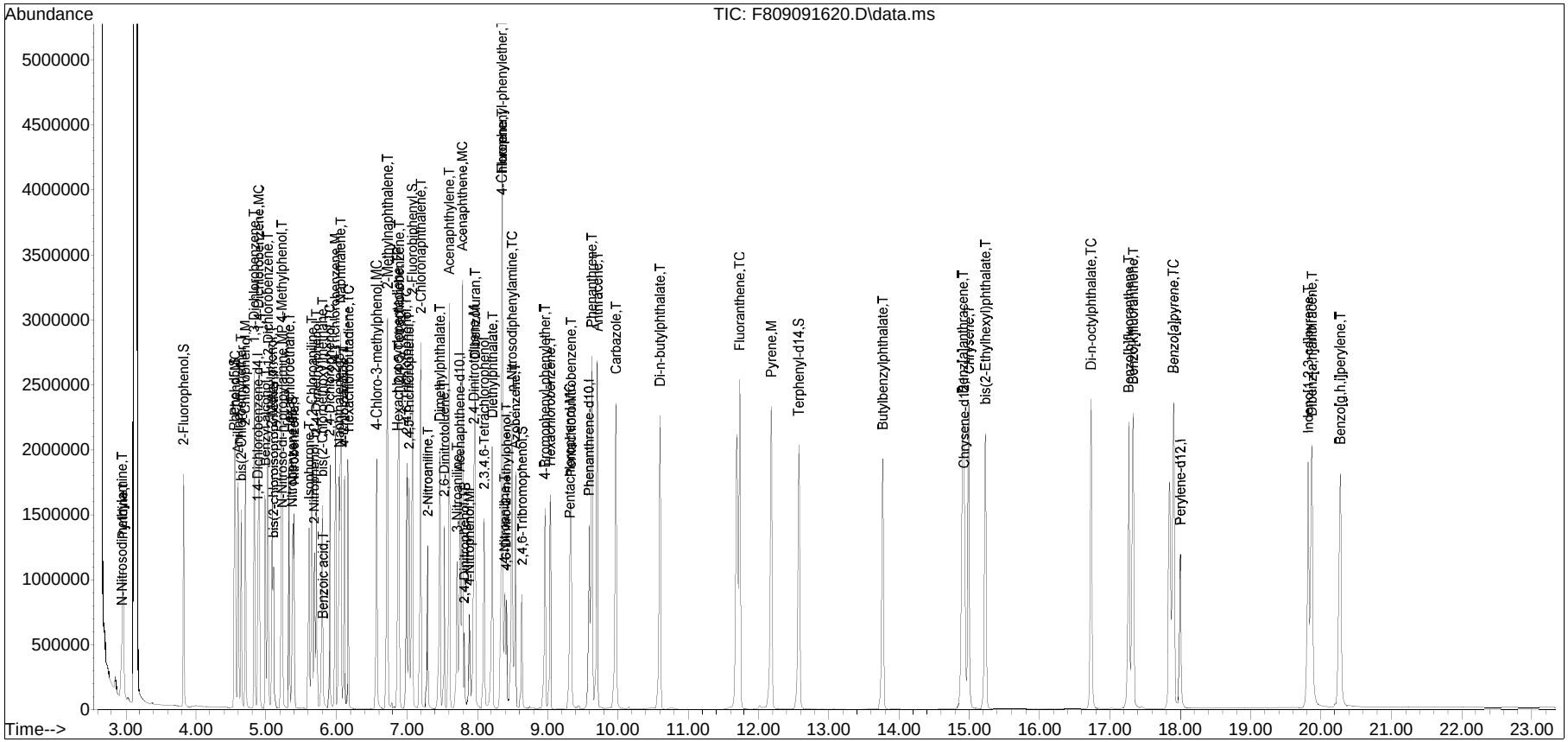
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091620.D
Acq On : 9 Sep 2016 9:16 pm
Operator : BNA8:ML
Sample : WG930519-7
Misc : WG930519,MSAK74,ICAL12858
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 14:24:04 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed



Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091621.D
Acq On : 9 Sep 2016 9:47 pm
Operator : BNA8:ML
Sample : WG930519-8
Misc : WG930519,MSAK58,ICAL12858
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 14:21:09 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	120	0.00
2	T	N-Nitrosodimethylamine	0.601	0.000	100.0#	0#	-2.95#
3	t	Pyridine	1.172	0.000	100.0#	0#	-2.96#
4	S	2-Fluorophenol	1.201	0.000	100.0#	0#	-3.83#
5	T	Benzaldehyde	0.938	0.949	-1.2	98	0.00
6	T	Aniline	1.765	0.000	100.0#	0#	-4.60#
7	T	bis(2-Chloroethyl)ether	0.749	0.000	100.0#	0#	-4.64#
8	S	Phenol-d5	1.455	0.000	100.0#	0#	-4.55#
9	MC	Phenol	1.491	0.000	100.0#	0#	-4.56#
10	M	2-Chlorophenol	1.351	0.000	100.0#	0#	-4.70#
11	T	1,3-Dichlorobenzene	1.491	0.000	100.0#	0#	-4.83#
12	MC	1,4-Dichlorobenzene	1.483	0.000	100.0#	0#	-4.90#
13	T	1,2-Dichlorobenzene	1.409	0.000	100.0#	0#	-5.03#
14	T	Benzyl alcohol	0.803	0.000	100.0#	0#	-5.00#
15	T	bis(2-chloroisopropyl)ether	1.040	0.000	100.0#	0#	-5.11#
16	T	2-Methylphenol	1.050	0.000	100.0#	0#	-5.09#
17	T	Acetophenone	1.604	1.656	-3.2	100	0.00
18	T	Hexachloroethane	0.542	0.000	100.0#	0#	-5.33#
19	MP	N-Nitroso-di-n-propylamine	0.733	0.000	100.0#	0#	-5.23#
20	T	4-Methylphenol	1.134	0.000	100.0#	0#	-5.23#
21	I	Naphthalene-d8	1.000	1.000	0.0	120	0.00
22	S	Nitrobenzene-d5	0.292	0.000	100.0#	0#	-5.38#
23	T	Nitrobenzene	0.290	0.000	100.0#	0#	-5.40#
24	T	Isophorone	0.467	0.000	100.0#	0#	-5.61#
25	TC	2-Nitrophenol	0.190	0.000	100.0#	0#	-5.69#
26	T	2,4-Dimethylphenol	0.302	0.000	100.0#	0#	-5.71#
27	T	Benzoic acid	* 10.000	0.000	100.0#	0	-5.81#
28	T	bis(2-Chloroethoxy)methane	0.338	0.000	100.0#	0#	-5.81#
29	TC	2,4-Dichlorophenol	0.276	0.000	100.0#	0#	-5.91#
30	M	1,2,4-Trichlorobenzene	0.299	0.000	100.0#	0#	-5.99#
31	T	Naphthalene	0.961	0.000	100.0#	0#	-6.07#
32	T	2-Chloroaniline	0.485	0.000	100.0#	0#	-5.65#
33	T	4-Chloroaniline	0.414	0.000	100.0#	0#	-6.11#
34	TC	Hexachlorobutadiene	0.152	0.000	100.0#	0#	-6.17#
35	T	Caprolactam	0.089	0.099	-11.2	99	0.00
36	MC	4-Chloro-3-methylphenol	0.266	0.000	100.0#	0#	-6.58#
37	T	2-Methylnaphthalene	0.652	0.000	100.0#	0#	-6.73#

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091621.D
Acq On : 9 Sep 2016 9:47 pm
Operator : BNA8:ML
Sample : WG930519-8
Misc : WG930519,MSAK58,ICAL12858
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 14:21:09 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	I	Acenaphthene-d10	1.000	1.000	0.0	117	0.00
39	T	1,2,4,5-Tetrachlorobenzene	0.521	0.000	100.0#	0#	-6.88#
40	TP	Hexachlorocyclopentadiene	* 10.000	0.000	100.0#	0	-6.88#
41	TC	2,4,6-Trichlorophenol	0.375	0.000	100.0#	0#	-7.00#
42	T	2,4,5-Trichlorophenol	0.334	0.000	100.0#	0#	-7.03#
43	S	2-Fluorobiphenyl	1.262	0.000	100.0#	0#	-7.08#
44	T	Biphenyl	1.443	1.464	-1.5	101	0.00
45	T	2-Chloronaphthalene	1.129	0.000	100.0#	0#	-7.20#
46	T	2-Nitroaniline	0.261	0.000	100.0#	0#	-7.30#
47	T	Acenaphthylene	1.867	0.000	100.0#	0#	-7.61#
48	T	Dimethylphthalate	1.214	0.000	100.0#	0#	-7.47#
49	T	2,6-Dinitrotoluene	0.282	0.000	100.0#	0#	-7.54#
50	MC	Acenaphthene	1.136	0.000	100.0#	0#	-7.79#
51	T	3-Nitroaniline	0.323	0.000	100.0#	0#	-7.71#
52	TP	2,4-Dinitrophenol	* 10.000	0.000	100.0#	0	-7.82#
53	T	Dibenzofuran	1.483	0.000	100.0#	0#	-7.97#
54		2,3,4,6-Tetrachlorophenol	0.225	0.000	100.0#	0#	-8.10#
55	M	2,4-Dinitrotoluene	0.362	0.000	100.0#	0#	-7.95#
56	MP	4-Nitrophenol	0.122	0.000	100.0#	0#	-7.89#
57	T	Fluorene	1.221	0.000	100.0#	0#	-8.35#
58	T	4-Chlorophenyl-phenylether	0.547	0.000	100.0#	0#	-8.35#
59	T	Diethylphthalate	1.241	0.000	100.0#	0#	-8.22#
60	T	4-Nitroaniline	0.333	0.000	100.0#	0#	-8.39#
61	I	Phenanthrene-d10	1.000	1.000	0.0	110	0.00
62	T	4,6-Dinitro-2-methylphenol	* 10.000	0.000	100.0#	0	-8.42#
63	T	Azobenzene	0.203	0.000	100.0#	0#	-8.54#
64	TC	n-Nitrosodiphenylamine	0.531	0.000	100.0#	0#	-8.50#
65	S	2,4,6-Tribromophenol	0.074	0.000	100.0#	0#	-8.65#
66	T	4-Bromophenyl-phenylether	0.186	0.000	100.0#	0#	-8.97#
67	T	Hexachlorobenzene	0.194	0.000	100.0#	0#	-9.04#
68	T	Atrazine	0.205	0.229	-11.7	102	0.00
69	MC	Pentachlorophenol	* 10.000	0.000	100.0#	0	-9.32#
70	T	Pentachloronitrobenzene	0.077	0.000	100.0#	0#	-9.34#
71	T	Phenanthrene	1.087	0.000	100.0#	0#	-9.64#
72	T	Anthracene	1.074	0.000	100.0#	0#	-9.72#
73	T	Carbazole	1.031	0.000	100.0#	0#	-9.98#
74	T	Di-n-butylphthalate	1.247	0.000	100.0#	0#	-10.60#
75	TC	Fluoranthene	1.124	0.000	100.0#	0#	-11.73#

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091621.D
Acq On : 9 Sep 2016 9:47 pm
Operator : BNA8:ML
Sample : WG930519-8
Misc : WG930519,MSAK58,ICAL12858
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 14:21:09 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
76	I	Chrysene-d12	1.000	1.000	0.0	114	0.00
77	T	Benzidine	0.826	0.955	-15.6	110	0.00
78	M	Pyrene	1.248	0.000	100.0#	0#	-12.19#
79	S	Terphenyl-d14	0.782	0.000	100.0#	0#	-12.58#
80	T	Butylbenzylphthalate	0.612	0.000	100.0#	0#	-13.77#
81	T	3,3'-Dichlorobenzidine	0.410	0.463	-12.9	105	0.00
82	T	Benz[a]anthracene	1.183	0.000	100.0#	0#	-14.91#
83	T	Chrysene	1.098	0.000	100.0#	0#	-14.99#
84	T	bis(2-Ethylhexyl)phthalate	0.806	0.000	100.0#	0#	-15.23#
85	I	Perylene-d12	1.000	1.000	0.0	115	0.00
86	TC	Di-n-octylphthalate	1.588	0.000	100.0#	0#	-16.73#
87	T	Benzo[b]fluoranthene	1.221	0.000	100.0#	0#	-17.28#
88	T	Benzo[k]fluoranthene	1.116	0.000	100.0#	0#	-17.33#
89	TC	Benzo[a]pyrene	1.150	0.000	100.0#	0#	-17.90#
90	T	Indeno[1,2,3-cd]pyrene	1.000	0.000	100.0#	0#	-19.83#
91	T	Dibenz[a,h]anthracene	1.008	0.000	100.0#	0#	-19.88#
92	T	Benzo[g,h,i]perylene	1.082	0.000	100.0#	0#	-20.28#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 13

Mass Discrimination (Concentration)	Ratio	Range Limits
Benzo[g,h,i]perylene to Phenanthrene	0.000	0.70 - 1.30

Mass Discrimination (Response)	Ratio	Range Limits
Benzo[g,h,i]perylene to Phenanthrene	0.000	0.70 - 2.00

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091621.D
Acq On : 9 Sep 2016 9:47 pm
Operator : BNA8:ML
Sample : WG930519-8
Misc : WG930519,MSAK58,ICAL12858
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 14:21:09 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	259539	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	985874	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	521450	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.591	188	811724	5.000	ug/mL	0.00
76) Chrysene-d12	14.912	240	778983	5.000	ug/mL	0.00
85) Perylene-d12	17.994	264	698221	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0	0.000	ug/mL	
Spiked Amount 20.000	Range 21 - 100		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 94		Recovery = 0.00%#			
22) Nitrobenzene-d5	0.000	82	0	0.000	ug/mL	
Spiked Amount 20.000	Range 35 - 114		Recovery = 0.00%#			
43) 2-Fluorobiphenyl	0.000	172	0	0.000	ug/mL	
Spiked Amount 20.000	Range 43 - 116		Recovery = 0.00%#			
65) 2,4,6-Tribromophenol	0.000	330	0	0.000	ug/mL	
Spiked Amount 20.000	Range 10 - 123		Recovery = 0.00%#			
79) Terphenyl-d14	0.000	244	0	0.000	ug/mL	
Spiked Amount 20.000	Range 33 - 141		Recovery = 0.00%#			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
3) Pyridine	0.000		0	N.D.		
5) Benzaldehyde	4.511	77	492586	10.121	ug/ml	99
6) Aniline	0.000		0	N.D.		
7) bis(2-Chloroethyl)ether	0.000		0	N.D.		
9) Phenol	0.000		0	N.D.		
10) 2-Chlorophenol	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) Benzyl alcohol	0.000		0	N.D.		
15) bis(2-chloroisopropyl)eth	0.000		0	N.D.		
16) 2-Methylphenol	0.000		0	N.D.		
17) Acetophenone	5.229	105	859725	10.327	ug/ml	97
18) Hexachloroethane	0.000		0	N.D.		
19) N-Nitroso-di-n-propylamin	0.000		0	N.D.		
20) 4-Methylphenol	0.000		0	N.D.		
23) Nitrobenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091621.D
Acq On : 9 Sep 2016 9:47 pm
Operator : BNA8:ML
Sample : WG930519-8
Misc : WG930519,MSAK58,ICAL12858
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 14:21:09 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Isophorone	0.000		0	N.D.		
25) 2-Nitrophenol	0.000		0	N.D.		
26) 2,4-Dimethylphenol	0.000		0	N.D.		
27) Benzoic acid	0.000		0	N.D. d		
28) bis(2-Chloroethoxy)methan	0.000		0	N.D.		
29) 2,4-Dichlorophenol	0.000		0	N.D.		
30) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
31) Naphthalene	0.000		0	N.D.		
32) 2-Chloroaniline	0.000		0	N.D.		
33) 4-Chloroaniline	0.000		0	N.D.		
34) Hexachlorobutadiene	0.000		0	N.D.		
35) Caprolactam	6.428	113	194244	11.029	ug/ml	99
36) 4-Chloro-3-methylphenol	0.000		0	N.D.		
37) 2-Methylnaphthalene	0.000		0	N.D.		
39) 1,2,4,5-Tetrachlorobenzen	0.000		0	N.D.		
40) Hexachlorocyclopentadiene	0.000		0	N.D.		
41) 2,4,6-Trichlorophenol	0.000		0	N.D.		
42) 2,4,5-Trichlorophenol	0.000		0	N.D.		
44) Biphenyl	7.174	154	1526753	10.145	ug/ml	100
45) 2-Chloronaphthalene	0.000		0	N.D.		
46) 2-Nitroaniline	0.000		0	N.D. d		
47) Acenaphthylene	0.000		0	N.D.		
48) Dimethylphthalate	0.000		0	N.D.		
49) 2,6-Dinitrotoluene	0.000		0	N.D.		
50) Acenaphthene	0.000		0	N.D.		
51) 3-Nitroaniline	0.000		0	N.D. d		
52) 2,4-Dinitrophenol	0.000		0	N.D.		
53) Dibenzofuran	0.000		0	N.D.		
54) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
55) 2,4-Dinitrotoluene	0.000		0	N.D.		
56) 4-Nitrophenol	0.000		0	N.D. d		
57) Fluorene	0.000		0	N.D.		
58) 4-Chlorophenyl-phenylethe	0.000		0	N.D.		
59) Diethylphthalate	0.000		0	N.D.		
60) 4-Nitroaniline	0.000		0	N.D.		
62) 4,6-Dinitro-2-methylpheno	0.000		0	N.D.		
63) Azobenzene	0.000		0	N.D.		
64) n-Nitrosodiphenylamine	0.000		0	N.D.		
66) 4-Bromophenyl-phenylether	0.000		0	N.D.		
67) Hexachlorobenzene	0.000		0	N.D.		
68) Atrazine	9.192	200	371360	11.159	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091621.D
Acq On : 9 Sep 2016 9:47 pm
Operator : BNA8:ML
Sample : WG930519-8
Misc : WG930519,MSAK58,ICAL12858
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 14:21:09 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Pentachlorophenol	0.000		0	N.D.		
70) Pentachloronitrobenzene	0.000		0	N.D.		
71) Phenanthrene	0.000		0	N.D.		
72) Anthracene	0.000		0	N.D.		
73) Carbazole	0.000		0	N.D.		
74) Di-n-butylphthalate	0.000		0	N.D.		
75) Fluoranthene	0.000		0	N.D.		
77) Benzidine	12.057	184	1487487	11.564	ug/mL	100
78) Pyrene	0.000		0	N.D.		
80) Butylbenzylphthalate	0.000		0	N.D.		
81) 3,3'-Dichlorobenzidine	14.931	252	721609	11.310	ug/mL	98
82) Benz[a]anthracene	0.000		0	N.D. d		
83) Chrysene	0.000		0	N.D. d		
84) bis(2-Ethylhexyl)phthalat	0.000		0	N.D. d		
86) Di-n-octylphthalate	0.000		0	N.D.		
87) Benzo[b]fluoranthene	0.000		0	N.D.		
88) Benzo[k]fluoranthene	0.000		0	N.D.		
89) Benzo[a]pyrene	0.000		0	N.D. d		
90) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
91) Dibenz[a,h]anthracene	0.000		0	N.D.		
92) Benzo[g,h,i]perylene	0.000		0	N.D.		

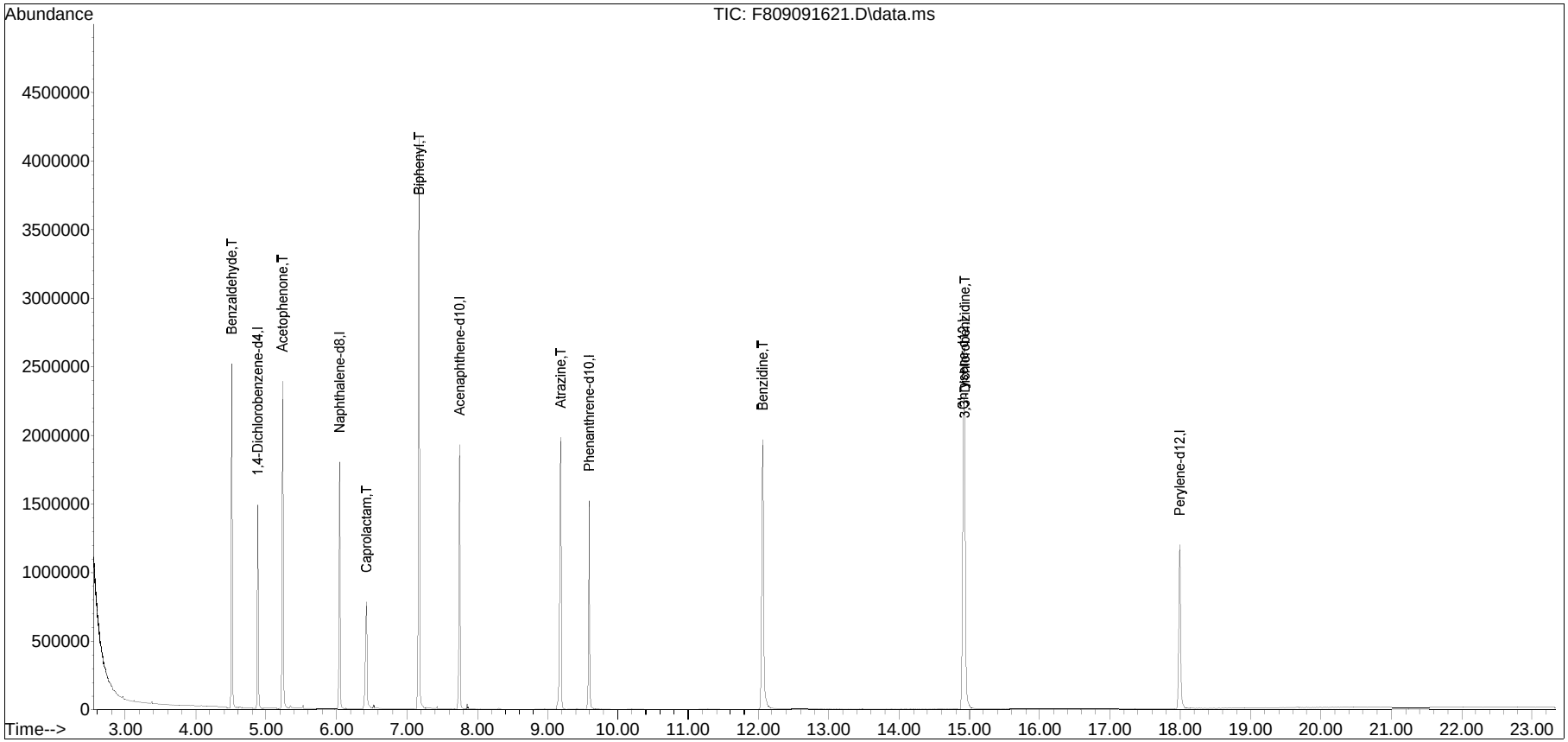
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091621.D
Acq On : 9 Sep 2016 9:47 pm
Operator : BNA8:ML
Sample : WG930519-8
Misc : WG930519,MSAK58,ICAL12858
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 14:21:09 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed



Sample Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091622.D
Acq On : 9 Sep 2016 10:17 pm
Operator : BNA8:ML
Sample : L1625234-01
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 12 14:26:19 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	232671	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	878216	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	464148	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.591	188	753106M4	5.000	ug/mL	0.00
76) Chrysene-d12	14.912	240	698487	5.000	ug/mL	0.00
85) Perylene-d12	17.989	264	637546	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.832	112	691399	12.372	ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 61.86%			
8) Phenol-d5	4.545	99	921078	13.606	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 68.03%			
22) Nitrobenzene-d5	5.373	82	685949	13.385	ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 66.92%			
43) 2-Fluorobiphenyl	7.073	172	1700001	14.515	ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 72.58%			
65) 2,4,6-Tribromophenol	8.643	330	195773	17.674	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 88.37%			
79) Terphenyl-d14	12.586	244	2370850	21.699	ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 108.50%			

Target Compounds				Qvalue
9) Phenol	0.000	0	N.D.	
12) 1,4-Dichlorobenzene	0.000	0	N.D.	
13) 1,2-Dichlorobenzene	0.000	0	N.D.	
14) Benzyl alcohol	0.000	0	N.D.	
20) 4-Methylphenol	0.000	0	N.D.	
26) 2,4-Dimethylphenol	0.000	0	N.D.	
27) Benzoic acid	0.000	0	N.D.	
30) 1,2,4-Trichlorobenzene	0.000	0	N.D.	
31) Naphthalene	0.000	0	N.D.	d
37) 2-Methylnaphthalene	0.000	0	N.D.	
48) Dimethylphthalate	0.000	0	N.D.	
50) Acenaphthene	0.000	0	N.D.	
53) Dibenzofuran	0.000	0	N.D.	
57) Fluorene	0.000	0	N.D.	
64) n-Nitrosodiphenylamine	0.000	0	N.D.	d
67) Hexachlorobenzene	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091622.D
Acq On : 9 Sep 2016 10:17 pm
Operator : BNA8:ML
Sample : L1625234-01
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 12 14:26:19 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Pentachlorophenol	0.000		0		N.D.	
71) Phenanthrene	0.000		0		N.D.	d
72) Anthracene	0.000		0		N.D.	d
75) Fluoranthene	0.000		0		N.D.	
78) Pyrene	0.000		0		N.D.	
80) Butylbenzylphthalate	0.000		0		N.D.	d
82) Benz[a]anthracene	0.000		0		N.D.	d
83) Chrysene	0.000		0		N.D.	d
84) bis(2-Ethylhexyl)phthalat	0.000		0		N.D.	d
87) Benzo[b]fluoranthene	0.000		0		N.D.	
88) Benzo[k]fluoranthene	0.000		0		N.D.	
89) Benzo[a]pyrene	0.000		0		N.D.	d
90) Indeno[1,2,3-cd]pyrene	0.000		0		N.D.	
91) Dibenz[a,h]anthracene	0.000		0		N.D.	
92) Benzo[g,h,i]perylene	0.000		0		N.D.	

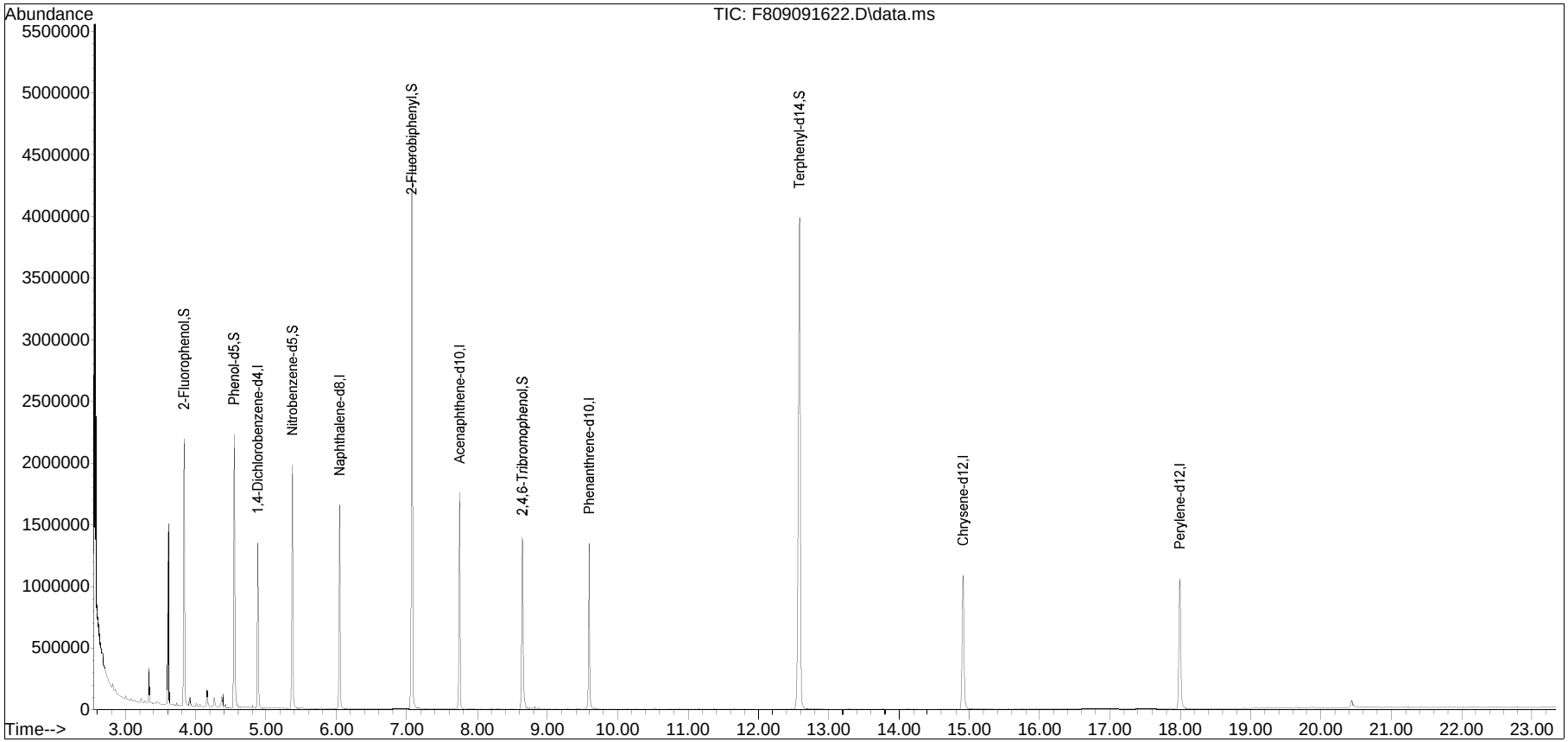
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091622.D
Acq On : 9 Sep 2016 10:17 pm
Operator : BNA8:ML
Sample : L1625234-01
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 12 14:26:19 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed



SV0908BNA8.M Mon Sep 12 14:42:06 2016

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091626.D
Acq On : 10 Sep 2016 12:19 am
Operator : BNA8:ML
Sample : L1625234-02
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 12 14:36:14 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.877	152	237732	5.000 ug/mL	0.00
21) Naphthalene-d8	6.042	136	889222	5.000 ug/mL	0.00
38) Acenaphthene-d10	7.747	164	468216	5.000 ug/mL	0.00
61) Phenanthrene-d10	9.591	188	778276M4	5.000 ug/mL	0.00
76) Chrysene-d12	14.912	240	723637	5.000 ug/mL	0.00
85) Perylene-d12	17.994	264	660778	5.000 ug/mL	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	3.832	112	706433	12.372 ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 61.86%		
8) Phenol-d5	4.545	99	1006454	14.551 ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 72.76%		
22) Nitrobenzene-d5	5.373	82	729171	14.053 ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 70.27%		
43) 2-Fluorobiphenyl	7.078	172	1797424	15.214 ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 76.07%		
65) 2,4,6-Tribromophenol	8.643	330	219878M1	19.208 ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 96.04%		
79) Terphenyl-d14	12.586	244	2295323	20.278 ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 101.39%		

Target Compounds			Qvalue
9) Phenol	0.000	0	N.D.
12) 1,4-Dichlorobenzene	0.000	0	N.D.
13) 1,2-Dichlorobenzene	0.000	0	N.D.
14) Benzyl alcohol	0.000	0	N.D. d
20) 4-Methylphenol	0.000	0	N.D.
26) 2,4-Dimethylphenol	0.000	0	N.D.
27) Benzoic acid	0.000	0	N.D.
30) 1,2,4-Trichlorobenzene	0.000	0	N.D.
31) Naphthalene	0.000	0	N.D. d
37) 2-Methylnaphthalene	0.000	0	N.D.
48) Dimethylphthalate	0.000	0	N.D.
50) Acenaphthene	0.000	0	N.D.
53) Dibenzofuran	0.000	0	N.D.
57) Fluorene	0.000	0	N.D.
64) n-Nitrosodiphenylamine	0.000	0	N.D. d

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091626.D
Acq On : 10 Sep 2016 12:19 am
Operator : BNA8:ML
Sample : L1625234-02
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 12 14:36:14 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) Hexachlorobenzene	0.000		0		N.D.	
69) Pentachlorophenol	0.000		0		N.D.	
71) Phenanthrene	0.000		0		N.D.	d
72) Anthracene	0.000		0		N.D.	d
75) Fluoranthene	0.000		0		N.D.	
78) Pyrene	0.000		0		N.D.	
80) Butylbenzylphthalate	0.000		0		N.D.	d
82) Benz[a]anthracene	0.000		0		N.D.	d
83) Chrysene	0.000		0		N.D.	d
84) bis(2-Ethylhexyl)phthalat	0.000		0		N.D.	d
87) Benzo[b]fluoranthene	0.000		0		N.D.	
88) Benzo[k]fluoranthene	0.000		0		N.D.	
89) Benzo[a]pyrene	0.000		0		N.D.	d
90) Indeno[1,2,3-cd]pyrene	0.000		0		N.D.	
91) Dibenz[a,h]anthracene	0.000		0		N.D.	
92) Benzo[g,h,i]perylene	0.000		0		N.D.	

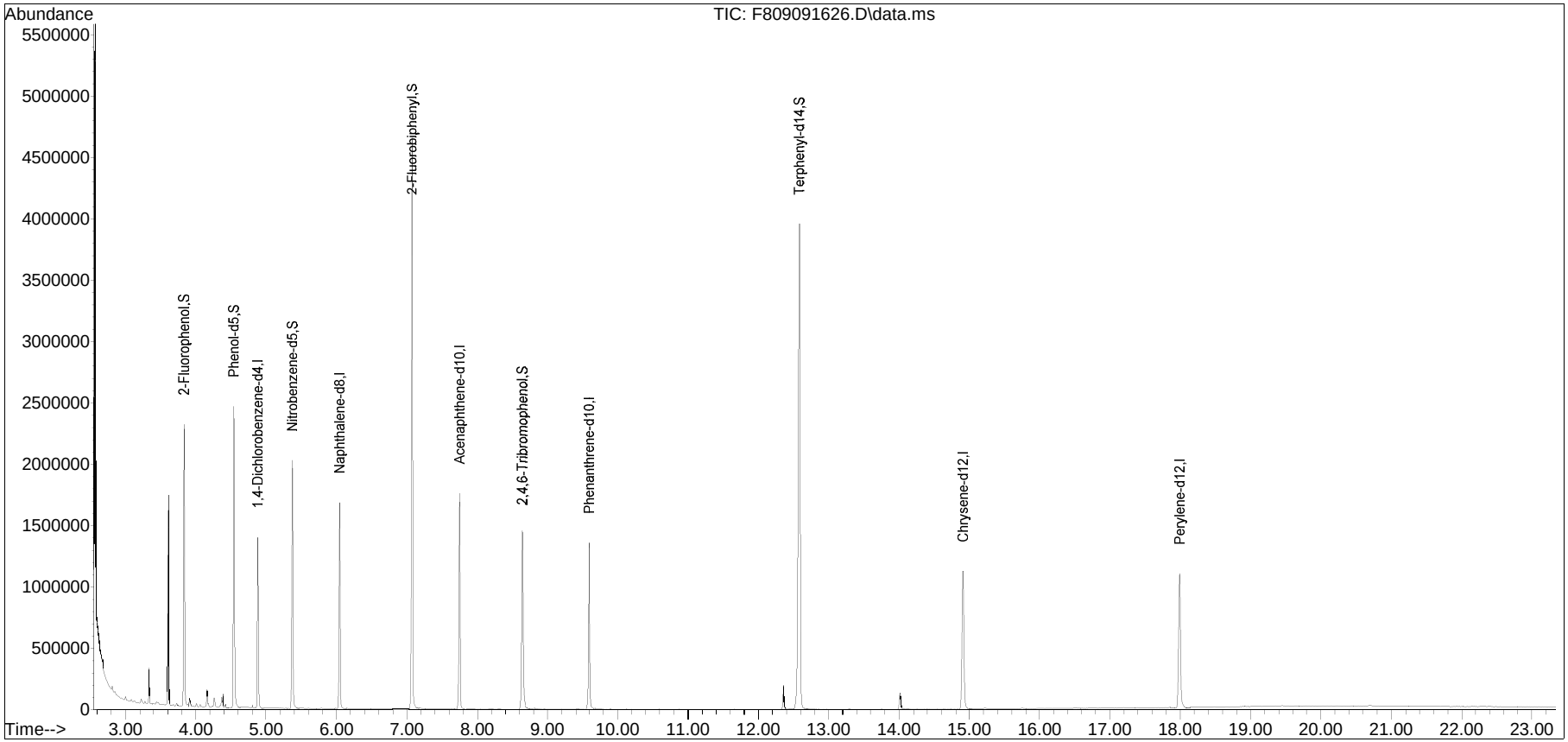
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091626.D
Acq On : 10 Sep 2016 12:19 am
Operator : BNA8:ML
Sample : L1625234-02
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 12 14:36:14 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed



SV0908BNA8.M Mon Sep 12 14:42:39 2016

Batch Quality Control

Method Blank
Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091610.D
Acq On : 9 Sep 2016 4:08 pm
Operator : BNA8:ML
Sample : WG929407-1
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 12 14:00:51 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	236126	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	898737	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	477391	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	767862	5.000	ug/mL	0.00
76) Chrysene-d12	14.912	240	722223	5.000	ug/mL	0.00
85) Perylene-d12	17.994	264	641841	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.827	112	629101	11.093	ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 55.46%			
8) Phenol-d5	4.545	99	824695	12.004	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 60.02%			
22) Nitrobenzene-d5	5.368	82	607219	11.579	ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 57.90%			
43) 2-Fluorobiphenyl	7.073	172	1467292	12.181	ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 60.91%			
65) 2,4,6-Tribromophenol	8.643	330	175808	15.567	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 77.83%			
79) Terphenyl-d14	12.586	244	2269500	20.089	ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 100.44%			

Target Compounds				Qvalue
9) Phenol	0.000	0	N.D.	
12) 1,4-Dichlorobenzene	0.000	0	N.D.	d
13) 1,2-Dichlorobenzene	0.000	0	N.D.	
14) Benzyl alcohol	0.000	0	N.D.	
20) 4-Methylphenol	0.000	0	N.D.	
26) 2,4-Dimethylphenol	0.000	0	N.D.	
27) Benzoic acid	0.000	0	N.D.	
30) 1,2,4-Trichlorobenzene	0.000	0	N.D.	
31) Naphthalene	0.000	0	N.D.	d
37) 2-Methylnaphthalene	0.000	0	N.D.	
48) Dimethylphthalate	0.000	0	N.D.	
50) Acenaphthene	0.000	0	N.D.	
53) Dibenzofuran	0.000	0	N.D.	
57) Fluorene	0.000	0	N.D.	
64) n-Nitrosodiphenylamine	0.000	0	N.D.	d
67) Hexachlorobenzene	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091610.D
Acq On : 9 Sep 2016 4:08 pm
Operator : BNA8:ML
Sample : WG929407-1
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 12 14:00:51 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Pentachlorophenol	0.000		0		N.D.	
71) Phenanthrene	0.000		0		N.D.	
72) Anthracene	0.000		0		N.D.	d
75) Fluoranthene	0.000		0		N.D.	
78) Pyrene	0.000		0		N.D.	
80) Butylbenzylphthalate	0.000		0		N.D.	d
82) Benz[a]anthracene	0.000		0		N.D.	d
83) Chrysene	0.000		0		N.D.	d
84) bis(2-Ethylhexyl)phthalat	0.000		0		N.D.	d
87) Benzo[b]fluoranthene	0.000		0		N.D.	
88) Benzo[k]fluoranthene	0.000		0		N.D.	
89) Benzo[a]pyrene	0.000		0		N.D.	d
90) Indeno[1,2,3-cd]pyrene	0.000		0		N.D.	
91) Dibenz[a,h]anthracene	0.000		0		N.D.	
92) Benzo[g,h,i]perylene	0.000		0		N.D.	

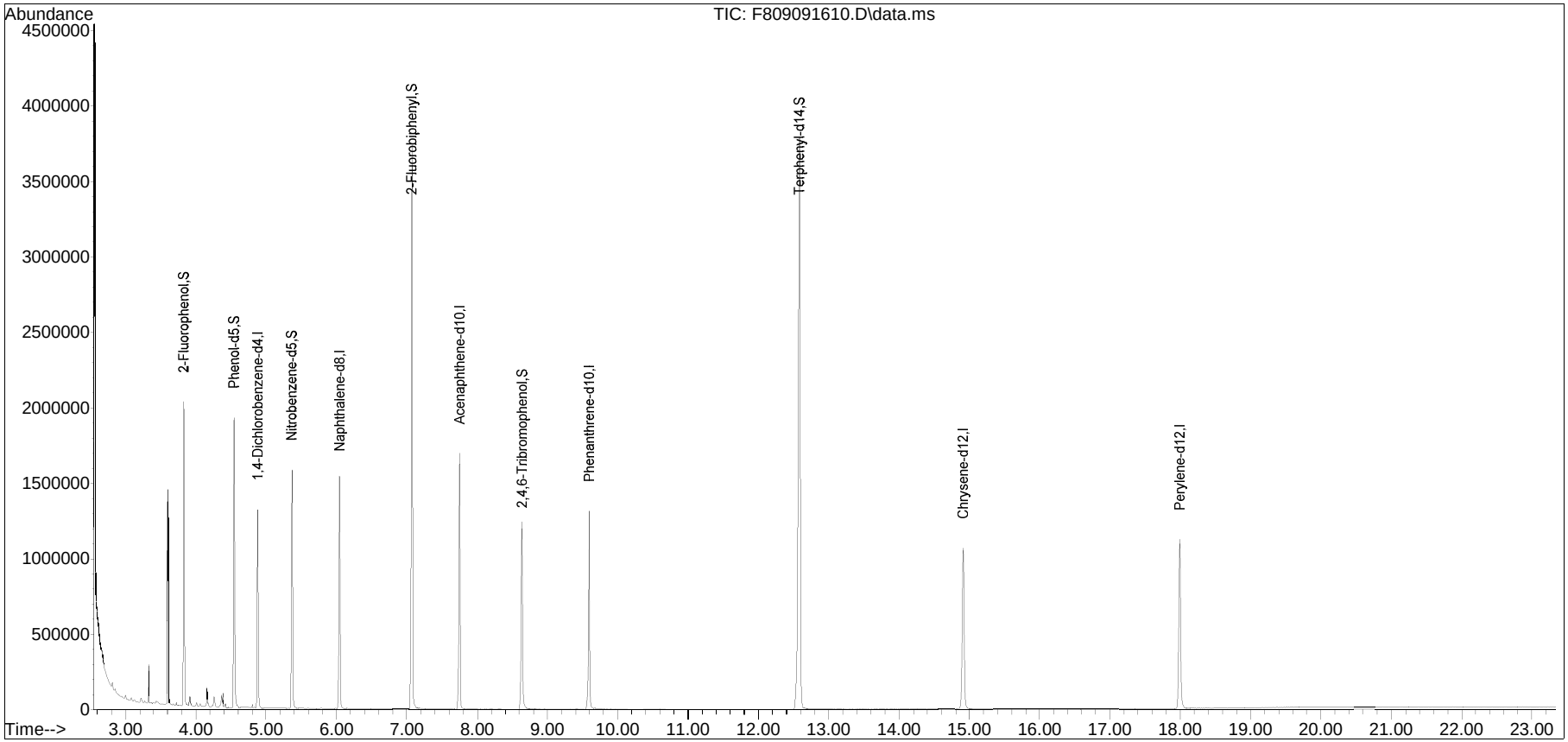
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091610.D
Acq On : 9 Sep 2016 4:08 pm
Operator : BNA8:ML
Sample : WG929407-1
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 12 14:00:51 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed



LCS Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091611.D
Acq On : 9 Sep 2016 4:39 pm
Operator : BNA8:ML
Sample : WG929407-2
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 14:04:33 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.877	152	224498	5.000 ug/mL	0.00
21) Naphthalene-d8	6.042	136	831147	5.000 ug/mL	0.00
38) Acenaphthene-d10	7.747	164	437244	5.000 ug/mL	0.00
61) Phenanthrene-d10	9.601	188	703561M4	5.000 ug/mL	0.00
76) Chrysene-d12	14.927	240	650069	5.000 ug/mL	0.00
85) Perylene-d12	17.999	264	592153	5.000 ug/mL	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	3.832	112	693346	12.859 ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 64.30%		
8) Phenol-d5	4.550	99	937293	14.350 ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 71.75%		
22) Nitrobenzene-d5	5.378	82	676656	13.952 ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 69.76%		
43) 2-Fluorobiphenyl	7.078	172	1712365	15.520 ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 77.60%		
65) 2,4,6-Tribromophenol	8.647	330	213604M4	20.642 ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 103.21%		
79) Terphenyl-d14	12.586	244	2030952	19.973 ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 99.86%		
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	2.927	74	203049	7.531 ug/mL#	97
3) Pyridine	2.956	79	342918	6.517 ug/mL	97
5) Benzaldehyde	4.511	77	246176	5.848 ug/ml	100
6) Aniline	4.598	93	556313M4	7.020 ug/ml	
7) bis(2-Chloroethyl)ether	4.641	63	231165	6.873 ug/mL	98
9) Phenol	4.559	94	500181	7.473 ug/mL#	86
10) 2-Chlorophenol	4.699	128	422122	6.957 ug/mL	99
11) 1,3-Dichlorobenzene	4.829	146	439412	6.564 ug/mL	100
12) 1,4-Dichlorobenzene	4.892	146	433495	6.509 ug/mL	99
13) 1,2-Dichlorobenzene	5.026	146	421655	6.664 ug/mL	99
14) Benzyl alcohol	4.993	108	299087	8.291 ug/mL	99
15) bis(2-chloroisopropyl)eth	5.103	45	321387	6.884 ug/mL#	10
16) 2-Methylphenol	5.084	108	350576M4	7.439 ug/mL	
17) Acetophenone	5.233	105	490972	6.818 ug/ml#	77
18) Hexachloroethane	5.330	117	156573	6.439 ug/mL	92
19) N-Nitroso-di-n-propylamin	5.229	70	256461	7.793 ug/mL	94
20) 4-Methylphenol	5.224	108	394480	7.748 ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091611.D
Acq On : 9 Sep 2016 4:39 pm
Operator : BNA8:ML
Sample : WG929407-2
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 14:04:33 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Nitrobenzene	5.392	77	345236	7.161	ug/mL	95
24) Isophorone	5.609	82	668888	8.622	ug/mL	96
25) 2-Nitrophenol	5.681	139	240137	7.619	ug/mL#	88
26) 2,4-Dimethylphenol	5.715	107	347315	6.929	ug/mL	97
27) Benzoic acid	5.816	105	98153M4	9.778	ug/mL	
28) bis(2-Chloroethoxy)methan	5.802	93	446554	7.946	ug/mL	99
29) 2,4-Dichlorophenol	5.908	162	368461	8.036	ug/mL	99
30) 1,2,4-Trichlorobenzene	5.985	180	346053	6.951	ug/mL	99
31) Naphthalene	6.062	128	1130736	7.080	ug/mL	99
32) 2-Chloroaniline	5.648	127	611561	7.593	ug/ml	99
33) 4-Chloroaniline	6.110	127	557651M4	8.109	ug/mL	
34) Hexachlorobutadiene	6.172	225	175667	6.941	ug/mL	99
35) Caprolactam	6.457	113	151463M4	10.201	ug/ml	
36) 4-Chloro-3-methylphenol	6.577	107	385671	8.731	ug/mL	99
37) 2-Methylnaphthalene	6.721	142	828205	7.644	ug/mL	100
39) 1,2,4,5-Tetrachlorobenzen	6.885	216	354537	7.781	ug/mL	100
40) Hexachlorocyclopentadiene	6.871	237	124297	6.259	ug/mL	95
41) 2,4,6-Trichlorophenol	6.996	196	281569	8.577	ug/mL	99
42) 2,4,5-Trichlorophenol	7.034	196	273176M6	9.364	ug/mL	
44) Biphenyl	7.174	154	940086	7.449	ug/ml	99
45) 2-Chloronaphthalene	7.198	162	791948	8.021	ug/mL	98
46) 2-Nitroaniline	7.299	65	208481M4	9.134	ug/mL	
47) Acenaphthylene	7.607	152	1353303	8.290	ug/mL	99
48) Dimethylphthalate	7.473	163	995332M4	9.372	ug/mL	
49) 2,6-Dinitrotoluene	7.535	165	235185M4	9.533	ug/mL	
50) Acenaphthene	7.786	153	828100	8.338	ug/mL	98
51) 3-Nitroaniline	7.713	138	263159M4	9.323	ug/mL	
52) 2,4-Dinitrophenol	7.814	184	85026	7.805	ug/mL#	61
53) Dibenzofuran	7.969	168	1139506	8.788	ug/mL	98
54) 2,3,4,6-Tetrachlorophenol	8.099	232	199096M4	10.121	ug/mL	
55) 2,4-Dinitrotoluene	7.954	165	308344	9.744	ug/mL	89
56) 4-Nitrophenol	7.891	109	99300	9.287	ug/mL	96
57) Fluorene	8.354	166	946870	8.864	ug/mL	100
58) 4-Chlorophenyl-phenylethe	8.349	204	429784	8.987	ug/mL	99
59) Diethylphthalate	8.219	149	1004487	9.254	ug/mL	99
60) 4-Nitroaniline	8.387	138	294710M4	10.108	ug/mL	
62) 4,6-Dinitro-2-methylpheno	8.412	198	148627M4	9.299	ug/mL	
63) Azobenzene	8.542	182	265157M4	9.290	ug/mL	
64) n-Nitrosodiphenylamine	8.493	169	741111	9.912	ug/mL	97
66) 4-Bromophenyl-phenylether	8.960	248	245039M4	9.384	ug/mL	
67) Hexachlorobenzene	9.038	284	256676M4	9.402	ug/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091611.D
Acq On : 9 Sep 2016 4:39 pm
Operator : BNA8:ML
Sample : WG929407-2
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 14:04:33 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) Atrazine	9.196	200	244529	8.478	ug/ml	98
69) Pentachlorophenol	9.322	266	119027	8.299	ug/mL	96
70) Pentachloronitrobenzene	9.331	237	113247	10.415	ug/ml	91
71) Phenanthrene	9.635	178	1472128	9.625	ug/mL	99
72) Anthracene	9.712	178	1390557M4	9.204	ug/mL	
73) Carbazole	9.976	167	1434734M4	9.888	ug/mL	
74) Di-n-butylphthalate	10.598	149	1769309	10.081	ug/mL	100
75) Fluoranthene	11.729	202	1532510	9.691	ug/mL	95
77) Benzidine	12.062	184	1290322	12.021	ug/mL	99
78) Pyrene	12.182	202	1589715	9.798	ug/mL	96
80) Butylbenzylphthalate	13.771	149	837176	10.516	ug/mL	96
81) 3,3'-Dichlorobenzidine	14.931	252	465750	8.748	ug/mL	99
82) Benz[a]anthracene	14.903	228	1487243M4	9.668	ug/mL	
83) Chrysene	14.989	228	1475291M4	10.330	ug/mL	
84) bis(2-Ethylhexyl)phthalat	15.230	149	1115614	10.651	ug/mL	99
86) Di-n-octylphthalate	16.732	149	1958604	10.412	ug/mL	99
87) Benzo[b]fluoranthene	17.276	252	1403996	9.711	ug/mL	98
88) Benzo[k]fluoranthene	17.334	252	1426341M4	10.792	ug/mL	
89) Benzo[a]pyrene	17.898	252	1347561	9.893	ug/mL	99
90) Indeno[1,2,3-cd]pyrene	19.824	276	1178023	9.946	ug/mL	99
91) Dibenz[a,h]anthracene	19.877	278	1257721	10.538	ug/mL	95
92) Benzo[g,h,i]perylene	20.276	276	1310652	10.231	ug/mL	97

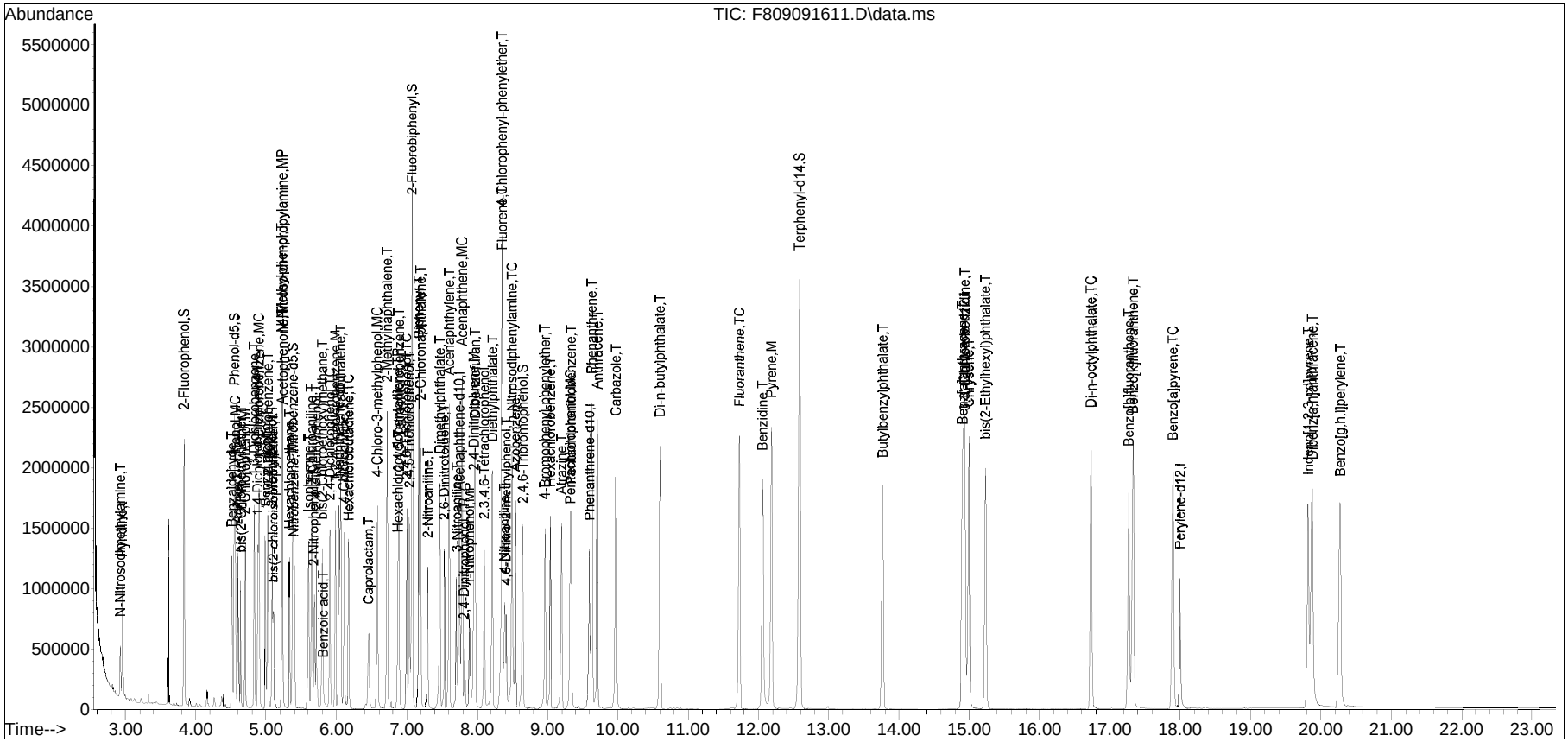
(#) = qualifier out of range (m) = manual integration (+) = signals summed

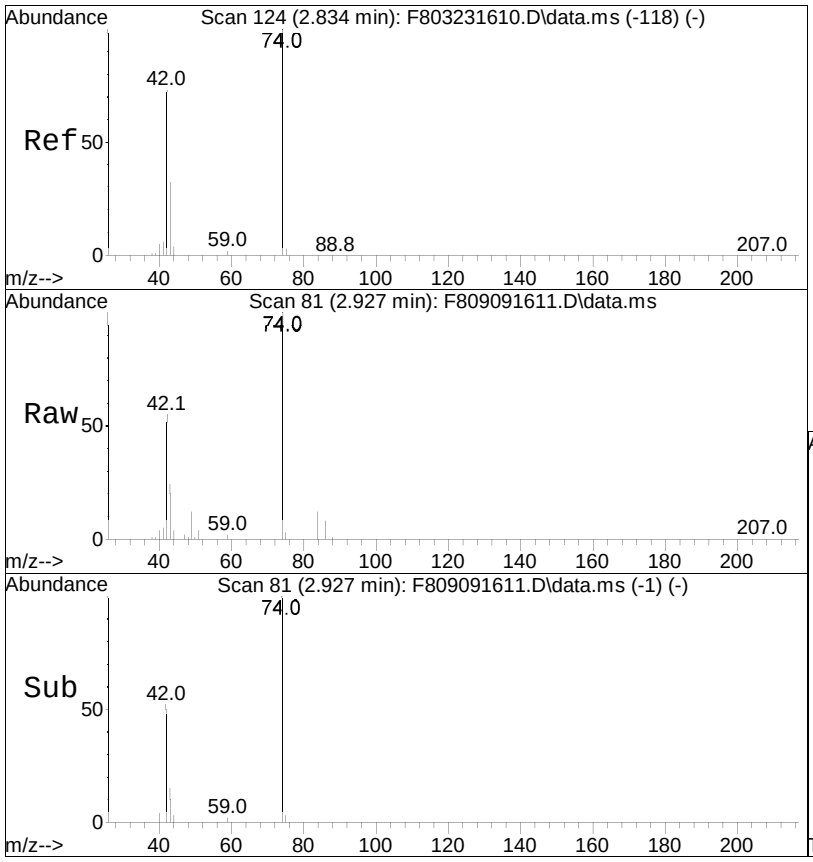
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091611.D
Acq On : 9 Sep 2016 4:39 pm
Operator : BNA8:ML
Sample : WG929407-2
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 14:04:33 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

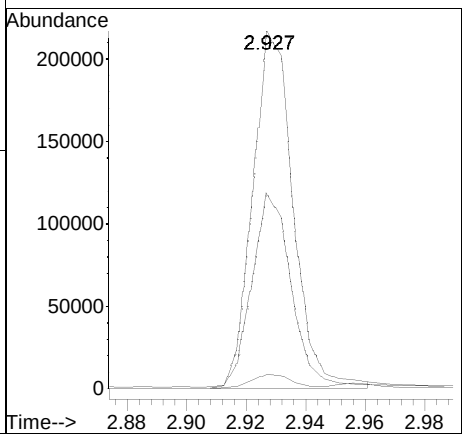


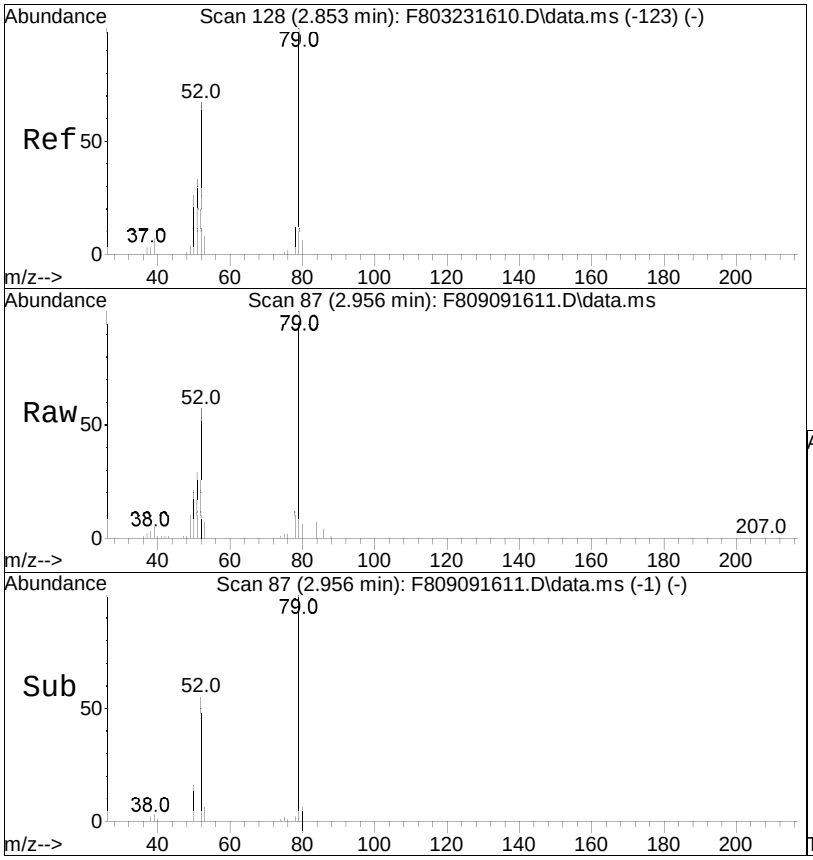


#2
N-Nitrosodimethylamine
Concen: 7.53 ug/mL
RT: 2.927 min Scan# 81
Delta R.T. -0.019 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion: 74 Resp: 203049

Ion	Ratio	Lower	Upper
74	100		
42	52.7	43.8	65.6
40	4.0	4.2	6.4#

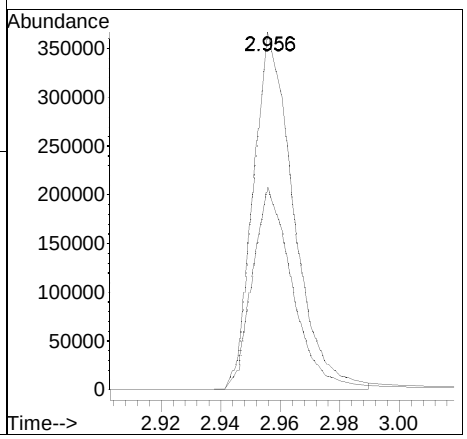


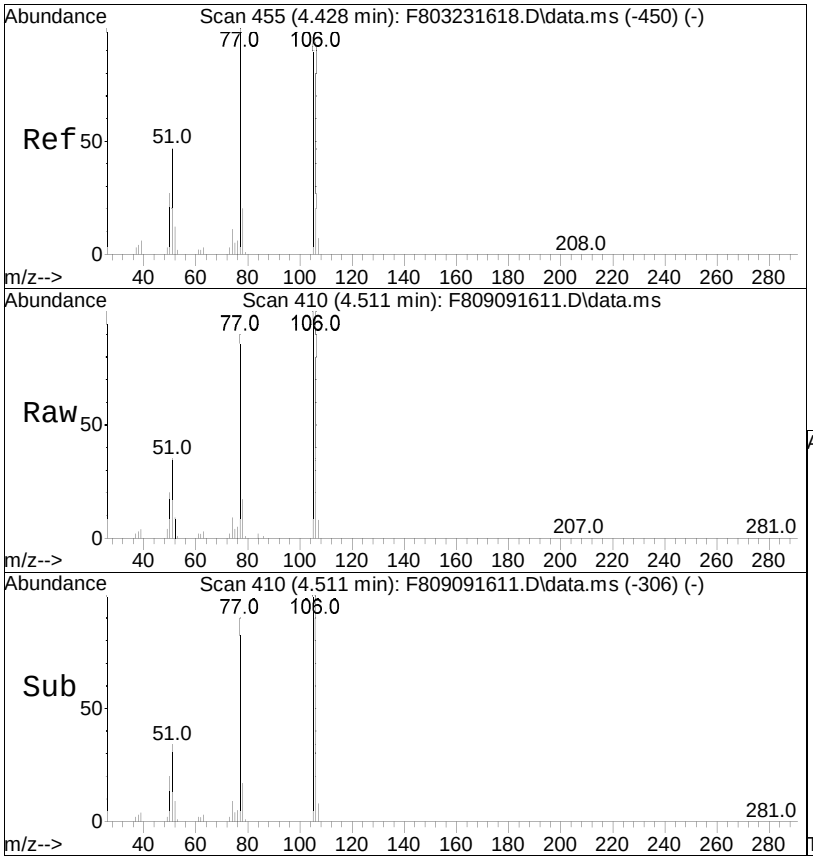


#3
Pyridine
Concen: 6.52 ug/mL
RT: 2.956 min Scan# 87
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion: 79 Resp: 342918

Ion	Ratio	Lower	Upper
79	100		
52	56.3	46.6	69.8

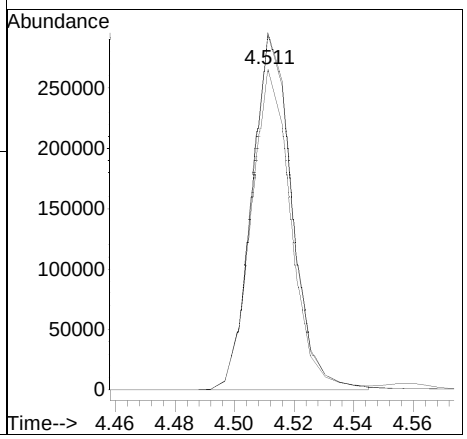


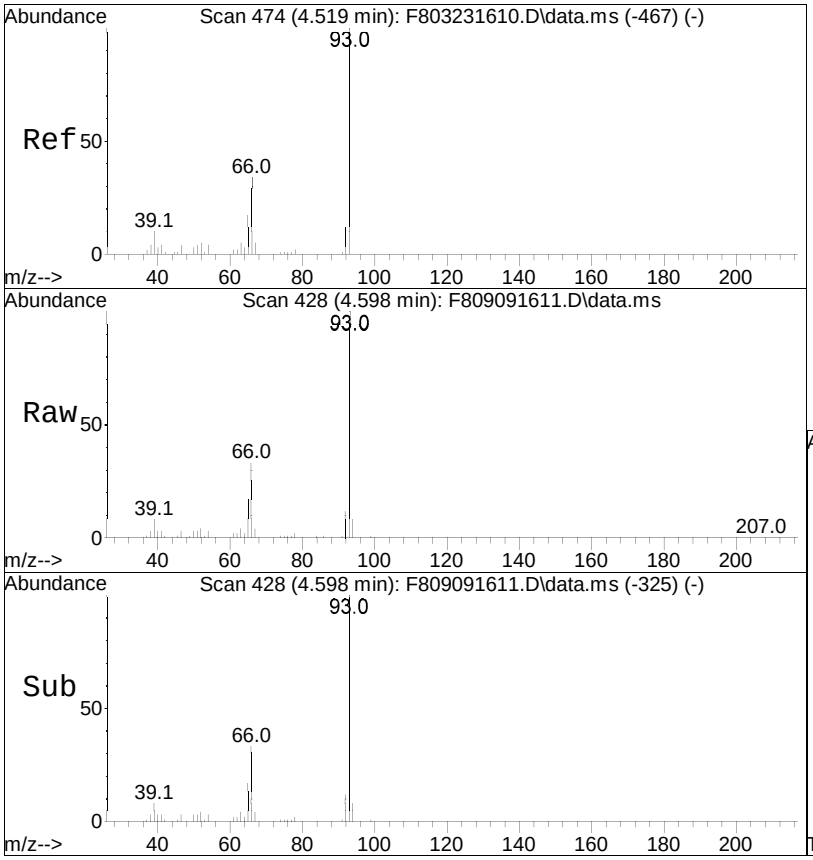


#5
Benzaldehyde
Concen: 5.85 ug/ml
RT: 4.511 min Scan# 410
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion: 77 Resp: 246176

Ion	Ratio	Lower	Upper
77	100		
105	110.5	88.1	132.1
106	112.5	89.8	134.8

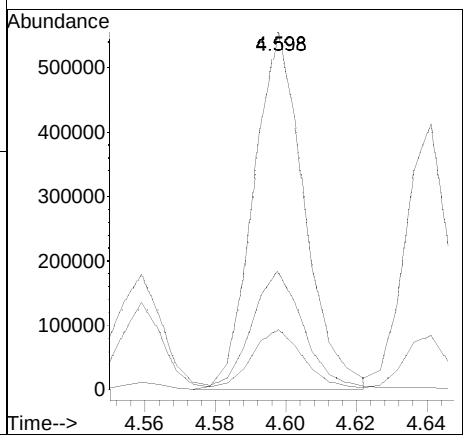


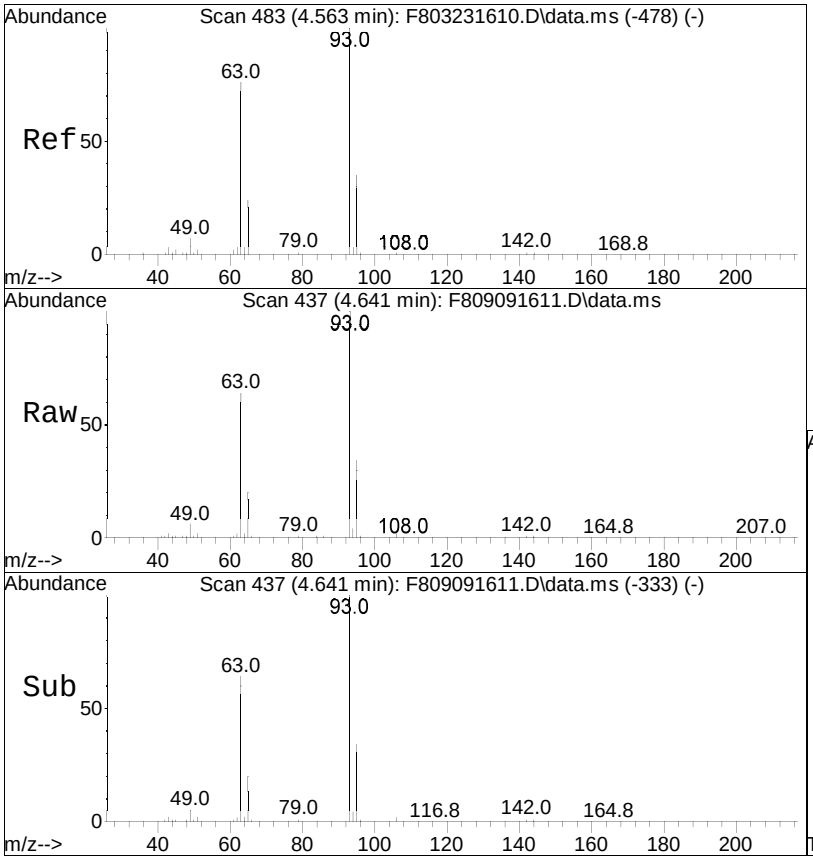


#6
Aniline
Concen: 7.02 ug/ml M4
RT: 4.598 min Scan# 428
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion: 93 Resp: 556313

Ion	Ratio	Lower	Upper
93	100		
66	32.8	26.7	40.1
65	17.4	14.2	21.4

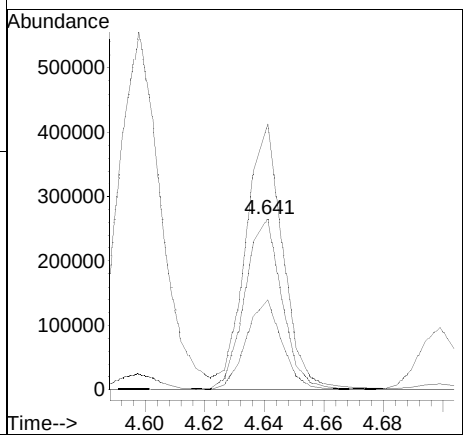


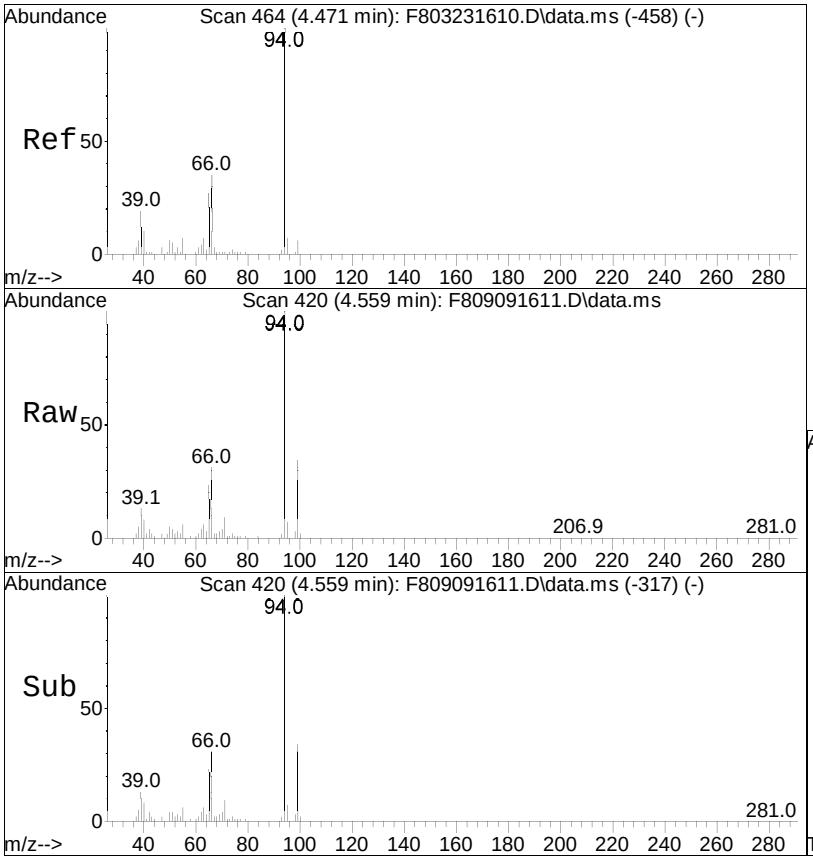


#7
bis(2-Chloroethyl)ether
Concen: 6.87 ug/mL
RT: 4.641 min Scan# 437
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion: 63 Resp: 231165

Ion	Ratio	Lower	Upper
63	100		
93	157.4	123.0	184.4
95	50.9	41.1	61.7

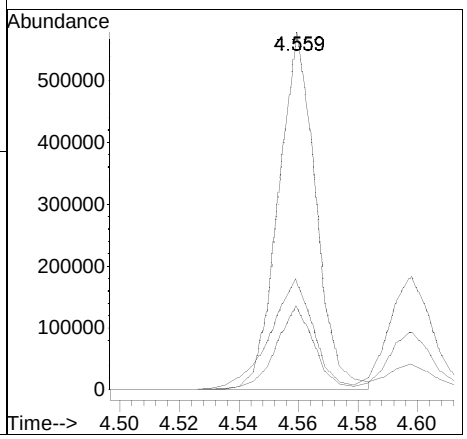


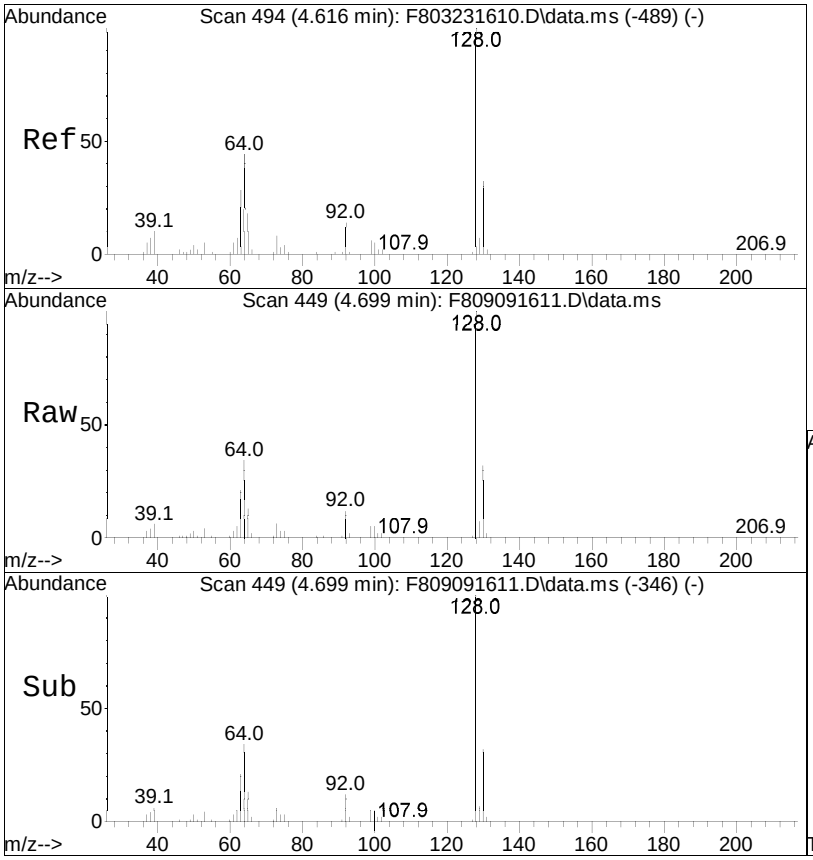


#9
Phenol
Concen: 7.47 ug/mL
RT: 4.559 min Scan# 420
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion: 94 Resp: 500181

Ion	Ratio	Lower	Upper
94	100		
66	37.7	21.7	32.5#
65	24.6	17.6	26.4

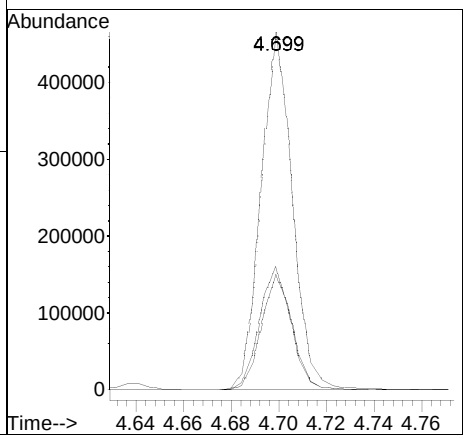


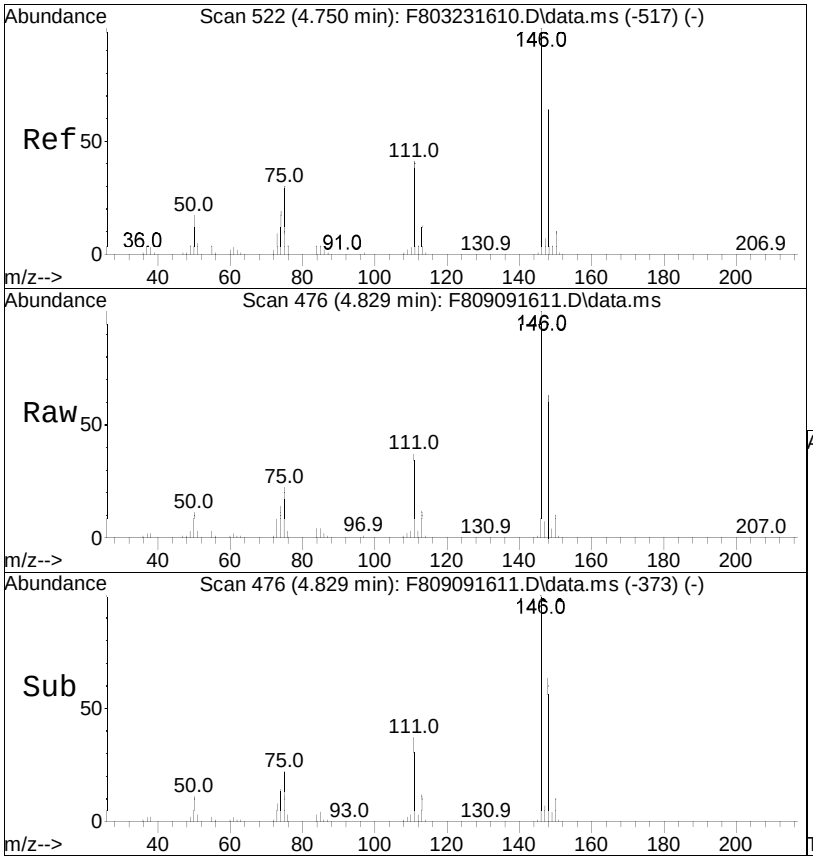


#10
2-Chlorophenol
Concen: 6.96 ug/mL
RT: 4.699 min Scan# 449
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:128 Resp: 422122

Ion	Ratio	Lower	Upper
128	100		
64	34.8	27.6	41.4
130	32.2	26.2	39.4

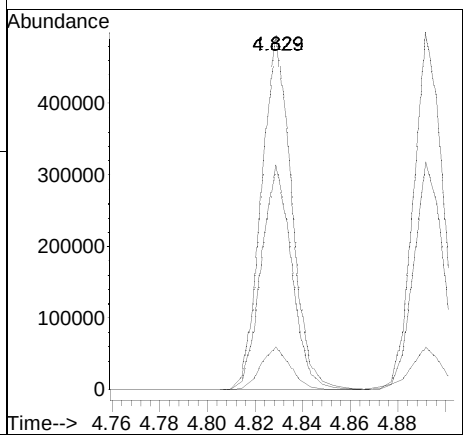


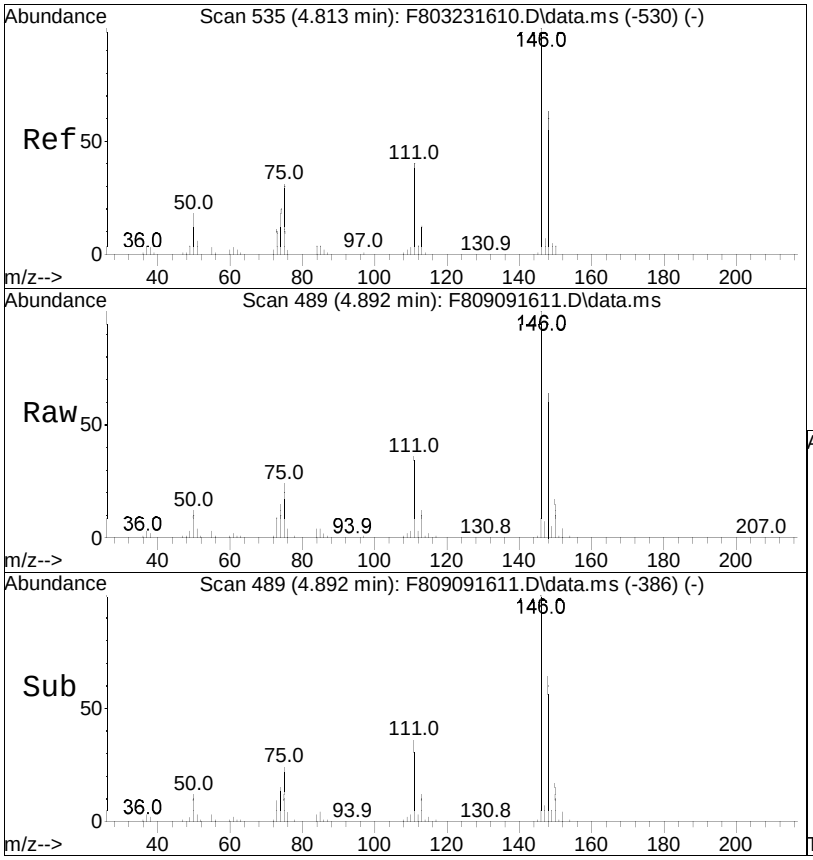


#11
1,3-Dichlorobenzene
Concen: 6.56 ug/mL
RT: 4.829 min Scan# 476
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:146 Resp: 439412

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.0	76.6
113	11.8	9.7	14.5

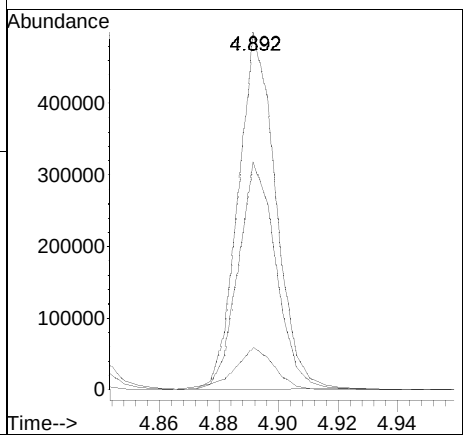


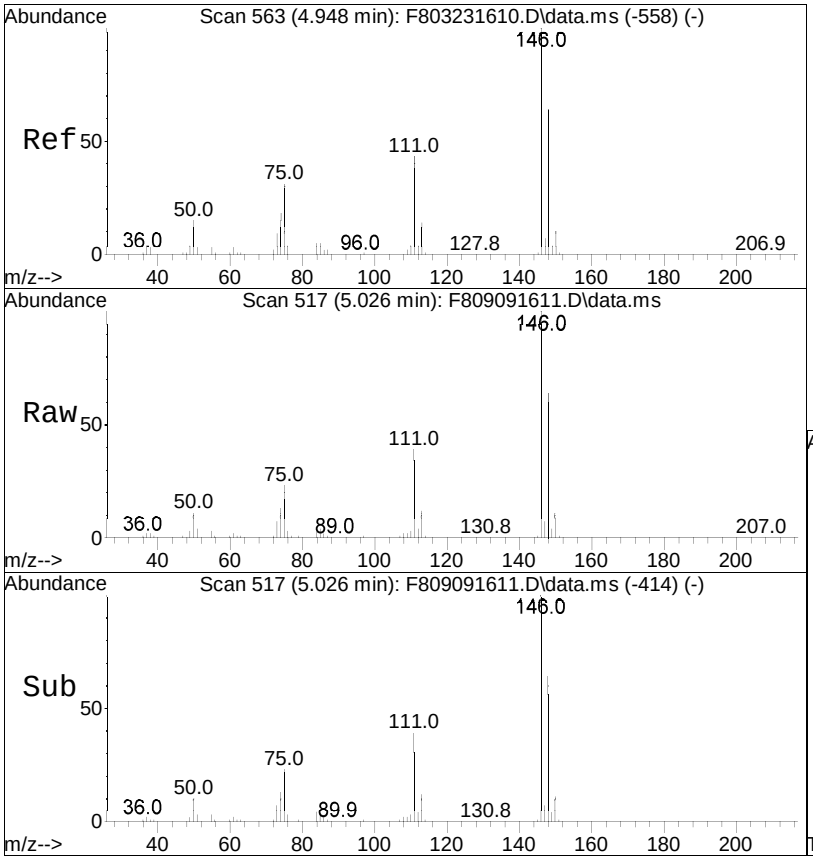


#12
1,4-Dichlorobenzene
Concen: 6.51 ug/mL
RT: 4.892 min Scan# 489
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:146 Resp: 433495

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.2	76.8
113	13.0	9.1	13.7

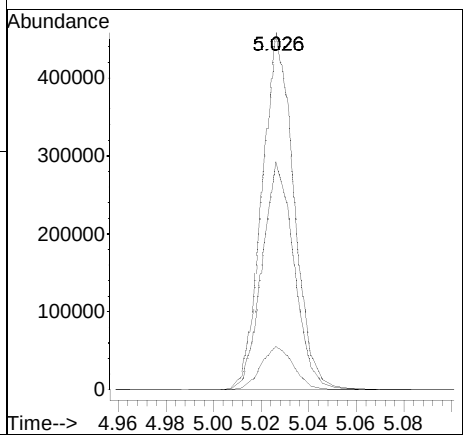


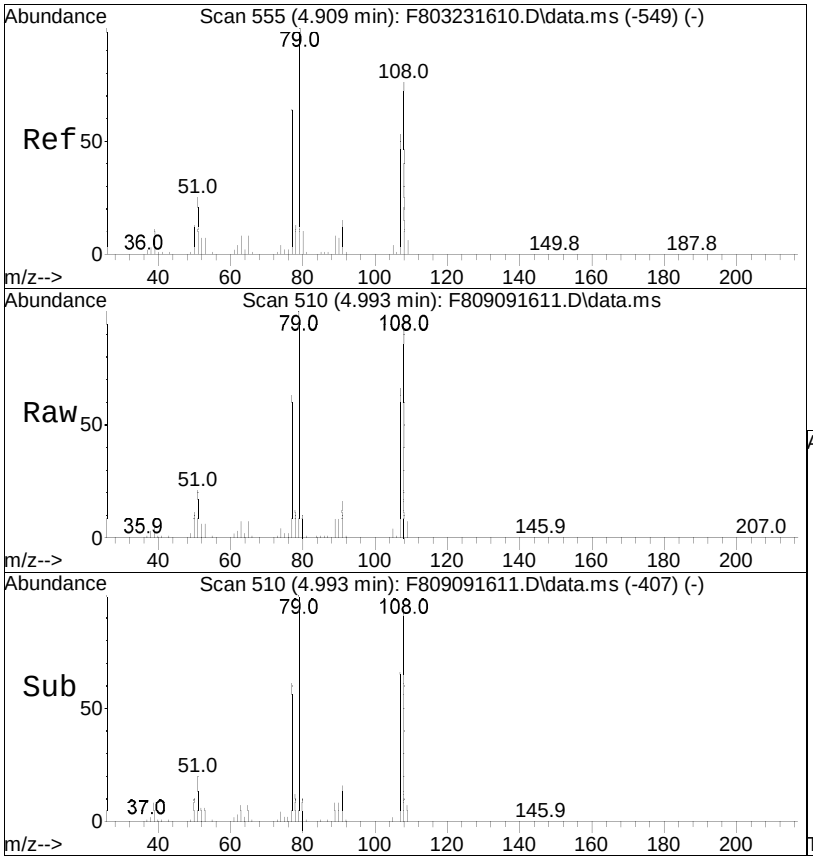


#13
1,2-Dichlorobenzene
Concen: 6.66 ug/mL
RT: 5.026 min Scan# 517
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:146 Resp: 421655

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.0	76.6
113	12.5	10.0	15.0

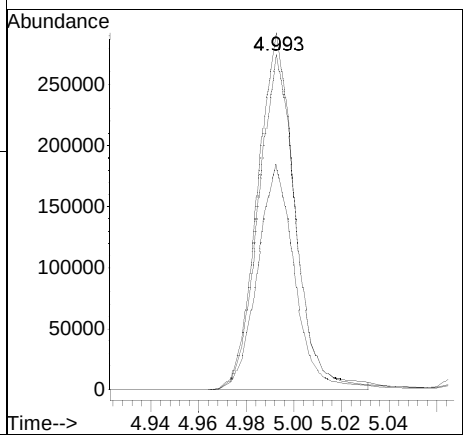


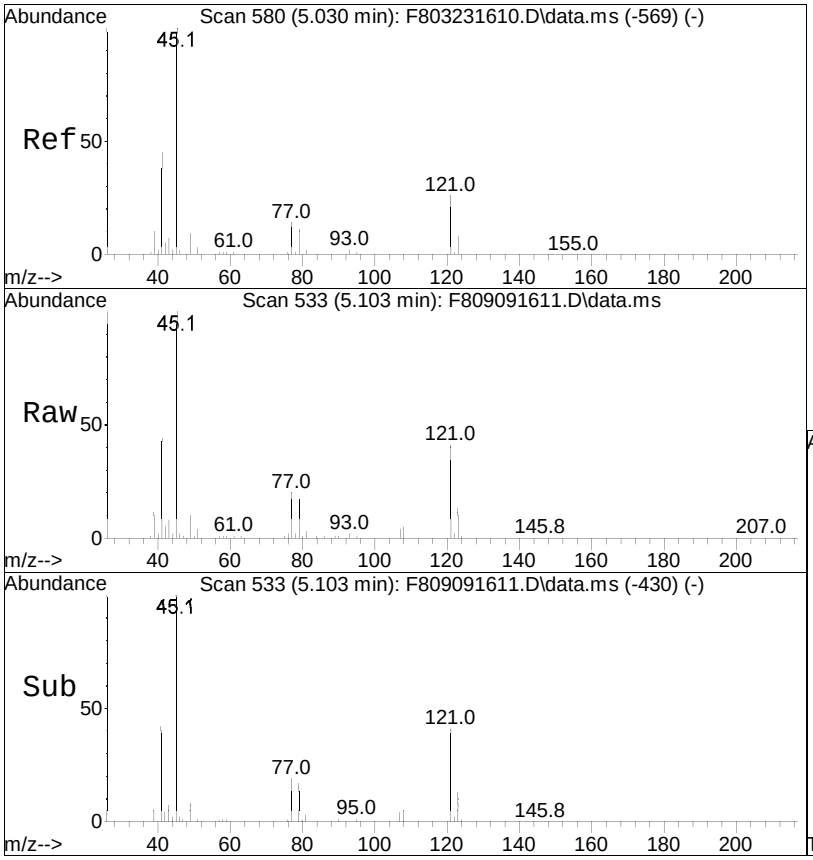


#14
Benzyl alcohol
Concen: 8.29 ug/mL
RT: 4.993 min Scan# 510
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:108 Resp: 299087

Ion	Ratio	Lower	Upper
108	100		
79	106.1	84.5	126.7
77	66.8	52.9	79.3

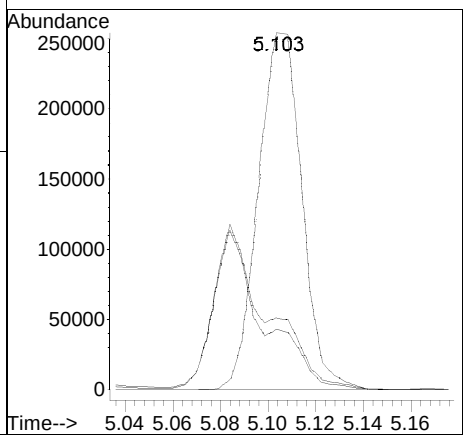


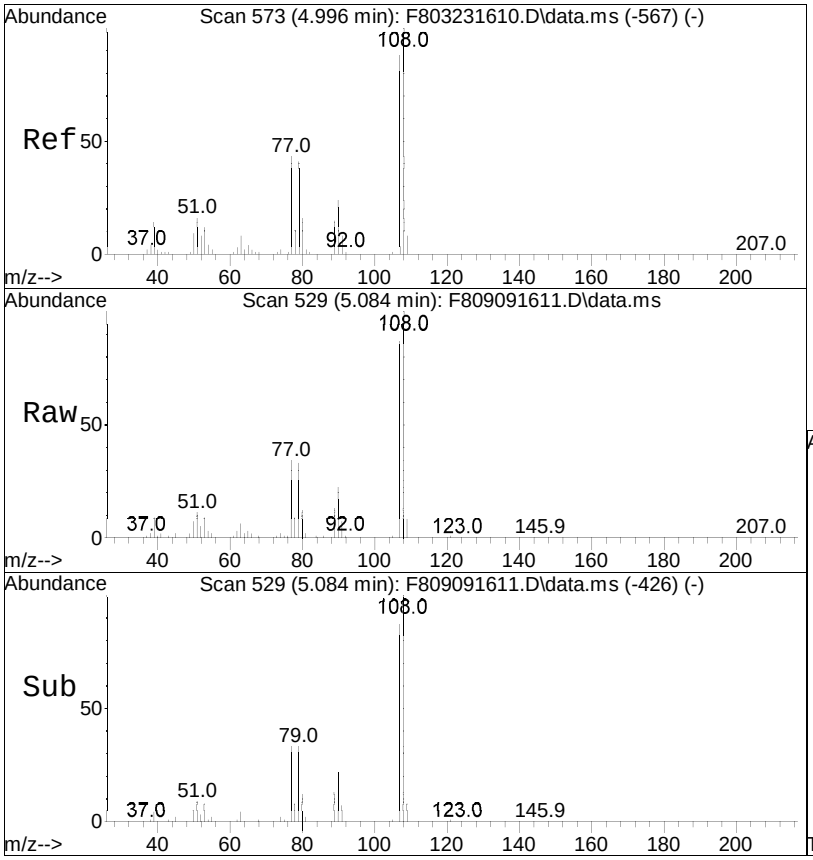


#15
bis(2-chloroisopropyl)ether
Concen: 6.88 ug/mL
RT: 5.103 min Scan# 533
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion: 45 Resp: 321387

Ion	Ratio	Lower	Upper
45	100		
77	55.2	13.2	19.8#
79	49.7	10.9	16.3#

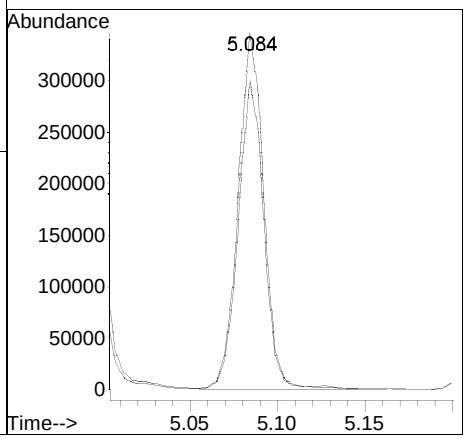


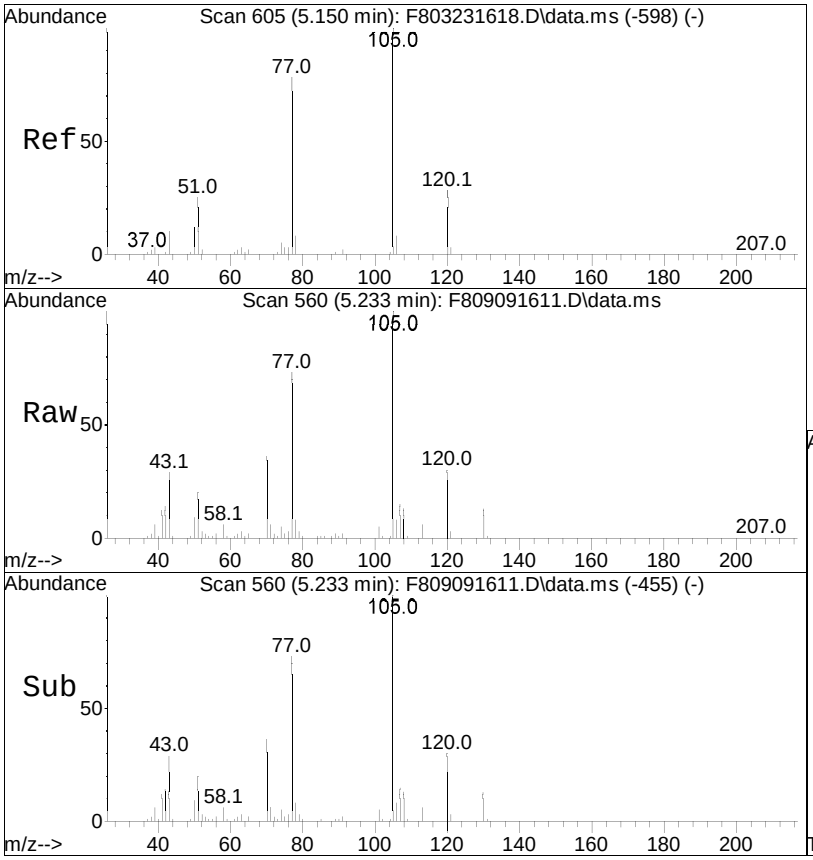


#16
2-Methylphenol
Concen: 7.44 ug/mL M4
RT: 5.084 min Scan# 529
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:108 Resp: 350576

Ion	Ratio	Lower	Upper
108	100		
107	85.6	68.1	102.1

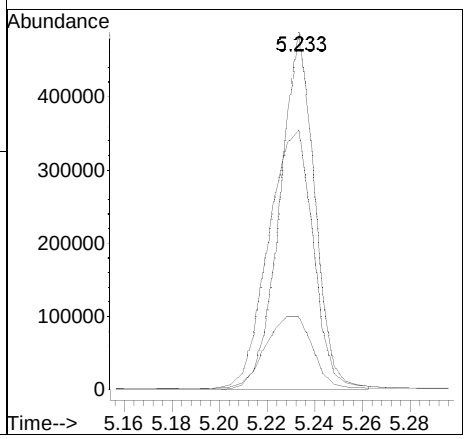


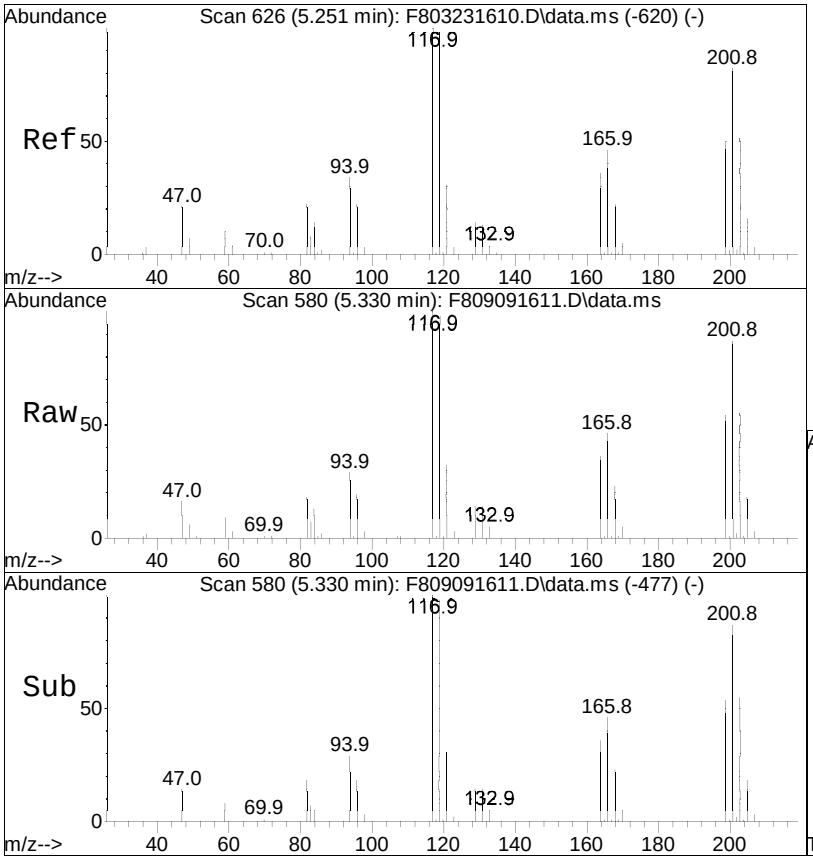


#17
Acetophenone
Concen: 6.82 ug/ml
RT: 5.233 min Scan# 560
Delta R.T. 0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:105 Resp: 490972

Ion	Ratio	Lower	Upper
105	100		
77	93.5	57.7	86.5#
51	27.6	17.1	25.7#

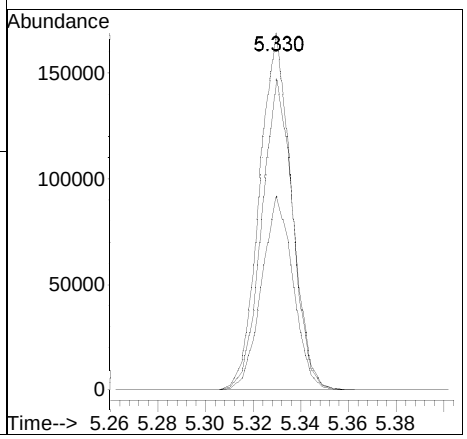


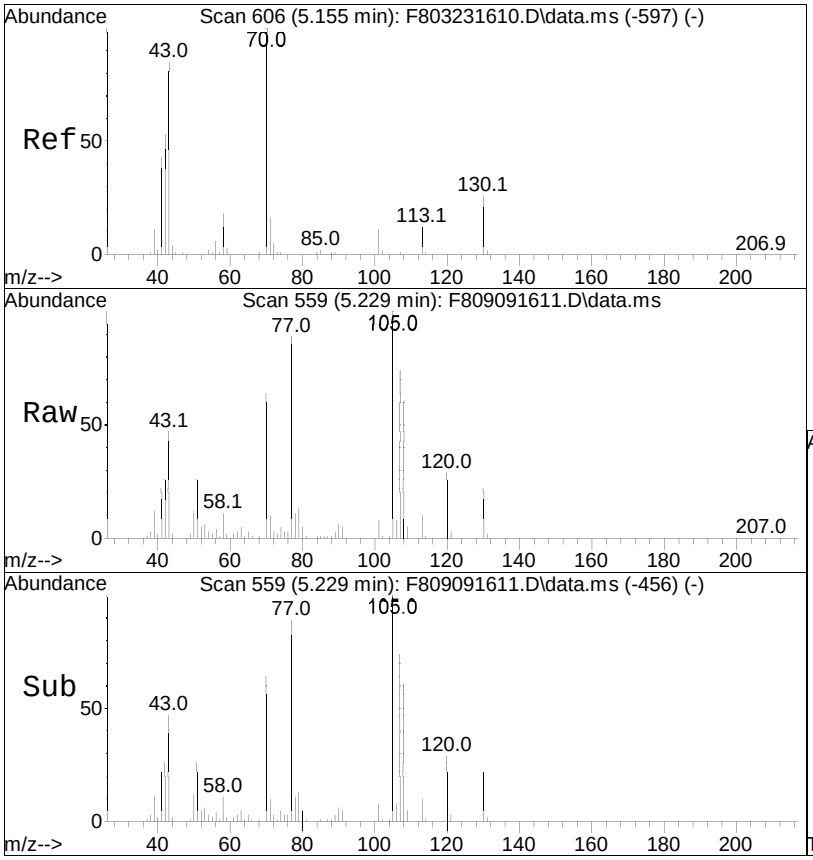


#18
Hexachloroethane
Concen: 6.44 ug/mL
RT: 5.330 min Scan# 580
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:117 Resp: 156573

Ion	Ratio	Lower	Upper
117	100		
201	86.1	62.8	94.2
199	54.1	39.0	58.4

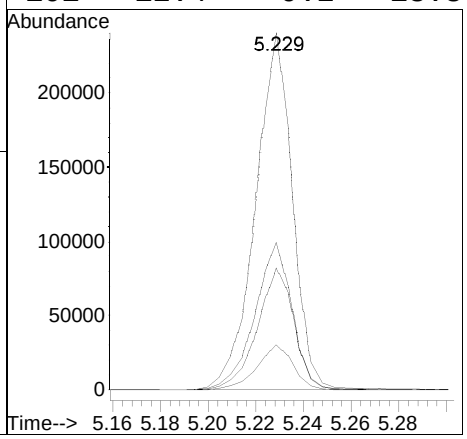


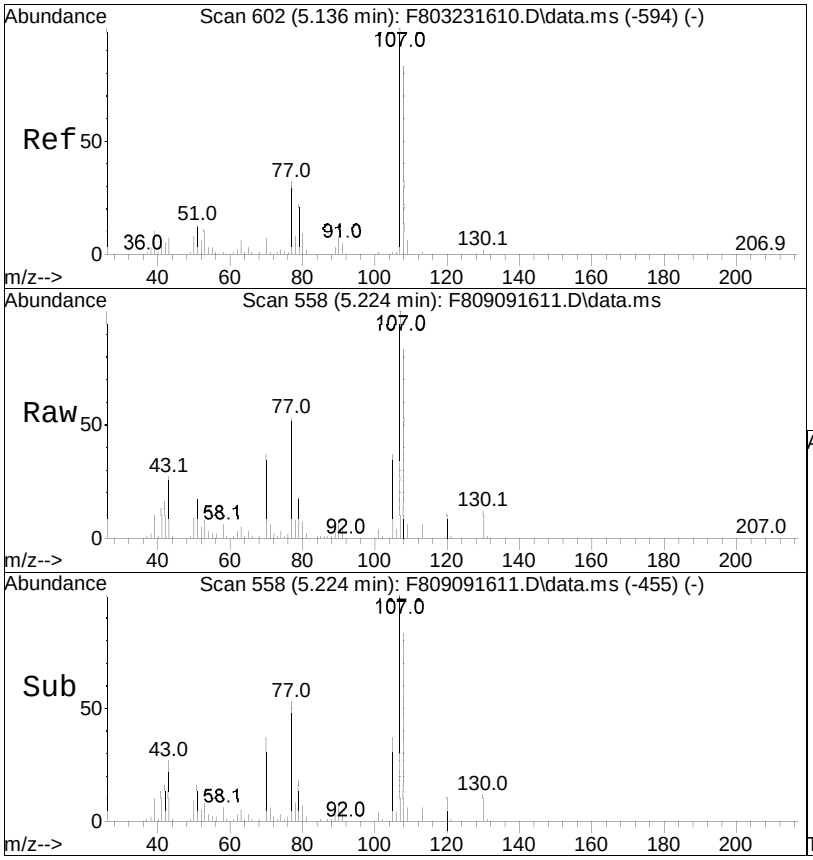


#19
N-Nitroso-di-n-propylamine
Concen: 7.79 ug/mL
RT: 5.229 min Scan# 559
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion: 70 Resp: 256461

Ion	Ratio	Lower	Upper
70	100		
42	42.1	37.1	55.7
130	34.2	24.0	36.0
101	12.4	9.2	13.8

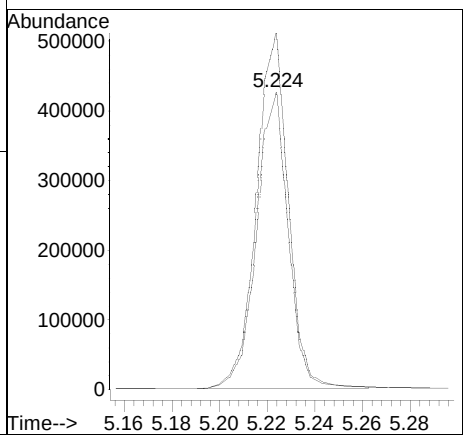


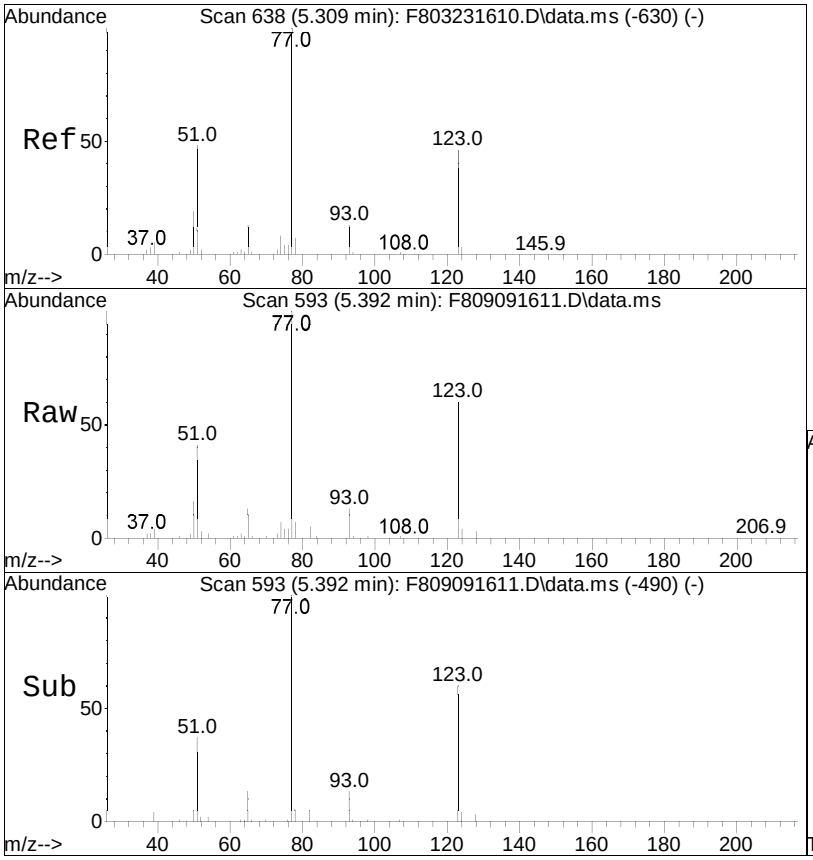


#20
4-Methylphenol
Concen: 7.75 ug/mL
RT: 5.224 min Scan# 558
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:108 Resp: 394480

Ion	Ratio	Lower	Upper
108	100		
107	120.8	94.6	142.0

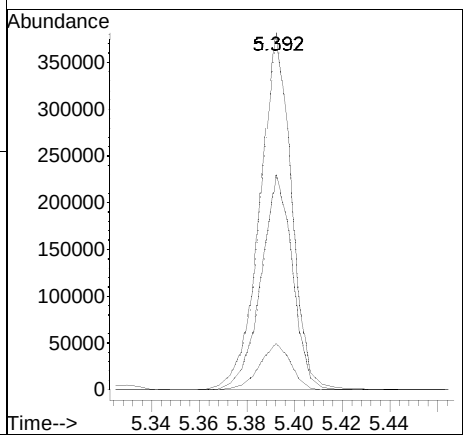


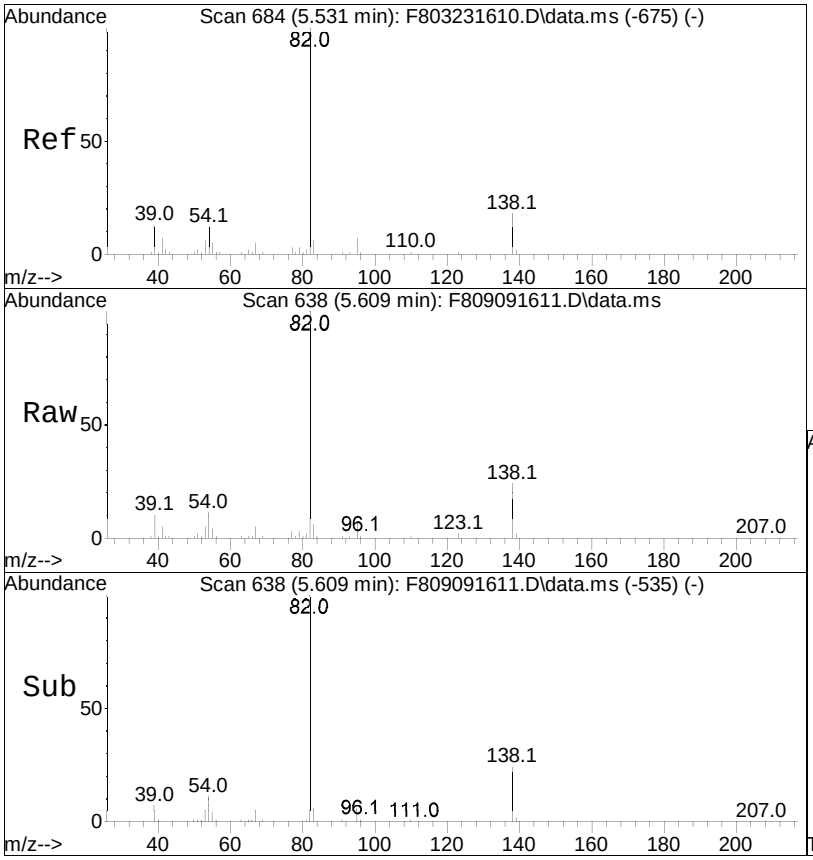


#23
Nitrobenzene
Concen: 7.16 ug/mL
RT: 5.392 min Scan# 593
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion: 77 Resp: 345236

Ion	Ratio	Lower	Upper
77	100		
123	60.9	45.4	68.2
65	13.4	10.2	15.4

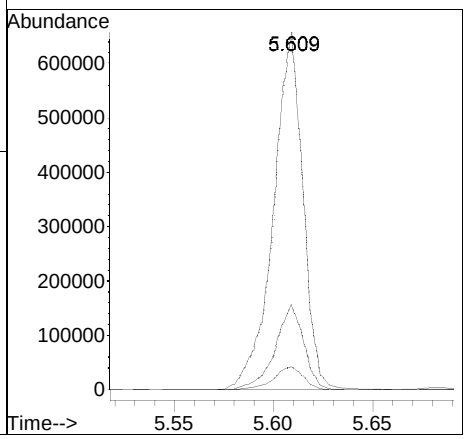


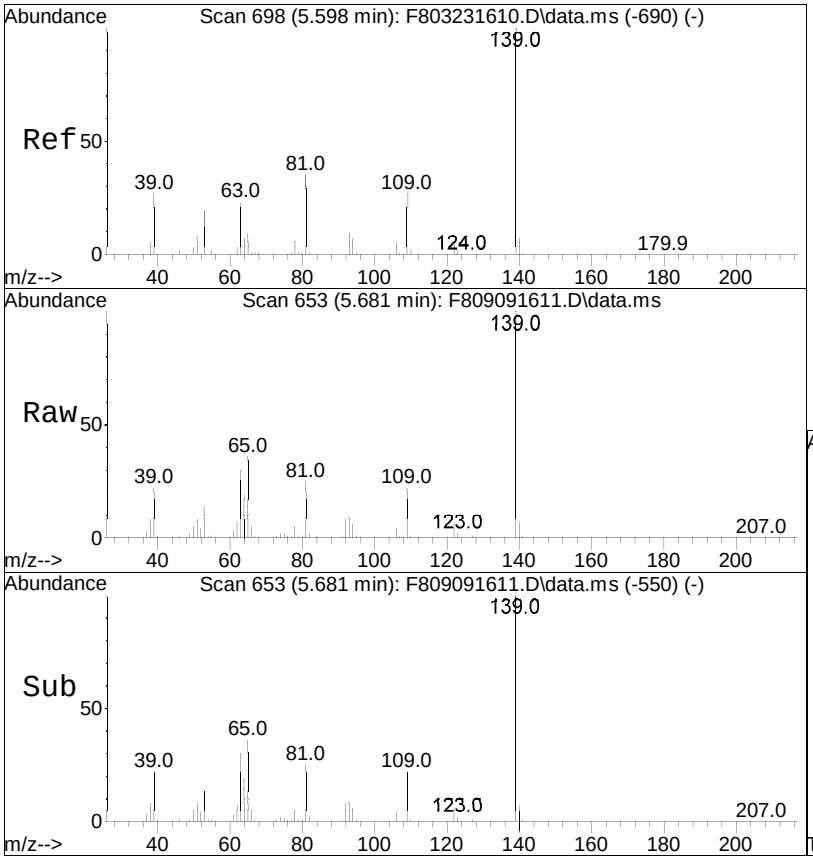


#24
Isophorone
Concen: 8.62 ug/mL
RT: 5.609 min Scan# 638
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion: 82 Resp: 668888

Ion	Ratio	Lower	Upper
82	100		
138	23.3	17.0	25.4
95	6.7	4.9	7.3

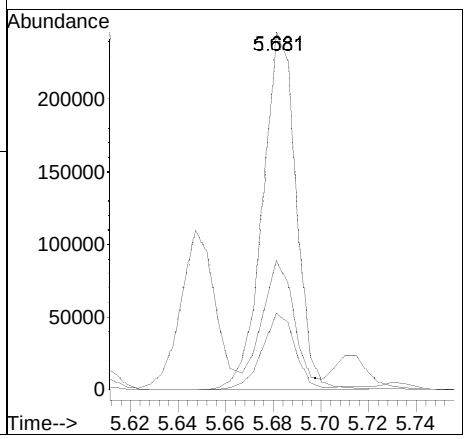


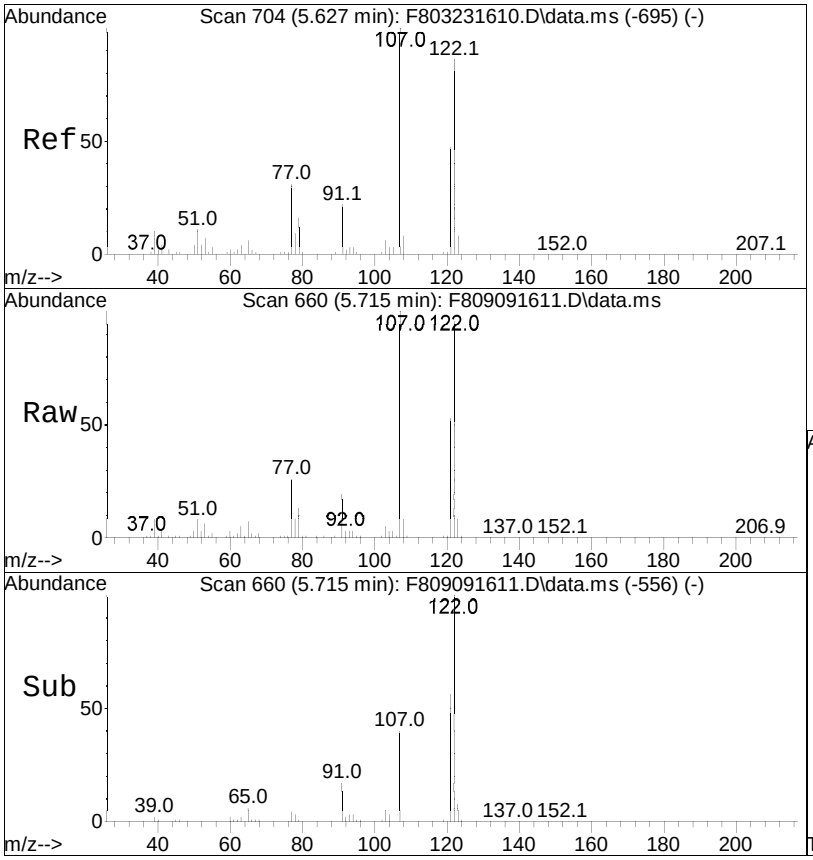


#25
2-Nitrophenol
Concen: 7.62 ug/mL
RT: 5.681 min Scan# 653
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:139 Resp: 240137

Ion	Ratio	Lower	Upper
139	100		
65	45.6	28.4	42.6#
109	21.5	16.3	24.5

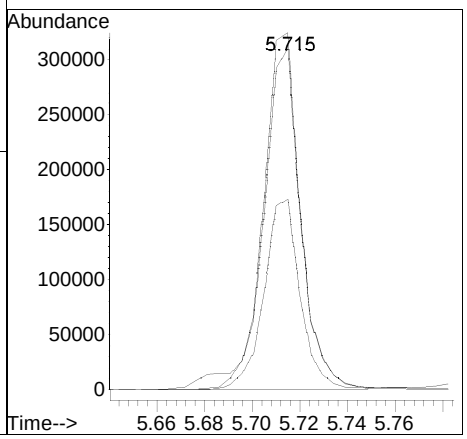


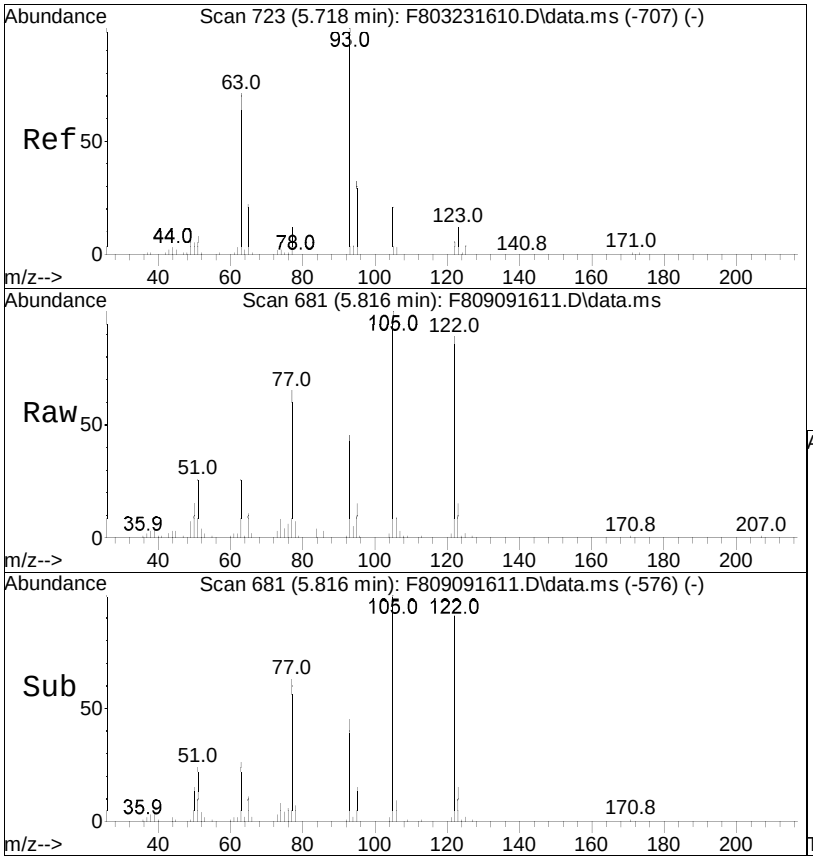


#26
2,4-Dimethylphenol
Concen: 6.93 ug/mL
RT: 5.715 min Scan# 660
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:107 Resp: 347315

Ion	Ratio	Lower	Upper
107	100		
122	94.0	78.4	117.6
121	52.9	43.0	64.6

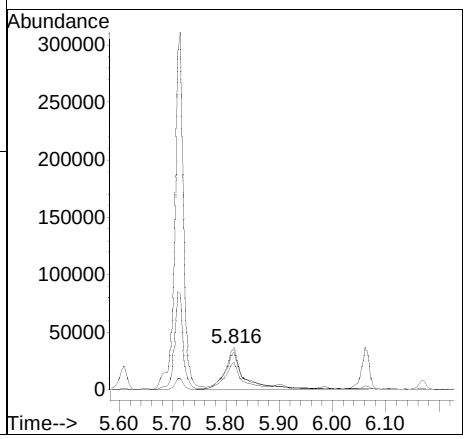


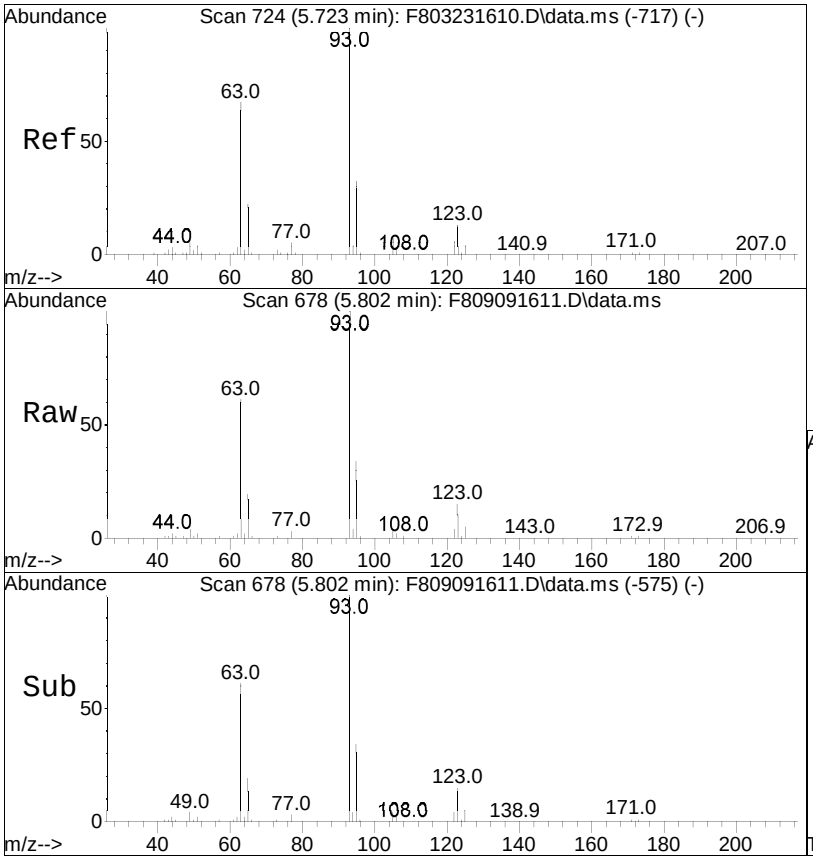


#27
Benzoic acid
Concen: 9.78 ug/mL M4
RT: 5.816 min Scan# 681
Delta R.T. 0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:105 Resp: 98153

Ion	Ratio	Lower	Upper
105	100		
122	74.7	70.9	106.3
77	46.8	53.4	80.0#

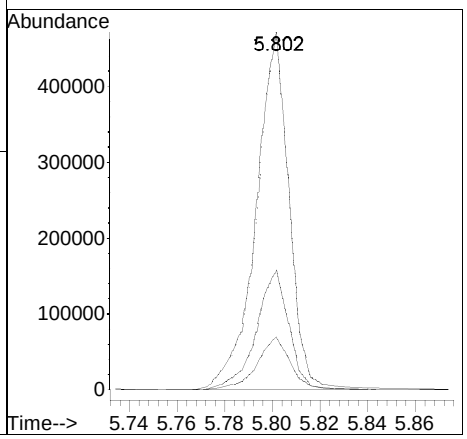


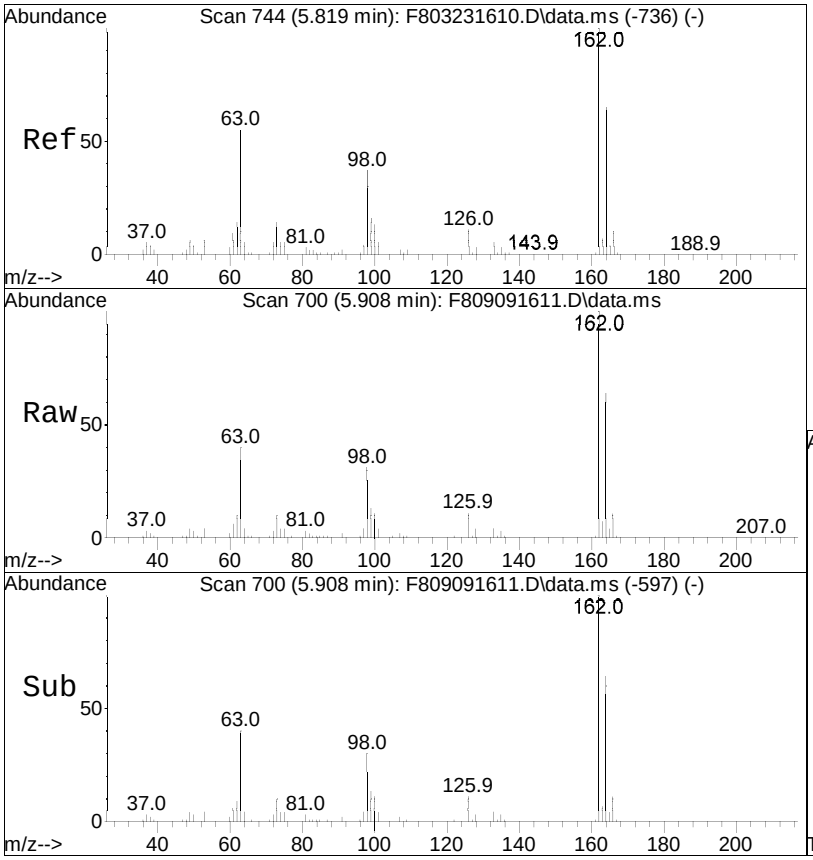


#28
bis(2-Chloroethoxy)methane
Concen: 7.95 ug/mL
RT: 5.802 min Scan# 678
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion: 93 Resp: 446554

Ion	Ratio	Lower	Upper
93	100		
95	33.7	26.7	40.1
123	15.7	11.9	17.9

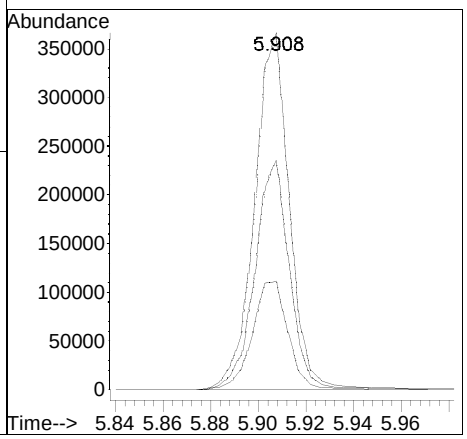


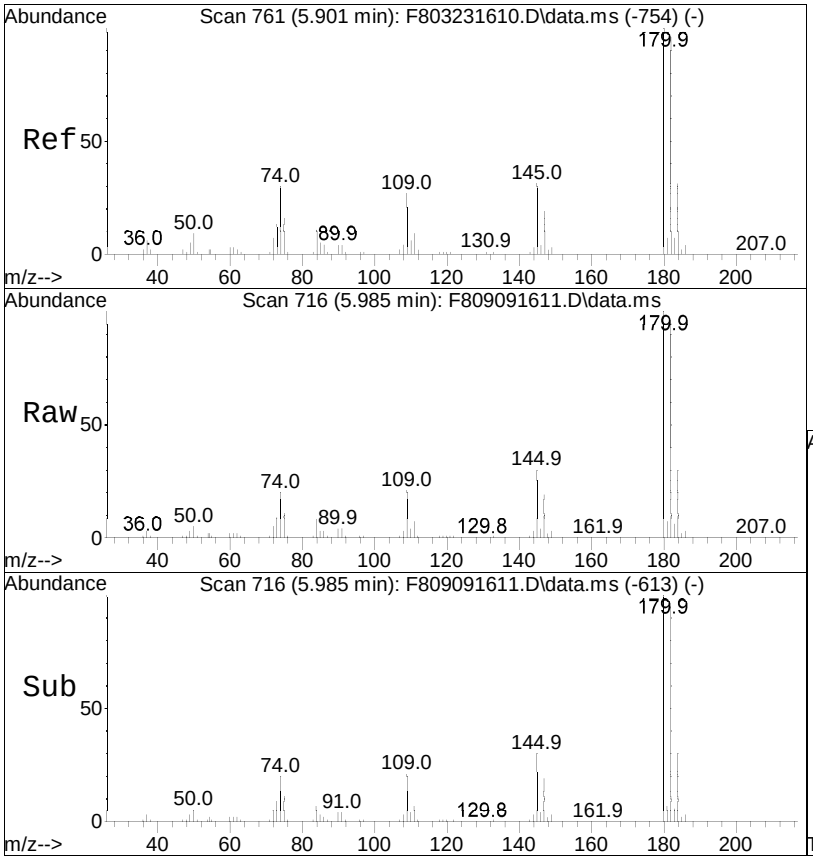


#29
2,4-Dichlorophenol
Concen: 8.04 ug/mL
RT: 5.908 min Scan# 700
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:162 Resp: 368461

Ion	Ratio	Lower	Upper
162	100		
164	64.2	50.8	76.2
98	31.7	26.3	39.5

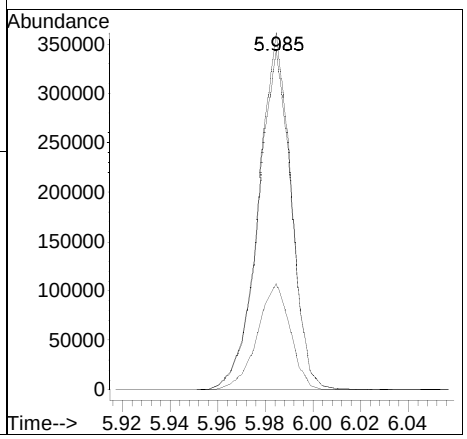


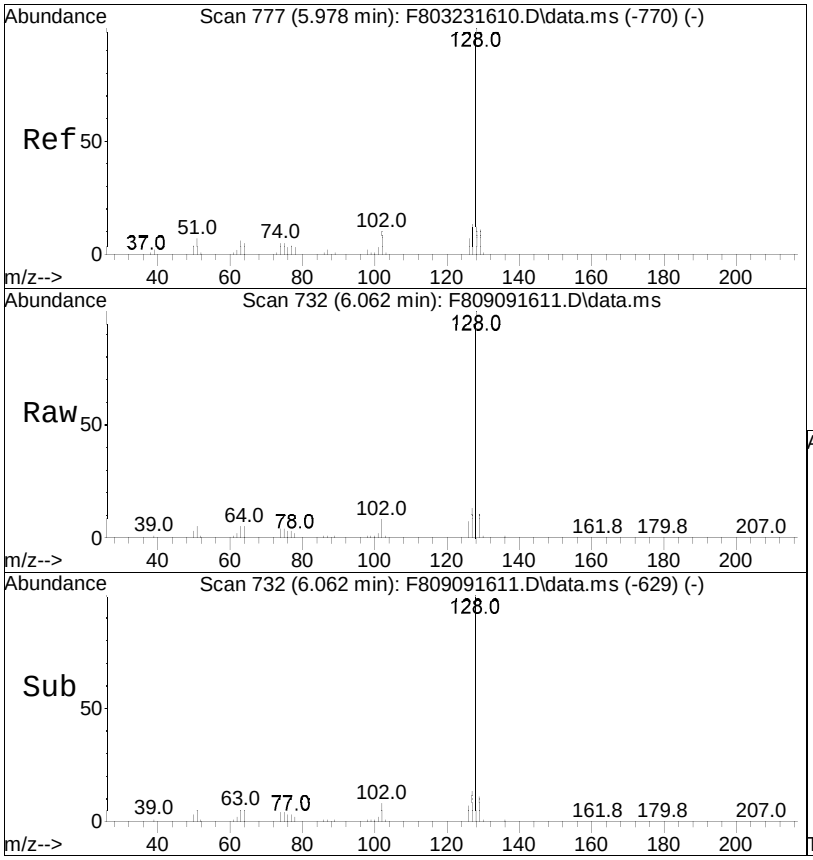


#30
1,2,4-Trichlorobenzene
Concen: 6.95 ug/mL
RT: 5.985 min Scan# 716
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:180 Resp: 346053

Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.2	114.4
145	30.2	23.6	35.4

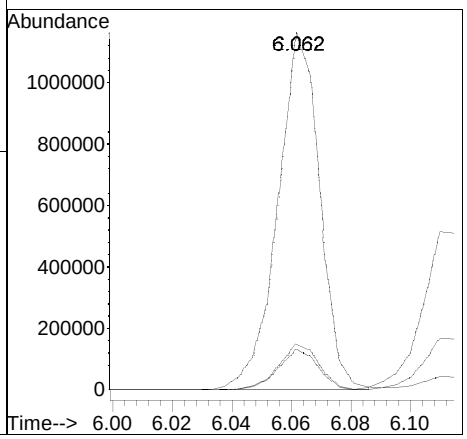


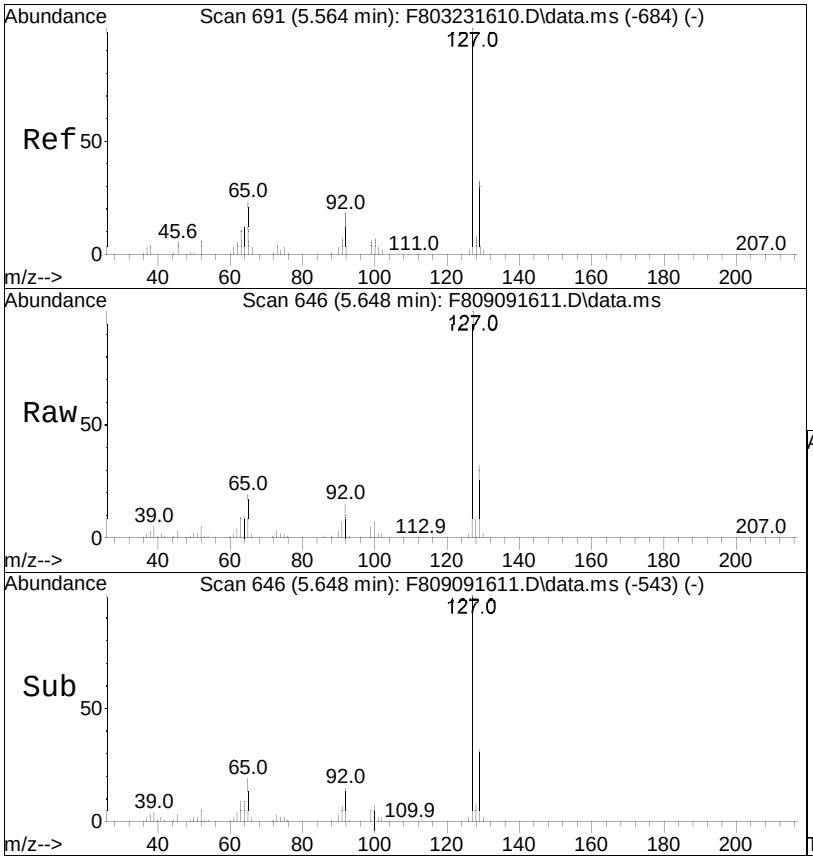


#31
Naphthalene
Concen: 7.08 ug/mL
RT: 6.062 min Scan# 732
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:128 Resp: 1130736

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.4
127	12.9	10.0	15.0

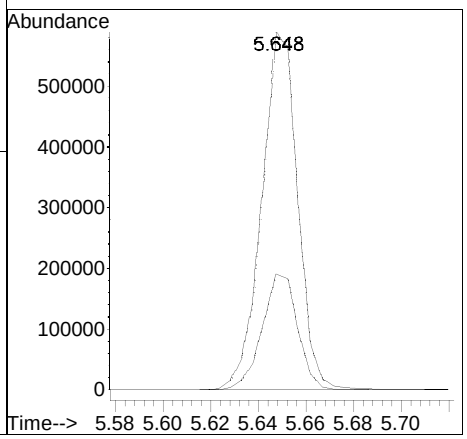


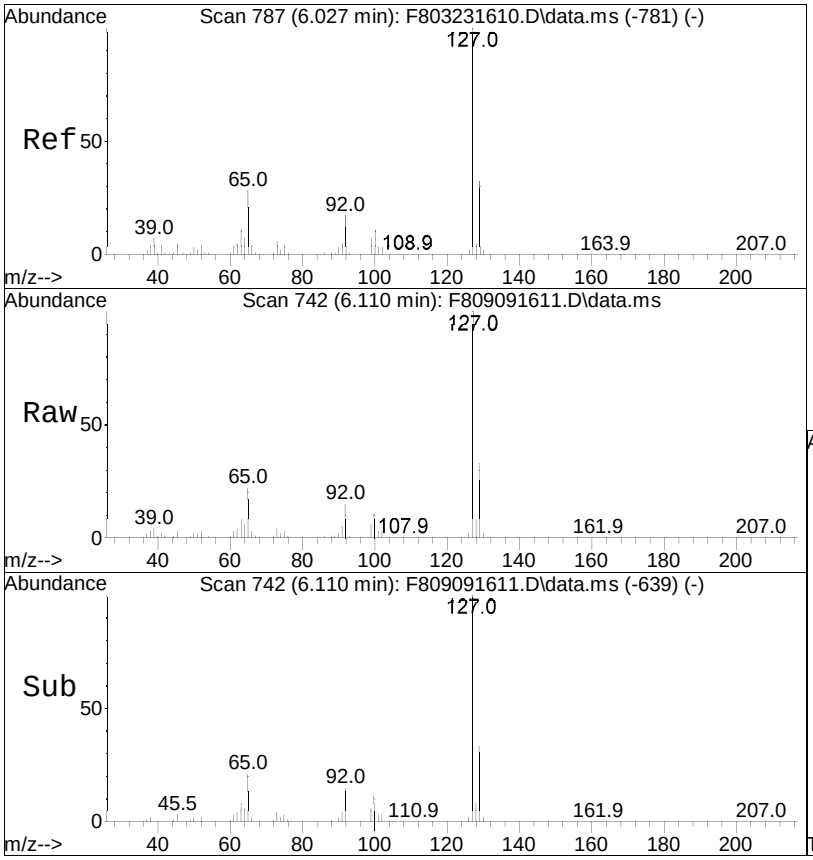


#32
2-Chloroaniline
Concen: 7.59 ug/ml
RT: 5.648 min Scan# 646
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:127 Resp: 611561

Ion	Ratio	Lower	Upper
127	100		
129	32.3	26.2	39.4

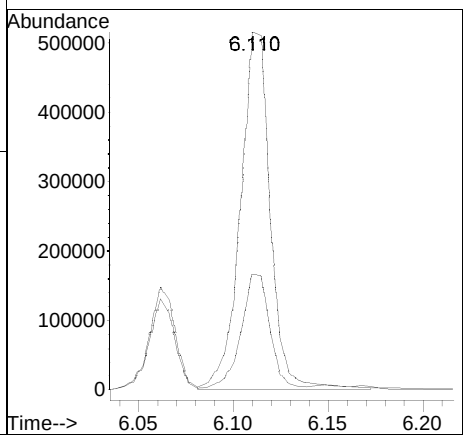


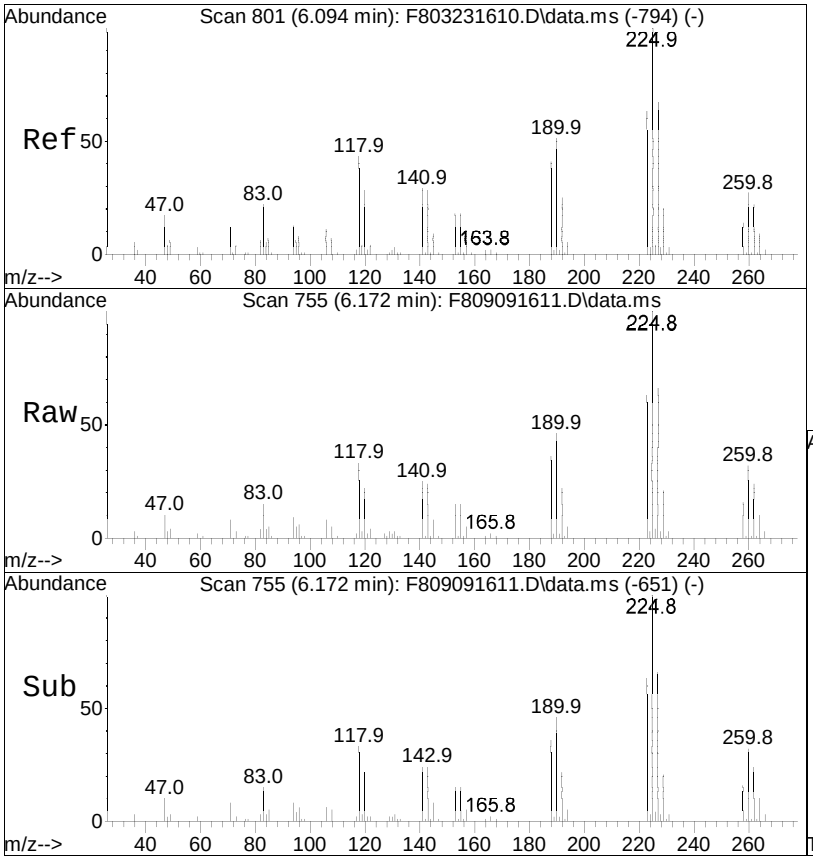


#33
4-Chloroaniline
Concen: 8.11 ug/mL M4
RT: 6.110 min Scan# 742
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:127 Resp: 557651

Ion	Ratio	Lower	Upper
127	100		
129	31.4	25.8	38.6

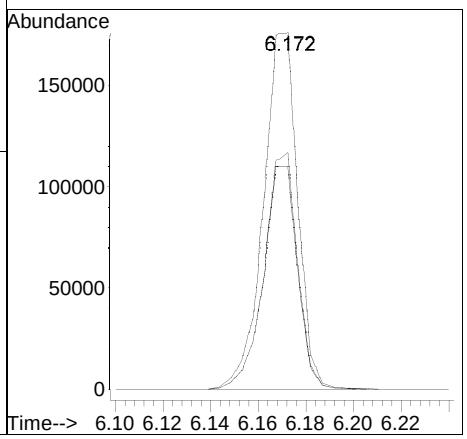


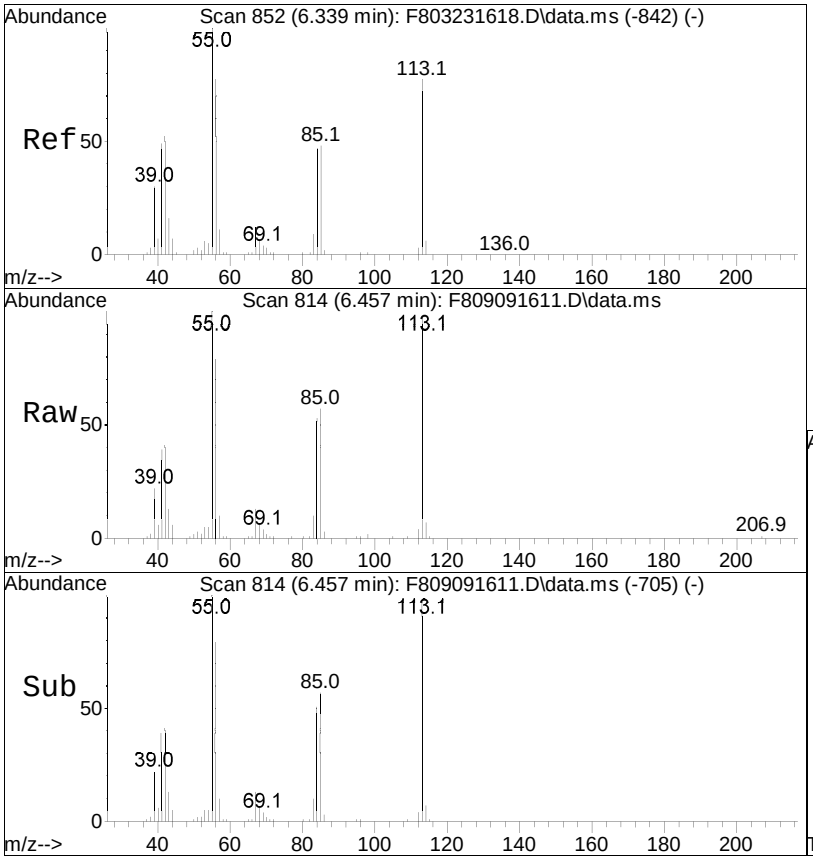


#34
Hexachlorobutadiene
Concen: 6.94 ug/mL
RT: 6.172 min Scan# 755
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:225 Resp: 175667

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.8	76.2
227	64.8	51.1	76.7

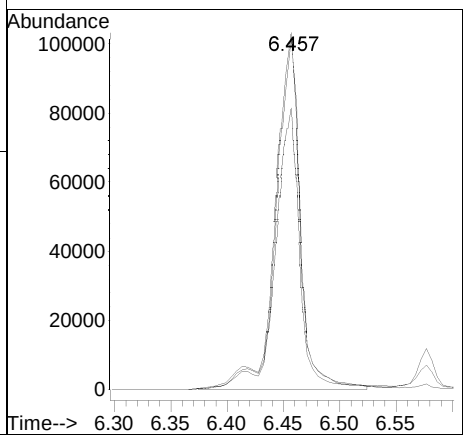


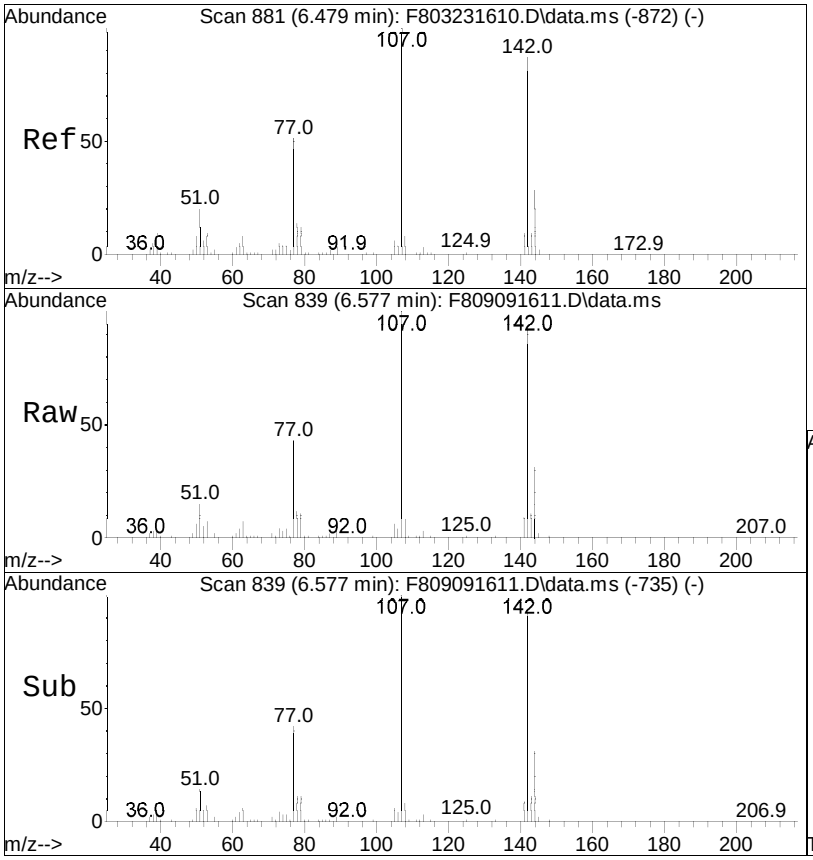


#35
Caprolactam
Concen: 10.20 ug/ml M4
RT: 6.457 min Scan# 814
Delta R.T. 0.024 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:113 Resp: 151463

Ion	Ratio	Lower	Upper
113	100		
55	101.9	82.6	123.8
56	79.3	63.0	94.6

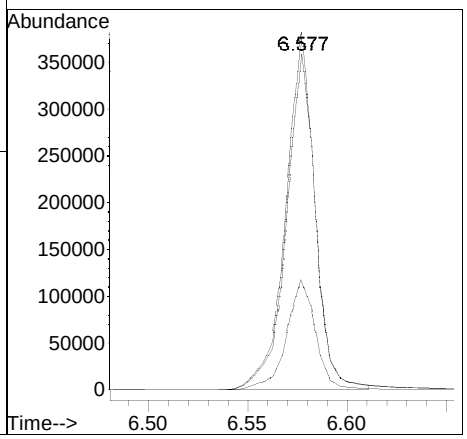


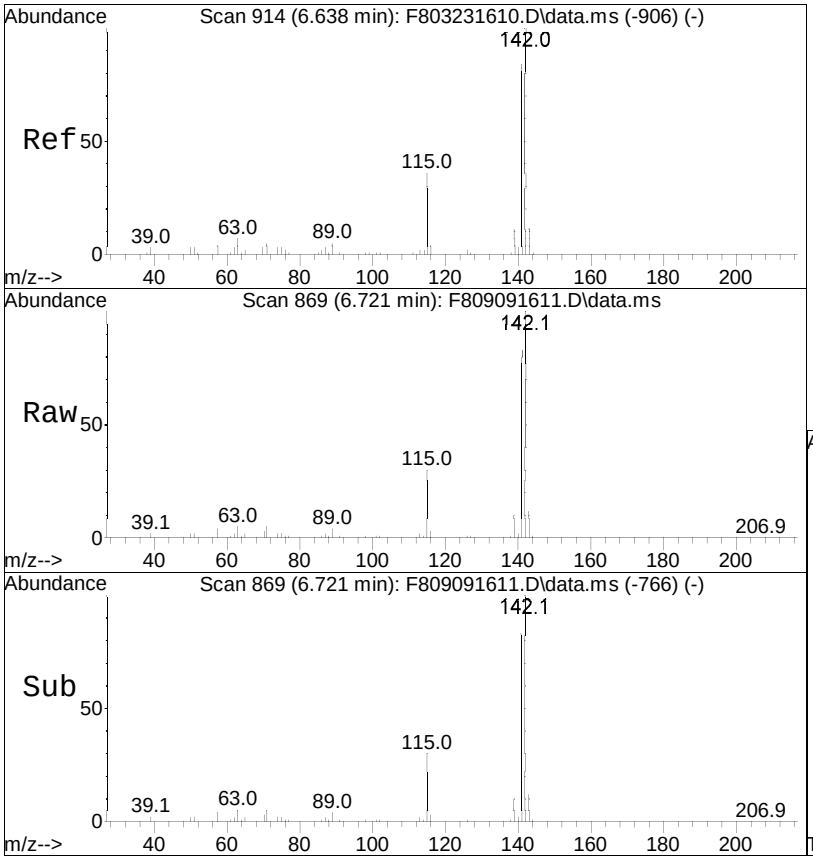


#36
4-Chloro-3-methylphenol
Concen: 8.73 ug/mL
RT: 6.577 min Scan# 839
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:107 Resp: 385671

Ion	Ratio	Lower	Upper
107	100		
144	30.9	24.3	36.5
142	94.4	74.4	111.6

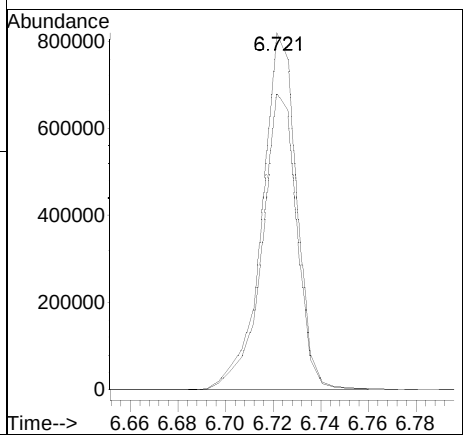


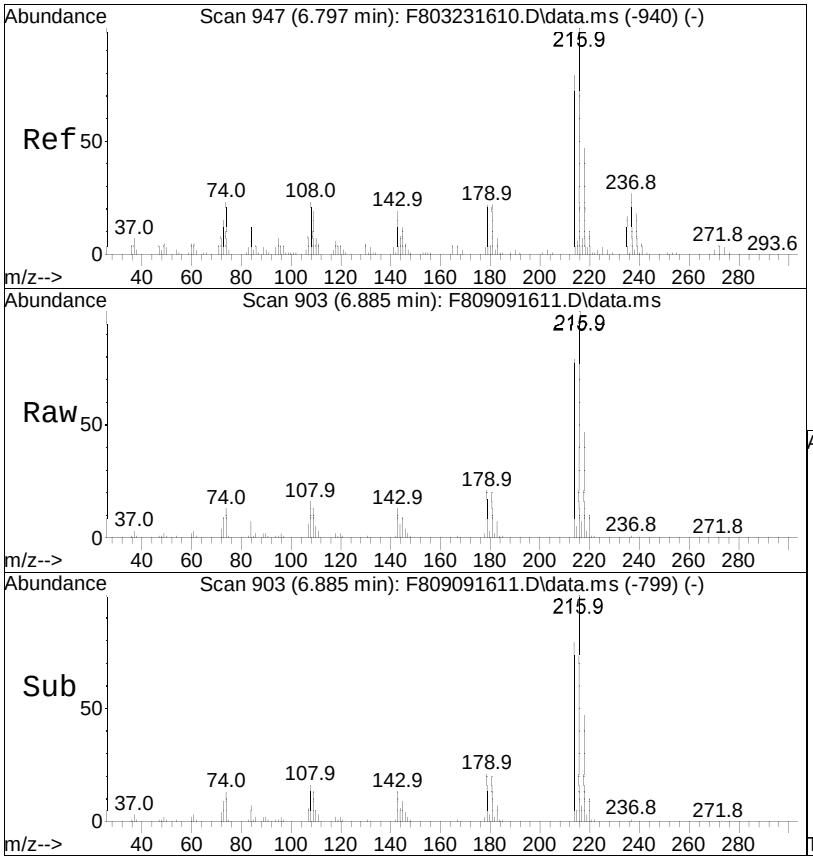


#37
2-Methylnaphthalene
Concen: 7.64 ug/mL
RT: 6.721 min Scan# 869
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:142 Resp: 828205

Ion	Ratio	Lower	Upper
142	100		
141	83.6	66.6	100.0

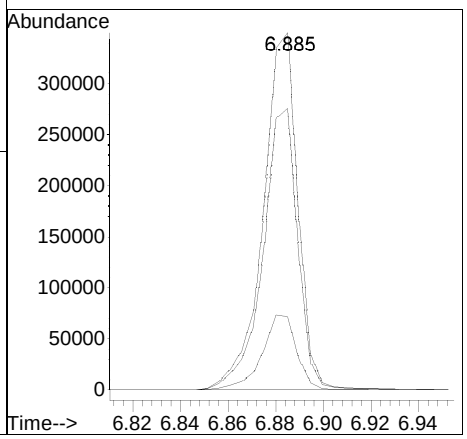


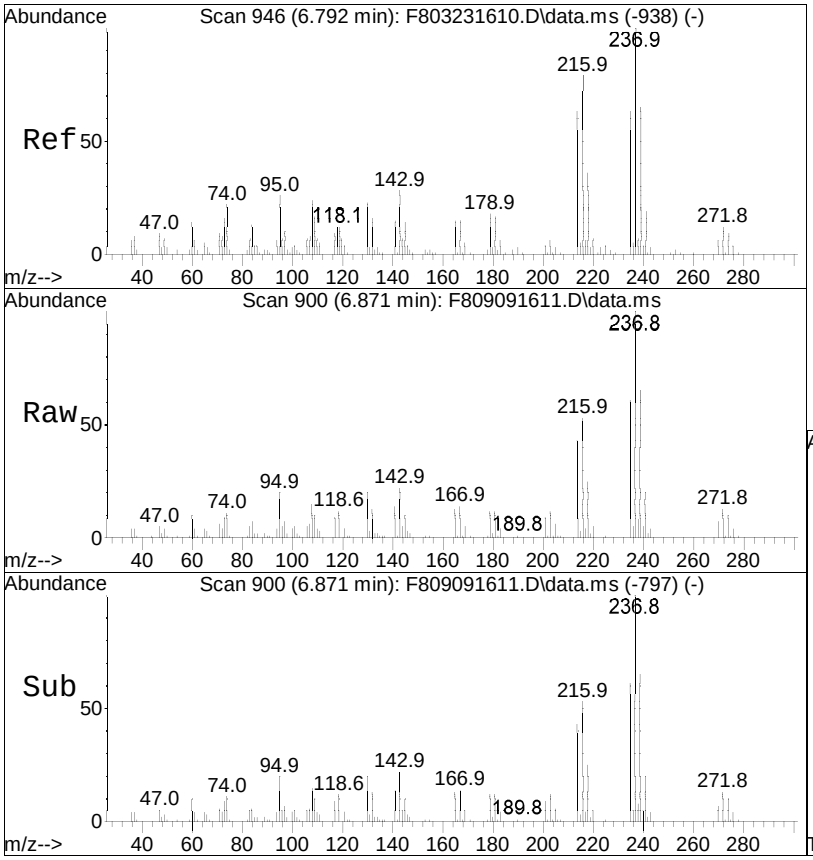


#39
1,2,4,5-Tetrachlorobenzene
Concen: 7.78 ug/mL
RT: 6.885 min Scan# 903
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:216 Resp: 354537

Ion	Ratio	Lower	Upper
216	100		
214	78.8	63.0	94.6
179	21.0	16.2	24.4

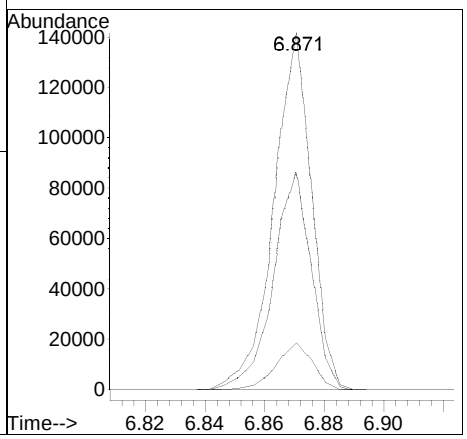


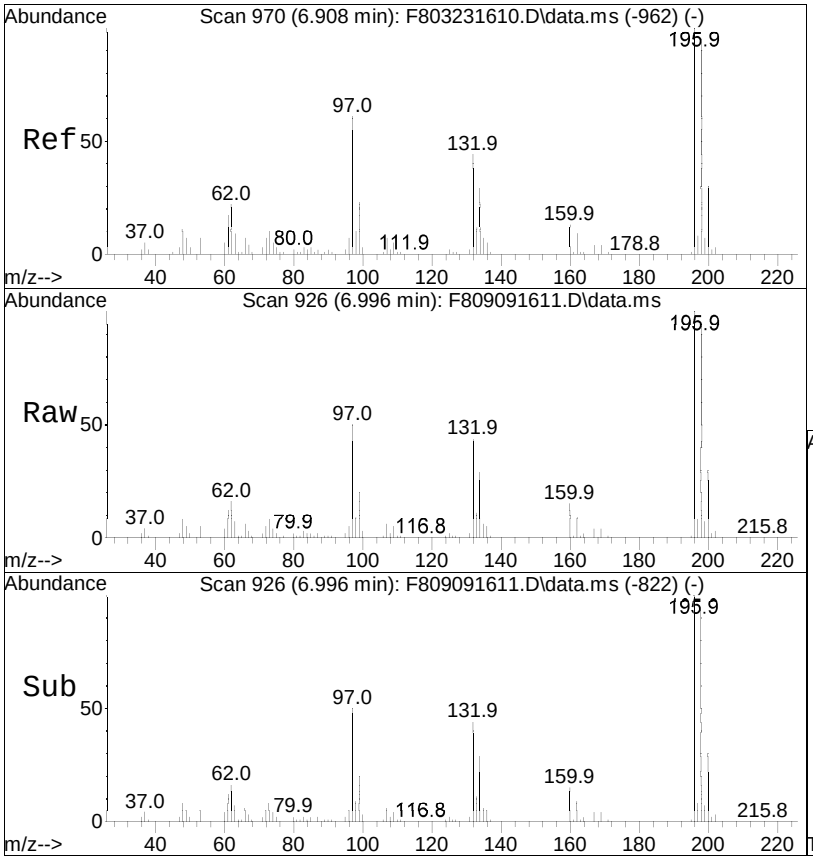


#40
Hexachlorocyclopentadiene
Concen: 6.26 ug/mL
RT: 6.871 min Scan# 900
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:237 Resp: 124297

Ion	Ratio	Lower	Upper
237	100		
235	61.9	53.3	79.9
272	13.1	10.9	16.3

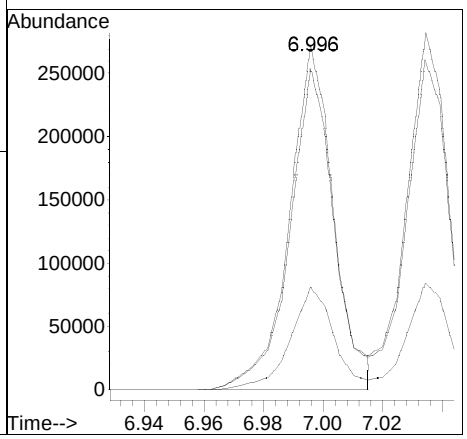


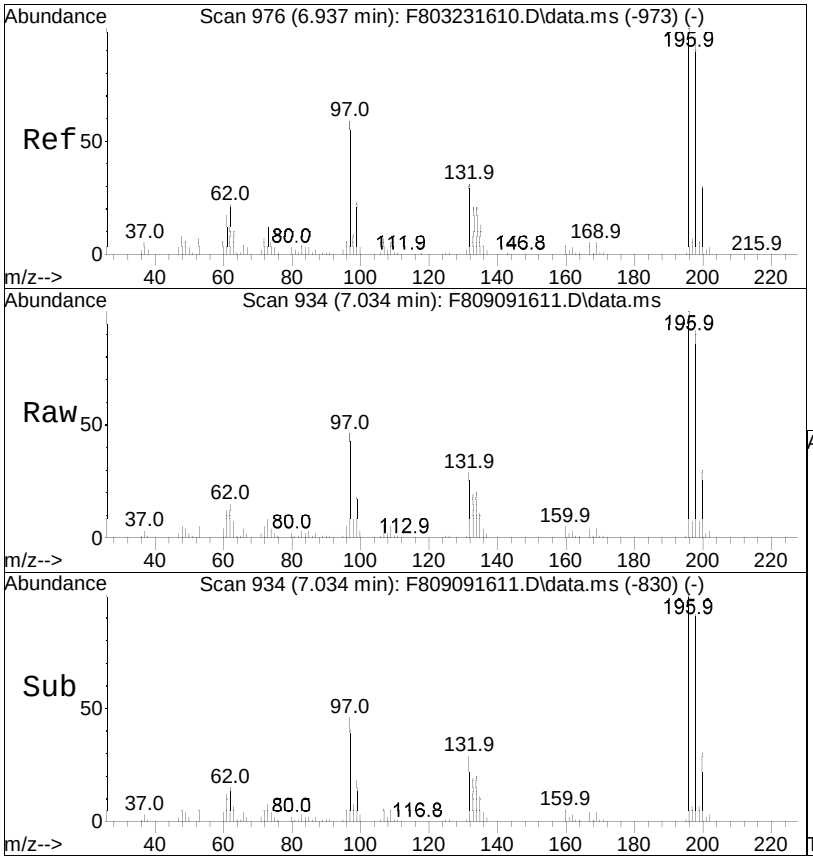


#41
2,4,6-Trichlorophenol
Concen: 8.58 ug/mL
RT: 6.996 min Scan# 926
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:196 Resp: 281569

Ion	Ratio	Lower	Upper
196	100		
198	93.3	73.6	110.4
200	29.7	23.5	35.3

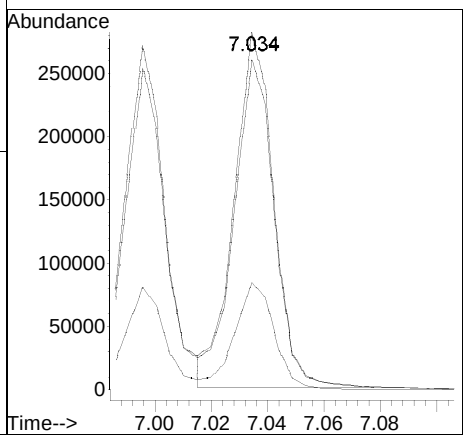


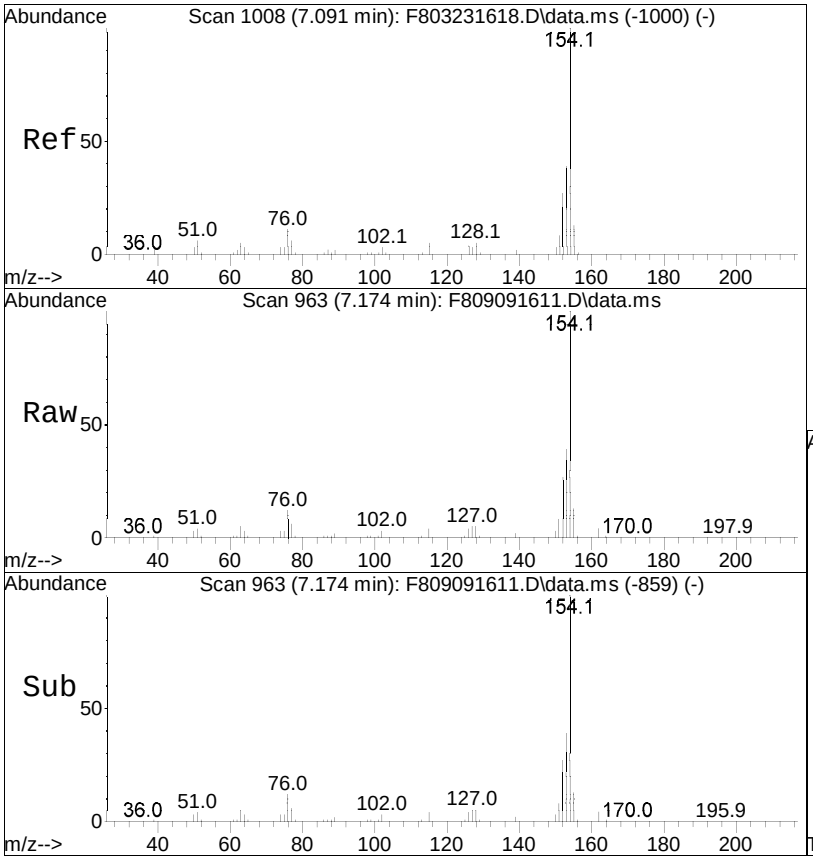


#42
2,4,5-Trichlorophenol
Concen: 9.36 ug/mL M6
RT: 7.034 min Scan# 934
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:196 Resp: 273176

Ion	Ratio	Lower	Upper
196	100		
198	93.6	73.2	109.8
200	30.2	23.9	35.9

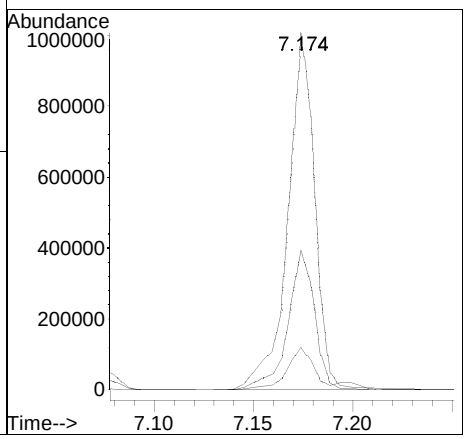


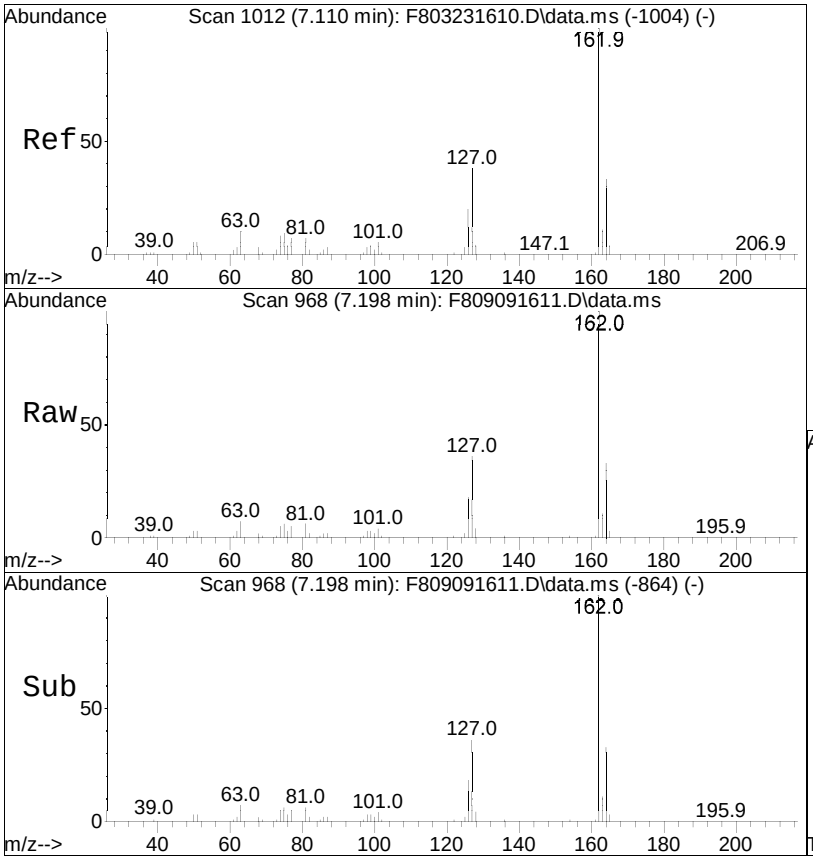


#44
Biphenyl
Concen: 7.45 ug/ml
RT: 7.174 min Scan# 963
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:154 Resp: 940086

Ion	Ratio	Lower	Upper
154	100		
153	39.2	31.4	47.0
76	13.9	9.8	14.6

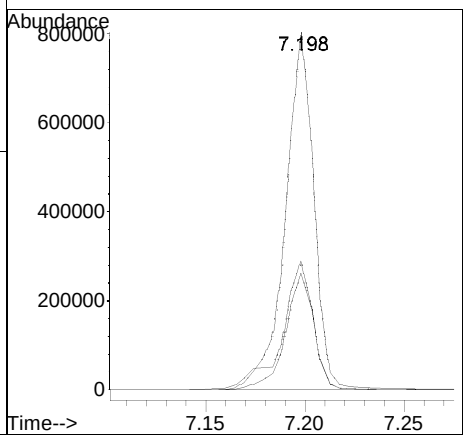


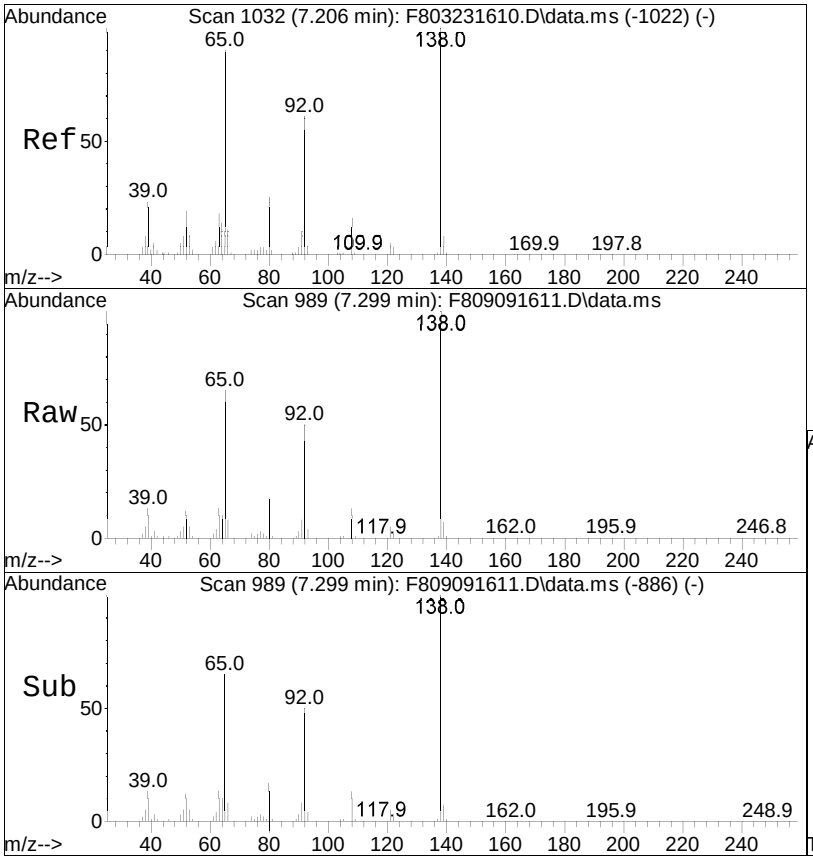


#45
2-Chloronaphthalene
Concen: 8.02 ug/mL
RT: 7.198 min Scan# 968
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:162 Resp: 791948

Ion	Ratio	Lower	Upper
162	100		
164	32.8	26.4	39.6
127	39.3	30.2	45.2

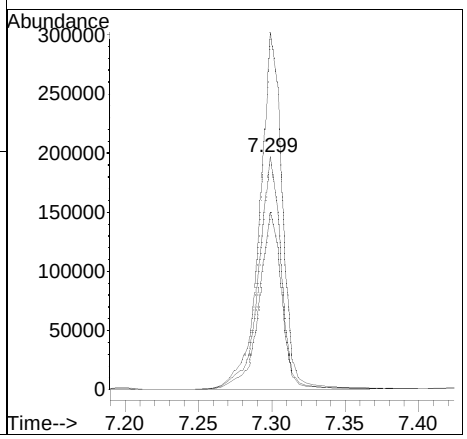


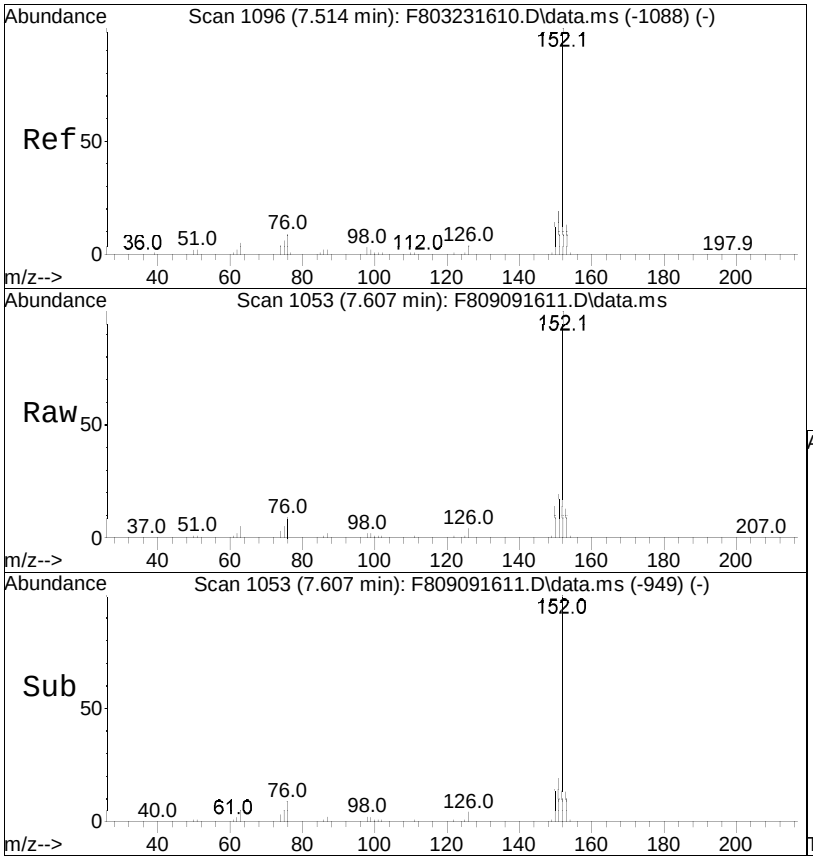


#46
2-Nitroaniline
Concen: 9.13 ug/mL M4
RT: 7.299 min Scan# 989
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion: 65 Resp: 208481

Ion	Ratio	Lower	Upper
65	100		
92	72.7	61.0	91.4
138	146.8	122.0	183.0

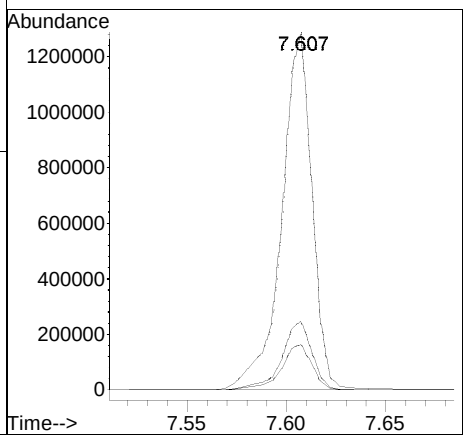


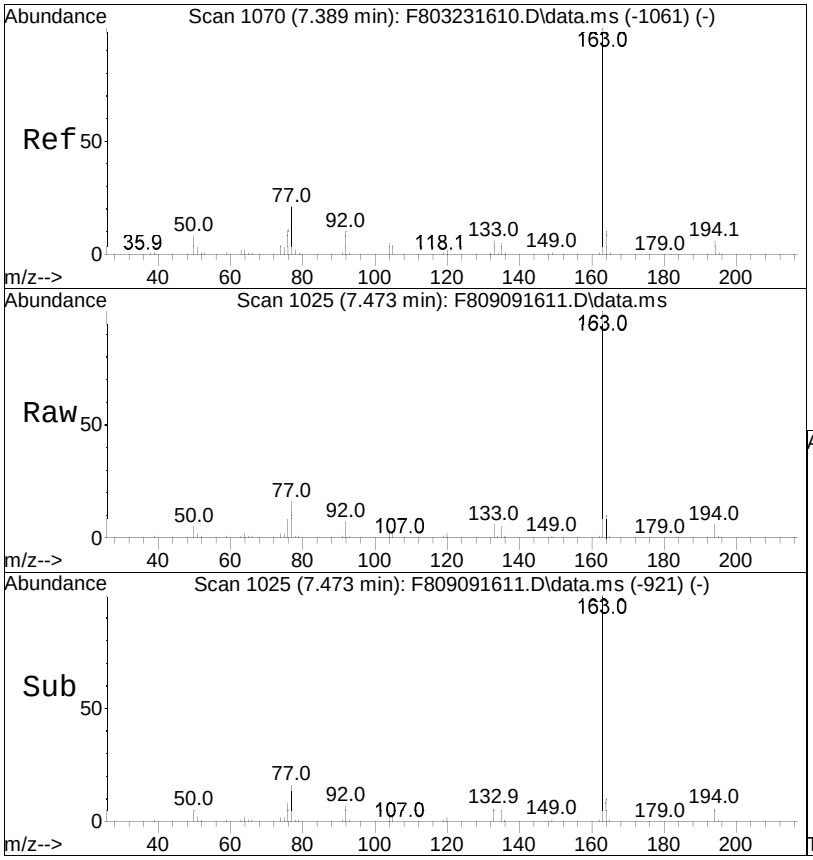


#47
Acenaphthylene
Concen: 8.29 ug/mL
RT: 7.607 min Scan# 1053
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:152 Resp: 1353303

Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.8	23.8
153	12.9	10.6	16.0

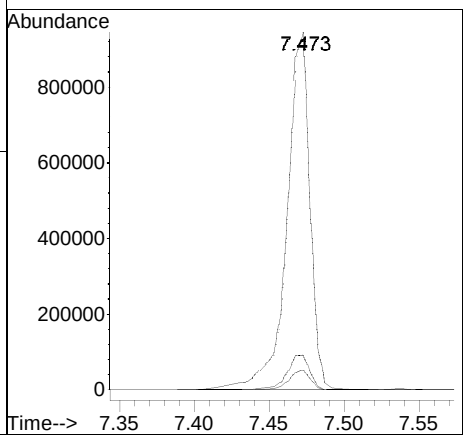


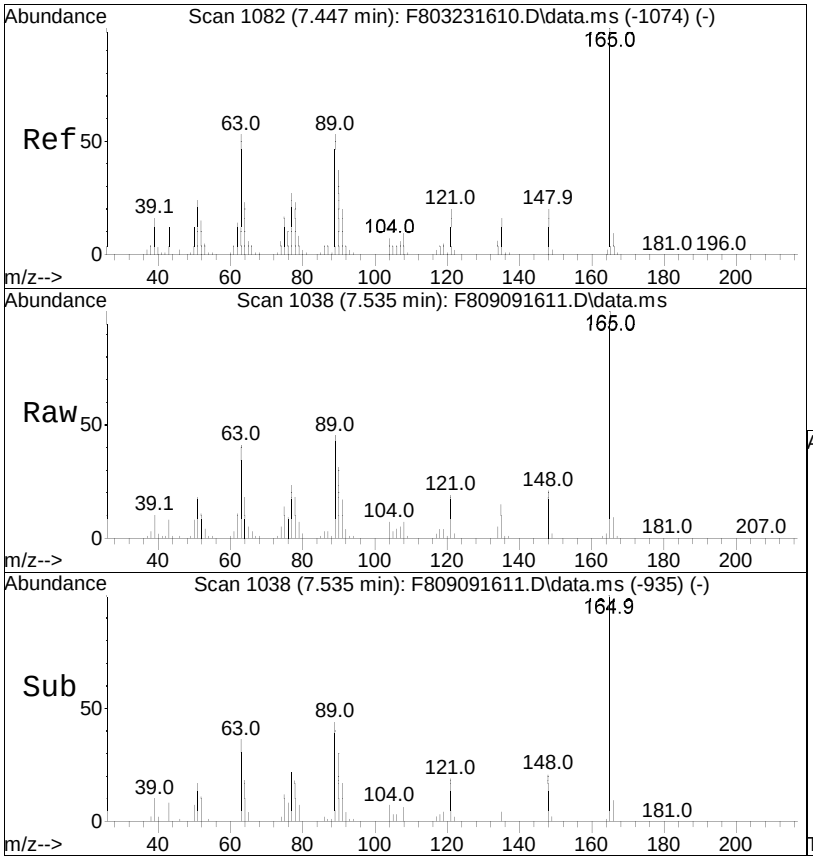


#48
Dimethylphthalate
Concen: 9.37 ug/mL M4
RT: 7.473 min Scan# 1025
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:163 Resp: 995332

Ion	Ratio	Lower	Upper
163	100		
194	5.4	4.4	6.6
164	9.7	8.3	12.5

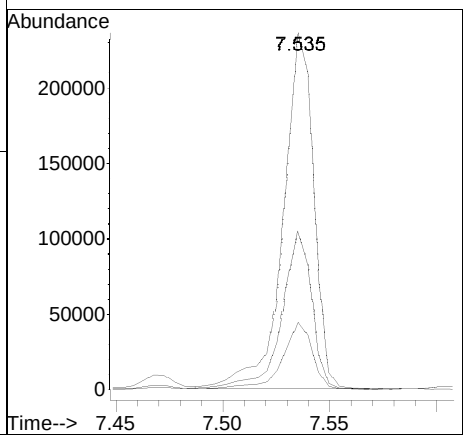


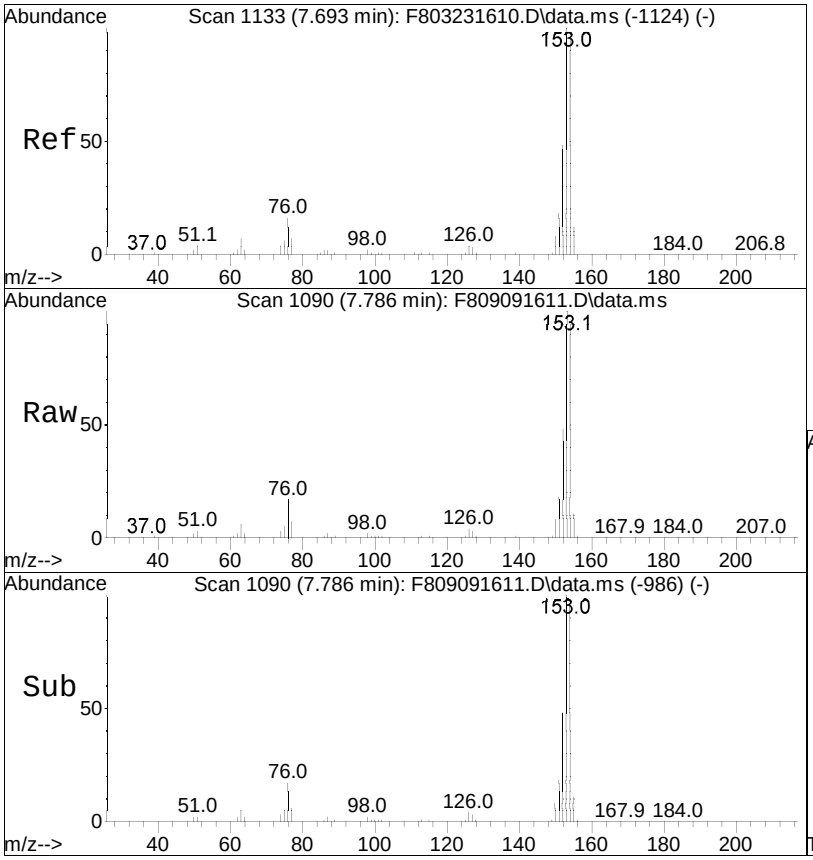


#49
2,6-Dinitrotoluene
Concen: 9.53 ug/mL M4
RT: 7.535 min Scan# 1038
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:165 Resp: 235185

Ion	Ratio	Lower	Upper
165	100		
89	42.5	40.5	60.7
121	18.4	16.6	25.0

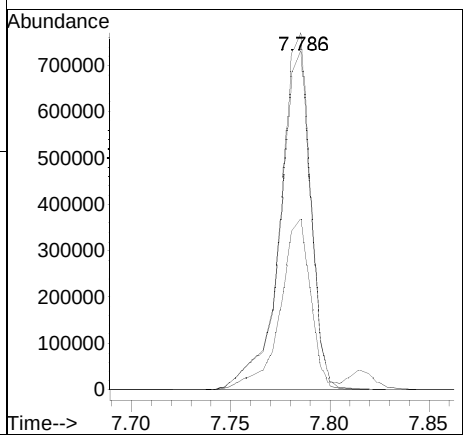


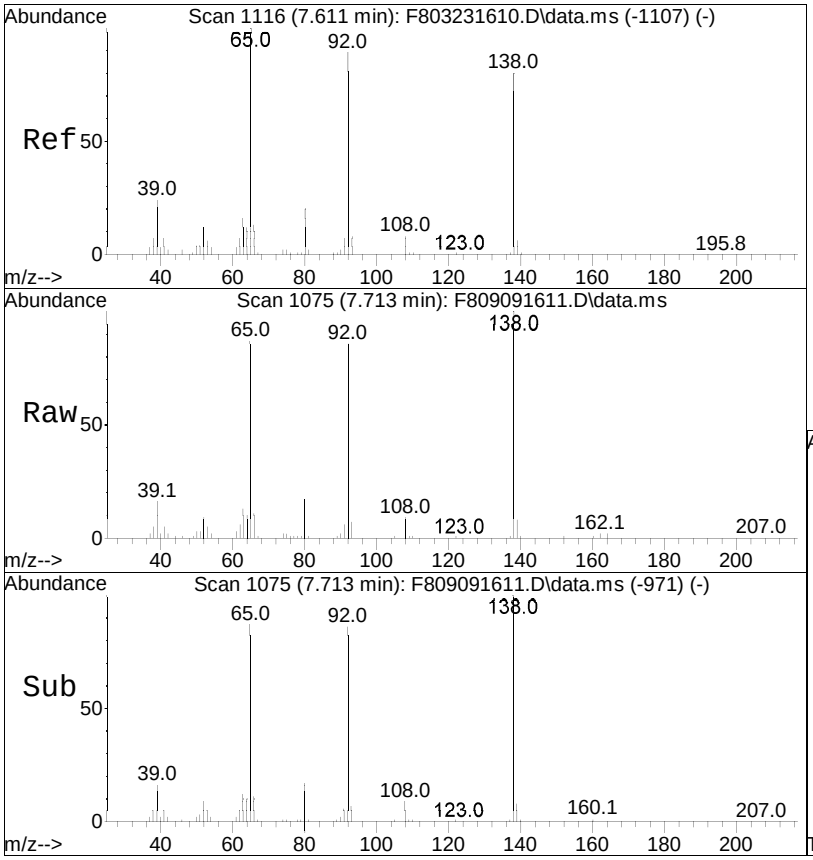


#50
Acenaphthene
Concen: 8.34 ug/mL
RT: 7.786 min Scan# 1090
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:153 Resp: 828100

Ion	Ratio	Lower	Upper
153	100		
154	95.5	75.4	113.0
152	47.3	39.3	58.9

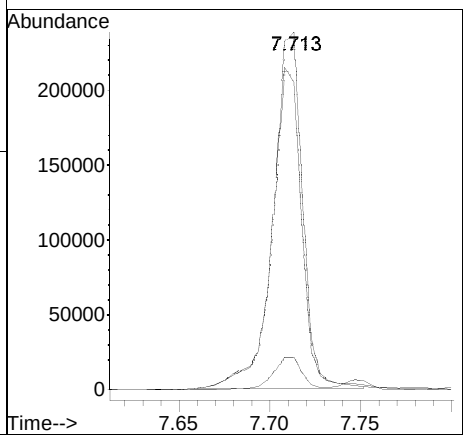


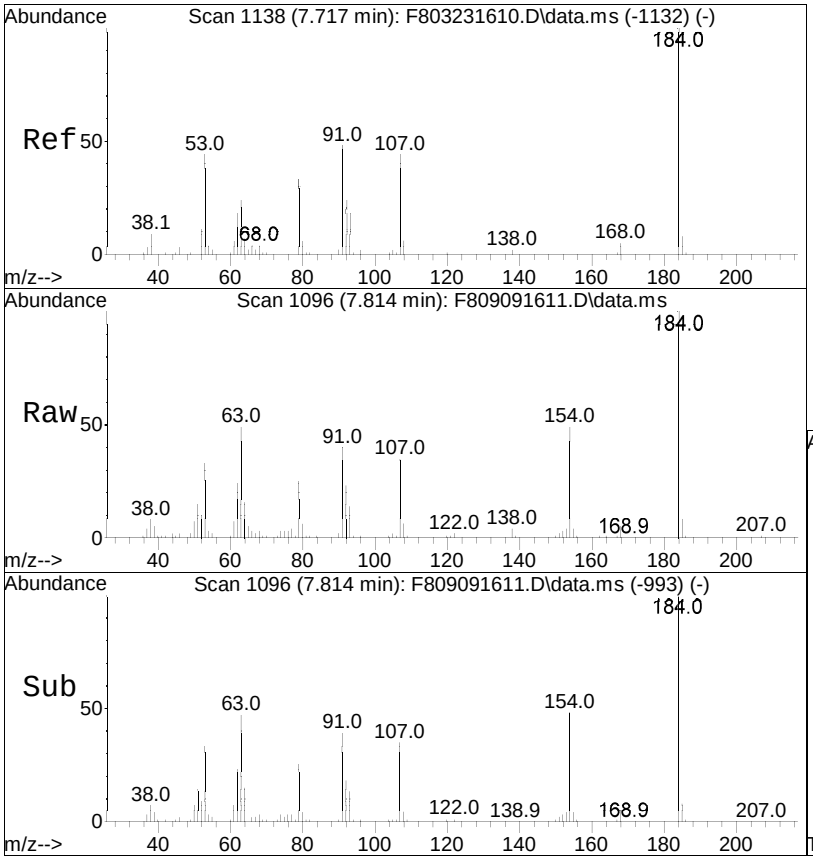


#51
3-Nitroaniline
Concen: 9.32 ug/mL M4
RT: 7.713 min Scan# 1075
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:138 Resp: 263159

Ion	Ratio	Lower	Upper
138	100		
108	9.0	8.9	13.3
92	84.7	72.2	108.4

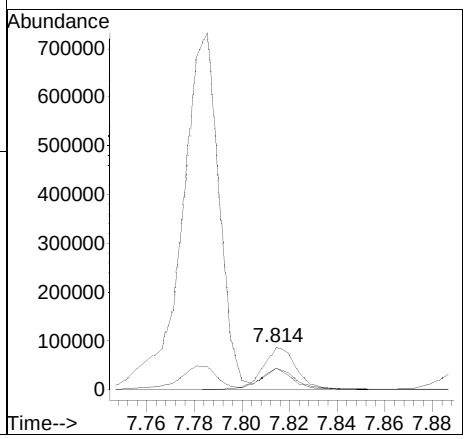


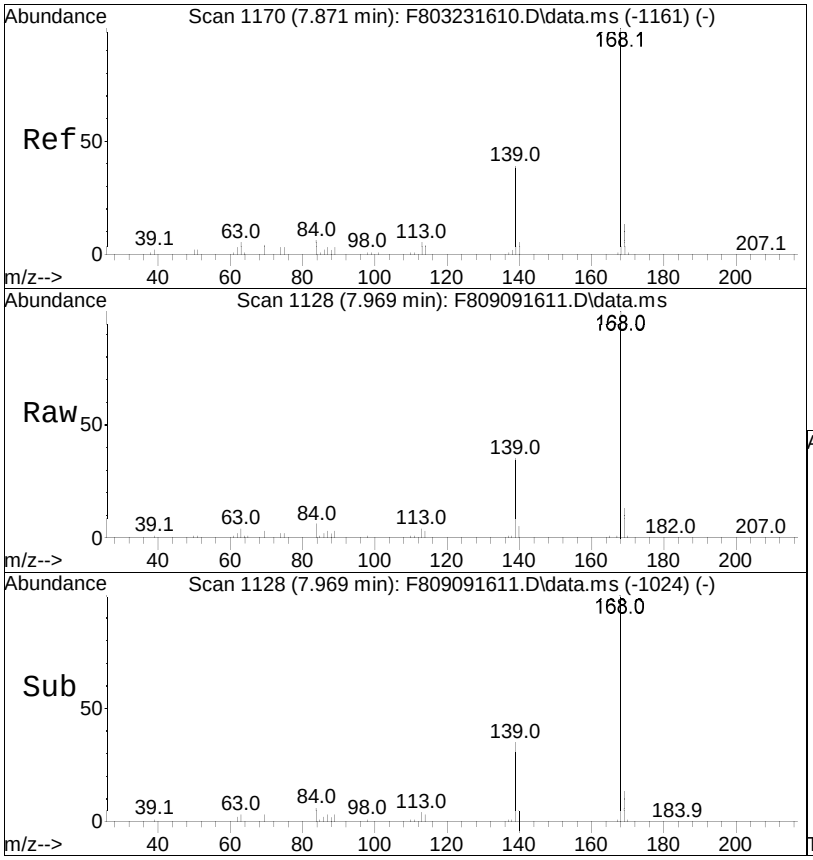


#52
2,4-Dinitrophenol
Concen: 7.81 ug/mL
RT: 7.814 min Scan# 1096
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:184 Resp: 85026

Ion	Ratio	Lower	Upper
184	100		
63	44.8	43.8	65.6
154	0.0	37.1	55.7#

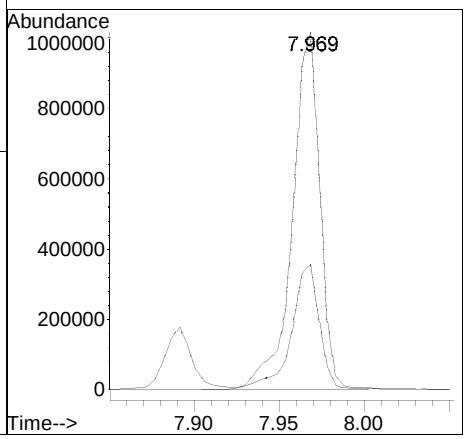


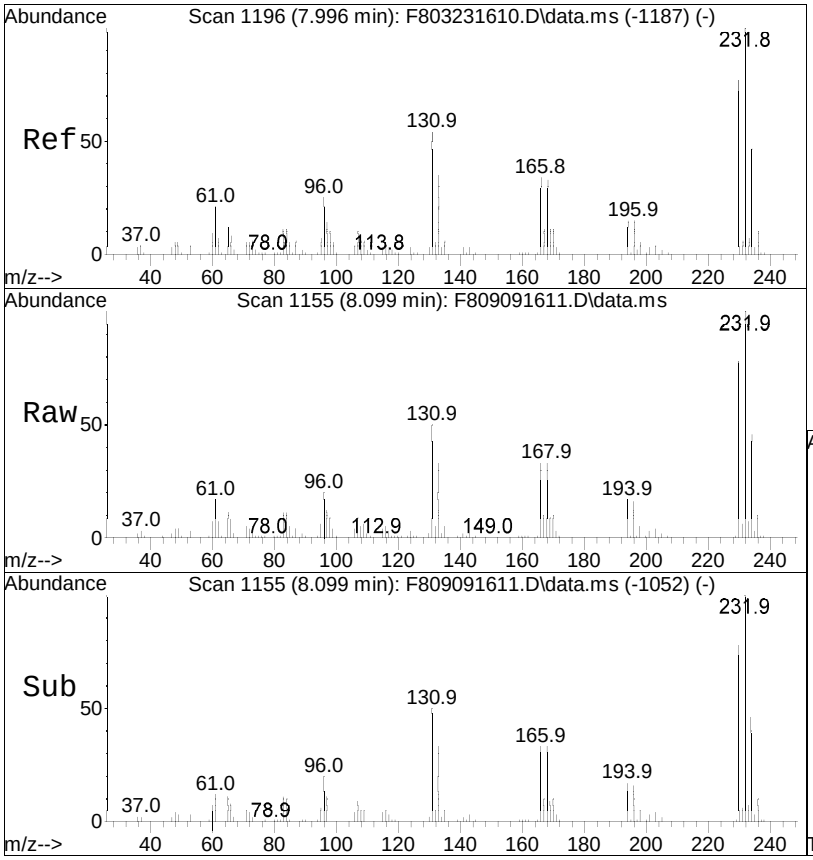


#53
Dibenzofuran
Concen: 8.79 ug/mL
RT: 7.969 min Scan# 1128
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:168 Resp: 1139506

Ion	Ratio	Lower	Upper
168	100		
139	35.1	28.8	43.2

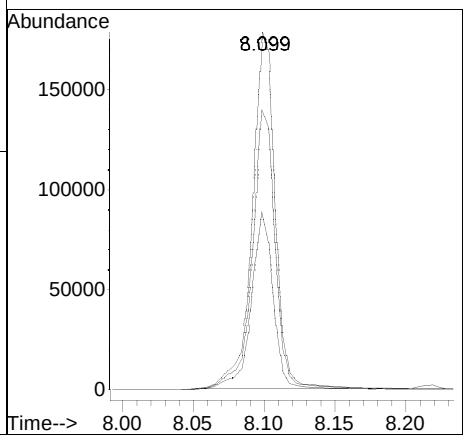


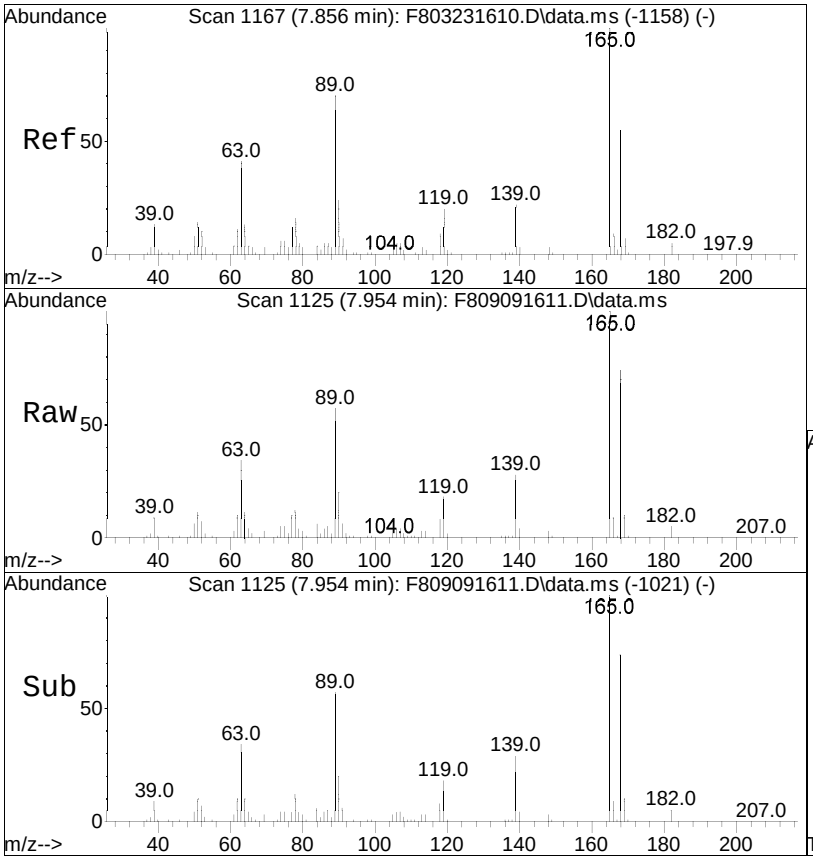


#54
2,3,4,6-Tetrachlorophenol
Concen: 10.12 ug/mL M4
RT: 8.099 min Scan# 1155
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:232 Resp: 199096

Ion	Ratio	Lower	Upper
232	100		
131	45.9	43.1	64.7
230	74.3	63.0	94.6

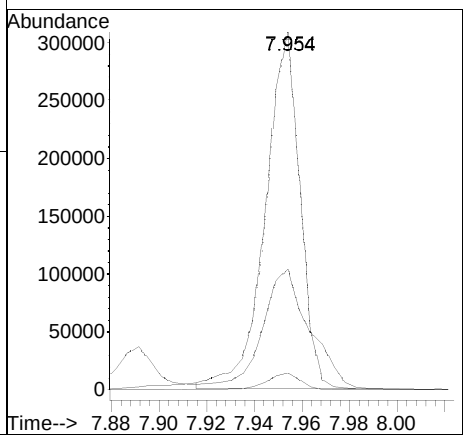


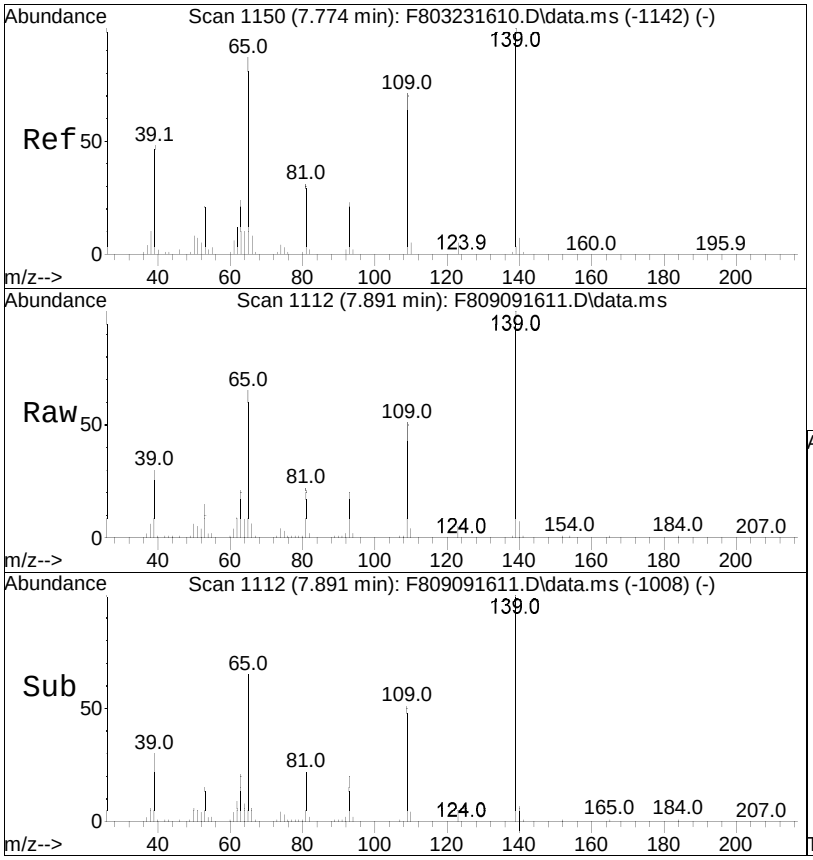


#55
2,4-Dinitrotoluene
Concen: 9.74 ug/mL
RT: 7.954 min Scan# 1125
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:165 Resp: 308344

Ion	Ratio	Lower	Upper
165	100		
63	46.2	30.9	46.3
182	4.8	3.5	5.3

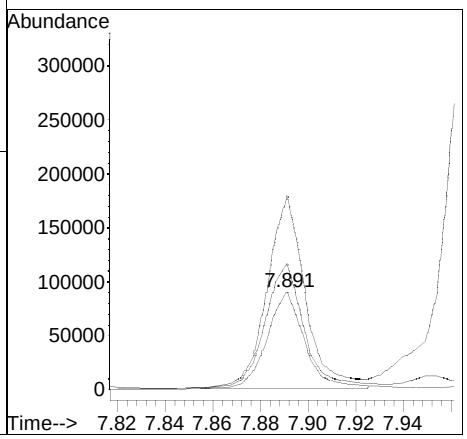


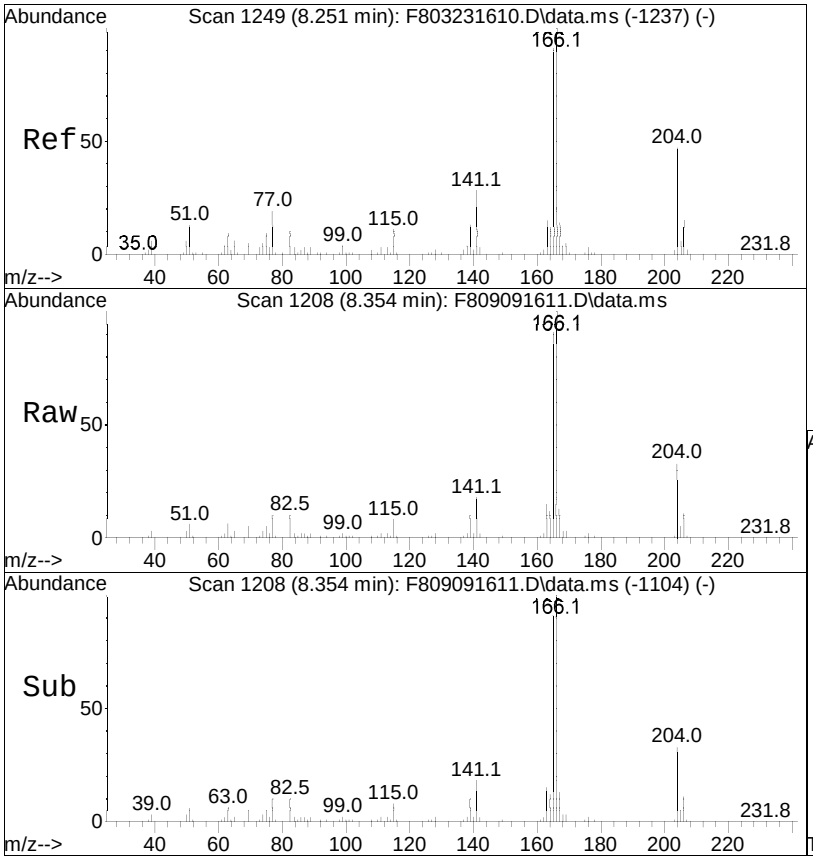


#56
4-Nitrophenol
Concen: 9.29 ug/mL
RT: 7.891 min Scan# 1112
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:109 Resp: 99300

Ion	Ratio	Lower	Upper
109	100		
139	197.7	149.7	224.5
65	133.9	107.3	160.9

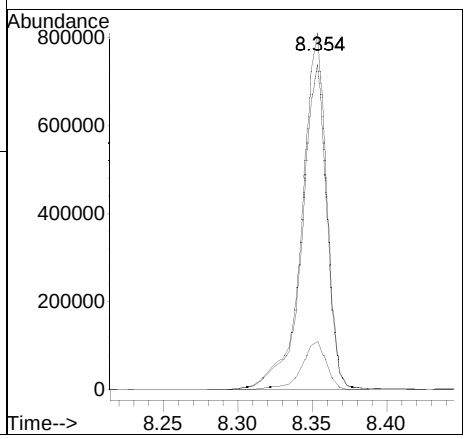


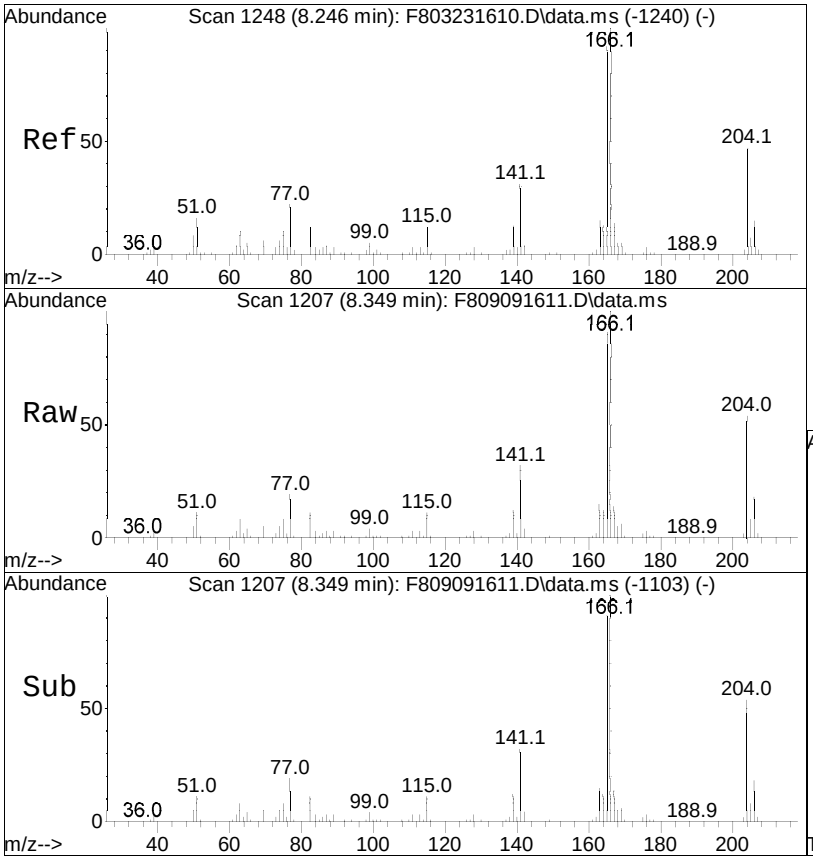


#57
Fluorene
Concen: 8.86 ug/mL
RT: 8.354 min Scan# 1208
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:166 Resp: 946870

Ion	Ratio	Lower	Upper
166	100		
165	91.0	72.9	109.3
167	13.7	10.9	16.3

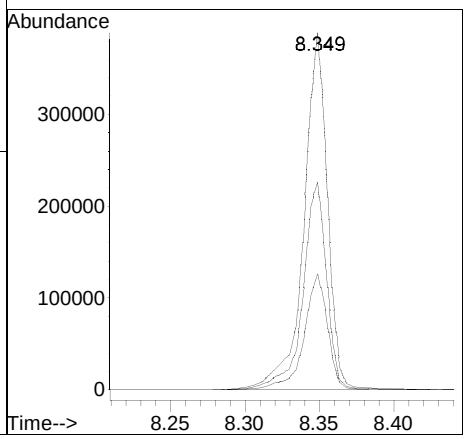


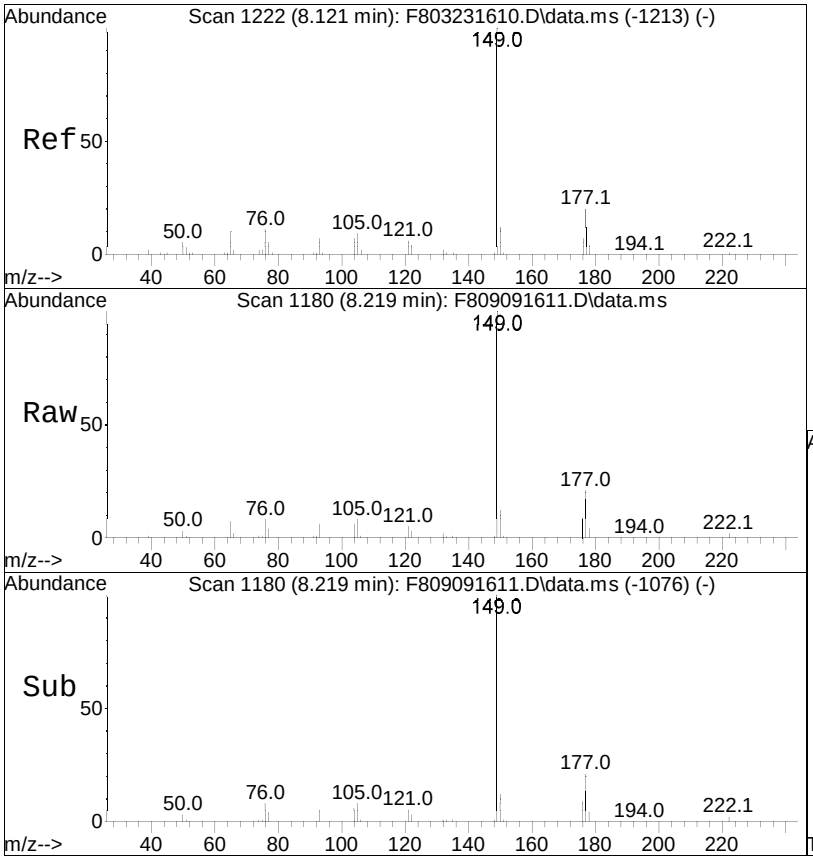


#58
4-Chlorophenyl-phenylether
Concen: 8.99 ug/mL
RT: 8.349 min Scan# 1207
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:204 Resp: 429784

Ion	Ratio	Lower	Upper
204	100		
206	32.6	25.9	38.9
141	58.6	46.2	69.4

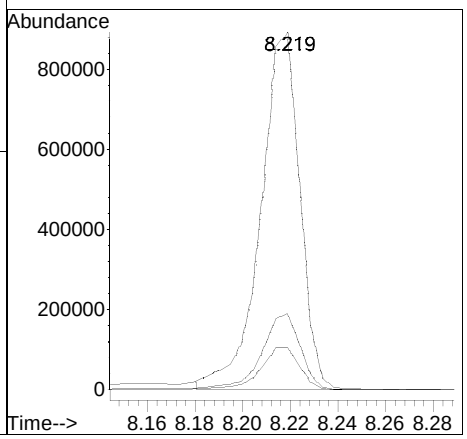


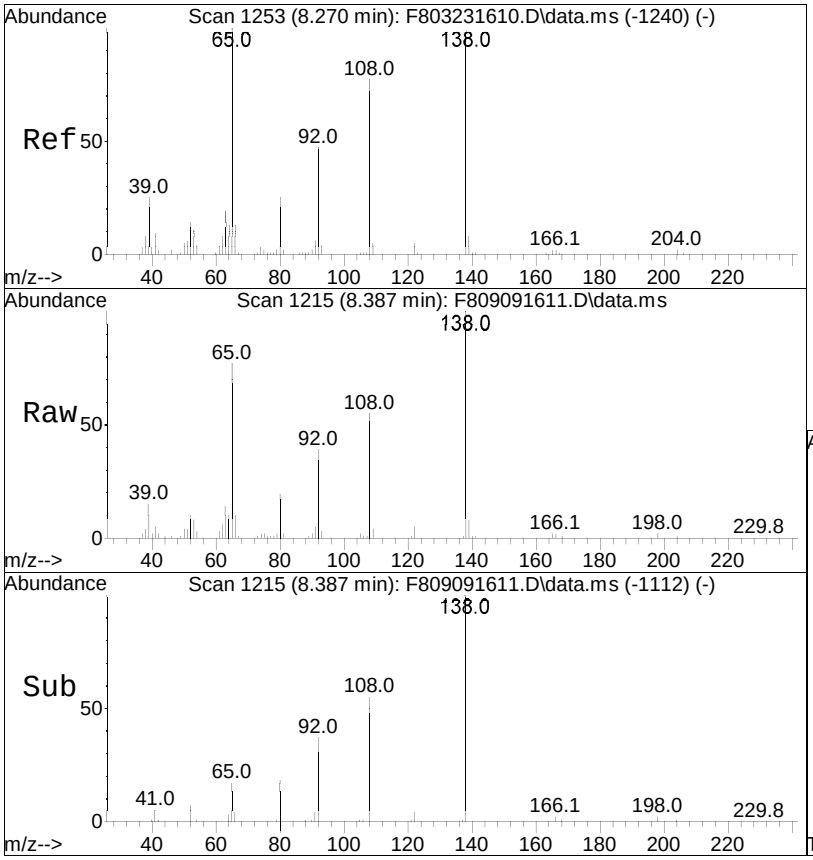


#59
Diethylphthalate
Concen: 9.25 ug/mL
RT: 8.219 min Scan# 1180
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:149 Resp: 1004487

Ion	Ratio	Lower	Upper
149	100		
177	21.1	16.6	24.8
150	12.0	9.8	14.6

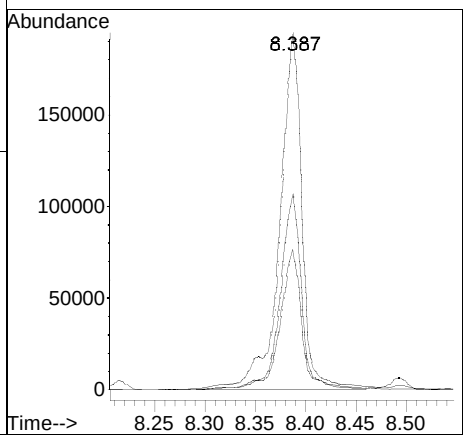


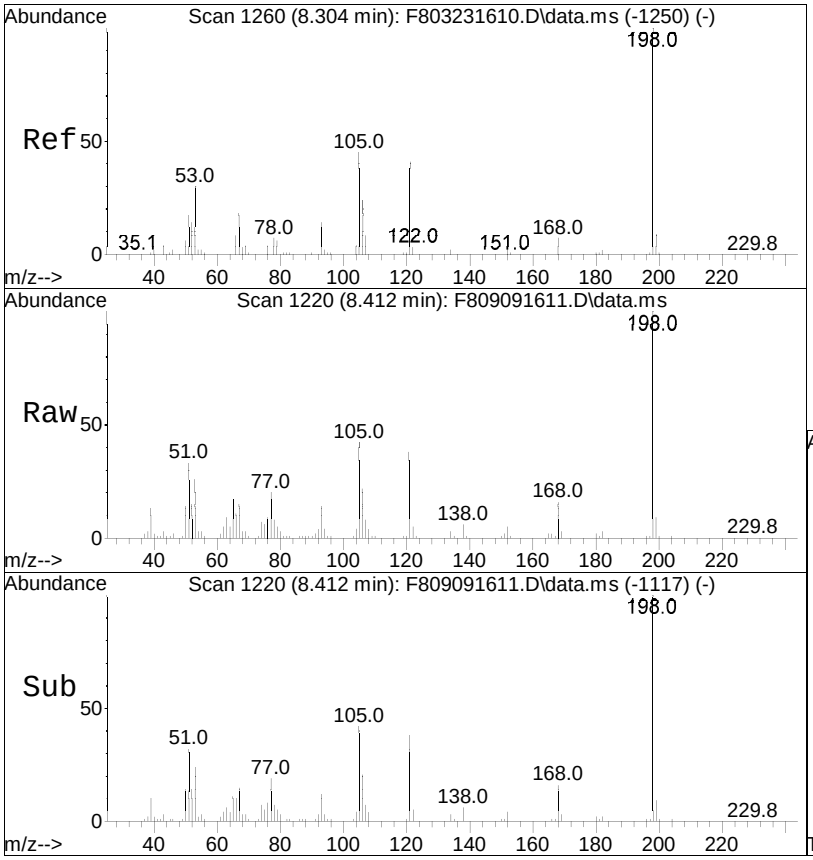


#60
4-Nitroaniline
Concen: 10.11 ug/mL M4
RT: 8.387 min Scan# 1215
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:138 Resp: 294710

Ion	Ratio	Lower	Upper
138	100		
92	40.0	32.7	49.1
108	52.8	45.8	68.6

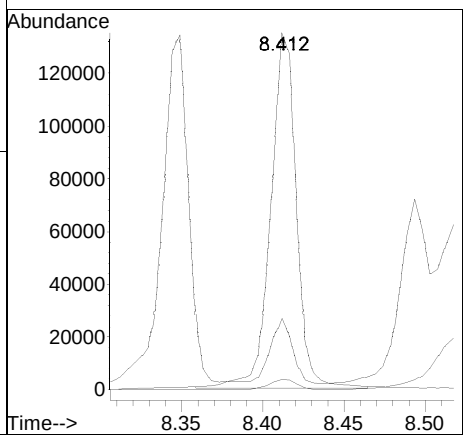


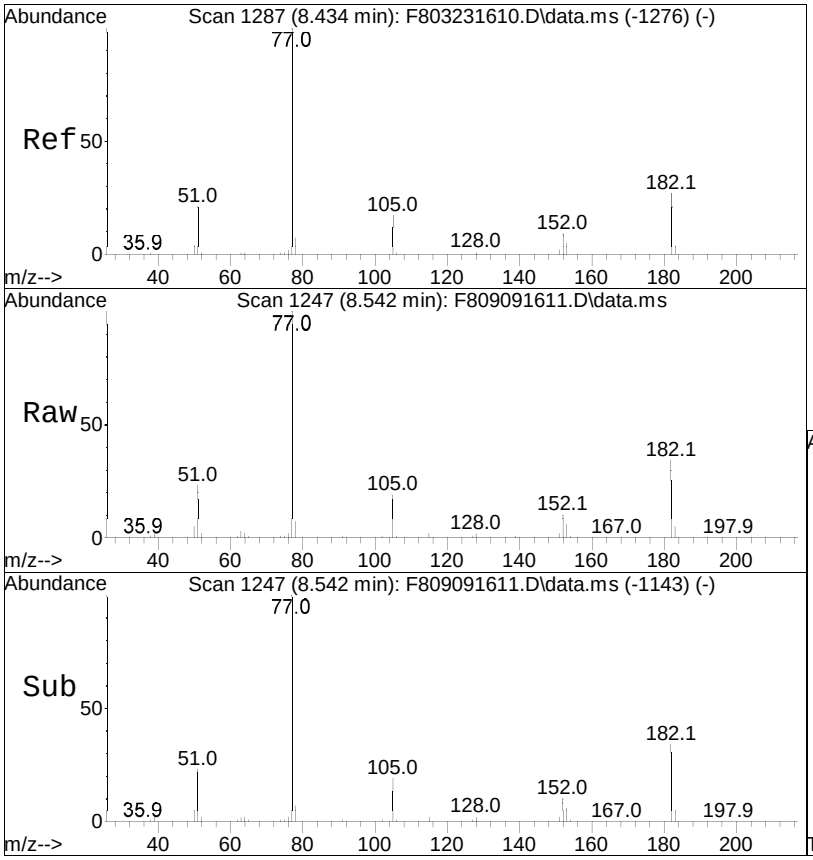


#62
4,6-Dinitro-2-methylphenol
Concen: 9.30 ug/mL M4
RT: 8.412 min Scan# 1220
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:198 Resp: 148627

Ion	Ratio	Lower	Upper
198	100		
182	2.7	2.2	3.2
77	15.7	16.8	25.2#

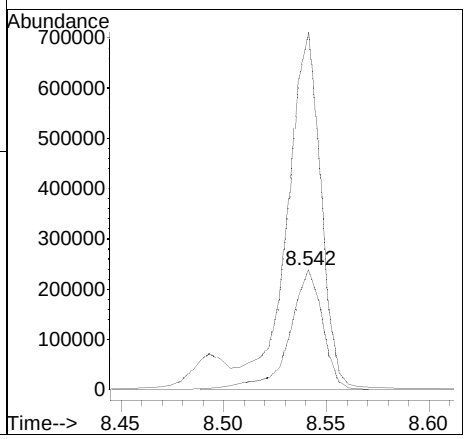


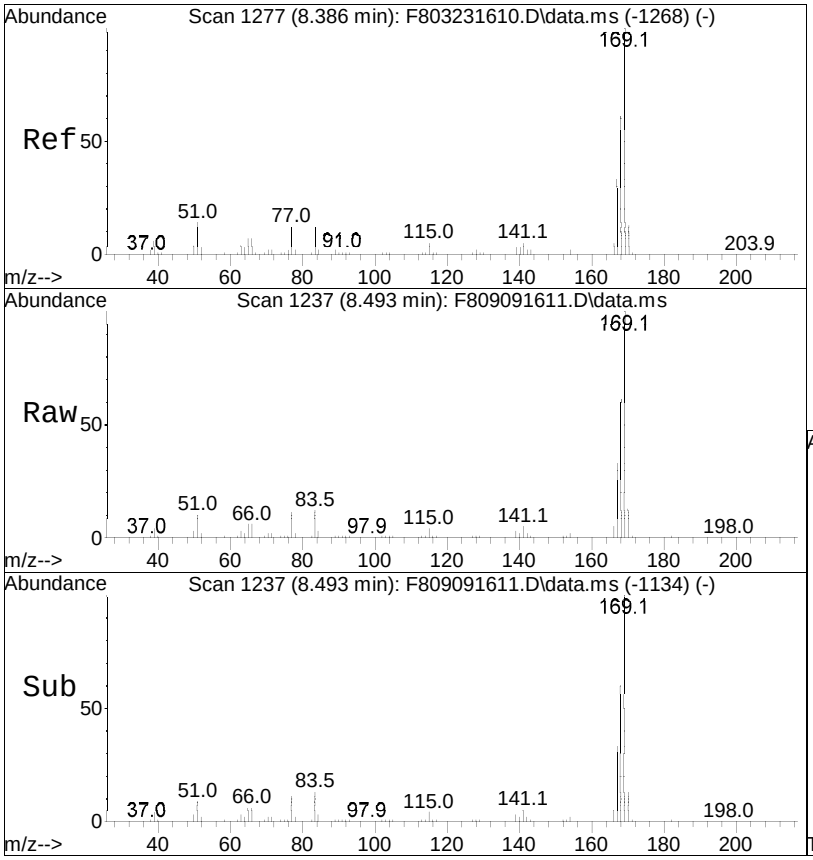


#63
Azobenzene
Concen: 9.29 ug/mL M4
RT: 8.542 min Scan# 1247
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:182 Resp: 265157

Ion	Ratio	Lower	Upper
182	100		
77	296.0	54.9	631.7

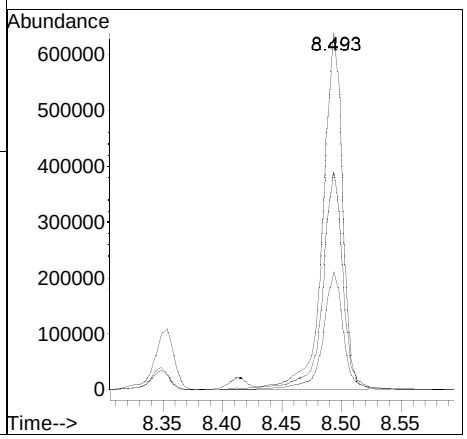


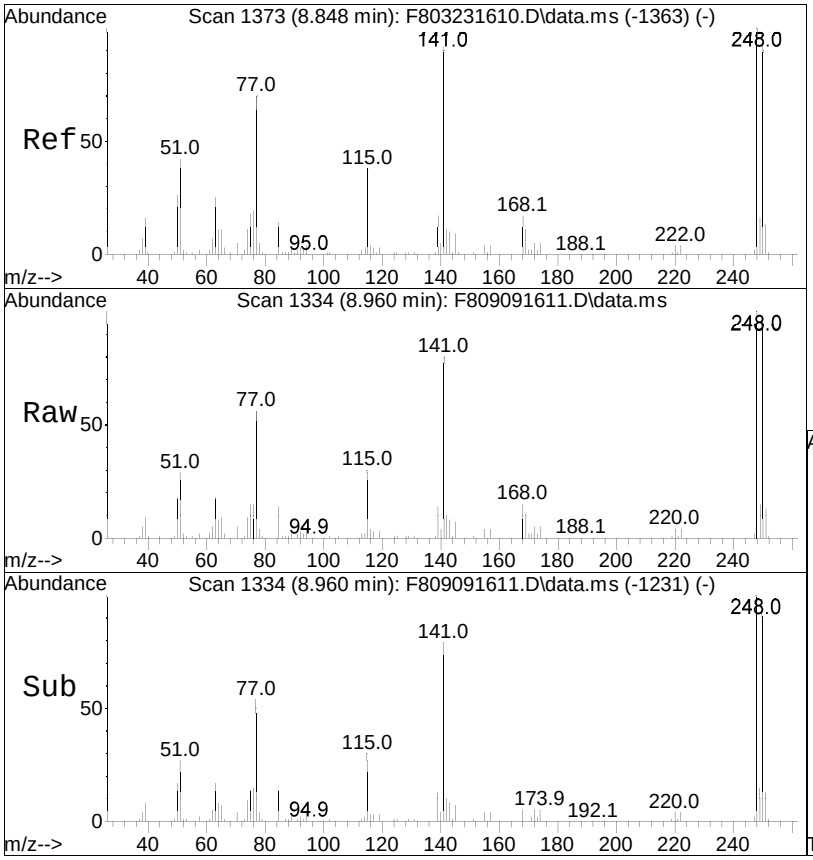


#64
n-Nitrosodiphenylamine
Concen: 9.91 ug/mL
RT: 8.493 min Scan# 1237
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:169 Resp: 741111

Ion	Ratio	Lower	Upper
169	100		
168	58.9	49.4	74.2
167	33.6	26.7	40.1

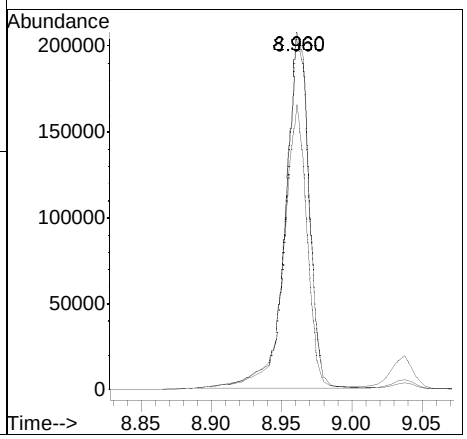


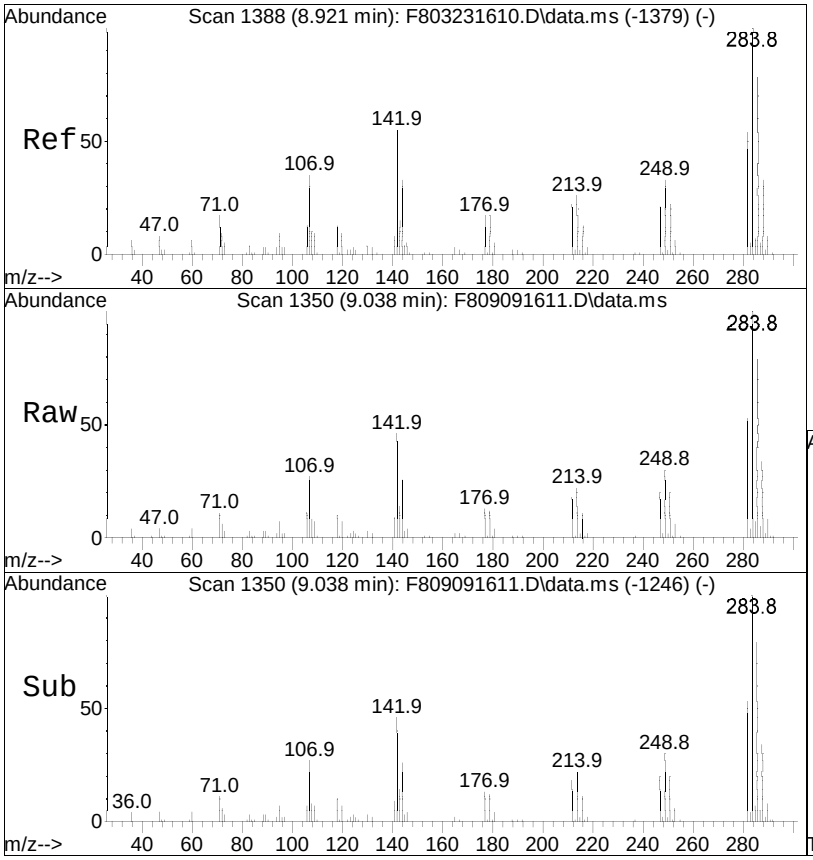


#66
4-Bromophenyl-phenylether
Concen: 9.38 ug/mL M4
RT: 8.960 min Scan# 1334
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:248 Resp: 245039

Ion	Ratio	Lower	Upper
248	100		
250	93.0	77.3	115.9
141	79.2	61.7	92.5

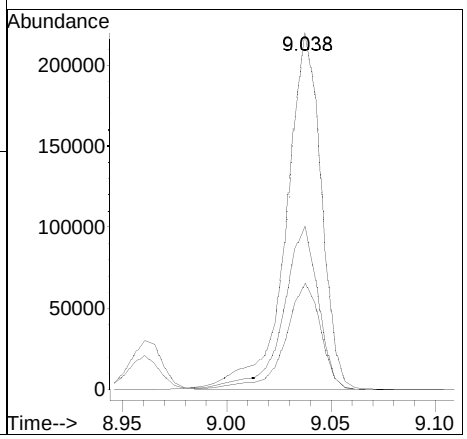


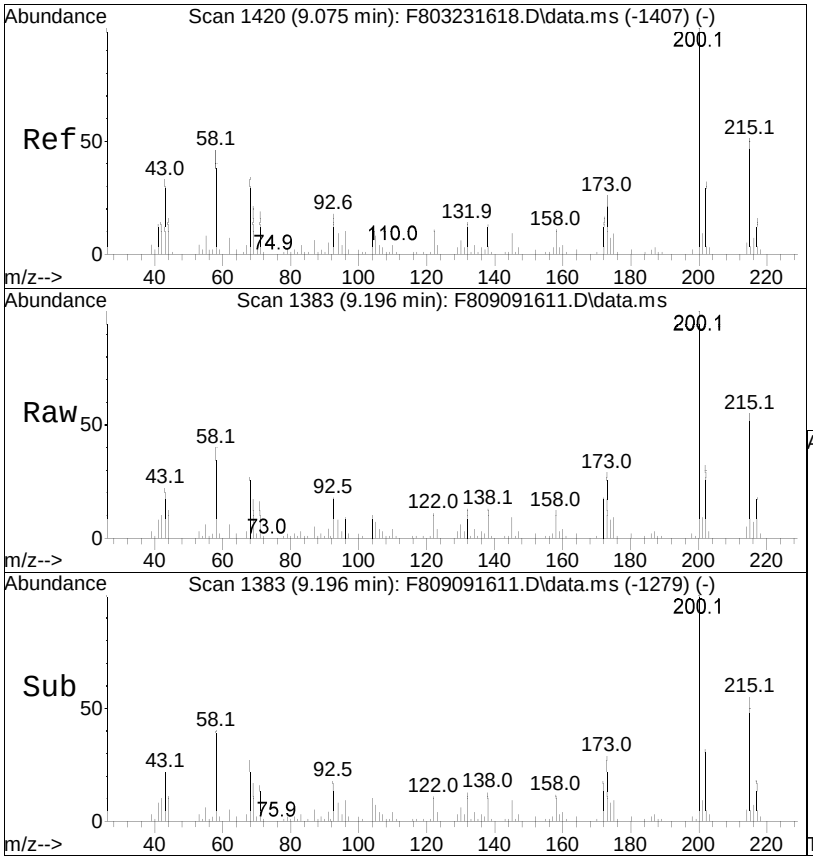


#67
Hexachlorobenzene
Concen: 9.40 ug/mL M4
RT: 9.038 min Scan# 1350
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:284 Resp: 256676

Ion	Ratio	Lower	Upper
284	100		
142	45.9	37.8	56.6
249	29.8	24.8	37.2

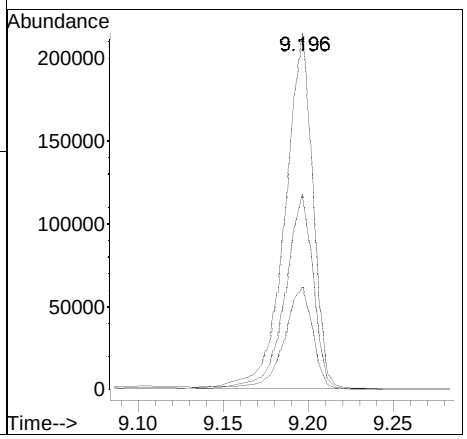


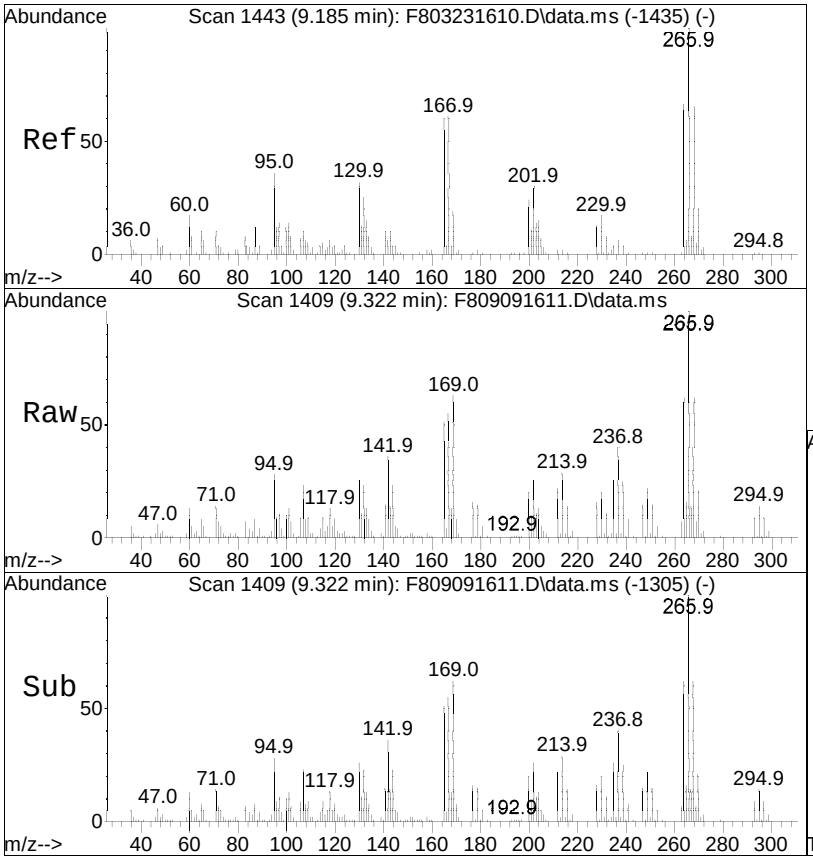


#68
Atrazine
Concen: 8.48 ug/ml
RT: 9.196 min Scan# 1383
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:200 Resp: 244529

Ion	Ratio	Lower	Upper
200	100		
173	30.6	22.4	33.6
215	55.0	43.8	65.6

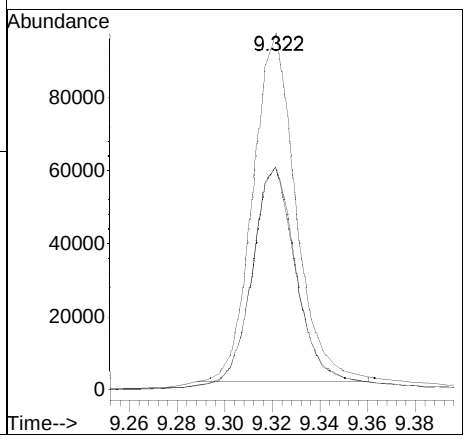


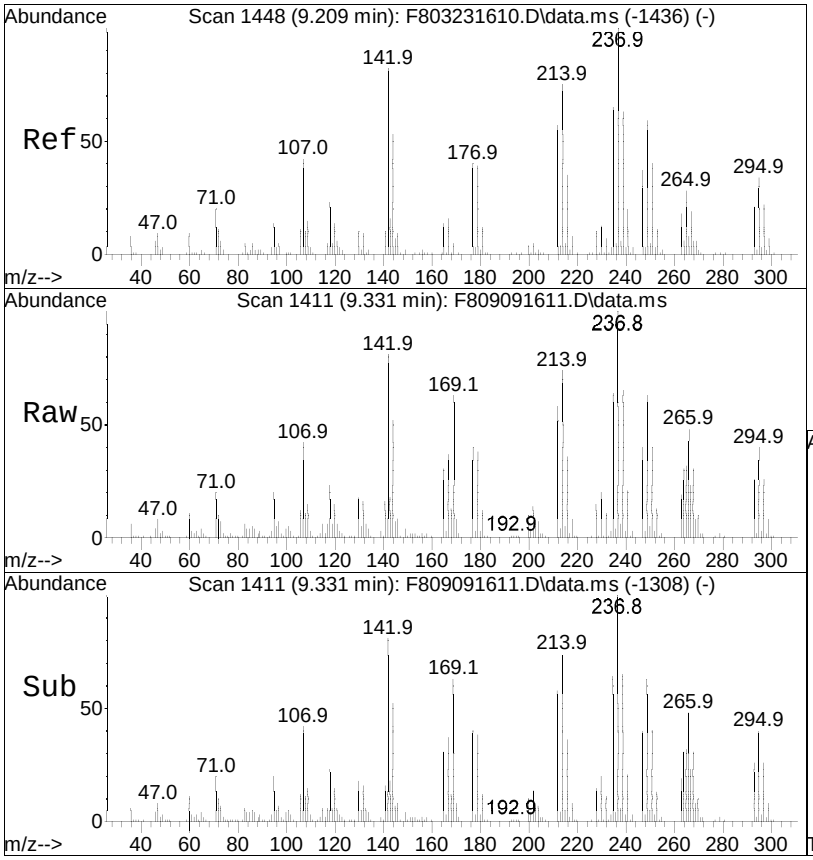


#69
Pentachlorophenol
Concen: 8.30 ug/mL
RT: 9.322 min Scan# 1409
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:266 Resp: 119027

Ion	Ratio	Lower	Upper
266	100		
264	63.7	49.7	74.5
268	63.8	48.1	72.1

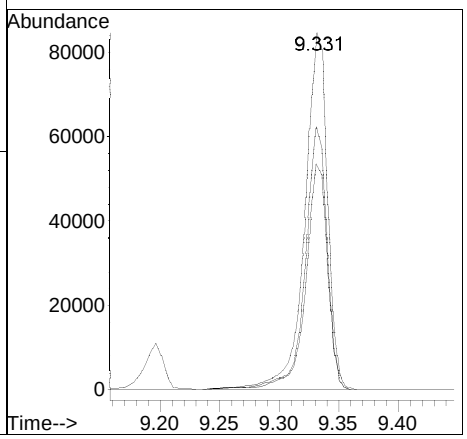


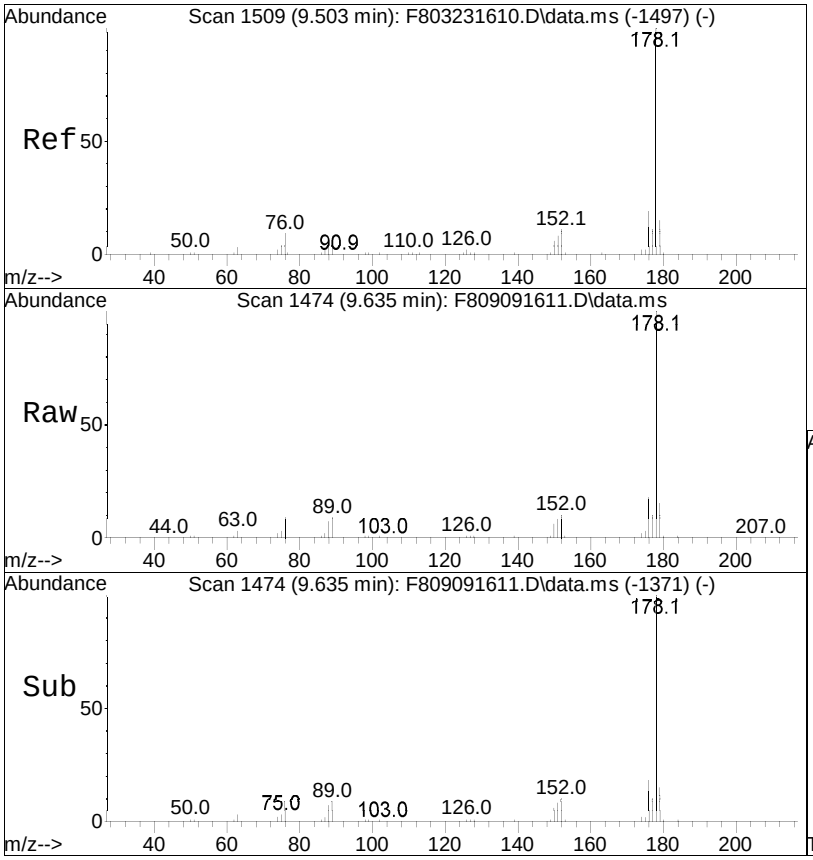


#70
Pentachloronitrobenzene
Concen: 10.41 ug/ml
RT: 9.331 min Scan# 1411
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:237 Resp: 113247

Ion	Ratio	Lower	Upper
237	100		
214	71.1	63.4	95.2
249	61.3	54.9	82.3

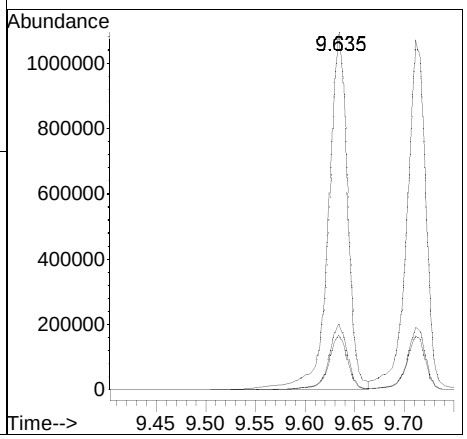


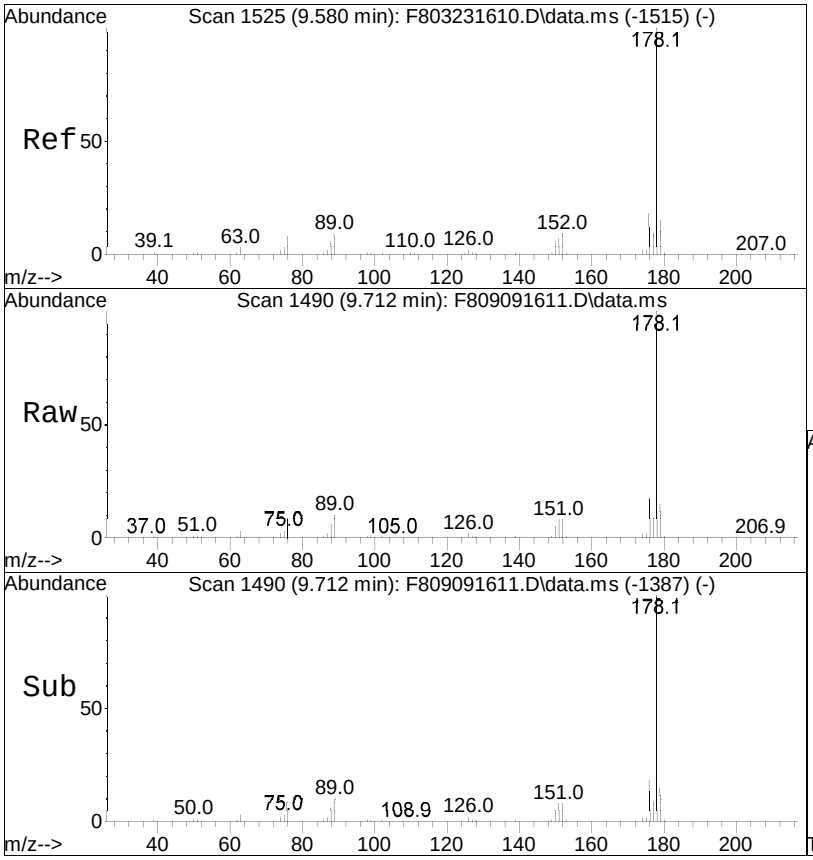


#71
Phenanthrene
Concen: 9.63 ug/mL
RT: 9.635 min Scan# 1474
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:178 Resp: 1472128

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.4	18.6
176	18.1	15.0	22.6

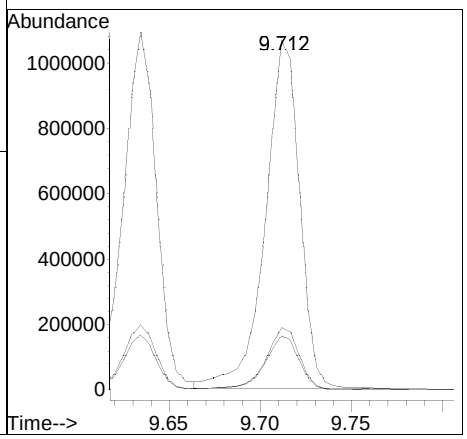


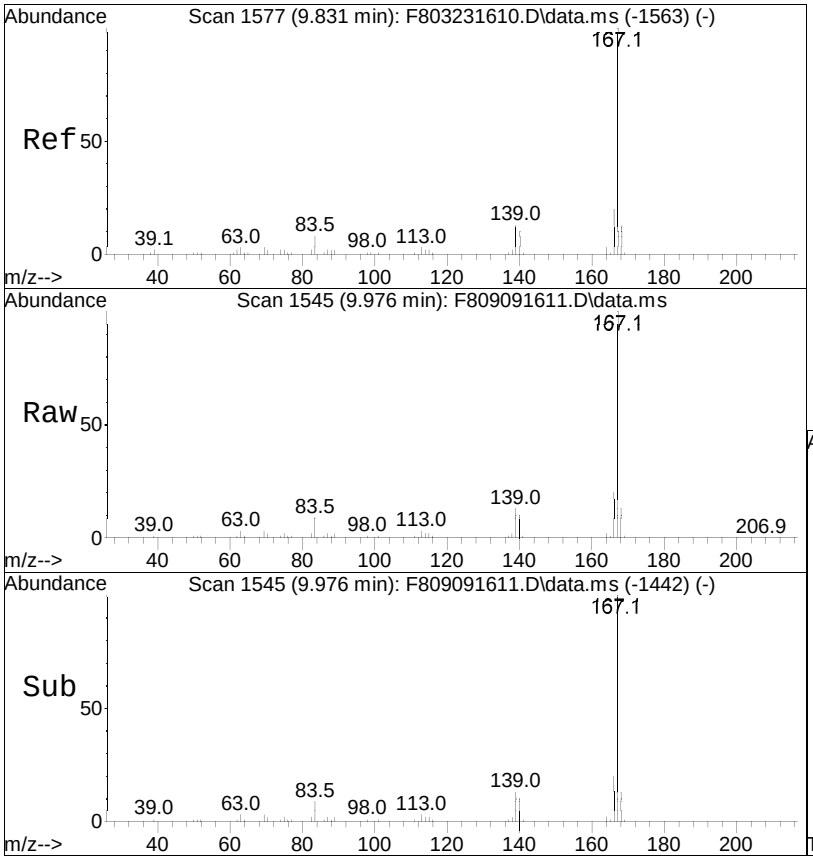


#72
Anthracene
Concen: 9.20 ug/mL M4
RT: 9.712 min Scan# 1490
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:178 Resp: 1390557

Ion	Ratio	Lower	Upper
178	100		
179	14.9	12.6	18.8
176	17.5	14.6	22.0

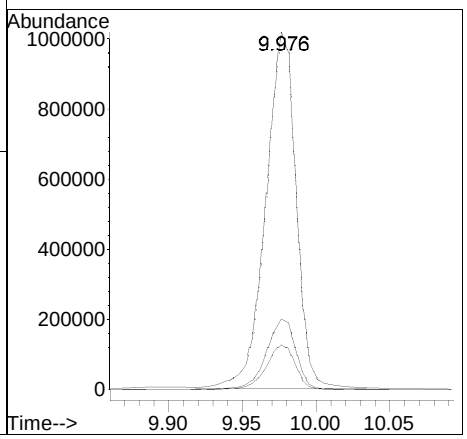


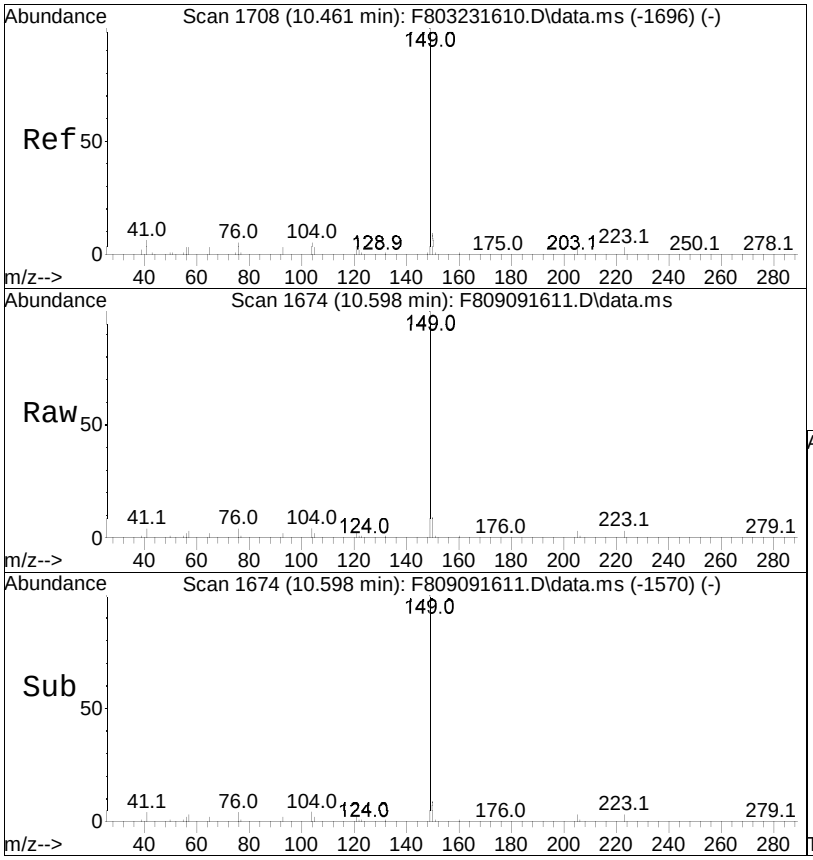


#73
Carbazole
Concen: 9.89 ug/mL M4
RT: 9.976 min Scan# 1545
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:167 Resp: 1434734

Ion	Ratio	Lower	Upper
167	100		
139	12.3	10.3	15.5
166	19.3	15.9	23.9

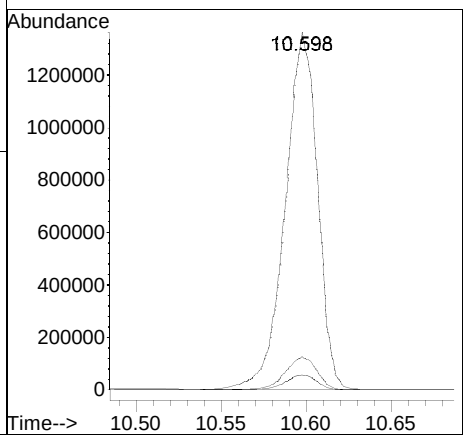


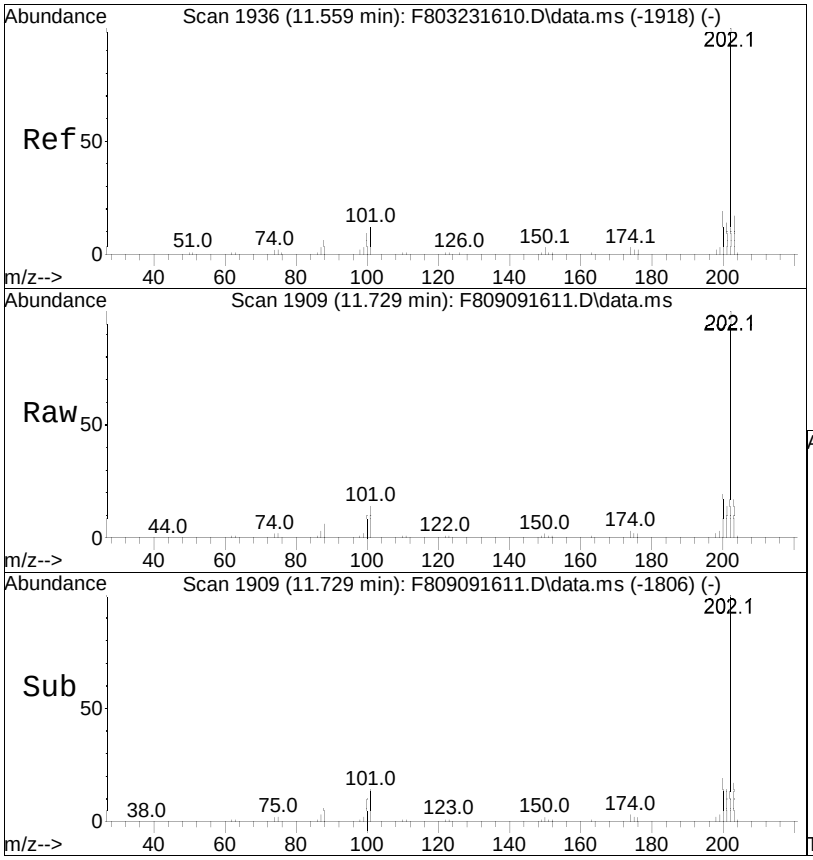


#74
Di-n-butylphthalate
Concen: 10.08 ug/mL
RT: 10.598 min Scan# 1674
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:149 Resp: 1769309

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	4.2	3.5	5.3

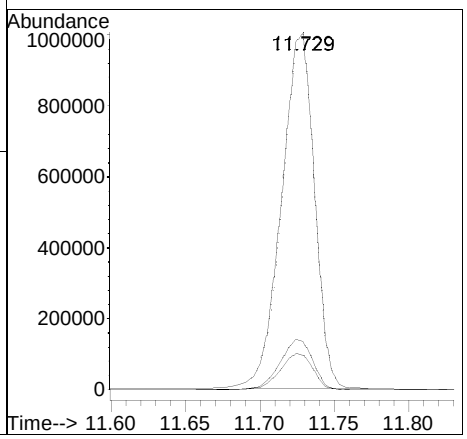


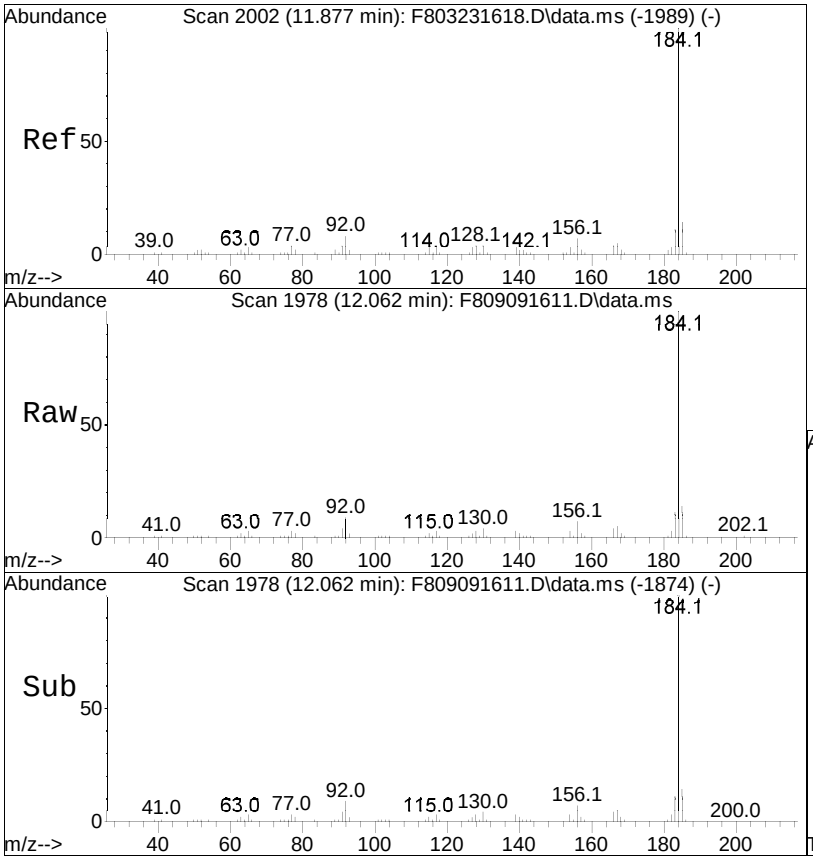


#75
Fluoranthene
Concen: 9.69 ug/mL
RT: 11.729 min Scan# 1909
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:202 Resp: 1532510

Ion	Ratio	Lower	Upper
202	100		
101	14.2	13.4	20.2
100	10.3	9.4	14.2

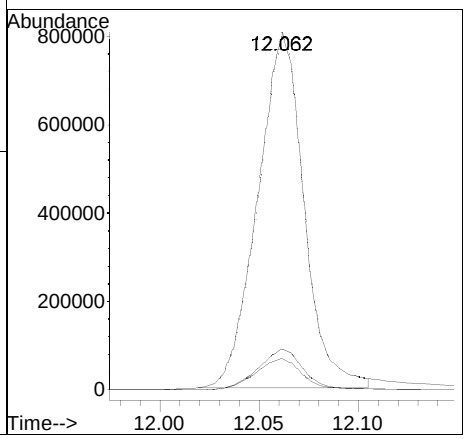


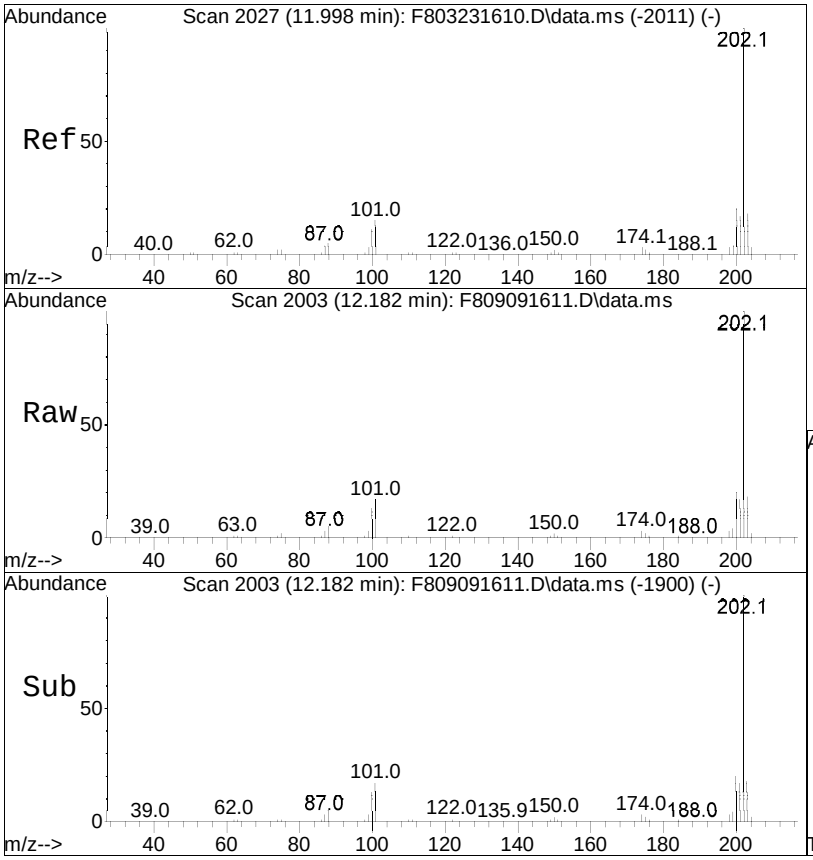


#77
Benzidine
Concen: 12.02 ug/mL
RT: 12.062 min Scan# 1978
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:184 Resp: 1290322

Ion	Ratio	Lower	Upper
184	100		
183	11.5	9.0	13.4
92	9.5	7.4	11.2

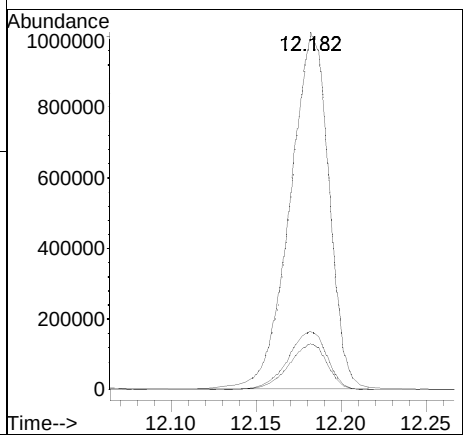


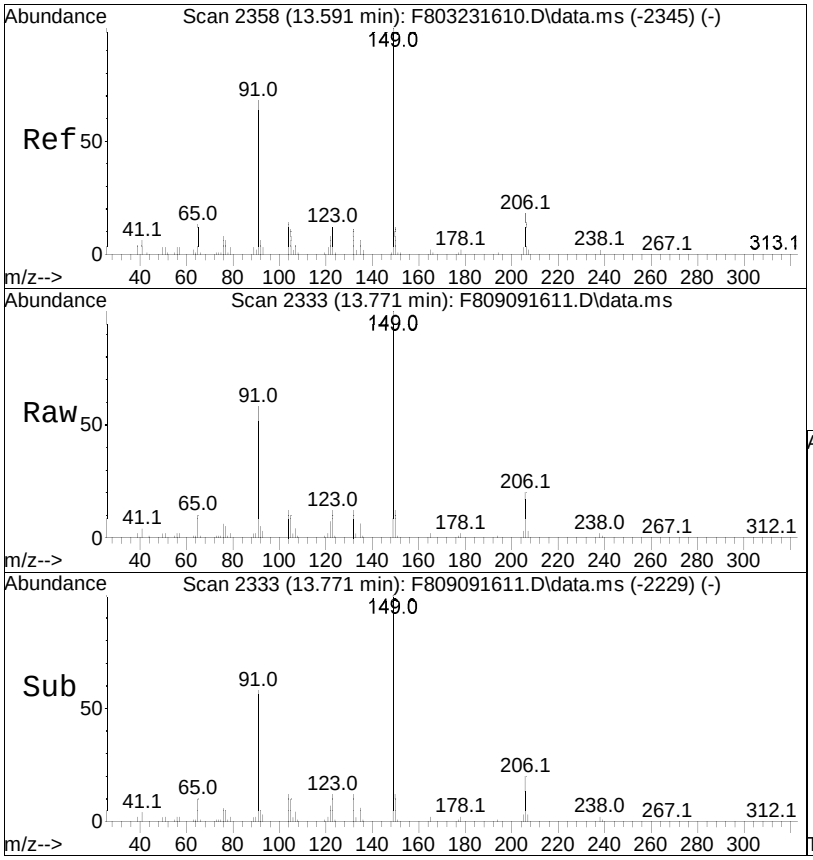


#78
Pyrene
Concen: 9.80 ug/mL
RT: 12.182 min Scan# 2003
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:202 Resp: 1589715

Ion	Ratio	Lower	Upper
202	100		
101	16.7	14.9	22.3
100	13.0	11.4	17.2

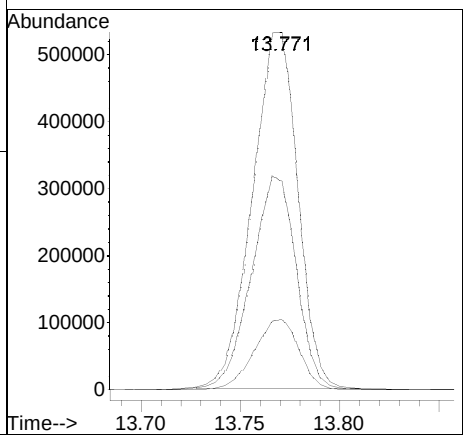


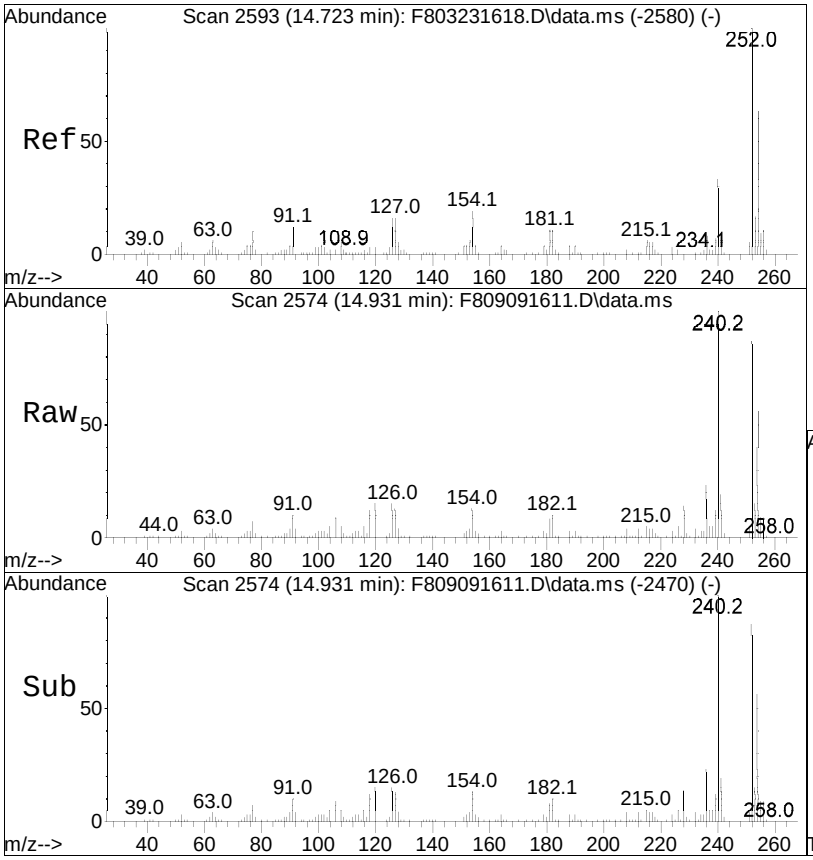


#80
Butylbenzylphthalate
Concen: 10.52 ug/mL
RT: 13.771 min Scan# 2333
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:149 Resp: 837176

Ion	Ratio	Lower	Upper
149	100		
91	59.6	50.8	76.2
206	19.6	15.0	22.4

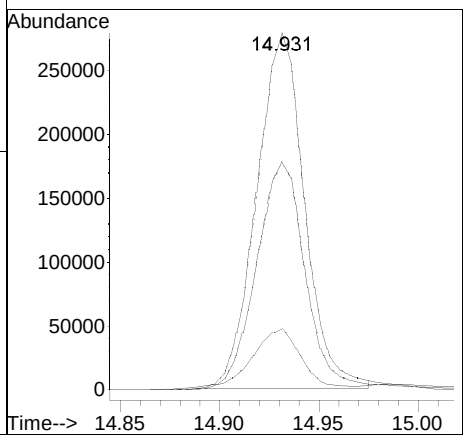


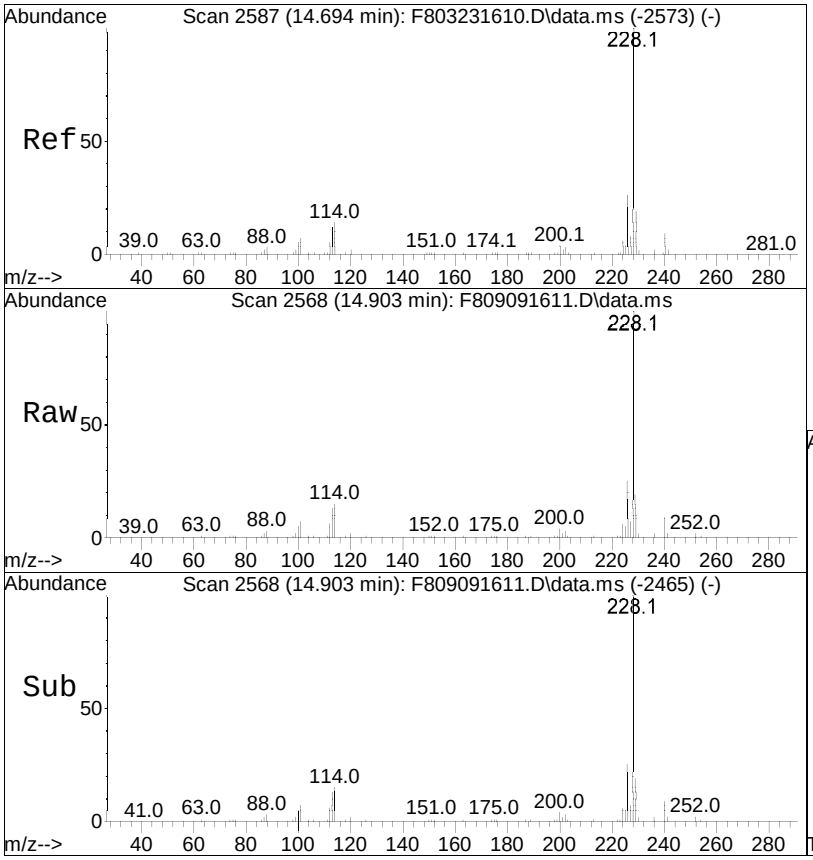


#81
3,3'-Dichlorobenzidine
Concen: 8.75 ug/mL
RT: 14.931 min Scan# 2574
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:252 Resp: 465750

Ion	Ratio	Lower	Upper
252	100		
254	64.6	52.0	78.0
126	18.1	13.6	20.4

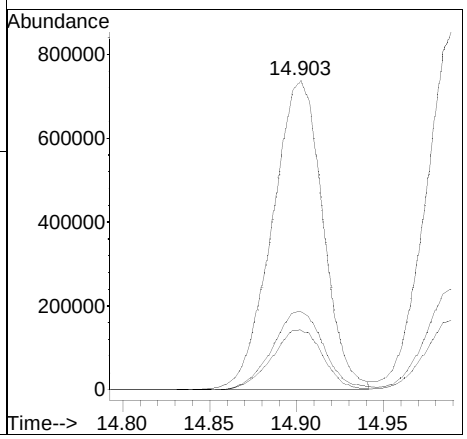


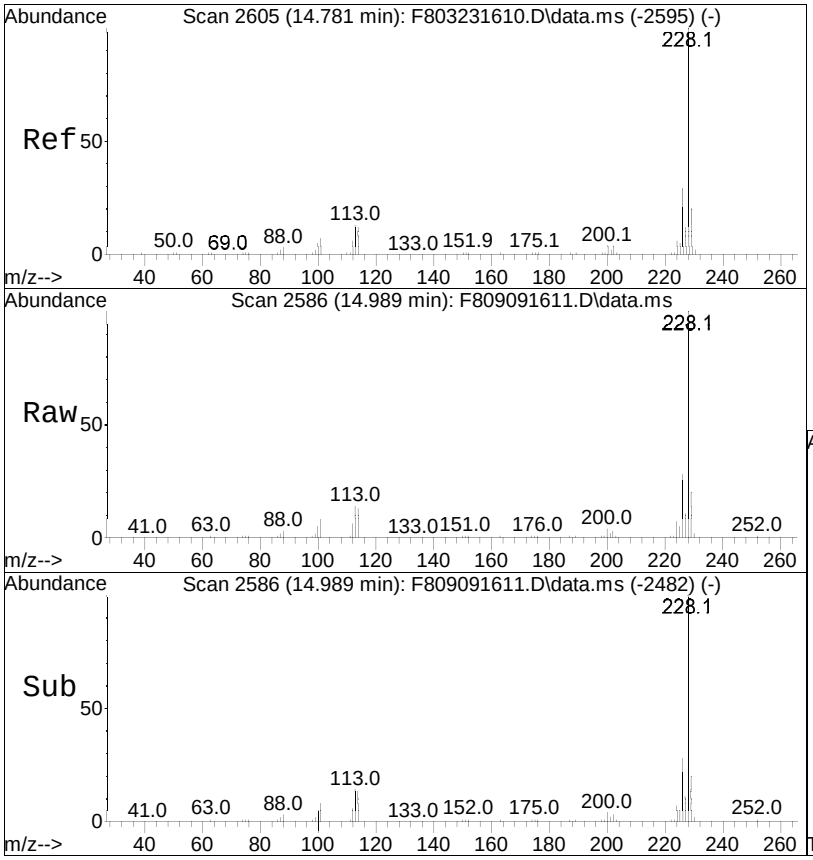


#82
Benz[a]anthracene
Concen: 9.67 ug/mL M4
RT: 14.903 min Scan# 2568
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:228 Resp: 1487243

Ion	Ratio	Lower	Upper
228	100		
229	19.8	15.9	23.9
226	25.9	21.2	31.8

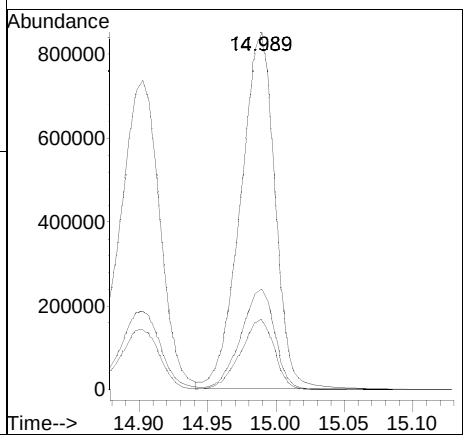


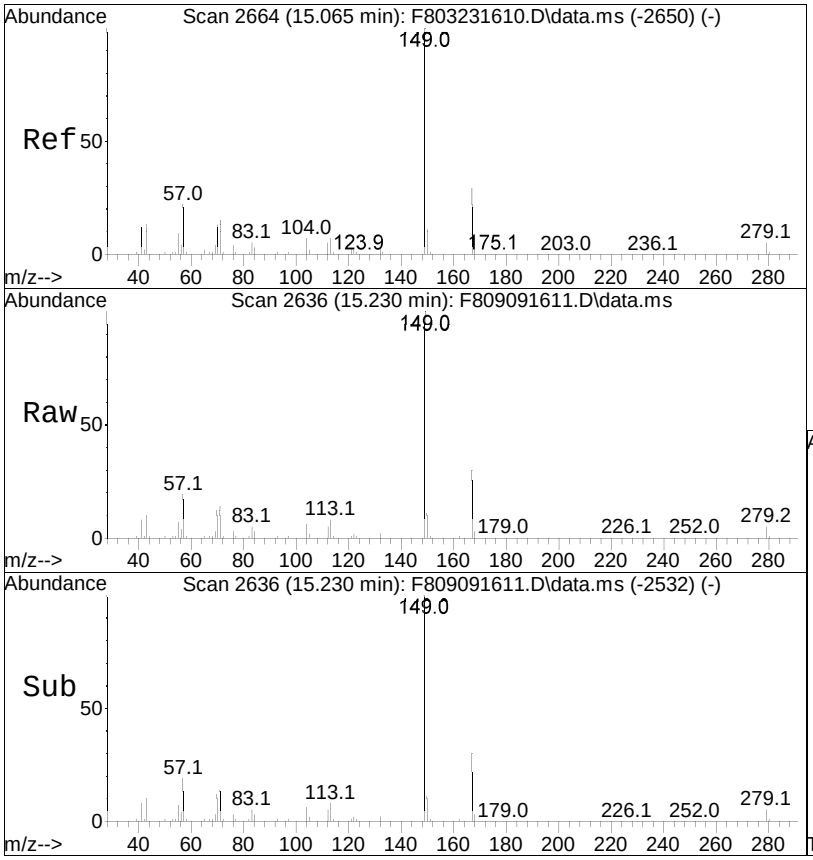


#83
Chrysene
Concen: 10.33 ug/mL M4
RT: 14.989 min Scan# 2586
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:228 Resp: 1475291

Ion	Ratio	Lower	Upper
228	100		
226	27.6	23.7	35.5
229	19.3	15.8	23.8

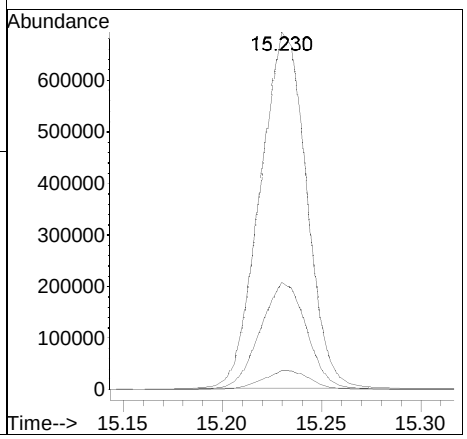


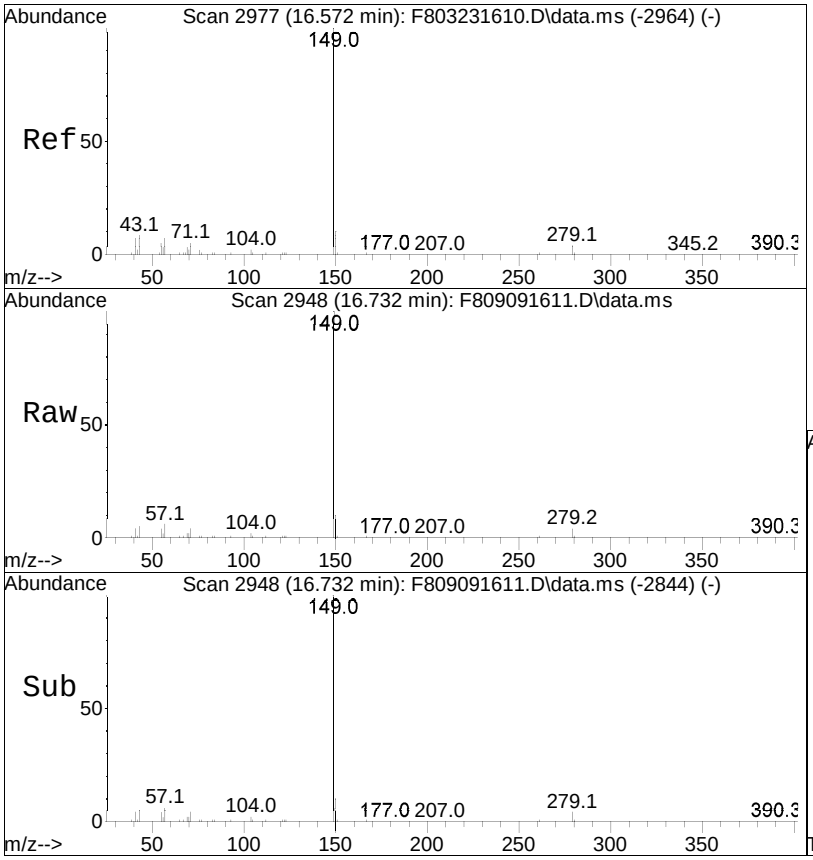


#84
bis(2-Ethylhexyl)phthalate
Concen: 10.65 ug/mL
RT: 15.230 min Scan# 2636
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:149 Resp: 1115614

Ion	Ratio	Lower	Upper
149	100		
167	30.0	23.8	35.6
279	5.4	4.0	6.0

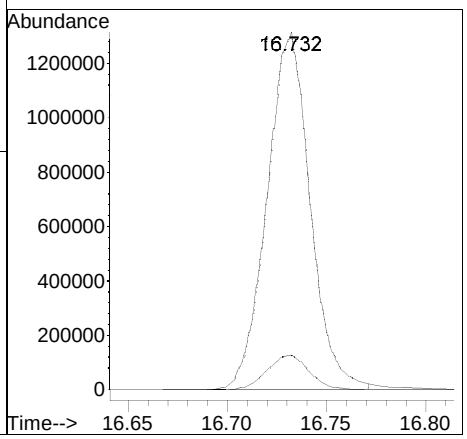


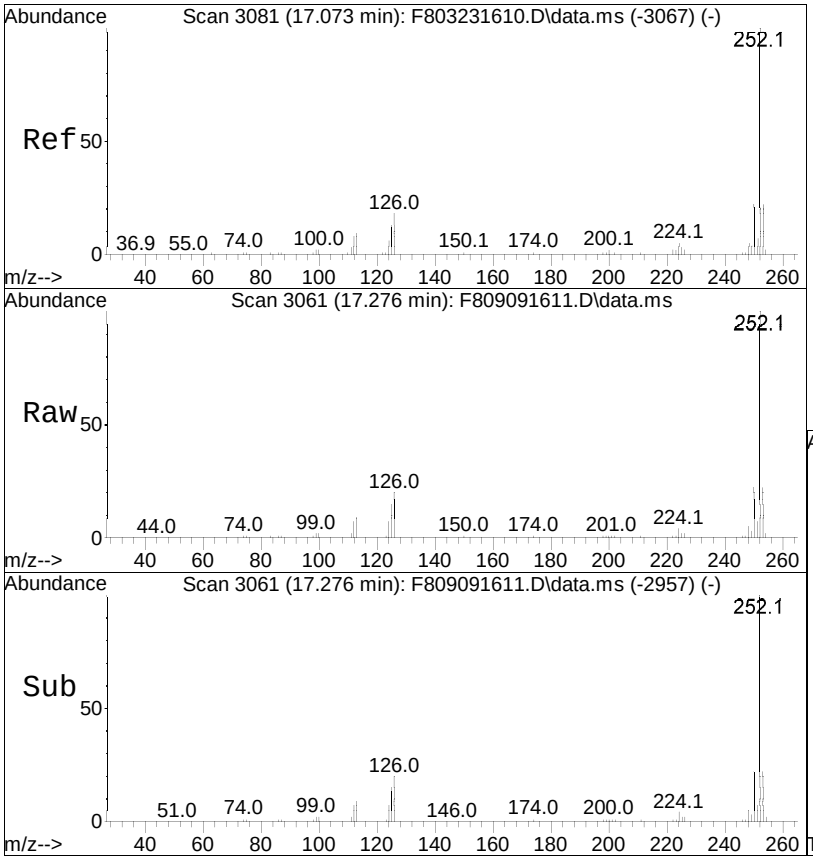


#86
Di-n-octylphthalate
Concen: 10.41 ug/mL
RT: 16.732 min Scan# 2948
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:149 Resp: 1958604

Ion	Ratio	Lower	Upper
149	100		
150	9.8	8.1	12.1

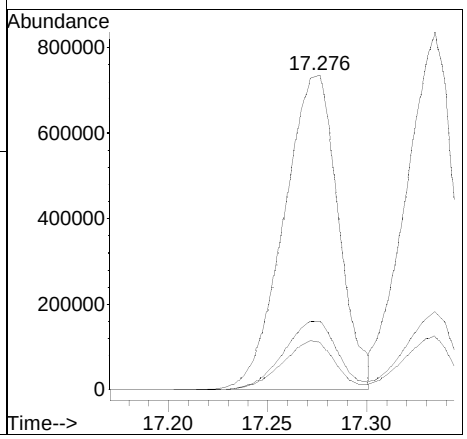


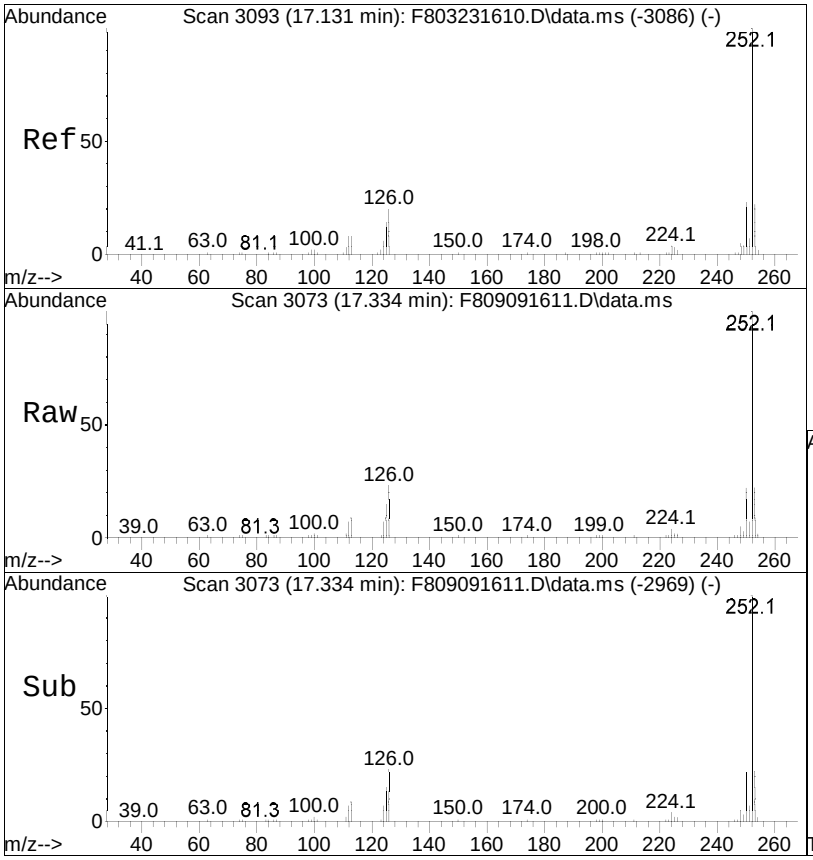


#87
Benzo[b]fluoranthene
Concen: 9.71 ug/mL
RT: 17.276 min Scan# 3061
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:252 Resp: 1403996

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	15.4	13.7	20.5

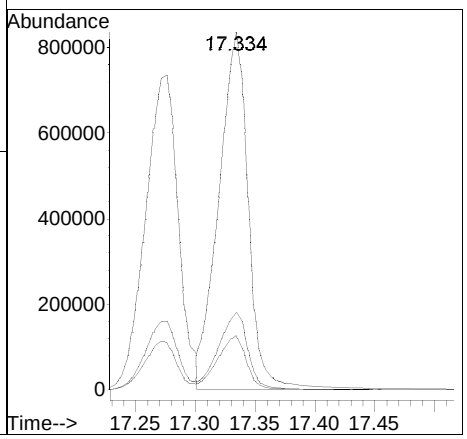


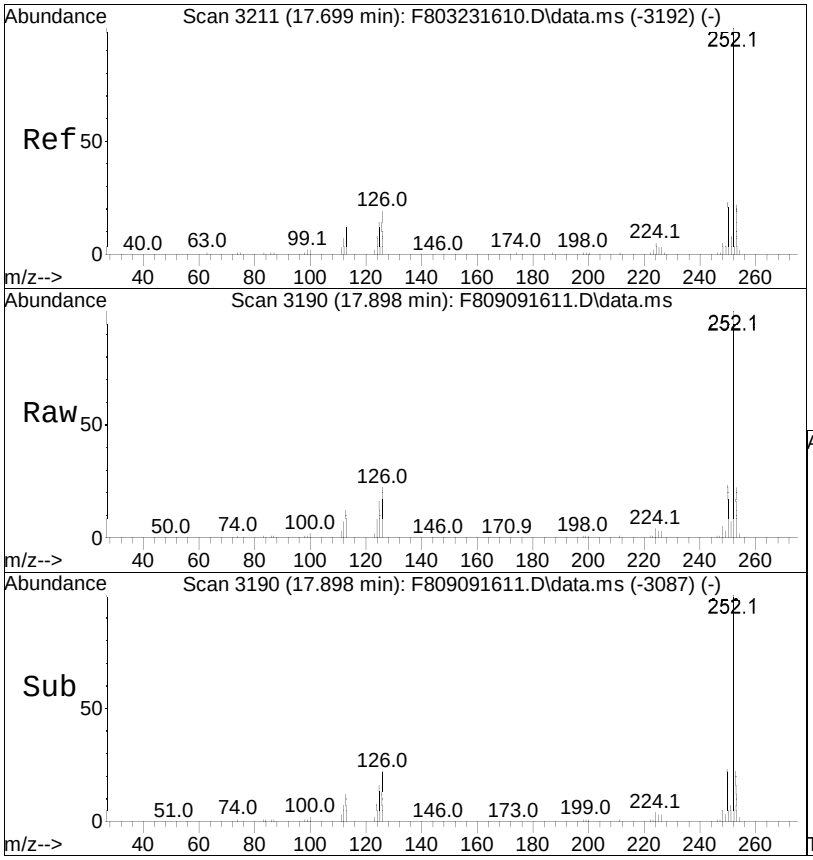


#88
Benzo[k]fluoranthene
Concen: 10.79 ug/mL M4
RT: 17.334 min Scan# 3073
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:252 Resp: 1426341

Ion	Ratio	Lower	Upper
252	100		
253	20.6	17.3	25.9
125	14.4	13.3	19.9

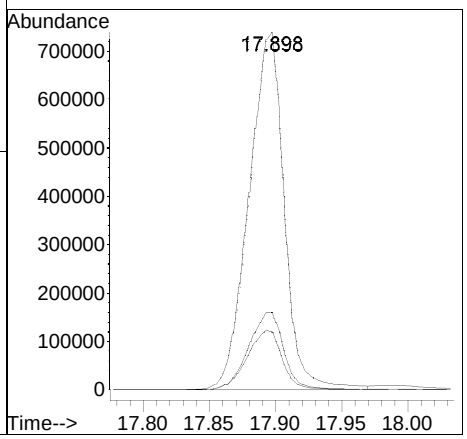


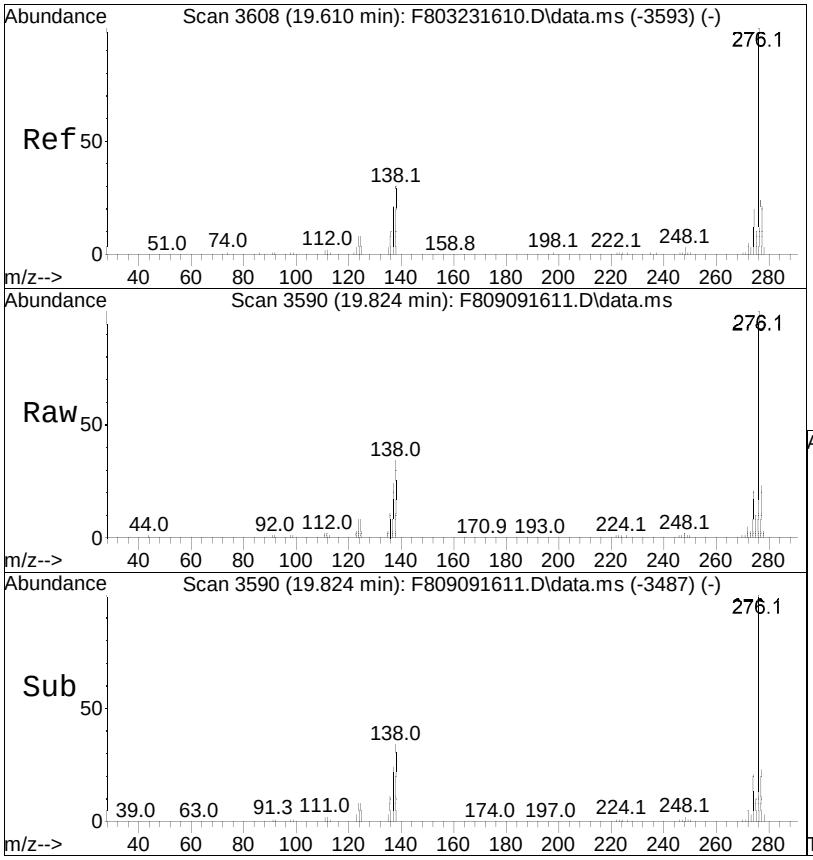


#89
Benzo[a]pyrene
Concen: 9.89 ug/mL
RT: 17.898 min Scan# 3190
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:252 Resp: 1347561

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0
125	17.0	14.3	21.5

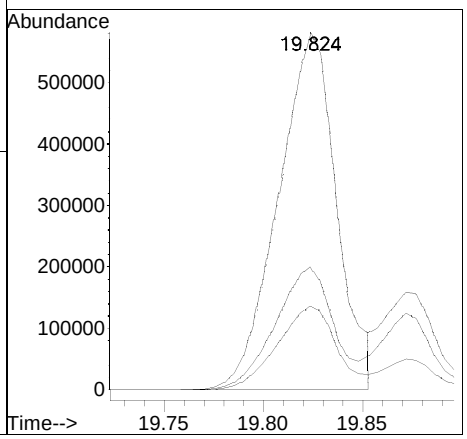


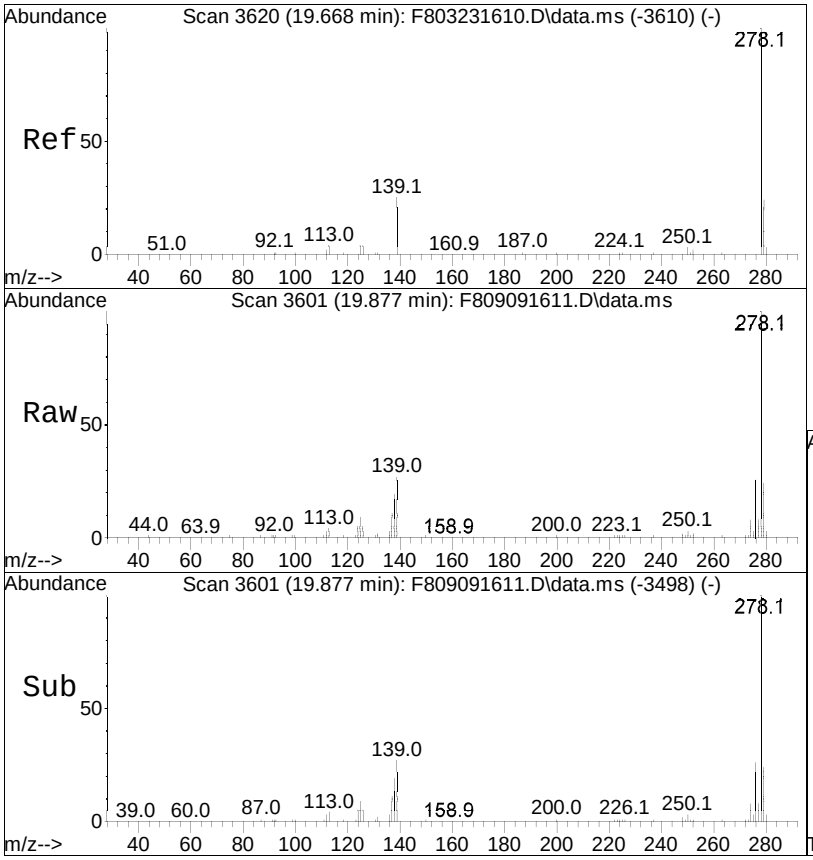


#90
Indeno[1,2,3-cd]pyrene
Concen: 9.95 ug/mL
RT: 19.824 min Scan# 3590
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:276 Resp: 1178023

Ion	Ratio	Lower	Upper
276	100		
138	36.0	28.2	42.2
277	24.1	19.4	29.0

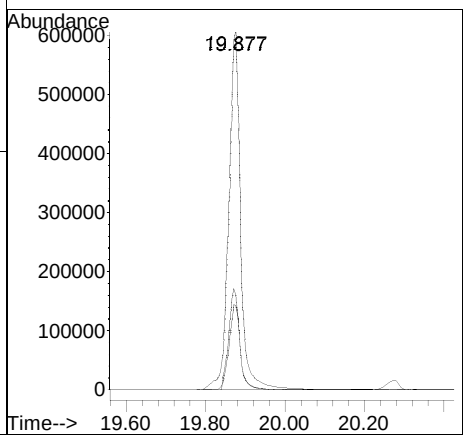


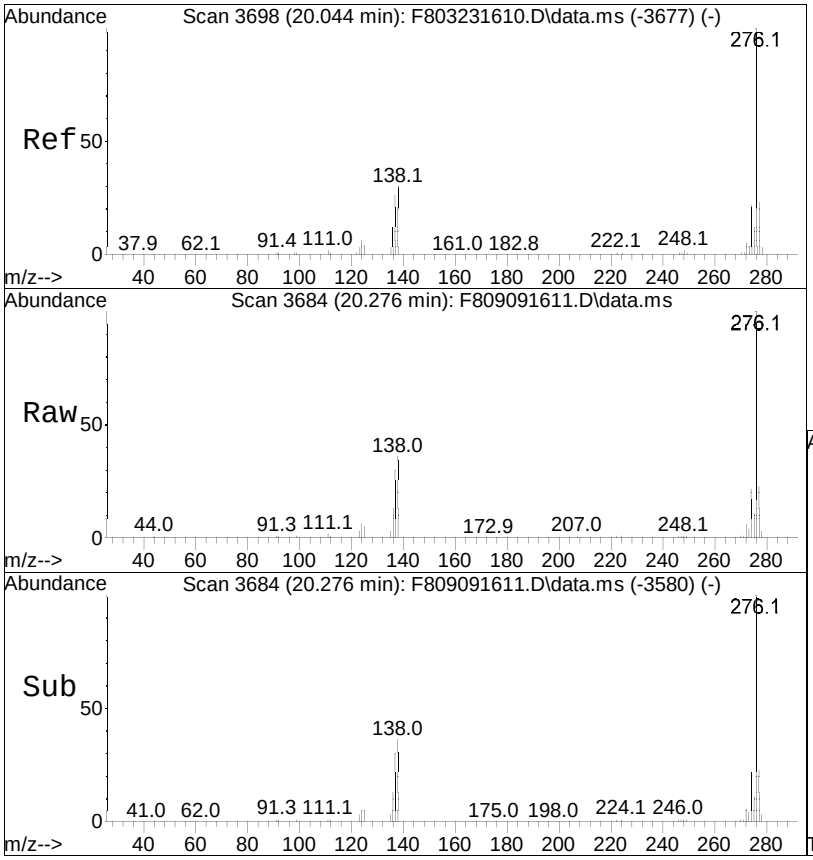


#91
Dibenz[a,h]anthracene
Concen: 10.54 ug/mL
RT: 19.877 min Scan# 3601
Delta R.T. -0.005 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:278 Resp: 1257721

Ion	Ratio	Lower	Upper
278	100		
139	26.4	23.4	35.0
279	22.4	19.4	29.0

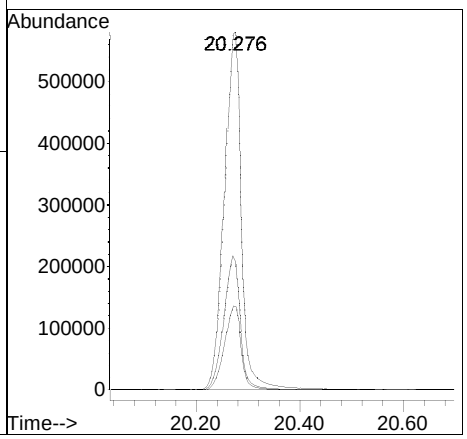




#92
Benzo[g,h,i]perylene
Concen: 10.23 ug/mL
RT: 20.276 min Scan# 3684
Delta R.T. 0.000 min
Lab File: F809091611.D
Acq: 9 Sep 2016 4:39 pm

Tgt Ion:276 Resp: 1310652

Ion	Ratio	Lower	Upper
276	100		
138	36.9	31.4	47.2
277	22.9	19.4	29.0



LCS Duplicate Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091612.D
Acq On : 9 Sep 2016 5:10 pm
Operator : BNA8:ML
Sample : WG929407-3
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 12 14:08:22 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	224706	5.000	ug/mL	0.00
21) Naphthalene-d8	6.043	136	827522	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	446356	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	721937	5.000	ug/mL	0.00
76) Chrysene-d12	14.922	240	663101	5.000	ug/mL	0.00
85) Perylene-d12	17.999	264	611338	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.827	112	678543	12.573	ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 62.87%			
8) Phenol-d5	4.545	99	867648	13.271	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 66.36%			
22) Nitrobenzene-d5	5.373	82	634227M4	13.134	ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 65.67%			
43) 2-Fluorobiphenyl	7.078	172	1616461	14.352	ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 71.76%			
65) 2,4,6-Tribromophenol	8.643	330	222576	20.961	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 104.80%			
79) Terphenyl-d14	12.586	244	2162470	20.848	ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 104.24%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.927	74	200107	7.415	ug/mL#	96
3) Pyridine	2.956	79	339864M4	6.453	ug/mL	
5) Benzaldehyde	4.511	77	219565	5.211	ug/ml	100
6) Aniline	4.598	93	507980M4	6.404	ug/ml	
7) bis(2-Chloroethyl)ether	4.636	63	216436	6.430	ug/mL	97
9) Phenol	4.559	94	463716	6.921	ug/mL#	86
10) 2-Chlorophenol	4.699	128	403492	6.643	ug/mL	99
11) 1,3-Dichlorobenzene	4.829	146	442778	6.608	ug/mL	100
12) 1,4-Dichlorobenzene	4.892	146	442121M4	6.633	ug/mL	
13) 1,2-Dichlorobenzene	5.026	146	423918	6.694	ug/mL	100
14) Benzyl alcohol	4.993	108	268541	7.437	ug/mL	99
15) bis(2-chloroisopropyl)eth	5.104	45	296783	6.351	ug/mL#	11
16) 2-Methylphenol	5.084	108	322519M4	6.837	ug/mL	
17) Acetophenone	5.234	105	448405	6.221	ug/ml#	78
18) Hexachloroethane	5.330	117	155833	6.403	ug/mL	91
19) N-Nitroso-di-n-propylamin	5.229	70	230386	6.994	ug/mL	94
20) 4-Methylphenol	5.219	108	365170M4	7.165	ug/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091612.D
Acq On : 9 Sep 2016 5:10 pm
Operator : BNA8:ML
Sample : WG929407-3
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 12 14:08:22 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Nitrobenzene	5.392	77	321440	6.697	ug/mL	95
24) Isophorone	5.604	82	610680	7.906	ug/mL	96
25) 2-Nitrophenol	5.681	139	220626	7.031	ug/mL#	89
26) 2,4-Dimethylphenol	5.710	107	308782	6.187	ug/mL	97
27) Benzoic acid	5.811	105	114641M4	10.322	ug/mL	
28) bis(2-Chloroethoxy)methan	5.797	93	400538	7.159	ug/mL	99
29) 2,4-Dichlorophenol	5.903	162	338065	7.405	ug/mL	98
30) 1,2,4-Trichlorobenzene	5.985	180	328714	6.632	ug/mL	99
31) Naphthalene	6.062	128	1057814	6.652	ug/mL	99
32) 2-Chloroaniline	5.648	127	558938	6.970	ug/ml	99
33) 4-Chloroaniline	6.110	127	510085M4	7.450	ug/mL	
34) Hexachlorobutadiene	6.168	225	164036	6.510	ug/mL	99
35) Caprolactam	6.457	113	163581M4	11.065	ug/ml	
36) 4-Chloro-3-methylphenol	6.577	107	376925	8.570	ug/mL	99
37) 2-Methylnaphthalene	6.721	142	767111	7.111	ug/mL	99
39) 1,2,4,5-Tetrachlorobenzen	6.880	216	333777	7.176	ug/mL	99
40) Hexachlorocyclopentadiene	6.871	237	106513	5.318	ug/mL	96
41) 2,4,6-Trichlorophenol	6.996	196	272474M6	8.131	ug/mL	
42) 2,4,5-Trichlorophenol	7.034	196	285632M6	9.591	ug/mL	
44) Biphenyl	7.174	154	909621	7.061	ug/ml	99
45) 2-Chloronaphthalene	7.198	162	743796	7.380	ug/mL	99
46) 2-Nitroaniline	7.299	65	210568	9.037	ug/mL	98
47) Acenaphthylene	7.607	152	1327616	7.966	ug/mL	99
48) Dimethylphthalate	7.468	163	1014163	9.354	ug/mL	100
49) 2,6-Dinitrotoluene	7.535	165	244373	9.704	ug/mL	91
50) Acenaphthene	7.781	153	815082	8.039	ug/mL	98
51) 3-Nitroaniline	7.709	138	280840	9.746	ug/mL	99
52) 2,4-Dinitrophenol	7.815	184	88642	7.930	ug/mL#	81
53) Dibenzofuran	7.964	168	1121254	8.470	ug/mL	99
54) 2,3,4,6-Tetrachlorophenol	8.099	232	211730	10.543	ug/mL	96
55) 2,4-Dinitrotoluene	7.954	165	341940	10.585	ug/mL	93
56) 4-Nitrophenol	7.892	109	113029	10.355	ug/mL	94
57) Fluorene	8.354	166	960948	8.813	ug/mL	100
58) 4-Chlorophenyl-phenylethe	8.349	204	433851	8.887	ug/mL	100
59) Diethylphthalate	8.214	149	1105514	9.976	ug/mL	99
60) 4-Nitroaniline	8.388	138	315211	10.590	ug/mL	95
62) 4,6-Dinitro-2-methylpheno	8.412	198	164012M4	9.905	ug/mL	
63) Azobenzene	8.542	182	277769	9.484	ug/mL	76
64) n-Nitrosodiphenylamine	8.493	169	786348	10.249	ug/mL	99
66) 4-Bromophenyl-phenylether	8.961	248	255922	9.552	ug/mL	98
67) Hexachlorobenzene	9.038	284	270469	9.655	ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091612.D
Acq On : 9 Sep 2016 5:10 pm
Operator : BNA8:ML
Sample : WG929407-3
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 12 14:08:22 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) Atrazine	9.197	200	260899	8.815	ug/ml	98
69) Pentachlorophenol	9.322	266	153900M4	9.978	ug/mL	
70) Pentachloronitrobenzene	9.331	237	121065	10.850	ug/ml	90
71) Phenanthrene	9.635	178	1514607	9.651	ug/mL	99
72) Anthracene	9.712	178	1478110M4	9.534	ug/mL	
73) Carbazole	9.977	167	1579815	10.610	ug/mL	99
74) Di-n-butylphthalate	10.598	149	1916942	10.644	ug/mL	99
75) Fluoranthene	11.729	202	1652350	10.183	ug/mL	95
77) Benzidine	12.062	184	1411409M4	12.891	ug/mL	
78) Pyrene	12.182	202	1707748	10.319	ug/mL	96
80) Butylbenzylphthalate	13.766	149	914519	11.262	ug/mL	95
81) 3,3'-Dichlorobenzidine	14.932	252	531358	9.784	ug/mL	96
82) Benz[a]anthracene	14.903	228	1642657M6	10.469	ug/mL	
83) Chrysene	14.989	228	1555904M6	10.681	ug/mL	
84) bis(2-Ethylhexyl)phthalat	15.230	149	1211599	11.340	ug/mL	99
86) Di-n-octylphthalate	16.732	149	2058804	10.601	ug/mL	99
87) Benzo[b]fluoranthene	17.277	252	1547461	10.367	ug/mL	98
88) Benzo[k]fluoranthene	17.334	252	1473720M4	10.801	ug/mL	
89) Benzo[a]pyrene	17.898	252	1432761	10.189	ug/mL	99
90) Indeno[1,2,3-cd]pyrene	19.824	276	1278738	10.457	ug/mL	99
91) Dibenz[a,h]anthracene	19.877	278	1354464	10.993	ug/mL	96
92) Benzo[g,h,i]perylene	20.277	276	1393430M4	10.536	ug/mL	

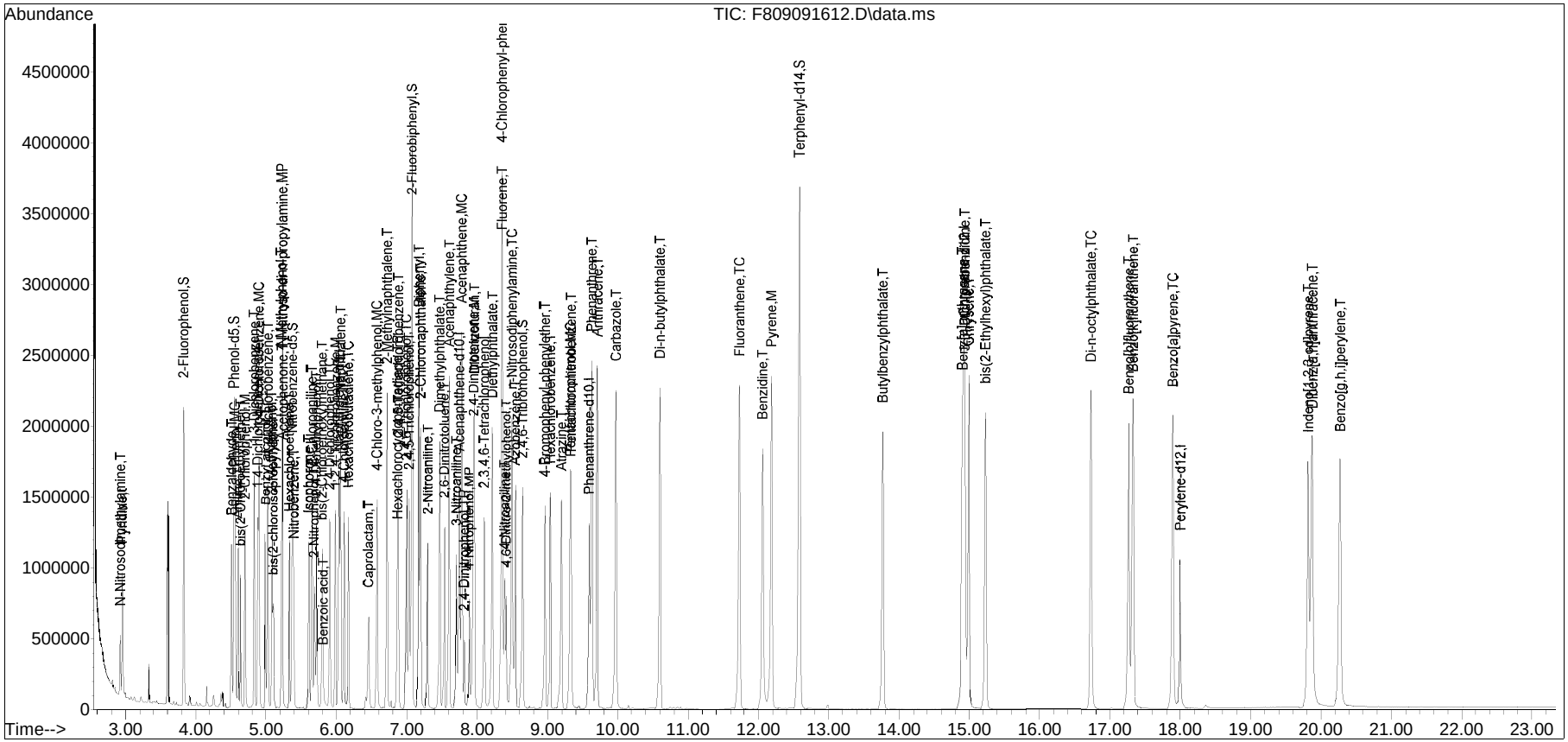
(#) = qualifier out of range (m) = manual integration (+) = signals summed

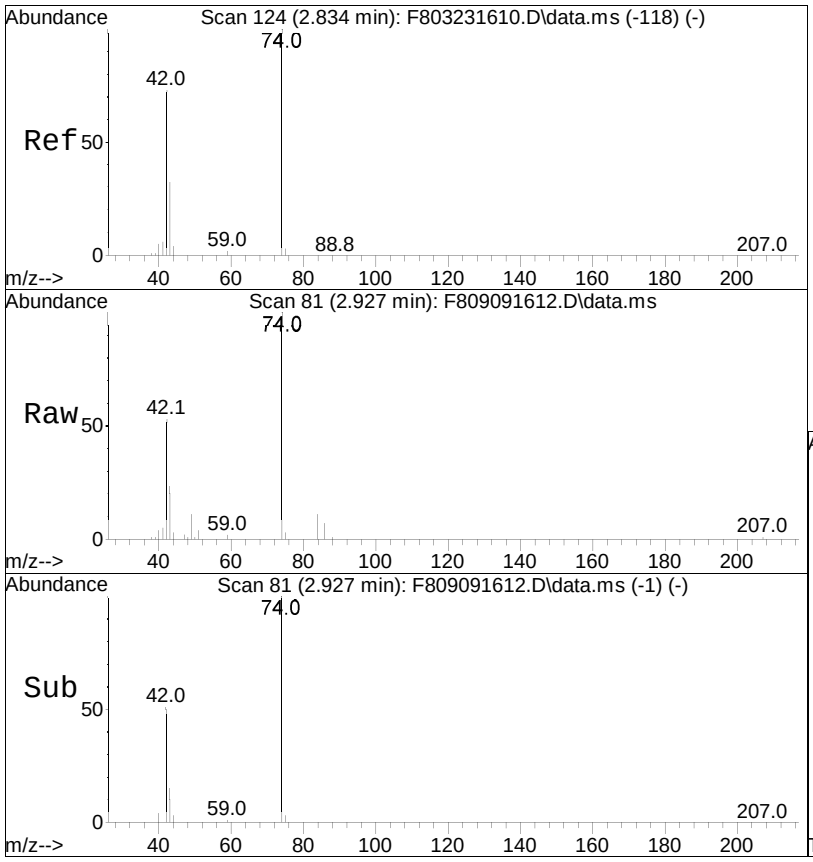
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091612.D
Acq On : 9 Sep 2016 5:10 pm
Operator : BNA8:ML
Sample : WG929407-3
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 12 14:08:22 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

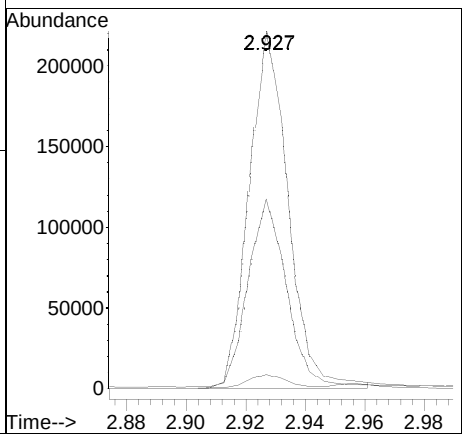


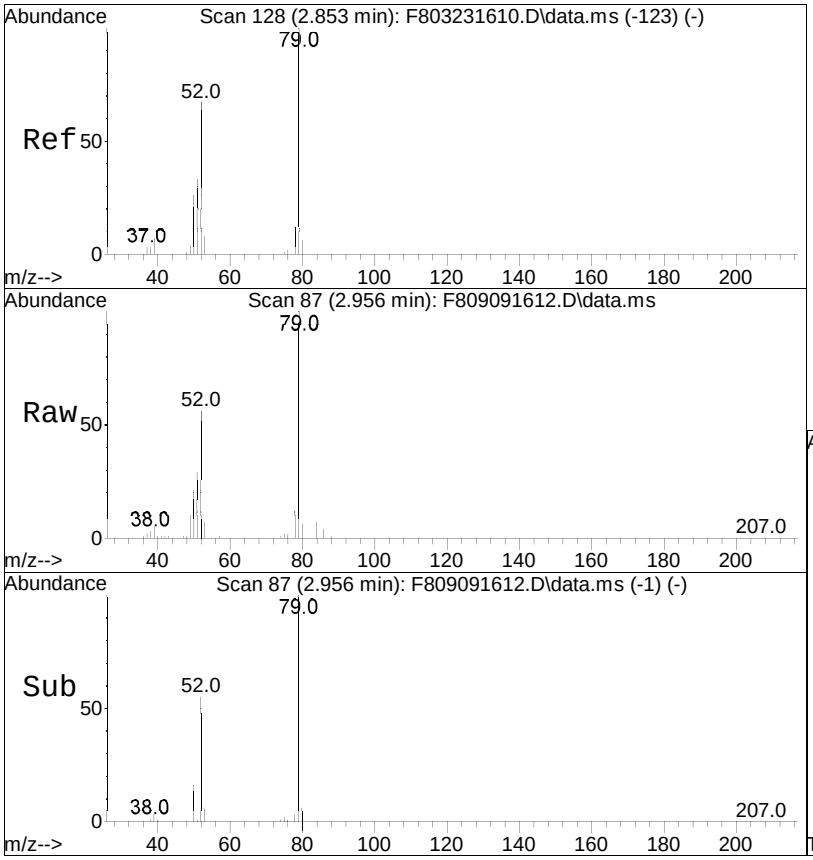


#2
N-Nitrosodimethylamine
Concen: 7.41 ug/mL
RT: 2.927 min Scan# 81
Delta R.T. -0.019 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion: 74 Resp: 200107

Ion	Ratio	Lower	Upper
74	100		
42	51.7	43.8	65.6
40	4.0	4.2	6.4#

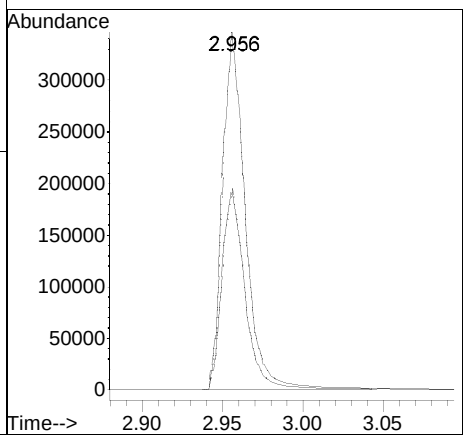


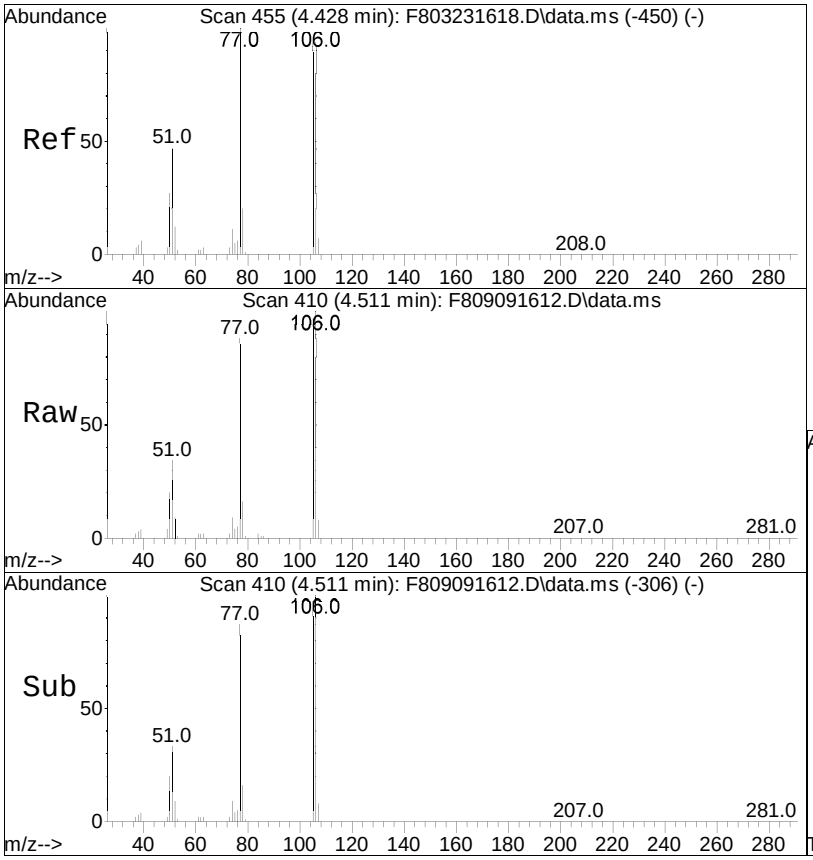


#3
Pyridine
Concen: 6.45 ug/mL M4
RT: 2.956 min Scan# 87
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion: 79 Resp: 339864

Ion	Ratio	Lower	Upper
79	100		
52	55.2	46.6	69.8

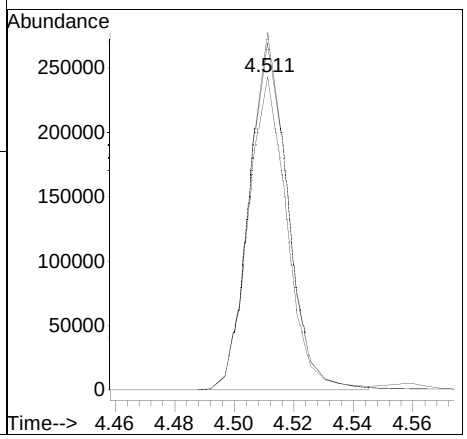


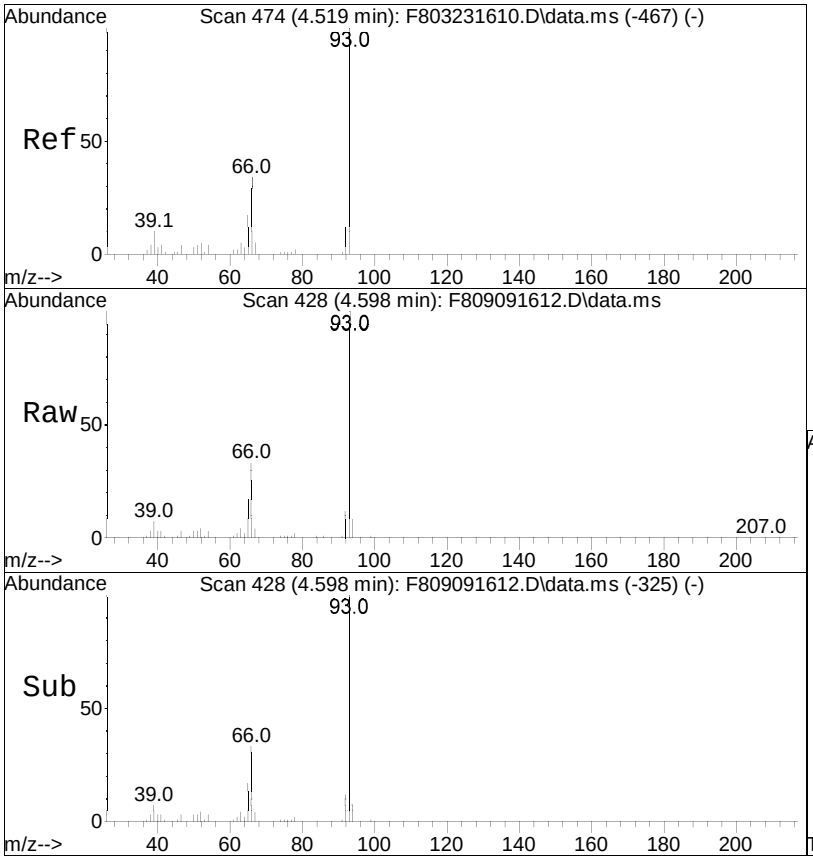


#5
Benzaldehyde
Concen: 5.21 ug/ml
RT: 4.511 min Scan# 410
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion: 77 Resp: 219565

Ion	Ratio	Lower	Upper
77	100		
105	110.6	88.1	132.1
106	112.4	89.8	134.8

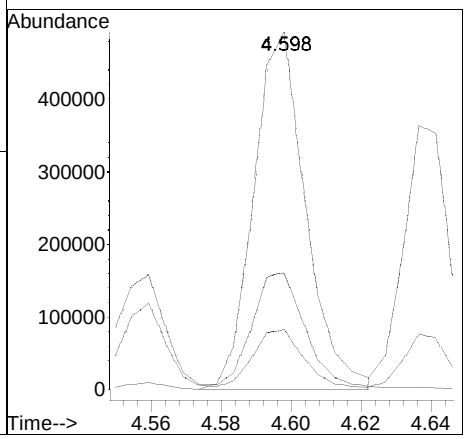


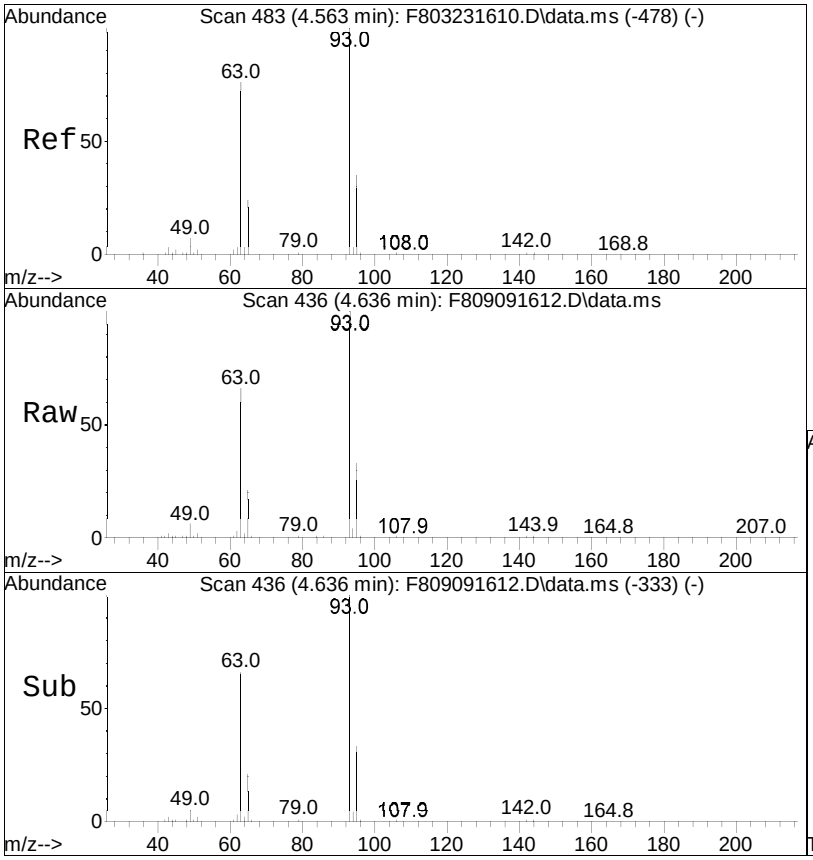


#6
Aniline
Concen: 6.40 ug/ml M4
RT: 4.598 min Scan# 428
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion: 93 Resp: 507980

Ion	Ratio	Lower	Upper
93	100		
66	32.6	26.7	40.1
65	17.1	14.2	21.4

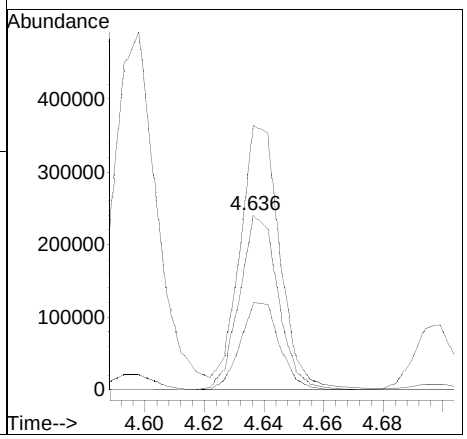


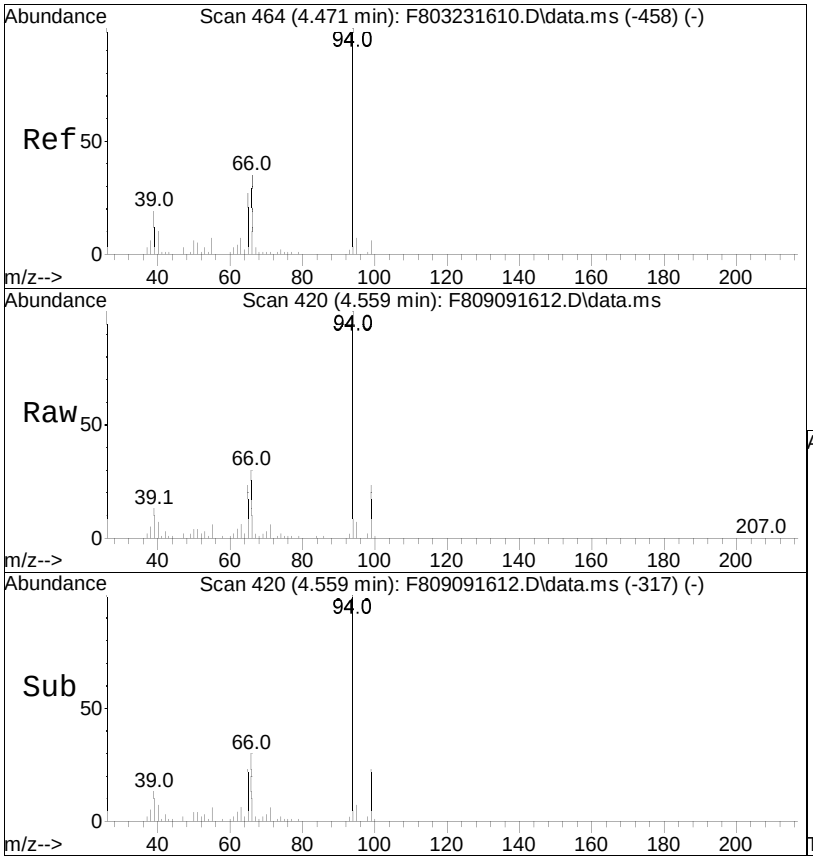


#7
bis(2-Chloroethyl)ether
Concen: 6.43 ug/mL
RT: 4.636 min Scan# 436
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion: 63 Resp: 216436

Ion	Ratio	Lower	Upper
63	100		
93	158.7	123.0	184.4
95	51.4	41.1	61.7

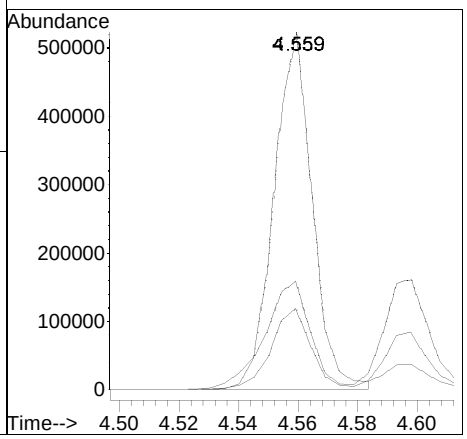


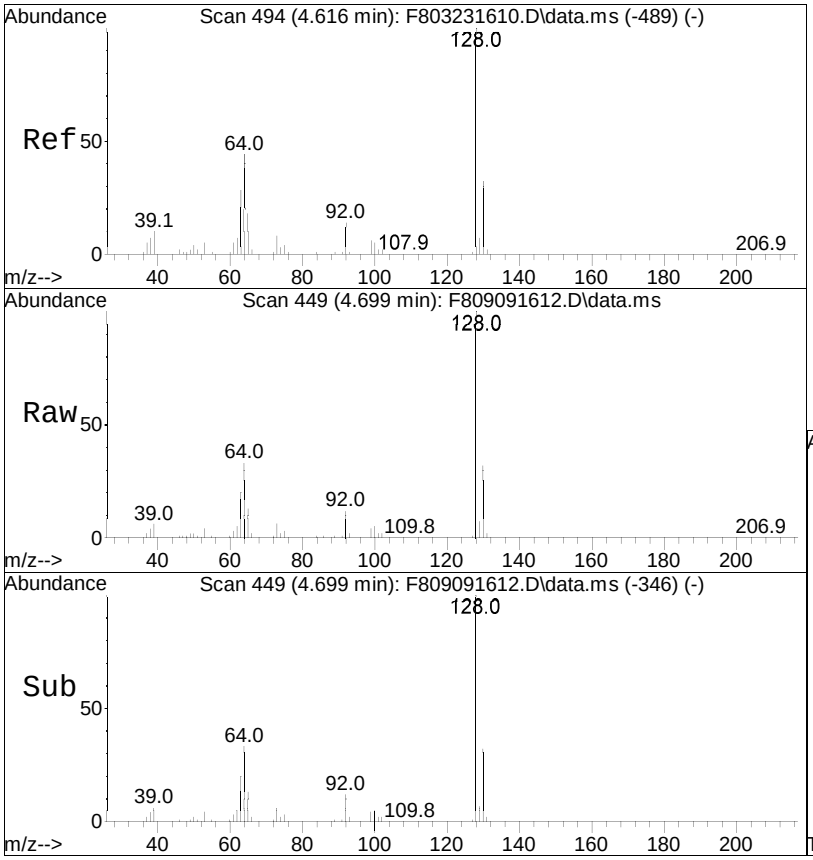


#9
Phenol
Concen: 6.92 ug/mL
RT: 4.559 min Scan# 420
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion: 94 Resp: 463716

Ion	Ratio	Lower	Upper
94	100		
66	38.3	21.7	32.5#
65	24.7	17.6	26.4

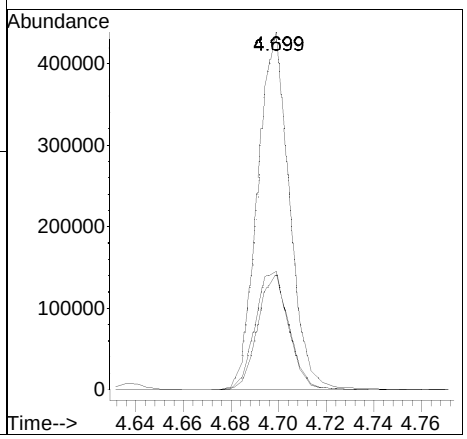


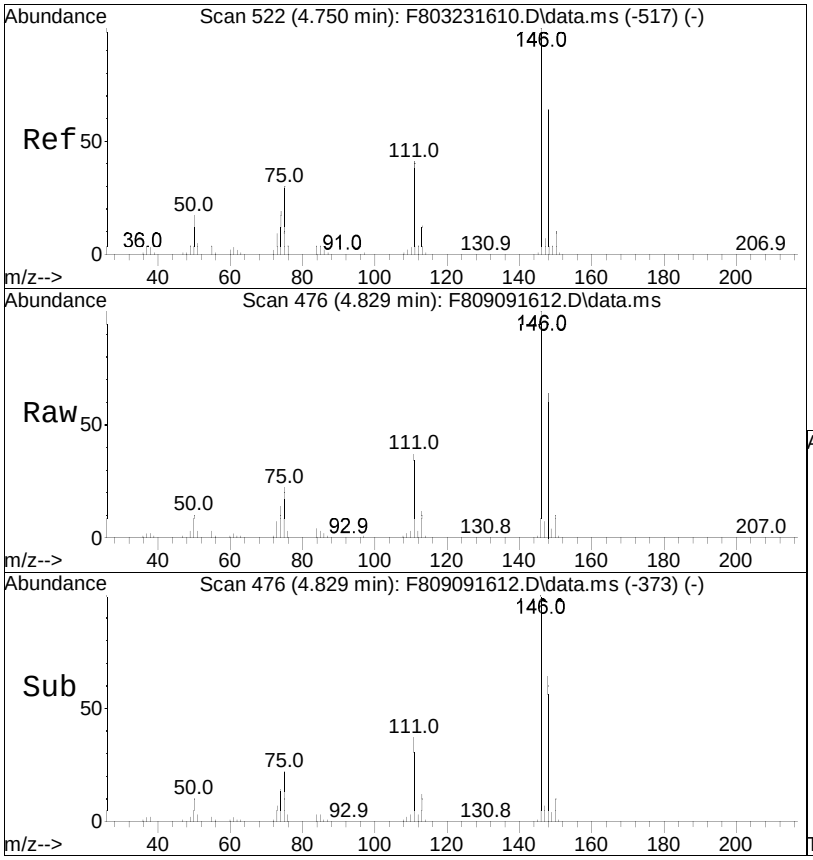


#10
2-Chlorophenol
Concen: 6.64 ug/mL
RT: 4.699 min Scan# 449
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:128 Resp: 403492

Ion	Ratio	Lower	Upper
128	100		
64	34.9	27.6	41.4
130	32.4	26.2	39.4

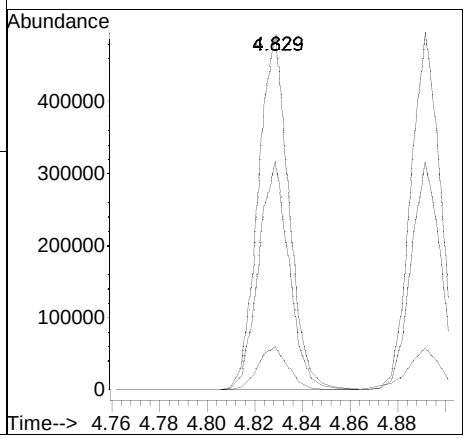


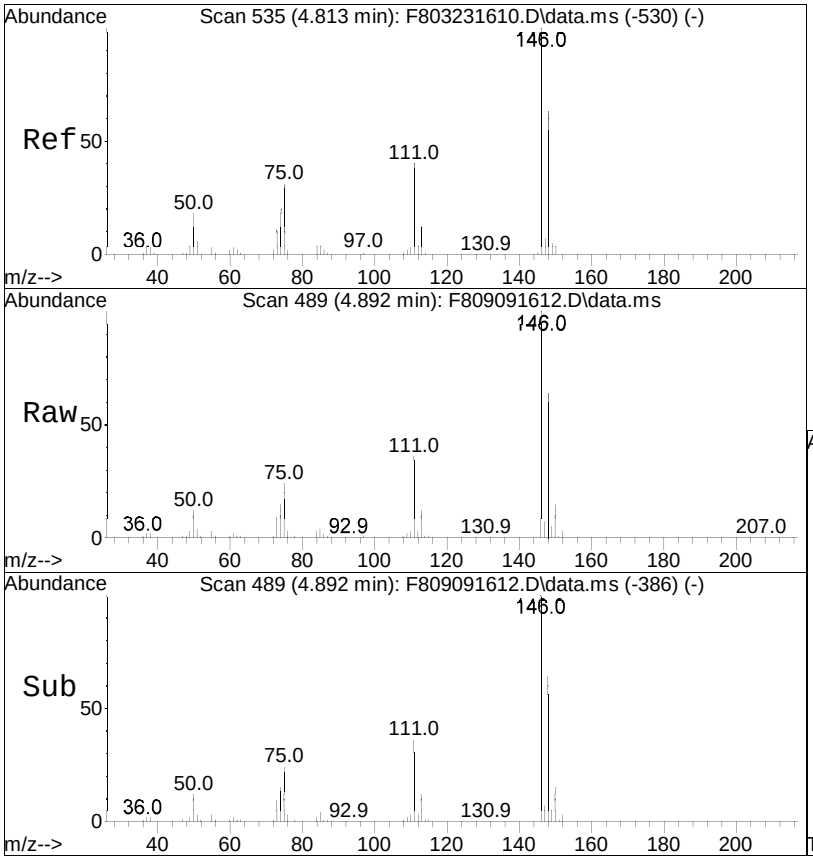


#11
1,3-Dichlorobenzene
Concen: 6.61 ug/mL
RT: 4.829 min Scan# 476
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:146 Resp: 442778

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.0	76.6
113	11.9	9.7	14.5

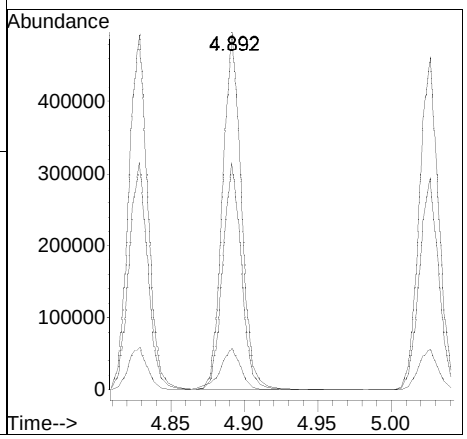


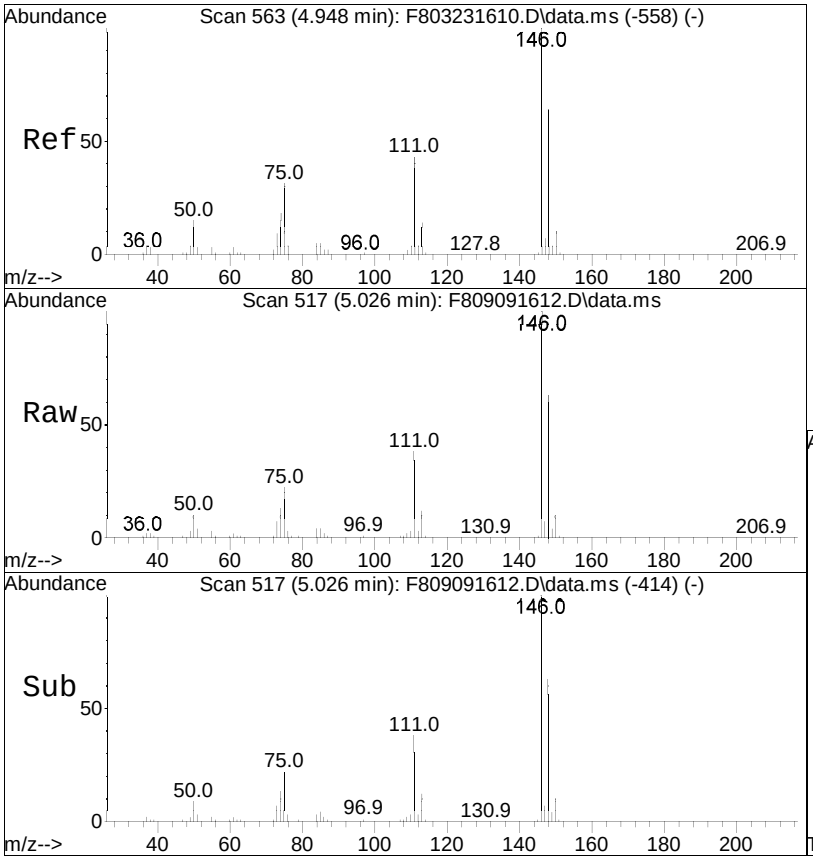


#12
1,4-Dichlorobenzene
Concen: 6.63 ug/mL M4
RT: 4.892 min Scan# 489
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:146 Resp: 442121

Ion	Ratio	Lower	Upper
146	100		
148	62.7	51.2	76.8
113	12.7	9.1	13.7

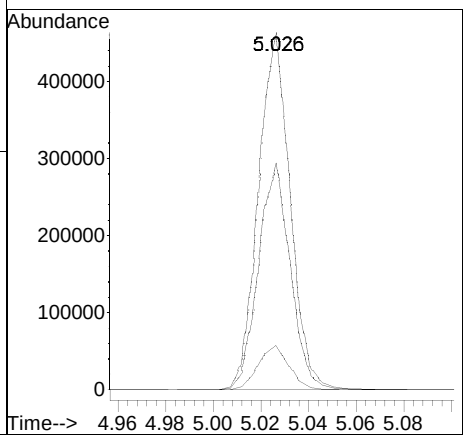


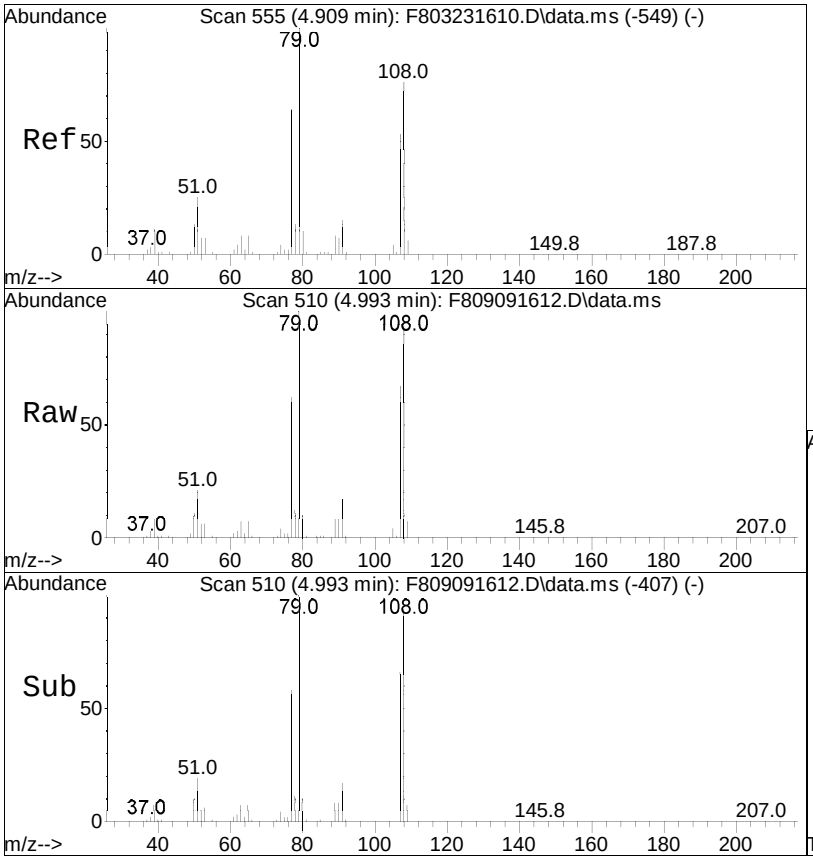


#13
1,2-Dichlorobenzene
Concen: 6.69 ug/mL
RT: 5.026 min Scan# 517
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:146 Resp: 423918

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.0	76.6
113	12.3	10.0	15.0

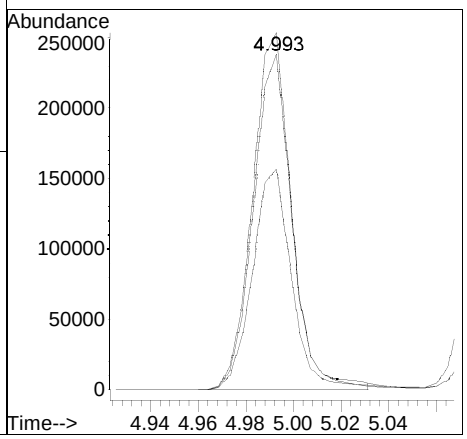


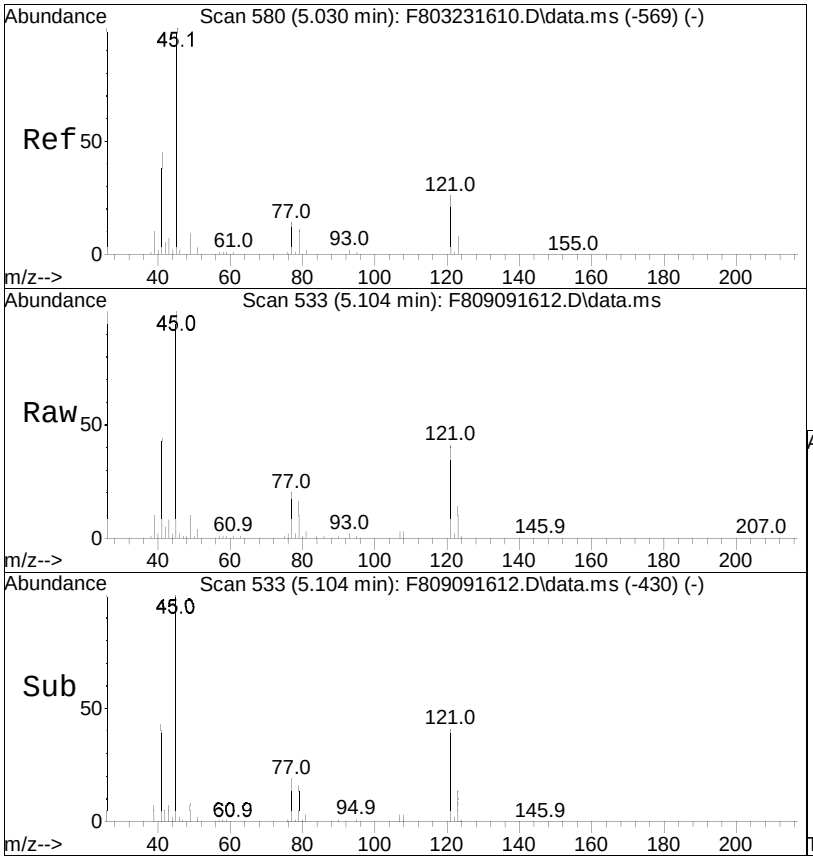


#14
Benzyl alcohol
Concen: 7.44 ug/mL
RT: 4.993 min Scan# 510
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:108 Resp: 268541

Ion	Ratio	Lower	Upper
108	100		
79	106.6	84.5	126.7
77	66.6	52.9	79.3

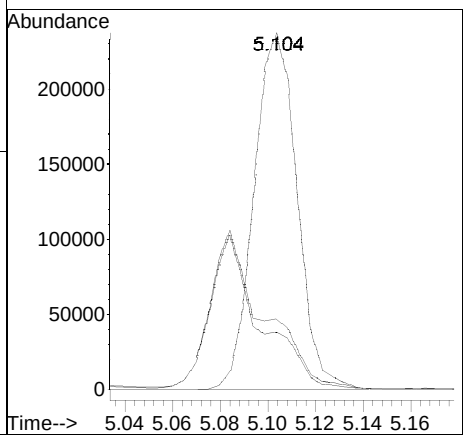


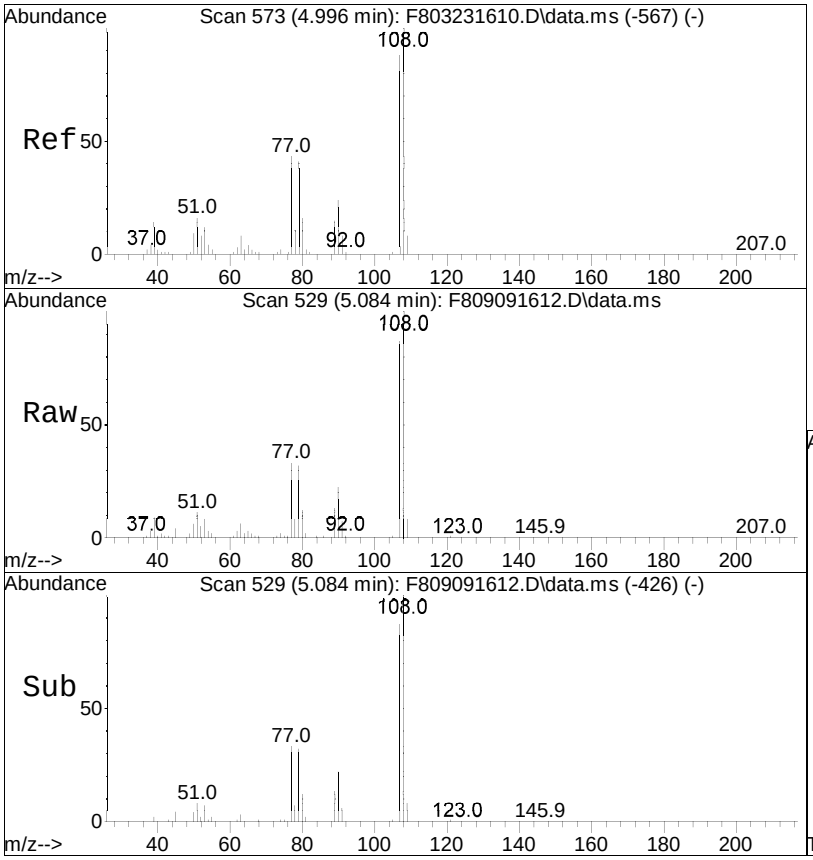


#15
bis(2-chloroisopropyl)ether
Concen: 6.35 ug/mL
RT: 5.104 min Scan# 533
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion: 45 Resp: 296783

Ion	Ratio	Lower	Upper
45	100		
77	54.7	13.2	19.8#
79	49.3	10.9	16.3#

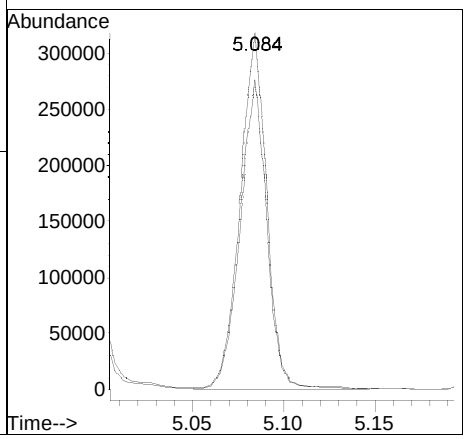


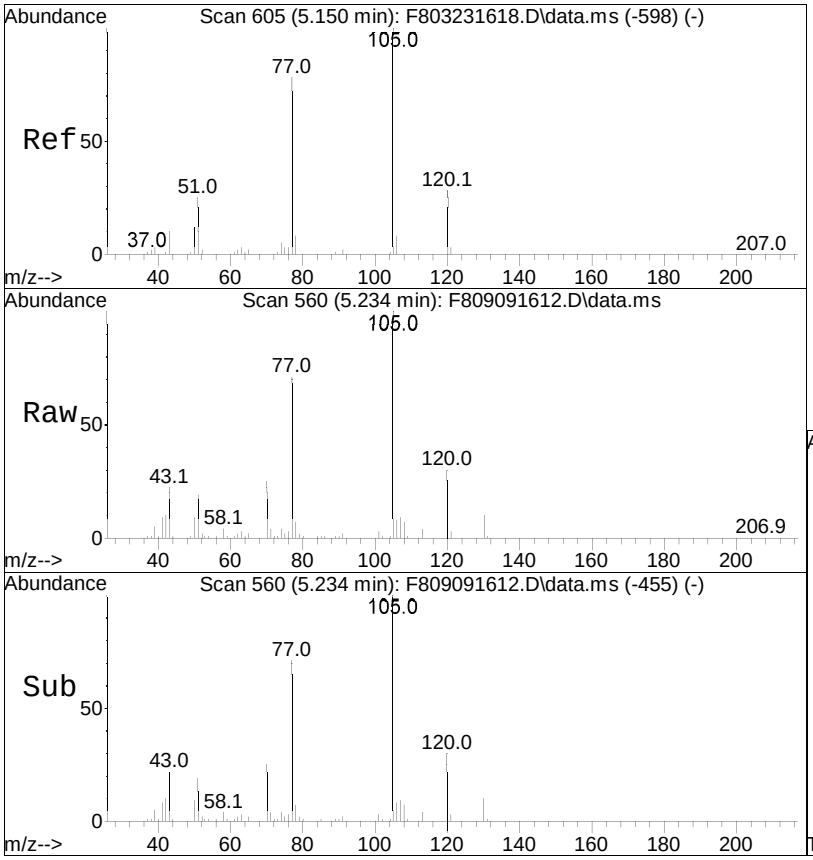


#16
2-Methylphenol
Concen: 6.84 ug/mL M4
RT: 5.084 min Scan# 529
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:108 Resp: 322519

Ion	Ratio	Lower	Upper
108	100		
107	85.8	68.1	102.1

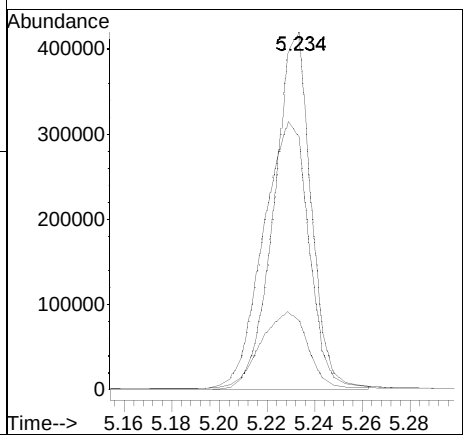


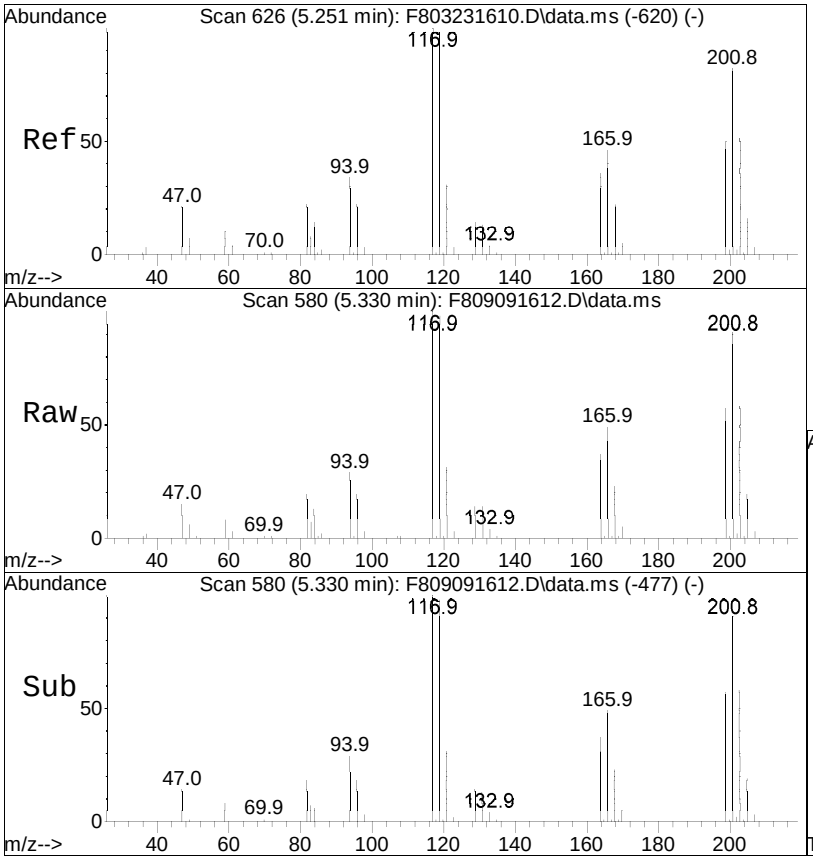


#17
Acetophenone
Concen: 6.22 ug/ml
RT: 5.234 min Scan# 560
Delta R.T. 0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:105 Resp: 448405

Ion	Ratio	Lower	Upper
105	100		
77	93.1	57.7	86.5#
51	27.8	17.1	25.7#

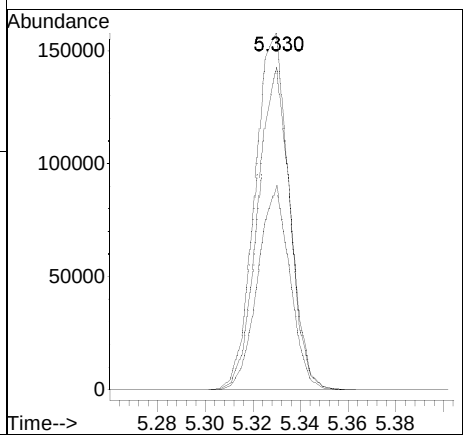


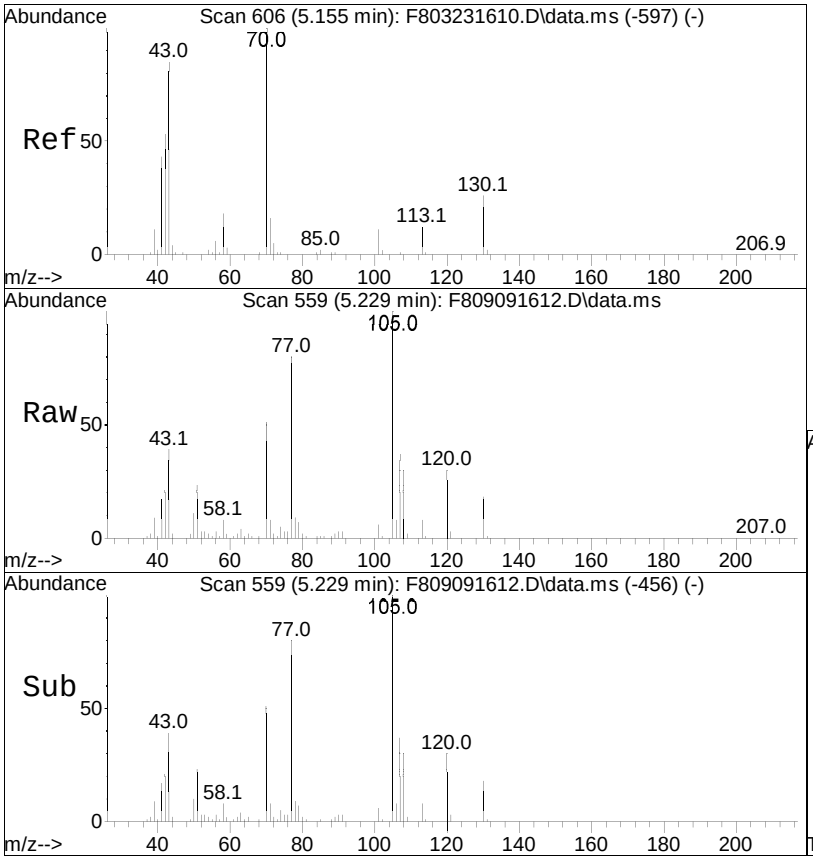


#18
Hexachloroethane
Concen: 6.40 ug/mL
RT: 5.330 min Scan# 580
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:117 Resp: 155833

Ion	Ratio	Lower	Upper
117	100		
201	86.7	62.8	94.2
199	54.5	39.0	58.4

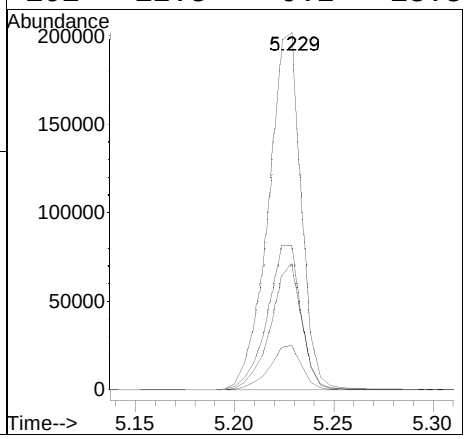


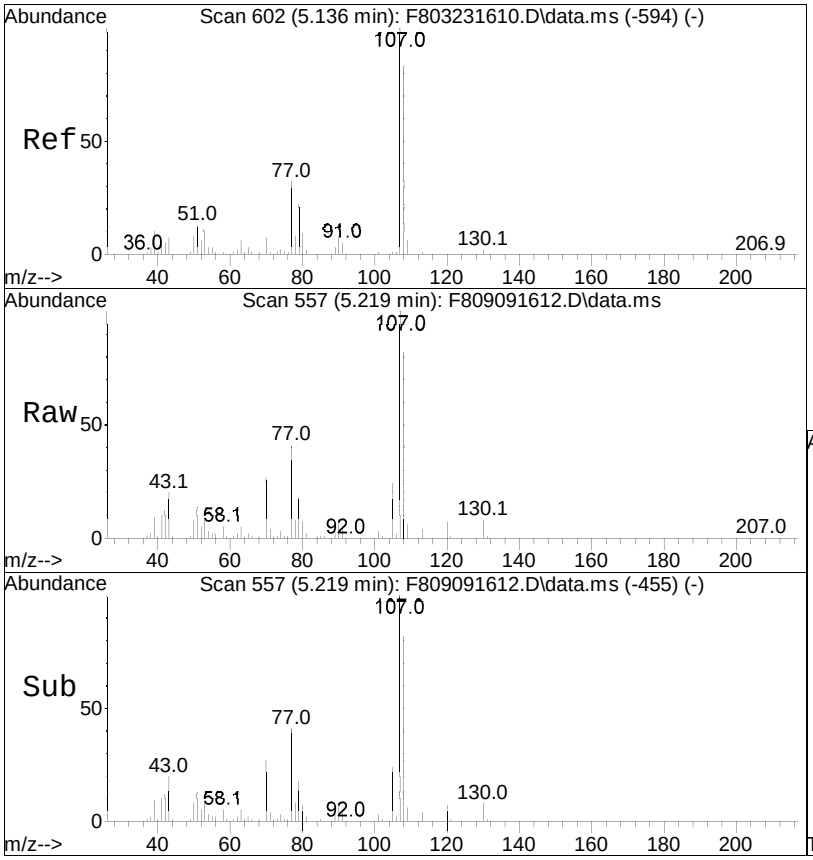


#19
N-Nitroso-di-n-propylamine
Concen: 6.99 ug/mL
RT: 5.229 min Scan# 559
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion: 70 Resp: 230386

Ion	Ratio	Lower	Upper
70	100		
42	42.0	37.1	55.7
130	33.9	24.0	36.0
101	12.3	9.2	13.8

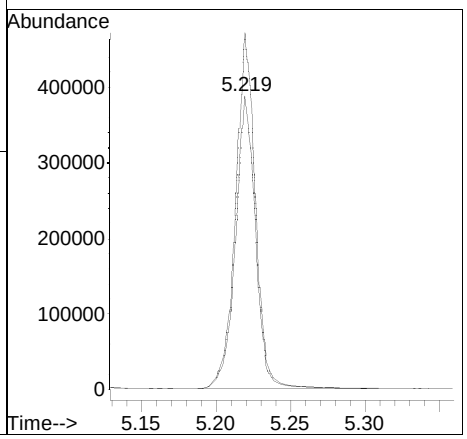


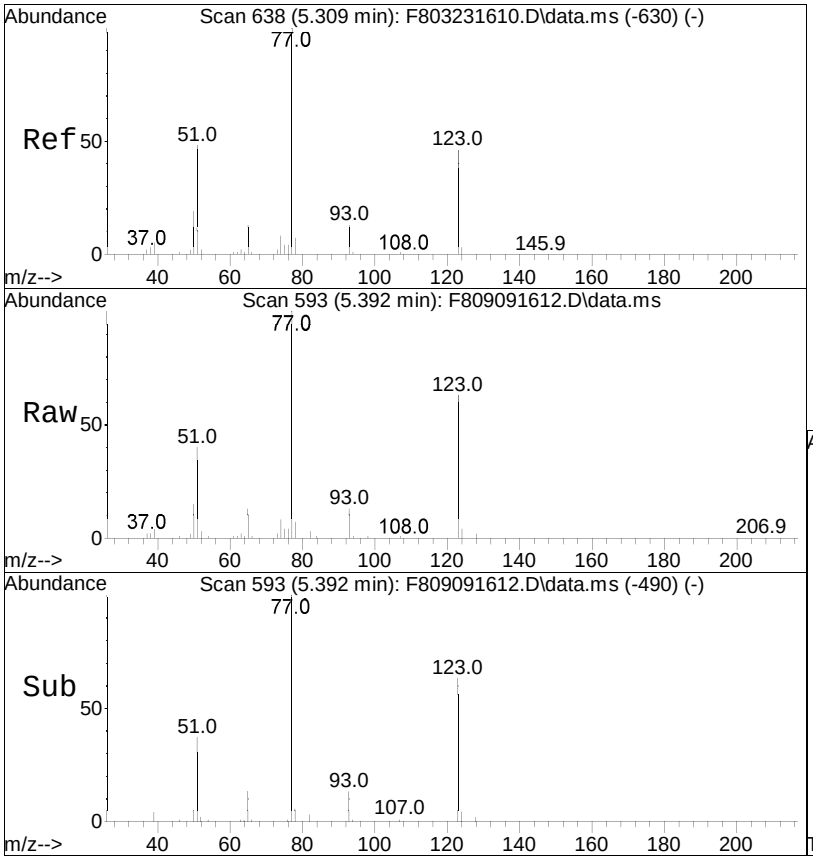


#20
4-Methylphenol
Concen: 7.17 ug/mL M4
RT: 5.219 min Scan# 557
Delta R.T. -0.009 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:108 Resp: 365170

Ion	Ratio	Lower	Upper
108	100		
107	118.8	94.6	142.0

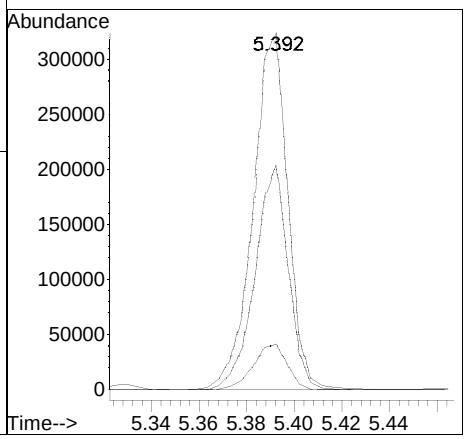


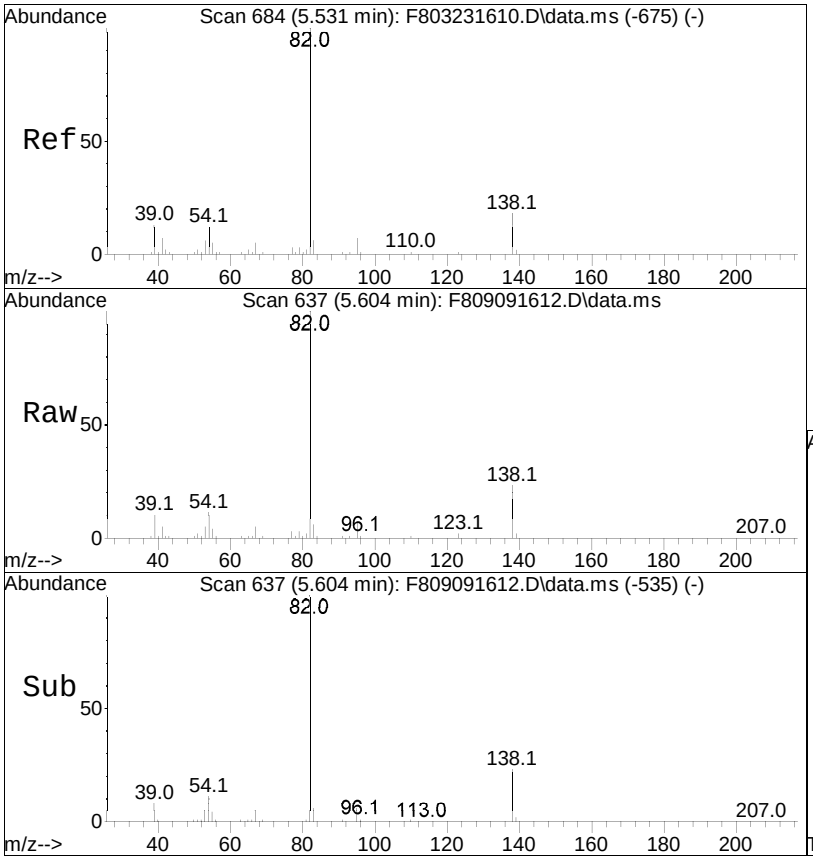


#23
Nitrobenzene
Concen: 6.70 ug/mL
RT: 5.392 min Scan# 593
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion: 77 Resp: 321440

Ion	Ratio	Lower	Upper
77	100		
123	61.4	45.4	68.2
65	13.1	10.2	15.4

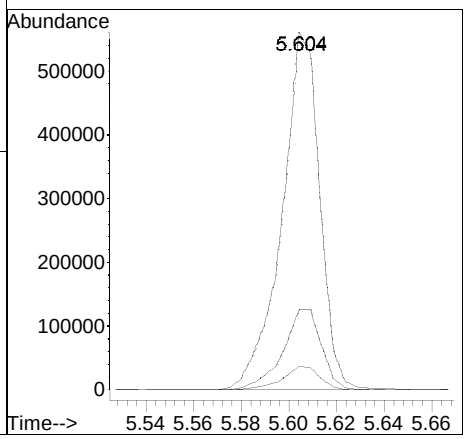


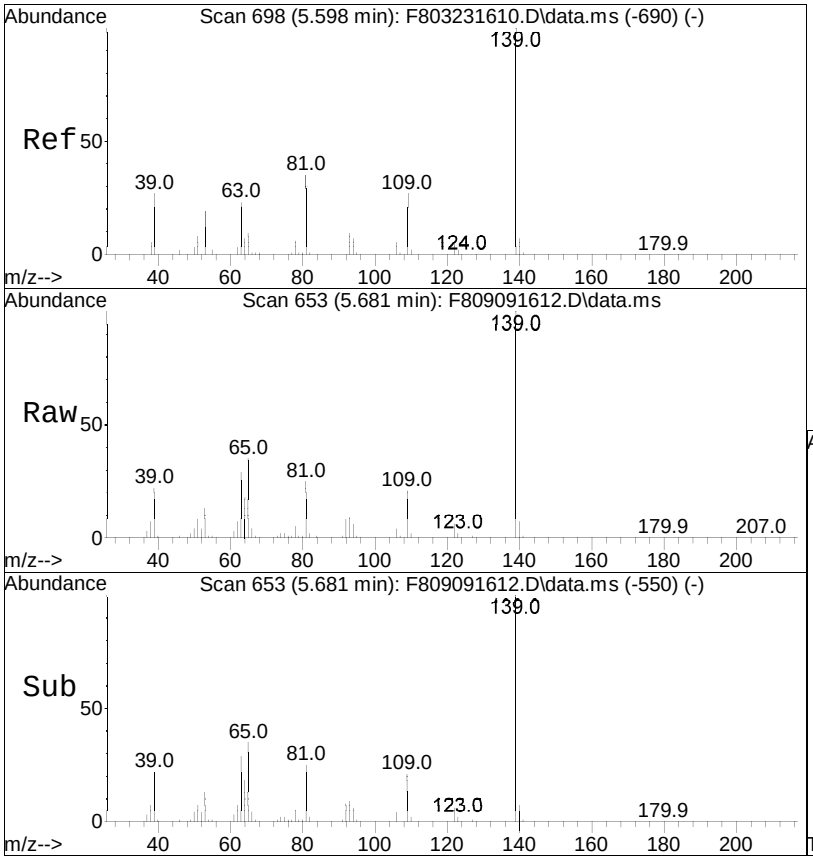


#24
Isophorone
Concen: 7.91 ug/mL
RT: 5.604 min Scan# 637
Delta R.T. -0.009 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion: 82 Resp: 610680

Ion	Ratio	Lower	Upper
82	100		
138	23.2	17.0	25.4
95	6.6	4.9	7.3

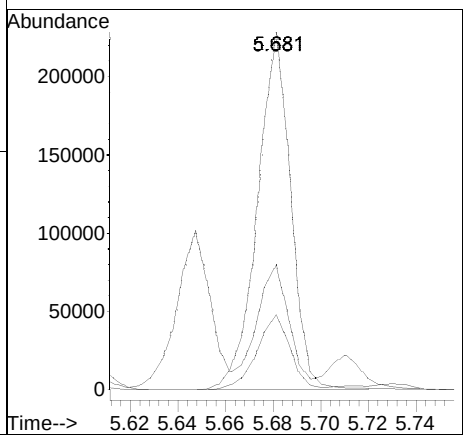


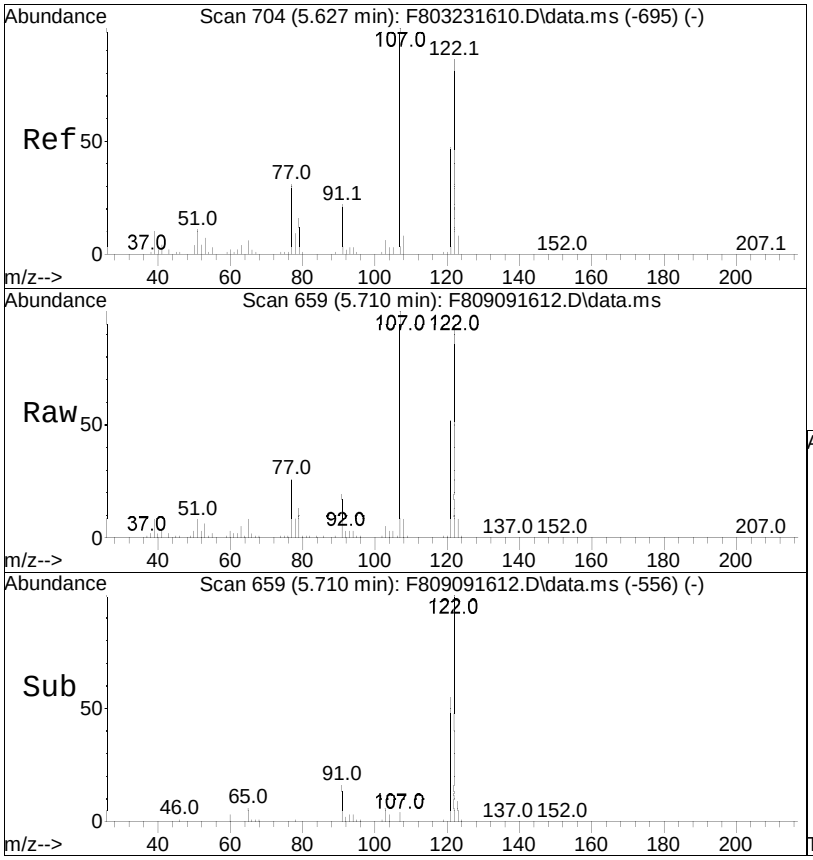


#25
2-Nitrophenol
Concen: 7.03 ug/mL
RT: 5.681 min Scan# 653
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:139 Resp: 220626

Ion	Ratio	Lower	Upper
139	100		
65	44.5	28.4	42.6#
109	21.4	16.3	24.5

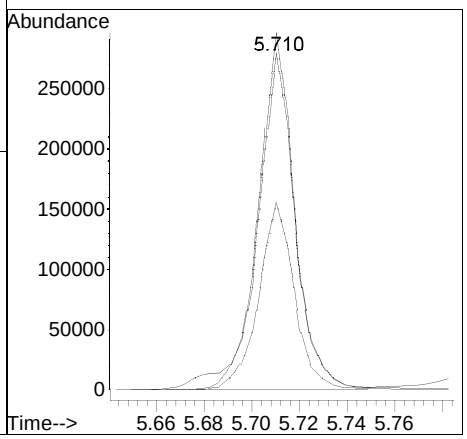


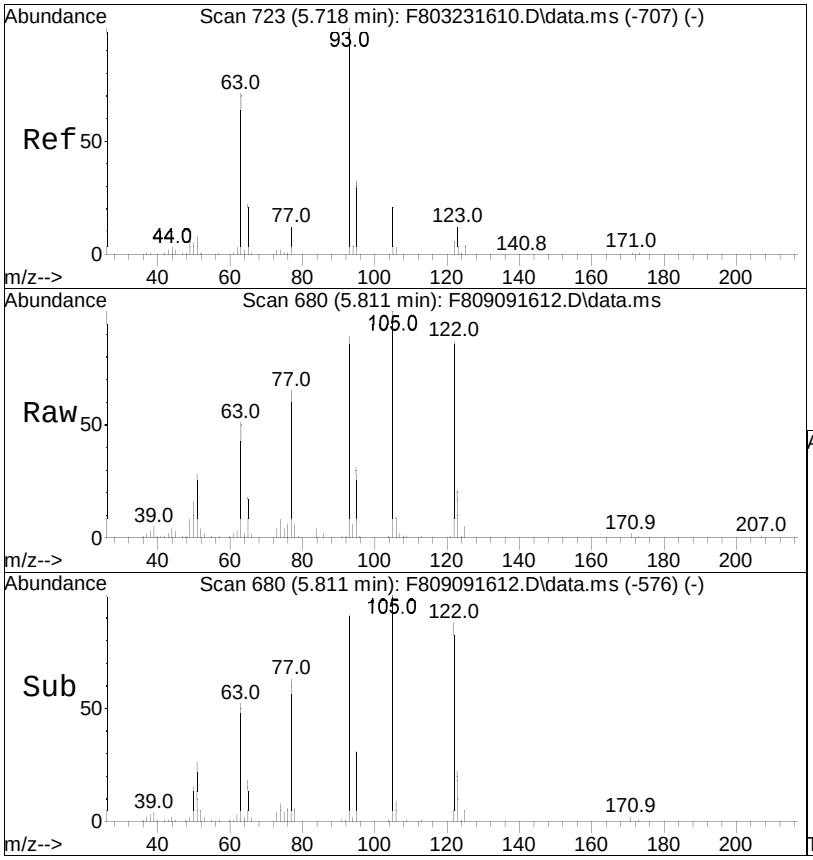


#26
2,4-Dimethylphenol
Concen: 6.19 ug/mL
RT: 5.710 min Scan# 659
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:107 Resp: 308782

Ion	Ratio	Lower	Upper
107	100		
122	93.8	78.4	117.6
121	52.8	43.0	64.6

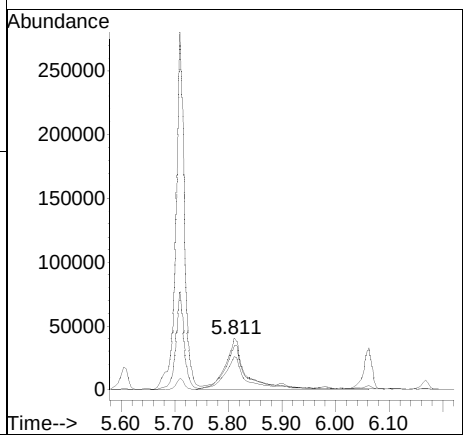


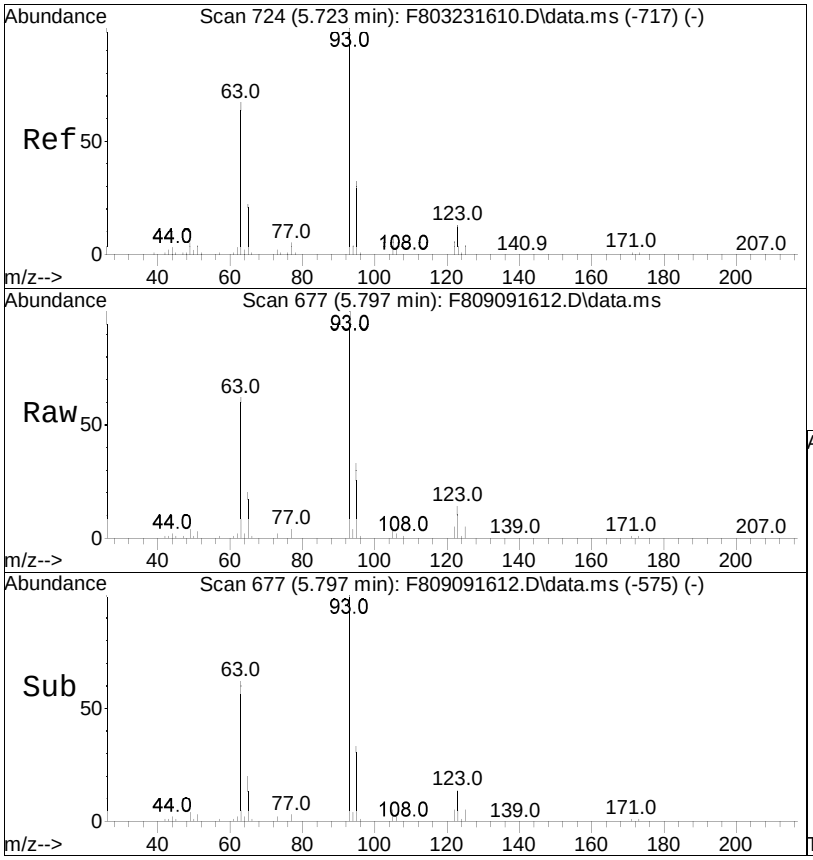


#27
Benzoic acid
Concen: 10.32 ug/mL M4
RT: 5.811 min Scan# 680
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:105 Resp: 114641

Ion	Ratio	Lower	Upper
105	100		
122	75.6	70.9	106.3
77	49.4	53.4	80.0#

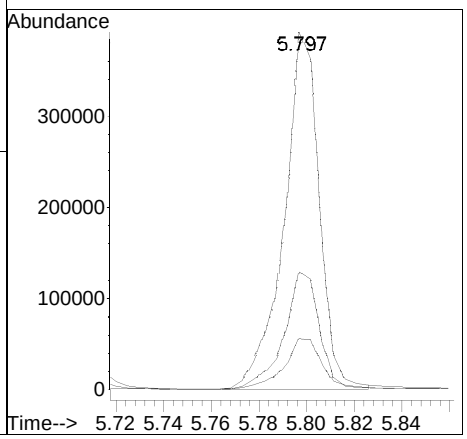


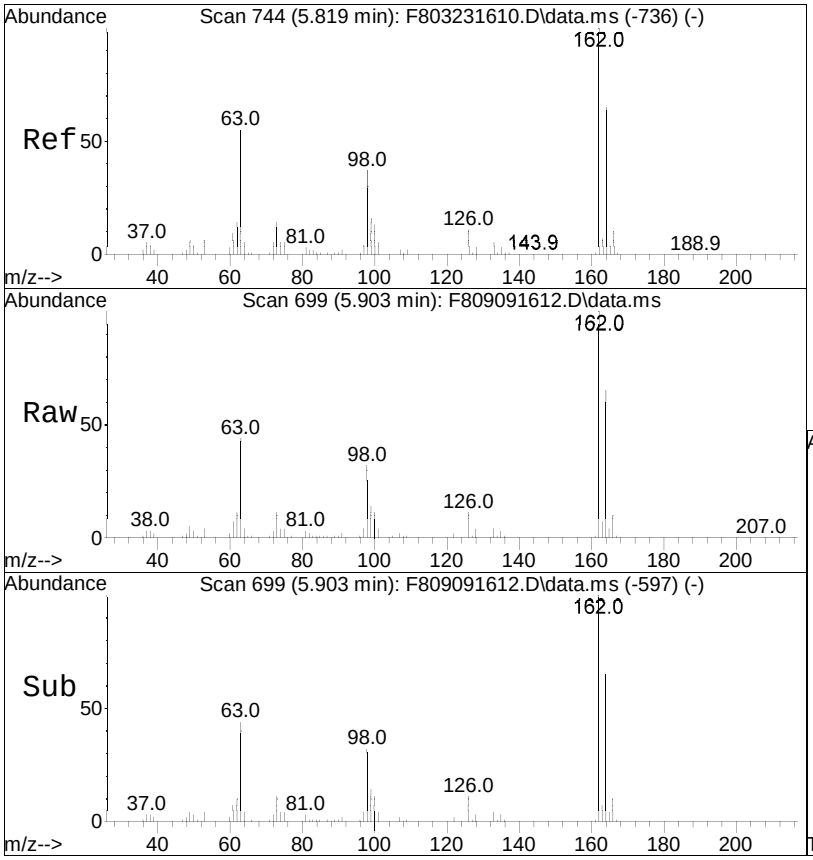


#28
bis(2-Chloroethoxy)methane
Concen: 7.16 ug/mL
RT: 5.797 min Scan# 677
Delta R.T. -0.009 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion: 93 Resp: 400538

Ion	Ratio	Lower	Upper
93	100		
95	33.3	26.7	40.1
123	15.5	11.9	17.9

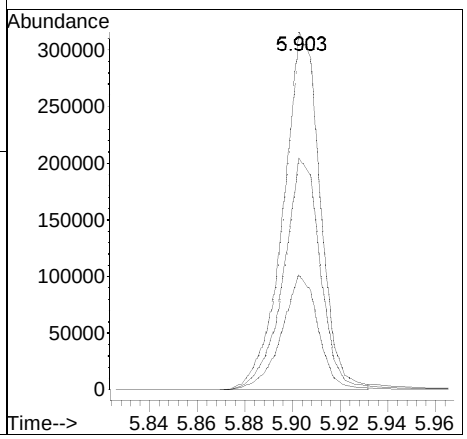


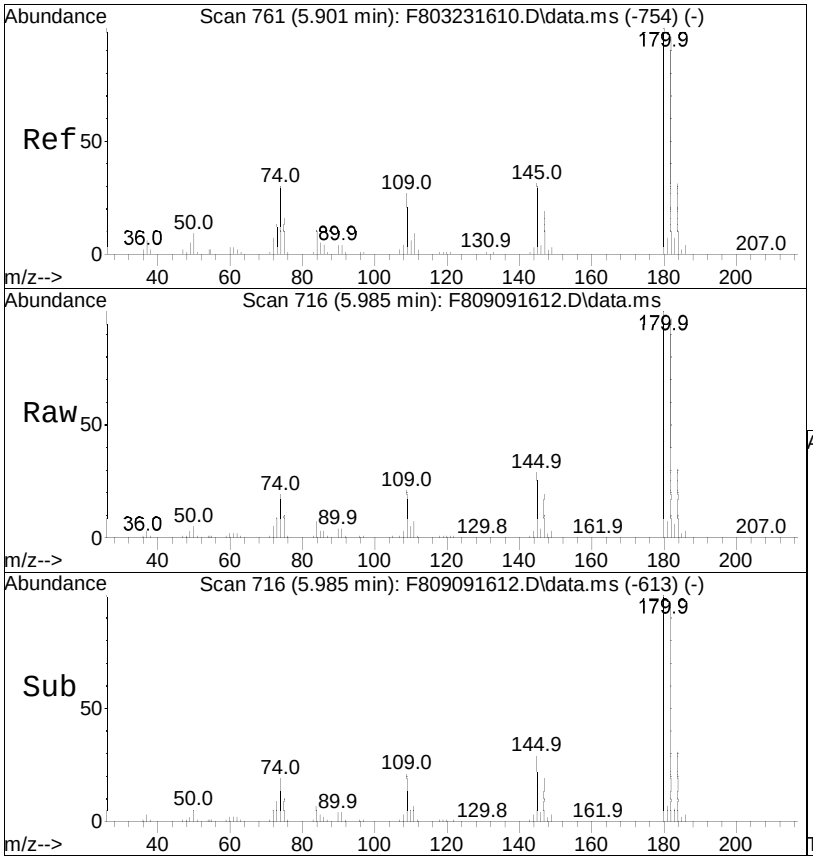


#29
2,4-Dichlorophenol
Concen: 7.41 ug/mL
RT: 5.903 min Scan# 699
Delta R.T. -0.009 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:162 Resp: 338065

Ion	Ratio	Lower	Upper
162	100		
164	65.1	50.8	76.2
98	31.9	26.3	39.5

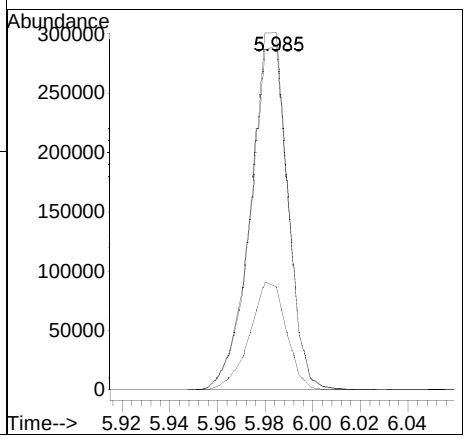


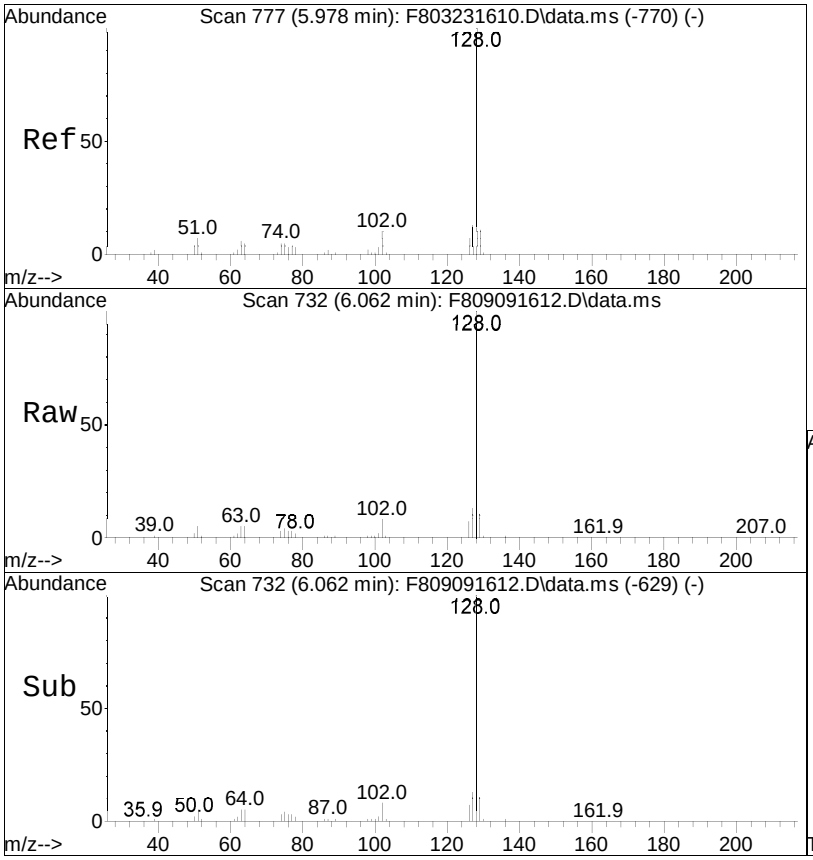


#30
1,2,4-Trichlorobenzene
Concen: 6.63 ug/mL
RT: 5.985 min Scan# 716
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:180 Resp: 328714

Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.2	114.4
145	29.9	23.6	35.4

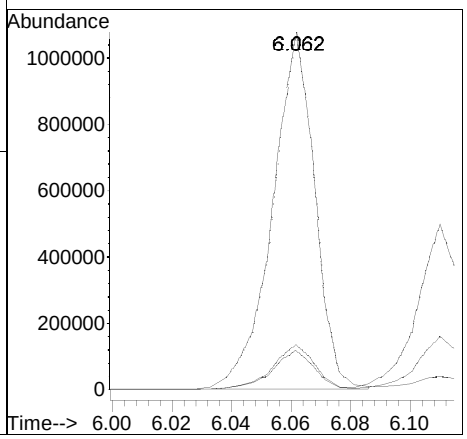


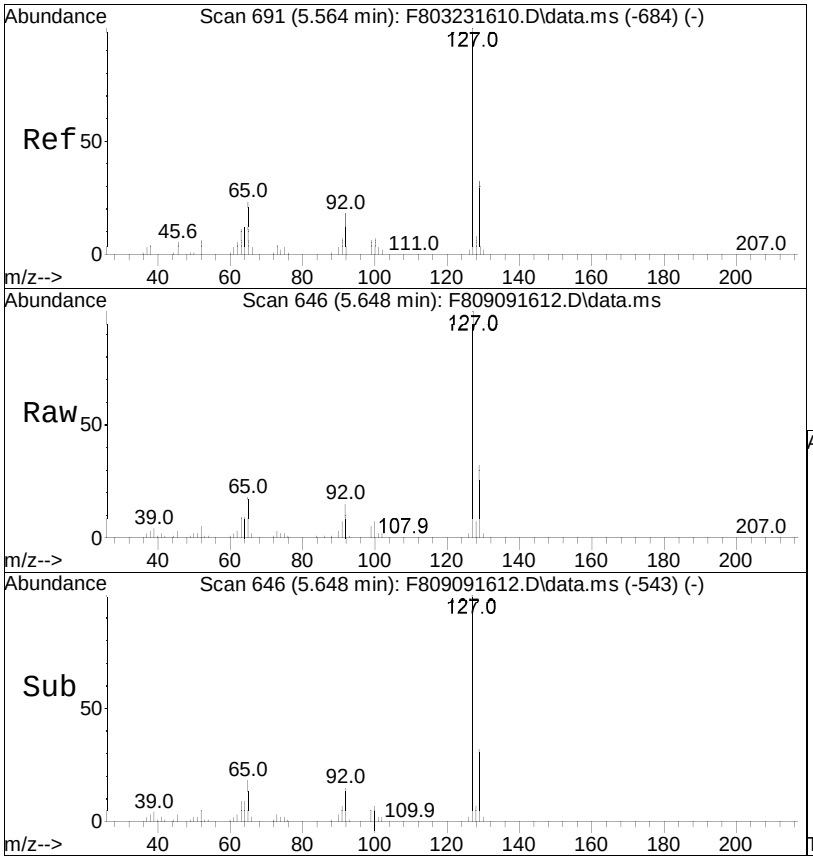


#31
Naphthalene
Concen: 6.65 ug/mL
RT: 6.062 min Scan# 732
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:128 Resp: 1057814

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.4
127	13.2	10.0	15.0

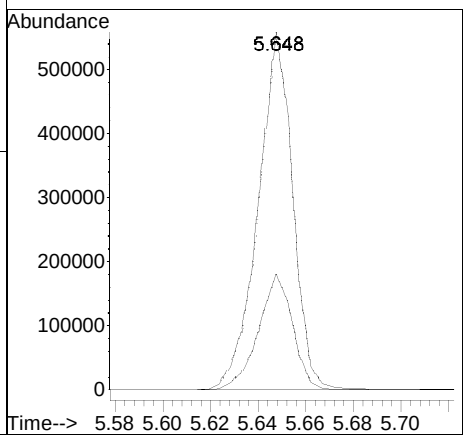


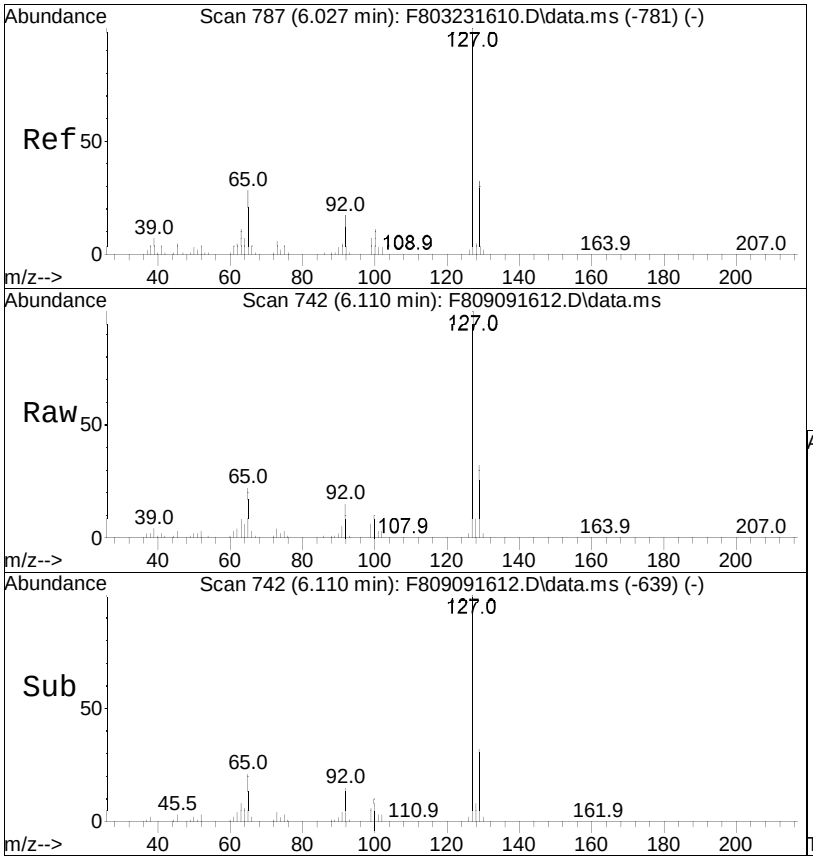


#32
2-Chloroaniline
Concen: 6.97 ug/ml
RT: 5.648 min Scan# 646
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:127 Resp: 558938

Ion	Ratio	Lower	Upper
127	100		
129	32.3	26.2	39.4

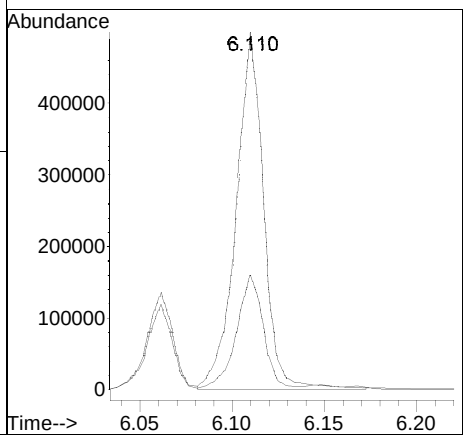


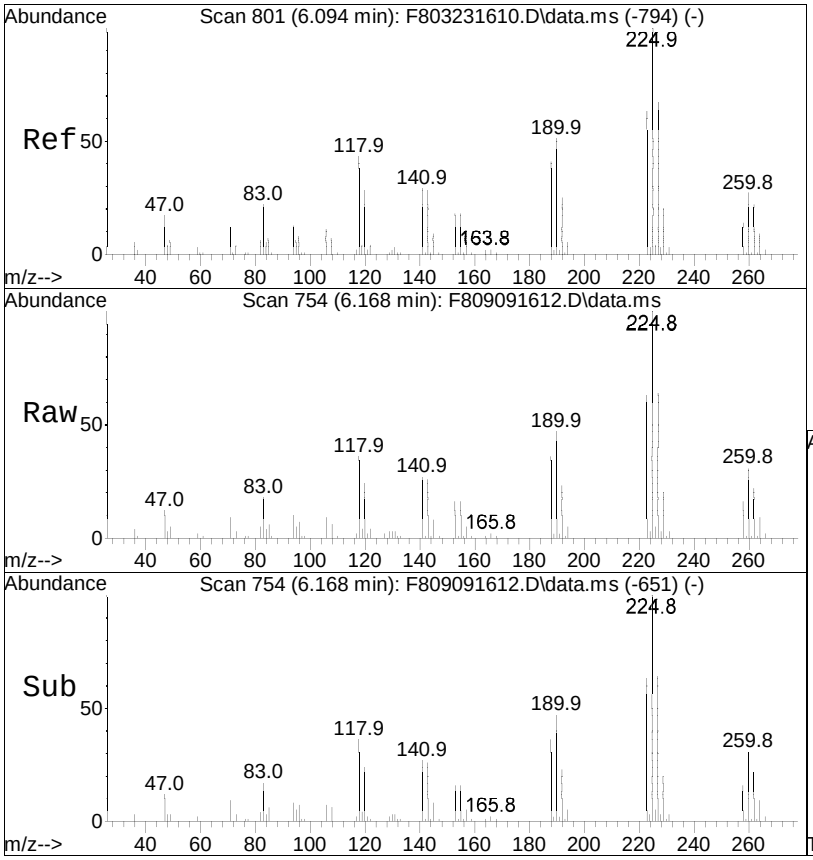


#33
4-Chloroaniline
Concen: 7.45 ug/mL M4
RT: 6.110 min Scan# 742
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:127 Resp: 510085

Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.8	38.6

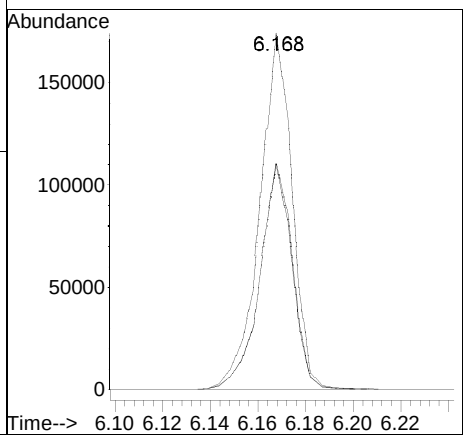


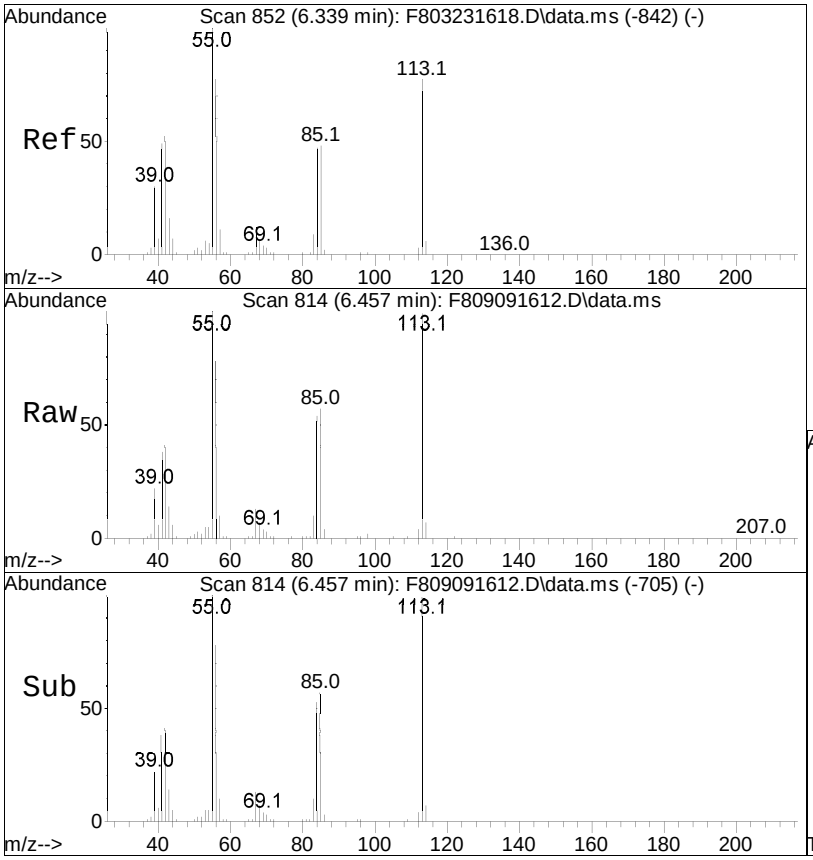


#34
Hexachlorobutadiene
Concen: 6.51 ug/mL
RT: 6.168 min Scan# 754
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:225 Resp: 164036

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.8	76.2
227	64.3	51.1	76.7

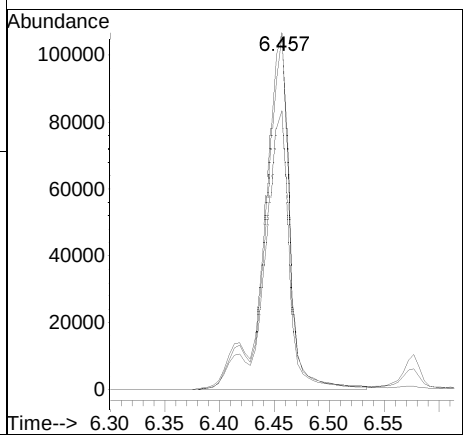


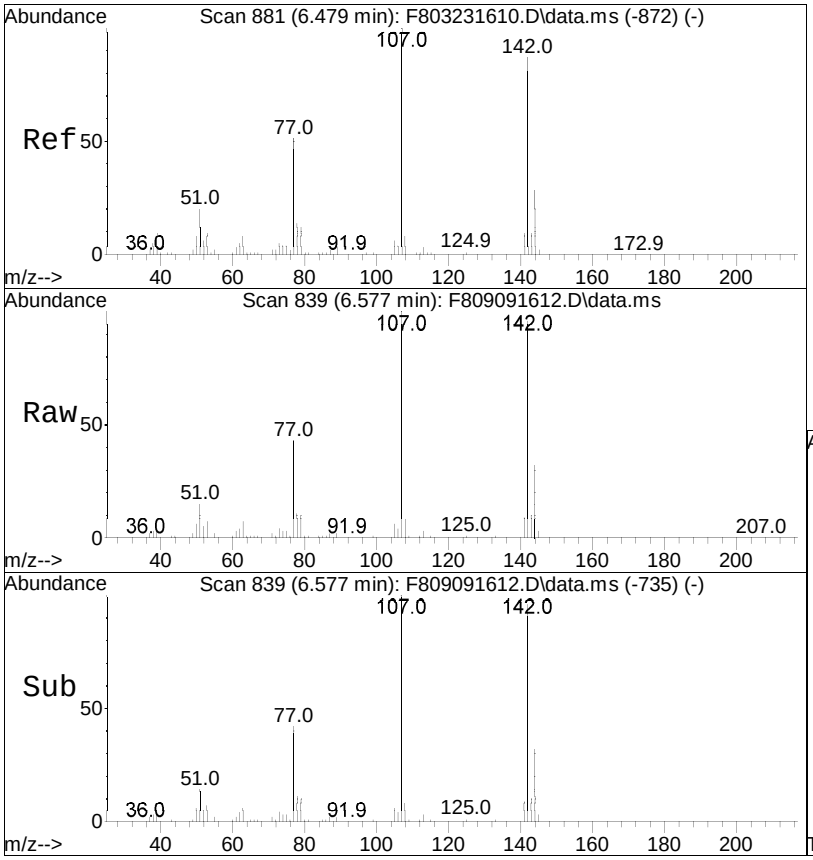


#35
Caprolactam
Concen: 11.07 ug/ml M4
RT: 6.457 min Scan# 814
Delta R.T. 0.024 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:113 Resp: 163581

Ion	Ratio	Lower	Upper
113	100		
55	102.8	82.6	123.8
56	79.7	63.0	94.6

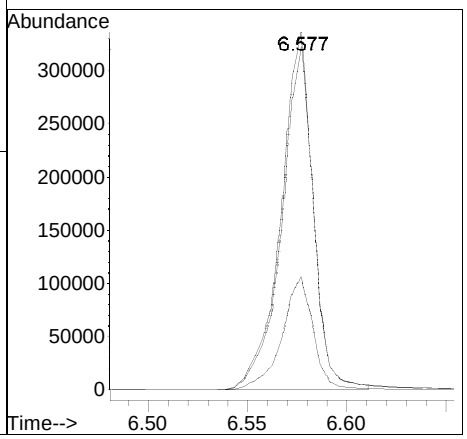


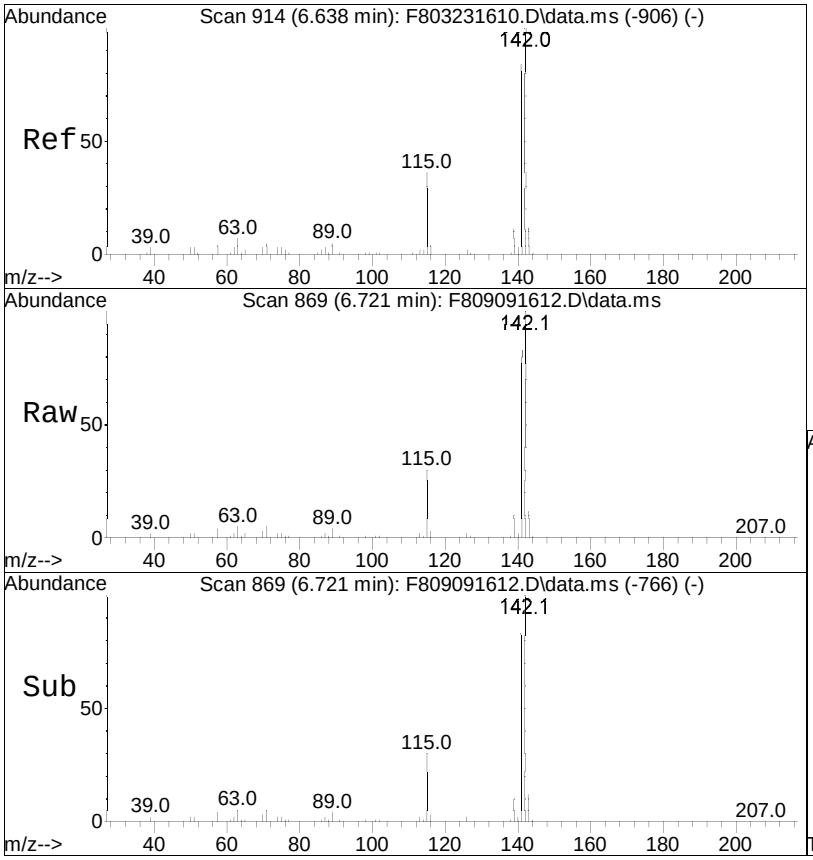


#36
4-Chloro-3-methylphenol
Concen: 8.57 ug/mL
RT: 6.577 min Scan# 839
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:107 Resp: 376925

Ion	Ratio	Lower	Upper
107	100		
144	30.7	24.3	36.5
142	94.7	74.4	111.6

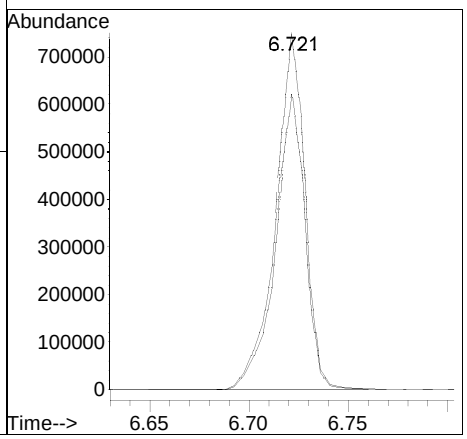


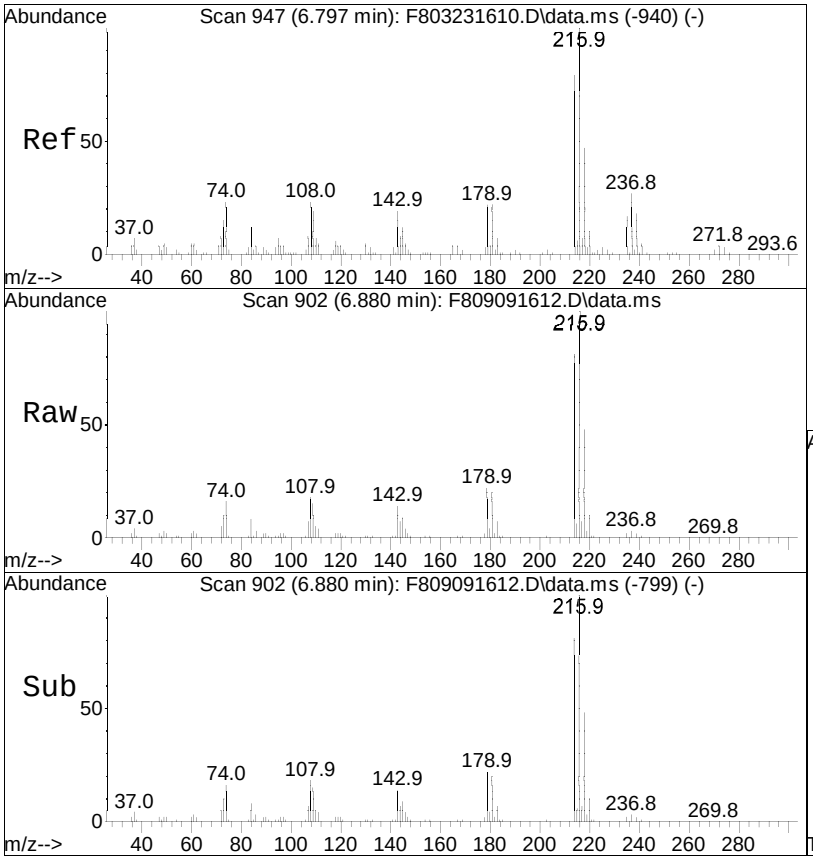


#37
2-Methylnaphthalene
Concen: 7.11 ug/mL
RT: 6.721 min Scan# 869
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:142 Resp: 767111

Ion	Ratio	Lower	Upper
142	100		
141	84.0	66.6	100.0

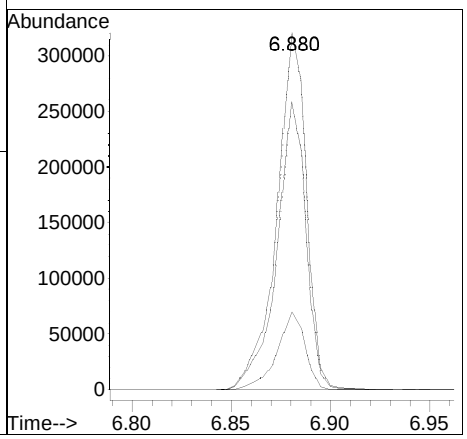


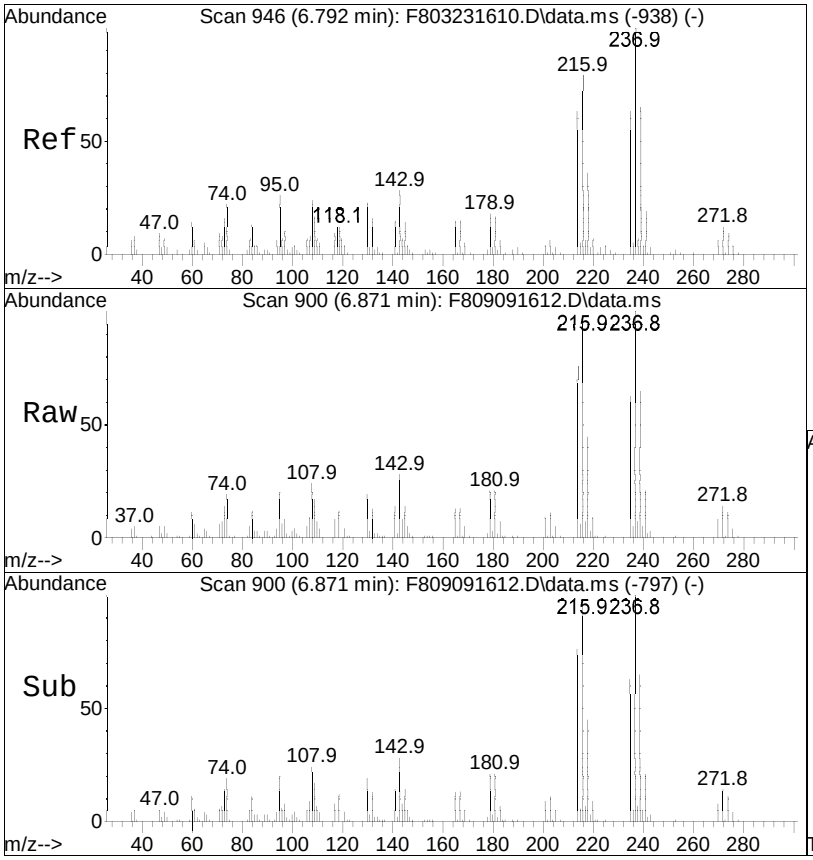


#39
1,2,4,5-Tetrachlorobenzene
Concen: 7.18 ug/mL
RT: 6.880 min Scan# 902
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:216 Resp: 333777

Ion	Ratio	Lower	Upper
216	100		
214	79.1	63.0	94.6
179	21.0	16.2	24.4

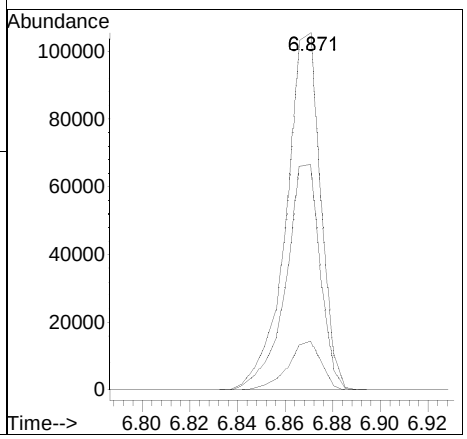


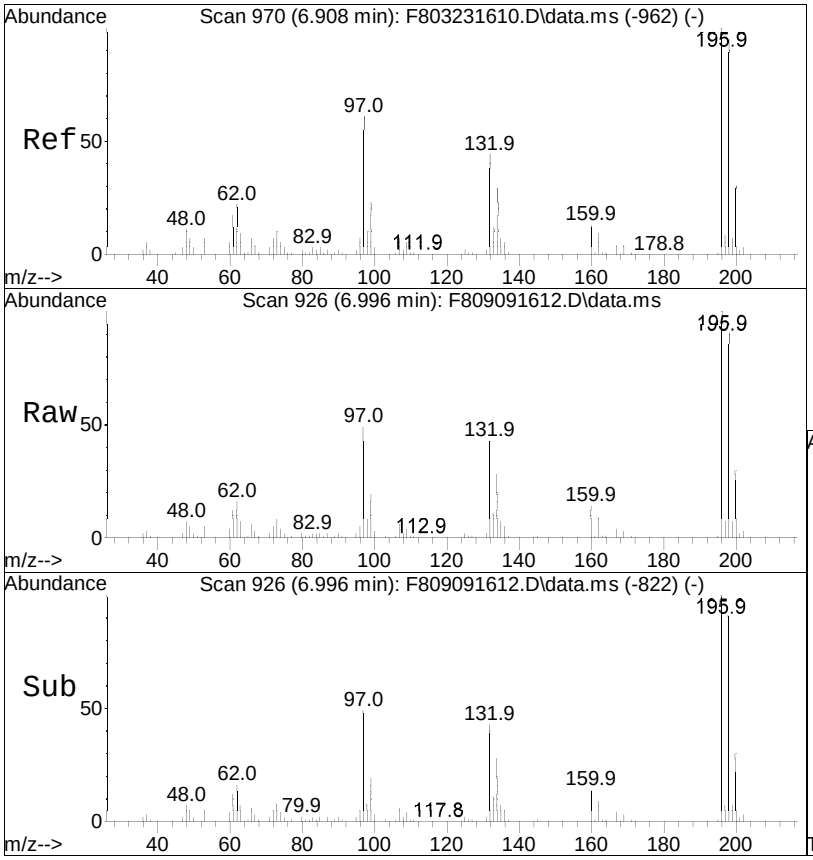


#40
Hexachlorocyclopentadiene
Concen: 5.32 ug/mL
RT: 6.871 min Scan# 900
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:237 Resp: 106513

Ion	Ratio	Lower	Upper
237	100		
235	63.0	53.3	79.9
272	13.2	10.9	16.3

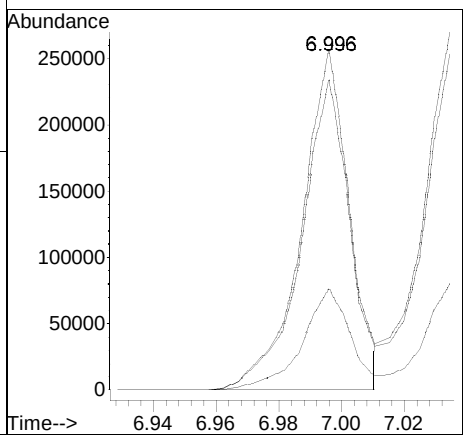


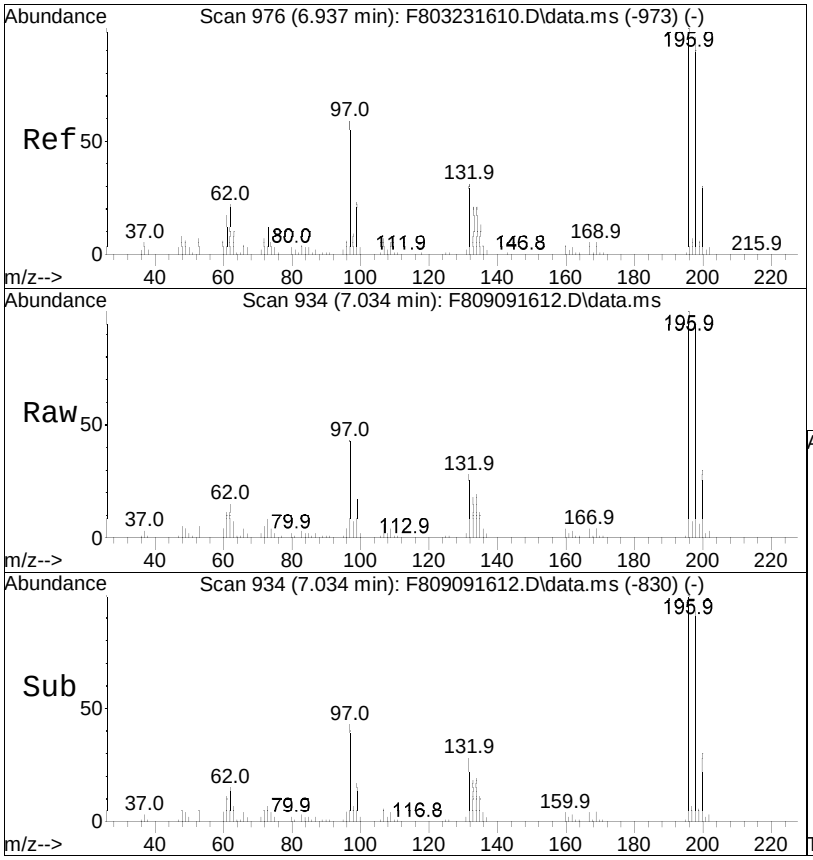


#41
2,4,6-Trichlorophenol
Concen: 8.13 ug/mL M6
RT: 6.996 min Scan# 926
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:196 Resp: 272474

Ion	Ratio	Lower	Upper
196	100		
198	96.2	73.6	110.4
200	31.1	23.5	35.3

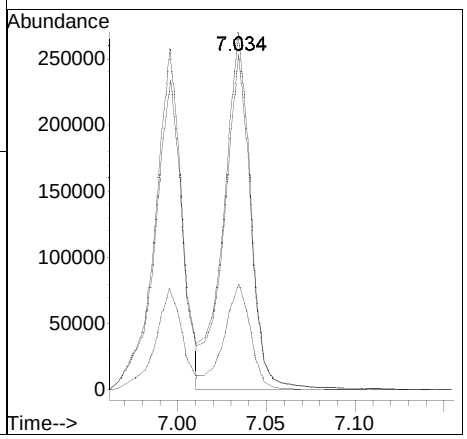


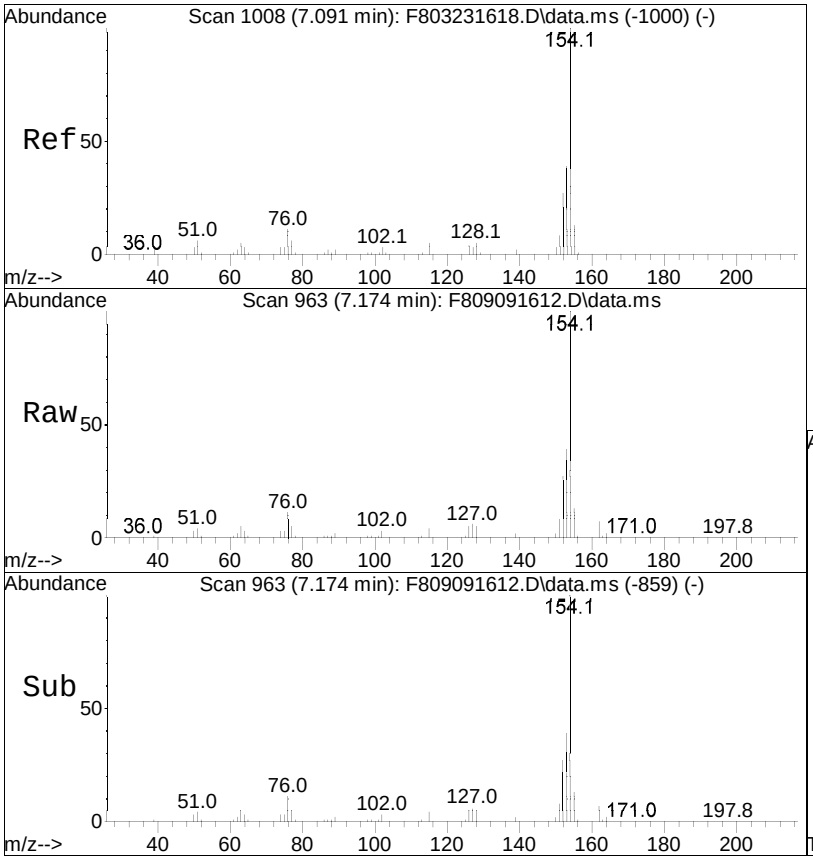


#42
2,4,5-Trichlorophenol
Concen: 9.59 ug/mL M6
RT: 7.034 min Scan# 934
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:196 Resp: 285632

Ion	Ratio	Lower	Upper
196	100		
198	89.9	73.2	109.8
200	28.8	23.9	35.9

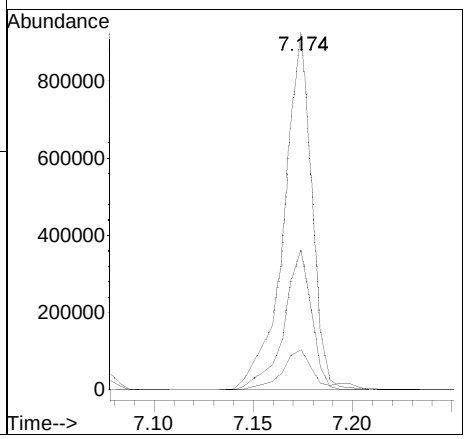


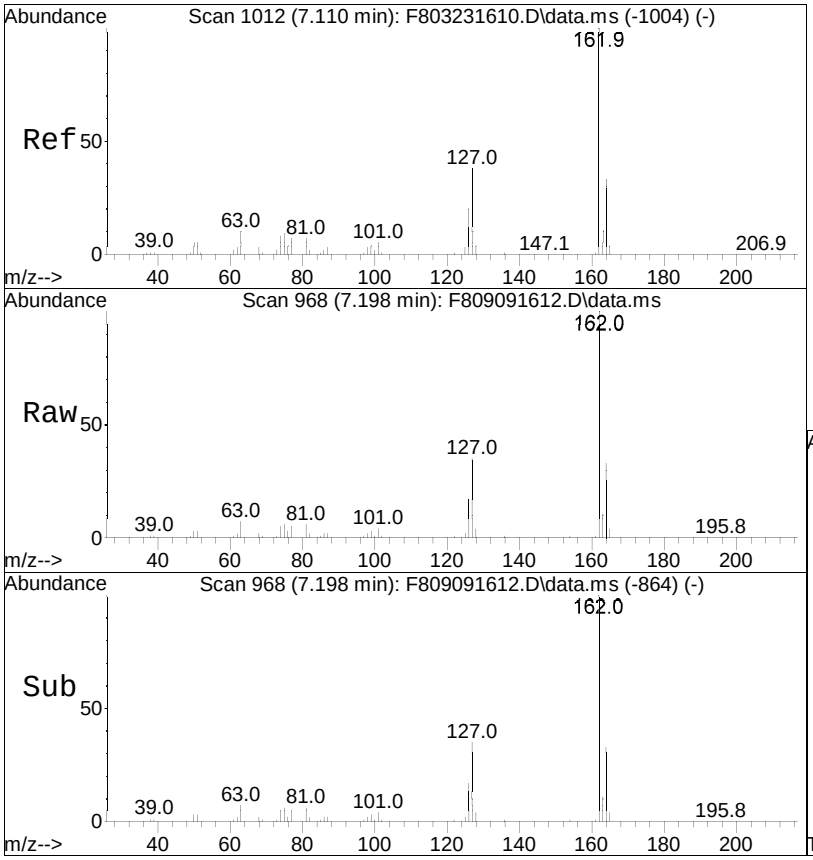


#44
Biphenyl
Concen: 7.06 ug/ml
RT: 7.174 min Scan# 963
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:154 Resp: 909621

Ion	Ratio	Lower	Upper
154	100		
153	39.0	31.4	47.0
76	13.7	9.8	14.6

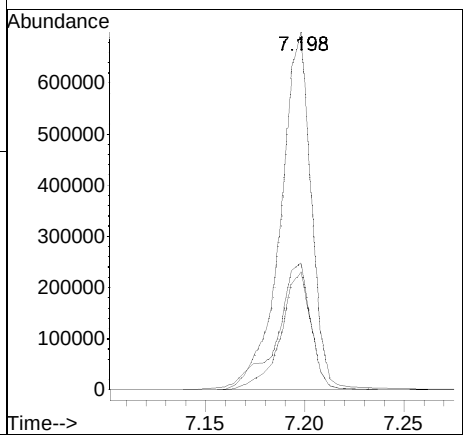


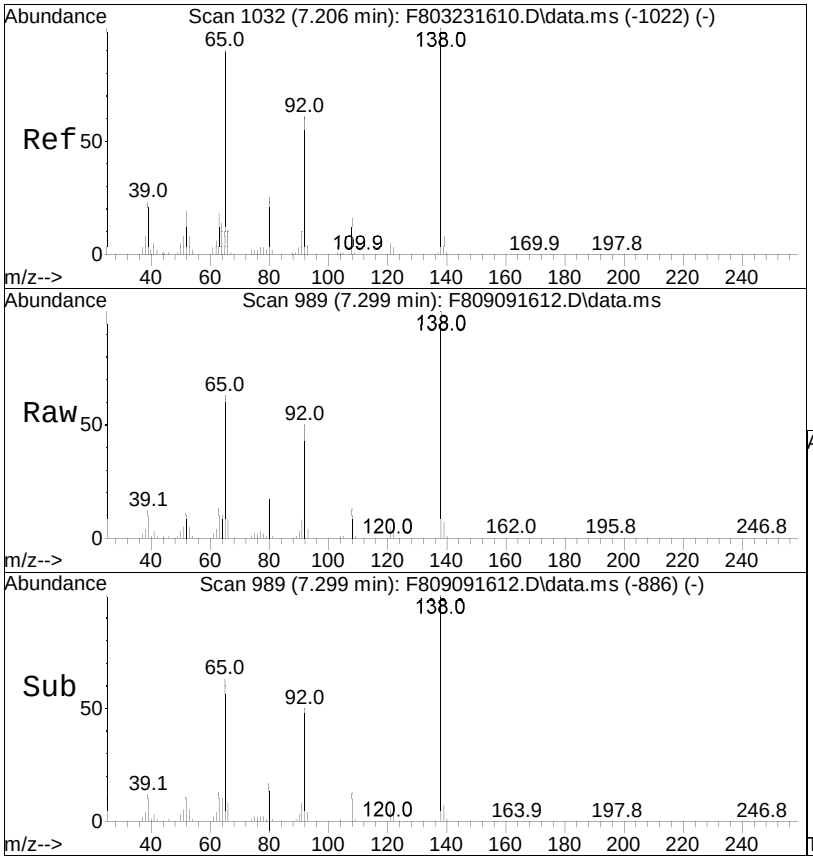


#45
2-Chloronaphthalene
Concen: 7.38 ug/mL
RT: 7.198 min Scan# 968
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:162 Resp: 743796

Ion	Ratio	Lower	Upper
162	100		
164	32.9	26.4	39.6
127	39.0	30.2	45.2

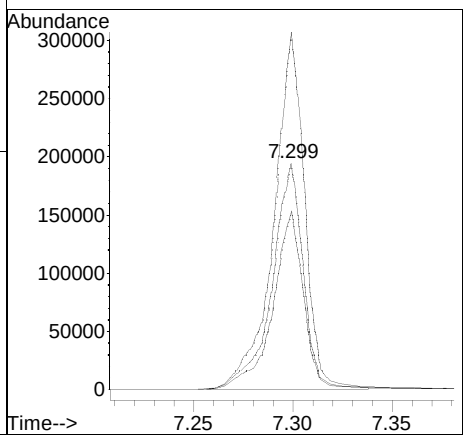


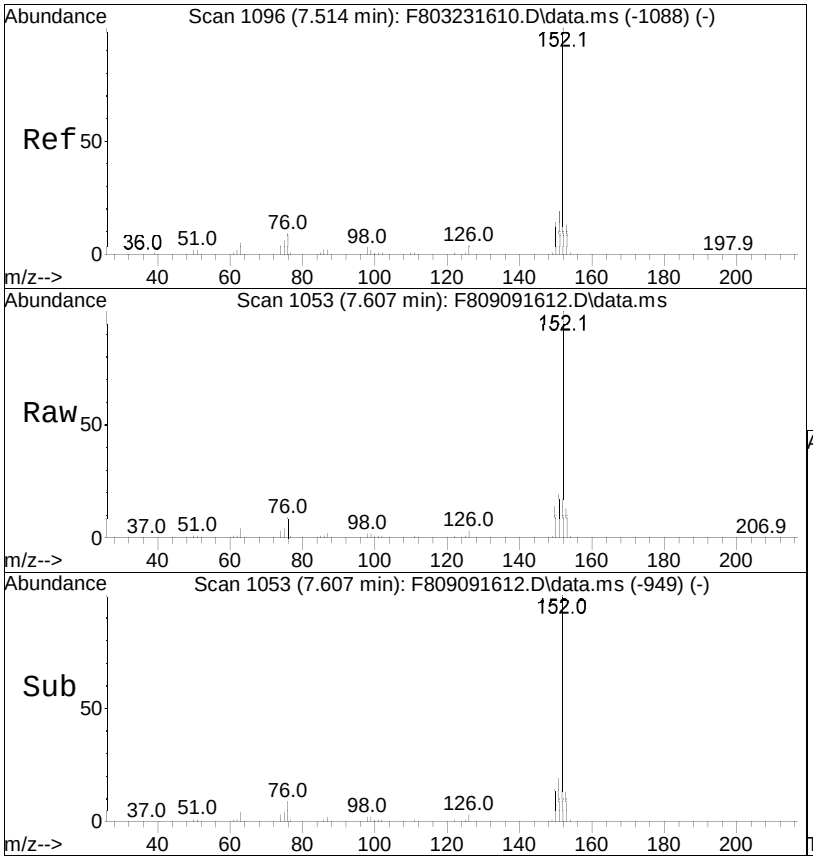


#46
2-Nitroaniline
Concen: 9.04 ug/mL
RT: 7.299 min Scan# 989
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion: 65 Resp: 210568

Ion	Ratio	Lower	Upper
65	100		
92	77.5	61.0	91.4
138	155.2	122.0	183.0

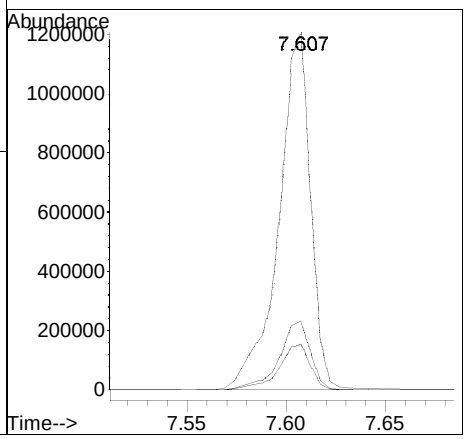


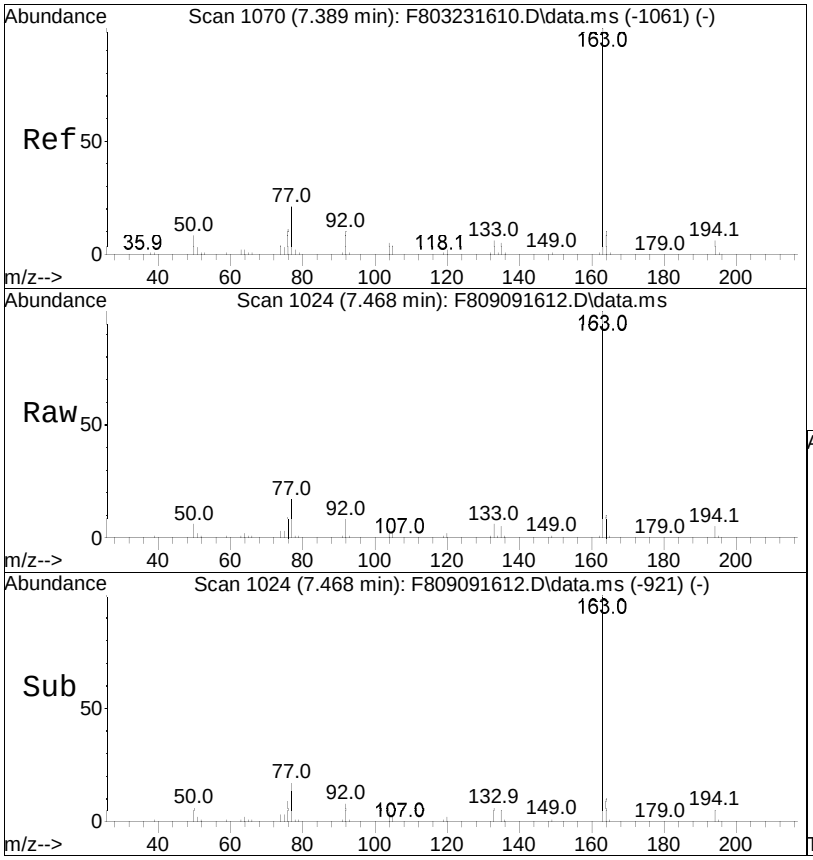


#47
Acenaphthylene
Concen: 7.97 ug/mL
RT: 7.607 min Scan# 1053
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:152 Resp: 1327616

Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.8	23.8
153	12.9	10.6	16.0

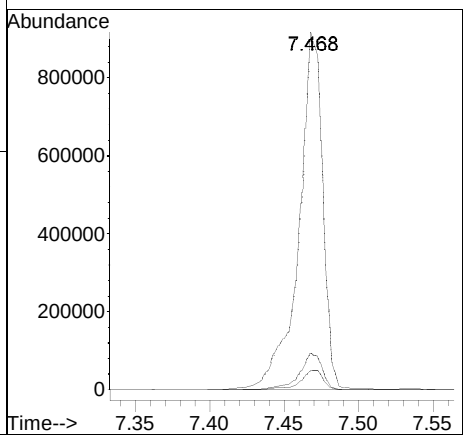


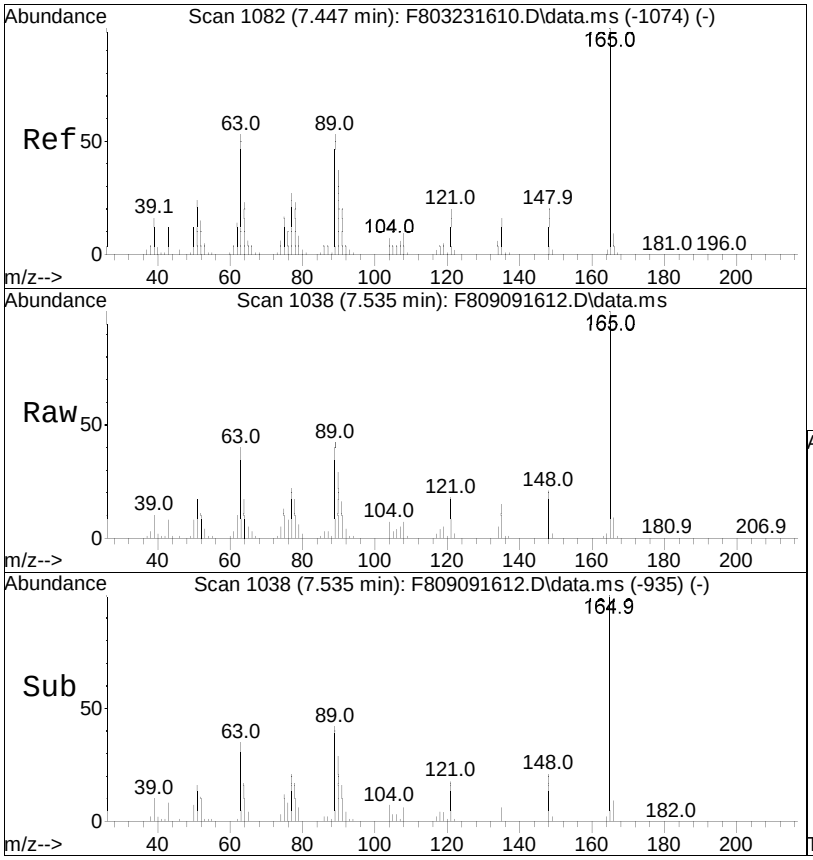


#48
Dimethylphthalate
Concen: 9.35 ug/mL
RT: 7.468 min Scan# 1024
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:163 Resp: 1014163

Ion	Ratio	Lower	Upper
163	100		
194	5.5	4.4	6.6
164	10.2	8.3	12.5

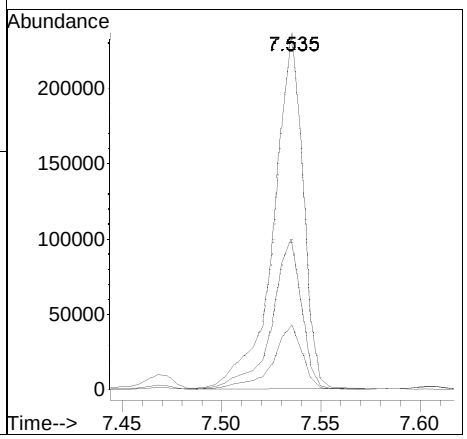


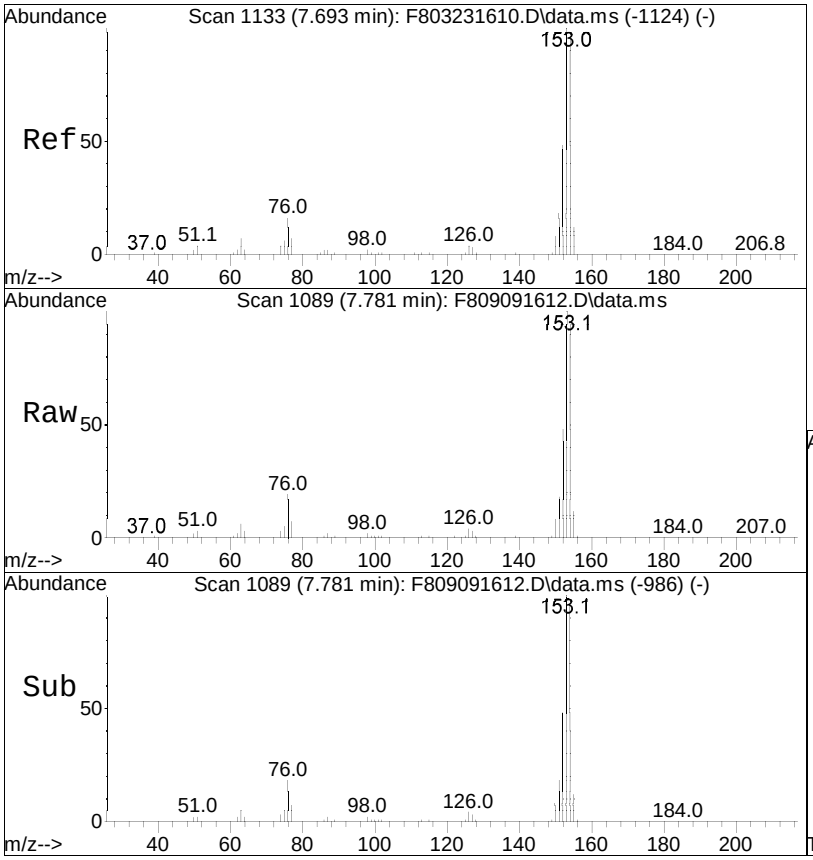


#49
2,6-Dinitrotoluene
Concen: 9.70 ug/mL
RT: 7.535 min Scan# 1038
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:165 Resp: 244373

Ion	Ratio	Lower	Upper
165	100		
89	42.8	40.5	60.7
121	18.6	16.6	25.0

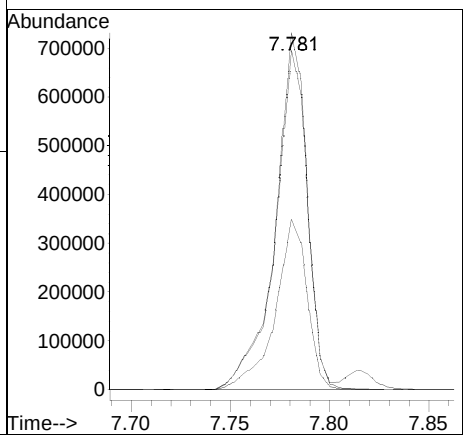


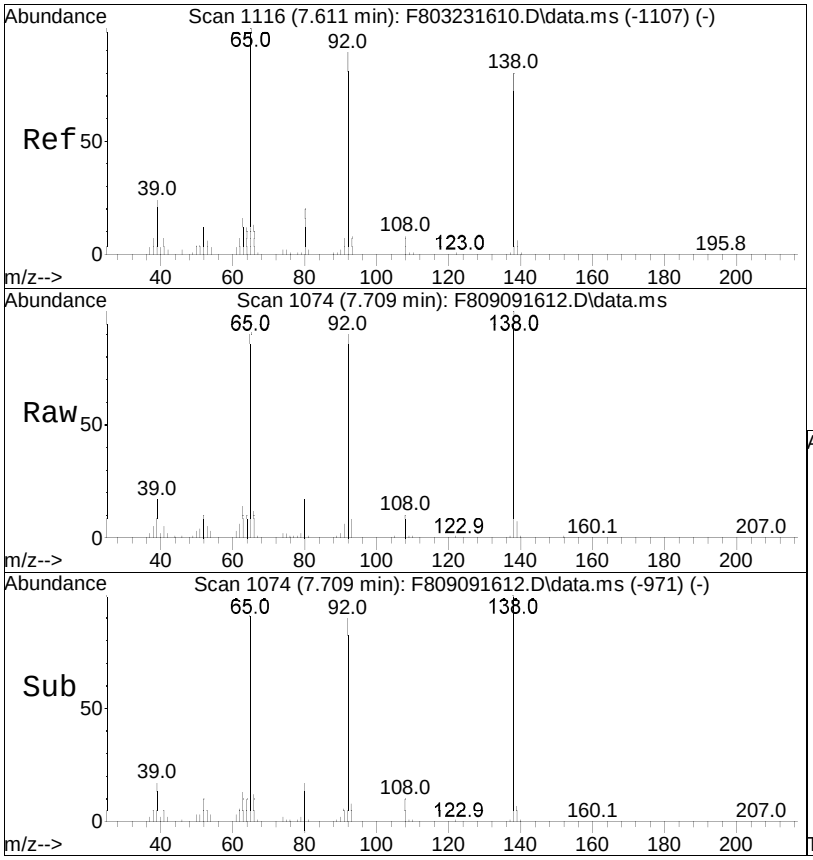


#50
Acenaphthene
Concen: 8.04 ug/mL
RT: 7.781 min Scan# 1089
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:153 Resp: 815082

Ion	Ratio	Lower	Upper
153	100		
154	96.2	75.4	113.0
152	47.5	39.3	58.9

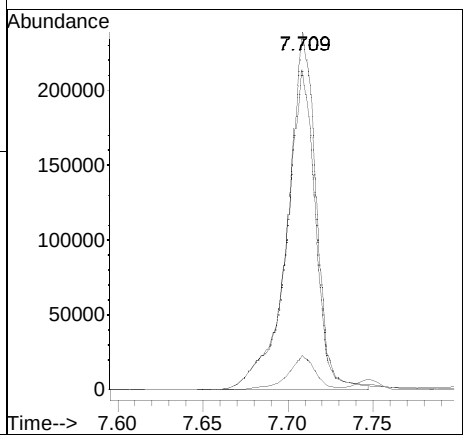


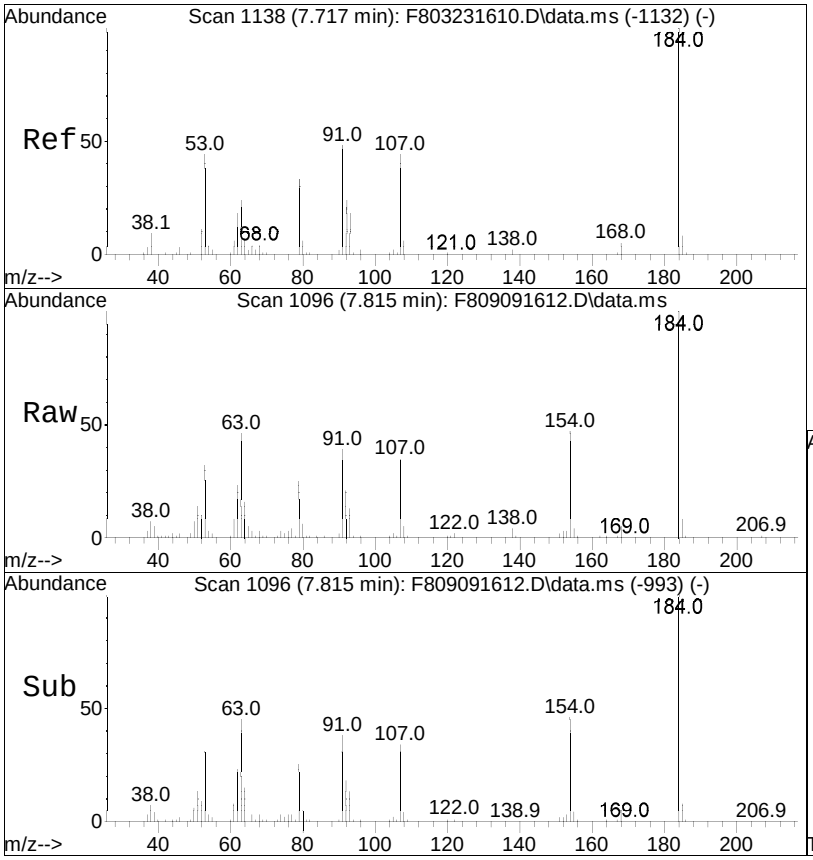


#51
3-Nitroaniline
Concen: 9.75 ug/mL
RT: 7.709 min Scan# 1074
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:138 Resp: 280840

Ion	Ratio	Lower	Upper
138	100		
108	9.7	8.9	13.3
92	90.9	72.2	108.4

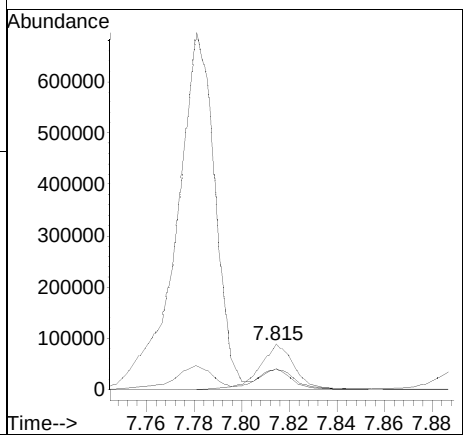


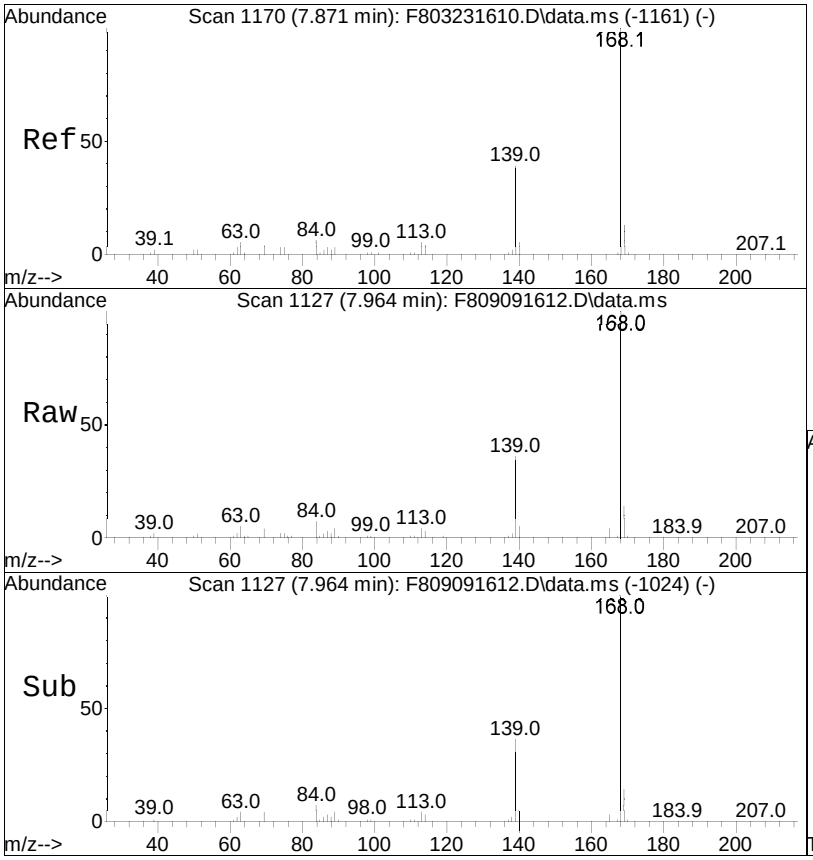


#52
2,4-Dinitrophenol
Concen: 7.93 ug/mL
RT: 7.815 min Scan# 1096
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:184 Resp: 88642

Ion	Ratio	Lower	Upper
184	100		
63	45.2	43.8	65.6
154	29.5	37.1	55.7#

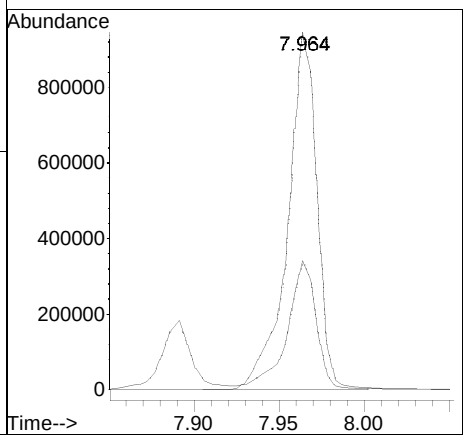


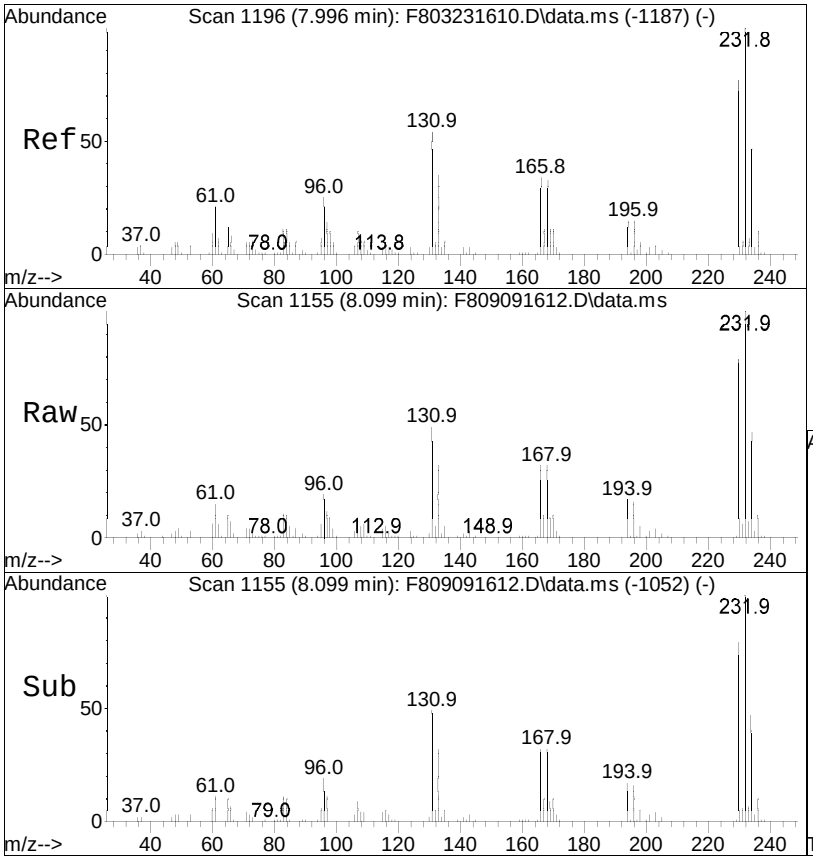


#53
Dibenzofuran
Concen: 8.47 ug/mL
RT: 7.964 min Scan# 1127
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:168 Resp: 1121254

Ion	Ratio	Lower	Upper
168	100		
139	35.6	28.8	43.2

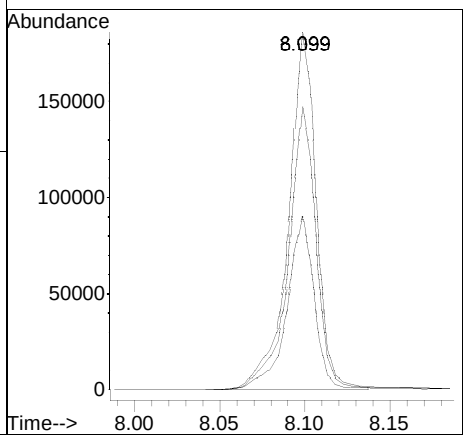


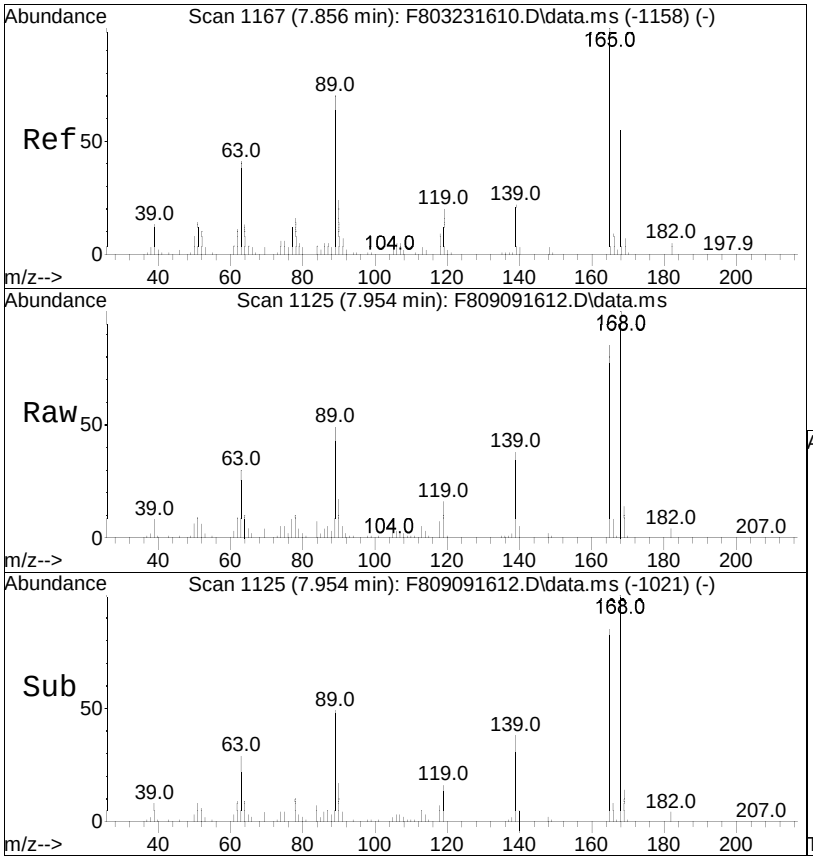


#54
2,3,4,6-Tetrachlorophenol
Concen: 10.54 ug/mL
RT: 8.099 min Scan# 1155
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:232 Resp: 211730

Ion	Ratio	Lower	Upper
232	100		
131	48.0	43.1	64.7
230	78.5	63.0	94.6

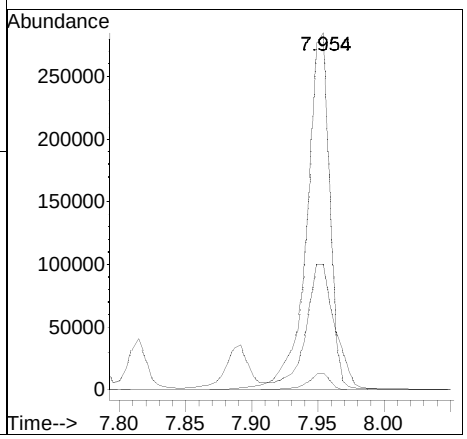


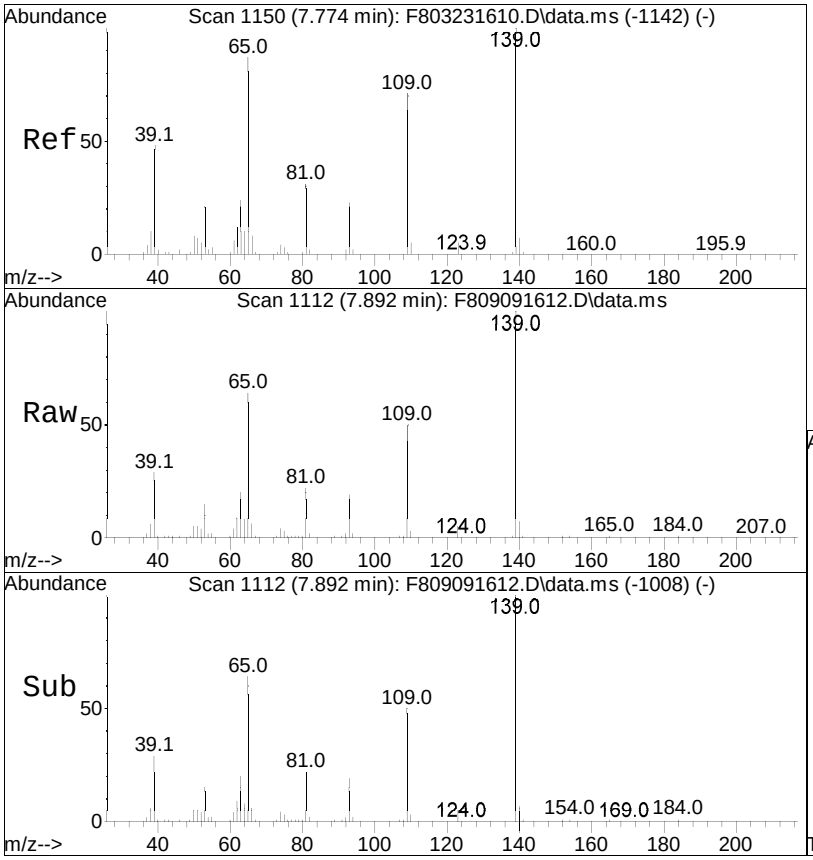


#55
2,4-Dinitrotoluene
Concen: 10.58 ug/mL
RT: 7.954 min Scan# 1125
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:165 Resp: 341940

Ion	Ratio	Lower	Upper
165	100		
63	43.6	30.9	46.3
182	4.6	3.5	5.3

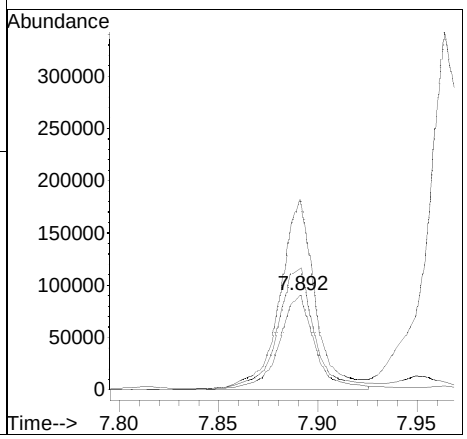


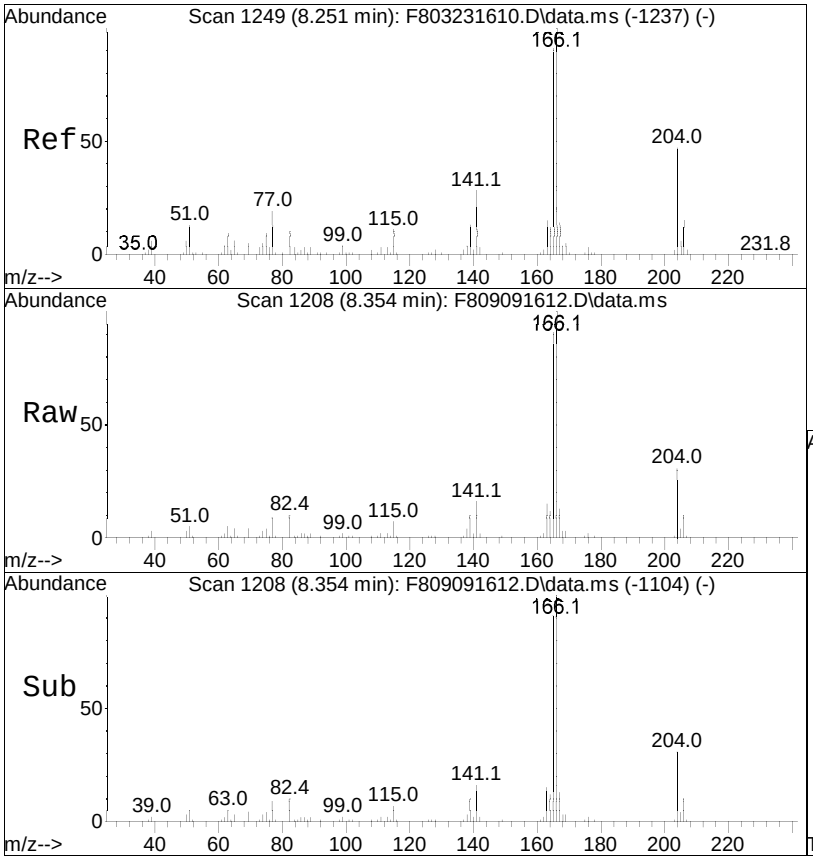


#56
4-Nitrophenol
Concen: 10.36 ug/mL
RT: 7.892 min Scan# 1112
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:109 Resp: 113029

Ion	Ratio	Lower	Upper
109	100		
139	199.4	149.7	224.5
65	130.8	107.3	160.9

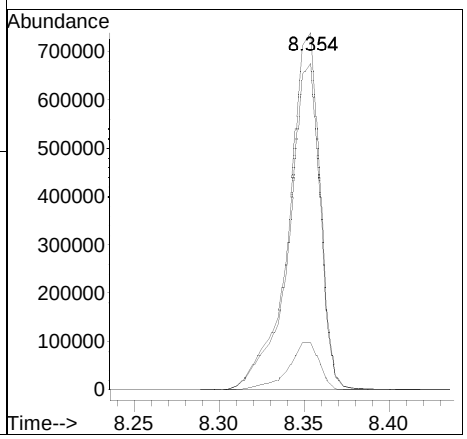


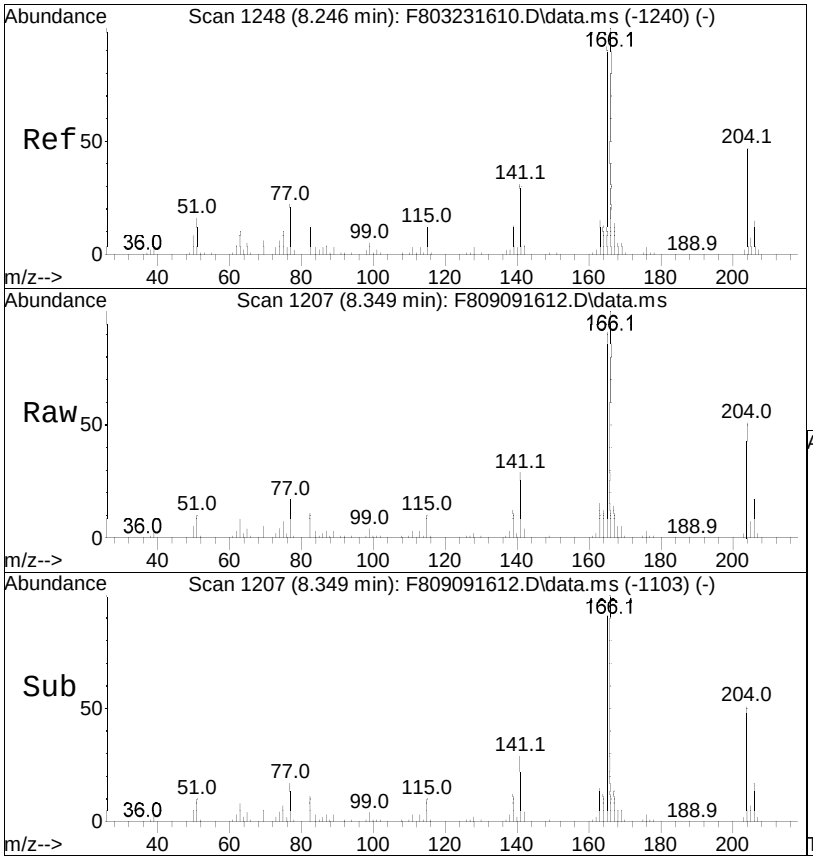


#57
Fluorene
Concen: 8.81 ug/mL
RT: 8.354 min Scan# 1208
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:166 Resp: 960948

Ion	Ratio	Lower	Upper
166	100		
165	91.0	72.9	109.3
167	13.4	10.9	16.3

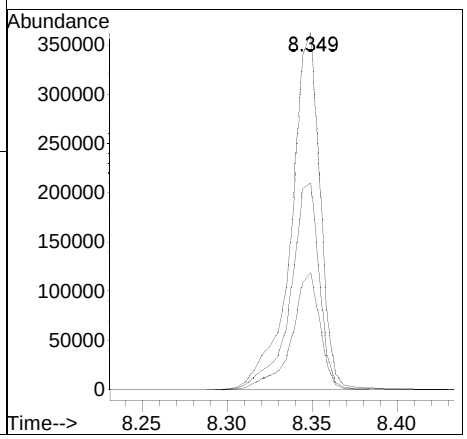


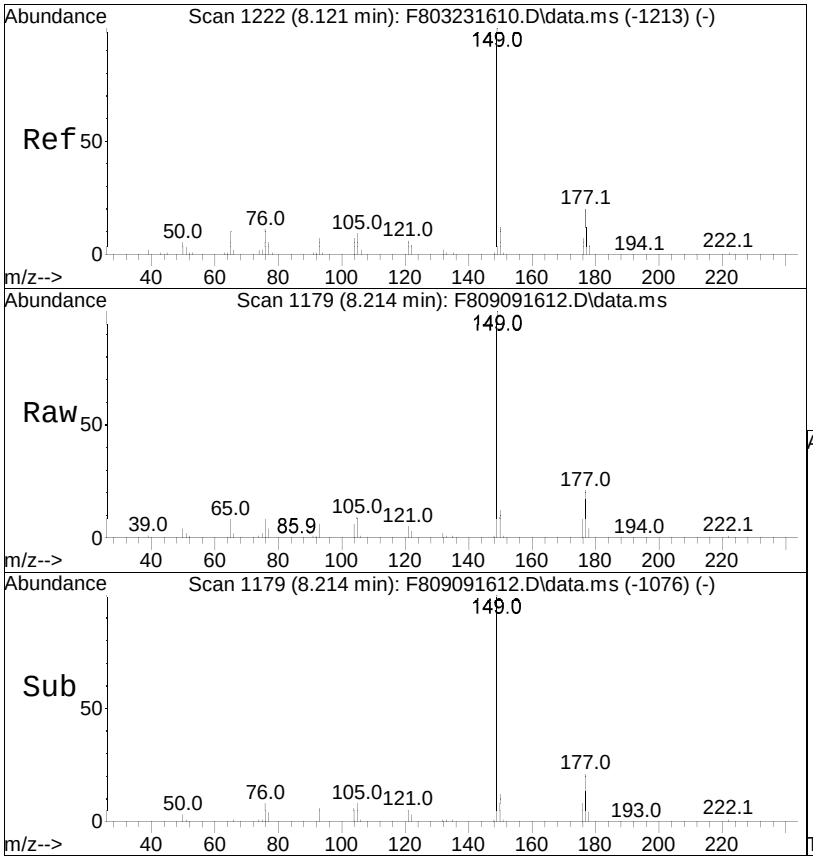


#58
4-Chlorophenyl-phenylether
Concen: 8.89 ug/mL
RT: 8.349 min Scan# 1207
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:204 Resp: 433851

Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.9	38.9
141	58.0	46.2	69.4

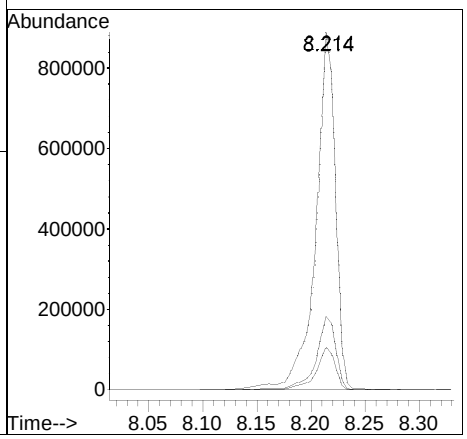


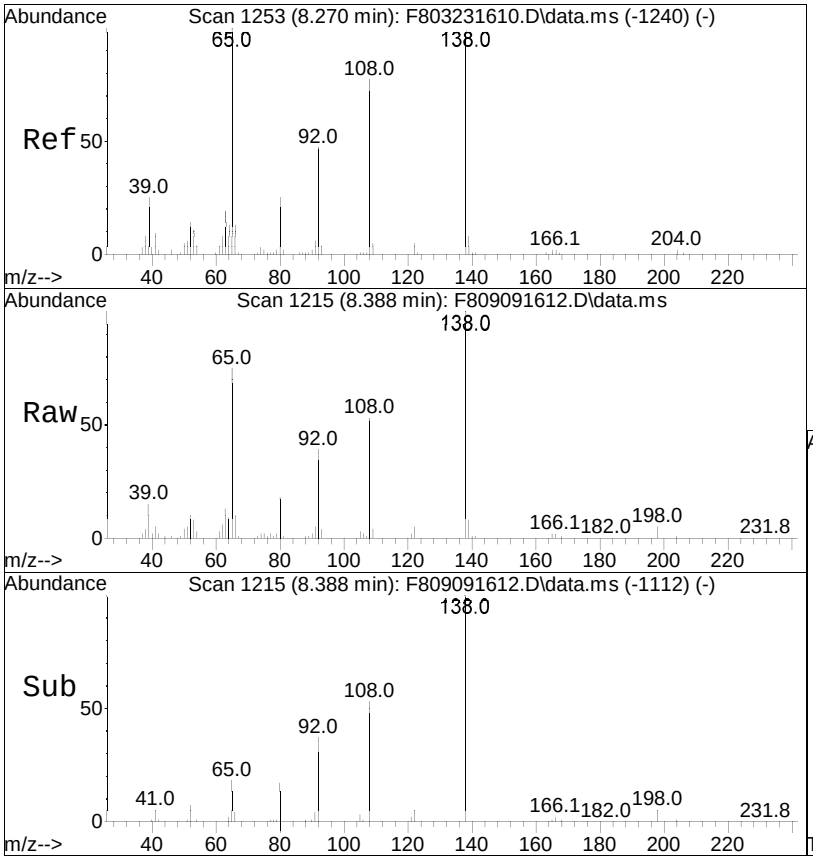


#59
Diethylphthalate
Concen: 9.98 ug/mL
RT: 8.214 min Scan# 1179
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:149 Resp: 1105514

Ion	Ratio	Lower	Upper
149	100		
177	21.0	16.6	24.8
150	12.0	9.8	14.6

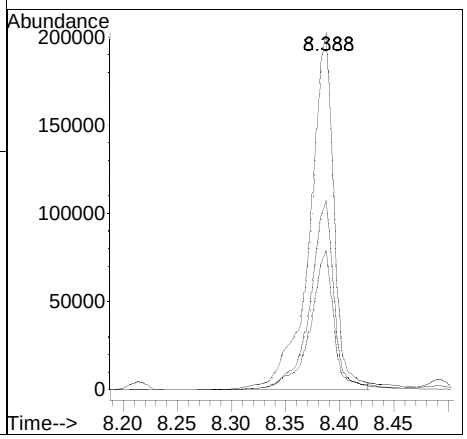


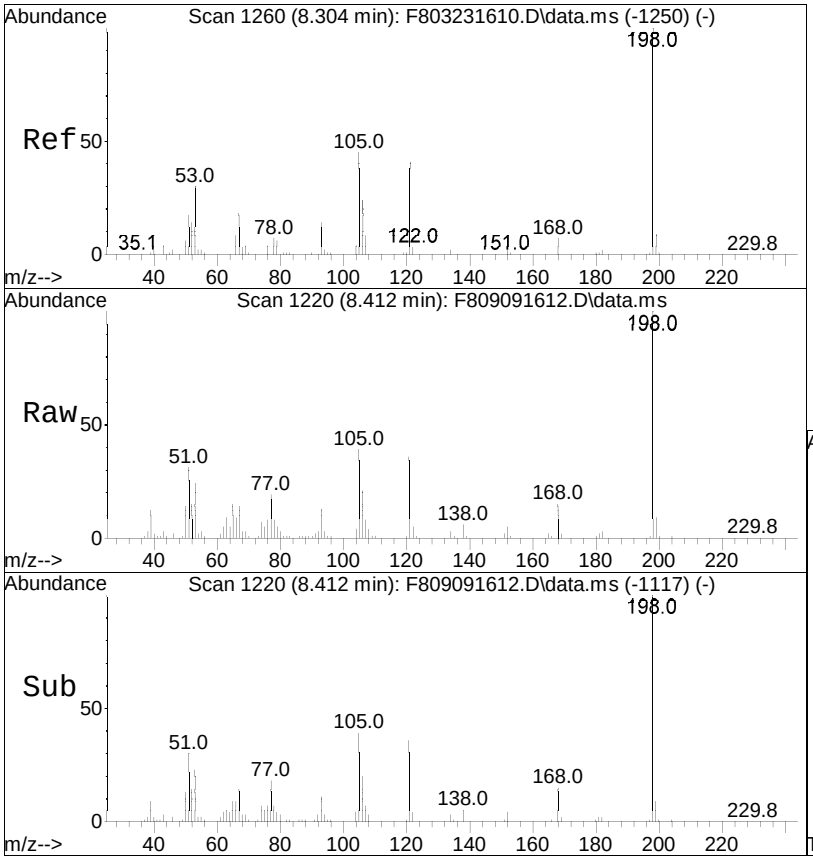


#60
4-Nitroaniline
Concen: 10.59 ug/mL
RT: 8.388 min Scan# 1215
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:138 Resp: 315211

Ion	Ratio	Lower	Upper
138	100		
92	39.7	32.7	49.1
108	52.3	45.8	68.6

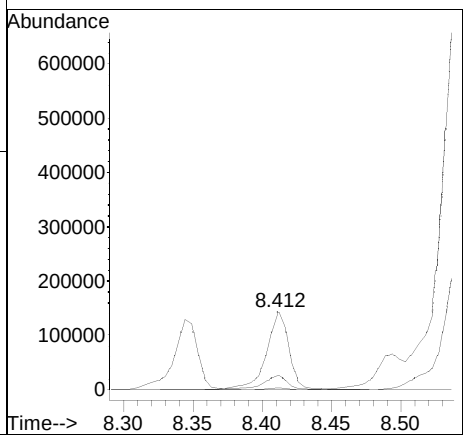


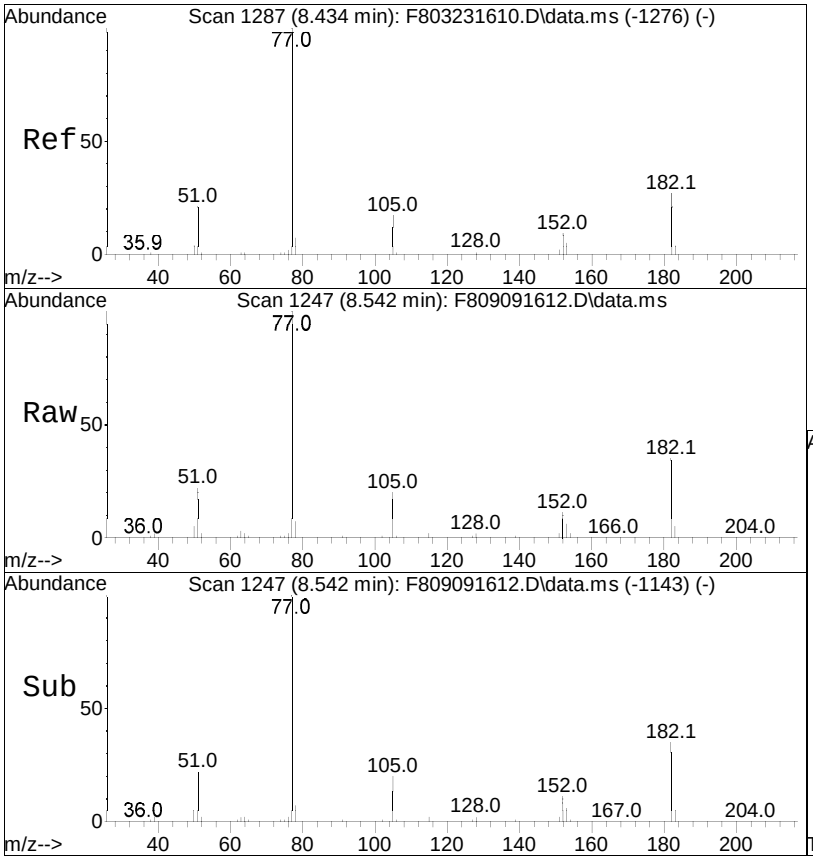


#62
4,6-Dinitro-2-methylphenol
Concen: 9.90 ug/mL M4
RT: 8.412 min Scan# 1220
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:198 Resp: 164012

Ion	Ratio	Lower	Upper
198	100		
182	2.8	2.2	3.2
77	17.0	16.8	25.2

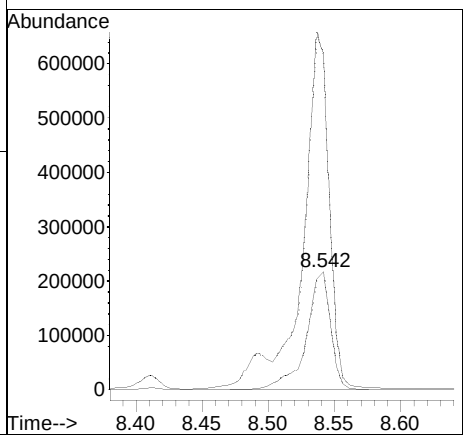


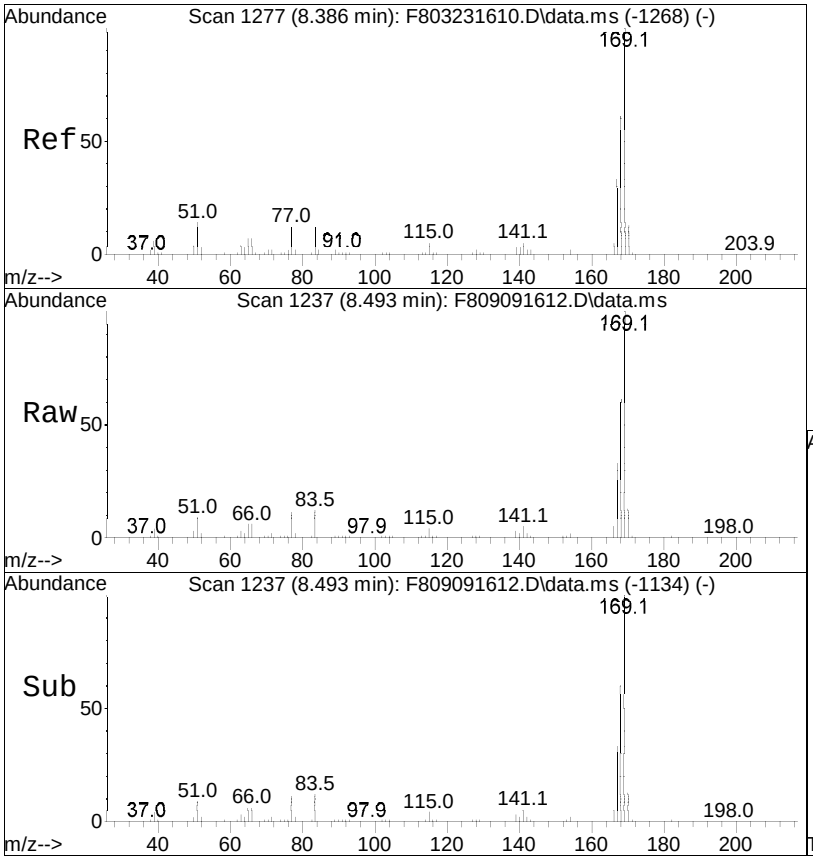


#63
Azobenzene
Concen: 9.48 ug/mL
RT: 8.542 min Scan# 1247
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:182 Resp: 277769

Ion	Ratio	Lower	Upper
182	100		
77	291.2	54.9	631.7

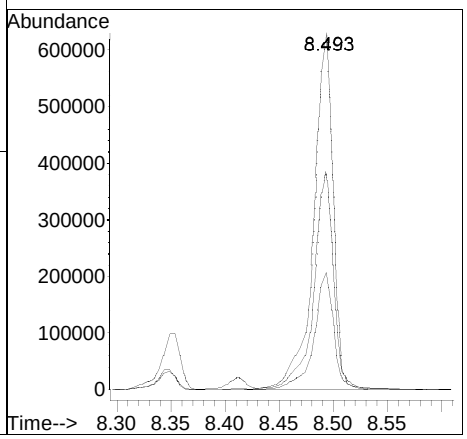


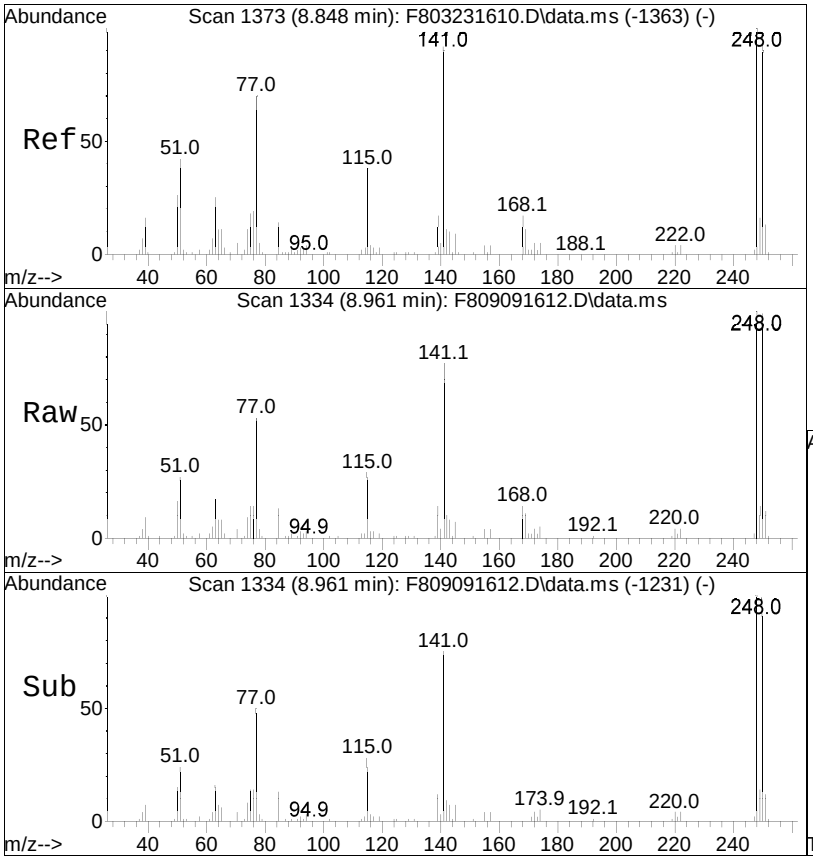


#64
n-Nitrosodiphenylamine
Concen: 10.25 ug/mL
RT: 8.493 min Scan# 1237
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:169 Resp: 786348

Ion	Ratio	Lower	Upper
169	100		
168	60.7	49.4	74.2
167	33.4	26.7	40.1

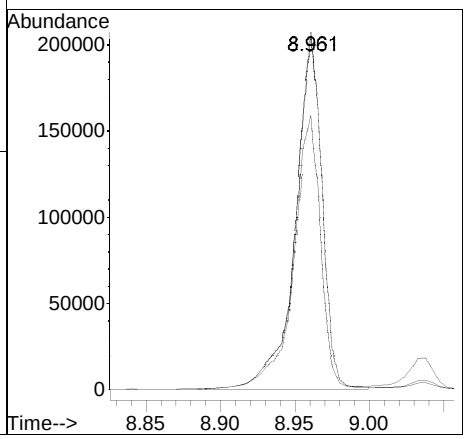


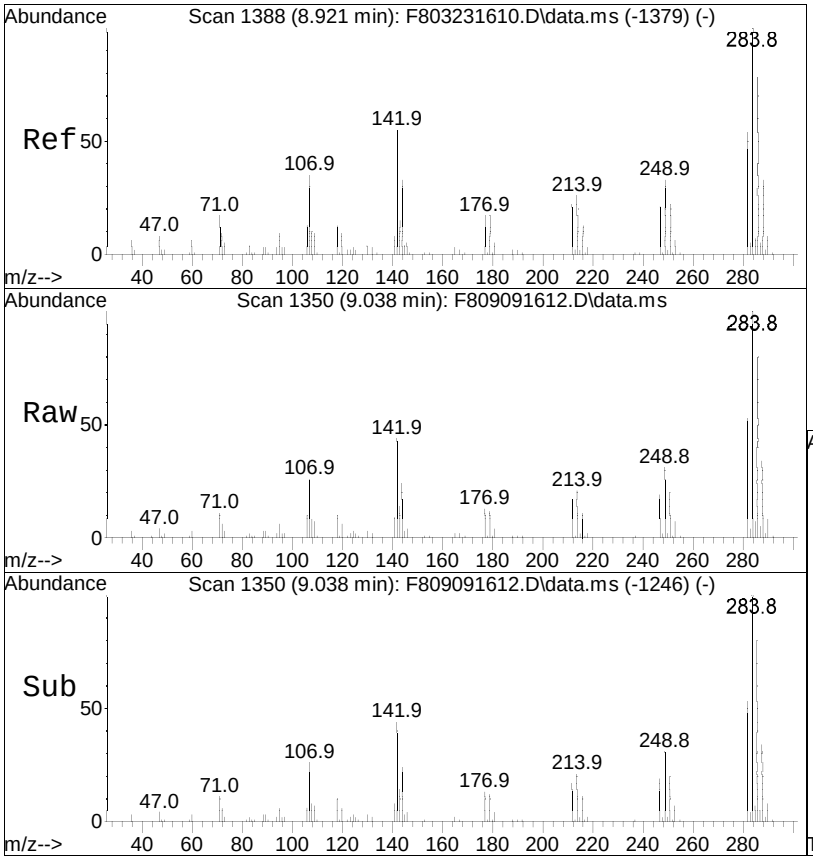


#66
4-Bromophenyl-phenylether
Concen: 9.55 ug/mL
RT: 8.961 min Scan# 1334
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:248 Resp: 255922

Ion	Ratio	Lower	Upper
248	100		
250	98.5	77.3	115.9
141	78.3	61.7	92.5

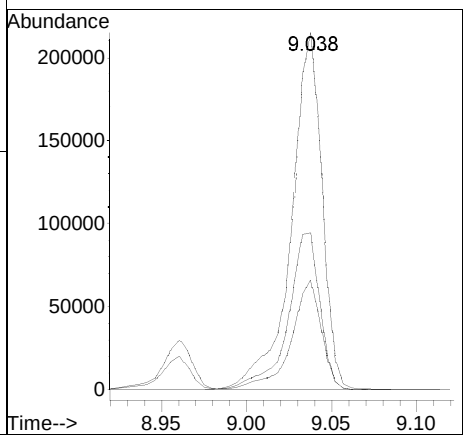


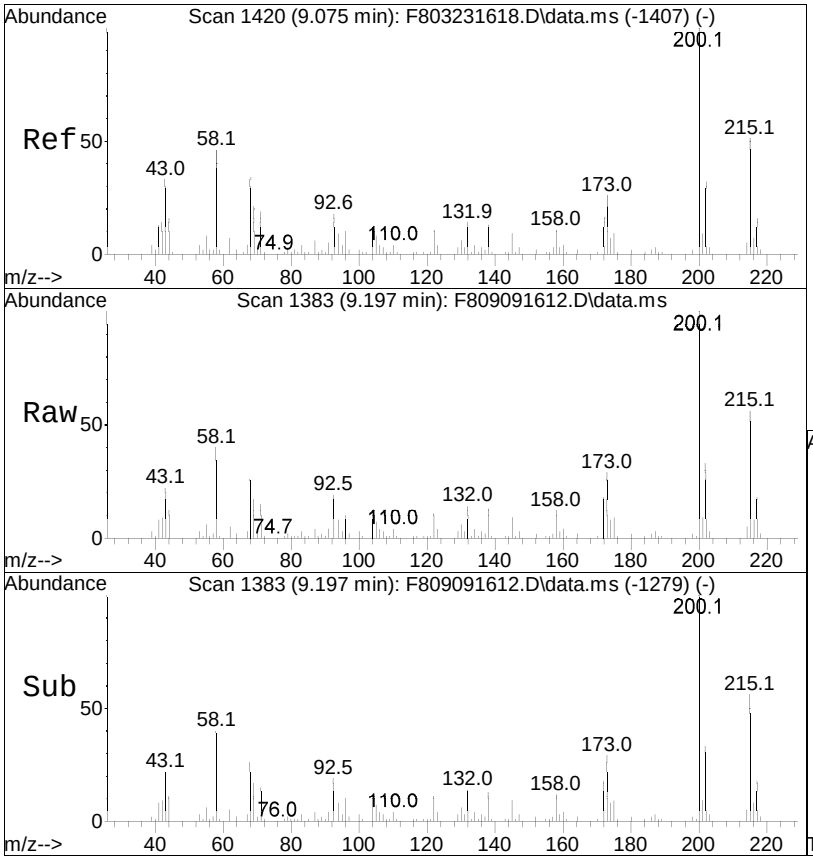


#67
Hexachlorobenzene
Concen: 9.66 ug/mL
RT: 9.038 min Scan# 1350
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:284 Resp: 270469

Ion	Ratio	Lower	Upper
284	100		
142	45.1	37.8	56.6
249	30.3	24.8	37.2

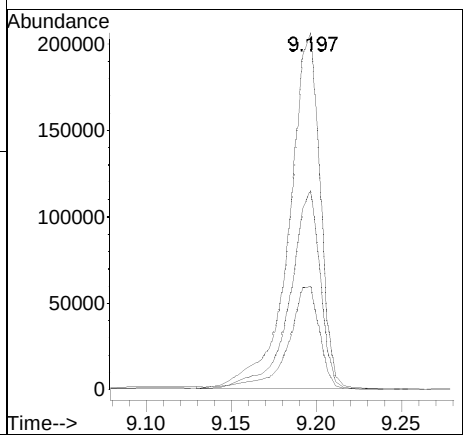


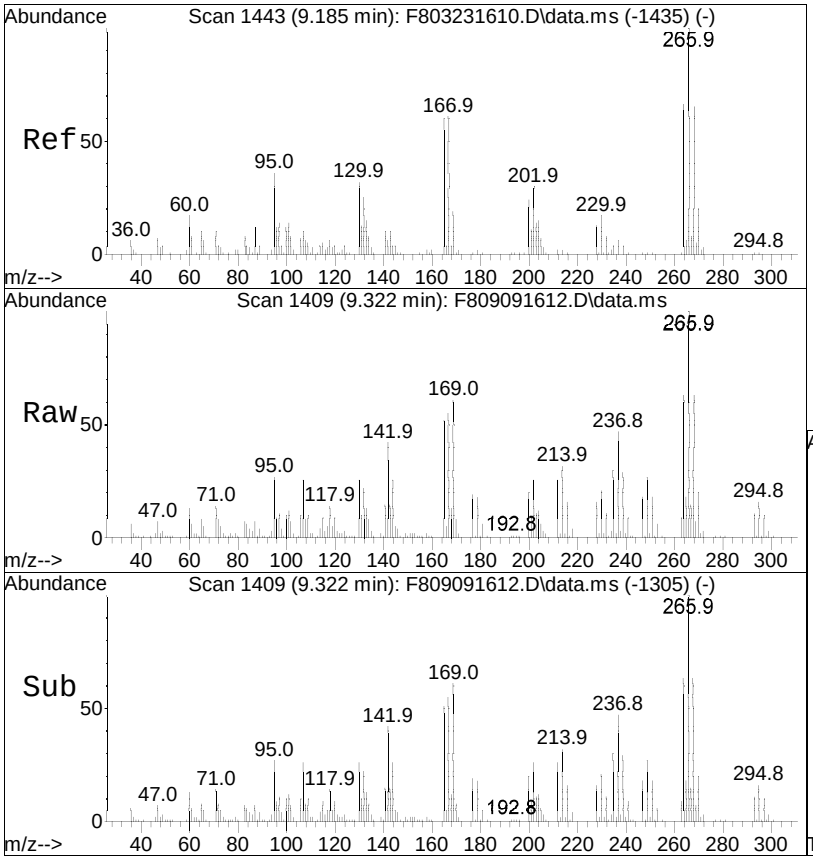


#68
Atrazine
Concen: 8.82 ug/ml
RT: 9.197 min Scan# 1383
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:200 Resp: 260899

Ion	Ratio	Lower	Upper
200	100		
173	30.4	22.4	33.6
215	54.9	43.8	65.6

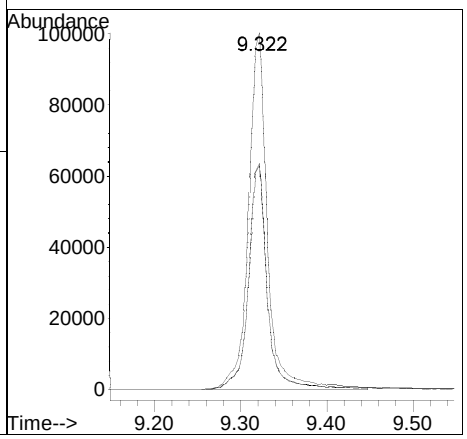


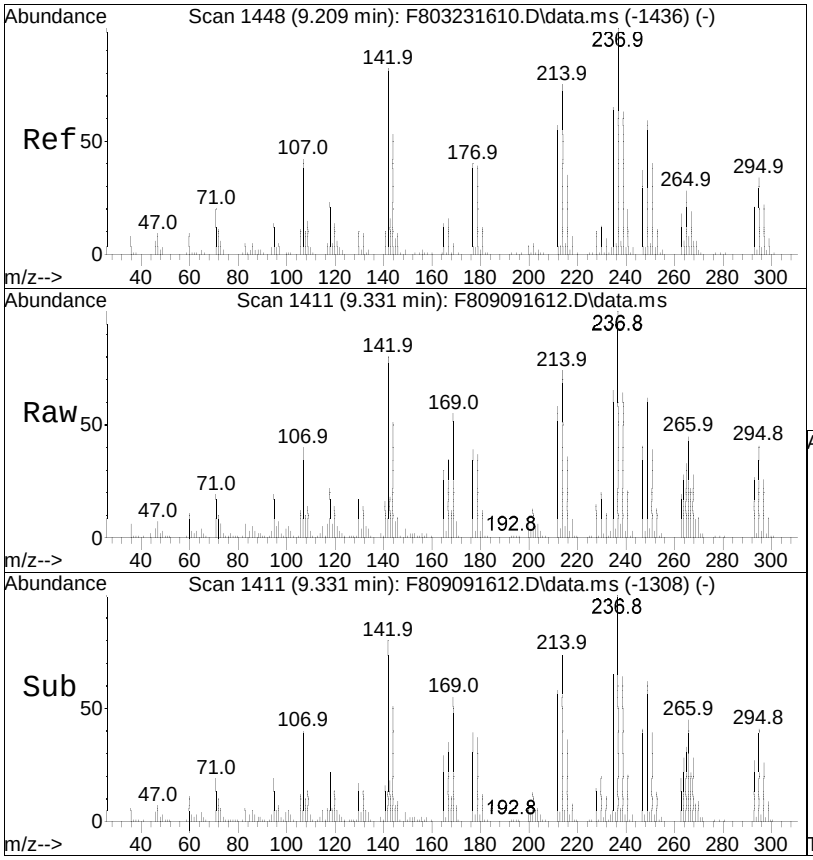


#69
Pentachlorophenol
Concen: 9.98 ug/mL M4
RT: 9.322 min Scan# 1409
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:266 Resp: 153900

Ion	Ratio	Lower	Upper
266	100		
264	59.2	49.7	74.5
268	59.4	48.1	72.1

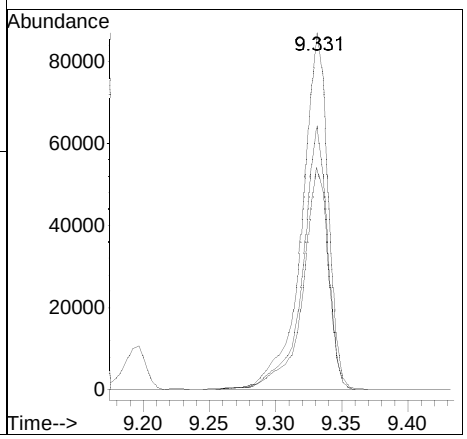


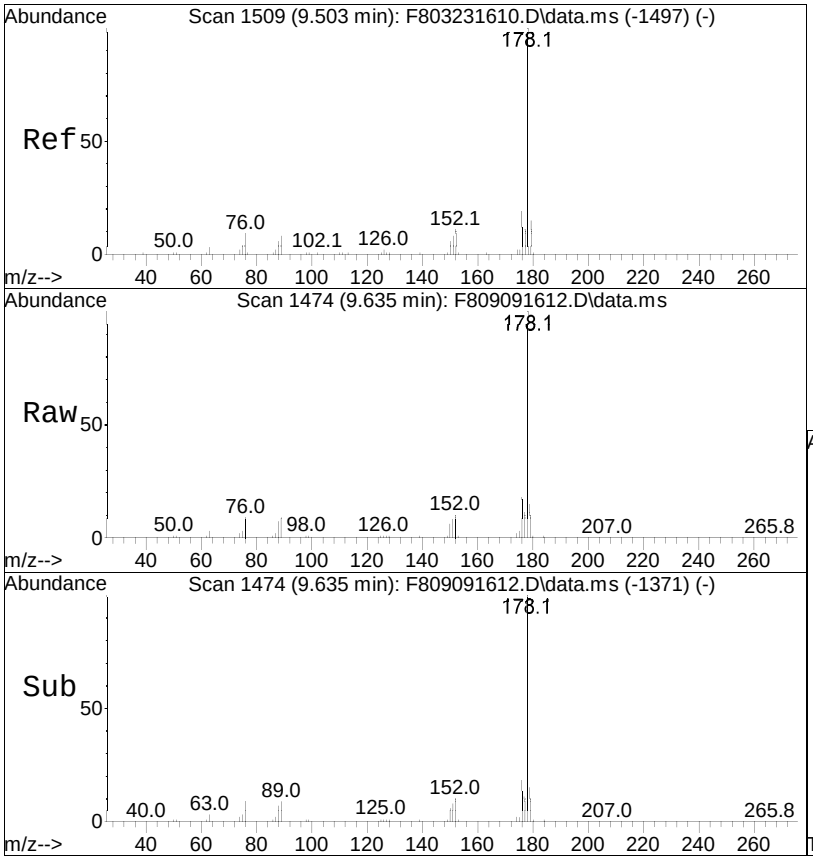


#70
Pentachloronitrobenzene
Concen: 10.85 ug/ml
RT: 9.331 min Scan# 1411
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:237 Resp: 121065

Ion	Ratio	Lower	Upper
237	100		
214	70.3	63.4	95.2
249	60.8	54.9	82.3

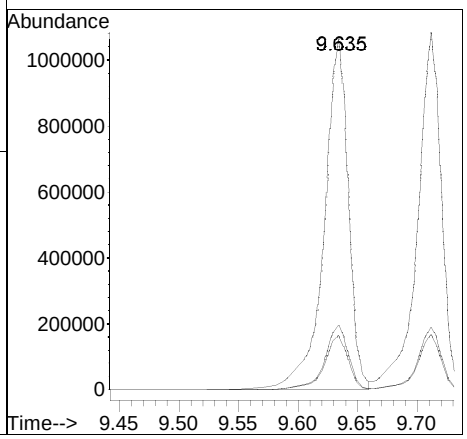


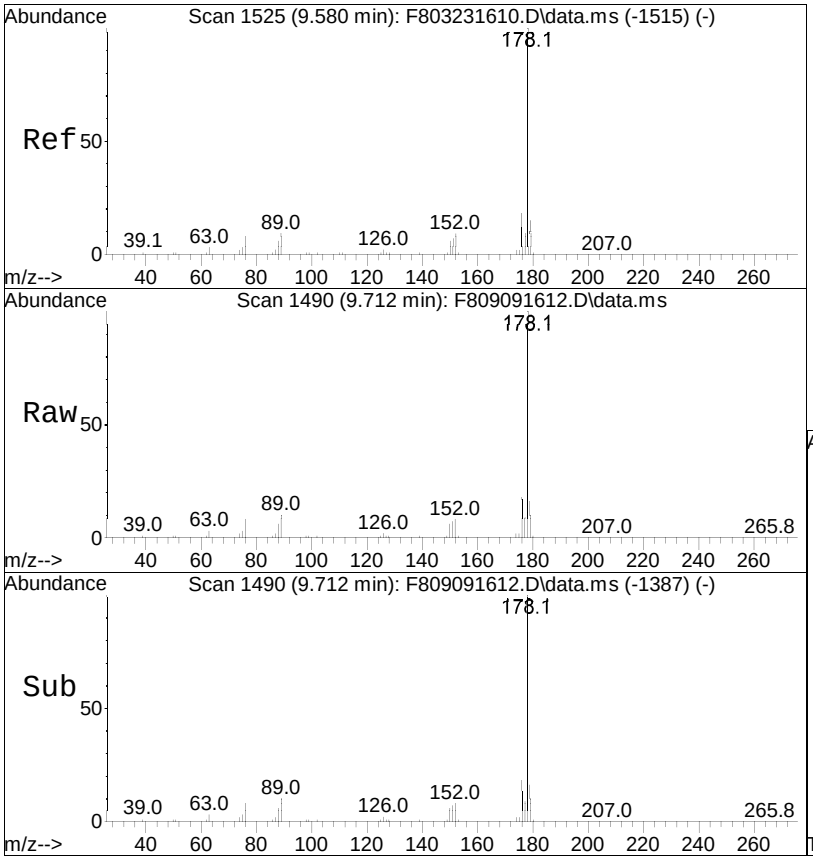


#71
Phenanthrene
Concen: 9.65 ug/mL
RT: 9.635 min Scan# 1474
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:178 Resp: 1514607

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.4	18.6
176	18.2	15.0	22.6

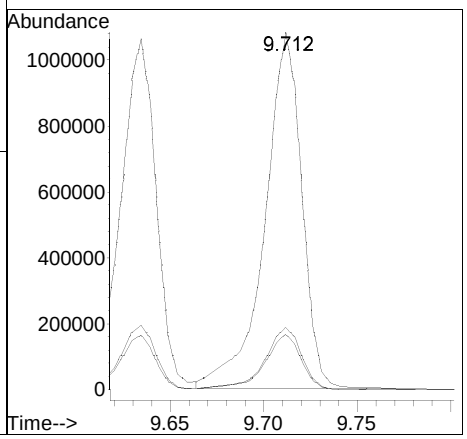


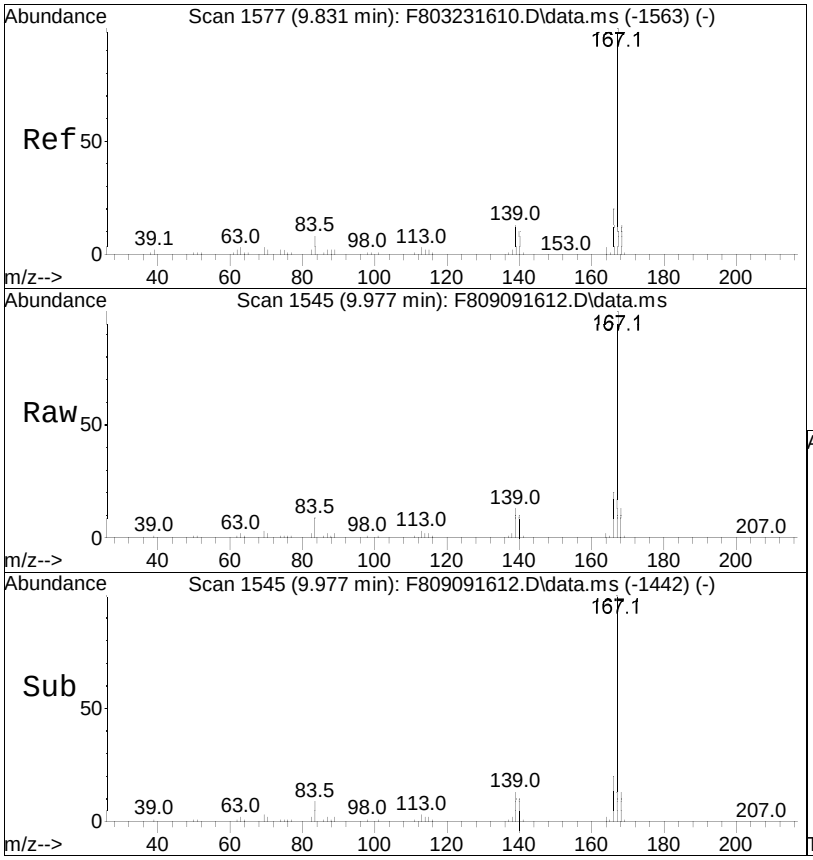


#72
Anthracene
Concen: 9.53 ug/mL M4
RT: 9.712 min Scan# 1490
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:178 Resp: 1478110

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.6	18.8
176	17.5	14.6	22.0

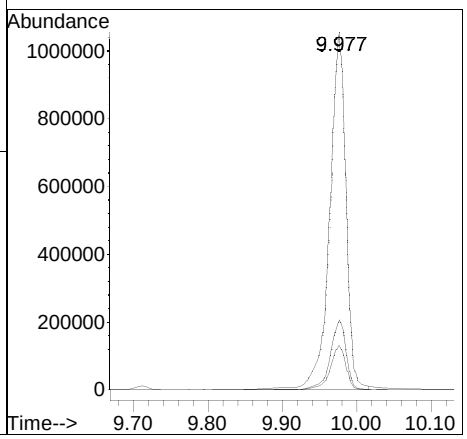


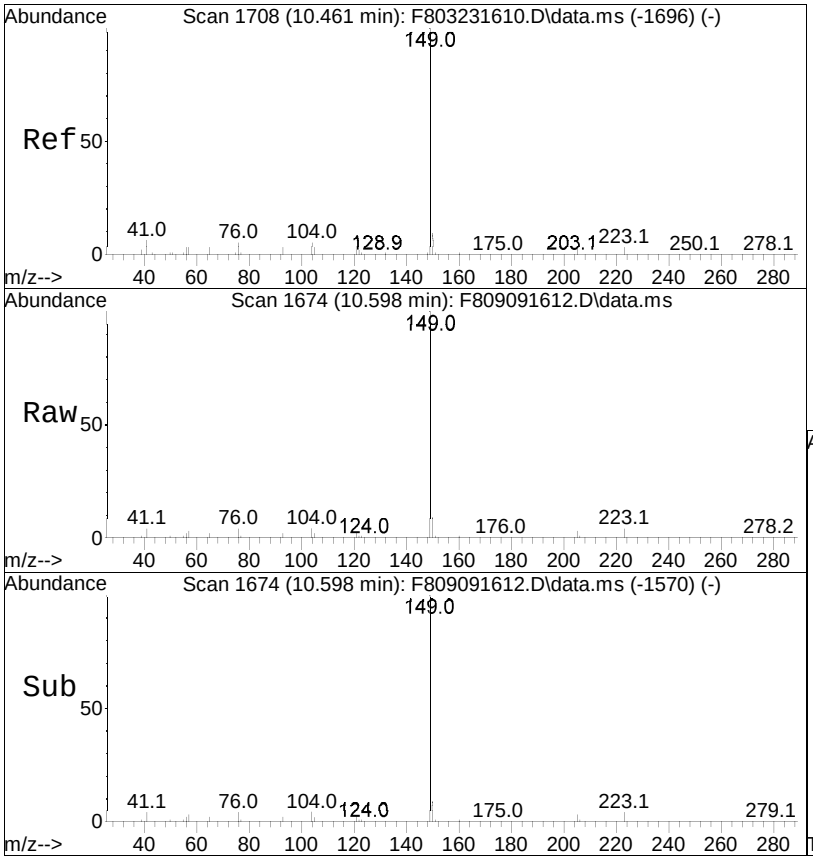


#73
Carbazole
Concen: 10.61 ug/mL
RT: 9.977 min Scan# 1545
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:167 Resp: 1579815

Ion	Ratio	Lower	Upper
167	100		
139	12.3	10.3	15.5
166	19.6	15.9	23.9

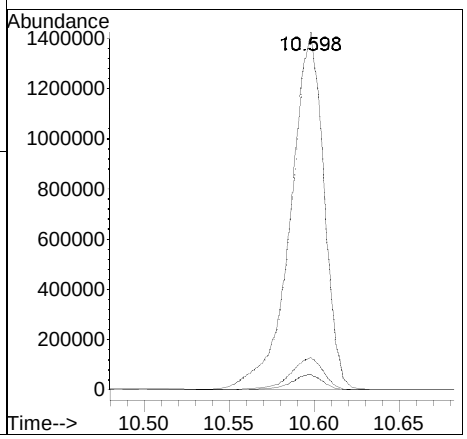


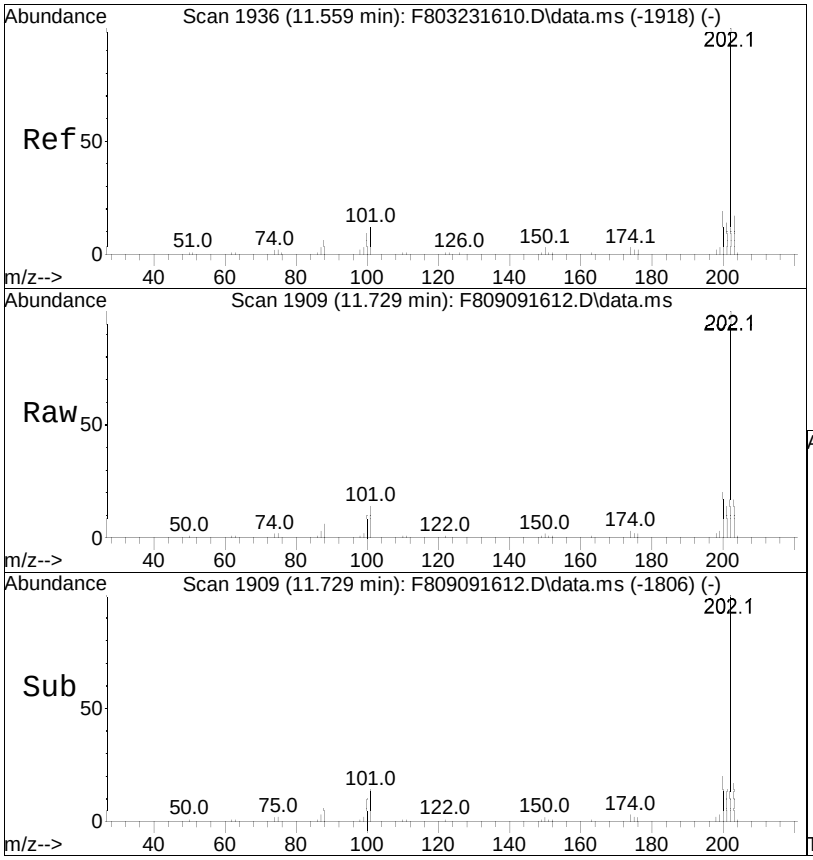


#74
Di-n-butylphthalate
Concen: 10.64 ug/mL
RT: 10.598 min Scan# 1674
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:149 Resp: 1916942

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.2
104	4.2	3.5	5.3

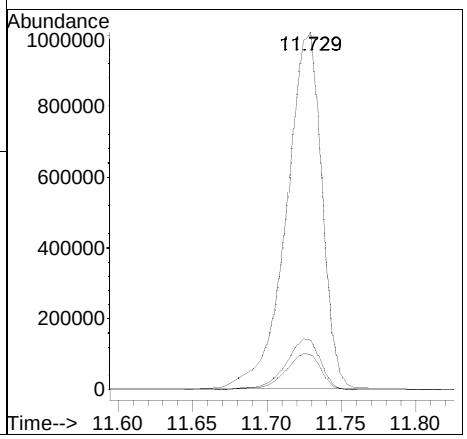


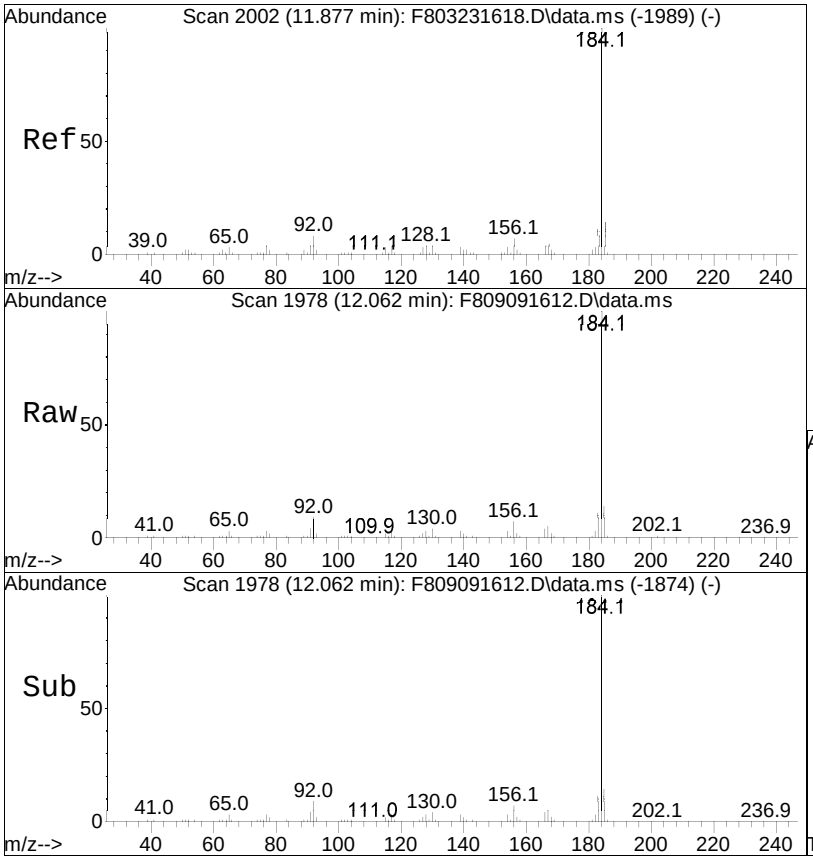


#75
Fluoranthene
Concen: 10.18 ug/mL
RT: 11.729 min Scan# 1909
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:202 Resp: 1652350

Ion	Ratio	Lower	Upper
202	100		
101	14.3	13.4	20.2
100	10.4	9.4	14.2

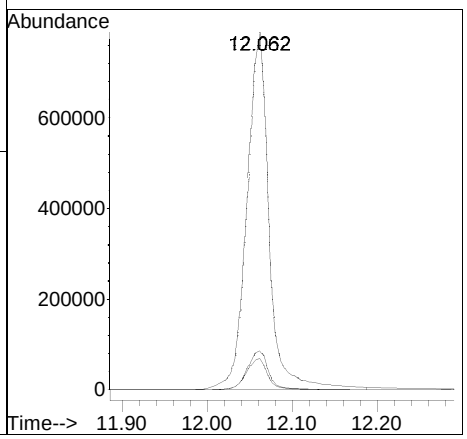


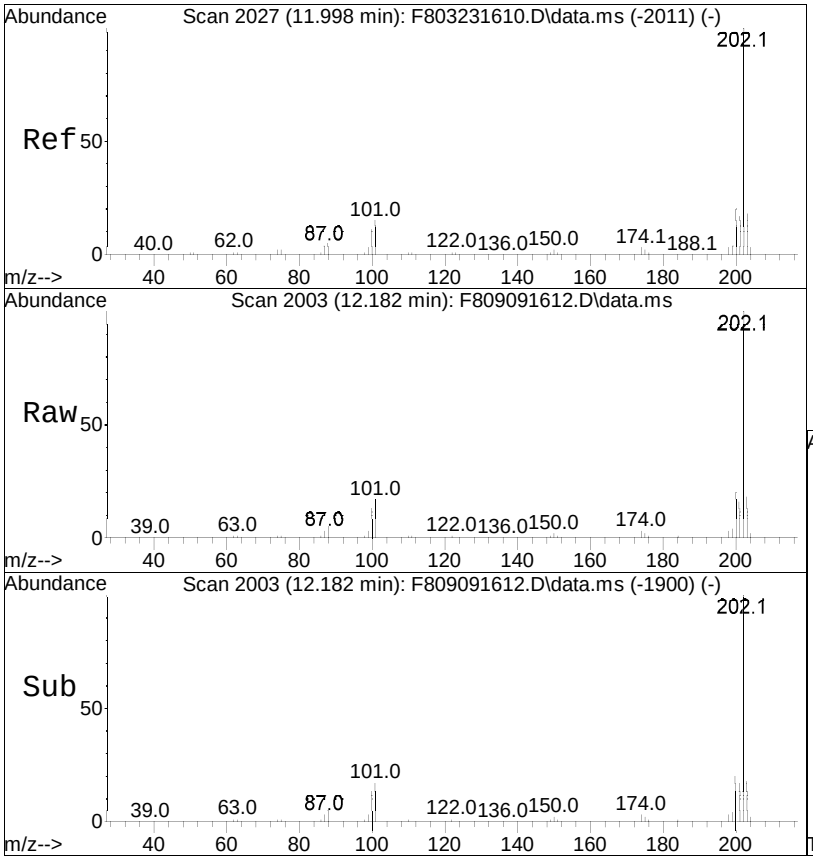


#77
Benzidine
Concen: 12.89 ug/mL M4
RT: 12.062 min Scan# 1978
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:184 Resp: 1411409

Ion	Ratio	Lower	Upper
184	100		
183	10.6	9.0	13.4
92	8.6	7.4	11.2

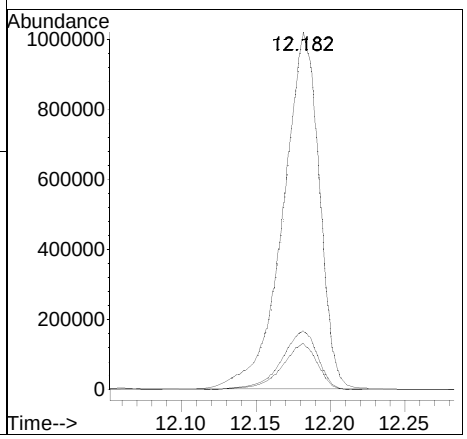


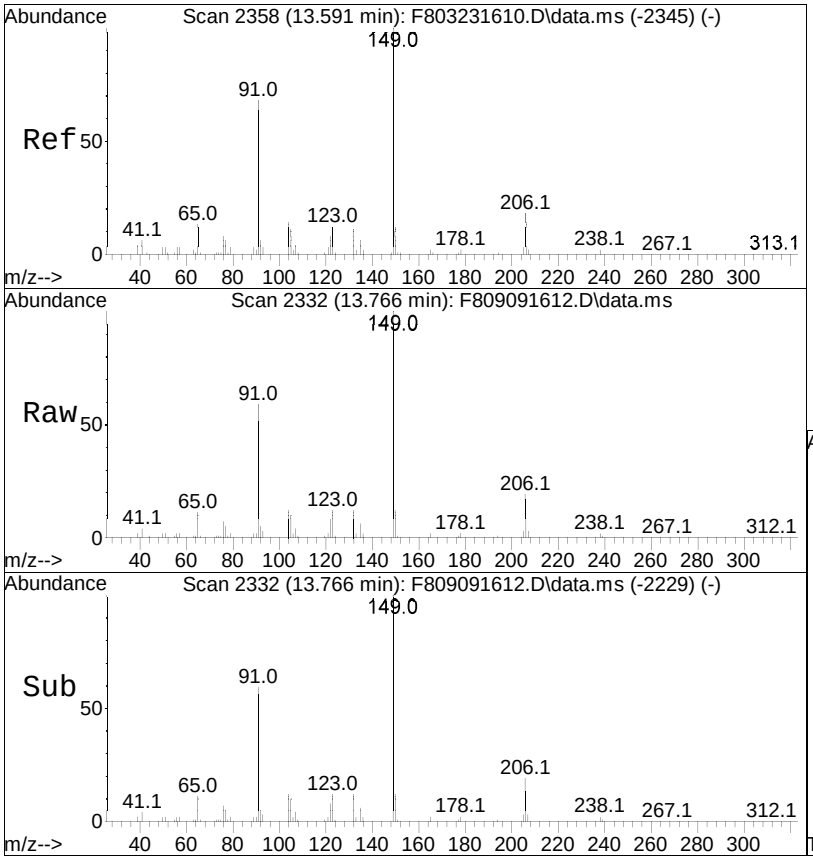


#78
Pyrene
Concen: 10.32 ug/mL
RT: 12.182 min Scan# 2003
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:202 Resp: 1707748

Ion	Ratio	Lower	Upper
202	100		
101	16.8	14.9	22.3
100	13.0	11.4	17.2

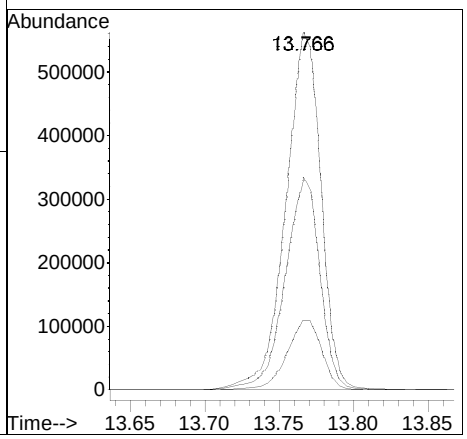


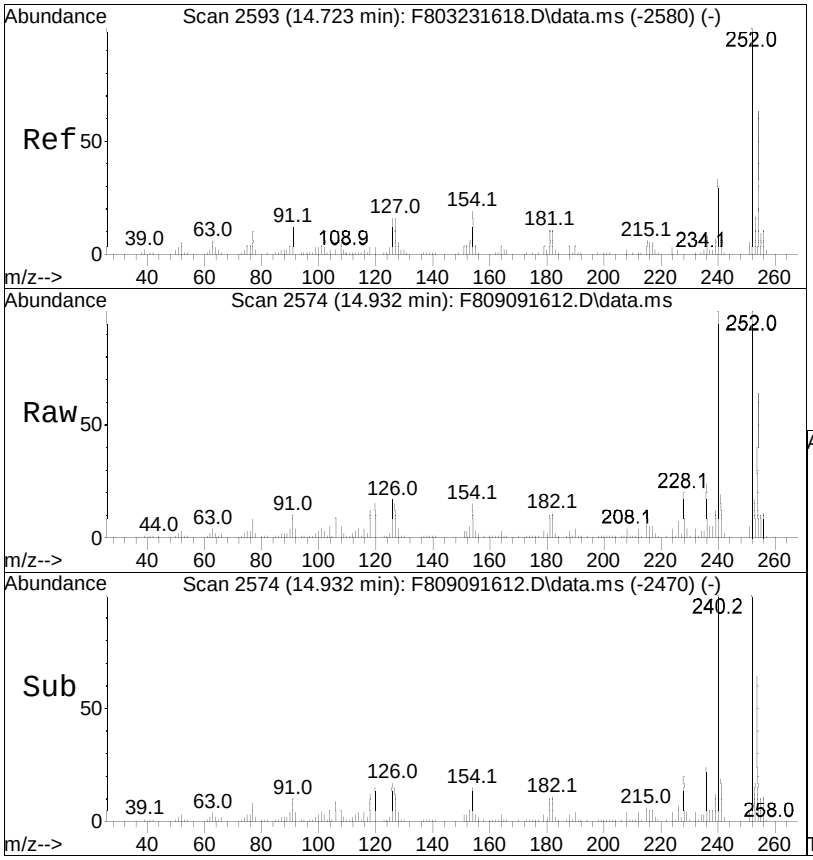


#80
Butylbenzylphthalate
Concen: 11.26 ug/mL
RT: 13.766 min Scan# 2332
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:149 Resp: 914519

Ion	Ratio	Lower	Upper
149	100		
91	59.0	50.8	76.2
206	19.6	15.0	22.4

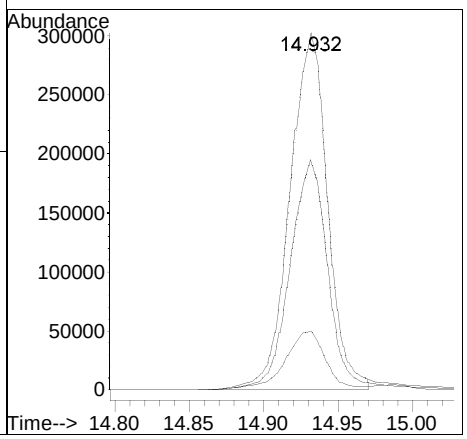


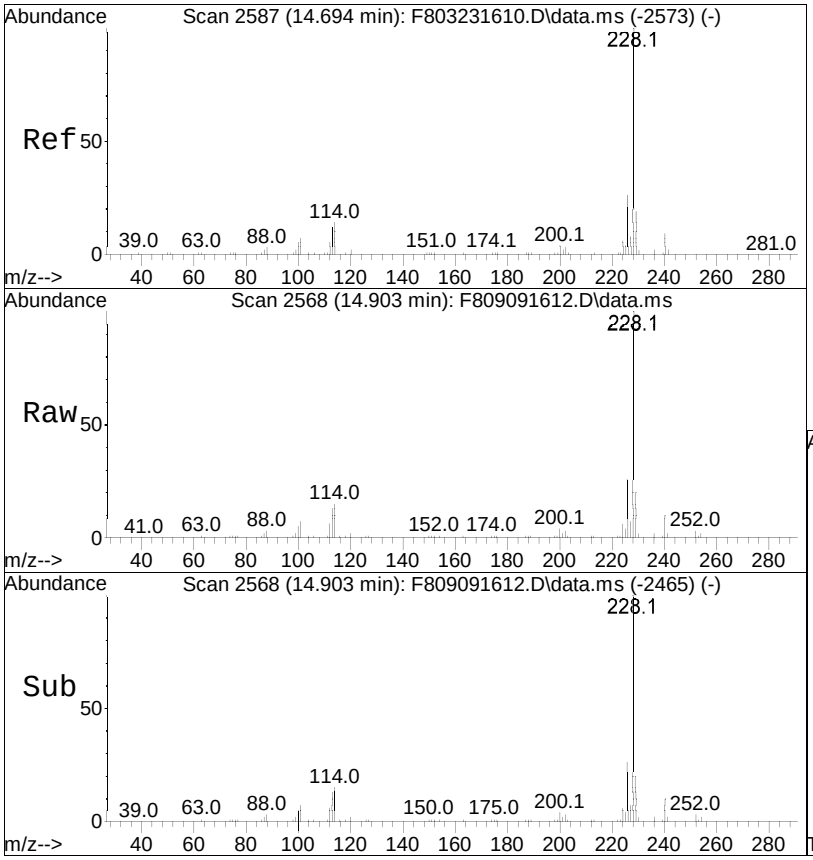


#81
3,3'-Dichlorobenzidine
Concen: 9.78 ug/mL
RT: 14.932 min Scan# 2574
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:252 Resp: 531358

Ion	Ratio	Lower	Upper
252	100		
254	61.3	52.0	78.0
126	17.9	13.6	20.4

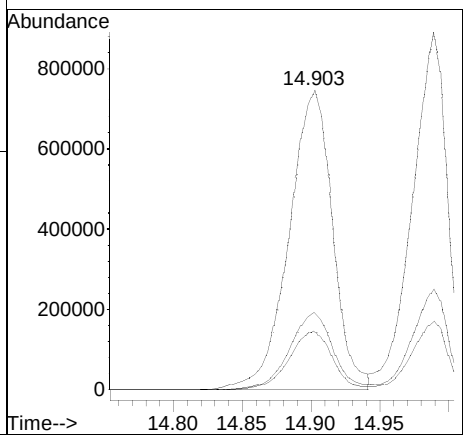


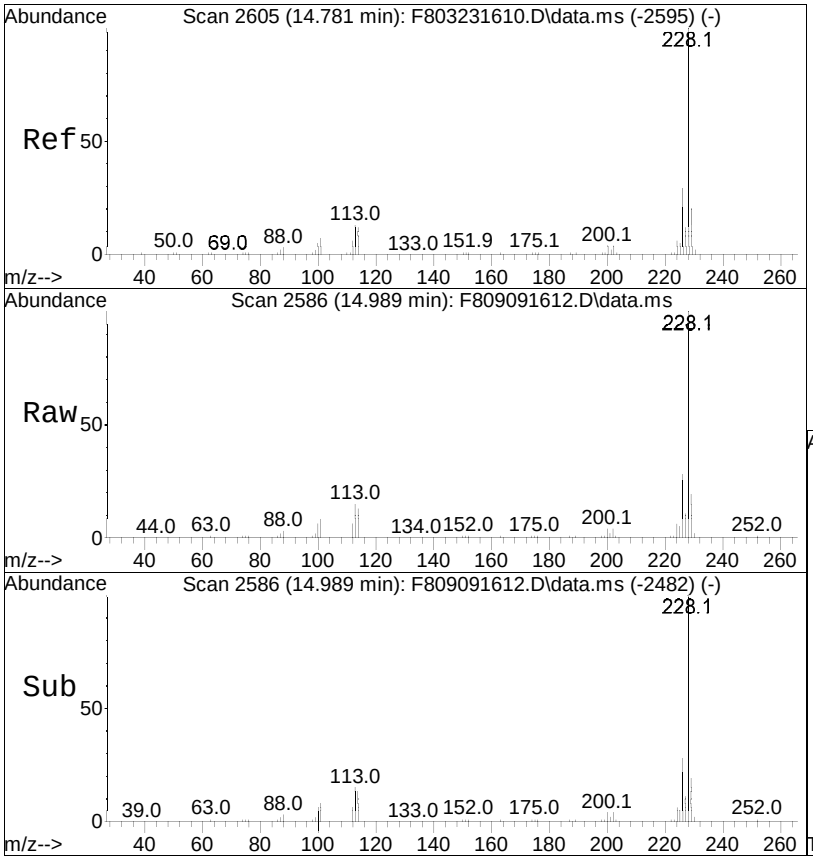


#82
Benz[a]anthracene
Concen: 10.47 ug/mL M6
RT: 14.903 min Scan# 2568
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:228 Resp: 1642657

Ion	Ratio	Lower	Upper
228	100		
229	19.8	15.9	23.9
226	26.1	21.2	31.8

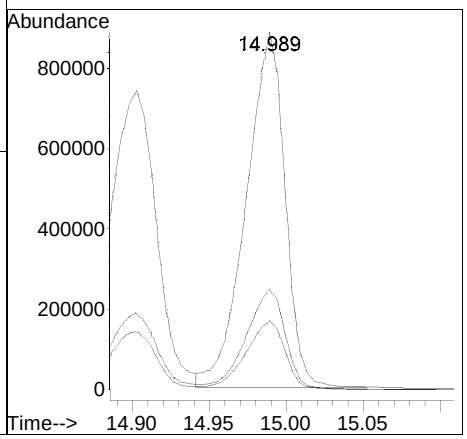


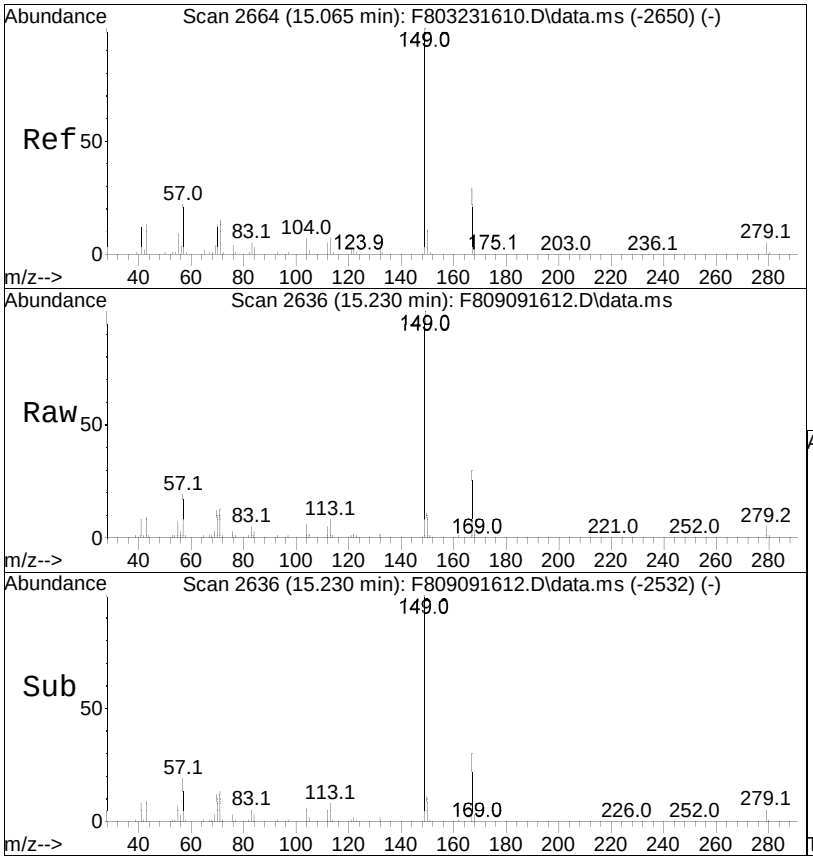


#83
Chrysene
Concen: 10.68 ug/mL M6
RT: 14.989 min Scan# 2586
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:228 Resp: 1555904

Ion	Ratio	Lower	Upper
228	100		
226	27.7	23.7	35.5
229	19.1	15.8	23.8

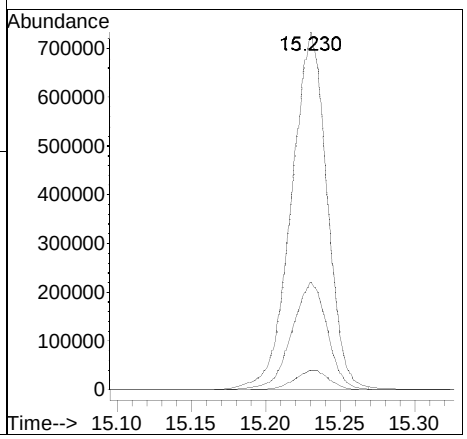


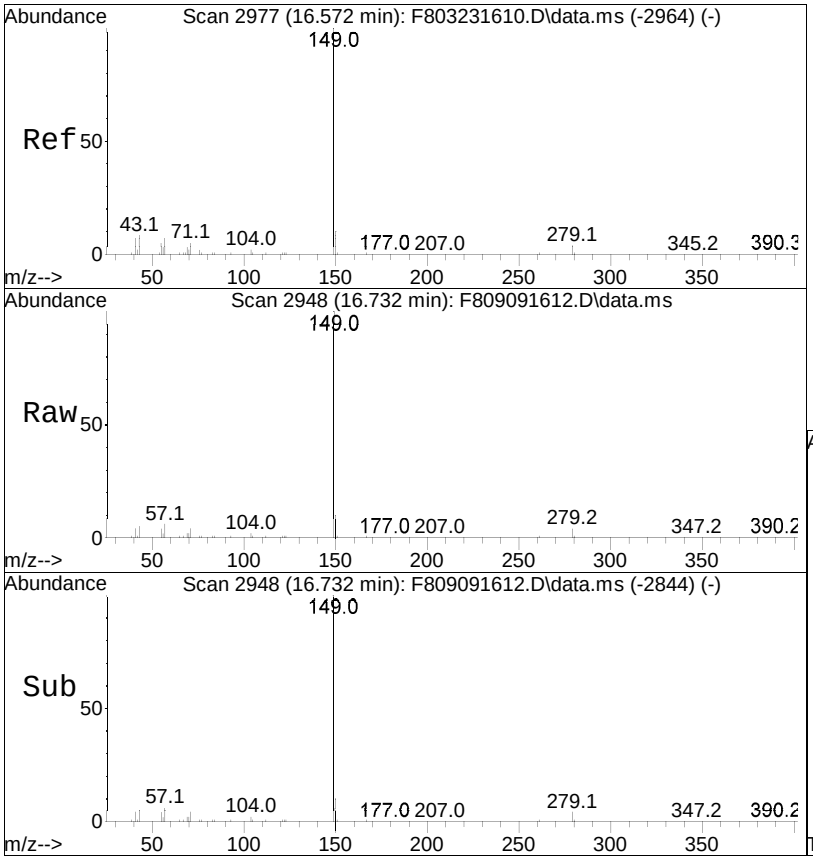


#84
bis(2-Ethylhexyl)phthalate
Concen: 11.34 ug/mL
RT: 15.230 min Scan# 2636
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:149 Resp: 1211599

Ion	Ratio	Lower	Upper
149	100		
167	30.2	23.8	35.6
279	5.4	4.0	6.0

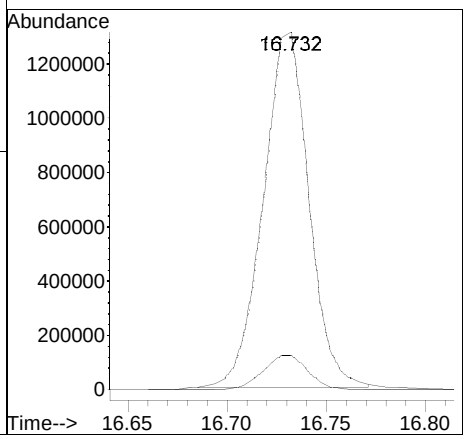


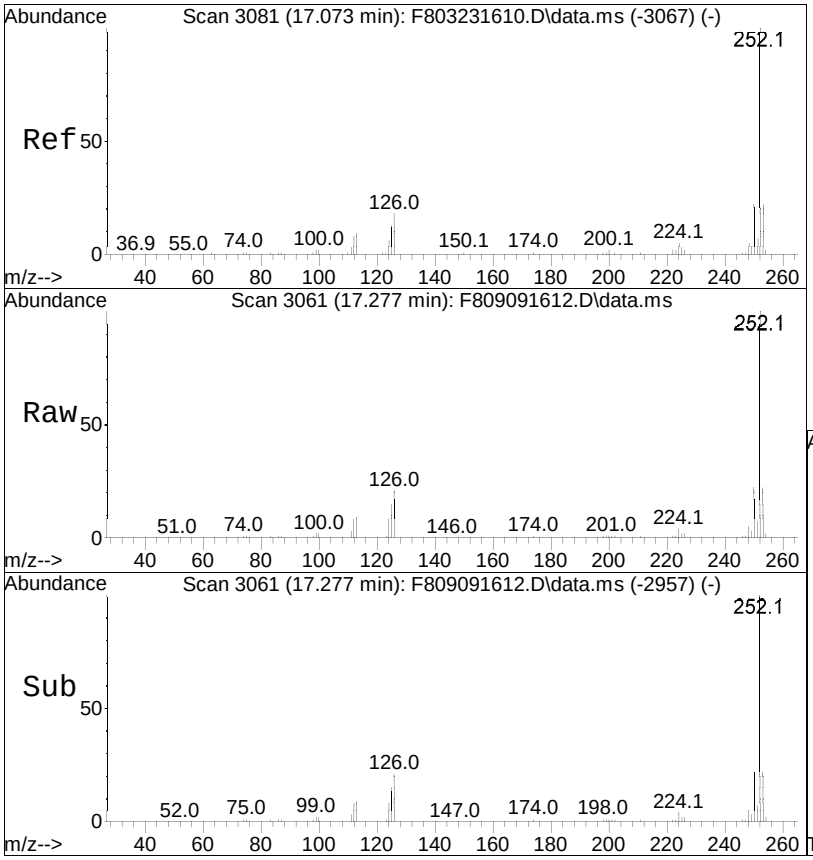


#86
Di-n-octylphthalate
Concen: 10.60 ug/mL
RT: 16.732 min Scan# 2948
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:149 Resp: 2058804

Ion	Ratio	Lower	Upper
149	100		
150	9.8	8.1	12.1

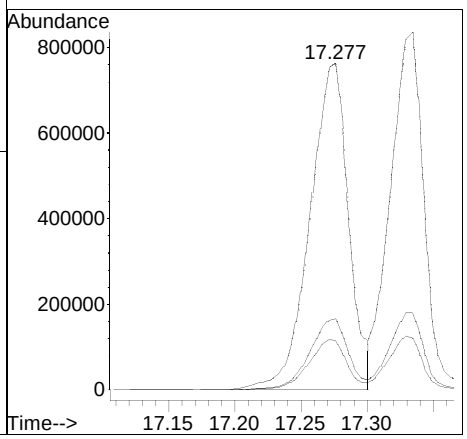


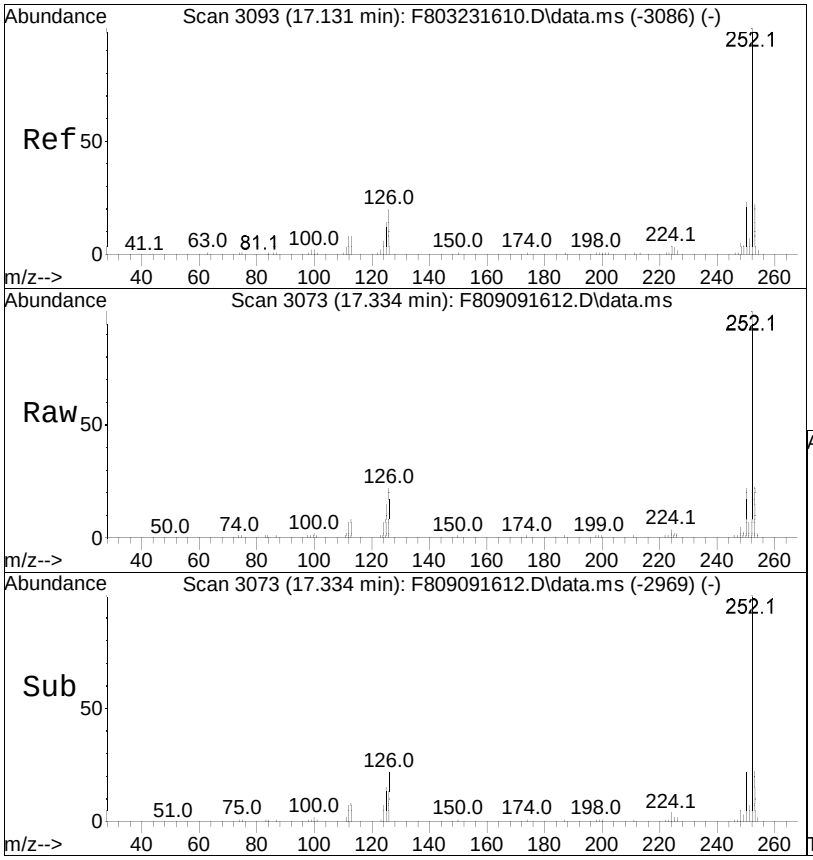


#87
Benzo[b]fluoranthene
Concen: 10.37 ug/mL
RT: 17.277 min Scan# 3061
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:252 Resp: 1547461

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	15.4	13.7	20.5

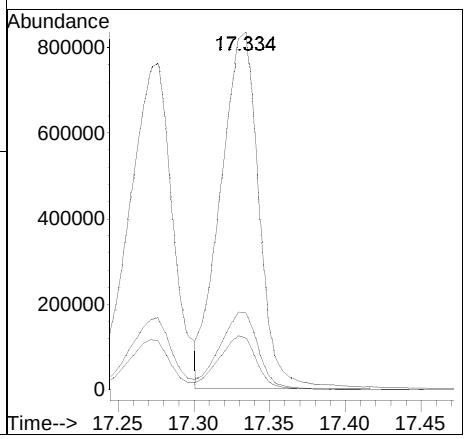


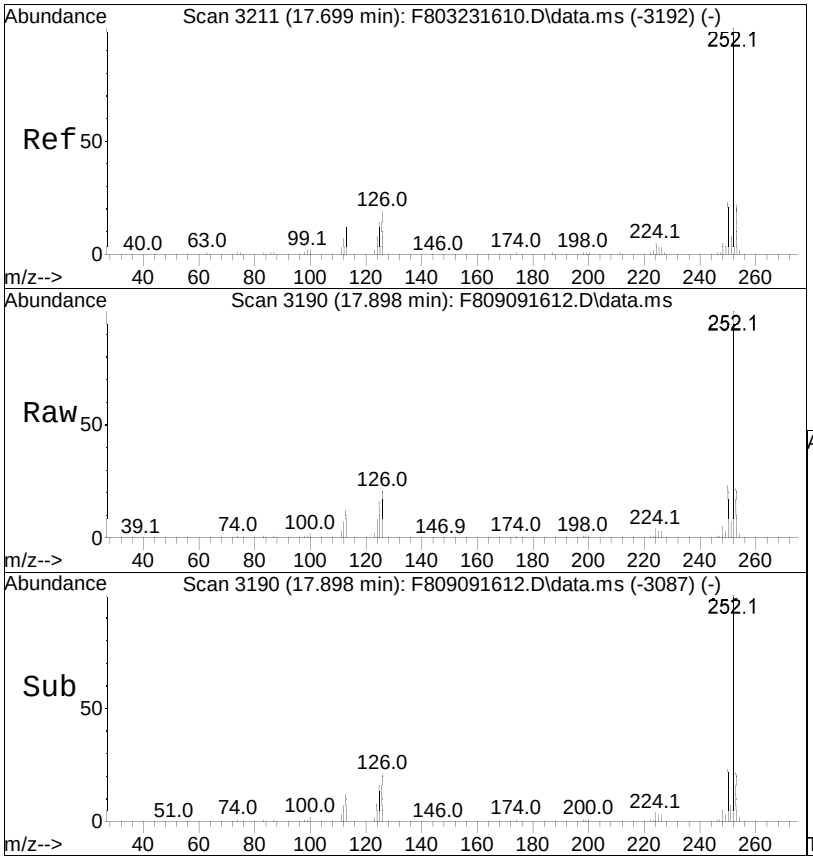


#88
Benzo[k]fluoranthene
Concen: 10.80 ug/mL M4
RT: 17.334 min Scan# 3073
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:252 Resp: 1473720

Ion	Ratio	Lower	Upper
252	100		
253	20.9	17.3	25.9
125	14.4	13.3	19.9

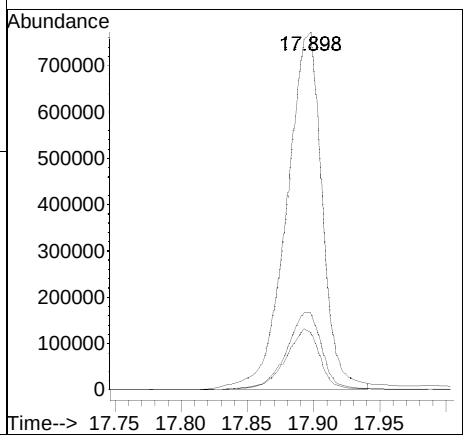


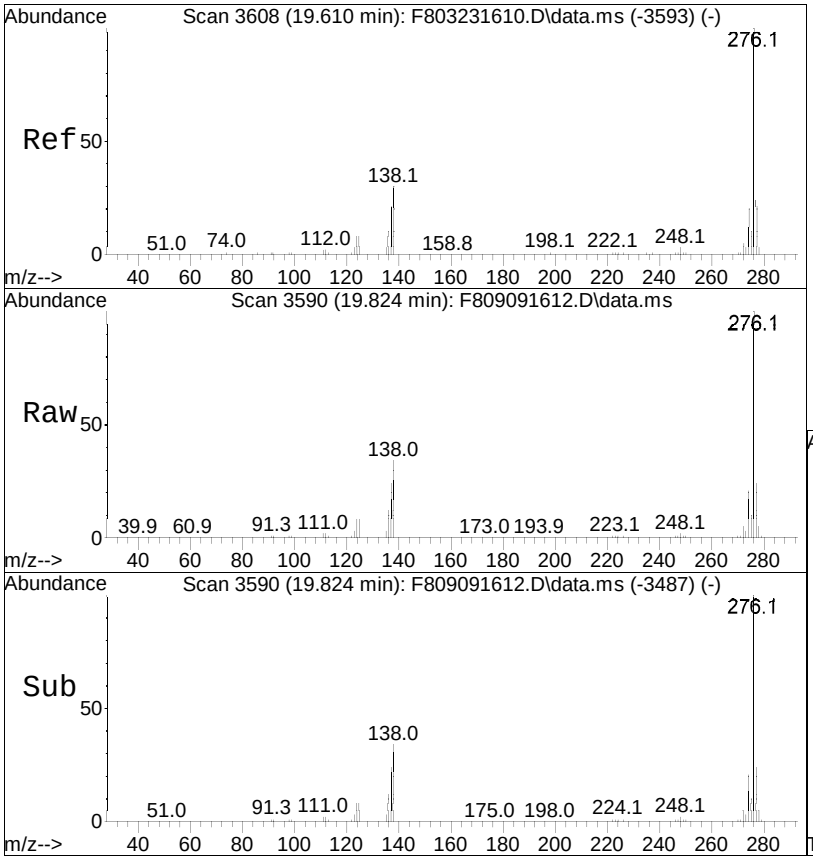


#89
Benzo[a]pyrene
Concen: 10.19 ug/mL
RT: 17.898 min Scan# 3190
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:252 Resp: 1432761

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.0
125	16.9	14.3	21.5

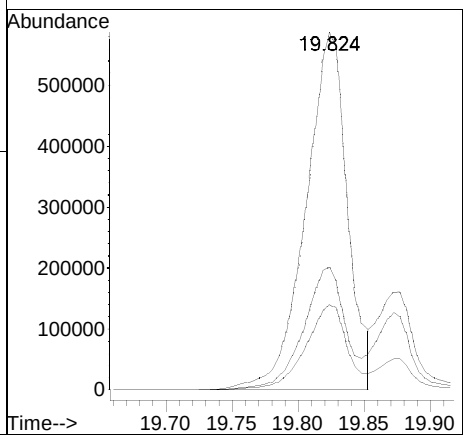


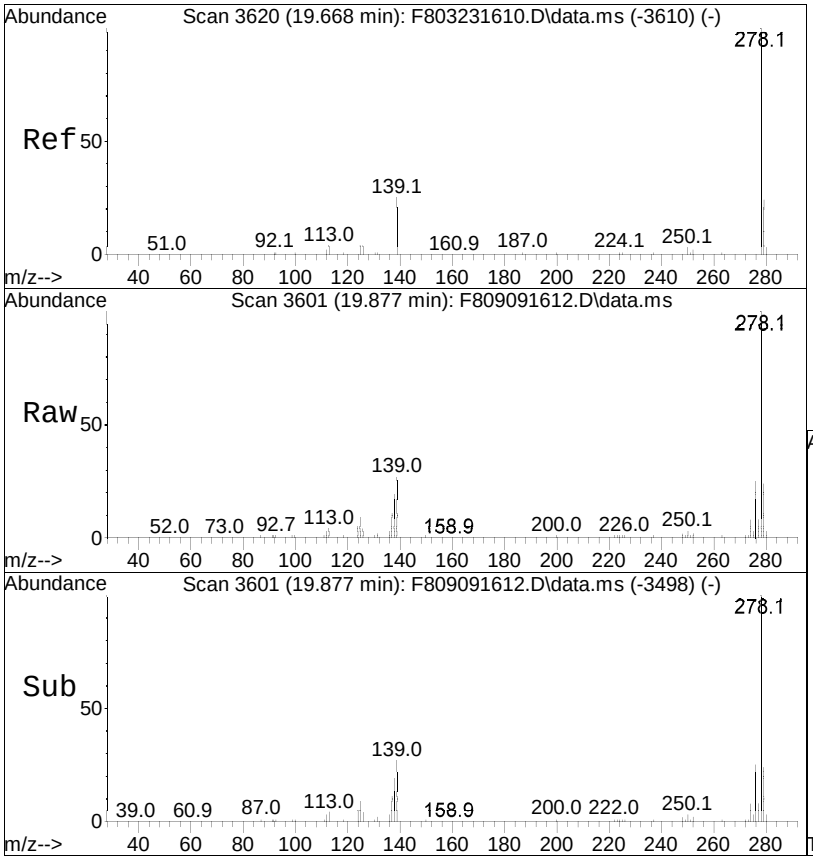


#90
Indeno[1,2,3-cd]pyrene
Concen: 10.46 ug/mL
RT: 19.824 min Scan# 3590
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:276 Resp: 1278738

Ion	Ratio	Lower	Upper
276	100		
138	36.0	28.2	42.2
277	24.2	19.4	29.0

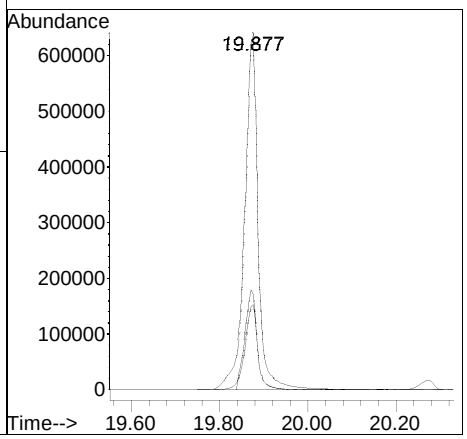


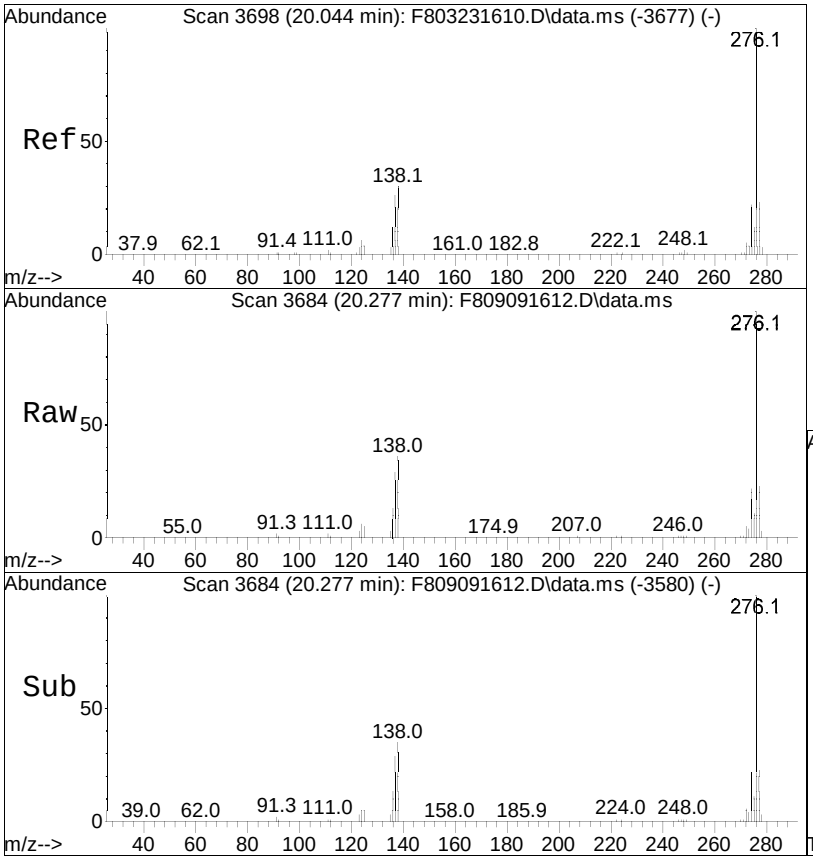


#91
Dibenz[a,h]anthracene
Concen: 10.99 ug/mL
RT: 19.877 min Scan# 3601
Delta R.T. -0.005 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:278 Resp: 1354464

Ion	Ratio	Lower	Upper
278	100		
139	26.0	23.4	35.0
279	23.6	19.4	29.0

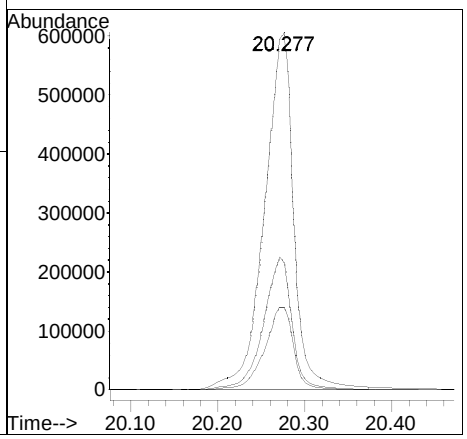




#92
Benzo[g,h,i]perylene
Concen: 10.54 ug/mL M4
RT: 20.277 min Scan# 3684
Delta R.T. 0.000 min
Lab File: F809091612.D
Acq: 9 Sep 2016 5:10 pm

Tgt Ion:276 Resp: 1393430

Ion	Ratio	Lower	Upper
276	100		
138	37.1	31.4	47.2
277	23.1	19.4	29.0



Duplicate Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091623.D
Acq On : 9 Sep 2016 10:48 pm
Operator : BNA8:ML
Sample : WG929407-4
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 12 14:29:20 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.877	152	235992	5.000 ug/mL	0.00
21) Naphthalene-d8	6.042	136	884652	5.000 ug/mL	0.00
38) Acenaphthene-d10	7.747	164	470372	5.000 ug/mL	0.00
61) Phenanthrene-d10	9.591	188	754756M4	5.000 ug/mL	0.00
76) Chrysene-d12	14.912	240	709245	5.000 ug/mL	0.00
85) Perylene-d12	17.994	264	644245	5.000 ug/mL	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	3.832	112	773069	13.639 ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 68.19%		
8) Phenol-d5	4.545	99	994320	14.481 ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 72.41%		
22) Nitrobenzene-d5	5.373	82	756037	14.646 ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 73.23%		
43) 2-Fluorobiphenyl	7.078	172	1811215	15.260 ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 76.30%		
65) 2,4,6-Tribromophenol	8.643	330	210869M1	18.995 ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 94.98%		
79) Terphenyl-d14	12.582	244	2381105	21.463 ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 107.32%		

Target Compounds			Qvalue
9) Phenol	0.000	0	N.D.
12) 1,4-Dichlorobenzene	0.000	0	N.D. d
13) 1,2-Dichlorobenzene	0.000	0	N.D. d
14) Benzyl alcohol	0.000	0	N.D.
20) 4-Methylphenol	0.000	0	N.D.
26) 2,4-Dimethylphenol	0.000	0	N.D.
27) Benzoic acid	0.000	0	N.D.
30) 1,2,4-Trichlorobenzene	0.000	0	N.D.
31) Naphthalene	0.000	0	N.D. d
37) 2-Methylnaphthalene	0.000	0	N.D.
48) Dimethylphthalate	0.000	0	N.D.
50) Acenaphthene	0.000	0	N.D.
53) Dibenzofuran	0.000	0	N.D.
57) Fluorene	0.000	0	N.D.
64) n-Nitrosodiphenylamine	0.000	0	N.D. d

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091623.D
Acq On : 9 Sep 2016 10:48 pm
Operator : BNA8:ML
Sample : WG929407-4
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 12 14:29:20 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
67) Hexachlorobenzene	0.000		0	N.D.	
69) Pentachlorophenol	0.000		0	N.D.	
71) Phenanthrene	0.000		0	N.D.	
72) Anthracene	0.000		0	N.D.	
75) Fluoranthene	0.000		0	N.D.	
78) Pyrene	0.000		0	N.D.	
80) Butylbenzylphthalate	0.000		0	N.D.	
82) Benz[a]anthracene	0.000		0	N.D.	d
83) Chrysene	0.000		0	N.D.	d
84) bis(2-Ethylhexyl)phthalat	0.000		0	N.D.	d
87) Benzo[b]fluoranthene	0.000		0	N.D.	
88) Benzo[k]fluoranthene	0.000		0	N.D.	
89) Benzo[a]pyrene	0.000		0	N.D.	d
90) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	
91) Dibenz[a,h]anthracene	0.000		0	N.D.	
92) Benzo[g,h,i]perylene	0.000		0	N.D.	

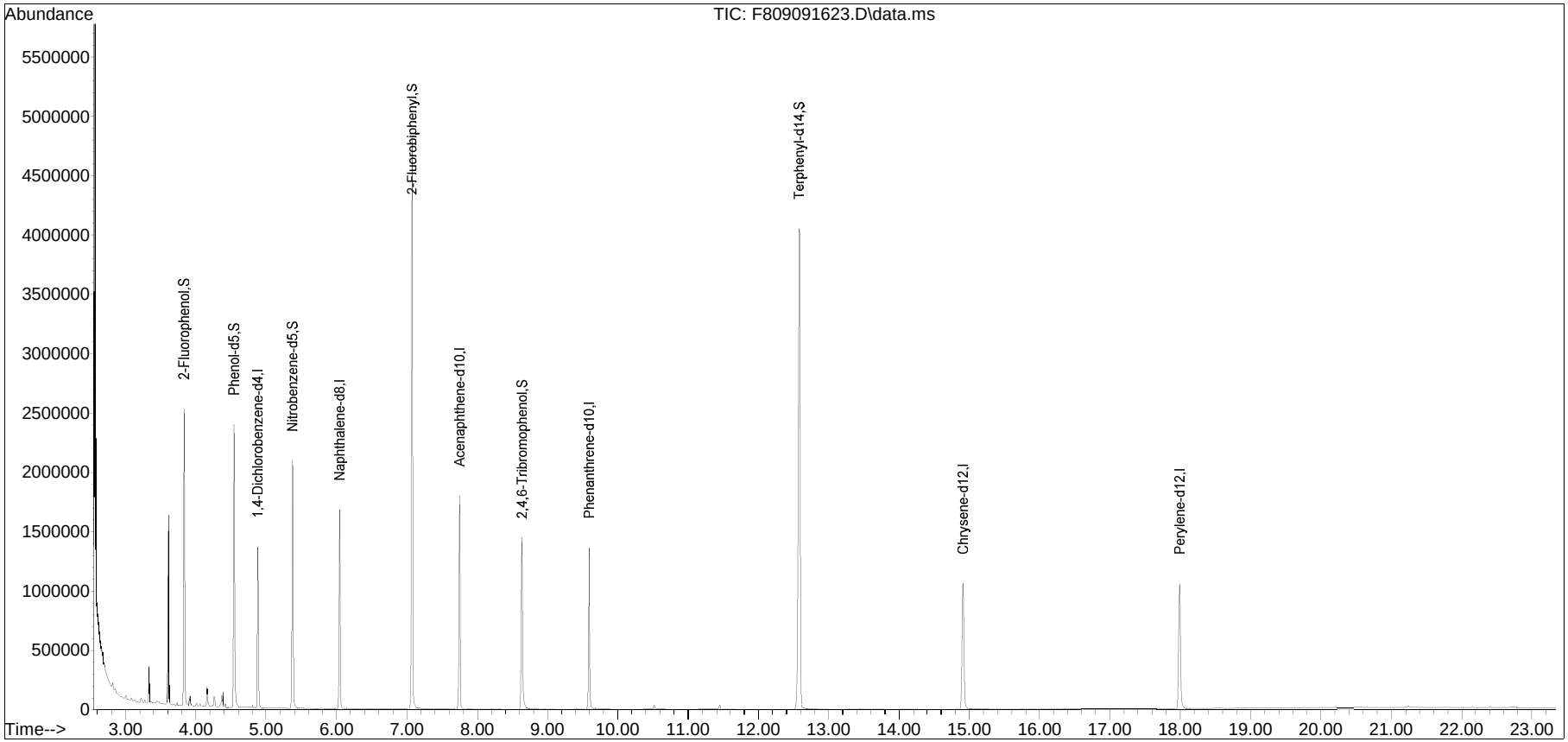
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091623.D
Acq On : 9 Sep 2016 10:48 pm
Operator : BNA8:ML
Sample : WG929407-4
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 12 14:29:20 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed



SV0908BNA8.M Mon Sep 12 14:42:10 2016

Matrix Spike / Matrix Spike Duplicate Raw Data

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091624.D
Acq On : 9 Sep 2016 11:18 pm
Operator : BNA8:ML
Sample : WG929407-5
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 12 14:32:25 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	233009	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	853238	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	452483	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	742703	5.000	ug/mL	0.00
76) Chrysene-d12	14.922	240	681656	5.000	ug/mL	0.00
85) Perylene-d12	17.994	264	589459	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.832	112	658401	11.765	ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 58.83%			
8) Phenol-d5	4.550	99	865217	12.762	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 63.81%			
22) Nitrobenzene-d5	5.373	82	624233	12.538	ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 62.69%			
43) 2-Fluorobiphenyl	7.078	172	1693763	14.835	ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 74.17%			
65) 2,4,6-Tribromophenol	8.647	330	224557M4	20.557	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 102.79%			
79) Terphenyl-d14	12.582	244	2145637	20.123	ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 100.62%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.932	74	198649	7.098	ug/mL#	97
3) Pyridine	2.961	79	288262	5.278	ug/mL	98
5) Benzaldehyde	4.511	77	214873	4.918	ug/ml	99
6) Aniline	4.598	93	485864M4	5.907	ug/ml	
7) bis(2-Chloroethyl)ether	4.641	63	215449M4	6.172	ug/mL	
9) Phenol	4.559	94	464704	6.689	ug/mL#	87
10) 2-Chlorophenol	4.699	128	398309	6.324	ug/mL	99
11) 1,3-Dichlorobenzene	4.829	146	437250	6.293	ug/mL	100
12) 1,4-Dichlorobenzene	4.896	146	432718	6.260	ug/mL	99
13) 1,2-Dichlorobenzene	5.026	146	414468	6.311	ug/mL	100
14) Benzyl alcohol	4.993	108	271598	7.254	ug/mL	99
15) bis(2-chloroisopropyl)eth	5.108	45	301740	6.227	ug/mL#	64
16) 2-Methylphenol	5.084	108	324995M4	6.644	ug/mL	
17) Acetophenone	5.233	105	458896	6.140	ug/ml#	77
18) Hexachloroethane	5.330	117	152854	6.057	ug/mL	93
19) N-Nitroso-di-n-propylamin	5.229	70	243658	7.133	ug/mL	94
20) 4-Methylphenol	5.224	108	366183	6.929	ug/mL	97

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091624.D
Acq On : 9 Sep 2016 11:18 pm
Operator : BNA8:ML
Sample : WG929407-5
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 12 14:32:25 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Nitrobenzene	5.392	77	322935	6.525	ug/mL	95
24) Isophorone	5.609	82	660066	8.288	ug/mL	97
25) 2-Nitrophenol	5.681	139	224009	6.923	ug/mL#	88
26) 2,4-Dimethylphenol	5.715	107	295255	5.738	ug/mL	97
27) Benzoic acid	5.874	105	696454	28.352	ug/mL	94
28) bis(2-Chloroethoxy)methan	5.802	93	426251	7.389	ug/mL	99
29) 2,4-Dichlorophenol	5.908	162	354838	7.538	ug/mL	99
30) 1,2,4-Trichlorobenzene	5.985	180	326929	6.397	ug/mL	99
31) Naphthalene	6.062	128	1060774	6.470	ug/mL	99
32) 2-Chloroaniline	5.648	127	571321	6.910	ug/ml	99
33) 4-Chloroaniline	6.115	127	526368M4	7.456	ug/mL	
34) Hexachlorobutadiene	6.172	225	158657	6.106	ug/mL	99
35) Caprolactam	6.466	113	160385M4	10.522	ug/ml	
36) 4-Chloro-3-methylphenol	6.577	107	396886	8.752	ug/mL	99
37) 2-Methylnaphthalene	6.721	142	806829	7.254	ug/mL	99
39) 1,2,4,5-Tetrachlorobenzen	6.880	216	351916	7.464	ug/mL	99
40) Hexachlorocyclopentadiene	6.871	237	115898	5.679	ug/mL	96
41) 2,4,6-Trichlorophenol	6.996	196	293220	8.631	ug/mL	100
42) 2,4,5-Trichlorophenol	7.034	196	289582M6	9.592	ug/mL	
44) Biphenyl	7.174	154	963223	7.376	ug/ml	98
45) 2-Chloronaphthalene	7.198	162	795222	7.783	ug/mL	98
46) 2-Nitroaniline	7.299	65	221105M4	9.361	ug/mL	
47) Acenaphthylene	7.607	152	1413129	8.365	ug/mL	99
48) Dimethylphthalate	7.473	163	1074812	9.779	ug/mL	100
49) 2,6-Dinitrotoluene	7.535	165	252204	9.879	ug/mL	91
50) Acenaphthene	7.781	153	865791	8.423	ug/mL	98
51) 3-Nitroaniline	7.708	138	280787M4	9.612	ug/mL	
52) 2,4-Dinitrophenol	7.814	184	104236	8.885	ug/mL#	83
53) Dibenzofuran	7.964	168	1190739	8.873	ug/mL	98
54) 2,3,4,6-Tetrachlorophenol	8.099	232	217881M4	10.703	ug/mL	
55) 2,4-Dinitrotoluene	7.954	165	336659	10.280	ug/mL	89
56) 4-Nitrophenol	7.891	109	113491M4	10.257	ug/mL	
57) Fluorene	8.354	166	1006350	9.104	ug/mL	100
58) 4-Chlorophenyl-phenylethe	8.349	204	452236	9.138	ug/mL	99
59) Diethylphthalate	8.214	149	1143427	10.179	ug/mL	99
60) 4-Nitroaniline	8.387	138	312647	10.362	ug/mL	98
62) 4,6-Dinitro-2-methylpheno	8.412	198	167658M4	9.850	ug/mL	
63) Azobenzene	8.542	182	293637	9.745	ug/mL	77
64) n-Nitrosodiphenylamine	8.493	169	796742M4	10.094	ug/mL	
66) 4-Bromophenyl-phenylether	8.960	248	263452M4	9.558	ug/mL	
67) Hexachlorobenzene	9.037	284	279040	9.683	ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091624.D
Acq On : 9 Sep 2016 11:18 pm
Operator : BNA8:ML
Sample : WG929407-5
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 12 14:32:25 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) Atrazine	9.196	200	271005M4	8.901	ug/ml	
69) Pentachlorophenol	9.322	266	152465	9.677	ug/mL	97
70) Pentachloronitrobenzene	9.331	237	120628	10.509	ug/ml	91
71) Phenanthrene	9.635	178	1579599	9.784	ug/mL	99
72) Anthracene	9.712	178	1536901M4	9.636	ug/mL	
73) Carbazole	9.976	167	1604360	10.474	ug/mL	99
74) Di-n-butylphthalate	10.598	149	1947277	10.510	ug/mL	99
75) Fluoranthene	11.724	202	1680766	10.068	ug/mL	95
77) Benzidine	12.052	184	424722	3.773	ug/mL	99
78) Pyrene	12.182	202	1745147	10.258	ug/mL	97
80) Butylbenzylphthalate	13.766	149	912573	10.932	ug/mL	97
81) 3,3'-Dichlorobenzidine	14.931	252	484232	8.673	ug/mL	99
82) Benz[a]anthracene	14.903	228	1640459	10.170	ug/mL	99
83) Chrysene	14.989	228	1589008M4	10.611	ug/mL	
84) bis(2-Ethylhexyl)phthalat	15.230	149	1210286	11.019	ug/mL	99
86) Di-n-octylphthalate	16.728	149	2129731	11.373	ug/mL	99
87) Benzo[b]fluoranthene	17.272	252	1482486	10.300	ug/mL	98
88) Benzo[k]fluoranthene	17.329	252	1537450M4	11.686	ug/mL	
89) Benzo[a]pyrene	17.893	252	1410201	10.401	ug/mL	99
90) Indeno[1,2,3-cd]pyrene	19.824	276	1257033	10.661	ug/mL	99
91) Dibenz[a,h]anthracene	19.872	278	1361761	11.462	ug/mL	97
92) Benzo[g,h,i]perylene	20.272	276	1405569	11.022	ug/mL	97

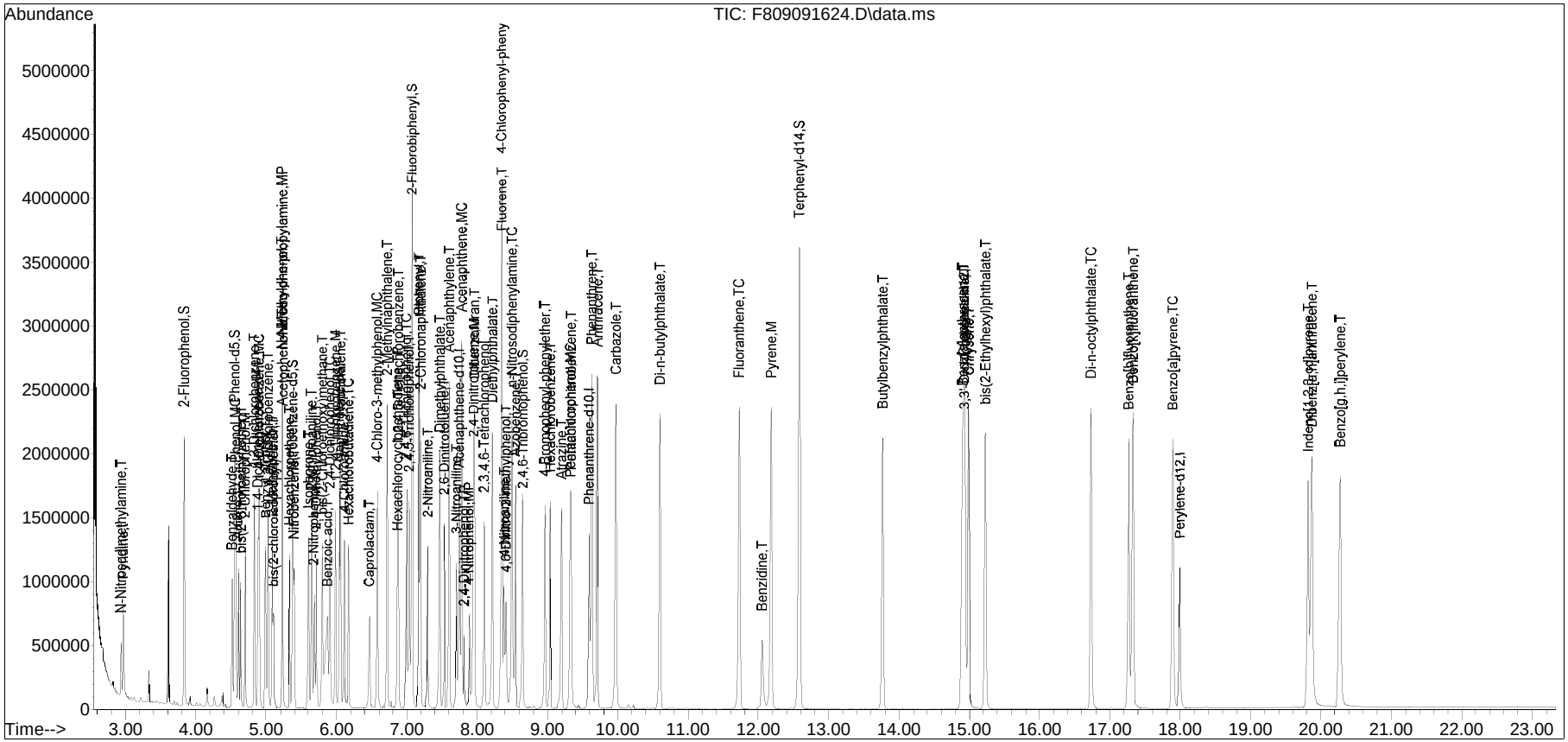
(#) = qualifier out of range (m) = manual integration (+) = signals summed

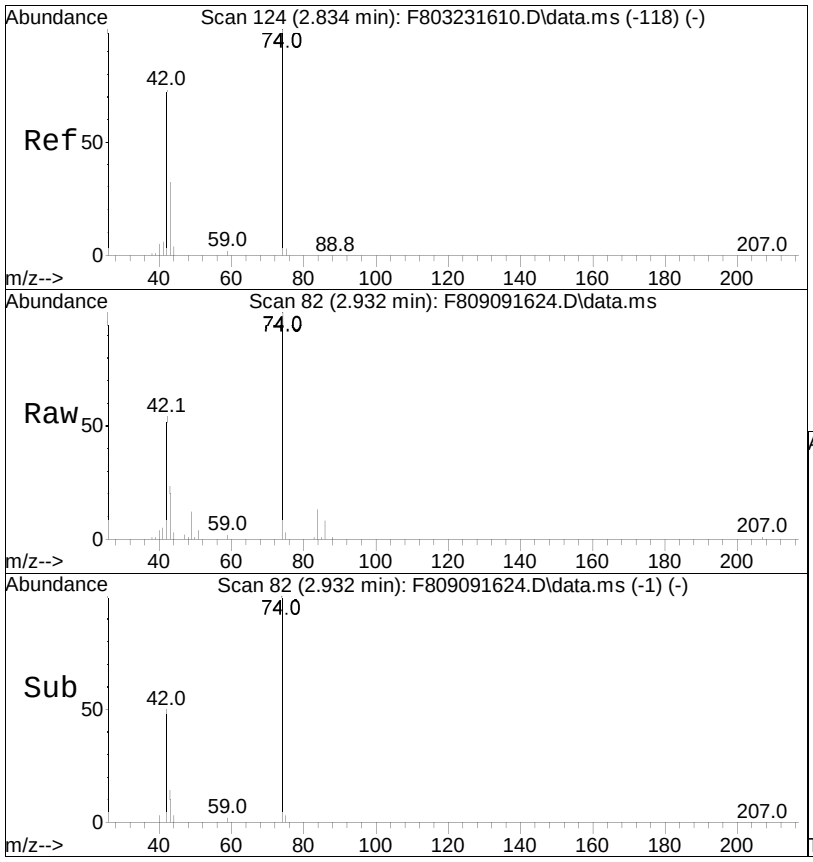
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091624.D
Acq On : 9 Sep 2016 11:18 pm
Operator : BNA8:ML
Sample : WG929407-5
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 12 14:32:25 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

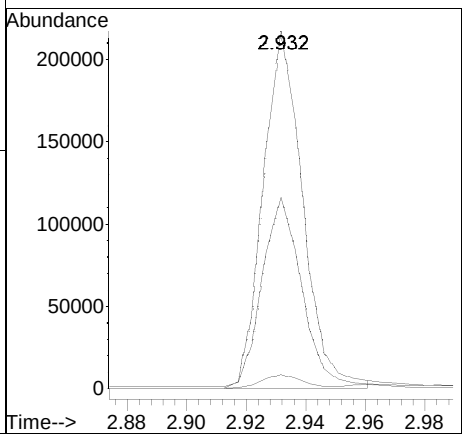


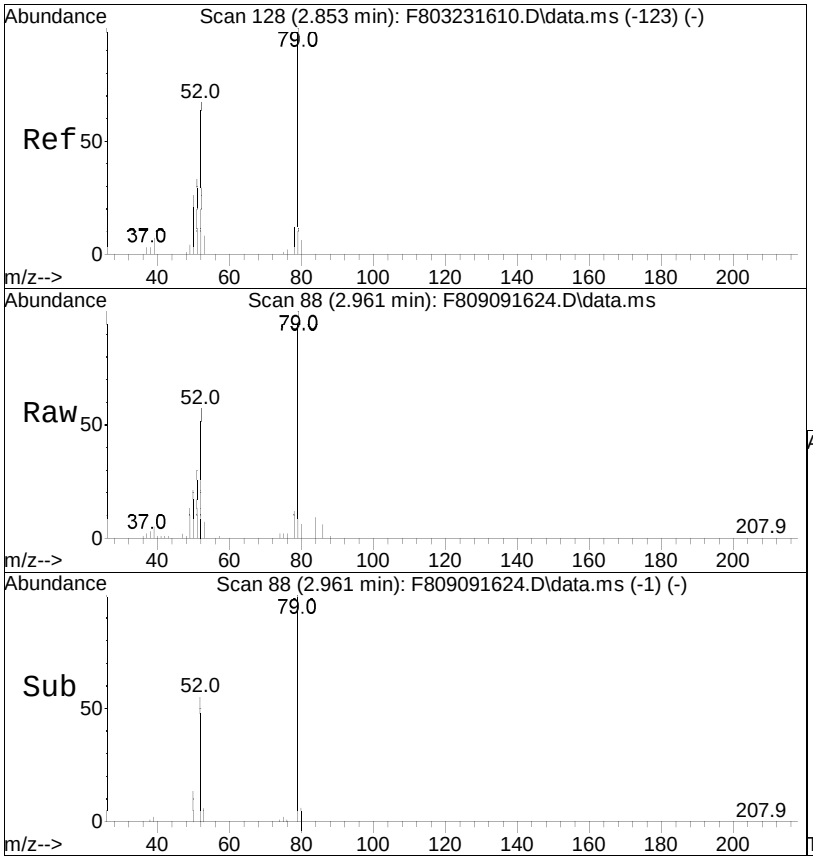


#2
N-Nitrosodimethylamine
Concen: 7.10 ug/mL
RT: 2.932 min Scan# 82
Delta R.T. -0.014 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion: 74 Resp: 198649

Ion	Ratio	Lower	Upper
74	100		
42	52.9	43.8	65.6
40	3.9	4.2	6.4#

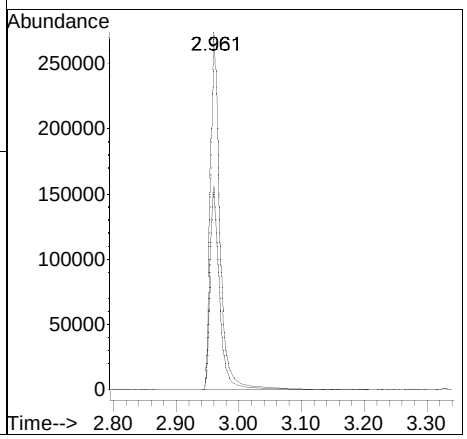


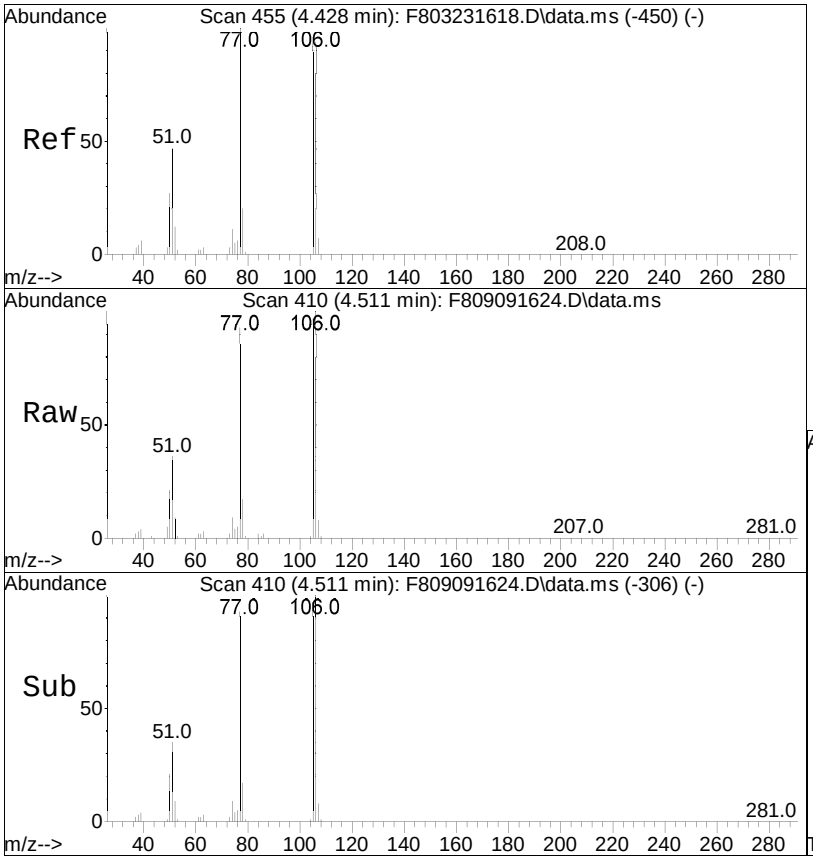


#3
Pyridine
Concen: 5.28 ug/mL
RT: 2.961 min Scan# 88
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion: 79 Resp: 288262

Ion	Ratio	Lower	Upper
79	100		
52	56.5	46.6	69.8

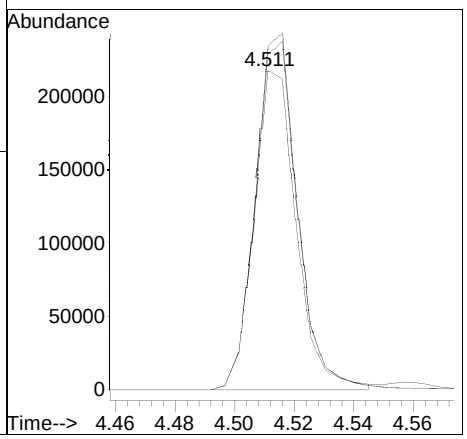


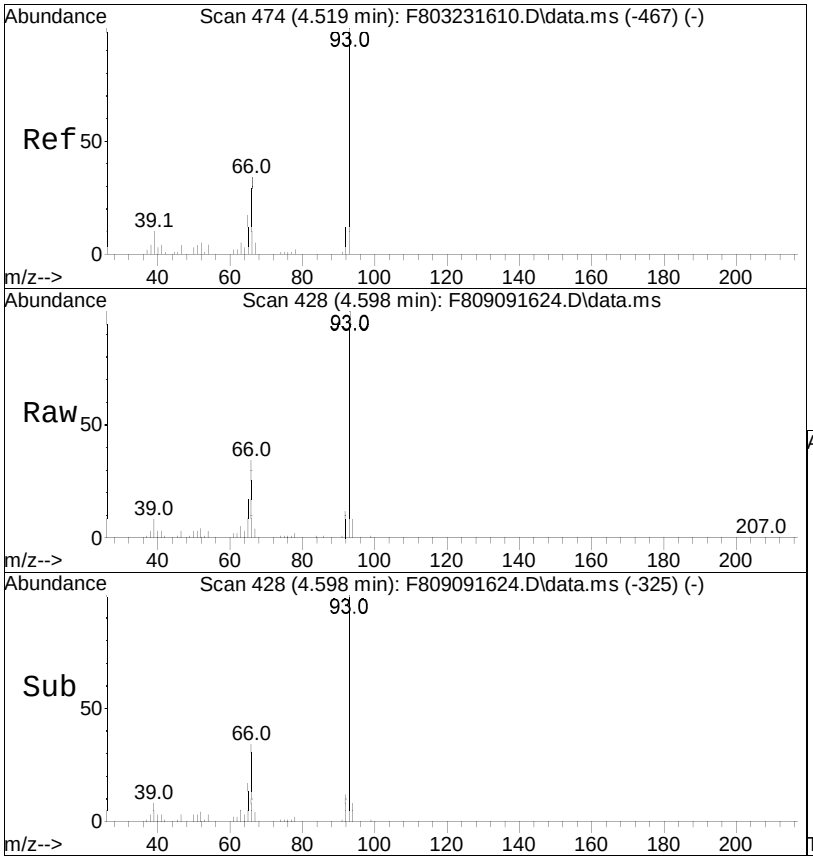


#5
Benzaldehyde
Concen: 4.92 ug/ml
RT: 4.511 min Scan# 410
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion: 77 Resp: 214873

Ion	Ratio	Lower	Upper
77	100		
105	108.7	88.1	132.1
106	111.3	89.8	134.8

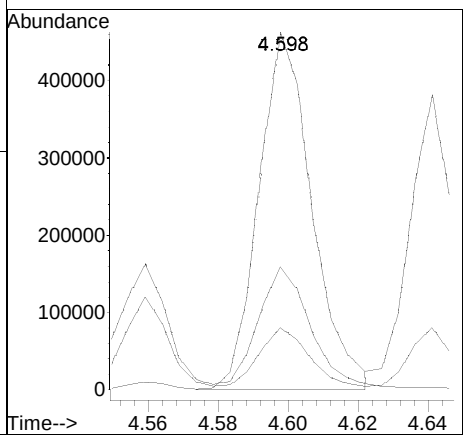


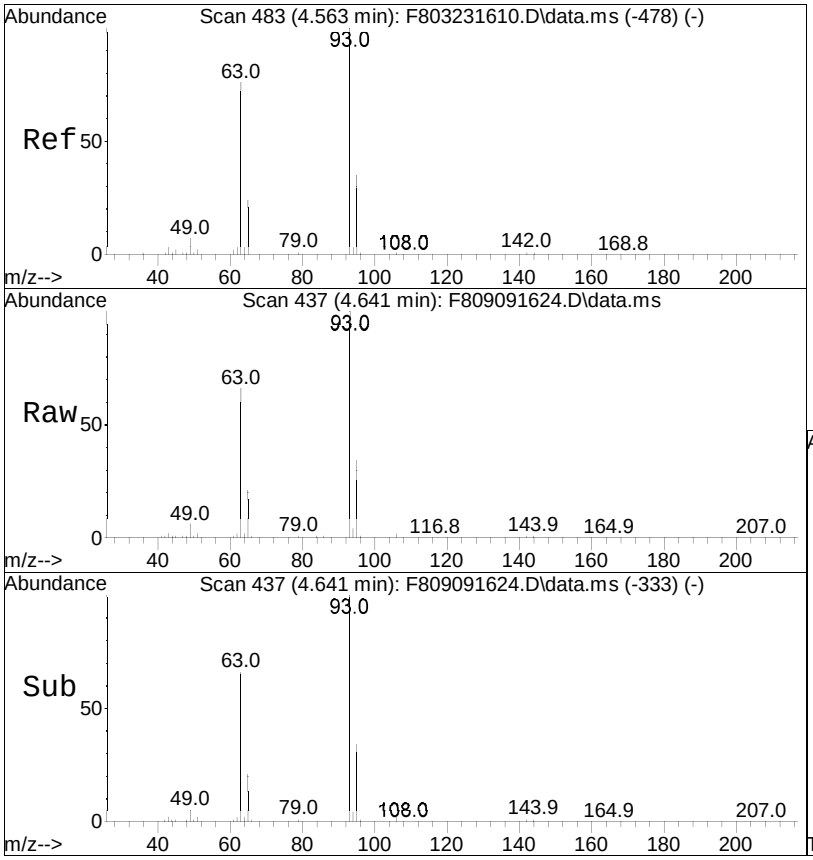


#6
Aniline
Concen: 5.91 ug/ml M4
RT: 4.598 min Scan# 428
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion: 93 Resp: 485864

Ion	Ratio	Lower	Upper
93	100		
66	33.2	26.7	40.1
65	17.3	14.2	21.4

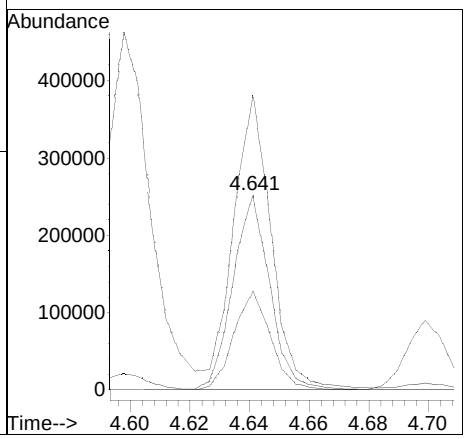


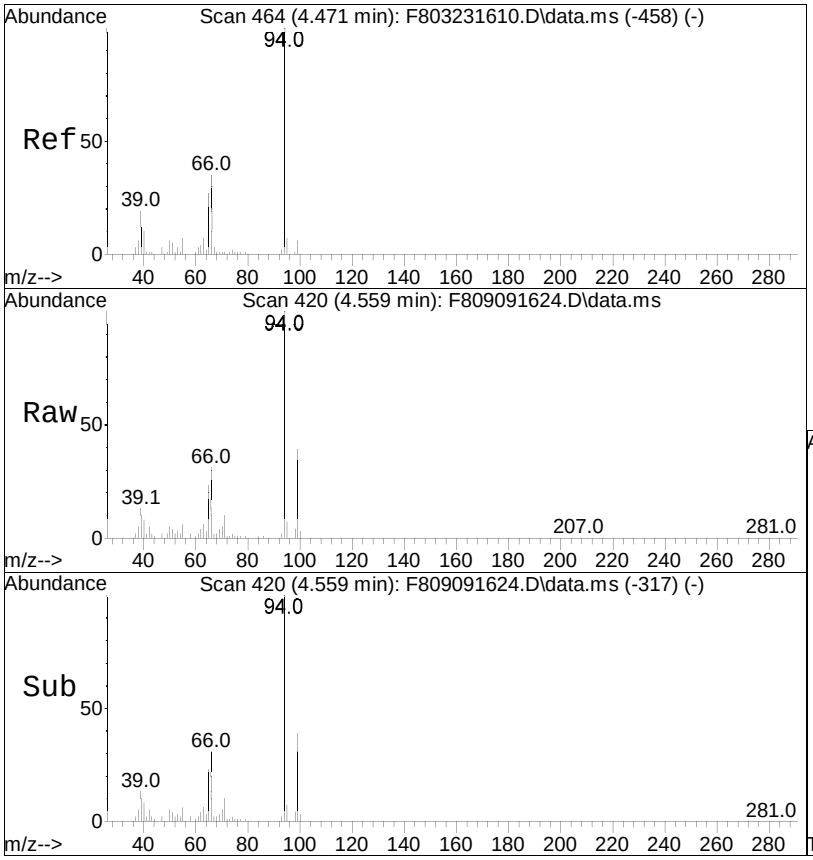


#7
bis(2-Chloroethyl)ether
Concen: 6.17 ug/mL M4
RT: 4.641 min Scan# 437
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion: 63 Resp: 215449

Ion	Ratio	Lower	Upper
63	100		
93	159.2	123.0	184.4
95	50.7	41.1	61.7

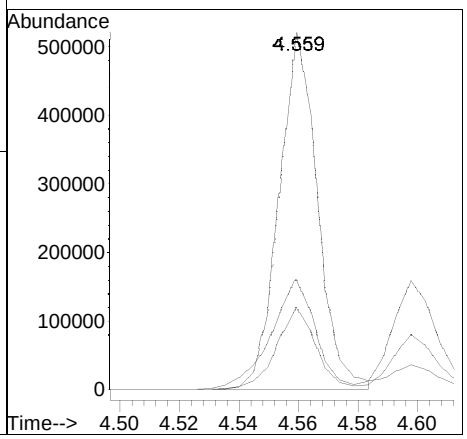


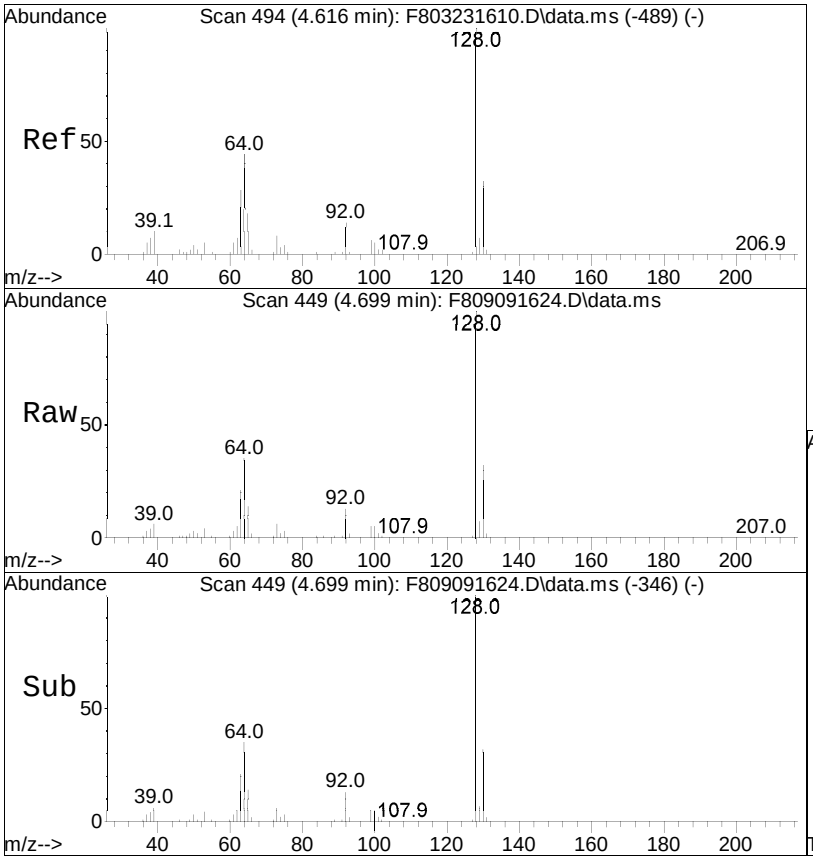


#9
Phenol
Concen: 6.69 ug/mL
RT: 4.559 min Scan# 420
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion: 94 Resp: 464704

Ion	Ratio	Lower	Upper
94	100		
66	37.1	21.7	32.5#
65	24.2	17.6	26.4

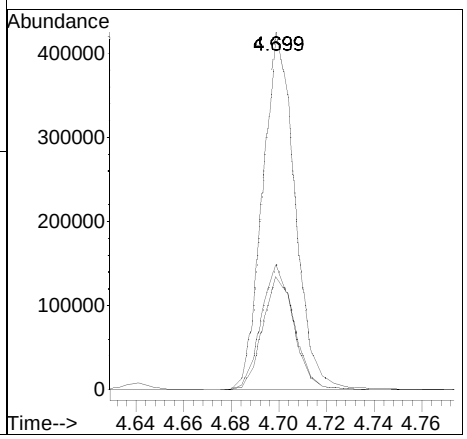


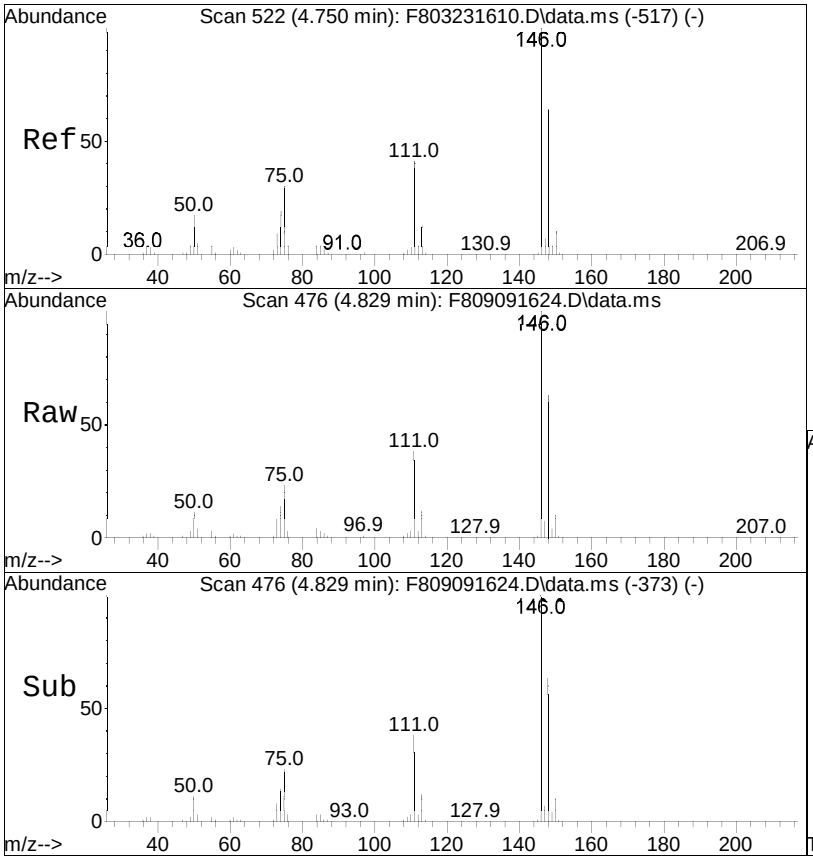


#10
2-Chlorophenol
Concen: 6.32 ug/mL
RT: 4.699 min Scan# 449
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:128 Resp: 398309

Ion	Ratio	Lower	Upper
128	100		
64	34.7	27.6	41.4
130	32.3	26.2	39.4

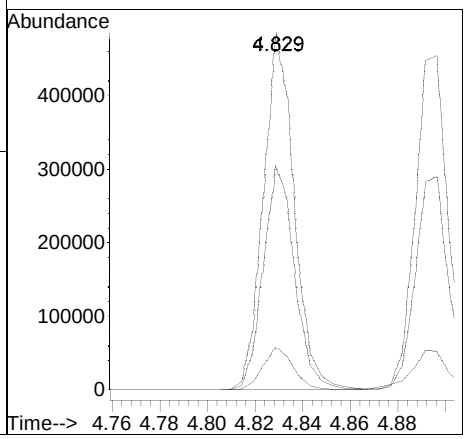


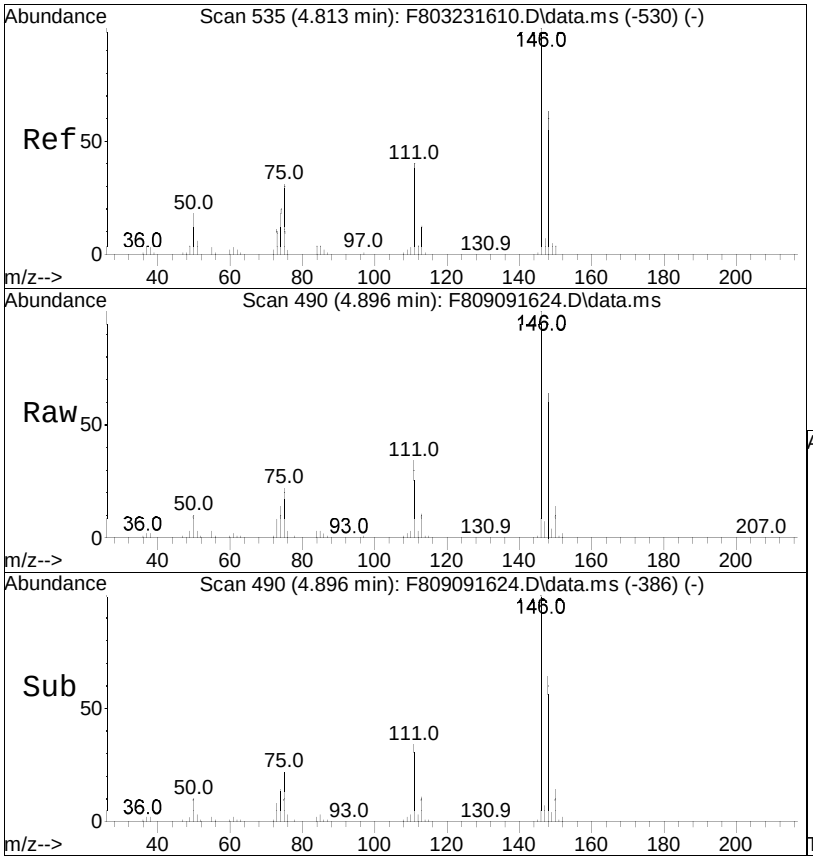


#11
1,3-Dichlorobenzene
Concen: 6.29 ug/mL
RT: 4.829 min Scan# 476
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:146 Resp: 437250

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.0	76.6
113	11.7	9.7	14.5

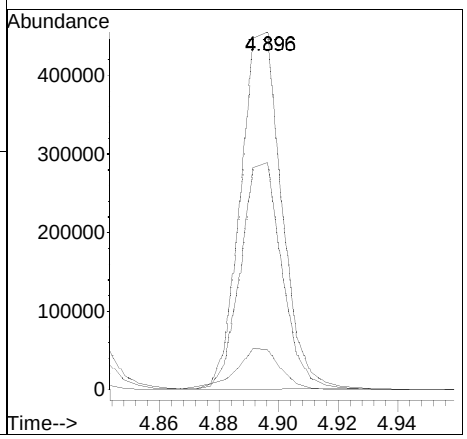


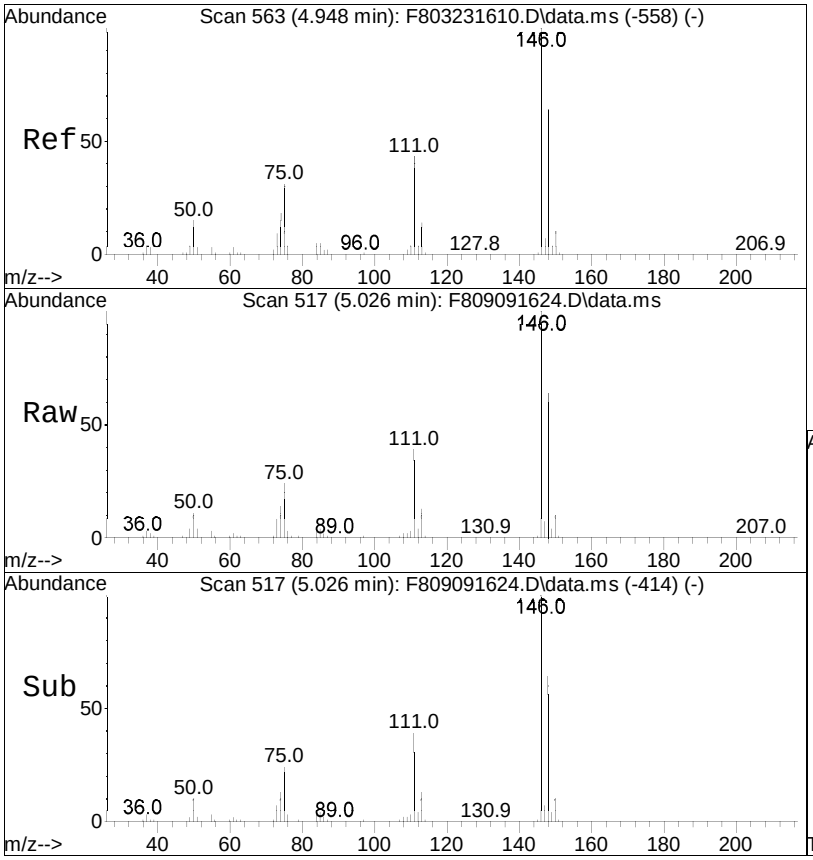


#12
1,4-Dichlorobenzene
Concen: 6.26 ug/mL
RT: 4.896 min Scan# 490
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:146 Resp: 432718

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.2	76.8
113	13.0	9.1	13.7

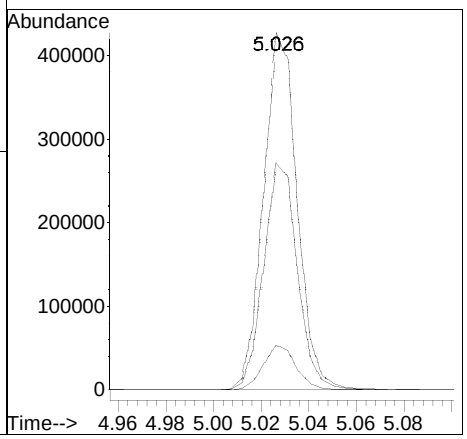


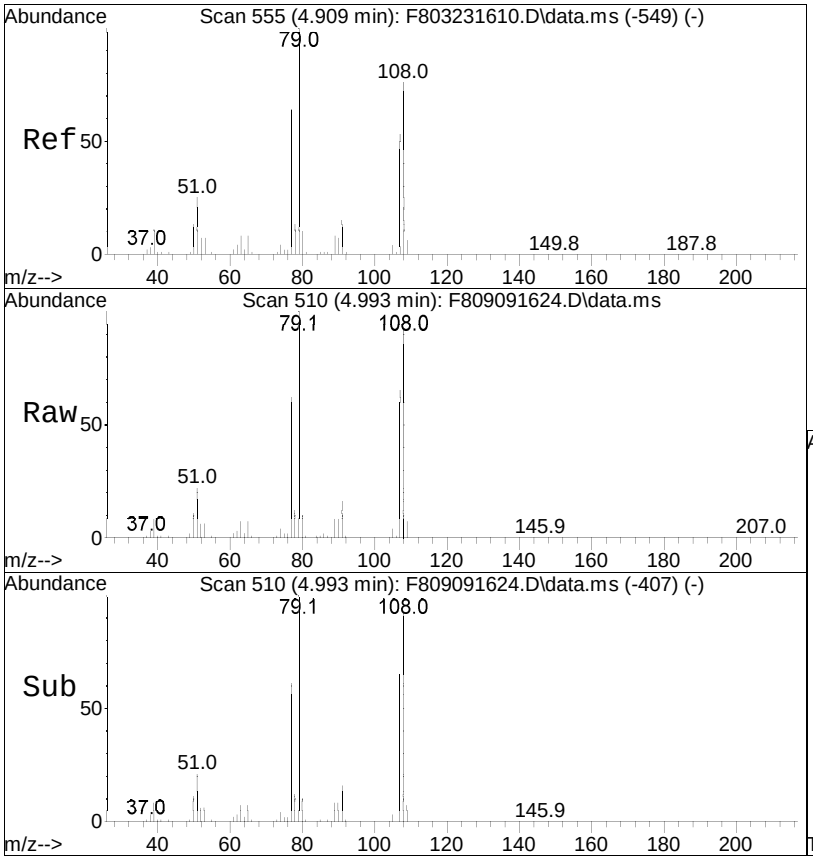


#13
1,2-Dichlorobenzene
Concen: 6.31 ug/mL
RT: 5.026 min Scan# 517
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:146 Resp: 414468

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.0	76.6
113	12.4	10.0	15.0

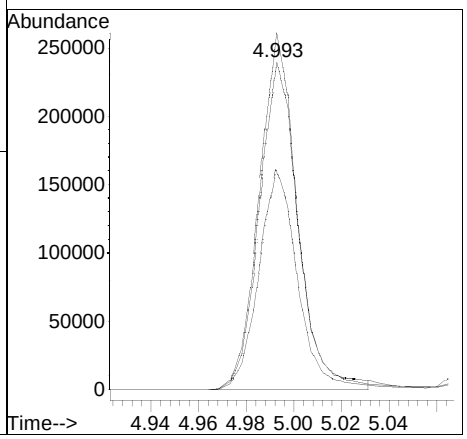


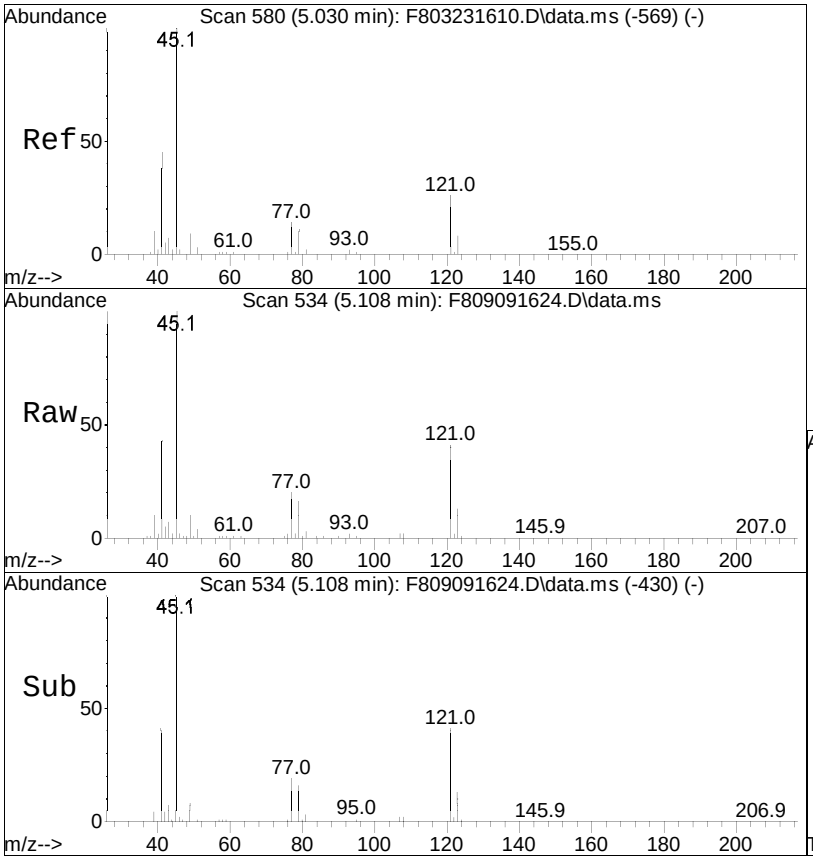


#14
Benzyl alcohol
Concen: 7.25 ug/mL
RT: 4.993 min Scan# 510
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:108 Resp: 271598

Ion	Ratio	Lower	Upper
108	100		
79	106.0	84.5	126.7
77	66.8	52.9	79.3

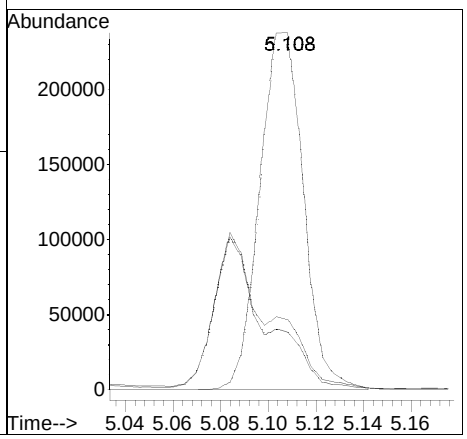


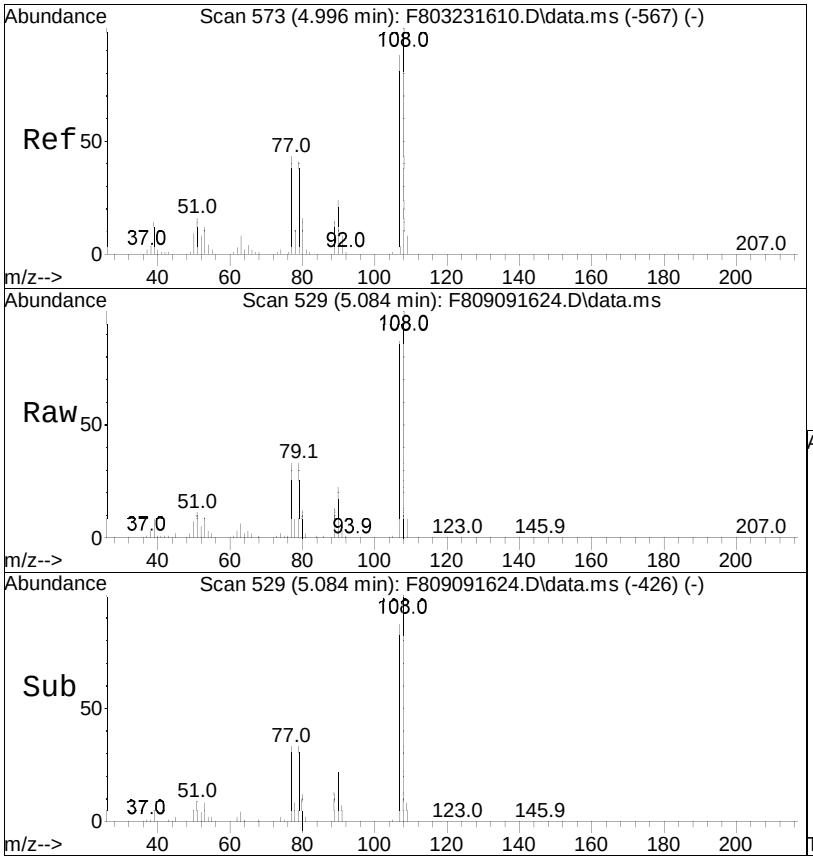


#15
bis(2-chloroisopropyl)ether
Concen: 6.23 ug/mL
RT: 5.108 min Scan# 534
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion: 45 Resp: 301740

Ion	Ratio	Lower	Upper
45	100		
77	0.0	13.2	19.8#
79	0.0	10.9	16.3#

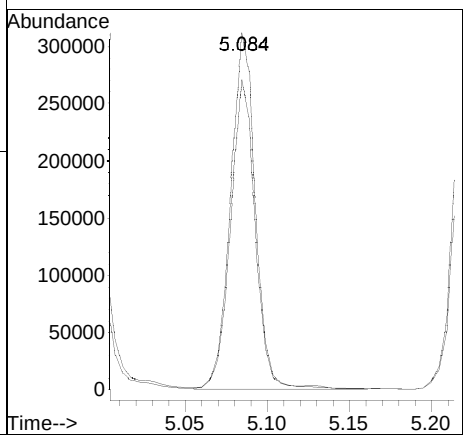


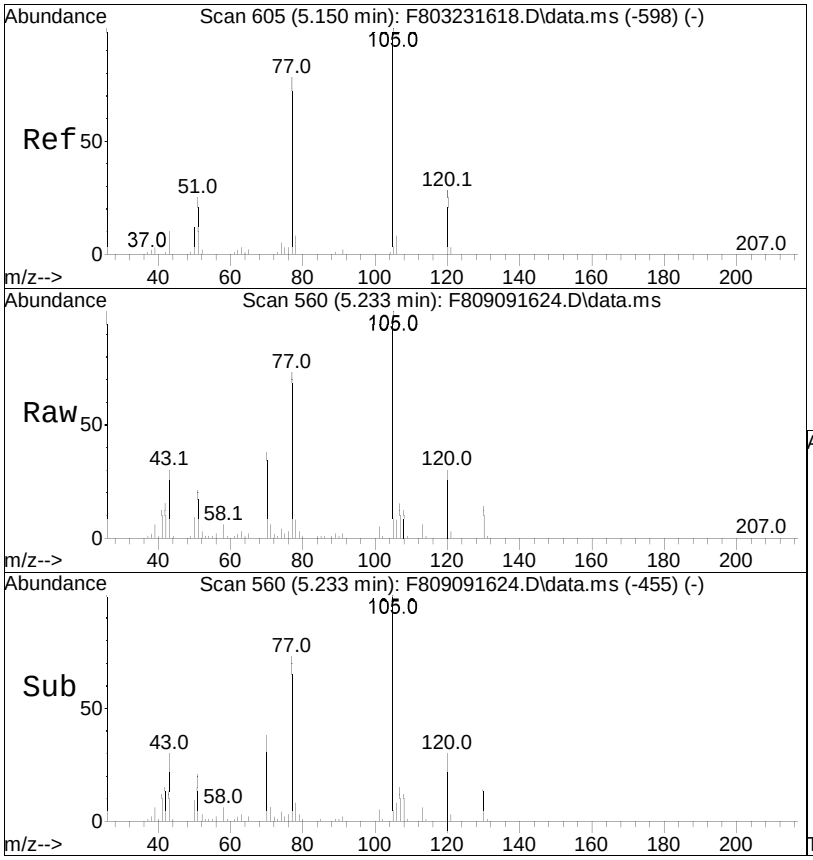


#16
2-Methylphenol
Concen: 6.64 ug/mL M4
RT: 5.084 min Scan# 529
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:108 Resp: 324995

Ion	Ratio	Lower	Upper
108	100		
107	85.3	68.1	102.1

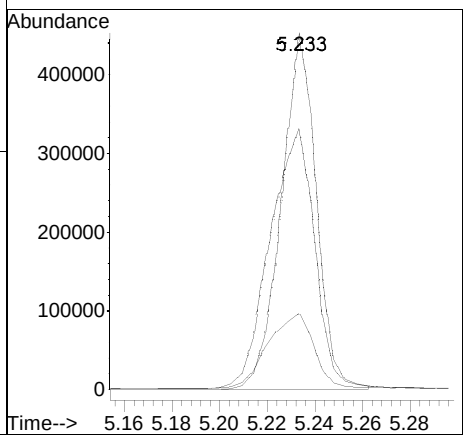


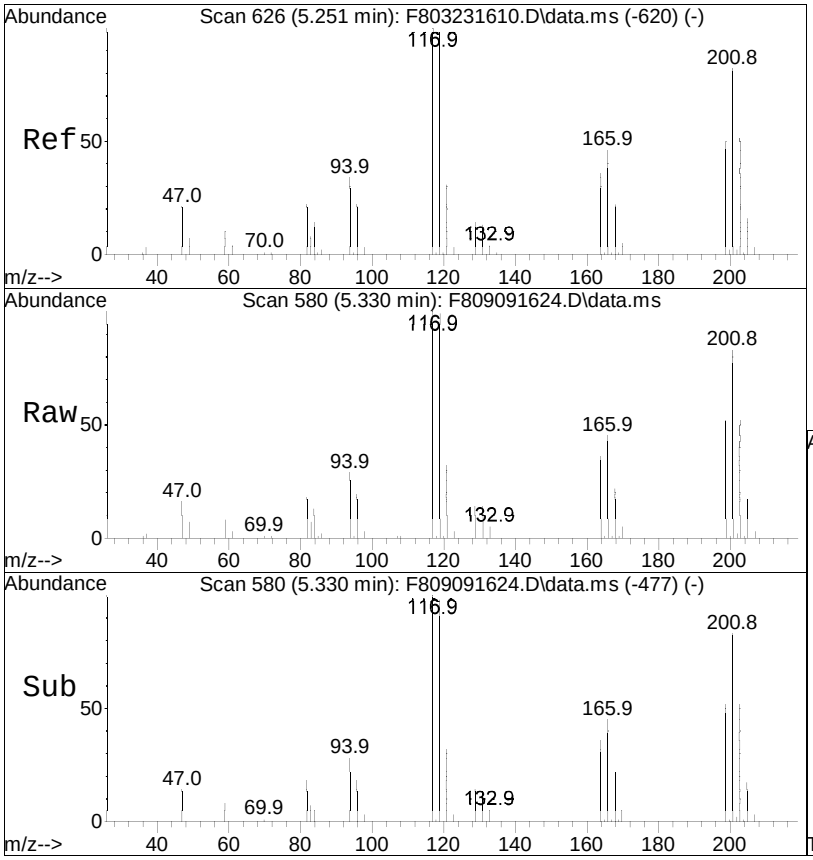


#17
Acetophenone
Concen: 6.14 ug/ml
RT: 5.233 min Scan# 560
Delta R.T. 0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:105 Resp: 458896

Ion	Ratio	Lower	Upper
105	100		
77	93.1	57.7	86.5#
51	27.9	17.1	25.7#

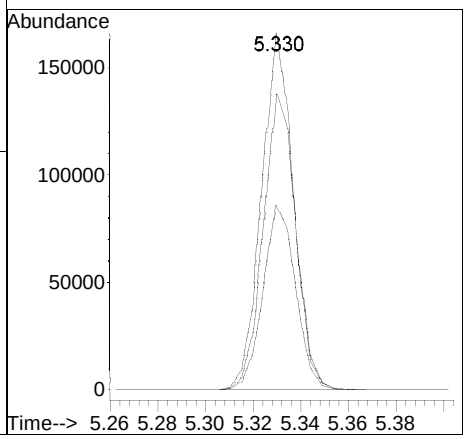


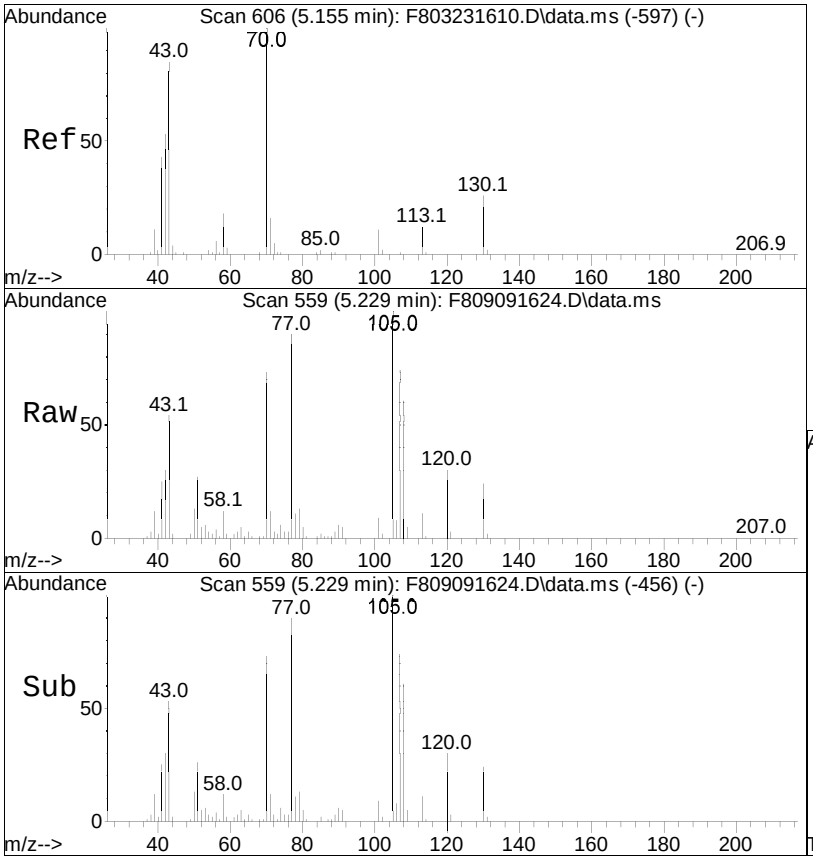


#18
Hexachloroethane
Concen: 6.06 ug/mL
RT: 5.330 min Scan# 580
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:117 Resp: 152854

Ion	Ratio	Lower	Upper
117	100		
201	85.1	62.8	94.2
199	53.2	39.0	58.4

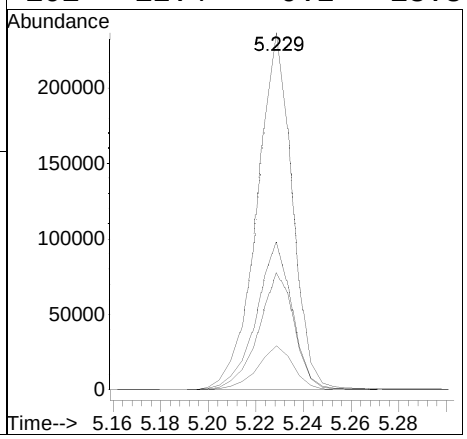


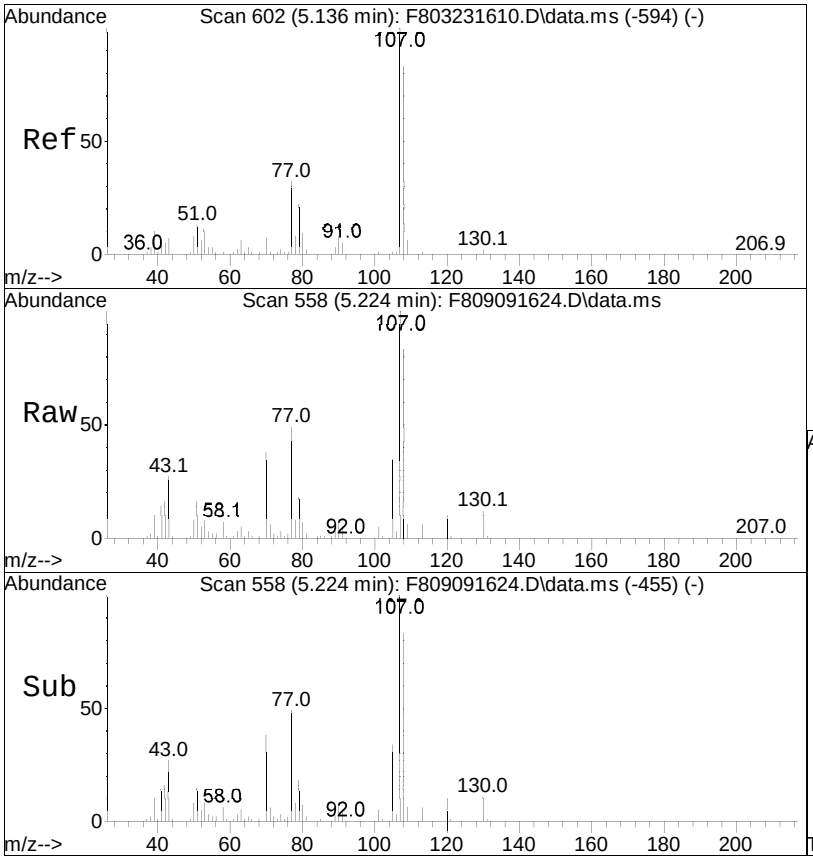


#19
N-Nitroso-di-n-propylamine
Concen: 7.13 ug/mL
RT: 5.229 min Scan# 559
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion: 70 Resp: 243658

Ion	Ratio	Lower	Upper
70	100		
42	41.7	37.1	55.7
130	33.4	24.0	36.0
101	12.4	9.2	13.8

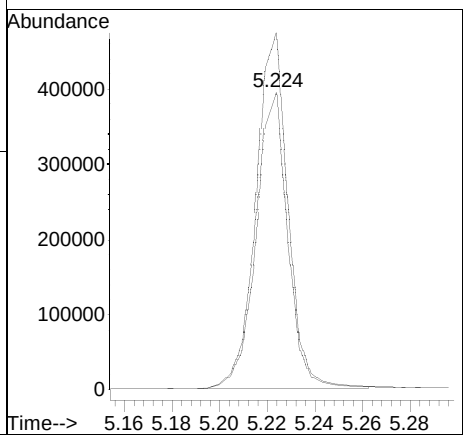


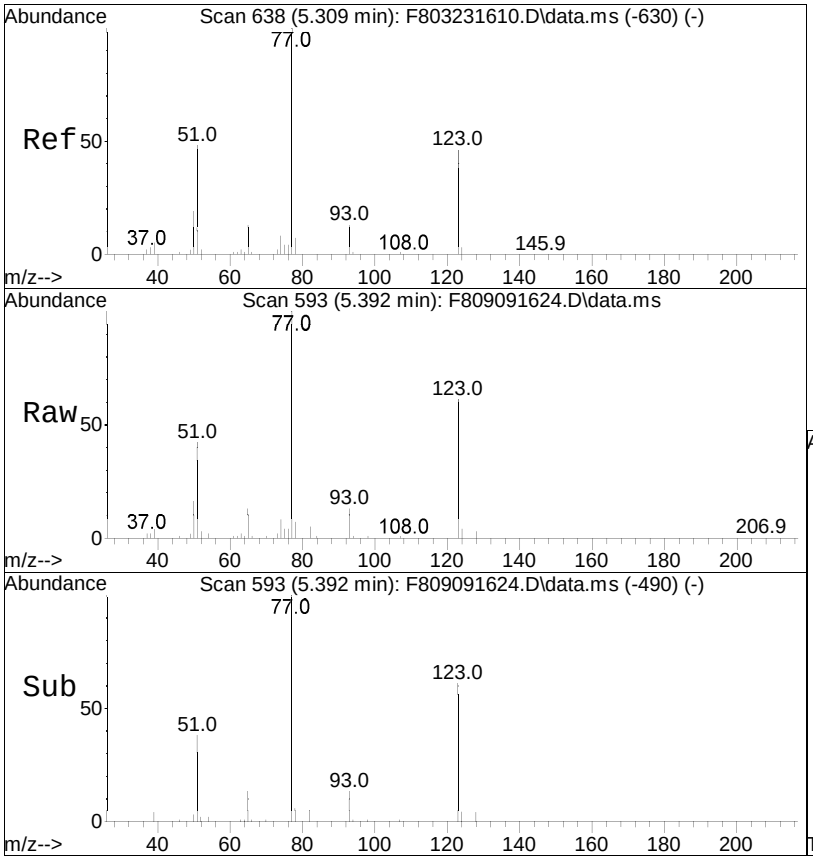


#20
4-Methylphenol
Concen: 6.93 ug/mL
RT: 5.224 min Scan# 558
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:108 Resp: 366183

Ion	Ratio	Lower	Upper
108	100		
107	121.1	94.6	142.0

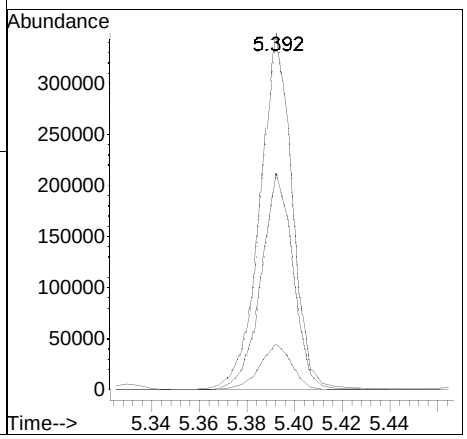


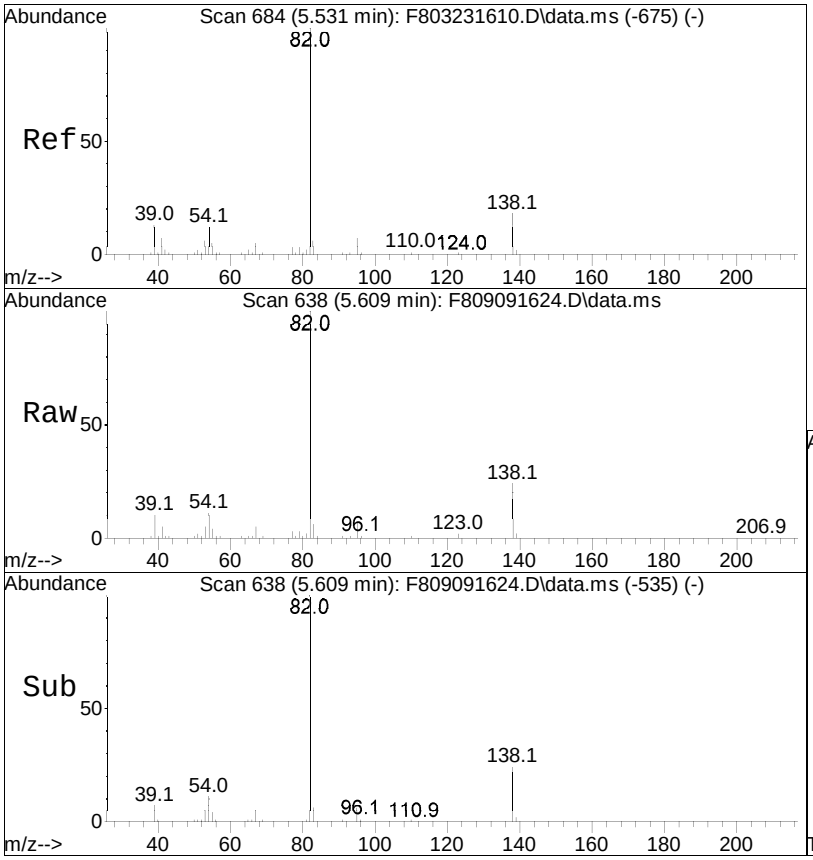


#23
Nitrobenzene
Concen: 6.52 ug/mL
RT: 5.392 min Scan# 593
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion: 77 Resp: 322935

Ion	Ratio	Lower	Upper
77	100		
123	61.2	45.4	68.2
65	13.2	10.2	15.4

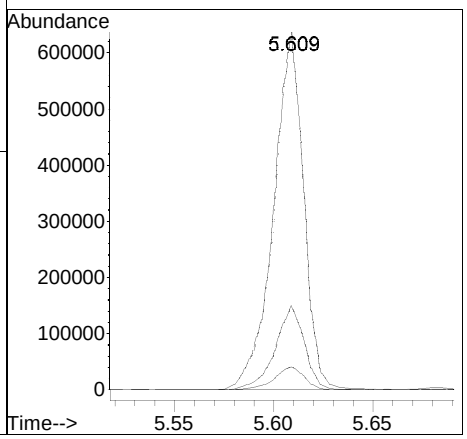


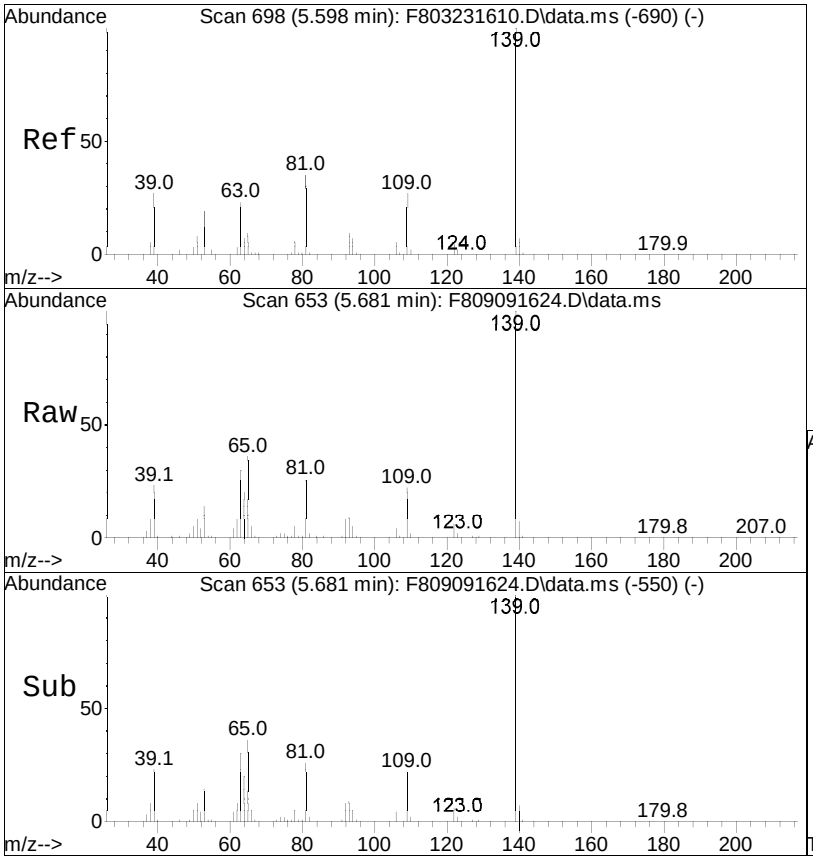


#24
Isophorone
Concen: 8.29 ug/mL
RT: 5.609 min Scan# 638
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion: 82 Resp: 660066

Ion	Ratio	Lower	Upper
82	100		
138	23.0	17.0	25.4
95	6.5	4.9	7.3

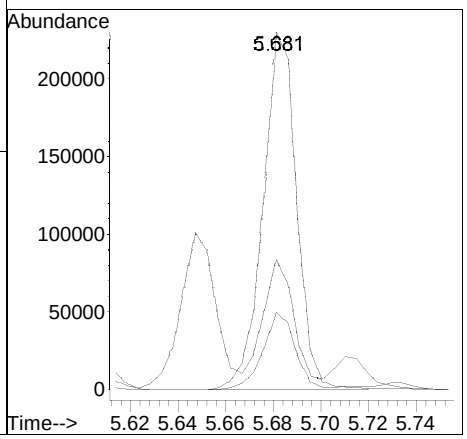


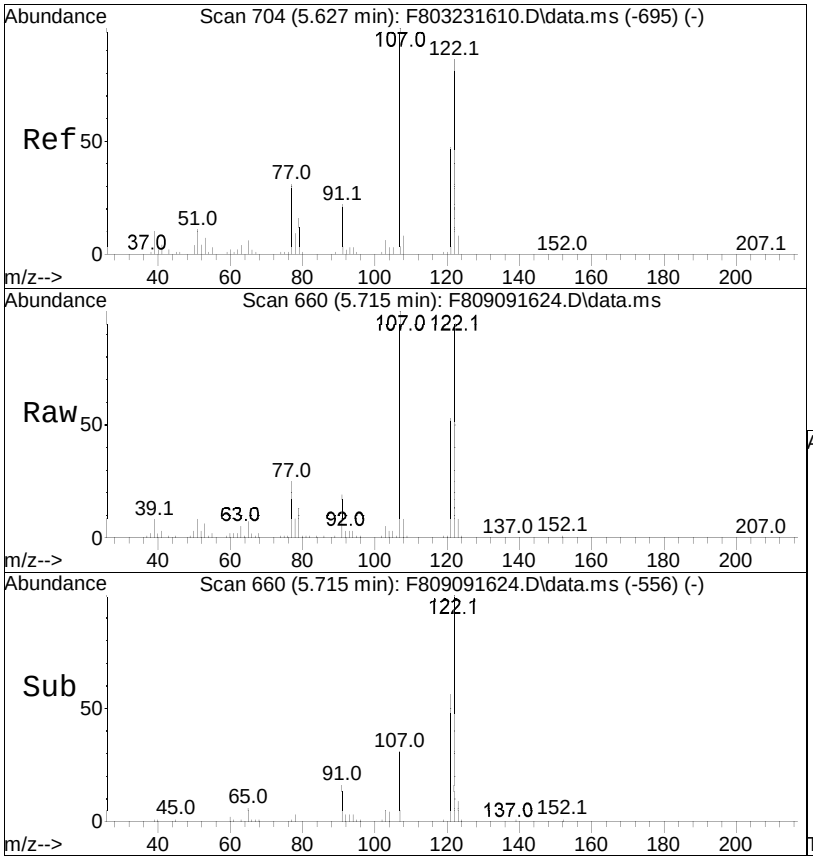


#25
2-Nitrophenol
Concen: 6.92 ug/mL
RT: 5.681 min Scan# 653
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:139 Resp: 224009

Ion	Ratio	Lower	Upper
139	100		
65	45.7	28.4	42.6#
109	21.1	16.3	24.5

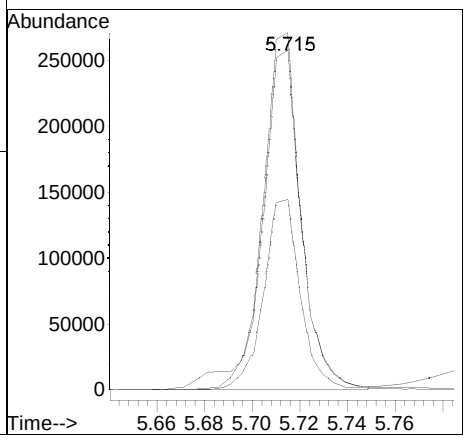


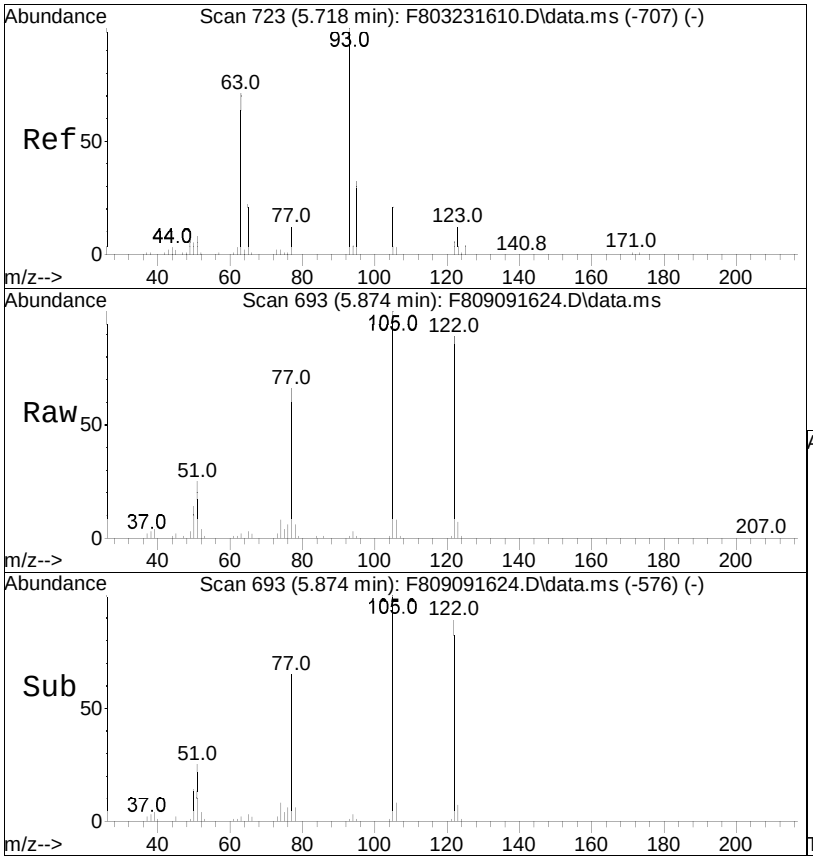


#26
2,4-Dimethylphenol
Concen: 5.74 ug/mL
RT: 5.715 min Scan# 660
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:107 Resp: 295255

Ion	Ratio	Lower	Upper
107	100		
122	94.6	78.4	117.6
121	52.9	43.0	64.6

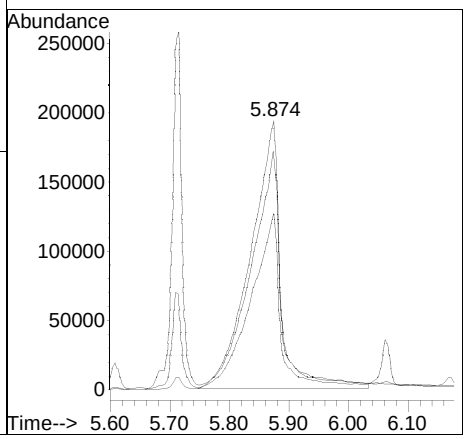


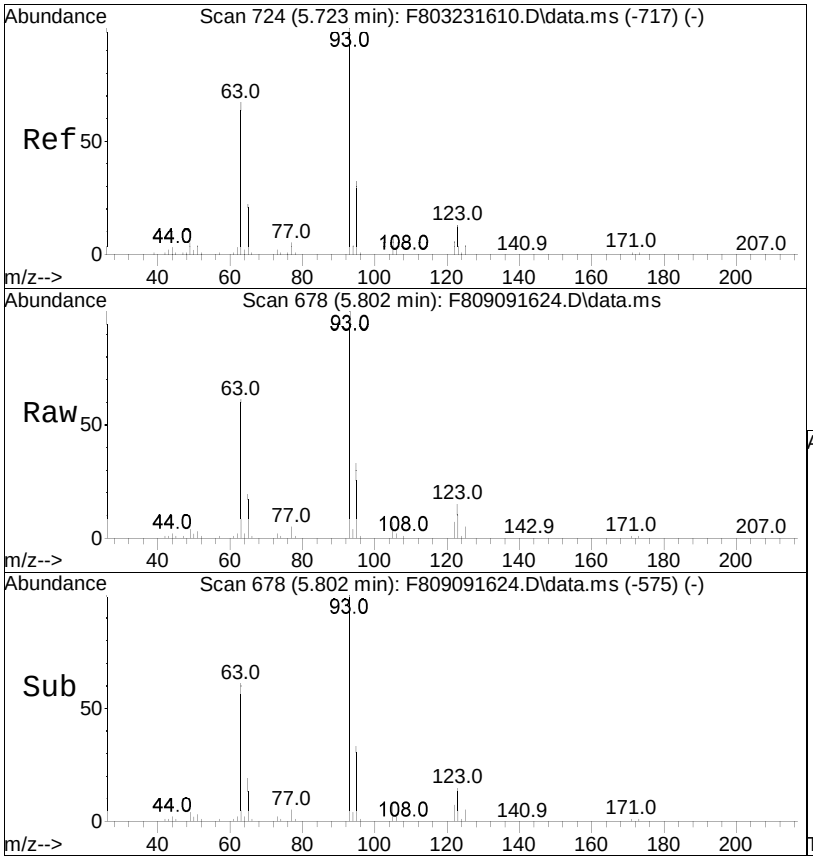


#27
Benzoic acid
Concen: 28.35 ug/mL
RT: 5.874 min Scan# 693
Delta R.T. 0.063 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:105 Resp: 696454

Ion	Ratio	Lower	Upper
105	100		
122	81.9	70.9	106.3
77	62.8	53.4	80.0

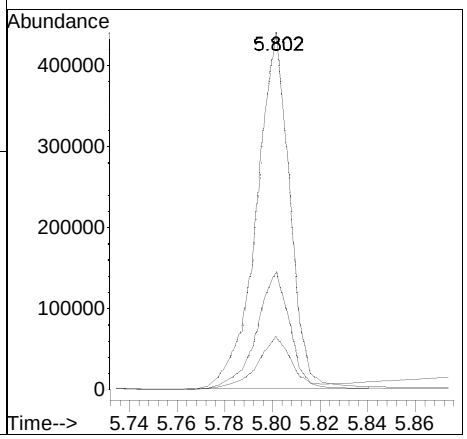


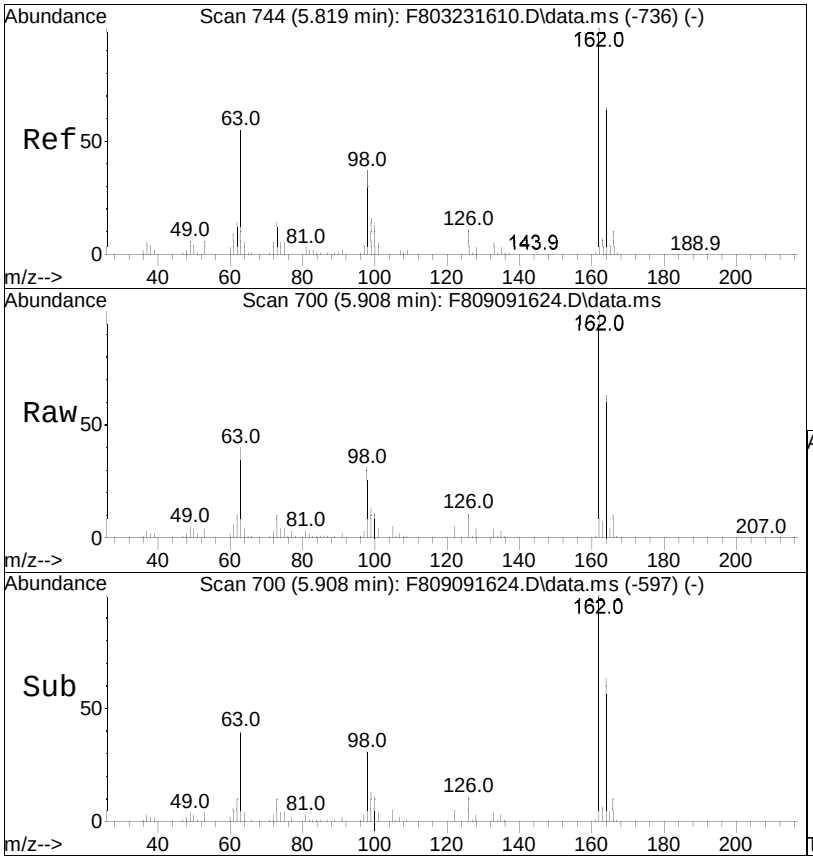


#28
bis(2-Chloroethoxy)methane
Concen: 7.39 ug/mL
RT: 5.802 min Scan# 678
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion: 93 Resp: 426251

Ion	Ratio	Lower	Upper
93	100		
95	33.6	26.7	40.1
123	16.2	11.9	17.9

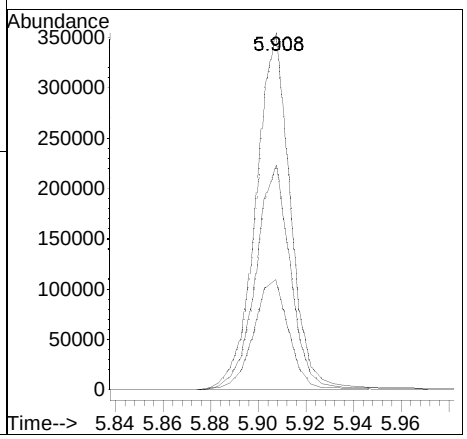


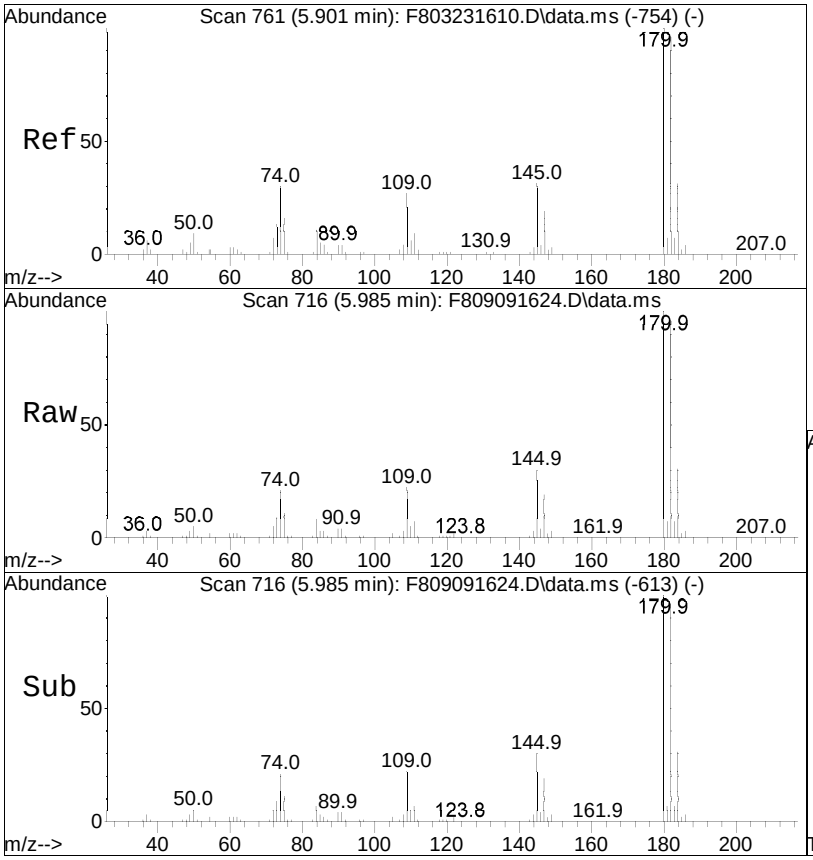


#29
2,4-Dichlorophenol
Concen: 7.54 ug/mL
RT: 5.908 min Scan# 700
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:162 Resp: 354838

Ion	Ratio	Lower	Upper
162	100		
164	64.0	50.8	76.2
98	32.0	26.3	39.5

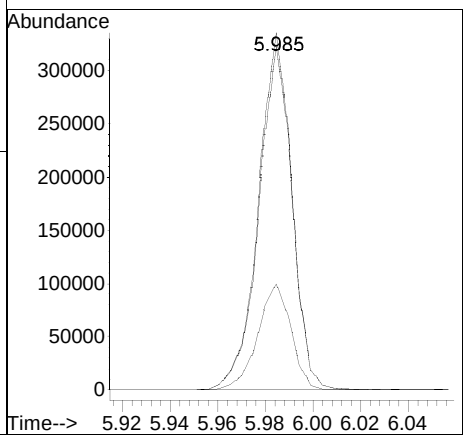


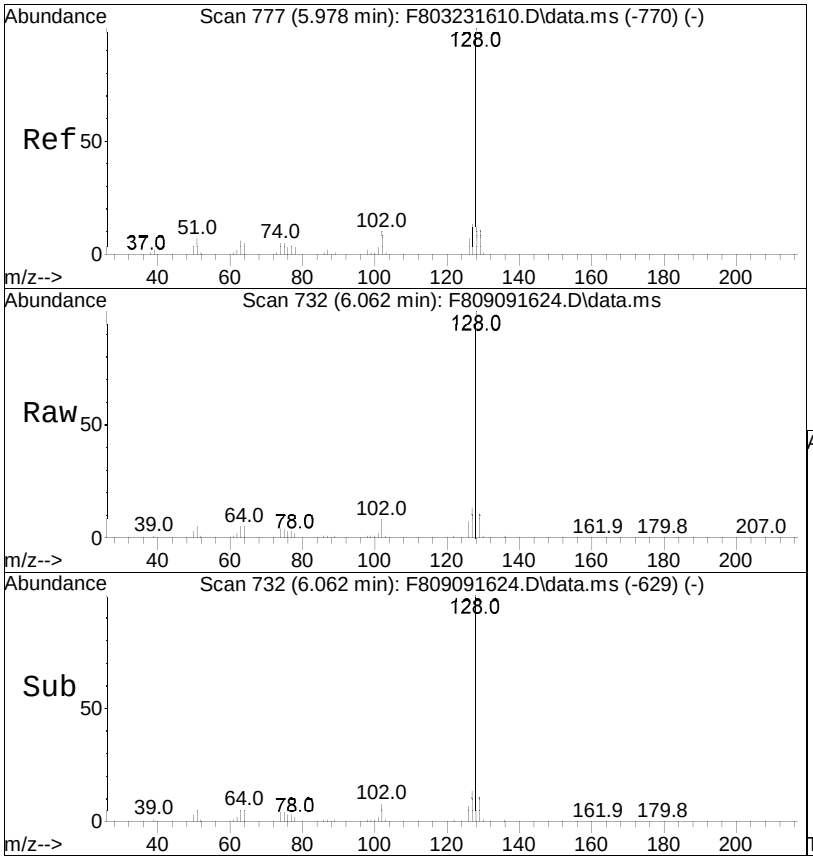


#30
1,2,4-Trichlorobenzene
Concen: 6.40 ug/mL
RT: 5.985 min Scan# 716
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:180 Resp: 326929

Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.2	114.4
145	29.8	23.6	35.4

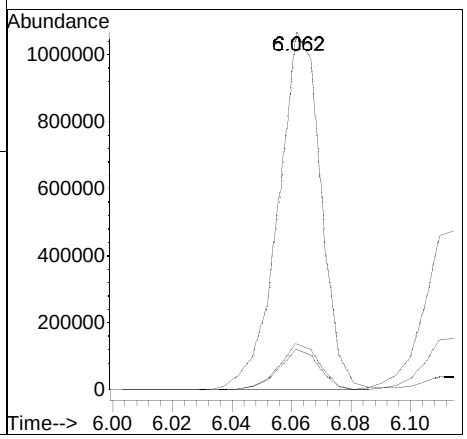


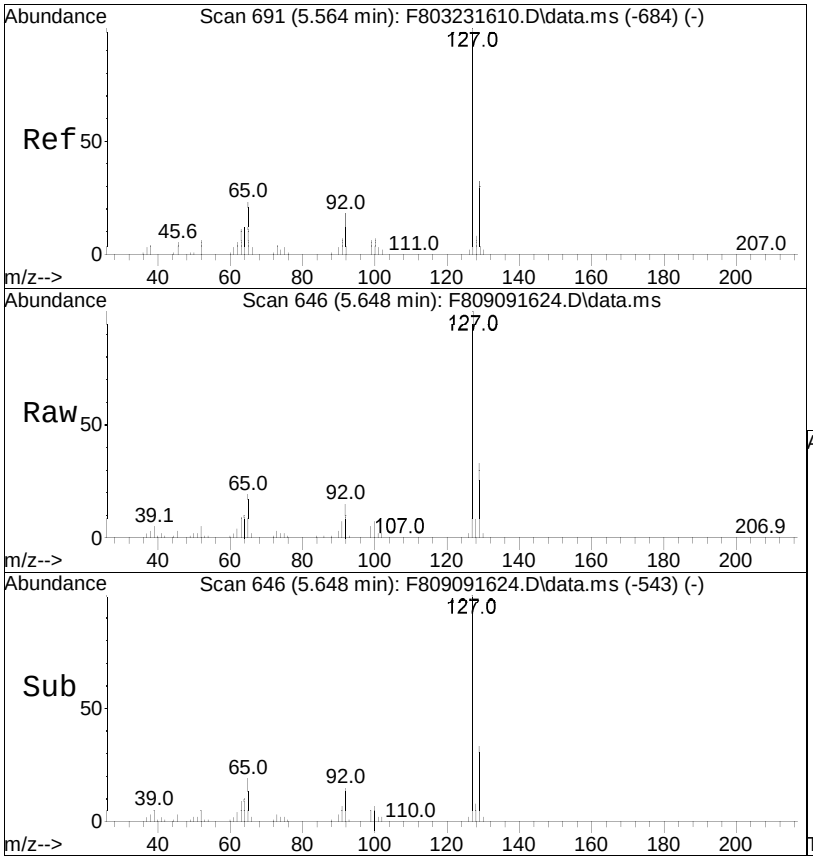


#31
Naphthalene
Concen: 6.47 ug/mL
RT: 6.062 min Scan# 732
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:128 Resp: 1060774

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.4
127	12.9	10.0	15.0

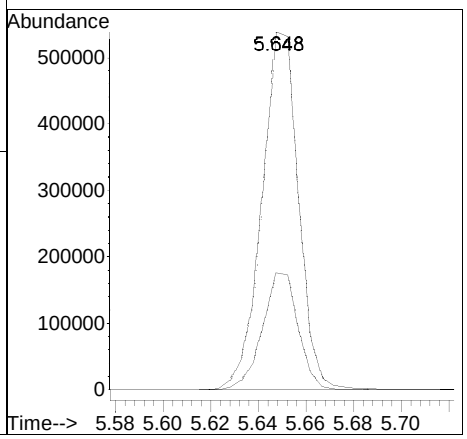


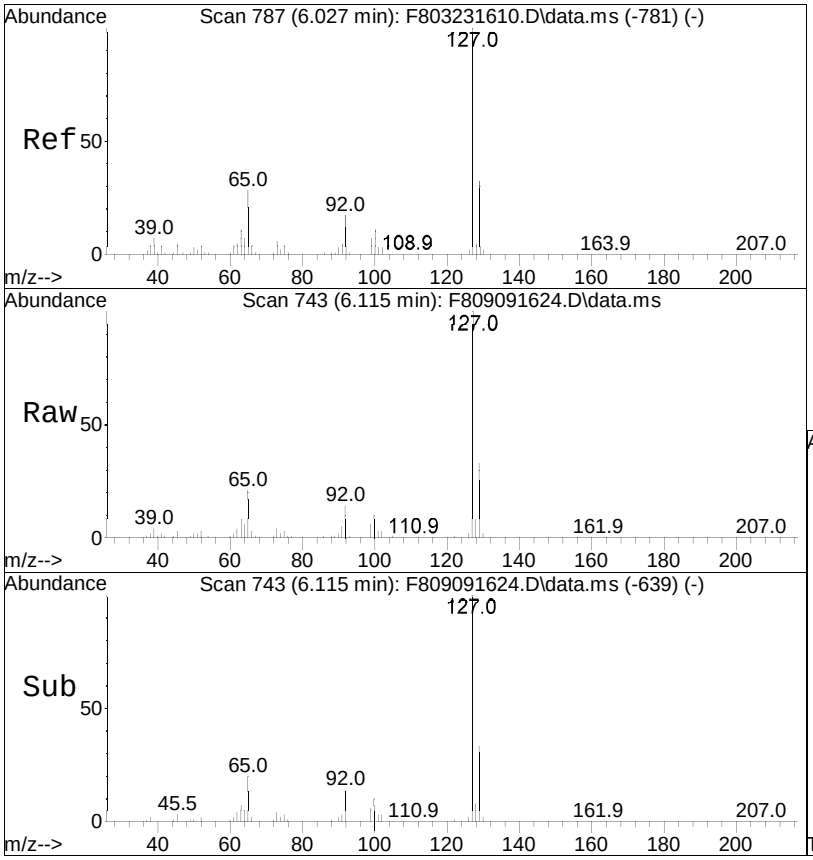


#32
2-Chloroaniline
Concen: 6.91 ug/ml
RT: 5.648 min Scan# 646
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:127 Resp: 571321

Ion	Ratio	Lower	Upper
127	100		
129	32.3	26.2	39.4

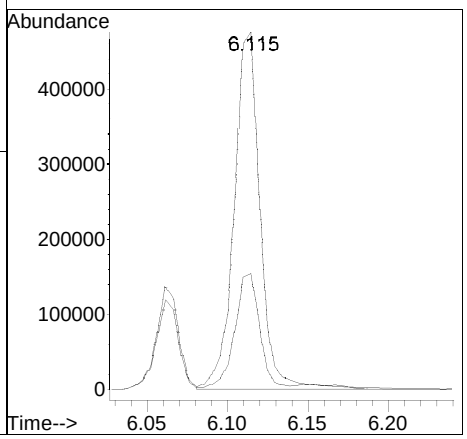


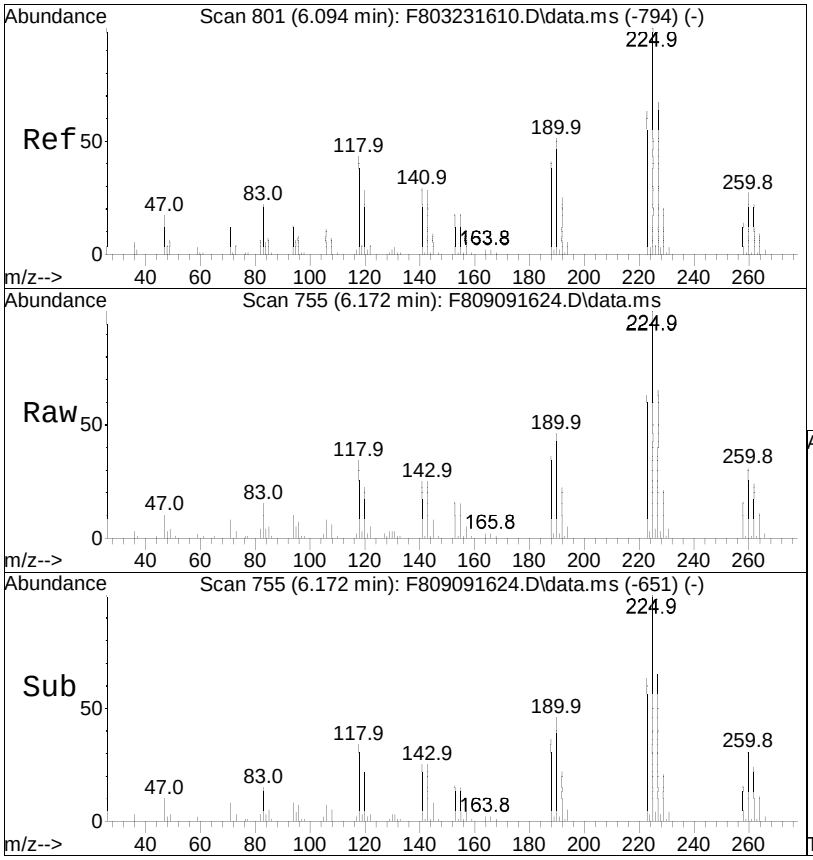


#33
4-Chloroaniline
Concen: 7.46 ug/mL M4
RT: 6.115 min Scan# 743
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:127 Resp: 526368

Ion	Ratio	Lower	Upper
127	100		
129	31.1	25.8	38.6

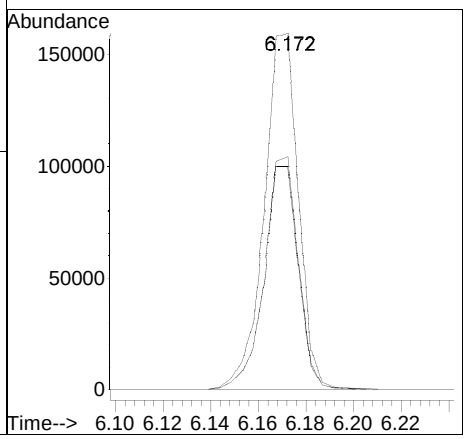


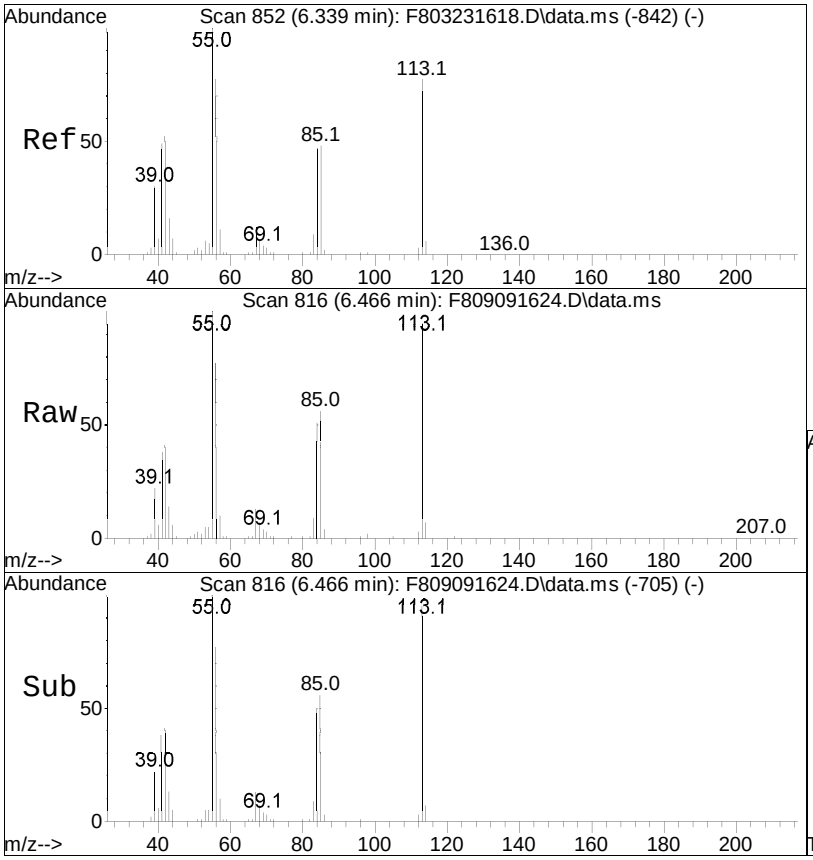


#34
Hexachlorobutadiene
Concen: 6.11 ug/mL
RT: 6.172 min Scan# 755
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:225 Resp: 158657

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.8	76.2
227	64.6	51.1	76.7

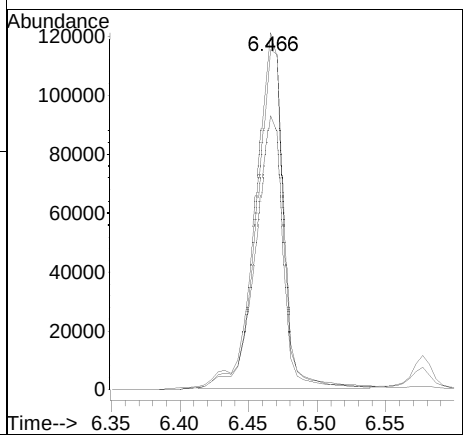


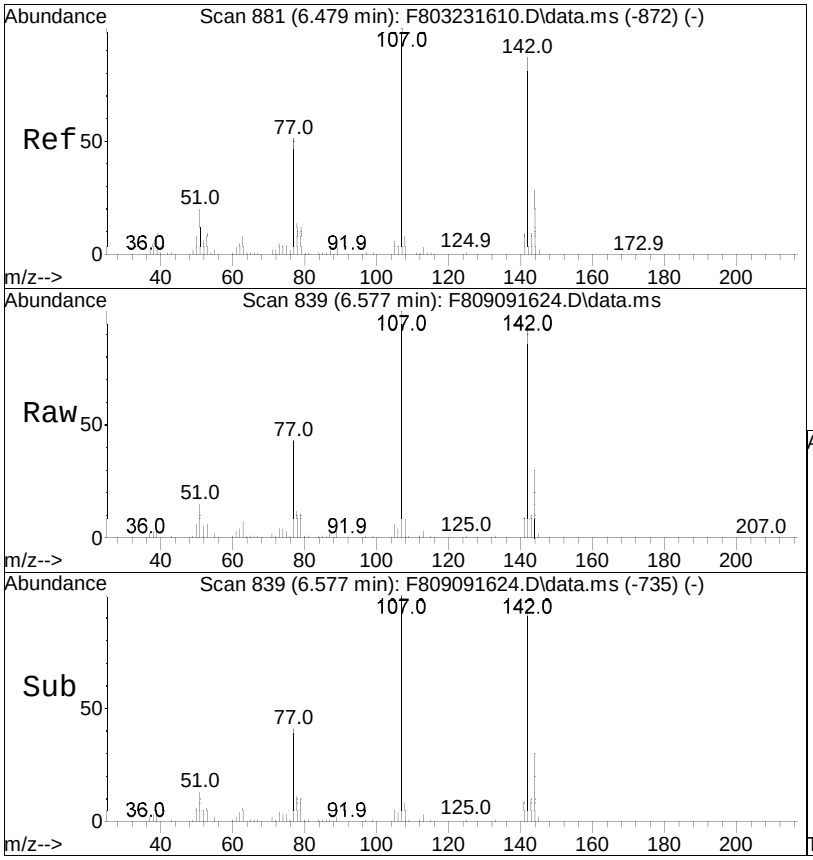


#35
Caprolactam
Concen: 10.52 ug/ml M4
RT: 6.466 min Scan# 816
Delta R.T. 0.034 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:113 Resp: 160385

Ion	Ratio	Lower	Upper
113	100		
55	94.3	82.6	123.8
56	72.6	63.0	94.6

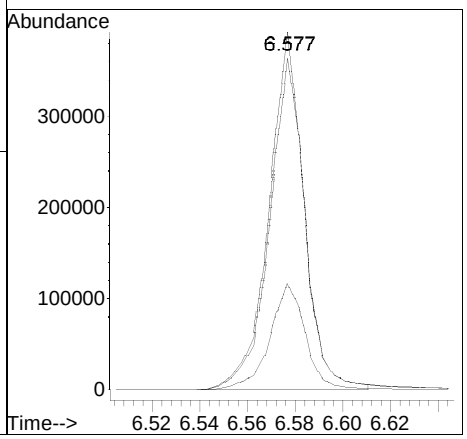


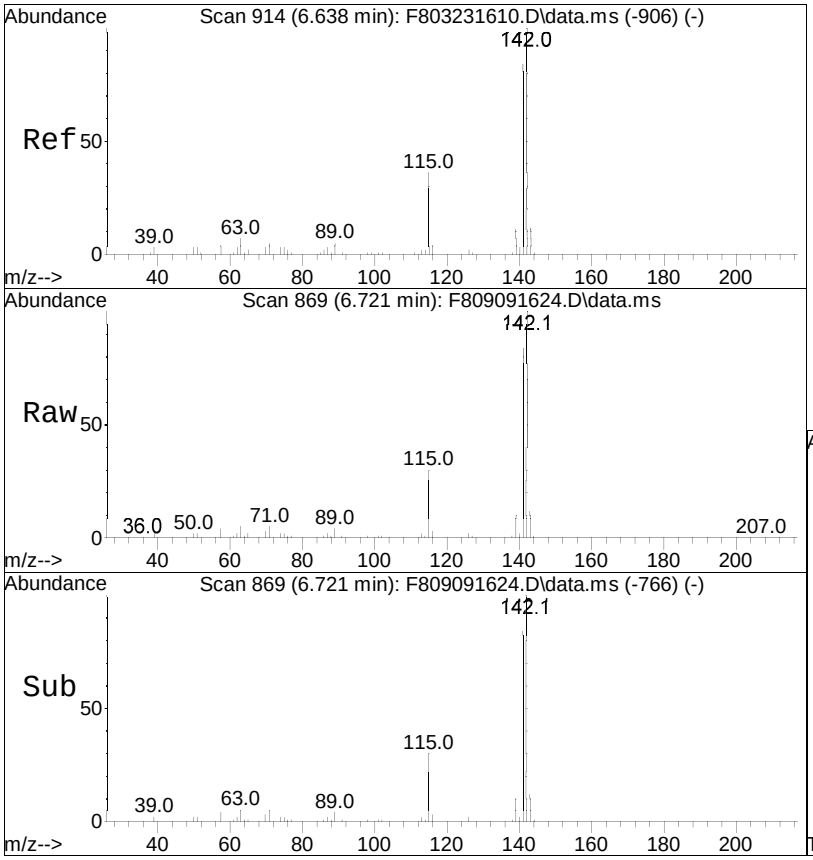


#36
4-Chloro-3-methylphenol
Concen: 8.75 ug/mL
RT: 6.577 min Scan# 839
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:107 Resp: 396886

Ion	Ratio	Lower	Upper
107	100		
144	30.3	24.3	36.5
142	94.2	74.4	111.6

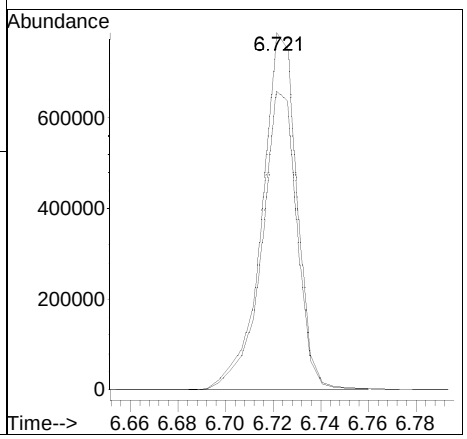


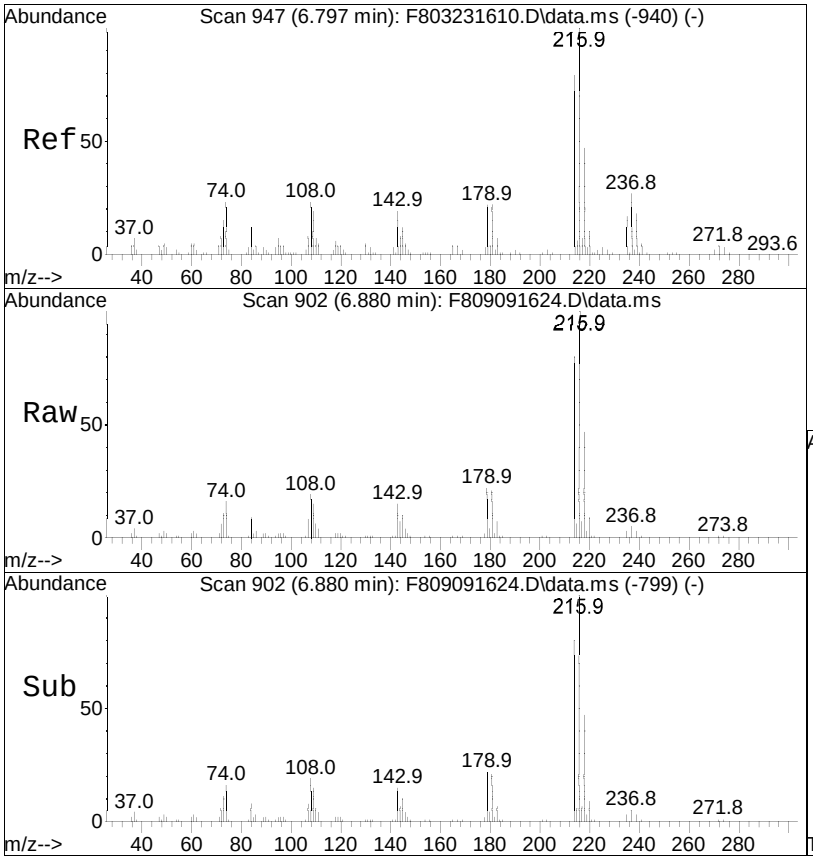


#37
2-Methylnaphthalene
Concen: 7.25 ug/mL
RT: 6.721 min Scan# 869
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:142 Resp: 806829

Ion	Ratio	Lower	Upper
142	100		
141	84.1	66.6	100.0

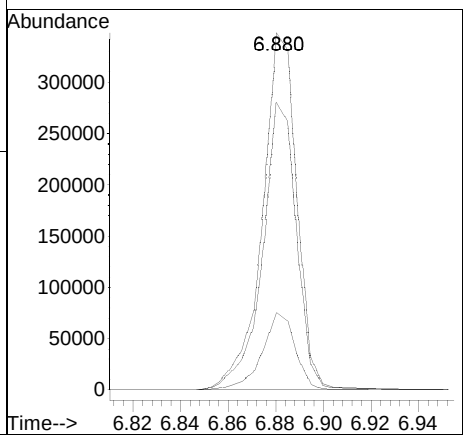


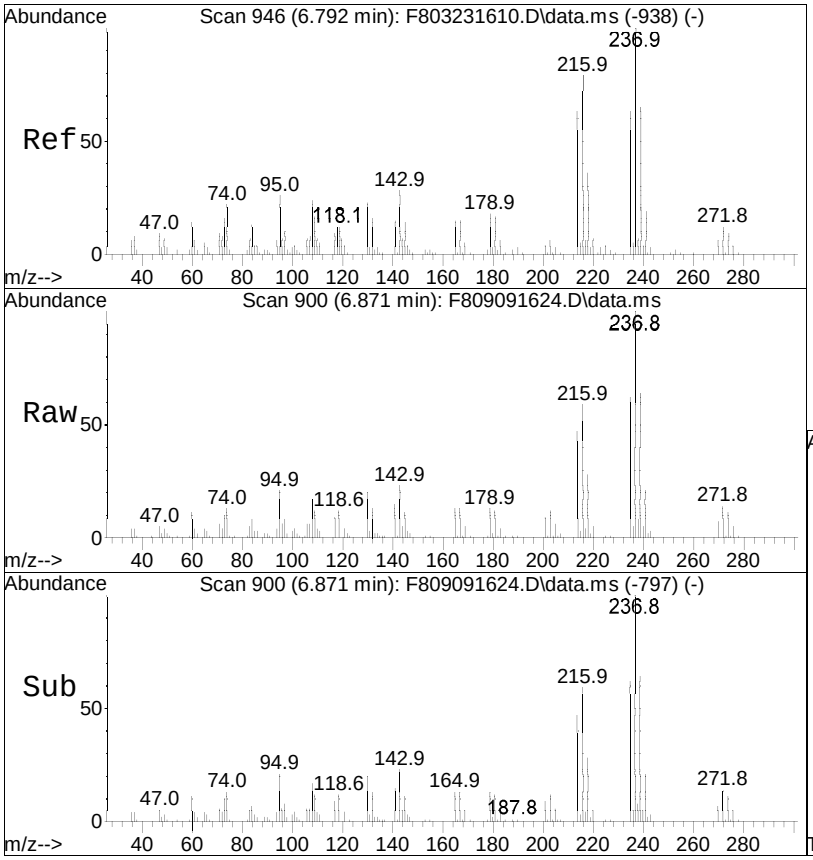


#39
1,2,4,5-Tetrachlorobenzene
Concen: 7.46 ug/mL
RT: 6.880 min Scan# 902
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:216 Resp: 351916

Ion	Ratio	Lower	Upper
216	100		
214	79.1	63.0	94.6
179	20.9	16.2	24.4

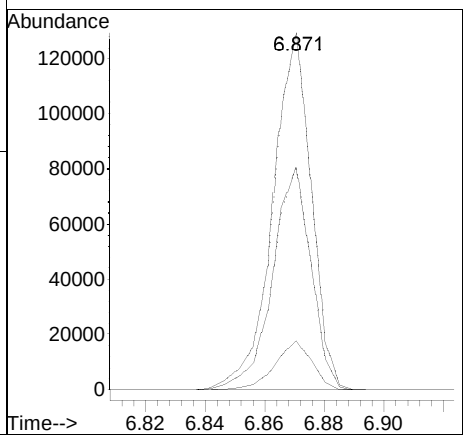


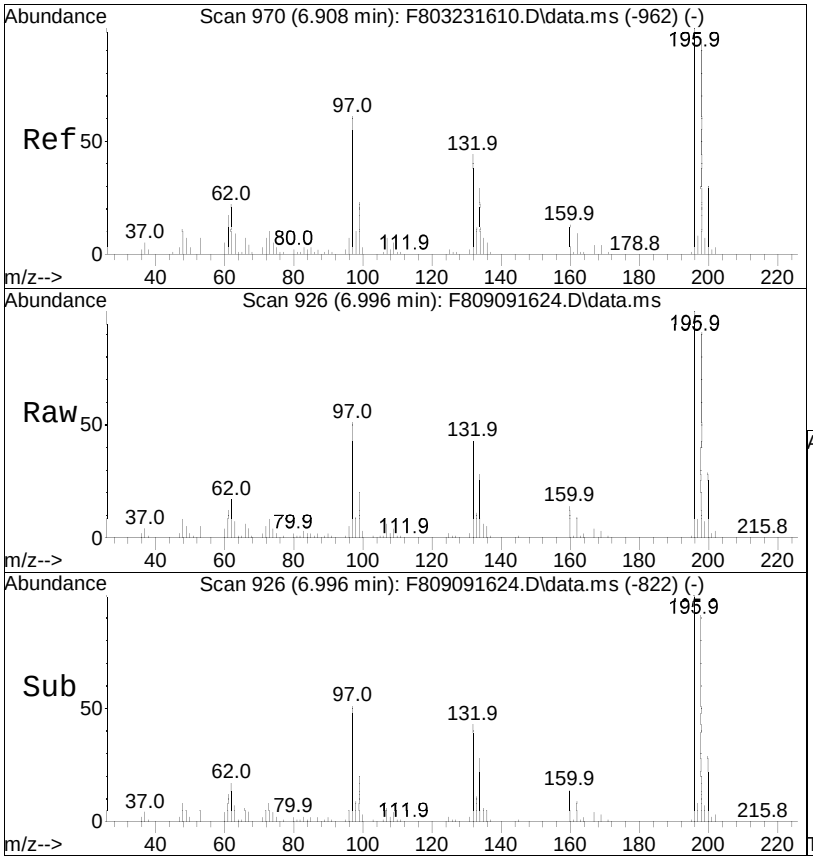


#40
Hexachlorocyclopentadiene
Concen: 5.68 ug/mL
RT: 6.871 min Scan# 900
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:237 Resp: 115898

Ion	Ratio	Lower	Upper
237	100		
235	62.6	53.3	79.9
272	13.4	10.9	16.3

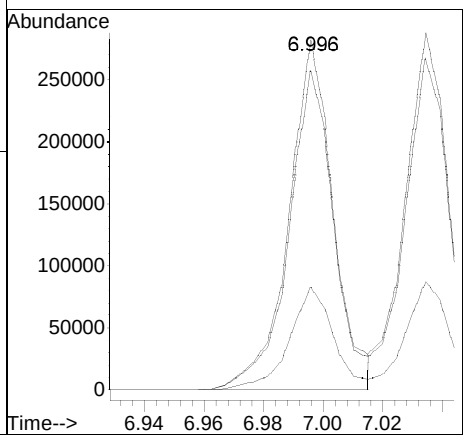


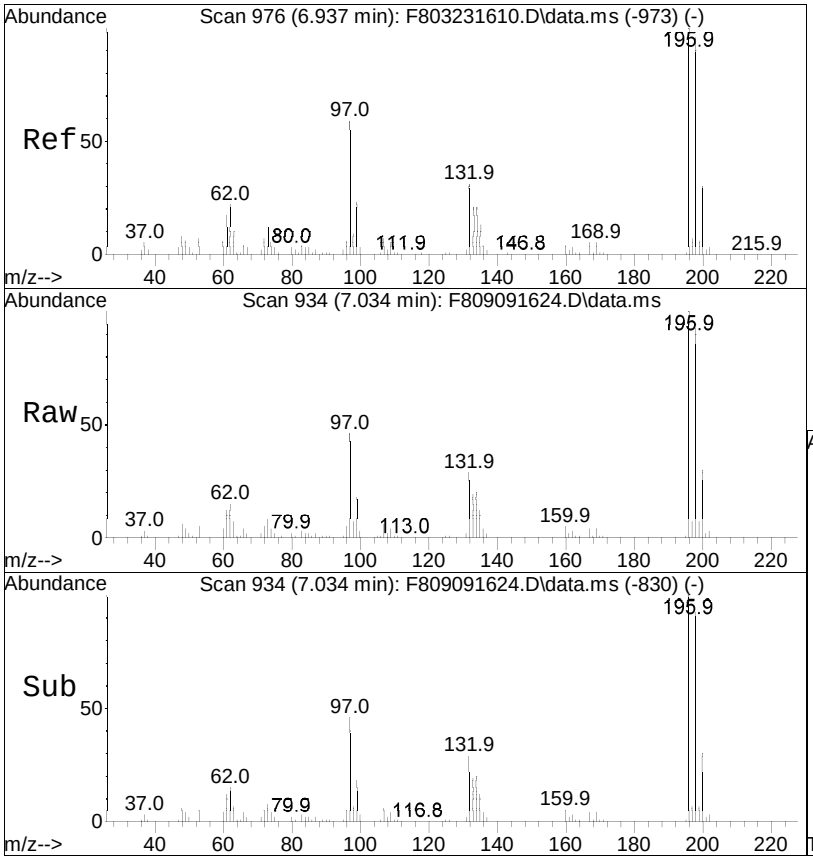


#41
2,4,6-Trichlorophenol
Concen: 8.63 ug/mL
RT: 6.996 min Scan# 926
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:196 Resp: 293220

Ion	Ratio	Lower	Upper
196	100		
198	92.6	73.6	110.4
200	29.4	23.5	35.3

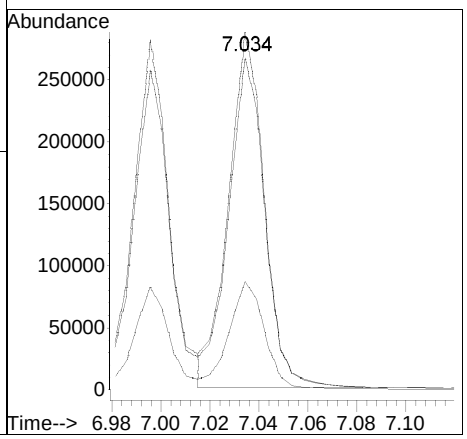


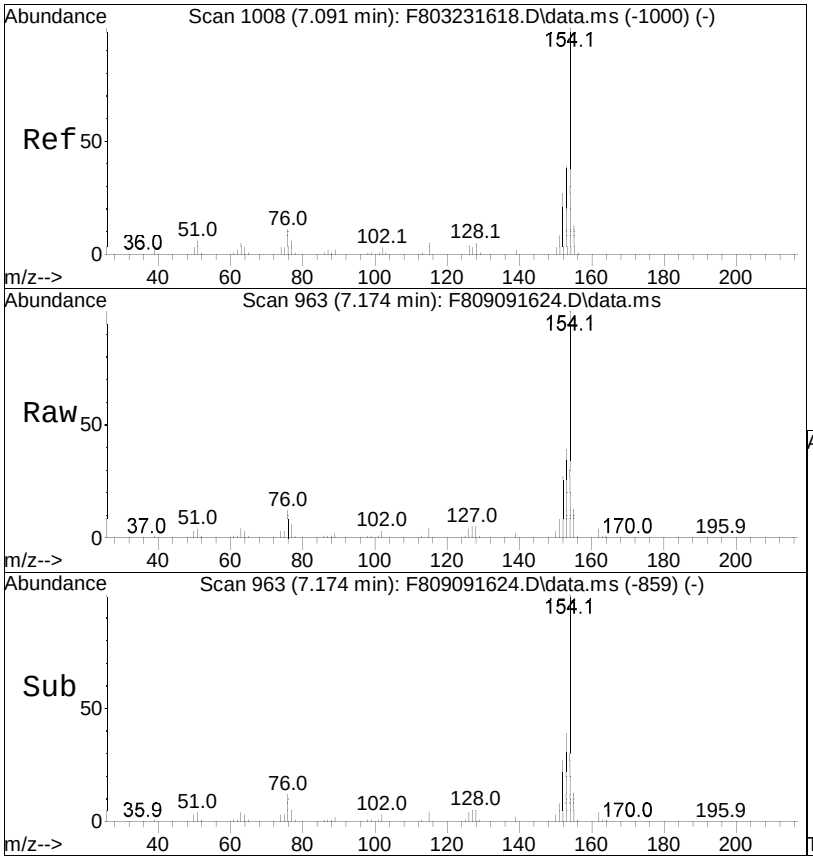


#42
2,4,5-Trichlorophenol
Concen: 9.59 ug/mL M6
RT: 7.034 min Scan# 934
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:196 Resp: 289582

Ion	Ratio	Lower	Upper
196	100		
198	94.2	73.2	109.8
200	30.6	23.9	35.9

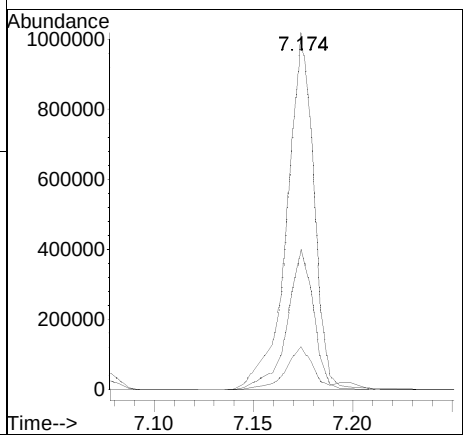


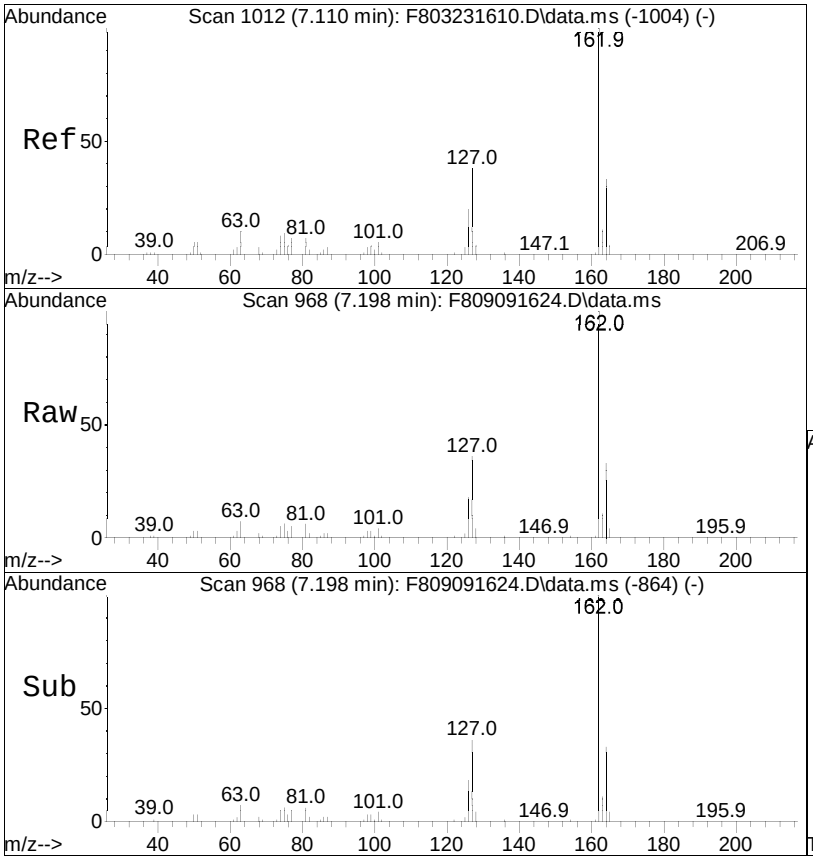


#44
Biphenyl
Concen: 7.38 ug/ml
RT: 7.174 min Scan# 963
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:154 Resp: 963223

Ion	Ratio	Lower	Upper
154	100		
153	39.0	31.4	47.0
76	14.3	9.8	14.6

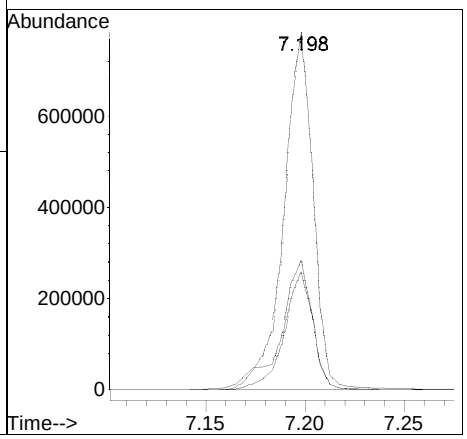


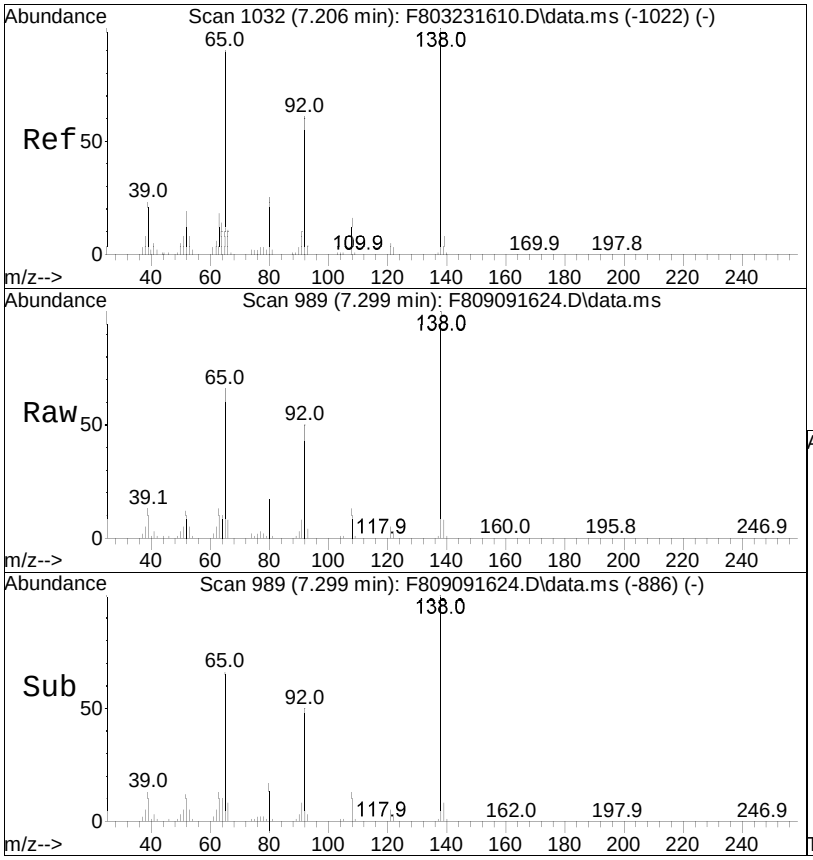


#45
2-Chloronaphthalene
Concen: 7.78 ug/mL
RT: 7.198 min Scan# 968
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:162 Resp: 795222

Ion	Ratio	Lower	Upper
162	100		
164	32.8	26.4	39.6
127	39.3	30.2	45.2

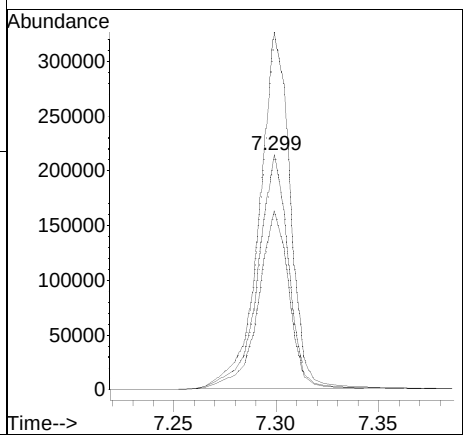


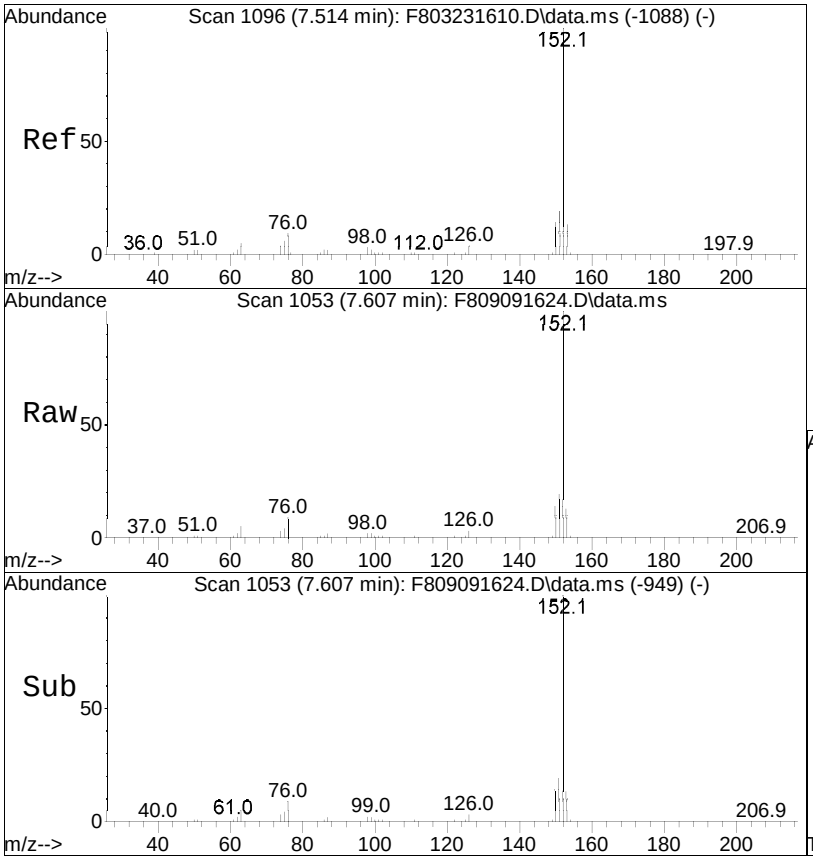


#46
2-Nitroaniline
Concen: 9.36 ug/mL M4
RT: 7.299 min Scan# 989
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion: 65 Resp: 221105

Ion	Ratio	Lower	Upper
65	100		
92	74.9	61.0	91.4
138	148.9	122.0	183.0

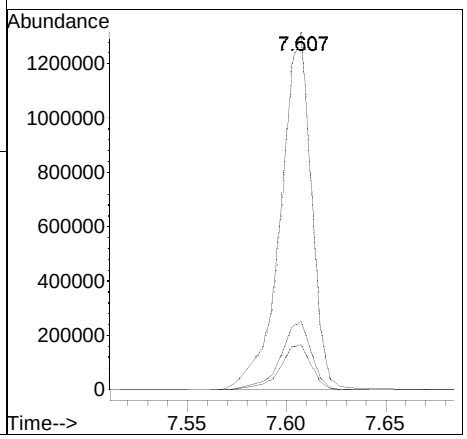


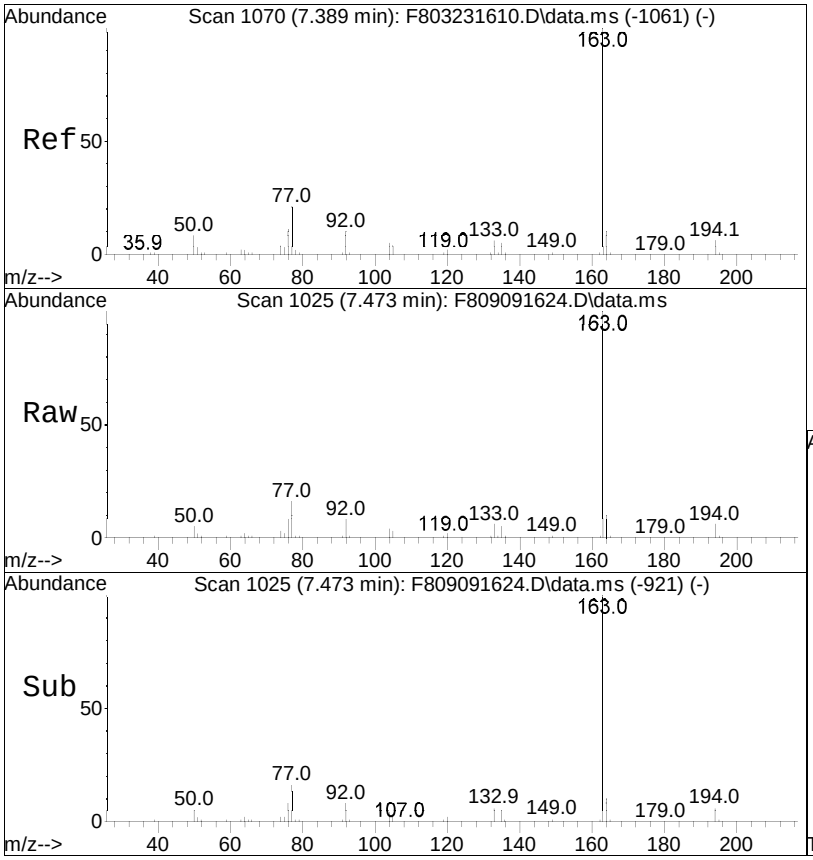


#47
Acenaphthylene
Concen: 8.36 ug/mL
RT: 7.607 min Scan# 1053
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:152 Resp: 1413129

Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.8	23.8
153	13.0	10.6	16.0

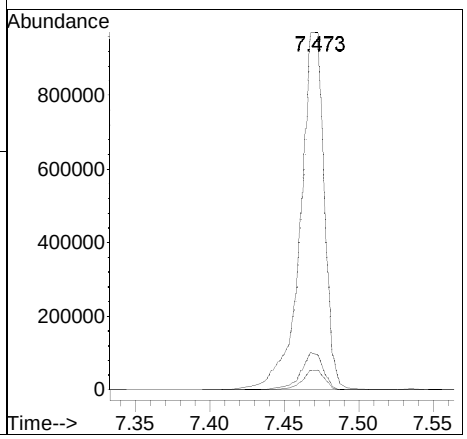


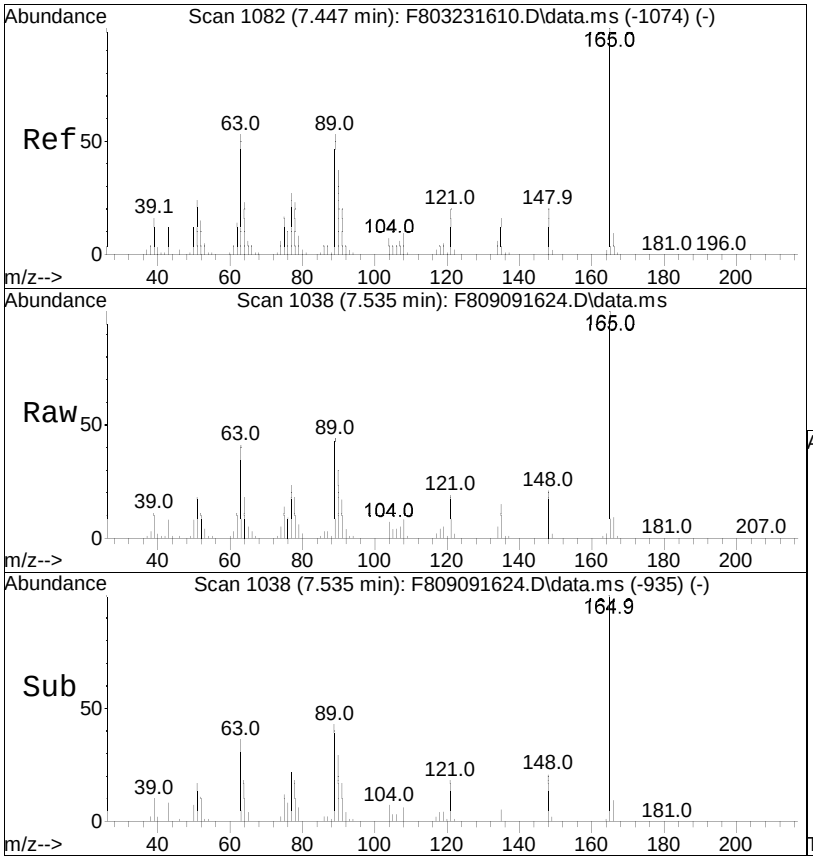


#48
Dimethylphthalate
Concen: 9.78 ug/mL
RT: 7.473 min Scan# 1025
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:163 Resp: 1074812

Ion	Ratio	Lower	Upper
163	100		
194	5.5	4.4	6.6
164	10.2	8.3	12.5

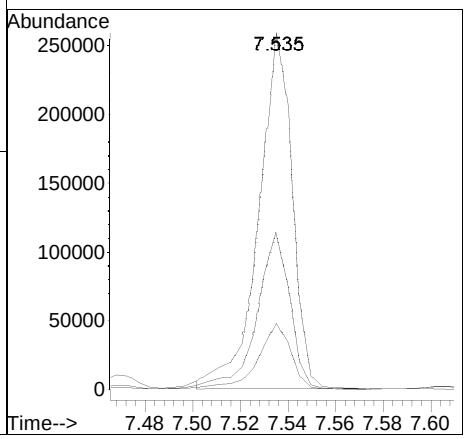


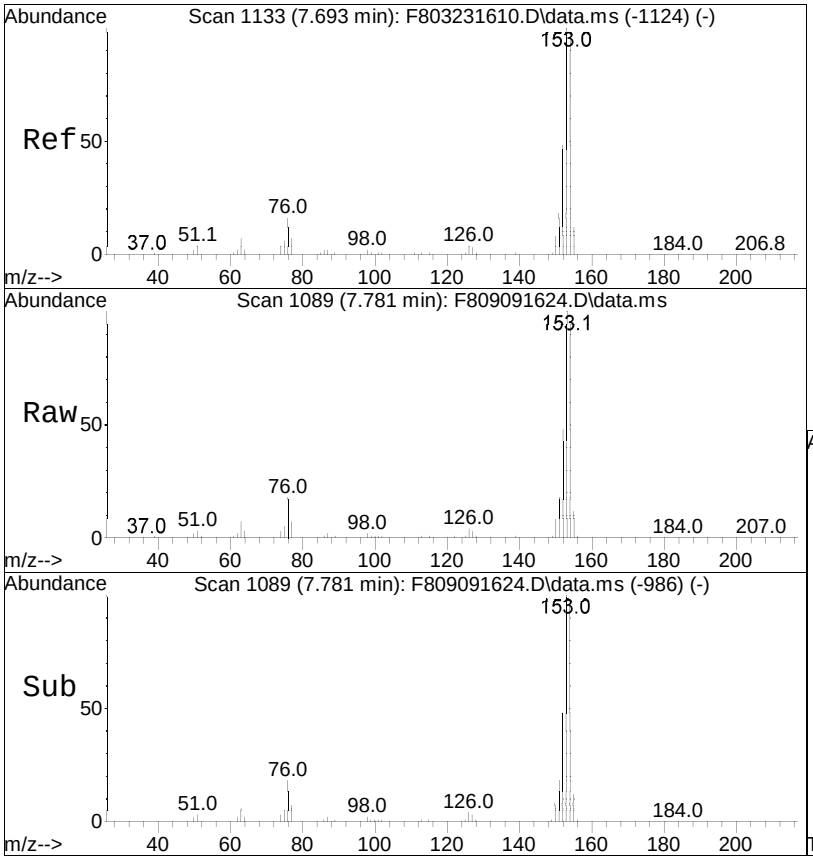


#49
2,6-Dinitrotoluene
Concen: 9.88 ug/mL
RT: 7.535 min Scan# 1038
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:165 Resp: 252204

Ion	Ratio	Lower	Upper
165	100		
89	43.6	40.5	60.7
121	18.4	16.6	25.0

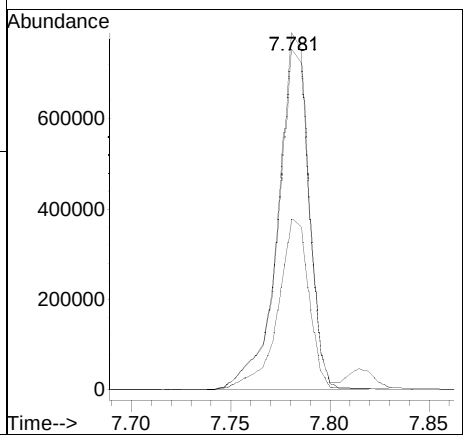


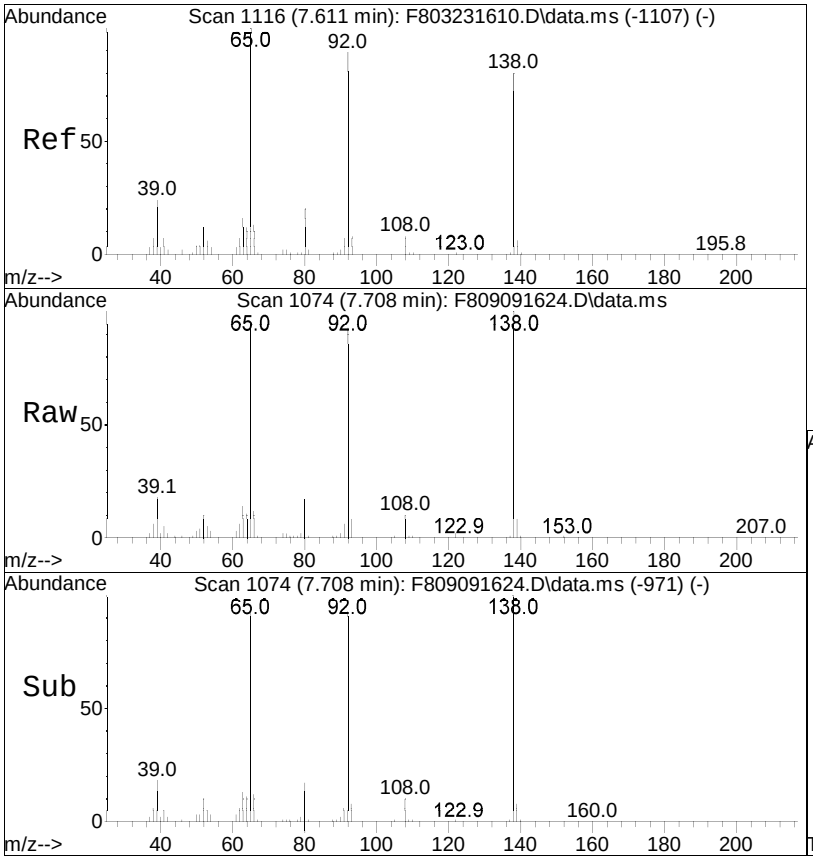


#50
Acenaphthene
Concen: 8.42 ug/mL
RT: 7.781 min Scan# 1089
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:153 Resp: 865791

Ion	Ratio	Lower	Upper
153	100		
154	95.9	75.4	113.0
152	47.5	39.3	58.9

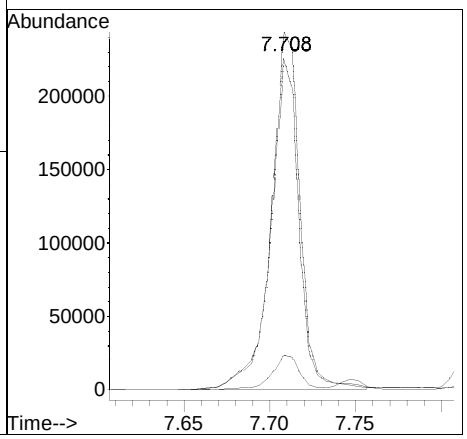


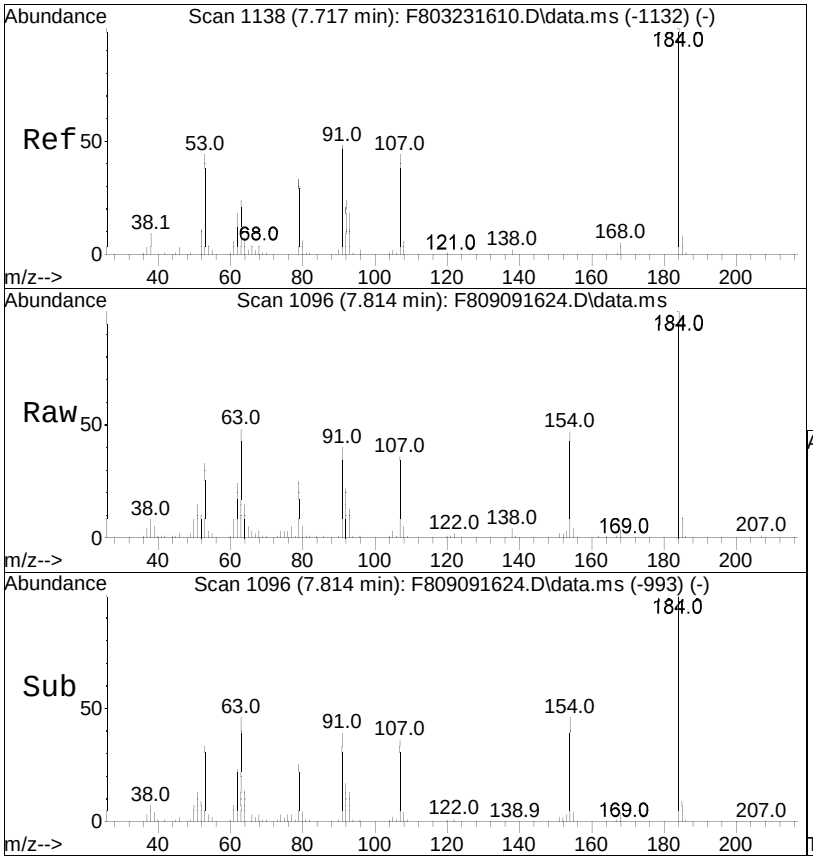


#51
3-Nitroaniline
Concen: 9.61 ug/mL M4
RT: 7.708 min Scan# 1074
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:138 Resp: 280787

Ion	Ratio	Lower	Upper
138	100		
108	9.9	8.9	13.3
92	83.0	72.2	108.4

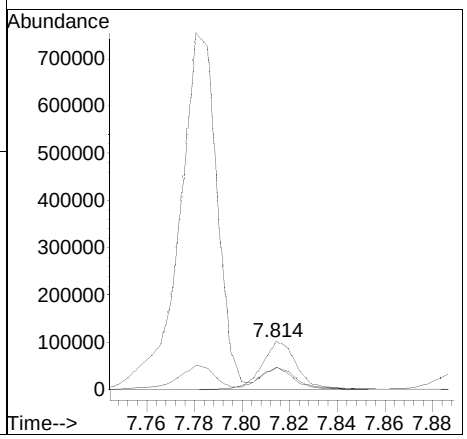


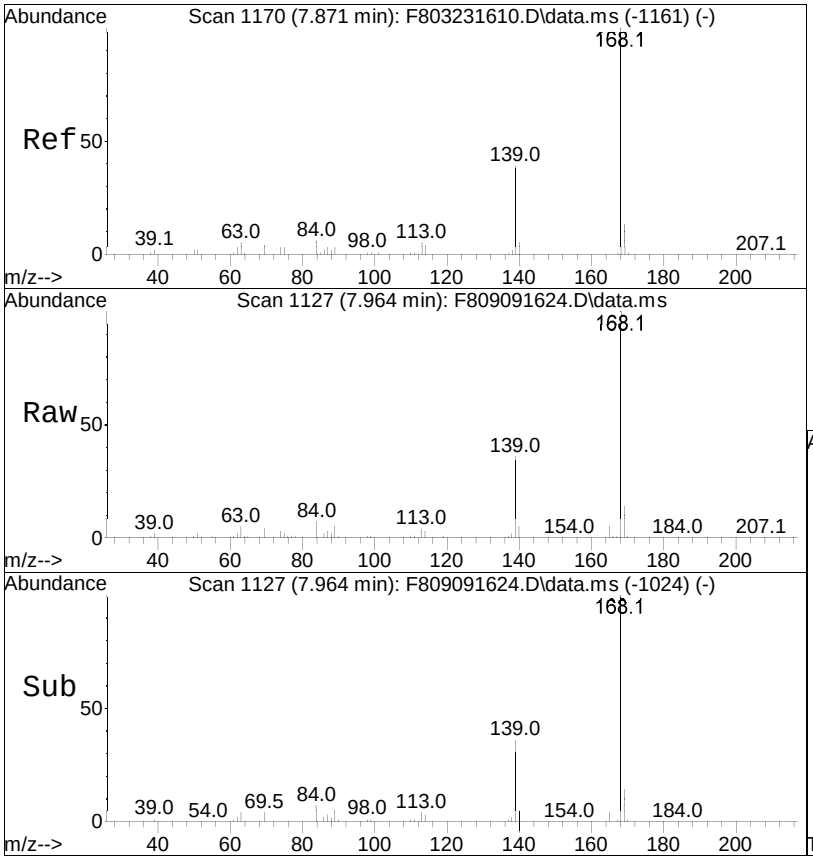


#52
2,4-Dinitrophenol
Concen: 8.88 ug/mL
RT: 7.814 min Scan# 1096
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:184 Resp: 104236

Ion	Ratio	Lower	Upper
184	100		
63	45.4	43.8	65.6
154	31.5	37.1	55.7#

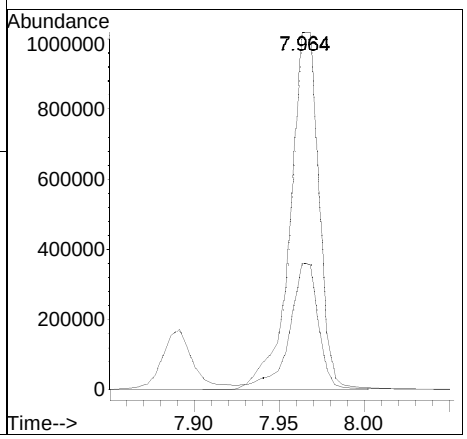


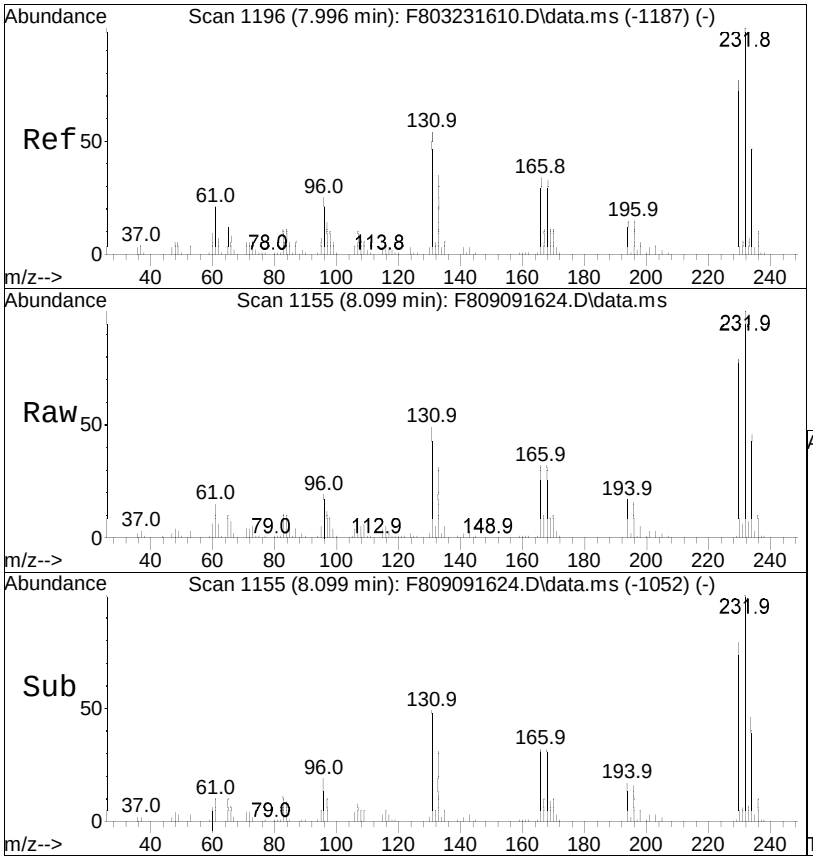


#53
Dibenzofuran
Concen: 8.87 ug/mL
RT: 7.964 min Scan# 1127
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:168 Resp: 1190739

Ion	Ratio	Lower	Upper
168	100		
139	34.6	28.8	43.2

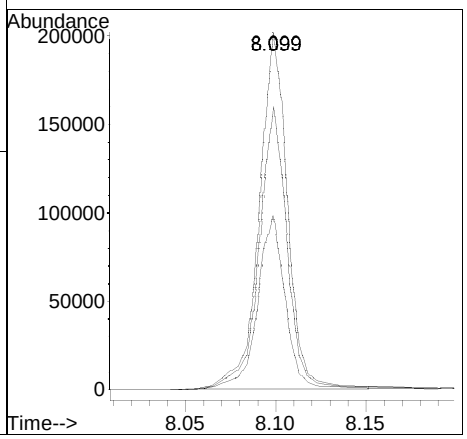


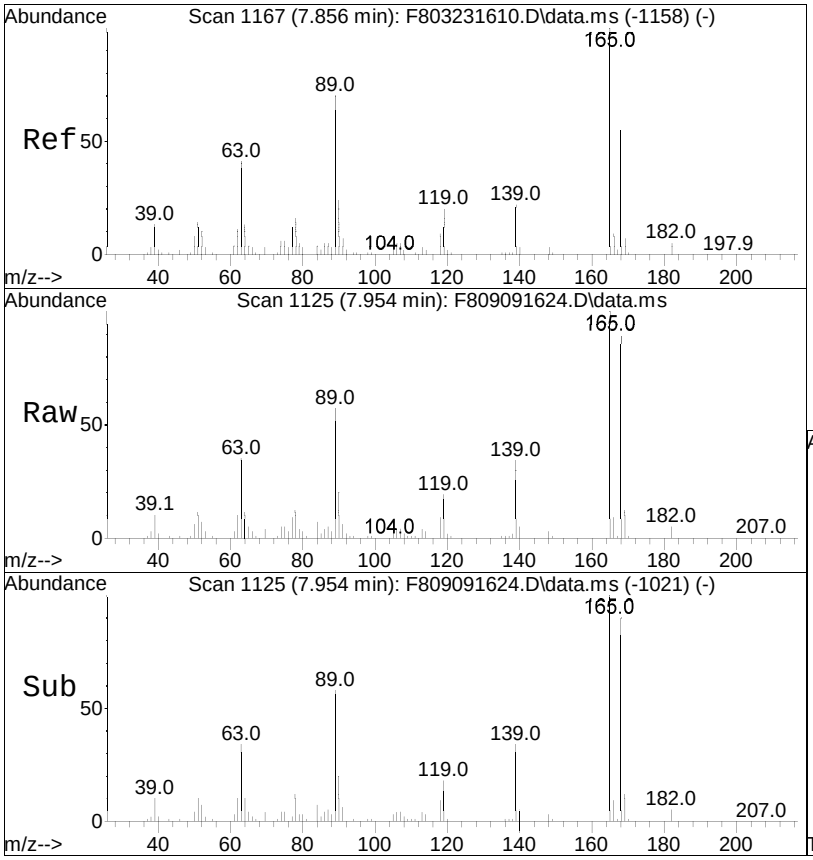


#54
2,3,4,6-Tetrachlorophenol
Concen: 10.70 ug/mL M4
RT: 8.099 min Scan# 1155
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:232 Resp: 217881

Ion	Ratio	Lower	Upper
232	100		
131	45.7	43.1	64.7
230	74.3	63.0	94.6

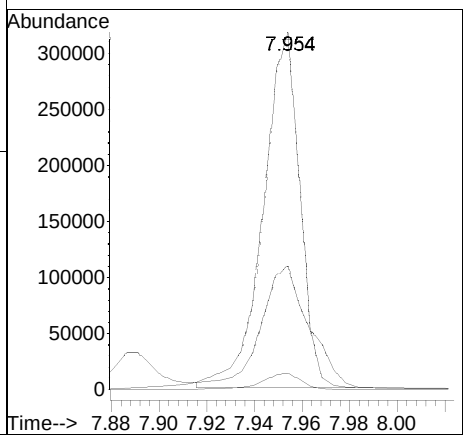


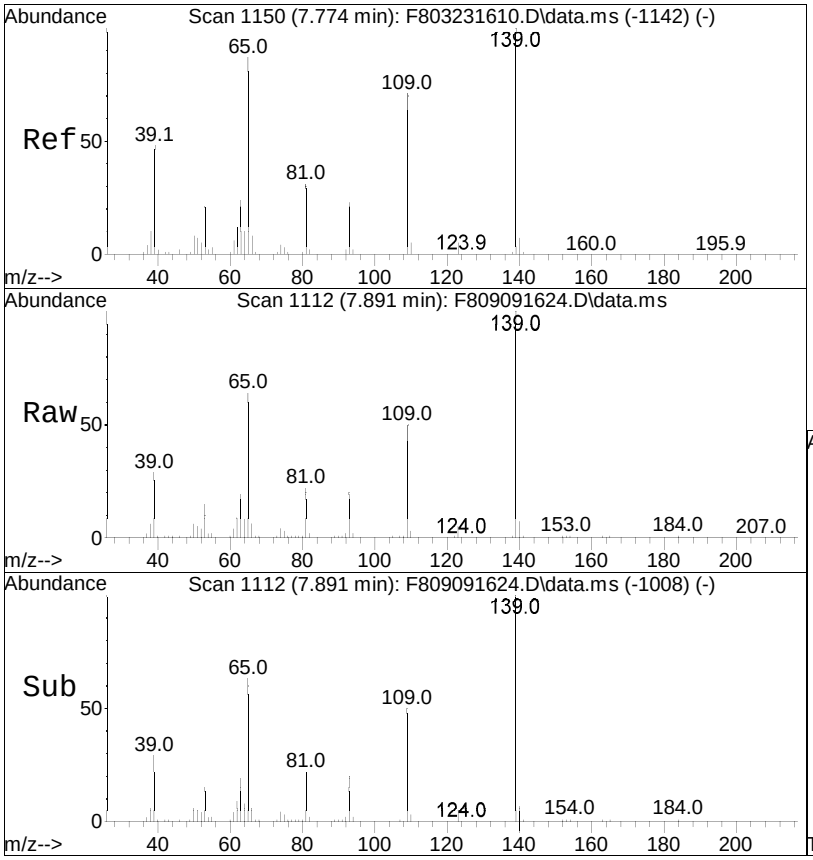


#55
2,4-Dinitrotoluene
Concen: 10.28 ug/mL
RT: 7.954 min Scan# 1125
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:165 Resp: 336659

Ion	Ratio	Lower	Upper
165	100		
63	46.0	30.9	46.3
182	4.7	3.5	5.3

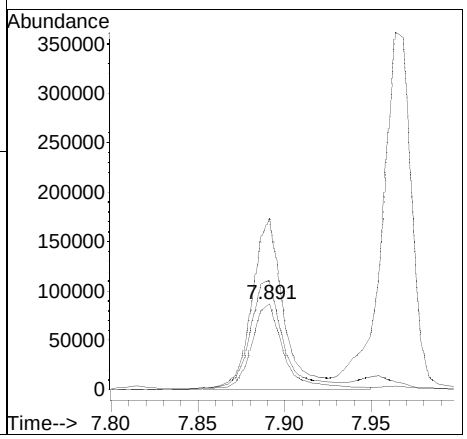


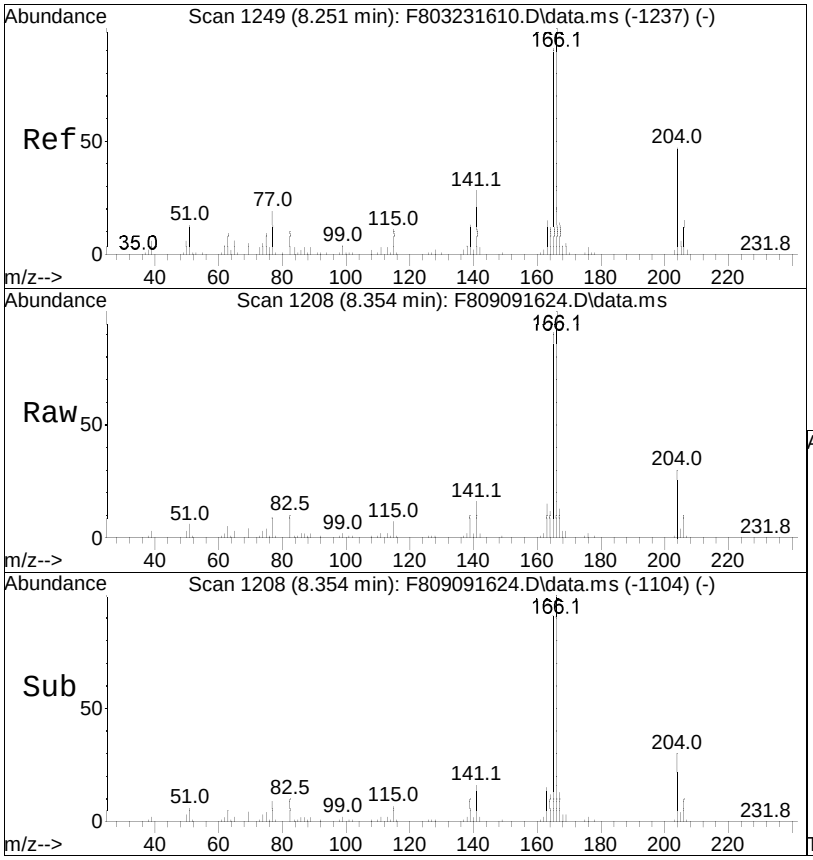


#56
4-Nitrophenol
Concen: 10.26 ug/mL M4
RT: 7.891 min Scan# 1112
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:109 Resp: 113491

Ion	Ratio	Lower	Upper
109	100		
139	186.9	149.7	224.5
65	125.0	107.3	160.9

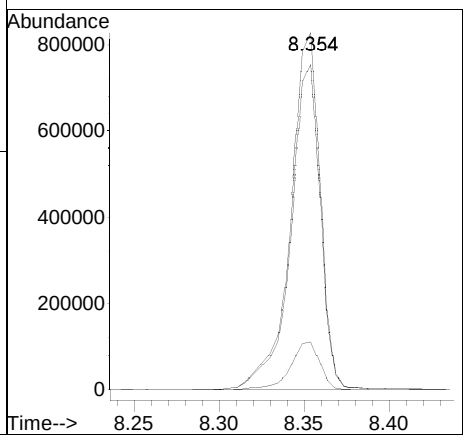


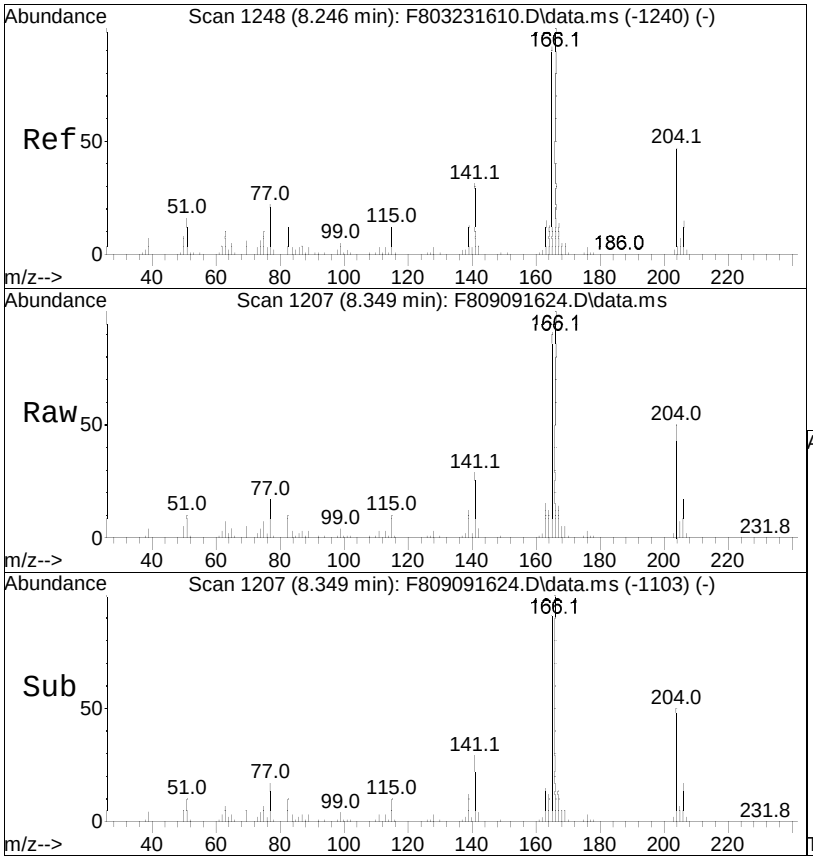


#57
Fluorene
Concen: 9.10 ug/mL
RT: 8.354 min Scan# 1208
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:166 Resp: 1006350

Ion	Ratio	Lower	Upper
166	100		
165	90.9	72.9	109.3
167	13.6	10.9	16.3

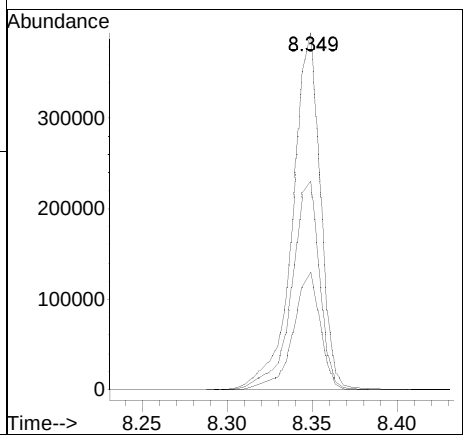


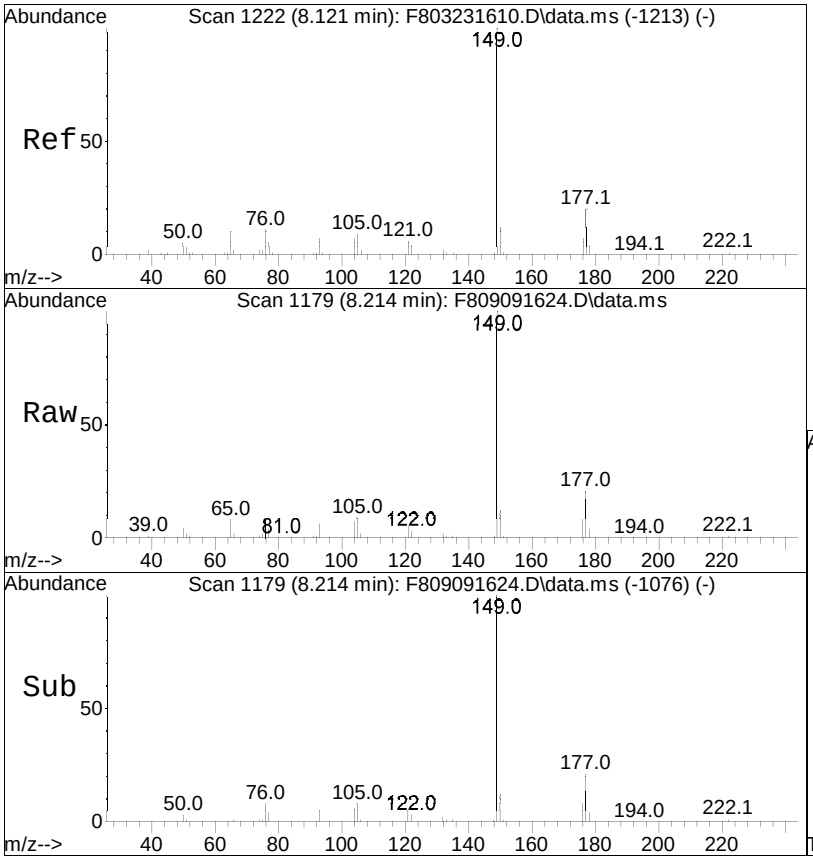


#58
4-Chlorophenyl-phenylether
Concen: 9.14 ug/mL
RT: 8.349 min Scan# 1207
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:204 Resp: 452236

Ion	Ratio	Lower	Upper
204	100		
206	32.6	25.9	38.9
141	59.0	46.2	69.4

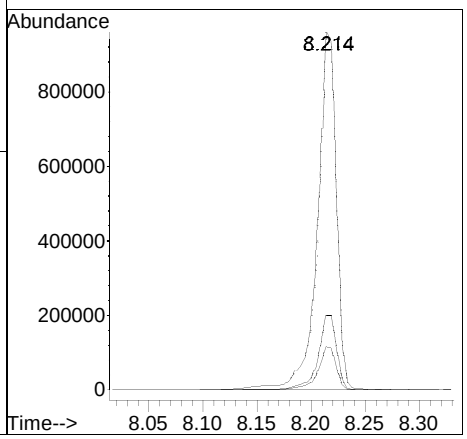


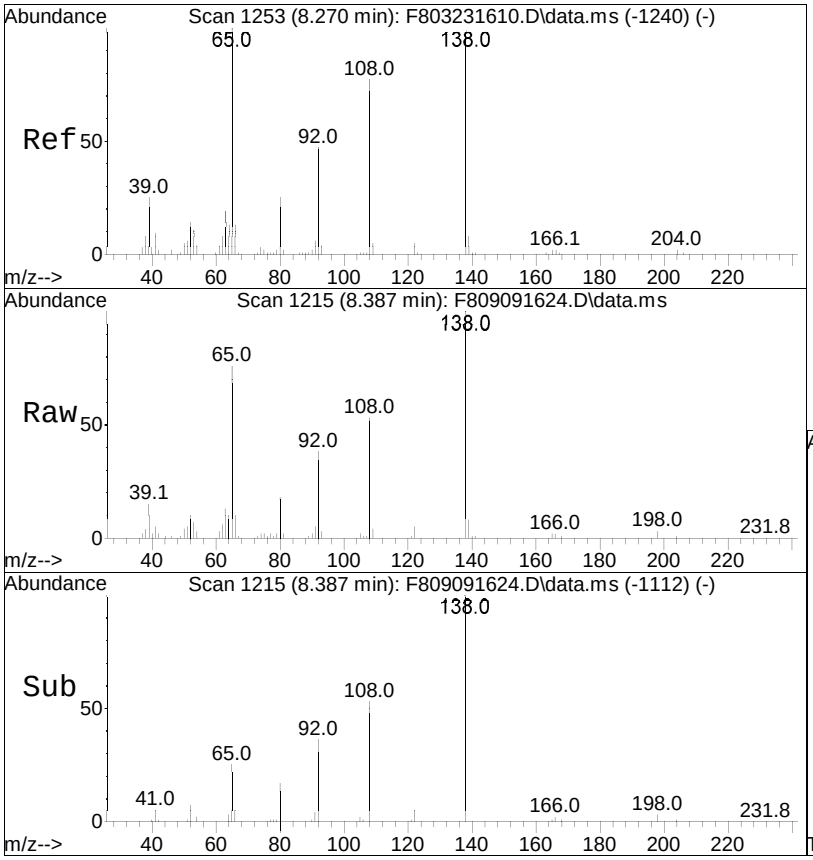


#59
Diethylphthalate
Concen: 10.18 ug/mL
RT: 8.214 min Scan# 1179
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:149 Resp: 1143427

Ion	Ratio	Lower	Upper
149	100		
177	21.1	16.6	24.8
150	12.0	9.8	14.6

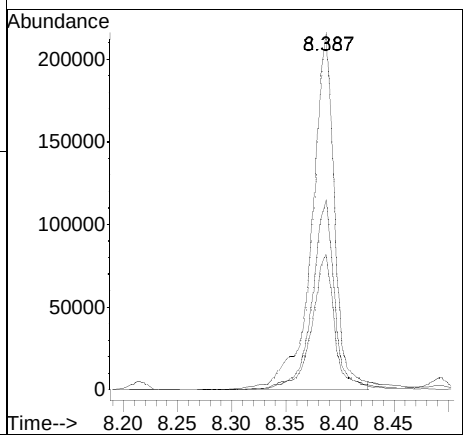


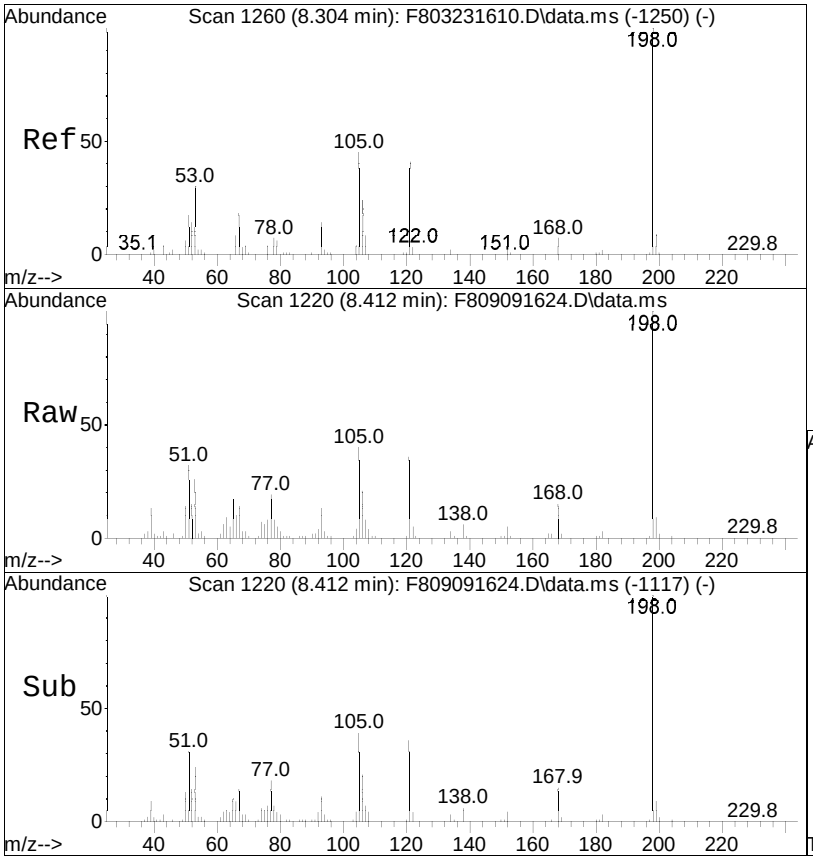


#60
4-Nitroaniline
Concen: 10.36 ug/mL
RT: 8.387 min Scan# 1215
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:138 Resp: 312647

Ion	Ratio	Lower	Upper
138	100		
92	39.8	32.7	49.1
108	55.4	45.8	68.6

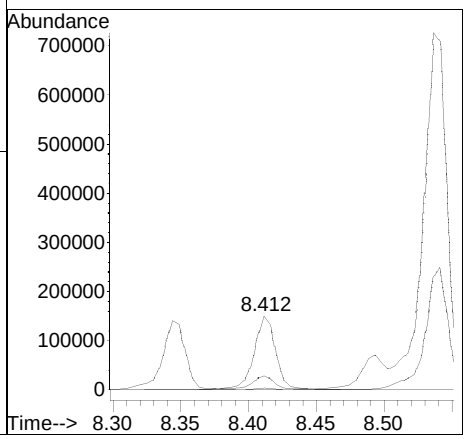


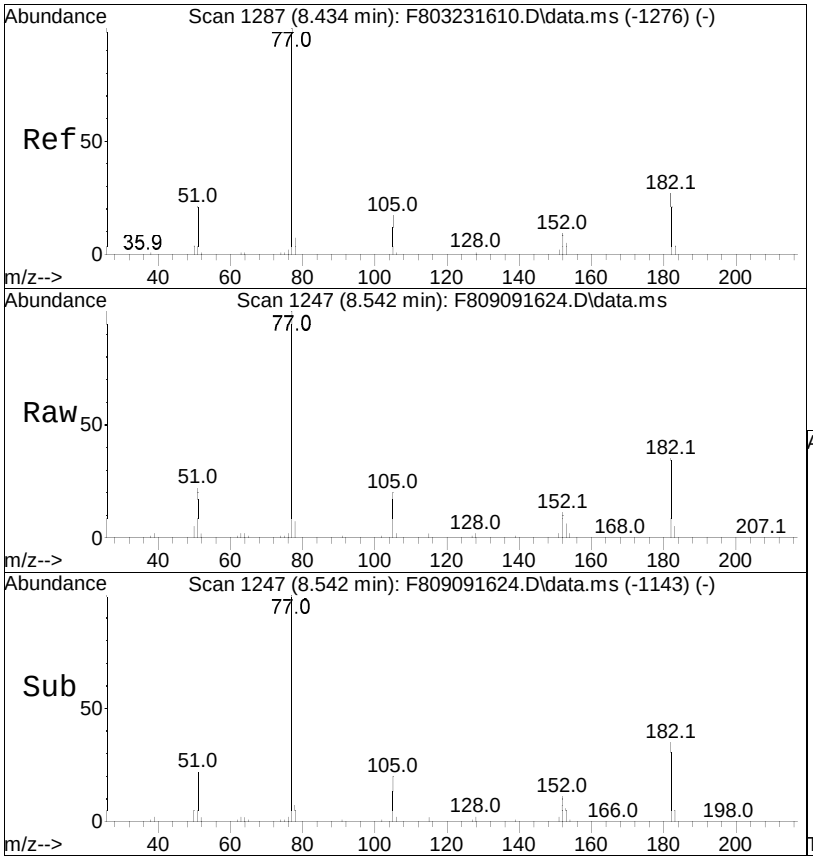


#62
4,6-Dinitro-2-methylphenol
Concen: 9.85 ug/mL M4
RT: 8.412 min Scan# 1220
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:198 Resp: 167658

Ion	Ratio	Lower	Upper
198	100		
182	2.7	2.2	3.2
77	16.6	16.8	25.2#

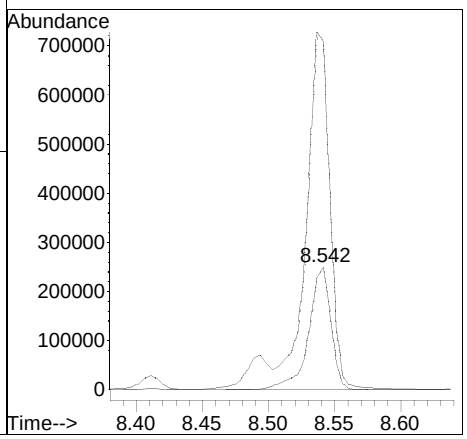


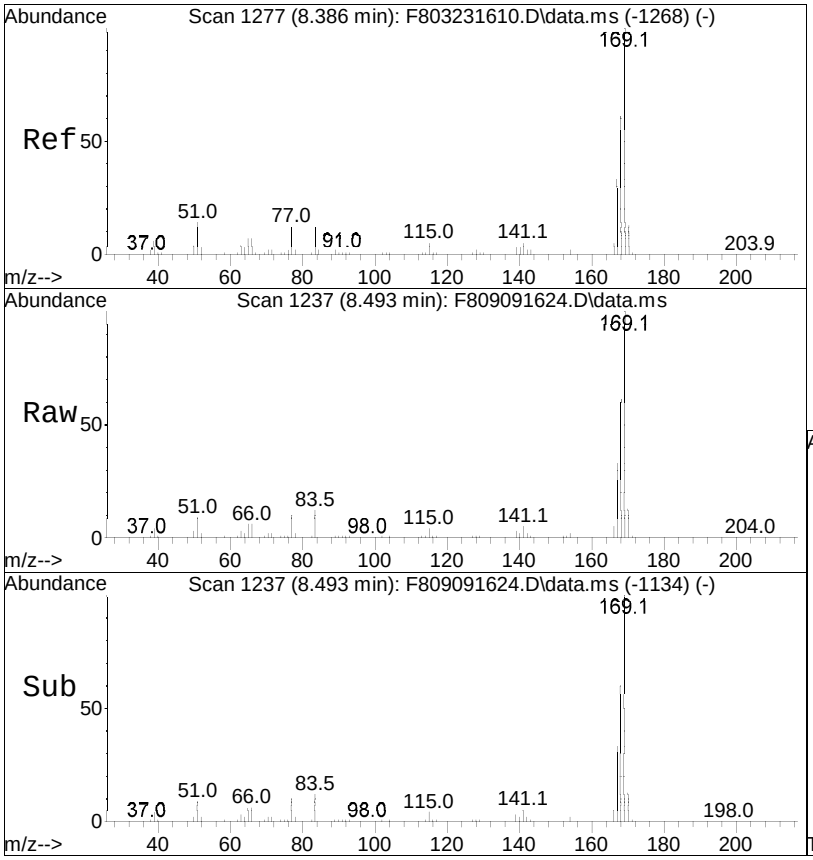


#63
Azobenzene
Concen: 9.75 ug/mL
RT: 8.542 min Scan# 1247
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:182 Resp: 293637

Ion	Ratio	Lower	Upper
182	100		
77	293.1	54.9	631.7

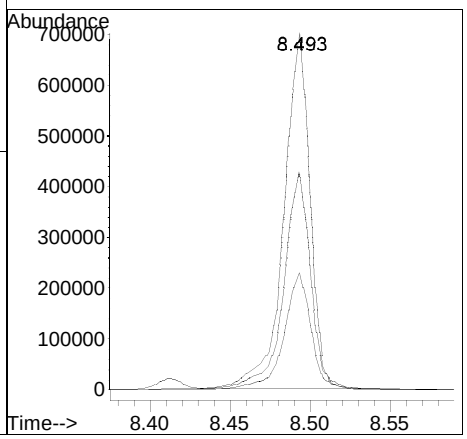


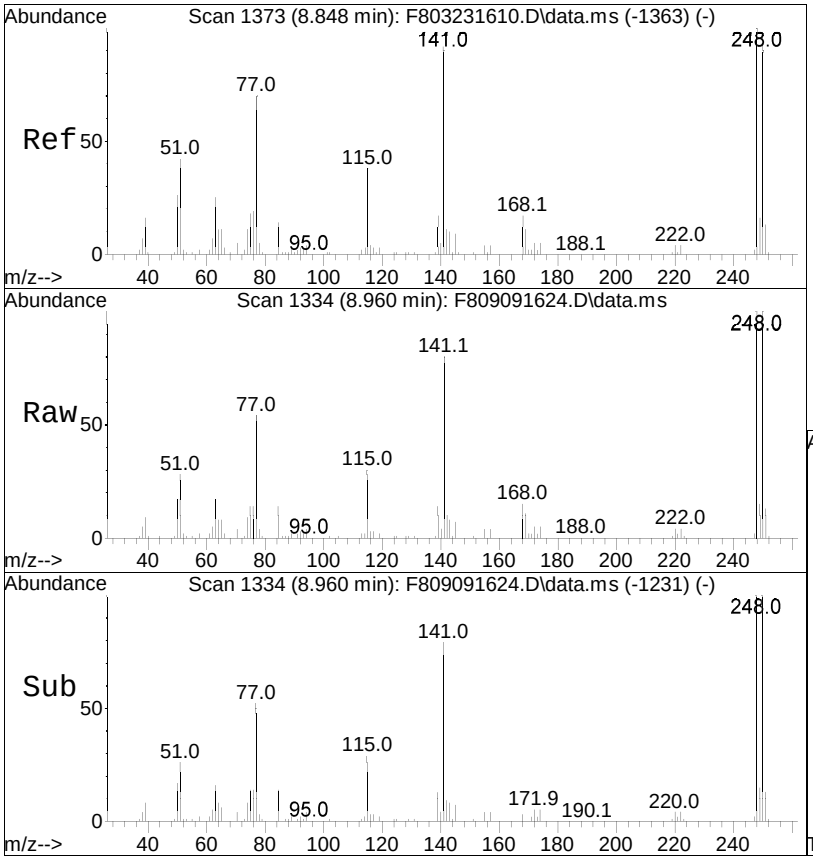


#64
n-Nitrosodiphenylamine
Concen: 10.09 ug/mL M4
RT: 8.493 min Scan# 1237
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:169 Resp: 796742

Ion	Ratio	Lower	Upper
169	100		
168	60.7	49.4	74.2
167	32.9	26.7	40.1

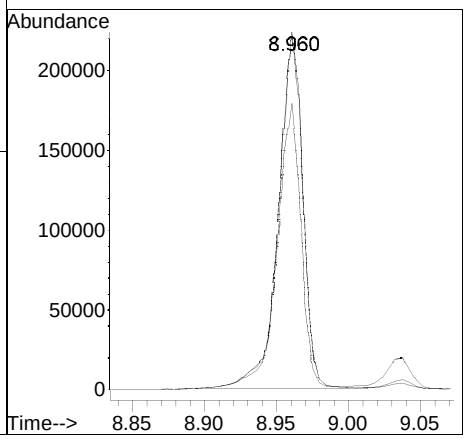


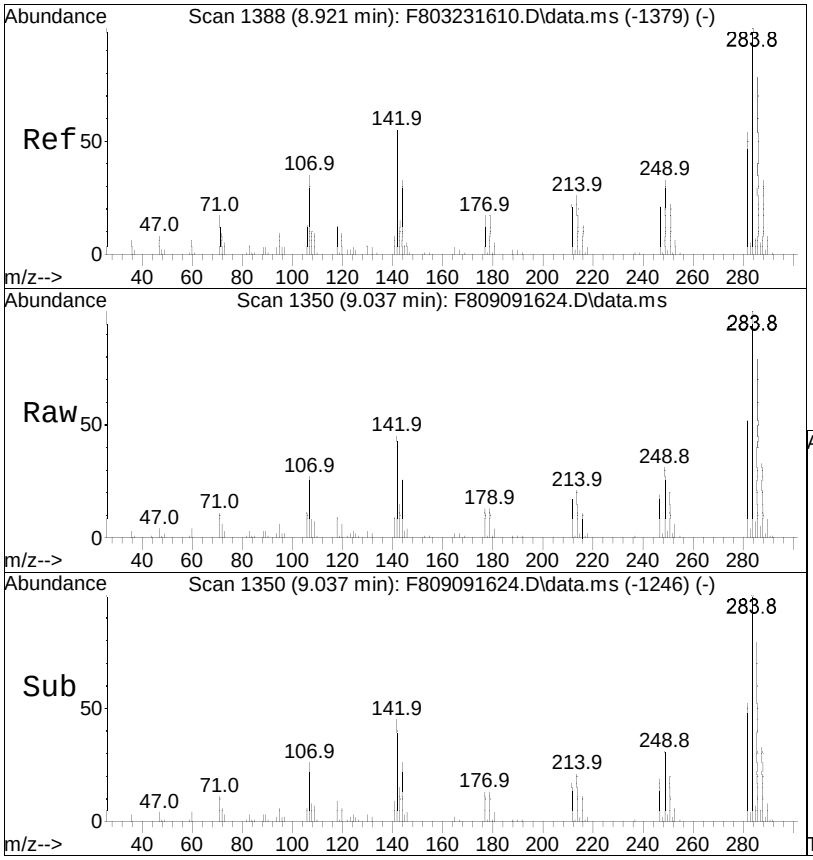


#66
4-Bromophenyl-phenylether
Concen: 9.56 ug/mL M4
RT: 8.960 min Scan# 1334
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:248 Resp: 263452

Ion	Ratio	Lower	Upper
248	100		
250	94.4	77.3	115.9
141	74.5	61.7	92.5

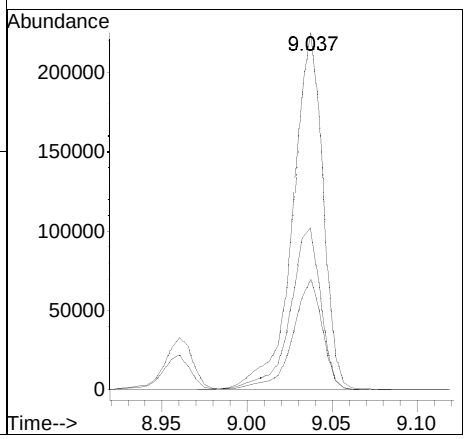


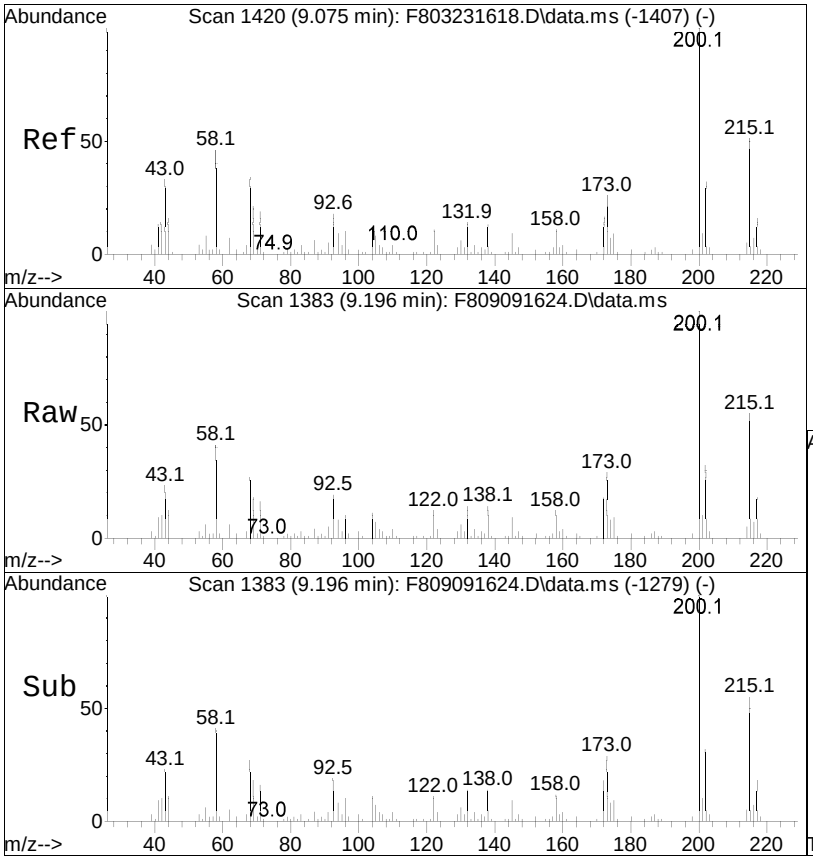


#67
Hexachlorobenzene
Concen: 9.68 ug/mL
RT: 9.037 min Scan# 1350
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:284 Resp: 279040

Ion	Ratio	Lower	Upper
284	100		
142	45.7	37.8	56.6
249	30.2	24.8	37.2

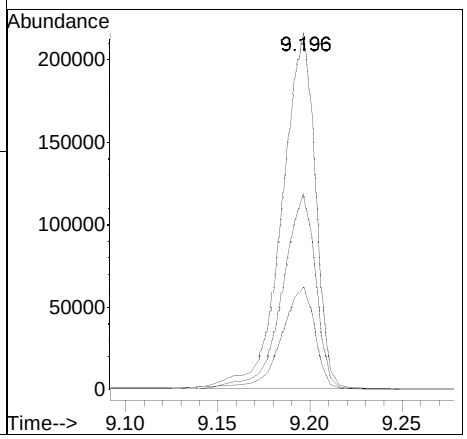


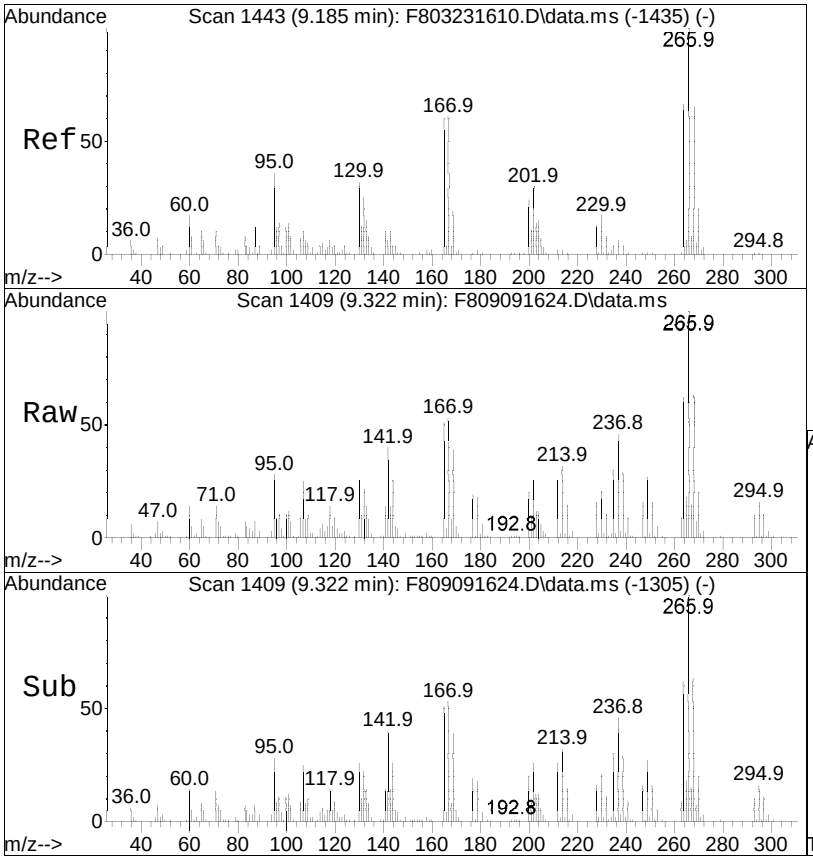


#68
Atrazine
Concen: 8.90 ug/ml M4
RT: 9.196 min Scan# 1383
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:200 Resp: 271005

Ion	Ratio	Lower	Upper
200	100		
173	28.7	22.4	33.6
215	54.4	43.8	65.6

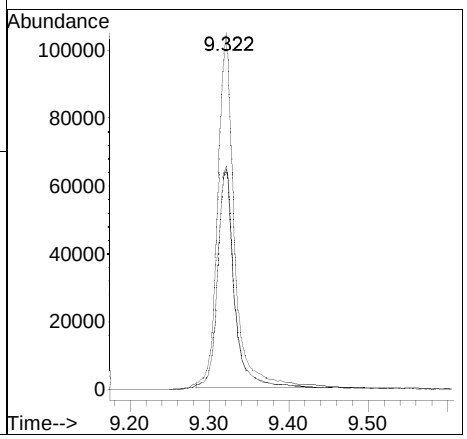


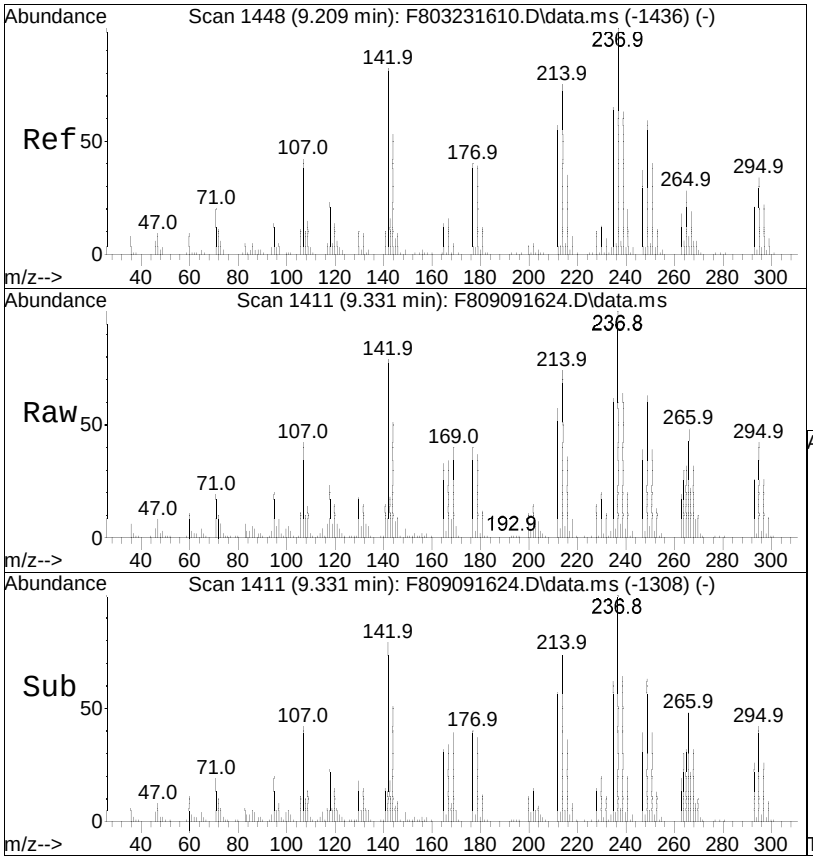


#69
Pentachlorophenol
Concen: 9.68 ug/mL
RT: 9.322 min Scan# 1409
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:266 Resp: 152465

Ion	Ratio	Lower	Upper
266	100		
264	62.4	49.7	74.5
268	64.7	48.1	72.1

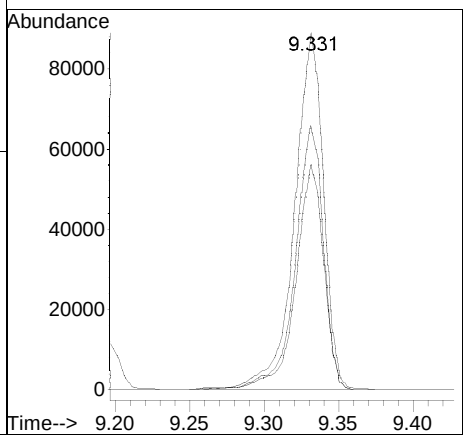


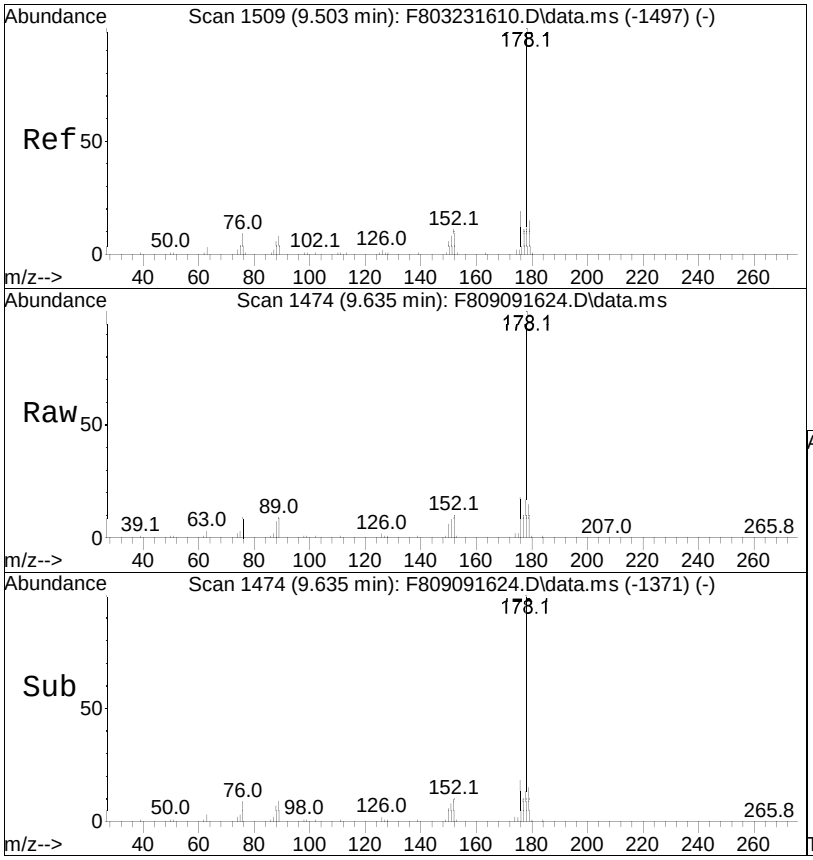


#70
Pentachloronitrobenzene
Concen: 10.51 ug/ml
RT: 9.331 min Scan# 1411
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:237 Resp: 120628

Ion	Ratio	Lower	Upper
237	100		
214	72.1	63.4	95.2
249	61.1	54.9	82.3

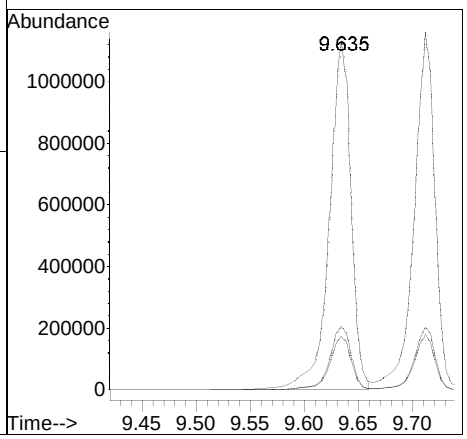


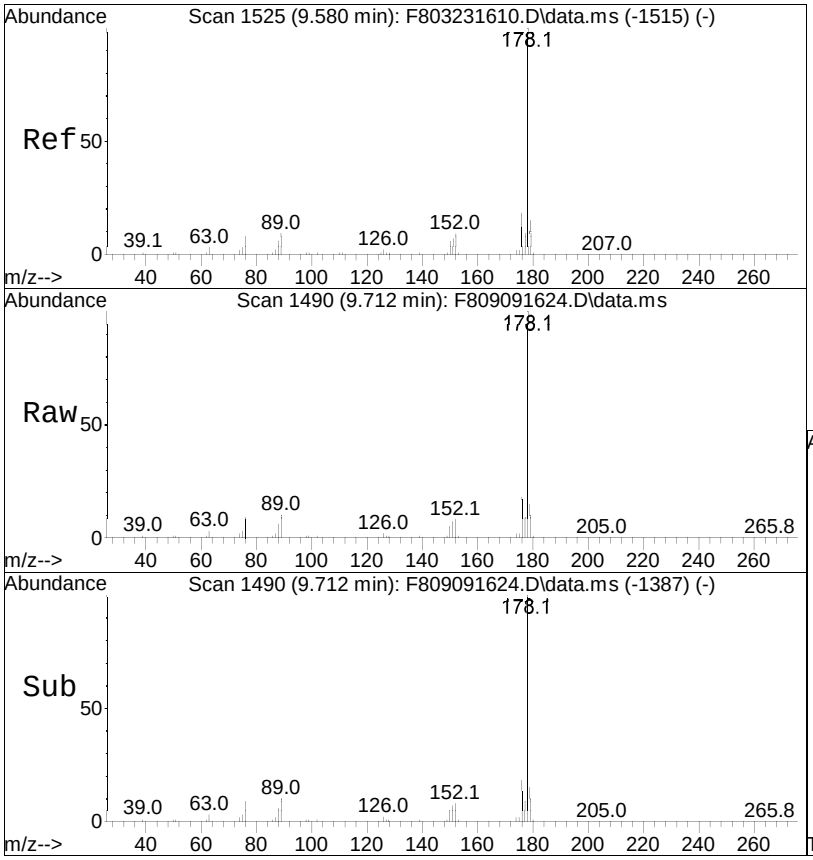


#71
Phenanthrene
Concen: 9.78 ug/mL
RT: 9.635 min Scan# 1474
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:178 Resp: 1579599

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.4	18.6
176	18.2	15.0	22.6

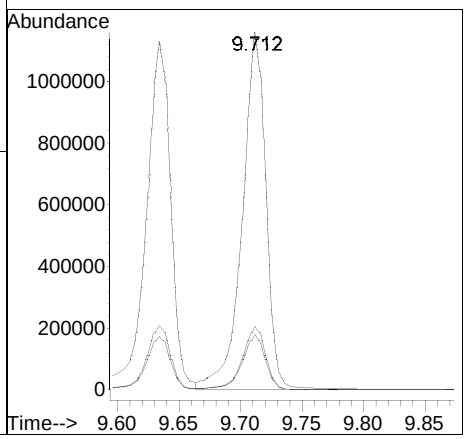


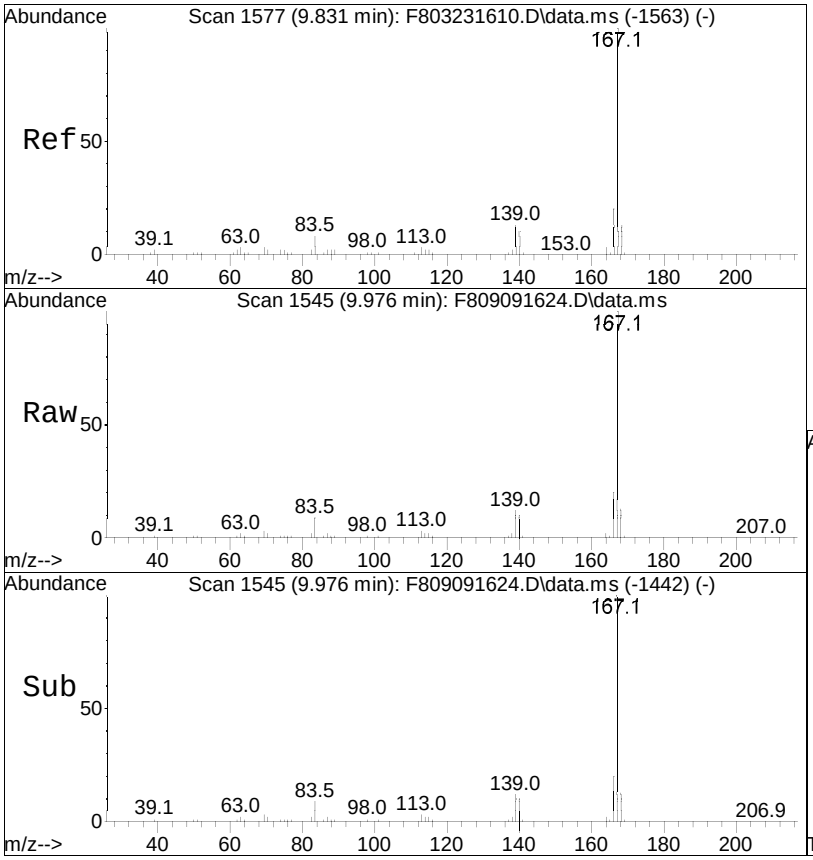


#72
Anthracene
Concen: 9.64 ug/mL M4
RT: 9.712 min Scan# 1490
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:178 Resp: 1536901

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.6	18.8
176	17.4	14.6	22.0

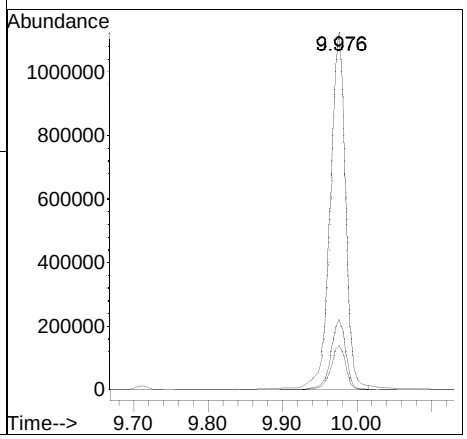


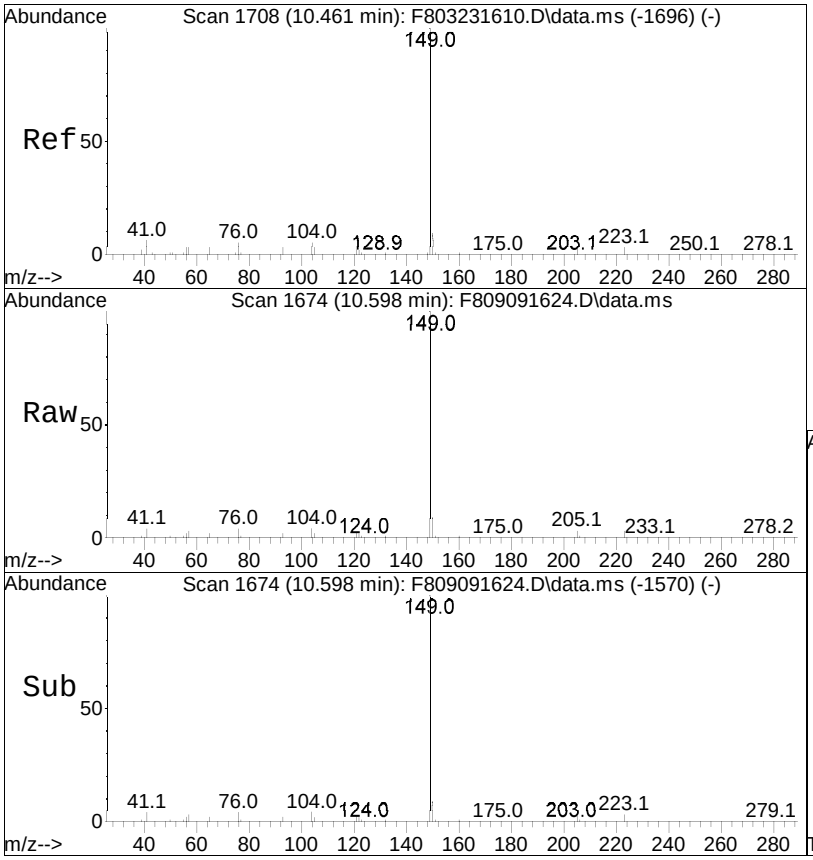


#73
Carbazole
Concen: 10.47 ug/mL
RT: 9.976 min Scan# 1545
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:167 Resp: 1604360

Ion	Ratio	Lower	Upper
167	100		
139	12.3	10.3	15.5
166	19.6	15.9	23.9

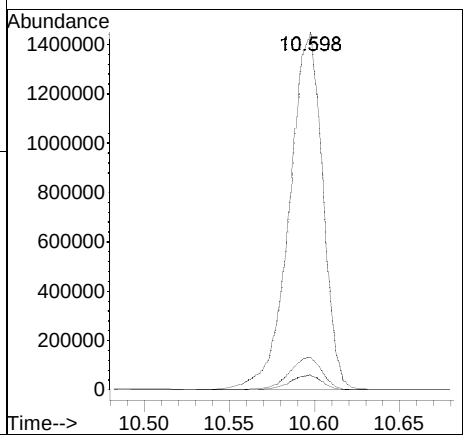


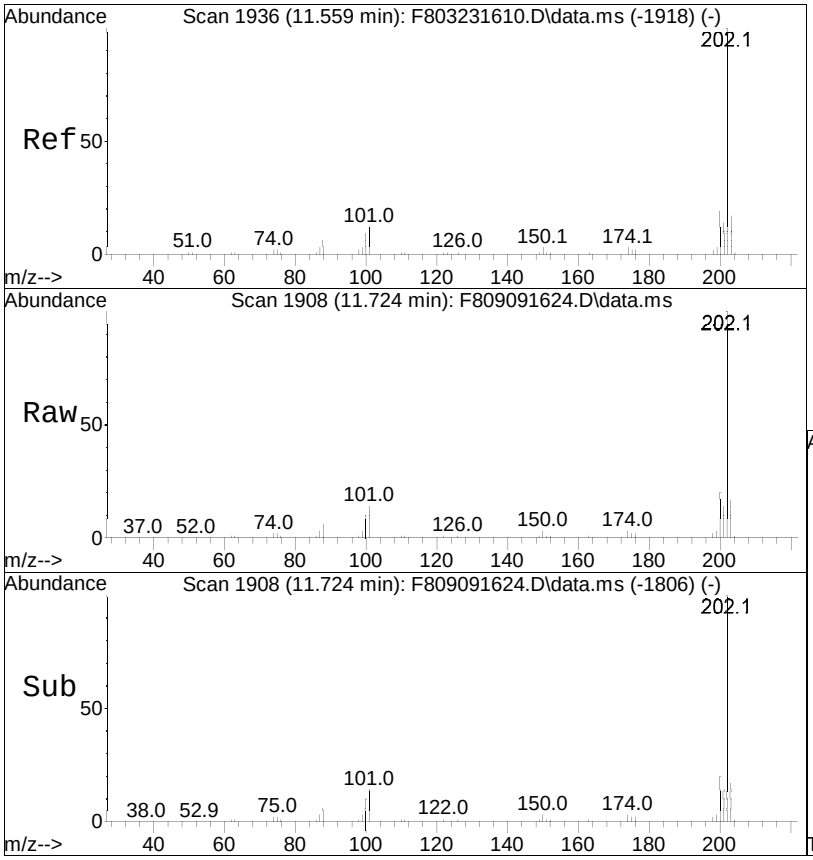


#74
Di-n-butylphthalate
Concen: 10.51 ug/mL
RT: 10.598 min Scan# 1674
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:149 Resp: 1947277

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.2
104	4.1	3.5	5.3

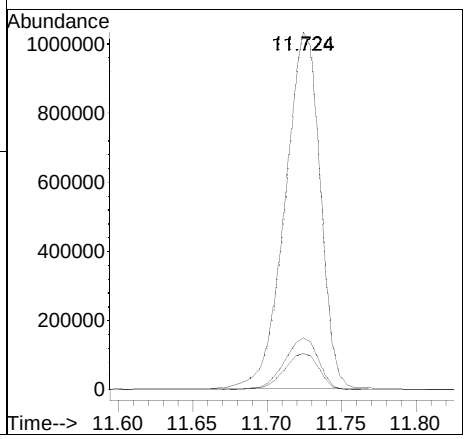


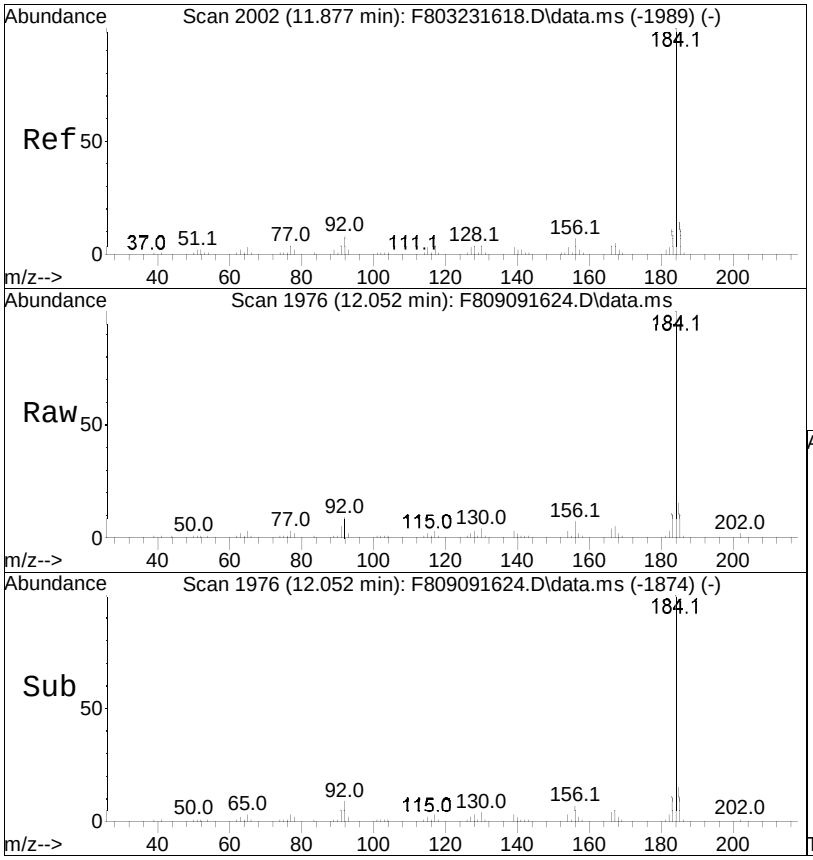


#75
Fluoranthene
Concen: 10.07 ug/mL
RT: 11.724 min Scan# 1908
Delta R.T. -0.010 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:202 Resp: 1680766

Ion	Ratio	Lower	Upper
202	100		
101	14.4	13.4	20.2
100	10.4	9.4	14.2

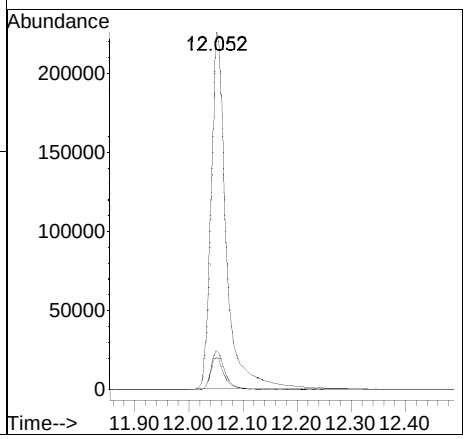


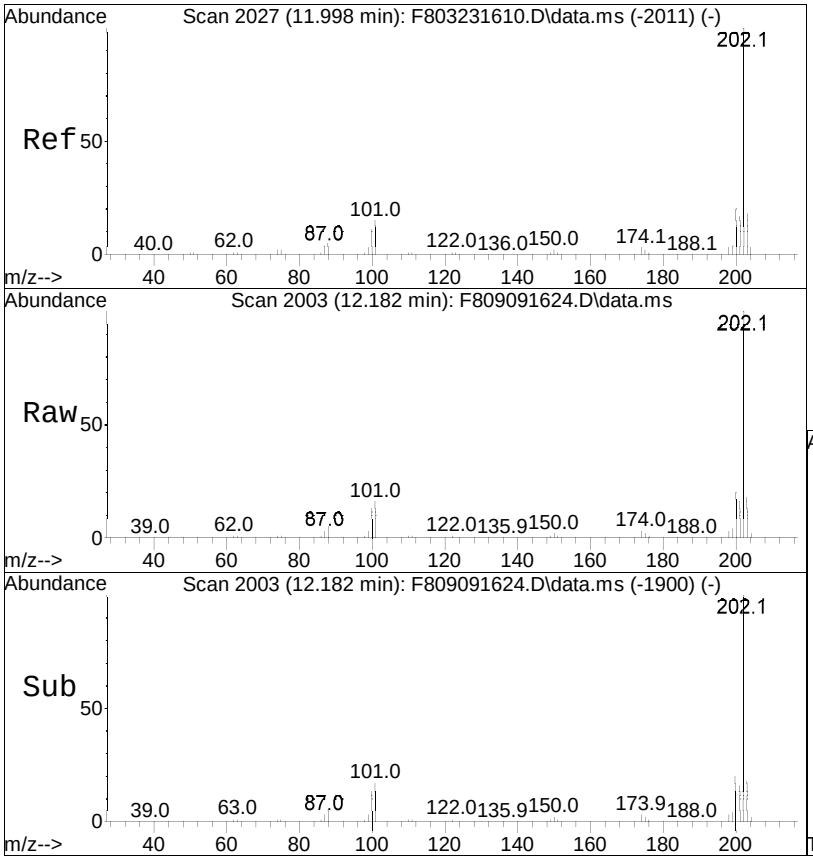


#77
Benzidine
Concen: 3.77 ug/mL
RT: 12.052 min Scan# 1976
Delta R.T. -0.010 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:184 Resp: 424722

Ion	Ratio	Lower	Upper
184	100		
183	10.9	9.0	13.4
92	9.5	7.4	11.2

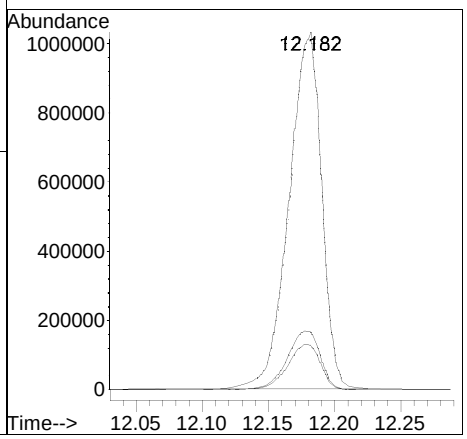


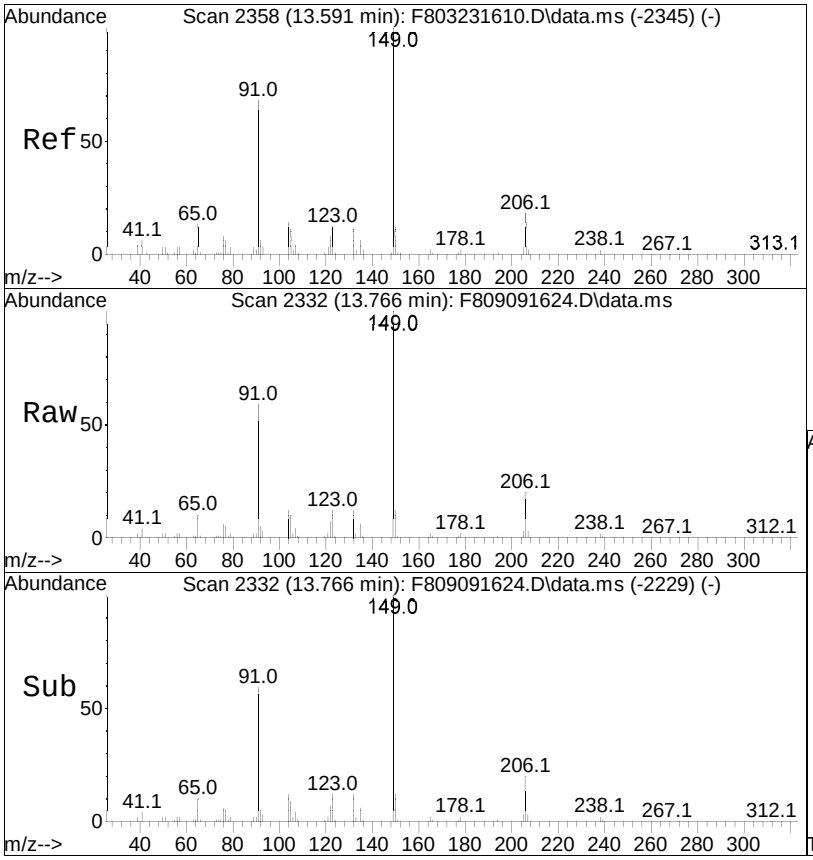


#78
Pyrene
Concen: 10.26 ug/mL
RT: 12.182 min Scan# 2003
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:202 Resp: 1745147

Ion	Ratio	Lower	Upper
202	100		
101	17.0	14.9	22.3
100	13.1	11.4	17.2

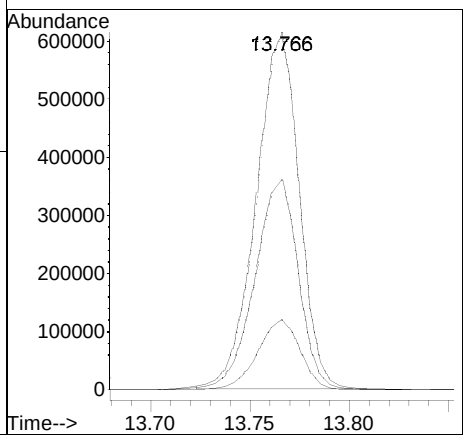


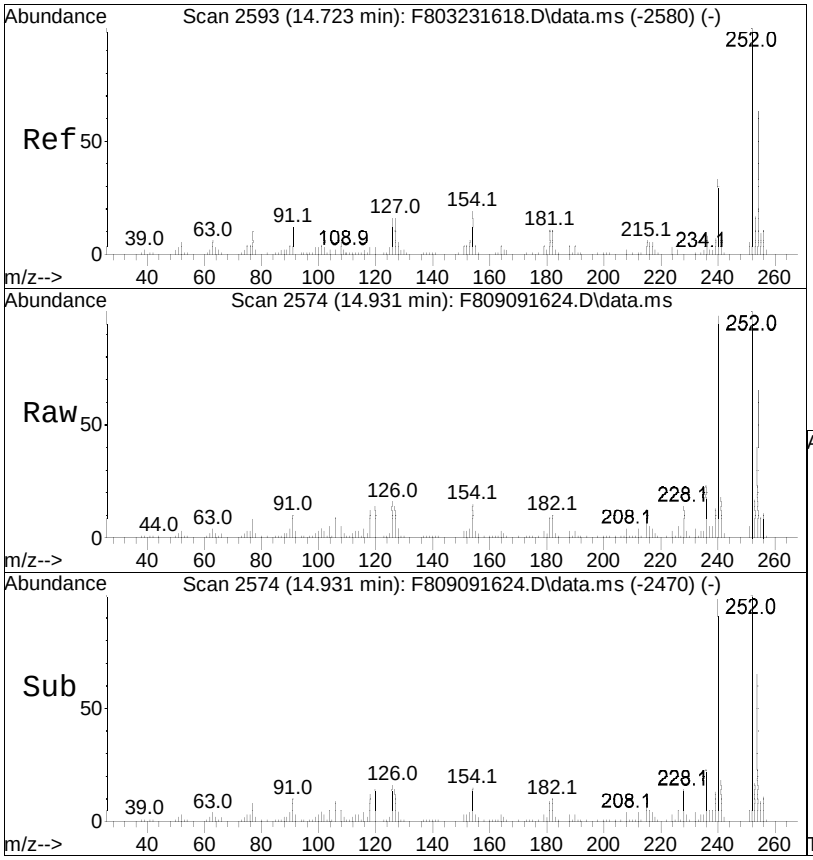


#80
Butylbenzylphthalate
Concen: 10.93 ug/mL
RT: 13.766 min Scan# 2332
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:149 Resp: 912573

Ion	Ratio	Lower	Upper
149	100		
91	60.5	50.8	76.2
206	19.6	15.0	22.4

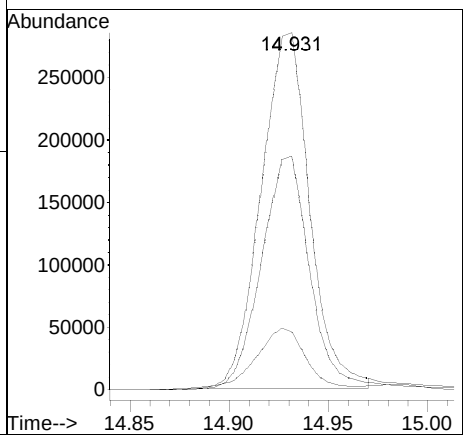


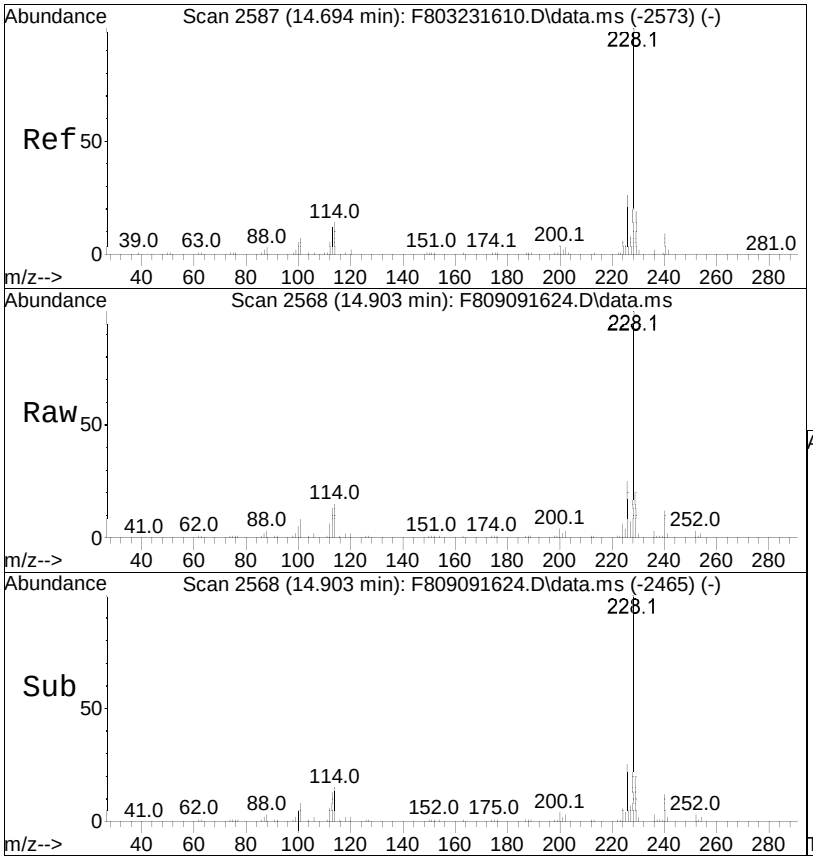


#81
3,3'-Dichlorobenzidine
Concen: 8.67 ug/mL
RT: 14.931 min Scan# 2574
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:252 Resp: 484232

Ion	Ratio	Lower	Upper
252	100		
254	64.5	52.0	78.0
126	18.7	13.6	20.4

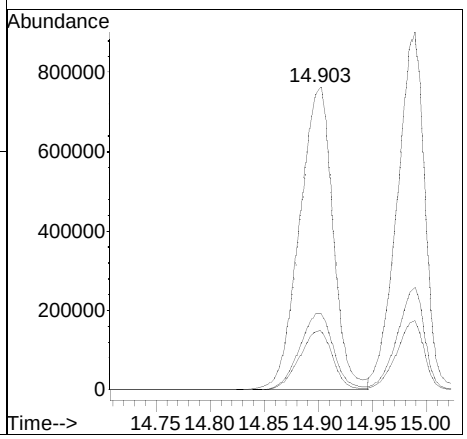


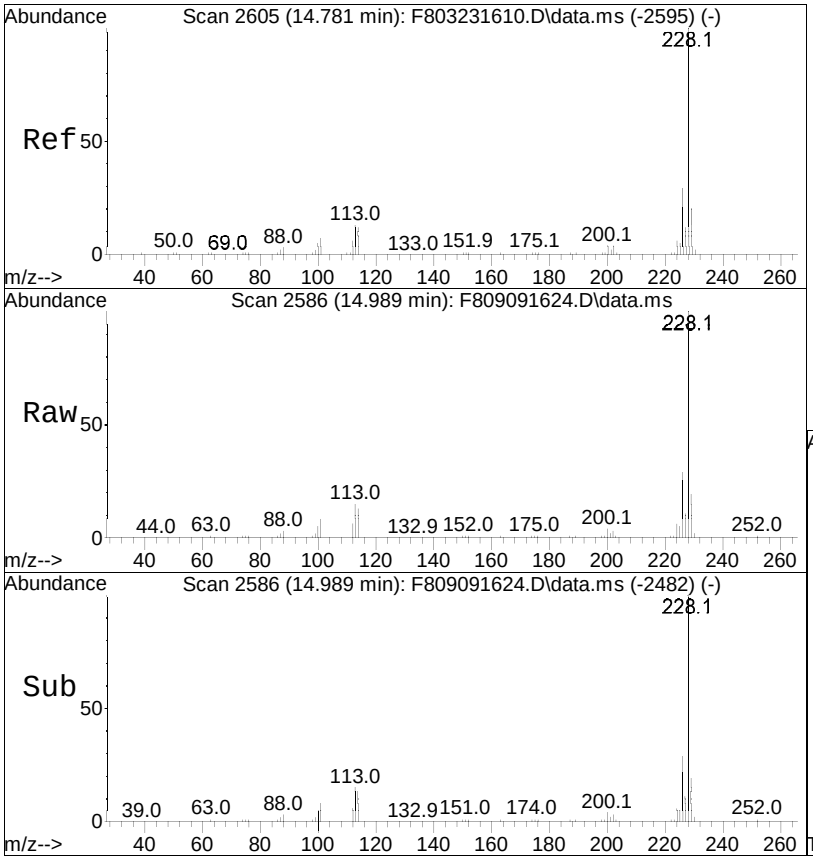


#82
Benz[a]anthracene
Concen: 10.17 ug/mL
RT: 14.903 min Scan# 2568
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:228 Resp: 1640459

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.9	23.9
226	26.0	21.2	31.8

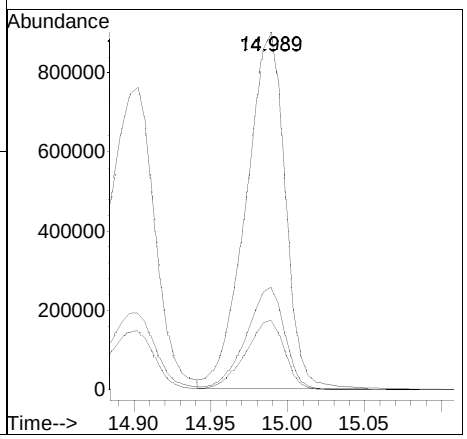


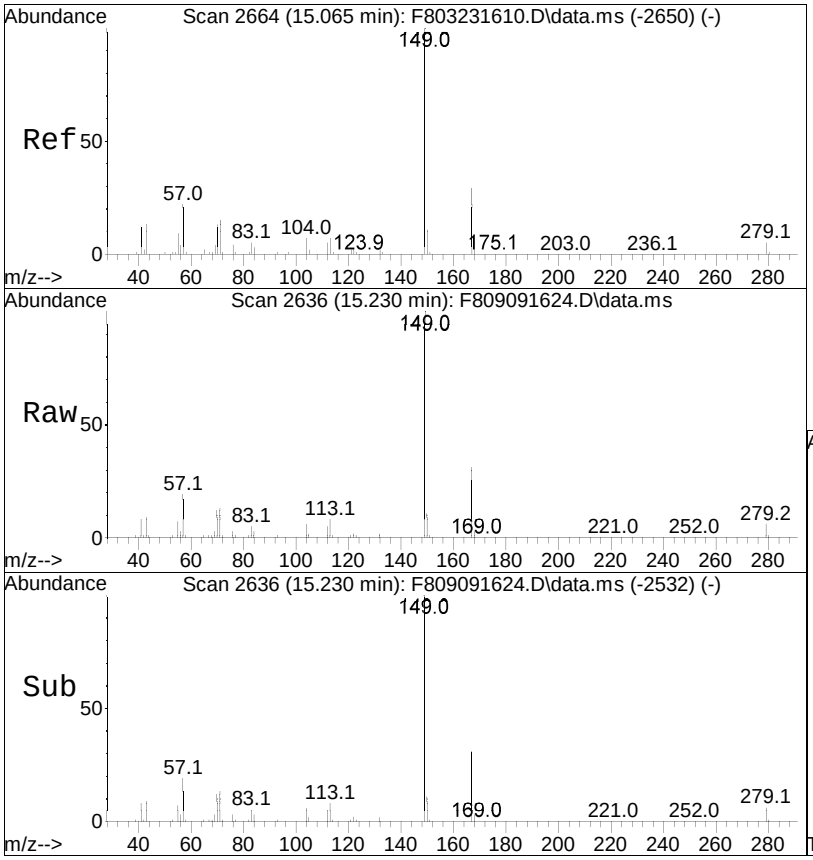


#83
Chrysene
Concen: 10.61 ug/mL M4
RT: 14.989 min Scan# 2586
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:228 Resp: 1589008

Ion	Ratio	Lower	Upper
228	100		
226	27.7	23.7	35.5
229	19.2	15.8	23.8

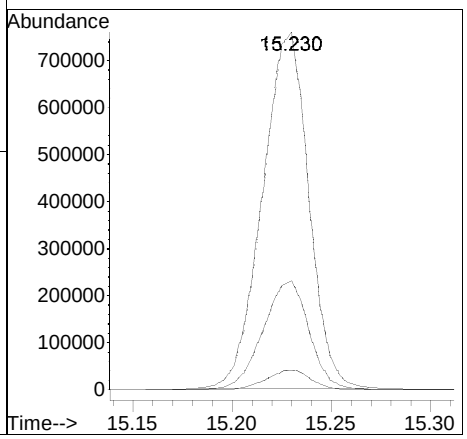


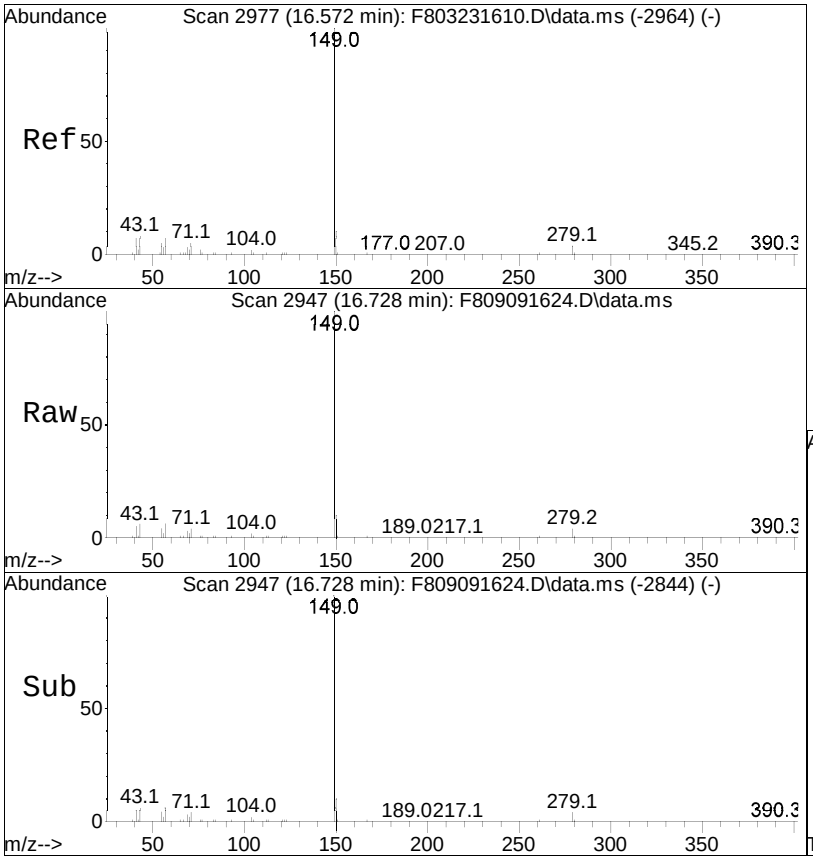


#84
bis(2-Ethylhexyl)phthalate
Concen: 11.02 ug/mL
RT: 15.230 min Scan# 2636
Delta R.T. 0.000 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:149 Resp: 1210286

Ion	Ratio	Lower	Upper
149	100		
167	30.3	23.8	35.6
279	5.5	4.0	6.0

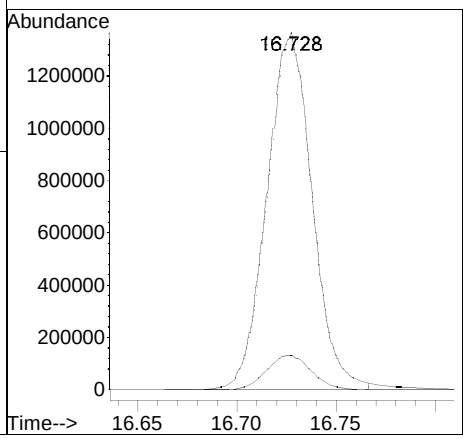


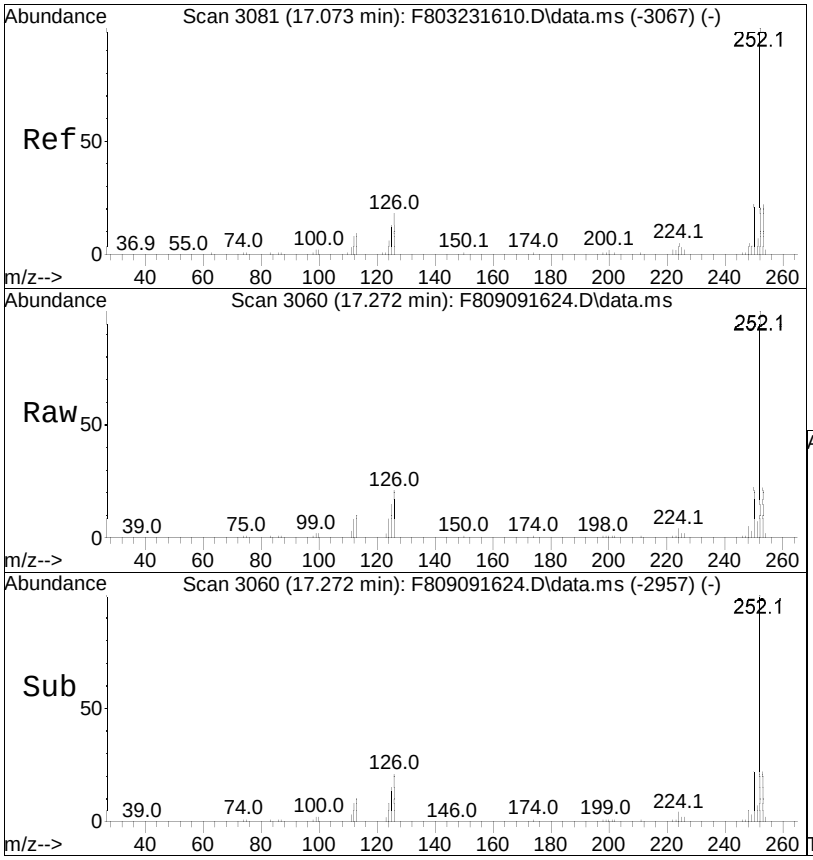


#86
Di-n-octylphthalate
Concen: 11.37 ug/mL
RT: 16.728 min Scan# 2947
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:149 Resp: 2129731

Ion	Ratio	Lower	Upper
149	100		
150	9.9	8.1	12.1

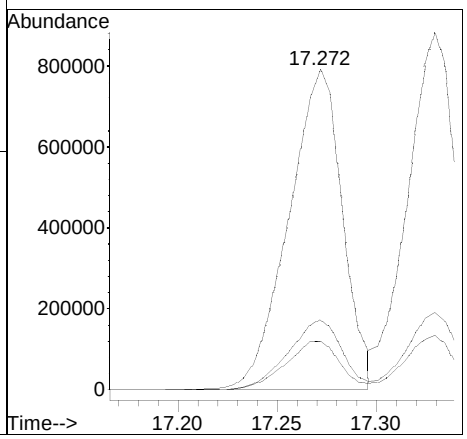


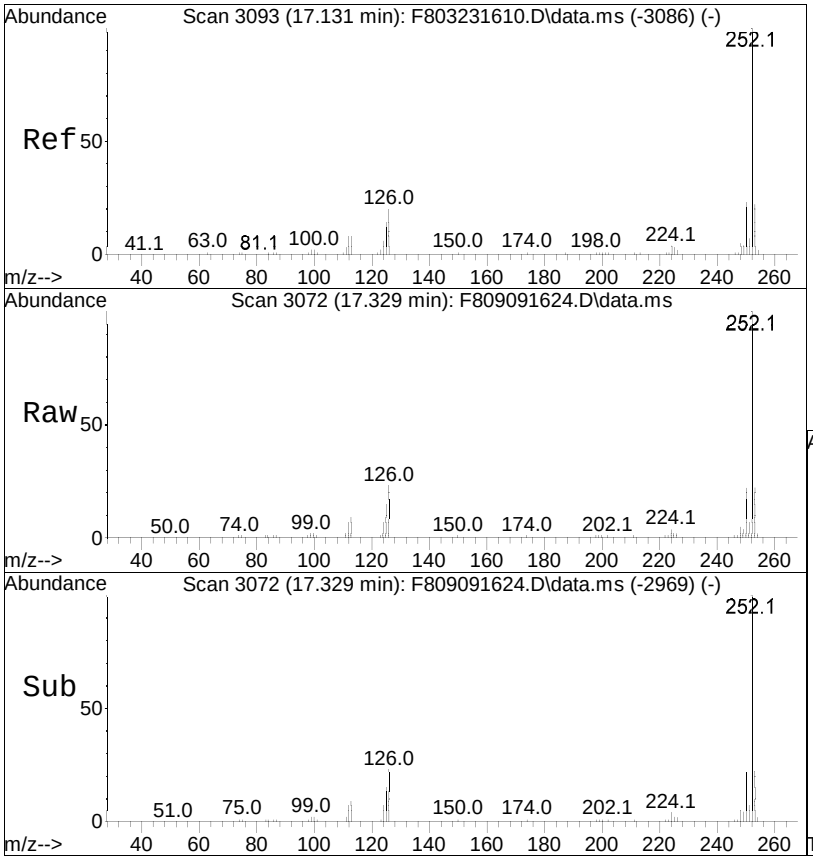


#87
Benzo[b]fluoranthene
Concen: 10.30 ug/mL
RT: 17.272 min Scan# 3060
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:252 Resp: 1482486

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	15.5	13.7	20.5

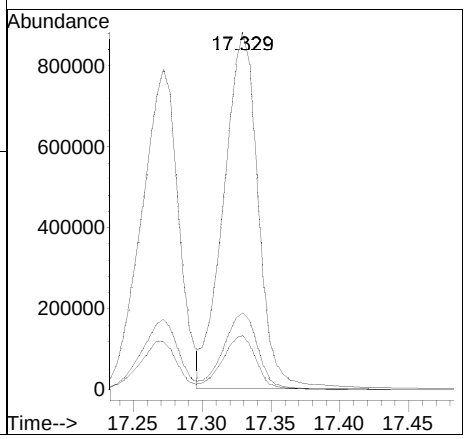


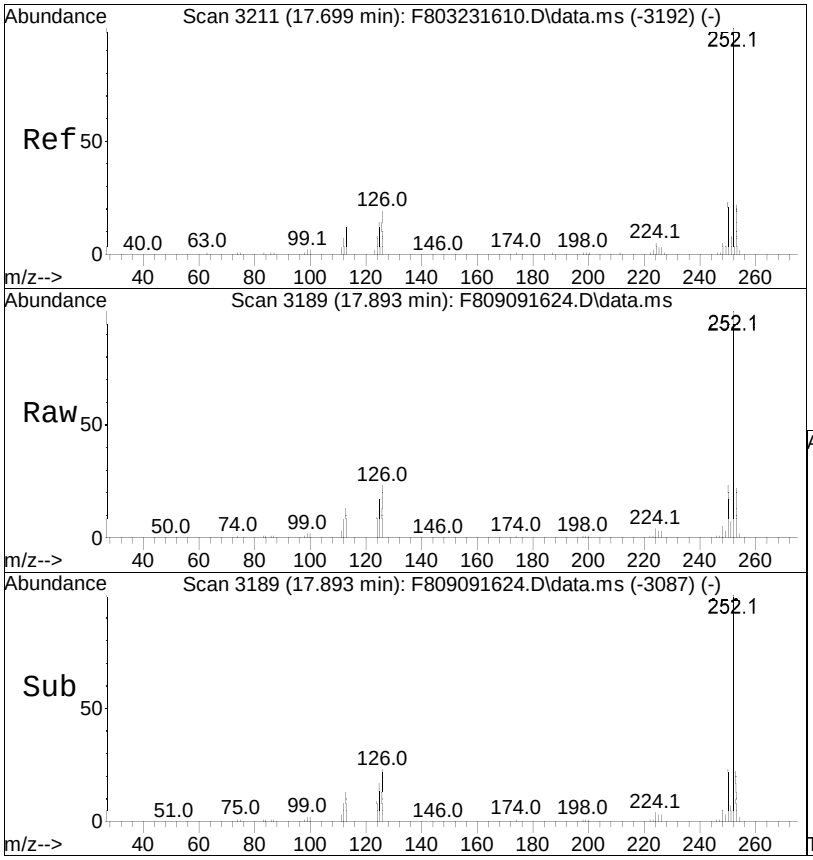


#88
Benzo[k]fluoranthene
Concen: 11.69 ug/mL M4
RT: 17.329 min Scan# 3072
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:252 Resp: 1537450

Ion	Ratio	Lower	Upper
252	100		
253	20.6	17.3	25.9
125	14.3	13.3	19.9

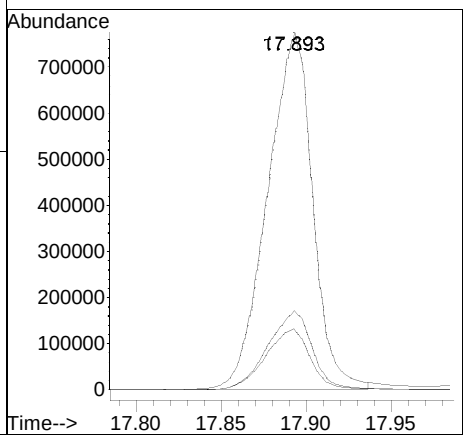


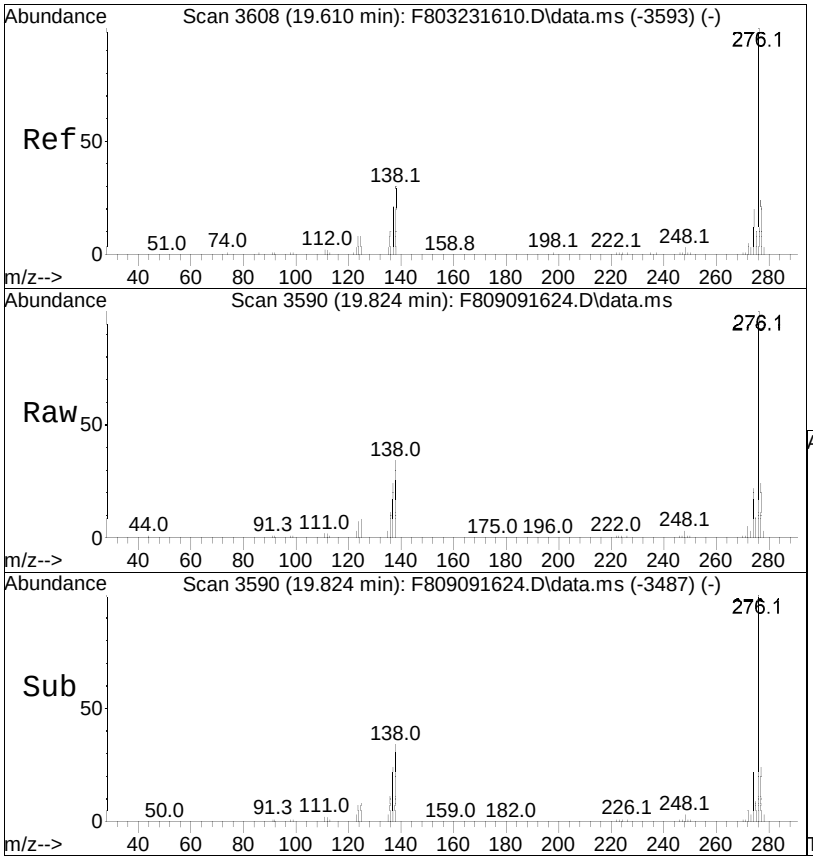


#89
Benzo[a]pyrene
Concen: 10.40 ug/mL
RT: 17.893 min Scan# 3189
Delta R.T. -0.010 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:252 Resp: 1410201

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0
125	17.0	14.3	21.5

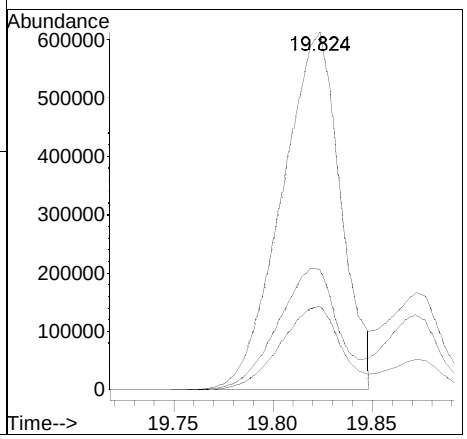


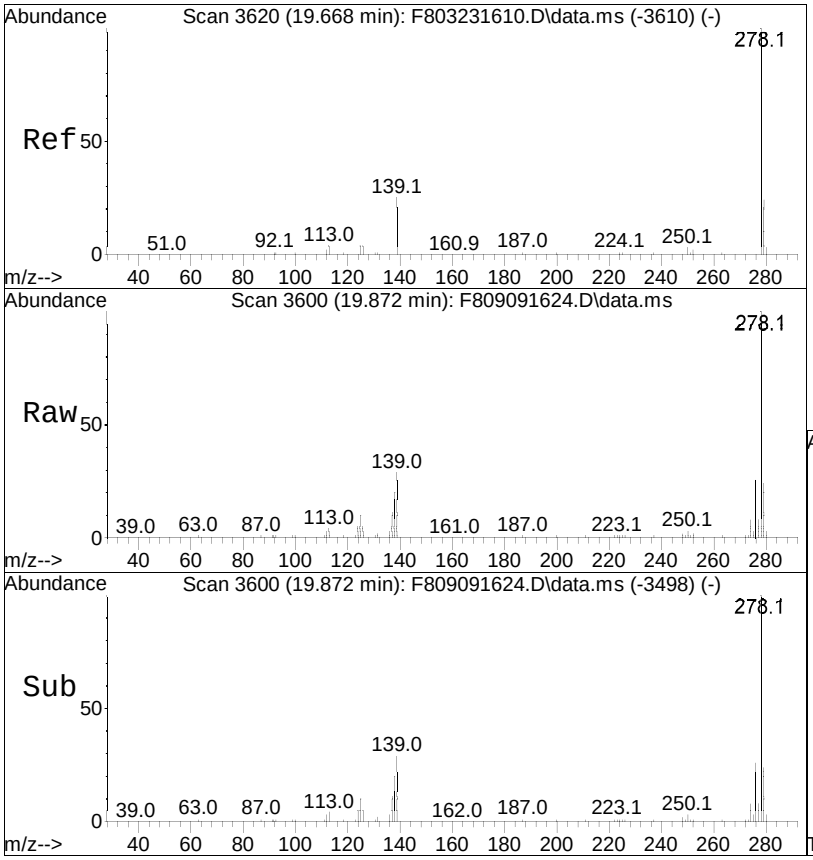


#90
Indeno[1,2,3-cd]pyrene
Concen: 10.66 ug/mL
RT: 19.824 min Scan# 3590
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:276 Resp: 1257033

Ion	Ratio	Lower	Upper
276	100		
138	36.0	28.2	42.2
277	24.1	19.4	29.0

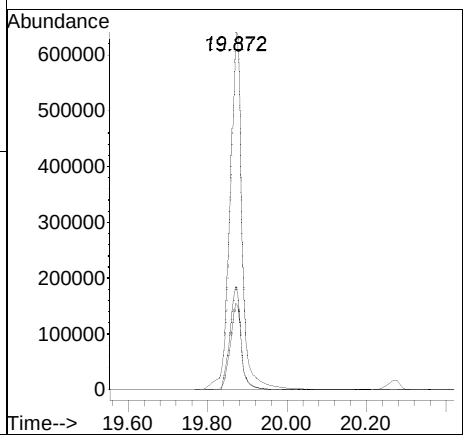


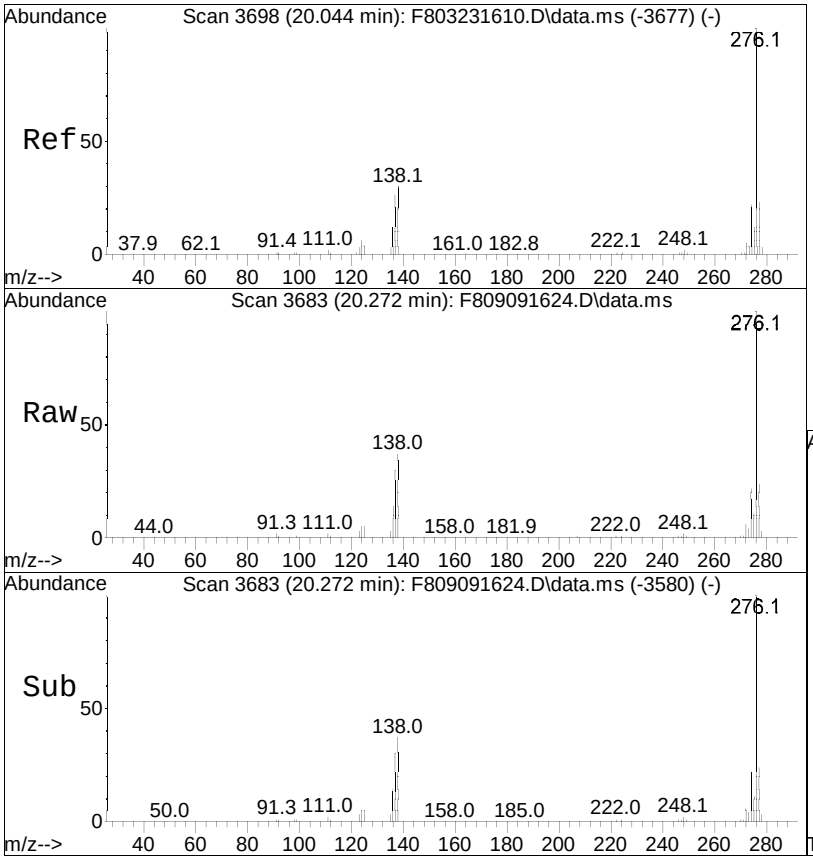


#91
Dibenz[a,h]anthracene
Concen: 11.46 ug/mL
RT: 19.872 min Scan# 3600
Delta R.T. -0.010 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:278 Resp: 1361761

Ion	Ratio	Lower	Upper
278	100		
139	27.2	23.4	35.0
279	23.0	19.4	29.0

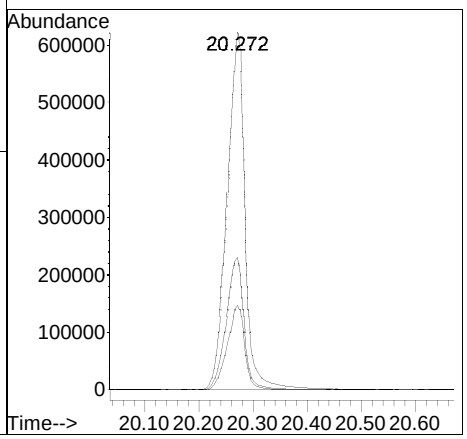




#92
Benzo[g,h,i]perylene
Concen: 11.02 ug/mL
RT: 20.272 min Scan# 3683
Delta R.T. -0.005 min
Lab File: F809091624.D
Acq: 9 Sep 2016 11:18 pm

Tgt Ion:276 Resp: 1405569

Ion	Ratio	Lower	Upper
276	100		
138	36.0	31.4	47.2
277	24.3	19.4	29.0



Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091627.D
Acq On : 10 Sep 2016 12:49 am
Operator : BNA8:ML
Sample : WG929407-7
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 12 14:38:14 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	245093	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	897958	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	476043	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	787655	5.000	ug/mL	0.00
76) Chrysene-d12	14.922	240	719910	5.000	ug/mL	0.00
85) Perylene-d12	17.999	264	661859	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.832	112	560044	9.514	ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 47.57%			
8) Phenol-d5	4.550	99	763136	10.702	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 53.51%			
22) Nitrobenzene-d5	5.373	82	544250M4	10.387	ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 51.93%			
43) 2-Fluorobiphenyl	7.078	172	1634974	13.611	ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 68.05%			
65) 2,4,6-Tribromophenol	8.647	330	230088	19.861	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 99.30%			
79) Terphenyl-d14	12.586	244	2142116	19.022	ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 95.11%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.932	74	169423	5.755	ug/mL#	97
3) Pyridine	2.961	79	261154M4	4.546	ug/mL	
5) Benzaldehyde	4.511	77	158983	3.459	ug/ml	100
6) Aniline	4.598	93	429080	4.960	ug/ml	99
7) bis(2-Chloroethyl)ether	4.641	63	184397	5.022	ug/mL	97
9) Phenol	4.559	94	419987	5.747	ug/mL#	87
10) 2-Chlorophenol	4.699	128	338893	5.116	ug/mL	99
11) 1,3-Dichlorobenzene	4.829	146	367456	5.028	ug/mL	100
12) 1,4-Dichlorobenzene	4.891	146	366409	5.040	ug/mL	99
13) 1,2-Dichlorobenzene	5.026	146	350489	5.074	ug/mL	100
14) Benzyl alcohol	4.993	108	246441	6.257	ug/mL	99
15) bis(2-chloroisopropyl)eth	5.108	45	262834	5.157	ug/mL#	64
16) 2-Methylphenol	5.084	108	296837M4	5.769	ug/mL	
17) Acetophenone	5.233	105	394431	5.017	ug/ml#	75
18) Hexachloroethane	5.330	117	128400	4.837	ug/mL	93
19) N-Nitroso-di-n-propylamin	5.229	70	229043	6.375	ug/mL	95
20) 4-Methylphenol	5.224	108	342843	6.168	ug/mL	98

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091627.D
Acq On : 10 Sep 2016 12:49 am
Operator : BNA8:ML
Sample : WG929407-7
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 12 14:38:14 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Nitrobenzene	5.392	77	284903	5.470	ug/mL	95
24) Isophorone	5.609	82	634022	7.565	ug/mL	96
25) 2-Nitrophenol	5.681	139	200938	5.901	ug/mL#	88
26) 2,4-Dimethylphenol	5.715	107	277149	5.118	ug/mL	97
27) Benzoic acid	5.874	105	779255M4	29.723	ug/mL	
28) bis(2-Chloroethoxy)methan	5.802	93	402064	6.622	ug/mL	98
29) 2,4-Dichlorophenol	5.907	162	331340	6.688	ug/mL	99
30) 1,2,4-Trichlorobenzene	5.985	180	285444	5.307	ug/mL	99
31) Naphthalene	6.066	128	948069	5.494	ug/mL	99
32) 2-Chloroaniline	5.652	127	517270	5.945	ug/ml	99
33) 4-Chloroaniline	6.115	127	508227M4	6.841	ug/mL	
34) Hexachlorobutadiene	6.172	225	136525	4.993	ug/mL	100
35) Caprolactam	6.466	113	164717	10.268	ug/ml	100
36) 4-Chloro-3-methylphenol	6.577	107	398899	8.358	ug/mL	99
37) 2-Methylnaphthalene	6.726	142	765816	6.542	ug/mL	99
39) 1,2,4,5-Tetrachlorobenzen	6.885	216	337102	6.796	ug/mL	100
40) Hexachlorocyclopentadiene	6.871	237	98293	4.654	ug/mL	96
41) 2,4,6-Trichlorophenol	6.996	196	295122	8.257	ug/mL	99
42) 2,4,5-Trichlorophenol	7.034	196	285407M6	8.986	ug/mL	
44) Biphenyl	7.174	154	907969	6.609	ug/ml	99
45) 2-Chloronaphthalene	7.198	162	773726	7.198	ug/mL	99
46) 2-Nitroaniline	7.299	65	225664	9.081	ug/mL	99
47) Acenaphthylene	7.607	152	1394658	7.847	ug/mL	99
48) Dimethylphthalate	7.472	163	1076580	9.311	ug/mL	100
49) 2,6-Dinitrotoluene	7.535	165	255370	9.508	ug/mL	91
50) Acenaphthene	7.785	153	860872	7.961	ug/mL	98
51) 3-Nitroaniline	7.713	138	289655	9.425	ug/mL	98
52) 2,4-Dinitrophenol	7.814	184	101450	8.368	ug/mL#	62
53) Dibenzofuran	7.968	168	1180672	8.363	ug/mL	98
54) 2,3,4,6-Tetrachlorophenol	8.098	232	224241	10.470	ug/mL	97
55) 2,4-Dinitrotoluene	7.954	165	357213	10.368	ug/mL	92
56) 4-Nitrophenol	7.891	109	117184M4	10.067	ug/mL	
57) Fluorene	8.354	166	1012834	8.709	ug/mL	100
58) 4-Chlorophenyl-phenylethe	8.349	204	456671	8.771	ug/mL	99
59) Diethylphthalate	8.219	149	1169844	9.899	ug/mL	100
60) 4-Nitroaniline	8.387	138	323135	10.179	ug/mL	95
62) 4,6-Dinitro-2-methylpheno	8.411	198	171063M4	9.524	ug/mL	
63) Azobenzene	8.541	182	297633	9.314	ug/mL	74
64) n-Nitrosodiphenylamine	8.493	169	831731	9.936	ug/mL	99
66) 4-Bromophenyl-phenylether	8.960	248	267845M4	9.162	ug/mL	
67) Hexachlorobenzene	9.037	284	285823	9.352	ug/mL	97

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091627.D
Acq On : 10 Sep 2016 12:49 am
Operator : BNA8:ML
Sample : WG929407-7
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 12 14:38:14 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) Atrazine	9.196	200	254150	7.871	ug/ml	100
69) Pentachlorophenol	9.322	266	163204M4	9.750	ug/mL	
70) Pentachloronitrobenzene	9.331	237	124438	10.222	ug/ml	91
71) Phenanthrene	9.635	178	1619636	9.459	ug/mL	99
72) Anthracene	9.712	178	1541027	9.111	ug/mL	99
73) Carbazole	9.976	167	1662654	10.235	ug/mL	99
74) Di-n-butylphthalate	10.598	149	1977798	10.065	ug/mL	99
75) Fluoranthene	11.729	202	1714667	9.685	ug/mL	95
77) Benzidine	12.057	184	721031	6.066	ug/mL	99
78) Pyrene	12.182	202	1770523	9.854	ug/mL	97
80) Butylbenzylphthalate	13.766	149	936378	10.621	ug/mL	96
81) 3,3'-Dichlorobenzidine	14.931	252	489007	8.294	ug/mL	98
82) Benz[a]anthracene	14.902	228	1680242	9.863	ug/mL	99
83) Chrysene	14.989	228	1628511M4	10.297	ug/mL	
84) bis(2-Ethylhexyl)phthalat	15.230	149	1247836	10.757	ug/mL	99
86) Di-n-octylphthalate	16.727	149	2223219	10.574	ug/mL	99
87) Benzo[b]fluoranthene	17.272	252	1566477	9.693	ug/mL	99
88) Benzo[k]fluoranthene	17.329	252	1541154M4	10.433	ug/mL	
89) Benzo[a]pyrene	17.893	252	1497308M4	9.835	ug/mL	
90) Indeno[1,2,3-cd]pyrene	19.824	276	1322244	9.988	ug/mL	99
91) Dibenz[a,h]anthracene	19.877	278	1390769	10.426	ug/mL	97
92) Benzo[g,h,i]perylene	20.276	276	1393573	9.733	ug/mL	98

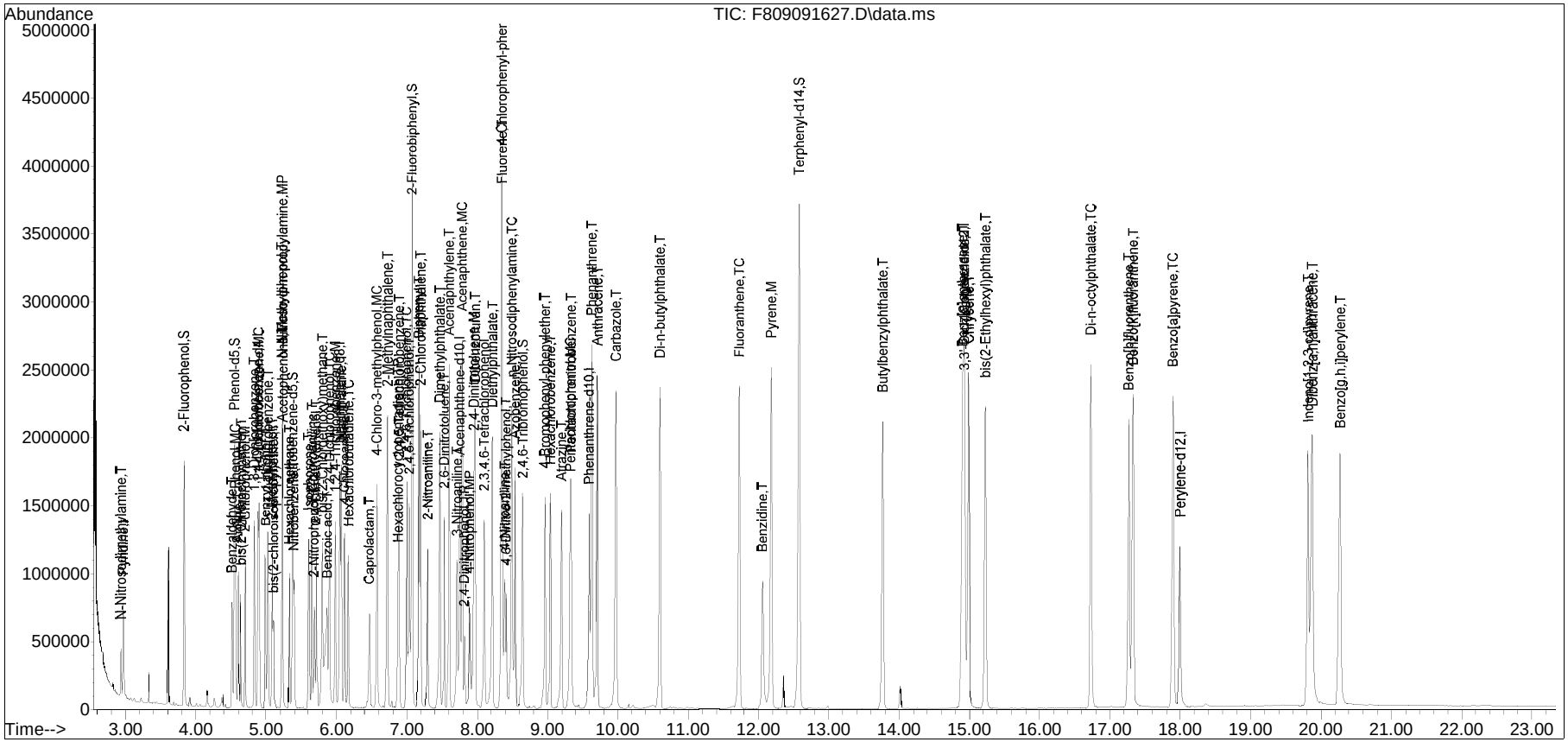
(#) = qualifier out of range (m) = manual integration (+) = signals summed

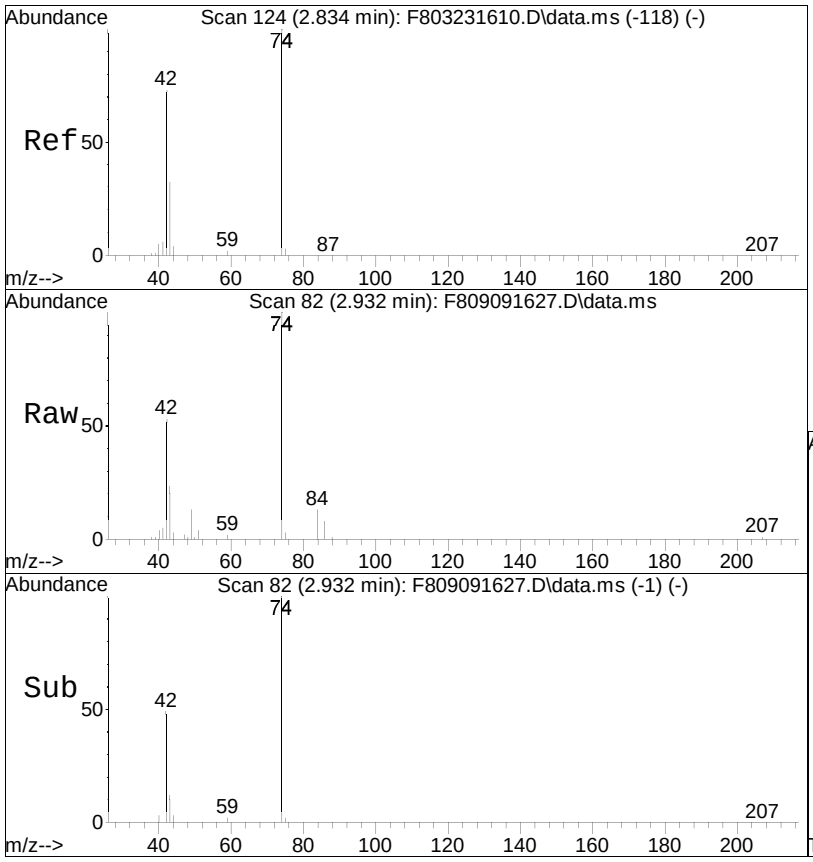
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091627.D
Acq On : 10 Sep 2016 12:49 am
Operator : BNA8:ML
Sample : WG929407-7
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 12 14:38:14 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

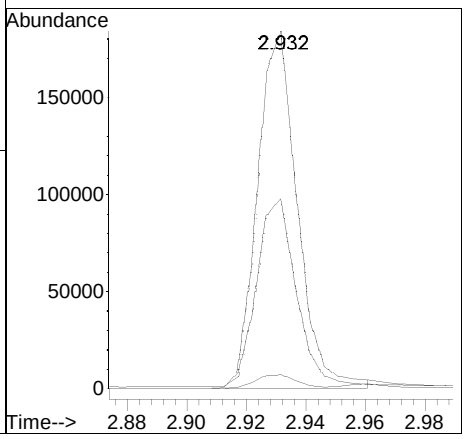


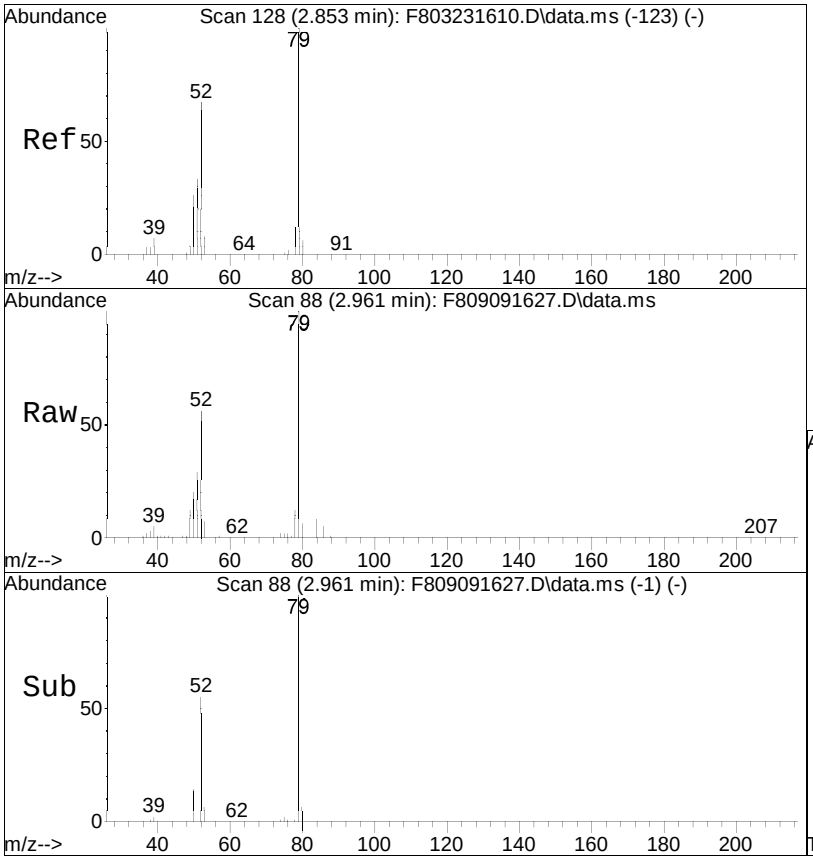


#2
N-Nitrosodimethylamine
Concen: 5.76 ug/mL
RT: 2.932 min Scan# 82
Delta R.T. -0.014 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion: 74 Resp: 169423

Ion	Ratio	Lower	Upper
74	100		
42	52.6	43.8	65.6
40	4.0	4.2	6.4#

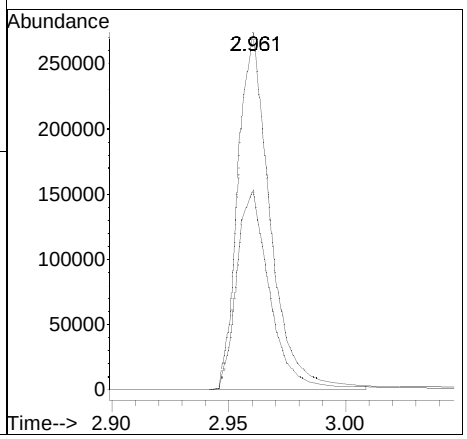


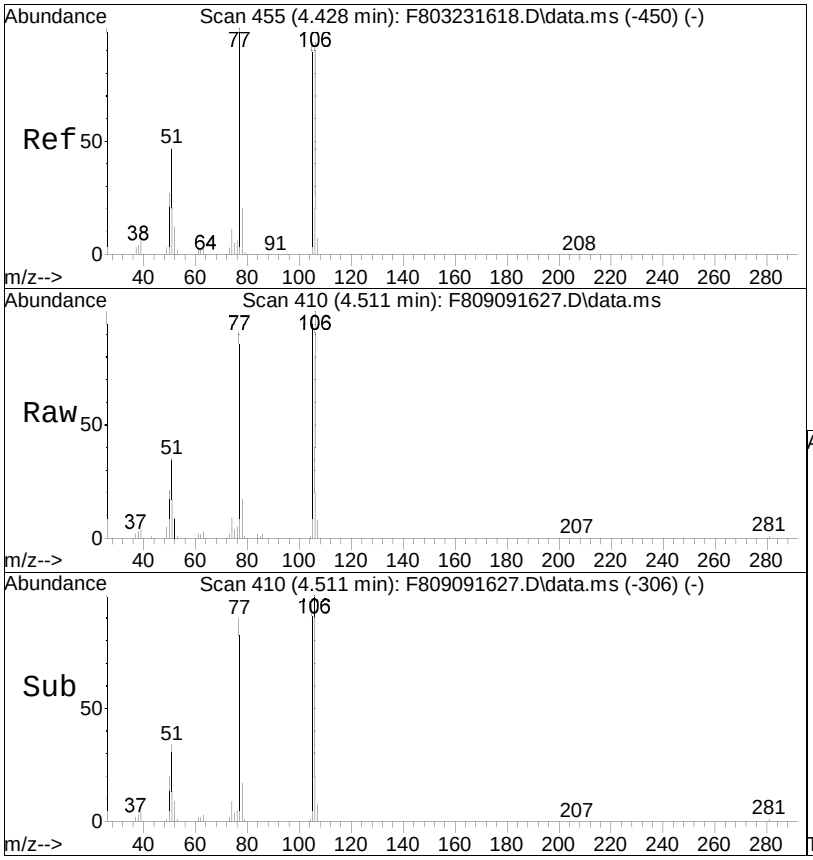


#3
Pyridine
Concen: 4.55 ug/mL M4
RT: 2.961 min Scan# 88
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion: 79 Resp: 261154

Ion	Ratio	Lower	Upper
79	100		
52	56.1	46.6	69.8

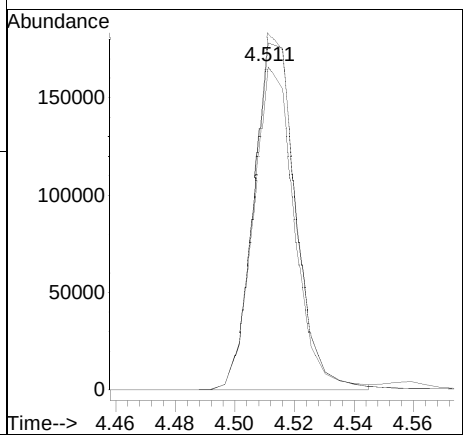


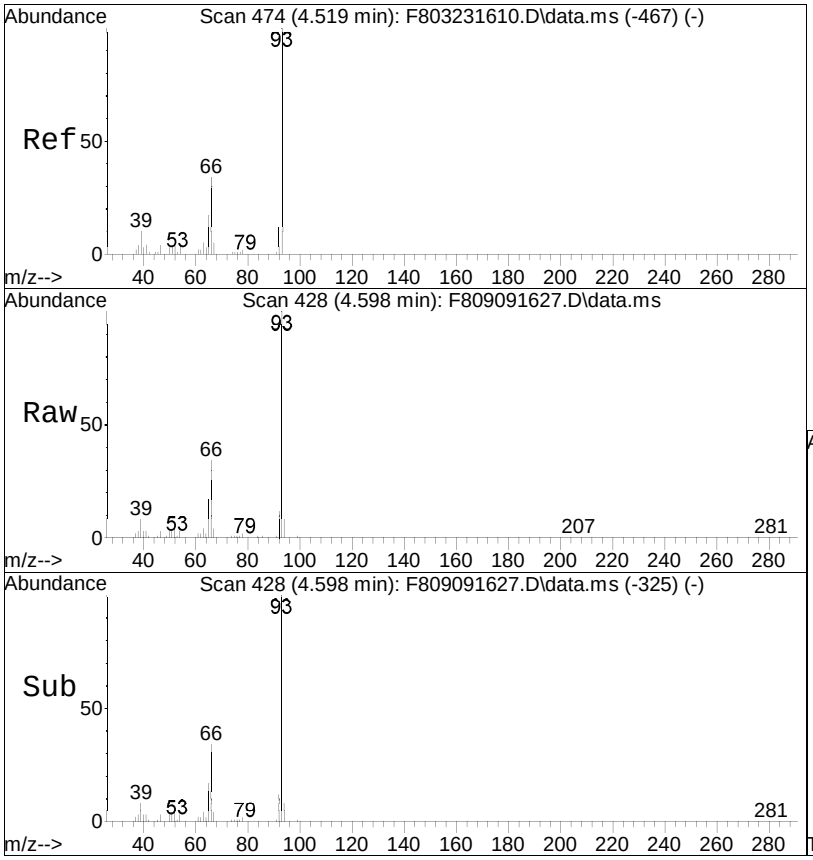


#5
Benzaldehyde
Concen: 3.46 ug/ml
RT: 4.511 min Scan# 410
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion: 77 Resp: 158983

Ion	Ratio	Lower	Upper
77	100		
105	110.0	88.1	132.1
106	111.5	89.8	134.8

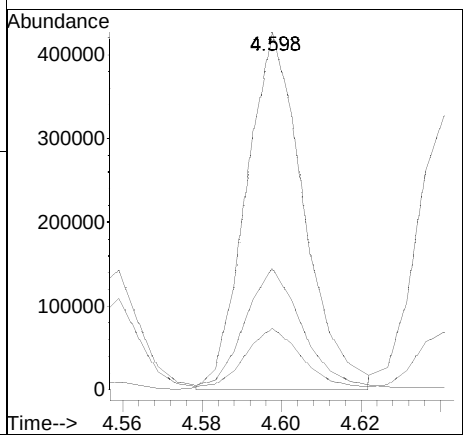


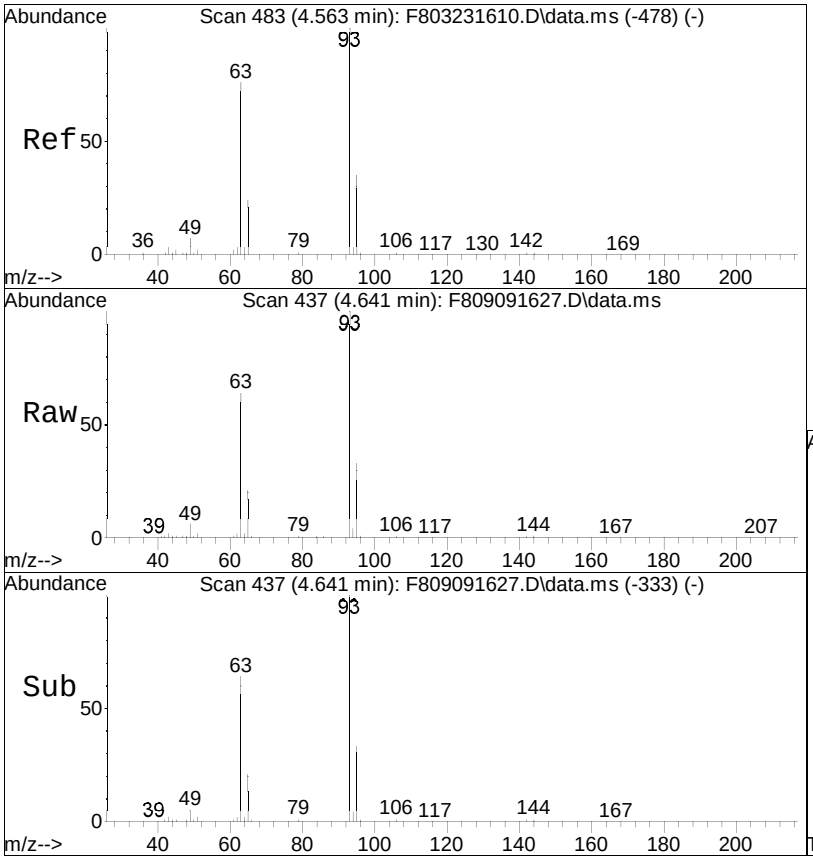


#6
Aniline
Concen: 4.96 ug/ml
RT: 4.598 min Scan# 428
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion: 93 Resp: 429080

Ion	Ratio	Lower	Upper
93	100		
66	33.0	26.7	40.1
65	17.4	14.2	21.4

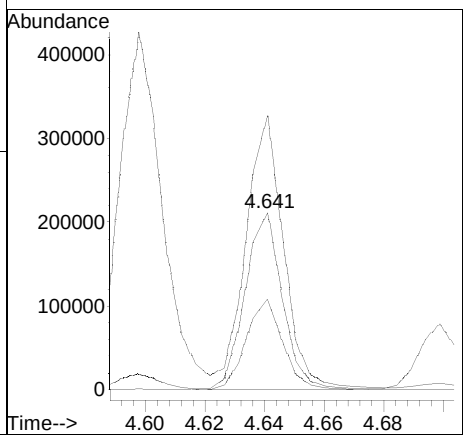


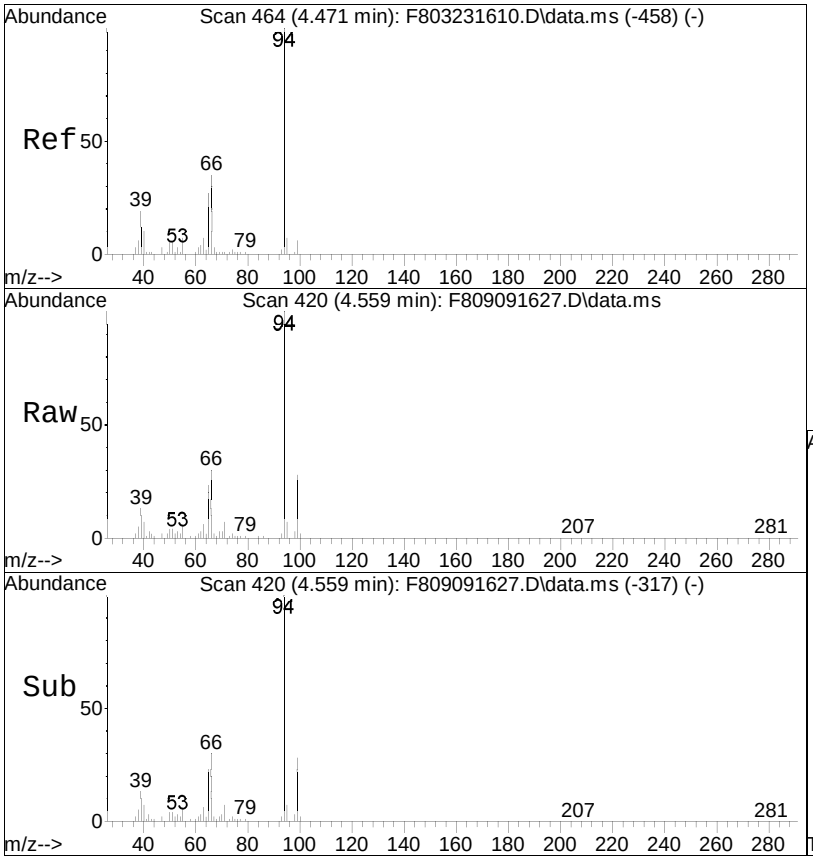


#7
bis(2-Chloroethyl)ether
Concen: 5.02 ug/mL
RT: 4.641 min Scan# 437
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion: 63 Resp: 184397

Ion	Ratio	Lower	Upper
63	100		
93	158.8	123.0	184.4
95	50.5	41.1	61.7

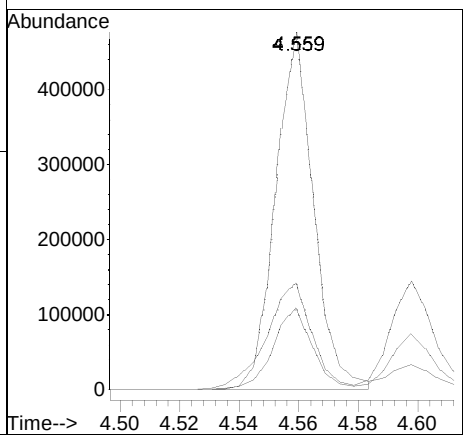


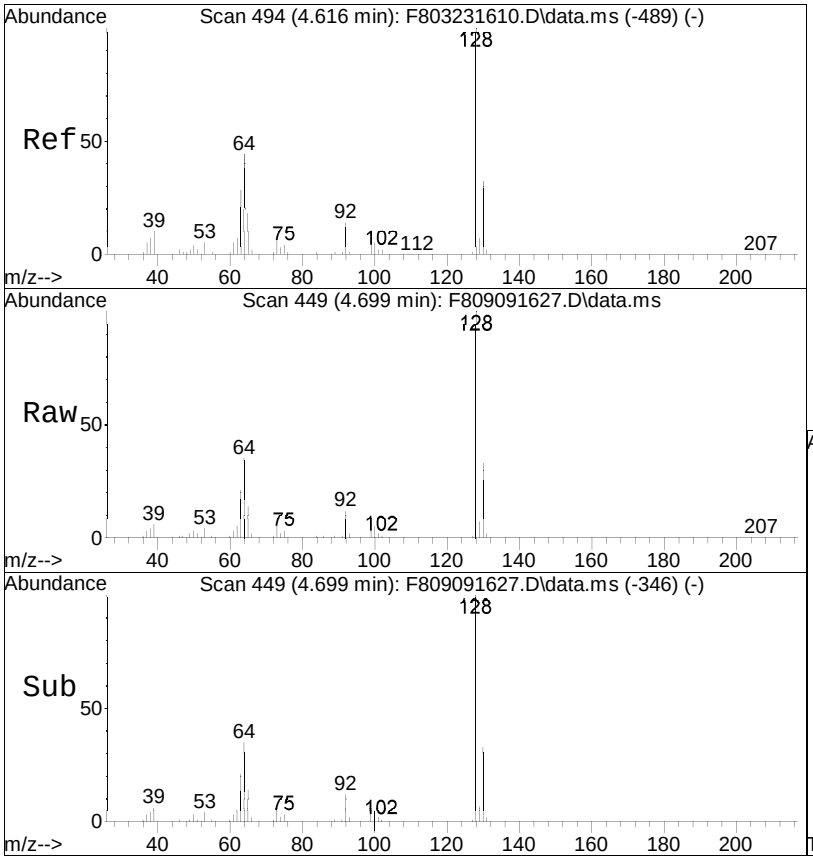


#9
Phenol
Concen: 5.75 ug/mL
RT: 4.559 min Scan# 420
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion: 94 Resp: 419987

Ion	Ratio	Lower	Upper
94	100		
66	36.7	21.7	32.5#
65	24.4	17.6	26.4

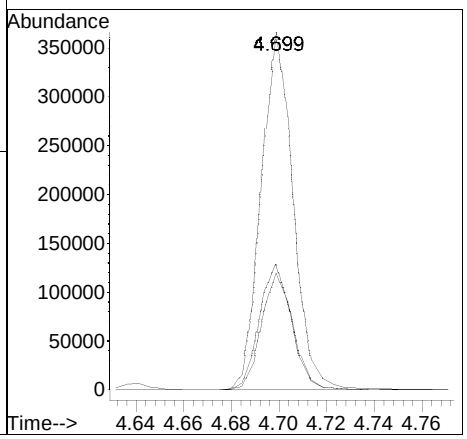


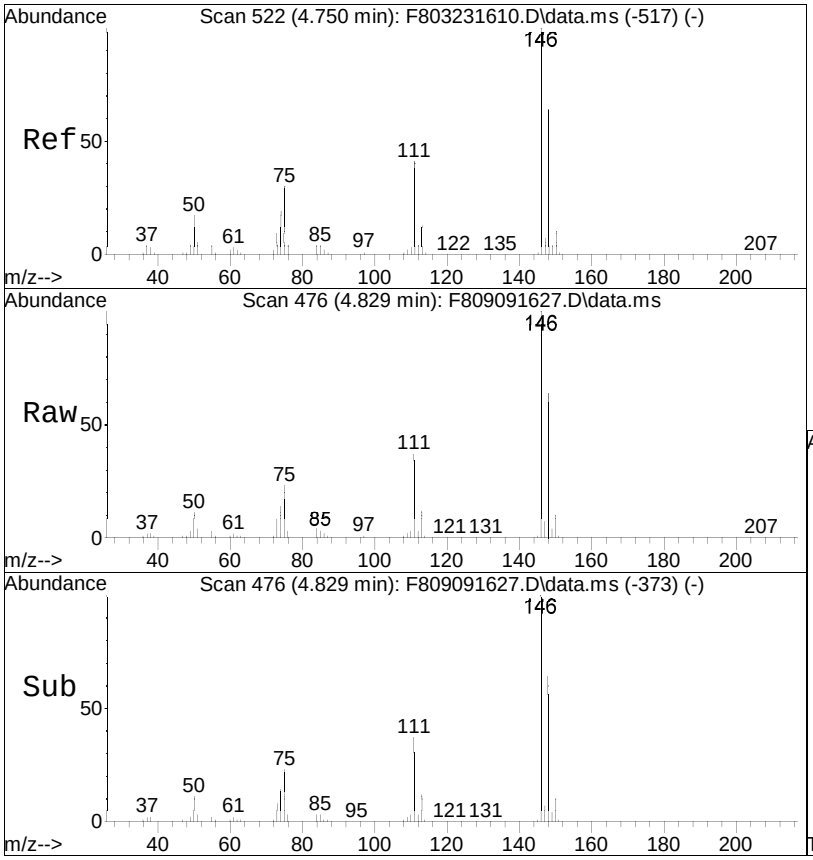


#10
2-Chlorophenol
Concen: 5.12 ug/mL
RT: 4.699 min Scan# 449
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:128 Resp: 338893

Ion	Ratio	Lower	Upper
128	100		
64	35.5	27.6	41.4
130	32.6	26.2	39.4

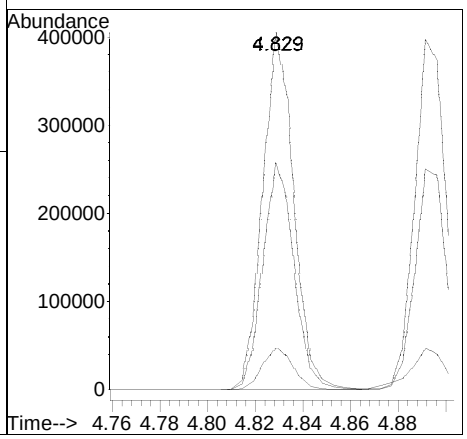


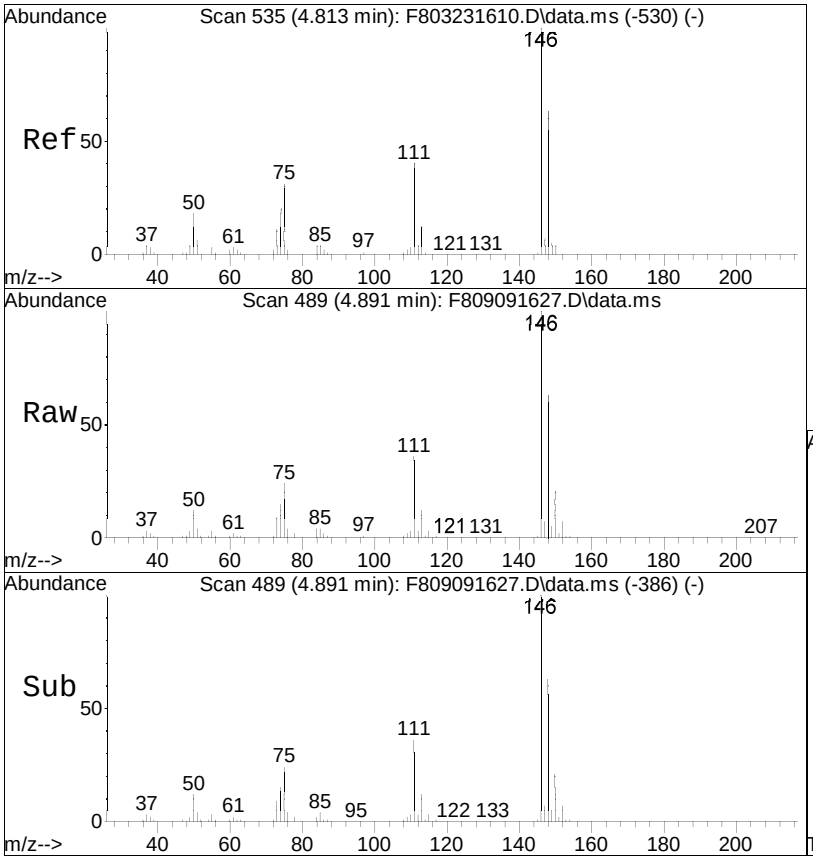


#11
1,3-Dichlorobenzene
Concen: 5.03 ug/mL
RT: 4.829 min Scan# 476
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:146 Resp: 367456

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.0	76.6
113	11.7	9.7	14.5

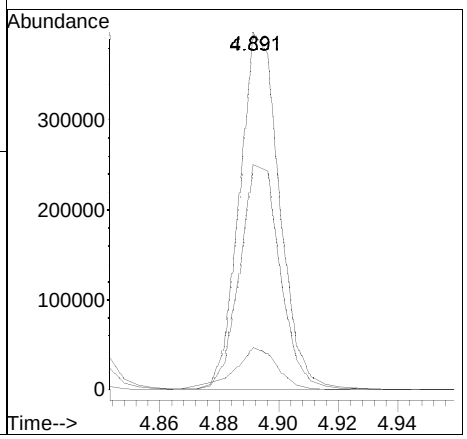


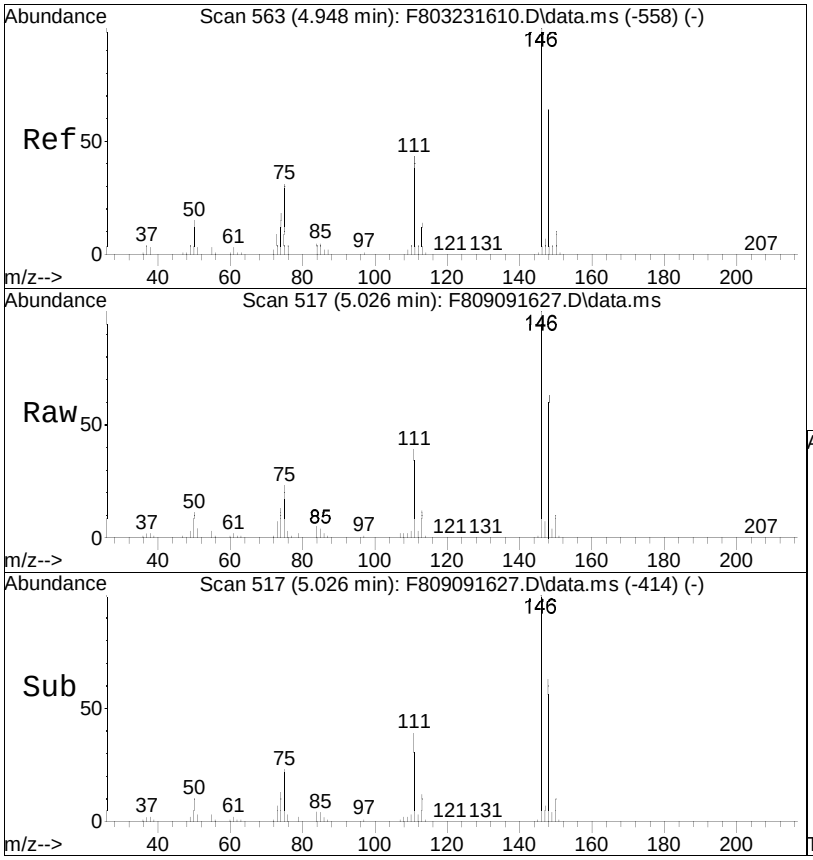


#12
1,4-Dichlorobenzene
Concen: 5.04 ug/mL
RT: 4.891 min Scan# 489
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:146 Resp: 366409

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.2	76.8
113	13.2	9.1	13.7

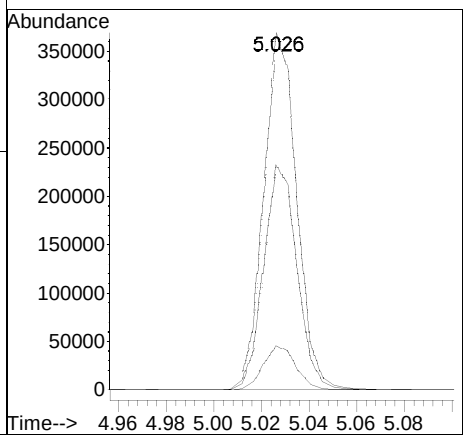


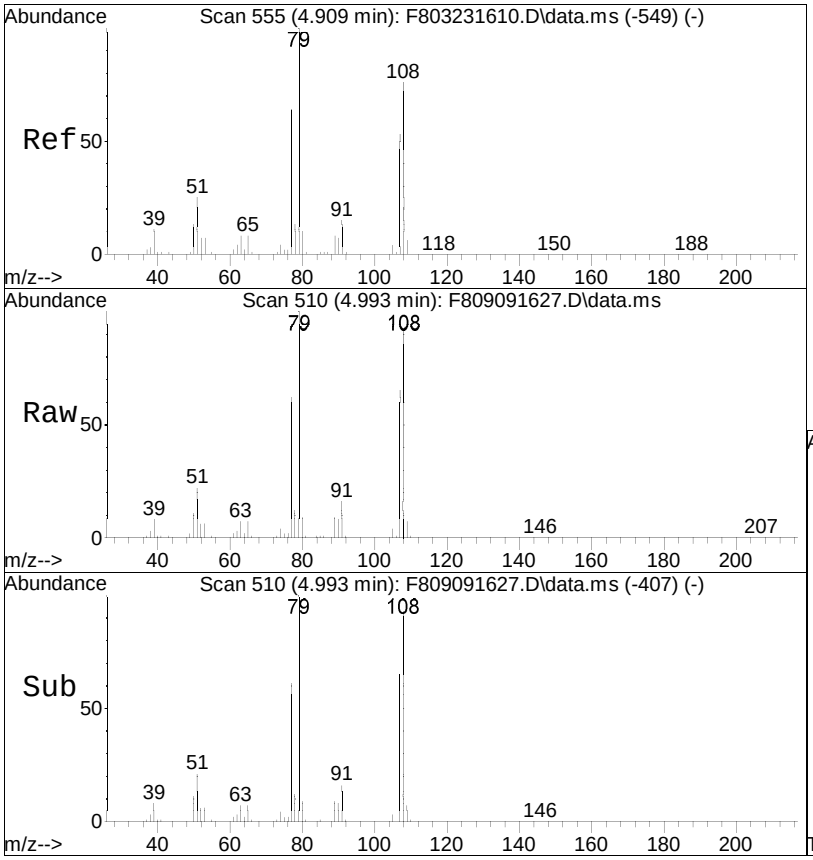


#13
1,2-Dichlorobenzene
Concen: 5.07 ug/mL
RT: 5.026 min Scan# 517
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:146 Resp: 350489

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.0	76.6
113	12.4	10.0	15.0

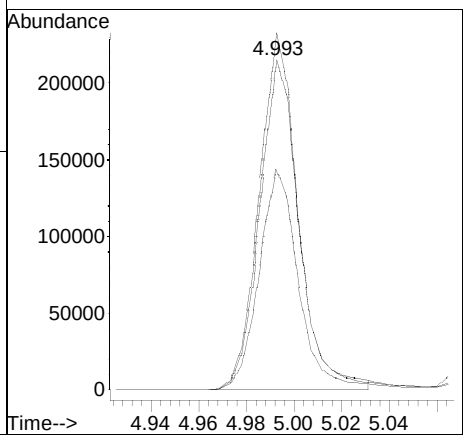


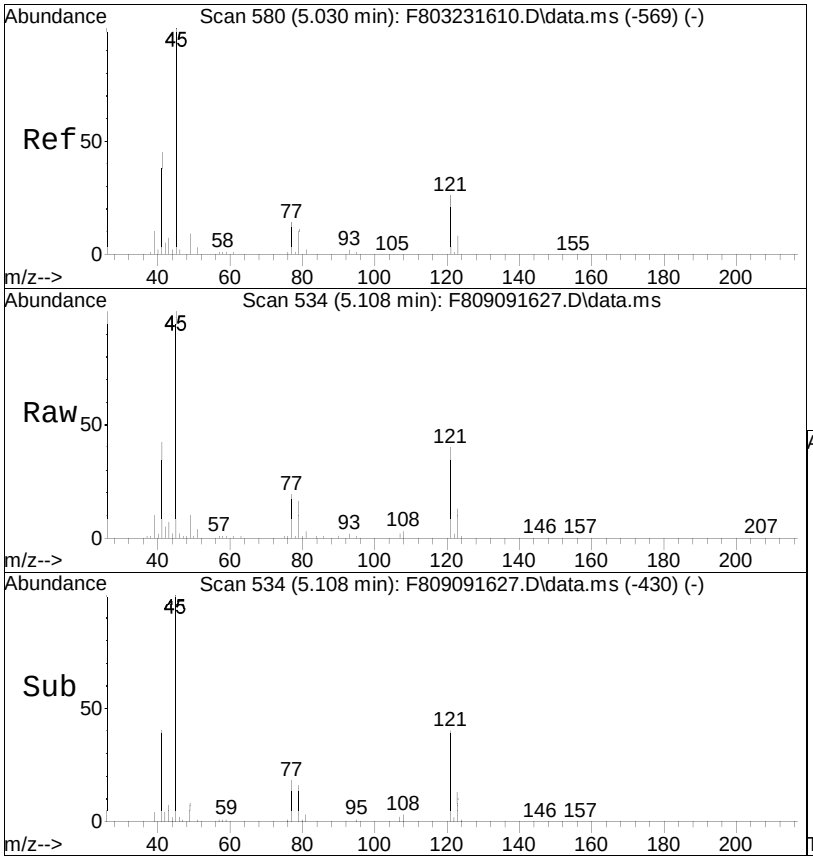


#14
Benzyl alcohol
Concen: 6.26 ug/mL
RT: 4.993 min Scan# 510
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:108 Resp: 246441

Ion	Ratio	Lower	Upper
108	100		
79	106.7	84.5	126.7
77	66.7	52.9	79.3

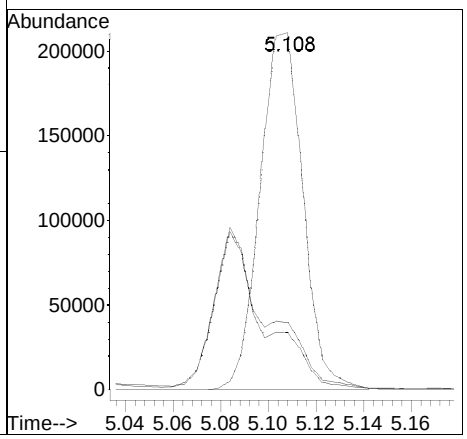


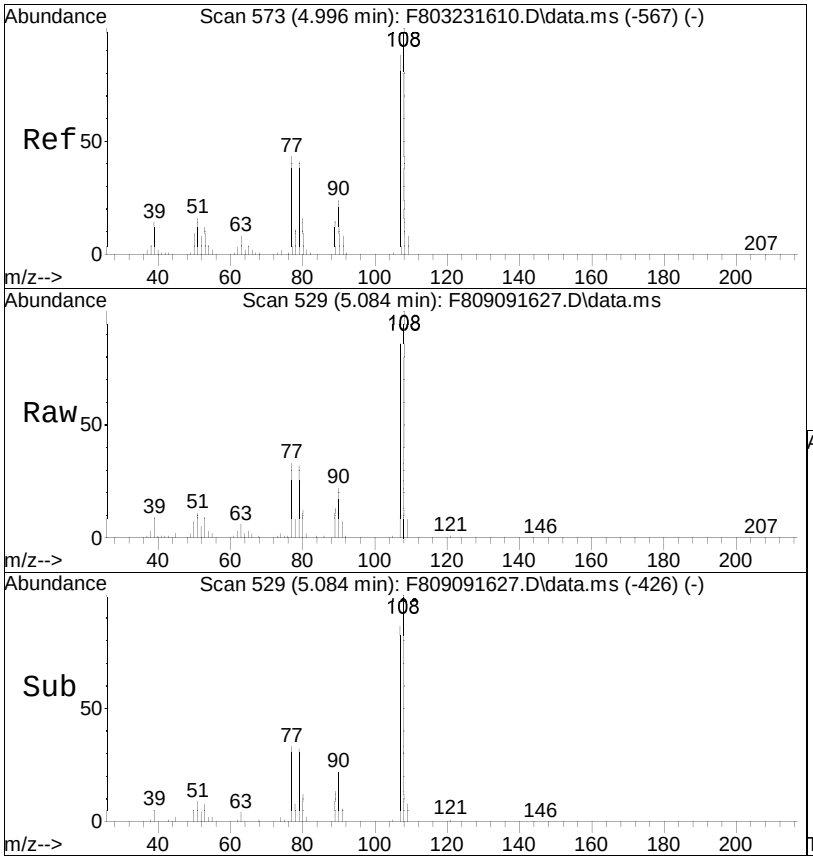


#15
bis(2-chloroisopropyl)ether
Concen: 5.16 ug/mL
RT: 5.108 min Scan# 534
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion: 45 Resp: 262834

Ion	Ratio	Lower	Upper
45	100		
77	0.0	13.2	19.8#
79	0.0	10.9	16.3#

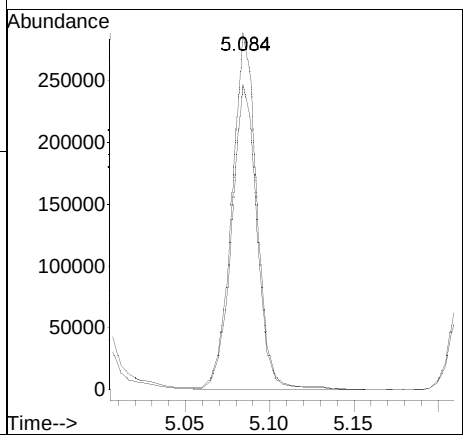


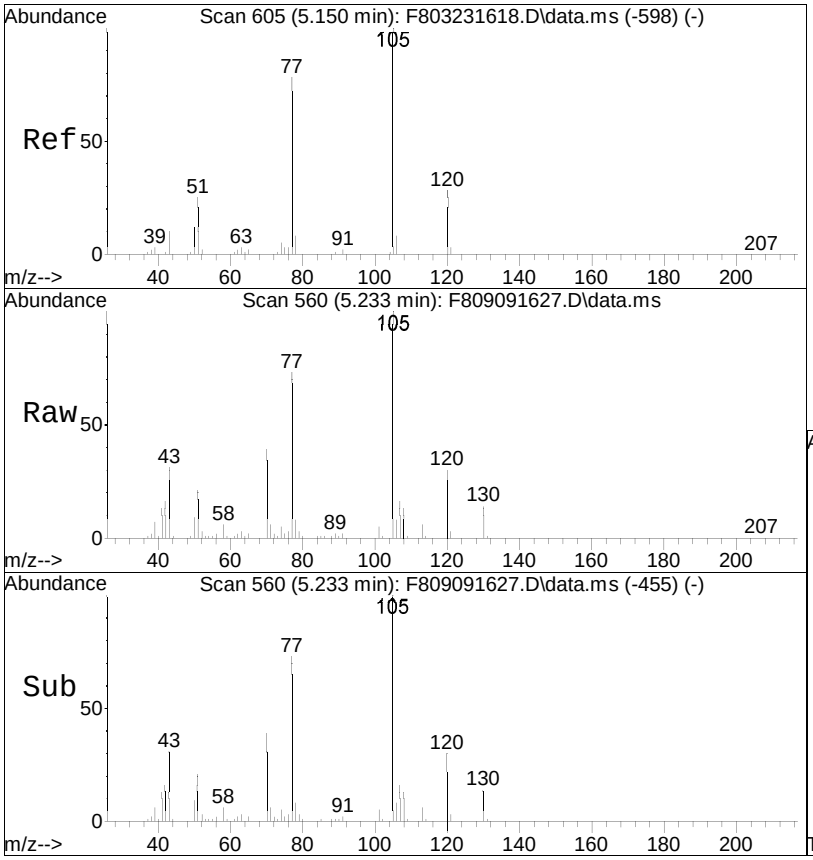


#16
2-Methylphenol
Concen: 5.77 ug/mL M4
RT: 5.084 min Scan# 529
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:108 Resp: 296837

Ion	Ratio	Lower	Upper
108	100		
107	84.4	68.1	102.1

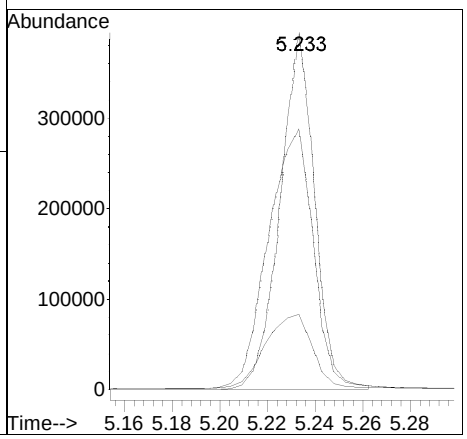


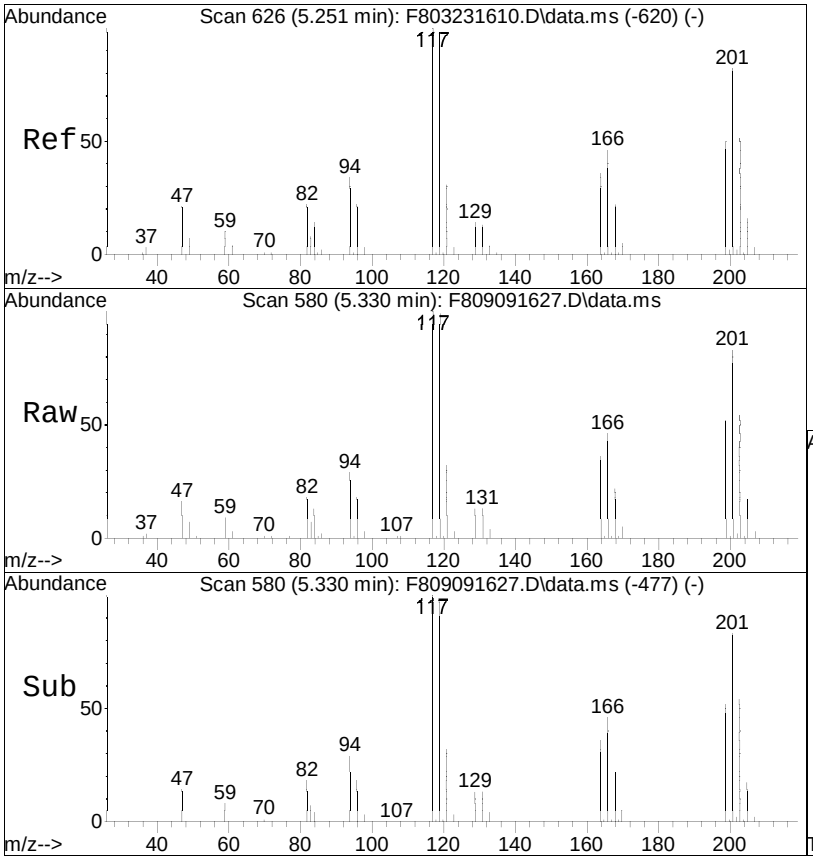


#17
Acetophenone
Concen: 5.02 ug/ml
RT: 5.233 min Scan# 560
Delta R.T. 0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:105 Resp: 394431

Ion	Ratio	Lower	Upper
105	100		
77	95.0	57.7	86.5#
51	28.6	17.1	25.7#

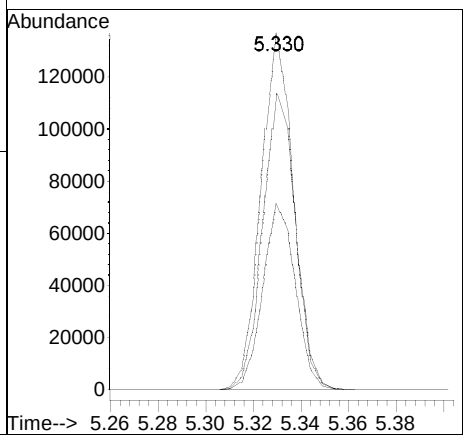


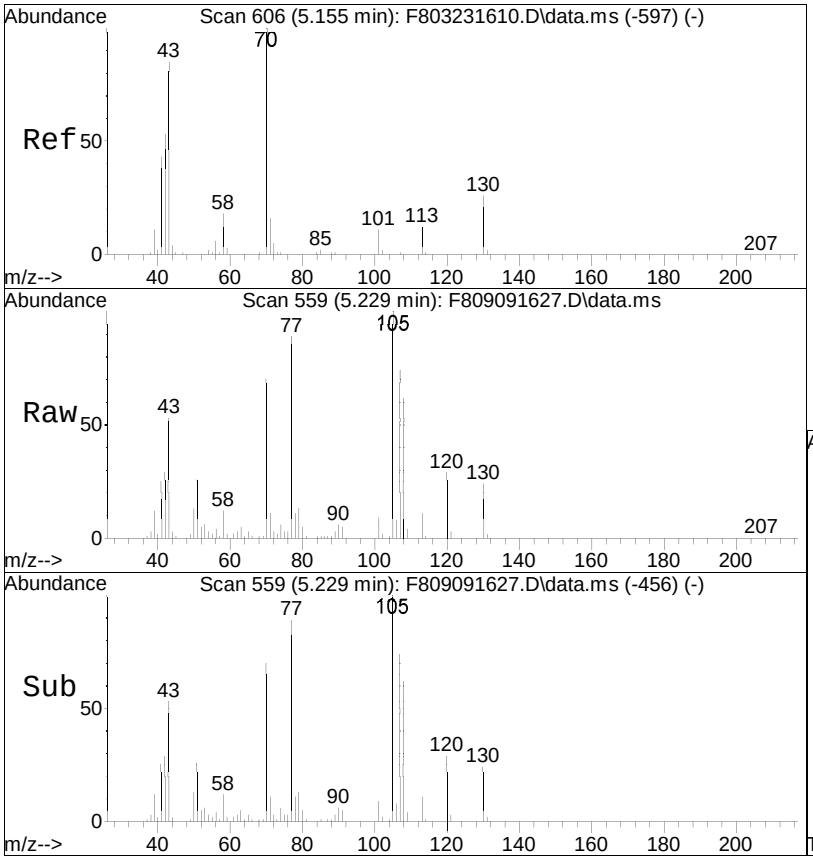


#18
Hexachloroethane
Concen: 4.84 ug/mL
RT: 5.330 min Scan# 580
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:117 Resp: 128400

Ion	Ratio	Lower	Upper
117	100		
201	84.9	62.8	94.2
199	52.9	39.0	58.4

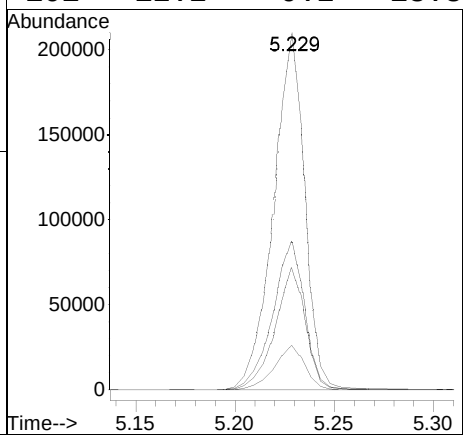


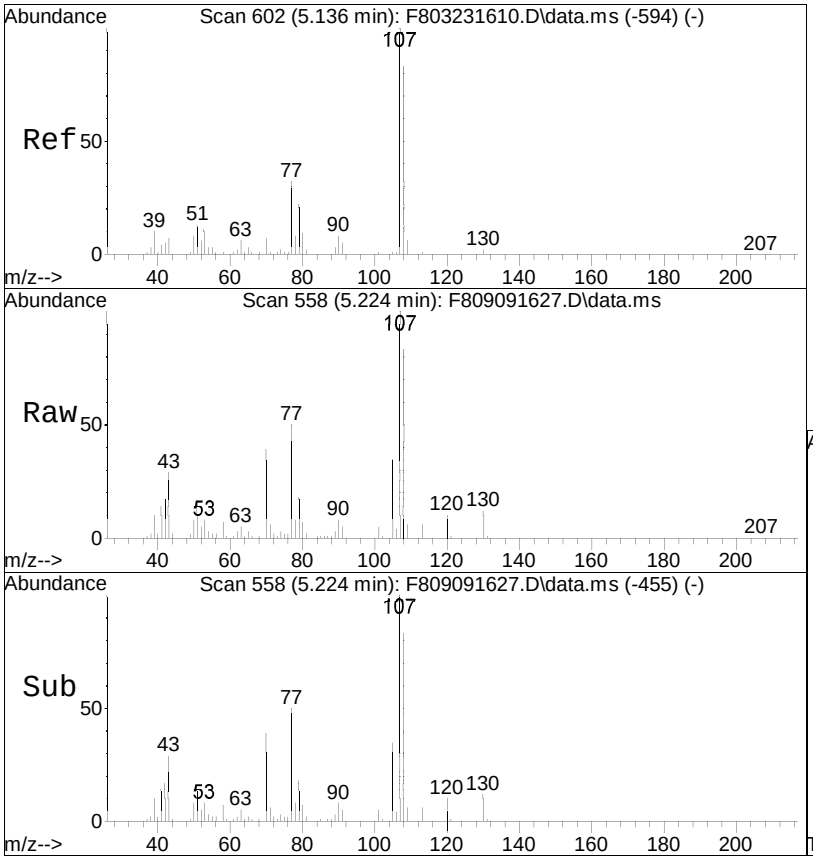


#19
N-Nitroso-di-n-propylamine
Concen: 6.37 ug/mL
RT: 5.229 min Scan# 559
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion: 70 Resp: 229043

Ion	Ratio	Lower	Upper
70	100		
42	42.8	37.1	55.7
130	33.5	24.0	36.0
101	12.2	9.2	13.8

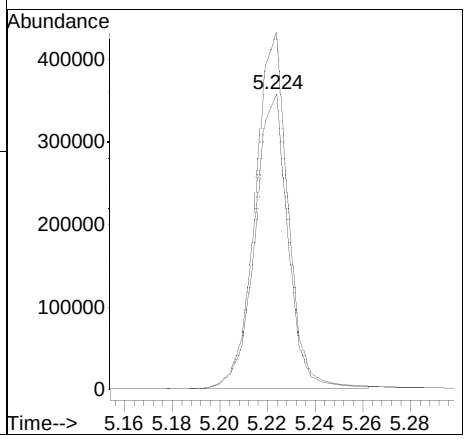


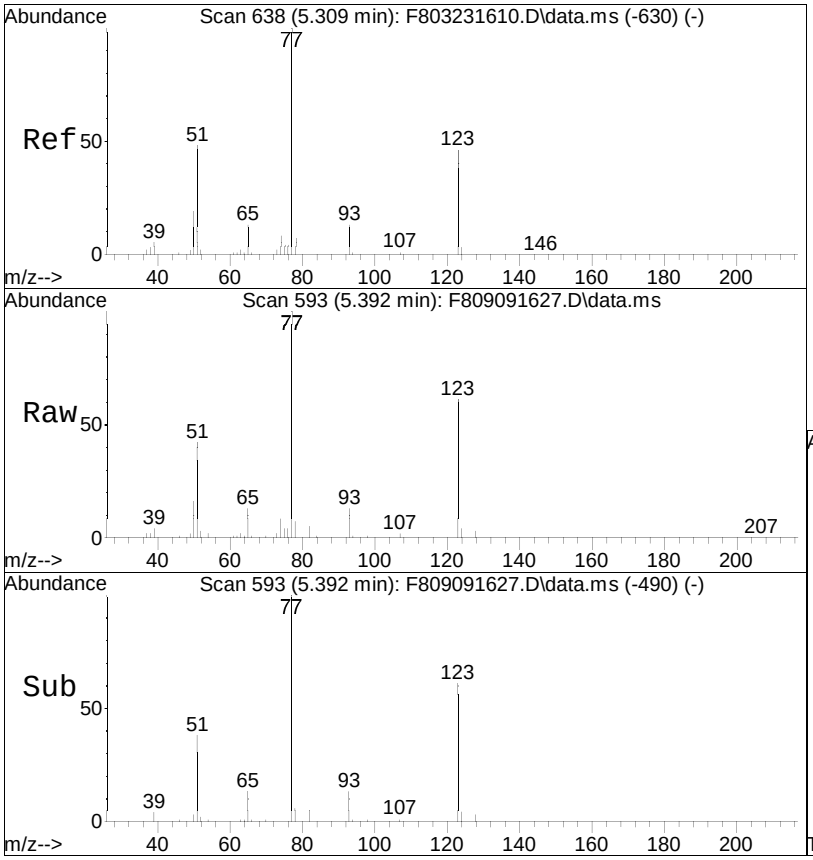


#20
4-Methylphenol
Concen: 6.17 ug/mL
RT: 5.224 min Scan# 558
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:108 Resp: 342843

Ion	Ratio	Lower	Upper
108	100		
107	120.4	94.6	142.0

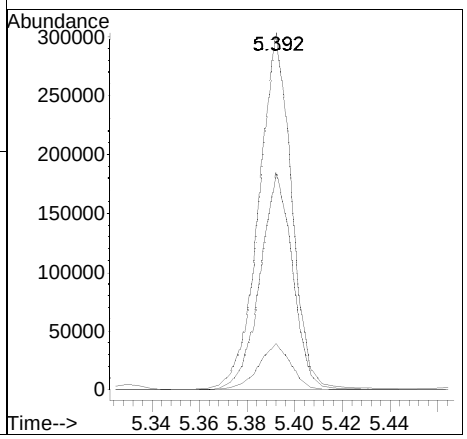


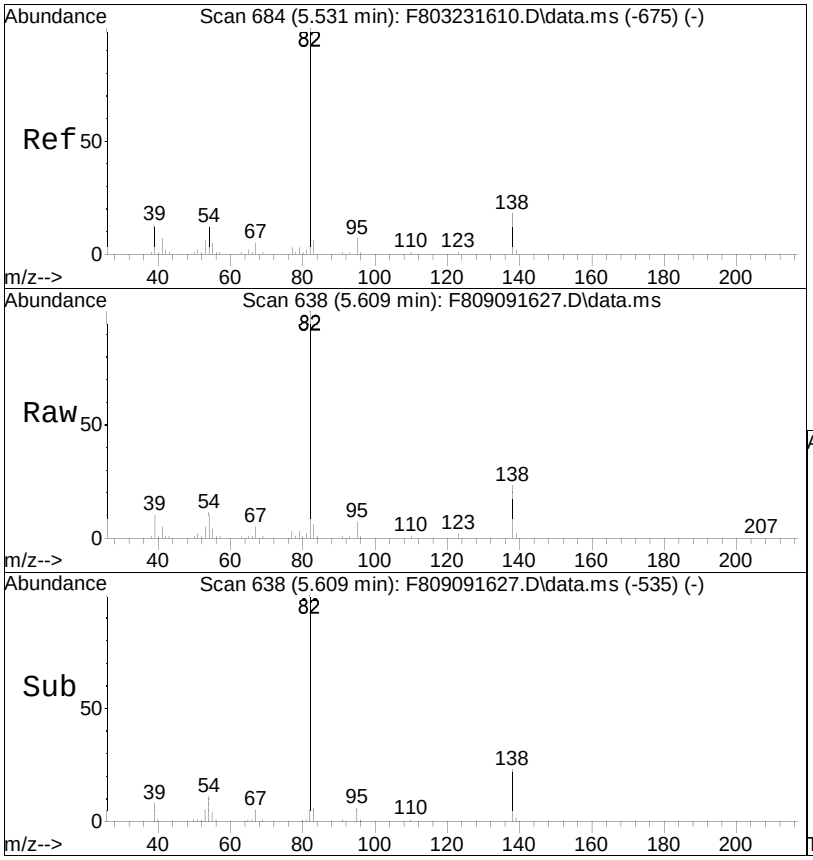


#23
Nitrobenzene
Concen: 5.47 ug/mL
RT: 5.392 min Scan# 593
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion: 77 Resp: 284903

Ion	Ratio	Lower	Upper
77	100		
123	61.2	45.4	68.2
65	13.2	10.2	15.4

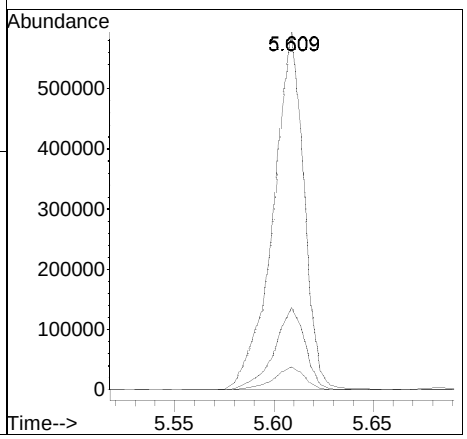


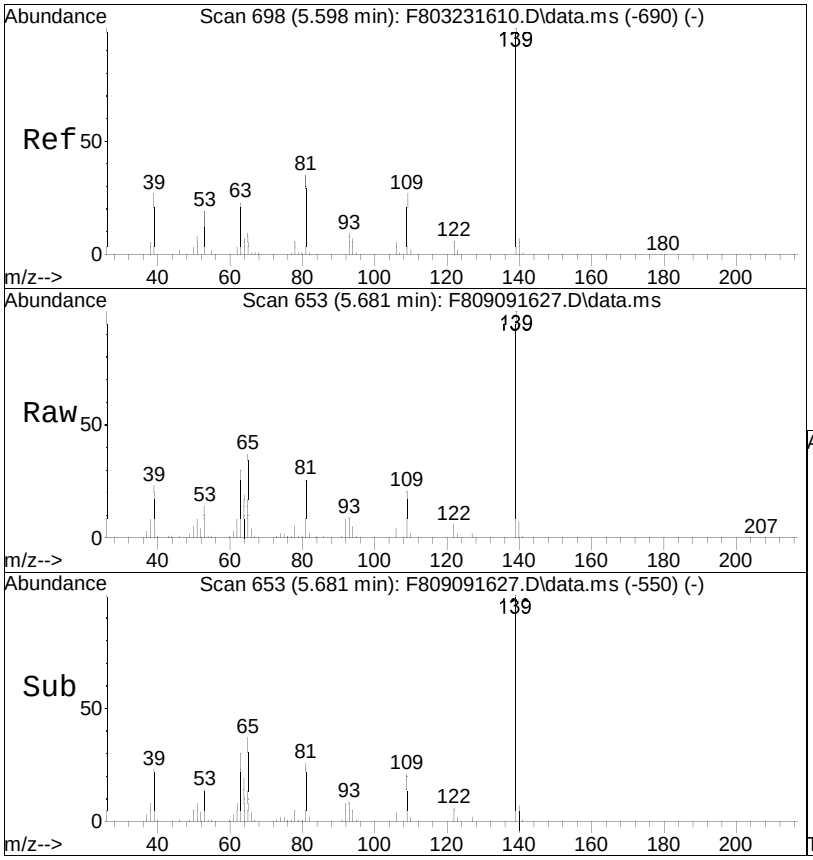


#24
Isophorone
Concen: 7.56 ug/mL
RT: 5.609 min Scan# 638
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion: 82 Resp: 634022

Ion	Ratio	Lower	Upper
82	100		
138	23.2	17.0	25.4
95	6.5	4.9	7.3

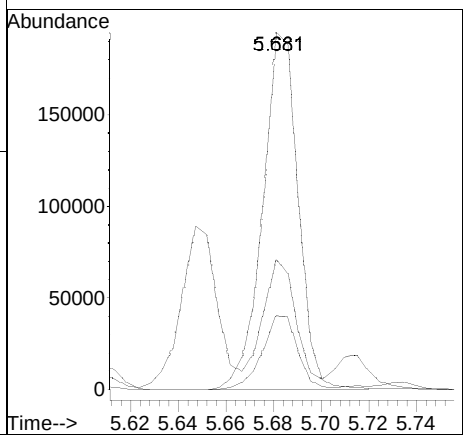


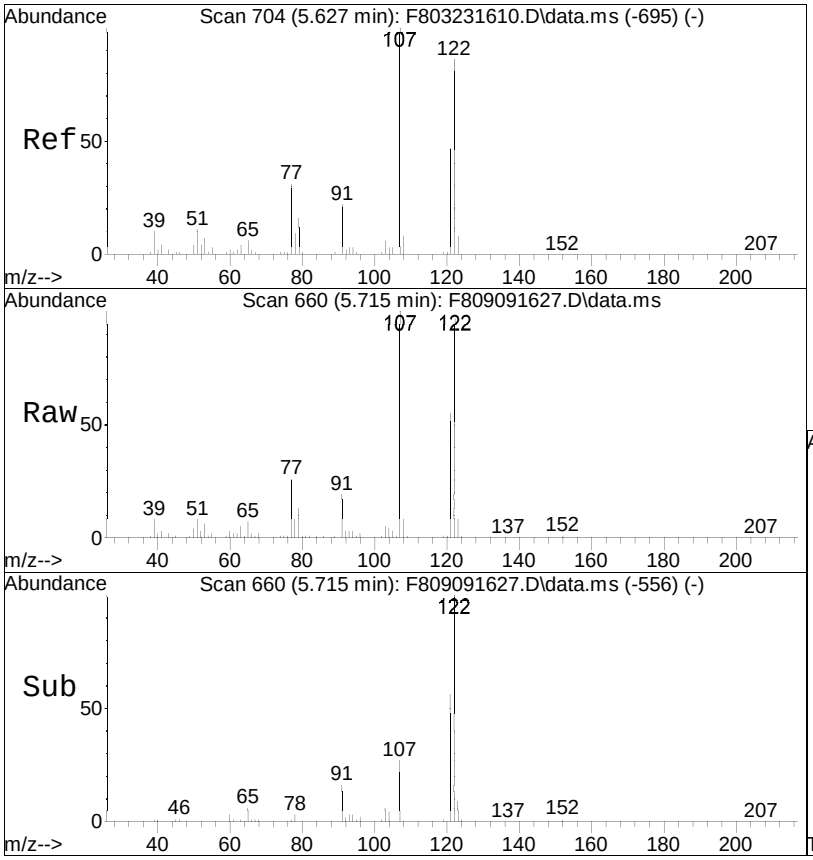


#25
2-Nitrophenol
Concen: 5.90 ug/mL
RT: 5.681 min Scan# 653
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:139 Resp: 200938

Ion	Ratio	Lower	Upper
139	100		
65	46.0	28.4	42.6#
109	21.1	16.3	24.5

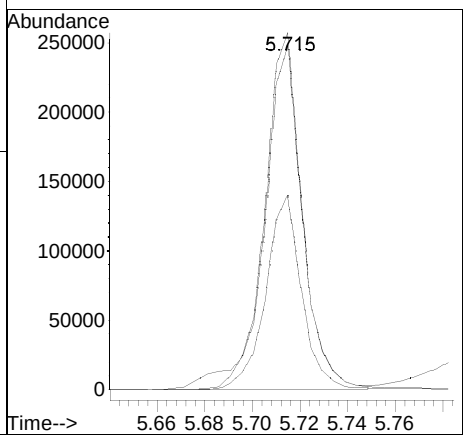


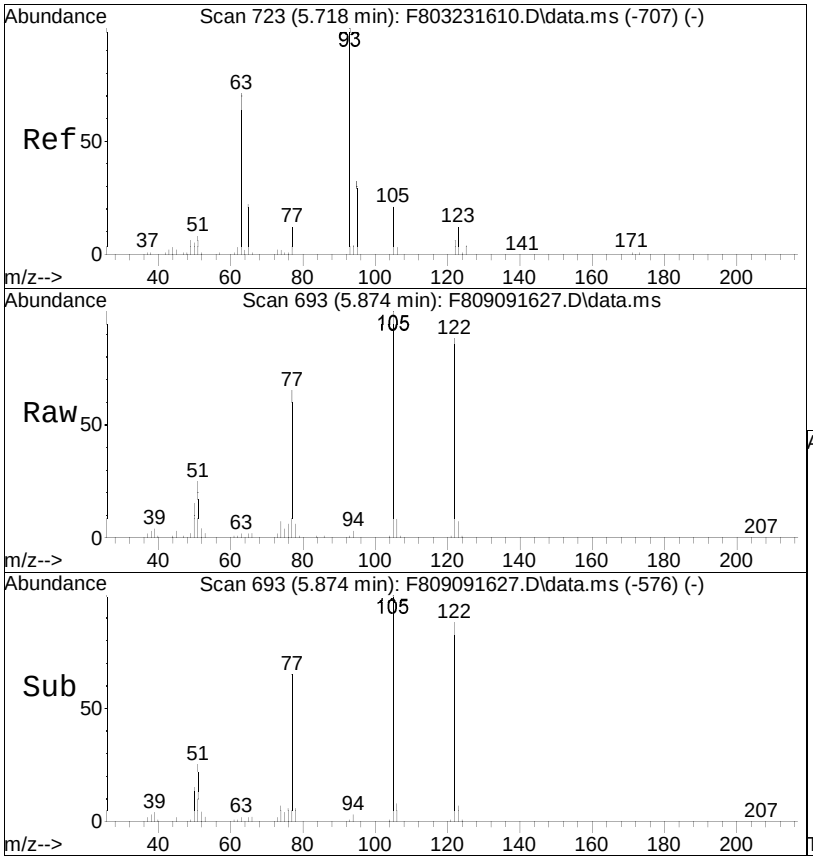


#26
2,4-Dimethylphenol
Concen: 5.12 ug/mL
RT: 5.715 min Scan# 660
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:107 Resp: 277149

Ion	Ratio	Lower	Upper
107	100		
122	93.9	78.4	117.6
121	53.0	43.0	64.6

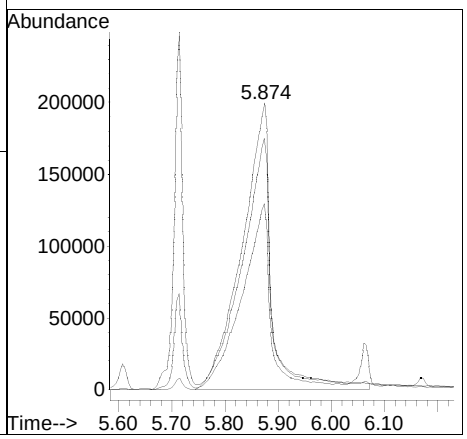


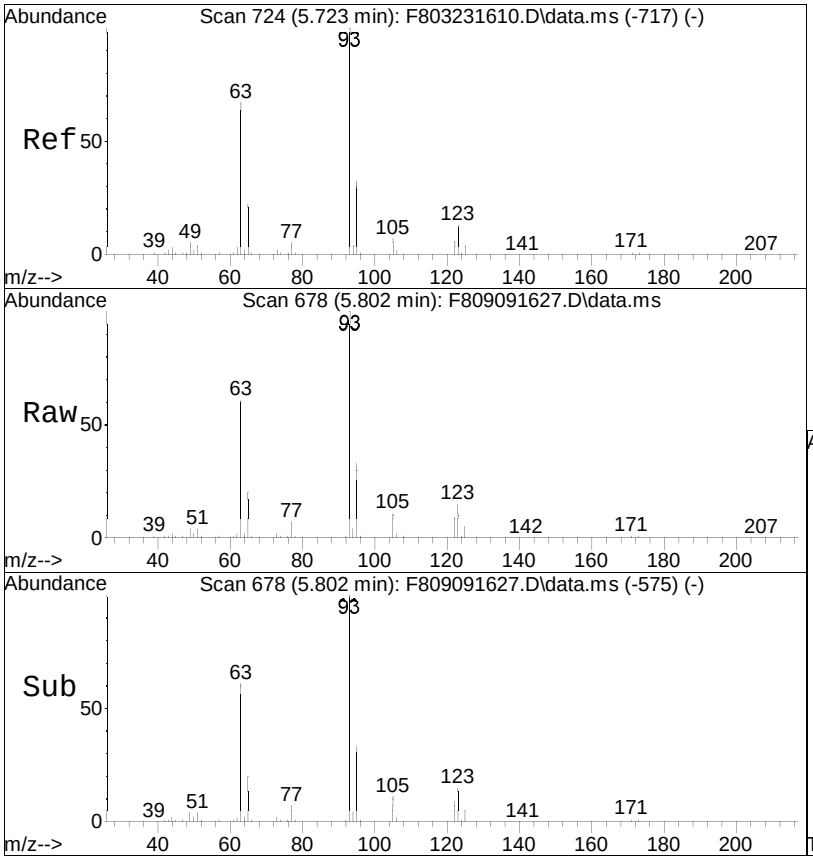


#27
Benzoic acid
Concen: 29.72 ug/mL M4
RT: 5.874 min Scan# 693
Delta R.T. 0.063 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:105 Resp: 779255

Ion	Ratio	Lower	Upper
105	100		
122	86.1	70.9	106.3
77	62.1	53.4	80.0

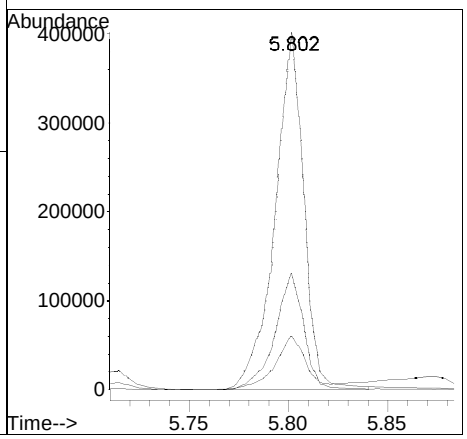


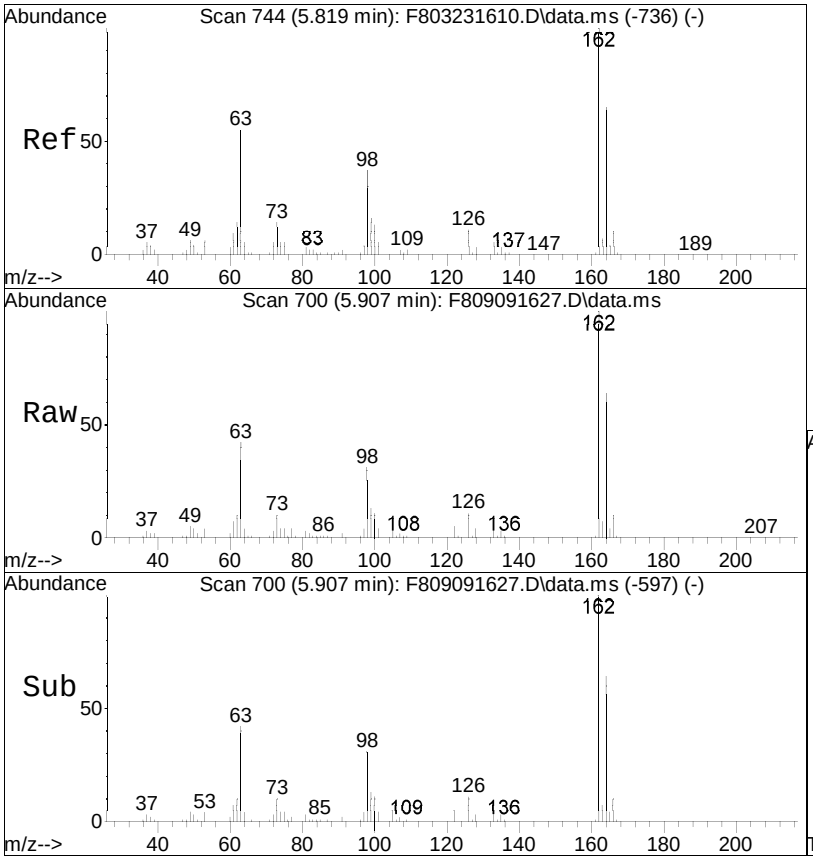


#28
bis(2-Chloroethoxy)methane
Concen: 6.62 ug/mL
RT: 5.802 min Scan# 678
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion: 93 Resp: 402064

Ion	Ratio	Lower	Upper
93	100		
95	32.9	26.7	40.1
123	16.8	11.9	17.9

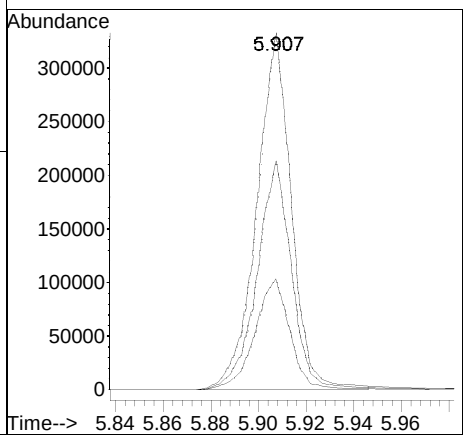


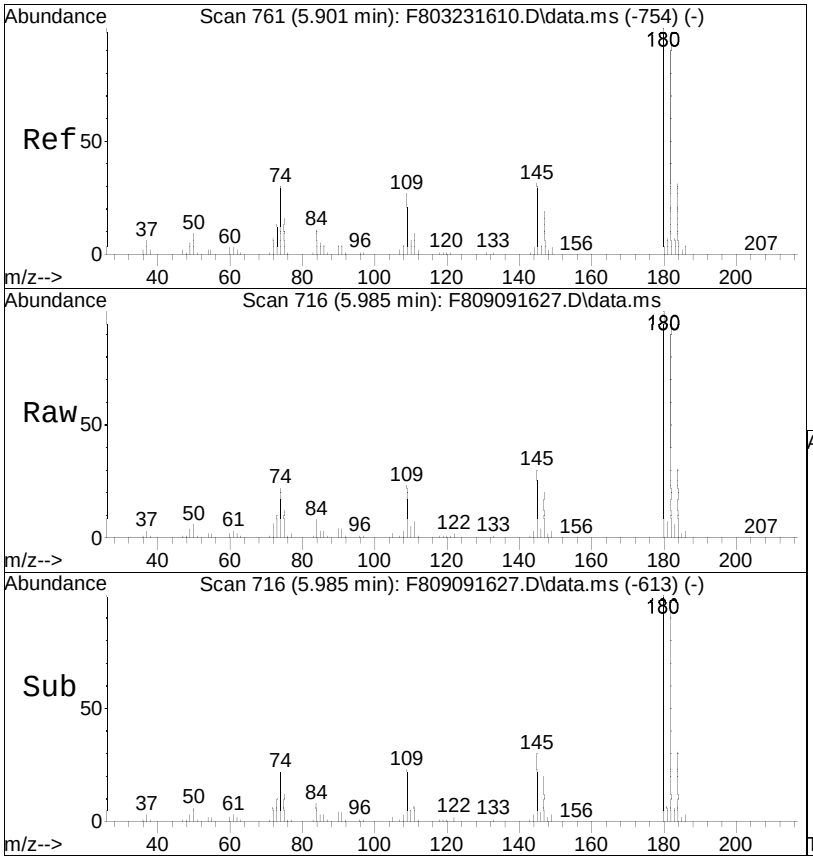


#29
2,4-Dichlorophenol
Concen: 6.69 ug/mL
RT: 5.907 min Scan# 700
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:162 Resp: 331340

Ion	Ratio	Lower	Upper
162	100		
164	64.1	50.8	76.2
98	31.9	26.3	39.5

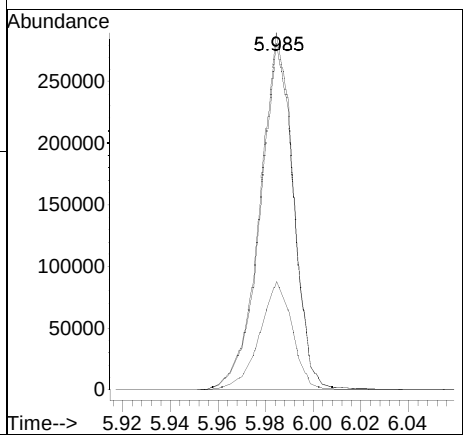


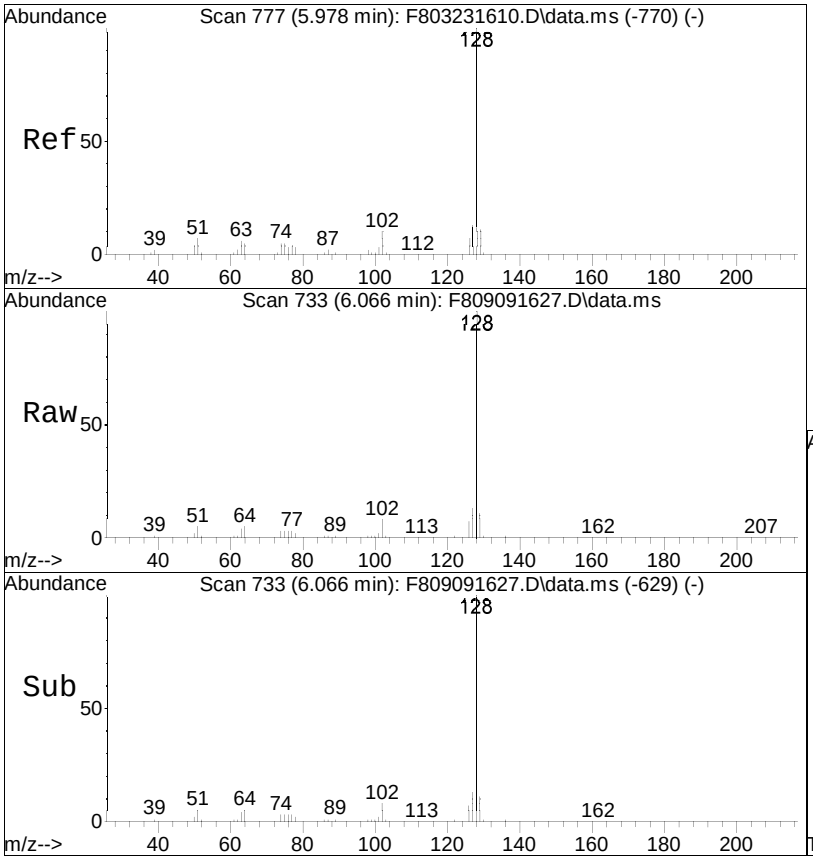


#30
1,2,4-Trichlorobenzene
Concen: 5.31 ug/mL
RT: 5.985 min Scan# 716
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:180 Resp: 285444

Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.2	114.4
145	29.6	23.6	35.4

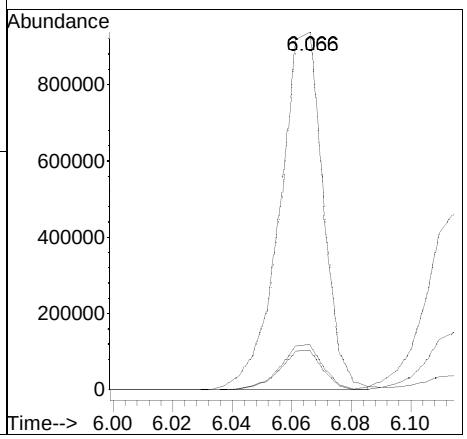


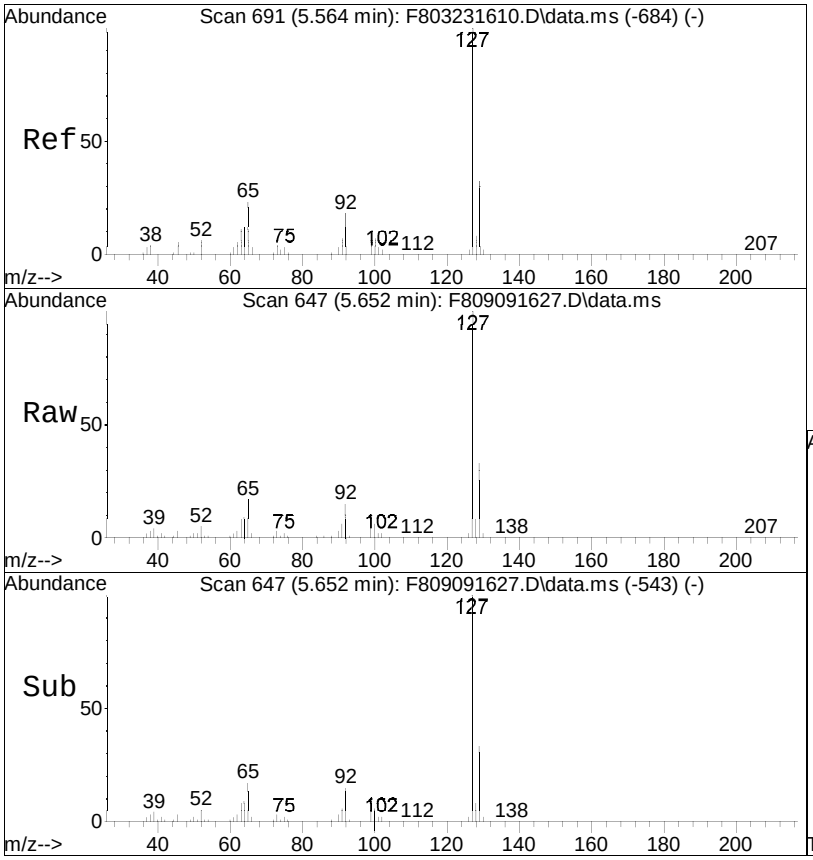


#31
Naphthalene
Concen: 5.49 ug/mL
RT: 6.066 min Scan# 733
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:128 Resp: 948069

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.4
127	12.9	10.0	15.0

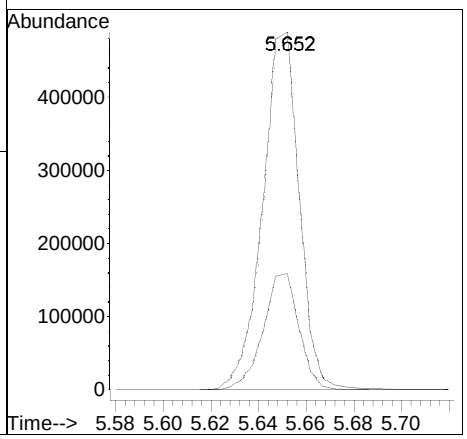


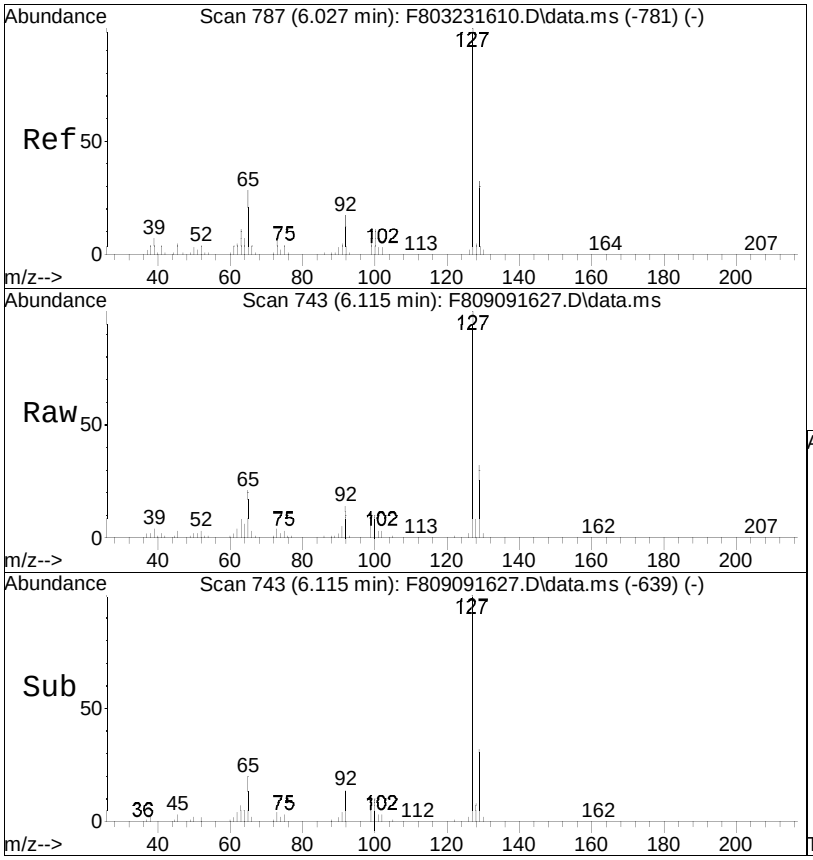


#32
2-Chloroaniline
Concen: 5.94 ug/ml
RT: 5.652 min Scan# 647
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:127 Resp: 517270

Ion	Ratio	Lower	Upper
127	100		
129	32.2	26.2	39.4

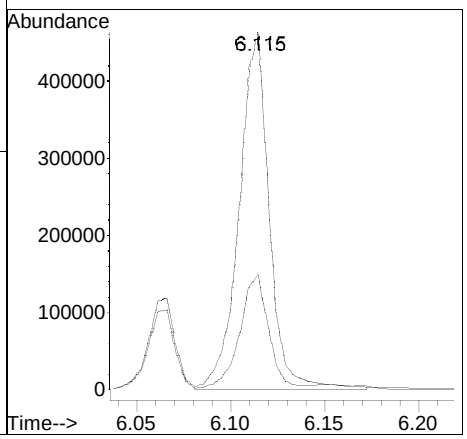


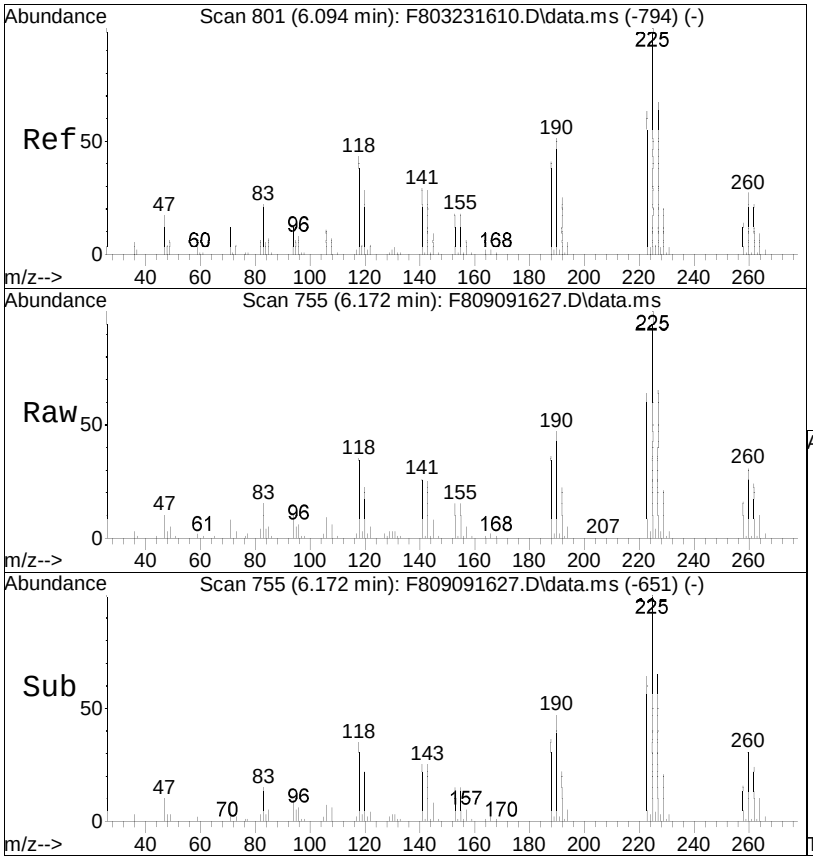


#33
4-Chloroaniline
Concen: 6.84 ug/mL M4
RT: 6.115 min Scan# 743
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:127 Resp: 508227

Ion	Ratio	Lower	Upper
127	100		
129	30.7	25.8	38.6

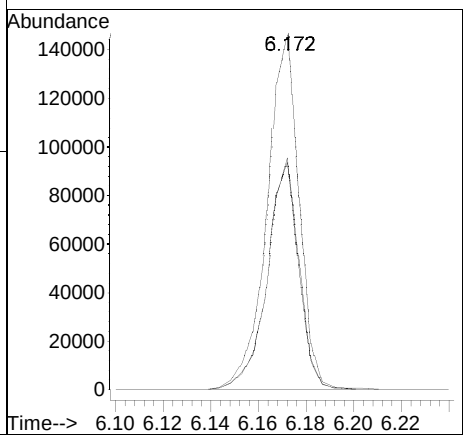


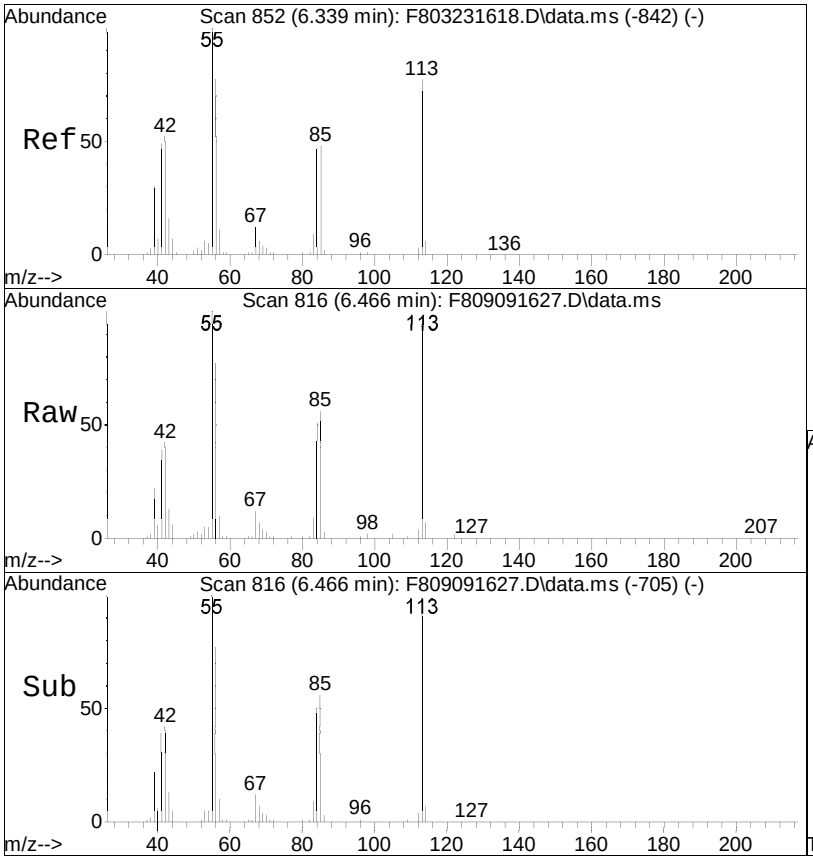


#34
Hexachlorobutadiene
Concen: 4.99 ug/mL
RT: 6.172 min Scan# 755
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:225 Resp: 136525

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.8	76.2
227	64.2	51.1	76.7

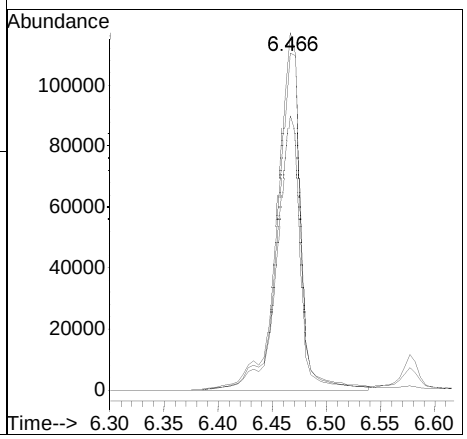


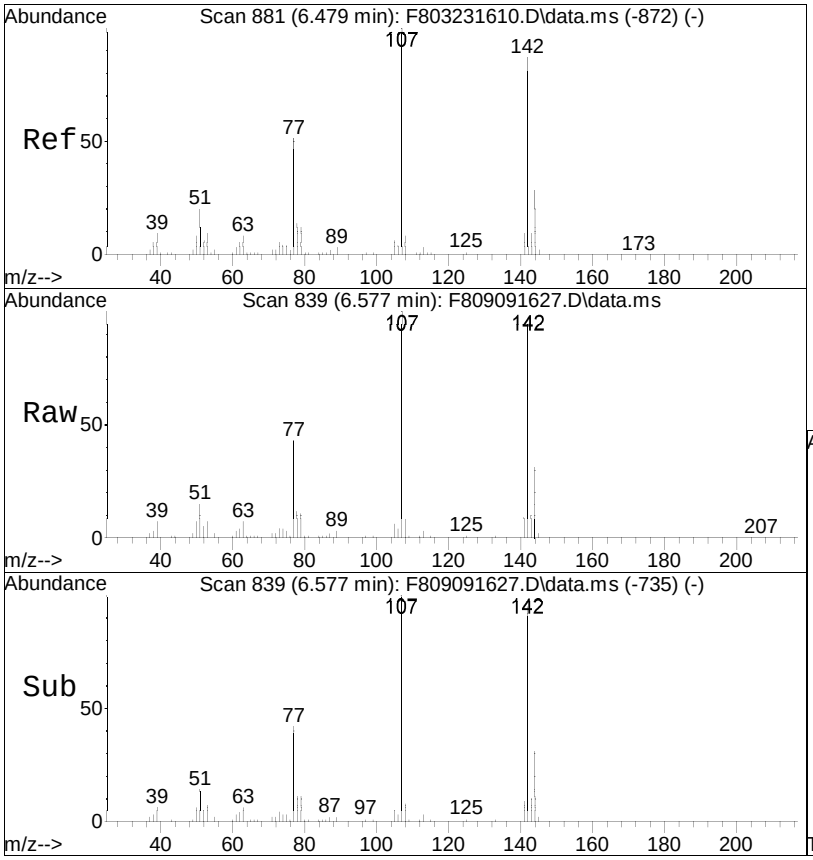


#35
Caprolactam
Concen: 10.27 ug/ml
RT: 6.466 min Scan# 816
Delta R.T. 0.034 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:113 Resp: 164717

Ion	Ratio	Lower	Upper
113	100		
55	103.4	82.6	123.8
56	79.1	63.0	94.6

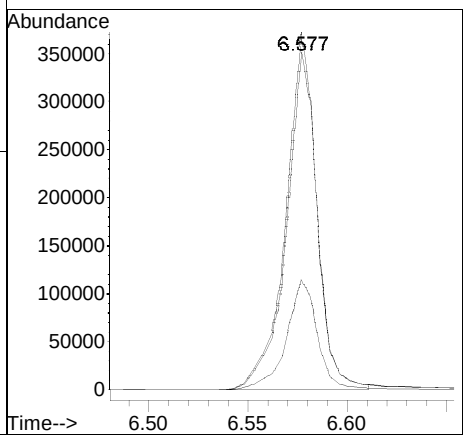


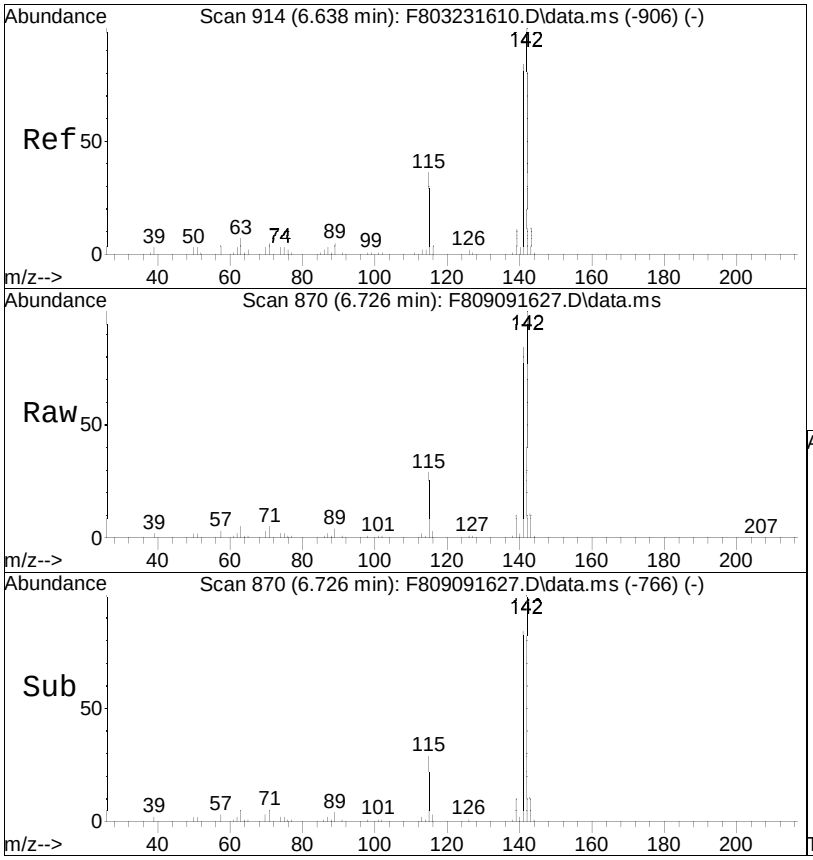


#36
4-Chloro-3-methylphenol
Concen: 8.36 ug/mL
RT: 6.577 min Scan# 839
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:107 Resp: 398899

Ion	Ratio	Lower	Upper
107	100		
144	30.9	24.3	36.5
142	94.6	74.4	111.6

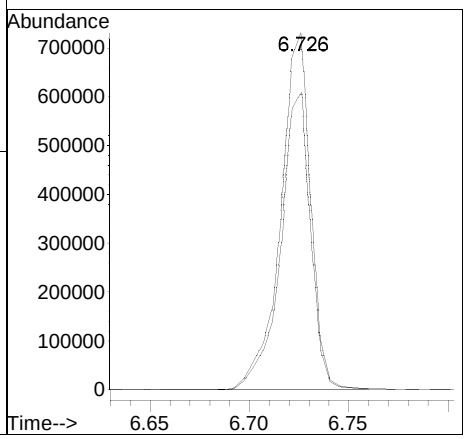


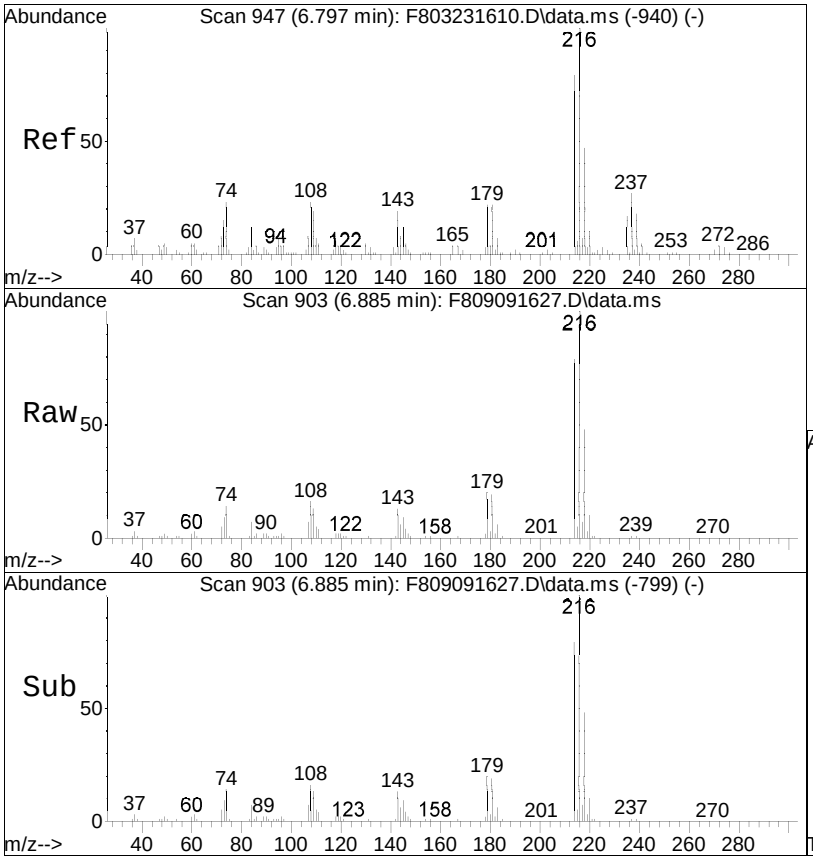


#37
2-Methylnaphthalene
Concen: 6.54 ug/mL
RT: 6.726 min Scan# 870
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:142 Resp: 765816

Ion	Ratio	Lower	Upper
142	100		
141	84.0	66.6	100.0

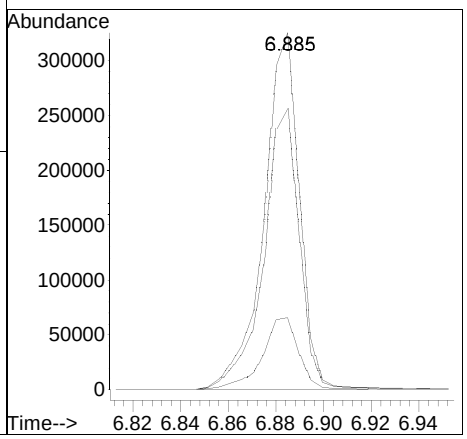


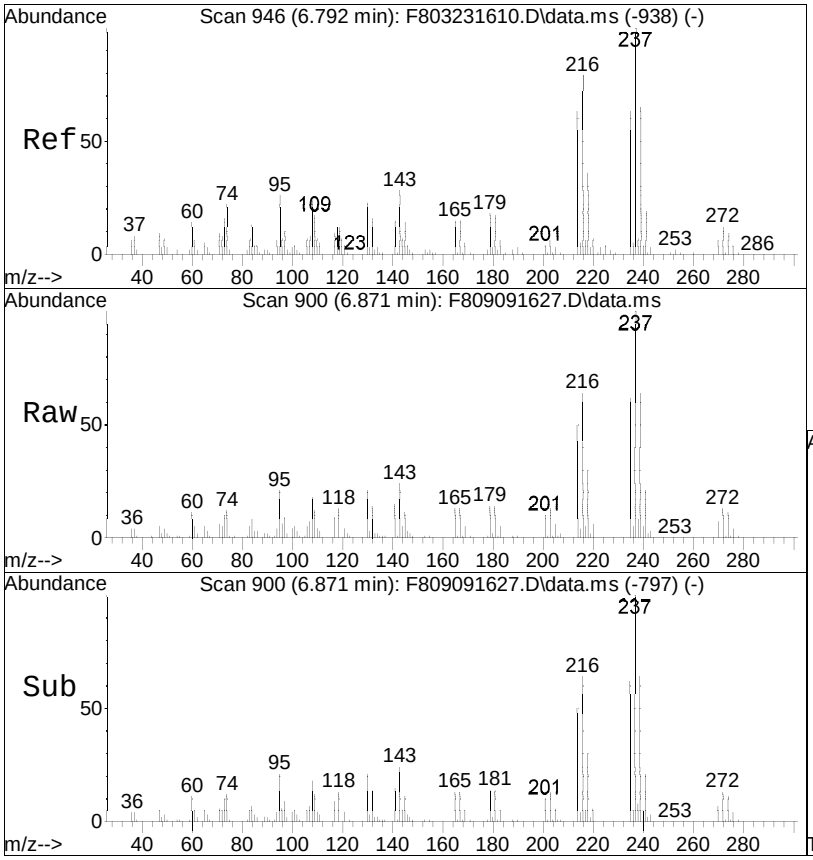


#39
1,2,4,5-Tetrachlorobenzene
Concen: 6.80 ug/mL
RT: 6.885 min Scan# 903
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:216 Resp: 337102

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.0	94.6
179	20.7	16.2	24.4

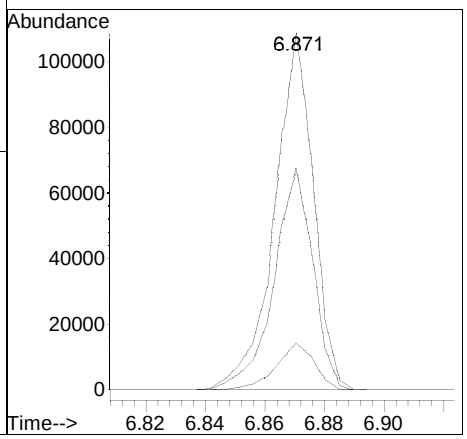


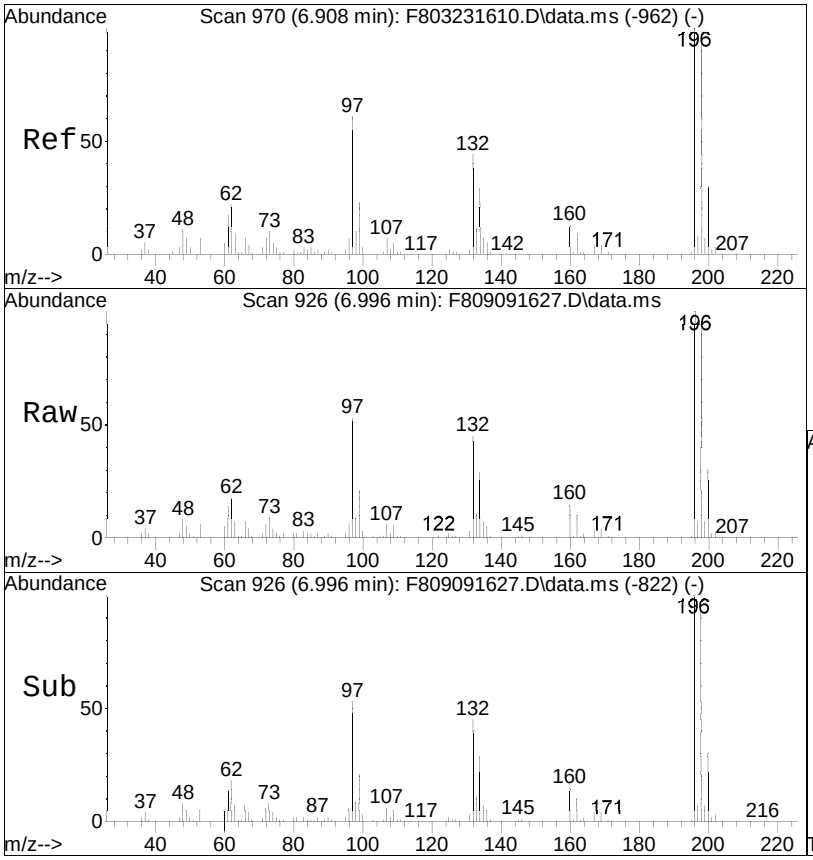


#40
Hexachlorocyclopentadiene
Concen: 4.65 ug/mL
RT: 6.871 min Scan# 900
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:237 Resp: 98293

Ion	Ratio	Lower	Upper
237	100		
235	62.4	53.3	79.9
272	13.2	10.9	16.3

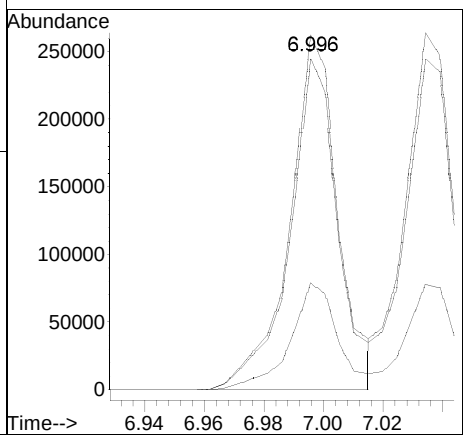


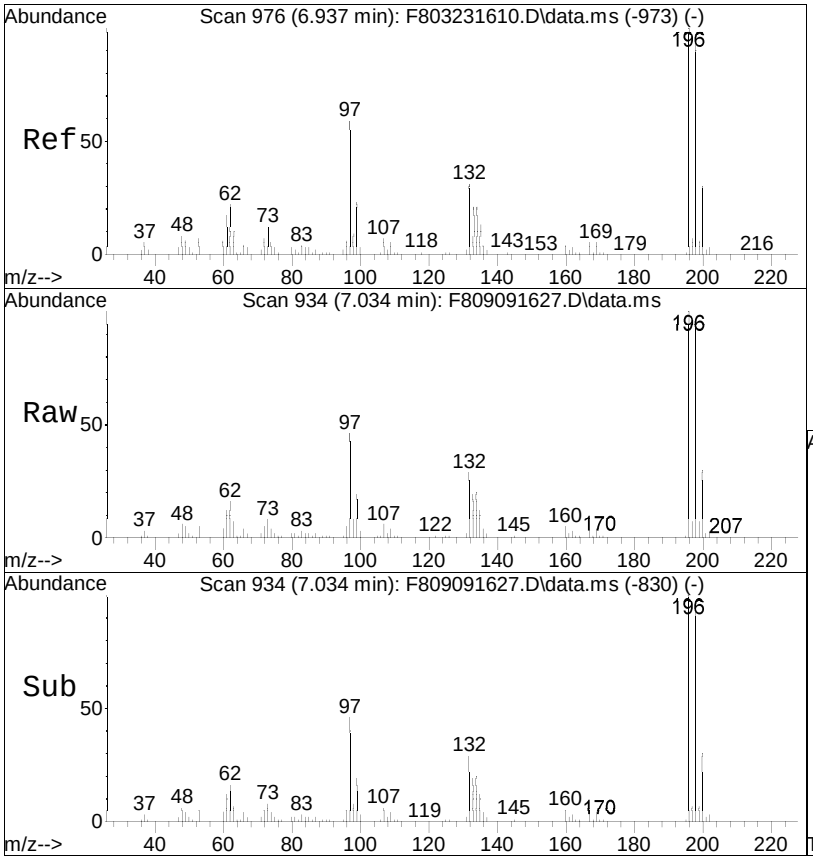


#41
2,4,6-Trichlorophenol
Concen: 8.26 ug/mL
RT: 6.996 min Scan# 926
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:196 Resp: 295122

Ion	Ratio	Lower	Upper
196	100		
198	92.7	73.6	110.4
200	29.7	23.5	35.3

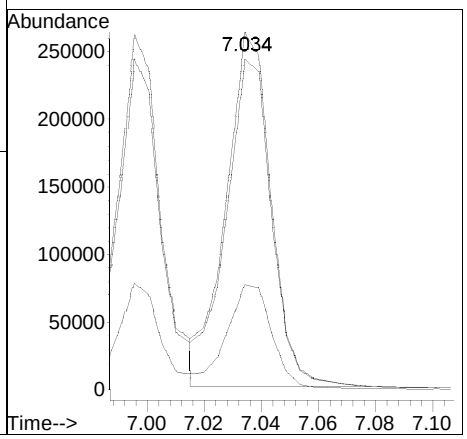


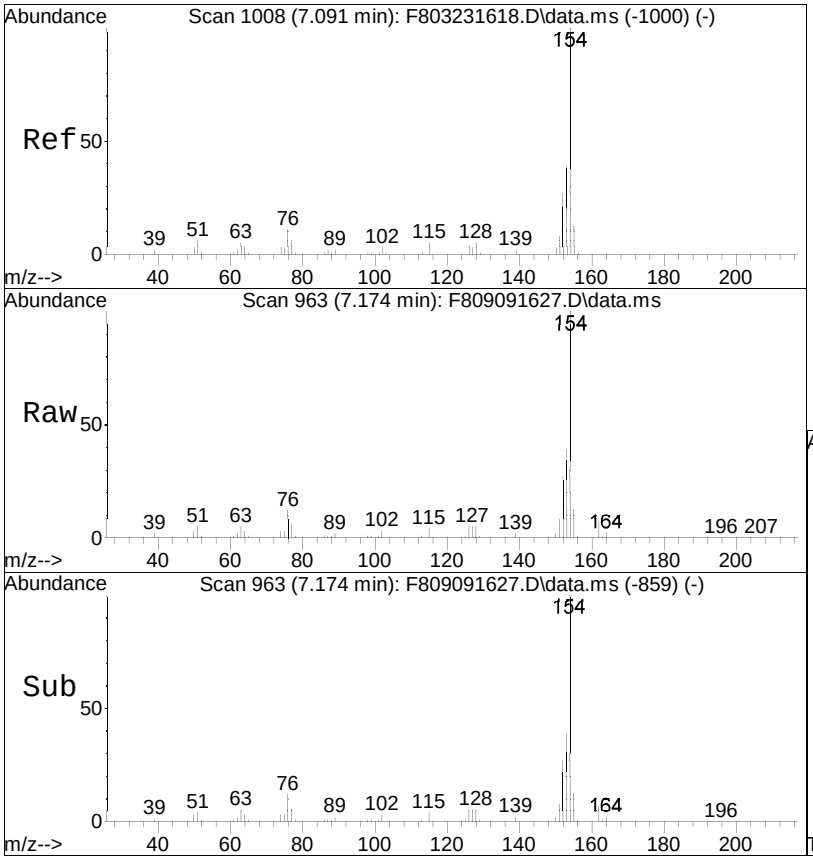


#42
2,4,5-Trichlorophenol
Concen: 8.99 ug/mL M6
RT: 7.034 min Scan# 934
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:196 Resp: 285407

Ion	Ratio	Lower	Upper
196	100		
198	95.3	73.2	109.8
200	30.8	23.9	35.9

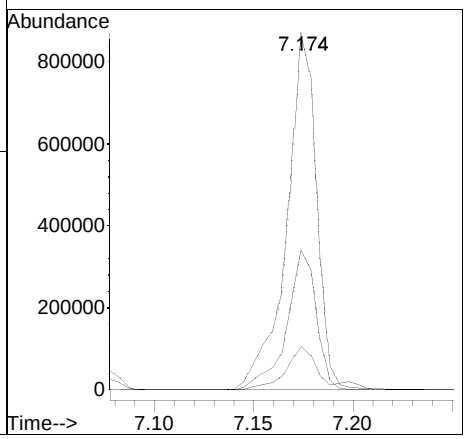


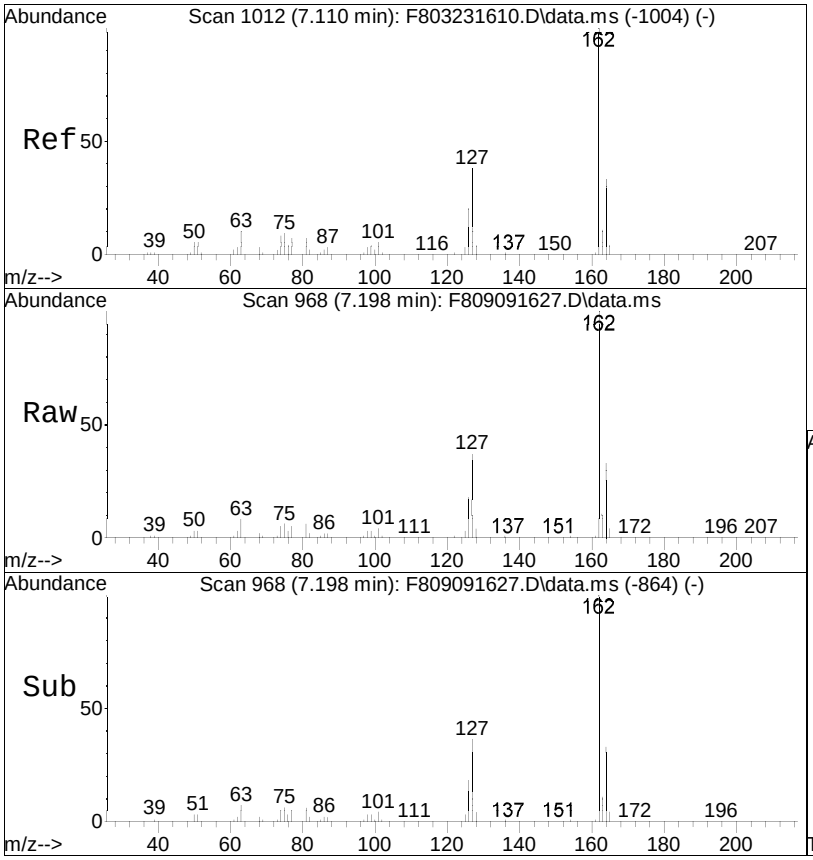


#44
Biphenyl
Concen: 6.61 ug/ml
RT: 7.174 min Scan# 963
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:154 Resp: 907969

Ion	Ratio	Lower	Upper
154	100		
153	39.0	31.4	47.0
76	14.2	9.8	14.6

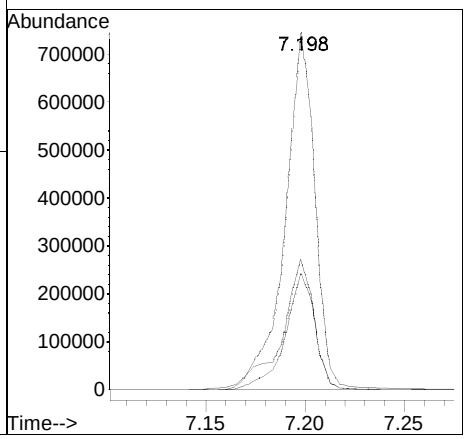


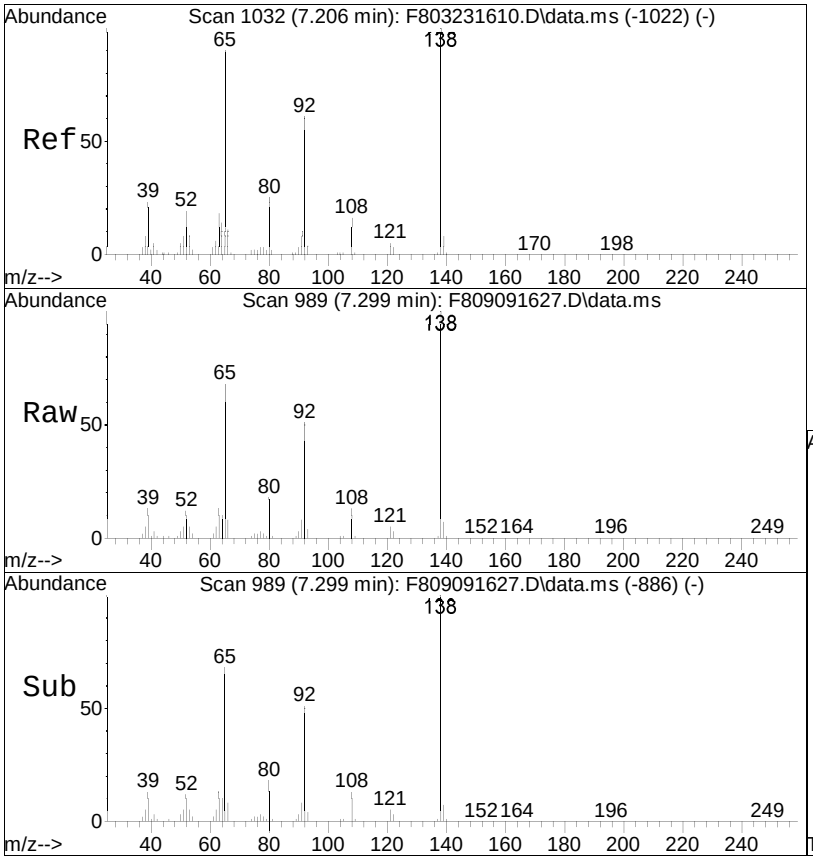


#45
2-Chloronaphthalene
Concen: 7.20 ug/mL
RT: 7.198 min Scan# 968
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:162 Resp: 773726

Ion	Ratio	Lower	Upper
162	100		
164	32.7	26.4	39.6
127	39.1	30.2	45.2

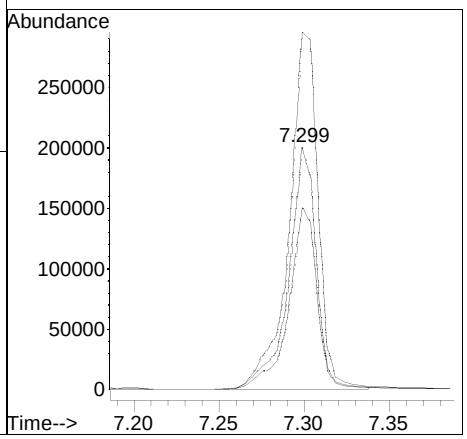


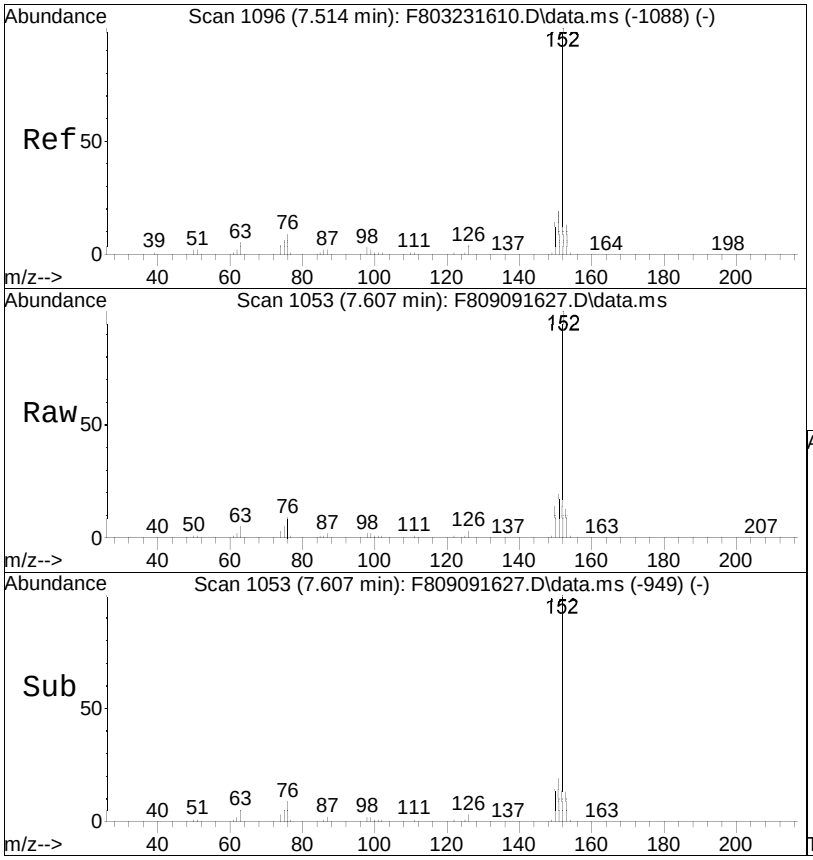


#46
2-Nitroaniline
Concen: 9.08 ug/mL
RT: 7.299 min Scan# 989
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion: 65 Resp: 225664

Ion	Ratio	Lower	Upper
65	100		
92	76.7	61.0	91.4
138	153.1	122.0	183.0

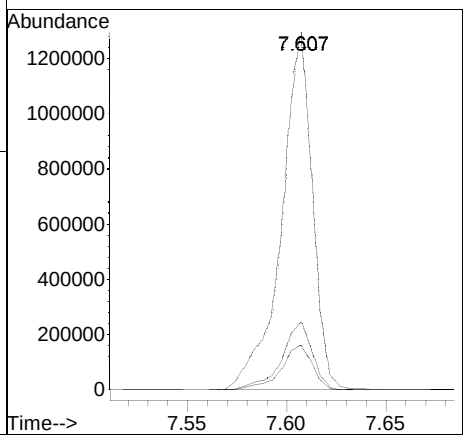


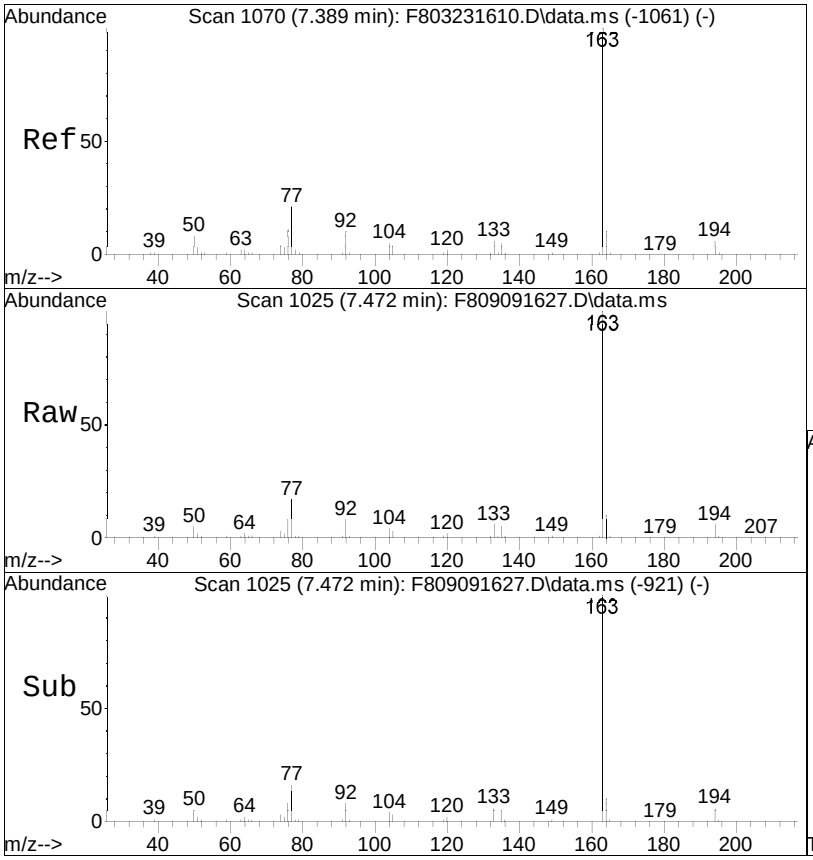


#47
Acenaphthylene
Concen: 7.85 ug/mL
RT: 7.607 min Scan# 1053
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:152 Resp: 1394658

Ion	Ratio	Lower	Upper
152	100		
151	19.0	15.8	23.8
153	12.9	10.6	16.0

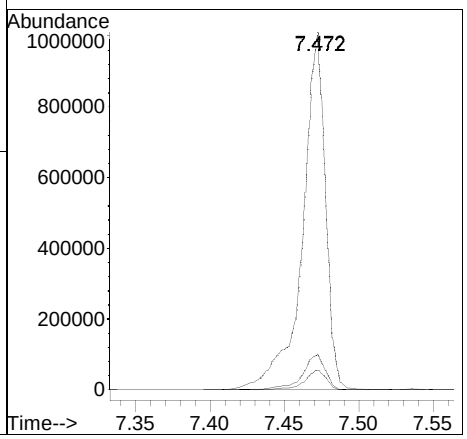


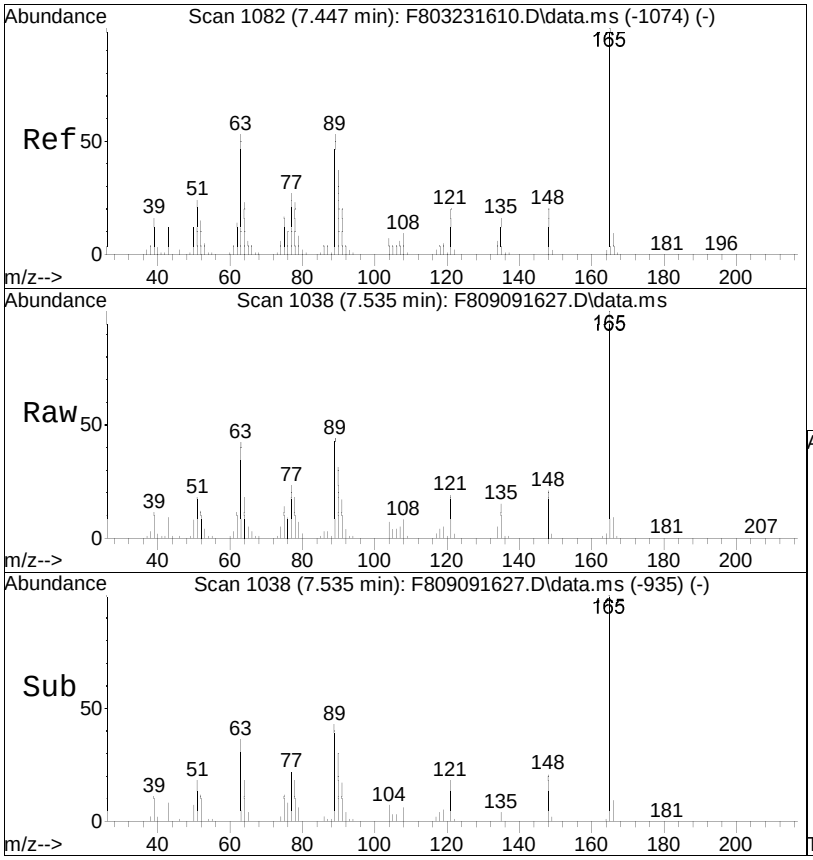


#48
Dimethylphthalate
Concen: 9.31 ug/mL
RT: 7.472 min Scan# 1025
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:163 Resp: 1076580

Ion	Ratio	Lower	Upper
163	100		
194	5.5	4.4	6.6
164	10.2	8.3	12.5

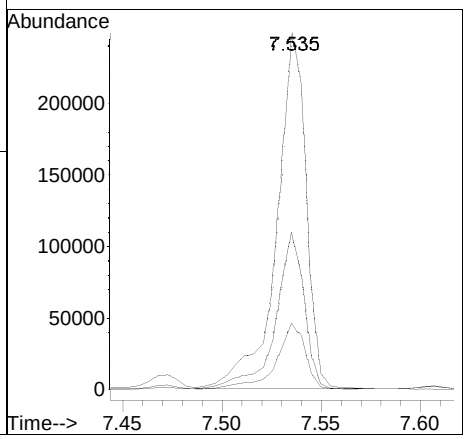


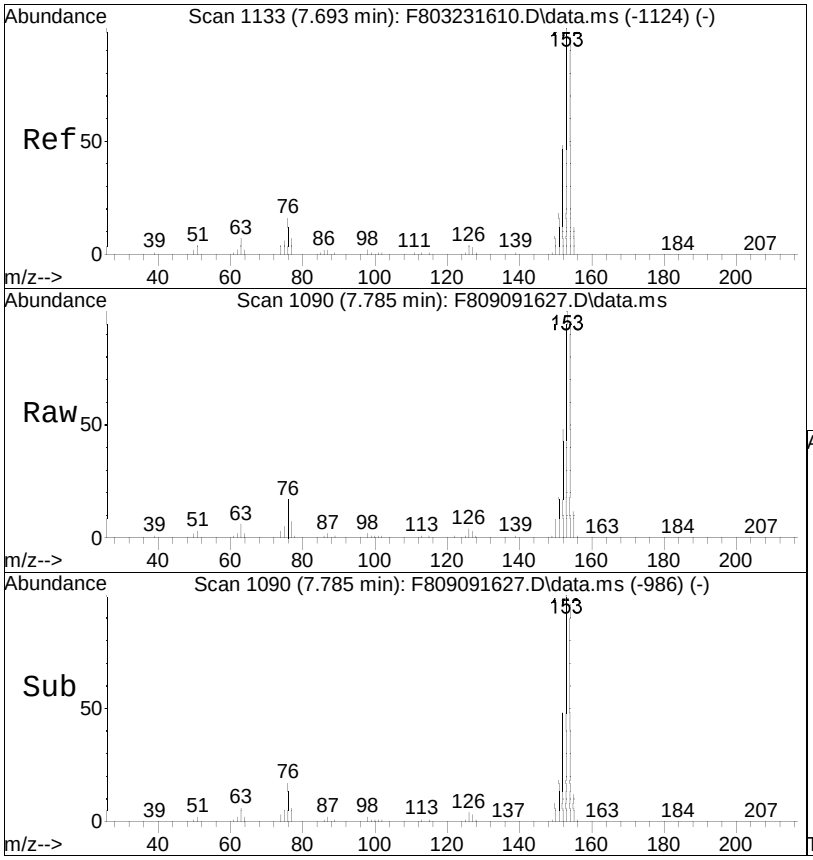


#49
2,6-Dinitrotoluene
Concen: 9.51 ug/mL
RT: 7.535 min Scan# 1038
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:165 Resp: 255370

Ion	Ratio	Lower	Upper
165	100		
89	42.9	40.5	60.7
121	18.8	16.6	25.0

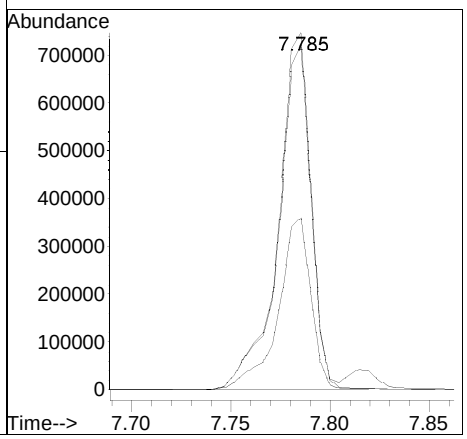


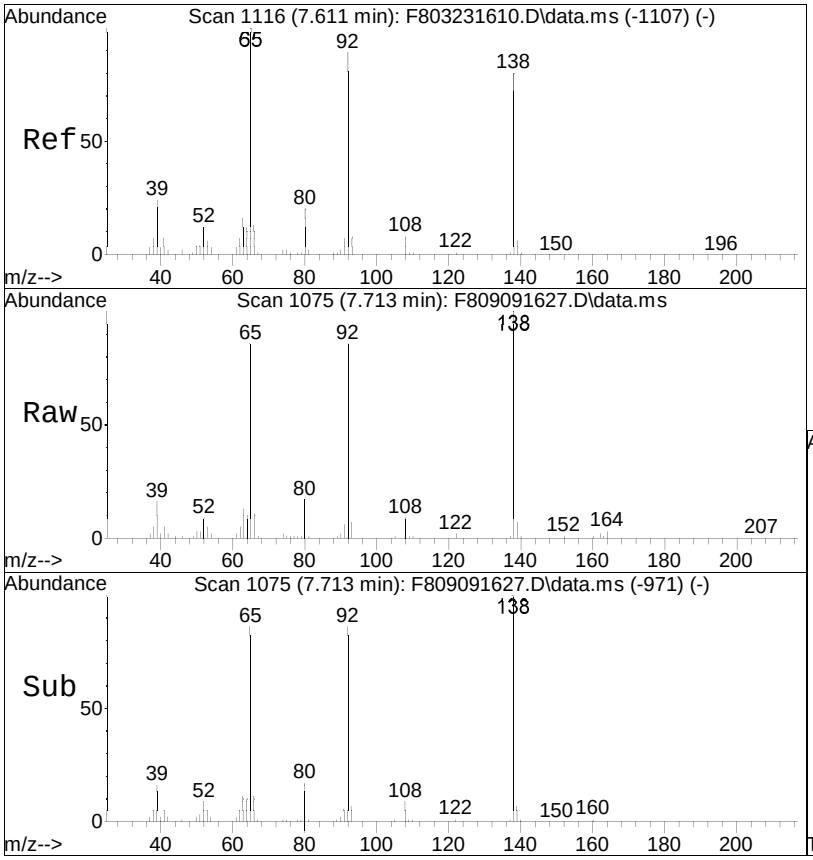


#50
Acenaphthene
Concen: 7.96 ug/mL
RT: 7.785 min Scan# 1090
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:153 Resp: 860872

Ion	Ratio	Lower	Upper
153	100		
154	95.9	75.4	113.0
152	47.5	39.3	58.9

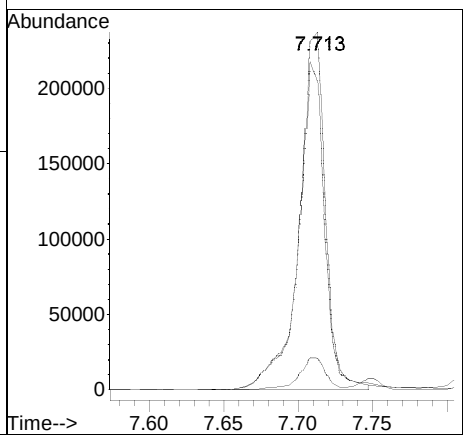


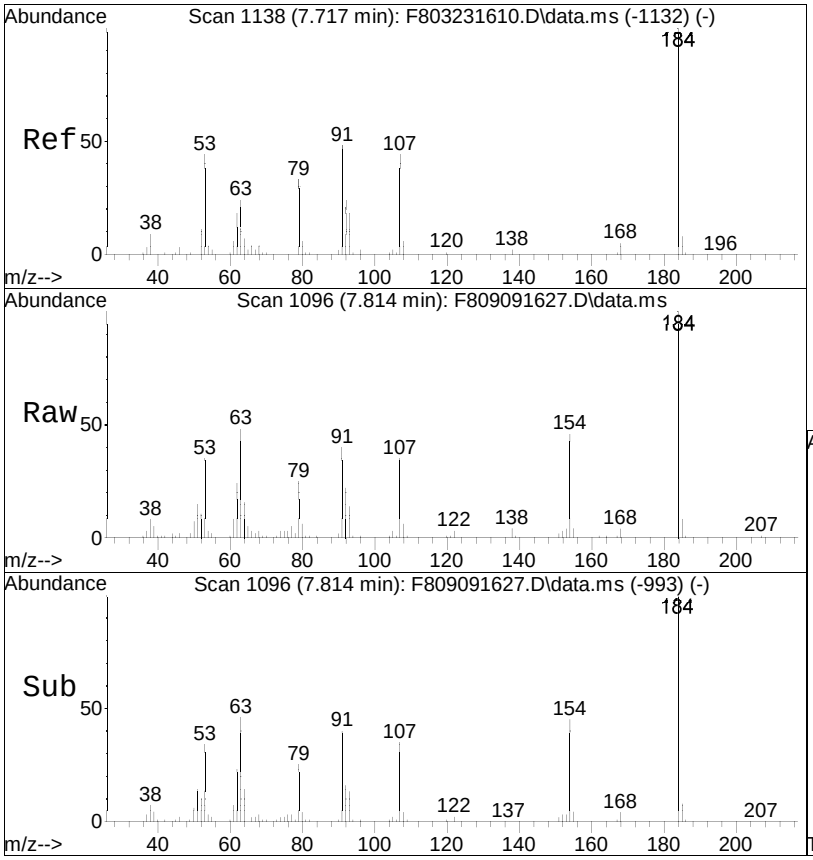


#51
3-Nitroaniline
Concen: 9.42 ug/mL
RT: 7.713 min Scan# 1075
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:138 Resp: 289655

Ion	Ratio	Lower	Upper
138	100		
108	9.8	8.9	13.3
92	91.6	72.2	108.4

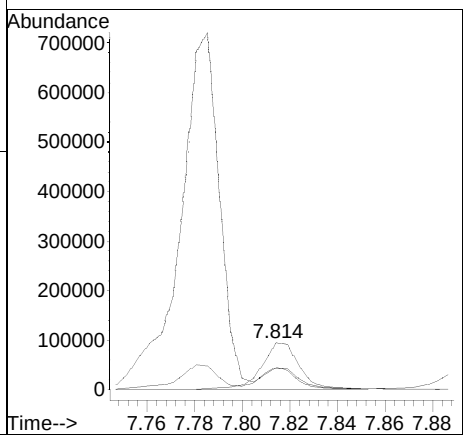


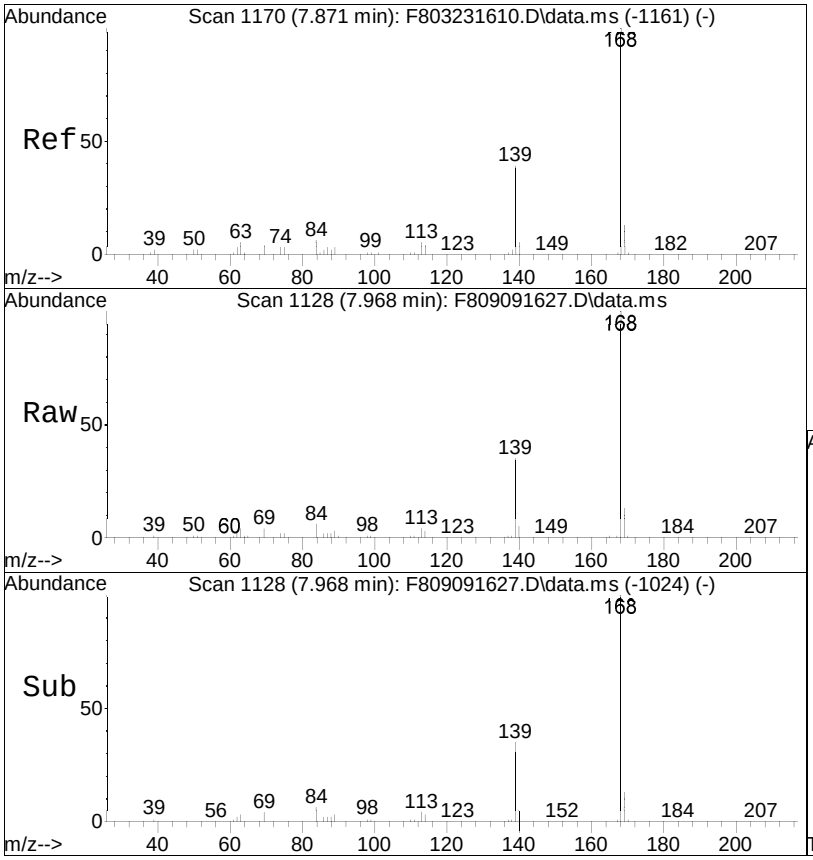


#52
2,4-Dinitrophenol
Concen: 8.37 ug/mL
RT: 7.814 min Scan# 1096
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:184 Resp: 101450

Ion	Ratio	Lower	Upper
184	100		
63	46.6	43.8	65.6
154	0.0	37.1	55.7#

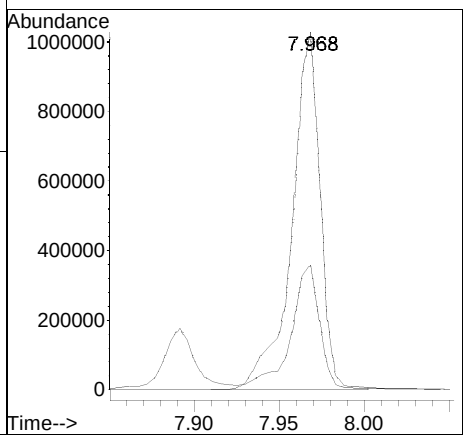


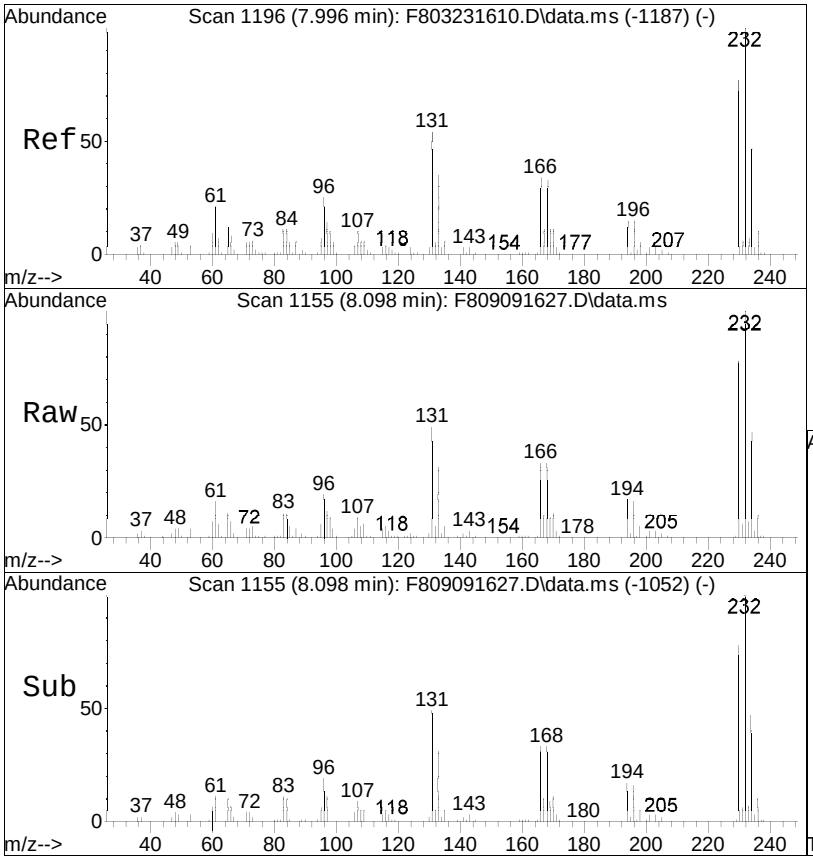


#53
Dibenzofuran
Concen: 8.36 ug/mL
RT: 7.968 min Scan# 1128
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:168 Resp: 1180672

Ion	Ratio	Lower	Upper
168	100		
139	34.6	28.8	43.2

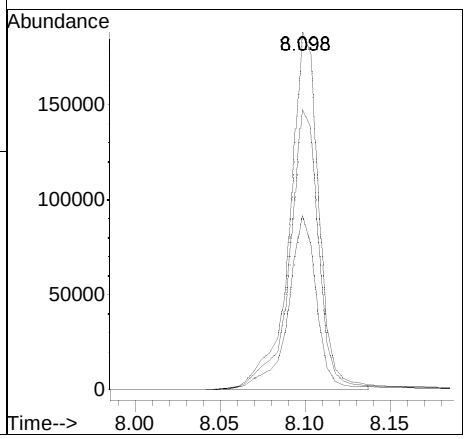


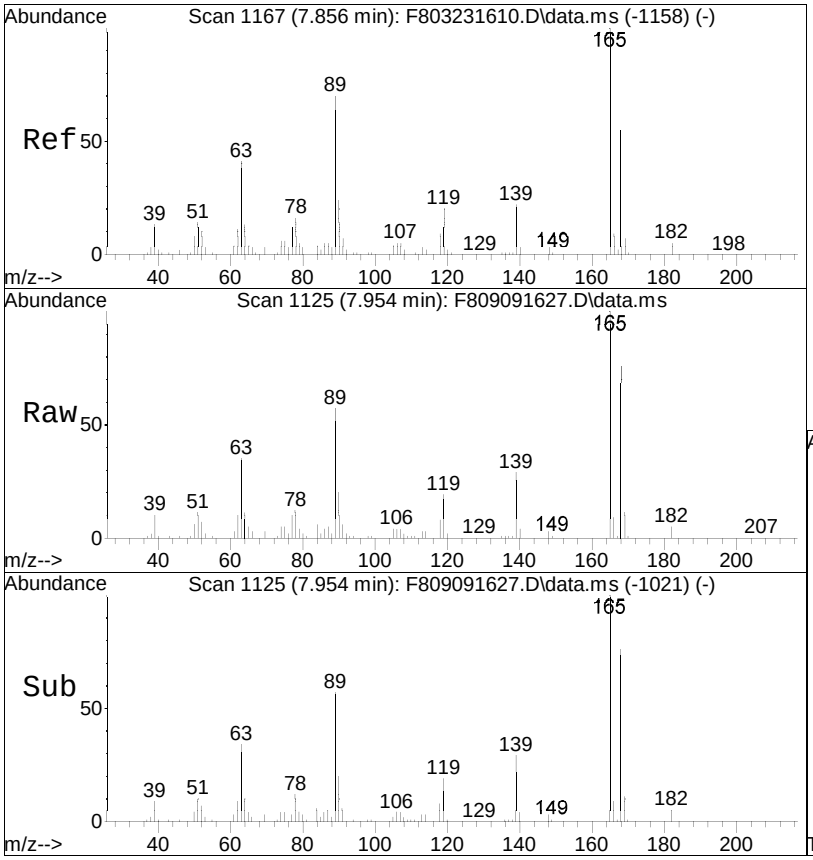


#54
2,3,4,6-Tetrachlorophenol
Concen: 10.47 ug/mL
RT: 8.098 min Scan# 1155
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:232 Resp: 224241

Ion	Ratio	Lower	Upper
232	100		
131	48.1	43.1	64.7
230	78.5	63.0	94.6

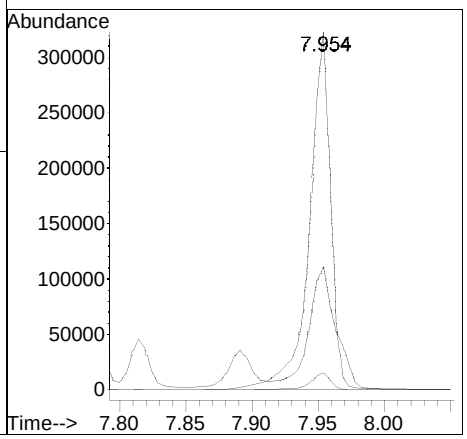


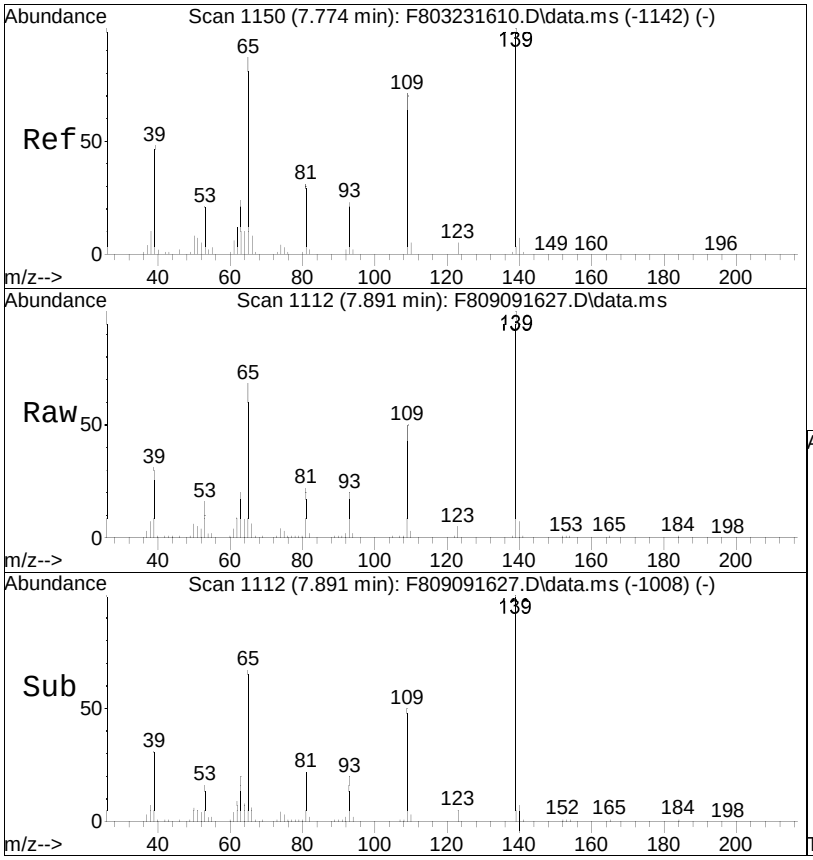


#55
2,4-Dinitrotoluene
Concen: 10.37 ug/mL
RT: 7.954 min Scan# 1125
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:165 Resp: 357213

Ion	Ratio	Lower	Upper
165	100		
63	43.8	30.9	46.3
182	4.7	3.5	5.3

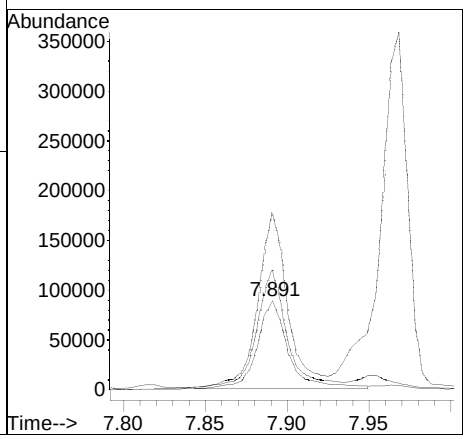


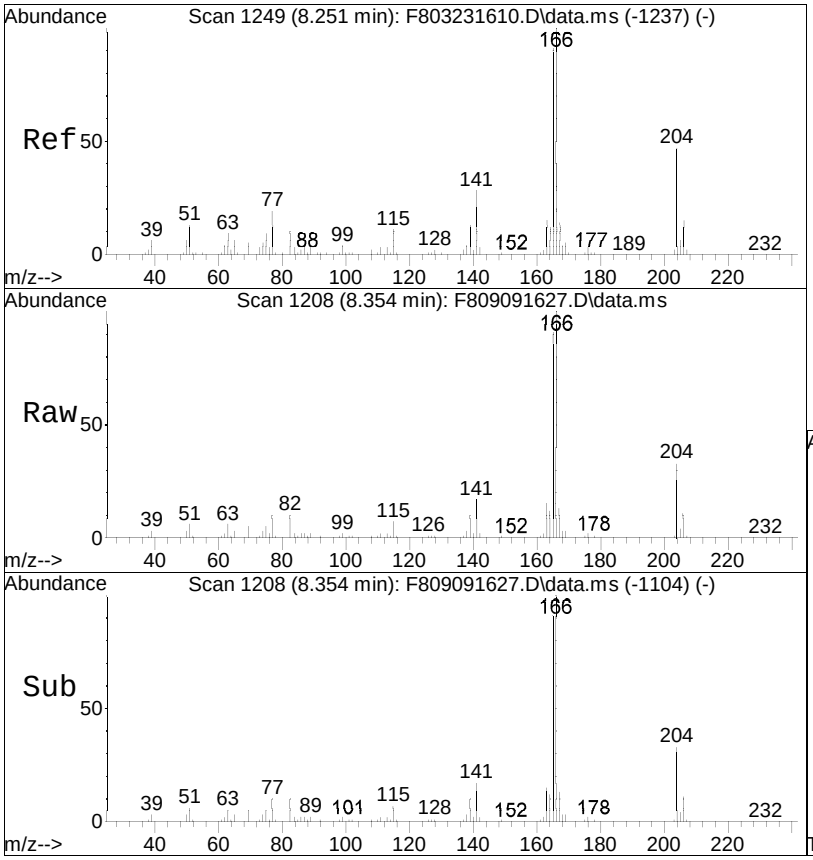


#56
4-Nitrophenol
Concen: 10.07 ug/mL M4
RT: 7.891 min Scan# 1112
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:109 Resp: 117184

Ion	Ratio	Lower	Upper
109	100		
139	182.3	149.7	224.5
65	130.5	107.3	160.9

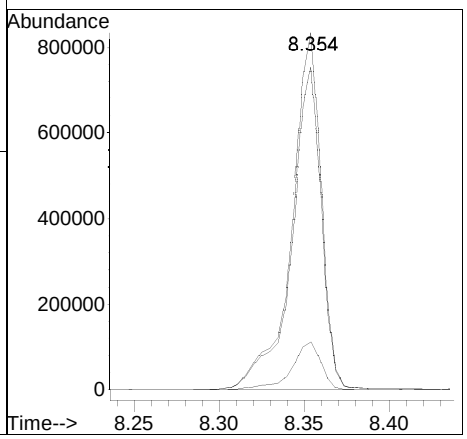


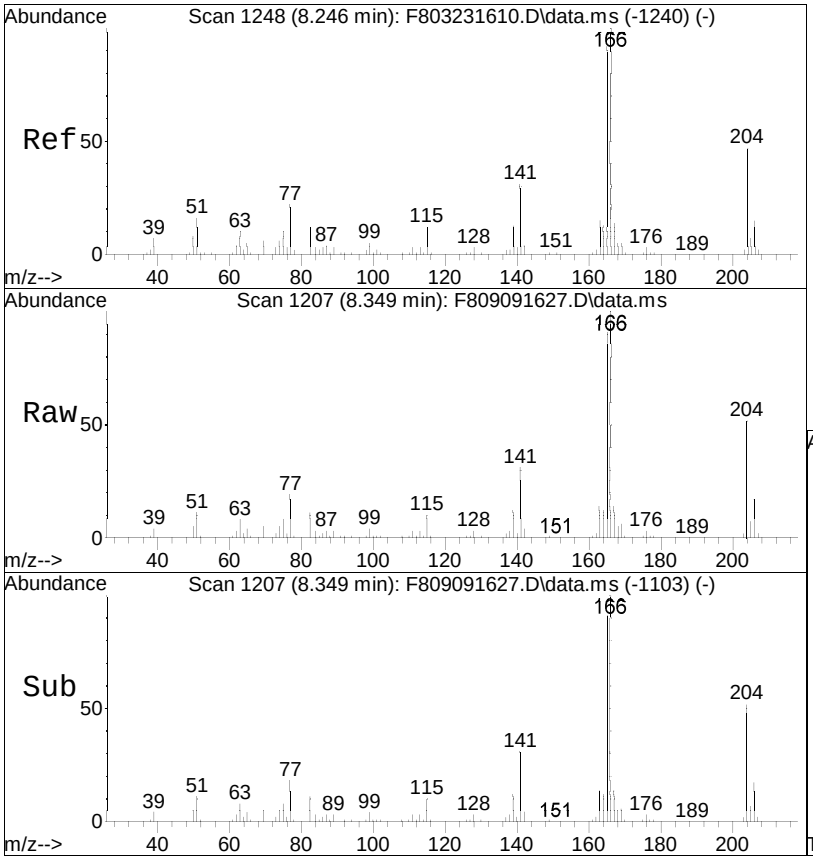


#57
Fluorene
Concen: 8.71 ug/mL
RT: 8.354 min Scan# 1208
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:166 Resp: 1012834

Ion	Ratio	Lower	Upper
166	100		
165	90.8	72.9	109.3
167	13.6	10.9	16.3

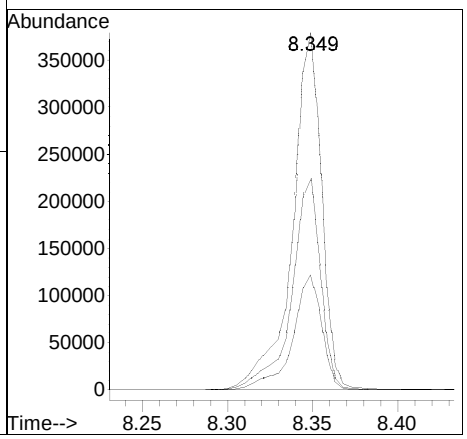


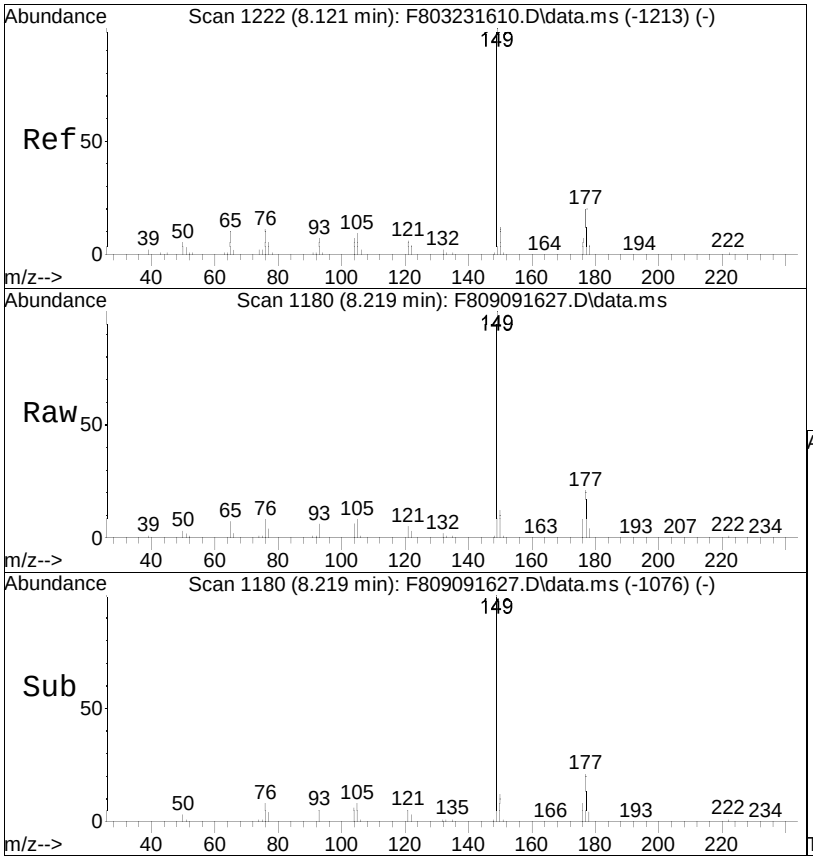


#58
4-Chlorophenyl-phenylether
Concen: 8.77 ug/mL
RT: 8.349 min Scan# 1207
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:204 Resp: 456671

Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.9	38.9
141	58.7	46.2	69.4

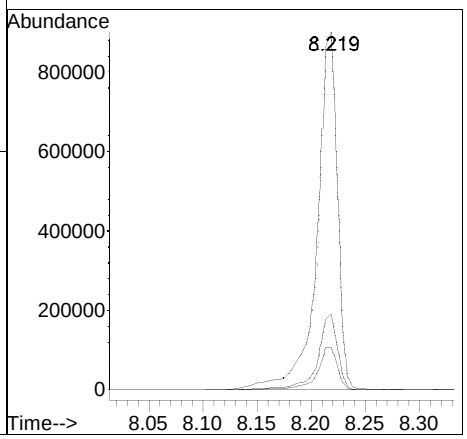


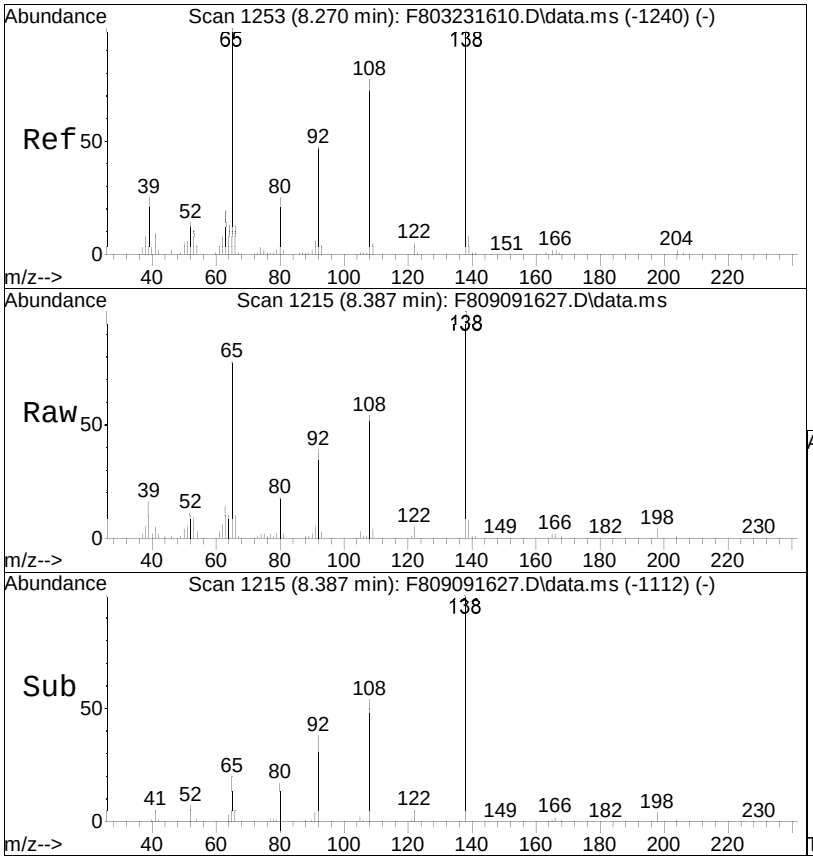


#59
Diethylphthalate
Concen: 9.90 ug/mL
RT: 8.219 min Scan# 1180
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:149 Resp: 1169844

Ion	Ratio	Lower	Upper
149	100		
177	20.9	16.6	24.8
150	12.0	9.8	14.6

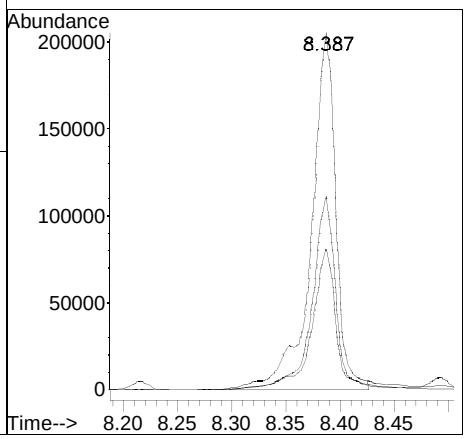


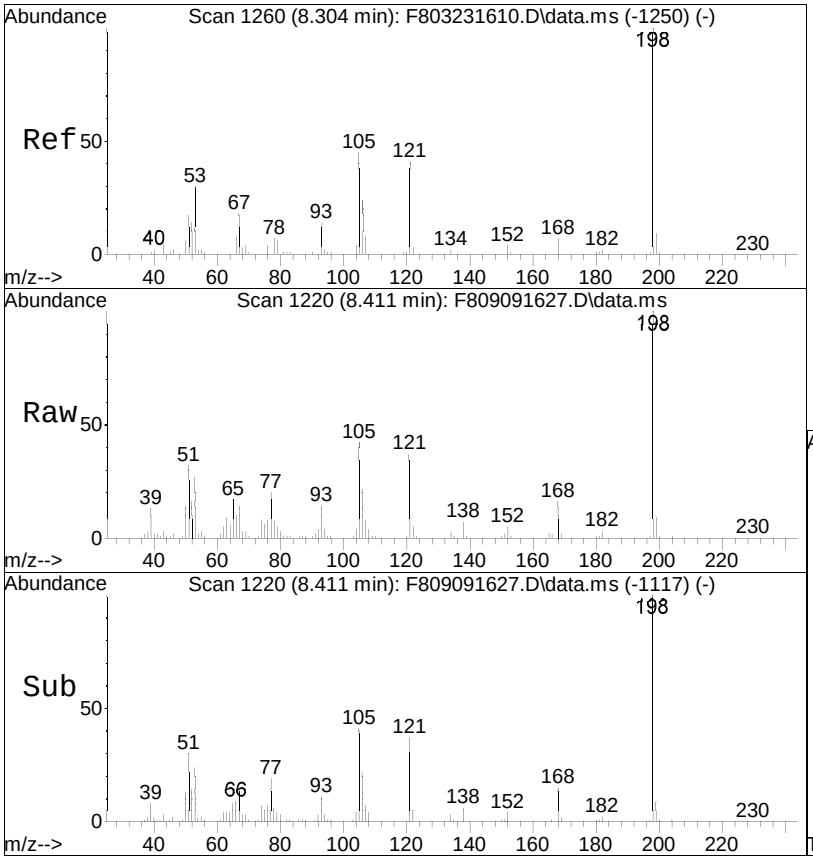


#60
4-Nitroaniline
Concen: 10.18 ug/mL
RT: 8.387 min Scan# 1215
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:138 Resp: 323135

Ion	Ratio	Lower	Upper
138	100		
92	40.3	32.7	49.1
108	52.0	45.8	68.6

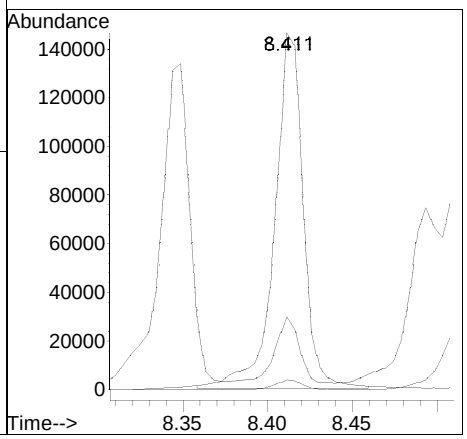


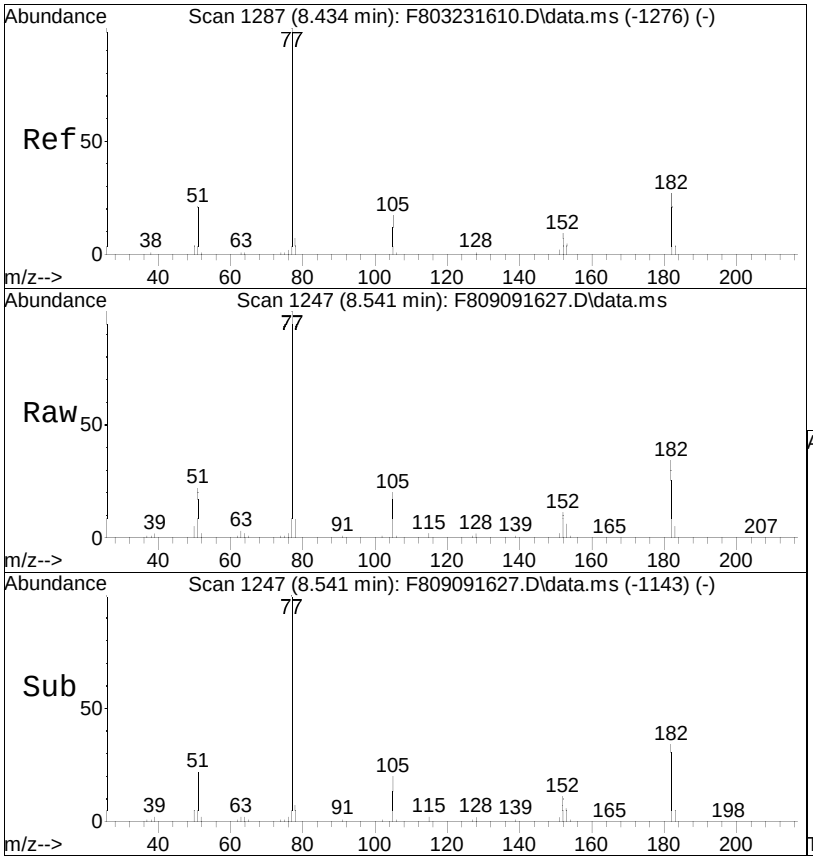


#62
4,6-Dinitro-2-methylphenol
Concen: 9.52 ug/mL M4
RT: 8.411 min Scan# 1220
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:198 Resp: 171063

Ion	Ratio	Lower	Upper
198	100		
182	2.8	2.2	3.2
77	16.2	16.8	25.2#

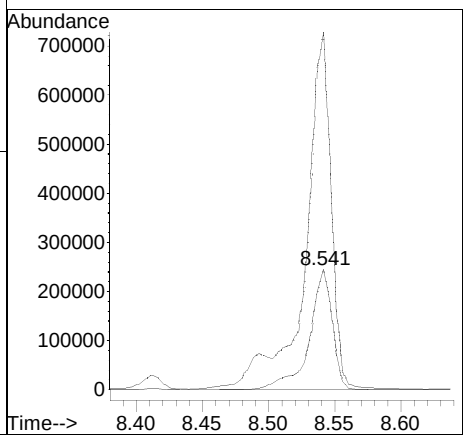


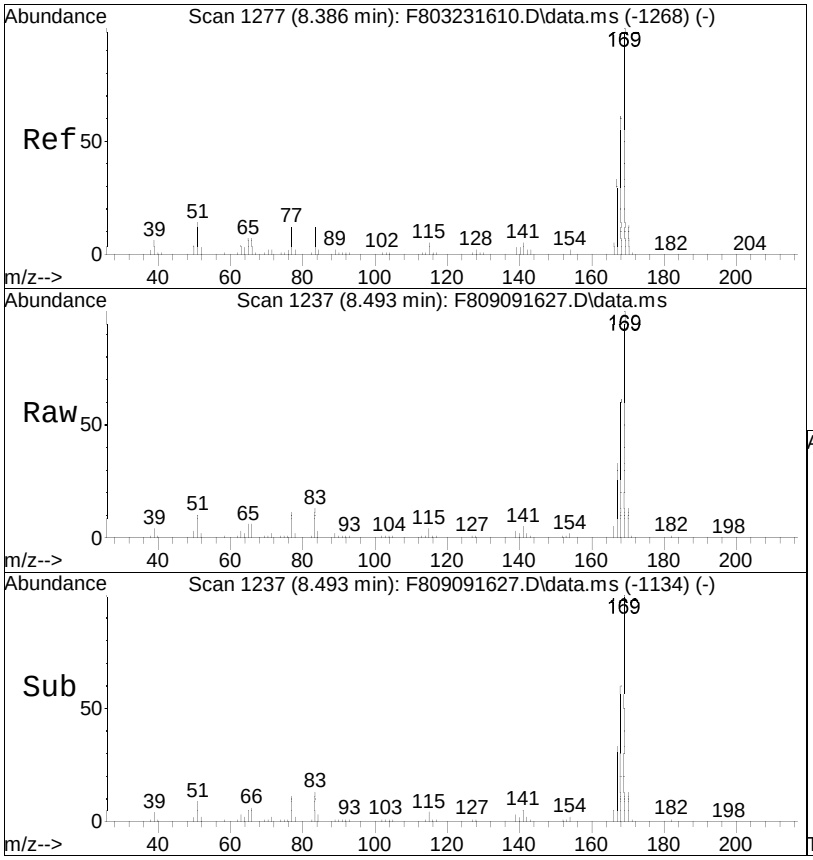


#63
Azobenzene
Concen: 9.31 ug/mL
RT: 8.541 min Scan# 1247
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:182 Resp: 297633

Ion	Ratio	Lower	Upper
182	100		
77	288.0	54.9	631.7

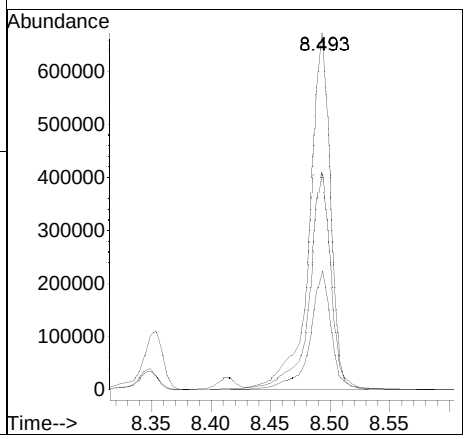


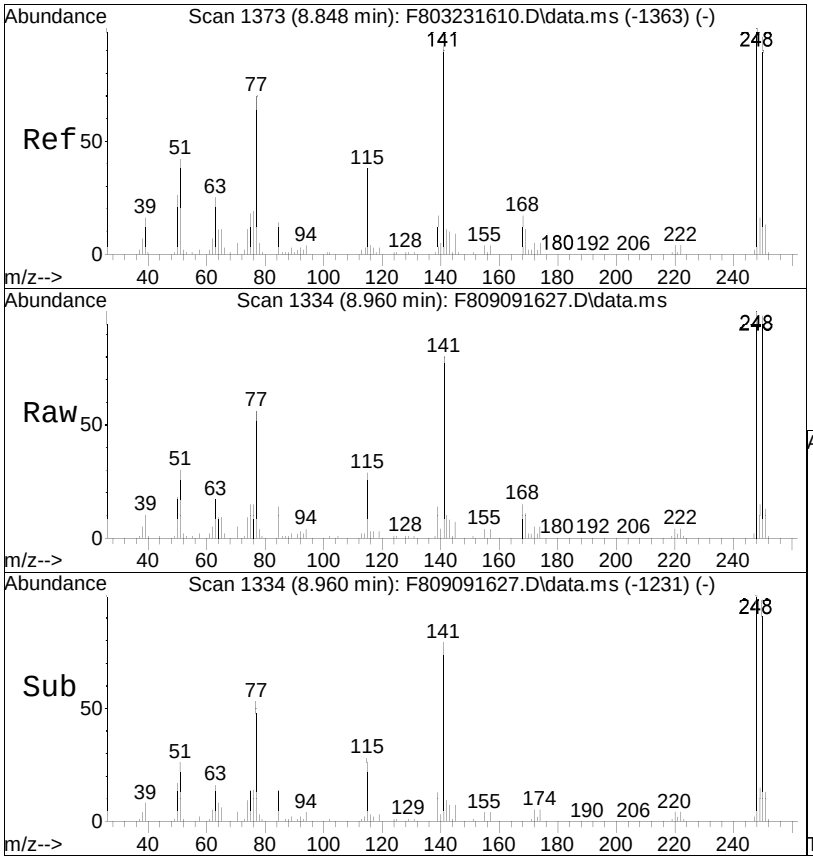


#64
n-Nitrosodiphenylamine
Concen: 9.94 ug/mL
RT: 8.493 min Scan# 1237
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:169 Resp: 831731

Ion	Ratio	Lower	Upper
169	100		
168	60.9	49.4	74.2
167	33.5	26.7	40.1

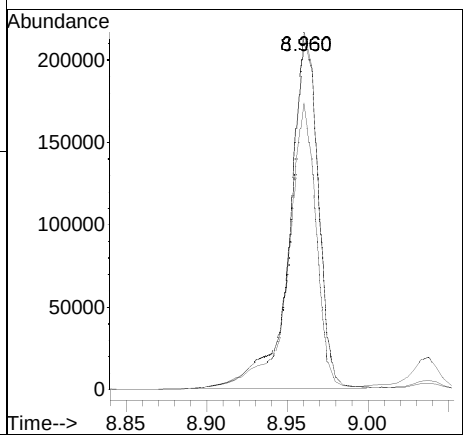


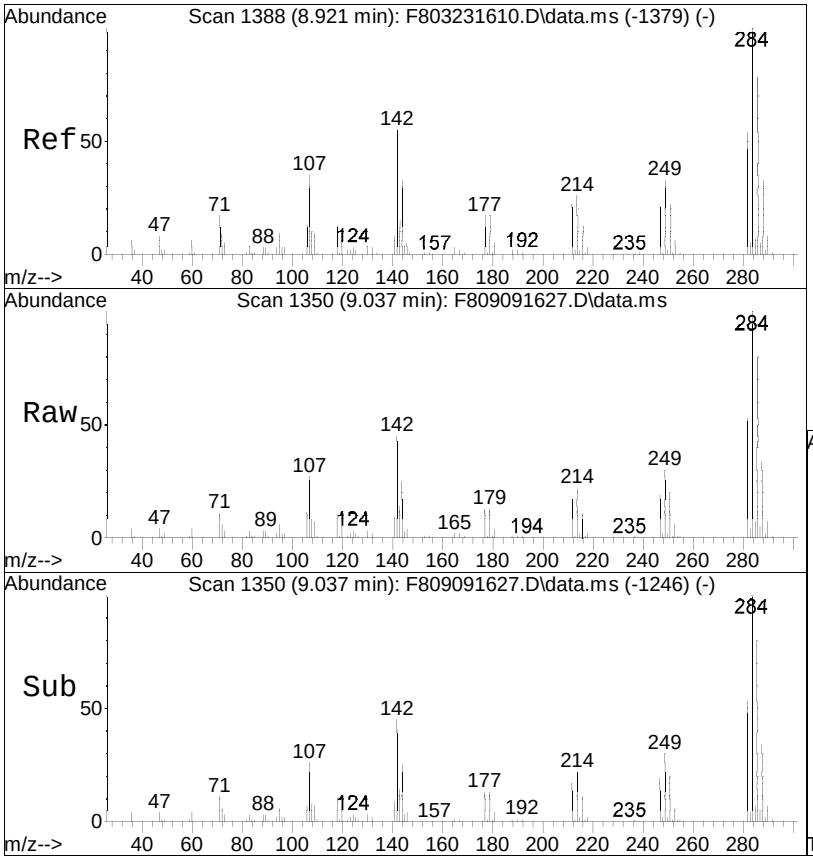


#66
4-Bromophenyl-phenylether
Concen: 9.16 ug/mL M4
RT: 8.960 min Scan# 1334
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:248 Resp: 267845

Ion	Ratio	Lower	Upper
248	100		
250	92.7	77.3	115.9
141	72.1	61.7	92.5

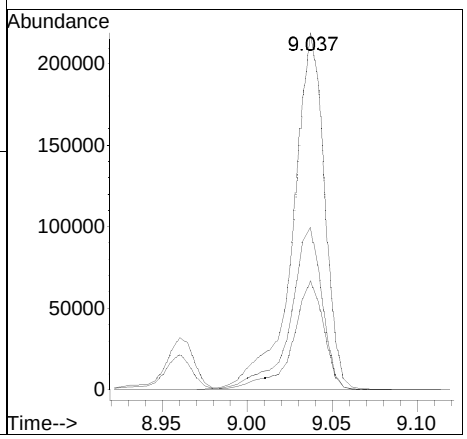


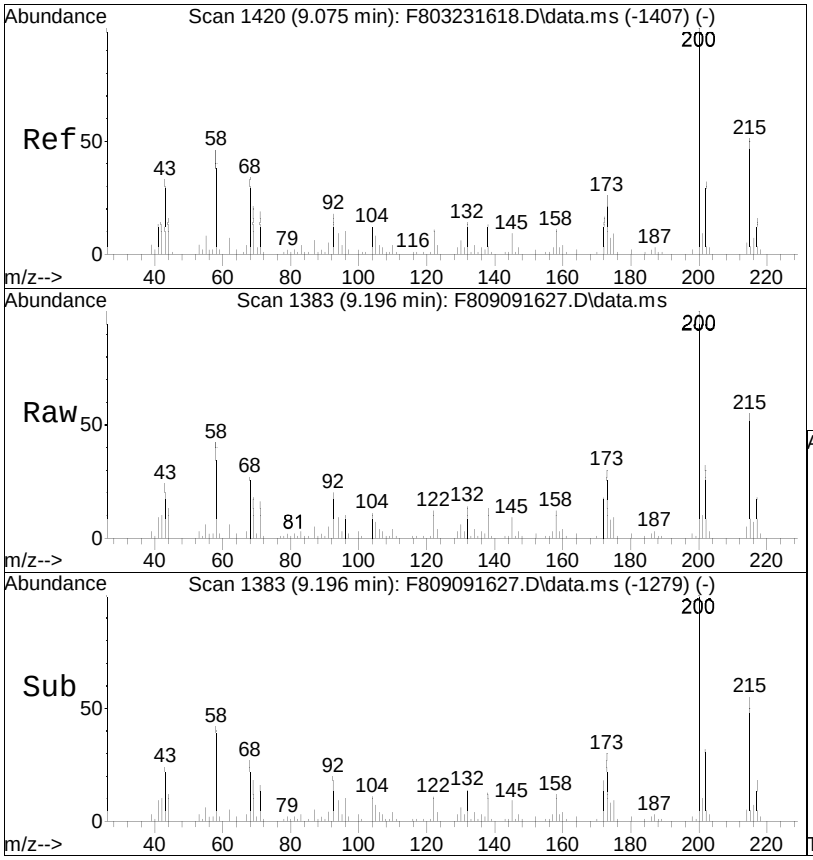


#67
Hexachlorobenzene
Concen: 9.35 ug/mL
RT: 9.037 min Scan# 1350
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:284 Resp: 285823

Ion	Ratio	Lower	Upper
284	100		
142	44.9	37.8	56.6
249	30.2	24.8	37.2

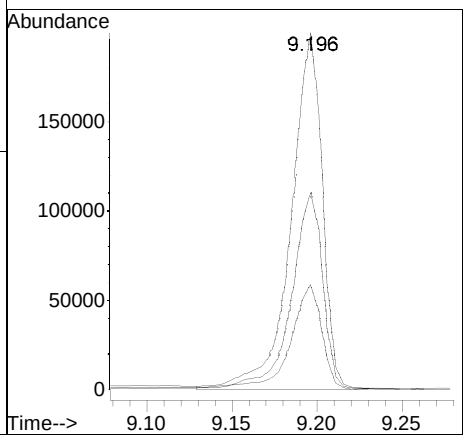


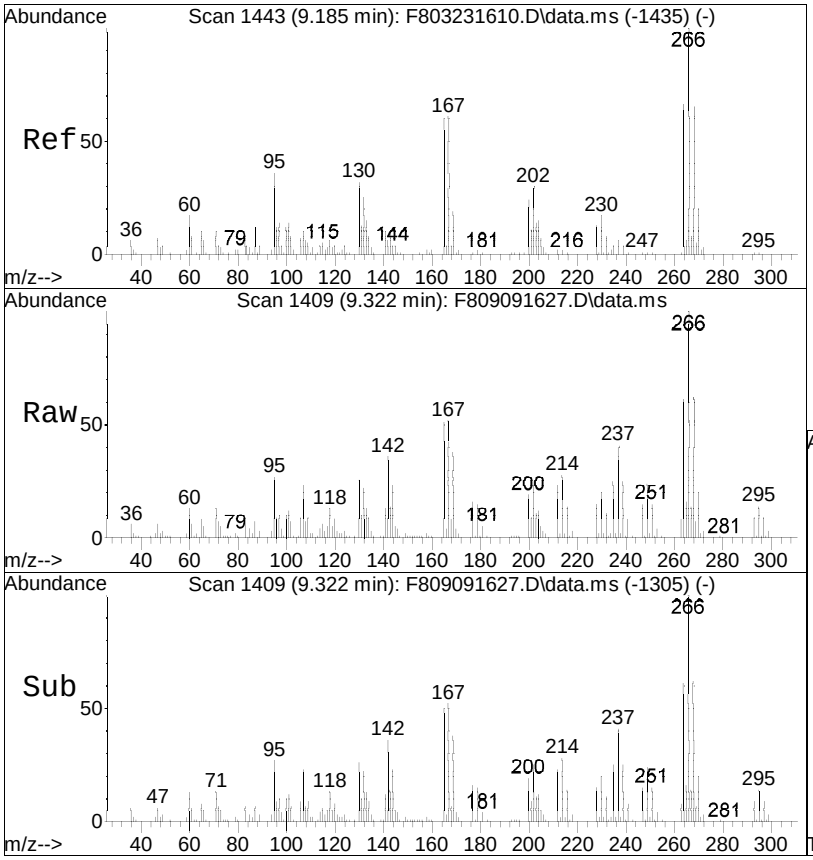


#68
Atrazine
Concen: 7.87 ug/ml
RT: 9.196 min Scan# 1383
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:200 Resp: 254150

Ion	Ratio	Lower	Upper
200	100		
173	28.0	22.4	33.6
215	54.6	43.8	65.6

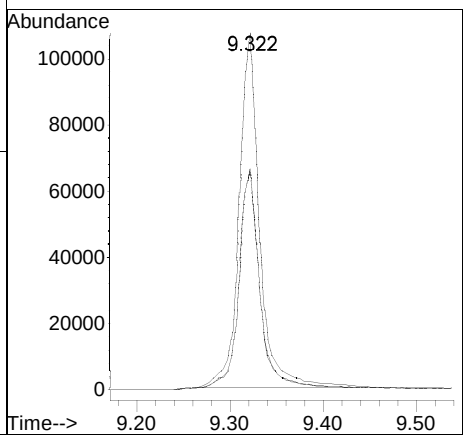


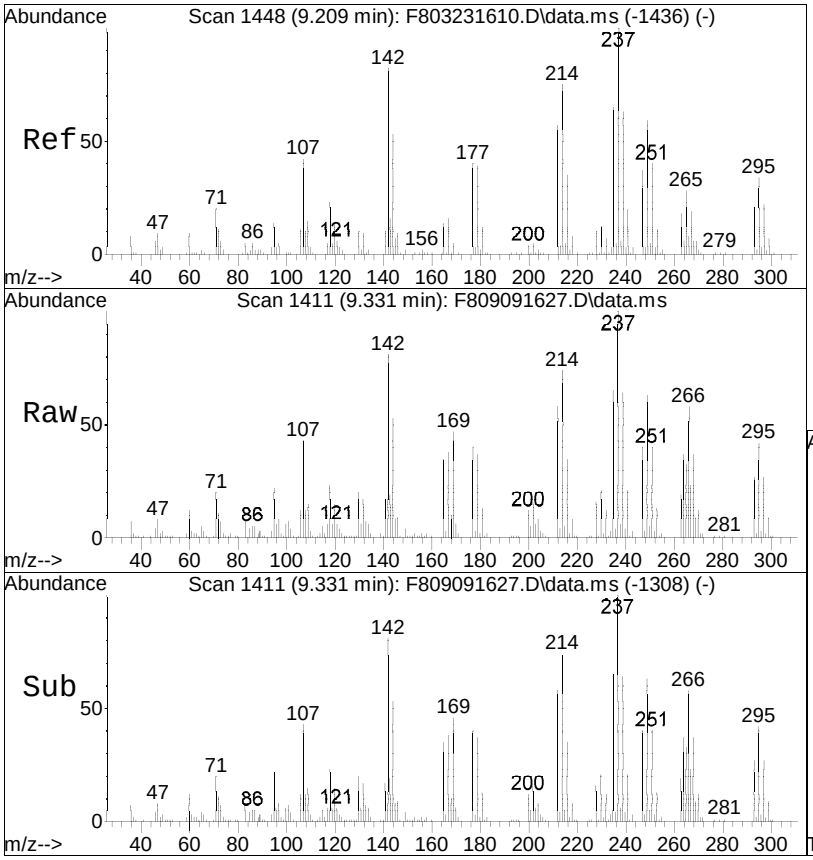


#69
Pentachlorophenol
Concen: 9.75 ug/mL M4
RT: 9.322 min Scan# 1409
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:266 Resp: 163204

Ion	Ratio	Lower	Upper
266	100		
264	61.5	49.7	74.5
268	62.2	48.1	72.1

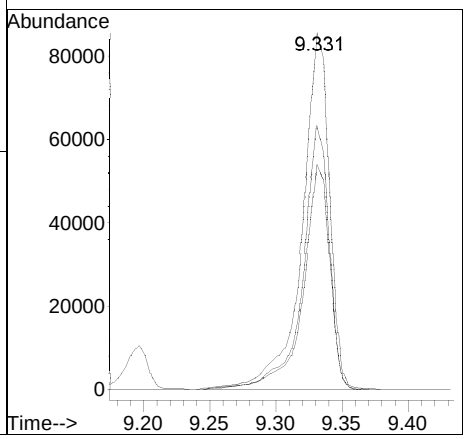


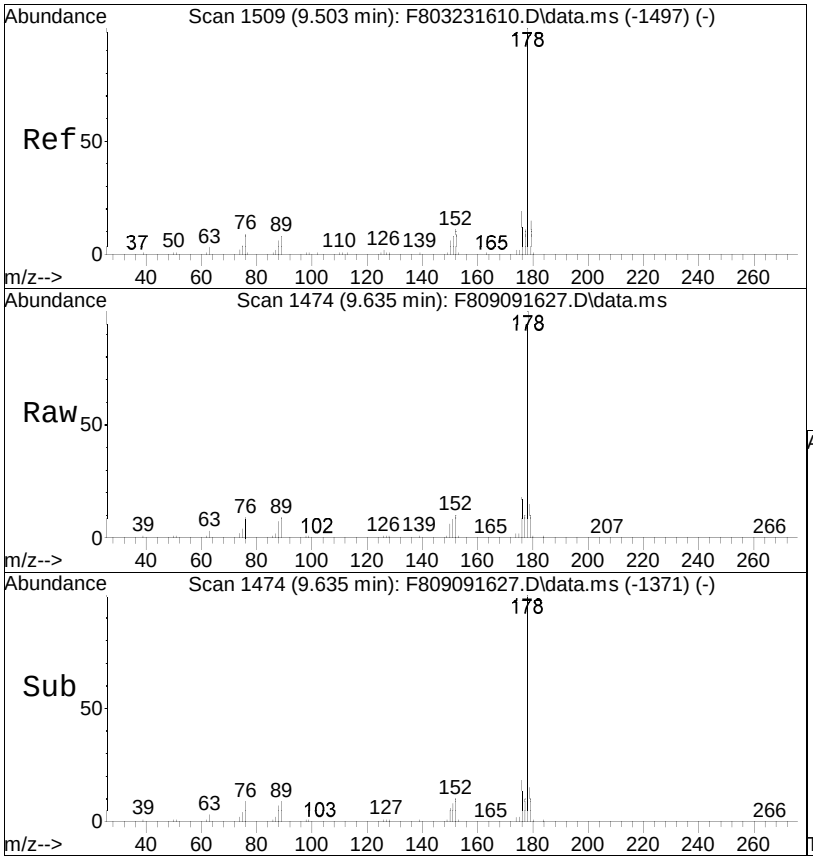


#70
Pentachloronitrobenzene
Concen: 10.22 ug/ml
RT: 9.331 min Scan# 1411
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:237 Resp: 124438

Ion	Ratio	Lower	Upper
237	100		
214	71.1	63.4	95.2
249	61.5	54.9	82.3

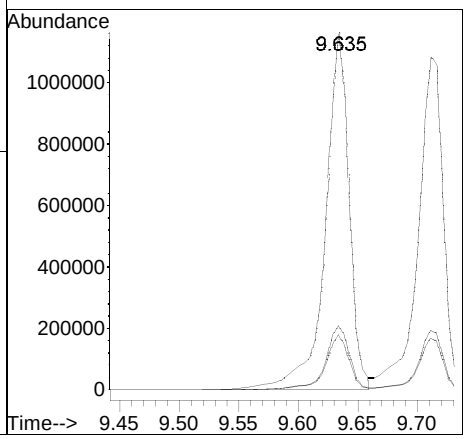


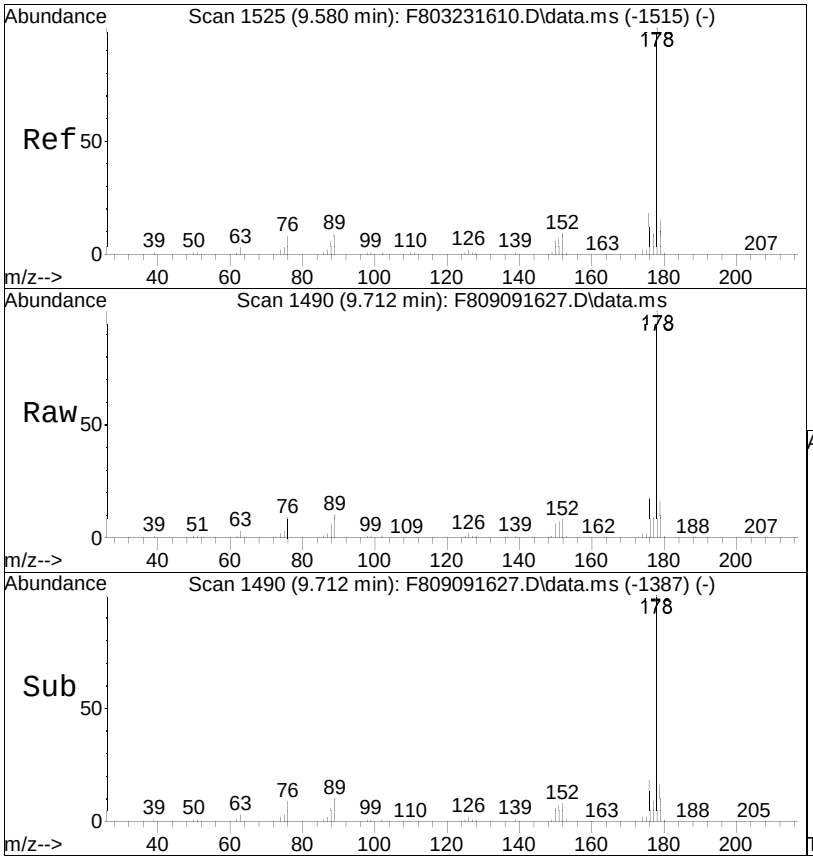


#71
Phenanthrene
Concen: 9.46 ug/mL
RT: 9.635 min Scan# 1474
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:178 Resp: 1619636

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.4	18.6
176	18.1	15.0	22.6

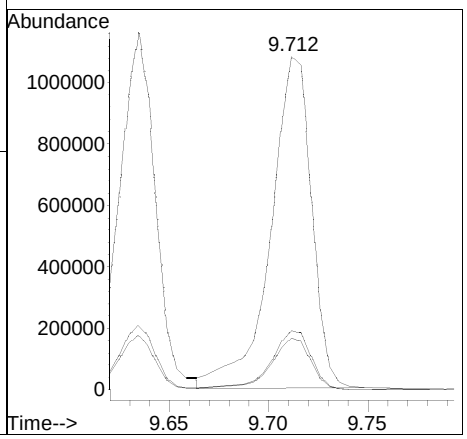


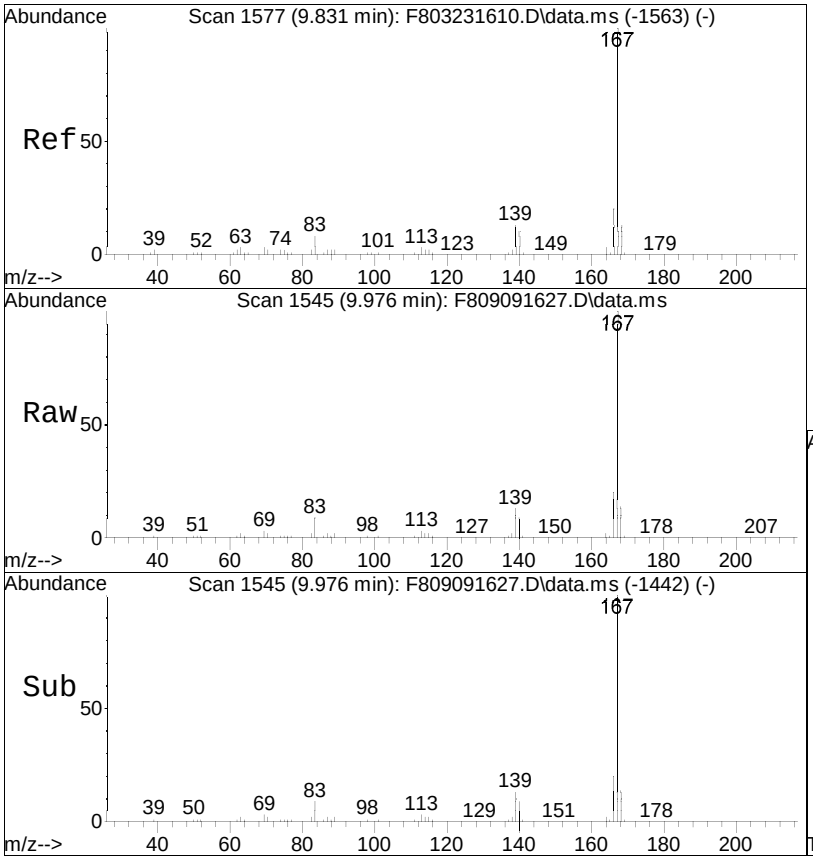


#72
Anthracene
Concen: 9.11 ug/mL
RT: 9.712 min Scan# 1490
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:178 Resp: 1541027

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.6	18.8
176	17.6	14.6	22.0

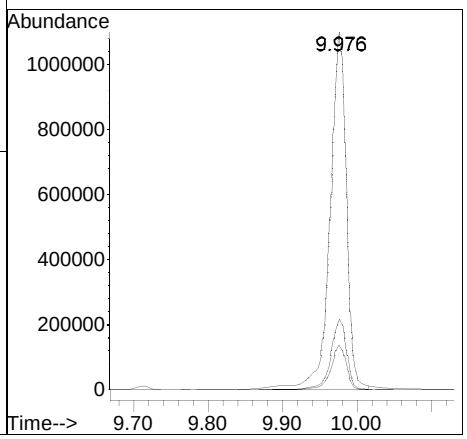


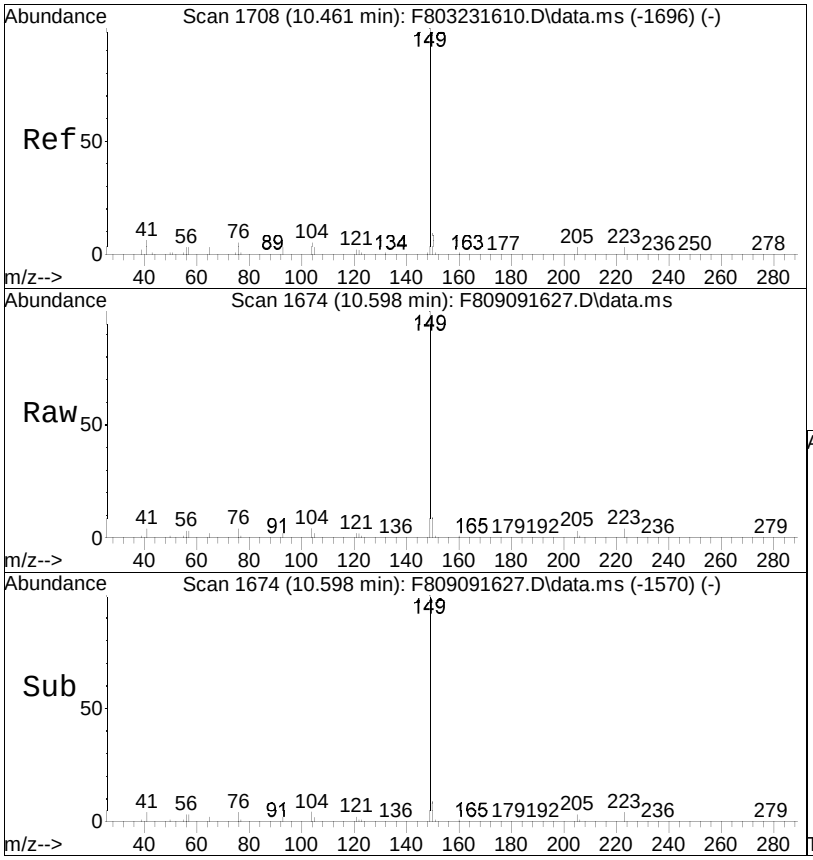


#73
Carbazole
Concen: 10.24 ug/mL
RT: 9.976 min Scan# 1545
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:167 Resp: 1662654

Ion	Ratio	Lower	Upper
167	100		
139	12.5	10.3	15.5
166	19.8	15.9	23.9

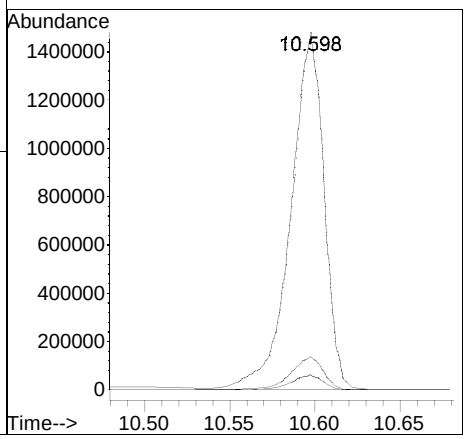


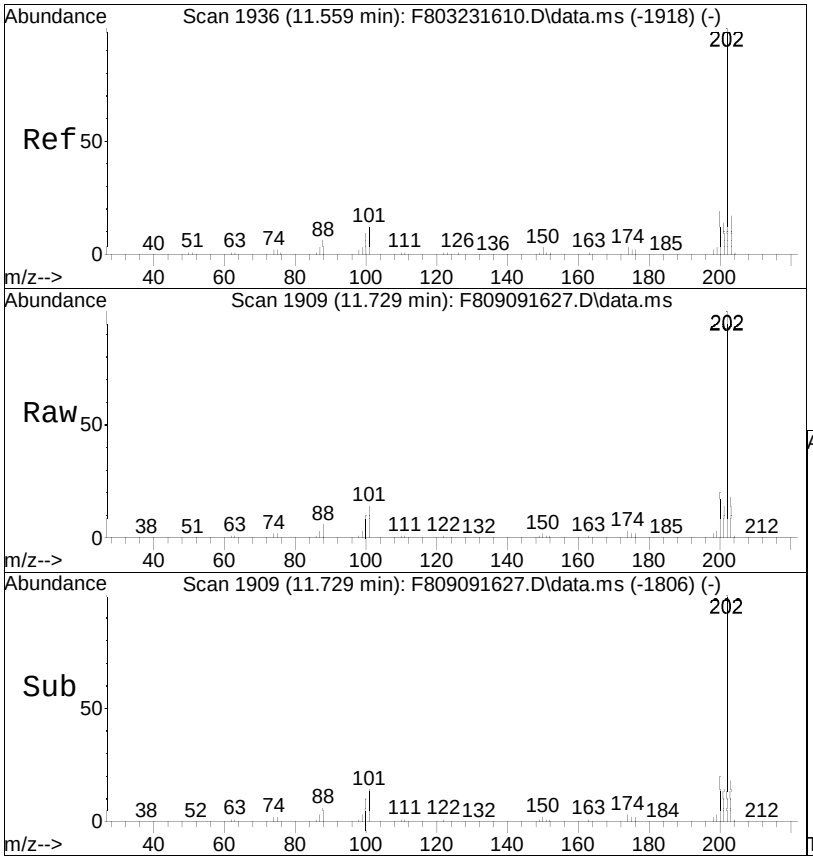


#74
Di-n-butylphthalate
Concen: 10.07 ug/mL
RT: 10.598 min Scan# 1674
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:149 Resp: 1977798

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.2
104	4.1	3.5	5.3

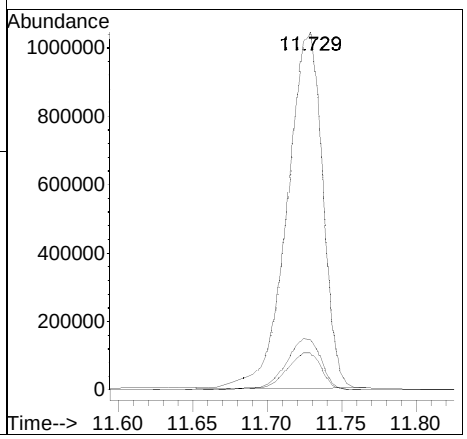


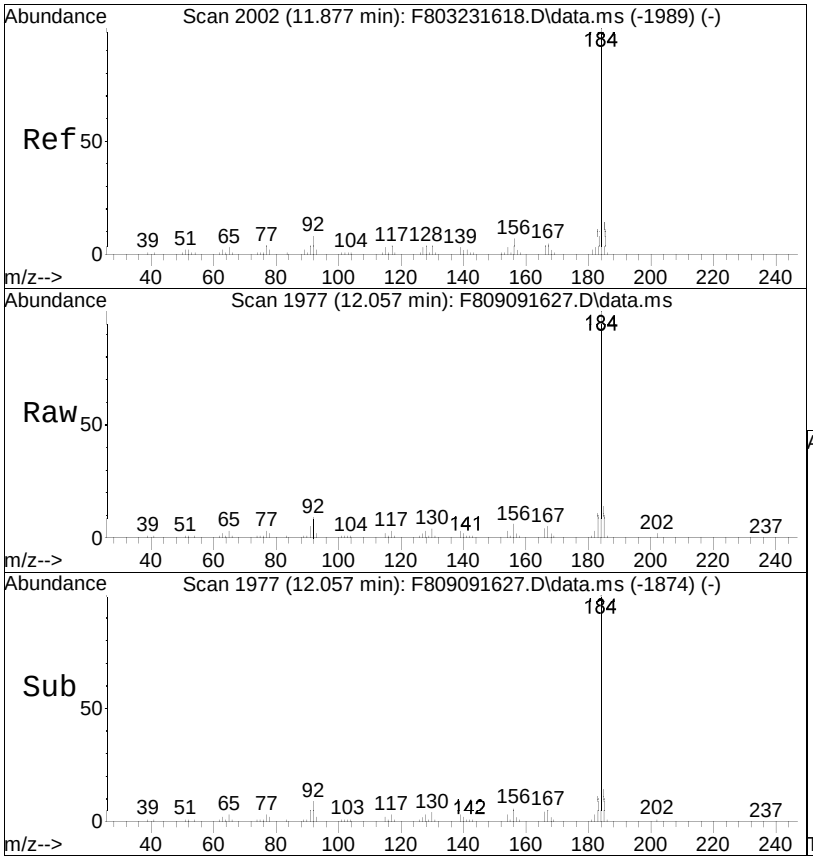


#75
Fluoranthene
Concen: 9.69 ug/mL
RT: 11.729 min Scan# 1909
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:202 Resp: 1714667

Ion	Ratio	Lower	Upper
202	100		
101	14.5	13.4	20.2
100	10.5	9.4	14.2

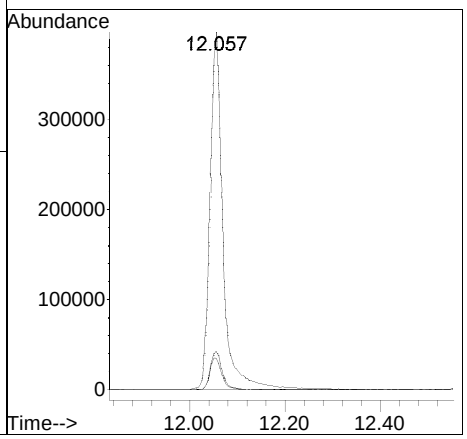


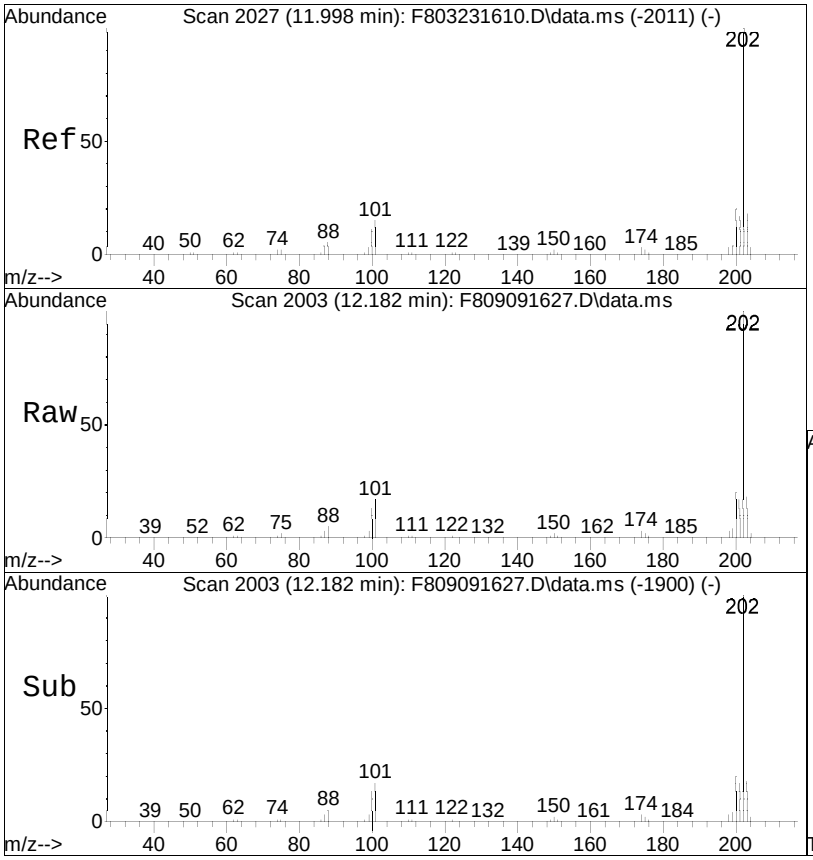


#77
Benzidine
Concen: 6.07 ug/mL
RT: 12.057 min Scan# 1977
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:184 Resp: 721031

Ion	Ratio	Lower	Upper
184	100		
183	10.9	9.0	13.4
92	8.9	7.4	11.2

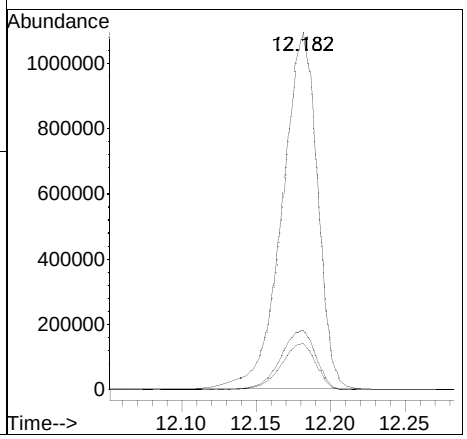


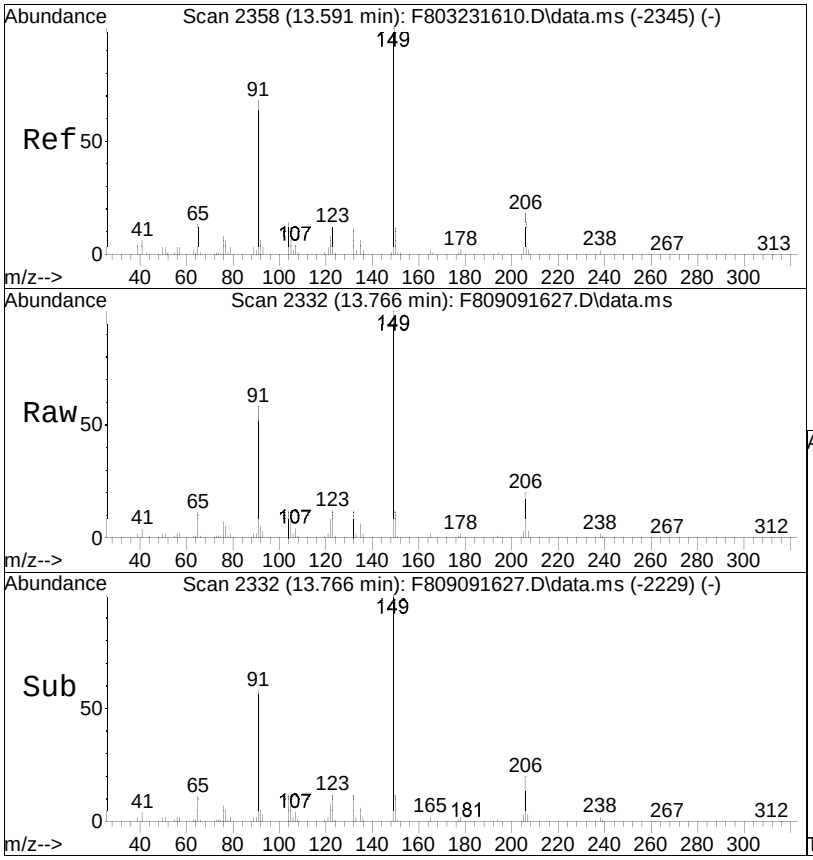


#78
Pyrene
Concen: 9.85 ug/mL
RT: 12.182 min Scan# 2003
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:202 Resp: 1770523

Ion	Ratio	Lower	Upper
202	100		
101	17.2	14.9	22.3
100	13.3	11.4	17.2

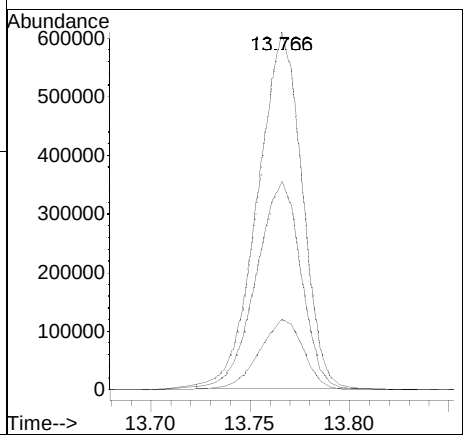


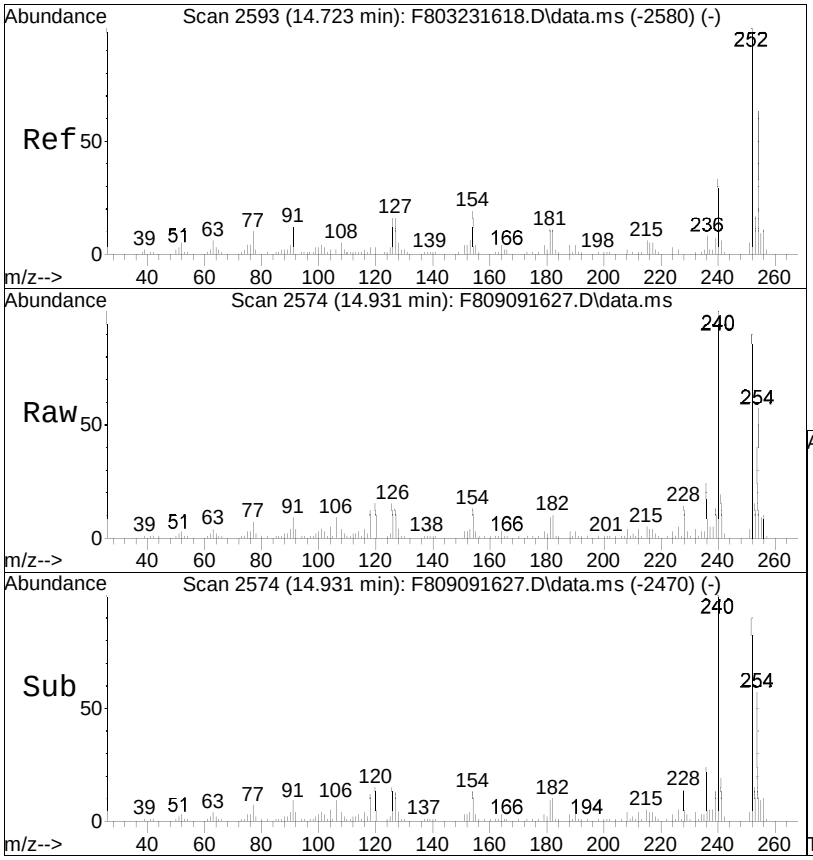


#80
Butylbenzylphthalate
Concen: 10.62 ug/mL
RT: 13.766 min Scan# 2332
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:149 Resp: 936378

Ion	Ratio	Lower	Upper
149	100		
91	60.2	50.8	76.2
206	19.7	15.0	22.4

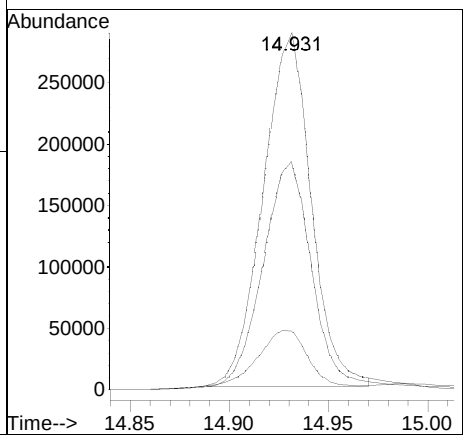


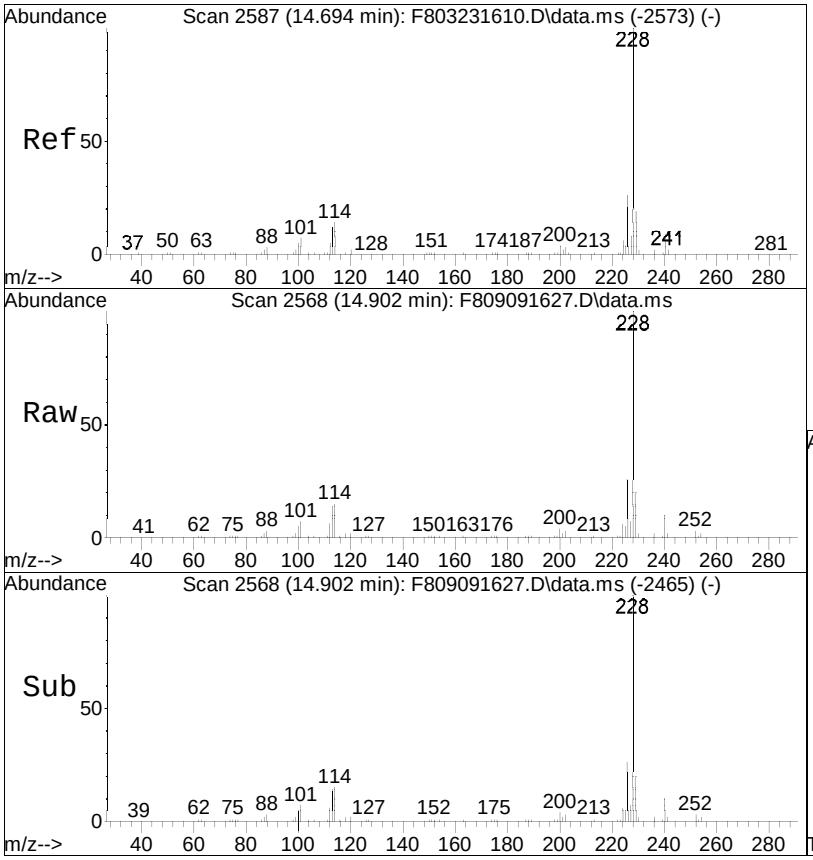


#81
3,3'-Dichlorobenzidine
Concen: 8.29 ug/mL
RT: 14.931 min Scan# 2574
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:252 Resp: 489007

Ion	Ratio	Lower	Upper
252	100		
254	64.3	52.0	78.0
126	19.1	13.6	20.4

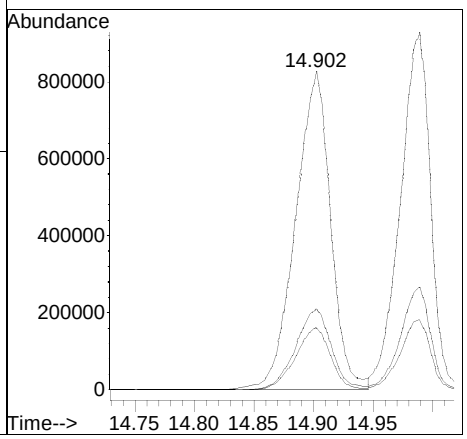


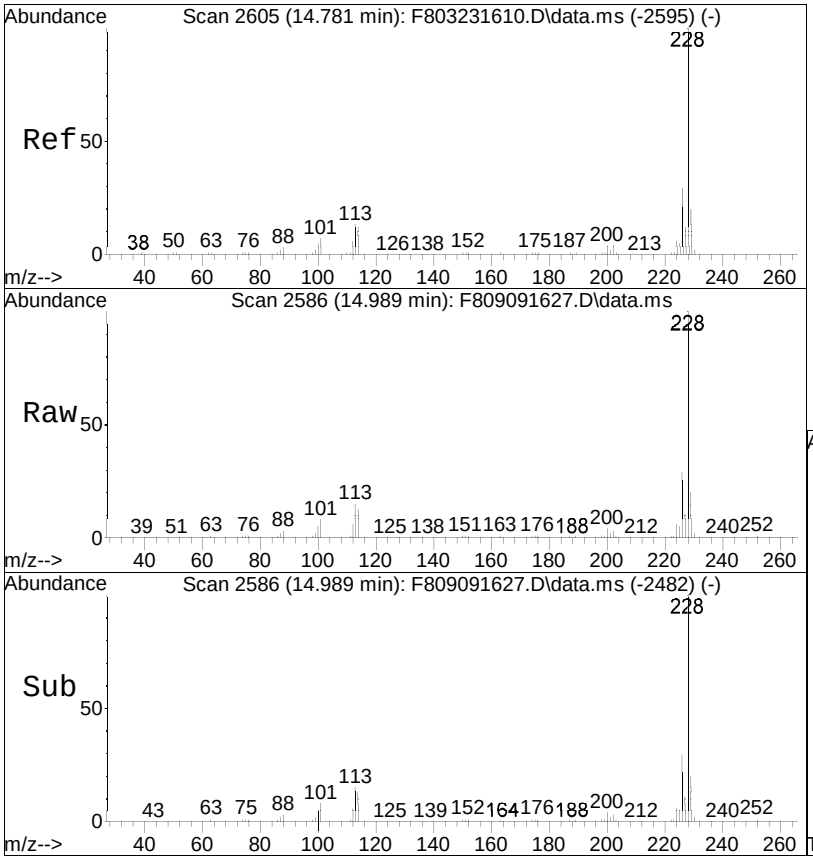


#82
Benz[a]anthracene
Concen: 9.86 ug/mL
RT: 14.902 min Scan# 2568
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:228 Resp: 1680242

Ion	Ratio	Lower	Upper
228	100		
229	19.8	15.9	23.9
226	26.0	21.2	31.8

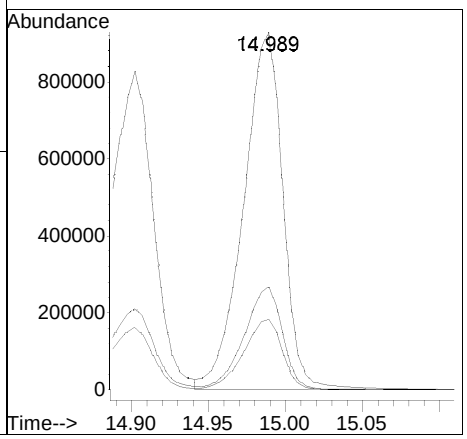


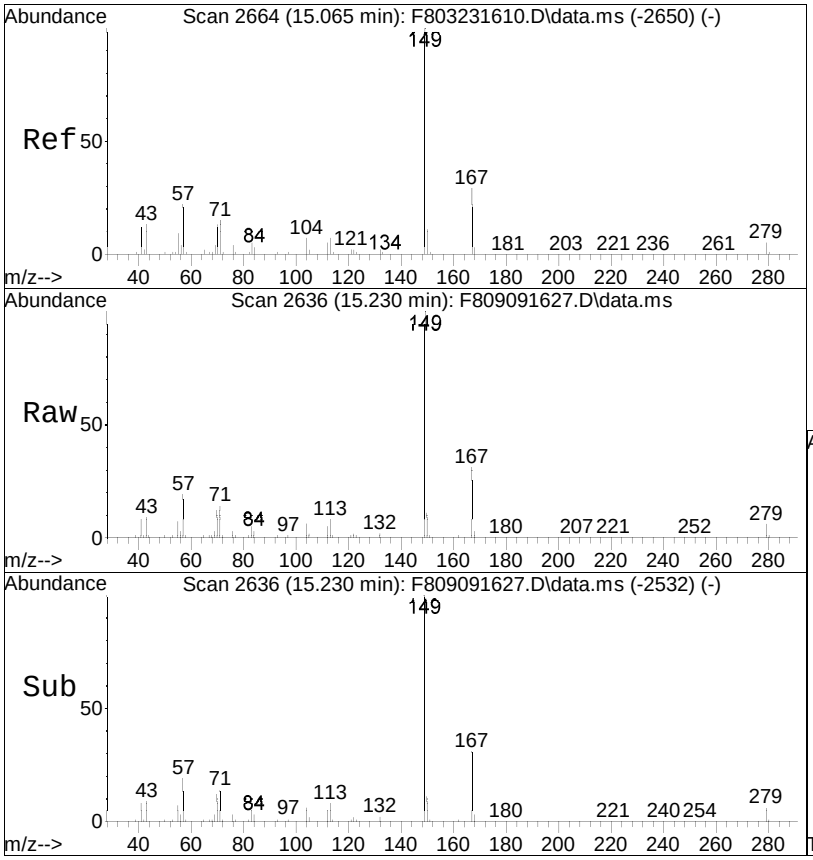


#83
Chrysene
Concen: 10.30 ug/mL M4
RT: 14.989 min Scan# 2586
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:228 Resp: 1628511

Ion	Ratio	Lower	Upper
228	100		
226	27.7	23.7	35.5
229	19.3	15.8	23.8

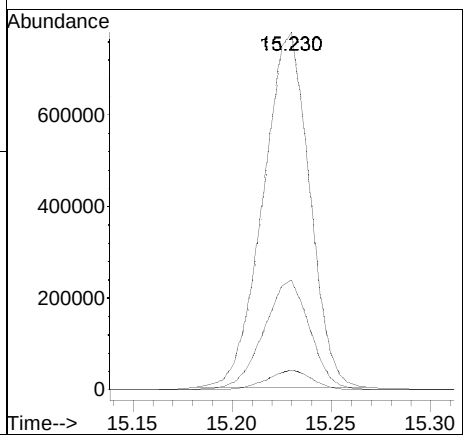


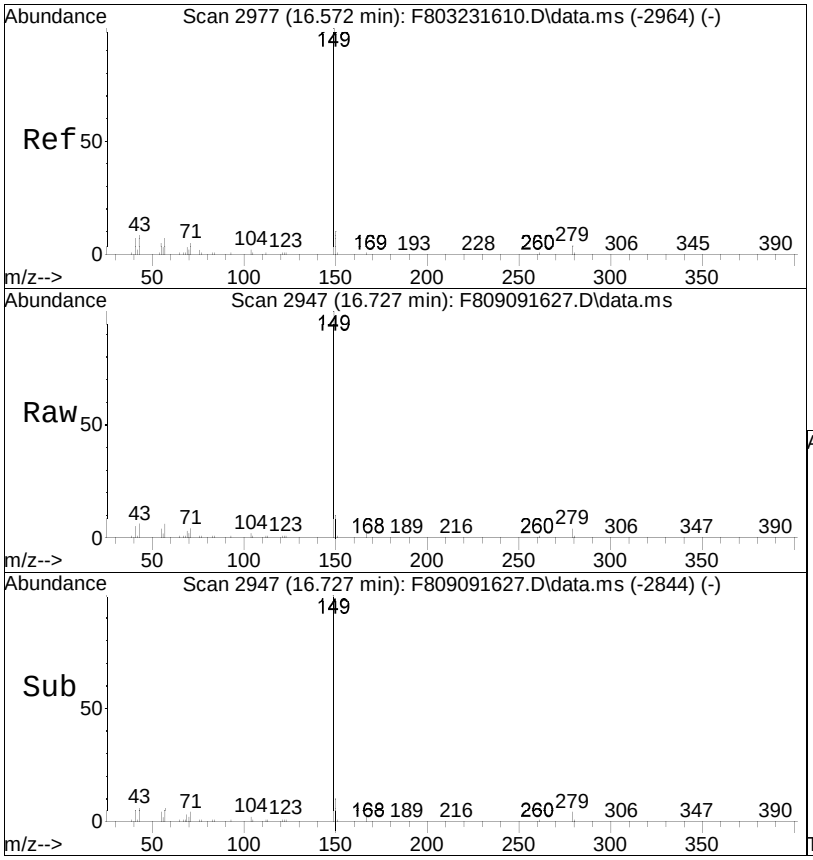


#84
bis(2-Ethylhexyl)phthalate
Concen: 10.76 ug/mL
RT: 15.230 min Scan# 2636
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:149 Resp: 1247836

Ion	Ratio	Lower	Upper
149	100		
167	30.3	23.8	35.6
279	5.4	4.0	6.0

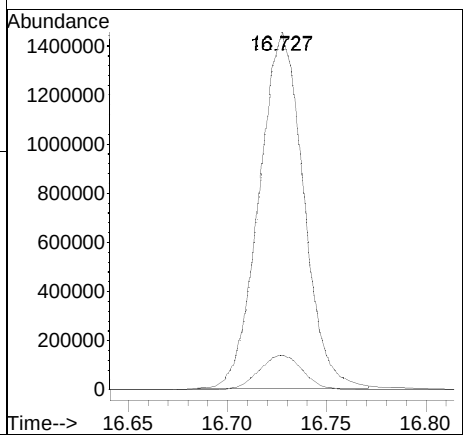


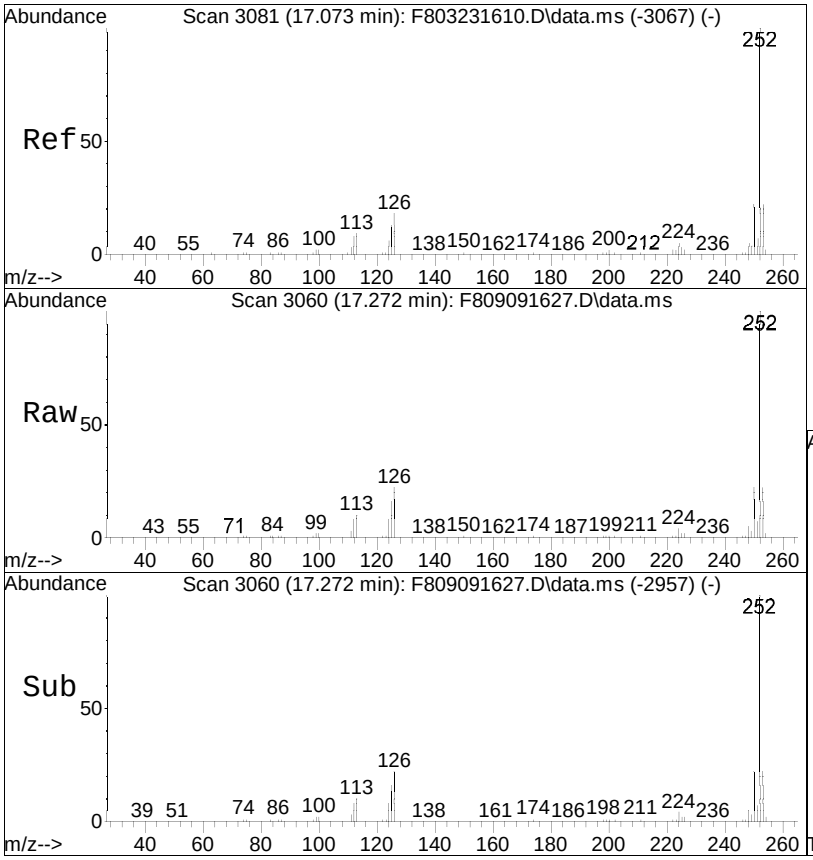


#86
Di-n-octylphthalate
Concen: 10.57 ug/mL
RT: 16.727 min Scan# 2947
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:149 Resp: 2223219

Ion	Ratio	Lower	Upper
149	100		
150	9.8	8.1	12.1

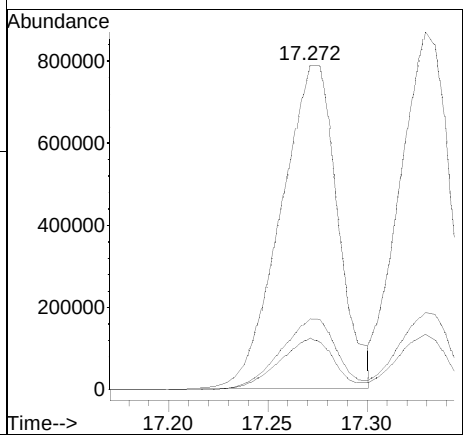


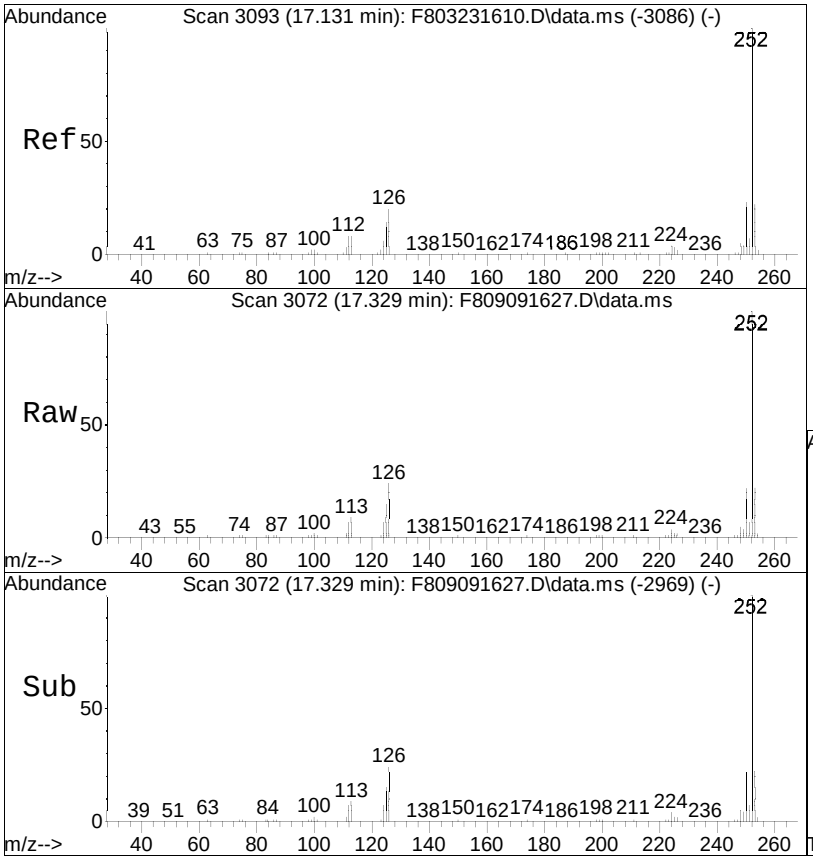


#87
Benzo[b]fluoranthene
Concen: 9.69 ug/mL
RT: 17.272 min Scan# 3060
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:252 Resp: 1566477

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	16.0	13.7	20.5

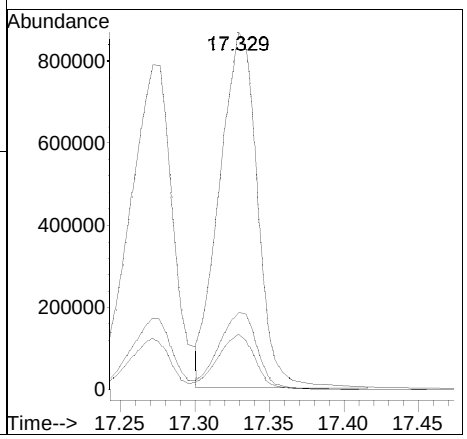


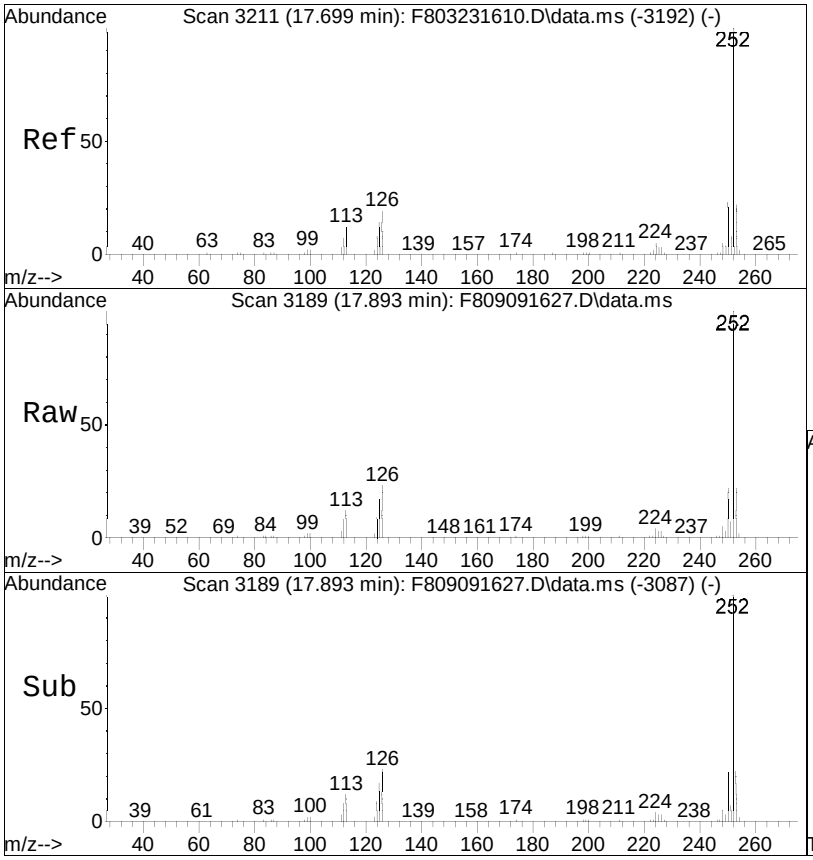


#88
Benzo[k]fluoranthene
Concen: 10.43 ug/mL M4
RT: 17.329 min Scan# 3072
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:252 Resp: 1541154

Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.3	25.9
125	14.7	13.3	19.9

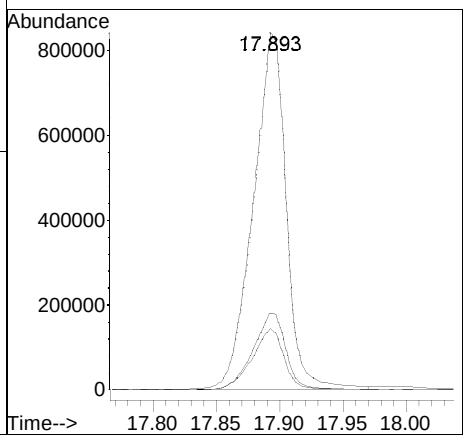


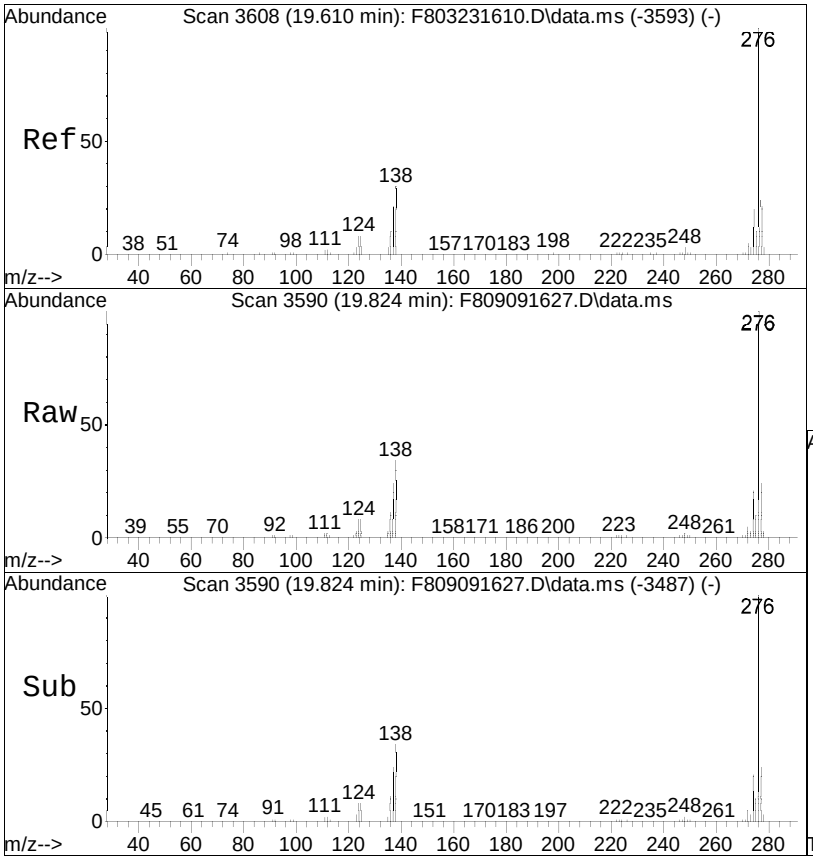


#89
Benzo[a]pyrene
Concen: 9.84 ug/mL M4
RT: 17.893 min Scan# 3189
Delta R.T. -0.010 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:252 Resp: 1497308

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0
125	16.5	14.3	21.5

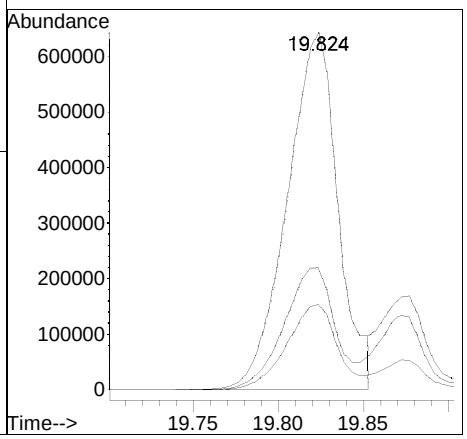


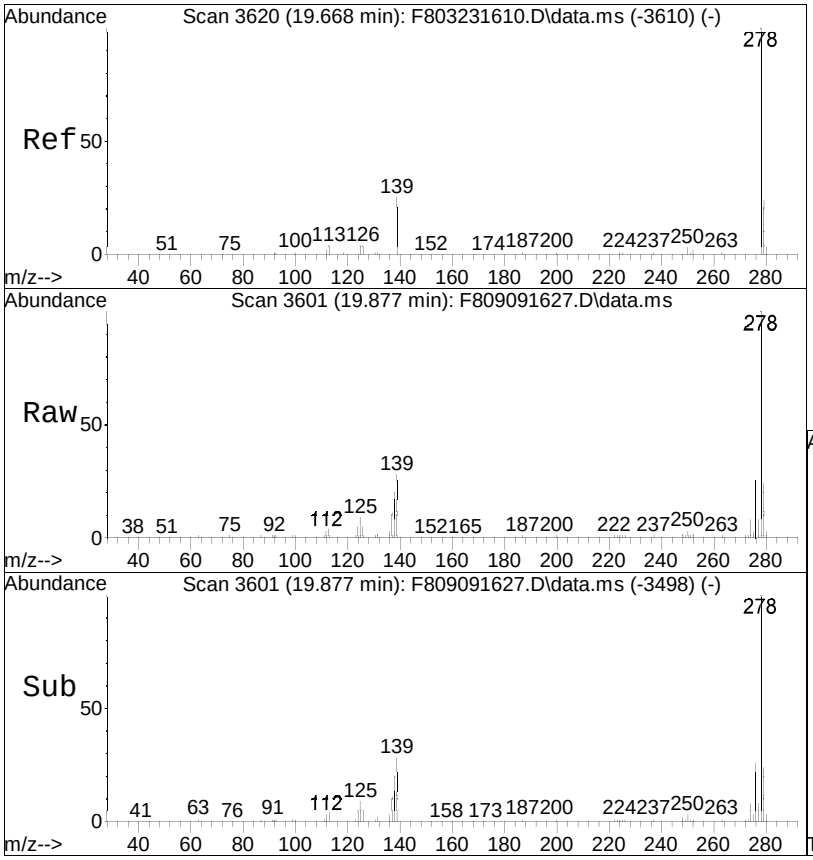


#90
Indeno[1,2,3-cd]pyrene
Concen: 9.99 ug/mL
RT: 19.824 min Scan# 3590
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:276 Resp: 1322244

Ion	Ratio	Lower	Upper
276	100		
138	36.2	28.2	42.2
277	24.5	19.4	29.0

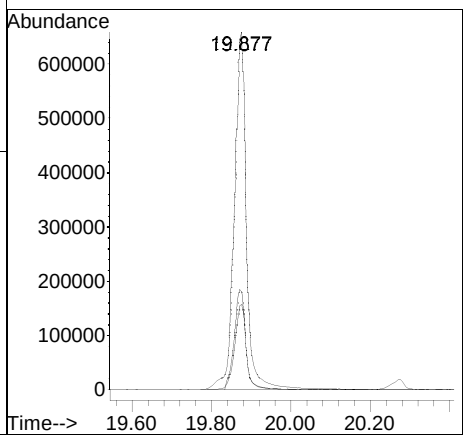


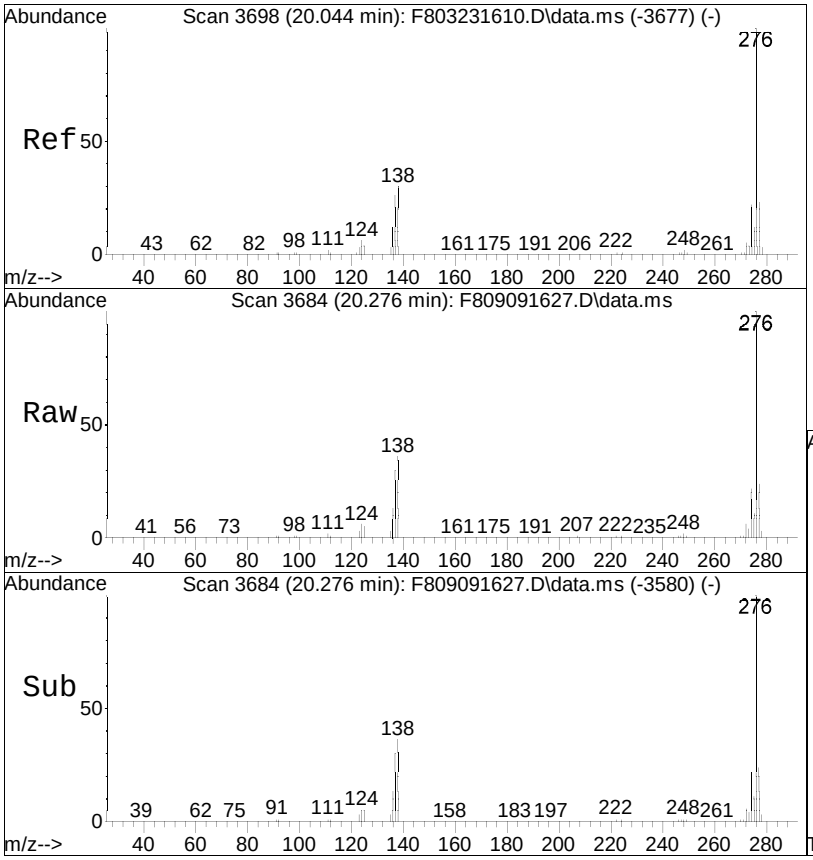


#91
Dibenz[a,h]anthracene
Concen: 10.43 ug/mL
RT: 19.877 min Scan# 3601
Delta R.T. -0.005 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:278 Resp: 1390769

Ion	Ratio	Lower	Upper
278	100		
139	26.8	23.4	35.0
279	23.4	19.4	29.0

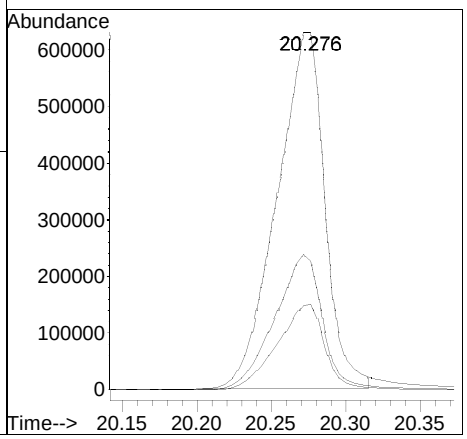




#92
Benzo[g,h,i]perylene
Concen: 9.73 ug/mL
RT: 20.276 min Scan# 3684
Delta R.T. 0.000 min
Lab File: F809091627.D
Acq: 10 Sep 2016 12:49 am

Tgt Ion:276 Resp: 1393573

Ion	Ratio	Lower	Upper
276	100		
138	37.5	31.4	47.2
277	23.7	19.4	29.0



Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091625.D
Acq On : 9 Sep 2016 11:48 pm
Operator : BNA8:ML
Sample : WG929407-6
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 12 14:35:02 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	235273	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	861052	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	455939	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	727796M4	5.000	ug/mL	0.00
76) Chrysene-d12	14.922	240	690039	5.000	ug/mL	0.00
85) Perylene-d12	17.999	264	633663	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.832	112	711989	12.600	ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 63.00%			
8) Phenol-d5	4.550	99	979462	14.308	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 71.54%			
22) Nitrobenzene-d5	5.378	82	718932	14.309	ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 71.54%			
43) 2-Fluorobiphenyl	7.078	172	1852226	16.100	ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 80.50%			
65) 2,4,6-Tribromophenol	8.647	330	242131	22.619	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 113.09%			
79) Terphenyl-d14	12.586	244	2206064	20.438	ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 102.19%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.932	74	212311	7.513	ug/mL#	97
3) Pyridine	2.961	79	300493	5.450	ug/mL	99
5) Benzaldehyde	4.511	77	247795	5.616	ug/ml	100
6) Aniline	4.598	93	560456M4	6.749	ug/ml	
7) bis(2-Chloroethyl)ether	4.641	63	247110	7.011	ug/mL	95
9) Phenol	4.559	94	525478	7.491	ug/mL#	87
10) 2-Chlorophenol	4.699	128	446458	7.021	ug/mL	99
11) 1,3-Dichlorobenzene	4.829	146	466437	6.649	ug/mL	100
12) 1,4-Dichlorobenzene	4.891	146	466907	6.690	ug/mL	99
13) 1,2-Dichlorobenzene	5.026	146	449862	6.784	ug/mL	100
14) Benzyl alcohol	4.993	108	316798	8.380	ug/mL	99
15) bis(2-chloroisopropyl)eth	5.103	45	348192	7.117	ug/mL#	14
16) 2-Methylphenol	5.084	108	368923M4	7.470	ug/mL	
17) Acetophenone	5.233	105	526577	6.977	ug/ml#	77
18) Hexachloroethane	5.330	117	165446	6.492	ug/mL	92
19) N-Nitroso-di-n-propylamin	5.229	70	277930	8.058	ug/mL	94
20) 4-Methylphenol	5.224	108	411553	7.713	ug/mL	97
23) Nitrobenzene	5.392	77	373845	7.485	ug/mL	95

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091625.D
Acq On : 9 Sep 2016 11:48 pm
Operator : BNA8:ML
Sample : WG929407-6
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 12 14:35:02 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Isophorone	5.609	82	733443	9.126	ug/mL	96
25) 2-Nitrophenol	5.681	139	261663	8.014	ug/mL#	89
26) 2,4-Dimethylphenol	5.715	107	334838	6.448	ug/mL	97
27) Benzoic acid	5.879	105	842343M4	32.662	ug/mL	
28) bis(2-Chloroethoxy)methan	5.802	93	488478	8.391	ug/mL	99
29) 2,4-Dichlorophenol	5.908	162	395369	8.323	ug/mL	99
30) 1,2,4-Trichlorobenzene	5.985	180	368925	7.153	ug/mL	99
31) Naphthalene	6.062	128	1203364	7.273	ug/mL	99
32) 2-Chloroaniline	5.652	127	658780	7.895	ug/ml	99
33) 4-Chloroaniline	6.115	127	597363M4	8.385	ug/mL	
34) Hexachlorobutadiene	6.172	225	184692	7.044	ug/mL	99
35) Caprolactam	6.471	113	176382M4	11.466	ug/ml	
36) 4-Chloro-3-methylphenol	6.577	107	433288	9.468	ug/mL	99
37) 2-Methylnaphthalene	6.721	142	902140	8.037	ug/mL	99
39) 1,2,4,5-Tetrachlorobenzen	6.880	216	389260	8.193	ug/mL	100
40) Hexachlorocyclopentadiene	6.871	237	146324	7.016	ug/mL	96
41) 2,4,6-Trichlorophenol	6.996	196	322678	9.426	ug/mL	99
42) 2,4,5-Trichlorophenol	7.034	196	314347M6	10.333	ug/mL	
44) Biphenyl	7.174	154	1060261	8.057	ug/ml	99
45) 2-Chloronaphthalene	7.198	162	868357	8.435	ug/mL	99
46) 2-Nitroaniline	7.299	65	241152	10.132	ug/mL	99
47) Acenaphthylene	7.607	152	1531268	8.995	ug/mL	99
48) Dimethylphthalate	7.472	163	1137111	10.268	ug/mL	100
49) 2,6-Dinitrotoluene	7.535	165	275623M4	10.714	ug/mL	
50) Acenaphthene	7.781	153	932500	9.004	ug/mL	98
51) 3-Nitroaniline	7.708	138	302247M4	10.268	ug/mL	
52) 2,4-Dinitrophenol	7.814	184	118733	9.776	ug/mL#	83
53) Dibenzofuran	7.968	168	1275129	9.430	ug/mL	99
54) 2,3,4,6-Tetrachlorophenol	8.098	232	236994M4	11.554	ug/mL	
55) 2,4-Dinitrotoluene	7.954	165	353889	10.724	ug/mL	89
56) 4-Nitrophenol	7.891	109	111739	10.022	ug/mL	94
57) Fluorene	8.354	166	1079498	9.692	ug/mL	100
58) 4-Chlorophenyl-phenylethe	8.349	204	486030	9.747	ug/mL	99
59) Diethylphthalate	8.214	149	1206216	10.656	ug/mL	99
60) 4-Nitroaniline	8.387	138	334500	11.002	ug/mL	96
62) 4,6-Dinitro-2-methylpheno	8.411	198	179198M4	10.628	ug/mL	
63) Azobenzene	8.541	182	314203	10.641	ug/mL	74
64) n-Nitrosodiphenylamine	8.493	169	857595	11.088	ug/mL	99
66) 4-Bromophenyl-phenylether	8.960	248	283049M4	10.479	ug/mL	
67) Hexachlorobenzene	9.037	284	294978	10.446	ug/mL	97
68) Atrazine	9.196	200	286314	9.596	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091625.D
Acq On : 9 Sep 2016 11:48 pm
Operator : BNA8:ML
Sample : WG929407-6
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 12 14:35:02 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Pentachlorophenol	9.322	266	165011M4	10.494	ug/mL	
70) Pentachloronitrobenzene	9.331	237	128435	11.418	ug/ml	91
71) Phenanthrene	9.635	178	1658458	10.483	ug/mL	99
72) Anthracene	9.712	178	1576462	10.087	ug/mL	99
73) Carbazole	9.976	167	1599130	10.654	ug/mL	99
74) Di-n-butylphthalate	10.598	149	2011211	11.077	ug/mL	100
75) Fluoranthene	11.724	202	1736115	10.613	ug/mL	95
77) Benzidine	12.052	184	661492	5.806	ug/mL	100
78) Pyrene	12.182	202	1821178	10.574	ug/mL	97
80) Butylbenzylphthalate	13.766	149	970594	11.486	ug/mL	95
81) 3,3'-Dichlorobenzidine	14.931	252	513389	9.084	ug/mL	99
82) Benz[a]anthracene	14.898	228	1704699	10.440	ug/mL	100
83) Chrysene	14.989	228	1648926M4	10.877	ug/mL	
84) bis(2-Ethylhexyl)phthalat	15.230	149	1263215	11.361	ug/mL	99
86) Di-n-octylphthalate	16.727	149	2257003	11.212	ug/mL	99
87) Benzo[b]fluoranthene	17.272	252	1593447	10.299	ug/mL	99
88) Benzo[k]fluoranthene	17.334	252	1550853M4	10.965	ug/mL	
89) Benzo[a]pyrene	17.893	252	1511336	10.369	ug/mL	99
90) Indeno[1,2,3-cd]pyrene	19.824	276	1356398	10.702	ug/mL	97
91) Dibenz[a,h]anthracene	19.872	278	1430758	11.203	ug/mL	97
92) Benzo[g,h,i]perylene	20.272	276	1422966	10.380	ug/mL	98

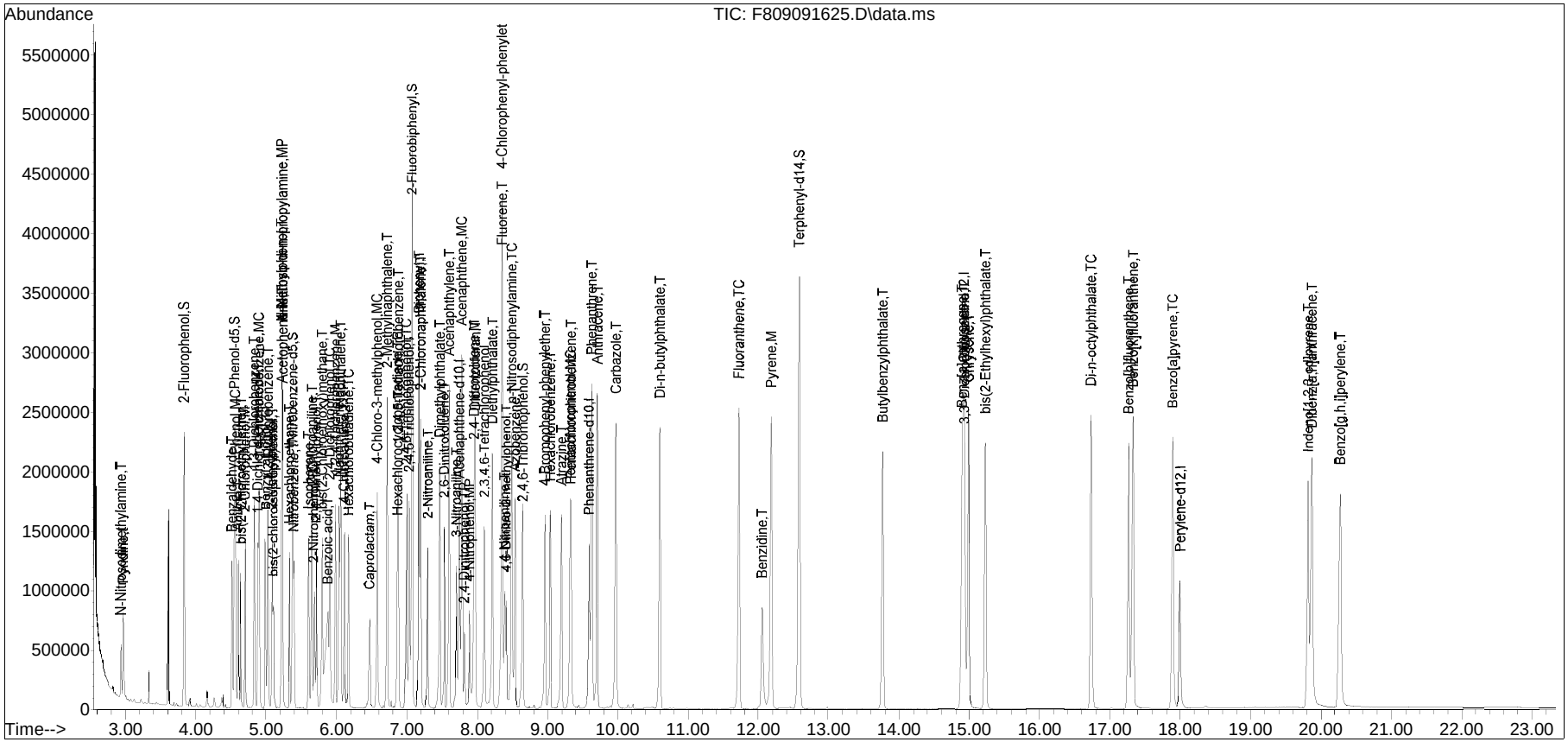
(#) = qualifier out of range (m) = manual integration (+) = signals summed

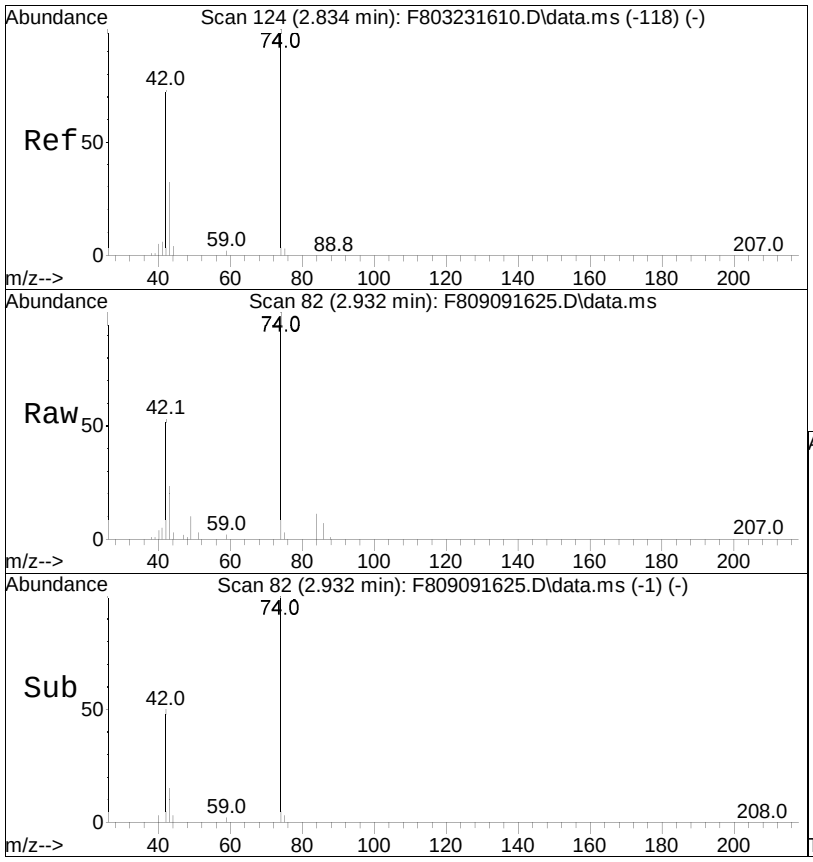
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091625.D
Acq On : 9 Sep 2016 11:48 pm
Operator : BNA8:ML
Sample : WG929407-6
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 12 14:35:02 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

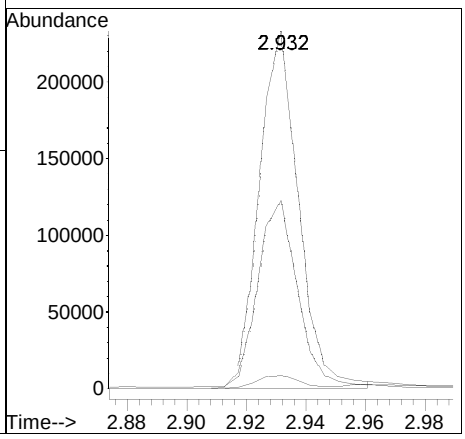


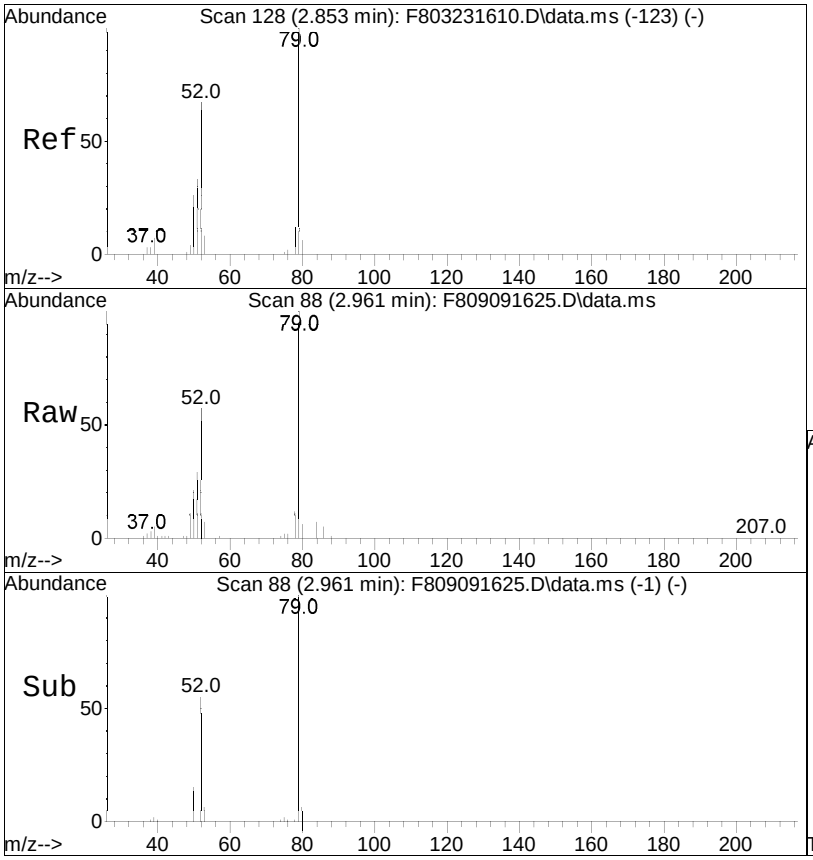


#2
N-Nitrosodimethylamine
Concen: 7.51 ug/mL
RT: 2.932 min Scan# 82
Delta R.T. -0.014 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion: 74 Resp: 212311

Ion	Ratio	Lower	Upper
74	100		
42	52.6	43.8	65.6
40	3.9	4.2	6.4#

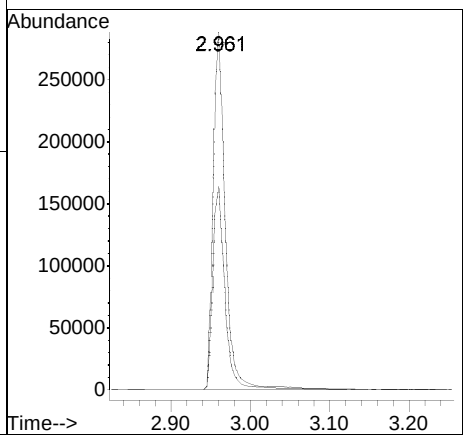


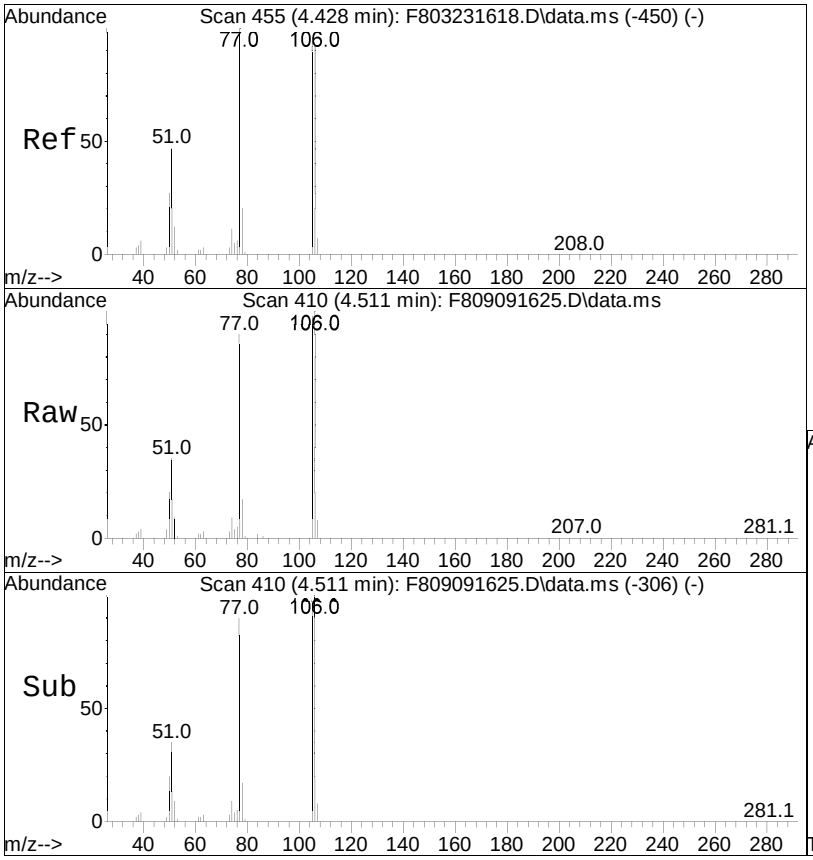


#3
Pyridine
Concen: 5.45 ug/mL
RT: 2.961 min Scan# 88
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion: 79 Resp: 300493

Ion	Ratio	Lower	Upper
79	100		
52	57.7	46.6	69.8

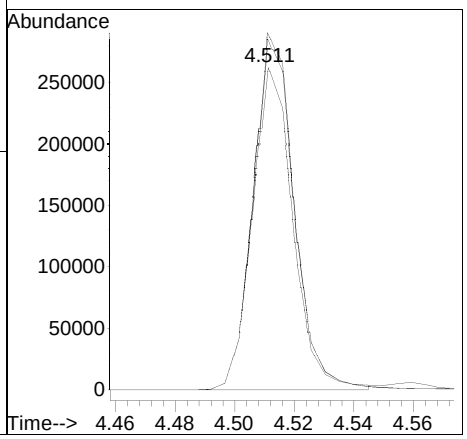


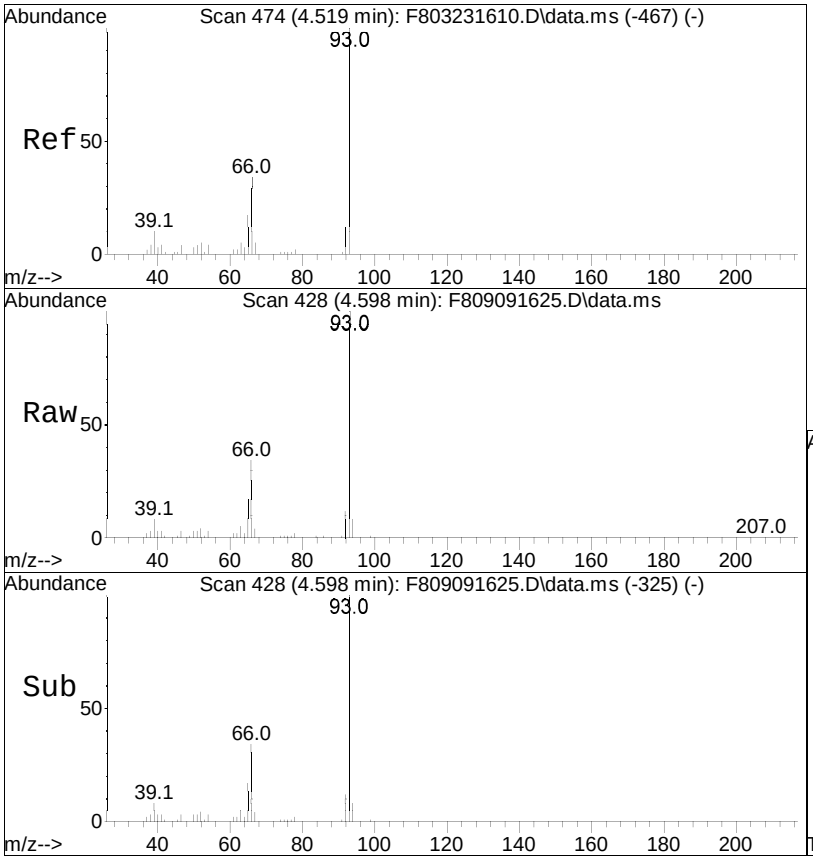


#5
Benzaldehyde
Concen: 5.62 ug/ml
RT: 4.511 min Scan# 410
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion: 77 Resp: 247795

Ion	Ratio	Lower	Upper
77	100		
105	109.7	88.1	132.1
106	111.9	89.8	134.8

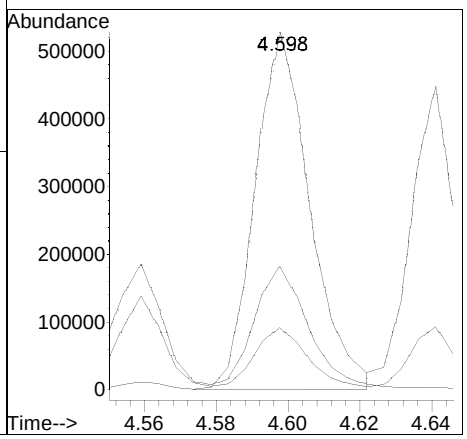


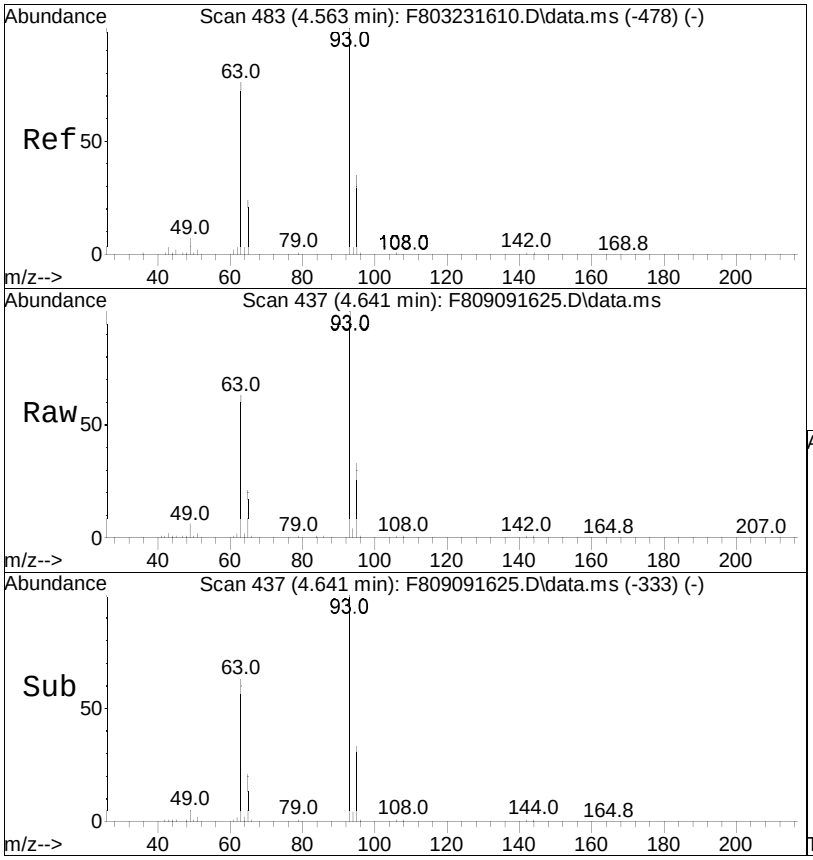


#6
Aniline
Concen: 6.75 ug/ml M4
RT: 4.598 min Scan# 428
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion: 93 Resp: 560456

Ion	Ratio	Lower	Upper
93	100		
66	34.9	26.7	40.1
65	17.3	14.2	21.4

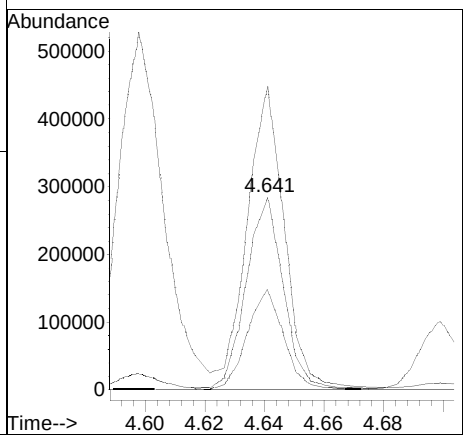


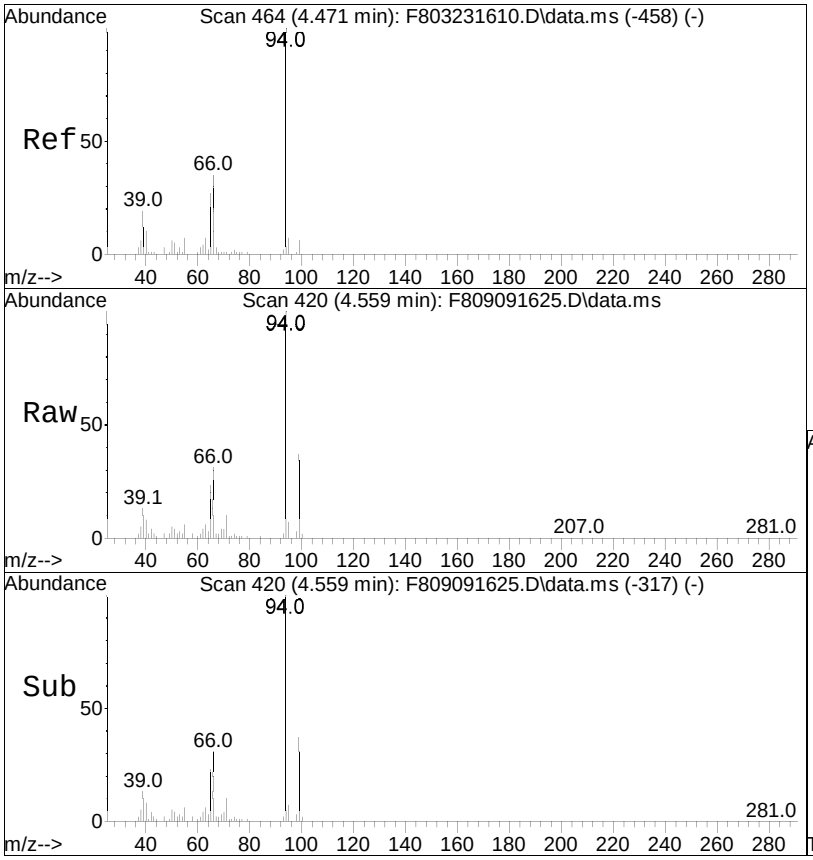


#7
bis(2-Chloroethyl)ether
Concen: 7.01 ug/mL
RT: 4.641 min Scan# 437
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion: 63 Resp: 247110

Ion	Ratio	Lower	Upper
63	100		
93	161.3	123.0	184.4
95	50.9	41.1	61.7

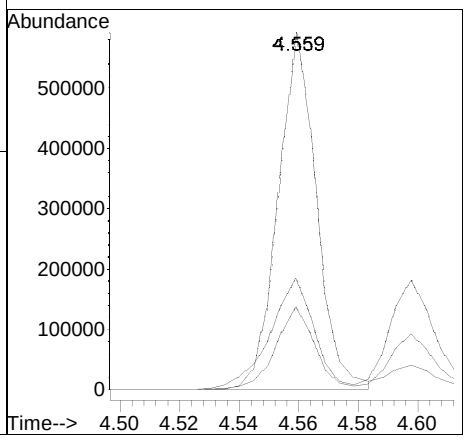


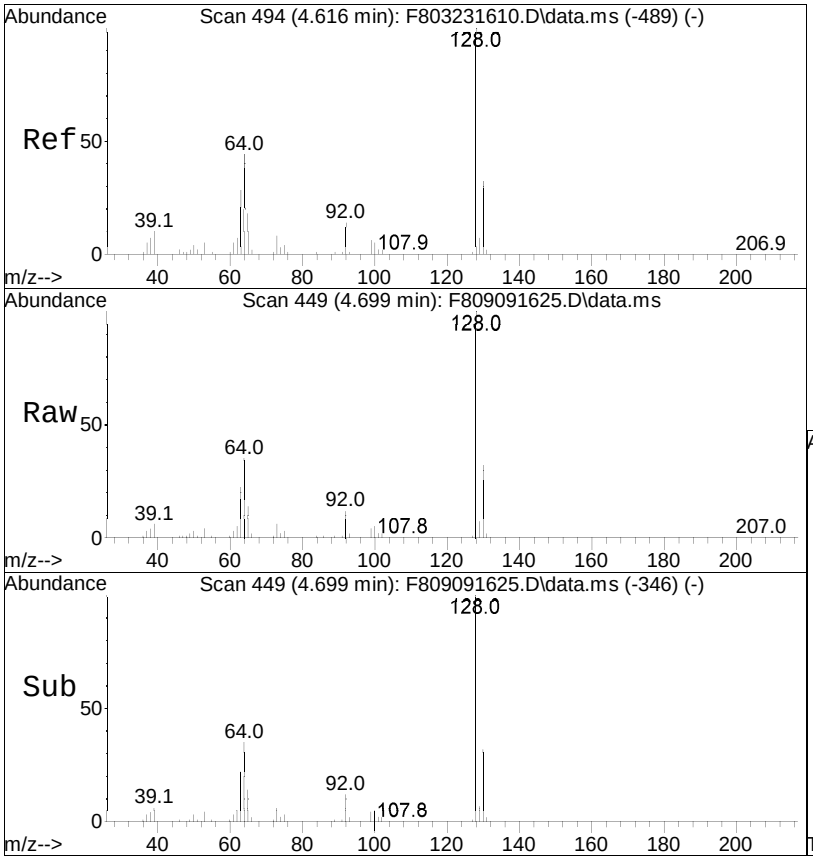


#9
Phenol
Concen: 7.49 ug/mL
RT: 4.559 min Scan# 420
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion: 94 Resp: 525478

Ion	Ratio	Lower	Upper
94	100		
66	37.4	21.7	32.5#
65	24.3	17.6	26.4

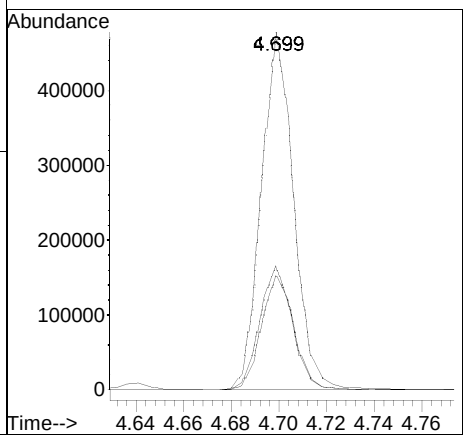


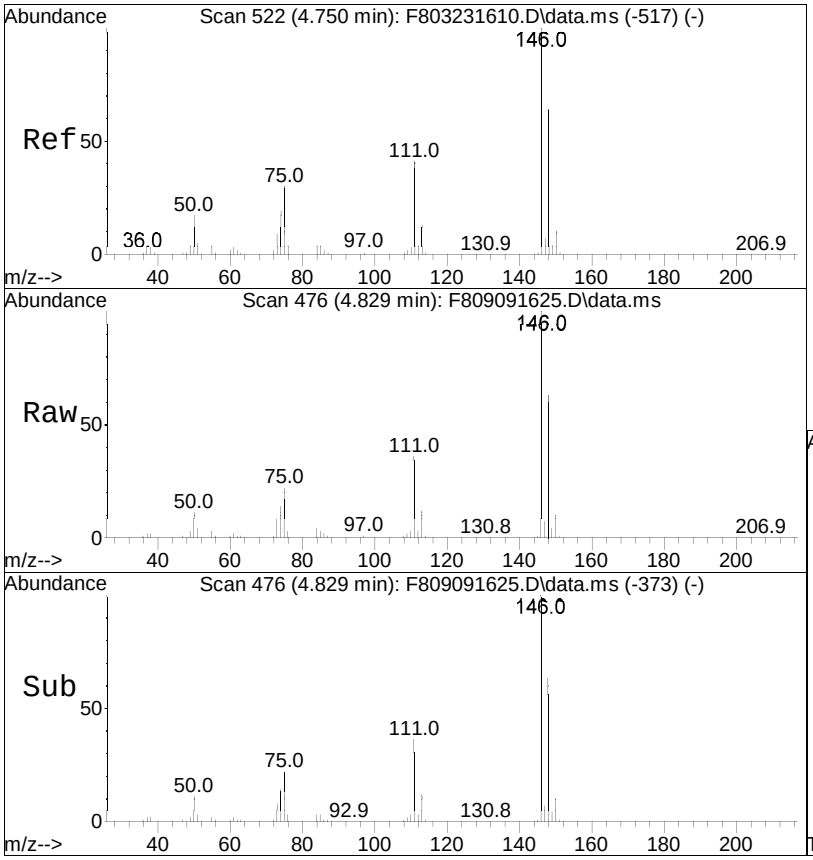


#10
2-Chlorophenol
Concen: 7.02 ug/mL
RT: 4.699 min Scan# 449
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:128 Resp: 446458

Ion	Ratio	Lower	Upper
128	100		
64	34.9	27.6	41.4
130	32.5	26.2	39.4

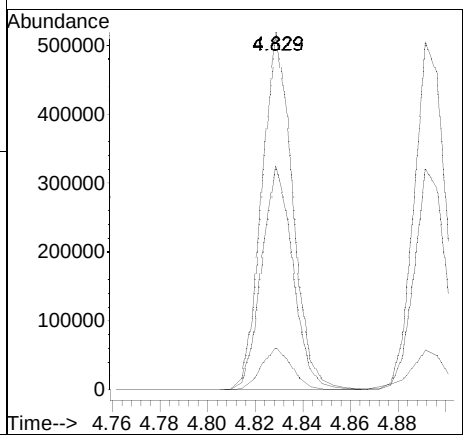


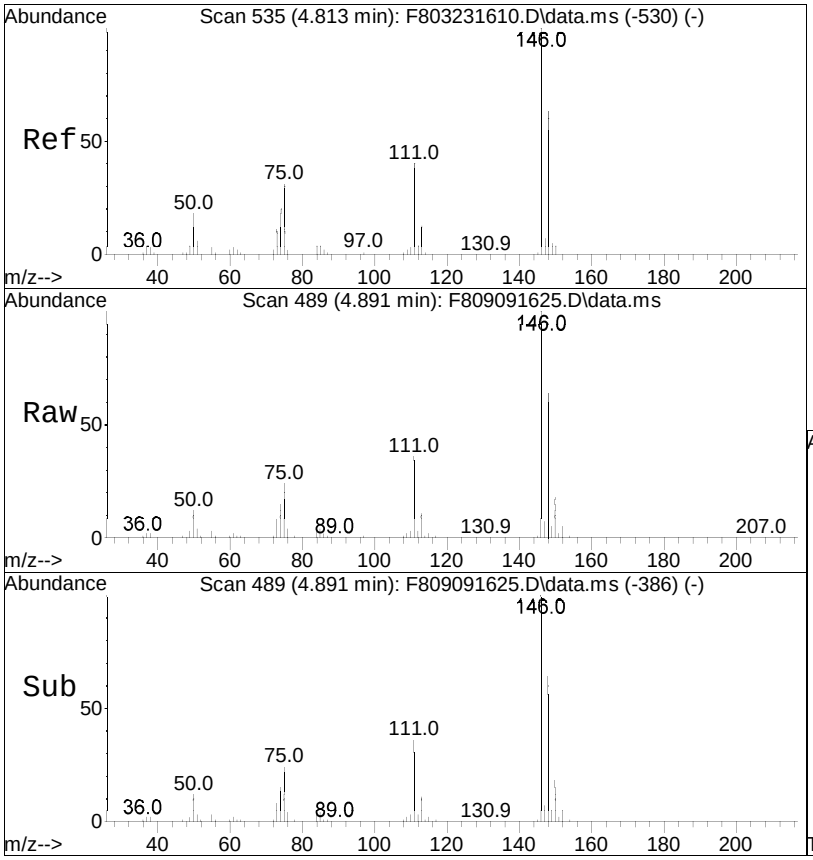


#11
1,3-Dichlorobenzene
Concen: 6.65 ug/mL
RT: 4.829 min Scan# 476
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:146 Resp: 466437

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.0	76.6
113	11.6	9.7	14.5

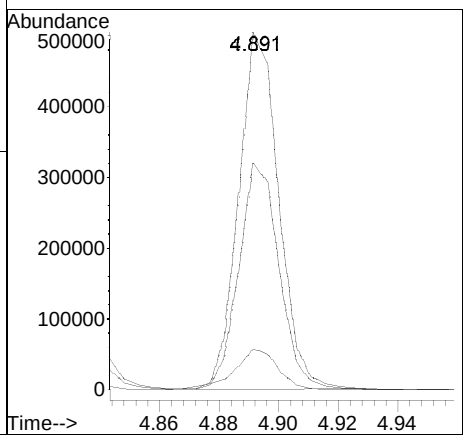


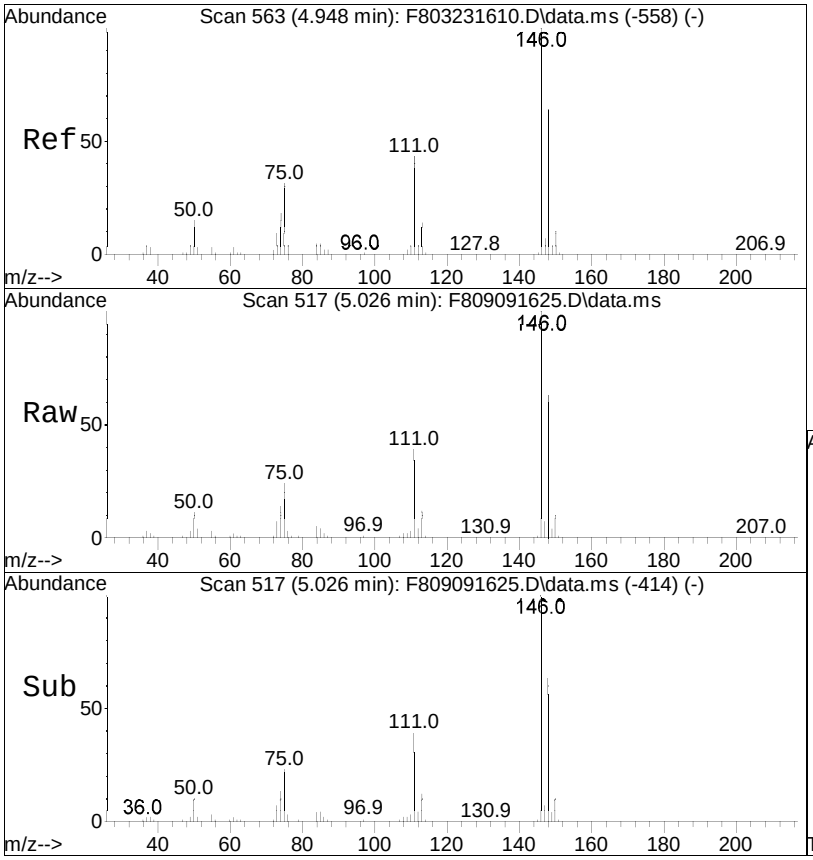


#12
1,4-Dichlorobenzene
Concen: 6.69 ug/mL
RT: 4.891 min Scan# 489
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:146 Resp: 466907

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.2	76.8
113	12.5	9.1	13.7

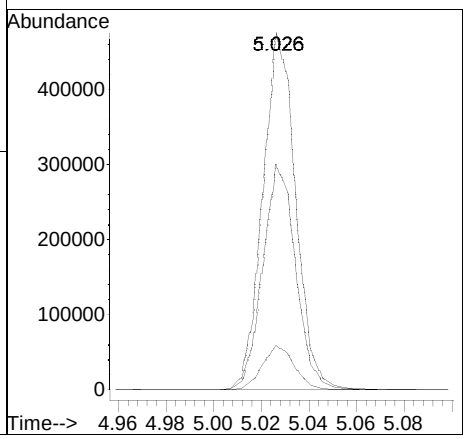


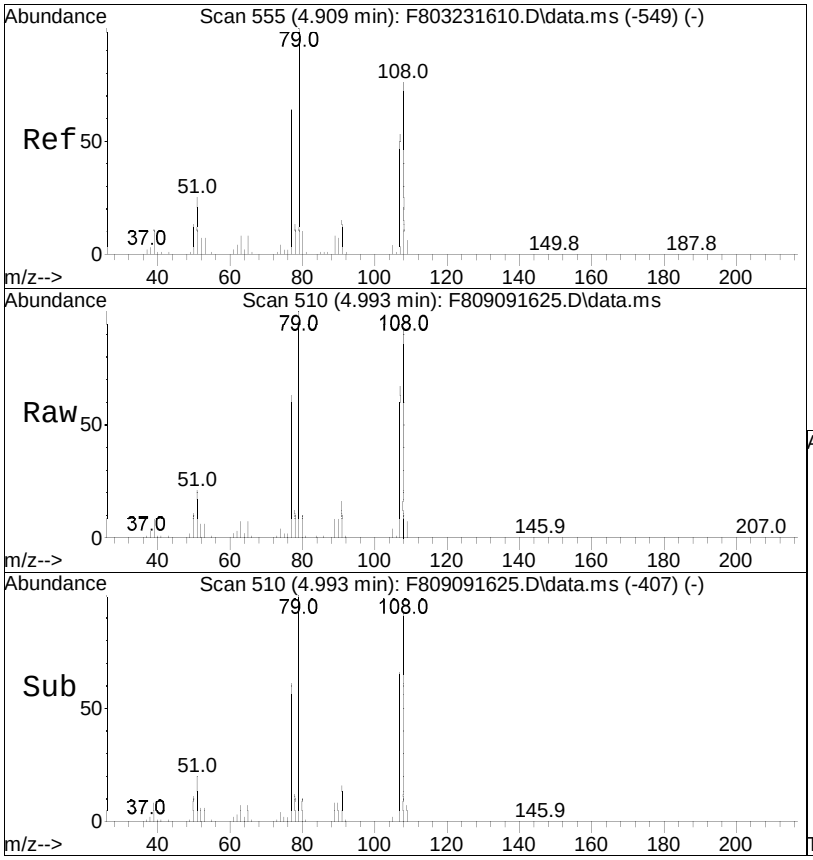


#13
1,2-Dichlorobenzene
Concen: 6.78 ug/mL
RT: 5.026 min Scan# 517
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:146 Resp: 449862

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.0	76.6
113	12.3	10.0	15.0

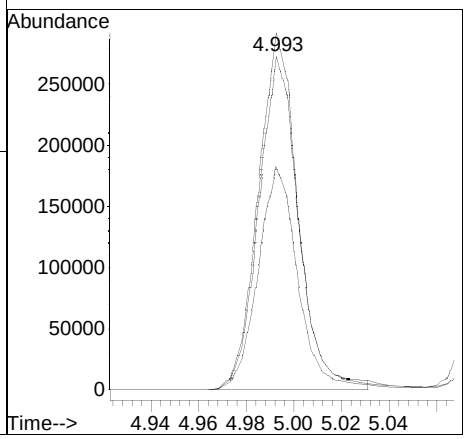


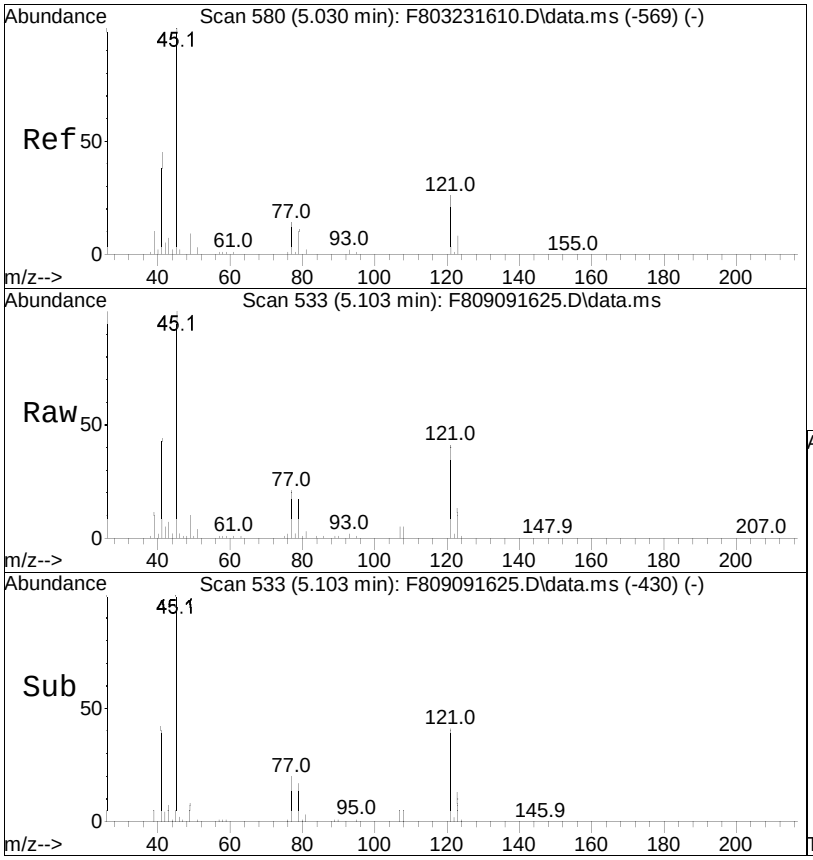


#14
Benzyl alcohol
Concen: 8.38 ug/mL
RT: 4.993 min Scan# 510
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:108 Resp: 316798

Ion	Ratio	Lower	Upper
108	100		
79	106.3	84.5	126.7
77	66.5	52.9	79.3

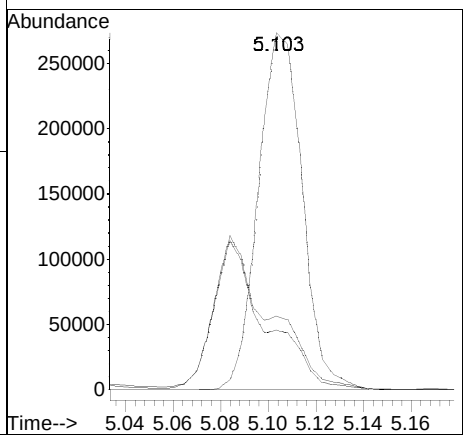


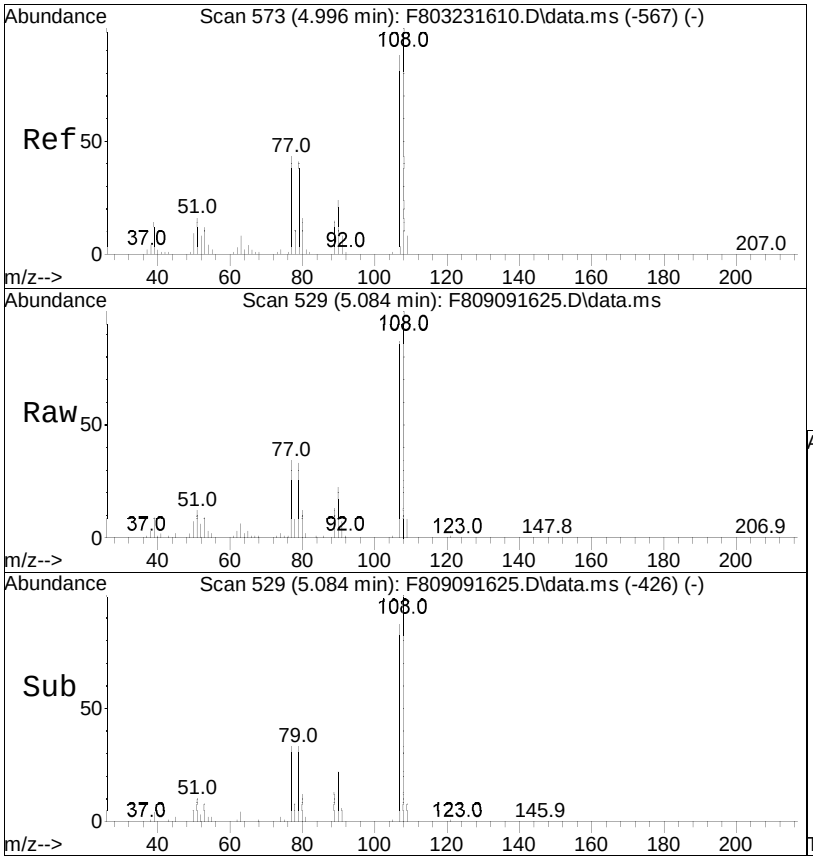


#15
bis(2-chloroisopropyl)ether
Concen: 7.12 ug/mL
RT: 5.103 min Scan# 533
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion: 45 Resp: 348192

Ion	Ratio	Lower	Upper
45	100		
77	53.5	13.2	19.8#
79	48.3	10.9	16.3#

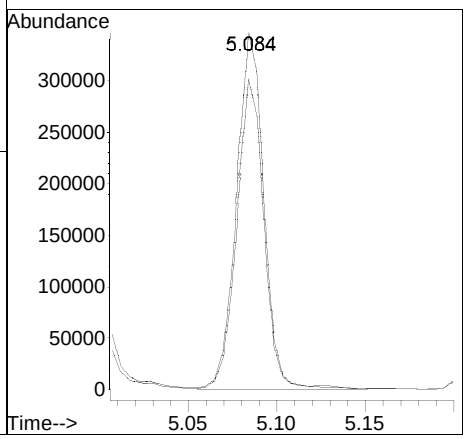


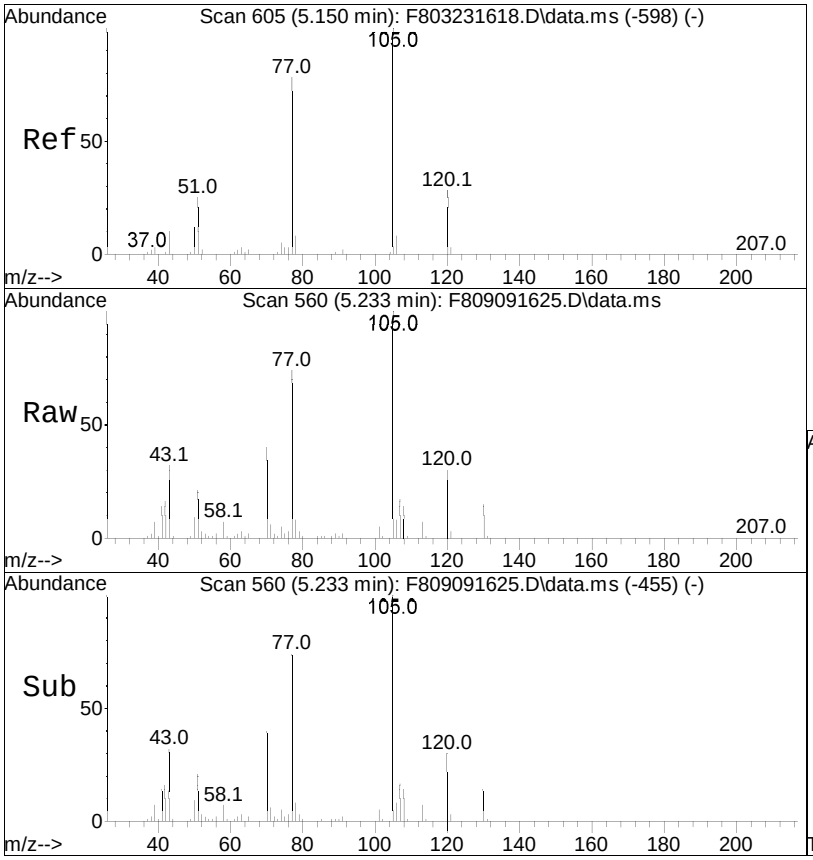


#16
2-Methylphenol
Concen: 7.47 ug/mL M4
RT: 5.084 min Scan# 529
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:108 Resp: 368923

Ion	Ratio	Lower	Upper
108	100		
107	85.3	68.1	102.1

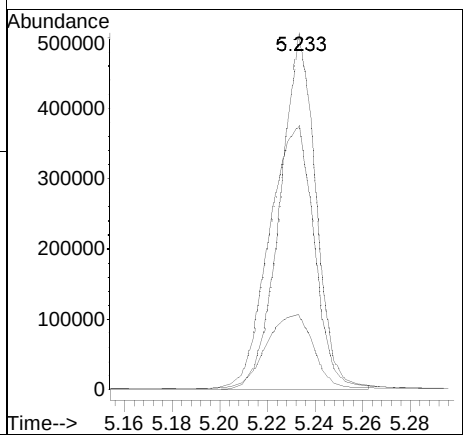


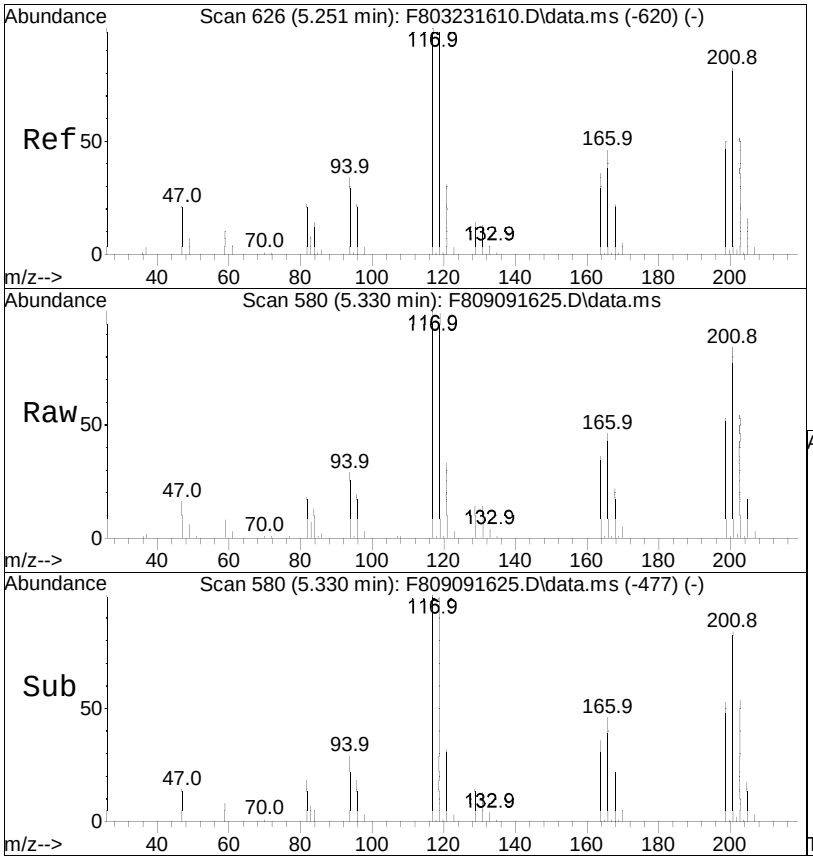


#17
Acetophenone
Concen: 6.98 ug/ml
RT: 5.233 min Scan# 560
Delta R.T. 0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:105 Resp: 526577

Ion	Ratio	Lower	Upper
105	100		
77	93.3	57.7	86.5#
51	27.6	17.1	25.7#

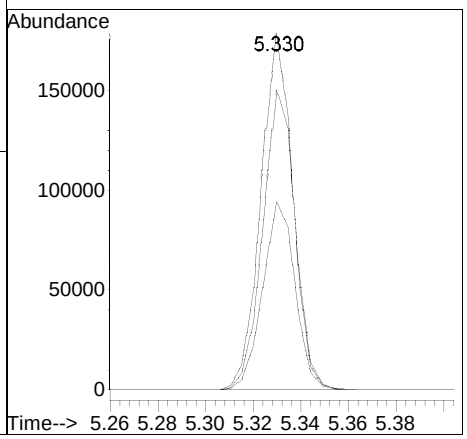


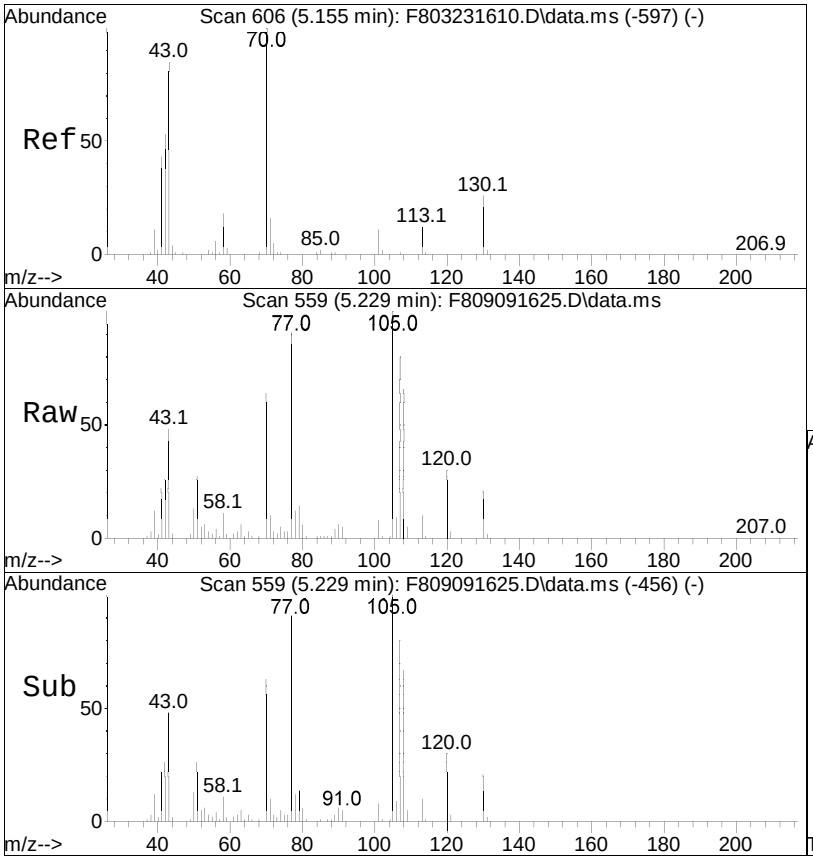


#18
Hexachloroethane
Concen: 6.49 ug/mL
RT: 5.330 min Scan# 580
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:117 Resp: 165446

Ion	Ratio	Lower	Upper
117	100		
201	85.8	62.8	94.2
199	53.9	39.0	58.4

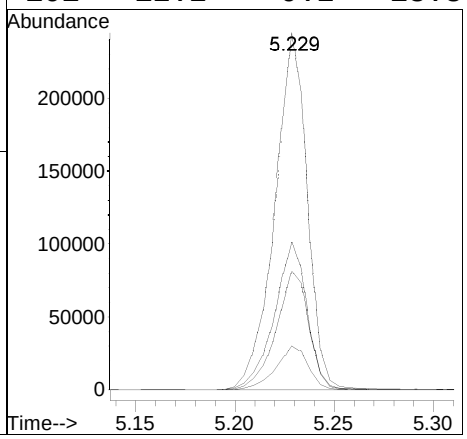


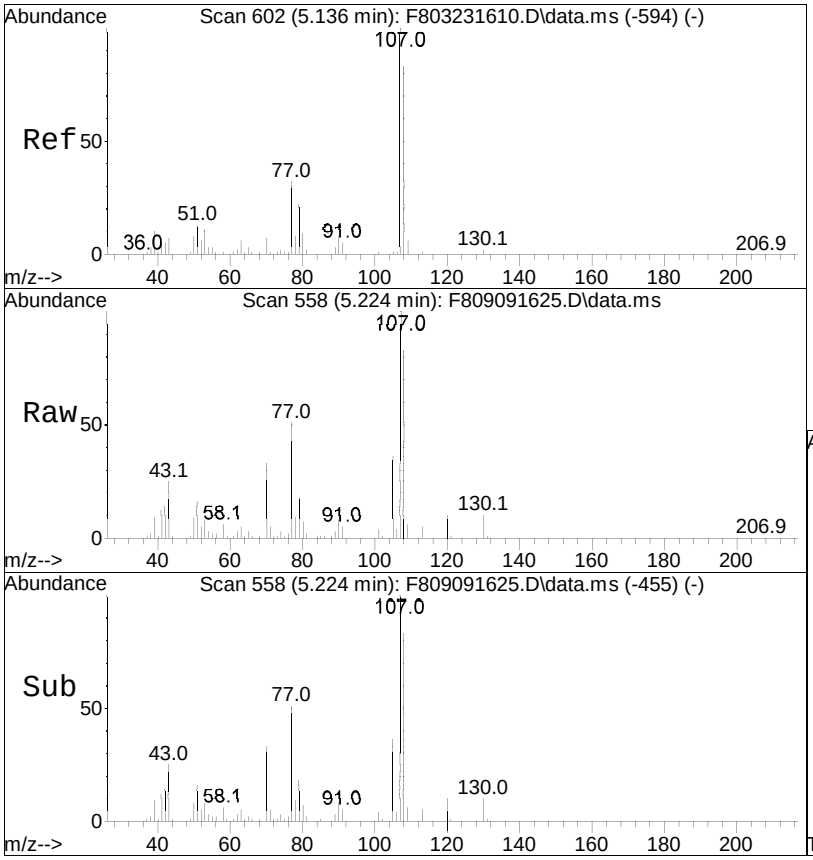


#19
N-Nitroso-di-n-propylamine
Concen: 8.06 ug/mL
RT: 5.229 min Scan# 559
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion: 70 Resp: 277930

Ion	Ratio	Lower	Upper
70	100		
42	42.1	37.1	55.7
130	33.7	24.0	36.0
101	12.2	9.2	13.8

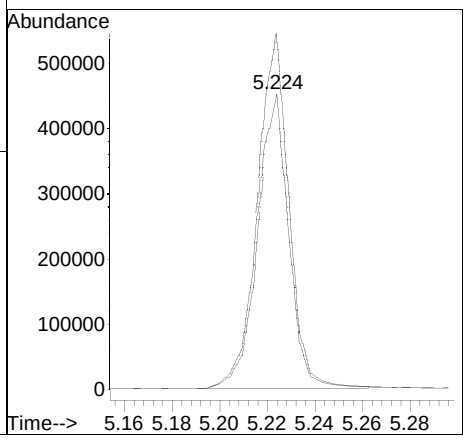


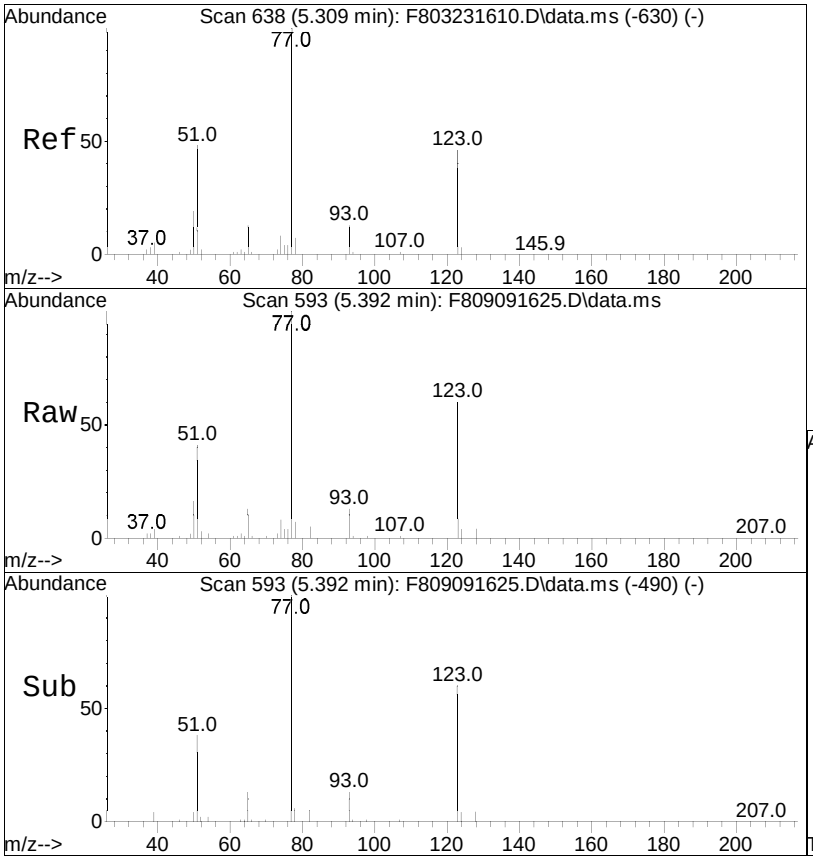


#20
4-Methylphenol
Concen: 7.71 ug/mL
RT: 5.224 min Scan# 558
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:108 Resp: 411553

Ion	Ratio	Lower	Upper
108	100		
107	121.2	94.6	142.0

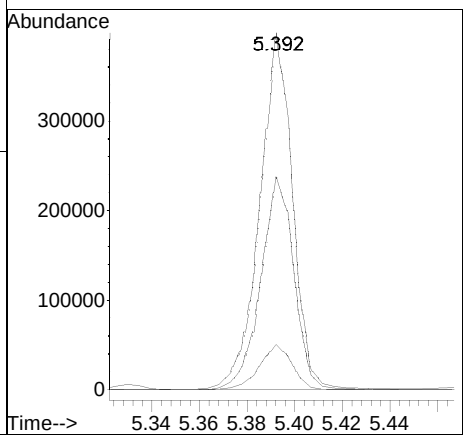


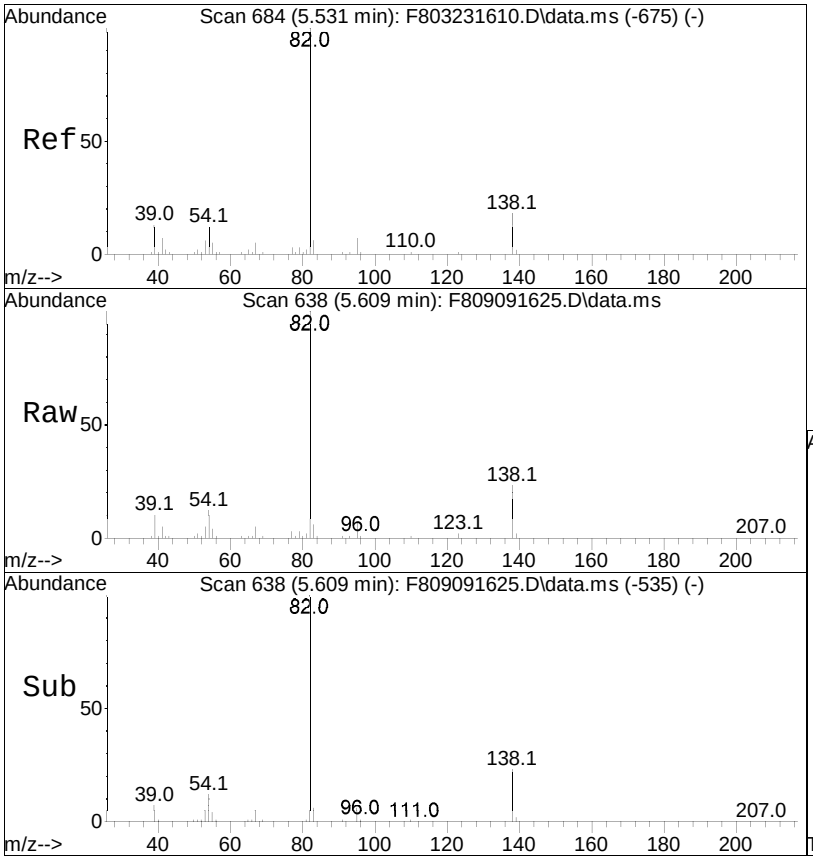


#23
Nitrobenzene
Concen: 7.49 ug/mL
RT: 5.392 min Scan# 593
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion: 77 Resp: 373845

Ion	Ratio	Lower	Upper
77	100		
123	61.0	45.4	68.2
65	13.1	10.2	15.4

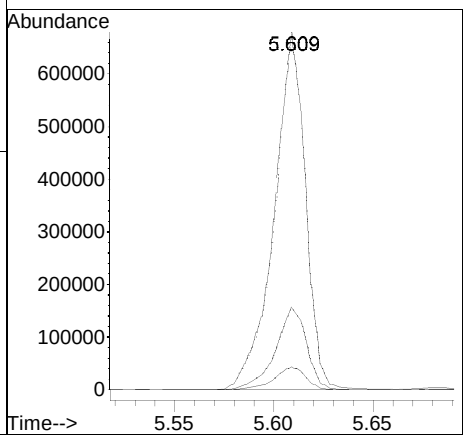


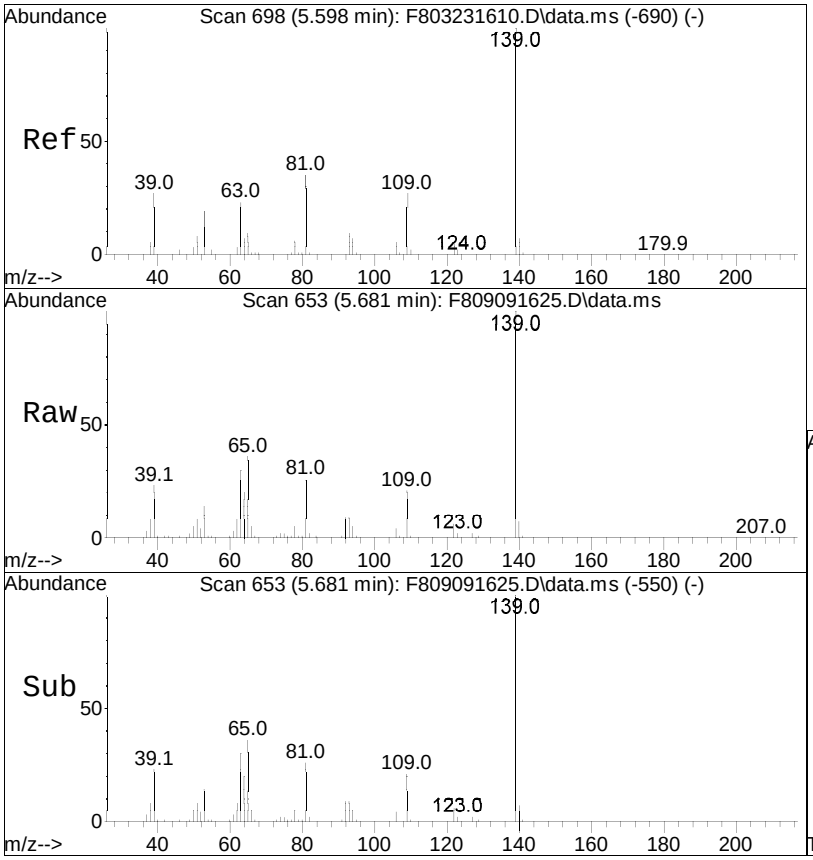


#24
Isophorone
Concen: 9.13 ug/mL
RT: 5.609 min Scan# 638
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion: 82 Resp: 733443

Ion	Ratio	Lower	Upper
82	100		
138	23.2	17.0	25.4
95	6.6	4.9	7.3

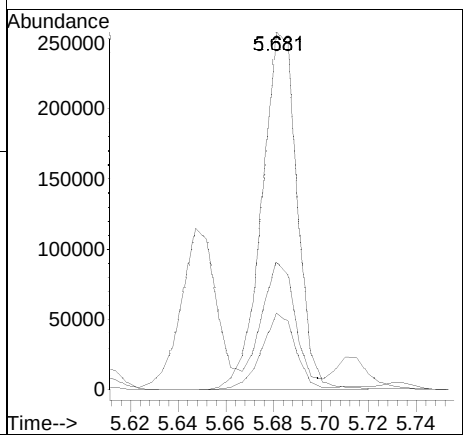


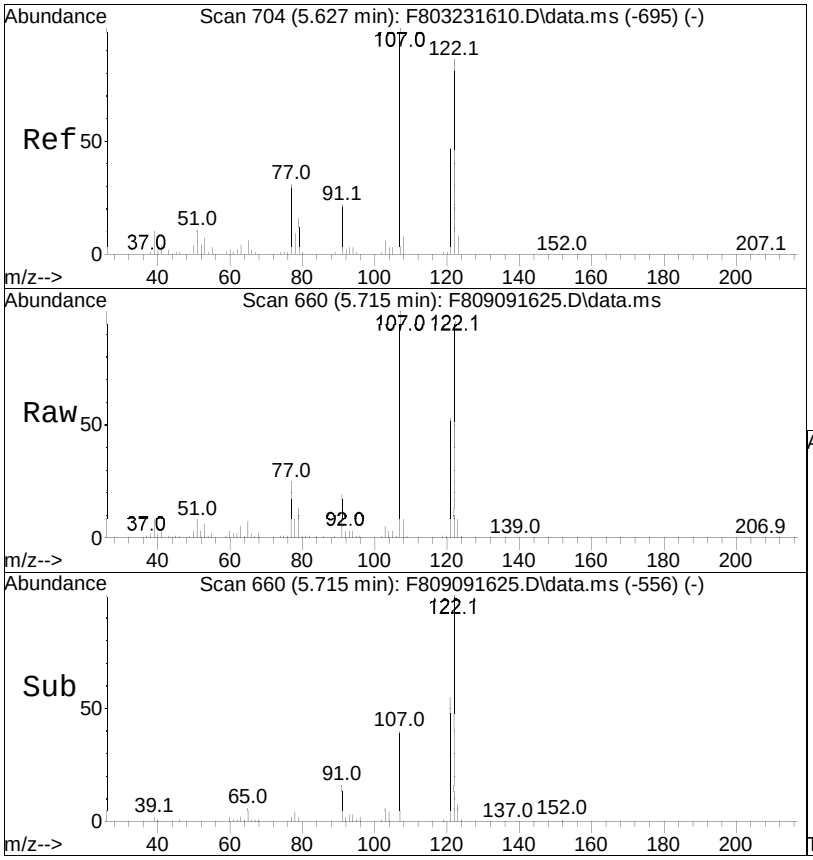


#25
2-Nitrophenol
Concen: 8.01 ug/mL
RT: 5.681 min Scan# 653
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:139 Resp: 261663

Ion	Ratio	Lower	Upper
139	100		
65	45.0	28.4	42.6#
109	20.9	16.3	24.5

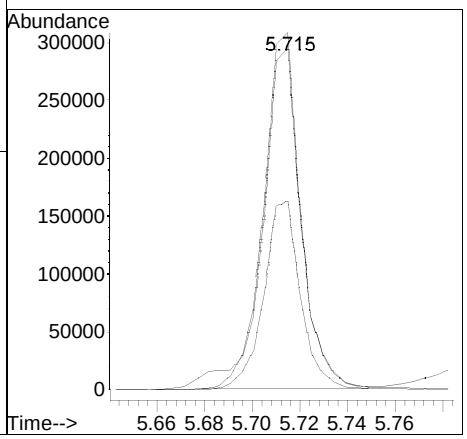


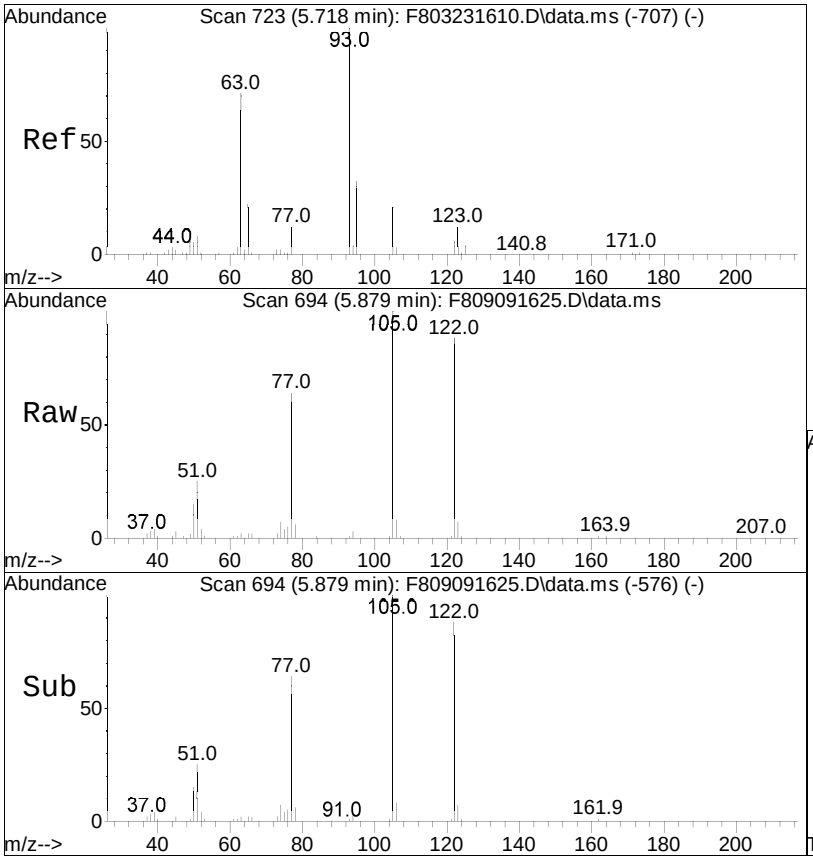


#26
2,4-Dimethylphenol
Concen: 6.45 ug/mL
RT: 5.715 min Scan# 660
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:107 Resp: 334838

Ion	Ratio	Lower	Upper
107	100		
122	94.5	78.4	117.6
121	52.7	43.0	64.6

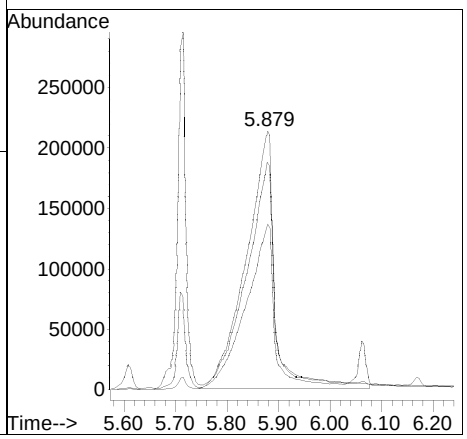


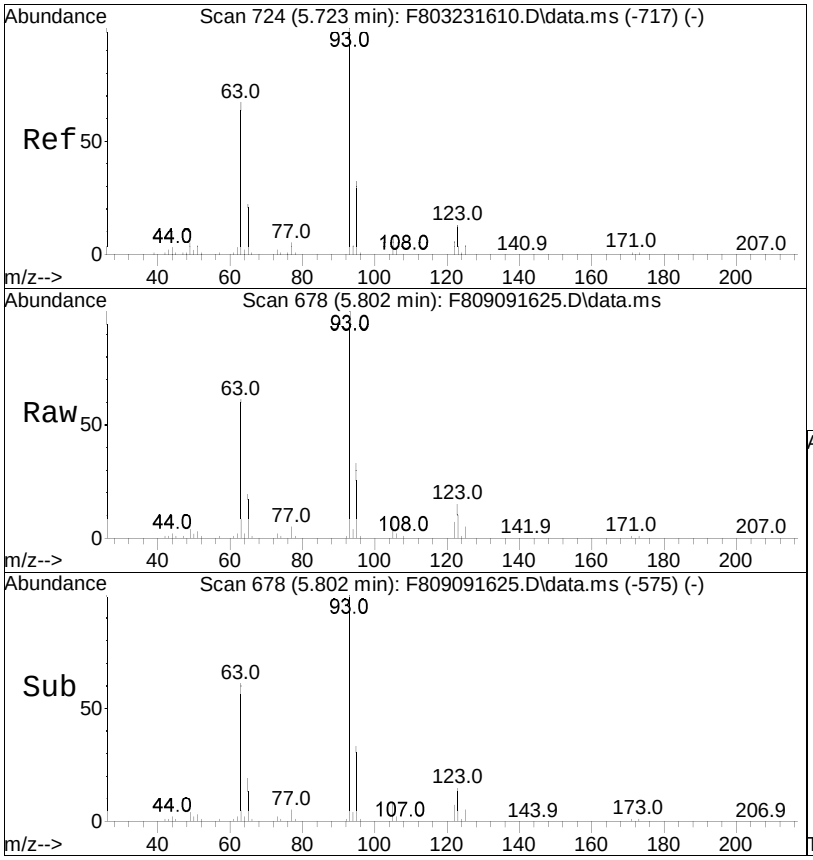


#27
Benzoic acid
Concen: 32.66 ug/mL M4
RT: 5.879 min Scan# 694
Delta R.T. 0.067 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:105 Resp: 842343

Ion	Ratio	Lower	Upper
105	100		
122	86.7	70.9	106.3
77	62.0	53.4	80.0

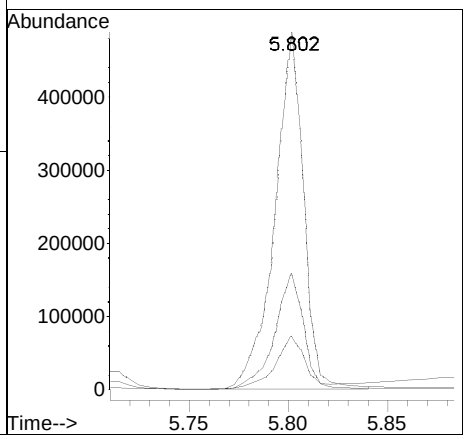


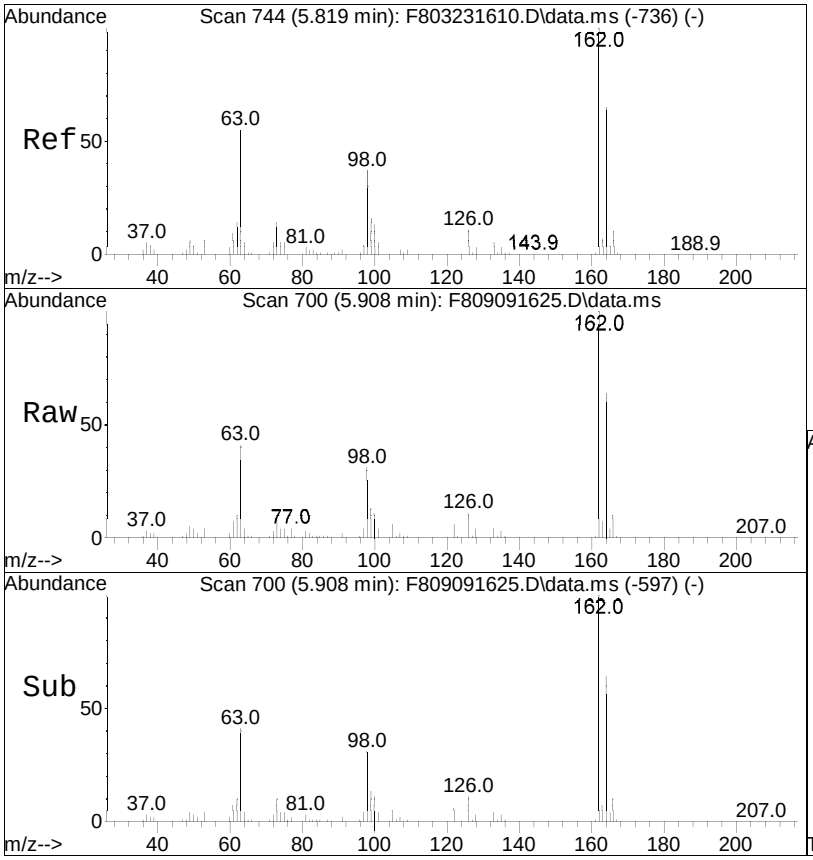


#28
bis(2-Chloroethoxy)methane
Concen: 8.39 ug/mL
RT: 5.802 min Scan# 678
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion: 93 Resp: 488478

Ion	Ratio	Lower	Upper
93	100		
95	33.1	26.7	40.1
123	16.2	11.9	17.9

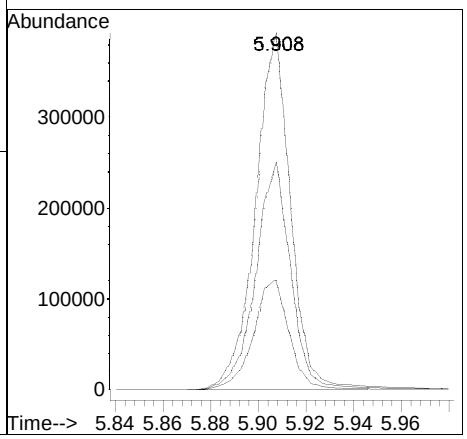


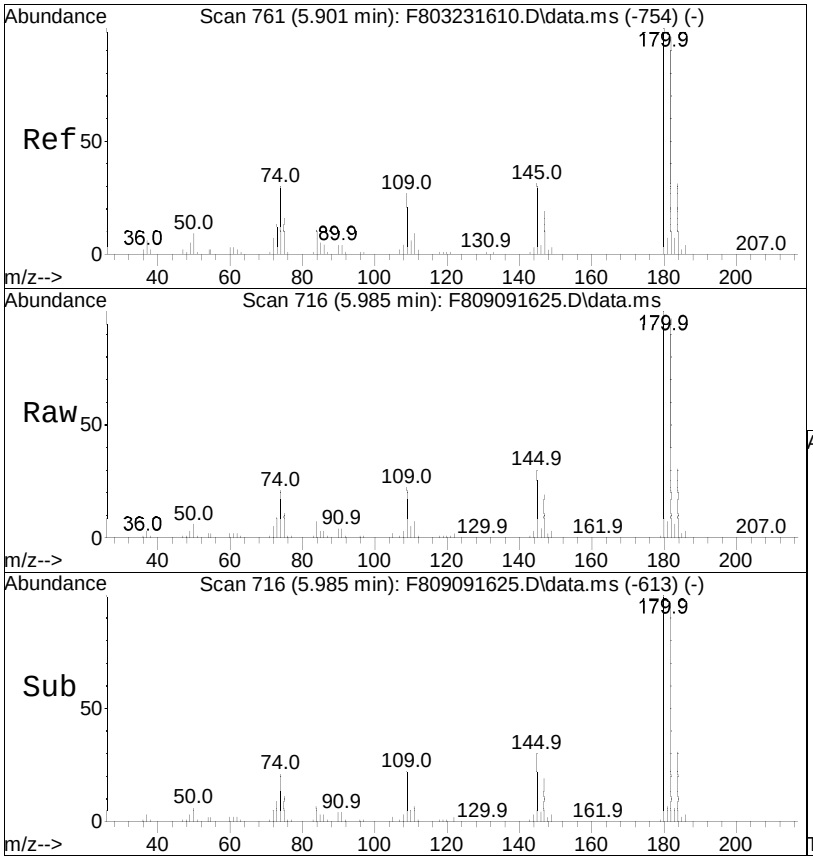


#29
2,4-Dichlorophenol
Concen: 8.32 ug/mL
RT: 5.908 min Scan# 700
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:162 Resp: 395369

Ion	Ratio	Lower	Upper
162	100		
164	64.3	50.8	76.2
98	31.8	26.3	39.5

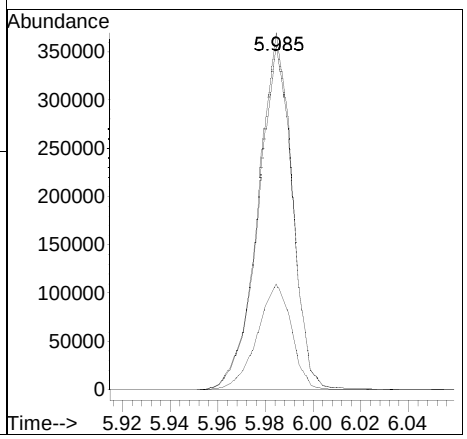


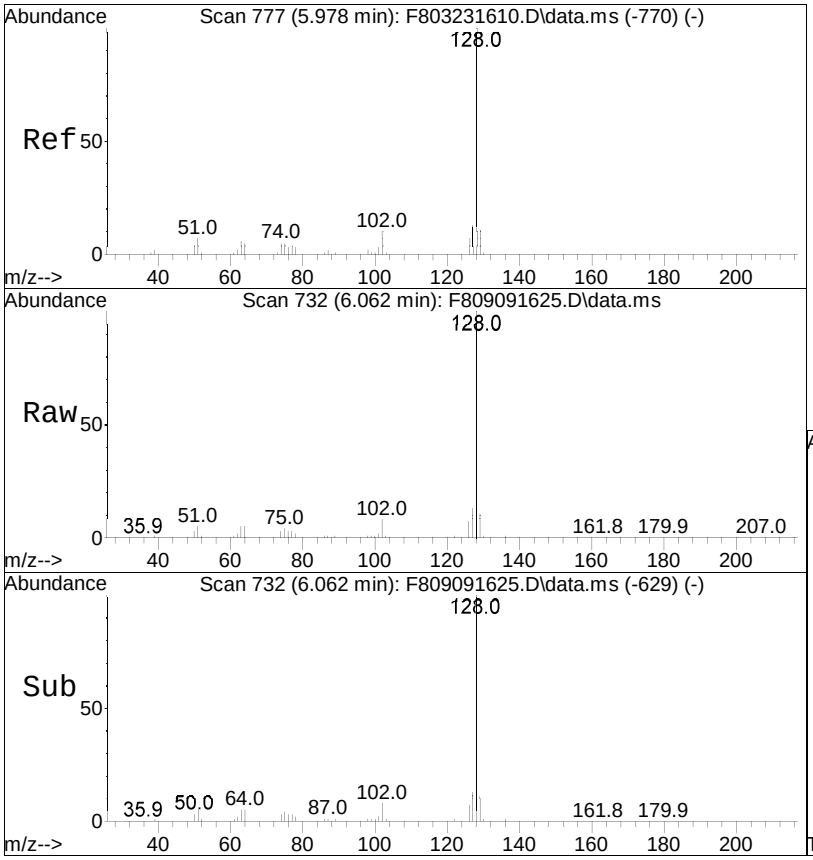


#30
1,2,4-Trichlorobenzene
Concen: 7.15 ug/mL
RT: 5.985 min Scan# 716
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:180 Resp: 368925

Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.2	114.4
145	30.0	23.6	35.4

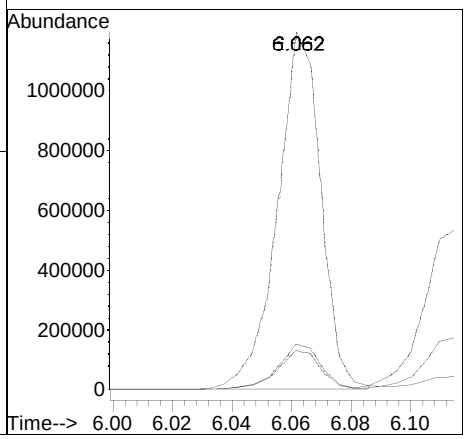


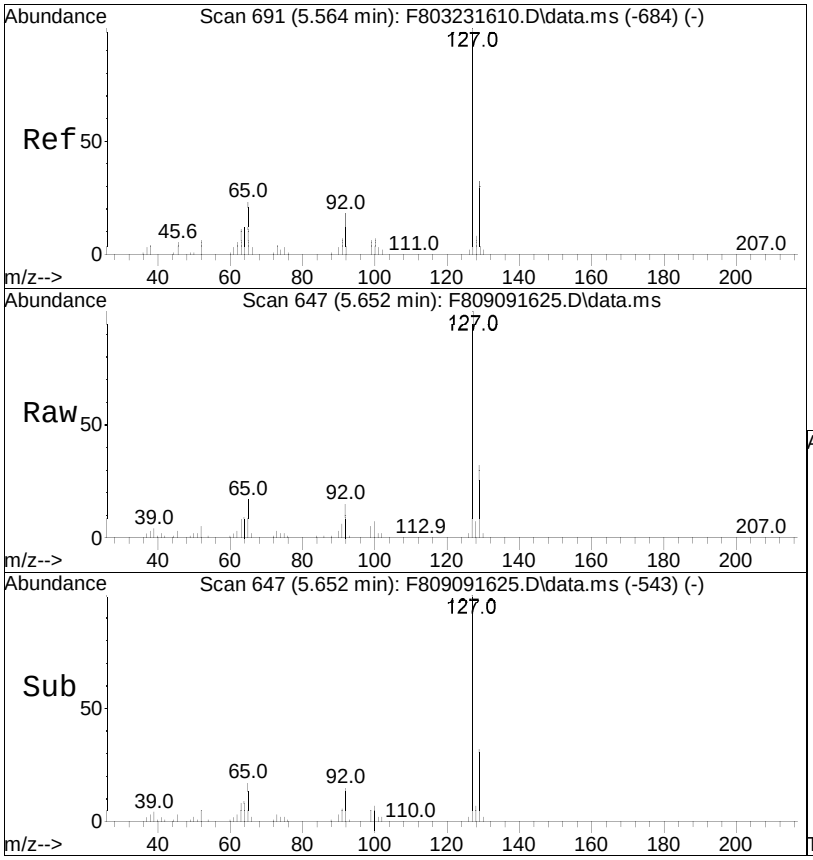


#31
Naphthalene
Concen: 7.27 ug/mL
RT: 6.062 min Scan# 732
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:128 Resp: 1203364

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.0	13.4
127	13.0	10.0	15.0

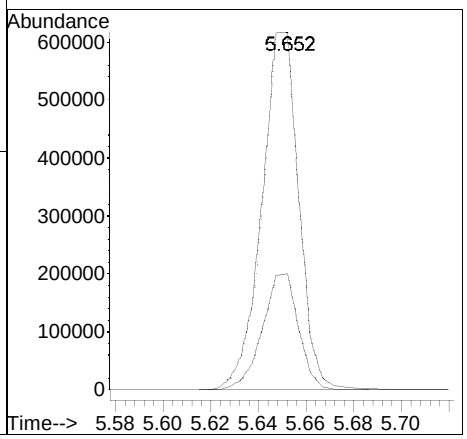


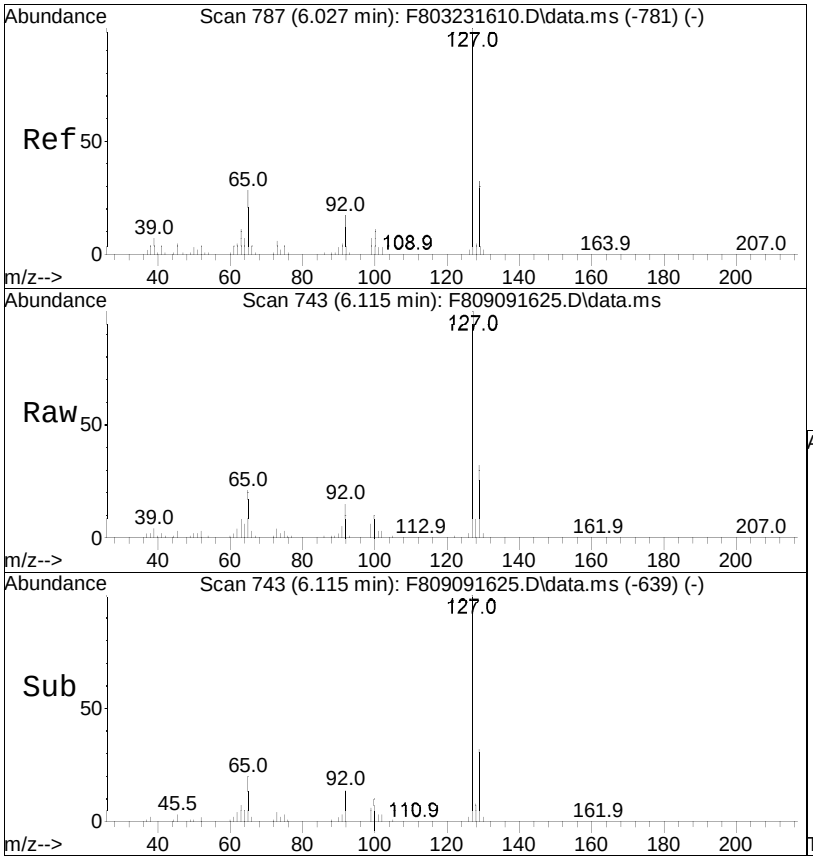


#32
2-Chloroaniline
Concen: 7.90 ug/ml
RT: 5.652 min Scan# 647
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:127 Resp: 658780

Ion	Ratio	Lower	Upper
127	100		
129	32.1	26.2	39.4

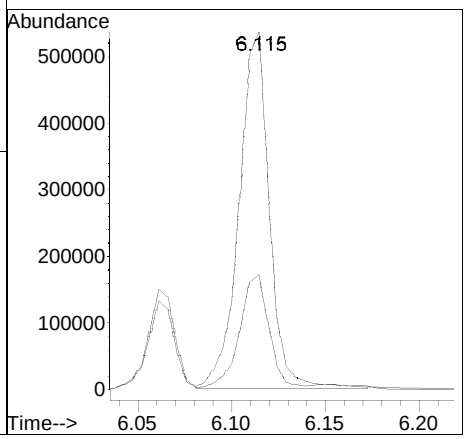


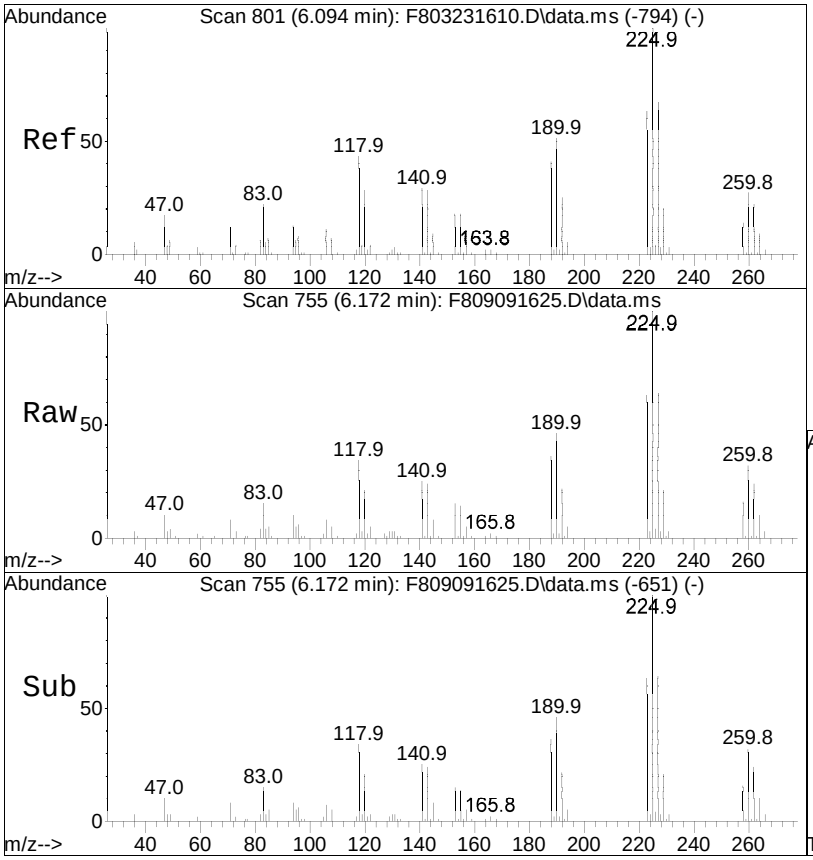


#33
4-Chloroaniline
Concen: 8.38 ug/mL M4
RT: 6.115 min Scan# 743
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:127 Resp: 597363

Ion	Ratio	Lower	Upper
127	100		
129	31.1	25.8	38.6

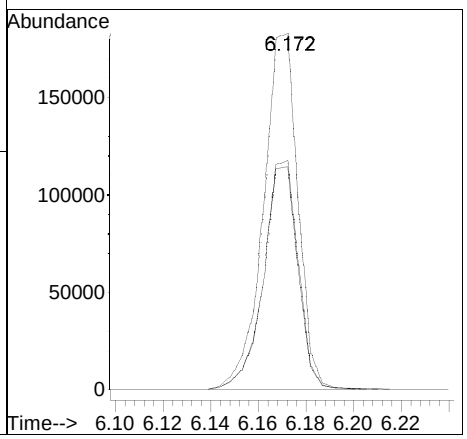


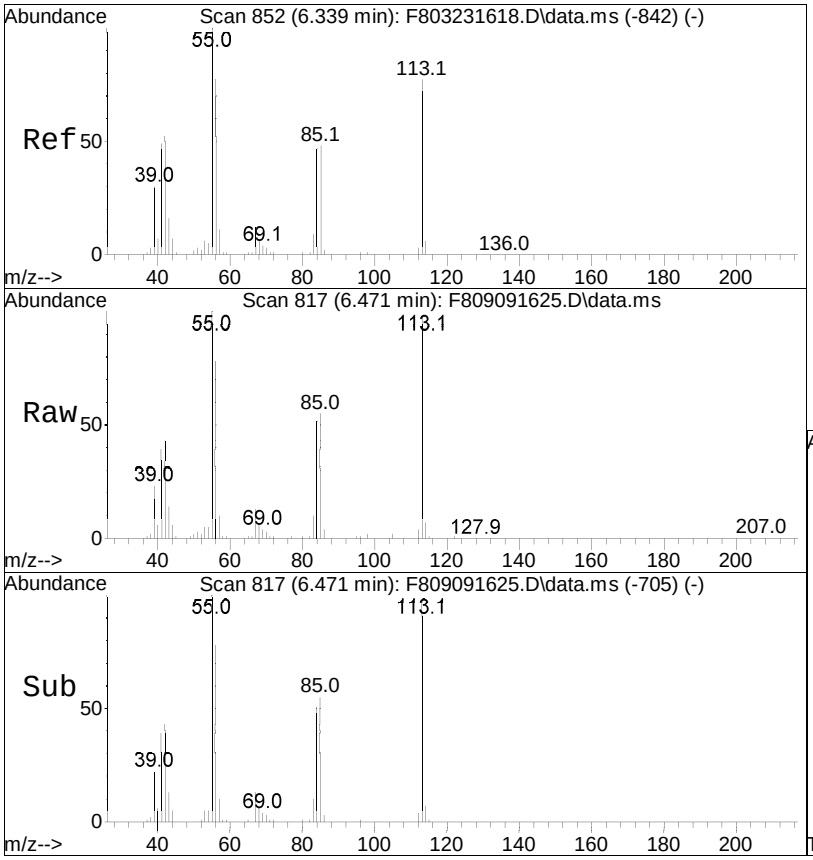


#34
Hexachlorobutadiene
Concen: 7.04 ug/mL
RT: 6.172 min Scan# 755
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:225 Resp: 184692

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.8	76.2
227	64.1	51.1	76.7

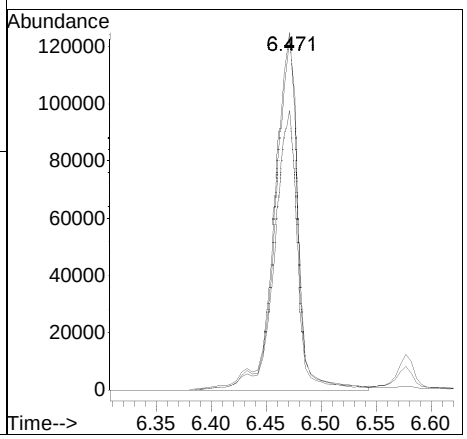


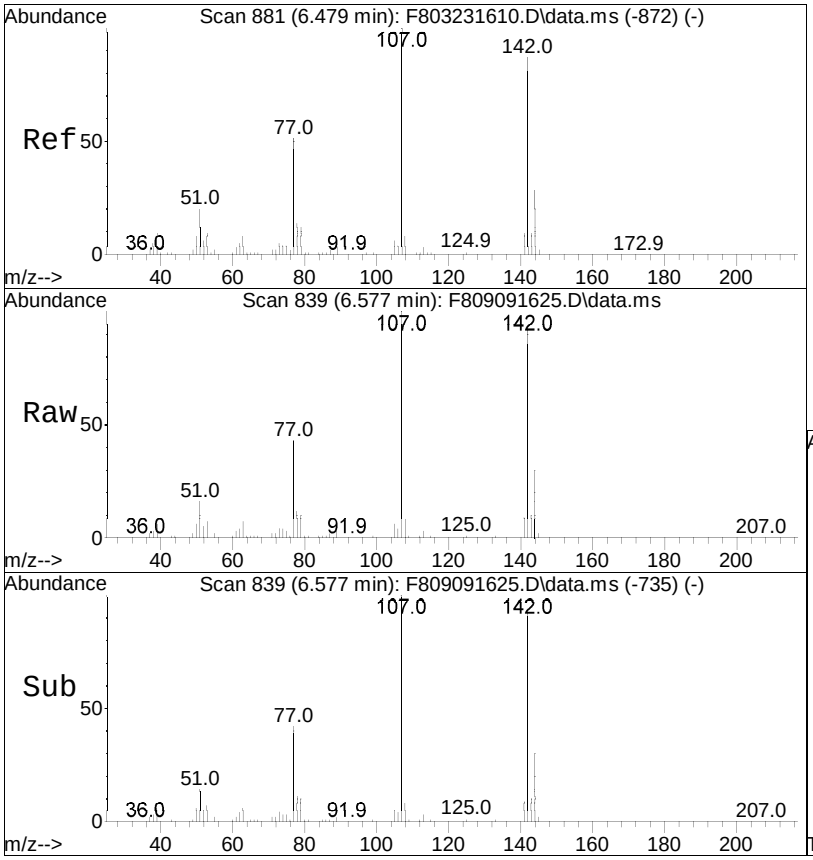


#35
Caprolactam
Concen: 11.47 ug/ml M4
RT: 6.471 min Scan# 817
Delta R.T. 0.039 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:113 Resp: 176382

Ion	Ratio	Lower	Upper
113	100		
55	102.1	82.6	123.8
56	79.3	63.0	94.6

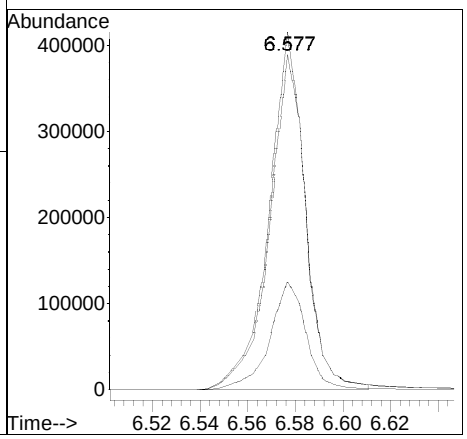


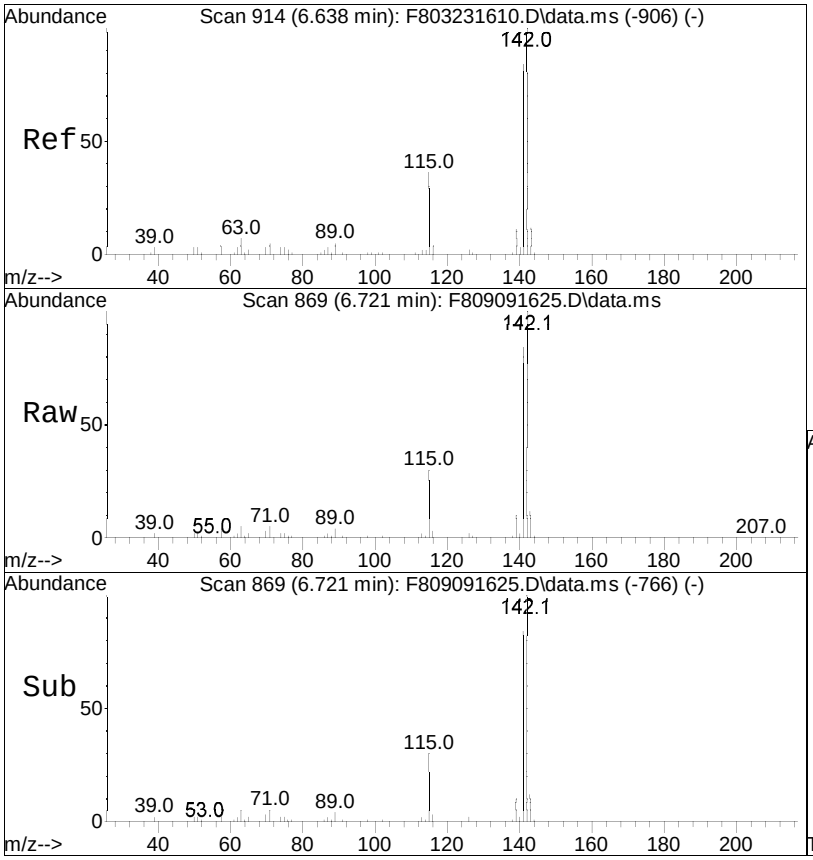


#36
4-Chloro-3-methylphenol
Concen: 9.47 ug/mL
RT: 6.577 min Scan# 839
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:107 Resp: 433288

Ion	Ratio	Lower	Upper
107	100		
144	30.7	24.3	36.5
142	94.8	74.4	111.6

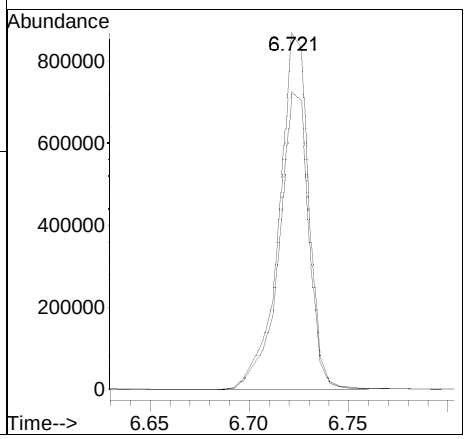


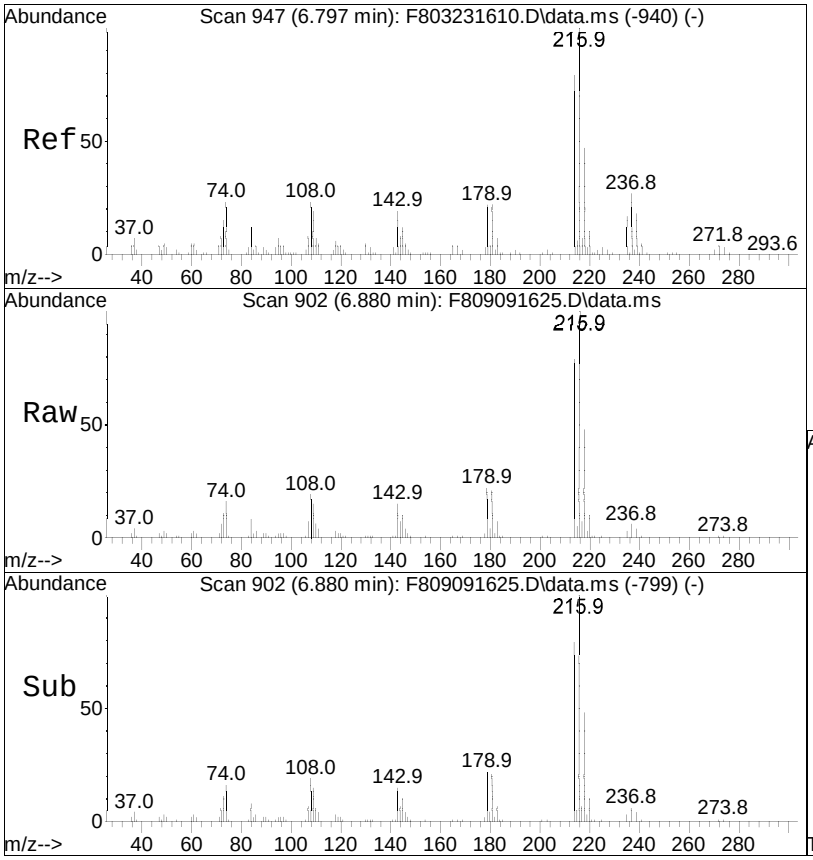


#37
2-Methylnaphthalene
Concen: 8.04 ug/mL
RT: 6.721 min Scan# 869
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:142 Resp: 902140

Ion	Ratio	Lower	Upper
142	100		
141	84.1	66.6	100.0

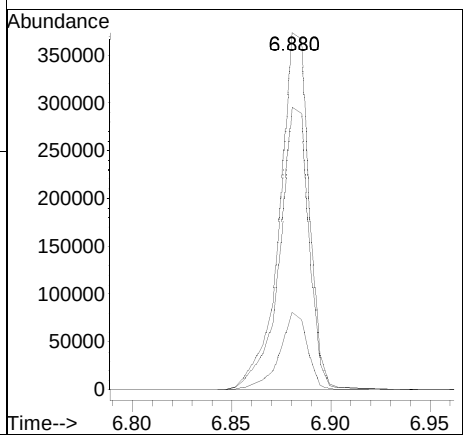


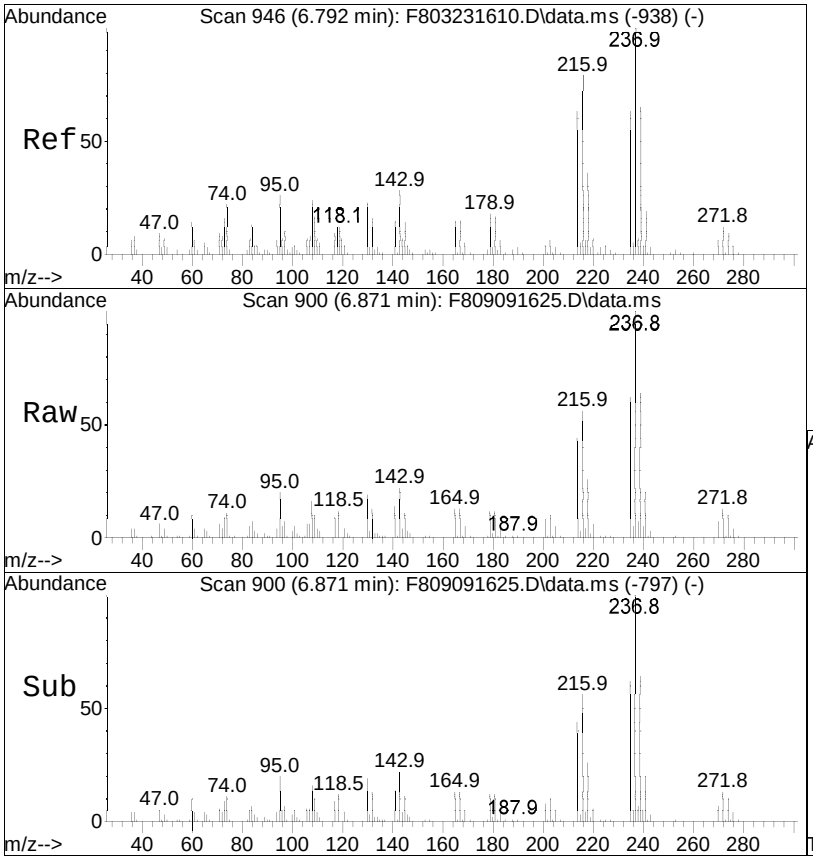


#39
1,2,4,5-Tetrachlorobenzene
Concen: 8.19 ug/mL
RT: 6.880 min Scan# 902
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:216 Resp: 389260

Ion	Ratio	Lower	Upper
216	100		
214	78.8	63.0	94.6
179	20.8	16.2	24.4

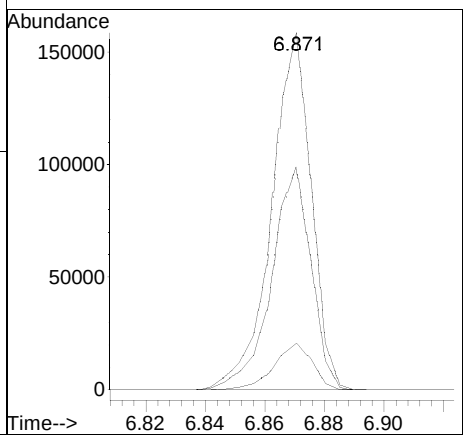


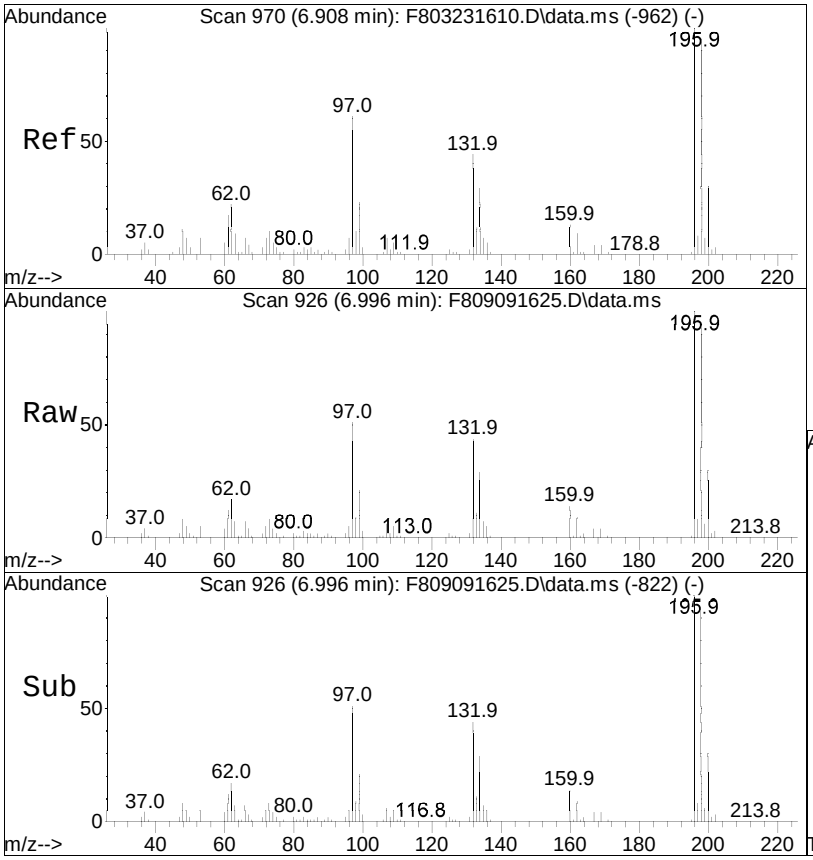


#40
Hexachlorocyclopentadiene
Concen: 7.02 ug/mL
RT: 6.871 min Scan# 900
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:237 Resp: 146324

Ion	Ratio	Lower	Upper
237	100		
235	62.6	53.3	79.9
272	13.0	10.9	16.3

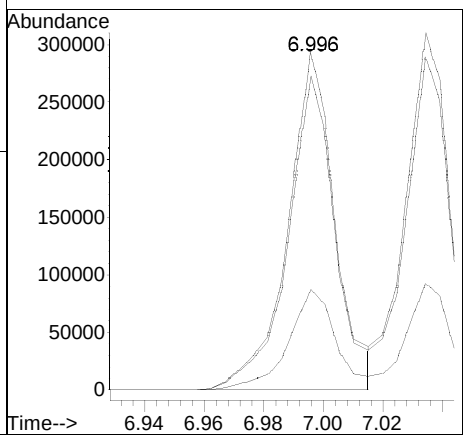


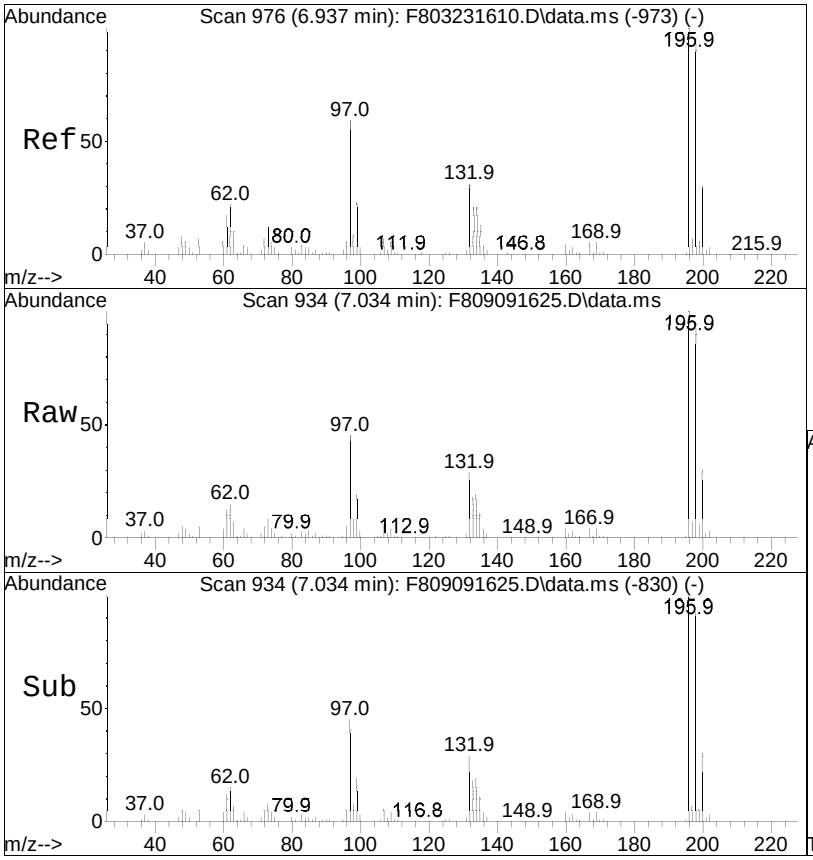


#41
2,4,6-Trichlorophenol
Concen: 9.43 ug/mL
RT: 6.996 min Scan# 926
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:196 Resp: 322678

Ion	Ratio	Lower	Upper
196	100		
198	92.9	73.6	110.4
200	30.0	23.5	35.3

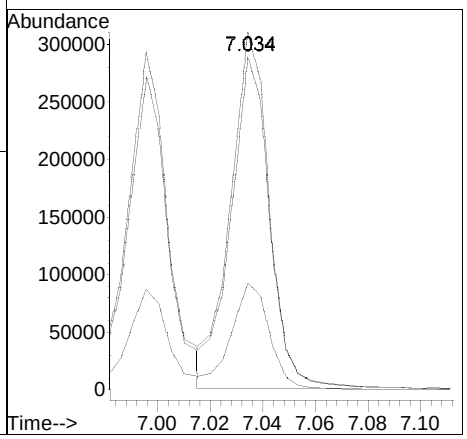


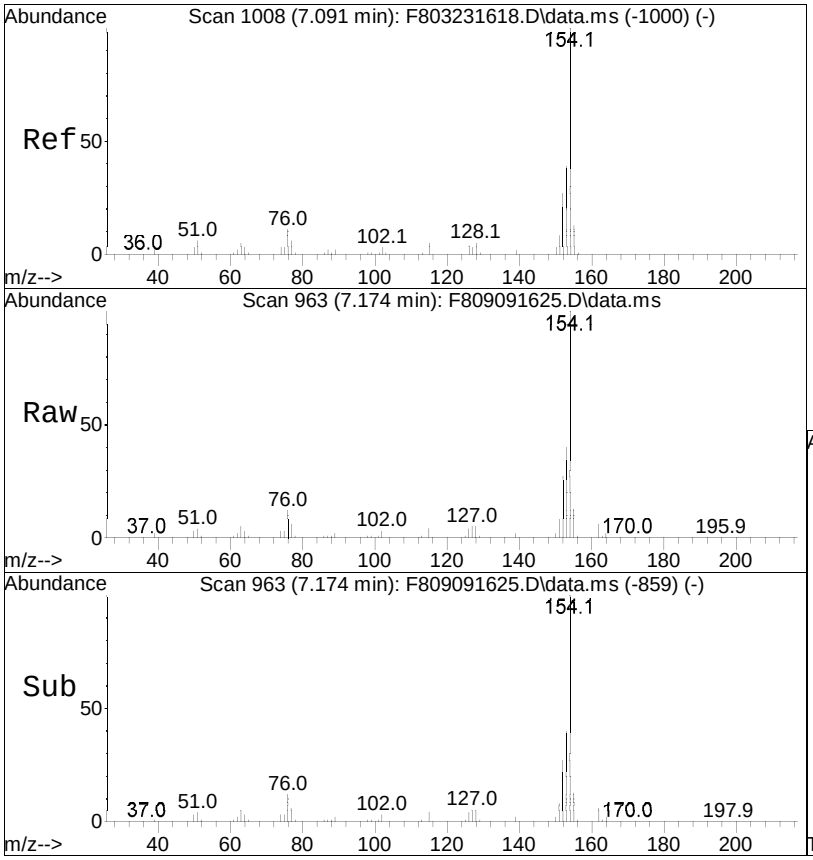


#42
2,4,5-Trichlorophenol
Concen: 10.33 ug/mL M6
RT: 7.034 min Scan# 934
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:196 Resp: 314347

Ion	Ratio	Lower	Upper
196	100		
198	93.8	73.2	109.8
200	30.3	23.9	35.9

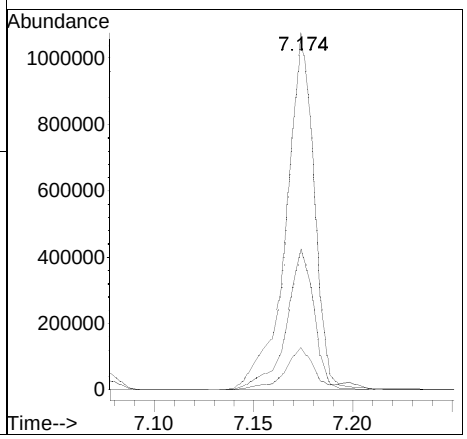


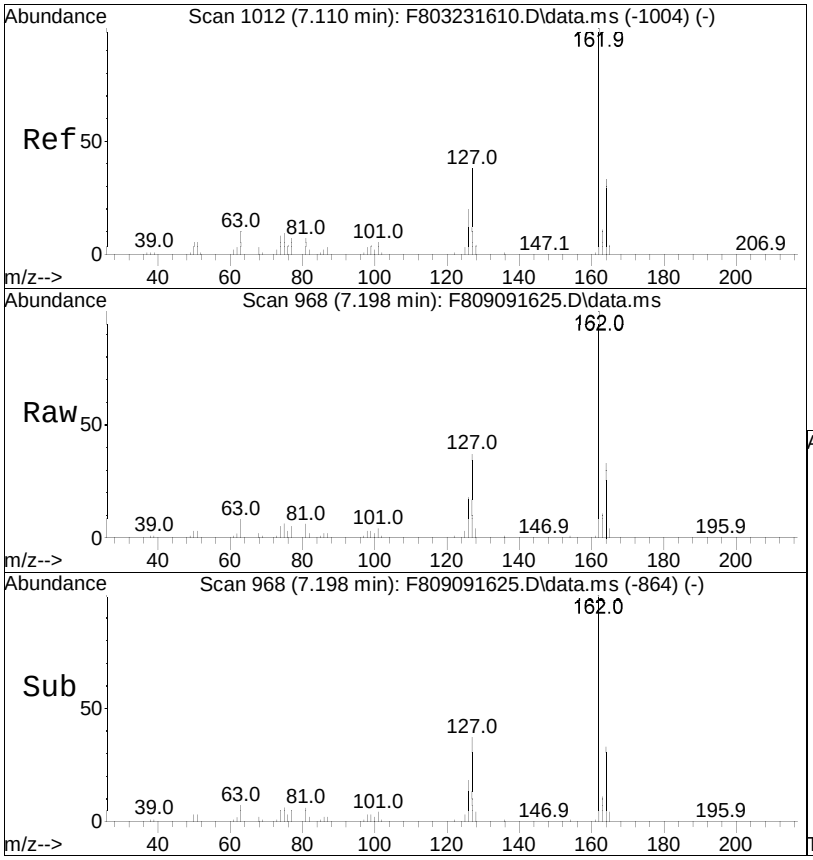


#44
Biphenyl
Concen: 8.06 ug/ml
RT: 7.174 min Scan# 963
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:154 Resp: 1060261

Ion	Ratio	Lower	Upper
154	100		
153	39.1	31.4	47.0
76	13.8	9.8	14.6

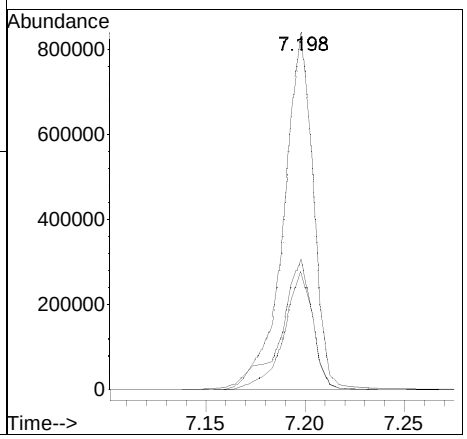


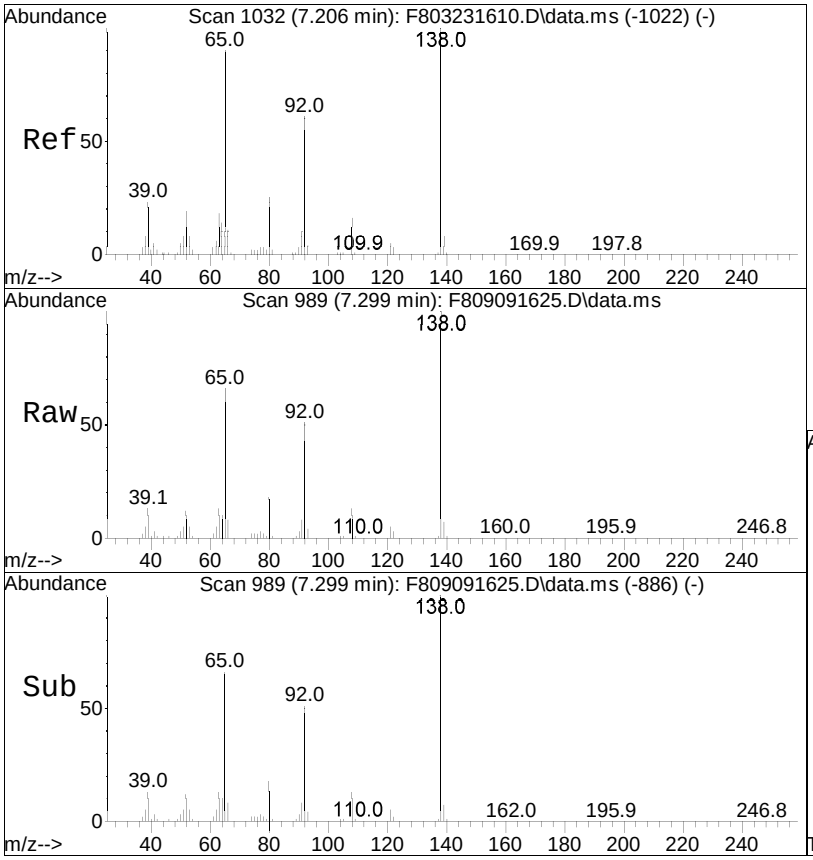


#45
2-Chloronaphthalene
Concen: 8.43 ug/mL
RT: 7.198 min Scan# 968
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:162 Resp: 868357

Ion	Ratio	Lower	Upper
162	100		
164	32.9	26.4	39.6
127	39.1	30.2	45.2

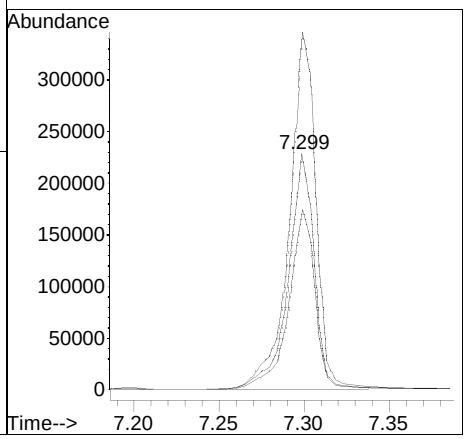


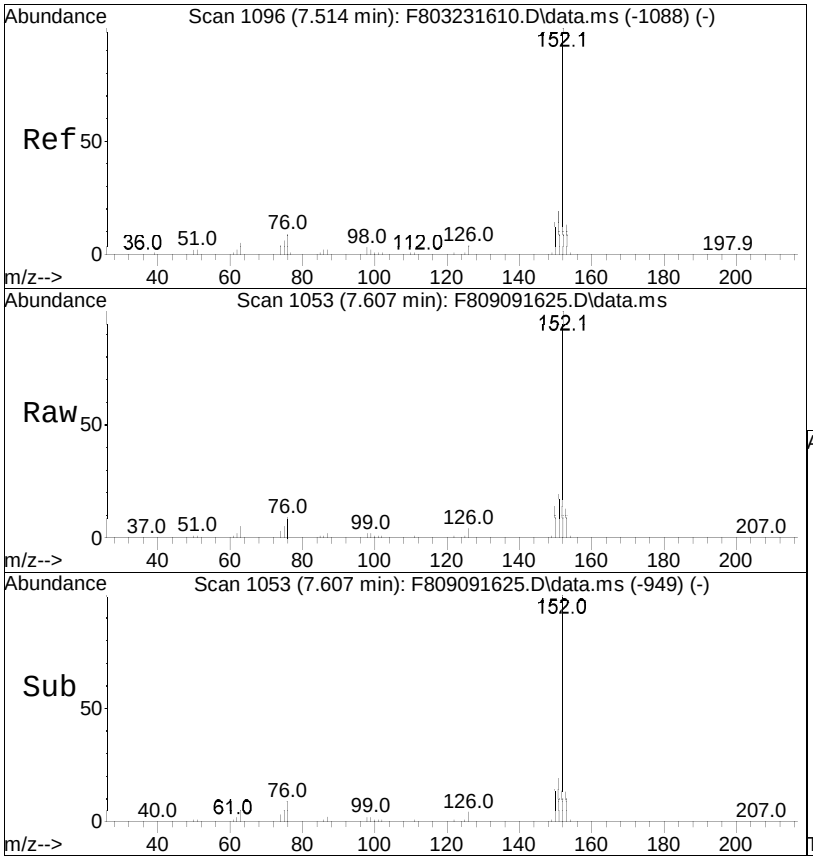


#46
2-Nitroaniline
Concen: 10.13 ug/mL
RT: 7.299 min Scan# 989
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion: 65 Resp: 241152

Ion	Ratio	Lower	Upper
65	100		
92	77.4	61.0	91.4
138	154.2	122.0	183.0

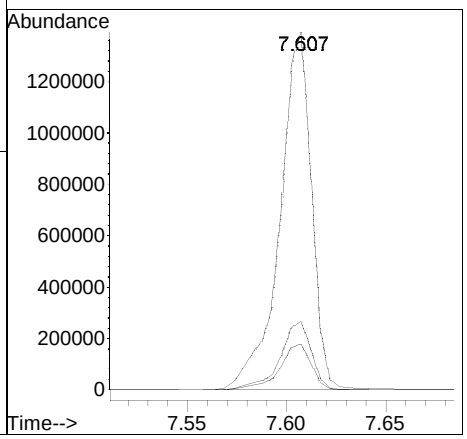


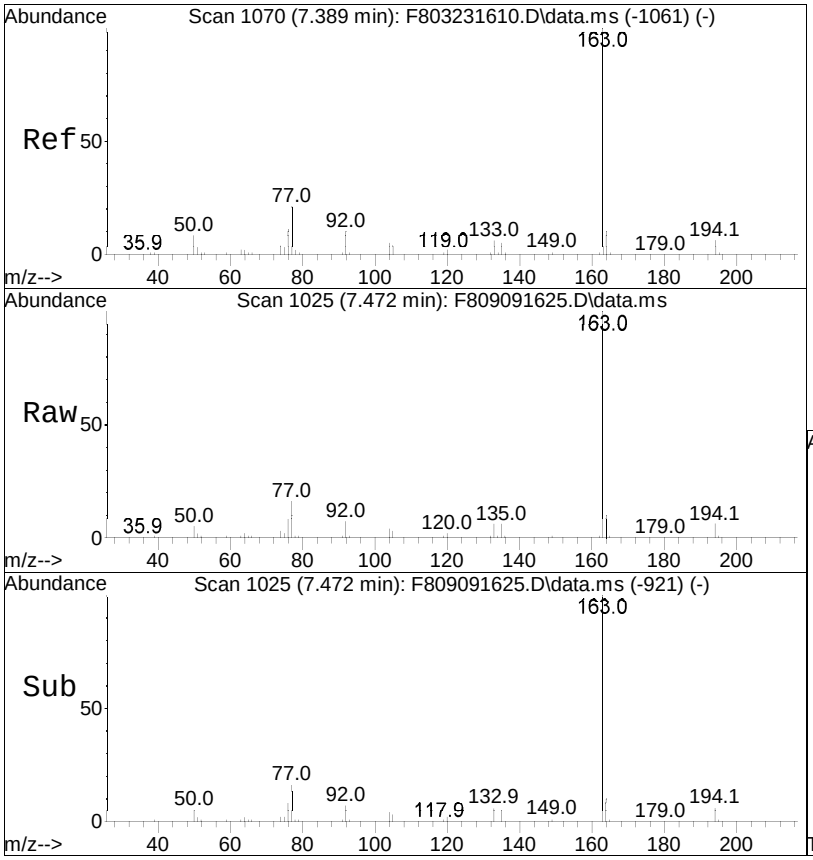


#47
Acenaphthylene
Concen: 9.00 ug/mL
RT: 7.607 min Scan# 1053
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:152 Resp: 1531268

Ion	Ratio	Lower	Upper
152	100		
151	19.1	15.8	23.8
153	12.9	10.6	16.0

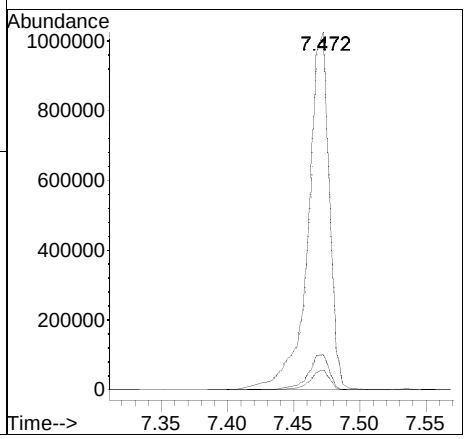


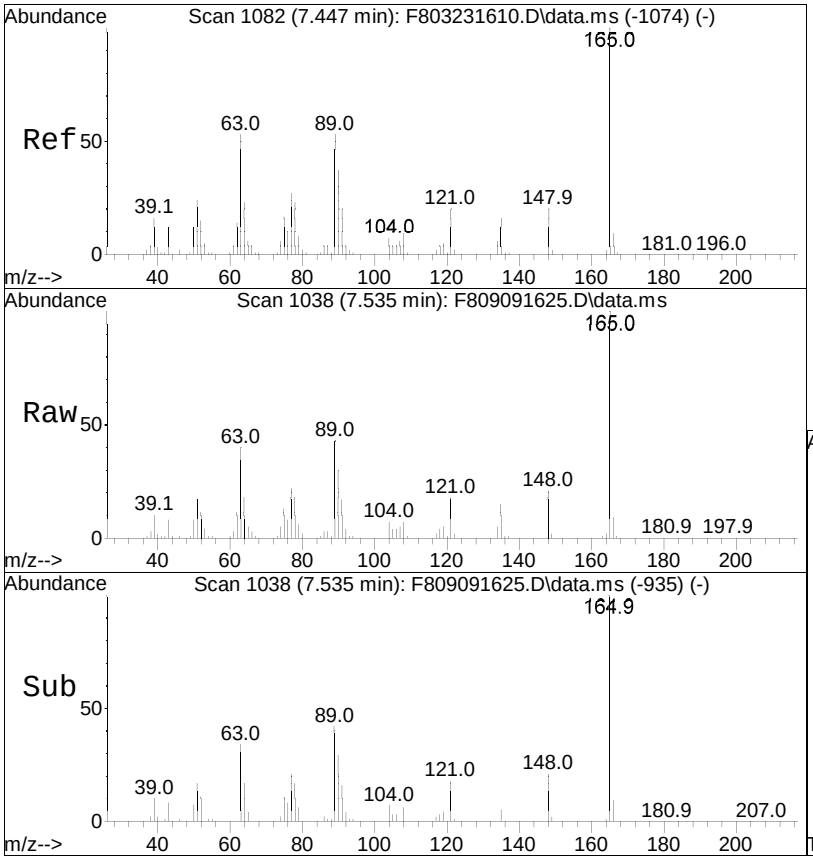


#48
Dimethylphthalate
Concen: 10.27 ug/mL
RT: 7.472 min Scan# 1025
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:163 Resp: 1137111

Ion	Ratio	Lower	Upper
163	100		
194	5.5	4.4	6.6
164	10.2	8.3	12.5

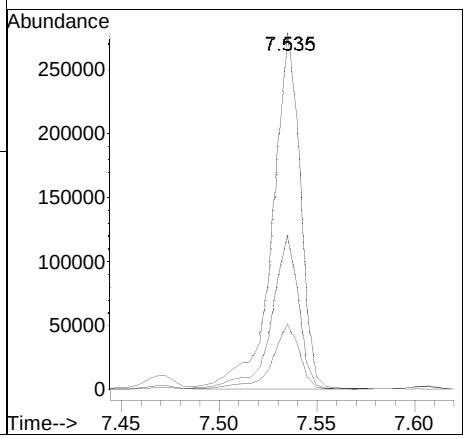


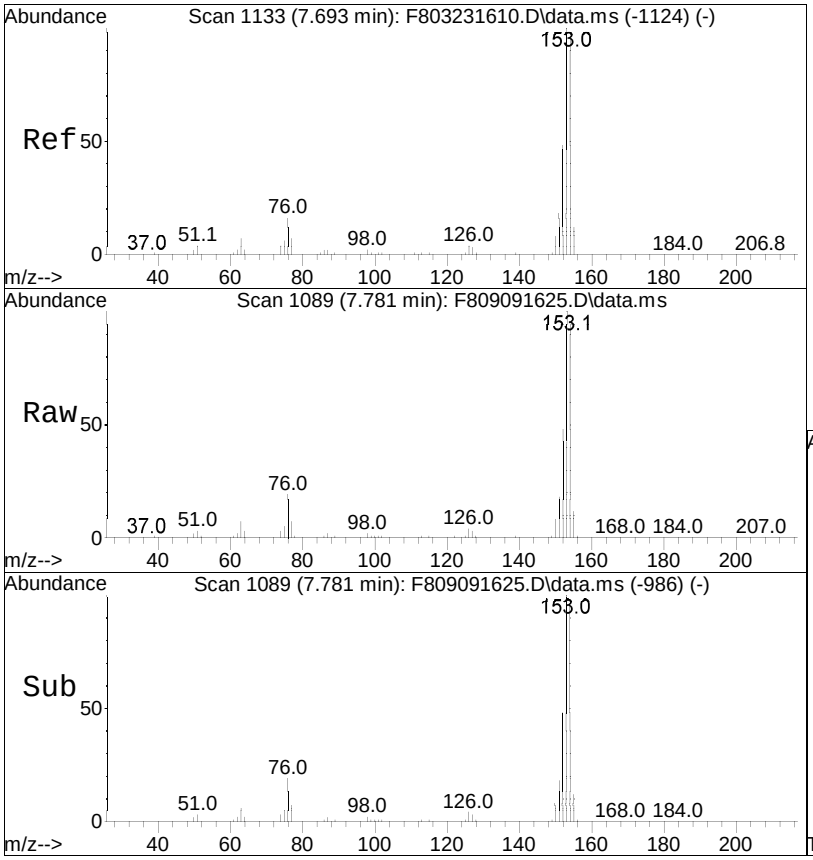


#49
2,6-Dinitrotoluene
Concen: 10.71 ug/mL M4
RT: 7.535 min Scan# 1038
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:165 Resp: 275623

Ion	Ratio	Lower	Upper
165	100		
89	41.4	40.5	60.7
121	18.1	16.6	25.0

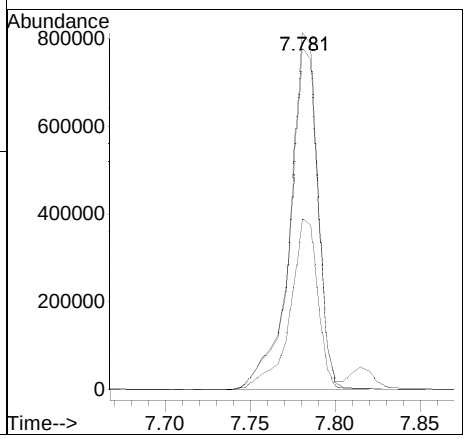


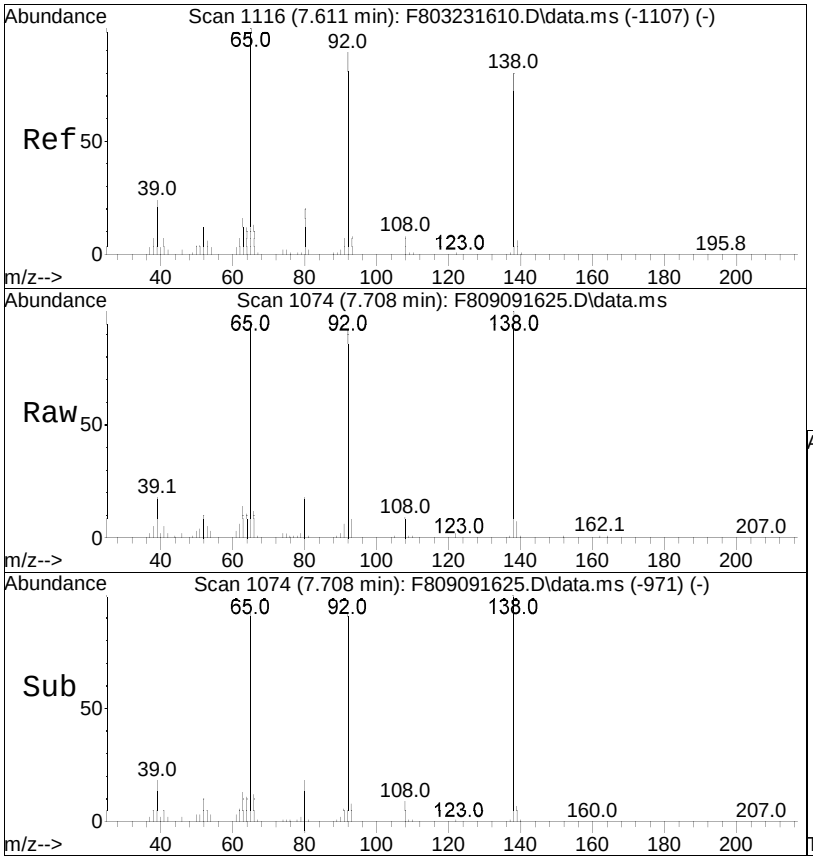


#50
Acenaphthene
Concen: 9.00 ug/mL
RT: 7.781 min Scan# 1089
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:153 Resp: 932500

Ion	Ratio	Lower	Upper
153	100		
154	96.2	75.4	113.0
152	47.3	39.3	58.9

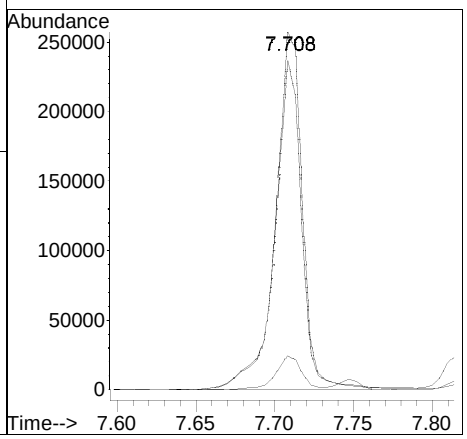


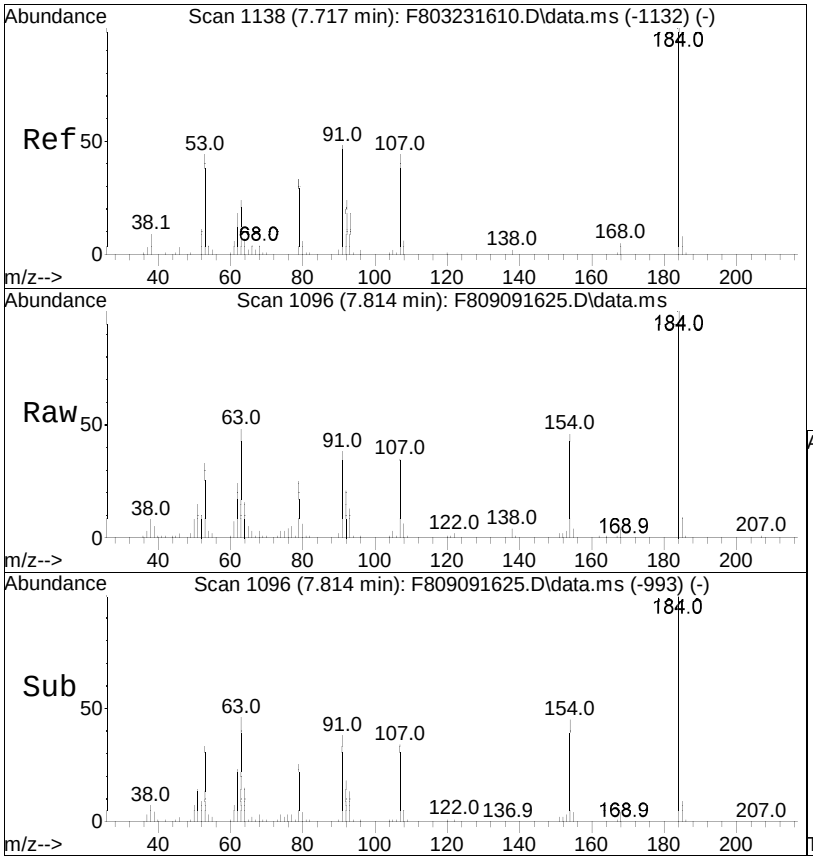


#51
3-Nitroaniline
Concen: 10.27 ug/mL M4
RT: 7.708 min Scan# 1074
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:138 Resp: 302247

Ion	Ratio	Lower	Upper
138	100		
108	9.9	8.9	13.3
92	83.5	72.2	108.4

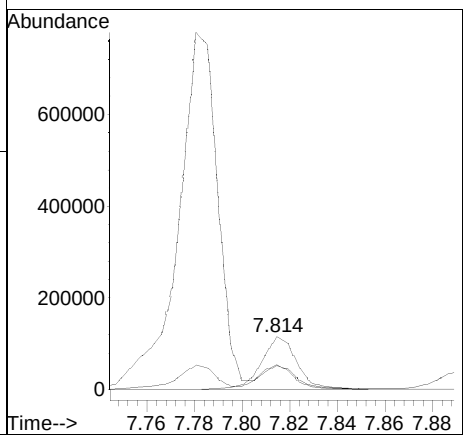


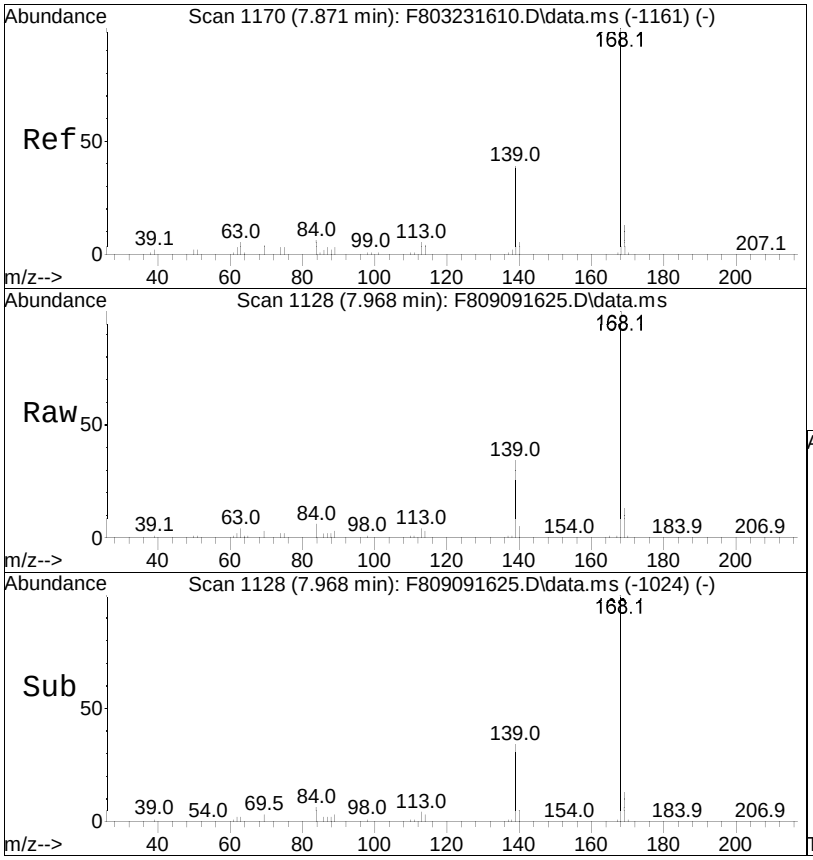


#52
2,4-Dinitrophenol
Concen: 9.78 ug/mL
RT: 7.814 min Scan# 1096
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:184 Resp: 118733

Ion	Ratio	Lower	Upper
184	100		
63	46.2	43.8	65.6
154	30.9	37.1	55.7#

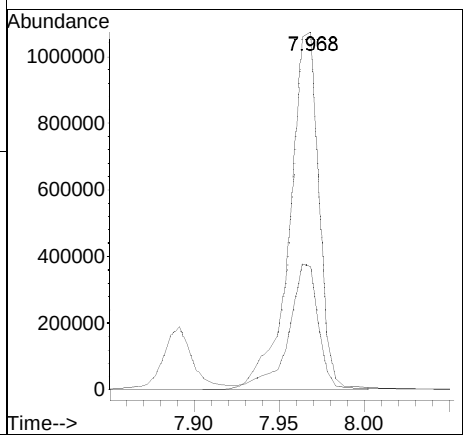


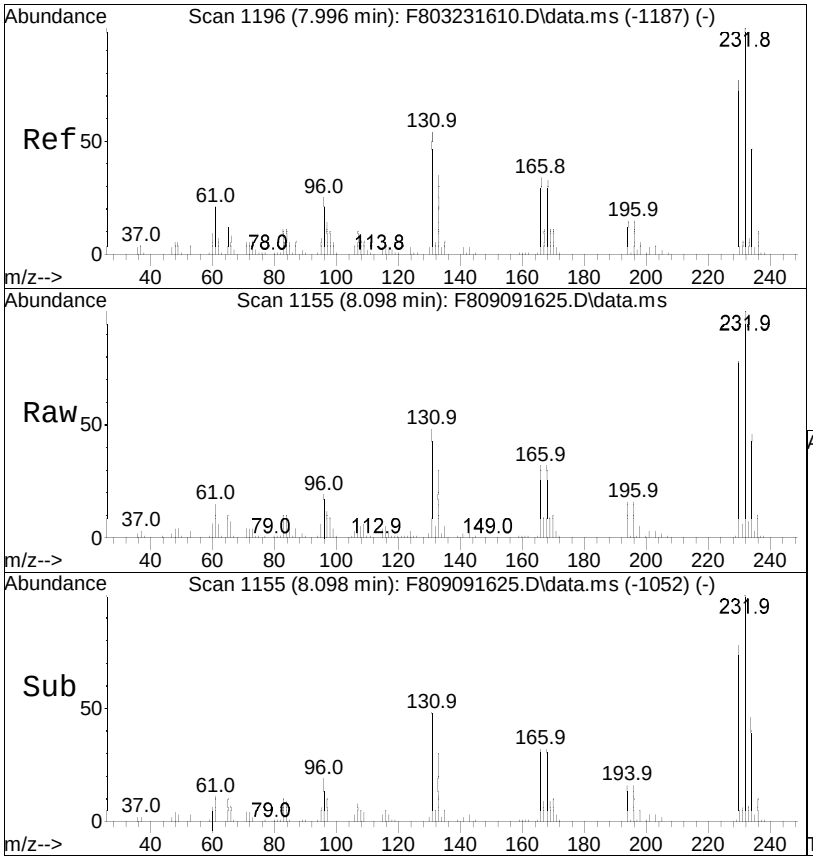


#53
Dibenzofuran
Concen: 9.43 ug/mL
RT: 7.968 min Scan# 1128
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:168 Resp: 1275129

Ion	Ratio	Lower	Upper
168	100		
139	35.2	28.8	43.2

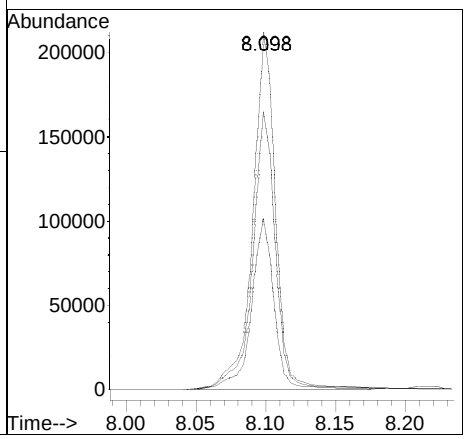


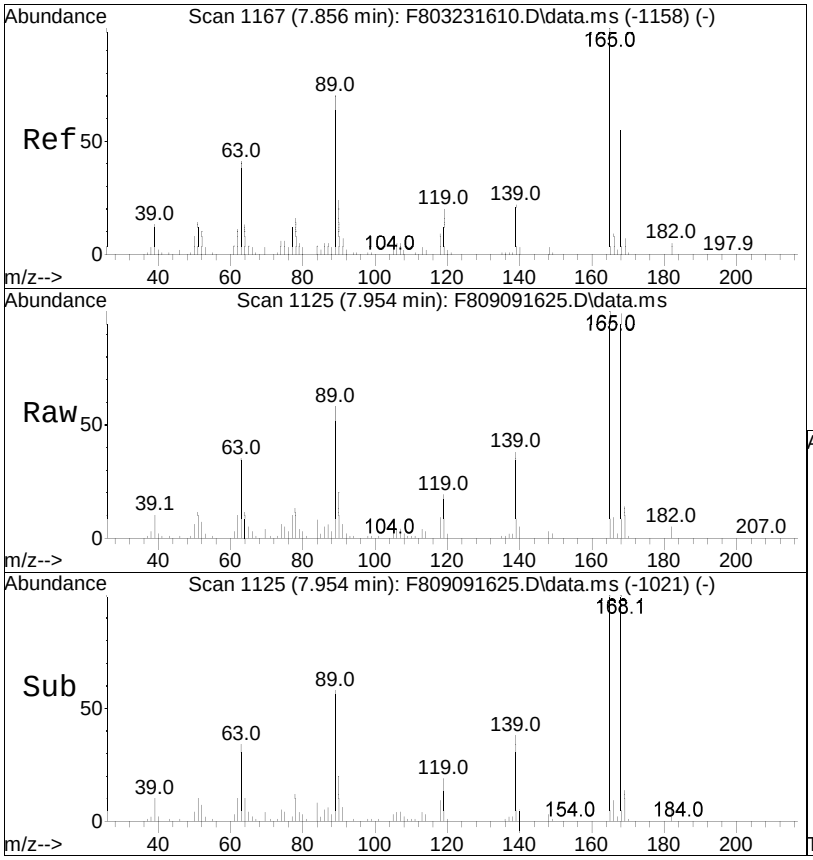


#54
2,3,4,6-Tetrachlorophenol
Concen: 11.55 ug/mL M4
RT: 8.098 min Scan# 1155
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:232 Resp: 236994

Ion	Ratio	Lower	Upper
232	100		
131	44.9	43.1	64.7
230	73.0	63.0	94.6

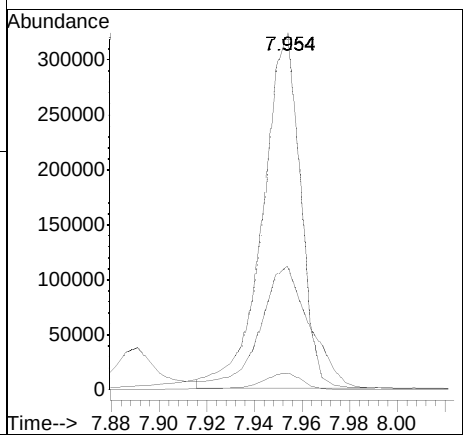


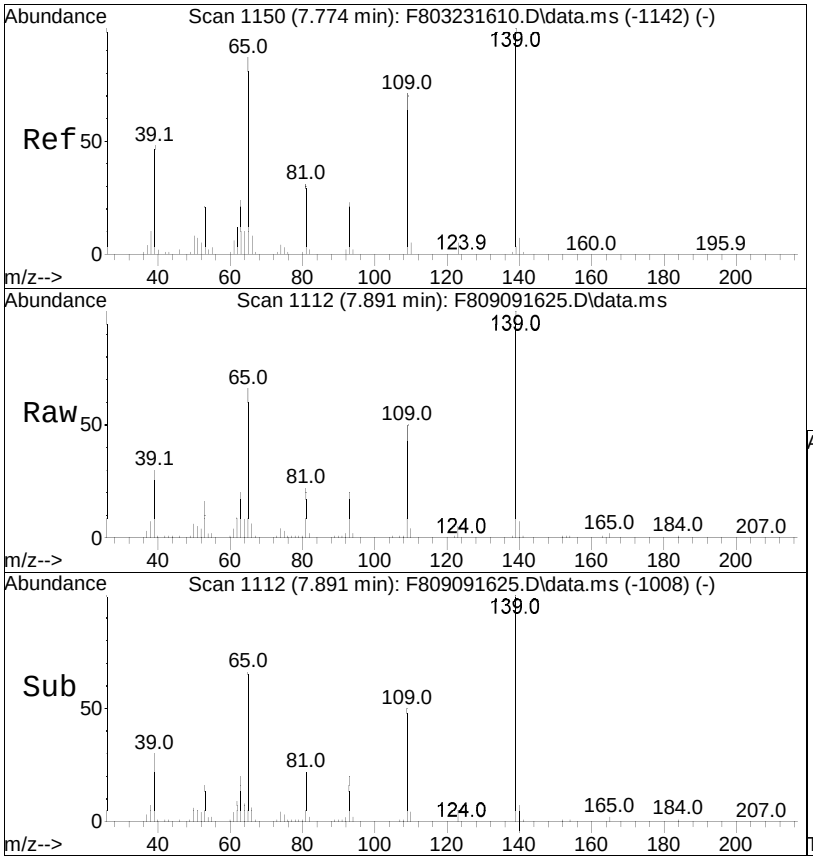


#55
2,4-Dinitrotoluene
Concen: 10.72 ug/mL
RT: 7.954 min Scan# 1125
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:165 Resp: 353889

Ion	Ratio	Lower	Upper
165	100		
63	45.9	30.9	46.3
182	4.9	3.5	5.3

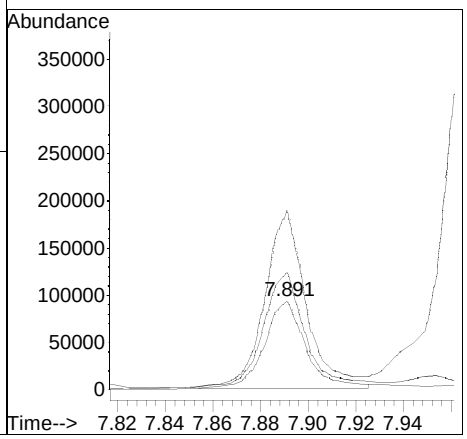


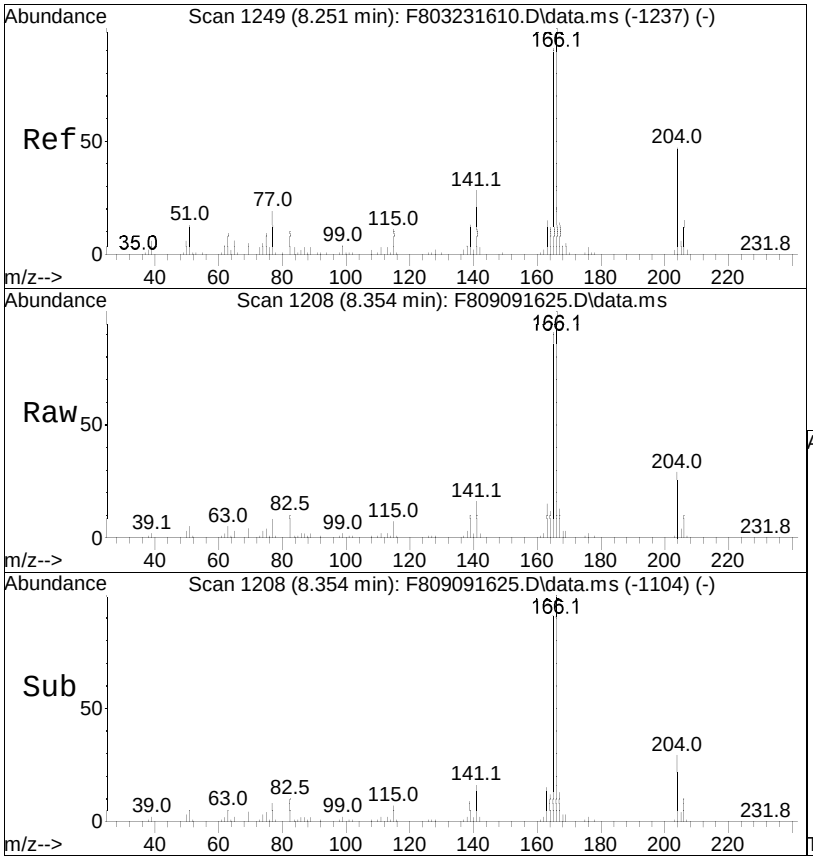


#56
4-Nitrophenol
Concen: 10.02 ug/mL
RT: 7.891 min Scan# 1112
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:109 Resp: 111739

Ion	Ratio	Lower	Upper
109	100		
139	199.6	149.7	224.5
65	136.4	107.3	160.9

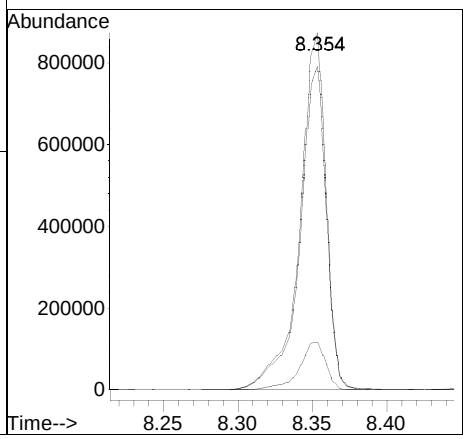


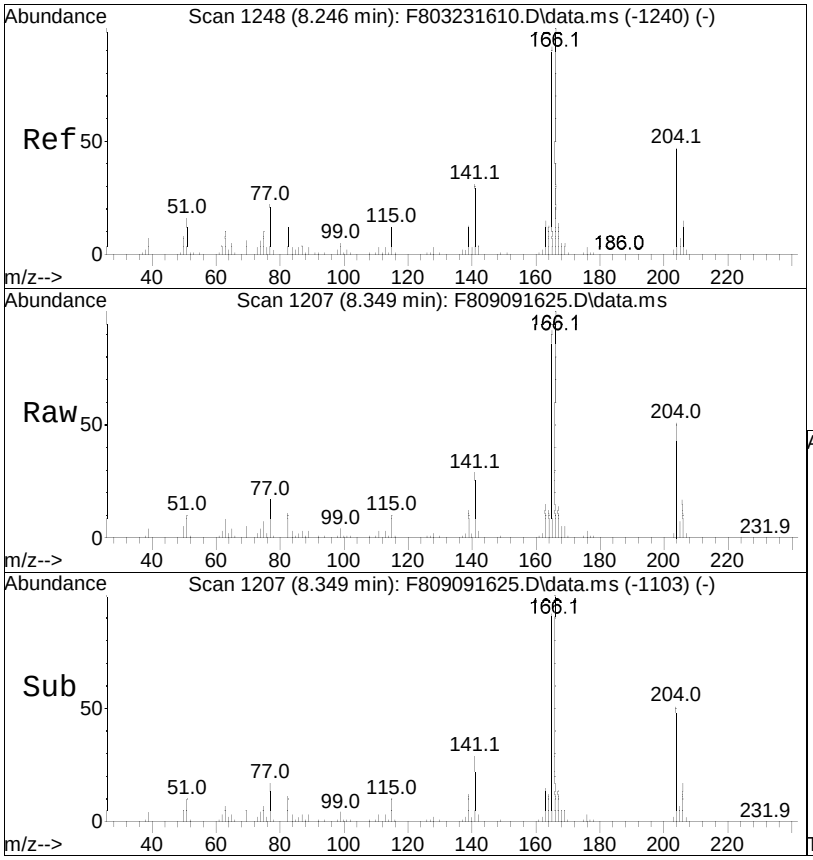


#57
Fluorene
Concen: 9.69 ug/mL
RT: 8.354 min Scan# 1208
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:166 Resp: 1079498

Ion	Ratio	Lower	Upper
166	100		
165	91.1	72.9	109.3
167	13.6	10.9	16.3

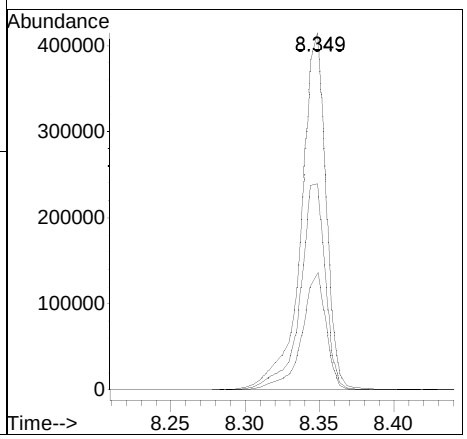


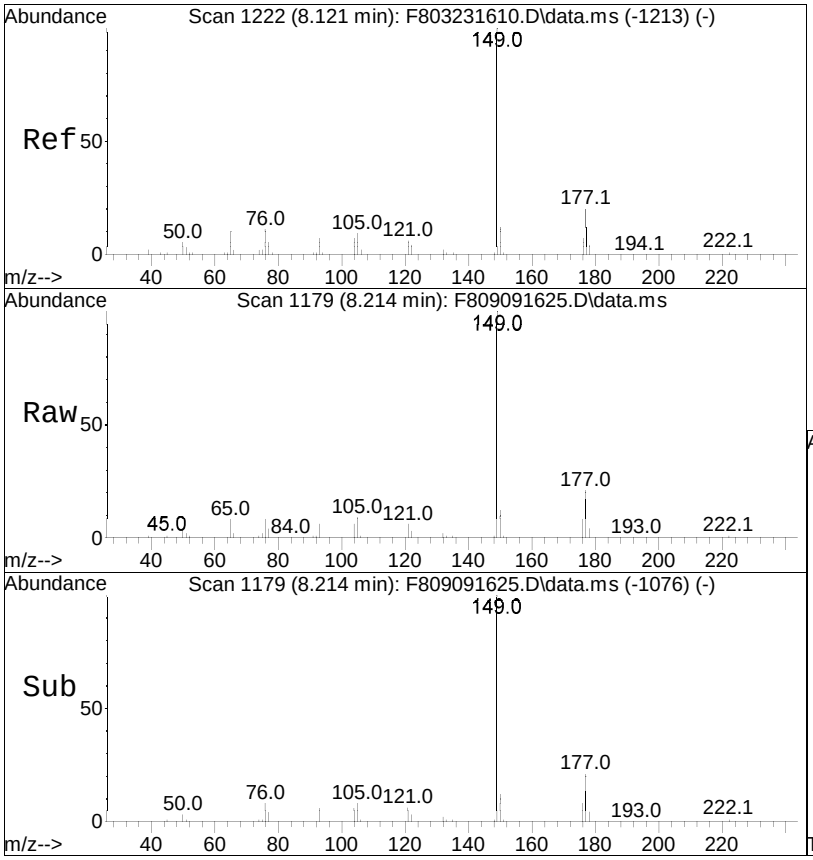


#58
4-Chlorophenyl-phenylether
Concen: 9.75 ug/mL
RT: 8.349 min Scan# 1207
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:204 Resp: 486030

Ion	Ratio	Lower	Upper
204	100		
206	32.5	25.9	38.9
141	58.8	46.2	69.4

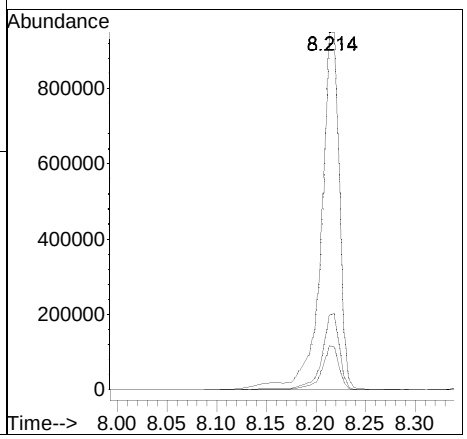


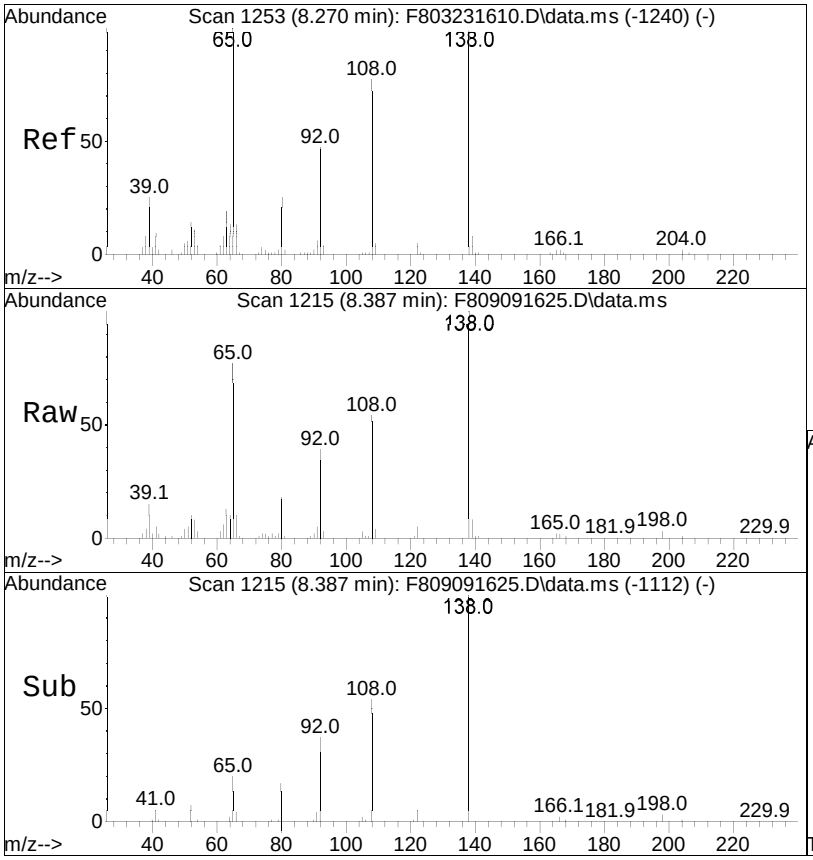


#59
Diethylphthalate
Concen: 10.66 ug/mL
RT: 8.214 min Scan# 1179
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:149 Resp: 1206216

Ion	Ratio	Lower	Upper
149	100		
177	21.0	16.6	24.8
150	12.1	9.8	14.6

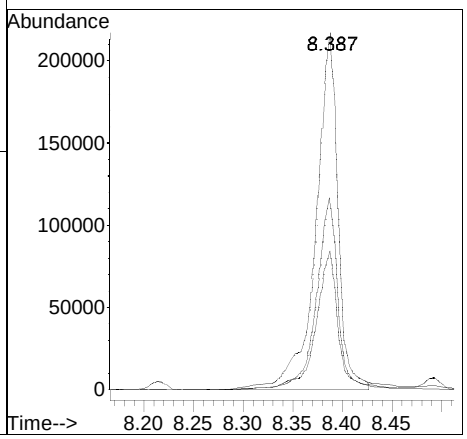


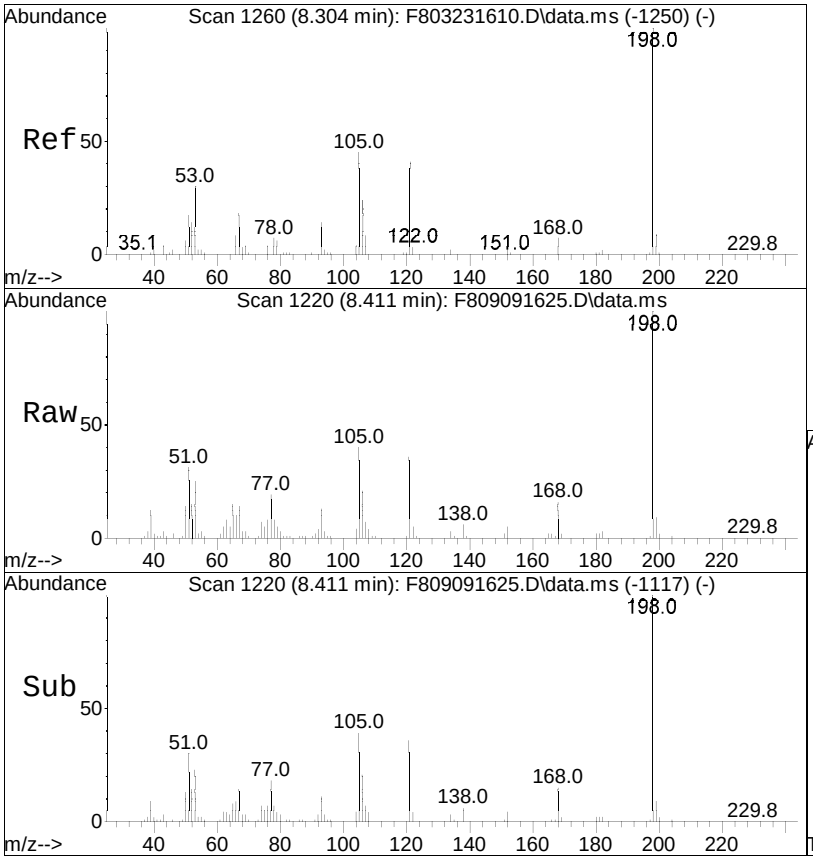


#60
4-Nitroaniline
Concen: 11.00 ug/mL
RT: 8.387 min Scan# 1215
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:138 Resp: 334500

Ion	Ratio	Lower	Upper
138	100		
92	40.4	32.7	49.1
108	52.3	45.8	68.6

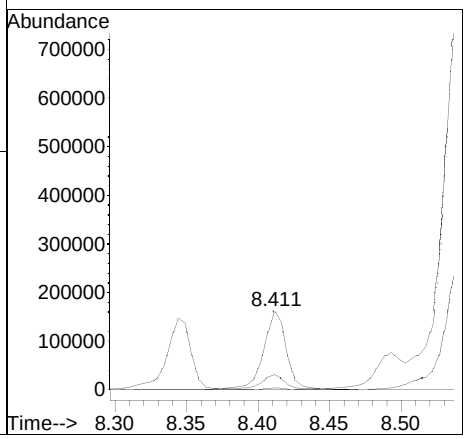


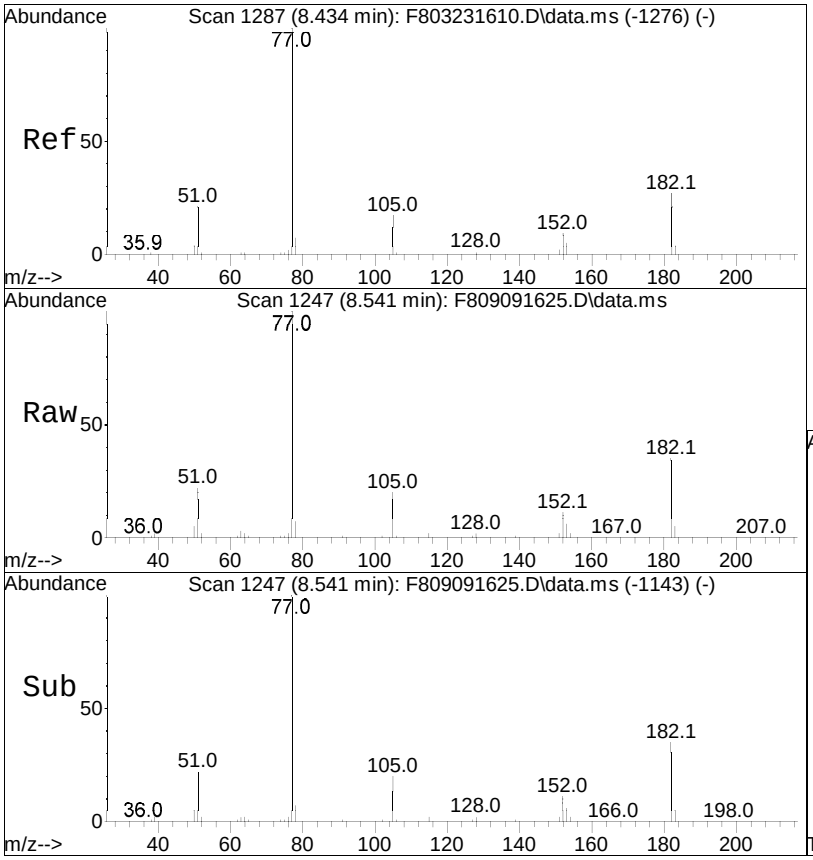


#62
4,6-Dinitro-2-methylphenol
Concen: 10.63 ug/mL M4
RT: 8.411 min Scan# 1220
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:198 Resp: 179198

Ion	Ratio	Lower	Upper
198	100		
182	2.7	2.2	3.2
77	16.2	16.8	25.2#

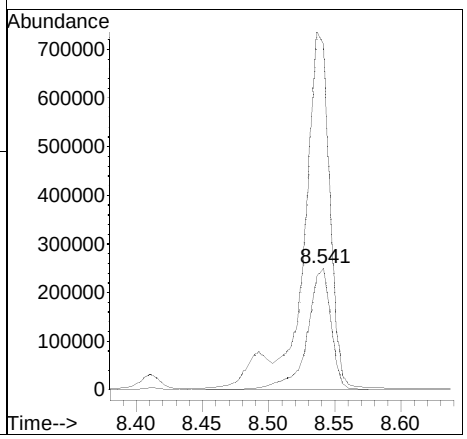


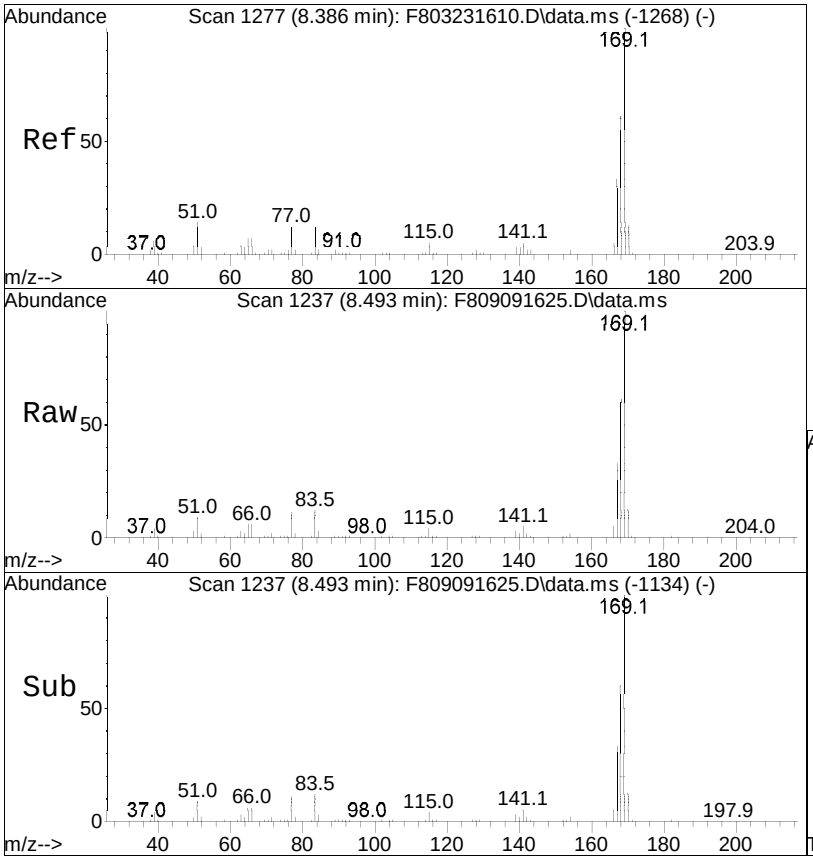


#63
Azobenzene
Concen: 10.64 ug/mL
RT: 8.541 min Scan# 1247
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:182 Resp: 314203

Ion	Ratio	Lower	Upper
182	100		
77	287.6	54.9	631.7

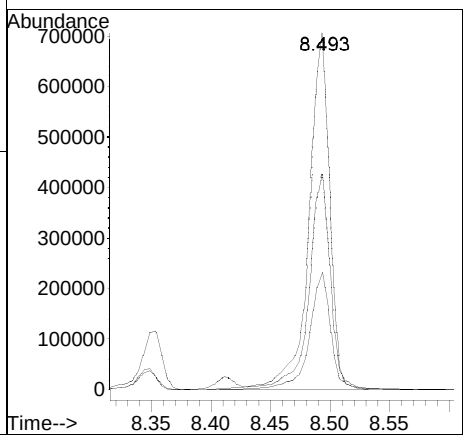


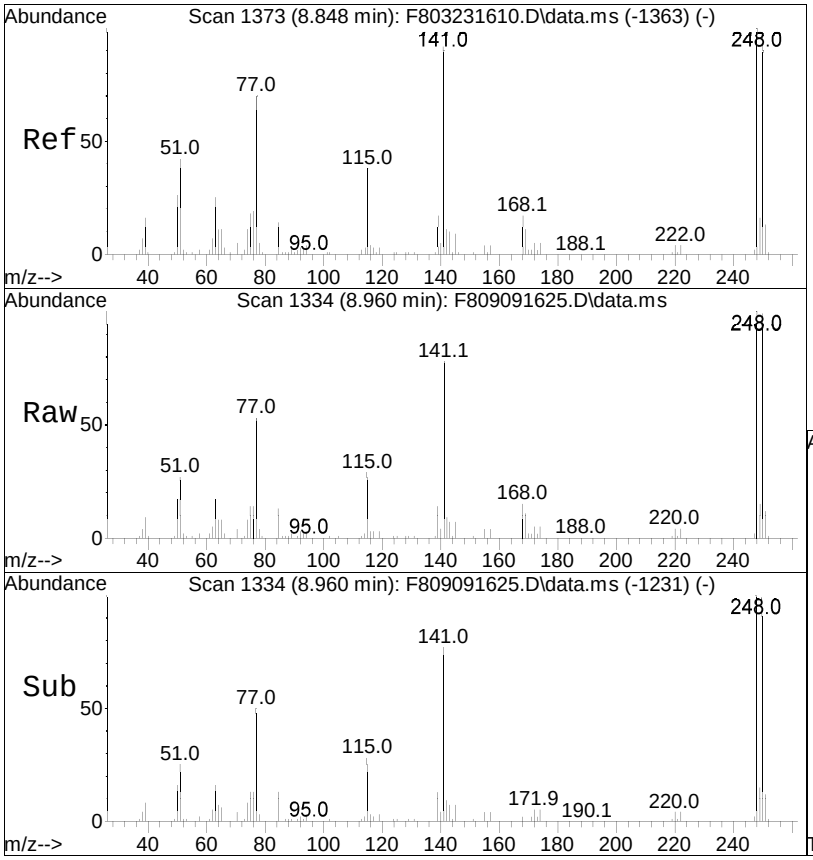


#64
n-Nitrosodiphenylamine
Concen: 11.09 ug/mL
RT: 8.493 min Scan# 1237
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:169 Resp: 857595

Ion	Ratio	Lower	Upper
169	100		
168	60.8	49.4	74.2
167	33.7	26.7	40.1

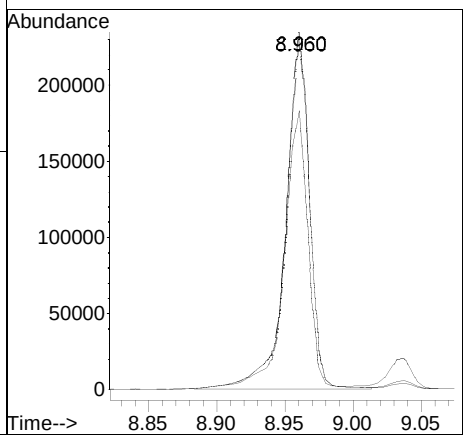


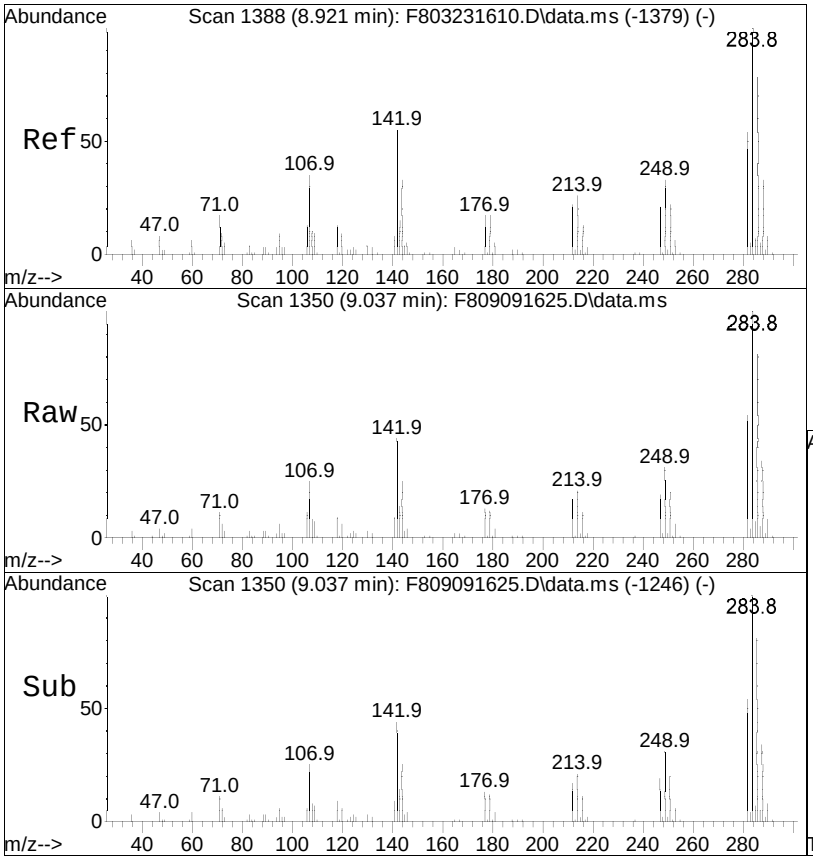


#66
4-Bromophenyl-phenylether
Concen: 10.48 ug/mL M4
RT: 8.960 min Scan# 1334
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:248 Resp: 283049

Ion	Ratio	Lower	Upper
248	100		
250	92.4	77.3	115.9
141	72.4	61.7	92.5

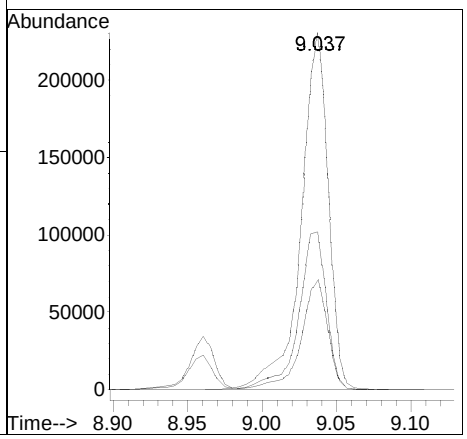


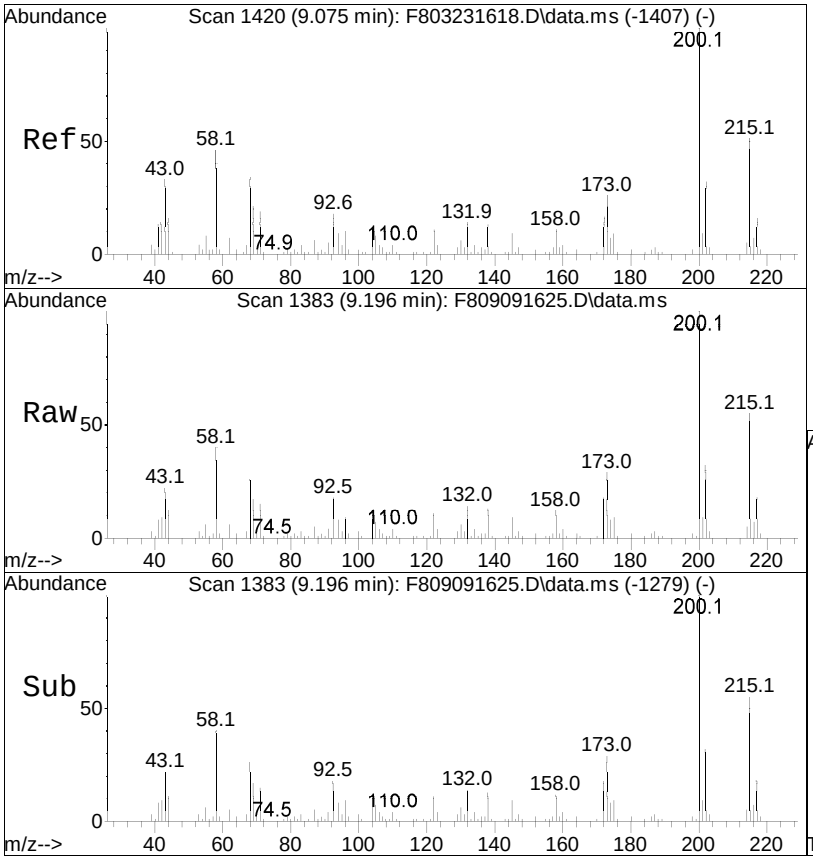


#67
Hexachlorobenzene
Concen: 10.45 ug/mL
RT: 9.037 min Scan# 1350
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:284 Resp: 294978

Ion	Ratio	Lower	Upper
284	100		
142	44.9	37.8	56.6
249	30.3	24.8	37.2

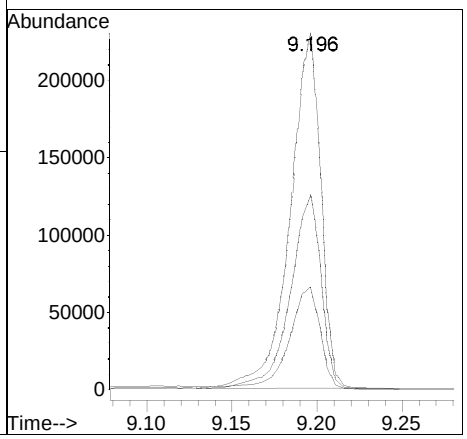


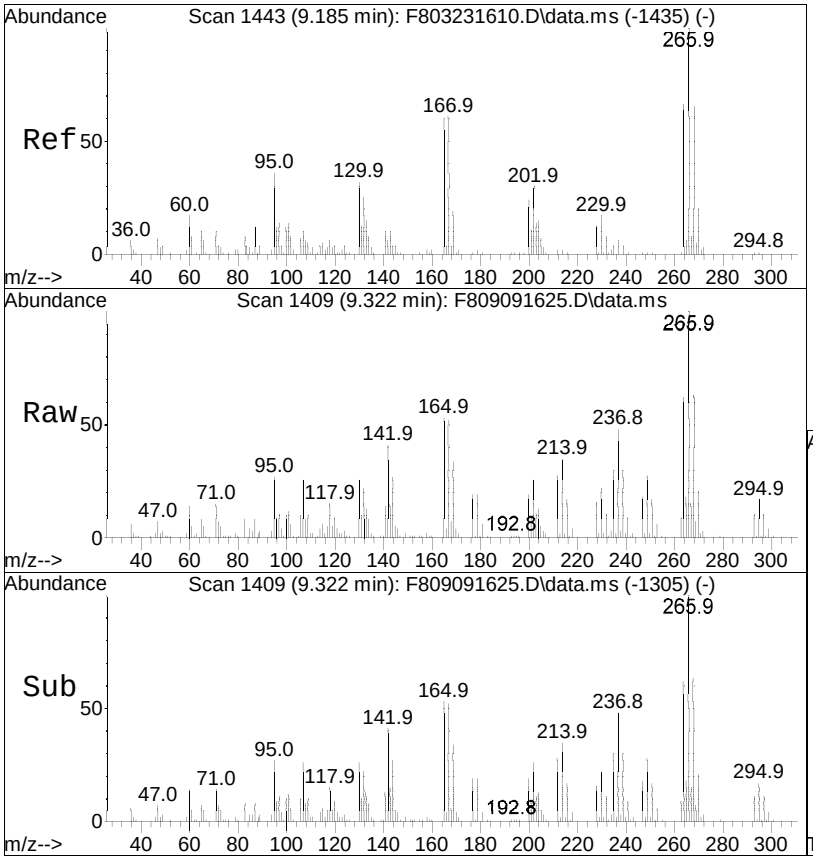


#68
Atrazine
Concen: 9.60 ug/ml
RT: 9.196 min Scan# 1383
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:200 Resp: 286314

Ion	Ratio	Lower	Upper
200	100		
173	29.0	22.4	33.6
215	55.1	43.8	65.6

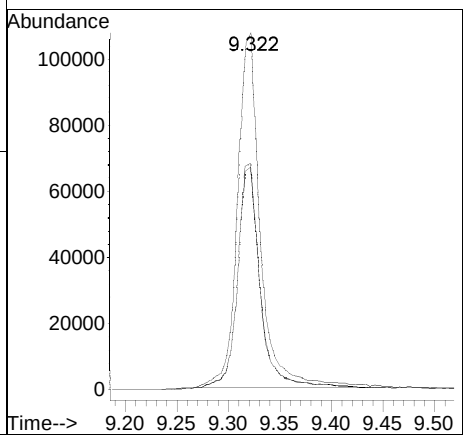


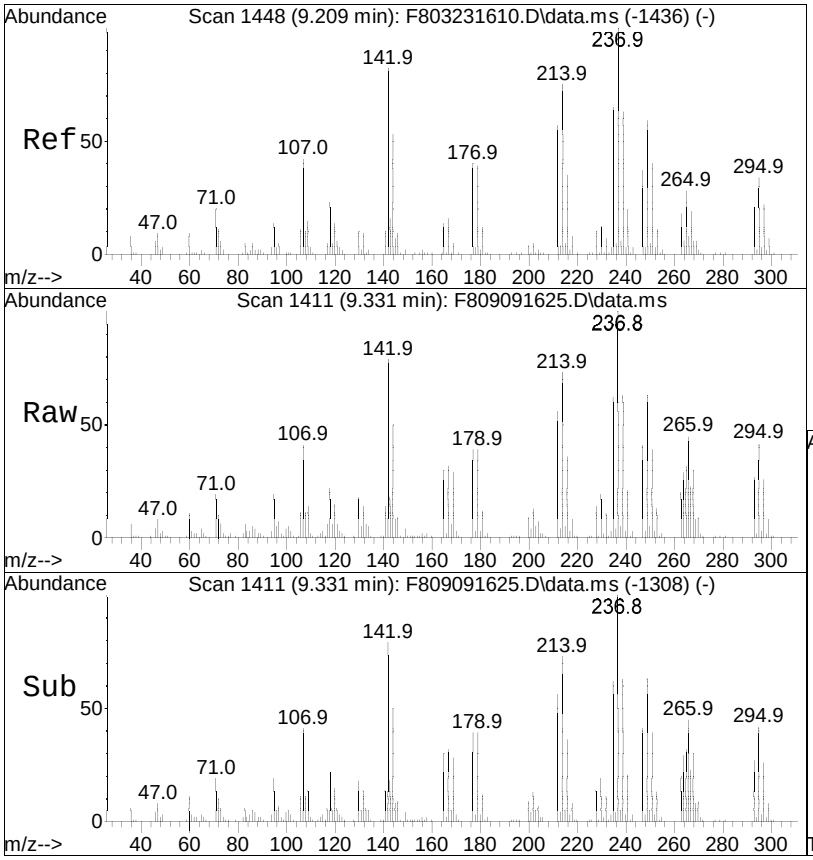


#69
Pentachlorophenol
Concen: 10.49 ug/mL M4
RT: 9.322 min Scan# 1409
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:266 Resp: 165011

Ion	Ratio	Lower	Upper
266	100		
264	60.9	49.7	74.5
268	62.7	48.1	72.1

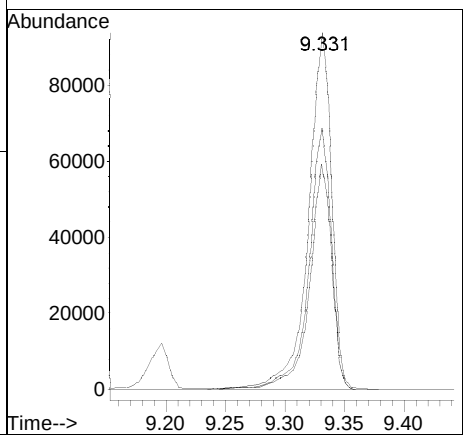


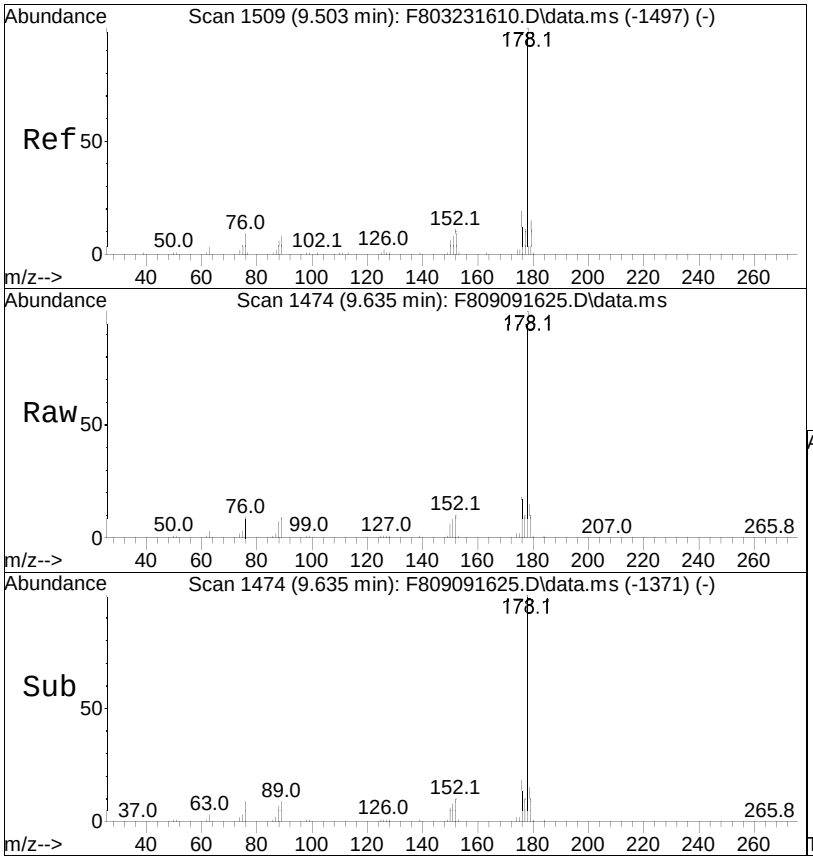


#70
Pentachloronitrobenzene
Concen: 11.42 ug/ml
RT: 9.331 min Scan# 1411
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:237 Resp: 128435

Ion	Ratio	Lower	Upper
237	100		
214	71.4	63.4	95.2
249	60.6	54.9	82.3

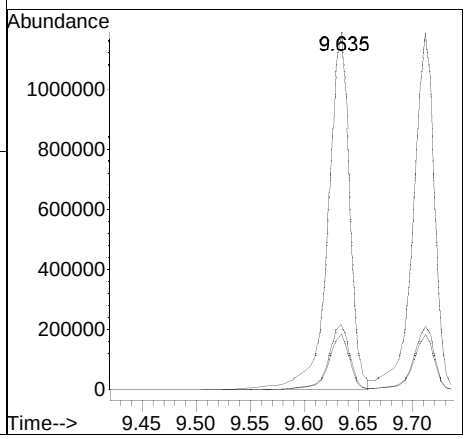


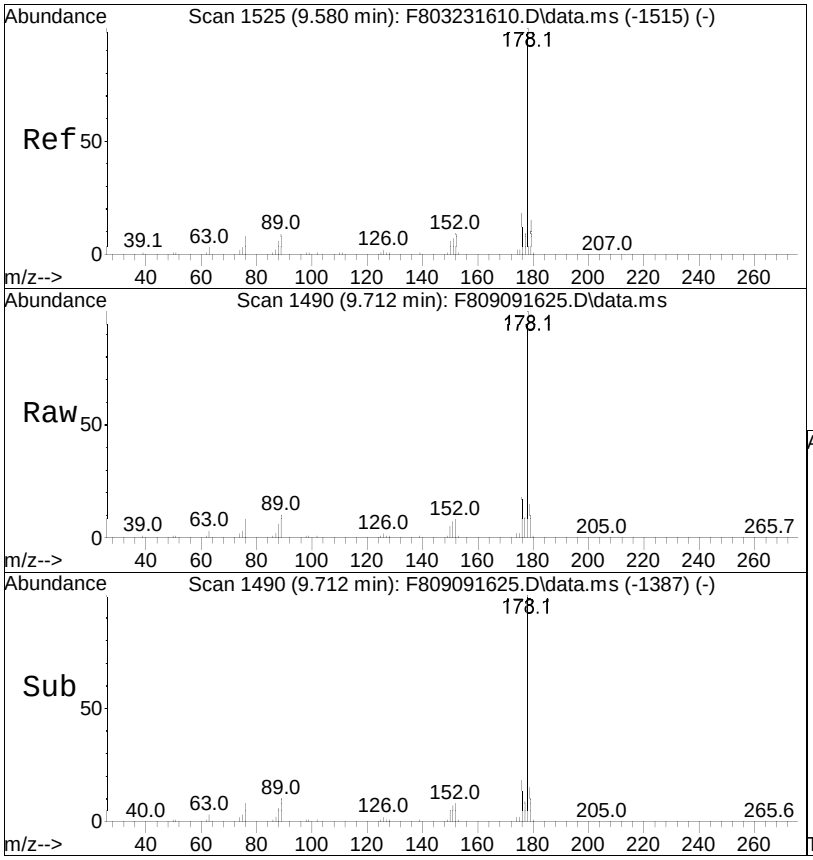


#71
Phenanthrene
Concen: 10.48 ug/mL
RT: 9.635 min Scan# 1474
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:178 Resp: 1658458

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.4	18.6
176	18.2	15.0	22.6

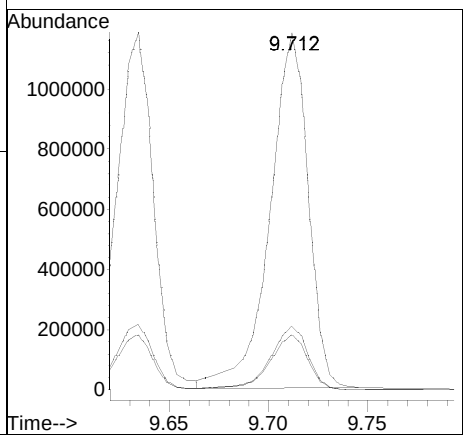


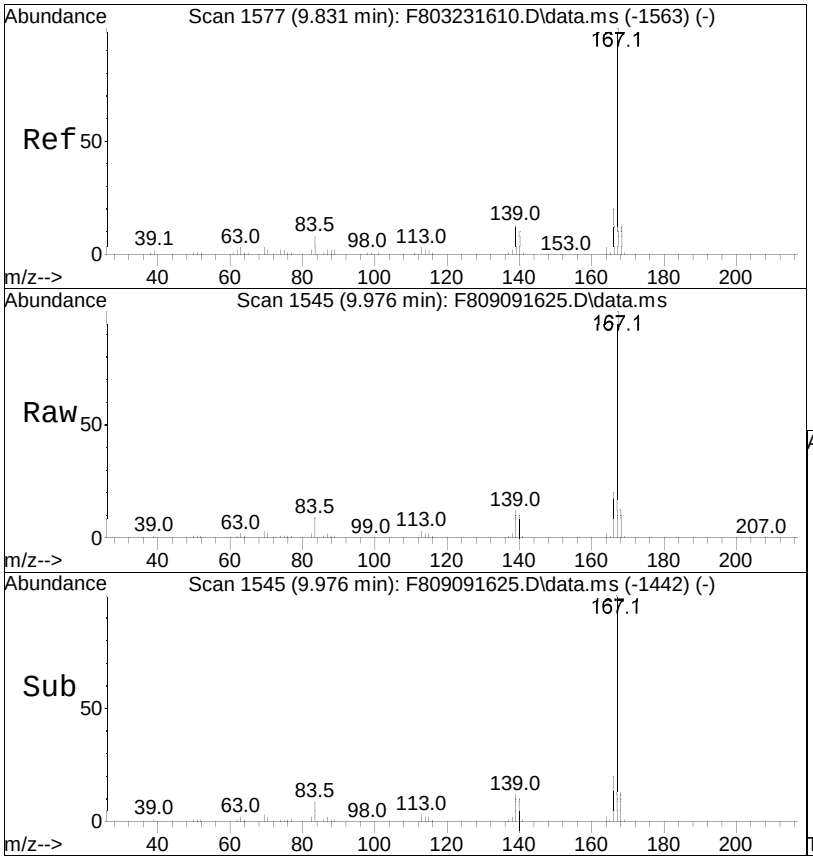


#72
Anthracene
Concen: 10.09 ug/mL
RT: 9.712 min Scan# 1490
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:178 Resp: 1576462

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8
176	17.7	14.6	22.0

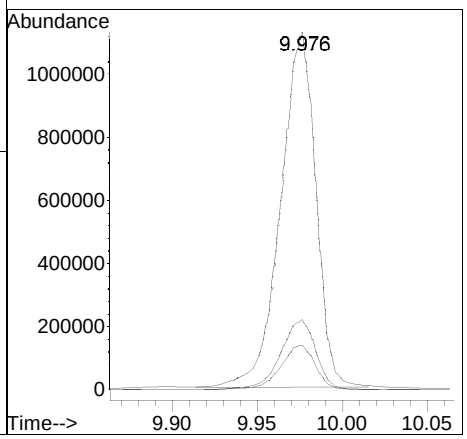


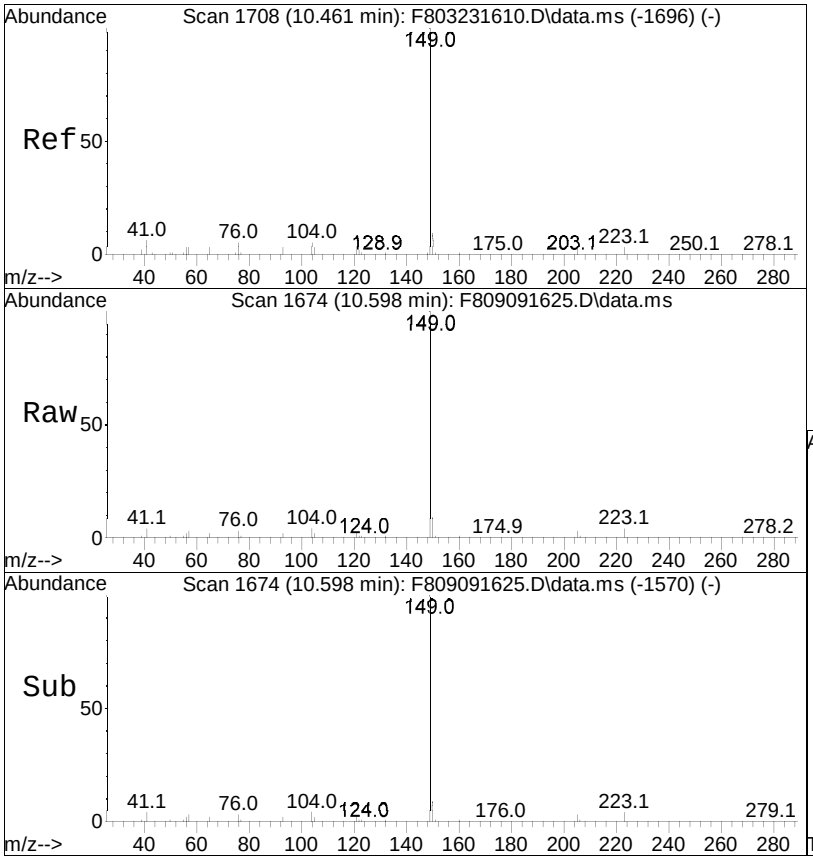


#73
Carbazole
Concen: 10.65 ug/mL
RT: 9.976 min Scan# 1545
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:167 Resp: 1599130

Ion	Ratio	Lower	Upper
167	100		
139	12.5	10.3	15.5
166	19.7	15.9	23.9

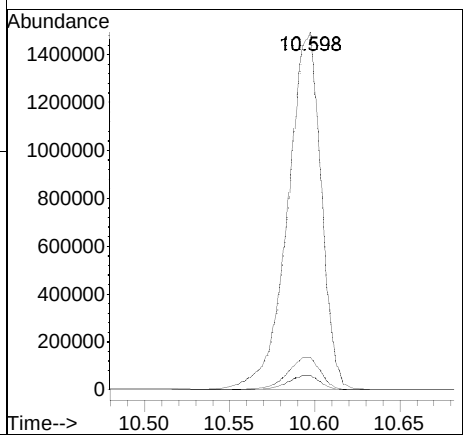


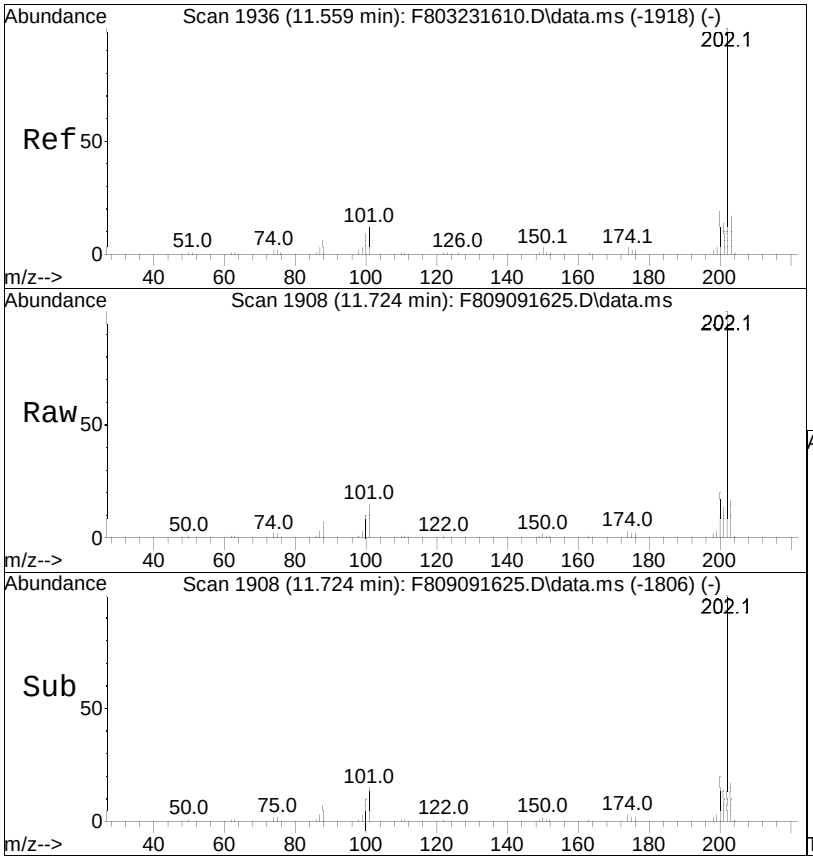


#74
Di-n-butylphthalate
Concen: 11.08 ug/mL
RT: 10.598 min Scan# 1674
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:149 Resp: 2011211

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.2
104	4.2	3.5	5.3

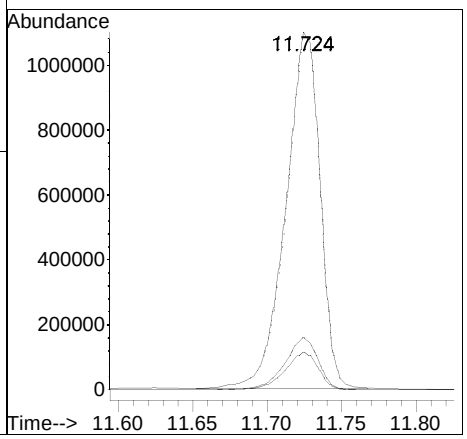


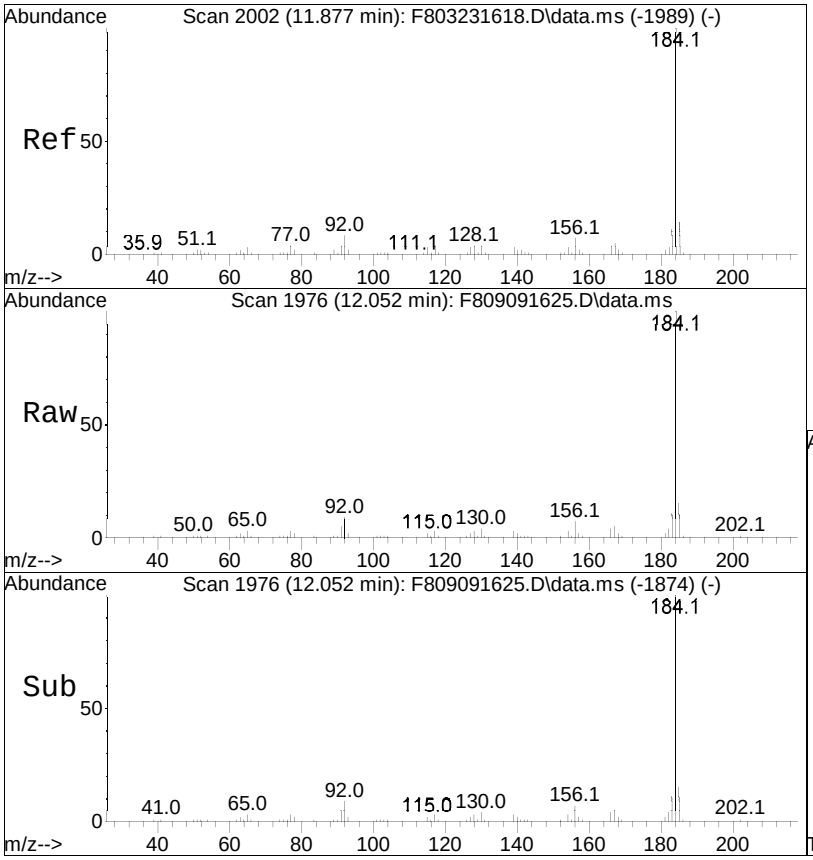


#75
Fluoranthene
Concen: 10.61 ug/mL
RT: 11.724 min Scan# 1908
Delta R.T. -0.010 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:202 Resp: 1736115

Ion	Ratio	Lower	Upper
202	100		
101	14.3	13.4	20.2
100	10.4	9.4	14.2

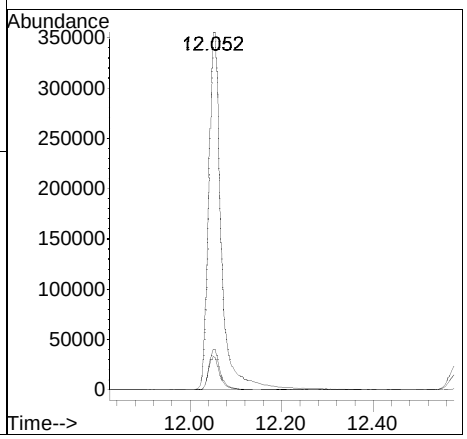


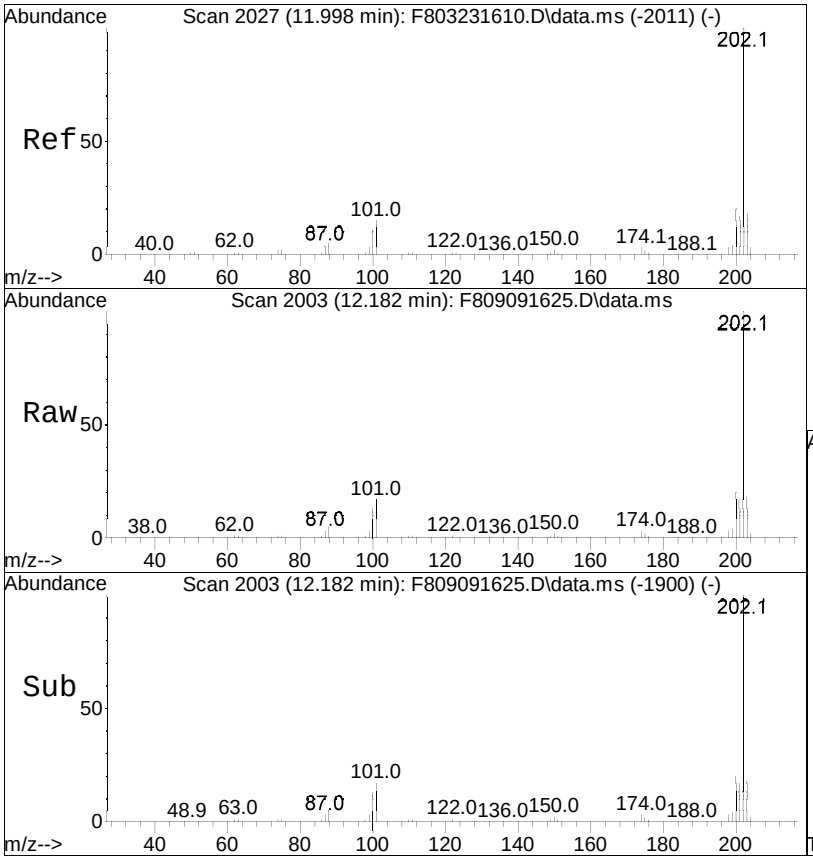


#77
Benzidine
Concen: 5.81 ug/mL
RT: 12.052 min Scan# 1976
Delta R.T. -0.010 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:184 Resp: 661492

Ion	Ratio	Lower	Upper
184	100		
183	11.2	9.0	13.4
92	9.2	7.4	11.2

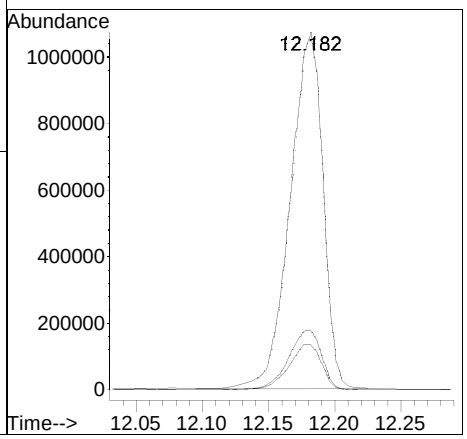


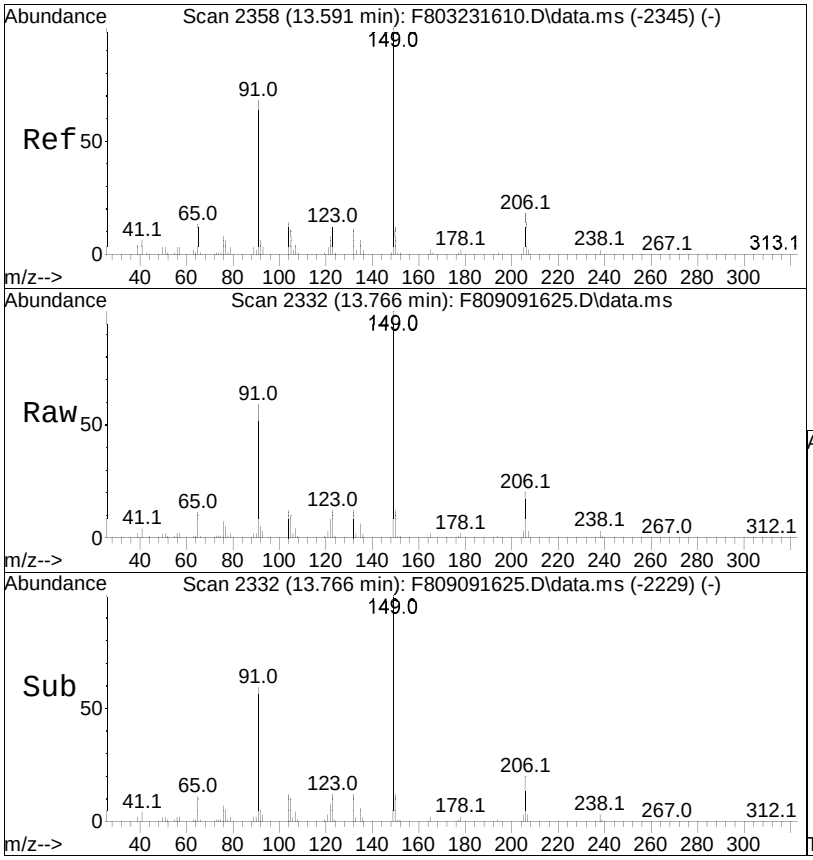


#78
Pyrene
Concen: 10.57 ug/mL
RT: 12.182 min Scan# 2003
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:202 Resp: 1821178

Ion	Ratio	Lower	Upper
202	100		
101	17.1	14.9	22.3
100	13.0	11.4	17.2

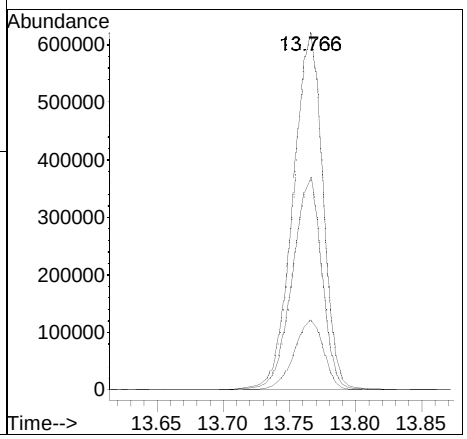


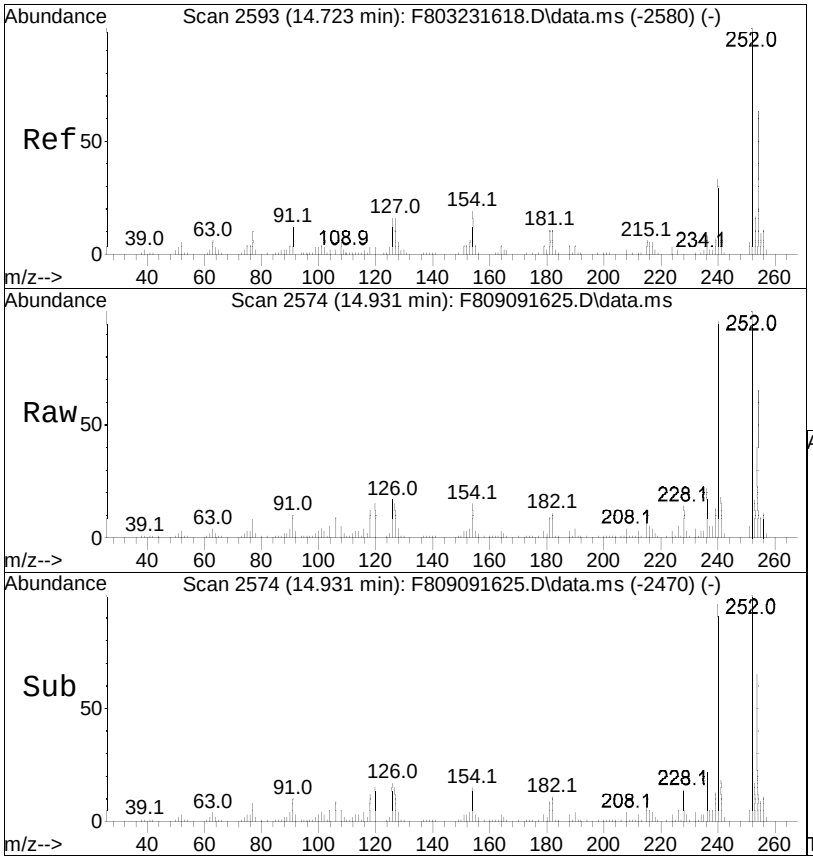


#80
Butylbenzylphthalate
Concen: 11.49 ug/mL
RT: 13.766 min Scan# 2332
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:149 Resp: 970594

Ion	Ratio	Lower	Upper
149	100		
91	59.1	50.8	76.2
206	19.2	15.0	22.4

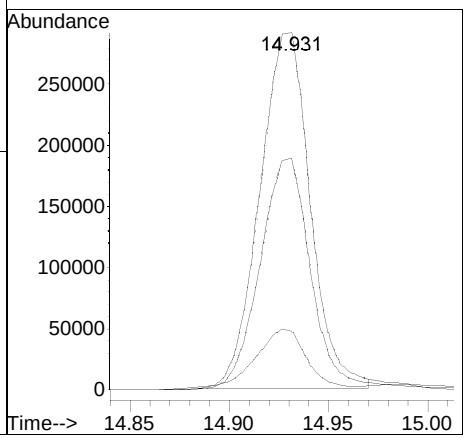


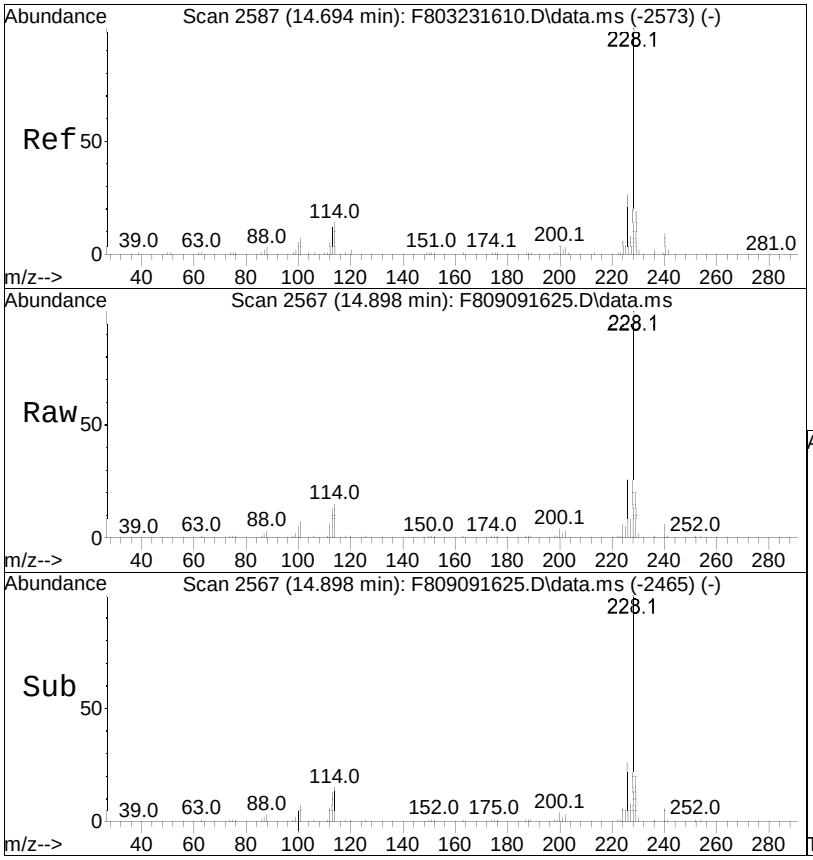


#81
3,3'-Dichlorobenzidine
Concen: 9.08 ug/mL
RT: 14.931 min Scan# 2574
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:252 Resp: 513389

Ion	Ratio	Lower	Upper
252	100		
254	64.2	52.0	78.0
126	18.3	13.6	20.4

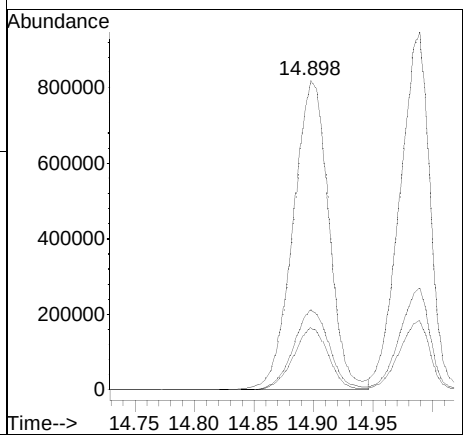


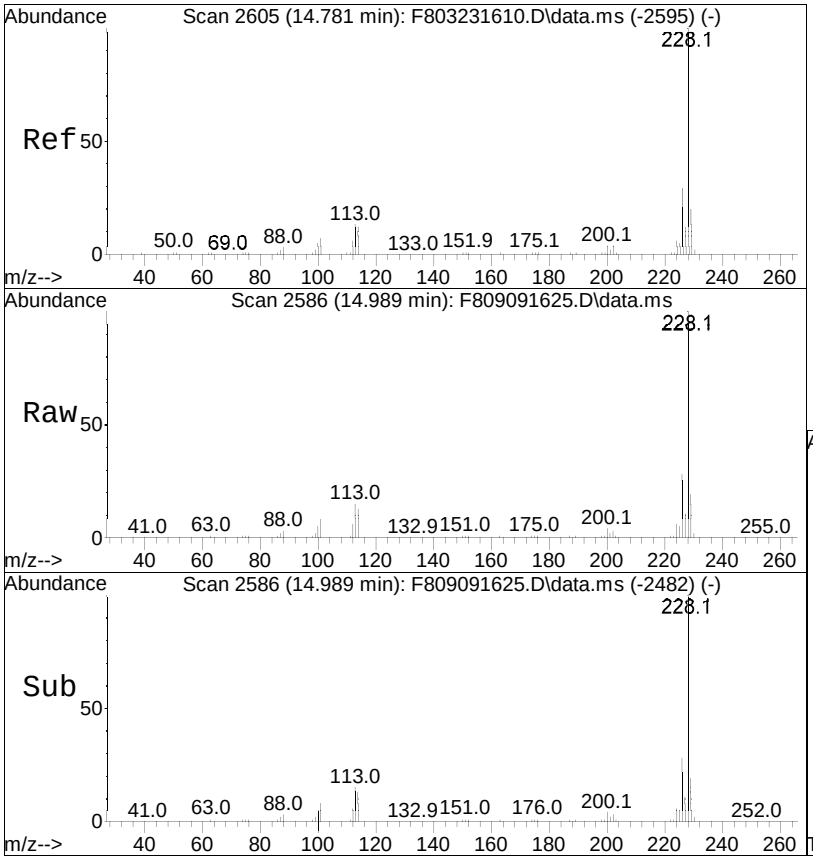


#82
Benz[a]anthracene
Concen: 10.44 ug/mL
RT: 14.898 min Scan# 2567
Delta R.T. -0.010 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:228 Resp: 1704699

Ion	Ratio	Lower	Upper
228	100		
229	19.9	15.9	23.9
226	26.2	21.2	31.8

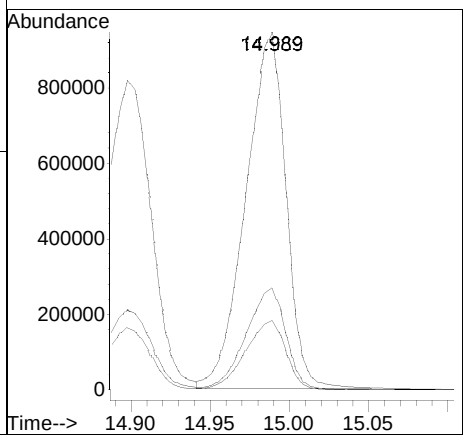


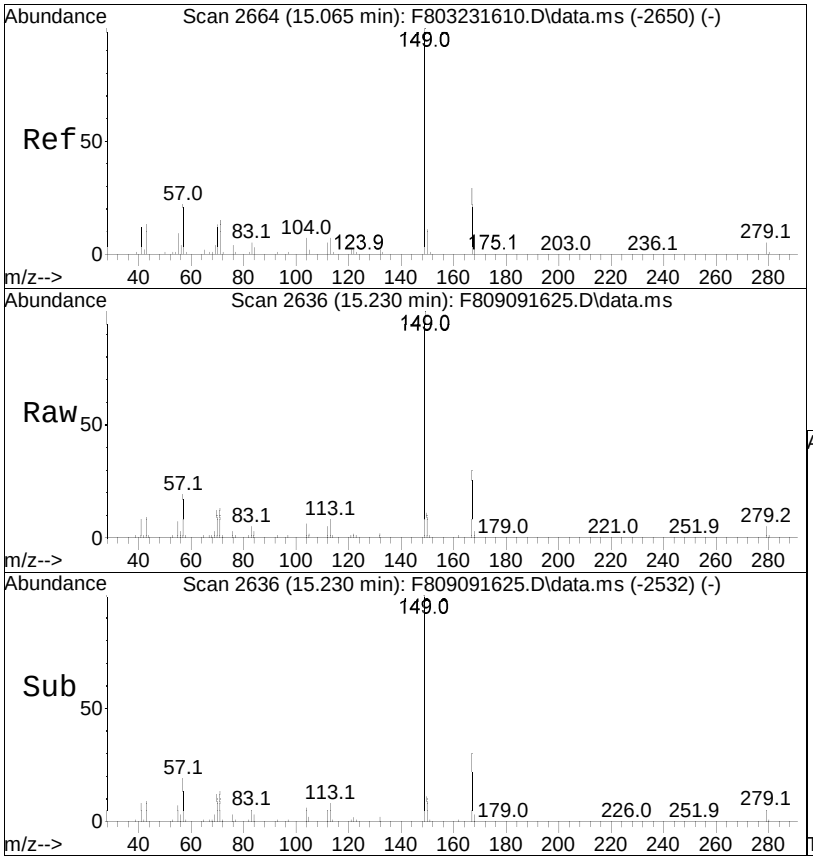


#83
Chrysene
Concen: 10.88 ug/mL M4
RT: 14.989 min Scan# 2586
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:228 Resp: 1648926

Ion	Ratio	Lower	Upper
228	100		
226	27.9	23.7	35.5
229	19.2	15.8	23.8

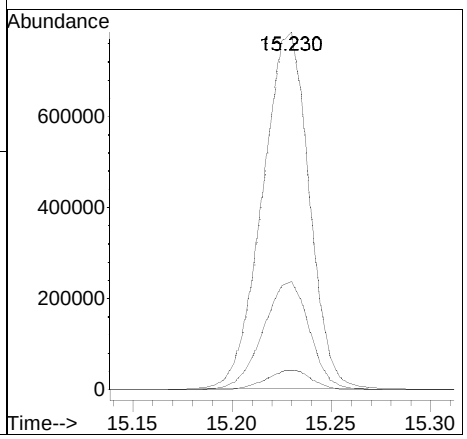


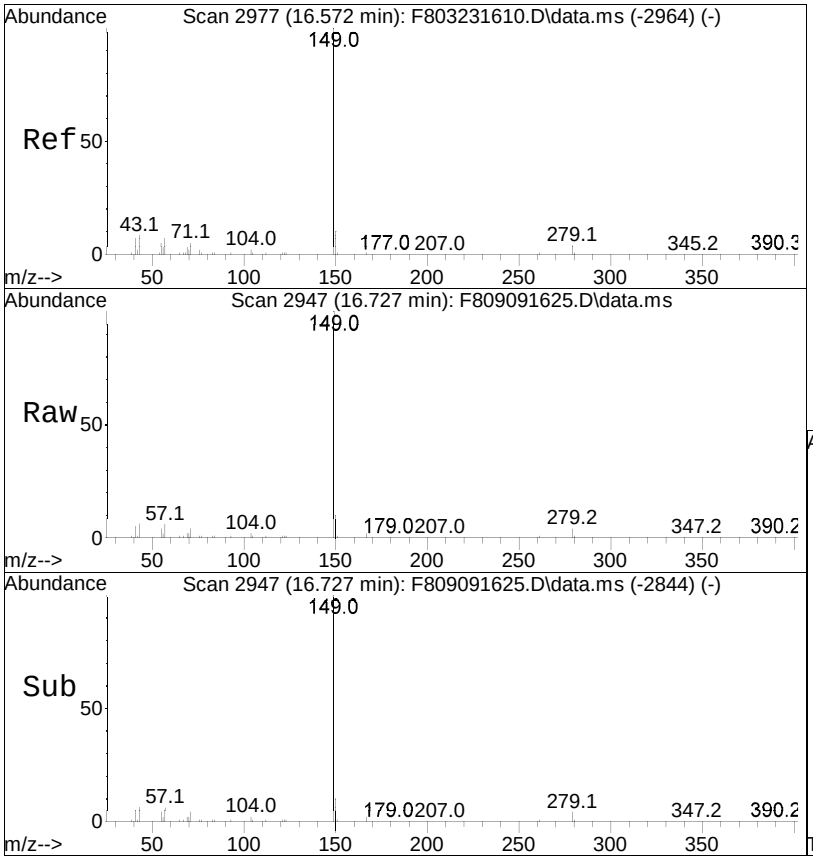


#84
bis(2-Ethylhexyl)phthalate
Concen: 11.36 ug/mL
RT: 15.230 min Scan# 2636
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:149 Resp: 1263215

Ion	Ratio	Lower	Upper
149	100		
167	30.1	23.8	35.6
279	5.5	4.0	6.0

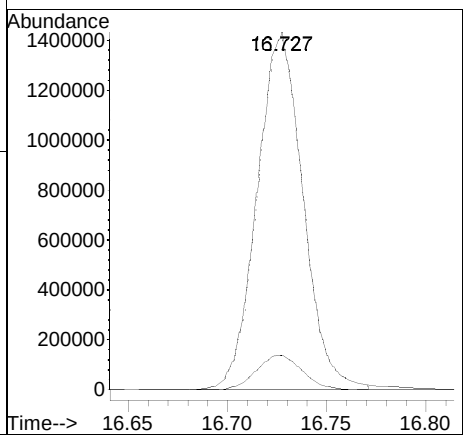


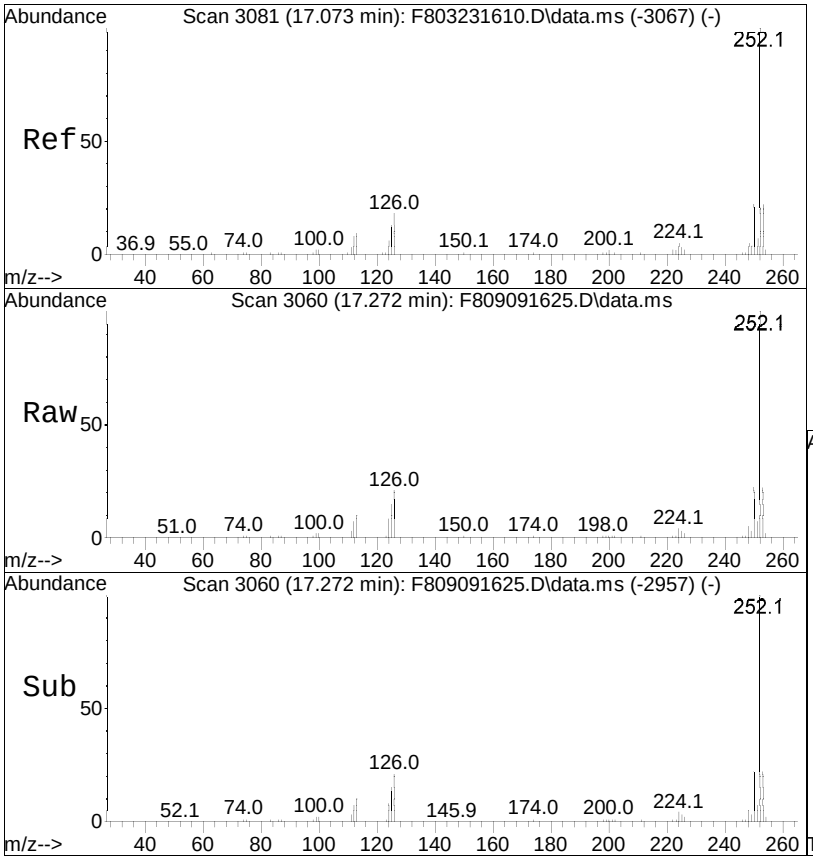


#86
Di-n-octylphthalate
Concen: 11.21 ug/mL
RT: 16.727 min Scan# 2947
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:149 Resp: 2257003

Ion	Ratio	Lower	Upper
149	100		
150	9.8	8.1	12.1

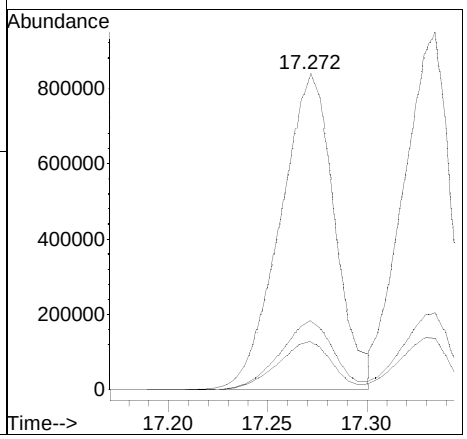


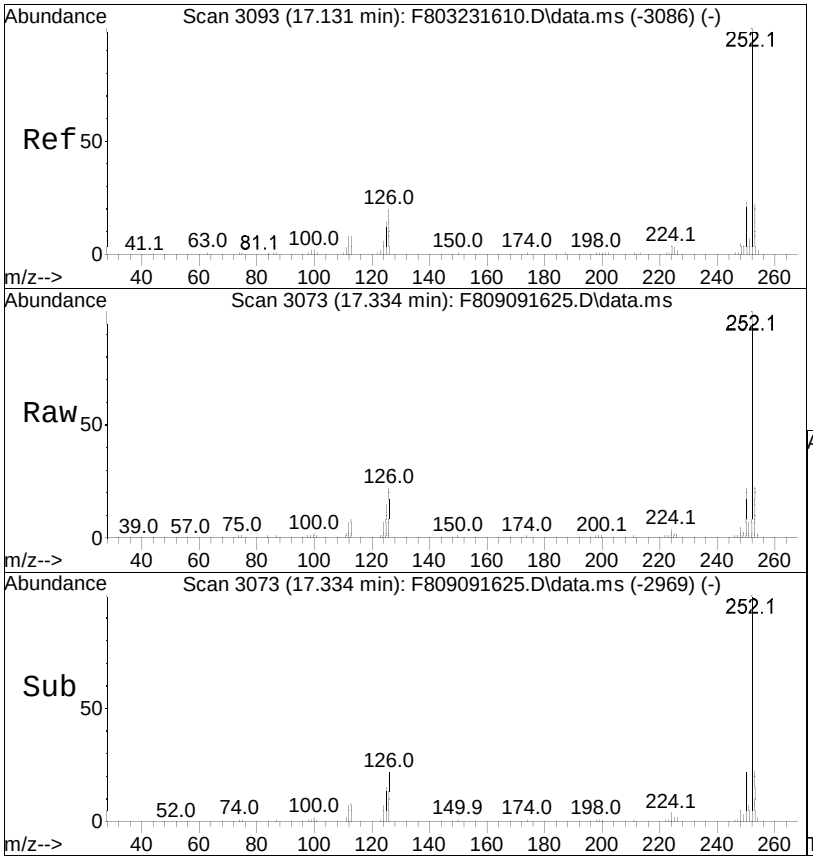


#87
Benzo[b]fluoranthene
Concen: 10.30 ug/mL
RT: 17.272 min Scan# 3060
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:252 Resp: 1593447

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	15.7	13.7	20.5

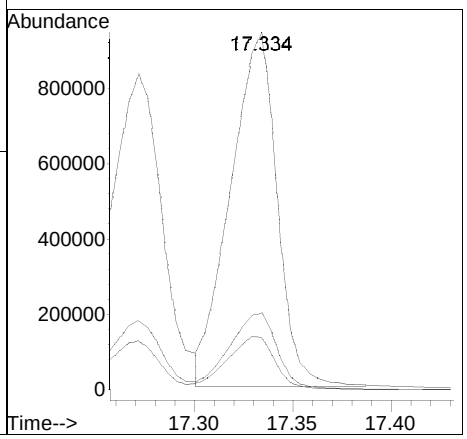


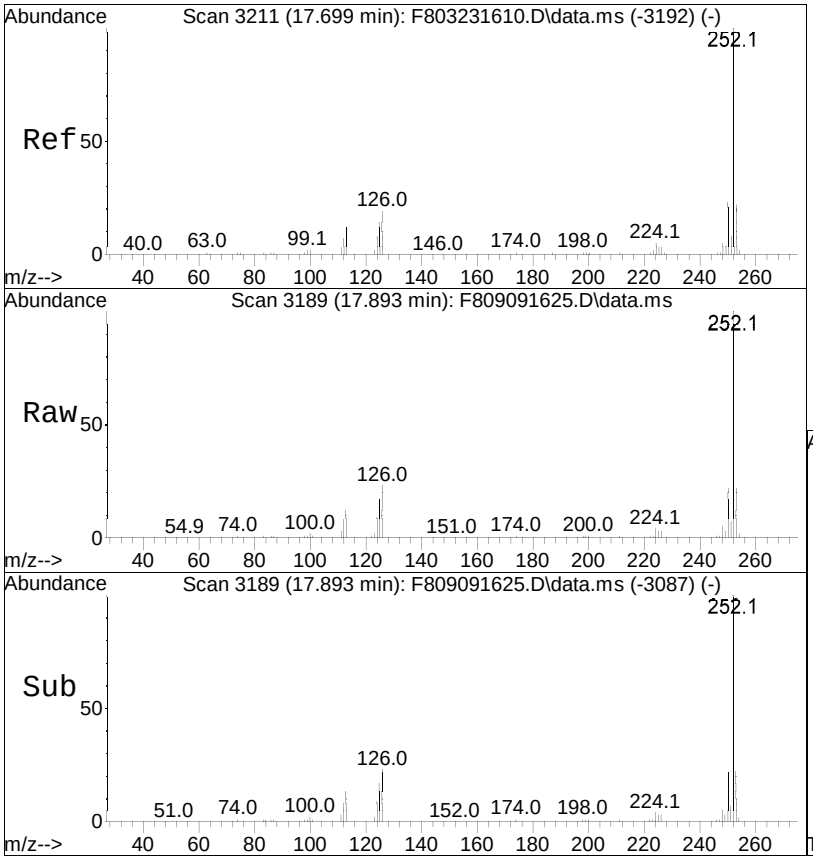


#88
Benzo[k]fluoranthene
Concen: 10.97 ug/mL M4
RT: 17.334 min Scan# 3073
Delta R.T. 0.000 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:252 Resp: 1550853

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.3	25.9
125	14.8	13.3	19.9

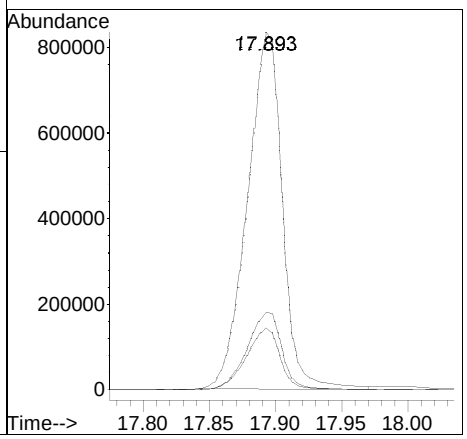


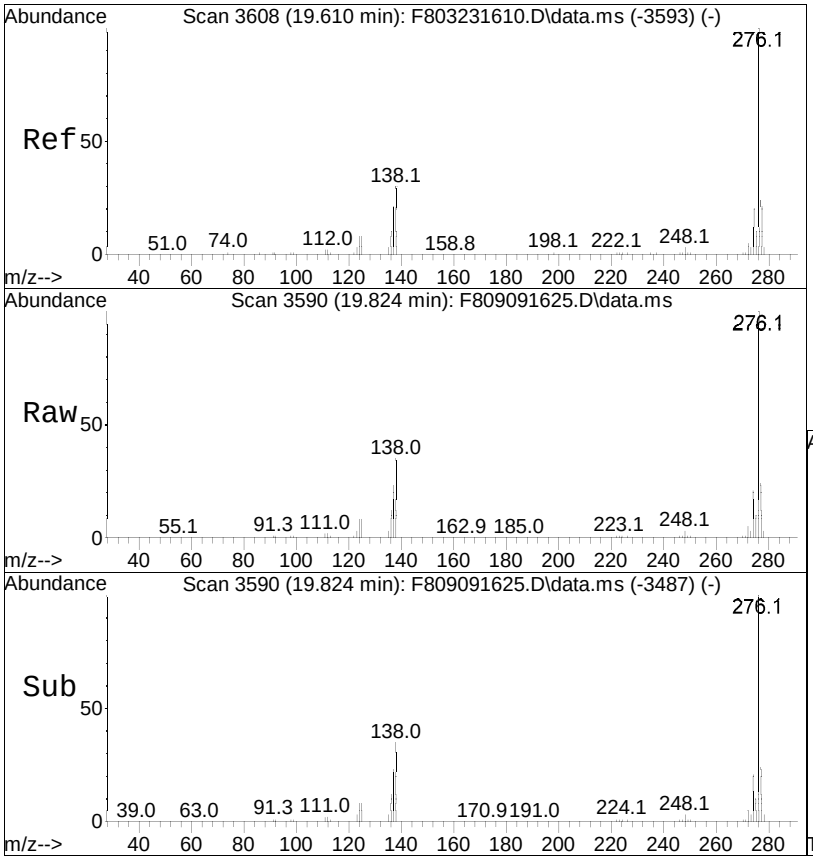


#89
Benzo[a]pyrene
Concen: 10.37 ug/mL
RT: 17.893 min Scan# 3189
Delta R.T. -0.010 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:252 Resp: 1511336

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0
125	17.1	14.3	21.5

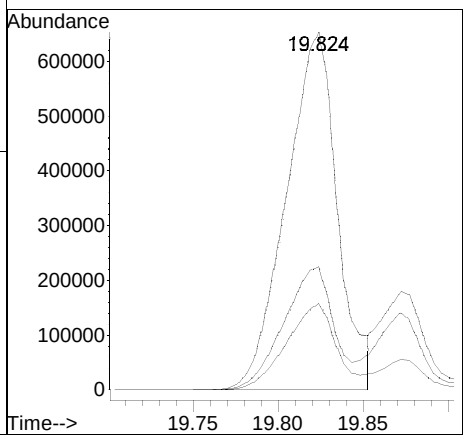


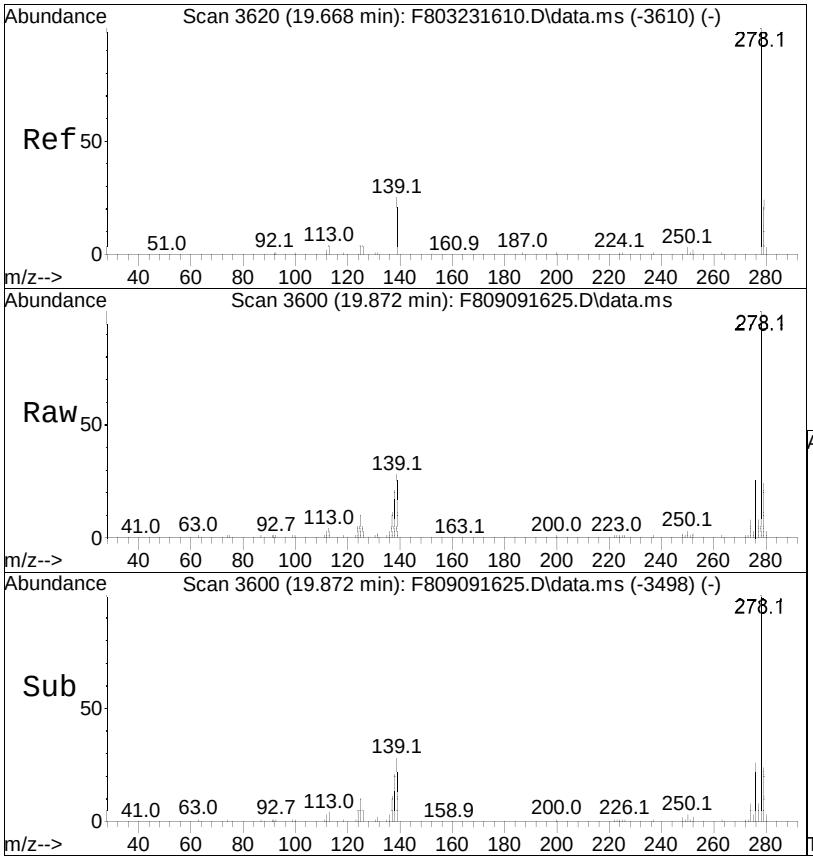


#90
Indeno[1,2,3-cd]pyrene
Concen: 10.70 ug/mL
RT: 19.824 min Scan# 3590
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:276 Resp: 1356398

Ion	Ratio	Lower	Upper
276	100		
138	32.6	28.2	42.2
277	24.1	19.4	29.0

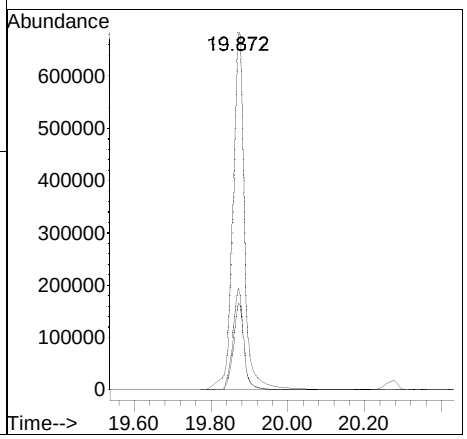


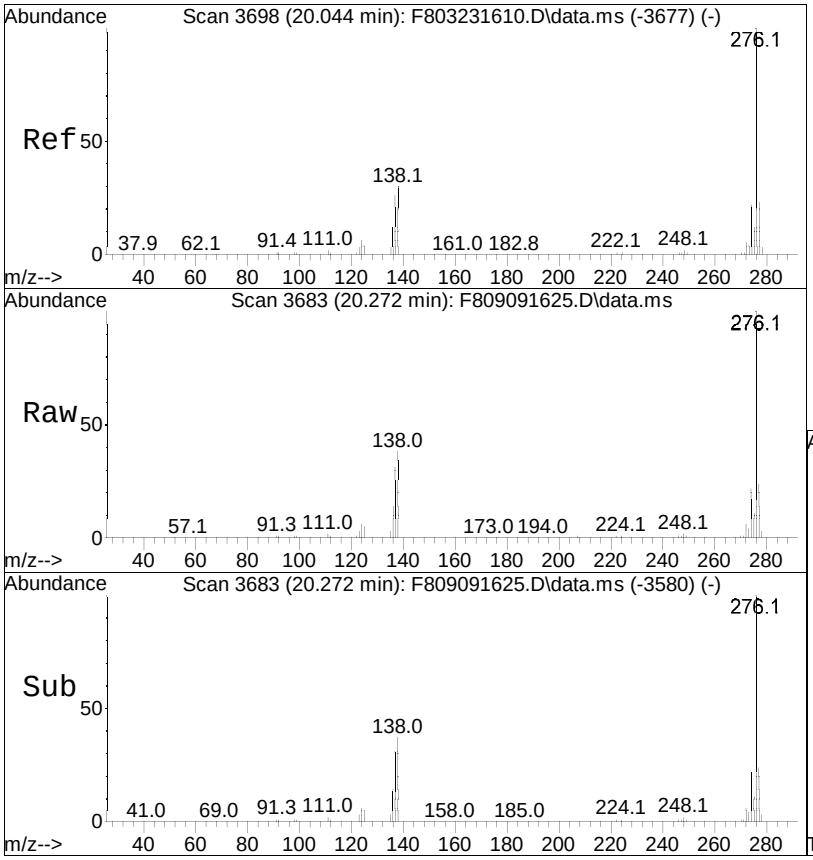


#91
Dibenz[a,h]anthracene
Concen: 11.20 ug/mL
RT: 19.872 min Scan# 3600
Delta R.T. -0.010 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:278 Resp: 1430758

Ion	Ratio	Lower	Upper
278	100		
139	27.1	23.4	35.0
279	23.5	19.4	29.0

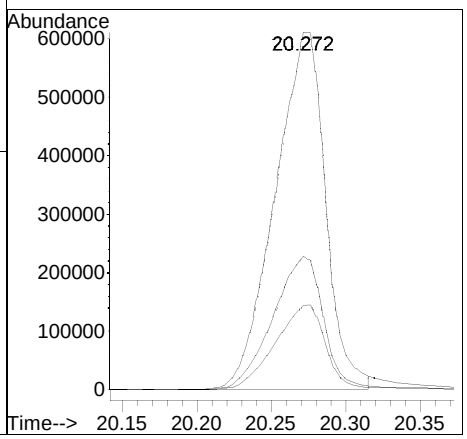




#92
Benzo[g,h,i]perylene
Concen: 10.38 ug/mL
RT: 20.272 min Scan# 3683
Delta R.T. -0.005 min
Lab File: F809091625.D
Acq: 9 Sep 2016 11:48 pm

Tgt Ion:276 Resp: 1422966

Ion	Ratio	Lower	Upper
276	100		
138	37.4	31.4	47.2
277	23.8	19.4	29.0



Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091628.D
Acq On : 10 Sep 2016 1:19 am
Operator : BNA8:ML
Sample : WG929407-8
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 12 15:26:25 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	235662	5.000	ug/mL	0.00
21) Naphthalene-d8	6.042	136	863513	5.000	ug/mL	0.00
38) Acenaphthene-d10	7.747	164	457392	5.000	ug/mL	0.00
61) Phenanthrene-d10	9.596	188	743878	5.000	ug/mL	0.00
76) Chrysene-d12	14.922	240	684567	5.000	ug/mL	0.00
85) Perylene-d12	17.999	264	630350	5.000	ug/mL	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.827	112	423646	7.485	ug/mL	0.00
Spiked Amount 20.000	Range 21 - 100		Recovery = 37.43%			
8) Phenol-d5	4.540	99	617510	9.006	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 94		Recovery = 45.03%			
22) Nitrobenzene-d5	5.373	82	443760	8.807	ug/mL	0.00
Spiked Amount 20.000	Range 35 - 114		Recovery = 44.04%			
43) 2-Fluorobiphenyl	7.078	172	1336082	11.576	ug/mL	0.00
Spiked Amount 20.000	Range 43 - 116		Recovery = 57.88%			
65) 2,4,6-Tribromophenol	8.643	330	221803	20.272	ug/mL	0.00
Spiked Amount 20.000	Range 10 - 123		Recovery = 101.36%			
79) Terphenyl-d14	12.586	244	2169319	20.259	ug/mL	0.00
Spiked Amount 20.000	Range 33 - 141		Recovery = 101.30%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.927	74	126952	4.485	ug/mL#	97
3) Pyridine	2.956	79	205771	3.726	ug/mL	99
5) Benzaldehyde	4.511	77	118966	2.692	ug/ml	99
6) Aniline	4.593	93	346801M4	4.169	ug/ml	
7) bis(2-Chloroethyl)ether	4.636	63	143018	4.051	ug/mL	98
9) Phenol	4.554	94	333815M4	4.751	ug/mL	
10) 2-Chlorophenol	4.694	128	265017	4.161	ug/mL	99
11) 1,3-Dichlorobenzene	4.824	146	278909	3.969	ug/mL	100
12) 1,4-Dichlorobenzene	4.891	146	280129M4	4.007	ug/mL	
13) 1,2-Dichlorobenzene	5.026	146	266504	4.013	ug/mL	100
14) Benzyl alcohol	4.988	108	202282	5.342	ug/mL	100
15) bis(2-chloroisopropyl)eth	5.103	45	209373	4.272	ug/mL#	64
16) 2-Methylphenol	5.079	108	237405M4	4.799	ug/mL	
17) Acetophenone	5.228	105	337911	4.470	ug/ml#	77
18) Hexachloroethane	5.325	117	98031	3.841	ug/mL	93
19) N-Nitroso-di-n-propylamin	5.224	70	184640	5.345	ug/mL	95
20) 4-Methylphenol	5.219	108	273982	5.126	ug/mL	97
23) Nitrobenzene	5.387	77	226861	4.529	ug/mL	95

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091628.D
Acq On : 10 Sep 2016 1:19 am
Operator : BNA8:ML
Sample : WG929407-8
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 12 15:26:25 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Isophorone	5.604	82	507729	6.300	ug/mL	97
25) 2-Nitrophenol	5.681	139	162890	4.974	ug/mL#	88
26) 2,4-Dimethylphenol	5.710	107	210851	4.049	ug/mL	96
27) Benzoic acid	5.864	105	720162M4	28.824	ug/mL	
28) bis(2-Chloroethoxy)methan	5.797	93	322291	5.520	ug/mL#	98
29) 2,4-Dichlorophenol	5.903	162	274266	5.757	ug/mL	99
30) 1,2,4-Trichlorobenzene	5.984	180	225684	4.363	ug/mL	100
31) Naphthalene	6.062	128	759309	4.576	ug/mL	99
32) 2-Chloroaniline	5.647	127	420382	5.024	ug/ml	99
33) 4-Chloroaniline	6.110	127	423359M4	5.926	ug/mL	
34) Hexachlorobutadiene	6.167	225	107406	4.085	ug/mL	99
35) Caprolactam	6.461	113	164334	10.653	ug/ml	98
36) 4-Chloro-3-methylphenol	6.577	107	344181	7.500	ug/mL	99
37) 2-Methylnaphthalene	6.721	142	609314	5.413	ug/mL	99
39) 1,2,4,5-Tetrachlorobenzen	6.880	216	267466	5.612	ug/mL	100
40) Hexachlorocyclopentadiene	6.870	237	71176	3.605	ug/mL	96
41) 2,4,6-Trichlorophenol	6.996	196	243075M6	7.078	ug/mL	
42) 2,4,5-Trichlorophenol	7.034	196	266876M4	8.745	ug/mL	
44) Biphenyl	7.174	154	774604	5.868	ug/ml	99
45) 2-Chloronaphthalene	7.198	162	626994	6.071	ug/mL	99
46) 2-Nitroaniline	7.299	65	206467	8.647	ug/mL	100
47) Acenaphthylene	7.607	152	1176551	6.890	ug/mL	99
48) Dimethylphthalate	7.468	163	987495	8.888	ug/mL	100
49) 2,6-Dinitrotoluene	7.535	165	239469	9.279	ug/mL	91
50) Acenaphthene	7.781	153	727929	7.006	ug/mL	97
51) 3-Nitroaniline	7.708	138	271792	9.204	ug/mL	98
52) 2,4-Dinitrophenol	7.814	184	109681	9.166	ug/mL#	83
53) Dibenzofuran	7.964	168	1037897	7.651	ug/mL	98
54) 2,3,4,6-Tetrachlorophenol	8.098	232	212252	10.314	ug/mL	96
55) 2,4-Dinitrotoluene	7.954	165	341436	10.314	ug/mL	92
56) 4-Nitrophenol	7.891	109	121913	10.900	ug/mL	96
57) Fluorene	8.354	166	924531	8.274	ug/mL	100
58) 4-Chlorophenyl-phenylethe	8.349	204	410791	8.212	ug/mL	99
59) Diethylphthalate	8.214	149	1105842	9.739	ug/mL	100
60) 4-Nitroaniline	8.387	138	308681	10.121	ug/mL	98
62) 4,6-Dinitro-2-methylpheno	8.411	198	176616	10.294	ug/mL	93
63) Azobenzene	8.537	182	270533	8.964	ug/mL	78
64) n-Nitrosodiphenylamine	8.493	169	786960	9.955	ug/mL	100
66) 4-Bromophenyl-phenylether	8.960	248	253065	9.166	ug/mL	99
67) Hexachlorobenzene	9.037	284	267266	9.260	ug/mL	98
68) Atrazine	9.196	200	268851	8.816	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091628.D
Acq On : 10 Sep 2016 1:19 am
Operator : BNA8:ML
Sample : WG929407-8
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 12 15:26:25 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
69) Pentachlorophenol	9.321	266	172486	10.691 ug/mL	98
70) Pentachloronitrobenzene	9.331	237	121160	10.538 ug/ml	91
71) Phenanthrene	9.634	178	1510456	9.341 ug/mL	99
72) Anthracene	9.712	178	1527566M6	9.562 ug/mL	
73) Carbazole	9.976	167	1614688	10.525 ug/mL	99
74) Di-n-butylphthalate	10.598	149	2003375	10.796 ug/mL	100
75) Fluoranthene	11.724	202	1724567	10.315 ug/mL	96
77) Benzidine	12.057	184	798905	7.068 ug/mL	99
78) Pyrene	12.182	202	1777026	10.400 ug/mL	97
80) Butylbenzylphthalate	13.766	149	946473	11.290 ug/mL	95
81) 3,3'-Dichlorobenzidine	14.931	252	522066M4	9.311 ug/mL	
82) Benz[a]anthracene	14.902	228	1666302M6	10.287 ug/mL	
83) Chrysene	14.989	228	1563917M4	10.399 ug/mL	
84) bis(2-Ethylhexyl)phthalat	15.230	149	1261796	11.439 ug/mL	99
86) Di-n-octylphthalate	16.727	149	2248725M4	11.230 ug/mL	
87) Benzo[b]fluoranthene	17.272	252	1576822	10.245 ug/mL	99
88) Benzo[k]fluoranthene	17.329	252	1476043M4	10.491 ug/mL	
89) Benzo[a]pyrene	17.893	252	1476453	10.183 ug/mL	98
90) Indeno[1,2,3-cd]pyrene	19.824	276	1304998	10.350 ug/mL	99
91) Dibenz[a,h]anthracene	19.877	278	1374410	10.818 ug/mL	97
92) Benzo[g,h,i]perylene	20.271	276	1379448	10.116 ug/mL	98

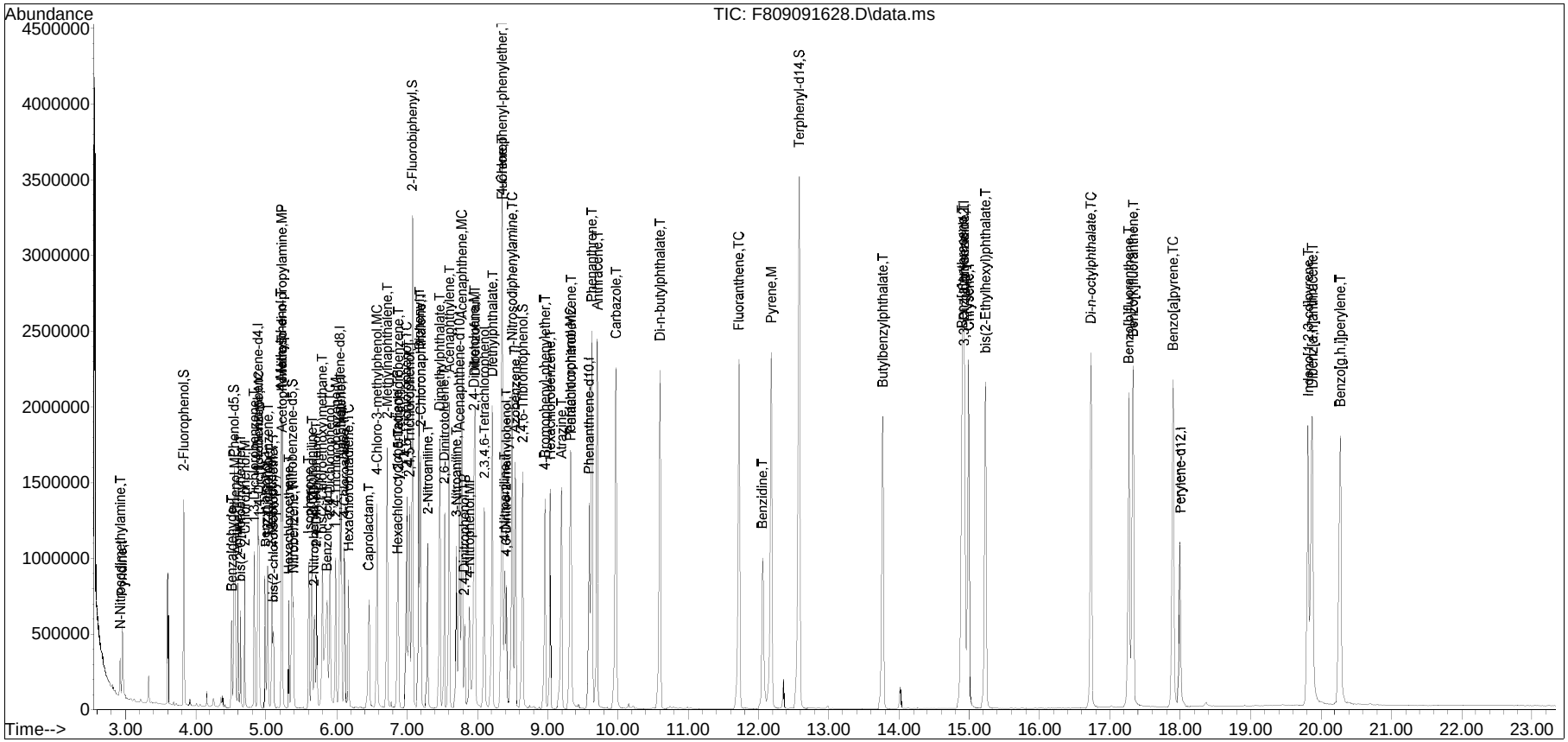
(#) = qualifier out of range (m) = manual integration (+) = signals summed

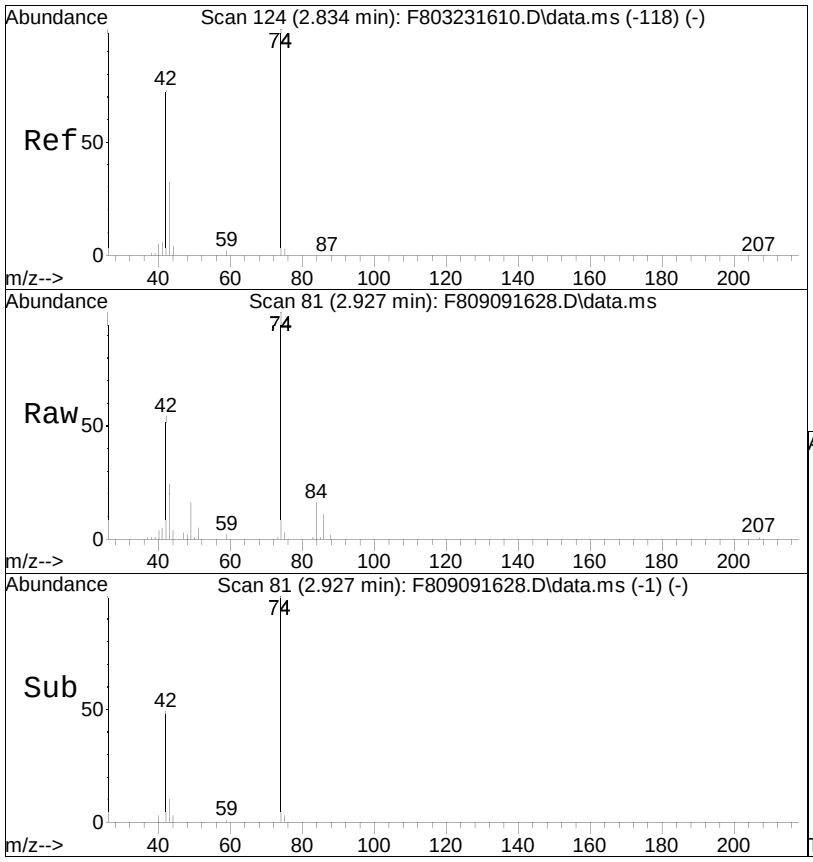
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA8\2016\SEP\SEP09\
Data File : F809091628.D
Acq On : 10 Sep 2016 1:19 am
Operator : BNA8:ML
Sample : WG929407-8
Misc : WG930519,WG929407,ICAL12858
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 12 15:26:25 2016
Quant Method : O:\Organics\DATA\BNA8\2016\SEP\SEP09\SV0908BNA8.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 12 13:18:51 2016
Response via : Initial Calibration

Sub List : Default - All compounds listed

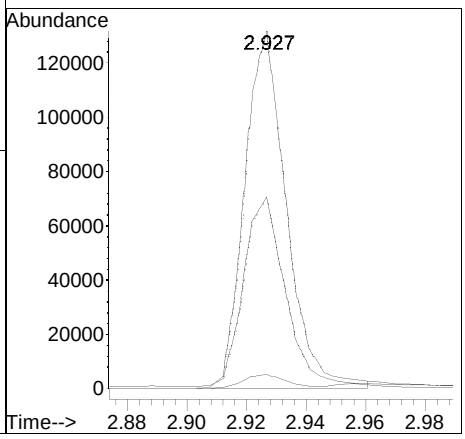


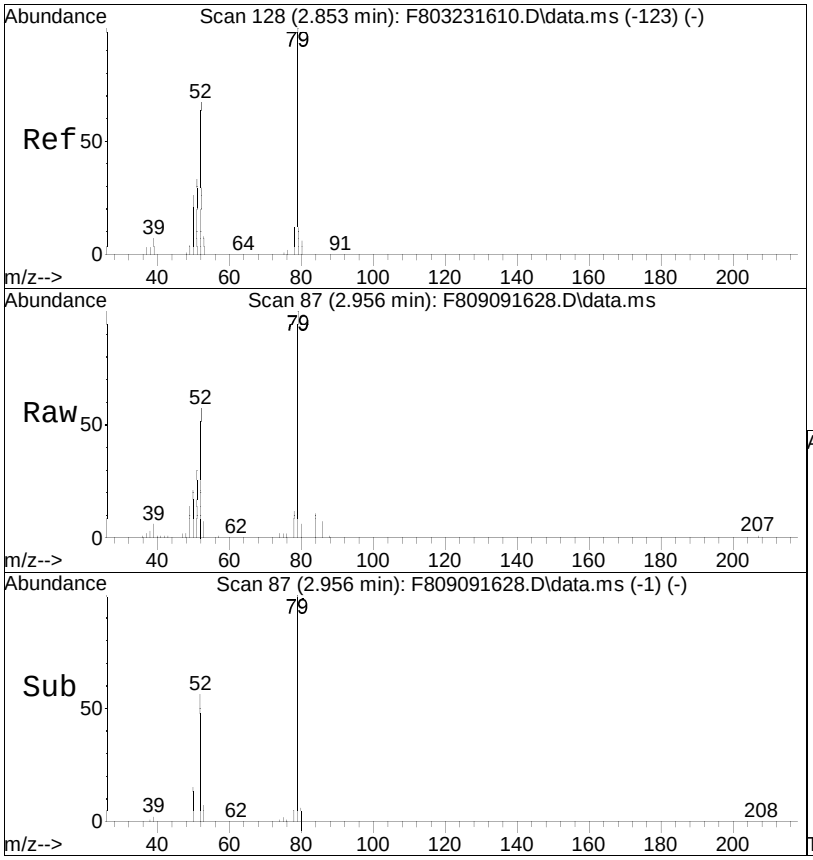


#2
N-Nitrosodimethylamine
Concen: 4.49 ug/mL
RT: 2.927 min Scan# 81
Delta R.T. -0.019 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion: 74 Resp: 126952

Ion	Ratio	Lower	Upper
74	100		
42	52.7	43.8	65.6
40	4.1	4.2	6.4#

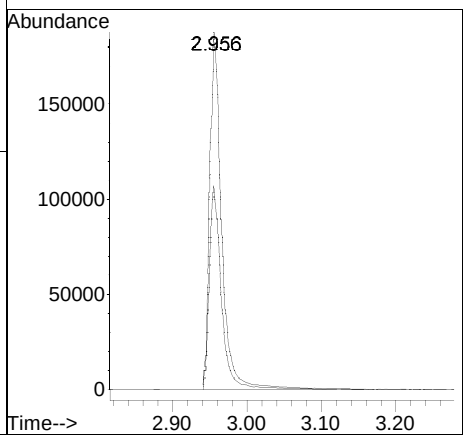


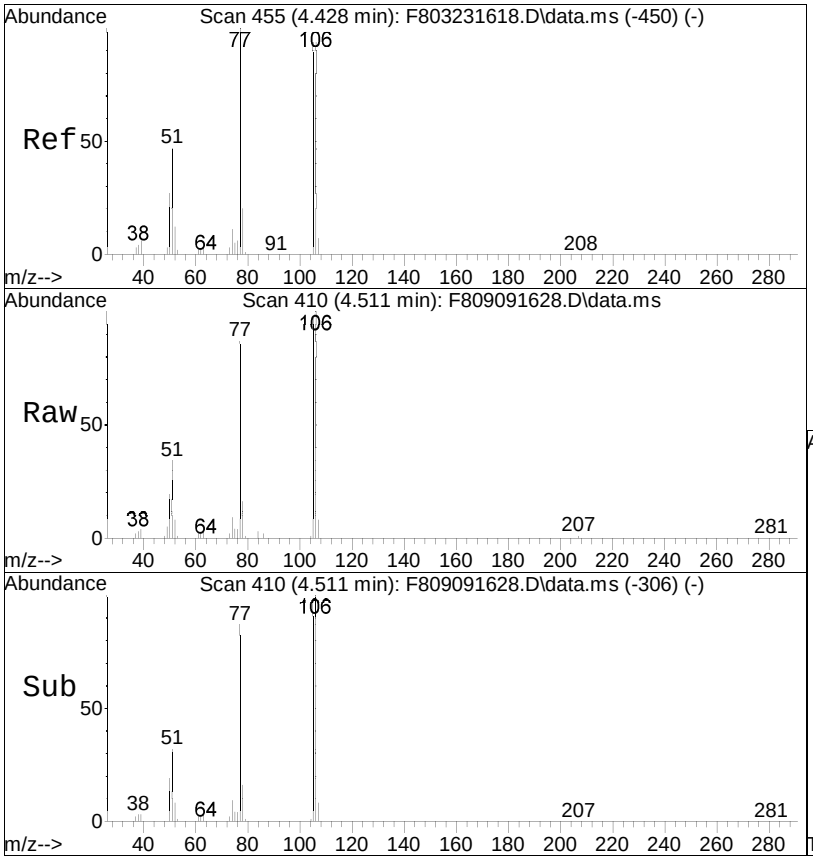


#3
Pyridine
Concen: 3.73 ug/mL
RT: 2.956 min Scan# 87
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion: 79 Resp: 205771

Ion	Ratio	Lower	Upper
79	100		
52	57.6	46.6	69.8

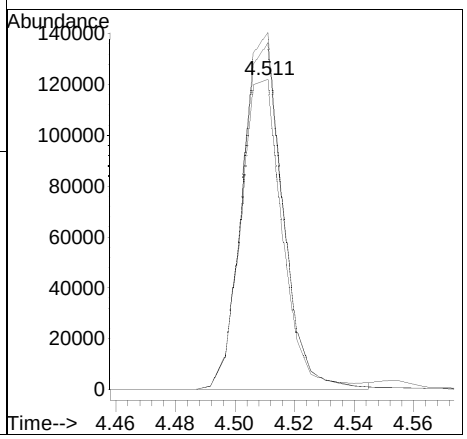


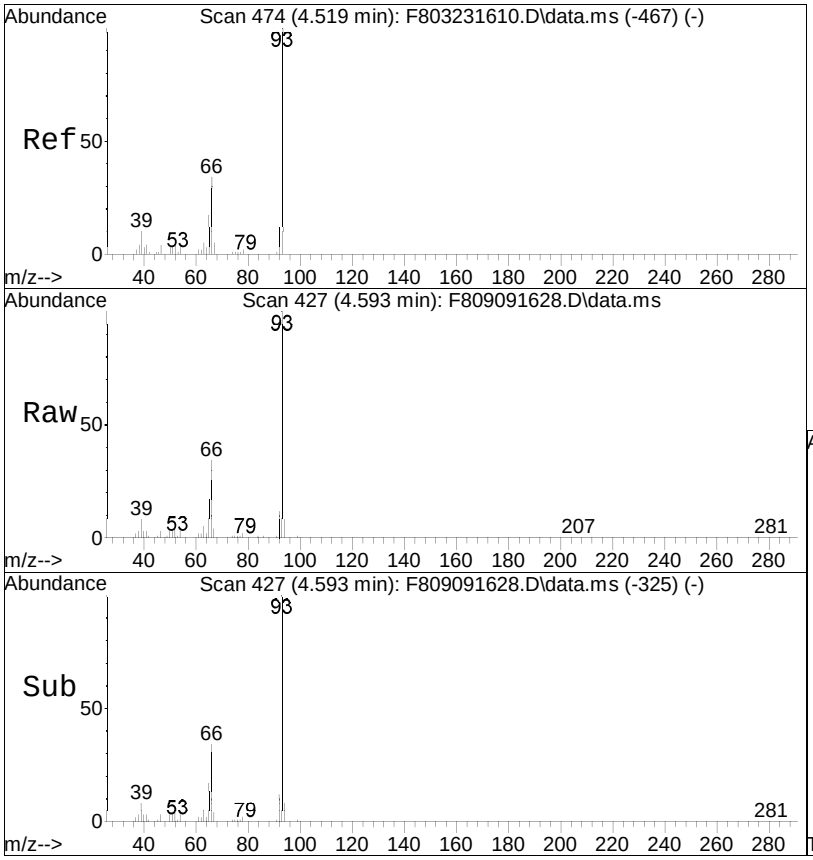


#5
Benzaldehyde
Concen: 2.69 ug/ml
RT: 4.511 min Scan# 410
Delta R.T. -0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion: 77 Resp: 118966

Ion	Ratio	Lower	Upper
77	100		
105	108.8	88.1	132.1
106	111.5	89.8	134.8

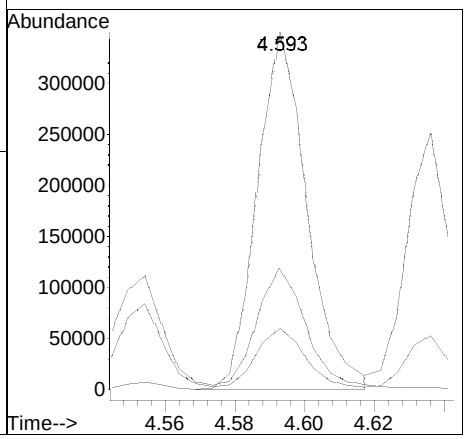


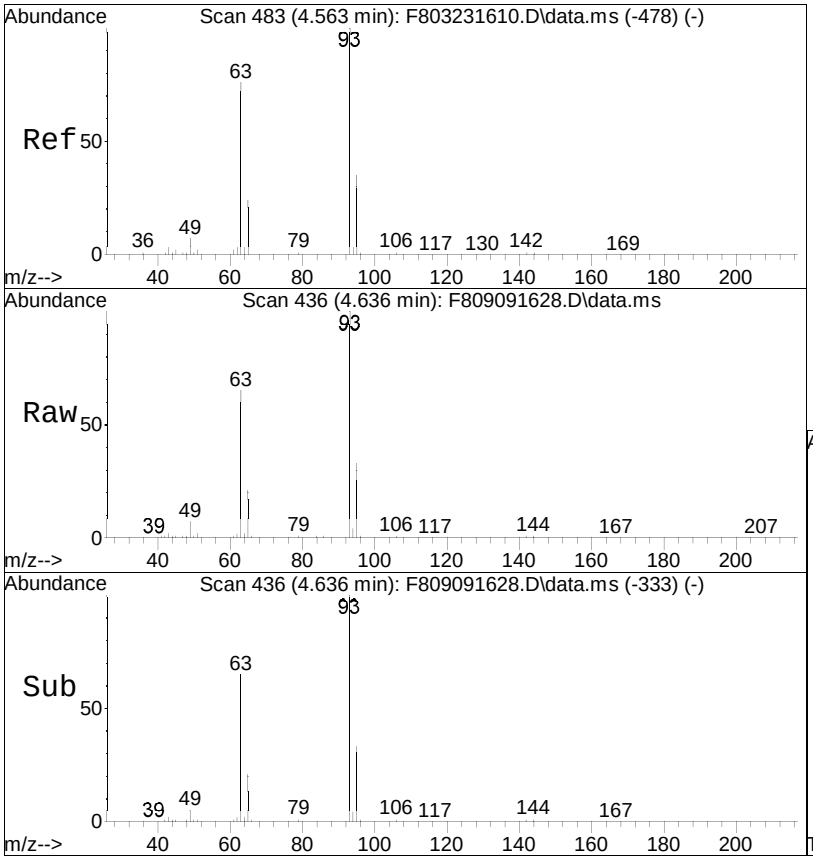


#6
Aniline
Concen: 4.17 ug/ml M4
RT: 4.593 min Scan# 427
Delta R.T. -0.010 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion: 93 Resp: 346801

Ion	Ratio	Lower	Upper
93	100		
66	32.0	26.7	40.1
65	17.4	14.2	21.4

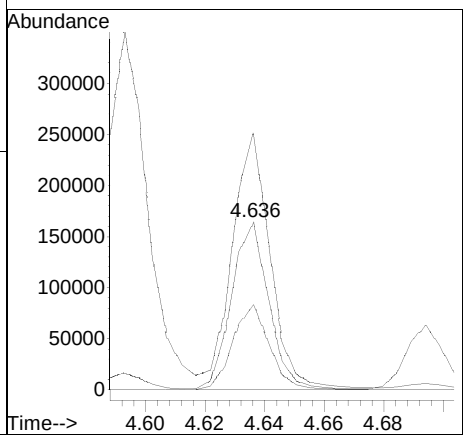


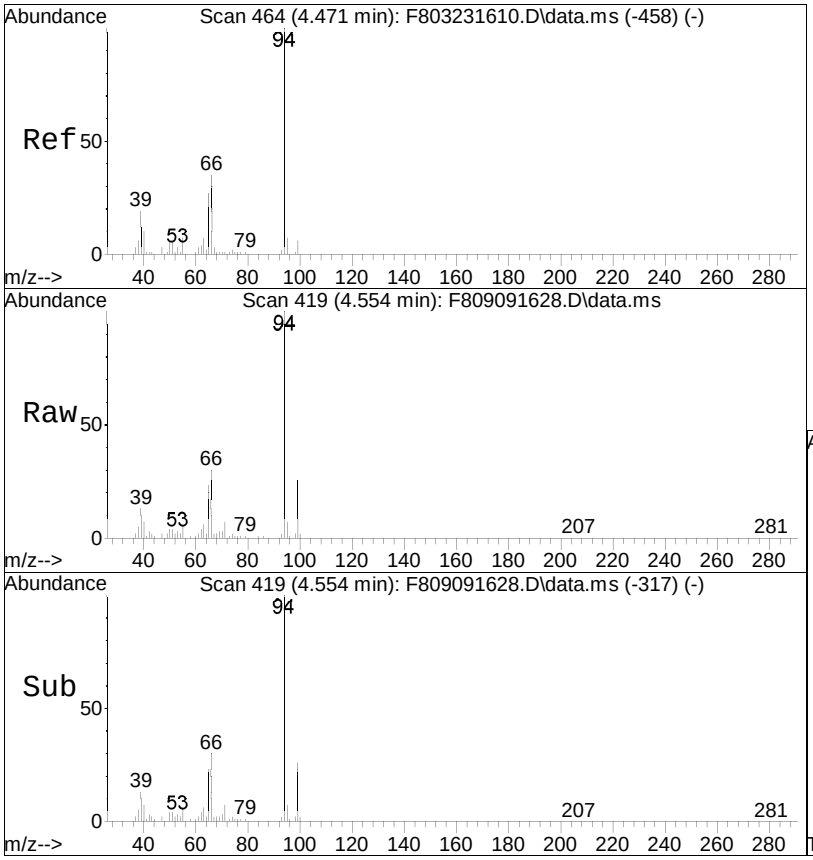


#7
bis(2-Chloroethyl)ether
Concen: 4.05 ug/mL
RT: 4.636 min Scan# 436
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion: 63 Resp: 143018

Ion	Ratio	Lower	Upper
63	100		
93	156.5	123.0	184.4
95	49.1	41.1	61.7

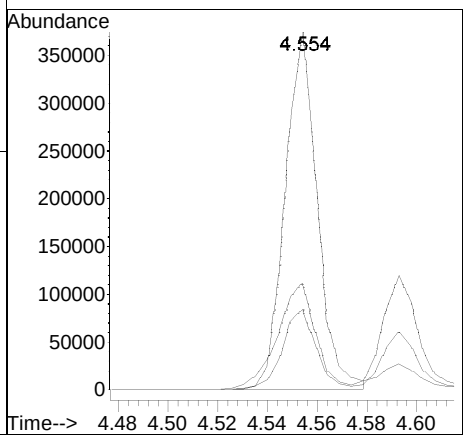


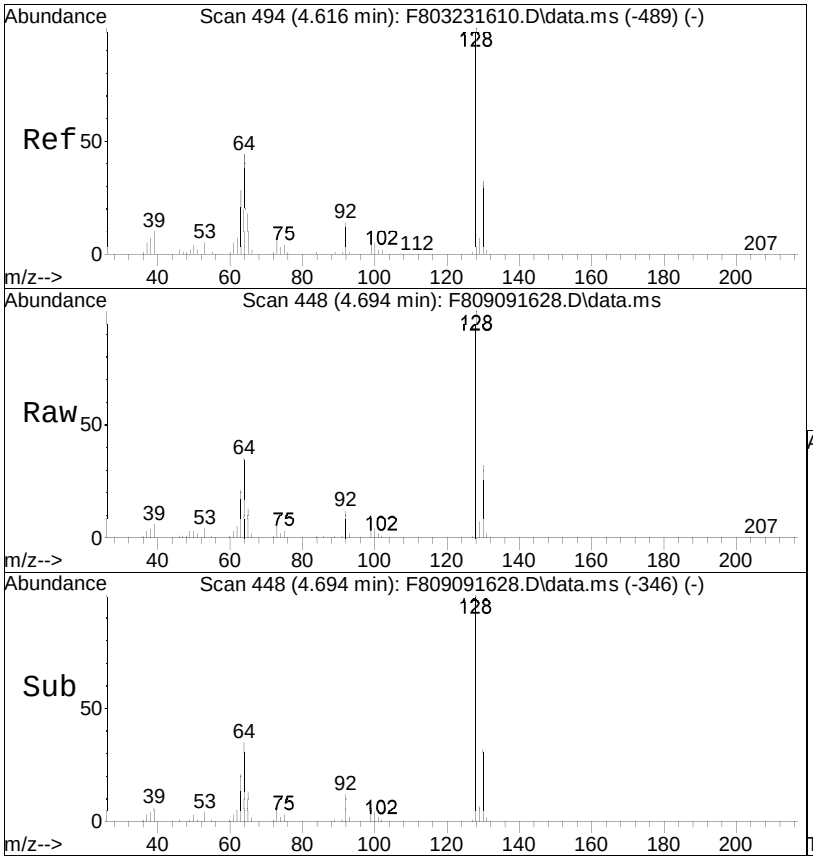


#9
Phenol
Concen: 4.75 ug/mL M4
RT: 4.554 min Scan# 419
Delta R.T. -0.010 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion: 94 Resp: 333815

Ion	Ratio	Lower	Upper
94	100		
66	35.4	21.7	32.5#
65	23.5	17.6	26.4

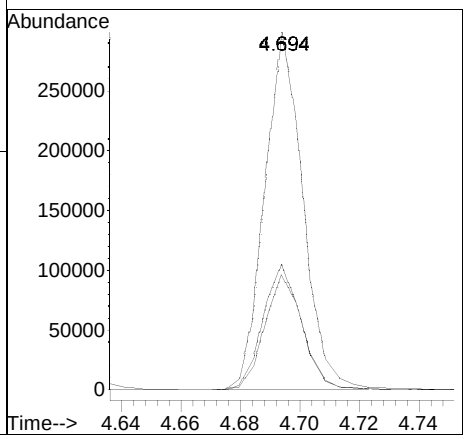


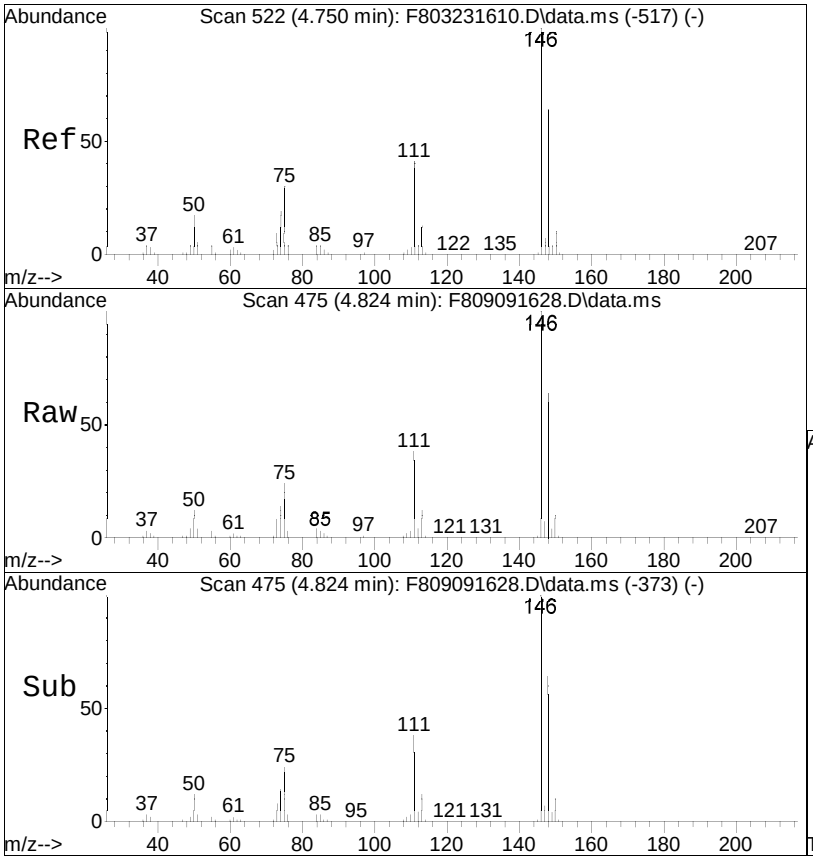


#10
2-Chlorophenol
Concen: 4.16 ug/mL
RT: 4.694 min Scan# 448
Delta R.T. -0.010 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:128 Resp: 265017

Ion	Ratio	Lower	Upper
128	100		
64	35.4	27.6	41.4
130	32.3	26.2	39.4

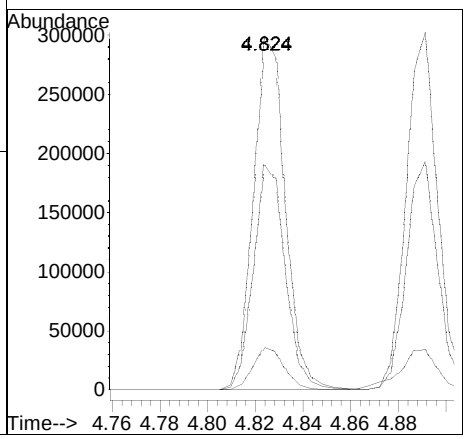


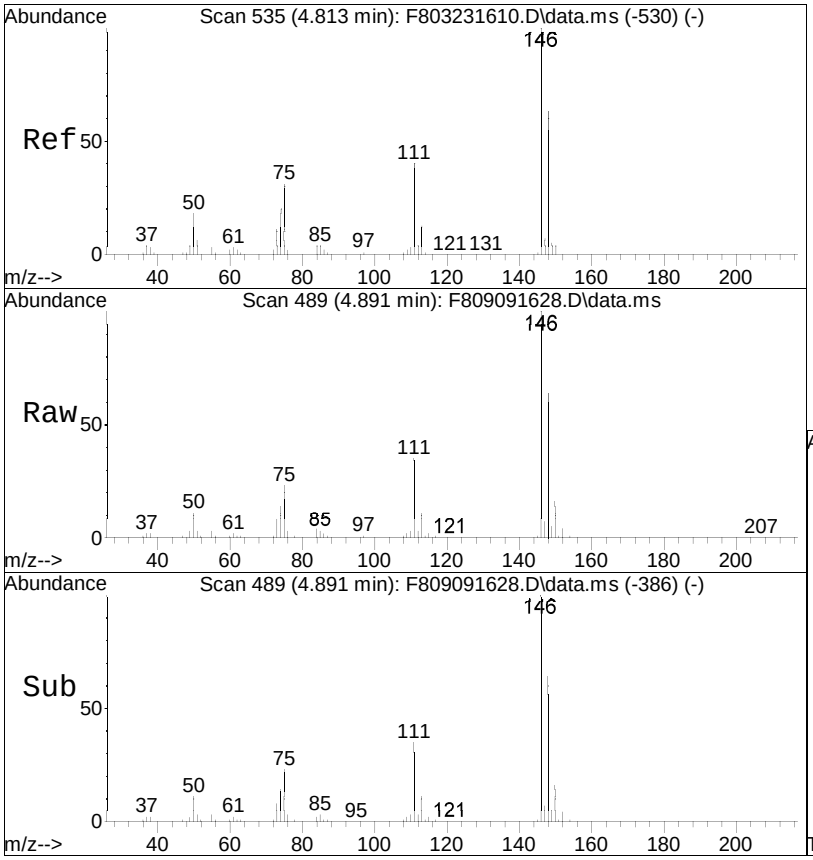


#11
1,3-Dichlorobenzene
Concen: 3.97 ug/mL
RT: 4.824 min Scan# 475
Delta R.T. -0.010 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:146 Resp: 278909

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.0	76.6
113	11.8	9.7	14.5

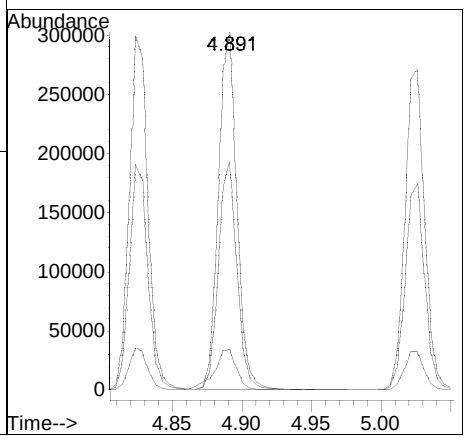


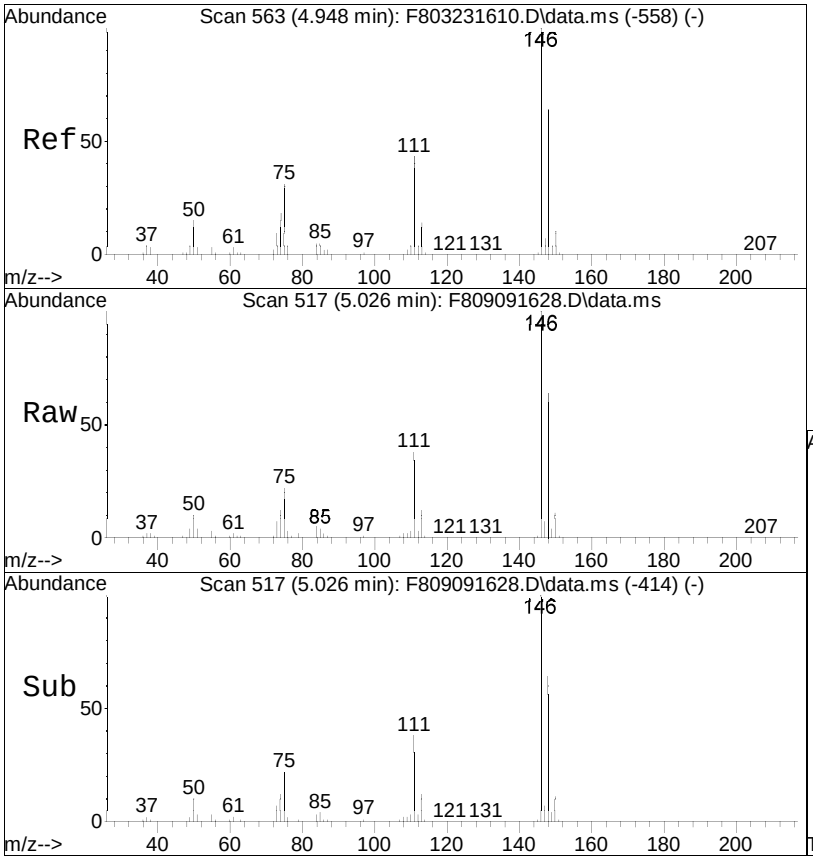


#12
1,4-Dichlorobenzene
Concen: 4.01 ug/mL M4
RT: 4.891 min Scan# 489
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:146 Resp: 280129

Ion	Ratio	Lower	Upper
146	100		
148	63.1	51.2	76.8
113	11.8	9.1	13.7

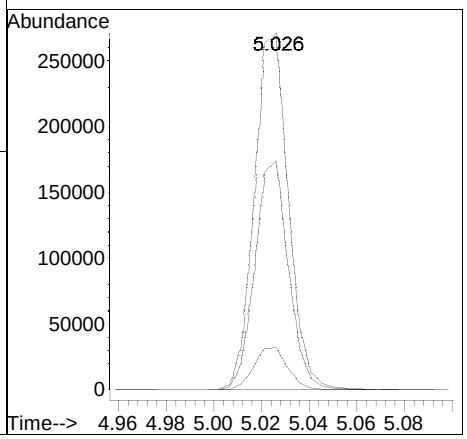


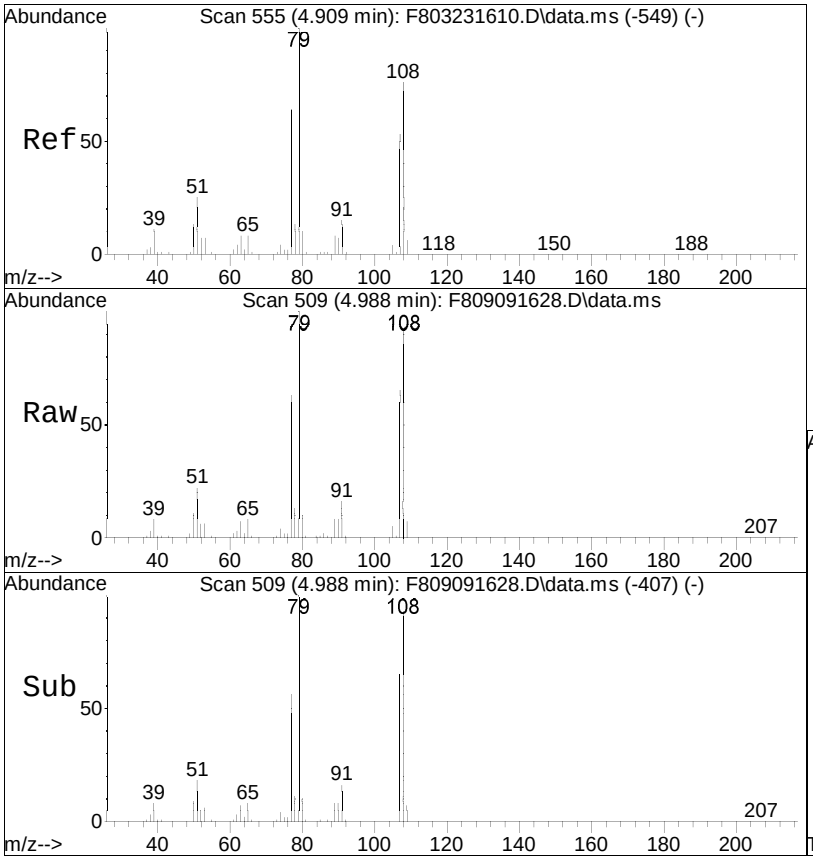


#13
1,2-Dichlorobenzene
Concen: 4.01 ug/mL
RT: 5.026 min Scan# 517
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:146 Resp: 266504

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.0	76.6
113	12.1	10.0	15.0

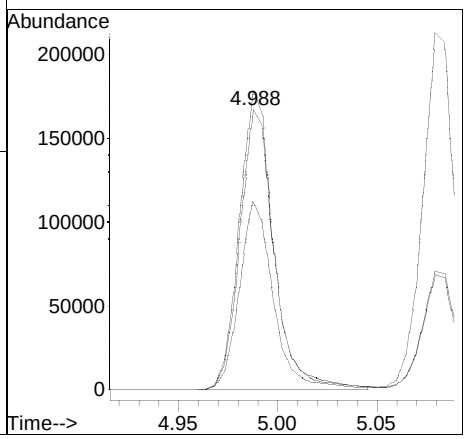


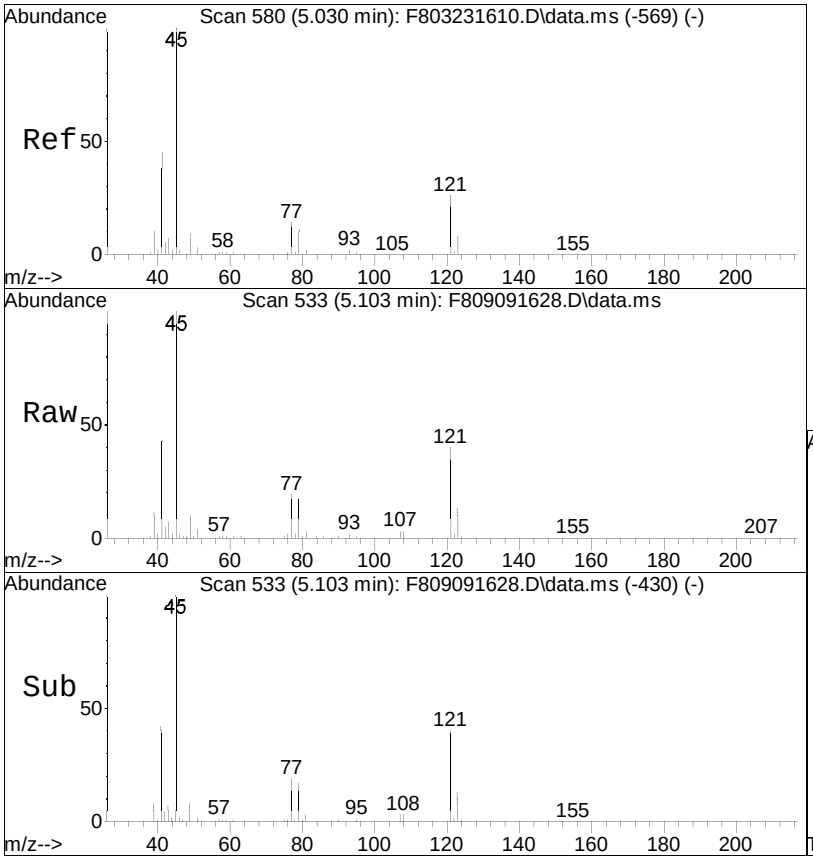


#14
Benzyl alcohol
Concen: 5.34 ug/mL
RT: 4.988 min Scan# 509
Delta R.T. -0.010 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:108 Resp: 202282

Ion	Ratio	Lower	Upper
108	100		
79	105.9	84.5	126.7
77	66.5	52.9	79.3

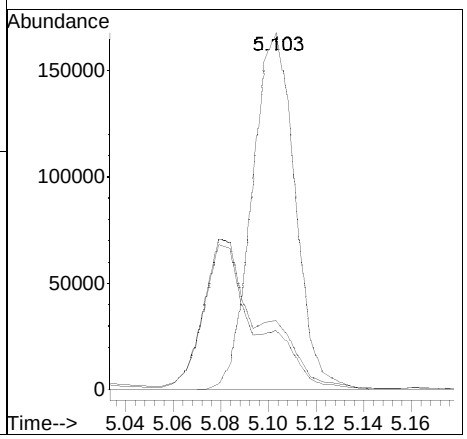


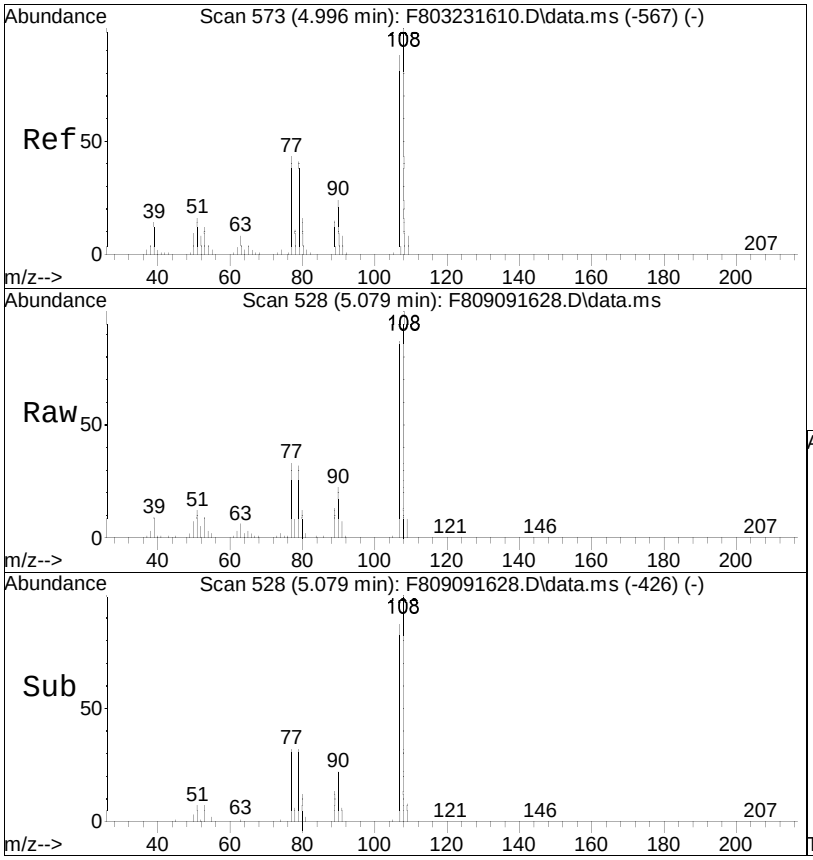


#15
bis(2-chloroisopropyl)ether
Concen: 4.27 ug/mL
RT: 5.103 min Scan# 533
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion: 45 Resp: 209373

Ion	Ratio	Lower	Upper
45	100		
77	0.0	13.2	19.8#
79	0.0	10.9	16.3#

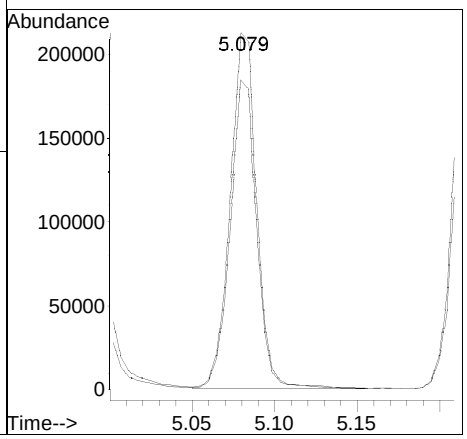


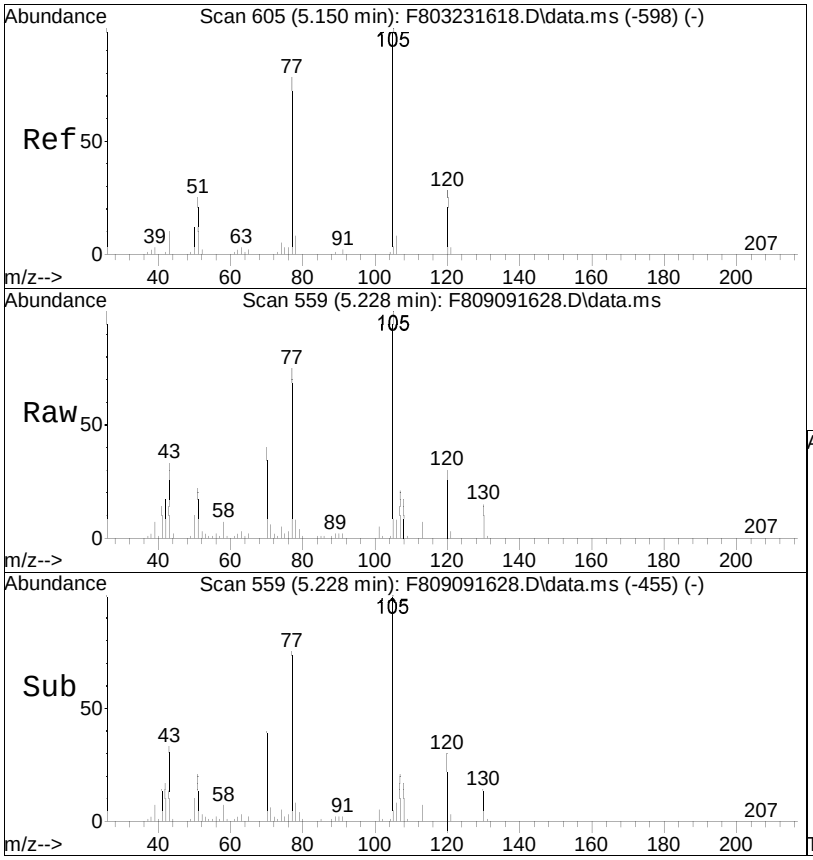


#16
2-Methylphenol
Concen: 4.80 ug/mL M4
RT: 5.079 min Scan# 528
Delta R.T. -0.010 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:108 Resp: 237405

Ion	Ratio	Lower	Upper
108	100		
107	85.2	68.1	102.1

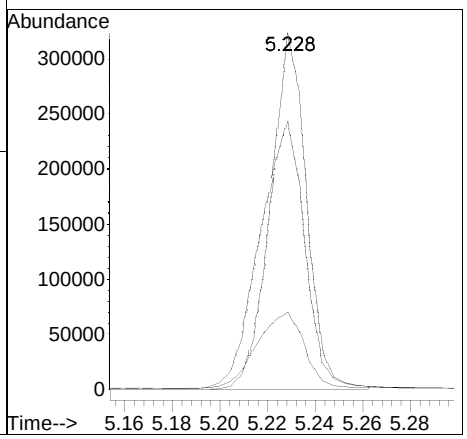


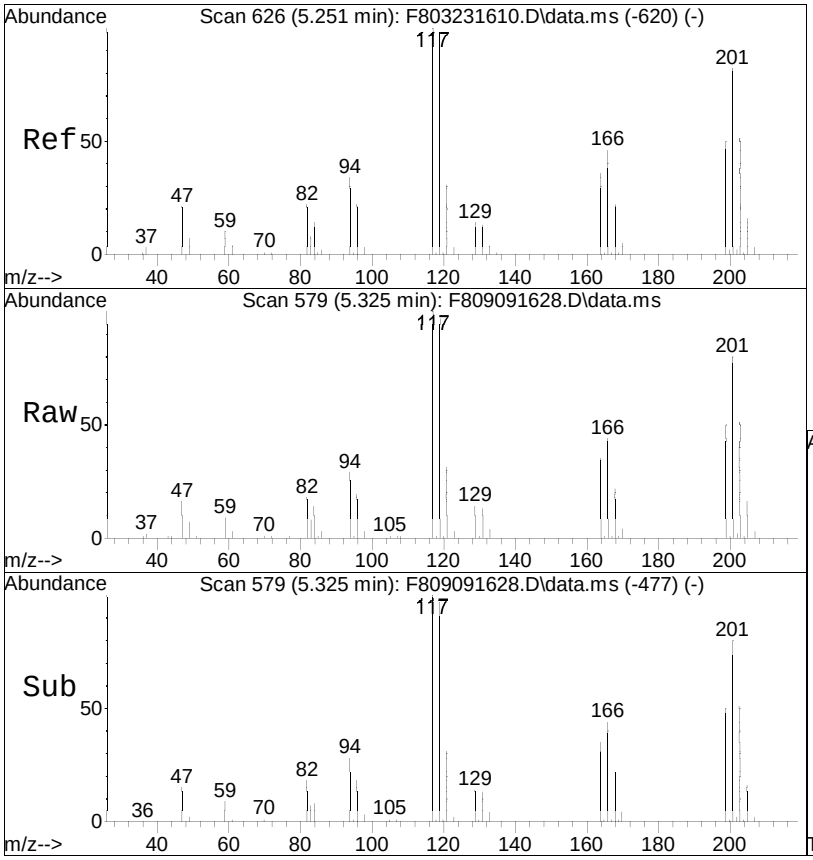


#17
Acetophenone
Concen: 4.47 ug/ml
RT: 5.228 min Scan# 559
Delta R.T. -0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:105 Resp: 337911

Ion	Ratio	Lower	Upper
105	100		
77	93.3	57.7	86.5#
51	28.2	17.1	25.7#

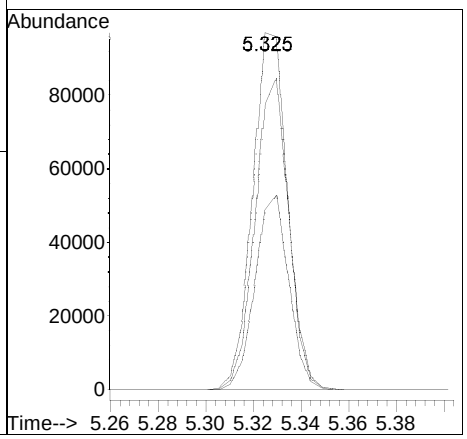


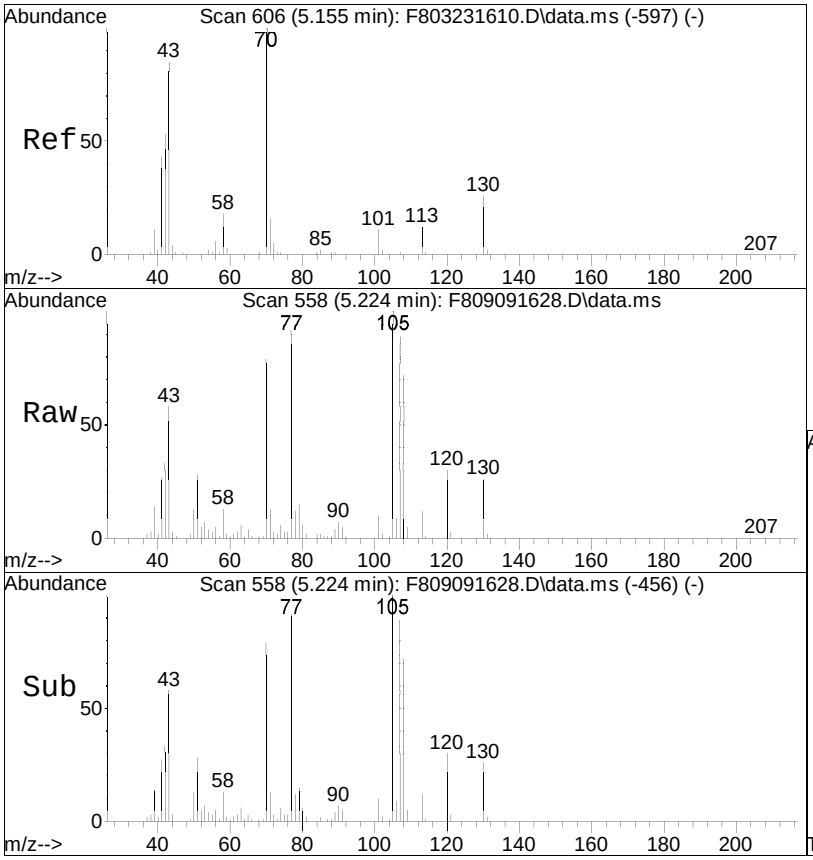


#18
Hexachloroethane
Concen: 3.84 ug/mL
RT: 5.325 min Scan# 579
Delta R.T. -0.010 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:117 Resp: 98031

Ion	Ratio	Lower	Upper
117	100		
201	85.0	62.8	94.2
199	53.2	39.0	58.4

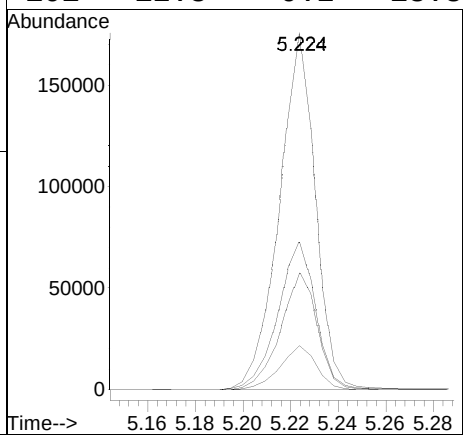


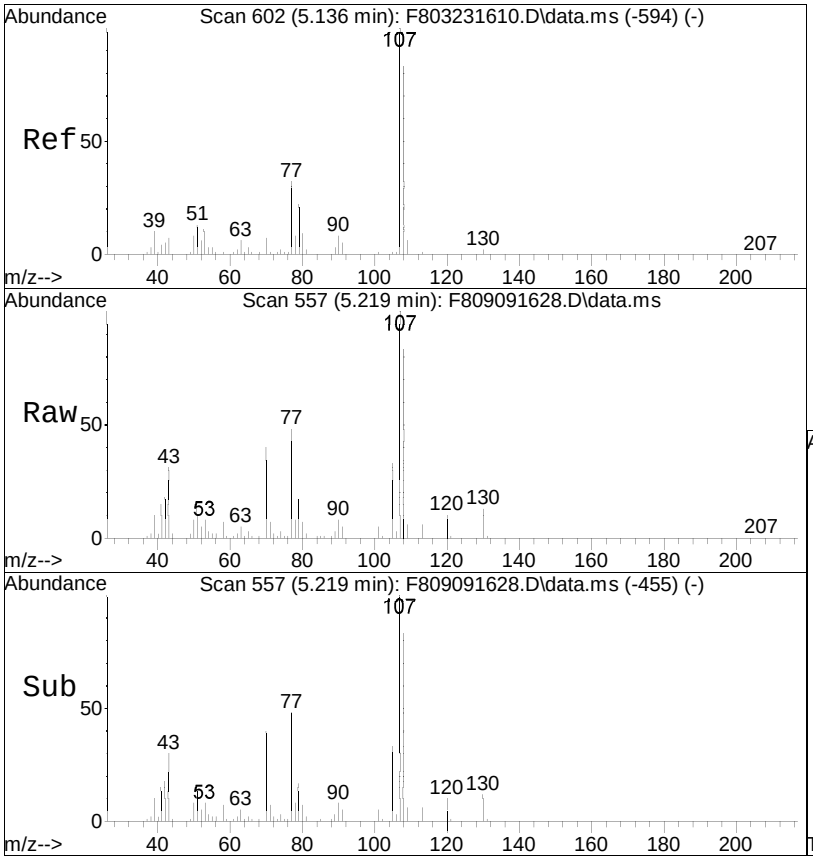


#19
N-Nitroso-di-n-propylamine
Concen: 5.34 ug/mL
RT: 5.224 min Scan# 558
Delta R.T. -0.010 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion: 70 Resp: 184640

Ion	Ratio	Lower	Upper
70	100		
42	43.4	37.1	55.7
130	33.4	24.0	36.0
101	12.3	9.2	13.8

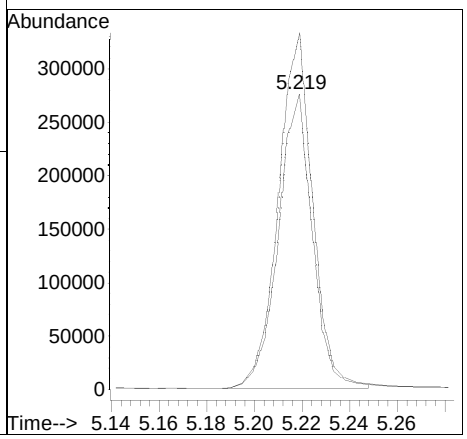


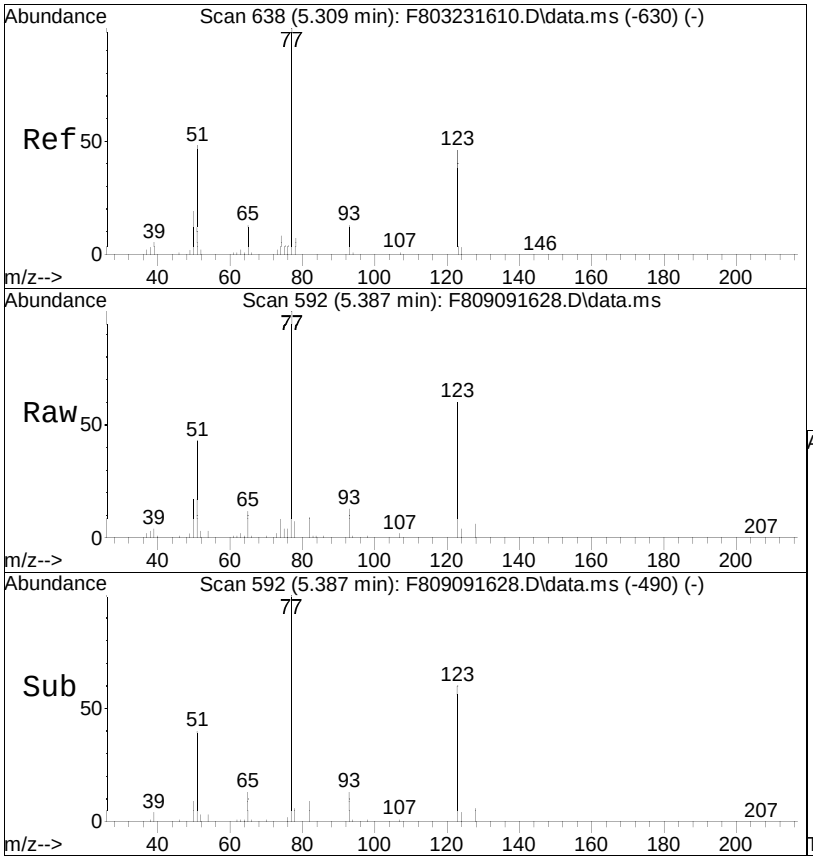


#20
4-Methylphenol
Concen: 5.13 ug/mL
RT: 5.219 min Scan# 557
Delta R.T. -0.010 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:108 Resp: 273982

Ion	Ratio	Lower	Upper
108	100		
107	121.4	94.6	142.0

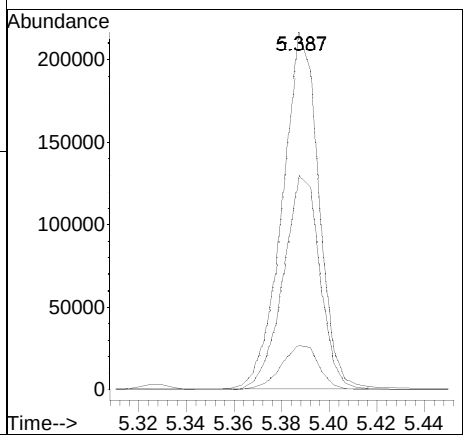


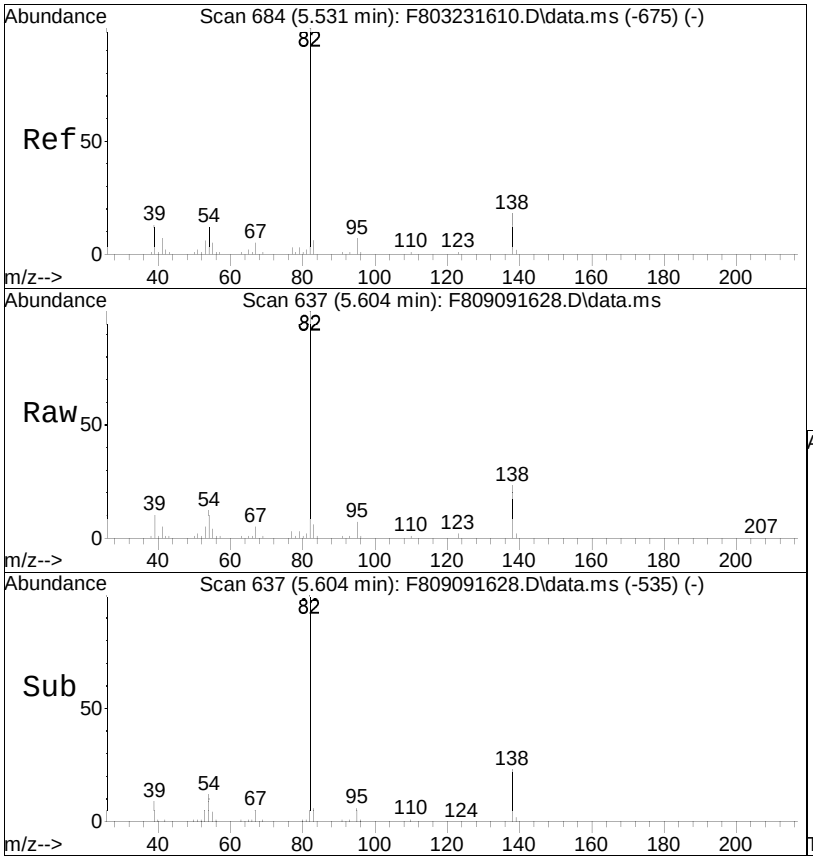


#23
Nitrobenzene
Concen: 4.53 ug/mL
RT: 5.387 min Scan# 592
Delta R.T. -0.010 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion: 77 Resp: 226861

Ion	Ratio	Lower	Upper
77	100		
123	61.0	45.4	68.2
65	13.1	10.2	15.4

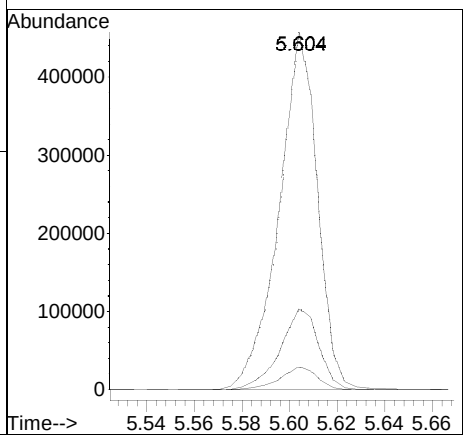


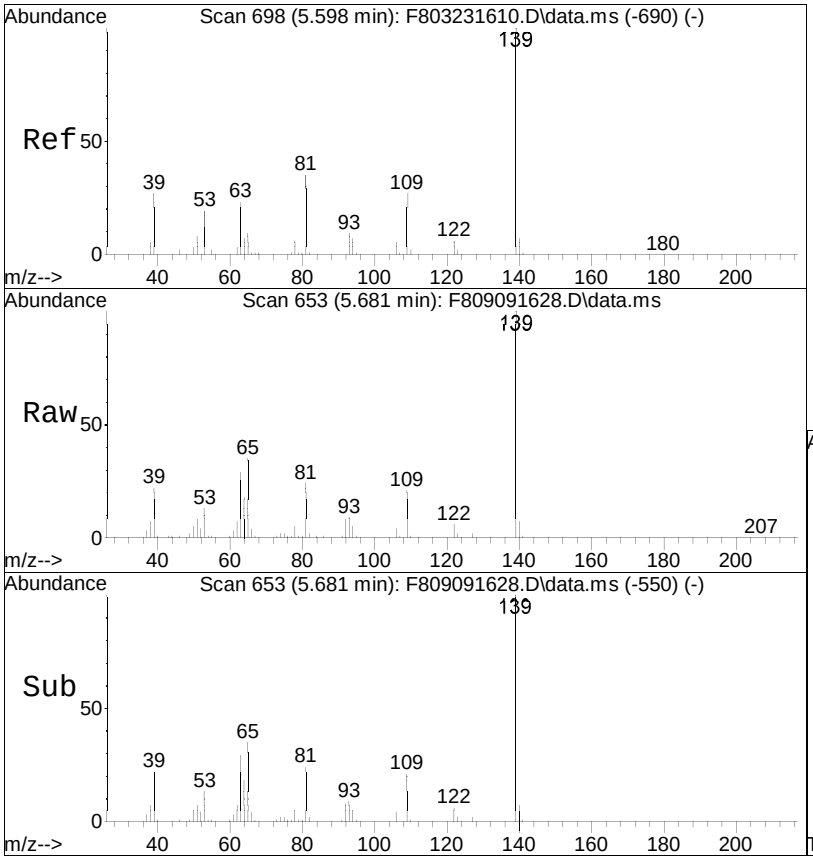


#24
Isophorone
Concen: 6.30 ug/mL
RT: 5.604 min Scan# 637
Delta R.T. -0.010 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion: 82 Resp: 507729

Ion	Ratio	Lower	Upper
82	100		
138	23.0	17.0	25.4
95	6.5	4.9	7.3

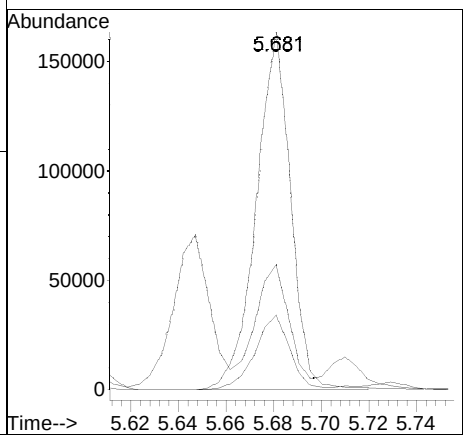


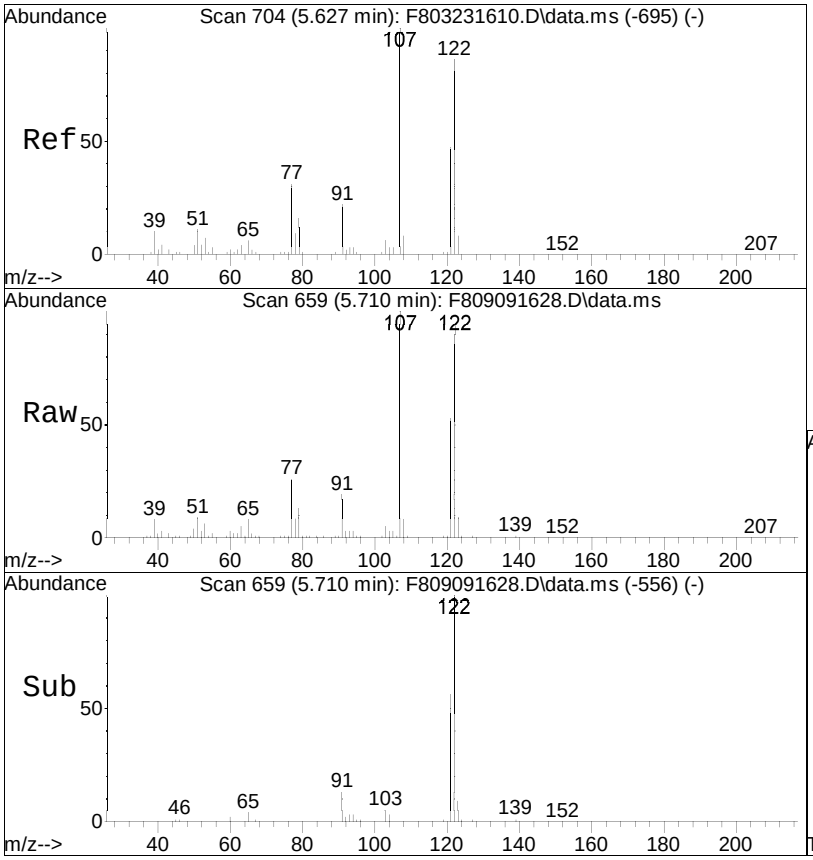


#25
2-Nitrophenol
Concen: 4.97 ug/mL
RT: 5.681 min Scan# 653
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:139 Resp: 162890

Ion	Ratio	Lower	Upper
139	100		
65	45.5	28.4	42.6#
109	21.4	16.3	24.5

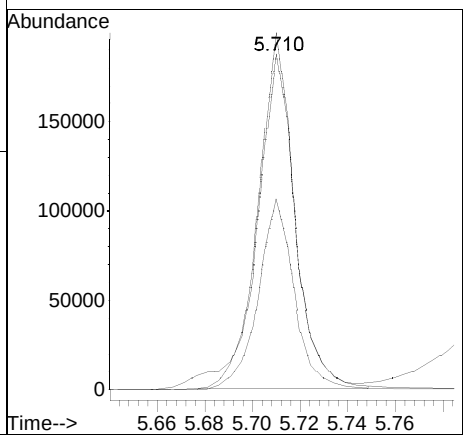


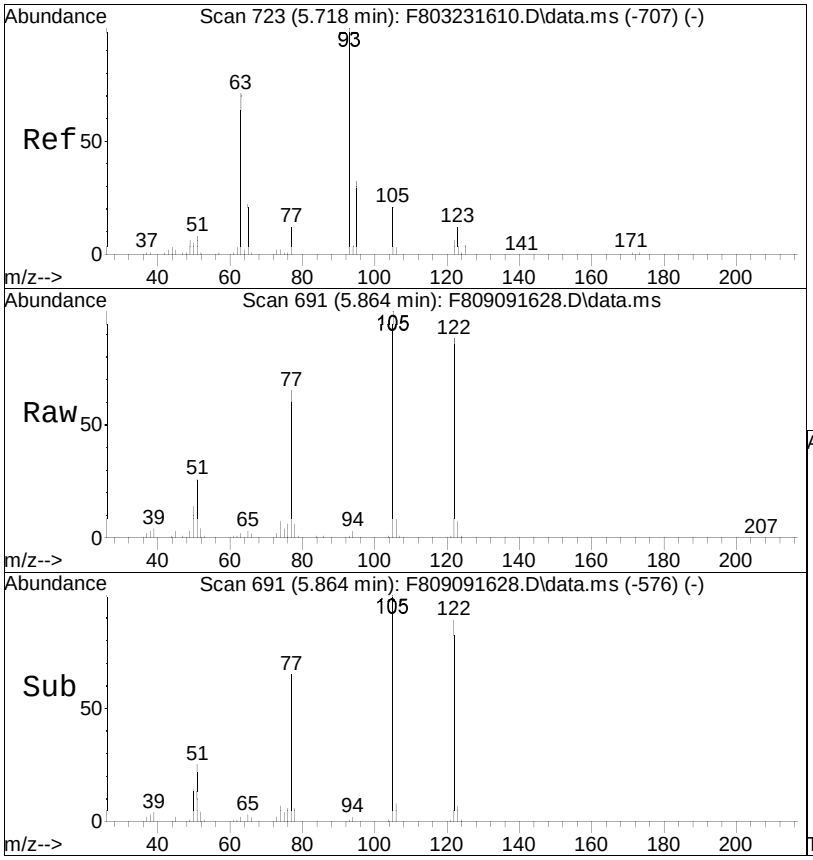


#26
2,4-Dimethylphenol
Concen: 4.05 ug/mL
RT: 5.710 min Scan# 659
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:107 Resp: 210851

Ion	Ratio	Lower	Upper
107	100		
122	91.4	78.4	117.6
121	53.5	43.0	64.6

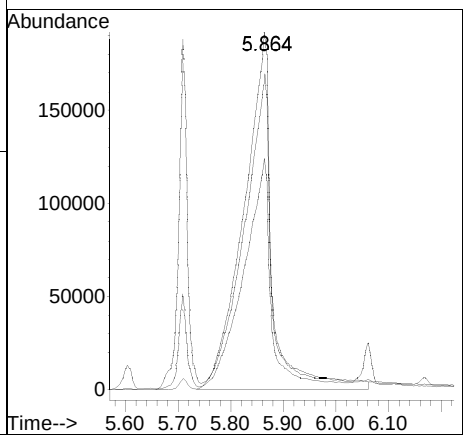


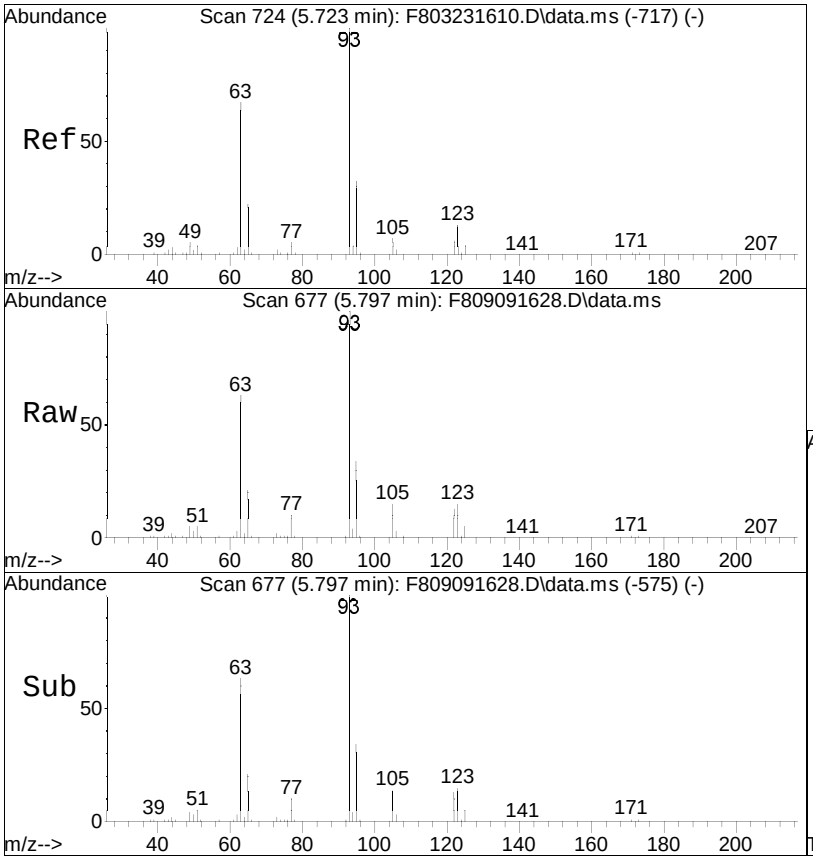


#27
Benzoic acid
Concen: 28.82 ug/mL M4
RT: 5.864 min Scan# 691
Delta R.T. 0.053 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:105 Resp: 720162

Ion	Ratio	Lower	Upper
105	100		
122	83.7	70.9	106.3
77	59.8	53.4	80.0

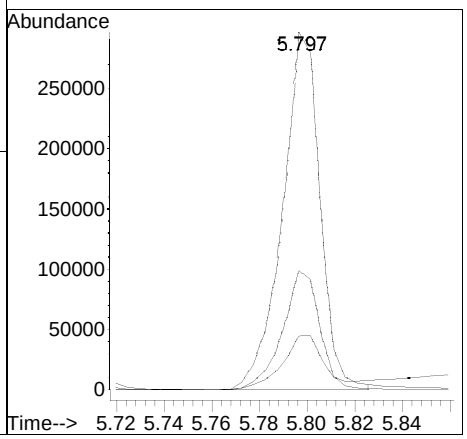


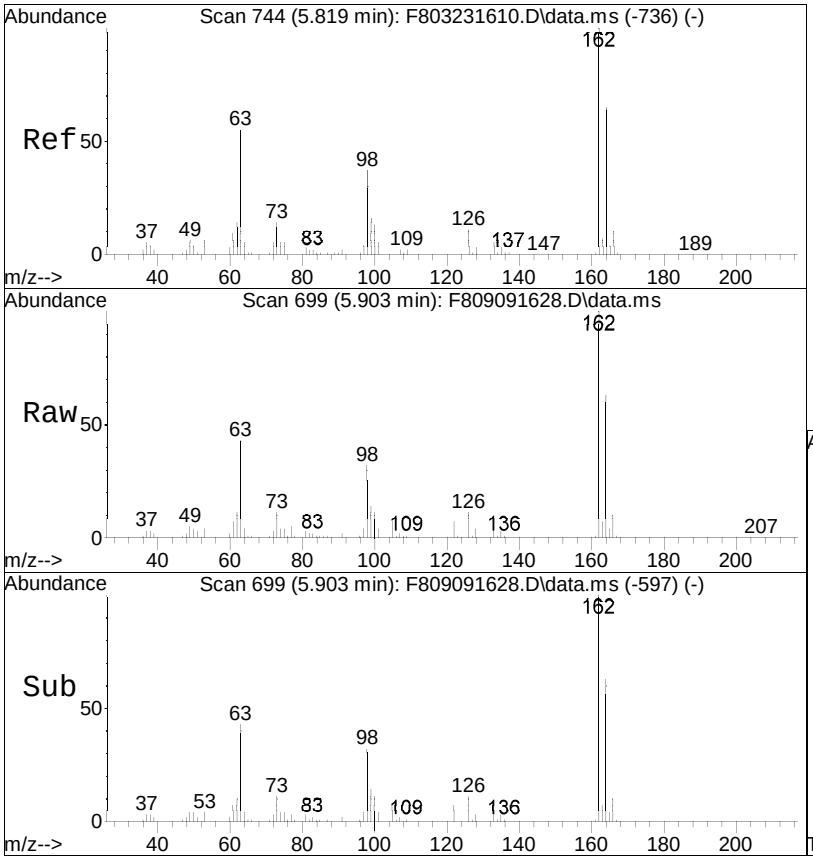


#28
bis(2-Chloroethoxy)methane
Concen: 5.52 ug/mL
RT: 5.797 min Scan# 677
Delta R.T. -0.010 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion: 93 Resp: 322291

Ion	Ratio	Lower	Upper
93	100		
95	33.3	26.7	40.1
123	18.1	11.9	17.9#

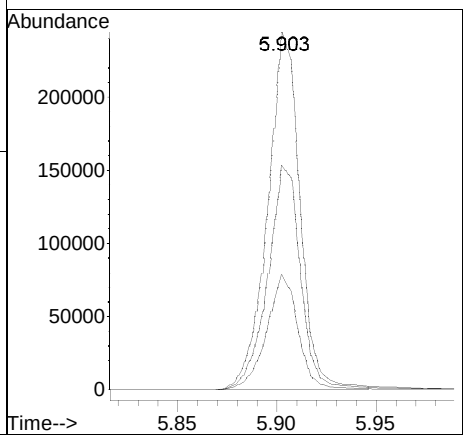


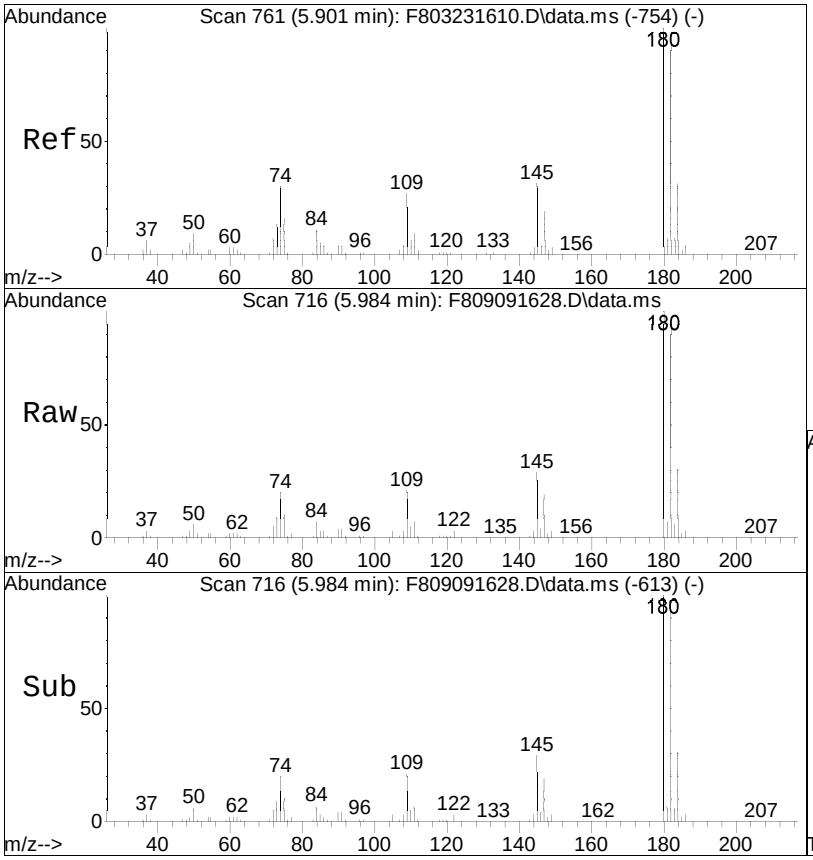


#29
2,4-Dichlorophenol
Concen: 5.76 ug/mL
RT: 5.903 min Scan# 699
Delta R.T. -0.010 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:162 Resp: 274266

Ion	Ratio	Lower	Upper
162	100		
164	63.7	50.8	76.2
98	31.4	26.3	39.5

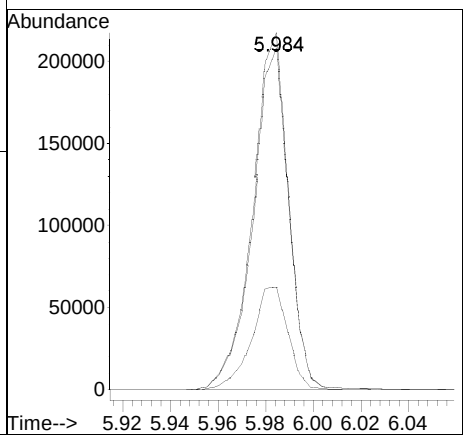


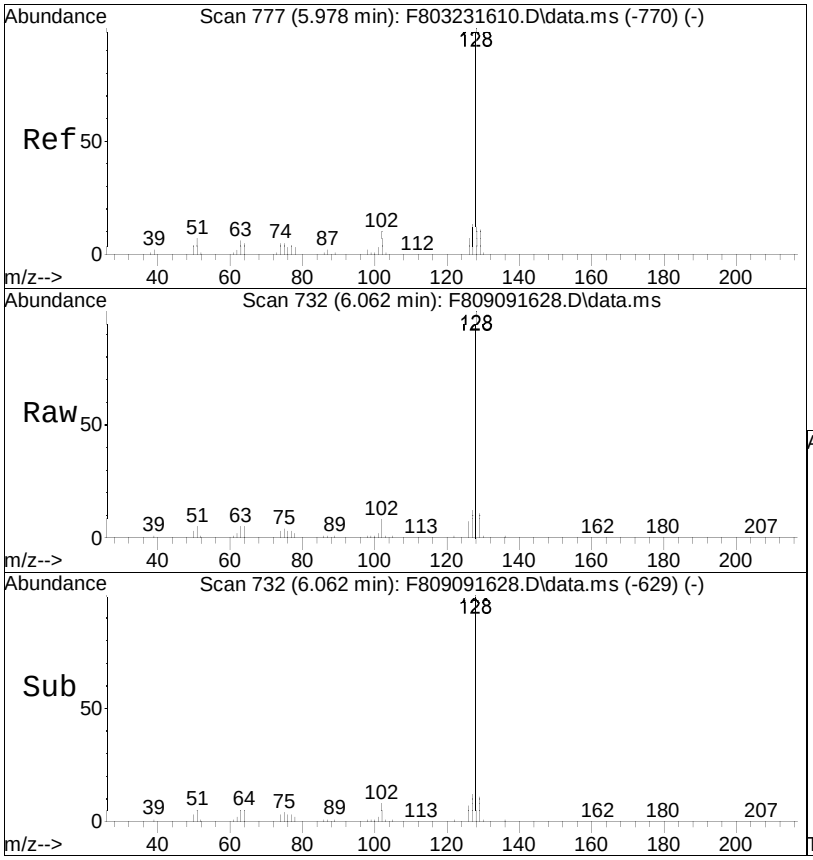


#30
1,2,4-Trichlorobenzene
Concen: 4.36 ug/mL
RT: 5.984 min Scan# 716
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:180 Resp: 225684

Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.2	114.4
145	29.8	23.6	35.4

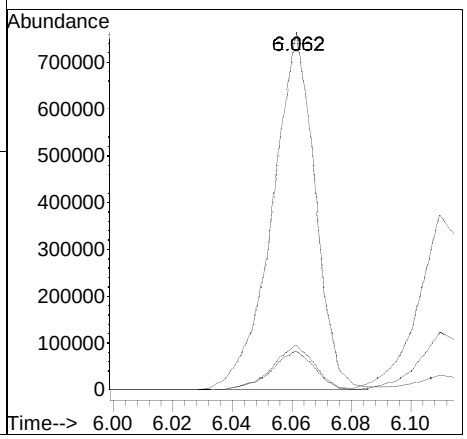


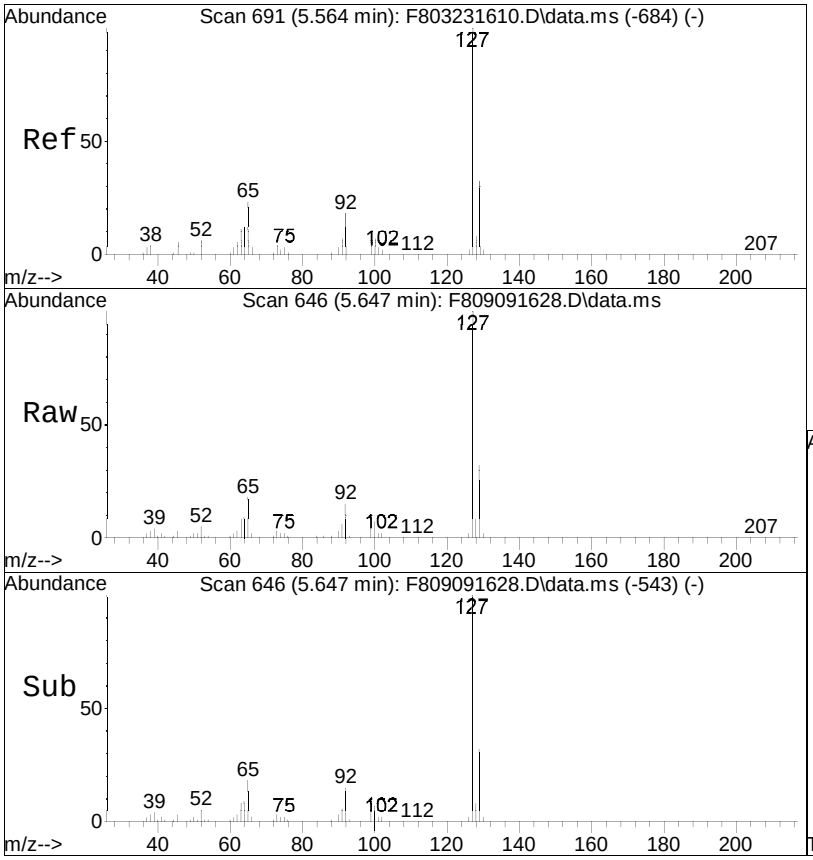


#31
Naphthalene
Concen: 4.58 ug/mL
RT: 6.062 min Scan# 732
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:128 Resp: 759309

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.0	13.4
127	13.2	10.0	15.0

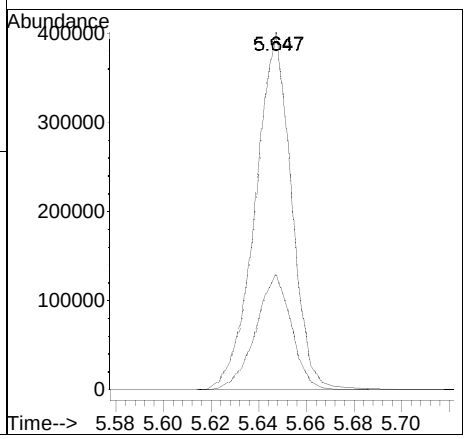


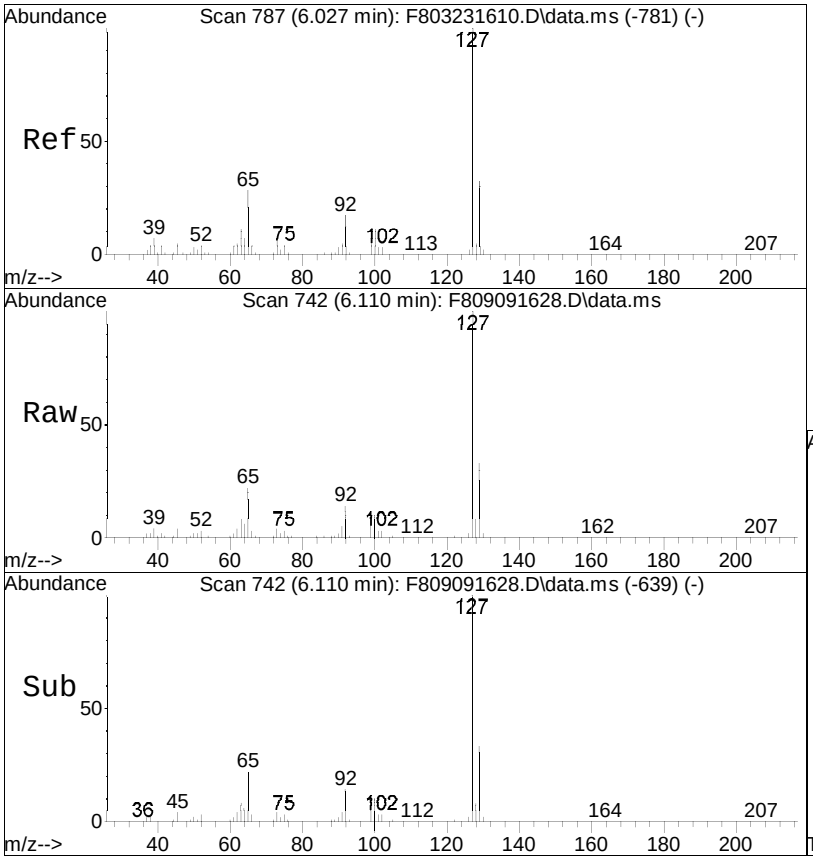


#32
2-Chloroaniline
Concen: 5.02 ug/ml
RT: 5.647 min Scan# 646
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:127 Resp: 420382

Ion	Ratio	Lower	Upper
127	100		
129	32.2	26.2	39.4

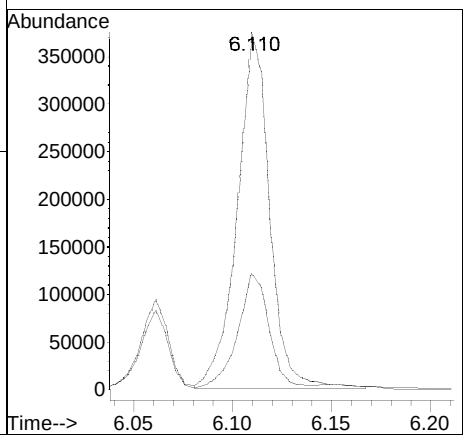


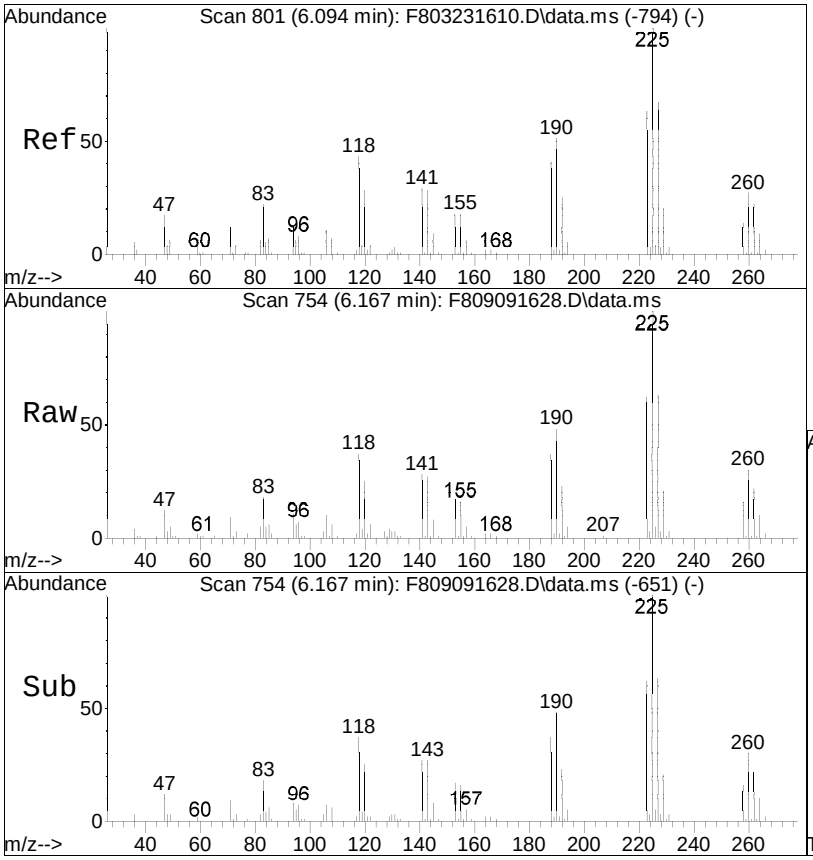


#33
4-Chloroaniline
Concen: 5.93 ug/mL M4
RT: 6.110 min Scan# 742
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:127 Resp: 423359

Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.8	38.6

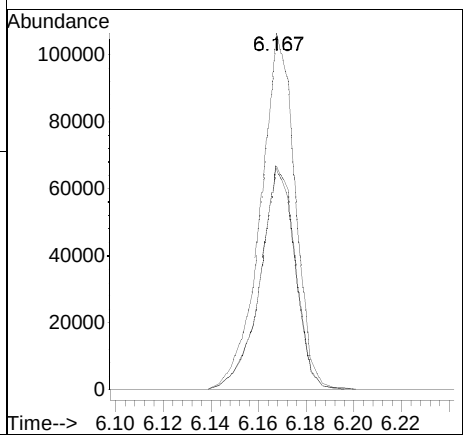


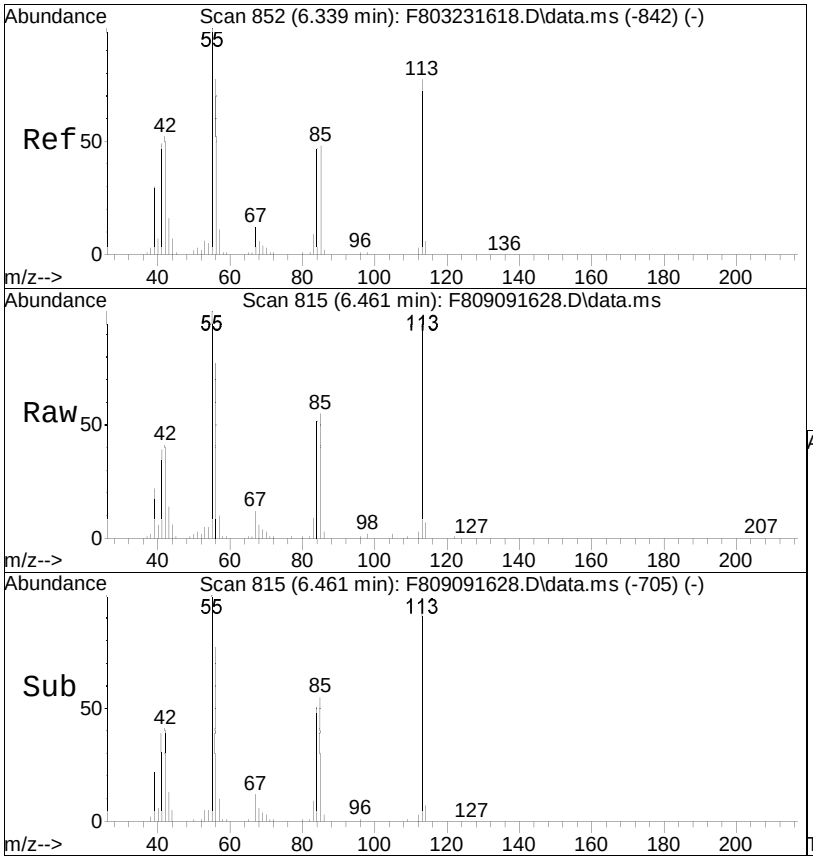


#34
Hexachlorobutadiene
Concen: 4.08 ug/mL
RT: 6.167 min Scan# 754
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:225 Resp: 107406

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.8	76.2
227	64.0	51.1	76.7

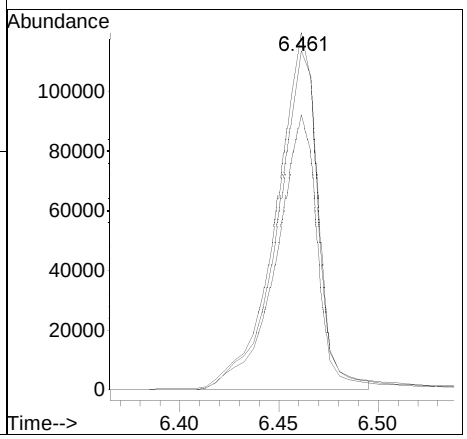


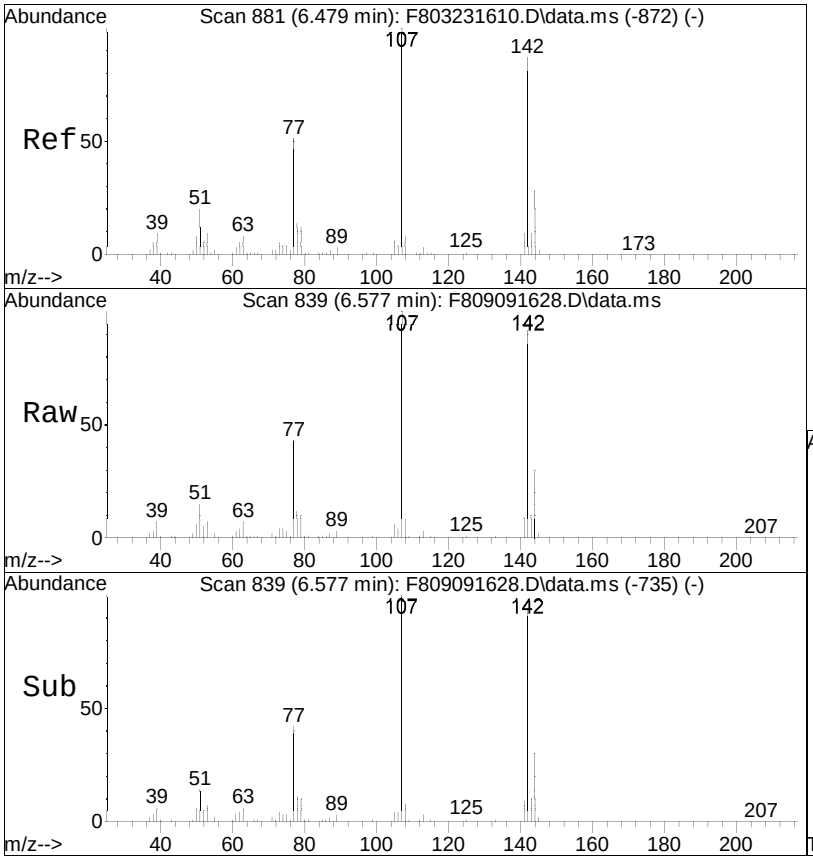


#35
Caprolactam
Concen: 10.65 ug/ml
RT: 6.461 min Scan# 815
Delta R.T. 0.029 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:113 Resp: 164334

Ion	Ratio	Lower	Upper
113	100		
55	104.9	82.6	123.8
56	80.9	63.0	94.6

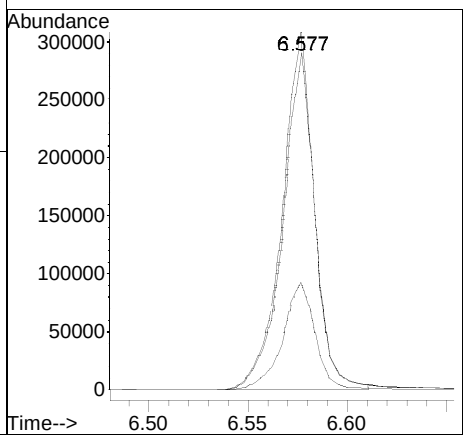


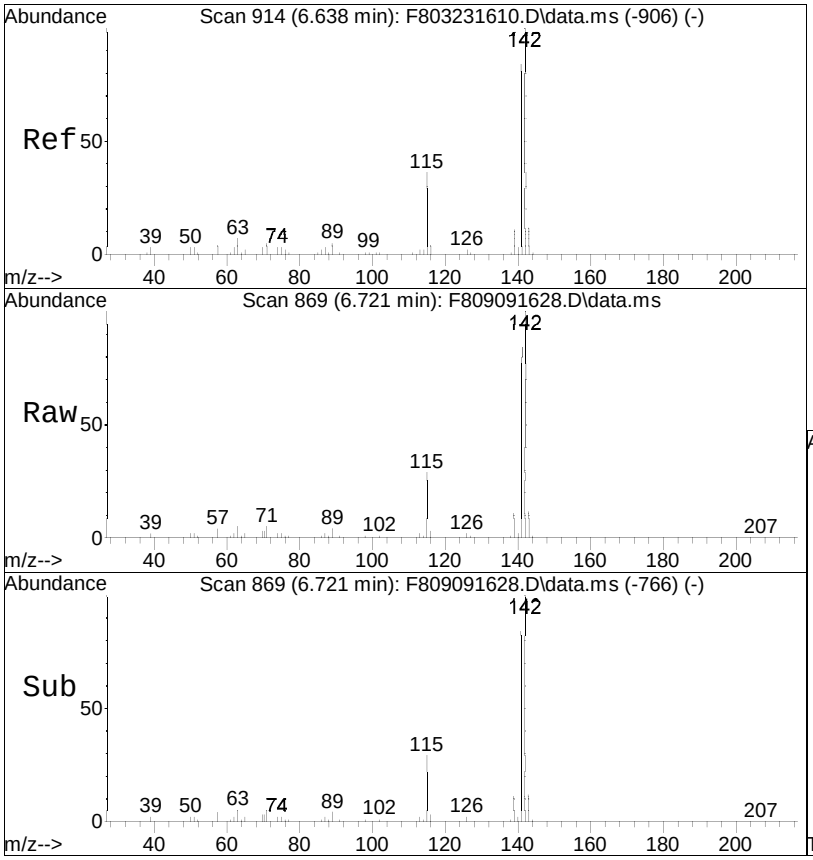


#36
4-Chloro-3-methylphenol
Concen: 7.50 ug/mL
RT: 6.577 min Scan# 839
Delta R.T. -0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:107 Resp: 344181

Ion	Ratio	Lower	Upper
107	100		
144	30.5	24.3	36.5
142	94.1	74.4	111.6

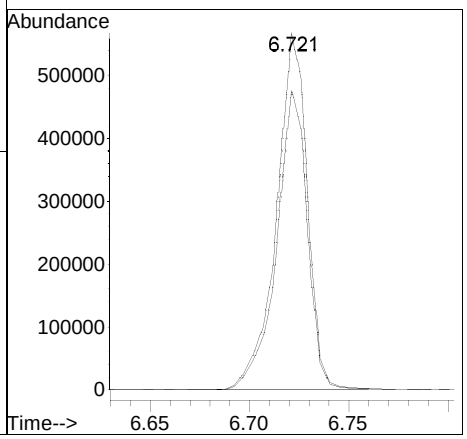


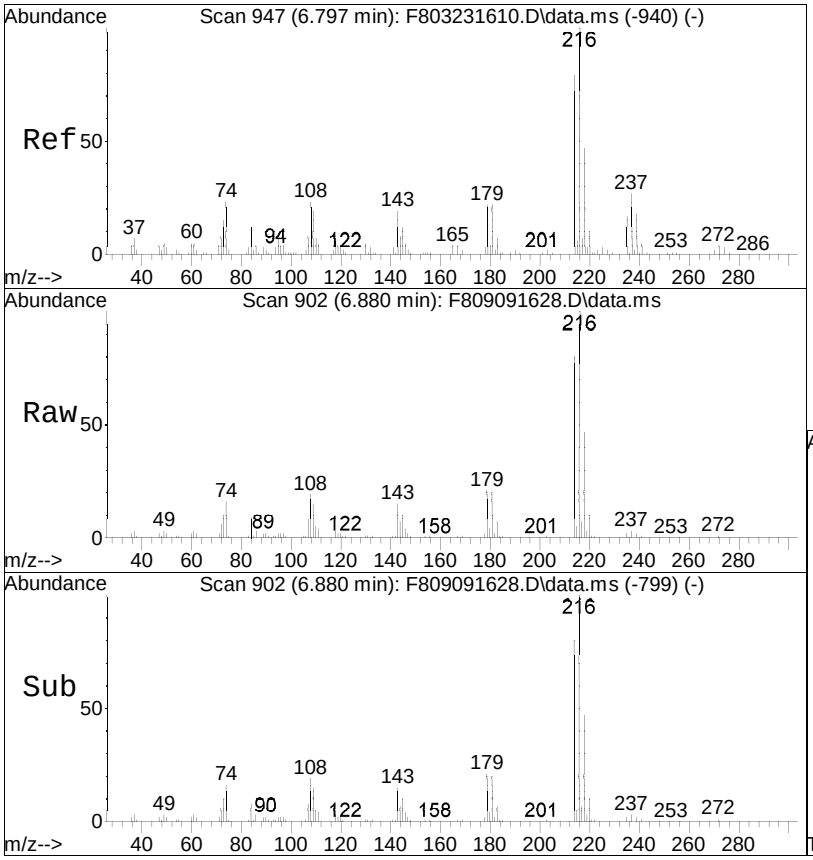


#37
2-Methylnaphthalene
Concen: 5.41 ug/mL
RT: 6.721 min Scan# 869
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:142 Resp: 609314

Ion	Ratio	Lower	Upper
142	100		
141	84.2	66.6	100.0

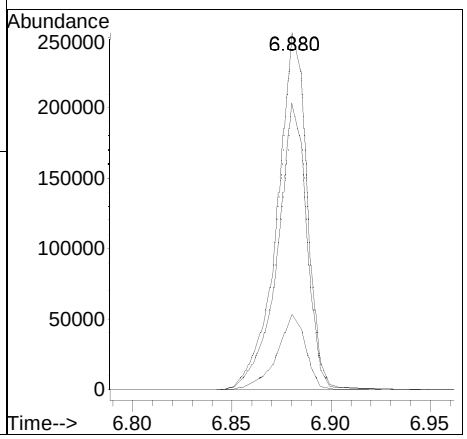


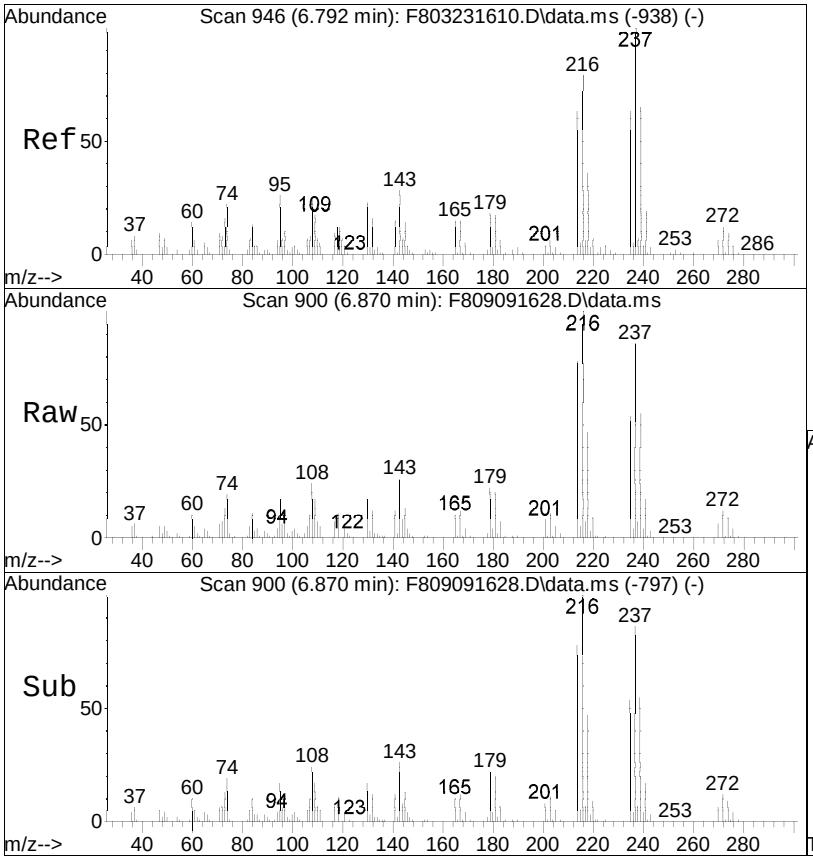


#39
1,2,4,5-Tetrachlorobenzene
Concen: 5.61 ug/mL
RT: 6.880 min Scan# 902
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:216 Resp: 267466

Ion	Ratio	Lower	Upper
216	100		
214	78.8	63.0	94.6
179	20.6	16.2	24.4

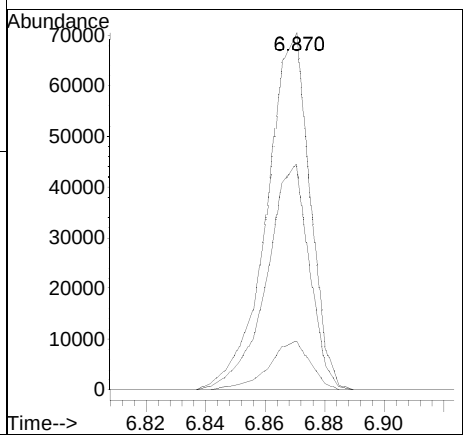


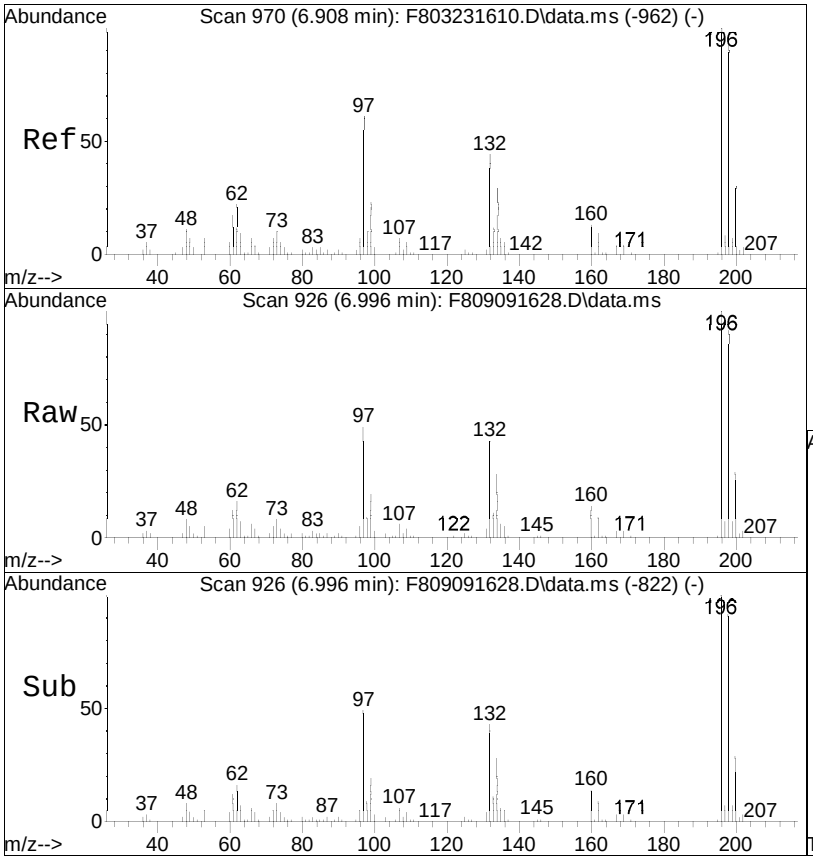


#40
Hexachlorocyclopentadiene
Concen: 3.60 ug/mL
RT: 6.870 min Scan# 900
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:237 Resp: 71176

Ion	Ratio	Lower	Upper
237	100		
235	62.6	53.3	79.9
272	13.1	10.9	16.3

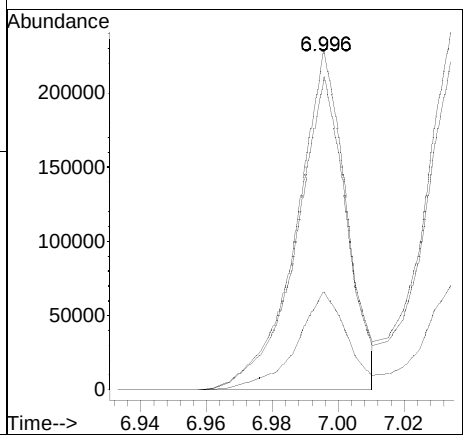


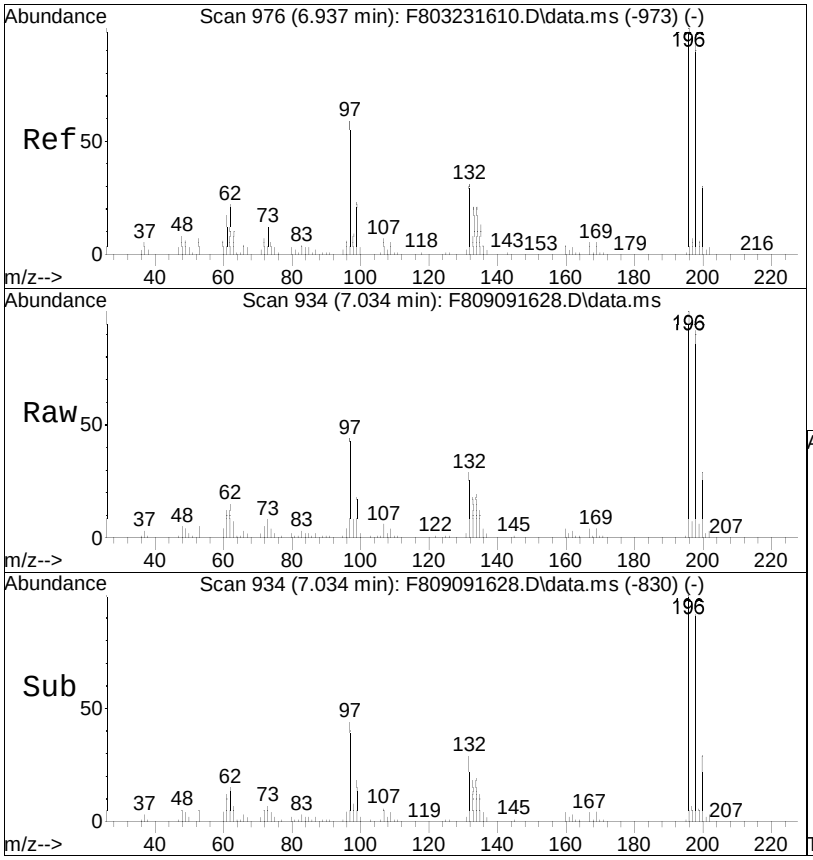


#41
2,4,6-Trichlorophenol
Concen: 7.08 ug/mL M6
RT: 6.996 min Scan# 926
Delta R.T. 0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:196 Resp: 243075

Ion	Ratio	Lower	Upper
196	100		
198	96.8	73.6	110.4
200	30.4	23.5	35.3

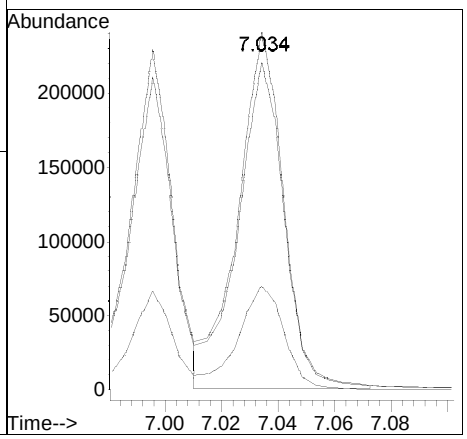


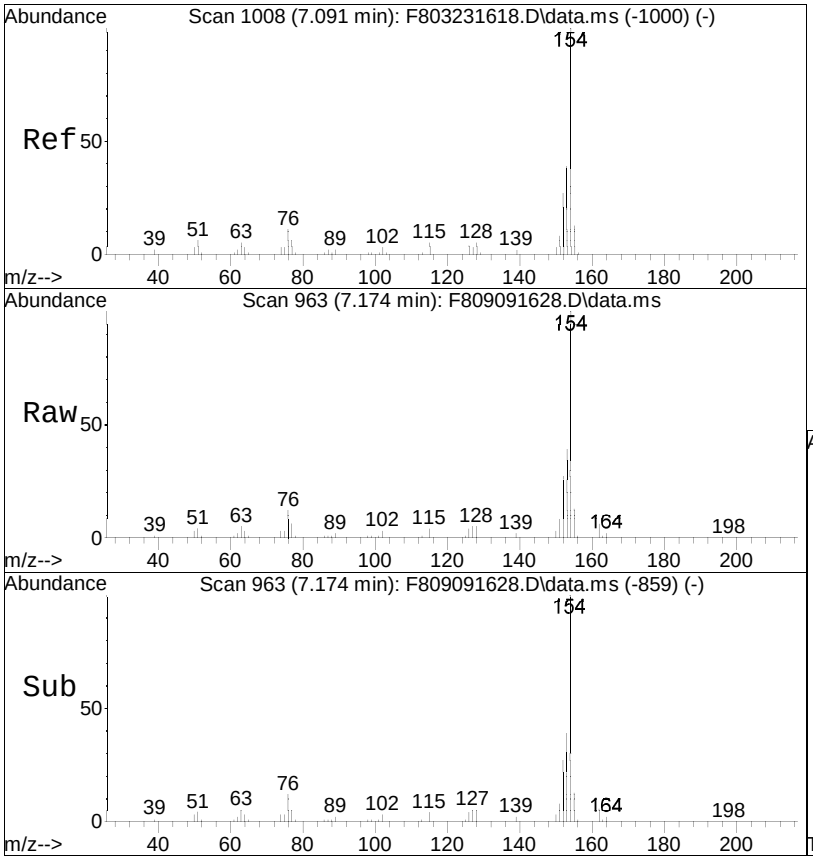


#42
2,4,5-Trichlorophenol
Concen: 8.74 ug/mL M4
RT: 7.034 min Scan# 934
Delta R.T. -0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:196 Resp: 266876

Ion	Ratio	Lower	Upper
196	100		
198	90.6	73.2	109.8
200	29.3	23.9	35.9

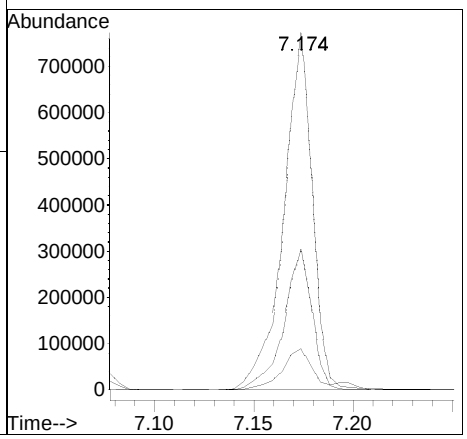


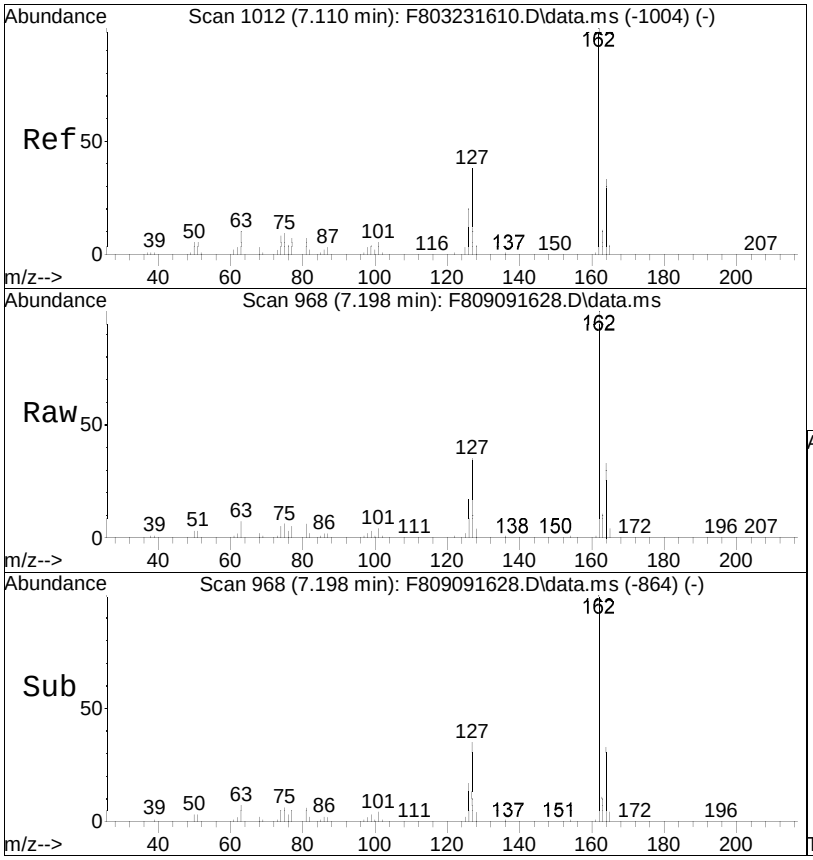


#44
Biphenyl
Concen: 5.87 ug/ml
RT: 7.174 min Scan# 963
Delta R.T. -0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:154 Resp: 774604

Ion	Ratio	Lower	Upper
154	100		
153	39.0	31.4	47.0
76	13.9	9.8	14.6

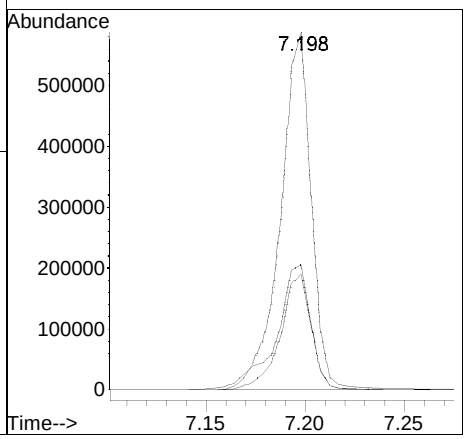


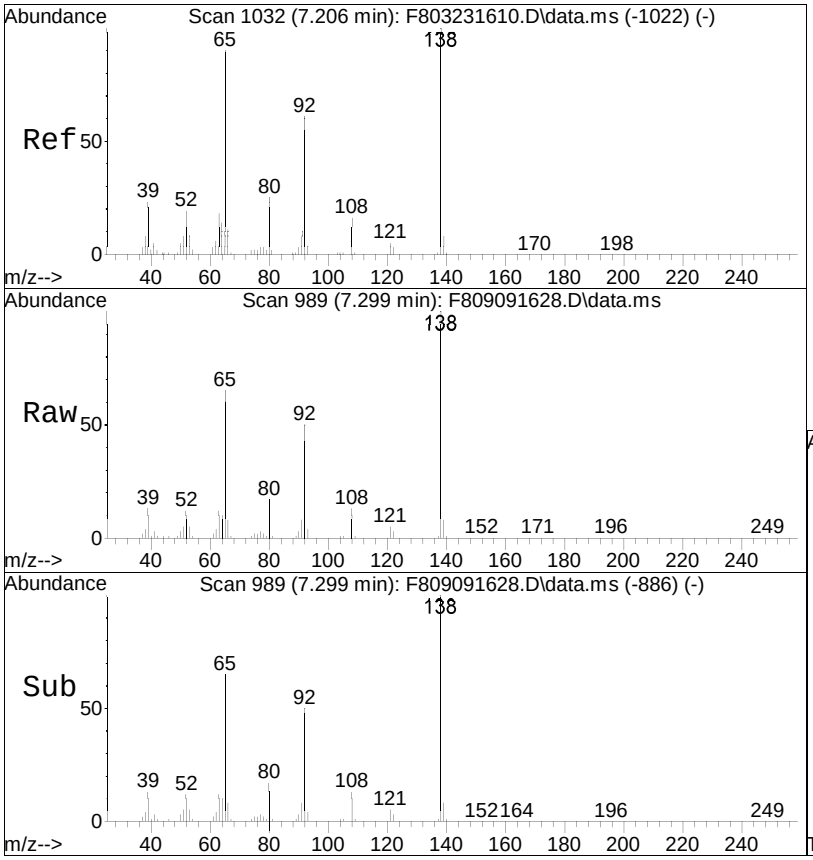


#45
2-Chloronaphthalene
Concen: 6.07 ug/mL
RT: 7.198 min Scan# 968
Delta R.T. -0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:162 Resp: 626994

Ion	Ratio	Lower	Upper
162	100		
164	32.6	26.4	39.6
127	38.9	30.2	45.2

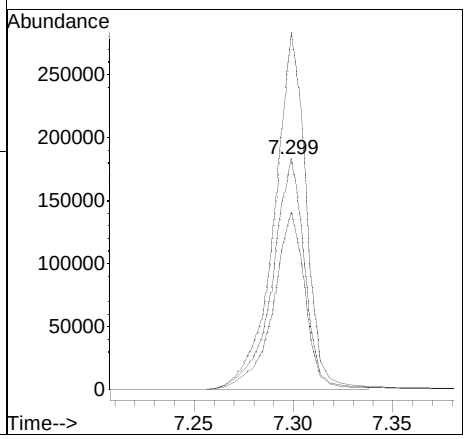


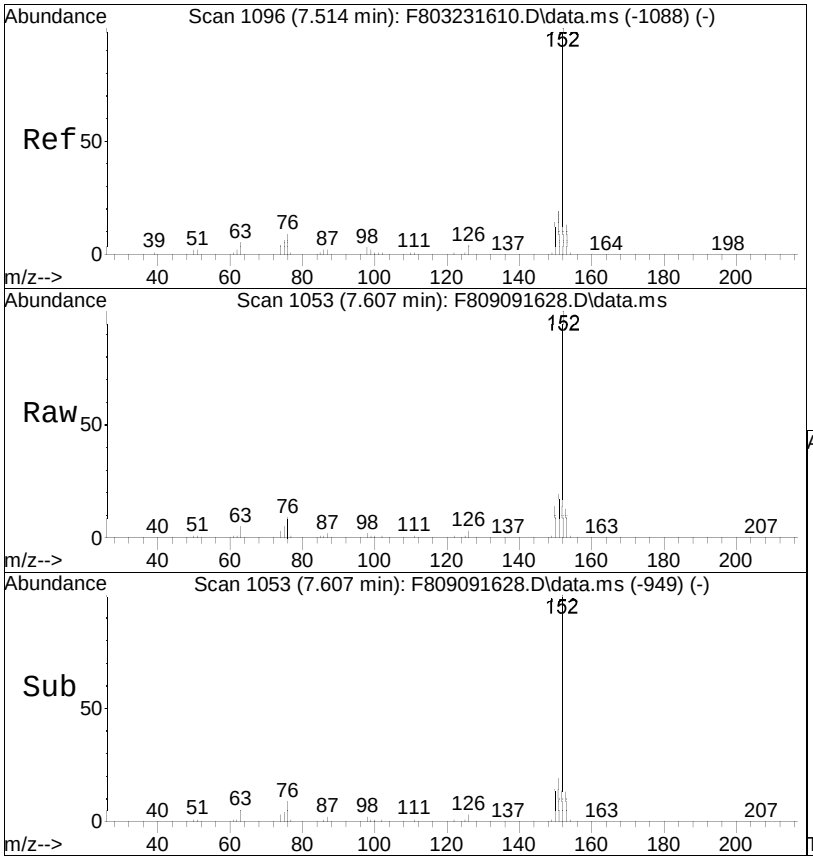


#46
2-Nitroaniline
Concen: 8.65 ug/mL
RT: 7.299 min Scan# 989
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion: 65 Resp: 206467

Ion	Ratio	Lower	Upper
65	100		
92	76.5	61.0	91.4
138	152.2	122.0	183.0

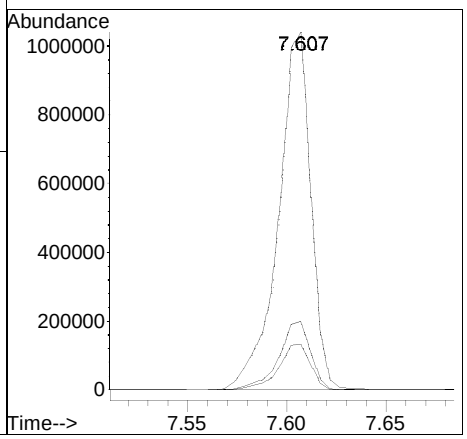


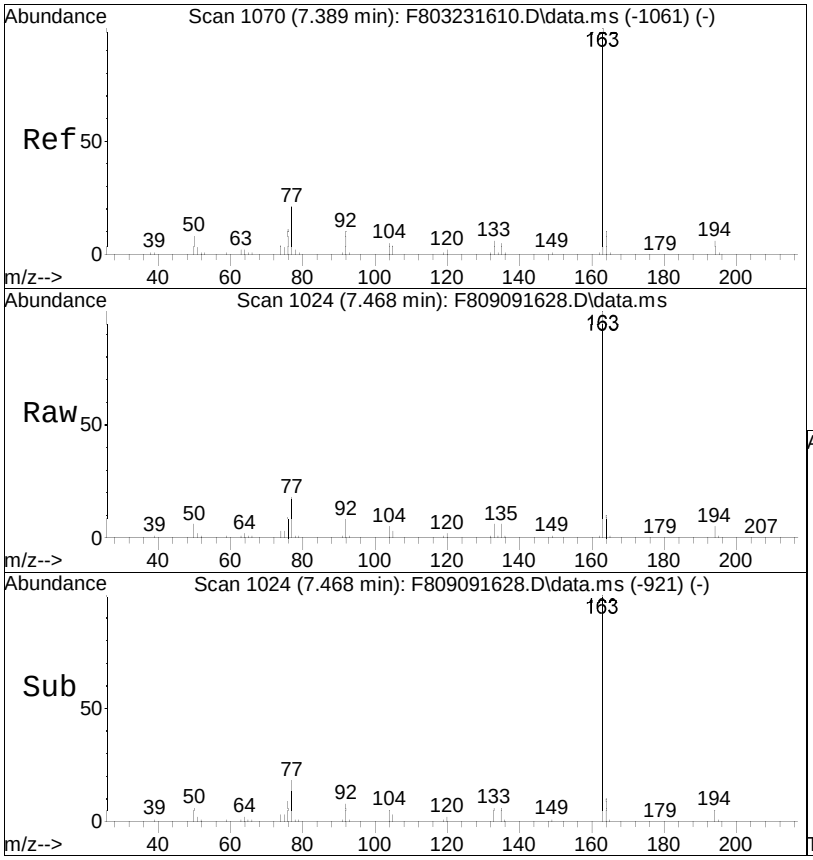


#47
Acenaphthylene
Concen: 6.89 ug/mL
RT: 7.607 min Scan# 1053
Delta R.T. -0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:152 Resp: 1176551

Ion	Ratio	Lower	Upper
152	100		
151	19.1	15.8	23.8
153	12.9	10.6	16.0

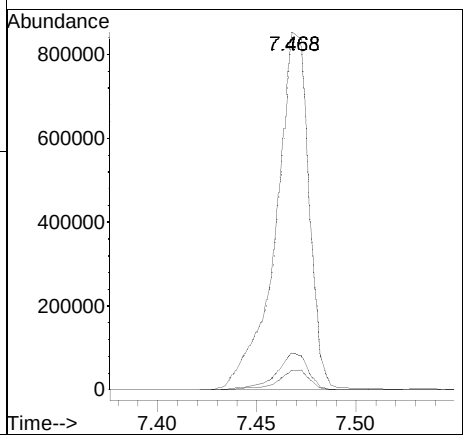


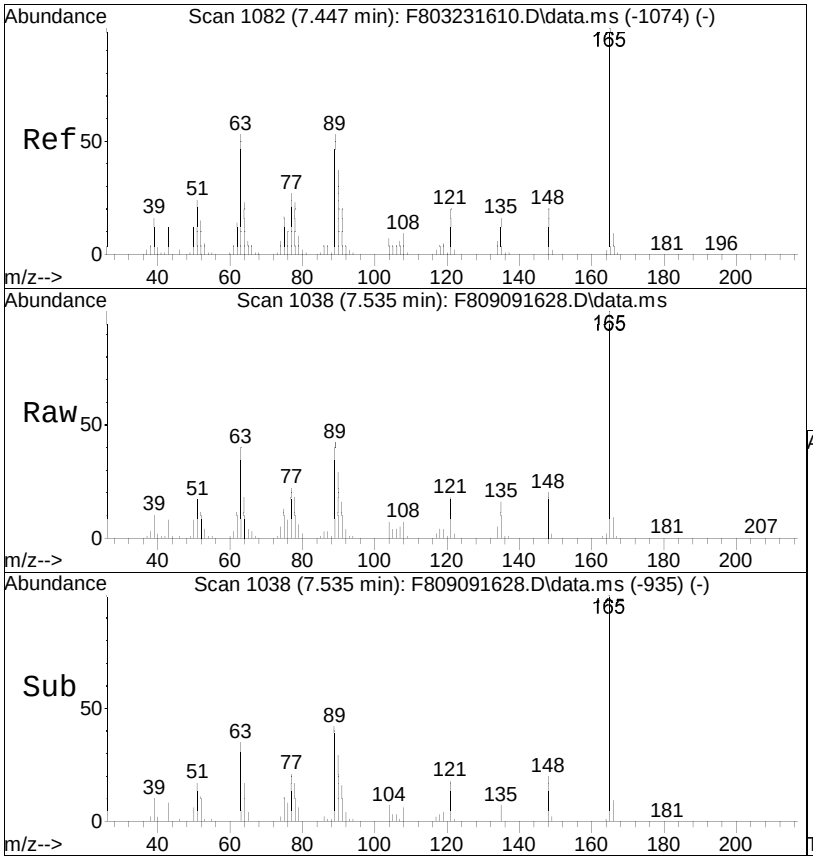


#48
Dimethylphthalate
Concen: 8.89 ug/mL
RT: 7.468 min Scan# 1024
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:163 Resp: 987495

Ion	Ratio	Lower	Upper
163	100		
194	5.6	4.4	6.6
164	10.2	8.3	12.5

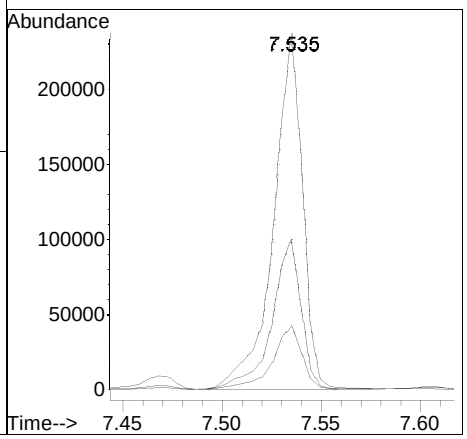


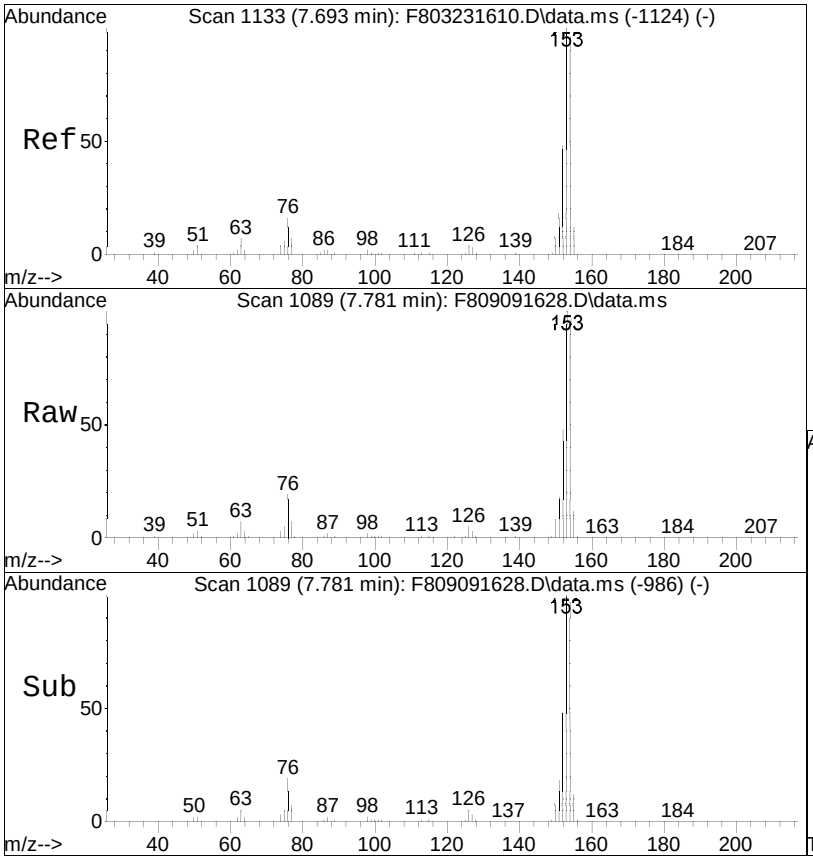


#49
2,6-Dinitrotoluene
Concen: 9.28 ug/mL
RT: 7.535 min Scan# 1038
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:165 Resp: 239469

Ion	Ratio	Lower	Upper
165	100		
89	42.8	40.5	60.7
121	18.5	16.6	25.0

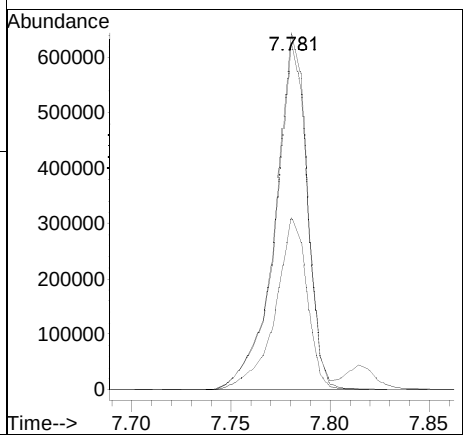


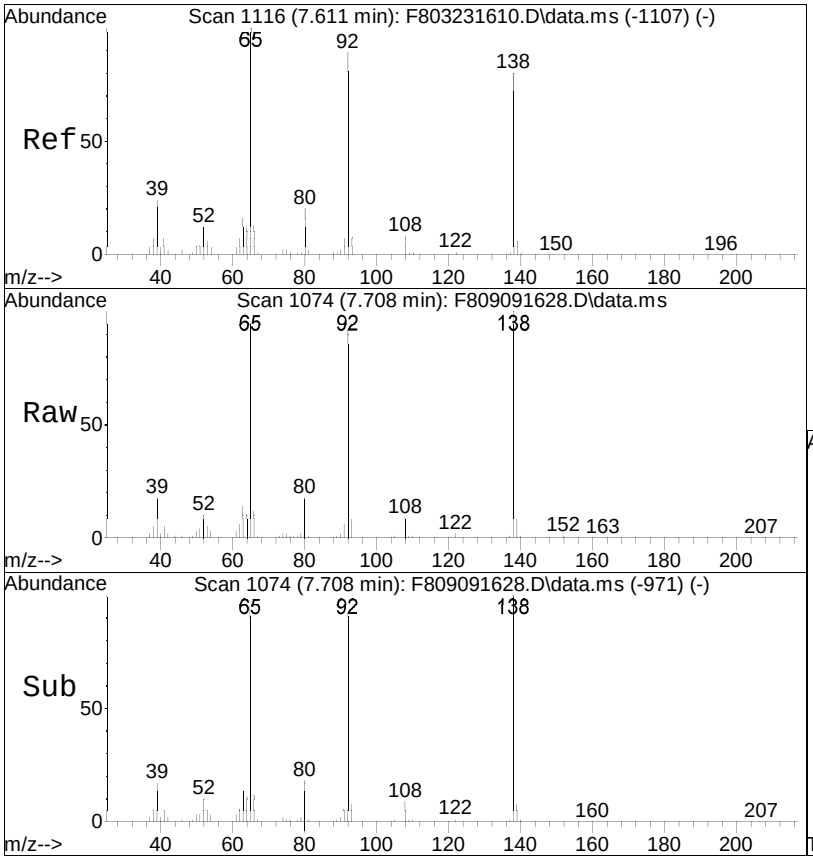


#50
Acenaphthene
Concen: 7.01 ug/mL
RT: 7.781 min Scan# 1089
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:153 Resp: 727929

Ion	Ratio	Lower	Upper
153	100		
154	97.0	75.4	113.0
152	47.3	39.3	58.9

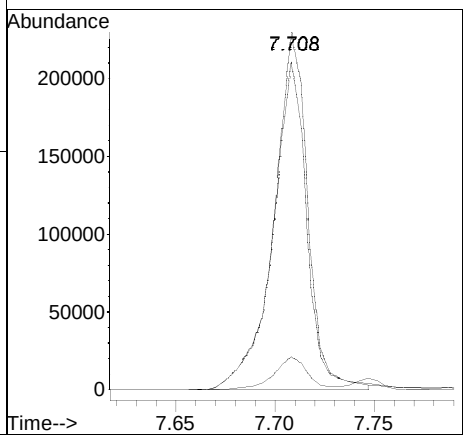


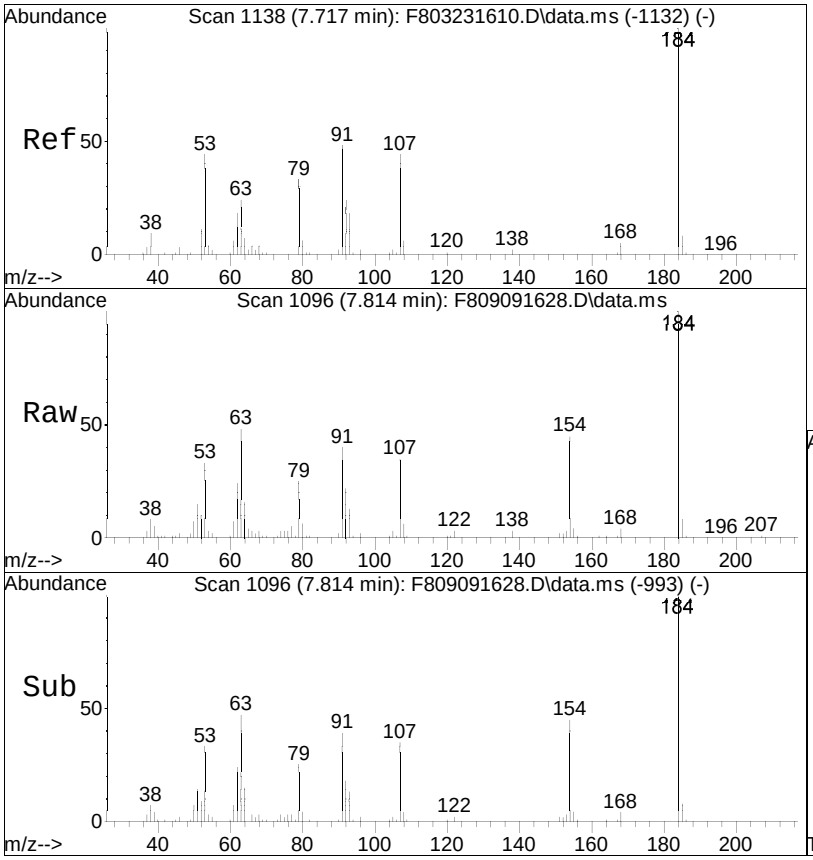


#51
3-Nitroaniline
Concen: 9.20 ug/mL
RT: 7.708 min Scan# 1074
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:138 Resp: 271792

Ion	Ratio	Lower	Upper
138	100		
108	9.7	8.9	13.3
92	91.9	72.2	108.4

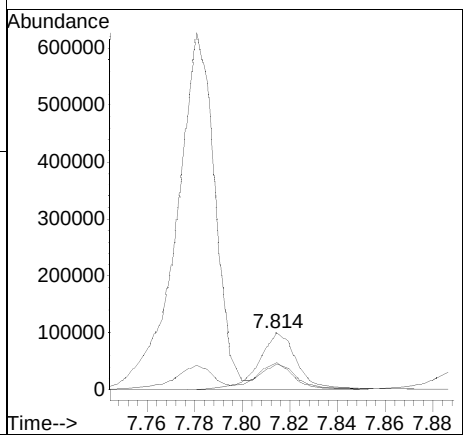


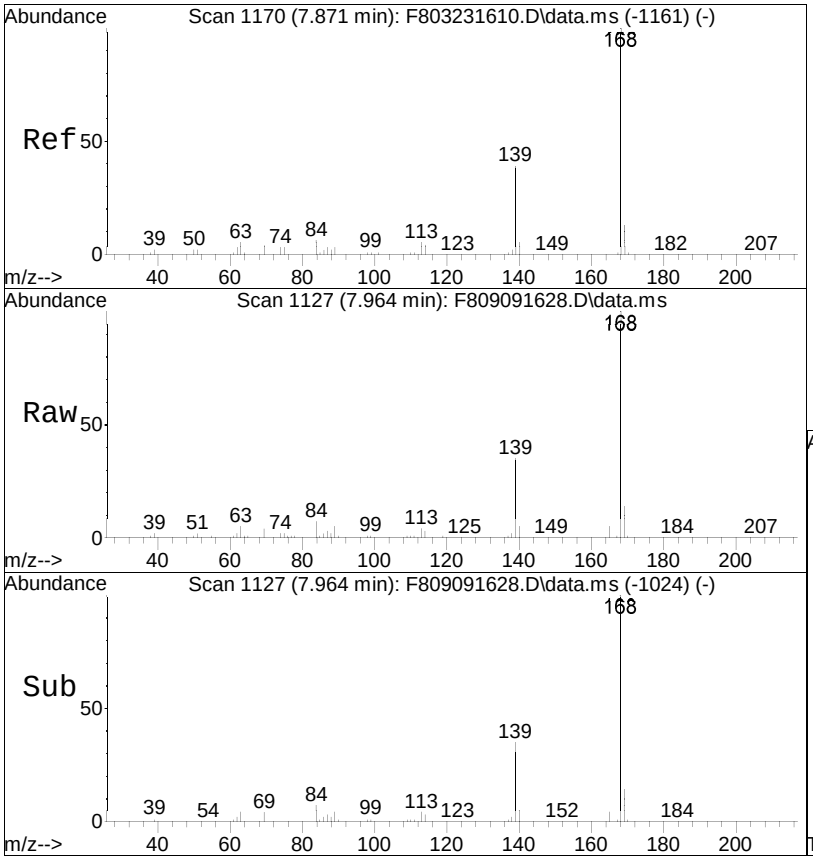


#52
2,4-Dinitrophenol
Concen: 9.17 ug/mL
RT: 7.814 min Scan# 1096
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:184 Resp: 109681

Ion	Ratio	Lower	Upper
184	100		
63	44.5	43.8	65.6
154	32.7	37.1	55.7#

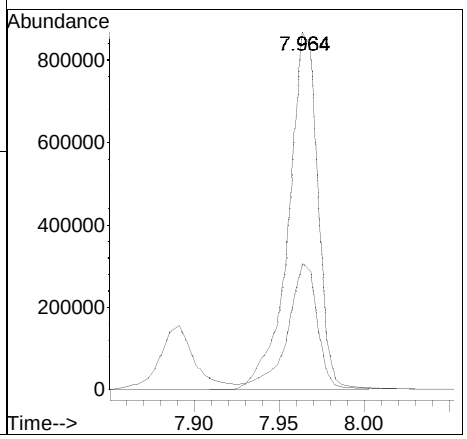


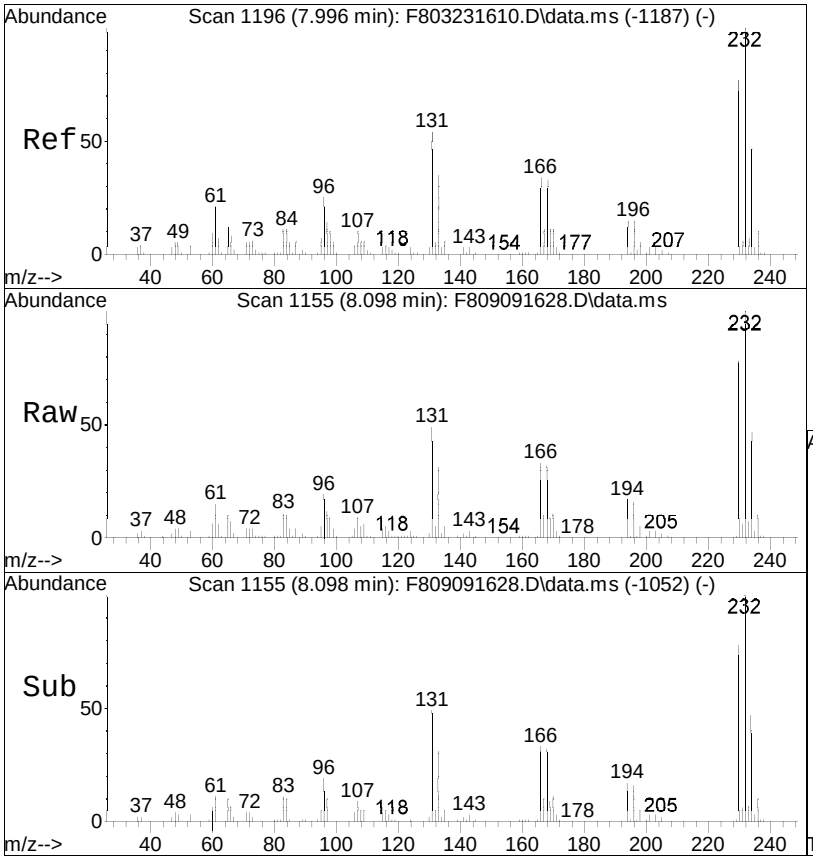


#53
Dibenzofuran
Concen: 7.65 ug/mL
RT: 7.964 min Scan# 1127
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:168 Resp: 1037897

Ion	Ratio	Lower	Upper
168	100		
139	34.9	28.8	43.2

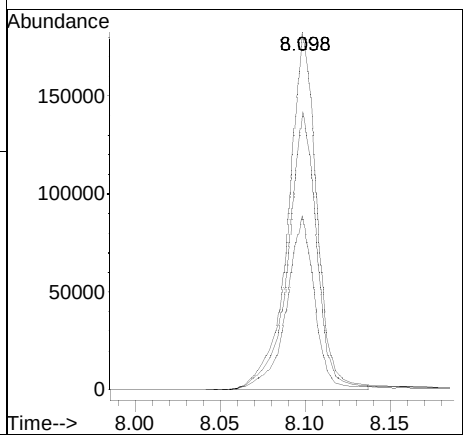


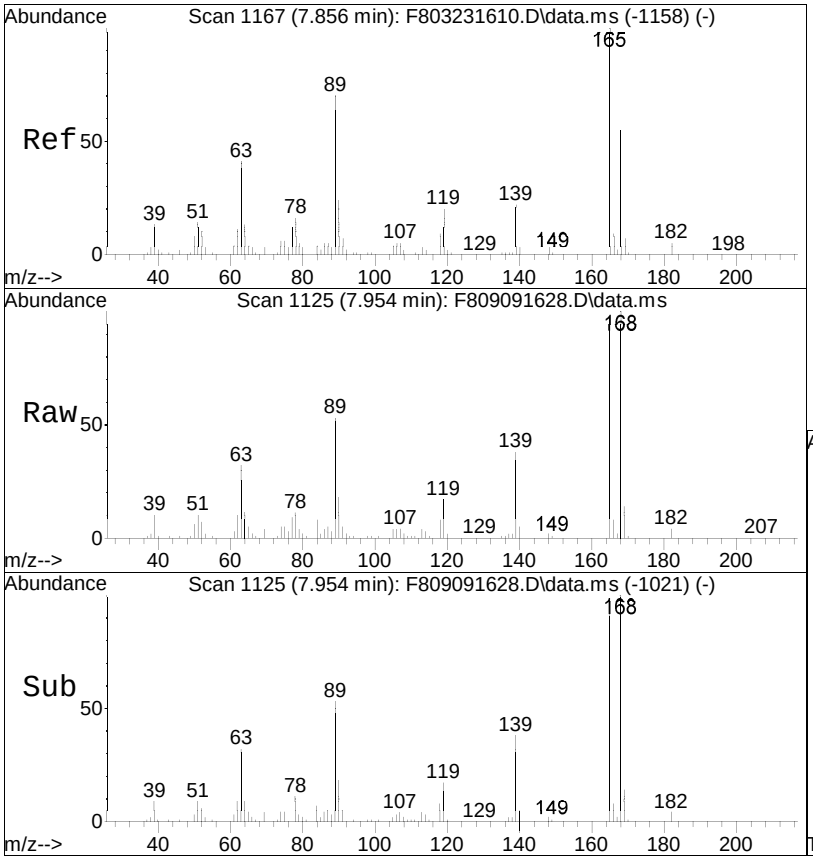


#54
2,3,4,6-Tetrachlorophenol
Concen: 10.31 ug/mL
RT: 8.098 min Scan# 1155
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:232 Resp: 212252

Ion	Ratio	Lower	Upper
232	100		
131	48.3	43.1	64.7
230	78.0	63.0	94.6

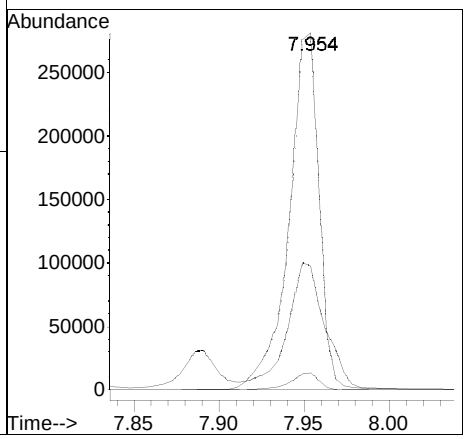


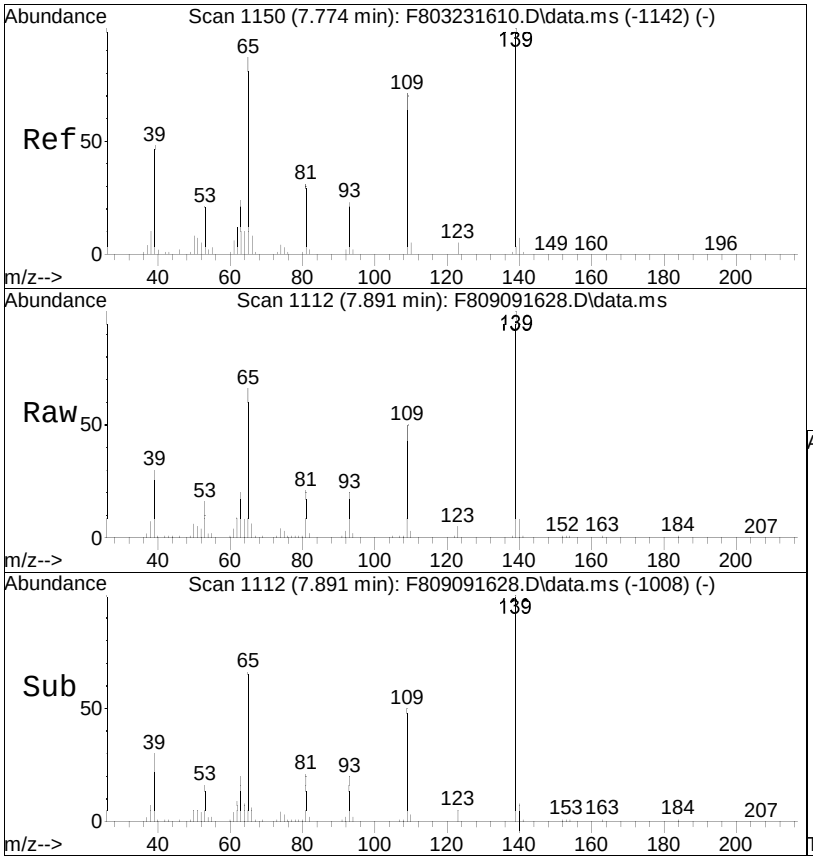


#55
2,4-Dinitrotoluene
Concen: 10.31 ug/mL
RT: 7.954 min Scan# 1125
Delta R.T. -0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:165 Resp: 341436

Ion	Ratio	Lower	Upper
165	100		
63	43.8	30.9	46.3
182	4.6	3.5	5.3

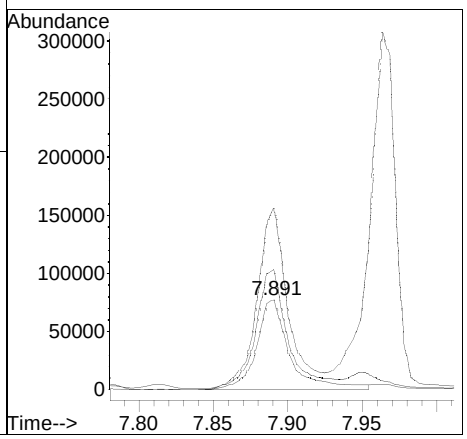


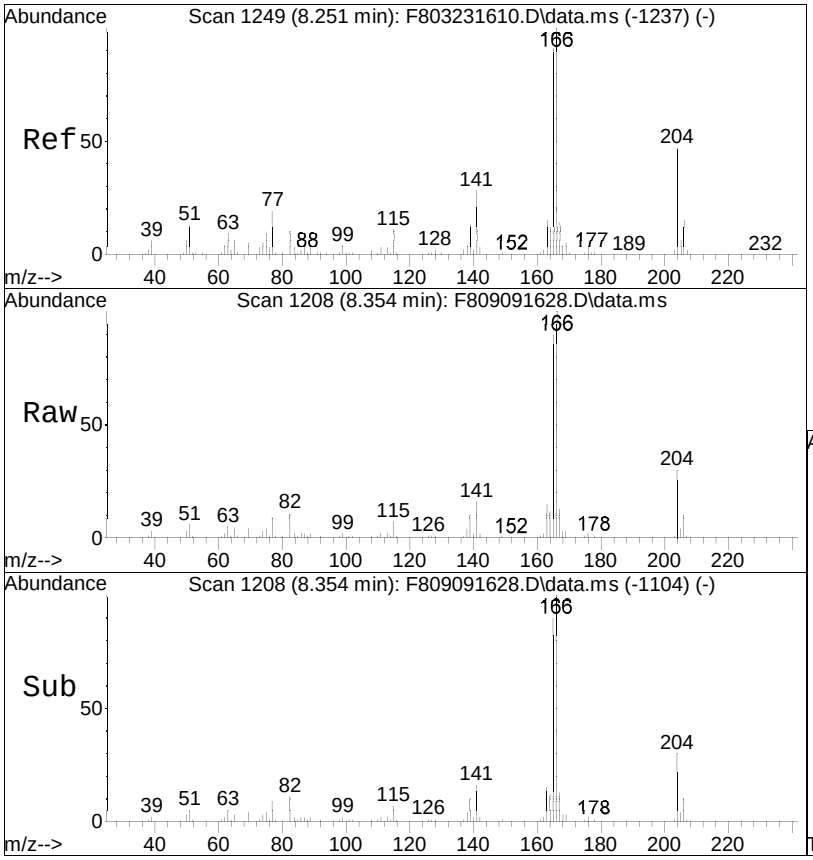


#56
4-Nitrophenol
Concen: 10.90 ug/mL
RT: 7.891 min Scan# 1112
Delta R.T. -0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:109 Resp: 121913

Ion	Ratio	Lower	Upper
109	100		
139	187.1	149.7	224.5
65	123.7	107.3	160.9

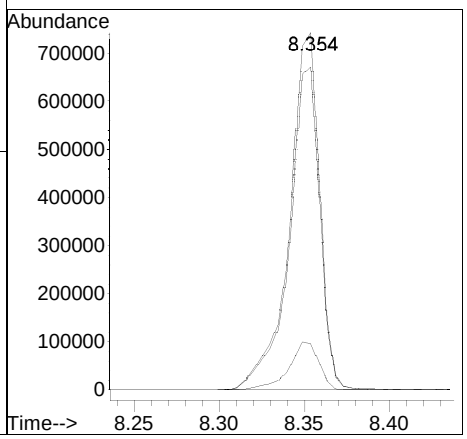


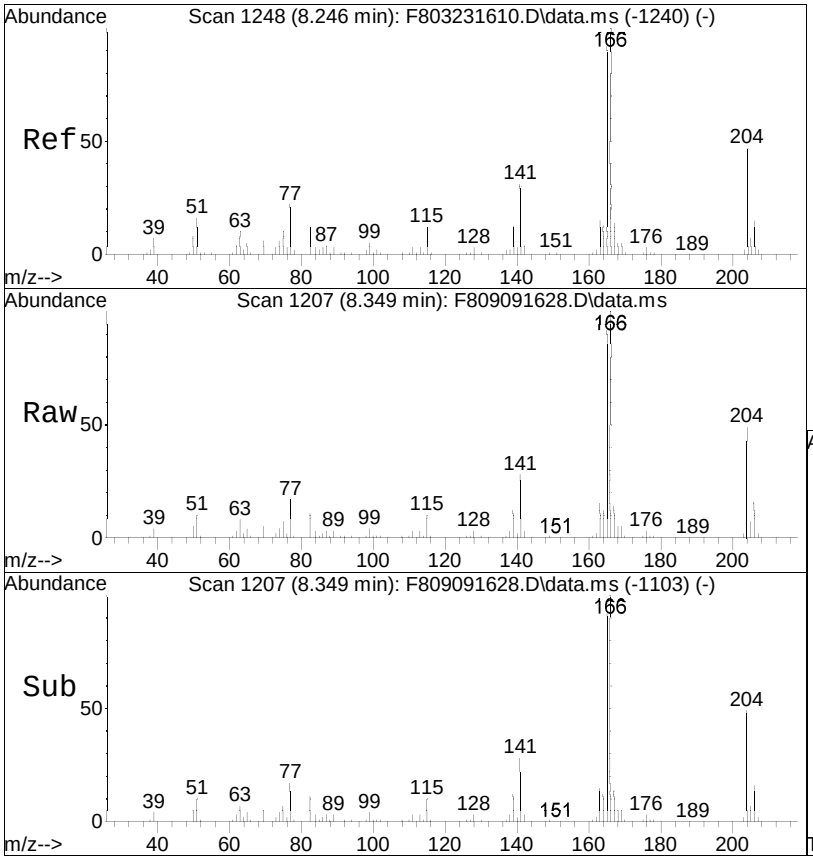


#57
Fluorene
Concen: 8.27 ug/mL
RT: 8.354 min Scan# 1208
Delta R.T. 0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:166 Resp: 924531

Ion	Ratio	Lower	Upper
166	100		
165	91.0	72.9	109.3
167	13.6	10.9	16.3

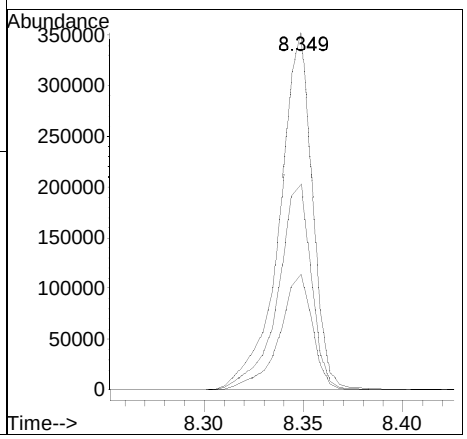


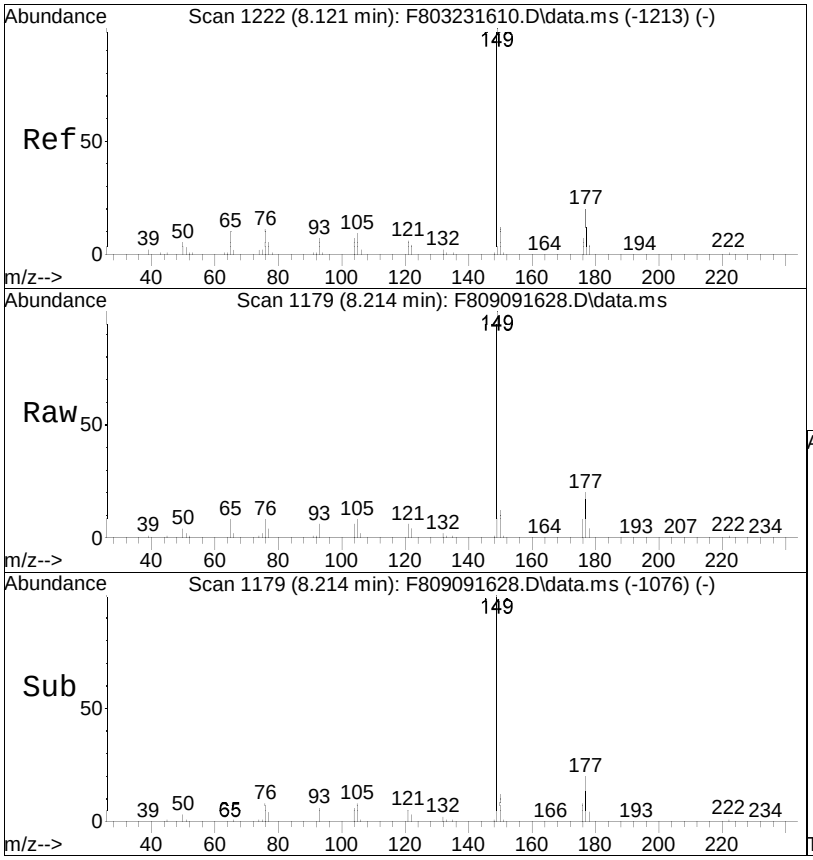


#58
4-Chlorophenyl-phenylether
Concen: 8.21 ug/mL
RT: 8.349 min Scan# 1207
Delta R.T. 0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:204 Resp: 410791

Ion	Ratio	Lower	Upper
204	100		
206	32.7	25.9	38.9
141	58.6	46.2	69.4

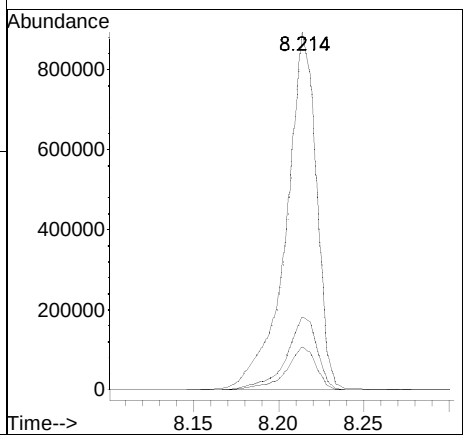


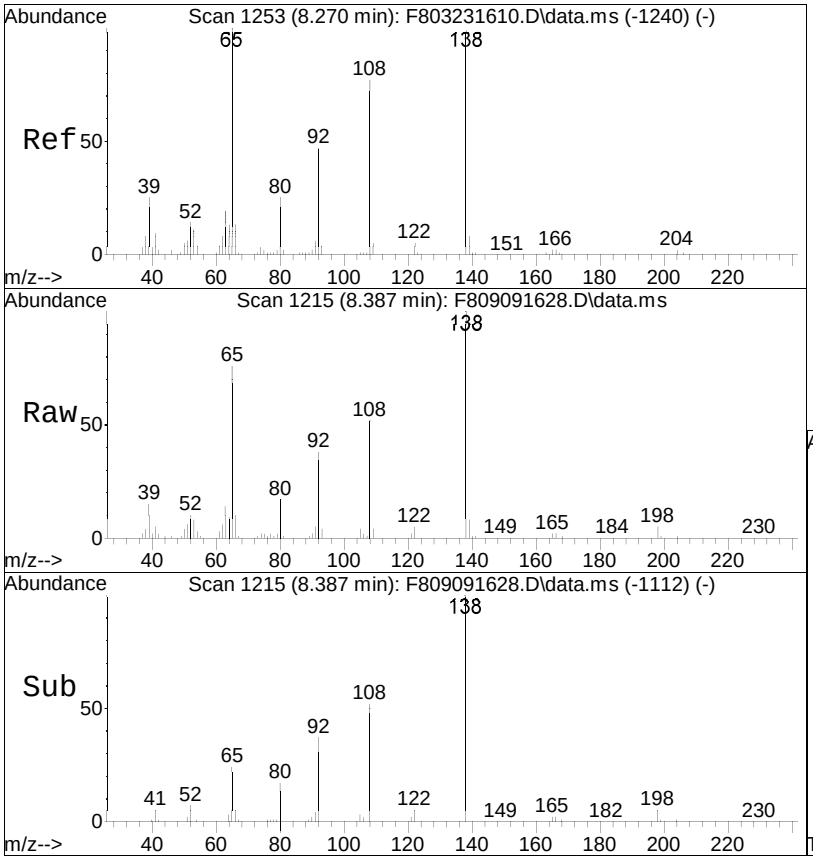


#59
Diethylphthalate
Concen: 9.74 ug/mL
RT: 8.214 min Scan# 1179
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:149 Resp: 1105842

Ion	Ratio	Lower	Upper
149	100		
177	20.9	16.6	24.8
150	12.0	9.8	14.6

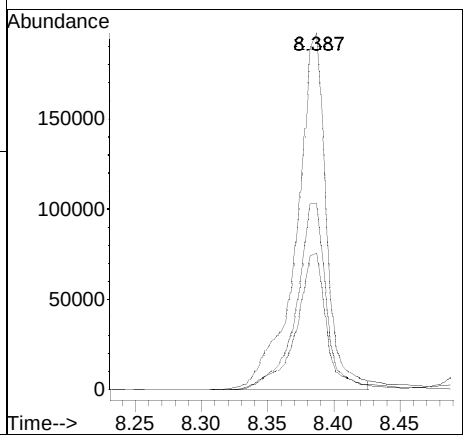


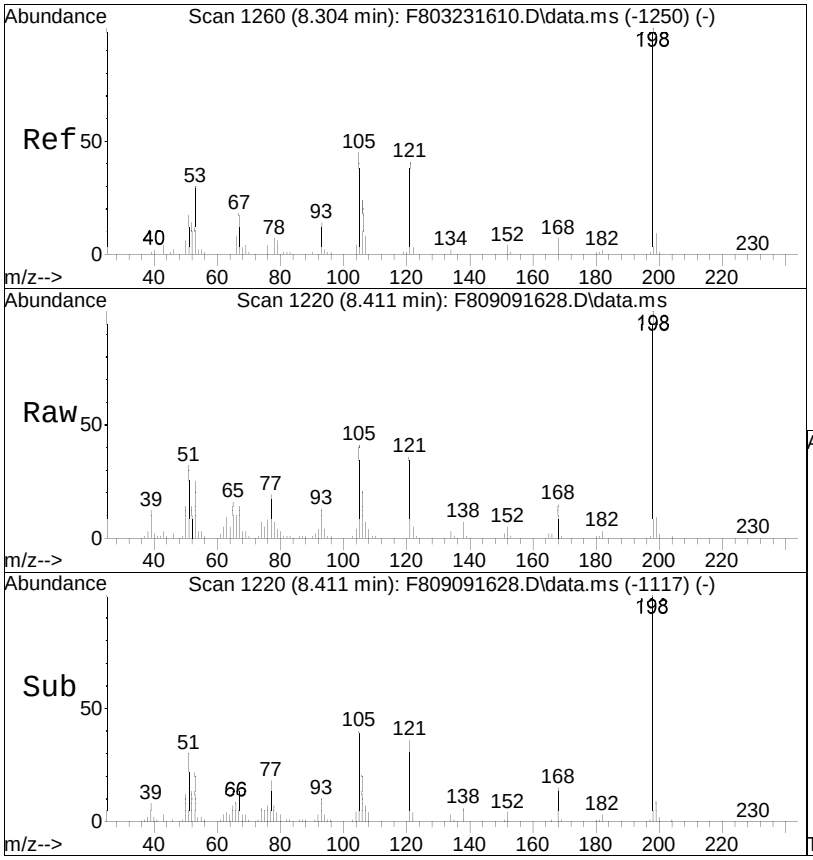


#60
4-Nitroaniline
Concen: 10.12 ug/mL
RT: 8.387 min Scan# 1215
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:138 Resp: 308681

Ion	Ratio	Lower	Upper
138	100		
92	40.5	32.7	49.1
108	54.9	45.8	68.6

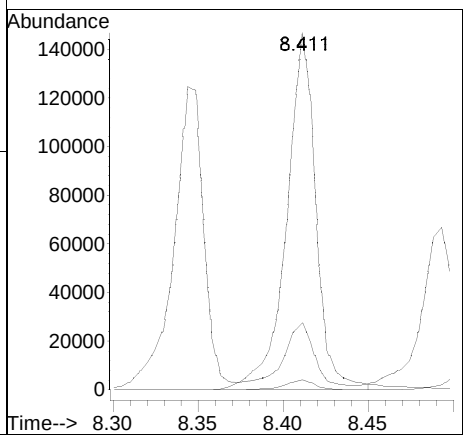


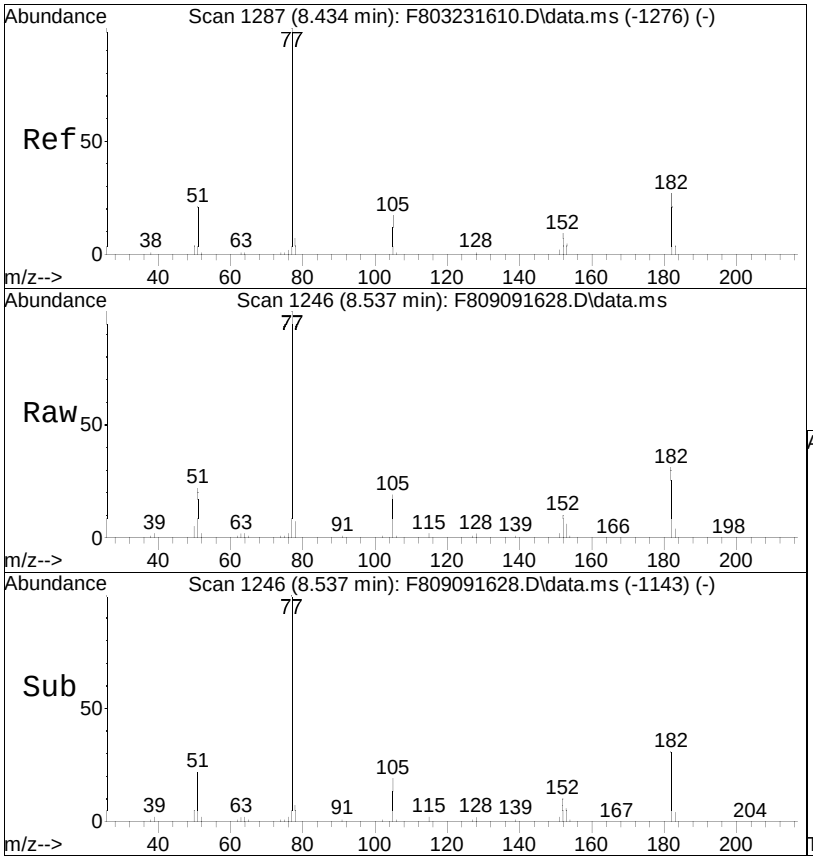


#62
4,6-Dinitro-2-methylphenol
Concen: 10.29 ug/mL
RT: 8.411 min Scan# 1220
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:198 Resp: 176616

Ion	Ratio	Lower	Upper
198	100		
182	2.8	2.2	3.2
77	17.1	16.8	25.2

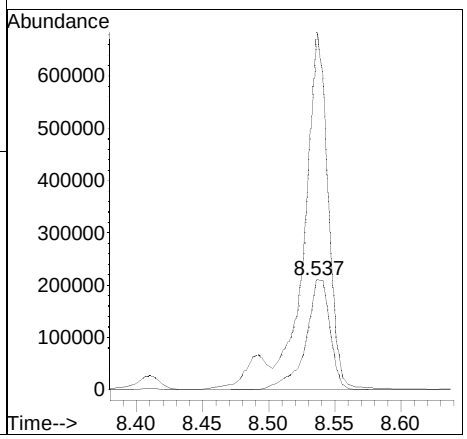


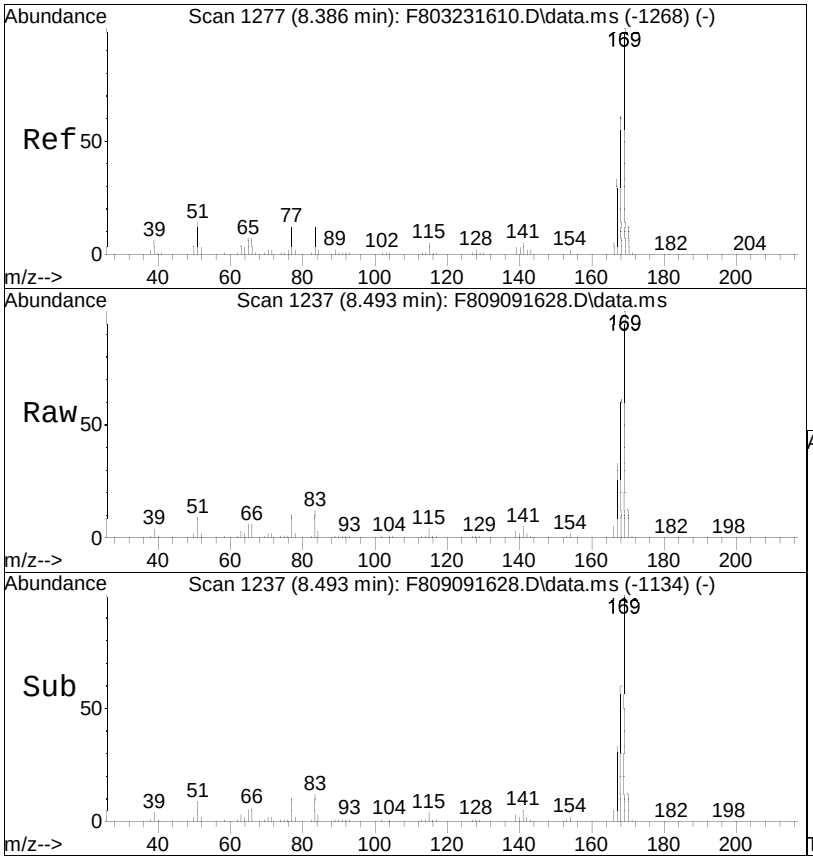


#63
Azobenzene
Concen: 8.96 ug/mL
RT: 8.537 min Scan# 1246
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:182 Resp: 270533

Ion	Ratio	Lower	Upper
182	100		
77	297.1	54.9	631.7

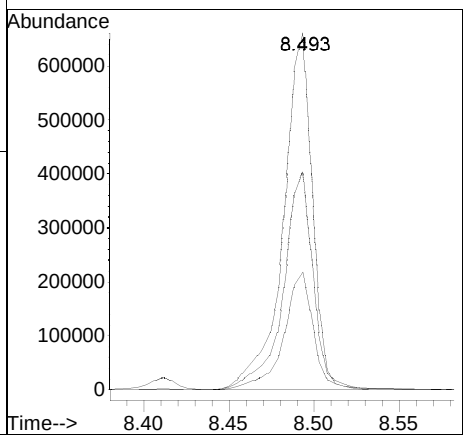


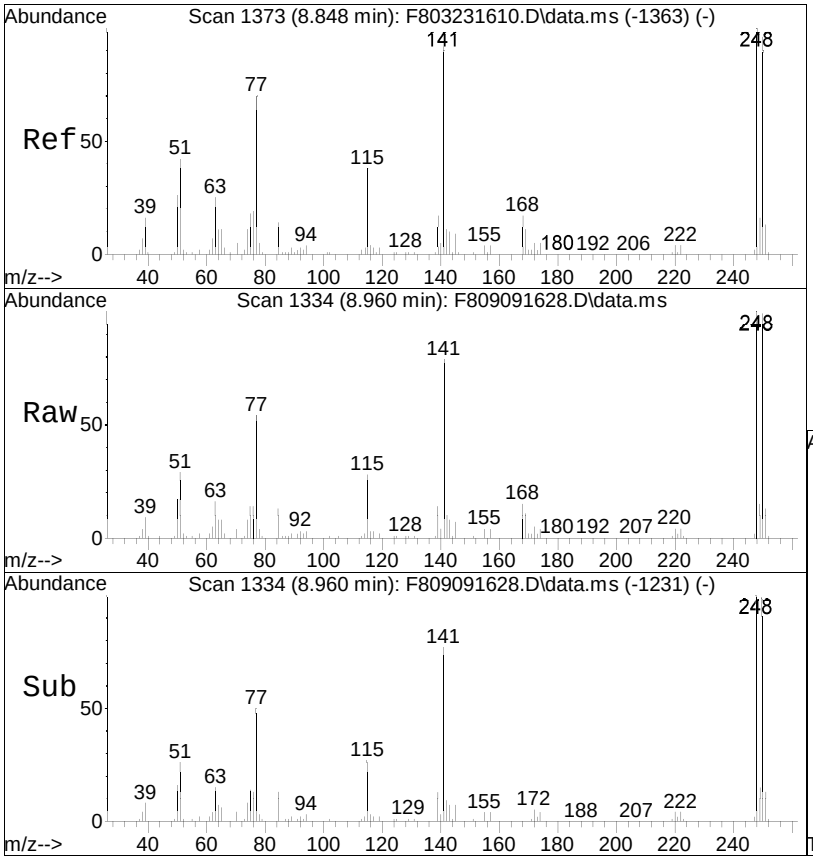


#64
n-Nitrosodiphenylamine
Concen: 9.95 ug/mL
RT: 8.493 min Scan# 1237
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:169 Resp: 786960

Ion	Ratio	Lower	Upper
169	100		
168	61.7	49.4	74.2
167	33.9	26.7	40.1

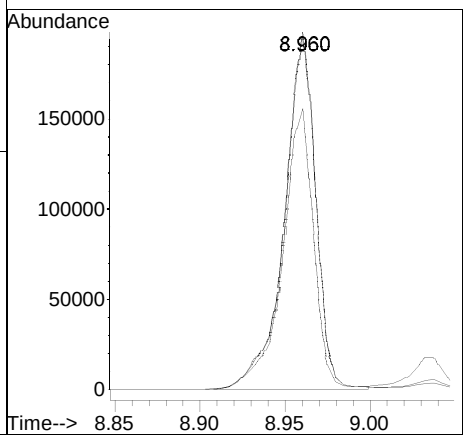


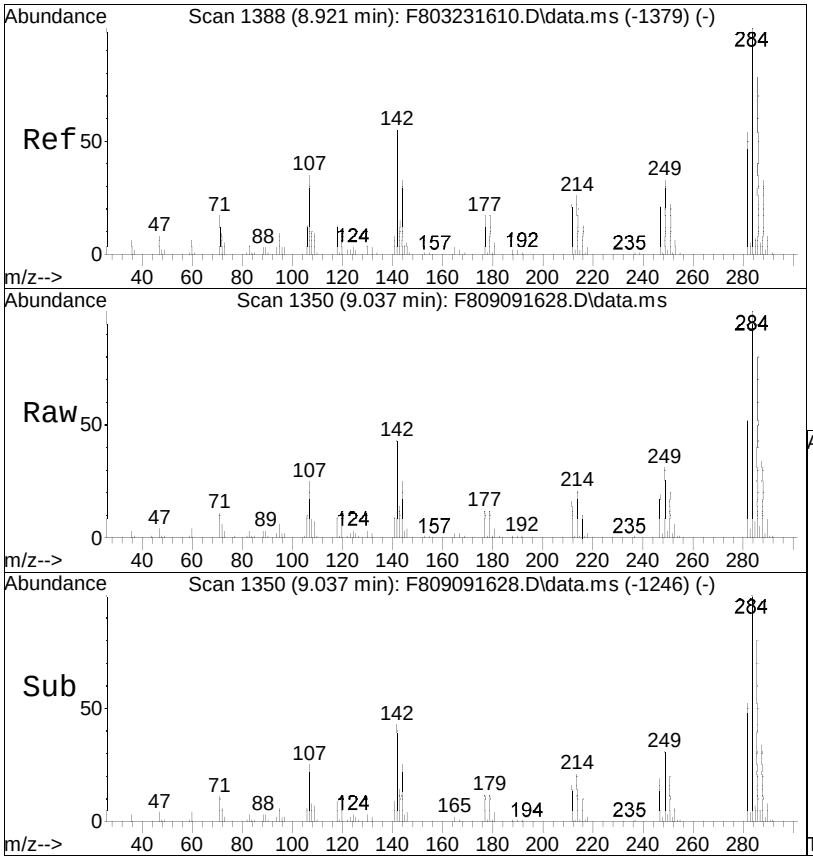


#66
4-Bromophenyl-phenylether
Concen: 9.17 ug/mL
RT: 8.960 min Scan# 1334
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:248 Resp: 253065

Ion	Ratio	Lower	Upper
248	100		
250	97.6	77.3	115.9
141	77.8	61.7	92.5

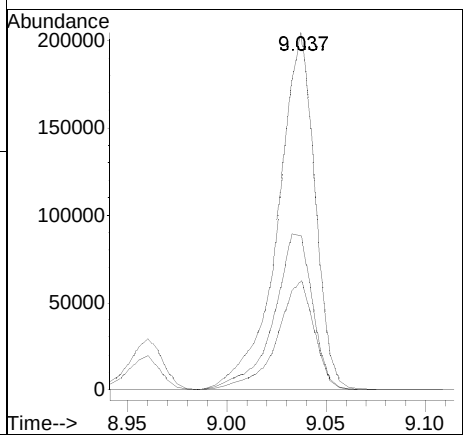


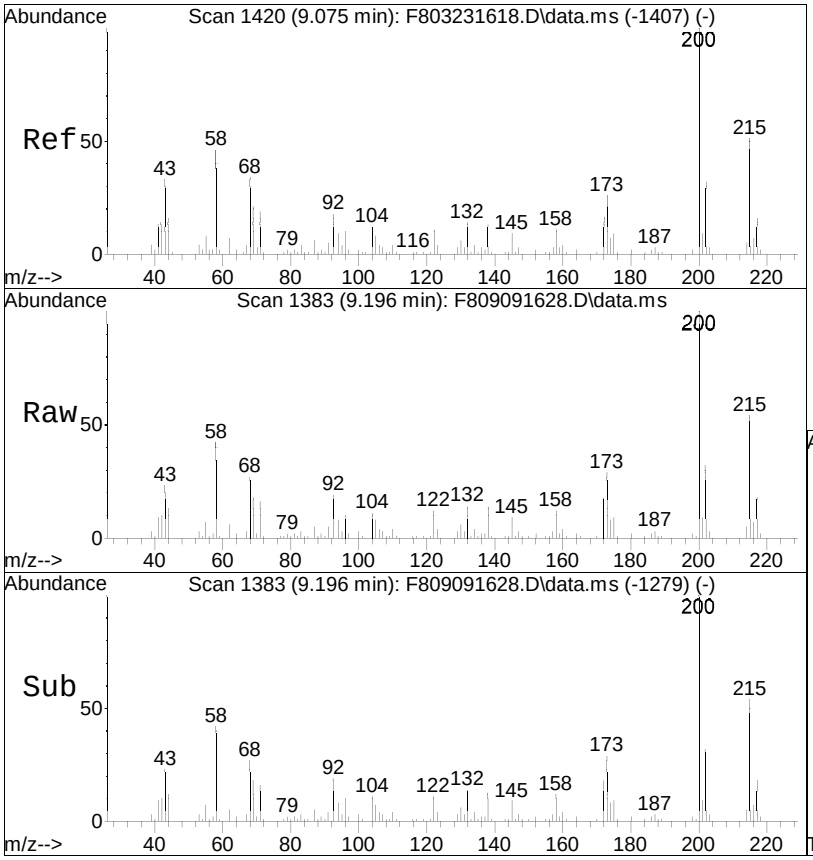


#67
Hexachlorobenzene
Concen: 9.26 ug/mL
RT: 9.037 min Scan# 1350
Delta R.T. -0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:284 Resp: 267266

Ion	Ratio	Lower	Upper
284	100		
142	45.3	37.8	56.6
249	30.7	24.8	37.2

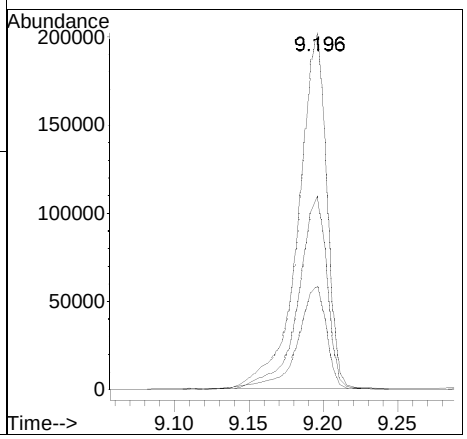


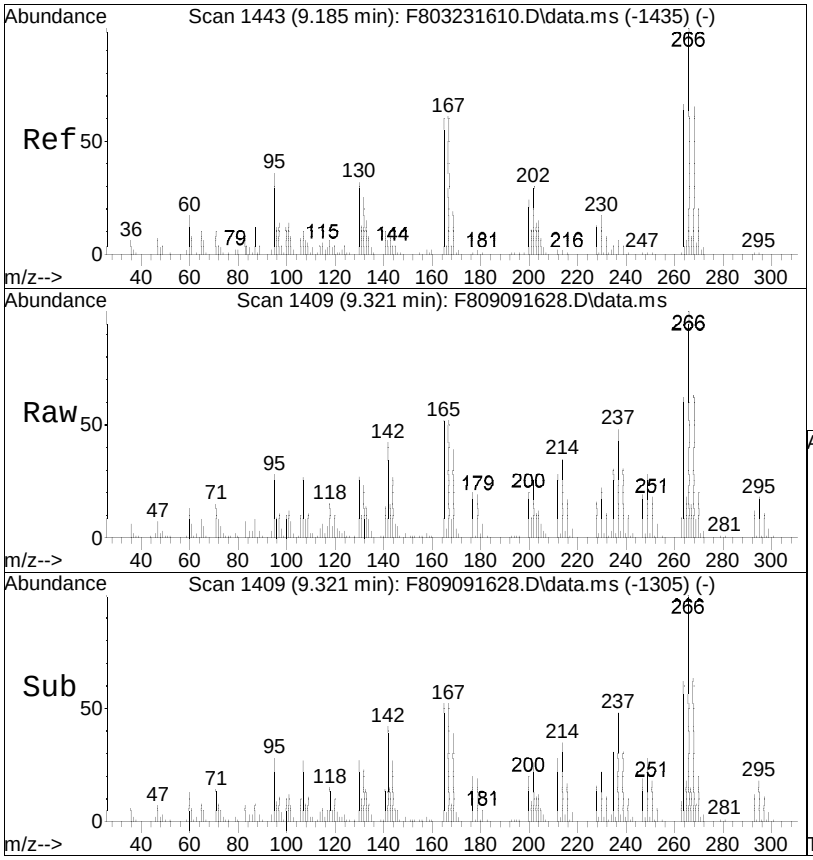


#68
Atrazine
Concen: 8.82 ug/ml
RT: 9.196 min Scan# 1383
Delta R.T. -0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:200 Resp: 268851

Ion	Ratio	Lower	Upper
200	100		
173	30.2	22.4	33.6
215	55.3	43.8	65.6

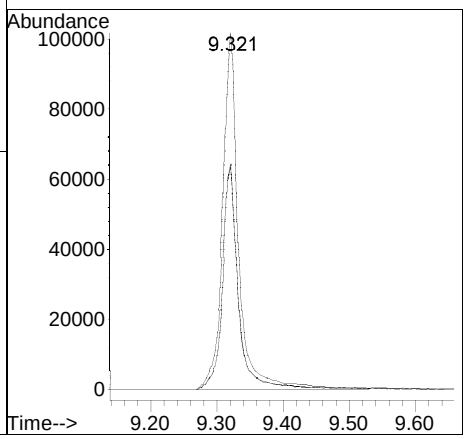


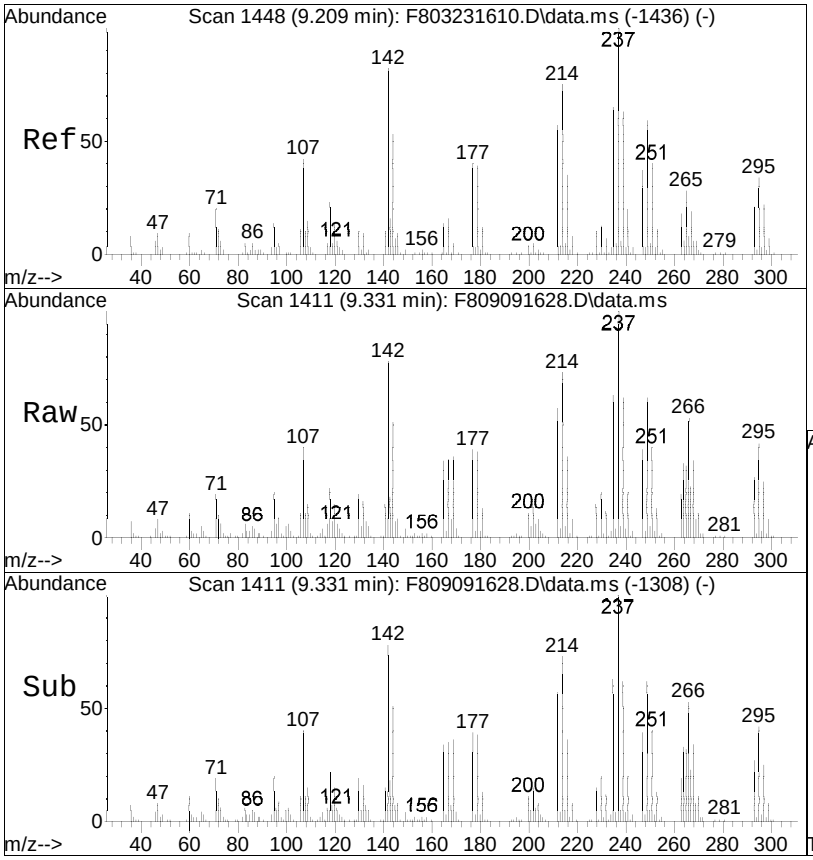


#69
Pentachlorophenol
Concen: 10.69 ug/mL
RT: 9.321 min Scan# 1409
Delta R.T. -0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:266 Resp: 172486

Ion	Ratio	Lower	Upper
266	100		
264	62.3	49.7	74.5
268	62.5	48.1	72.1

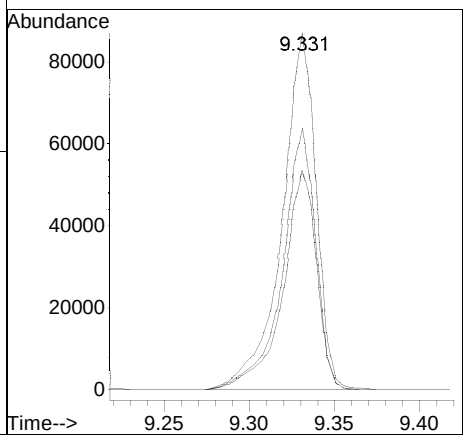


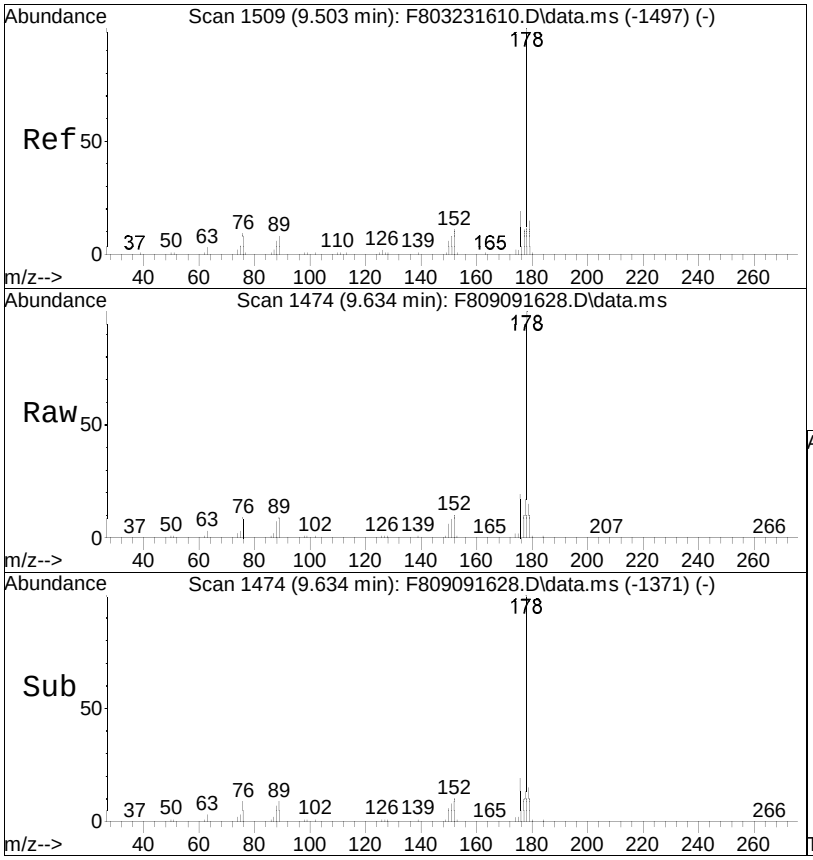


#70
Pentachloronitrobenzene
Concen: 10.54 ug/ml
RT: 9.331 min Scan# 1411
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:237 Resp: 121160

Ion	Ratio	Lower	Upper
237	100		
214	71.2	63.4	95.2
249	60.8	54.9	82.3

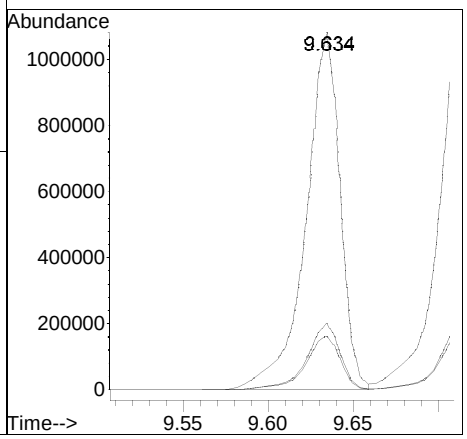


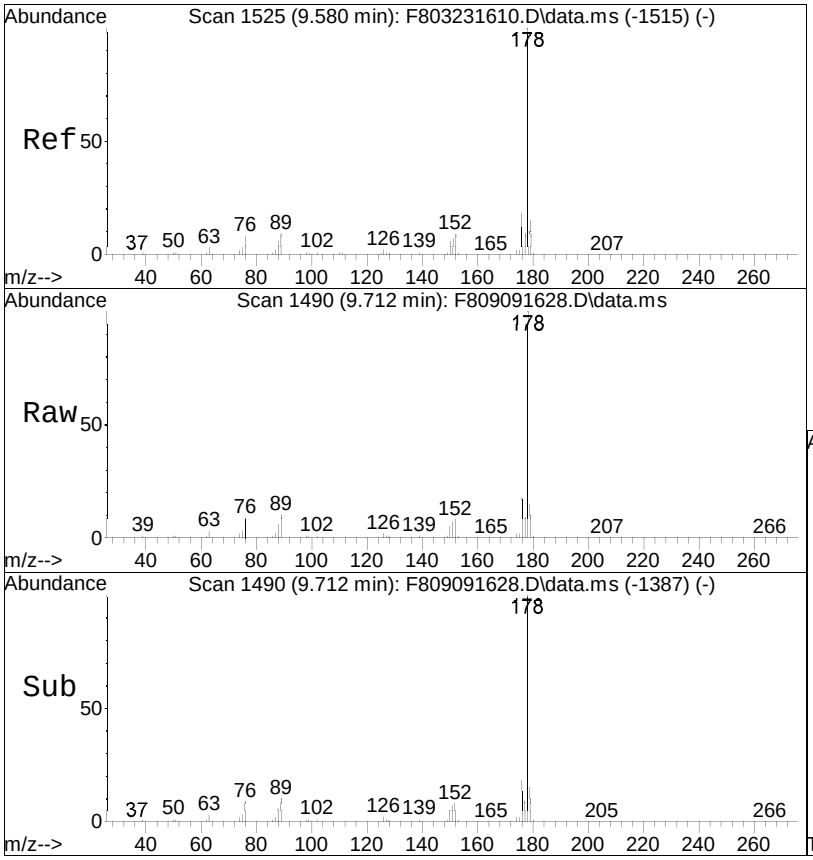


#71
Phenanthrene
Concen: 9.34 ug/mL
RT: 9.634 min Scan# 1474
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:178 Resp: 1510456

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.4	18.6
176	18.3	15.0	22.6

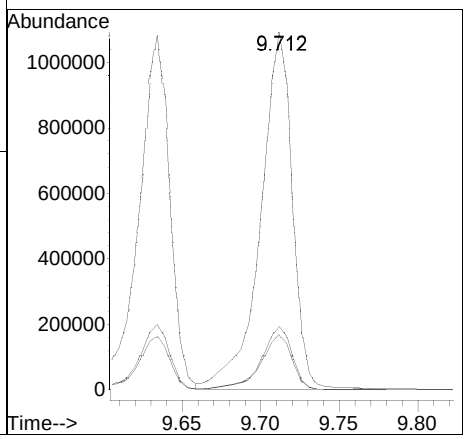


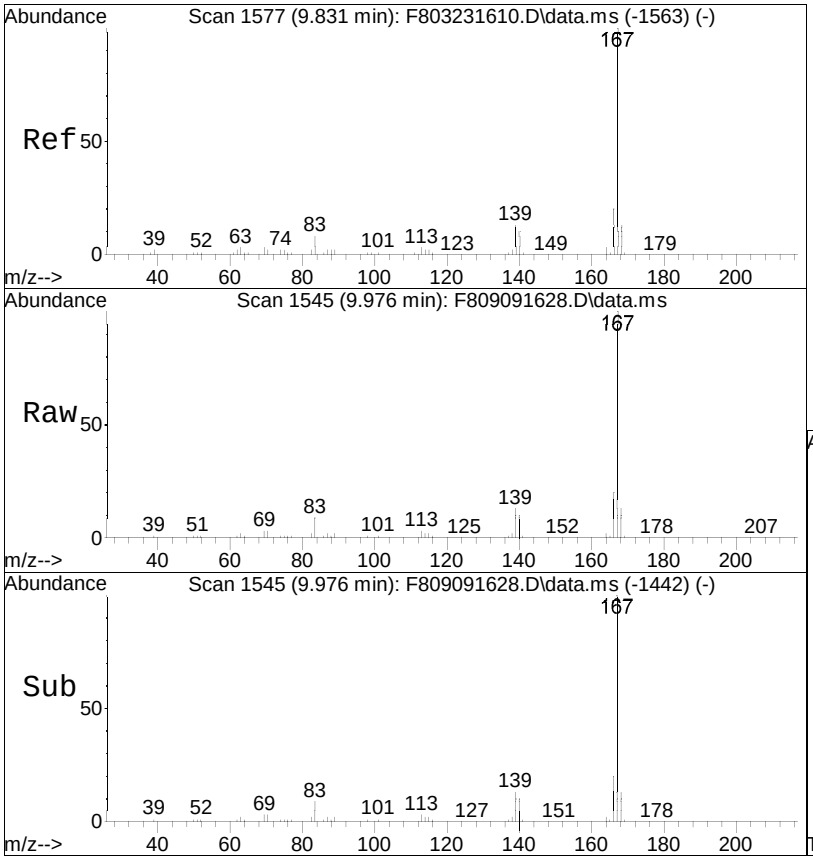


#72
Anthracene
Concen: 9.56 ug/mL M6
RT: 9.712 min Scan# 1490
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:178 Resp: 1527566

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.6	18.8
176	17.2	14.6	22.0

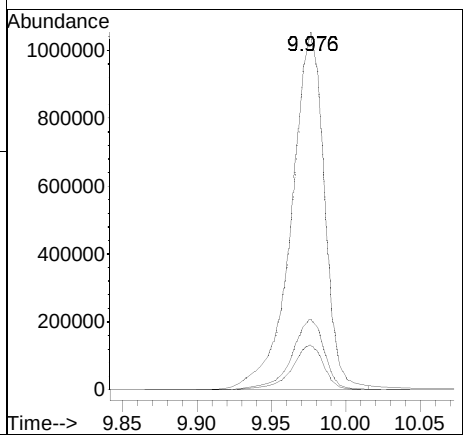


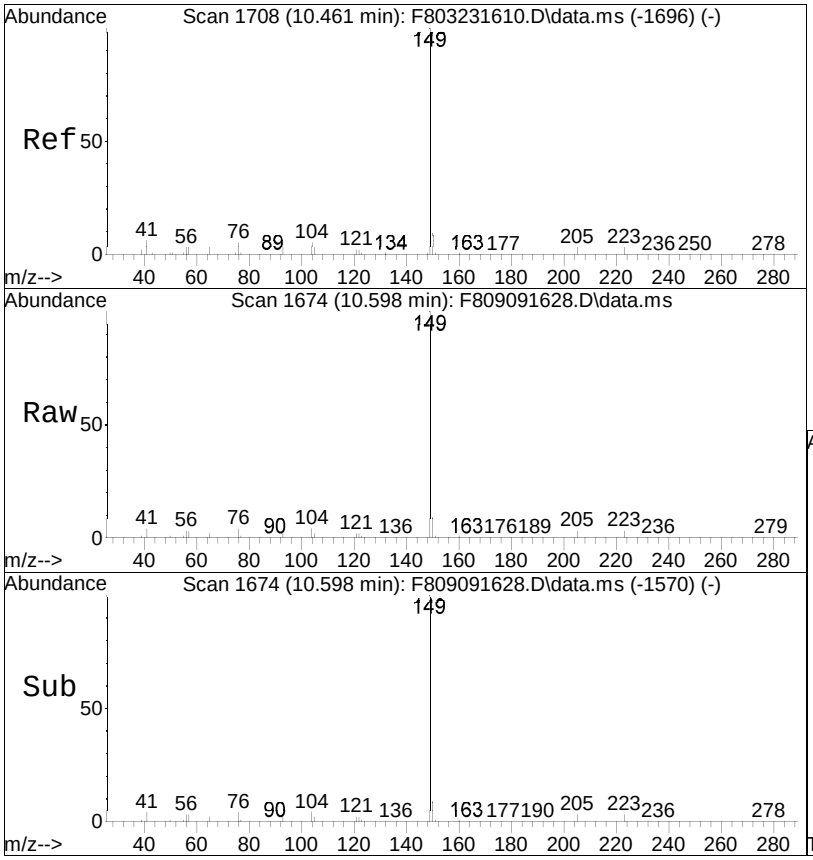


#73
Carbazole
Concen: 10.52 ug/mL
RT: 9.976 min Scan# 1545
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:167 Resp: 1614688

Ion	Ratio	Lower	Upper
167	100		
139	12.5	10.3	15.5
166	19.7	15.9	23.9

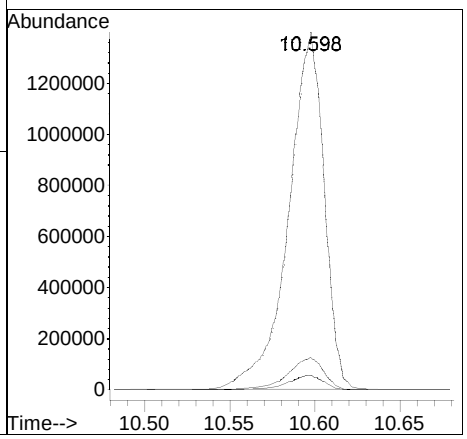


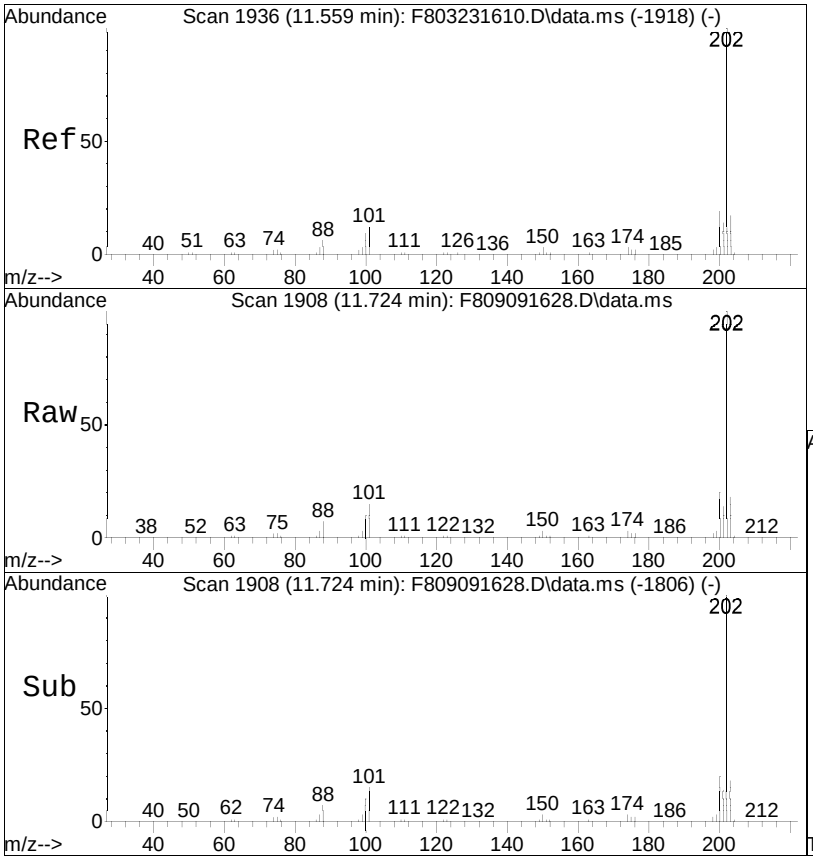


#74
Di-n-butylphthalate
Concen: 10.80 ug/mL
RT: 10.598 min Scan# 1674
Delta R.T. -0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:149 Resp: 2003375

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.2
104	4.1	3.5	5.3

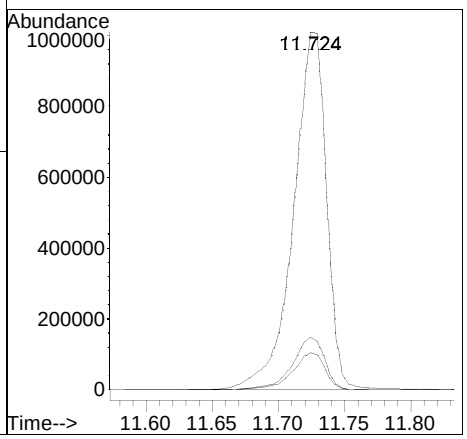


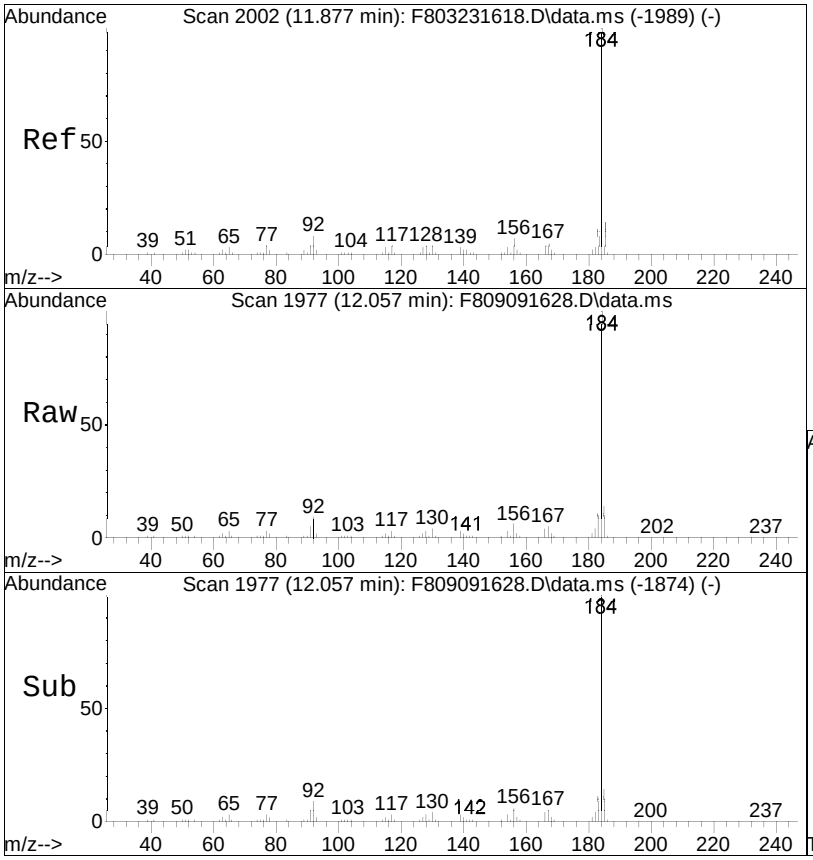


#75
Fluoranthene
Concen: 10.31 ug/mL
RT: 11.724 min Scan# 1908
Delta R.T. -0.010 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:202 Resp: 1724567

Ion	Ratio	Lower	Upper
202	100		
101	14.7	13.4	20.2
100	10.5	9.4	14.2

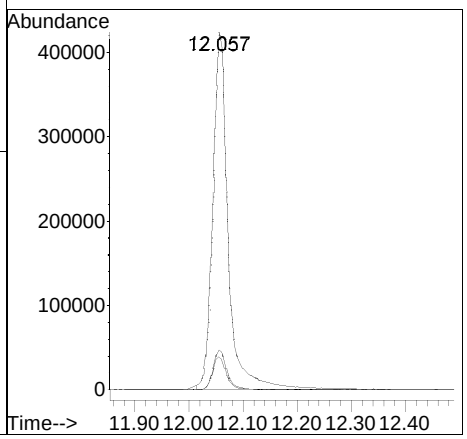


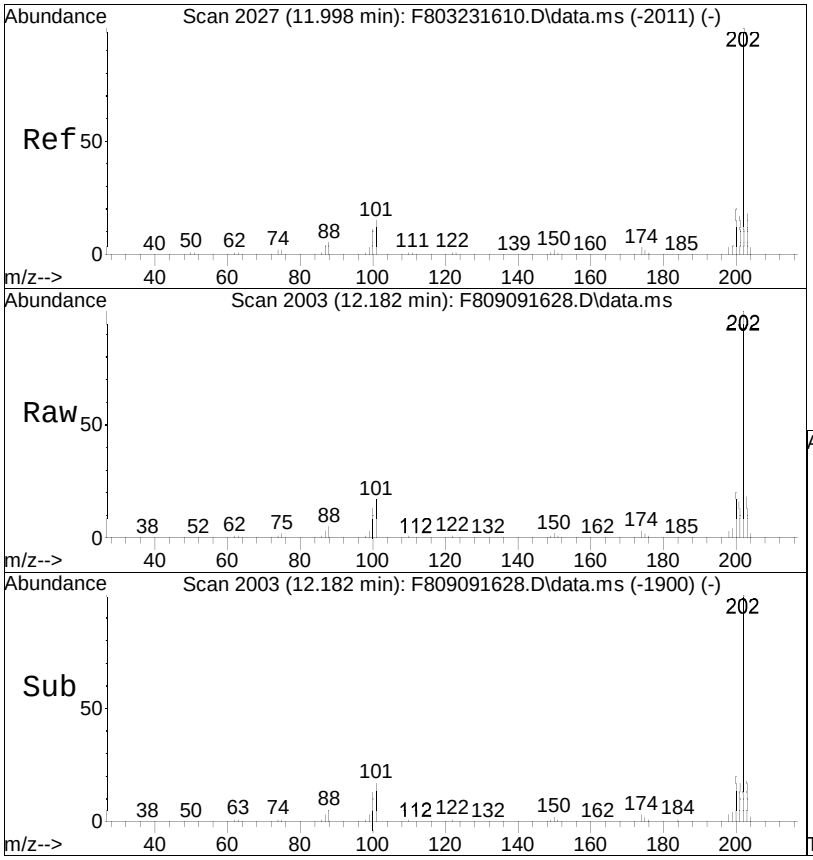


#77
Benzidine
Concen: 7.07 ug/mL
RT: 12.057 min Scan# 1977
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:184 Resp: 798905

Ion	Ratio	Lower	Upper
184	100		
183	10.8	9.0	13.4
92	8.9	7.4	11.2

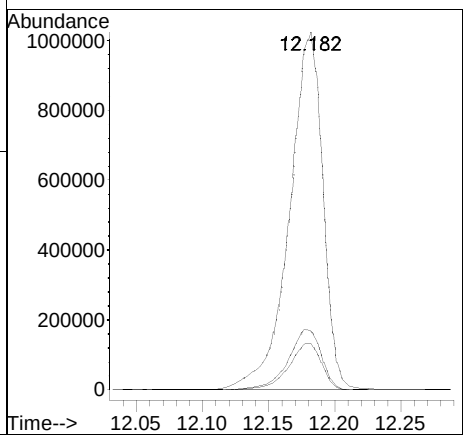


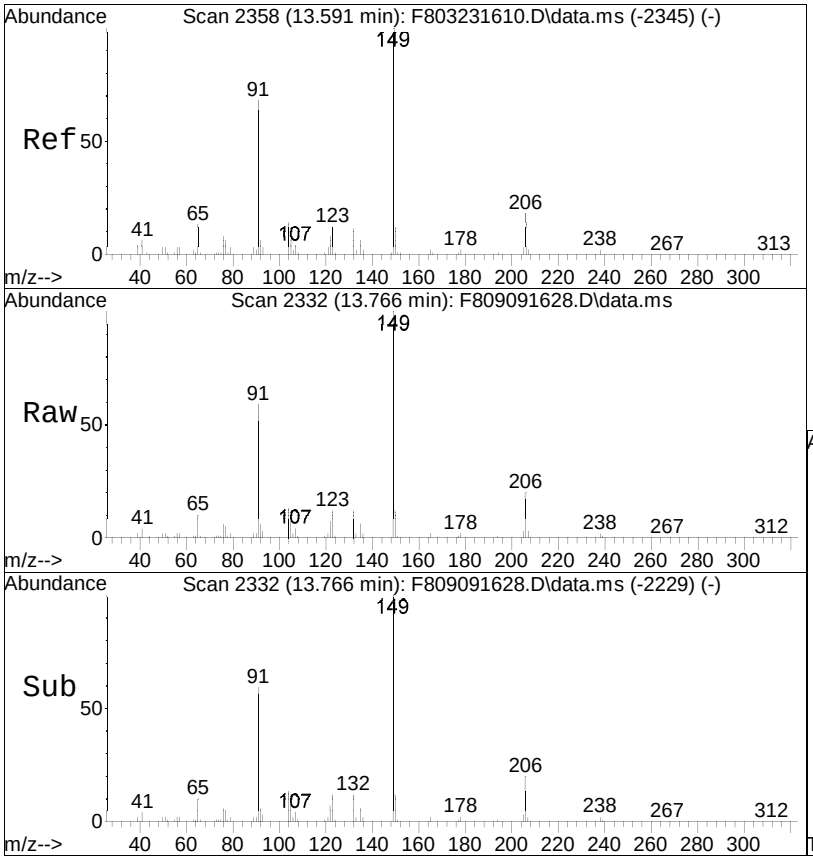


#78
Pyrene
Concen: 10.40 ug/mL
RT: 12.182 min Scan# 2003
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:202 Resp: 1777026

Ion	Ratio	Lower	Upper
202	100		
101	17.2	14.9	22.3
100	13.2	11.4	17.2

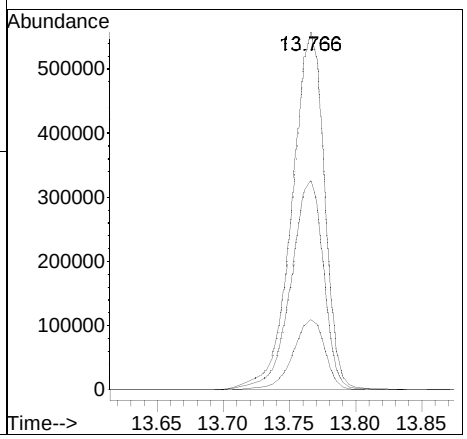


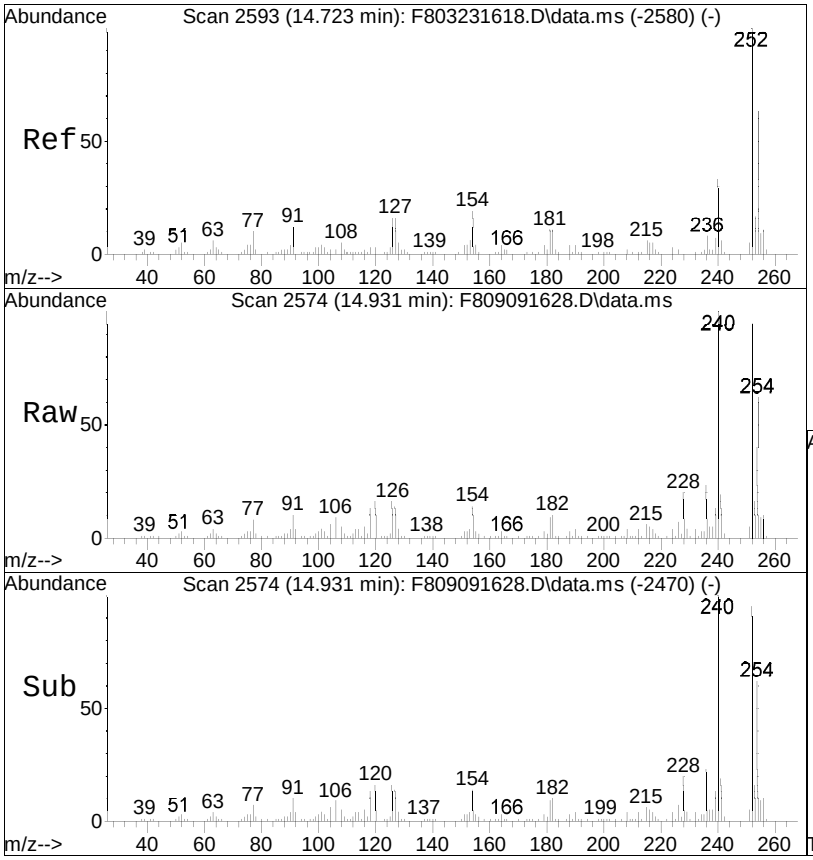


#80
Butylbenzylphthalate
Concen: 11.29 ug/mL
RT: 13.766 min Scan# 2332
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:149 Resp: 946473

Ion	Ratio	Lower	Upper
149	100		
91	59.3	50.8	76.2
206	19.6	15.0	22.4

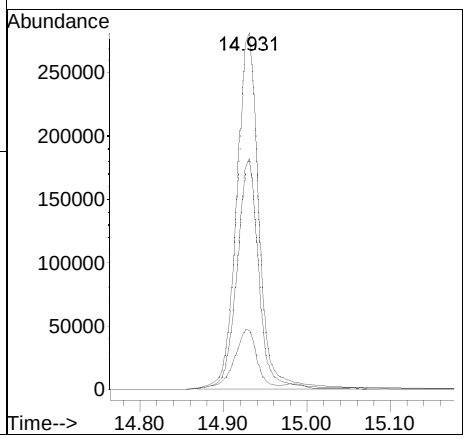


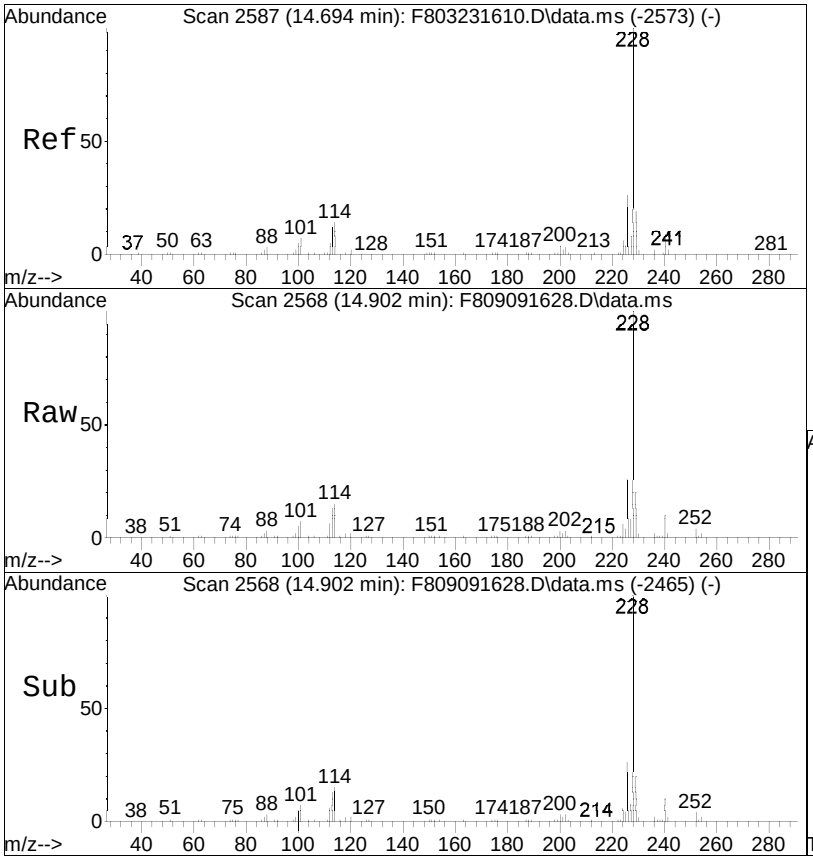


#81
3,3'-Dichlorobenzidine
Concen: 9.31 ug/mL M4
RT: 14.931 min Scan# 2574
Delta R.T. -0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:252 Resp: 522066

Ion	Ratio	Lower	Upper
252	100		
254	63.4	52.0	78.0
126	17.9	13.6	20.4

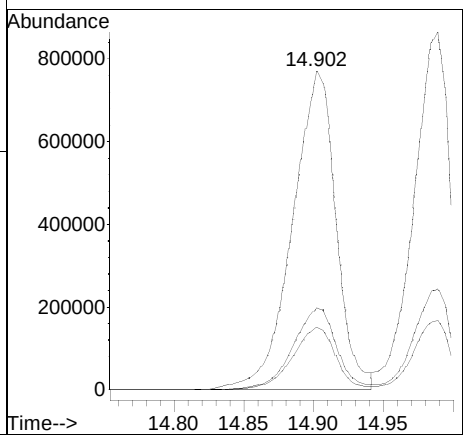


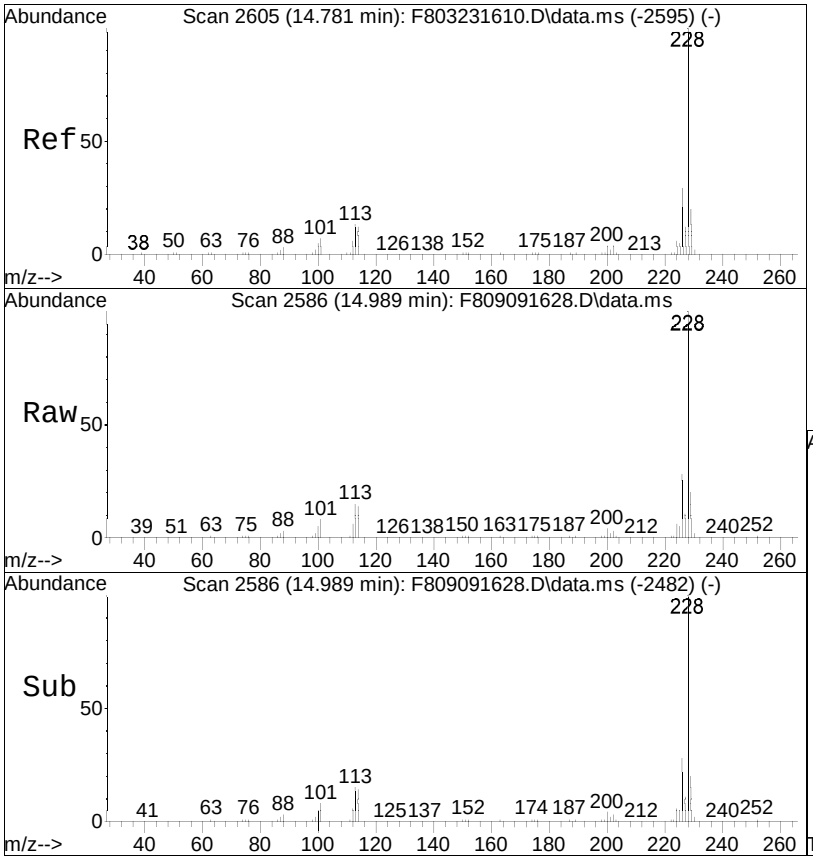


#82
Benz[a]anthracene
Concen: 10.29 ug/mL M6
RT: 14.902 min Scan# 2568
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:228 Resp: 1666302

Ion	Ratio	Lower	Upper
228	100		
229	19.9	15.9	23.9
226	26.3	21.2	31.8

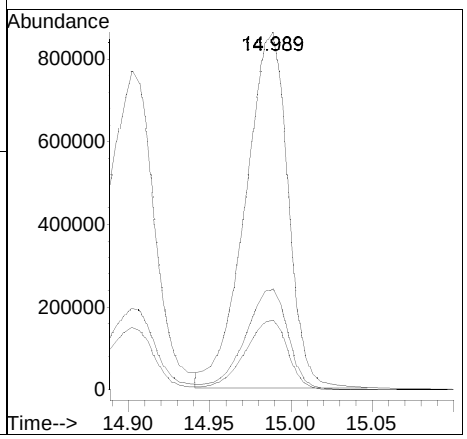


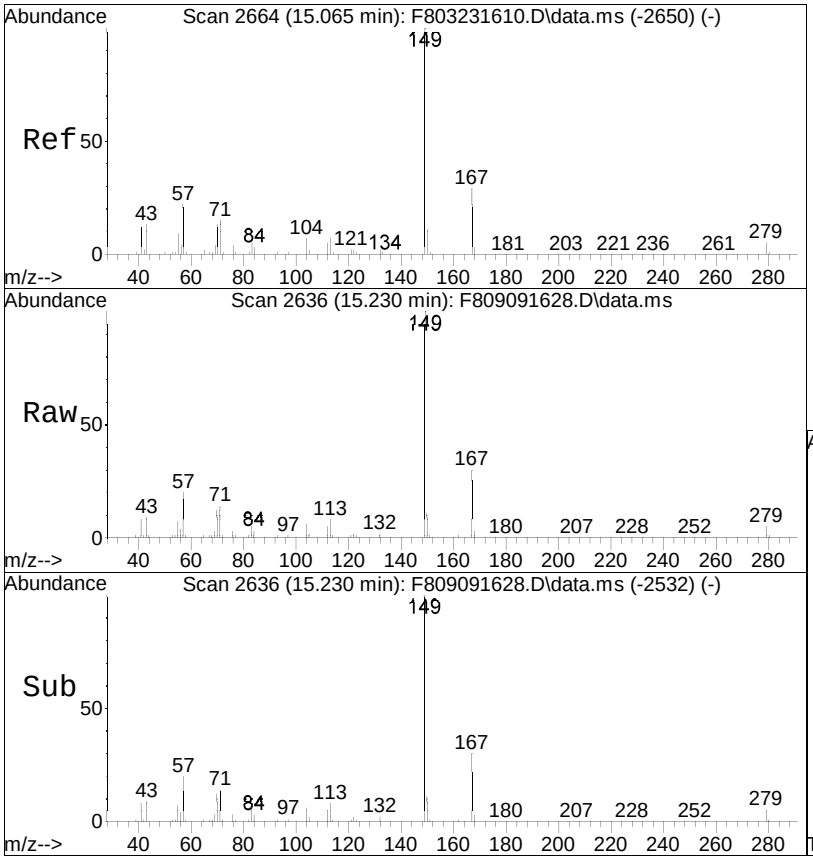


#83
Chrysene
Concen: 10.40 ug/mL M4
RT: 14.989 min Scan# 2586
Delta R.T. -0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:228 Resp: 1563917

Ion	Ratio	Lower	Upper
228	100		
226	27.9	23.7	35.5
229	19.4	15.8	23.8

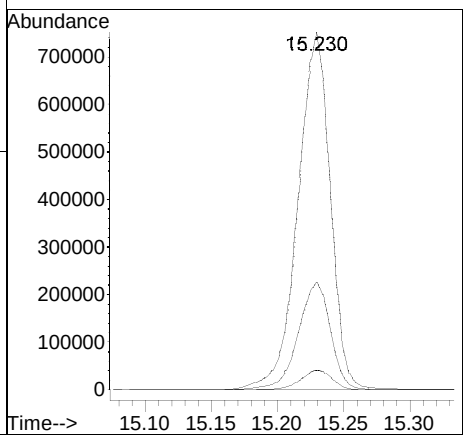


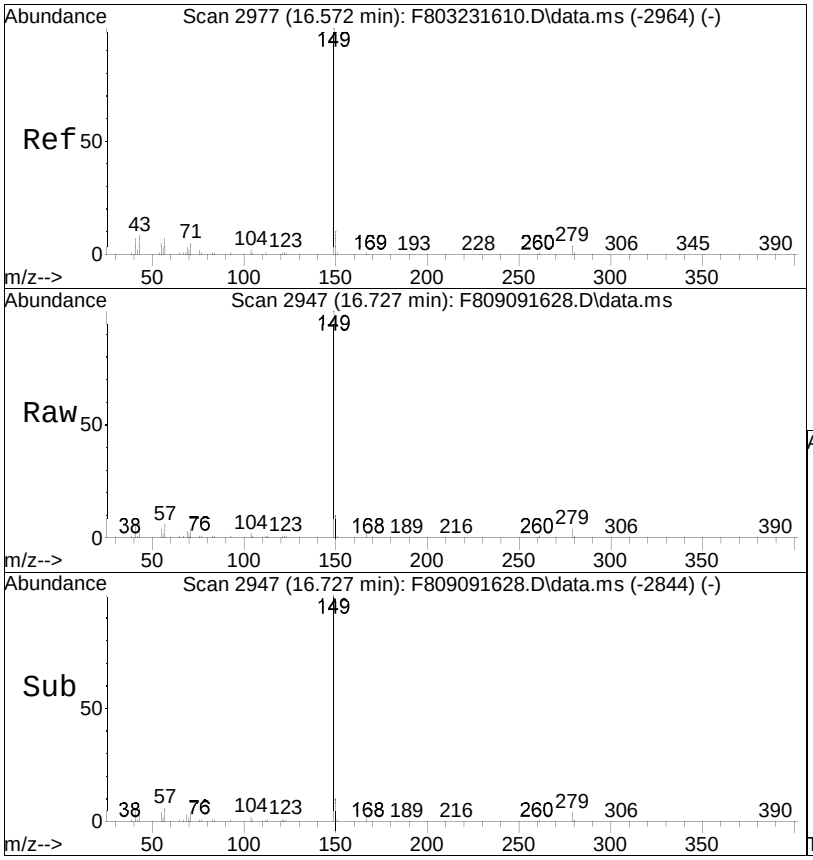


#84
bis(2-Ethylhexyl)phthalate
Concen: 11.44 ug/mL
RT: 15.230 min Scan# 2636
Delta R.T. -0.000 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:149 Resp: 1261796

Ion	Ratio	Lower	Upper
149	100		
167	30.3	23.8	35.6
279	5.5	4.0	6.0

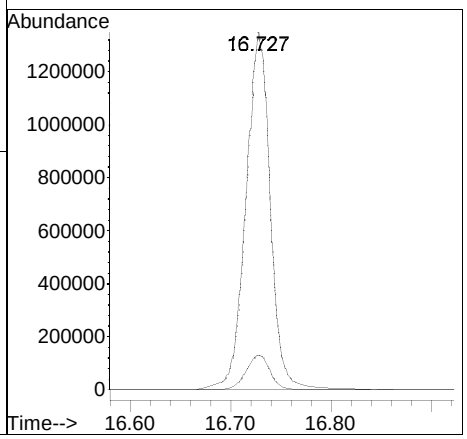


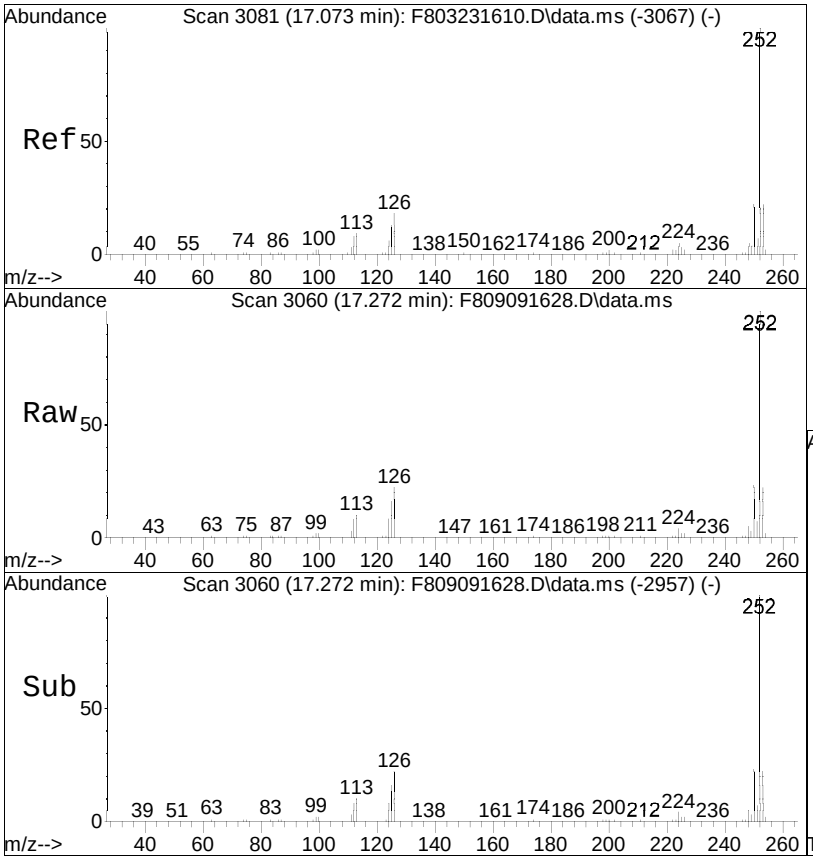


#86
Di-n-octylphthalate
Concen: 11.23 ug/mL M4
RT: 16.727 min Scan# 2947
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:149 Resp: 2248725

Ion	Ratio	Lower	Upper
149	100		
150	9.3	8.1	12.1

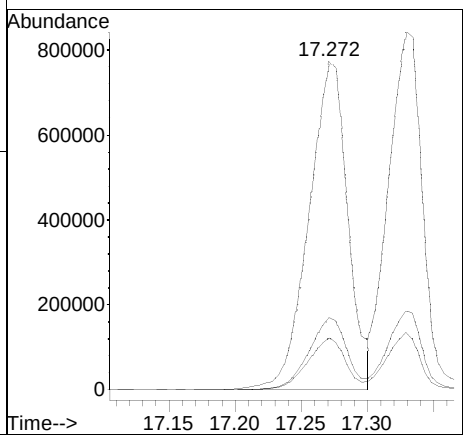


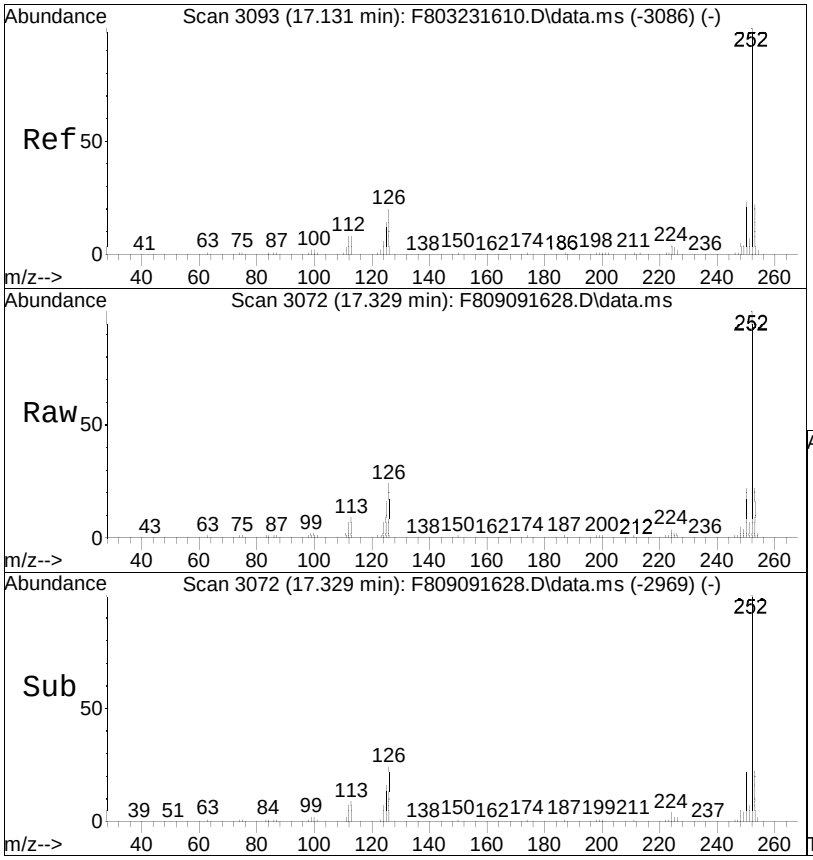


#87
Benzo[b]fluoranthene
Concen: 10.25 ug/mL
RT: 17.272 min Scan# 3060
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:252 Resp: 1576822

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	15.9	13.7	20.5

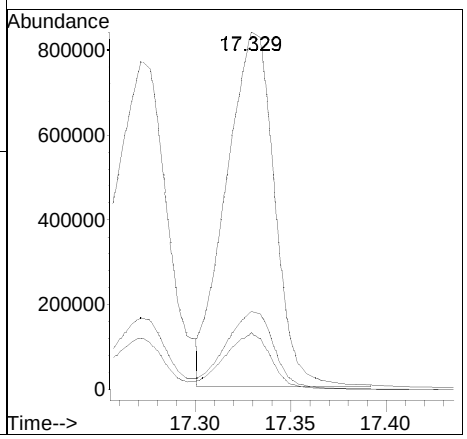


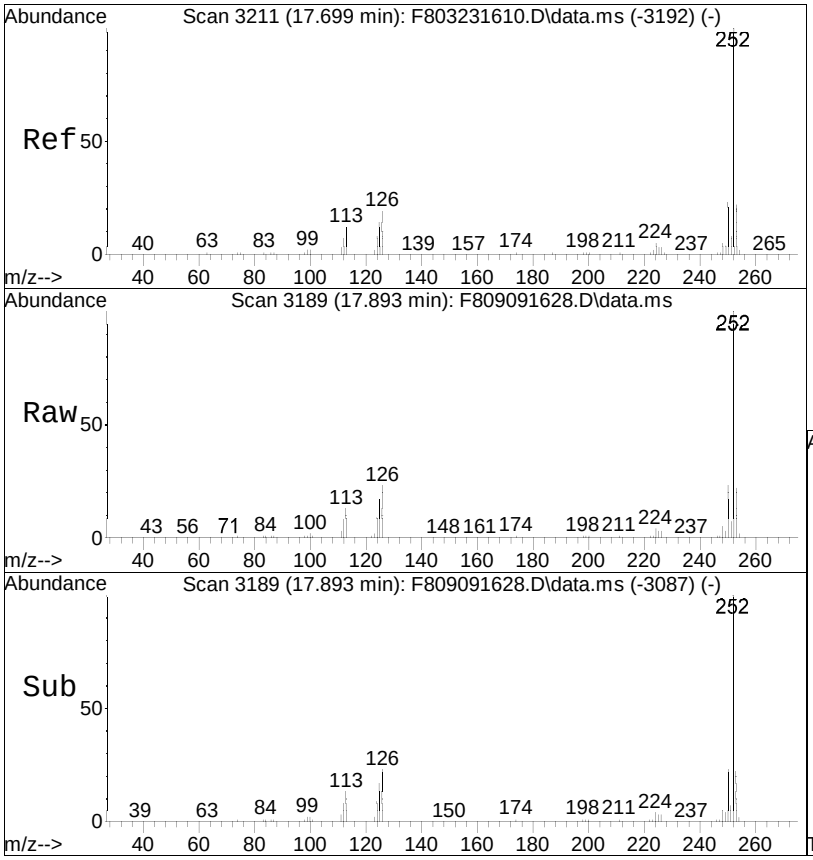


#88
Benzo[k]fluoranthene
Concen: 10.49 ug/mL M4
RT: 17.329 min Scan# 3072
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:252 Resp: 1476043

Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.3	25.9
125	15.0	13.3	19.9

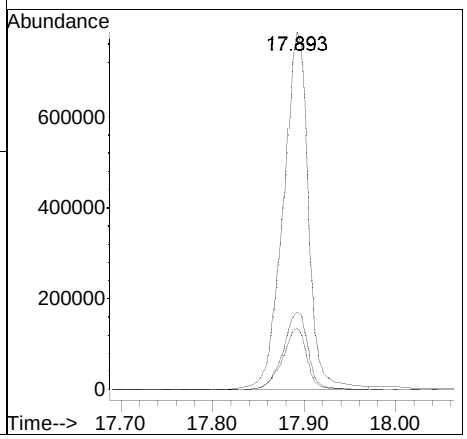


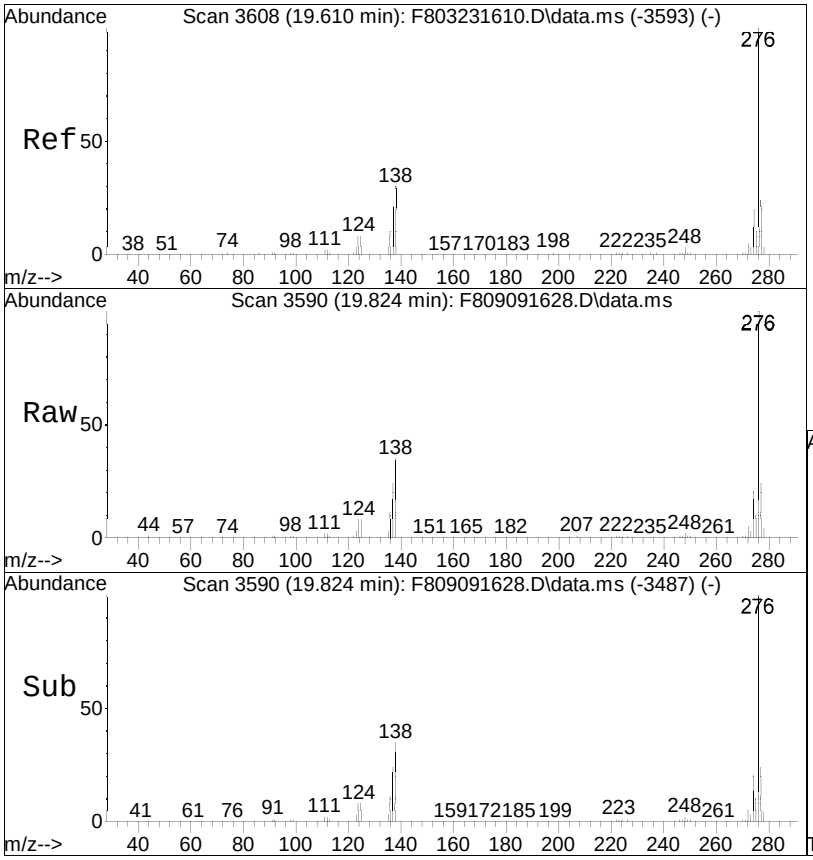


#89
Benzo[a]pyrene
Concen: 10.18 ug/mL
RT: 17.893 min Scan# 3189
Delta R.T. -0.010 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:252 Resp: 1476453

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.0
125	16.8	14.3	21.5

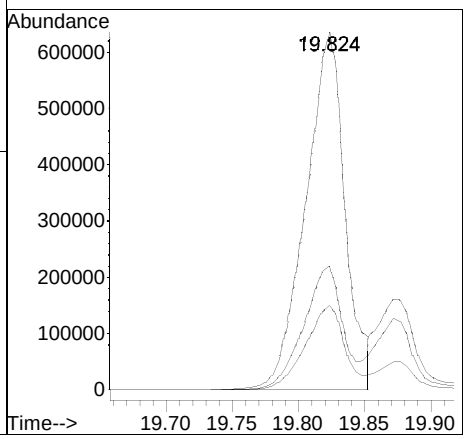


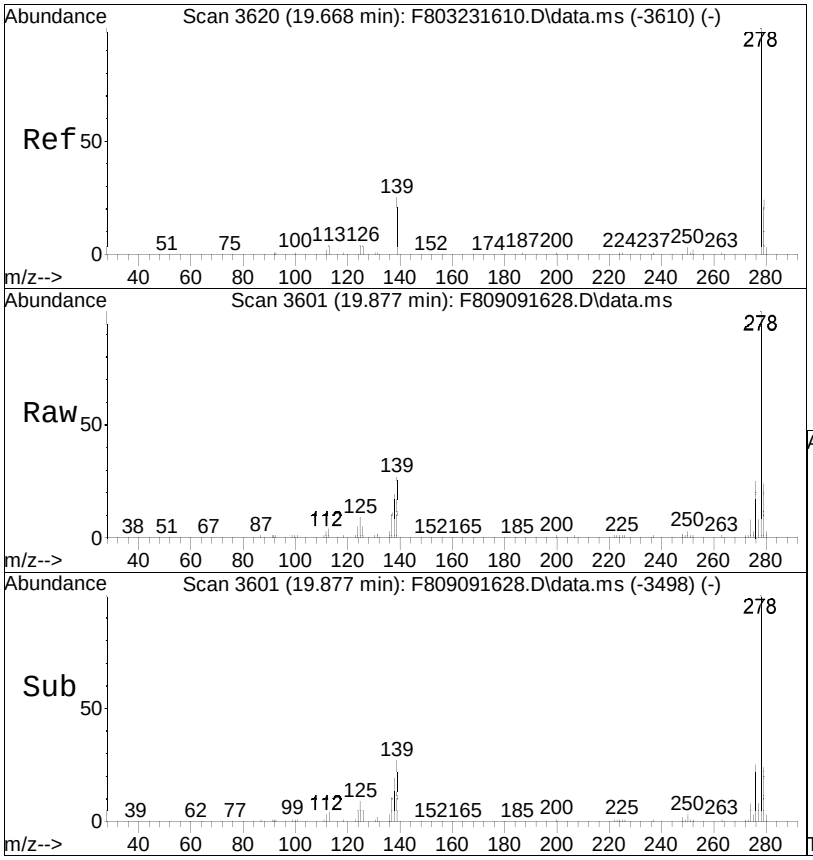


#90
Indeno[1,2,3-cd]pyrene
Concen: 10.35 ug/mL
RT: 19.824 min Scan# 3590
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:276 Resp: 1304998

Ion	Ratio	Lower	Upper
276	100		
138	36.5	28.2	42.2
277	24.2	19.4	29.0

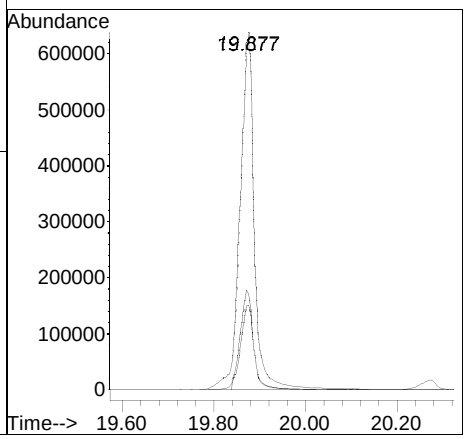


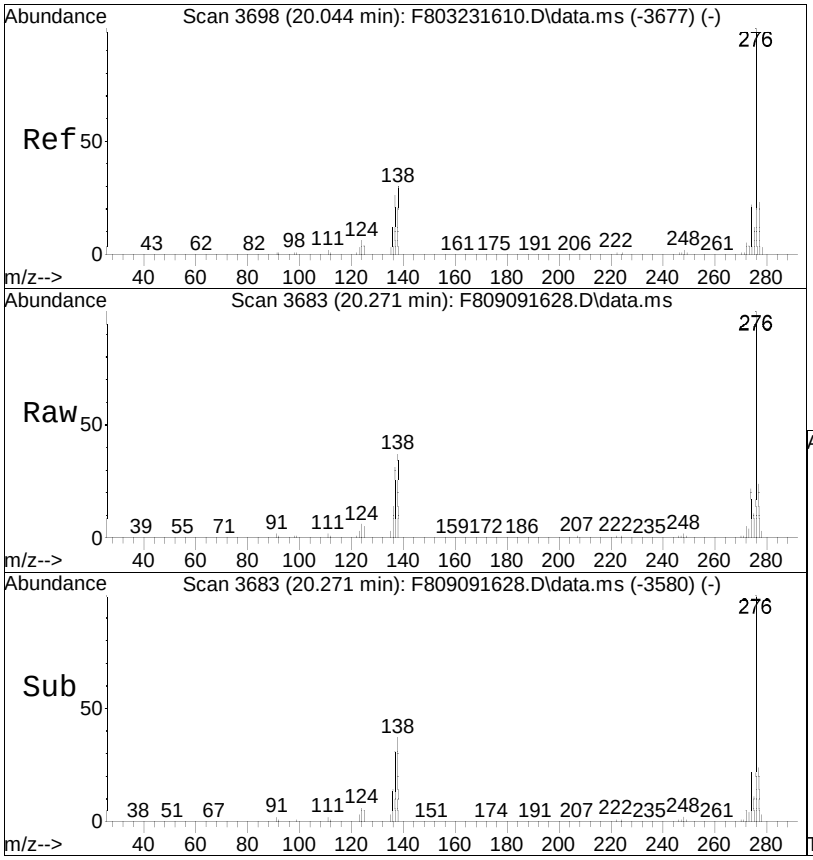


#91
Dibenz[a,h]anthracene
Concen: 10.82 ug/mL
RT: 19.877 min Scan# 3601
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:278 Resp: 1374410

Ion	Ratio	Lower	Upper
278	100		
139	26.6	23.4	35.0
279	23.5	19.4	29.0

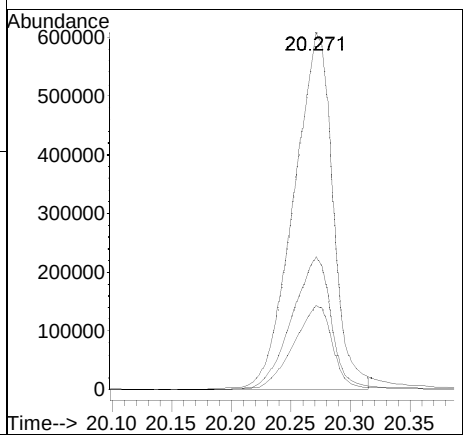




#92
Benzo[g,h,i]perylene
Concen: 10.12 ug/mL
RT: 20.271 min Scan# 3683
Delta R.T. -0.005 min
Lab File: F809091628.D
Acq: 10 Sep 2016 1:19 am

Tgt Ion:276 Resp: 1379448

Ion	Ratio	Lower	Upper
276	100		
138	37.4	31.4	47.2
277	23.8	19.4	29.0



Sample Preparation

ORGANIC ELN REPORT

Workgroup: WG929407

Prep Method: EPA 3570
Solvent Type: DCM — **Lot #:** DP875
Surrogate Type: 8270 — **Lot #:** MSAJ94
Spike Type: 8270 — **Lot #:** MSAK14/MSAK43/MSAJ75
Spike Verify by: BA
Lims Spikelot: 8270SPK3

Additional Reagents/Stds

Granulated Copper	OWR090616A
Na2SO4	0000131774

Conc.Method: Buchi
Solvent Type: DCM
Lot #: DP875

Additional Reagents/Stds

Glass Wool	11414001
Na2SO4	0000131774

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Weight g	Balance Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Time	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
WG929407-1 BLANK	09/07/16 07:06	Brian Anderson	30	T0316208	.5		NA	N/A	09/09/16 17:57	Sarah Barr	2	BUCHI 2
									2 mL ALIQUOTED OUT AND CONC/VOLUMIZED TO FV OF 1 mL. FEV SHOULD BE 2mL TS 090716			
WG929407-2 LCS	09/07/16 07:06	Brian Anderson	30	T0316208	.5	.2	NA	N/A	09/09/16 17:57	Sarah Barr	2	BUCHI 2
WG929407-3 LCSD	09/07/16 07:06	Brian Anderson	30	T0316208	.5	.2	NA	N/A	09/09/16 17:57	Sarah Barr	2	BUCHI 2
WG929407-4 DUP	09/07/16 07:06	Brian Anderson	30.86	T0316208	.5		NA	N/A	09/09/16 17:57	Sarah Barr	2	BUCHI 2
WG929407-5 MS	09/07/16 07:06	Brian Anderson	30.11	T0316208	.5	.2	NA	N/A	09/09/16 17:57	Sarah Barr	2	BUCHI 2
WG929407-6 MSD	09/07/16 07:06	Brian Anderson	30.07	T0316208	.5	.2	NA	N/A	09/09/16 17:57	Sarah Barr	2	BUCHI 2
WG929407-7 MS	09/07/16 07:06	Brian Anderson	30.52	T0316208	.5	.2	NA	N/A	09/09/16 17:57	Sarah Barr	2	BUCHI 2

Reported: 12-SEP-16 04:32 PM

ORGANIC ELN REPORT

Workgroup: WG929407

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight **g**	Balance Id	Surr Amt **ml**	Spike Amt **ml**	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG929407-8 MSD	09/07/16 07:06	Brian Anderson	30.42	T0316208	.5	.2	NA	N/A	09/09/16 17:57	Sarah Barr	2	BUCHI 2
L1625234-01 SOIL	09/07/16 07:06	Brian Anderson	30.60	T0316208	.5		NA	N/A	09/09/16 17:57	Sarah Barr	2	BUCHI 2
L1625234-02 SOIL	09/07/16 07:06	Brian Anderson	30.31	T0316208	.5		NA	N/A	09/09/16 17:57	Sarah Barr	2	BUCHI 2

Reported: 12-SEP-16 04:32 PM

Wet Chemistry

Total Solids / Percent Moisture Analysis

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

PERCENT TOTAL SOLIDS

Last Change 3/26/13
File A2-TS_S.xlt

Sample Number: _____

Client: _____

Analysis: %TOTAL SOLIDS in solids

Method: STM 2540-G

Product: A2-TS
Analyte: Solids, Total
Analysis Date: 8/24/2016 14:19
Technician: AR
Work group: WG925587
MDL: 0.10%
Scale Serial#: 14621307

	Sample Number	Tare Weight (gm)	Gross Weight (gm)	105 degrees C Net Weight(1) (gm)	Net Weight(2) (gm)	Net Weight(3) (gm)	Net Weight(4) (gm)	Net Weight(5) (gm)	RESULT %
DUP	WG925587-1	1.19	18.9	15.51	15.51				80.86
SAMP	L1625226-01	1.18	18.9	15.56	15.55				81.09
SAMP	L1625226-02	1.18	18.28	15.54	15.56				83.98
SAMP	L1625226-03	1.16	14.05	9.77	9.77				66.80
SAMP	L1625226-04	1.18	17.65	13.88	13.89				77.11
SAMP	L1625226-05	1.18	22.91	18.13	18.13				78.00
SAMP	L1625226-06	1.17	17.02	14.6	14.61				84.73
SAMP	L1625226-07	1.18	14.59	11.86	11.86				79.64
SAMP	L1625226-08	1.18	12.19	10.2	10.2				81.93
SAMP	L1625226-09	1.18	12.01	9.32	9.33				75.16
SAMP	L1625226-10	1.21	18.72	14.16	14.16				73.96
	L1625234-01	1.2	9.08	8.76	8.76				95.94
	L1625234-02	1.18	8.6	8.37	8.38				96.90
SAMP	L1626152-01	1.18	10.19	7.9	7.9				74.58
SAMP	L1626152-02	1.17	8.96	6.48	6.48				68.16
SAMP	L1626152-03	1.18	11.52	9.35	9.34				78.92

Comments:

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Aug 25 2016, 01:34 pm

Work Group: WG925587 for Department: 7 Wet Chemistry

Created: 24-AUG-16 Due: Operator: AR

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1625226-01	CC12-20160810-FD	S	A2-TS	SOIL	DONE	U	0817	0901	S0	Glass-A.25
L1625226-02	CC13-20160810	S	A2-TS	SOIL	DONE	U	0817	0901	S0	Glass-A.25
L1625226-03	CC14-20160810	S	A2-TS	SOIL	DONE	U	0817	0901	S0	Glass-A.25
L1625226-04	CC03-20160810	S	A2-TS	SOIL	DONE	U	0817	0901	S0	Glass-A.120
L1625226-05	CC04A-20160810	S	A2-TS	SOIL	DONE	U	0817	0901	S0	Glass-A.120
L1625226-06	CC12-20160810	S	A2-TS	SOIL	DONE	U	0817	0901	S0	Glass-A.25
L1625226-07	CC10-20160810	S	A2-TS	SOIL	DONE	U	0817	0901	S0	Glass-A.25
L1625226-08	CC11-20160810	S	A2-TS	SOIL	DONE	U	0817	0901	S0	Glass-A.25
L1625226-09	CC04B-20160810	S	A2-TS	SOIL	DONE	U	0817	0901	S0	Glass-A.120
L1625226-10	CC04B-20160810-FD	S	A2-TS	SOIL	DONE	U	0817	0901	S0	Glass-A.120
L1625234-01	LDW-BA-PC-ENRMAT-SAN	S	A2-TS	SOIL	DONE	U	0817	0901	S0	Glass-A.5
L1625234-02	LDW-BA-PC-ENRMAT-GRA	S	A2-TS	SOIL	DONE	U	0817	0901	S0	Glass-A.5
L1626152-01	SC-187-OUTD-(0.0-0.5	S	A2-TS	SOIL	DONE	U	0826	0912	S0	Glass-A.120
L1626152-02	SC-187-OUTD-(0.5-1.0	S	A2-TS	SOIL	DONE	U	0826	0912	S0	Glass-A.120
L1626152-03	SC-191-R2FS-(0.5-1.0	S	A2-TS	SOIL	DONE	U	0826	0912	S0	Glass-A.120
WG925587-1	Duplicate Sample	S	A2-TS	SOIL	DONE	U				

Comments:

WG925587-1 L1625226-01

Organic Carbon Analysis

Sequence Logs

Date of report: 8/30/2016 7:37 AM
User ID: Alpha Analytical

Run Details				Results			Signals			
Run	Run #	Weight	Created on	Carbon	Hydroge	Nitrogen	ZR	CR	HR	NR
K1	1	10.400	8/29/2016 9:36:16 A	19.856	3.592	2.618	27339	32597	34406	3052
BLANK	2		8/29/2016 9:41:05 A	17	-77	767	27248	28032	27955	2801
K1	3	10.370	8/29/2016 9:45:57 A	19.634	3.997	0.167	27230	29488	31499	2744
K1	4	10.560	8/29/2016 9:50:45 A	19.669	4.562	0.060	27222	29393	31742	2730
ICV	5	10.420	8/29/2016 9:55:54 A	0.987%	5.051%	0.163%	27215	29270	31395	2724
ICB	6	91.280	8/29/2016 10:00:47 A	0.001%	0.002%	-.002%	27206	27239	27171	2721
HICV	7	51.310	8/29/2016 10:05:43 A	3.769%	1.786%	0.382%	27222	65323	69077	2750
SRM1944	8	6.660	8/29/2016 10:36:03 A	4.460%	11.809	1.072%	27293	33220	36432	2740
MB	9	55.490	8/29/2016 10:40:47 A	0.001%	0.003%	-.019%	27254	27275	27209	2724
SRM1944	10	10.260	8/29/2016 10:45:24 A	4.310%	0.089%	1.040%	27245	36059	36023	2740
MB	11	75.220	8/29/2016 10:50:13 A	0.014%	0.003%	-.010%	27269	27477	27412	2726
162523401	12	23.890	8/29/2016 10:55:06 A	0.032%	0.007%	-.012%	27264	27430	27363	2726
162523401	13	23.420	8/29/2016 10:59:52 A	0.032%	0.010%	-.009%	27265	27427	27363	2727
162523401D	14	23.680	8/29/2016 11:04:44 A	0.054%	0.007%	0.003%	27272	27544	27477	2728
162523401D	15	19.420	8/29/2016 11:09:38 A	-.012%	0.002%	-.047%	27272	27234	27162	2726
162523401MS	16	18.510	8/29/2016 11:14:29 A	0.675%	3.153%	0.122%	27284	29779	32143	2732
162523401MS	17	21.870	8/29/2016 11:19:18 A	1.024%	3.897%	0.006%	27291	31689	35176	2730
CCV	18	10.560	8/29/2016 11:24:12 A	0.008%	0.009%	-.074%	27285	27311	27241	2728
CCB	19	90.340	8/29/2016 11:29:06 A	-.003%	0.001%	-.013%	27277	27224	27153	2726
CCV	20	10.210	8/29/2016 11:55:33 A	1.062%	8.765%	0.159%	27318	29481	33146	2734
CCB	21	59.390	8/29/2016 12:00:28 P	0.0%	0.0%	-.017%	27279	27285	27211	2727
MB	22	75.340	8/29/2016 12:15:33 P	0.002%	-.001%	-.012%	27279	27321	27243	2727
162523401D	23	26.200	8/29/2016 12:28:13 P	0.037%	-.004%	-.013%	27272	27474	27396	2727
162523401	24	16.200	8/29/2016 12:33:09 P	0.042%	0.003%	0.0%	27258	27410	27338	2726
162523401MS	25	20.950	8/29/2016 12:38:05 P	0.537%	4.946%	-.010%	27260	29476	33731	2726
162523401MS	26	29.600	8/29/2016 12:43:01 P	0.385%	3.676%	-.002%	27252	29496	33968	2725

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Run Details				Results			Signals			
Run	Run #	Weight	Created on	Carbon	Hydroge	Nitrogen	ZR	CR	HR	NR
CCV	20	10.210	8/29/2016 11:55:33 A	1.062%	8.765%	0.159%	27318	29481	33146	2734
CCB	21	59.390	8/29/2016 12:00:28 P	0.0%	0.0%	-.017%	27279	27285	27211	2727
MB	22	75.340	8/29/2016 12:15:33 P	0.002%	-.001%	-.012%	27279	27321	27243	2727
162523401D	23	26.200	8/29/2016 12:28:13 P	0.037%	-.004%	-.013%	27272	27474	27396	2727
162523401	24	16.200	8/29/2016 12:33:09 P	0.042%	0.003%	0.0%	27258	27410	27338	2726
162523401MS	25	20.950	8/29/2016 12:38:05 P	0.537%	4.946%	-.010%	27260	29476	33731	2726
162523401MS	26	29.600	8/29/2016 12:43:01 P	0.385%	3.676%	-.002%	27252	29496	33968	2725
162523401MS	27	21.740	8/29/2016 12:47:56 P	0.528%	5.376%	-.016%	27246	29505	34314	2724
162523401MS	28	20.900	8/29/2016 12:52:53 P	0.569%	4.717%	0.003%	27241	29586	33631	2725
162523402	29	26.690	8/29/2016 12:57:35 P	0.131%	0.007%	-.019%	27233	27928	27862	2723
162523402	30	23.310	8/29/2016 1:02:17 PM	-.013%	0.002%	-.058%	27237	27181	27109	2722
CCV	31	10.620	8/29/2016 1:15:41 PM	1.122%	9.482%	0.073%	27270	29630	33763	2728
CCB	32	122.650	8/29/2016 1:20:32 PM	0.003%	0.001%	-.006%	27237	27309	27238	2723
162523402	33	17.520	8/29/2016 1:33:11 PM	0.170%	0.007%	-.028%	27247	27842	27773	2724
162523402	34	26.330	8/29/2016 1:38:03 PM	0.168%	0.008%	-.008%	27232	28116	28051	2723
162523402MS	35	19.930	8/29/2016 1:42:58 PM	0.786%	5.330%	0.085%	27235	30342	34706	2726
162523402MS	36	25.090	8/29/2016 1:47:51 PM	-.012%	0.006%	-.054%	27224	27164	27096	2721
162523402MS	37	12.840	8/29/2016 1:52:42 PM	1.222%	6.877%	0.017%	27227	30316	33931	2723
162523402MS	38	17.170	8/29/2016 1:57:36 PM	1.437%	6.141%	0.193%	27227	32117	36448	2728
162523402MS	39	17.760	8/29/2016 2:48:07 PM	0.689%	5.062%	0.024%	27236	29653	33335	2725
162523402MS	40	18.360	8/29/2016 2:53:00 PM	0.691%	5.229%	0.0%	27190	29690	33627	2719
162523402MS	41	16.920	8/29/2016 3:43:06 PM	0.744%	5.425%	0.021%	27221	29708	33469	2723
162523402MS	42	19.710	8/29/2016 3:47:57 PM	0.685%	4.435%	0.018%	27170	29834	33412	2718
CCV	43	9.820	8/29/2016 3:52:43 PM	-.022%	0.029%	-.115%	27144	27106	27044	2713
CCB	44	67.140	8/29/2016 3:57:34 PM	0.138%	0.157%	0.016%	27151	28991	29357	2717
CCV	45	10.090	8/29/2016 4:32:46 PM	0.814%	10.826	1.443%	27224	29055	33545	2743
CCB	46	76.030	8/29/2016 4:37:40 PM	0.003%	0.003%	-.012%	27170	27223	27158	2716

Date of report: 8/30/2016 2:28 PM
User ID: Alpha Analytical

Run Details				Results			Signals			
Run	Run #	Weight	Created on	Carbon	Hydroge	Nitrogen	ZR	CR	HR	NR
K1	1	10.080	8/30/2016 7:53:50 A	17.808	0.724	0.995	27101	30086	30379	2827
BLANK	2		8/30/2016 7:58:53 A	33	-87	250	27025	27308	27221	2727
K1	3	10.230	8/30/2016 8:05:55 A	18.377	0.375	0.205	26998	29153	29265	2725
K1	4	10.130	8/30/2016 8:10:50 A	19.082	0.394	0.027	26983	28978	29098	2702
ICV	5	10.220	8/30/2016 8:23:19 A	0.976%	5.858%	1.721%	27002	29120	29321	2722
ICB	6	83.800	8/30/2016 8:28:22 A	0.001%	0.005%	0.033%	26981	27052	26973	2702
HICV	7	51.0	8/30/2016 8:33:28 A	4.081%	1.686%	0.225%	27017	66319	66643	2716
SRM1650B	8	.320	8/30/2016 8:42:19 A	89.459%	2222.66	3.112%	26995	32420	35689	2701
MB	9	70.380	8/30/2016 8:47:18 A	0.0%	0.060%	-.004%	26986	27012	26951	2699
SRM1650B	10	.590	8/30/2016 8:52:14 A	87.846%	28.069	1.688%	26971	36759	36756	2699
MB	11	64.390	8/30/2016 8:57:09 A	0.0%	0.079%	-.012%	26987	27011	26954	2698
162523401	12	27.250	8/30/2016 9:03:47 A	0.034%	0.397%	-.040%	26991	27184	27154	2698
162523401	13	27.310	8/30/2016 9:08:42 A	0.027%	0.210%	0.015%	26992	27168	27114	2700
162523401D	14	20.140	8/30/2016 9:13:39 A	0.012%	0.485%	0.012%	27009	27087	27052	2702
162523401D	15	22.270	8/30/2016 9:18:35 A	0.011%	0.276%	0.034%	27003	27086	27034	2702
162523401MS	16	31.550	8/30/2016 9:23:16 A	0.359%	8.681%	0.032%	27002	29174	30383	2702
162523401MS	17	31.250	8/30/2016 9:27:13 A	0.367%	8.533%	0.024%	26987	29185	30360	2700
CCV	18	10.140	8/30/2016 9:32:07 A	1.003%	30.005	1.547%	27008	29140	30492	2720
CCB	19	61.770	8/30/2016 9:36:56 A	0.0%	0.093%	-.015%	26998	27014	26960	2699
162523401MS	20	20.210	8/30/2016 9:44:58 A	0.580%	16.031	0.411%	27024	29357	30802	2713
162523401MS	21	29.340	8/30/2016 9:49:51 A	0.398%	12.237	0.011%	27026	29257	30867	2703
162523402	22	22.030	8/30/2016 9:54:44 A	0.020%	0.366%	-.049%	27025	27126	27083	2702
162523402	23	28.980	8/30/2016 9:59:31 A	0.019%	0.169%	-.011%	26999	27126	27068	2700
162523402MS	24	22.430	8/30/2016 10:18:34 A	0.507%	10.071	0.022%	27036	29209	30192	2705
162523402MS	25	23.690	8/30/2016 10:23:36 A	0.475%	13.130	0.263%	27024	29244	30628	2710
162523402MS	26	19.640	8/30/2016 10:28:39 A	0.567%	9.037%	0.203%	27033	29205	29960	2708

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Run Details				Results			Signals			
Run	Run #	Weight	Created on	Carbon	Hydroge	Nitrogen	ZR	CR	HR	NR
162523402MS	27	22.810	8/30/2016 10:33:37 A	0.494%	5.845%	0.178%	27017	29215	29762	2707
CCV	28	10.200	8/30/2016 10:38:38 A	-.016%	-.021%	-.057%	26987	26979	26897	2698
CCB	29	74.380	8/30/2016 10:43:38 A	-.001%	0.006%	0.010%	26991	27021	26942	2700
CCV	30	10.230	8/30/2016 10:49:13 A	1.046%	8.094%	0.779%	26993	29131	29440	2709
SRM1944	31	5.690	8/30/2016 10:56:33 A	4.514%	1.754%	1.488%	27005	31967	31933	2711
MB	32	65.480	8/30/2016 11:01:28 A	0.001%	0.071%	-.009%	26990	27030	26971	2699
SRM1944	33	8.880	8/30/2016 11:06:23 A	4.290%	1.315%	1.206%	26991	34314	34288	2712
MB	34	81.720	8/30/2016 11:11:19 A	0.003%	0.065%	-.010%	26997	27056	27000	2699
162658501	35	13.460	8/30/2016 11:22:14 A	0.121%	0.315%	0.037%	27009	27350	27289	2702
162658501D	36	10.710	8/30/2016 11:27:10 A	0.118%	0.555%	0.070%	26989	27265	27212	2700
162658501MS	37	11.210	8/30/2016 11:32:06 A	1.078%	9.565%	0.215%	26995	29327	29751	2703
162658501MS	38	11.160	8/30/2016 11:36:58 A	1.076%	11.015	0.052%	26994	29288	29786	2700
162680217	39	13.350	8/30/2016 11:41:32 A	0.086%	1.034%	-.037%	26982	27222	27206	2698
162680217	40	14.380	8/30/2016 11:46:20 A	0.067%	1.063%	-.012%	26963	27171	27162	2696
CCV	41	10.050	8/30/2016 11:51:13 A	0.882%	7.267%	2.271%	26975	28946	29209	2725
CCB	42	81.690	8/30/2016 11:56:03 A	-.001%	0.195%	-.011%	26971	26974	26968	2696
162530001	43	17.820	8/30/2016 12:28:11 P	0.762%	0.238%	0.135%	26996	29607	29546	2703
162530001	44	22.520	8/30/2016 12:33:00 P	0.643%	0.321%	0.107%	26967	29750	29703	2700
162530002	45	19.740	8/30/2016 12:37:53 P	0.483%	0.215%	0.109%	26953	28802	28741	2698
162530002	46	18.370	8/30/2016 12:42:48 P	0.551%	0.162%	0.072%	26955	28906	28839	2697
162530003	47	16.150	8/30/2016 12:47:39 P	0.360%	0.171%	0.015%	26955	28081	28013	2696
162530003	48	16.710	8/30/2016 12:52:30 P	0.269%	0.114%	0.010%	26958	27836	27764	2696
162530004	49	14.990	8/30/2016 12:57:25 P	2.363%	0.751%	0.659%	26955	33766	33738	2708
162530004	50	15.180	8/30/2016 1:02:19 PM	1.983%	1.133%	0.552%	26977	32767	32767	2708
CCV	51	10.150	8/30/2016 1:54:15 PM	-.030%	0.732%	1.414%	27001	27147	27101	2718
CCB	52	72.340	8/30/2016 1:58:53 PM	0.150%	0.144%	-.005%	26974	29047	29015	2697
CCV	53	10.170	8/30/2016 2:19:21 PM	1.068%	39.916	1.477%	27011	29265	31096	2720

Reported on 8/30/2016 2:28 PM by Alpha Analytical

Run Details				Results			Signals			
Run	Run #	Weight	Created on	Carbon	Hydroge	Nitrogen	ZR	CR	HR	NR
CCV	53	10.170	8/30/2016 2:19:21 PM	1.068%	39.916	1.477%	27011	29265	31096	2720
CCB	54	76.790	8/30/2016 2:24:17 PM	0.0%	0.080%	-.013%	26958	26973	26921	2695

Sample Raw Data

Date of report	8/30/2016 7:37:38AM
User ID	Alpha Analytical

DATE & TIME	8/29/2016 9:36:16 AM	P_ID	082916CM
RUN TYPE	K1	USER ID	alpha
WEIGHT (mg)	10.400	MODE	CHN

				SIGNALS			
				ZR	27339	AVERAGE RESULTS	
KC	19.856			NR	30524	KC	19.213
KH	3.592			CR	32597	KH	9.515
KN	2.618			HR	34406	KN	1.415
BLANKS	8	-70	8				
K FACTORS	1.0%	5.03%	11.67%				
FILL TIME	28 Seconds						

DATE & TIME	8/29/2016 9:41:05 AM	P_ID	082916CM
RUN TYPE	BLANK	USER ID	alpha
		MODE	CHN

				SIGNALS			
				ZR	27248	AVERAGE RESULTS	
CARBON	17			NR	28015	CARBON	12
HYDROGEN	-77			CR	28032	HYDROGEN	-74
NITROGEN	767			HR	27955	NITROGEN	8
FILL TIME	28 Seconds						

DATE & TIME	8/29/2016 9:45:57 AM	P_ID	082916CM
RUN TYPE	K1	USER ID	alpha
WEIGHT (mg)	10.370	MODE	CHN

				SIGNALS			
				ZR	27230	AVERAGE RESULTS	
KC	19.634			NR	27440	KC	19.423
KH	3.997			CR	29488	KH	3.794
KN	0.167			HR	31499	KN	1.415
BLANKS	12	-74	8				
K FACTORS	1.0%	5.03%	11.67%				
FILL TIME	27 Seconds						

DATE & TIME	8/29/2016 9:50:45 AM	P_ID	082916CM
RUN TYPE	K1	USER ID	alpha
WEIGHT (mg)	10.560	MODE	CHN

				SIGNALS			
				ZR	27222	AVERAGE RESULTS	
KC	19.669			NR	27304	KC	19.546
KH	4.562			CR	29393	KH	4.178
KN	0.060			HR	31742	KN	1.415
BLANKS	12	-74	8				
K FACTORS	1.0%	5.03%	11.67%				
FILL TIME	27 Seconds						

NUMBER	MESSAGE
12	NITROGEN KFACTOR OUT OF TOLERANCE

DATE & TIME	8/29/2016 9:55:54 AM	P_ID	082916CM
SAMPLE ID	ICV	USER ID	alpha
WEIGHT (mg)	10.420	MODE	CHN

				SIGNALS	
				ZR	27215
CARBON	0.987%			NR	27247
HYDROGEN	5.051%			CR	29270
NITROGEN	0.163%			HR	31395
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	28 Seconds				

DATE & TIME	8/29/2016 10:00:47 AM	P_ID	082916CM
SAMPLE ID	ICB	USER ID	alpha
WEIGHT (mg)	91.280	MODE	CHN

				SIGNALS	
				ZR	27206
CARBON	0.001%			NR	27212
HYDROGEN	0.002%			CR	27239
NITROGEN	-.002%			HR	27171
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	28 Seconds				

DATE & TIME	8/29/2016 10:05:43 AM	P_ID	082916CM
SAMPLE ID	HICV	USER ID	alpha
WEIGHT (mg)	51.310	MODE	CHN

				SIGNALS	
				ZR	27222
CARBON	3.769%			NR	27507
HYDROGEN	1.786%			CR	65323
NITROGEN	0.382%			HR	69077
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/29/2016 10:36:03 AM	P_ID	082916CM
SAMPLE ID	SRM1944	USER ID	alpha
WEIGHT (mg)	6.660	MODE	CHN

				SIGNALS	
				ZR	27293
CARBON	4.460%			NR	27402
HYDROGEN	11.809%			CR	33220
NITROGEN	1.072%			HR	36432
BLANKS	12	-74	8		

K FACTORS	19.546	4.178	1.415
FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	27 Seconds		

DATE & TIME	8/29/2016 10:40:47 AM	P_ID	082916CM
SAMPLE ID	MB	USER ID	alpha
WEIGHT (mg)	55.490	MODE	CHN

		SIGNALS	
		ZR	27254
CARBON	0.001%	NR	27247
HYDROGEN	0.003%	CR	27275
NITROGEN	-.019%	HR	27209
BLANKS	12 -74 8		
K FACTORS	19.546 4.178 1.415		
FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	28 Seconds		

DATE & TIME	8/29/2016 10:45:24 AM	P_ID	082916CM
SAMPLE ID	SRM1944	USER ID	alpha
WEIGHT (mg)	10.260	MODE	CHN

		SIGNALS	
		ZR	27245
CARBON	4.310%	NR	27404
HYDROGEN	0.089%	CR	36059
NITROGEN	1.040%	HR	36023
BLANKS	12 -74 8		
K FACTORS	19.546 4.178 1.415		
FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	28 Seconds		

DATE & TIME	8/29/2016 10:50:13 AM	P_ID	082916CM
SAMPLE ID	MB	USER ID	alpha
WEIGHT (mg)	75.220	MODE	CHN

		SIGNALS	
		ZR	27269
CARBON	0.014%	NR	27266
HYDROGEN	0.003%	CR	27477
NITROGEN	-.010%	HR	27412
BLANKS	12 -74 8		
K FACTORS	19.546 4.178 1.415		
FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	28 Seconds		

DATE & TIME	8/29/2016 10:55:06 AM	P_ID	082916CM
SAMPLE ID	162523401	USER ID	alpha
WEIGHT (mg)	23.890	MODE	CHN

				SIGNALS	
				ZR	27264
CARBON	0.032%			NR	27268
HYDROGEN	0.007%			CR	27430
NITROGEN	-.012%			HR	27363
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	28 Seconds				

DATE & TIME	8/29/2016 10:59:52 AM	P_ID	082916CM
SAMPLE ID	162523401	USER ID	alpha
WEIGHT (mg)	23.420	MODE	CHN

				SIGNALS	
				ZR	27265
CARBON	0.032%			NR	27270
HYDROGEN	0.010%			CR	27427
NITROGEN	-.009%			HR	27363
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	28 Seconds				

DATE & TIME	8/29/2016 11:04:44 AM	P_ID	082916CM
SAMPLE ID	162523401D	USER ID	alpha
WEIGHT (mg)	23.680	MODE	CHN

				SIGNALS	
				ZR	27272
CARBON	0.054%			NR	27281
HYDROGEN	0.007%			CR	27544
NITROGEN	0.003%			HR	27477
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	28 Seconds				

DATE & TIME	8/29/2016 11:09:38 AM	P_ID	082916CM
SAMPLE ID	162523401D	USER ID	alpha
WEIGHT (mg)	19.420	MODE	CHN

				SIGNALS	
				ZR	27272
CARBON	-.012%			NR	27267
HYDROGEN	0.002%			CR	27234
NITROGEN	-.047%			HR	27162
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	28 Seconds				

DATE & TIME	8/29/2016 11:14:29 AM	P_ID	082916CM
SAMPLE ID	162523401MS	USER ID	alpha
WEIGHT (mg)	18.510	MODE	CHN

		SIGNALS	
		ZR	27284
CARBON	0.675%	NR	27324
HYDROGEN	3.153%	CR	29779
NITROGEN	0.122%	HR	32143

BLANKS	12	-74	8
K FACTORS	19.546	4.178	1.415

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 28 Seconds

DATE & TIME	8/29/2016 11:19:18 AM	P_ID	082916CM
SAMPLE ID	162523401MS	USER ID	alpha
WEIGHT (mg)	21.870	MODE	CHN

		SIGNALS	
		ZR	27291
CARBON	1.024%	NR	27301
HYDROGEN	3.897%	CR	31689
NITROGEN	0.006%	HR	35176

BLANKS	12	-74	8
K FACTORS	19.546	4.178	1.415

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 28 Seconds

DATE & TIME	8/29/2016 11:24:12 AM	P_ID	082916CM
SAMPLE ID	CCV	USER ID	alpha
WEIGHT (mg)	10.560	MODE	CHN

		SIGNALS	
		ZR	27285
CARBON	0.008%	NR	27282
HYDROGEN	0.009%	CR	27311
NITROGEN	-.074%	HR	27241

BLANKS	12	-74	8
K FACTORS	19.546	4.178	1.415

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 28 Seconds

DATE & TIME	8/29/2016 11:29:06 AM	P_ID	082916CM
SAMPLE ID	CCB	USER ID	alpha
WEIGHT (mg)	90.340	MODE	CHN

		SIGNALS	
		ZR	27277
CARBON	-.003%	NR	27269
HYDROGEN	0.001%	CR	27224
NITROGEN	-.013%	HR	27153

BLANKS	12	-74	8
K FACTORS	19.546	4.178	1.415

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 29 Seconds

DATE & TIME	8/29/2016 11:55:33 AM	P_ID	082916CM
SAMPLE ID	CCV	USER ID	alpha
WEIGHT (mg)	10.210	MODE	CHN

		SIGNALS	
		ZR	27318
CARBON	1.062%	NR	27349
HYDROGEN	8.765%	CR	29481
NITROGEN	0.159%	HR	33146
BLANKS	12	-74	8
K FACTORS	19.546	4.178	1.415

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 28 Seconds

DATE & TIME	8/29/2016 12:00:28 PM	P_ID	082916CM
SAMPLE ID	CCB	USER ID	alpha
WEIGHT (mg)	59.390	MODE	CHN

		SIGNALS	
		ZR	27279
CARBON	0.0%	NR	27273
HYDROGEN	0.0%	CR	27285
NITROGEN	-.017%	HR	27211
BLANKS	12	-74	8
K FACTORS	19.546	4.178	1.415

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 29 Seconds

DATE & TIME	8/29/2016 12:15:33 PM	P_ID	082916CM
SAMPLE ID	MB	USER ID	alpha
WEIGHT (mg)	75.340	MODE	CHN

		SIGNALS	
		ZR	27279
CARBON	0.002%	NR	27274
HYDROGEN	-.001%	CR	27321
NITROGEN	-.012%	HR	27243
BLANKS	12	-74	8
K FACTORS	19.546	4.178	1.415

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 29 Seconds

DATE & TIME	8/29/2016 12:28:13 PM	P_ID	082916CM
SAMPLE ID	162523401D	USER ID	alpha
WEIGHT (mg)	26.200	MODE	CHN

				SIGNALS	
				ZR	27272
CARBON	0.037%			NR	27275
HYDROGEN	-.004%			CR	27474
NITROGEN	-.013%			HR	27396
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/29/2016 12:33:09 PM	P_ID	082916CM
SAMPLE ID	162523401	USER ID	alpha
WEIGHT (mg)	16.200	MODE	CHN

				SIGNALS	
				ZR	27258
CARBON	0.042%			NR	27266
HYDROGEN	0.003%			CR	27410
NITROGEN	0.0%			HR	27338
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/29/2016 12:38:05 PM	P_ID	082916CM
SAMPLE ID	162523401MS	USER ID	alpha
WEIGHT (mg)	20.950	MODE	CHN

				SIGNALS	
				ZR	27260
CARBON	0.537%			NR	27265
HYDROGEN	4.946%			CR	29476
NITROGEN	-.010%			HR	33731
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/29/2016 12:43:01 PM	P_ID	082916CM
SAMPLE ID	162523401MS	USER ID	alpha
WEIGHT (mg)	29.600	MODE	CHN

				SIGNALS	
				ZR	27252
CARBON	0.385%			NR	27259
HYDROGEN	3.676%			CR	29496
NITROGEN	-.002%			HR	33968
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/29/2016 12:47:56 PM	P_ID	082916CM
SAMPLE ID	162523401MSD	USER ID	alpha
WEIGHT (mg)	21.740	MODE	CHN

				SIGNALS	
				ZR	27246
CARBON	0.528%			NR	27249
HYDROGEN	5.376%			CR	29505
NITROGEN	-.016%			HR	34314
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/29/2016 12:52:53 PM	P_ID	082916CM
SAMPLE ID	162523401MSD	USER ID	alpha
WEIGHT (mg)	20.900	MODE	CHN

				SIGNALS	
				ZR	27241
CARBON	0.569%			NR	27250
HYDROGEN	4.717%			CR	29586
NITROGEN	0.003%			HR	33631
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/29/2016 12:57:35 PM	P_ID	082916CM
SAMPLE ID	162523402	USER ID	alpha
WEIGHT (mg)	26.690	MODE	CHN

				SIGNALS	
				ZR	27233
CARBON	0.131%			NR	27234
HYDROGEN	0.007%			CR	27928
NITROGEN	-.019%			HR	27862
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/29/2016 1:02:17 PM	P_ID	082916CM
SAMPLE ID	162523402	USER ID	alpha
WEIGHT (mg)	23.310	MODE	CHN

		SIGNALS	
		ZR	27237
CARBON	-.013%	NR	27226
HYDROGEN	0.002%	CR	27181
NITROGEN	-.058%	HR	27109

BLANKS	12	-74	8
K FACTORS	19.546	4.178	1.415
FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	29 Seconds		

DATE & TIME	8/29/2016 1:15:41 PM	P_ID	082916CM
SAMPLE ID	CCV	USER ID	alpha
WEIGHT (mg)	10.620	MODE	CHN

		SIGNALS	
		ZR	27270
CARBON	1.122%	NR	27289
HYDROGEN	9.482%	CR	29630
NITROGEN	0.073%	HR	33763
BLANKS	12	-74	8
K FACTORS	19.546	4.178	1.415
FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	29 Seconds		

DATE & TIME	8/29/2016 1:20:32 PM	P_ID	082916CM
SAMPLE ID	CCB	USER ID	alpha
WEIGHT (mg)	122.650	MODE	CHN

		SIGNALS	
		ZR	27237
CARBON	0.003%	NR	27234
HYDROGEN	0.001%	CR	27309
NITROGEN	-.006%	HR	27238
BLANKS	12	-74	8
K FACTORS	19.546	4.178	1.415
FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	29 Seconds		

DATE & TIME	8/29/2016 1:33:11 PM	P_ID	082916CM
SAMPLE ID	162523402	USER ID	alpha
WEIGHT (mg)	17.520	MODE	CHN

		SIGNALS	
		ZR	27247
CARBON	0.170%	NR	27248
HYDROGEN	0.007%	CR	27842
NITROGEN	-.028%	HR	27773
BLANKS	12	-74	8
K FACTORS	19.546	4.178	1.415
FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	29 Seconds		

DATE & TIME	8/29/2016 1:38:03 PM	P_ID	082916CM
SAMPLE ID	162523402	USER ID	alpha
WEIGHT (mg)	26.330	MODE	CHN

				SIGNALS	
				ZR	27232
CARBON	0.168%			NR	27237
HYDROGEN	0.008%			CR	28116
NITROGEN	-.008%			HR	28051
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/29/2016 1:42:58 PM	P_ID	082916CM
SAMPLE ID	162523402MS	USER ID	alpha
WEIGHT (mg)	19.930	MODE	CHN

				SIGNALS	
				ZR	27235
CARBON	0.786%			NR	27267
HYDROGEN	5.330%			CR	30342
NITROGEN	0.085%			HR	34706
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/29/2016 1:47:51 PM	P_ID	082916CM
SAMPLE ID	162523402MS	USER ID	alpha
WEIGHT (mg)	25.090	MODE	CHN

				SIGNALS	
				ZR	27224
CARBON	-.012%			NR	27213
HYDROGEN	0.006%			CR	27164
NITROGEN	-.054%			HR	27096
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/29/2016 1:52:42 PM	P_ID	082916CM
SAMPLE ID	162523402MSD	USER ID	alpha
WEIGHT (mg)	12.840	MODE	CHN

				SIGNALS	
				ZR	27227
CARBON	1.222%			NR	27238
HYDROGEN	6.877%			CR	30316
NITROGEN	0.017%			HR	33931
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/29/2016 1:57:36 PM	P_ID	082916CM
SAMPLE ID	162523402MSD	USER ID	alpha
WEIGHT (mg)	17.170	MODE	CHN

				SIGNALS	
				ZR	27227
CARBON	1.437%			NR	27282
HYDROGEN	6.141%			CR	32117
NITROGEN	0.193%			HR	36448
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/29/2016 2:48:07 PM	P_ID	082916CM
SAMPLE ID	162523402MS	USER ID	alpha
WEIGHT (mg)	17.760	MODE	CHN

				SIGNALS	
				ZR	27236
CARBON	0.689%			NR	27250
HYDROGEN	5.062%			CR	29653
NITROGEN	0.024%			HR	33335
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/29/2016 2:53:00 PM	P_ID	082916CM
SAMPLE ID	162523402MS	USER ID	alpha
WEIGHT (mg)	18.360	MODE	CHN

				SIGNALS	
				ZR	27190
CARBON	0.691%			NR	27198
HYDROGEN	5.229%			CR	29690
NITROGEN	0.0%			HR	33627
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/29/2016 3:43:06 PM	P_ID	082916CM
SAMPLE ID	162523402MSD	USER ID	alpha
WEIGHT (mg)	16.920	MODE	CHN

		SIGNALS	
		ZR	27221
CARBON	0.744%	NR	27234
HYDROGEN	5.425%	CR	29708
NITROGEN	0.021%	HR	33469

BLANKS	12	-74	8
K FACTORS	19.546	4.178	1.415
FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	29 Seconds		

DATE & TIME	8/29/2016 3:47:57 PM	P_ID	082916CM
SAMPLE ID	162523402MSD	USER ID	alpha
WEIGHT (mg)	19.710	MODE	CHN

		SIGNALS	
		ZR	27170
CARBON	0.685%	NR	27183
HYDROGEN	4.435%	CR	29834
NITROGEN	0.018%	HR	33412
BLANKS	12	-74	8
K FACTORS	19.546	4.178	1.415
FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	29 Seconds		

DATE & TIME	8/29/2016 3:52:43 PM	P_ID	082916CM
SAMPLE ID	CCV	USER ID	alpha
WEIGHT (mg)	9.820	MODE	CHN

		SIGNALS	
		ZR	27144
CARBON	-.022%	NR	27136
HYDROGEN	0.029%	CR	27106
NITROGEN	-.115%	HR	27044
BLANKS	12	-74	8
K FACTORS	19.546	4.178	1.415
FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	29 Seconds		

DATE & TIME	8/29/2016 3:57:34 PM	P_ID	082916CM
SAMPLE ID	CCB	USER ID	alpha
WEIGHT (mg)	67.140	MODE	CHN

		SIGNALS	
		ZR	27151
CARBON	0.138%	NR	27174
HYDROGEN	0.157%	CR	28991
NITROGEN	0.016%	HR	29357
BLANKS	12	-74	8
K FACTORS	19.546	4.178	1.415
FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	29 Seconds		

DATE & TIME	8/29/2016 4:32:46 PM	P_ID	082916CM
SAMPLE ID	CCV	USER ID	alpha
WEIGHT (mg)	10.090	MODE	CHN

				SIGNALS	
				ZR	27224
CARBON	0.814%			NR	27438
HYDROGEN	10.826%			CR	29055
NITROGEN	1.443%			HR	33545
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/29/2016 4:37:40 PM	P_ID	082916CM
SAMPLE ID	CCB	USER ID	alpha
WEIGHT (mg)	76.030	MODE	CHN

				SIGNALS	
				ZR	27170
CARBON	0.003%			NR	27165
HYDROGEN	0.003%			CR	27223
NITROGEN	-.012%			HR	27158
BLANKS	12	-74	8		
K FACTORS	19.546	4.178	1.415		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

Date of report	8/30/2016 2:29:04PM
User ID	Alpha Analytical

DATE & TIME	8/30/2016 7:53:50 AM	P_ID	083016AR
RUN TYPE	K1	USER ID	alpha
WEIGHT (mg)	10.080	MODE	CHN

SIGNALS

		ZR	27101	AVERAGE RESULTS	
KC	17.808	NR	28279	KC	18.677
KH	0.724	CR	30086	KH	4.178
KN	0.995	HR	30379	KN	1.205

BLANKS	12	-74	8
K FACTORS	1.0%	5.03%	11.67%
FILL TIME	27 Seconds		

DATE & TIME	8/30/2016 7:58:53 AM	P_ID	083016AR
RUN TYPE	BLANK	USER ID	alpha
		MODE	CHN

SIGNALS

		ZR	27025	AVERAGE RESULTS	
CARBON	33	NR	27275	CARBON	22
HYDROGEN	-87	CR	27308	HYDROGEN	-81
NITROGEN	250	HR	27221	NITROGEN	8
FILL TIME	34 Seconds				

NUMBER	MESSAGE
17	NITROGEN BLANK OUT OF TOLERANCE

DATE & TIME	8/30/2016 8:05:55 AM	P_ID	083016AR
RUN TYPE	K1	USER ID	alpha
WEIGHT (mg)	10.230	MODE	CHN

SIGNALS

		ZR	26998	AVERAGE RESULTS	
KC	18.377	NR	27251	KC	18.527
KH	0.375	CR	29153	KH	0.549
KN	0.205	HR	29265	KN	1.205

BLANKS	22	-81	8
K FACTORS	1.0%	5.03%	11.67%
FILL TIME	28 Seconds		

DATE & TIME	8/30/2016 8:10:50 AM	P_ID	083016AR
RUN TYPE	K1	USER ID	alpha
WEIGHT (mg)	10.130	MODE	CHN

SIGNALS

		ZR	26983	AVERAGE RESULTS	
KC	19.082	NR	27023	KC	18.804
KH	0.394	CR	28978	KH	0.471
KN	0.027	HR	29098	KN	1.205

BLANKS	22	-81	8
K FACTORS	1.0%	5.03%	11.67%
FILL TIME	27 Seconds		

NUMBER	MESSAGE
12	NITROGEN KFACTOR OUT OF TOLERANCE

DATE & TIME	8/30/2016 8:23:19 AM	P_ID	083016AR
SAMPLE ID	ICV	USER ID	alpha
WEIGHT (mg)	10.220	MODE	CHN

				SIGNALS	
				ZR	27002
CARBON	0.976%			NR	27222
HYDROGEN	5.858%			CR	29120
NITROGEN	1.721%			HR	29321
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	34 Seconds				

DATE & TIME	8/30/2016 8:28:22 AM	P_ID	083016AR
SAMPLE ID	ICB	USER ID	alpha
WEIGHT (mg)	83.800	MODE	CHN

				SIGNALS	
				ZR	26981
CARBON	0.001%			NR	27022
HYDROGEN	0.005%			CR	27052
NITROGEN	0.033%			HR	26973
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	35 Seconds				

DATE & TIME	8/30/2016 8:33:28 AM	P_ID	083016AR
SAMPLE ID	HICV	USER ID	alpha
WEIGHT (mg)	51.0	MODE	CHN

				SIGNALS	
				ZR	27017
CARBON	4.081%			NR	27163
HYDROGEN	1.686%			CR	66319
NITROGEN	0.225%			HR	66643
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	38 Seconds				

DATE & TIME	8/30/2016 8:42:19 AM	P_ID	083016AR
SAMPLE ID	SRM1650B	USER ID	alpha
WEIGHT (mg)	.320	MODE	CHN

		SIGNALS	
		ZR	26995
CARBON	89.459%	NR	27015
HYDROGEN	2222.665%	CR	32420
NITROGEN	3.112%	HR	35689

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 27 Seconds

DATE & TIME	8/30/2016 8:47:18 AM	P_ID	083016AR
SAMPLE ID	MB	USER ID	alpha
WEIGHT (mg)	70.380	MODE	CHN

		SIGNALS	
		ZR	26986
CARBON	0.0%	NR	26991
HYDROGEN	0.060%	CR	27012
NITROGEN	-.004%	HR	26951

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 31 Seconds

DATE & TIME	8/30/2016 8:52:14 AM	P_ID	083016AR
SAMPLE ID	SRM1650B	USER ID	alpha
WEIGHT (mg)	.590	MODE	CHN

		SIGNALS	
		ZR	26971
CARBON	87.846%	NR	26991
HYDROGEN	28.069%	CR	36759
NITROGEN	1.688%	HR	36756

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 28 Seconds

DATE & TIME	8/30/2016 8:57:09 AM	P_ID	083016AR
SAMPLE ID	MB	USER ID	alpha
WEIGHT (mg)	64.390	MODE	CHN

		SIGNALS	
		ZR	26987
CARBON	0.0%	NR	26986
HYDROGEN	0.079%	CR	27011
NITROGEN	-.012%	HR	26954

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 28 Seconds

DATE & TIME	8/30/2016 9:03:47 AM	P_ID	083016AR
SAMPLE ID	162523401	USER ID	alpha
WEIGHT (mg)	27.250	MODE	CHN

				SIGNALS	
				ZR	26991
CARBON	0.034%			NR	26986
HYDROGEN	0.397%			CR	27184
NITROGEN	-.040%			HR	27154
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	28 Seconds				

DATE & TIME	8/30/2016 9:08:42 AM	P_ID	083016AR
SAMPLE ID	162523401	USER ID	alpha
WEIGHT (mg)	27.310	MODE	CHN

				SIGNALS	
				ZR	26992
CARBON	0.027%			NR	27005
HYDROGEN	0.210%			CR	27168
NITROGEN	0.015%			HR	27114
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	28 Seconds				

DATE & TIME	8/30/2016 9:13:39 AM	P_ID	083016AR
SAMPLE ID	162523401D	USER ID	alpha
WEIGHT (mg)	20.140	MODE	CHN

				SIGNALS	
				ZR	27009
CARBON	0.012%			NR	27020
HYDROGEN	0.485%			CR	27087
NITROGEN	0.012%			HR	27052
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	28 Seconds				

DATE & TIME	8/30/2016 9:18:35 AM	P_ID	083016AR
SAMPLE ID	162523401D	USER ID	alpha
WEIGHT (mg)	22.270	MODE	CHN

				SIGNALS	
				ZR	27003
CARBON	0.011%			NR	27020
HYDROGEN	0.276%			CR	27086
NITROGEN	0.034%			HR	27034
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	28 Seconds				

DATE & TIME	8/30/2016 9:23:16 AM	P_ID	083016AR
SAMPLE ID	162523401MS	USER ID	alpha
WEIGHT (mg)	31.550	MODE	CHN

		SIGNALS	
		ZR	27002
CARBON	0.359%	NR	27022
HYDROGEN	8.681%	CR	29174
NITROGEN	0.032%	HR	30383

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 28 Seconds

DATE & TIME	8/30/2016 9:27:13 AM	P_ID	083016AR
SAMPLE ID	162523401MS	USER ID	alpha
WEIGHT (mg)	31.250	MODE	CHN

		SIGNALS	
		ZR	26987
CARBON	0.367%	NR	27004
HYDROGEN	8.533%	CR	29185
NITROGEN	0.024%	HR	30360

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 28 Seconds

DATE & TIME	8/30/2016 9:32:07 AM	P_ID	083016AR
SAMPLE ID	CCV	USER ID	alpha
WEIGHT (mg)	10.140	MODE	CHN

		SIGNALS	
		ZR	27008
CARBON	1.003%	NR	27205
HYDROGEN	30.005%	CR	29140
NITROGEN	1.547%	HR	30492

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 28 Seconds

DATE & TIME	8/30/2016 9:36:56 AM	P_ID	083016AR
SAMPLE ID	CCB	USER ID	alpha
WEIGHT (mg)	61.770	MODE	CHN

		SIGNALS	
		ZR	26998
CARBON	0.0%	NR	26995
HYDROGEN	0.093%	CR	27014
NITROGEN	-.015%	HR	26960

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 28 Seconds

DATE & TIME	8/30/2016 9:44:58 AM	P_ID	083016AR
SAMPLE ID	162523401MSD	USER ID	alpha
WEIGHT (mg)	20.210	MODE	CHN

		SIGNALS	
		ZR	27024
CARBON	0.580%	NR	27132
HYDROGEN	16.031%	CR	29357
NITROGEN	0.411%	HR	30802
BLANKS	22 -81 8		
K FACTORS	18.804 0.471 1.205		

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 28 Seconds

DATE & TIME	8/30/2016 9:49:51 AM	P_ID	083016AR
SAMPLE ID	162523401MSD	USER ID	alpha
WEIGHT (mg)	29.340	MODE	CHN

		SIGNALS	
		ZR	27026
CARBON	0.398%	NR	27038
HYDROGEN	12.237%	CR	29257
NITROGEN	0.011%	HR	30867
BLANKS	22 -81 8		
K FACTORS	18.804 0.471 1.205		

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 28 Seconds

DATE & TIME	8/30/2016 9:54:44 AM	P_ID	083016AR
SAMPLE ID	162523402	USER ID	alpha
WEIGHT (mg)	22.030	MODE	CHN

		SIGNALS	
		ZR	27025
CARBON	0.020%	NR	27020
HYDROGEN	0.366%	CR	27126
NITROGEN	-.049%	HR	27083
BLANKS	22 -81 8		
K FACTORS	18.804 0.471 1.205		

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 28 Seconds

DATE & TIME	8/30/2016 9:59:31 AM	P_ID	083016AR
SAMPLE ID	162523402	USER ID	alpha
WEIGHT (mg)	28.980	MODE	CHN

				SIGNALS	
				ZR	26999
CARBON	0.019%			NR	27003
HYDROGEN	0.169%			CR	27126
NITROGEN	-.011%			HR	27068
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	28 Seconds				

DATE & TIME	8/30/2016 10:18:34 AM	P_ID	083016AR
SAMPLE ID	162523402MS	USER ID	alpha
WEIGHT (mg)	22.430	MODE	CHN

				SIGNALS	
				ZR	27036
CARBON	0.507%			NR	27050
HYDROGEN	10.071%			CR	29209
NITROGEN	0.022%			HR	30192
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	28 Seconds				

DATE & TIME	8/30/2016 10:23:36 AM	P_ID	083016AR
SAMPLE ID	162523402MS	USER ID	alpha
WEIGHT (mg)	23.690	MODE	CHN

				SIGNALS	
				ZR	27024
CARBON	0.475%			NR	27107
HYDROGEN	13.130%			CR	29244
NITROGEN	0.263%			HR	30628
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	36 Seconds				

DATE & TIME	8/30/2016 10:28:39 AM	P_ID	083016AR
SAMPLE ID	162523402MSD	USER ID	alpha
WEIGHT (mg)	19.640	MODE	CHN

				SIGNALS	
				ZR	27033
CARBON	0.567%			NR	27089
HYDROGEN	9.037%			CR	29205
NITROGEN	0.203%			HR	29960
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	37 Seconds				

DATE & TIME	8/30/2016 10:33:37 AM	P_ID	083016AR
SAMPLE ID	162523402MSD	USER ID	alpha
WEIGHT (mg)	22.810	MODE	CHN

		SIGNALS	
		ZR	27017
CARBON	0.494%	NR	27074
HYDROGEN	5.845%	CR	29215
NITROGEN	0.178%	HR	29762

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 37 Seconds

DATE & TIME	8/30/2016 10:38:38 AM	P_ID	083016AR
SAMPLE ID	CCV	USER ID	alpha
WEIGHT (mg)	10.200	MODE	CHN

		SIGNALS	
		ZR	26987
CARBON	-.016%	NR	26988
HYDROGEN	-.021%	CR	26979
NITROGEN	-.057%	HR	26897

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 36 Seconds

DATE & TIME	8/30/2016 10:43:38 AM	P_ID	083016AR
SAMPLE ID	CCB	USER ID	alpha
WEIGHT (mg)	74.380	MODE	CHN

		SIGNALS	
		ZR	26991
CARBON	-.001%	NR	27008
HYDROGEN	0.006%	CR	27021
NITROGEN	0.010%	HR	26942

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 34 Seconds

DATE & TIME	8/30/2016 10:49:13 AM	P_ID	083016AR
SAMPLE ID	CCV	USER ID	alpha
WEIGHT (mg)	10.230	MODE	CHN

		SIGNALS	
		ZR	26993
CARBON	1.046%	NR	27097
HYDROGEN	8.094%	CR	29131
NITROGEN	0.779%	HR	29440

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 29 Seconds

DATE & TIME	8/30/2016 10:56:33 AM	P_ID	083016AR
SAMPLE ID	SRM1944	USER ID	alpha
WEIGHT (mg)	5.690	MODE	CHN

		SIGNALS	
		ZR	27005
CARBON	4.514%	NR	27115
HYDROGEN	1.754%	CR	31967
NITROGEN	1.488%	HR	31933
BLANKS	22 -81 8		
K FACTORS	18.804 0.471 1.205		

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 32 Seconds

DATE & TIME	8/30/2016 11:01:28 AM	P_ID	083016AR
SAMPLE ID	MB	USER ID	alpha
WEIGHT (mg)	65.480	MODE	CHN

		SIGNALS	
		ZR	26990
CARBON	0.001%	NR	26991
HYDROGEN	0.071%	CR	27030
NITROGEN	-.009%	HR	26971
BLANKS	22 -81 8		
K FACTORS	18.804 0.471 1.205		

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 28 Seconds

DATE & TIME	8/30/2016 11:06:23 AM	P_ID	083016AR
SAMPLE ID	SRM1944	USER ID	alpha
WEIGHT (mg)	8.880	MODE	CHN

		SIGNALS	
		ZR	26991
CARBON	4.290%	NR	27128
HYDROGEN	1.315%	CR	34314
NITROGEN	1.206%	HR	34288
BLANKS	22 -81 8		
K FACTORS	18.804 0.471 1.205		

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 29 Seconds

DATE & TIME	8/30/2016 11:11:19 AM	P_ID	083016AR
SAMPLE ID	MB	USER ID	alpha
WEIGHT (mg)	81.720	MODE	CHN

				SIGNALS	
				ZR	26997
CARBON	0.003%			NR	26995
HYDROGEN	0.065%			CR	27056
NITROGEN	-.010%			HR	27000
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/30/2016 11:22:14 AM	P_ID	083016AR
SAMPLE ID	162658501	USER ID	alpha
WEIGHT (mg)	13.460	MODE	CHN

				SIGNALS	
				ZR	27009
CARBON	0.121%			NR	27023
HYDROGEN	0.315%			CR	27350
NITROGEN	0.037%			HR	27289
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/30/2016 11:27:10 AM	P_ID	083016AR
SAMPLE ID	162658501D	USER ID	alpha
WEIGHT (mg)	10.710	MODE	CHN

				SIGNALS	
				ZR	26989
CARBON	0.118%			NR	27006
HYDROGEN	0.555%			CR	27265
NITROGEN	0.070%			HR	27212
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/30/2016 11:32:06 AM	P_ID	083016AR
SAMPLE ID	162658501MS	USER ID	alpha
WEIGHT (mg)	11.210	MODE	CHN

				SIGNALS	
				ZR	26995
CARBON	1.078%			NR	27032
HYDROGEN	9.565%			CR	29327
NITROGEN	0.215%			HR	29751
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/30/2016 11:36:58 AM	P_ID	083016AR
SAMPLE ID	162658501MSD	USER ID	alpha
WEIGHT (mg)	11.160	MODE	CHN

		SIGNALS	
		ZR	26994
CARBON	1.076%	NR	27009
HYDROGEN	11.015%	CR	29288
NITROGEN	0.052%	HR	29786

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 28 Seconds

DATE & TIME	8/30/2016 11:41:32 AM	P_ID	083016AR
SAMPLE ID	162680217	USER ID	alpha
WEIGHT (mg)	13.350	MODE	CHN

		SIGNALS	
		ZR	26982
CARBON	0.086%	NR	26984
HYDROGEN	1.034%	CR	27222
NITROGEN	-.037%	HR	27206

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 29 Seconds

DATE & TIME	8/30/2016 11:46:20 AM	P_ID	083016AR
SAMPLE ID	162680217	USER ID	alpha
WEIGHT (mg)	14.380	MODE	CHN

		SIGNALS	
		ZR	26963
CARBON	0.067%	NR	26969
HYDROGEN	1.063%	CR	27171
NITROGEN	-.012%	HR	27162

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 29 Seconds

DATE & TIME	8/30/2016 11:51:13 AM	P_ID	083016AR
SAMPLE ID	CCV	USER ID	alpha
WEIGHT (mg)	10.050	MODE	CHN

		SIGNALS	
		ZR	26975
CARBON	0.882%	NR	27258
HYDROGEN	7.267%	CR	28946
NITROGEN	2.271%	HR	29209

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205
FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	28 Seconds		

DATE & TIME	8/30/2016 11:56:03 AM	P_ID	083016AR
SAMPLE ID	CCB	USER ID	alpha
WEIGHT (mg)	81.690	MODE	CHN

		SIGNALS	
		ZR	26971
CARBON	-.001%	NR	26968
HYDROGEN	0.195%	CR	26974
NITROGEN	-.011%	HR	26968
BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205
FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	29 Seconds		

DATE & TIME	8/30/2016 12:28:11 PM	P_ID	083016AR
SAMPLE ID	162530001	USER ID	alpha
WEIGHT (mg)	17.820	MODE	CHN

		SIGNALS	
		ZR	26996
CARBON	0.762%	NR	27033
HYDROGEN	0.238%	CR	29607
NITROGEN	0.135%	HR	29546
BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205
FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	30 Seconds		

DATE & TIME	8/30/2016 12:33:00 PM	P_ID	083016AR
SAMPLE ID	162530001	USER ID	alpha
WEIGHT (mg)	22.520	MODE	CHN

		SIGNALS	
		ZR	26967
CARBON	0.643%	NR	27004
HYDROGEN	0.321%	CR	29750
NITROGEN	0.107%	HR	29703
BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205
FILL	COMB	BOOST1	BOOST2
1	2	1	1
FILL TIME	29 Seconds		

DATE & TIME	8/30/2016 12:37:53 PM	P_ID	083016AR
SAMPLE ID	162530002	USER ID	alpha
WEIGHT (mg)	19.740	MODE	CHN

				SIGNALS	
				ZR	26953
CARBON	0.483%			NR	26987
HYDROGEN	0.215%			CR	28802
NITROGEN	0.109%			HR	28741
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/30/2016 12:42:48 PM	P_ID	083016AR
SAMPLE ID	162530002	USER ID	alpha
WEIGHT (mg)	18.370	MODE	CHN

				SIGNALS	
				ZR	26955
CARBON	0.551%			NR	26979
HYDROGEN	0.162%			CR	28906
NITROGEN	0.072%			HR	28839
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/30/2016 12:47:39 PM	P_ID	083016AR
SAMPLE ID	162530003	USER ID	alpha
WEIGHT (mg)	16.150	MODE	CHN

				SIGNALS	
				ZR	26955
CARBON	0.360%			NR	26966
HYDROGEN	0.171%			CR	28081
NITROGEN	0.015%			HR	28013
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/30/2016 12:52:30 PM	P_ID	083016AR
SAMPLE ID	162530003	USER ID	alpha
WEIGHT (mg)	16.710	MODE	CHN

				SIGNALS	
				ZR	26958
CARBON	0.269%			NR	26968
HYDROGEN	0.114%			CR	27836
NITROGEN	0.010%			HR	27764
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/30/2016 12:57:25 PM	P_ID	083016AR
SAMPLE ID	162530004	USER ID	alpha
WEIGHT (mg)	14.990	MODE	CHN

				SIGNALS	
				ZR	26955
CARBON	2.363%			NR	27082
HYDROGEN	0.751%			CR	33766
NITROGEN	0.659%			HR	33738
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/30/2016 1:02:19 PM	P_ID	083016AR
SAMPLE ID	162530004	USER ID	alpha
WEIGHT (mg)	15.180	MODE	CHN

				SIGNALS	
				ZR	26977
CARBON	1.983%			NR	27086
HYDROGEN	1.133%			CR	32767
NITROGEN	0.552%			HR	32767
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/30/2016 1:54:15 PM	P_ID	083016AR
SAMPLE ID	CCV	USER ID	alpha
WEIGHT (mg)	10.150	MODE	CHN

				SIGNALS	
				ZR	27001
CARBON	-.030%			NR	27182
HYDROGEN	0.732%			CR	27147
NITROGEN	1.414%			HR	27101
BLANKS	22	-81	8		
K FACTORS	18.804	0.471	1.205		
FILL	COMB	BOOST1	BOOST2		
1	2	1	1		
FILL TIME	29 Seconds				

DATE & TIME	8/30/2016 1:58:53 PM	P_ID	083016AR
SAMPLE ID	CCB	USER ID	alpha
WEIGHT (mg)	72.340	MODE	CHN

		SIGNALS	
		ZR	26974
CARBON	0.150%	NR	26978
HYDROGEN	0.144%	CR	29047
NITROGEN	-.005%	HR	29015

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 29 Seconds

DATE & TIME	8/30/2016 2:19:21 PM	P_ID	083016AR
SAMPLE ID	CCV	USER ID	alpha
WEIGHT (mg)	10.170	MODE	CHN

		SIGNALS	
		ZR	27011
CARBON	1.068%	NR	27200
HYDROGEN	39.916%	CR	29265
NITROGEN	1.477%	HR	31096

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 36 Seconds

DATE & TIME	8/30/2016 2:24:17 PM	P_ID	083016AR
SAMPLE ID	CCB	USER ID	alpha
WEIGHT (mg)	76.790	MODE	CHN

		SIGNALS	
		ZR	26958
CARBON	0.0%	NR	26954
HYDROGEN	0.080%	CR	26973
NITROGEN	-.013%	HR	26921

BLANKS	22	-81	8
K FACTORS	18.804	0.471	1.205

FILL	COMB	BOOST1	BOOST2
1	2	1	1

FILL TIME 29 Seconds

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Aug 30 2016, 04:21 pm

Work Group: WG927320 for Department: 7 Wet Chemistry

Created: 30-AUG-16 Due: Operator: AR

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1625234-01	LDW-BA-PC-ENRMAT-SAN	S	A2-TOC-9060-2REPS	SOIL	DONE	U	0907	0901	S0	Glass-A.5
L1625234-02	LDW-BA-PC-ENRMAT-GRA	S	A2-TOC-9060-2REPS	SOIL	DONE	U	0907	0901	S0	Glass-A.5
WG927320-1	Laboratory Method Bl	S	A2-TOC-9060-2REPS	SOIL	DONE	U				
WG927320-2	Standard Reference M	S	A2-TOC-9060-2REPS	SOIL	DONE	U				
WG927320-3	Duplicate Sample	S	A2-TOC-9060-2REPS	SOIL	DONE	U				
WG927320-4	Matrix Spike	S	A2-TOC-9060-2REPS	SOIL	DONE	U				
WG927320-5	Matrix Spike Duplica	S	A2-TOC-9060-2REPS	SOIL	DONE	U				
WG927320-6	Matrix Spike	S	A2-TOC-9060-2REPS	SOIL	DONE	U				
WG927320-7	Matrix Spike Duplica	S	A2-TOC-9060-2REPS	SOIL	DONE	U				

Comments:

WG927320-3	L1625234-01
WG927320-4	L1625234-01
WG927320-5	L1625234-01
WG927320-6	L1625234-02
WG927320-7	L1625234-02

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Aug 30 2016, 04:21 pm

Work Group: WG927380 for Department: 7 Wet Chemistry

Created: 30-AUG-16 Due: Operator: AR

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1625234-01	LDW-BA-PC-ENRMAT-SAN	S	A2-SOOT	SOIL	DONE	U	0907	0901	S0	Glass-A.5
L1625234-02	LDW-BA-PC-ENRMAT-GRA	S	A2-SOOT	SOIL	DONE	U	0907	0901	S0	Glass-A.5
WG927380-1	Laboratory Method Bl	S	A2-SOOT	SOIL	DONE	U				
WG927380-2	Standard Reference M	S	A2-SOOT	SOIL	DONE	U				
WG927380-3	Duplicate Sample	S	A2-SOOT	SOIL	DONE	U				
WG927380-4	Matrix Spike	S	A2-SOOT	SOIL	DONE	U				
WG927380-5	Matrix Spike Duplica	S	A2-SOOT	SOIL	DONE	U				
WG927380-6	Matrix Spike	S	A2-SOOT	SOIL	DONE	U				
WG927380-7	Matrix Spike Duplica	S	A2-SOOT	SOIL	DONE	U				

Comments:

WG927380-3	L1625234-01
WG927380-4	L1625234-01
WG927380-5	L1625234-01
WG927380-6	L1625234-02
WG927380-7	L1625234-02

Sample Preparation

TOC Instrument: #1 - SN: 241N8102003 #3 - SN: 241L1308211
(Circle one) #2 - SN: 241N9041221

Date: 8/29/16
Analyst: CW
2° Review:
CCV ID: WW051116 C
SRM 1944 ID: W5081814A
Filter Aid ID: W5120915A
ICV ID: WW051116 F
Balance ID: 001712
Other SRM ID:

Login	SAMPLE	QC D/MS	TRAY LOCATION	AUTO SLOT	WEIGHT (mg)
~~Conditioning Std~~ K				1	10.40
Blank				2	71.18
K Factor				3	10.37
~~Blank~~ K				4	10.56
~~K Factor~~ ICV				5	10.42
~~K Factor~~ ICB				6	91.28
~~ICV~~ ICV				7	51.31
~~ICB~~ SRM1944				8	6.66
~~LCS~~ MB				9	55.49
~~Blank~~ SRM1944				10	10.26
MB				11	75.22
L1625234	01			12	23.89
	01			13	23.42
	01D			14	23.68
	01D			15	19.42
	01MS	10.55		16	18.51
	01MS	10.00		17	21.87
CCV				18	10.56
CCV CCB				19	90.34
CCB CCV				20	10.21
CCB				21	59.39
MB				22	75.34

Login	SAMPLE	QC D/MS	TRAY LOCATION	AUTO SLOT	WEIGHT (mg)
L1625234	01D RR			23	26.20
	01D RR			24	16.20
	01MS RR	10.19		25	20.95
	01MS RR	10.36		26	29.60
	01MSD	10.29		27	21.74
	01MSD	10.53		28	20.90
	02			29	26.69
	02			30	23.31
CCV				31	10.62
CCB				32	122.65
	02RR			33	17.52
	02RR			34	26.33
	02MS	10.18		35	19.93
	02MS	10.53		36	25.09
	02MSD	10.12		37	12.84
	02MSD	10.14		38	17.17
	02MS RR	10.42		39	17.76
	02MS RR	10.01		40	18.36
	02MSD RR	10.14		41	16.92
	02MSD RR	10.30		42	19.71
CCV				43	9.82
CCB				44	67.14

Document Type: Form

Pre-Qualtrax Document ID: 107-02

TOC Instrument: #1 - SN: 241N8102003 #3 - SN: 241L1308211
(Circle one) #2 - SN: 241N9041221

Date: 8/29/14
Analyst:
2° Review:
CCV ID:
SRM 1944 ID:
Filter Aid ID:
ICV ID:
Balance ID:
Other SRM ID:

Login	SAMPLE	QC D/MS	TRAY LOCATION	AUTO SLOT	WEIGHT (mg)
Conditioning Std					
Blank					
K Factor					
Blank					
K Factor					
K Factor					
~~ICV~~ CCV				45	10.09
~~ICB~~ CCB				46	76.03
LCS					
Blank					
CCV					
CCB					

Login	SAMPLE	QC D/MS	TRAY LOCATION	AUTO SLOT	WEIGHT (mg)
CCV					
CCB					
CCV					
CCB					

TOC Instrument: #1 - SN: 241N8102003 #3 - SN: 241L1308211
(Circle one) #2 - SN: 241N9041221

Date: 8/30/16
Analyst: AR
2° Review:
CCV ID: WN051116C
SRM 1944 ID: WS081814A
Filter Aid ID: WS120415A
ICV ID: WN051116F
Balance ID: 001712
Other SRM ID:

Login	SAMPLE	QC D/MS	TRAY LOCATION	AUTO SLOT	WEIGHT (mg)
~~Conditioning Std~~ K				01	10.08
Blank				02	56.52
K Factor				03	10.23
~~Blank~~ K				04	10.13
~~K Factor~~ ICV				05	10.22
~~K Factor~~ ICB				06	83.80
~~ICV~~ HICV				07	51.00
~~ICB~~ SRM1650B				08	.32
~~LCS~~ MB				09	70.38
~~Blank~~ SRM1650B				10	.59
MB				11	64.39
L1625234	01			12	27.25
	01			13	27.31
	01D			14	20.14
	01D			15	22.27
	01MS	10.24		16	31.55
	01MS	10.24		17	31.25
CCV				18	10.14
~~CCV~~ CCB				19	61.77
~~CCB~~ L1625234	01MSD	10.07		20	20.21
	01MSD	10.14		21	29.34
	02			22	22.03

Login	SAMPLE	QC D/MS	TRAY LOCATION	AUTO SLOT	WEIGHT (mg)
L1625234	02			23	28.98
	02MS	10.15		24	22.43
	02MS	10.18		25	23.69
	02MSD	10.15		26	19.64
	02MSD	10.19		27	22.81
CCV				28	10.20 *
CCB				29	74.38
CCV				30	10.23
~~CCV~~ SRM1944				31	5.69
~~CCB~~ MB				32	65.48
SRM1944				33	8.88
MB				34	81.72
L1626585	01			35	13.46
	01D			36	10.71
	01MS	10.18		37	11.21
	01MSD	10.03		38	11.16
L1626802	17			39	13.35
	17			40	14.38
CCV				41	10.05
CCB				42	81.69
~~CCV~~ L1625300	01			43	17.82
~~CCB~~	01			44	22.52

* autosampler error AR 8/30

TOC Instrument: #1 - SN: 241N8102003 #3 - SN: 241L1308211
(Circle one) #2 - SN: 241N9041221

Date: 8/30/16
Analyst:
2° Review:
CCV ID:
SRM 1944 ID:
Filter Aid ID:
ICV ID:
Balance ID:
Other SRM ID:

Login	SAMPLE	QC D/MS	TRAY LOCATION	AUTO SLOT	WEIGHT (mg)
Conditioning Std					
Blank					
~~K Factor~~ L1625300	02			45	19.74
~~Blank~~	02			46	18.37
~~K Factor~~	03			47	16.15
~~K Factor~~	03			48	16.71
~~ICV~~	04			49	14.99
~~ICB~~	04			50	15.18
~~LCS~~ CCV				51	10.15 *
~~Blank~~ CCB				52	72.34 *
CCV				53	10.17
CCB				54	76.79
CCV					
CCB					

Login	SAMPLE	QC D/MS	TRAY LOCATION	AUTO SLOT	WEIGHT (mg)
CCV					
CCB					
CCV					
CCB					

* autosampler error AR 8/30

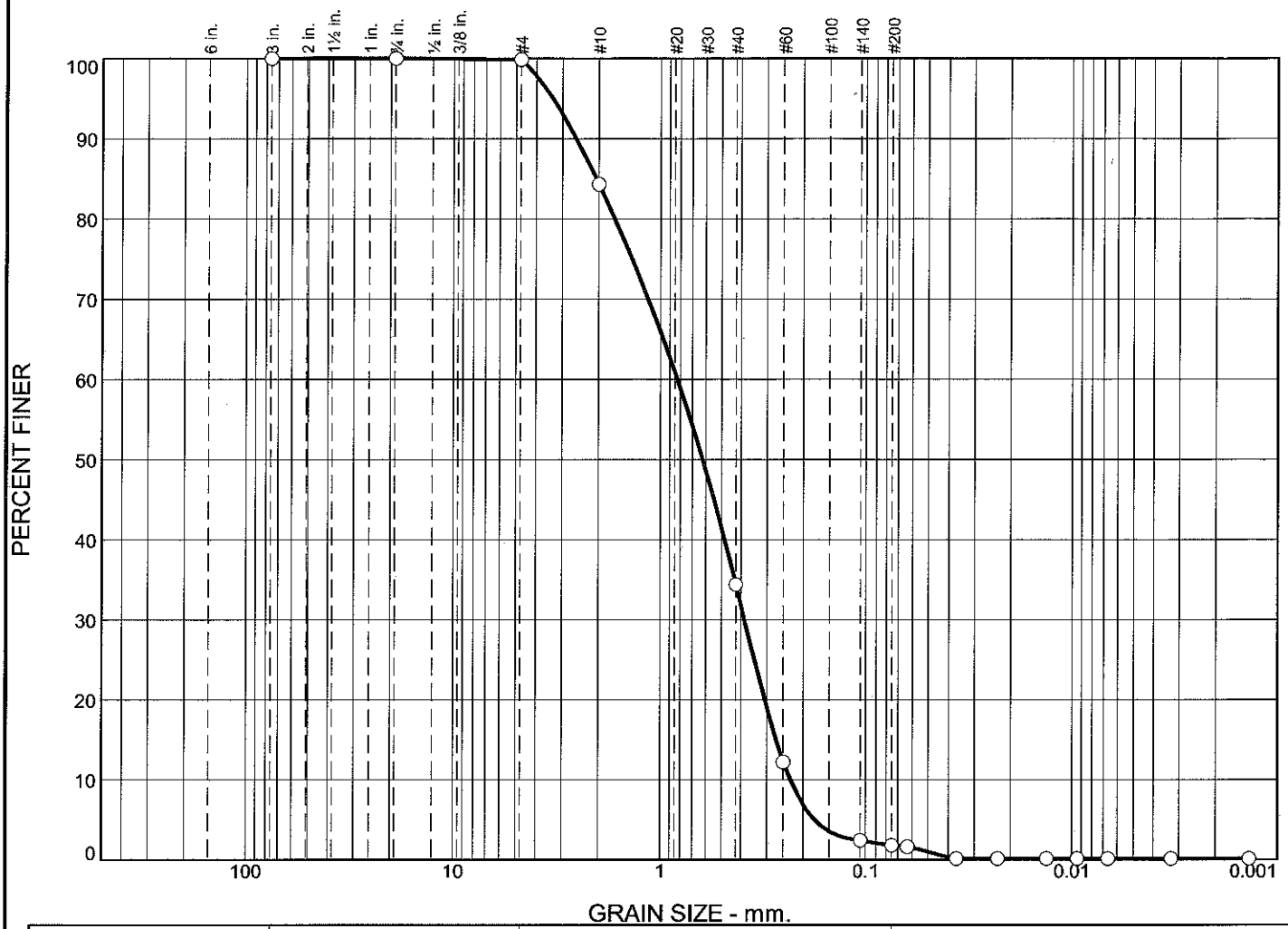
Grainsize Analysis

Sample Raw Data

ASTM D422-63

GRAIN SIZE ANALYSIS

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.2	15.5	49.9	32.6	1.6	0.2

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.0607	0.8294	0.6235	0.3857	0.2714	0.2314	0.78	3.58

Material Description	USCS	AASHTO
○		

Project No. **Client:**

Project:

○ **Source:** LDW-BA-PC-ENRMAT-SAND **Sample No.:** L1625234-01

Remarks:

Alpha Analytical

Mansfield, MA

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

9/8/2016

Location: LDW-BA-PC-ENRMAT-SAND

Sample Number: L1625234-01

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 157.22
Tare Wt. = 0.00
Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
157.22	0.00	3"	0.00	0.00	100.0
		.75"	0.00	0.00	100.0
		#4	0.27	0.00	99.8
		#10	24.41	0.00	84.3
		#40	78.49	0.00	34.4
		#60	34.85	0.00	12.2
		#140	15.42	0.00	2.4
		#200	0.96	0.00	1.8
		#230	0.30	0.00	1.6

Hydrometer Test Data

Hydrometer test uses material passing #200
Percent passing #200 based upon complete sample = 1.8
Weight of hydrometer sample =157.22
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = 1
Meniscus correction only = 0.0
Specific gravity of solids = 2.65
Hydrometer type = 151H
Hydrometer effective depth equation: L = 16.294964 - 0.2645 **x Rm**

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
2.00	20.0	1.0075	1.0085	0.0136	7.5	14.3	0.0365	0.2
5.00	20.0	1.0075	1.0085	0.0136	7.5	14.3	0.0231	0.2
15.00	20.0	1.0075	1.0085	0.0136	7.5	14.3	0.0133	0.2
30.00	20.0	1.0075	1.0085	0.0136	7.5	14.3	0.0094	0.2
60.00	20.0	1.0075	1.0085	0.0136	7.5	14.3	0.0067	0.2
250.00	20.0	1.0070	1.0080	0.0136	7.0	14.4	0.0033	0.1
1440.00	20.0	1.0070	1.0080	0.0136	7.0	14.4	0.0014	0.1

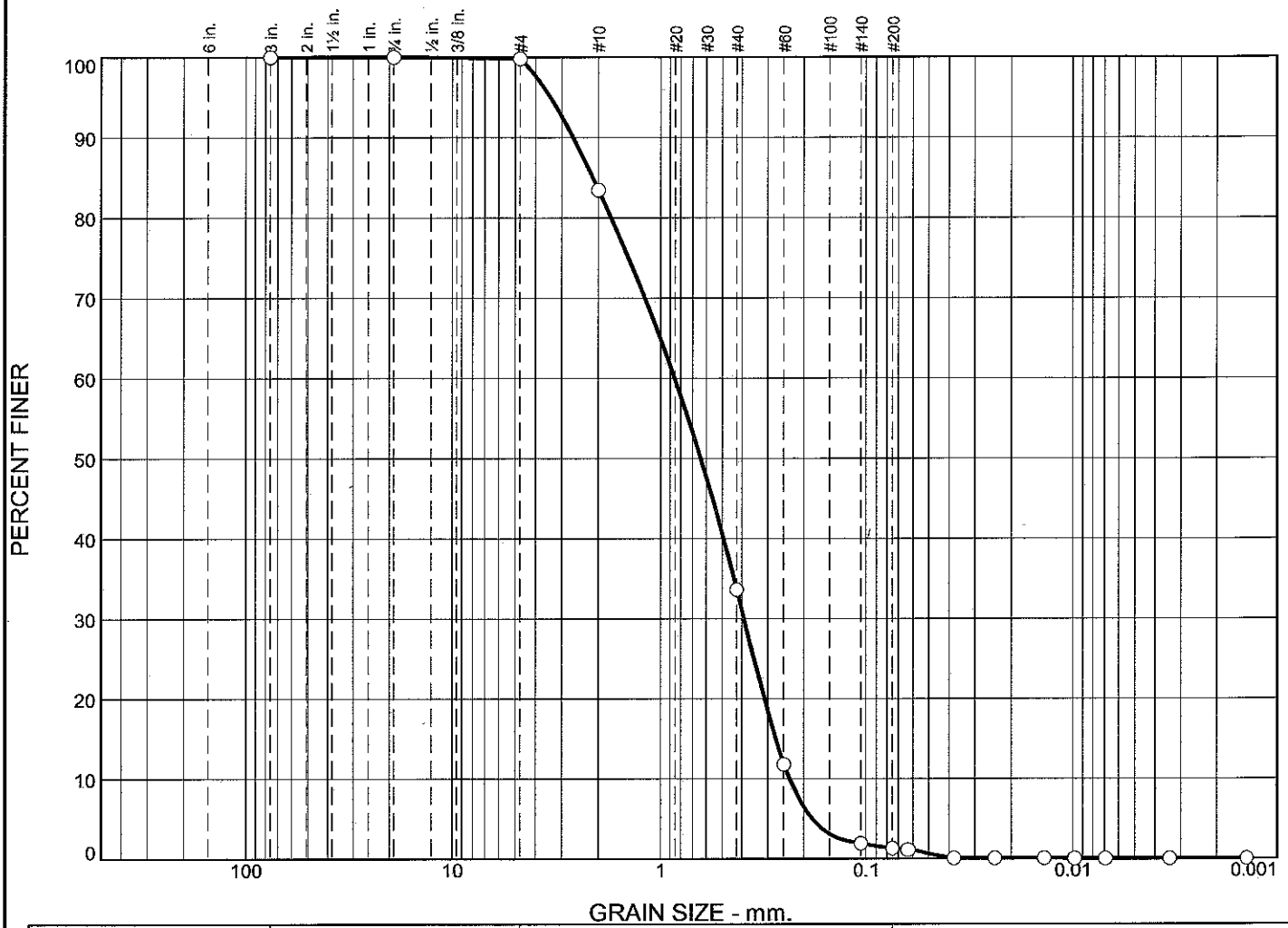
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.2	0.2	15.5	49.9	32.6	98.0	1.6	0.2	1.8

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.2314	0.2714	0.3081	0.3857	0.6235	0.8294	1.6732	2.0607	2.5809	3.3471

Fineness Modulus	C_u	C_c
2.70	3.58	0.78

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.2	16.4	49.8	32.3	1.3	0.0

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.1333	0.8570	0.6400	0.3914	0.2747	0.2348	0.76	3.65

	Material Description	USCS	AASHTO
○			

Project No. **Client:**

Project:

○ **Source:** LDW-BA-PC-ENRMAT-SAND **Sample No.:** WG929977-1

Remarks:

Alpha Analytical

Mansfield, MA

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

9/8/2016

Location: LDW-BA-PC-ENRMAT-SAND

Sample Number: WG929977-1

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 170.75
Tare Wt. = 0.00
Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
170.75	0.00	3"	0.00	0.00	100.0
		.75"	0.00	0.00	100.0
		#4	0.36	0.00	99.8
		#10	27.90	0.00	83.4
		#40	85.04	0.00	33.6
		#60	37.29	0.00	11.8
		#140	16.93	0.00	1.9
		#200	1.02	0.00	1.3
		#230	0.30	0.00	1.1

Hydrometer Test Data

Hydrometer test uses material passing #200
Percent passing #200 based upon complete sample = 1.3
Weight of hydrometer sample =170.75
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = 1
Meniscus correction only = 0.0
Specific gravity of solids = 2.65
Hydrometer type = 151H
Hydrometer effective depth equation: L = 16.294964 - 0.2645 **x Rm**

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
2.00	20.0	1.0035	1.0045	0.0136	3.5	15.4	0.0378	0.1
5.00	20.0	1.0035	1.0045	0.0136	3.5	15.4	0.0239	0.1
15.00	20.0	1.0035	1.0045	0.0136	3.5	15.4	0.0138	0.1
30.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0098	0.0
60.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0069	0.0
250.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0034	0.0
1440.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0014	0.0

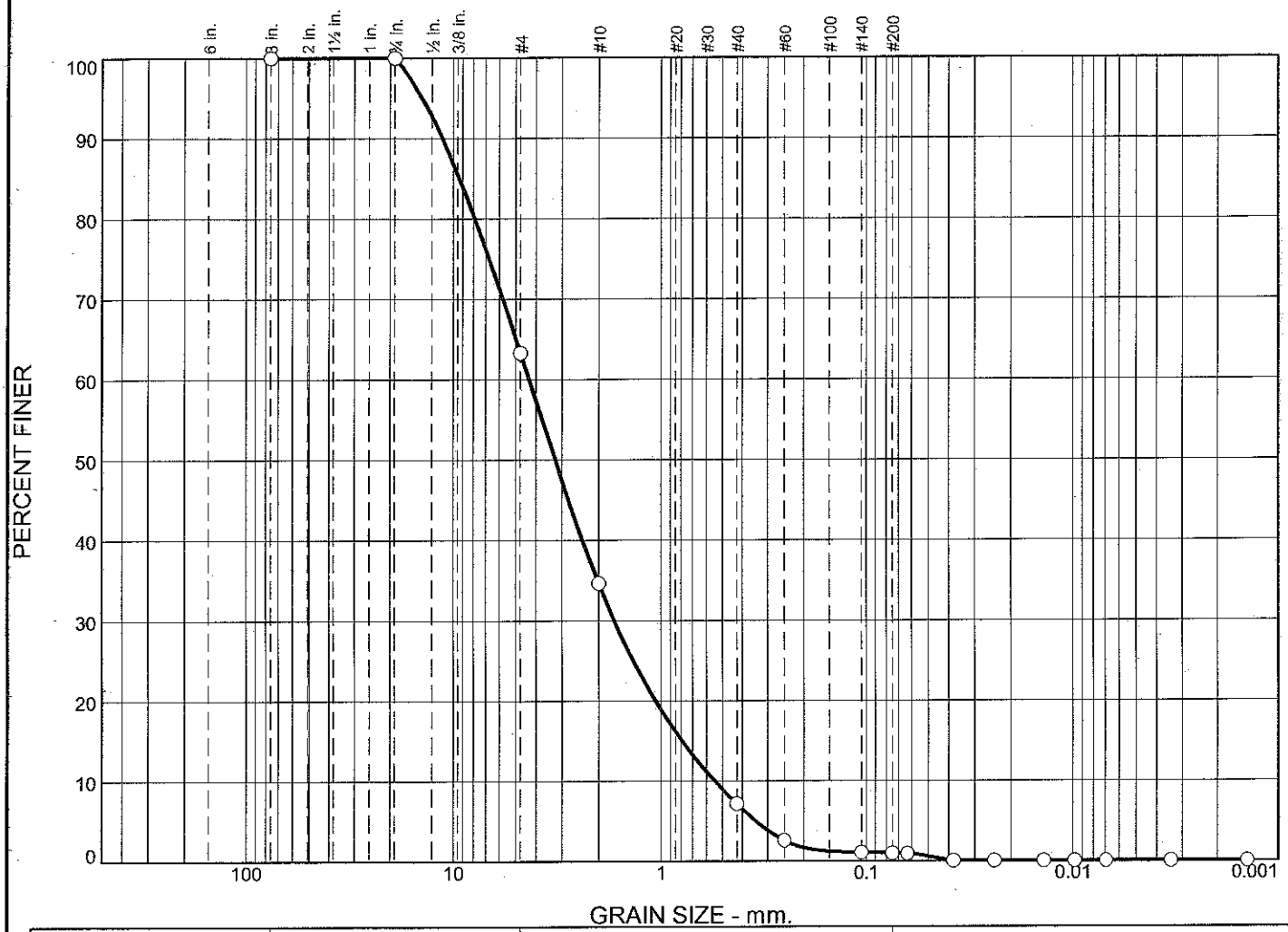
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.2	0.2	16.4	49.8	32.3	98.5	1.3	0.0	1.3

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.2348	0.2747	0.3119	0.3914	0.6400	0.8570	1.7387	2.1333	2.6552	3.4126

Fineness Modulus	C_u	C_c
2.74	3.65	0.76

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	36.7	28.7	27.4	6.2	1.0	0.0

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			9.3638	4.3218	3.2407	1.6819	0.7895	0.5458	1.20	7.92

Material Description	USCS	AASHTO
○	SW	

Project No. **Client:**

Project:

○ **Source:** LDW-BA-PC-ENRMAT-GRAVSAND **Sample No.:** L1625234-02

Remarks:

Alpha Analytical

Mansfield, MA

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

9/9/2016

Location: LDW-BA-PC-ENRMAT-GRAVSAND
Sample Number: L1625234-02
USCS Classification: SW

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 145.20
Tare Wt. = 0.00
Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
145.20	0.00	3"	0.00	0.00	100.0
		.75"	0.00	0.00	100.0
		#4	53.31	0.00	63.3
		#10	41.58	0.00	34.6
		#40	39.91	0.00	7.2
		#60	6.63	0.00	2.6
		#140	2.18	0.00	1.1
		#200	0.17	0.00	1.0
		#230	0.08	0.00	0.9

Hydrometer Test Data

Hydrometer test uses material passing #200
Percent passing #200 based upon complete sample = 1.0
Weight of hydrometer sample =145.20
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = 1
Meniscus correction only = 0.0
Specific gravity of solids = 2.65
Hydrometer type = 151H
Hydrometer effective depth equation: L = 16.294964 - 0.2645 x Rm

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
2.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0380	0.0
5.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0240	0.0
15.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0139	0.0
30.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0098	0.0
60.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0069	0.0
250.00	20.0	1.0025	1.0035	0.0136	2.5	15.6	0.0034	0.0
1440.00	20.0	1.0025	1.0035	0.0136	2.5	15.6	0.0014	0.0

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	36.7	36.7	28.7	27.4	6.2	62.3	1.0	0.0	1.0

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.5458	0.7895	1.0630	1.6819	3.2407	4.3218	7.8943	9.3638	11.3090	14.1066

Fineness Modulus	C_u	C_c
4.73	7.92	1.20

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 12 2016, 02:55 pm

Work Group: WG928105 for Department: 7 Wet Chemistry

Created: 01-SEP-16 Due: Operator: AR

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1625234-02	LDW-BA-PC-ENRMAT-GRA	C	A2-HYDRO-CFINE	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-02	LDW-BA-PC-ENRMAT-GRA	C	A2-HYDRO-CGRAVEL	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-02	LDW-BA-PC-ENRMAT-GRA	C	A2-HYDRO-TSAND	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-02	LDW-BA-PC-ENRMAT-GRA	C	A2-HYDRO-TGRAVEL	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-02	LDW-BA-PC-ENRMAT-GRA	C	A2-HYDRO-TFINE	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-02	LDW-BA-PC-ENRMAT-GRA	C	A2-HYDRO-SFINE	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-02	LDW-BA-PC-ENRMAT-GRA	C	A2-HYDRO-MSAND	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-02	LDW-BA-PC-ENRMAT-GRA	C	A2-HYDRO-FSAND	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-02	LDW-BA-PC-ENRMAT-GRA	C	A2-HYDRO-FGRAVEL	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-02	LDW-BA-PC-ENRMAT-GRA	C	A2-HYDRO-CSAND	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-02	LDW-BA-PC-ENRMAT-GRA	C	A2-HYDRO-COBBLES	SOIL	DONE	U		0901	S0	Glass-A.25
L1625300-01	#1	C	A2-HYDRO-CFINE	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-01	#1	C	A2-HYDRO-TGRAVEL	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-01	#1	C	A2-HYDRO-TFINE	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-01	#1	C	A2-HYDRO-SFINE	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-01	#1	C	A2-HYDRO-MSAND	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-01	#1	C	A2-HYDRO-TSAND	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-01	#1	C	A2-HYDRO-FGRAVEL	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-01	#1	C	A2-HYDRO-CSAND	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-01	#1	C	A2-HYDRO-COBBLES	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-01	#1	C	A2-HYDRO-CGRAVEL	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-01	#1	C	A2-HYDRO-FSAND	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-02	#2	C	A2-HYDRO-CFINE	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-02	#2	C	A2-HYDRO-CGRAVEL	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-02	#2	C	A2-HYDRO-COBBLES	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-02	#2	C	A2-HYDRO-CSAND	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-02	#2	C	A2-HYDRO-FGRAVEL	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-02	#2	C	A2-HYDRO-FSAND	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-02	#2	C	A2-HYDRO-MSAND	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-02	#2	C	A2-HYDRO-SFINE	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-02	#2	C	A2-HYDRO-TFINE	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-02	#2	C	A2-HYDRO-TGRAVEL	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-02	#2	C	A2-HYDRO-TSAND	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-03	#3	C	A2-HYDRO-TSAND	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-03	#3	C	A2-HYDRO-TGRAVEL	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-03	#3	C	A2-HYDRO-TFINE	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-03	#3	C	A2-HYDRO-SFINE	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-03	#3	C	A2-HYDRO-MSAND	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-03	#3	C	A2-HYDRO-CFINE	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-03	#3	C	A2-HYDRO-FGRAVEL	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-03	#3	C	A2-HYDRO-CSAND	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-03	#3	C	A2-HYDRO-COBBLES	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-03	#3	C	A2-HYDRO-CGRAVEL	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-03	#3	C	A2-HYDRO-FSAND	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-04	#4	C	A2-HYDRO-TGRAVEL	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-04	#4	C	A2-HYDRO-TSAND	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-04	#4	C	A2-HYDRO-TFINE	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-04	#4	C	A2-HYDRO-SFINE	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-04	#4	C	A2-HYDRO-MSAND	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-04	#4	C	A2-HYDRO-FSAND	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-04	#4	C	A2-HYDRO-FGRAVEL	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-04	#4	C	A2-HYDRO-CSAND	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-04	#4	C	A2-HYDRO-COBBLES	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-04	#4	C	A2-HYDRO-CGRAVEL	SOIL	DONE	U		0902	S0	Plastic-A-GS
L1625300-04	#4	C	A2-HYDRO-CFINE	SOIL	DONE	U		0902	S0	Plastic-A-GS
WG928105-1	Duplicate Sample	S	A2-HYDRO-CSAND	SOIL	DONE	U				
WG928105-1	Duplicate Sample	S	A2-HYDRO-FGRAVEL	SOIL	DONE	U				
WG928105-1	Duplicate Sample	S	A2-HYDRO-MSAND	SOIL	DONE	U				
WG928105-1	Duplicate Sample	S	A2-HYDRO-FSAND	SOIL	DONE	U				
WG928105-1	Duplicate Sample	S	A2-HYDRO-CGRAVEL	SOIL	DONE	U				
WG928105-1	Duplicate Sample	S	A2-HYDRO-TSAND	SOIL	DONE	U				
WG928105-1	Duplicate Sample	S	A2-HYDRO-TGRAVEL	SOIL	DONE	U				

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 12 2016, 02:55 pm

Work Group: WG928105 for Department: 7 Wet Chemistry

Created: 01-SEP-16 Due: Operator: AR

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
WG928105-1	Duplicate Sample	S	A2-HYDRO-CFINE	SOIL	DONE	U				
WG928105-1	Duplicate Sample	S	A2-HYDRO-COBBLES	SOIL	DONE	U				
WG928105-1	Duplicate Sample	S	A2-HYDRO-SFINE	SOIL	DONE	U				
WG928105-1	Duplicate Sample	S	A2-HYDRO-TFINE	SOIL	DONE	U				

Comments:

WG928105-1 L1625300-03

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 12 2016, 02:55 pm

Work Group: WG929977 for Department: 7 Wet Chemistry

Created: 08-SEP-16 Due: Operator: AR

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1625234-01	LDW-BA-PC-ENRMAT-SAN	C	A2-HYDRO-TGRAVEL	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-01	LDW-BA-PC-ENRMAT-SAN	C	A2-HYDRO-TFINE	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-01	LDW-BA-PC-ENRMAT-SAN	C	A2-HYDRO-SFINE	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-01	LDW-BA-PC-ENRMAT-SAN	C	A2-HYDRO-MSAND	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-01	LDW-BA-PC-ENRMAT-SAN	C	A2-HYDRO-FSAND	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-01	LDW-BA-PC-ENRMAT-SAN	C	A2-HYDRO-TSAND	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-01	LDW-BA-PC-ENRMAT-SAN	C	A2-HYDRO-CSAND	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-01	LDW-BA-PC-ENRMAT-SAN	C	A2-HYDRO-COBBLES	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-01	LDW-BA-PC-ENRMAT-SAN	C	A2-HYDRO-CGRAVEL	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-01	LDW-BA-PC-ENRMAT-SAN	C	A2-HYDRO-CFINE	SOIL	DONE	U		0901	S0	Glass-A.25
L1625234-01	LDW-BA-PC-ENRMAT-SAN	C	A2-HYDRO-FGRAVEL	SOIL	DONE	U		0901	S0	Glass-A.25
L1625999-13	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-TGRAVEL	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-13	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-TFINE	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-13	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-SFINE	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-13	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-MSAND	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-13	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-FSAND	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-13	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-FGRAVEL	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-13	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-CSAND	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-13	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-COBBLES	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-13	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-CGRAVEL	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-13	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-CFINE	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-13	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-TSAND	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-14	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-CFINE	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-14	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-CGRAVEL	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-14	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-TSAND	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-14	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-TGRAVEL	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-14	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-TFINE	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-14	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-SFINE	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-14	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-MSAND	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-14	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-FSAND	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-14	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-FGRAVEL	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-14	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-CSAND	SOIL	DONE	U		0913	S0	Glass-A.25
L1625999-14	RTB2016-RB-P-SOIL-2-	C	A2-HYDRO-COBBLES	SOIL	DONE	U		0913	S0	Glass-A.25
WG929977-1	Duplicate Sample	S	A2-HYDRO-CSAND	SOIL	DONE	U				
WG929977-1	Duplicate Sample	S	A2-HYDRO-SFINE	SOIL	DONE	U				
WG929977-1	Duplicate Sample	S	A2-HYDRO-COBBLES	SOIL	DONE	U				
WG929977-1	Duplicate Sample	S	A2-HYDRO-CFINE	SOIL	DONE	U				
WG929977-1	Duplicate Sample	S	A2-HYDRO-TGRAVEL	SOIL	DONE	U				
WG929977-1	Duplicate Sample	S	A2-HYDRO-TSAND	SOIL	DONE	U				
WG929977-1	Duplicate Sample	S	A2-HYDRO-CGRAVEL	SOIL	DONE	U				
WG929977-1	Duplicate Sample	S	A2-HYDRO-FSAND	SOIL	DONE	U				
WG929977-1	Duplicate Sample	S	A2-HYDRO-MSAND	SOIL	DONE	U				
WG929977-1	Duplicate Sample	S	A2-HYDRO-FGRAVEL	SOIL	DONE	U				
WG929977-1	Duplicate Sample	S	A2-HYDRO-TFINE	SOIL	DONE	U				

Comments:

WG929977-1 L1625234-01

Alpha Report

ANALYTICAL REPORT

Lab Number:	L1625234
Client:	Floyd Snider Inc 601 Union Street Suite 600 Seattle, WA 98101
ATTN:	Teri Floyd
Phone:	(206) 292-2078
Project Name:	LDW/AC PILOT STUDY
Project Number:	LY15160310
Report Date:	09/12/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1625234-01	LDW-BA-PC-ENRMAT-SAND	SEDIMENT	LDW	08/10/16 10:30	08/11/16
L1625234-02	LDW-BA-PC-ENRMAT-GRAVSAND	SEDIMENT	LDW	08/10/16 10:45	08/11/16

Project Name: LDW/AC PILOT STUDY **Lab Number:** L1625234
Project Number: LY15160310 **Report Date:** 09/12/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: LDW/AC PILOT STUDY **Lab Number:** L1625234
Project Number: LY15160310 **Report Date:** 09/12/16

Case Narrative (continued)

Report Submission
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Semivolatile Organics
L1625234-01 and -02 were frozen upon receipt to arrest sample holding time.

Metals
The WG925955-3 Laboratory Duplicate RPD, performed on L1625234-01, is outside the acceptance criteria for Silver (24%). The elevated RPD has been attributed to the non-homogeneous nature of the native sample.
The WG925963-4/-5 MS/MSD RPD for Mercury (26%), performed on L1625234-01, is above the acceptance criteria.
The WG925963-6/-7 MS/MSD RPD for Mercury (21%), performed on L1625234-02, is above the acceptance criteria.

Soot
The WG927380-3 Laboratory Duplicate RPD, performed on L1625234-01, is above the acceptance criteria for % Soot (Rep 1) (96%) and % Soot (Rep 2) (84%); however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.
The WG927380-4/-5 MS/MSD RPD for %Soot (Rep 1) (47%), performed on L1625234-01, is above the acceptance criteria.

Total Organic Carbon
The WG927320-3 Laboratory Duplicate RPD, performed on L1625234-01, is above the acceptance criteria for Total Organic Carbon (Rep2) (27%); however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.
The WG927320-4/-5 MS/MSD RPD for Total Organic Carbon (Rep2) (39%), performed on L1625234-01, is above the acceptance criteria.

Project Name: LDW/AC PILOT STUDY **Lab Number:** L1625234
Project Number: LY15160310 **Report Date:** 09/12/16

Case Narrative (continued)

Grain Size Analysis

The WG929977-1 Laboratory Duplicate RPDs, performed on L1625234-01, are outside the acceptance criteria for % Silt Fine (21%), and % Total Fines (32%). The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Susan E O'Neil Susan O' Neil

Title: Technical Director/Representative Date: 09/12/16

ORGANICS

SEMIVOLATILES

Project Name: LDW/AC PILOT STUDY **Lab Number:** L1625234

Project Number: LY15160310 **Report Date:** 09/12/16

SAMPLE RESULTS

Lab ID:	L1625234-01	Date Collected:	08/10/16 10:30
Client ID:	LDW-BA-PC-ENRMAT-SAND	Date Received:	08/11/16
Sample Location:	LDW	Field Prep:	Not Specified
Matrix:	Sediment	Extraction Method:	EPA 3570
Analytical Method:	1,8270D	Extraction Date:	09/07/16 07:06
Analytical Date:	09/09/16 22:17		
Analyst:	ML		
Percent Solids:	96%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Phenol	ND		ug/kg	34.1	3.24	1
1,4-Dichlorobenzene	ND		ug/kg	34.1	7.09	1
1,2-Dichlorobenzene	ND		ug/kg	34.1	7.43	1
Benzyl alcohol	ND		ug/kg	68.2	22.6	1
4-Methylphenol	ND		ug/kg	34.1	4.46	1
2,4-Dimethylphenol	ND		ug/kg	34.1	5.62	1
Benzoic acid	ND		ug/kg	2040	433.	1
1,2,4-Trichlorobenzene	ND		ug/kg	34.1	2.10	1
Naphthalene	ND		ug/kg	34.1	2.29	1
2-Methylnaphthalene	ND		ug/kg	34.1	2.68	1
Dimethylphthalate	ND		ug/kg	34.1	2.66	1
Acenaphthene	ND		ug/kg	34.1	3.41	1
Dibenzofuran	ND		ug/kg	34.1	2.55	1
Fluorene	ND		ug/kg	34.1	2.52	1
n-Nitrosodiphenylamine	ND		ug/kg	34.1	2.39	1
Hexachlorobenzene	ND		ug/kg	34.1	3.32	1
Pentachlorophenol	ND		ug/kg	204	61.3	1
Phenanthrene	ND		ug/kg	34.1	2.17	1
Anthracene	ND		ug/kg	34.1	1.74	1
Fluoranthene	ND		ug/kg	34.1	2.94	1
Pyrene	ND		ug/kg	34.1	2.81	1
Butylbenzylphthalate	ND		ug/kg	34.1	6.88	1
Benz(a)anthracene	ND		ug/kg	34.1	1.98	1
Chrysene	ND		ug/kg	34.1	2.38	1
bis(2-Ethylhexyl)phthalate	ND		ug/kg	34.1	8.93	1
Benzo(b)fluoranthene	ND		ug/kg	34.1	2.98	1
Benzo(k)fluoranthene	ND		ug/kg	34.1	2.60	1
Benzo(a)pyrene	ND		ug/kg	34.1	2.46	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	34.1	2.81	1
Dibenz(a,h)anthracene	ND		ug/kg	34.1	3.53	1

Project Name: LDW/AC PILOT STUDY **Lab Number:** L1625234

Project Number: LY15160310 **Report Date:** 09/12/16

SAMPLE RESULTS

Lab ID: L1625234-01 Date Collected: 08/10/16 10:30

Client ID: LDW-BA-PC-ENRMAT-SAND Date Received: 08/11/16

Sample Location: LDW Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Benzo(g,h,i)perylene	ND		ug/kg	34.1	2.64	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorobiphenyl	73		30-130
Phenol-d5	68		30-130
Nitrobenzene-d5	67		30-130
2-Fluorophenol	62		30-130
2,4,6-Tribromophenol	88		30-130
Terphenyl-d14	108		30-130

Project Name: LDW/AC PILOT STUDY **Lab Number:** L1625234

Project Number: LY15160310 **Report Date:** 09/12/16

SAMPLE RESULTS

Lab ID:	L1625234-02	Date Collected:	08/10/16 10:45
Client ID:	LDW-BA-PC-ENRMAT-GRAVSAND	Date Received:	08/11/16
Sample Location:	LDW	Field Prep:	Not Specified
Matrix:	Sediment	Extraction Method:	EPA 3570
Analytical Method:	1,8270D	Extraction Date:	09/07/16 07:06
Analytical Date:	09/10/16 00:19		
Analyst:	ML		
Percent Solids:	97%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Phenol	ND		ug/kg	34.0	3.23	1
1,4-Dichlorobenzene	ND		ug/kg	34.0	7.08	1
1,2-Dichlorobenzene	ND		ug/kg	34.0	7.42	1
Benzyl alcohol	ND		ug/kg	68.1	22.6	1
4-Methylphenol	ND		ug/kg	34.0	4.45	1
2,4-Dimethylphenol	ND		ug/kg	34.0	5.61	1
Benzoic acid	ND		ug/kg	2040	432.	1
1,2,4-Trichlorobenzene	ND		ug/kg	34.0	2.10	1
Naphthalene	ND		ug/kg	34.0	2.29	1
2-Methylnaphthalene	ND		ug/kg	34.0	2.68	1
Dimethylphthalate	ND		ug/kg	34.0	2.66	1
Acenaphthene	ND		ug/kg	34.0	3.40	1
Dibenzofuran	ND		ug/kg	34.0	2.55	1
Fluorene	ND		ug/kg	34.0	2.52	1
n-Nitrosodiphenylamine	ND		ug/kg	34.0	2.39	1
Hexachlorobenzene	ND		ug/kg	34.0	3.32	1
Pentachlorophenol	ND		ug/kg	204	61.2	1
Phenanthrene	ND		ug/kg	34.0	2.16	1
Anthracene	ND		ug/kg	34.0	1.74	1
Fluoranthene	ND		ug/kg	34.0	2.93	1
Pyrene	ND		ug/kg	34.0	2.81	1
Butylbenzylphthalate	ND		ug/kg	34.0	6.88	1
Benz(a)anthracene	ND		ug/kg	34.0	1.97	1
Chrysene	ND		ug/kg	34.0	2.38	1
bis(2-Ethylhexyl)phthalate	ND		ug/kg	34.0	8.92	1
Benzo(b)fluoranthene	ND		ug/kg	34.0	2.98	1
Benzo(k)fluoranthene	ND		ug/kg	34.0	2.59	1
Benzo(a)pyrene	ND		ug/kg	34.0	2.46	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	34.0	2.80	1
Dibenz(a,h)anthracene	ND		ug/kg	34.0	3.53	1

Project Name: LDW/AC PILOT STUDY **Lab Number:** L1625234

Project Number: LY15160310 **Report Date:** 09/12/16

SAMPLE RESULTS

Lab ID: L1625234-02 Date Collected: 08/10/16 10:45

Client ID: LDW-BA-PC-ENRMAT-GRAVSAND Date Received: 08/11/16

Sample Location: LDW Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Mansfield Lab						
Benzo(g,h,i)perylene	ND		ug/kg	34.0	2.64	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorobiphenyl	76		30-130
Phenol-d5	73		30-130
Nitrobenzene-d5	70		30-130
2-Fluorophenol	62		30-130
2,4,6-Tribromophenol	96		30-130
Terphenyl-d14	101		30-130

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/09/16 16:08
Analyst: ML

Extraction Method: EPA 3570
Extraction Date: 09/07/16 07:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 01-02 Batch: WG929407-1					
Phenol	ND		ug/kg	33.3	3.17
1,4-Dichlorobenzene	ND		ug/kg	33.3	6.93
1,2-Dichlorobenzene	ND		ug/kg	33.3	7.27
Benzyl alcohol	ND		ug/kg	66.7	22.1
4-Methylphenol	ND		ug/kg	33.3	4.36
2,4-Dimethylphenol	ND		ug/kg	33.3	5.49
Benzoic acid	ND		ug/kg	2000	423.
1,2,4-Trichlorobenzene	ND		ug/kg	33.3	2.06
Naphthalene	ND		ug/kg	33.3	2.24
2-Methylnaphthalene	ND		ug/kg	33.3	2.62
Dimethylphthalate	ND		ug/kg	33.3	2.60
Acenaphthene	ND		ug/kg	33.3	3.33
Dibenzofuran	ND		ug/kg	33.3	2.49
Fluorene	ND		ug/kg	33.3	2.47
n-Nitrosodiphenylamine	ND		ug/kg	33.3	2.34
Hexachlorobenzene	ND		ug/kg	33.3	3.25
Pentachlorophenol	ND		ug/kg	200	59.9
Phenanthrene	ND		ug/kg	33.3	2.12
Anthracene	ND		ug/kg	33.3	1.70
Fluoranthene	ND		ug/kg	33.3	2.87
Pyrene	ND		ug/kg	33.3	2.75
Butylbenzylphthalate	ND		ug/kg	33.3	6.73
Benz(a)anthracene	ND		ug/kg	33.3	1.93
Chrysene	ND		ug/kg	33.3	2.33
bis(2-Ethylhexyl)phthalate	ND		ug/kg	33.3	8.73
Benzo(b)fluoranthene	ND		ug/kg	33.3	2.92
Benzo(k)fluoranthene	ND		ug/kg	33.3	2.54
Benzo(a)pyrene	ND		ug/kg	33.3	2.41
Indeno(1,2,3-cd)pyrene	ND		ug/kg	33.3	2.75

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/09/16 16:08
Analyst: ML

Extraction Method: EPA 3570
Extraction Date: 09/07/16 07:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 01-02 Batch: WG929407-1					
Dibenz(a,h)anthracene	ND		ug/kg	33.3	3.45
Benzo(g,h,i)perylene	ND		ug/kg	33.3	2.59

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorobiphenyl	61		30-130
Phenol-d5	60		30-130
Nitrobenzene-d5	58		30-130
2-Fluorophenol	55		30-130
2,4,6-Tribromophenol	78		30-130
Terphenyl-d14	100		30-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 Batch: WG929407-2 WG929407-3								
n-Nitrosodimethylamine	75		74		40-140	1		30
Pyridine	81		81		40-140	0		30
Benzaldehyde	58		52		40-140	11		30
Aniline	70		64		40-140	9		30
Bis(2-chloroethyl)ether	69		64		40-140	8		30
Phenol	75		69		30-130	8		30
2-Chlorophenol	70		66		30-130	6		30
1,3-Dichlorobenzene	66		66		40-140	0		30
1,4-Dichlorobenzene	65		66		40-140	2		30
1,2-Dichlorobenzene	67		67		40-140	0		30
Bis(2-chloroisopropyl)ether	69		64		40-140	8		30
2-Methylphenol	74		68		30-130	8		30
Acetophenone	68		62		40-140	9		30
Hexachloroethane	64		64		40-140	0		30
N-Nitroso-di-n-propylamine	78		70		40-140	11		30
4-Methylphenol	77		72		30-130	7		30
Nitrobenzene	72		67		40-140	7		30
Isophorone	86		79		40-140	8		30
2-Nitrophenol	76		70		30-130	8		30
2,4-Dimethylphenol	69		62		30-130	11		30
Benzoic Acid	**20**	Q	**21**	Q	40-140	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 Batch: WG929407-2 WG929407-3								
Bis(2-chloroethoxy)methane	79		72		40-140	9		30
2,4-Dichlorophenol	80		74		30-130	8		30
1,2,4-Trichlorobenzene	70		66		40-140	6		30
Naphthalene	71		66		40-140	7		30
4-Chloroaniline	81		74		40-140	9		30
Hexachlorobutadiene	69		65		40-140	6		30
Caprolactam	102		111		40-140	8		30
P-Chloro-M-Cresol	87		86		30-130	1		30
2-Methylnaphthalene	76		71		40-140	7		30
1,2,4,5-Tetrachlorobenzene	78		72		40-140	8		30
Hexachlorocyclopentadiene	62		53		40-140	16		30
2,4,6-Trichlorophenol	86		81		30-130	6		30
2,4,5-Trichlorophenol	94		96		30-130	2		30
Biphenyl	74		71		40-140	4		30
2-Chloronaphthalene	80		74		40-140	8		30
2-Nitroaniline	91		90		40-140	1		30
Acenaphthylene	83		80		40-140	4		30
Dimethylphthalate	94		94		40-140	0		30
2,6-Dinitrotoluene	95		97		40-140	2		30
Acenaphthene	83		80		40-140	4		30
3-Nitroaniline	93		97		40-140	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 Batch: WG929407-2 WG929407-3								
2,4-Dinitrophenol	78		79		30-130	1		30
Dibenzofuran	88		85		40-140	3		30
2,3,4,6-Tetrachlorophenol	101		105		30-130	4		30
2,4-Dinitrotoluene	97		106		40-140	9		30
4-Nitrophenol	93		104		30-130	11		30
Fluorene	89		88		40-140	1		30
4-Chlorophenyl phenyl ether	90		89		40-140	1		30
Diethylphthalate	92		100		40-140	8		30
4-Nitroaniline	101		106		40-140	5		30
4,6-Dinitro-2-Methylphenol	93		99		30-130	6		30
Azobenzene	93		95		40-140	2		30
NitrosoDiPhenylAmine(NDPA)/DPA	99		102		40-140	3		30
4-Bromophenyl phenyl ether	94		96		40-140	2		30
Hexachlorobenzene	94		96		40-140	2		30
Atrazine	85		88		40-140	3		30
Pentachlorophenol	83		100		30-130	19		30
Phenanthrene	96		96		40-140	0		30
Anthracene	92		95		40-140	3		30
Carbazole	99		106		40-140	7		30
Di-n-butylphthalate	101		106		40-140	5		30
Fluoranthene	97		102		40-140	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 Batch: WG929407-2 WG929407-3								
Benzidine	48		52		40-140	8		30
Pyrene	98		103		40-140	5		30
Butylbenzylphthalate	105		113		40-140	7		30
3,3'-Dichlorobenzidine	87		98		40-140	12		30
Benz(a)anthracene	97		105		40-140	8		30
Chrysene	103		107		40-140	4		30
Bis(2-Ethylhexyl)phthalate	106		113		40-140	6		30
Di-n-octylphthalate	104		106		40-140	2		30
Benzo(b)fluoranthene	97		104		40-140	7		30
Benzo(k)fluoranthene	108		108		40-140	0		30
Benzo(a)pyrene	99		102		40-140	3		30
Indeno(1,2,3-cd)Pyrene	99		104		40-140	5		30
Dibenz(a,h)anthracene	105		110		40-140	5		30
Benzo(ghi)perylene	102		105		40-140	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 Batch: WG929407-2 WG929407-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorobiphenyl	78		72		30-130
Phenol-d5	72		66		30-130
Nitrobenzene-d5	70		66		30-130
2-Fluorophenol	64		63		30-130
2,4,6-Tribromophenol	103		105		30-130
Terphenyl-d14	100		104		30-130

Matrix Spike Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG929407-5 WG929407-6 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND												
n-Nitrosodimethylamine	ND	693	492	71		521	75		40-140	6		30
Pyridine	ND	554	366	66		378	68		40-140	3		30
Benzaldehyde	ND	693	341	49		389	56		40-140	13		30
Aniline	ND	693	409	59		468	68		40-140	13		30
Bis(2-chloroethyl)ether	ND	693	427	62		486	70		40-140	13		30
Phenol	ND	693	463	67		520	75		30-130	12		30
2-Chlorophenol	ND	693	438	63		487	70		30-130	11		30
1,3-Dichlorobenzene	ND	693	436	63		461	67		40-140	6		30
1,4-Dichlorobenzene	ND	693	434	63		464	67		40-140	7		30
1,2-Dichlorobenzene	ND	693	437	63		470	68		40-140	7		30
Bis(2-chloroisopropyl)ether	ND	693	431	62		494	71		40-140	14		30
2-Methylphenol	ND	693	460	66		518	75		30-130	12		30
Acetophenone	ND	693	425	61		484	70		40-140	13		30
Hexachloroethane	ND	693	420	61		450	65		40-140	7		30
N-Nitroso-di-n-propylamine	ND	693	494	71		559	81		40-140	12		30
4-Methylphenol	ND	693	480	69		535	77		30-130	11		30
Nitrobenzene	ND	693	452	65		519	75		40-140	14		30
Isophorone	ND	693	574	83		633	91		40-140	10		30
2-Nitrophenol	ND	693	480	69		556	80		30-130	15		30
2,4-Dimethylphenol	ND	693	397	57		447	65		30-130	12		30
Benzoic Acid	ND	3460	1960J	57		2260	65		40-140	14		30

Matrix Spike Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG929407-5 WG929407-6 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND												
Bis(2-chloroethoxy)methane	ND	693	512	74		582	84		40-140	13		30
2,4-Dichlorophenol	ND	693	522	75		577	83		30-130	10		30
1,2,4-Trichlorobenzene	ND	693	443	64		496	72		40-140	11		30
Naphthalene	ND	693	448	65		504	73		40-140	12		30
4-Chloroaniline	ND	693	516	75		582	84		40-140	12		30
Hexachlorobutadiene	ND	693	423	61		488	70		40-140	14		30
Caprolactam	ND	693	729	105		795	115		40-140	9		30
P-Chloro-M-Cresol	ND	693	606	88		657	95		30-130	8		30
2-Methylnaphthalene	ND	693	502	73		557	80		40-140	10		30
1,2,4,5-Tetrachlorobenzene	ND	693	517	75		568	82		40-140	9		30
Hexachlorocyclopentadiene	ND	693	393	57		486	70		40-140	21		30
2,4,6-Trichlorophenol	ND	693	598	86		654	94		30-130	9		30
2,4,5-Trichlorophenol	ND	693	664	96		717	103		30-130	8		30
Biphenyl	ND	693	511	74		559	81		40-140	9		30
2-Chloronaphthalene	ND	693	539	78		585	84		40-140	8		30
2-Nitroaniline	ND	693	648	94		703	101		40-140	8		30
Acenaphthylene	ND	693	579	84		624	90		40-140	7		30
Dimethylphthalate	ND	693	677	98		712	103		40-140	5		30
2,6-Dinitrotoluene	ND	693	684	99		743	107		40-140	8		30
Acenaphthene	ND	693	583	84		624	90		40-140	7		30
3-Nitroaniline	ND	693	666	96		712	103		40-140	7		30

Matrix Spike Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG929407-5 WG929407-6 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND												
2,4-Dinitrophenol	ND	693	615	89		678	98		30-130	10		30
Dibenzofuran	ND	693	614	89		654	94		40-140	6		30
2,3,4,6-Tetrachlorophenol	ND	693	741	107		801	115		30-130	8		30
2,4-Dinitrotoluene	ND	693	712	103		744	107		40-140	4		30
4-Nitrophenol	ND	693	710	103		695	100		30-130	2		30
Fluorene	ND	693	630	91		672	97		40-140	6		30
4-Chlorophenyl phenyl ether	ND	693	633	91		676	98		40-140	7		30
Diethylphthalate	ND	693	705	102		739	107		40-140	5		30
4-Nitroaniline	ND	693	718	104		763	110		40-140	6		30
4,6-Dinitro-2-Methylphenol	ND	693	682	99		737	106		30-130	8		30
Azobenzene	ND	693	675	98		738	106		40-140	9		30
NitrosoDiPhenylAmine(NDPA)/DPA	ND	693	699	101		769	111		40-140	10		30
4-Bromophenyl phenyl ether	ND	693	662	96		727	105		40-140	9		30
Hexachlorobenzene	ND	693	671	97		724	104		40-140	8		30
Atrazine	ND	693	616	89		666	96		40-140	8		30
Pentachlorophenol	ND	693	670	97		728	105		30-130	8		30
Phenanthrene	ND	693	678	98		727	105		40-140	7		30
Anthracene	ND	693	667	96		700	101		40-140	5		30
Carbazole	ND	693	725	105		739	107		40-140	2		30
Di-n-butylphthalate	ND	693	728	105		768	111		40-140	5		30
Fluoranthene	ND	693	697	101		736	106		40-140	5		30

Matrix Spike Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG929407-5 WG929407-6 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND												
Benzidine	ND	1730	261J	**15**	Q	403.J	**23**	Q	40-140	**43**	Q	30
Pyrene	ND	693	710	103		733	106		40-140	3		30
Butylbenzylphthalate	ND	693	757	109		797	115		40-140	5		30
3,3'-Dichlorobenzidine	ND	693	601	87		630	91		40-140	5		30
Benz(a)anthracene	ND	693	704	102		724	104		40-140	3		30
Chrysene	ND	693	735	106		754	109		40-140	3		30
Bis(2-Ethylhexyl)phthalate	ND	693	763	110		788	114		40-140	3		30
Di-n-octylphthalate	ND	693	788	114		778	112		40-140	1		30
Benzo(b)fluoranthene	ND	693	713	103		714	103		40-140	0		30
Benzo(k)fluoranthene	ND	693	809	117		760	110		40-140	6		30
Benzo(a)pyrene	ND	693	720	104		719	104		40-140	0		30
Indeno(1,2,3-cd)Pyrene	ND	693	738	107		742	107		40-140	1		30
Dibenz(a,h)anthracene	ND	693	794	115		777	112		40-140	2		30
Benzo(ghi)perylene	ND	693	763	110		720	104		40-140	6		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	103		113		30-130
2-Fluorobiphenyl	74		81		30-130
2-Fluorophenol	59		63		30-130
Nitrobenzene-d5	63		72		30-130
Phenol-d5	64		72		30-130

Matrix Spike Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG929407-5 WG929407-6 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Terphenyl-d14	101		102		30-130

Matrix Spike Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG929407-7 WG929407-8 QC Sample: L1625234-02 Client ID: LDW-BA-PC-ENRMAT-GRAVSAND												
n-Nitrosodimethylamine	ND	676	389	58		304	45		40-140	25		30
Pyridine	ND	541	307	57		253	47		40-140	19		30
Benzaldehyde	ND	676	234	**35**	Q	183	**27**	Q	40-140	24		30
Aniline	ND	676	335	50		283	42		40-140	17		30
Bis(2-chloroethyl)ether	ND	676	340	50		275	41		40-140	21		30
Phenol	ND	676	389	58		322	48		30-130	19		30
2-Chlorophenol	ND	676	346	51		282	42		30-130	20		30
1,3-Dichlorobenzene	ND	676	340	50		269	**40**	Q	40-140	23		30
1,4-Dichlorobenzene	ND	676	341	50		272	40		40-140	23		30
1,2-Dichlorobenzene	ND	676	343	51		272	40		40-140	23		30
Bis(2-chloroisopropyl)ether	ND	676	349	52		290	43		40-140	18		30
2-Methylphenol	ND	676	390	58		326	48		30-130	18		30
Acetophenone	ND	676	339	50		303	45		40-140	11		30
Hexachloroethane	ND	676	327	48		261	**39**	Q	40-140	22		30
N-Nitroso-di-n-propylamine	ND	676	431	64		363	54		40-140	17		30
4-Methylphenol	ND	676	417	62		348	51		30-130	18		30
Nitrobenzene	ND	676	370	55		307	45		40-140	19		30
Isophorone	ND	676	512	76		427	63		40-140	18		30
2-Nitrophenol	ND	676	399	59		337	50		30-130	17		30
2,4-Dimethylphenol	ND	676	346	51		275	41		30-130	23		30
Benzoic Acid	ND	3380	2010J	59		1960J	58		40-140	3		30

Matrix Spike Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG929407-7 WG929407-8 QC Sample: L1625234-02 Client ID: LDW-BA-PC-ENRMAT-GRAVSAND												
Bis(2-chloroethoxy)methane	ND	676	448	66		374	55		40-140	18		30
2,4-Dichlorophenol	ND	676	452	67		391	58		30-130	14		30
1,2,4-Trichlorobenzene	ND	676	359	53		296	44		40-140	19		30
Naphthalene	ND	676	372	55		310	46		40-140	18		30
4-Chloroaniline	ND	676	463	69		402	59		40-140	14		30
Hexachlorobutadiene	ND	676	338	50		277	41		40-140	20		30
Caprolactam	ND	676	694	103		723	107		40-140	4		30
P-Chloro-M-Cresol	ND	676	565	84		509	75		30-130	10		30
2-Methylnaphthalene	ND	676	442	65		367	54		40-140	19		30
1,2,4,5-Tetrachlorobenzene	ND	676	460	68		381	56		40-140	19		30
Hexachlorocyclopentadiene	ND	676	315	47		244	**36**	Q	40-140	25		30
2,4,6-Trichlorophenol	ND	676	558	83		480	71		30-130	15		30
2,4,5-Trichlorophenol	ND	676	608	90		593	87		30-130	2		30
Biphenyl	ND	676	447	66		398	59		40-140	12		30
2-Chloronaphthalene	ND	676	487	72		412	61		40-140	17		30
2-Nitroaniline	ND	676	614	91		587	87		40-140	4		30
Acenaphthylene	ND	676	531	79		467	69		40-140	13		30
Dimethylphthalate	ND	676	630	93		603	89		40-140	4		30
2,6-Dinitrotoluene	ND	676	643	95		630	93		40-140	2		30
Acenaphthene	ND	676	538	80		475	70		40-140	12		30
3-Nitroaniline	ND	676	637	94		624	92		40-140	2		30

Matrix Spike Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG929407-7 WG929407-8 QC Sample: L1625234-02 Client ID: LDW-BA-PC-ENRMAT-GRAVSAND												
2,4-Dinitrophenol	ND	676	566	84		622	92		30-130	9		30
Dibenzofuran	ND	676	566	84		519	77		40-140	9		30
2,3,4,6-Tetrachlorophenol	ND	676	708	105		700	103		30-130	1		30
2,4-Dinitrotoluene	ND	676	701	104		700	103		40-140	0		30
4-Nitrophenol	ND	676	681	101		740	109		30-130	8		30
Fluorene	ND	676	589	87		561	83		40-140	5		30
4-Chlorophenyl phenyl ether	ND	676	593	88		557	82		40-140	6		30
Diethylphthalate	ND	676	669	99		661	97		40-140	1		30
4-Nitroaniline	ND	676	688	102		687	101		40-140	0		30
4,6-Dinitro-2-Methylphenol	ND	676	644	95		698	103		30-130	8		30
Azobenzene	ND	676	630	93		608	90		40-140	4		30
NitrosoDiPhenylAmine(NDPA)/DPA	ND	676	672	99		675	100		40-140	0		30
4-Bromophenyl phenyl ether	ND	676	620	92		622	92		40-140	0		30
Hexachlorobenzene	ND	676	632	94		628	93		40-140	1		30
Atrazine	ND	676	532	79		598	88		40-140	12		30
Pentachlorophenol	ND	676	659	97		725	107		30-130	10		30
Phenanthrene	ND	676	640	95		634	93		40-140	1		30
Anthracene	ND	676	616	91		649	96		40-140	5		30
Carbazole	ND	676	692	102		714	105		40-140	3		30
Di-n-butylphthalate	ND	676	681	101		732	108		40-140	7		30
Fluoranthene	ND	676	655	97		700	103		40-140	7		30

Matrix Spike Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG929407-7 WG929407-8 QC Sample: L1625234-02 Client ID: LDW-BA-PC-ENRMAT-GRAVSAND												
Benzidine	ND	1690	410J	**24**	Q	480.J	**28**	Q	40-140	16		30
Pyrene	ND	676	666	99		706	104		40-140	6		30
Butylbenzylphthalate	ND	676	718	106		766	113		40-140	6		30
3,3'-Dichlorobenzidine	ND	676	561	83		632	93		40-140	12		30
Benz(a)anthracene	ND	676	667	99		698	103		40-140	5		30
Chrysene	ND	676	696	103		706	104		40-140	1		30
Bis(2-Ethylhexyl)phthalate	ND	676	727	108		776	114		40-140	7		30
Di-n-octylphthalate	ND	676	715	106		762	112		40-140	6		30
Benzo(b)fluoranthene	ND	676	656	97		695	102		40-140	6		30
Benzo(k)fluoranthene	ND	676	706	104		712	105		40-140	1		30
Benzo(a)pyrene	ND	676	665	98		691	102		40-140	4		30
Indeno(1,2,3-cd)Pyrene	ND	676	675	100		702	103		40-140	4		30
Dibenz(a,h)anthracene	ND	676	705	104		734	108		40-140	4		30
Benzo(ghi)perylene	ND	676	658	97		686	101		40-140	4		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	99		101		30-130
2-Fluorobiphenyl	68		58		30-130
2-Fluorophenol	48		37		30-130
Nitrobenzene-d5	52		44		30-130
Phenol-d5	54		45		30-130

Matrix Spike Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG929407-7 WG929407-8 QC Sample: L1625234-02 Client ID: LDW-BA-PC-ENRMAT-GRAVSAND												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Terphenyl-d14	95		101		30-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG929407-4 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND						
Phenol	ND	ND	ug/kg	NC		30
1,4-Dichlorobenzene	ND	ND	ug/kg	NC		30
1,2-Dichlorobenzene	ND	ND	ug/kg	NC		30
Benzyl alcohol	ND	ND	ug/kg	NC		30
4-Methylphenol	ND	ND	ug/kg	NC		30
2,4-Dimethylphenol	ND	ND	ug/kg	NC		30
Benzoic acid	ND	ND	ug/kg	NC		30
1,2,4-Trichlorobenzene	ND	ND	ug/kg	NC		30
Naphthalene	ND	ND	ug/kg	NC		30
2-Methylnaphthalene	ND	ND	ug/kg	NC		30
Dimethylphthalate	ND	ND	ug/kg	NC		30
Acenaphthene	ND	ND	ug/kg	NC		30
Dibenzofuran	ND	ND	ug/kg	NC		30
Fluorene	ND	ND	ug/kg	NC		30
n-Nitrosodiphenylamine	ND	ND	ug/kg	NC		30
Hexachlorobenzene	ND	ND	ug/kg	NC		30
Pentachlorophenol	ND	ND	ug/kg	NC		30
Phenanthrene	ND	ND	ug/kg	NC		30
Anthracene	ND	ND	ug/kg	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG929407-4 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND					
Fluoranthene	ND	ND	ug/kg	NC	30
Pyrene	ND	ND	ug/kg	NC	30
Butylbenzylphthalate	ND	ND	ug/kg	NC	30
Benz(a)anthracene	ND	ND	ug/kg	NC	30
Chrysene	ND	ND	ug/kg	NC	30
bis(2-Ethylhexyl)phthalate	ND	ND	ug/kg	NC	30
Benzo(b)fluoranthene	ND	ND	ug/kg	NC	30
Benzo(k)fluoranthene	ND	ND	ug/kg	NC	30
Benzo(a)pyrene	ND	ND	ug/kg	NC	30
Indeno(1,2,3-cd)pyrene	ND	ND	ug/kg	NC	30
Dibenz(a,h)anthracene	ND	ND	ug/kg	NC	30
Benzo(g,h,i)perylene	ND	ND	ug/kg	NC	30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
2-Fluorobiphenyl	73		76		30-130
Phenol-d5	68		72		30-130
Nitrobenzene-d5	67		73		30-130
2-Fluorophenol	62		68		30-130
2,4,6-Tribromophenol	88		95		30-130
Terphenyl-d14	108		107		30-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG929407-4 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND					

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria

METALS

Project Name:	LDW/AC PILOT STUDY	**Lab Number:**	L1625234
Project Number:	LY15160310	**Report Date:**	09/12/16

SAMPLE RESULTS

Lab ID:	L1625234-01	Date Collected:	08/10/16 10:30
Client ID:	LDW-BA-PC-ENRMAT-SAND	Date Received:	08/11/16
Sample Location:	LDW	Field Prep:	Not Specified
Matrix:	Sediment		
Percent Solids:	96%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	1.85		mg/kg	0.027	0.003	2	08/25/16 14:10	08/30/16 14:22	EPA 3050B	1,6020A	DB
Cadmium, Total	0.040		mg/kg	0.011	0.001	2	08/25/16 14:10	08/30/16 14:22	EPA 3050B	1,6020A	DB
Chromium, Total	13.9		mg/kg	0.108	0.025	2	08/25/16 14:10	08/30/16 14:22	EPA 3050B	1,6020A	DB
Copper, Total	13.0		mg/kg	0.108	0.006	2	08/25/16 14:10	08/30/16 14:22	EPA 3050B	1,6020A	DB
Lead, Total	1.66		mg/kg	0.162	0.052	10	08/25/16 14:10	08/31/16 09:13	EPA 3050B	1,6020A	DB
Mercury, Total	0.009	J	mg/kg	0.011	0.001	5	08/25/16 14:10	08/30/16 14:15	EPA 7474	1,7474	LC
Silver, Total	0.047		mg/kg	0.032	0.001	2	08/25/16 14:10	08/25/16 20:55	EPA 3050B	1,6020A	DB
Zinc, Total	26.0		mg/kg	0.540	0.140	2	08/25/16 14:10	08/30/16 14:22	EPA 3050B	1,6020A	DB

Project Name: LDW/AC PILOT STUDY
Lab Number: L1625234
Project Number: LY15160310
Report Date: 09/12/16

SAMPLE RESULTS

Lab ID: L1625234-02
Client ID: LDW-BA-PC-ENRMAT-GRAVSAND
Sample Location: LDW
Matrix: Sediment
Percent Solids: 97%

Date Collected: 08/10/16 10:45
Date Received: 08/11/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.24		mg/kg	0.028	0.003	2	08/25/16 14:10	08/30/16 14:27	EPA 3050B	1,6020A	DB
Cadmium, Total	0.036		mg/kg	0.011	0.001	2	08/25/16 14:10	08/30/16 14:27	EPA 3050B	1,6020A	DB
Chromium, Total	14.3		mg/kg	0.111	0.026	2	08/25/16 14:10	08/30/16 14:27	EPA 3050B	1,6020A	DB
Copper, Total	12.1		mg/kg	0.111	0.006	2	08/25/16 14:10	08/30/16 14:27	EPA 3050B	1,6020A	DB
Lead, Total	1.06		mg/kg	0.033	0.011	2	08/25/16 14:10	08/30/16 14:27	EPA 3050B	1,6020A	DB
Mercury, Total	0.007	J	mg/kg	0.014	0.002	5	08/25/16 14:10	08/30/16 14:26	EPA 7474	1,7474	LC
Silver, Total	0.025	J	mg/kg	0.033	0.001	2	08/25/16 14:10	08/25/16 20:59	EPA 3050B	1,6020A	DB
Zinc, Total	21.3		mg/kg	0.555	0.144	2	08/25/16 14:10	08/30/16 14:27	EPA 3050B	1,6020A	DB

Project Name: LDW/AC PILOT STUDY **Lab Number:** L1625234

Project Number: LY15160310 **Report Date:** 09/12/16

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG925955-1										
Silver, Total	ND		mg/kg	0.050	0.001	2	08/25/16 14:10	08/25/16 20:52	1,6020A	DB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG925961-1										
Arsenic, Total	0.014	J	mg/kg	0.050	0.006	2	08/25/16 14:10	08/30/16 14:13	1,6020A	DB
Cadmium, Total	ND		mg/kg	0.020	0.003	2	08/25/16 14:10	08/30/16 14:13	1,6020A	DB
Chromium, Total	ND		mg/kg	0.200	0.047	2	08/25/16 14:10	08/30/16 14:13	1,6020A	DB
Copper, Total	0.027	J	mg/kg	0.200	0.011	2	08/25/16 14:10	08/30/16 14:13	1,6020A	DB
Lead, Total	ND		mg/kg	0.060	0.019	2	08/25/16 14:10	08/30/16 14:13	1,6020A	DB
Zinc, Total	ND		mg/kg	1.00	0.260	2	08/25/16 14:10	08/30/16 14:13	1,6020A	DB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG925963-1										
Mercury, Total	ND		mg/kg	0.013	0.002	5	08/25/16 14:10	08/30/16 14:10	1,7474	LC

Prep Information

Digestion Method: EPA 7474

Lab Control Sample Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG925955-2 SRM Lot Number: D089-540								
Silver, Total	88		-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG925961-2 SRM Lot Number: D089-540								
Arsenic, Total	111		-		80-120	-		20
Cadmium, Total	108		-		82-117	-		20
Chromium, Total	101		-		79-121	-		20
Copper, Total	109		-		80-119	-		20
Lead, Total	105		-		81-119	-		20
Zinc, Total	112		-		80-119	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG925963-2 SRM Lot Number: D089-540								
Mercury, Total	120		-		57-143	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG925955-4 WG925955-5 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND												
Silver, Total	0.047	1.16	1.12	93		1.00	88		75-125	11		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG925955-6 WG925955-7 QC Sample: L1625234-02 Client ID: LDW-BA-PC-ENRMAT-GRAVSAND												
Silver, Total	0.025J	1.19	1.13	95		1.03	94		75-125	9		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG925961-4 WG925961-5 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND												
Arsenic, Total	1.85	118	118	98		136	104		75-125	14		20
Cadmium, Total	0.040	58.9	60.3	102		67.1	104		75-125	11		20
Chromium, Total	13.9	118	136	104		154	108		75-125	12		20
Copper, Total	13.0	118	133	102		149	105		75-125	11		20
Lead, Total	1.66	118	125	105		136	104		75-125	8		20
Zinc, Total	26.0	118	136	93		152	97		75-125	11		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG925961-6 WG925961-7 QC Sample: L1625234-02 Client ID: LDW-BA-PC-ENRMAT-GRAVSAND												
Arsenic, Total	2.24	106	113	104		125	115		75-125	10		20
Cadmium, Total	0.036	53.2	55.8	105		57.0	106		75-125	2		20
Chromium, Total	14.3	106	127	106		125	104		75-125	2		20
Copper, Total	12.1	106	126	107		122	103		75-125	3		20
Lead, Total	1.06	106	98.6	92		96.9	90		75-125	2		20
Zinc, Total	21.3	106	133	105		127	99		75-125	5		20

Matrix Spike Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG925963-4 WG925963-5 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND										
Mercury, Total	0.009J	0.543	0.550	101	0.712	98	80-120	**26**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG925963-6 WG925963-7 QC Sample: L1625234-02 Client ID: LDW-BA-PC-ENRMAT-GRAVSAND										
Mercury, Total	0.007J	0.741	0.689	93	0.560	102	80-120	**21**	Q	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG925955-3 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND						
Silver, Total	0.047	0.037	mg/kg	**24**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG925961-3 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND						
Arsenic, Total	1.85	1.82	mg/kg	2		20
Cadmium, Total	0.040	0.040	mg/kg	2		20
Chromium, Total	13.9	14.2	mg/kg	2		20
Copper, Total	13.0	13.0	mg/kg	0		20
Zinc, Total	26.0	24.1	mg/kg	8		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG925961-3 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND						
Lead, Total	1.66	1.64	mg/kg	1		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG925963-3 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND						
Mercury, Total	0.009J	0.017	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

SAMPLE RESULTS

Lab ID: L1625234-01
Client ID: LDW-BA-PC-ENRMAT-SAND
Sample Location: LDW
Matrix: Sediment

Date Collected: 08/10/16 10:30
Date Received: 08/11/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	0.032		%	0.010	0.010	1	-	08/29/16 10:59	1,9060A	CM
Total Organic Carbon (Rep2)	0.032		%	0.010	0.010	1	-	08/29/16 10:59	1,9060A	CM
Grain Size Analysis - Mansfield Lab										
Cobbles	ND		%	0.100	NA	1	-	09/08/16 10:43	12,D422	AR
% Coarse Gravel	ND		%	0.100	NA	1	-	09/08/16 10:43	12,D422	AR
% Fine Gravel	0.200		%	0.100	NA	1	-	09/08/16 10:43	12,D422	AR
% Total Gravel	0.200		%	0.100	NA	1	-	09/08/16 10:43	12,D422	AR
% Coarse Sand	15.5		%	0.100	NA	1	-	09/08/16 10:43	12,D422	AR
% Medium Sand	49.9		%	0.100	NA	1	-	09/08/16 10:43	12,D422	AR
% Fine Sand	32.6		%	0.100	NA	1	-	09/08/16 10:43	12,D422	AR
% Total Sand	98.0		%	0.100	NA	1	-	09/08/16 10:43	12,D422	AR
% Silt Fine	1.60		%	0.100	NA	1	-	09/08/16 10:43	12,D422	AR
% Clay Fine	0.200		%	0.100	NA	1	-	09/08/16 10:43	12,D422	AR
% Total Fines	1.80		%	0.100	NA	1	-	09/08/16 10:43	12,D422	AR
General Chemistry - Mansfield Lab										
Solids, Total	95.9		%	0.100	0.100	1	-	08/24/16 14:19	121,2540G	AR
% Soot (Rep 1)	0.034		%	0.010	NA	1	-	08/30/16 09:03	91,-	AR
% Soot (Rep 2)	0.027		%	0.010	NA	1	-	08/30/16 09:03	91,-	AR

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

SAMPLE RESULTS

Lab ID: L1625234-02
Client ID: LDW-BA-PC-ENRMAT-GRAVSAND
Sample Location: LDW
Matrix: Sediment

Date Collected: 08/10/16 10:45
Date Received: 08/11/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab										
Total Organic Carbon (Rep1)	0.170		%	0.010	0.010	1	-	08/29/16 13:38	1,9060A	CM
Total Organic Carbon (Rep2)	0.168		%	0.010	0.010	1	-	08/29/16 13:38	1,9060A	CM
Grain Size Analysis - Mansfield Lab										
Cobbles	ND		%	0.100	NA	1	-	09/01/16 10:37	12,D422	AR
% Coarse Gravel	ND		%	0.100	NA	1	-	09/01/16 10:37	12,D422	AR
% Fine Gravel	36.7		%	0.100	NA	1	-	09/01/16 10:37	12,D422	AR
% Total Gravel	36.7		%	0.100	NA	1	-	09/01/16 10:37	12,D422	AR
% Coarse Sand	28.7		%	0.100	NA	1	-	09/01/16 10:37	12,D422	AR
% Medium Sand	27.4		%	0.100	NA	1	-	09/01/16 10:37	12,D422	AR
% Fine Sand	6.20		%	0.100	NA	1	-	09/01/16 10:37	12,D422	AR
% Total Sand	62.3		%	0.100	NA	1	-	09/01/16 10:37	12,D422	AR
% Silt Fine	1.00		%	0.100	NA	1	-	09/01/16 10:37	12,D422	AR
% Clay Fine	ND		%	0.100	NA	1	-	09/01/16 10:37	12,D422	AR
% Total Fines	1.00		%	0.100	NA	1	-	09/01/16 10:37	12,D422	AR
General Chemistry - Mansfield Lab										
Solids, Total	96.9		%	0.100	0.100	1	-	08/24/16 14:19	121,2540G	AR
% Soot (Rep 1)	0.020		%	0.010	NA	1	-	08/30/16 09:54	91,-	AR
% Soot (Rep 2)	0.019		%	0.010	NA	1	-	08/30/16 09:54	91,-	AR

Project Name: LDW/AC PILOT STUDY **Lab Number:** L1625234

Project Number: LY15160310 **Report Date:** 09/12/16

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab for sample(s): 01-02 Batch: WG927320-1										
Total Organic Carbon (Rep1)	ND		%	0.010	0.010	1	-	08/29/16 12:15	1,9060A	CM
Total Organic Carbon (Rep2)	ND		%	0.010	0.010	1	-	08/29/16 12:15	1,9060A	CM
General Chemistry - Mansfield Lab for sample(s): 01-02 Batch: WG927380-1										
% Soot (Rep 1)	ND		%	0.010	NA	1	-	08/30/16 08:47	91,-	AR
% Soot (Rep 2)	ND		%	0.010	NA	1	-	08/30/16 08:47	91,-	AR

Matrix Spike Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Organic Carbon - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG927320-4 WG927320-5 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND												
Total Organic Carbon (Rep1)	0.032	0.486	0.537	104		0.528	105		75-125	2		25
Total Organic Carbon (Rep2)	0.032	0.35	0.385	101		0.569	106		75-125	**39**	Q	25
Total Organic Carbon - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG927320-6 WG927320-7 QC Sample: L1625234-02 Client ID: LDW-BA-PC-ENRMAT-GRAVSAND												
Total Organic Carbon (Rep1)	0.170	0.587	0.689	88		0.744	96		75-125	8		25
Total Organic Carbon (Rep2)	0.168	0.545	0.691	96		0.685	99		75-125	1		25
General Chemistry - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG927380-4 WG927380-5 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND												
% Soot (Rep 1)	0.034	0.324	0.359	100		0.580	110		75-125	**47**	Q	25
% Soot (Rep 2)	0.027	0.328	0.367	104		0.398	107		75-125	8		25
General Chemistry - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG927380-6 WG927380-7 QC Sample: L1625234-02 Client ID: LDW-BA-PC-ENRMAT-GRAVSAND												
% Soot (Rep 1)	0.020	0.452	0.507	108		0.567	106		75-125	11		25
% Soot (Rep 2)	0.019	0.43	0.475	106		0.494	106		75-125	4		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG925587-1 QC Sample: L1625226-01 Client ID: DUP Sample						
Solids, Total	81.1	80.9	%	0		10
Total Organic Carbon - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG927320-3 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND						
Total Organic Carbon (Rep1)	0.032	0.037	%	14		25
Total Organic Carbon (Rep2)	0.032	0.042	%	**27**	Q	25
General Chemistry - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG927380-3 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND						
% Soot (Rep 1)	0.034	0.012	%	**96**	Q	25
% Soot (Rep 2)	0.027	0.011	%	**84**	Q	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Grain Size Analysis - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG928105-1 QC Sample: L1625300-03 Client ID: DUP Sample						
Cobbles	ND	ND	%	NC		20
% Coarse Gravel	ND	ND	%	NC		20
% Fine Gravel	15.5	13.6	%	13		20
% Total Gravel	15.5	13.6	%	13		20
% Coarse Sand	13.0	15.2	%	16		20
% Medium Sand	48.8	50.9	%	4		20
% Fine Sand	21.1	19.0	%	10		20
% Total Sand	82.9	85.1	%	3		20
% Silt Fine	1.60	1.20	%	**29**	Q	20
% Clay Fine	ND	0.100	%	NC		20
% Total Fines	1.60	1.30	%	**21**	Q	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Grain Size Analysis - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG929977-1 QC Sample: L1625234-01 Client ID: LDW-BA-PC-ENRMAT-SAND						
Cobbles	ND	ND	%	NC		20
% Coarse Gravel	ND	ND	%	NC		20
% Fine Gravel	0.200	0.200	%	0		20
% Total Gravel	0.200	0.200	%	0		20
% Coarse Sand	15.5	16.4	%	6		20
% Medium Sand	49.9	49.8	%	0		20
% Fine Sand	32.6	32.3	%	1		20
% Total Sand	98.0	98.5	%	1		20
% Silt Fine	1.60	1.30	%	**21**	Q	20
% Clay Fine	0.200	ND	%	NC		20
% Total Fines	1.80	1.30	%	**32**	Q	20

Project Name: LDW/AC PILOT STUDY **Lab Number:** L1625234

Project Number: LY15160310 **Report Date:** 09/12/16

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG927320-2

Parameter	% Recovery	Qual	QC Criteria
Total Organic Carbon (Rep1)	101		75-125
Total Organic Carbon (Rep2)	98		75-125

Project Name: LDW/AC PILOT STUDY **Lab Number:** L1625234

Project Number: LY15160310 **Report Date:** 09/12/16

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG927380-2

Parameter	% Recovery	Qual	QC Criteria
% Soot (Rep 1)	115		75-125
% Soot (Rep 2)	112		75-125

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1625234-01A	Glass 500ml/16oz unpreserved	A	N/A	24.6	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-CFINE(),A2-HYDRO-CGRAVEL(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND(),A2-HYDRO-SFINE(),A2-HYDRO-TSAND(),A2-HYDRO-COBBLES(),A2-HYDRO-FGRAVEL()
L1625234-01B	Glass 250ml/8oz unpreserved	A	N/A	24.6	Y	Absent	A2-PB-6020T(180),A2-SVOC-8270(14),A2-ZN-6020T(180),A2-HG-7474T(28),A2-SOOT(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-AG-6020T(180),A2-CU-6020T(180),A2-PREP-3050:1T(180)
L1625234-01C	Glass 500ml/16oz unpreserved	A	N/A	24.6	Y	Absent	A2-PB-6020T(180),A2-SVOC-8270(14),A2-ZN-6020T(180),A2-HG-7474T(28),A2-SOOT(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-AG-6020T(180),A2-CU-6020T(180),A2-PREP-3050:1T(180)
L1625234-01D	Glass 250ml/8oz unpreserved	A	N/A	24.6	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-CFINE(),A2-HYDRO-CGRAVEL(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND(),A2-HYDRO-SFINE(),A2-HYDRO-TSAND(),A2-HYDRO-COBBLES(),A2-HYDRO-FGRAVEL()

*Values in parentheses indicate holding time in days

Project Name: LDW/AC PILOT STUDY
Project Number: LY15160310

Lab Number: L1625234
Report Date: 09/12/16

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1625234-02A	Glass 500ml/16oz unpreserved	A	N/A	24.6	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-CFINE(),A2-HYDRO-CGRAVEL(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND(),A2-HYDRO-SFINE(),A2-HYDRO-TSAND(),A2-HYDRO-COBBLES(),A2-HYDRO-FGRAVEL()
L1625234-02B	Glass 250ml/8oz unpreserved	A	N/A	24.6	Y	Absent	A2-PB-6020T(180),A2-SVOC-8270(14),A2-ZN-6020T(180),A2-HG-7474T(28),A2-SOOT(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-AG-6020T(180),A2-CU-6020T(180),A2-PREP-3050:1T(180)
L1625234-02C	Glass 500ml/16oz unpreserved	A	N/A	24.6	Y	Absent	A2-PB-6020T(180),A2-SVOC-8270(14),A2-ZN-6020T(180),A2-HG-7474T(28),A2-SOOT(28),A2-CR-6020T(180),A2-TS(7),A2-AS-6020T(180),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PREP-3050:2T(180),A2-TOC-9060-2REPS(28),A2-AG-6020T(180),A2-CU-6020T(180),A2-PREP-3050:1T(180)
L1625234-02D	Glass 250ml/8oz unpreserved	A	N/A	24.6	Y	Absent	A2-HYDRO-TFINE(),A2-HYDRO-CFINE(),A2-HYDRO-CGRAVEL(),A2-HYDRO-FSAND(),A2-HYDRO-MSAND(),A2-HYDRO-TGRAVEL(),A2-HYDRO-CSAND(),A2-HYDRO-SFINE(),A2-HYDRO-TSAND(),A2-HYDRO-COBBLES(),A2-HYDRO-FGRAVEL()

*Values in parentheses indicate holding time in days

Project Name: LDW/AC PILOT STUDY **Lab Number:** L1625234

Project Number: LY15160310 **Report Date:** 09/12/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers

Project Name: LDW/AC PILOT STUDY **Lab Number:** L1625234

Project Number: LY15160310 **Report Date:** 09/12/16

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: LDW/AC PILOT STUDY **Lab Number:** L1625234
Project Number: LY15160310 **Report Date:** 09/12/16

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.

91 Analysis of Soot following ES&T publications by Accardi-Dey and Gschwend, 2003; and Gustafsson (et. al.), 1997.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

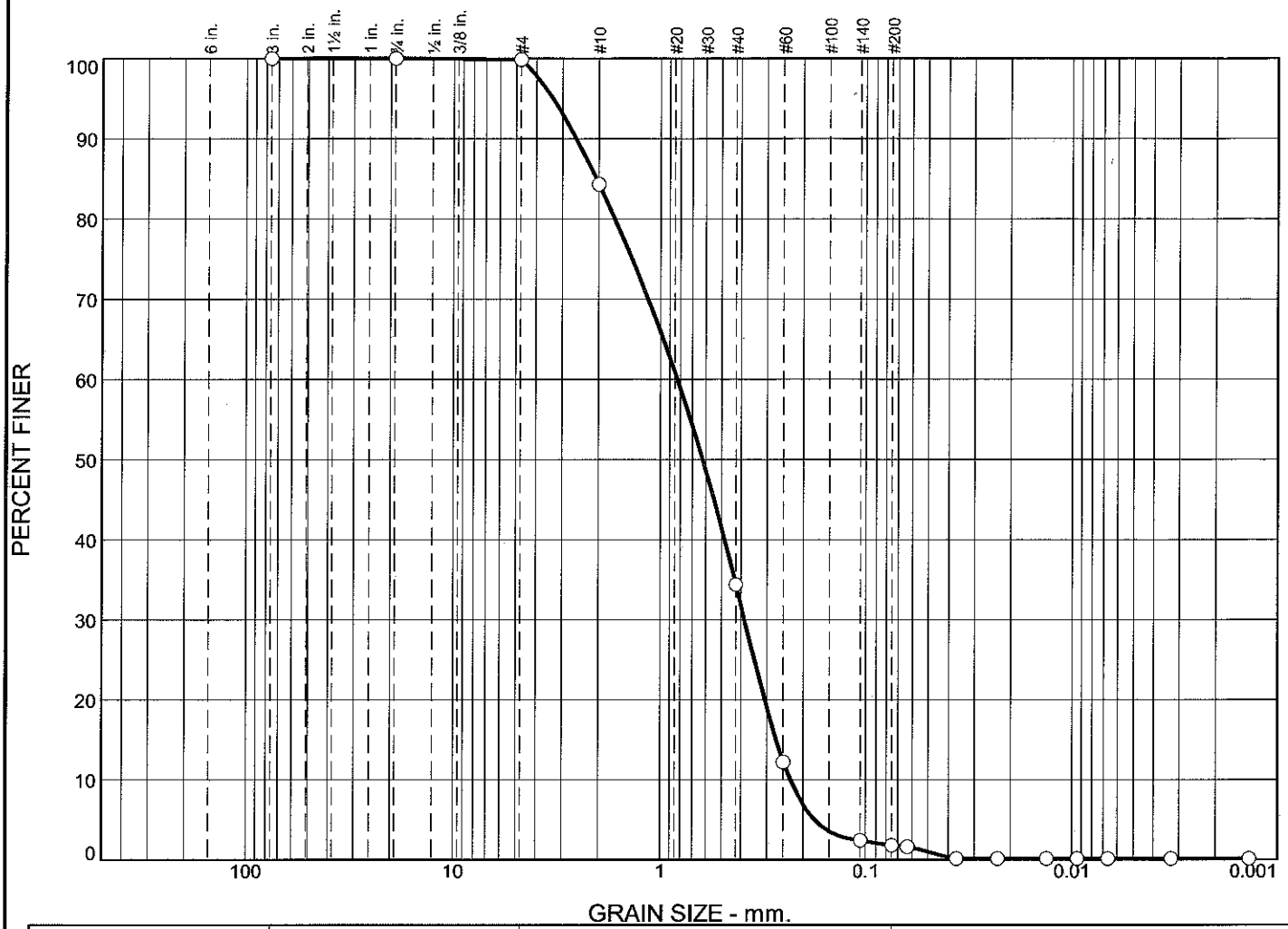
Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

ASTM D422-63

GRAIN SIZE ANALYSIS

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.2	15.5	49.9	32.6	1.6	0.2

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.0607	0.8294	0.6235	0.3857	0.2714	0.2314	0.78	3.58

Material Description	USCS	AASHTO
○		

Project No. **Client:**

Project:

○ **Source:** LDW-BA-PC-ENRMAT-SAND **Sample No.:** L1625234-01

Remarks:

Alpha Analytical

Mansfield, MA

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

9/8/2016

Location: LDW-BA-PC-ENRMAT-SAND

Sample Number: L1625234-01

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 157.22
Tare Wt. = 0.00
Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
157.22	0.00	3"	0.00	0.00	100.0
		.75"	0.00	0.00	100.0
		#4	0.27	0.00	99.8
		#10	24.41	0.00	84.3
		#40	78.49	0.00	34.4
		#60	34.85	0.00	12.2
		#140	15.42	0.00	2.4
		#200	0.96	0.00	1.8
		#230	0.30	0.00	1.6

Hydrometer Test Data

Hydrometer test uses material passing #200
Percent passing #200 based upon complete sample = 1.8
Weight of hydrometer sample =157.22
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = 1
Meniscus correction only = 0.0
Specific gravity of solids = 2.65
Hydrometer type = 151H
Hydrometer effective depth equation: L = 16.294964 - 0.2645 **x Rm**

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
2.00	20.0	1.0075	1.0085	0.0136	7.5	14.3	0.0365	0.2
5.00	20.0	1.0075	1.0085	0.0136	7.5	14.3	0.0231	0.2
15.00	20.0	1.0075	1.0085	0.0136	7.5	14.3	0.0133	0.2
30.00	20.0	1.0075	1.0085	0.0136	7.5	14.3	0.0094	0.2
60.00	20.0	1.0075	1.0085	0.0136	7.5	14.3	0.0067	0.2
250.00	20.0	1.0070	1.0080	0.0136	7.0	14.4	0.0033	0.1
1440.00	20.0	1.0070	1.0080	0.0136	7.0	14.4	0.0014	0.1

Fractional Components

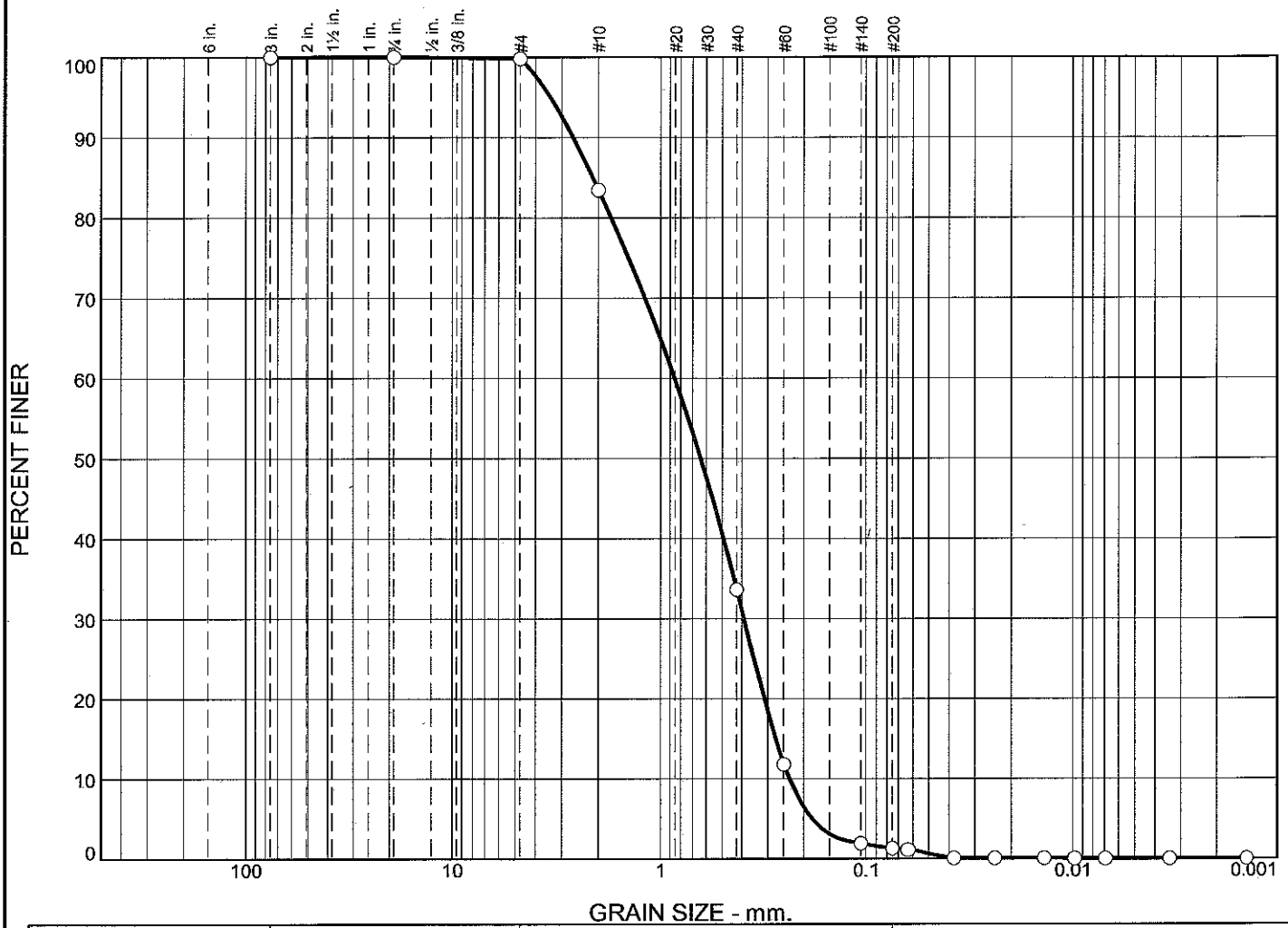
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.2	0.2	15.5	49.9	32.6	98.0	1.6	0.2	1.8

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.2314	0.2714	0.3081	0.3857	0.6235	0.8294	1.6732	2.0607	2.5809	3.3471

Fineness Modulus	C_u	C_c
2.70	3.58	0.78

Alpha Analytical

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.2	16.4	49.8	32.3	1.3	0.0

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.1333	0.8570	0.6400	0.3914	0.2747	0.2348	0.76	3.65

	Material Description	USCS	AASHTO
○			

Project No. **Client:**

Project:

○ **Source:** LDW-BA-PC-ENRMAT-SAND **Sample No.:** WG929977-1

Remarks:

Alpha Analytical

Mansfield, MA

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

9/8/2016

Location: LDW-BA-PC-ENRMAT-SAND
Sample Number: WG929977-1

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 170.75
Tare Wt. = 0.00
Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
170.75	0.00	3"	0.00	0.00	100.0
		.75"	0.00	0.00	100.0
		#4	0.36	0.00	99.8
		#10	27.90	0.00	83.4
		#40	85.04	0.00	33.6
		#60	37.29	0.00	11.8
		#140	16.93	0.00	1.9
		#200	1.02	0.00	1.3
		#230	0.30	0.00	1.1

Hydrometer Test Data

Hydrometer test uses material passing #200
Percent passing #200 based upon complete sample = 1.3
Weight of hydrometer sample =170.75
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = 1
Meniscus correction only = 0.0
Specific gravity of solids = 2.65
Hydrometer type = 151H
Hydrometer effective depth equation: L = 16.294964 - 0.2645 **x Rm**

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
2.00	20.0	1.0035	1.0045	0.0136	3.5	15.4	0.0378	0.1
5.00	20.0	1.0035	1.0045	0.0136	3.5	15.4	0.0239	0.1
15.00	20.0	1.0035	1.0045	0.0136	3.5	15.4	0.0138	0.1
30.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0098	0.0
60.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0069	0.0
250.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0034	0.0
1440.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0014	0.0

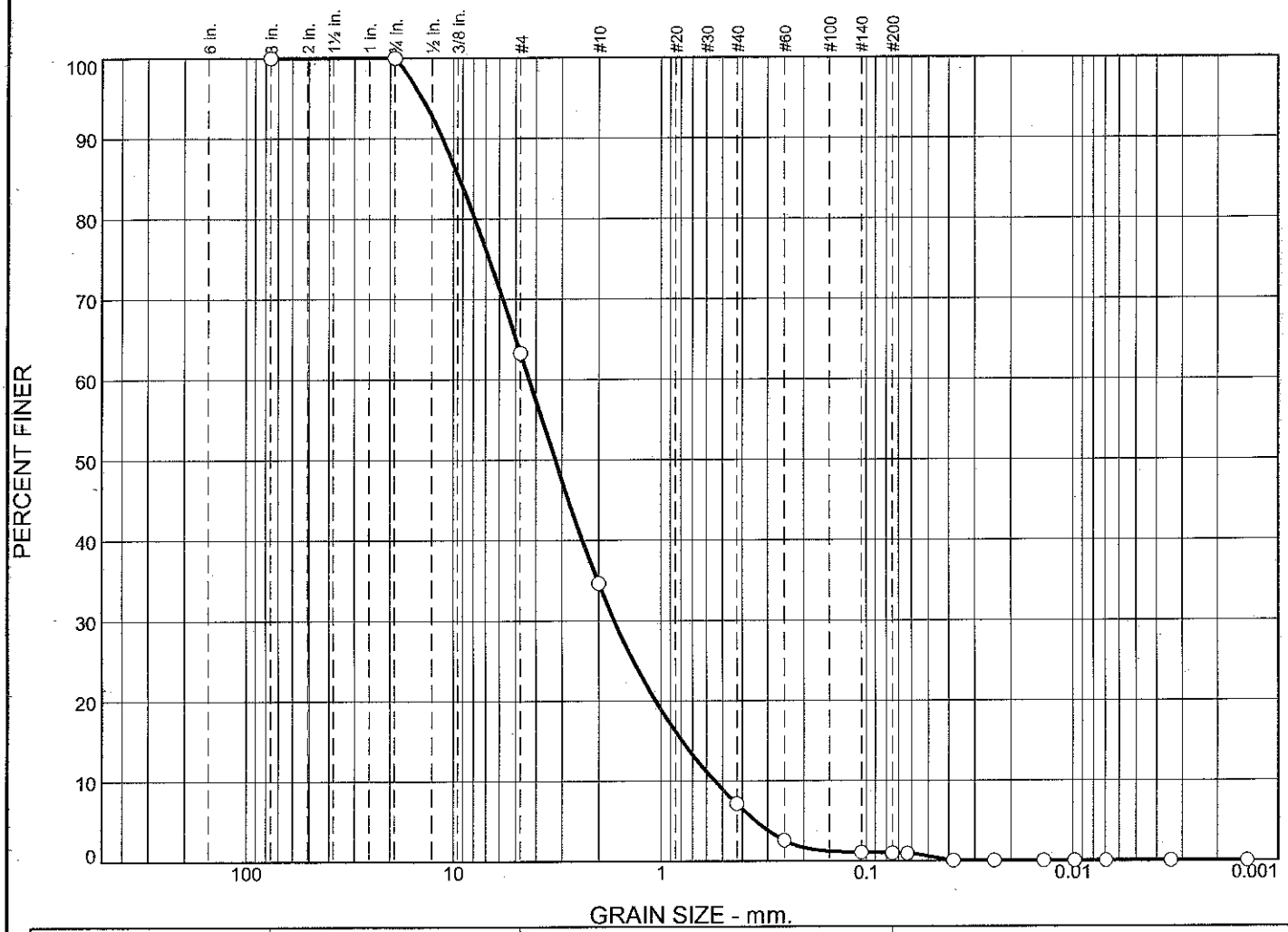
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.2	0.2	16.4	49.8	32.3	98.5	1.3	0.0	1.3

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.2348	0.2747	0.3119	0.3914	0.6400	0.8570	1.7387	2.1333	2.6552	3.4126

Fineness Modulus	C_u	C_c
2.74	3.65	0.76

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	36.7	28.7	27.4	6.2	1.0	0.0

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			9.3638	4.3218	3.2407	1.6819	0.7895	0.5458	1.20	7.92

Material Description	USCS	AASHTO
○	SW	

Project No. **Client:**

Project:

○ **Source:** LDW-BA-PC-ENRMAT-GRAVSAND **Sample No.:** L1625234-02

Remarks:

Alpha Analytical

Mansfield, MA

Figure

GRAIN SIZE DISTRIBUTION TEST DATA

9/9/2016

Location: LDW-BA-PC-ENRMAT-GRAVSAND
Sample Number: L1625234-02
USCS Classification: SW

Sieve Test Data

Post #200 Wash Test Weights (grams): Dry Sample and Tare = 145.20
Tare Wt. = 0.00
Minus #200 from wash = 0.0%

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
145.20	0.00	3"	0.00	0.00	100.0
		.75"	0.00	0.00	100.0
		#4	53.31	0.00	63.3
		#10	41.58	0.00	34.6
		#40	39.91	0.00	7.2
		#60	6.63	0.00	2.6
		#140	2.18	0.00	1.1
		#200	0.17	0.00	1.0
		#230	0.08	0.00	0.9

Hydrometer Test Data

Hydrometer test uses material passing #200
Percent passing #200 based upon complete sample = 1.0
Weight of hydrometer sample =145.20
Automatic temperature correction
Composite correction (fluid density and meniscus height) at 20 deg. C = 1
Meniscus correction only = 0.0
Specific gravity of solids = 2.65
Hydrometer type = 151H
Hydrometer effective depth equation: L = 16.294964 - 0.2645 x Rm

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
2.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0380	0.0
5.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0240	0.0
15.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0139	0.0
30.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0098	0.0
60.00	20.0	1.0030	1.0040	0.0136	3.0	15.5	0.0069	0.0
250.00	20.0	1.0025	1.0035	0.0136	2.5	15.6	0.0034	0.0
1440.00	20.0	1.0025	1.0035	0.0136	2.5	15.6	0.0014	0.0

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	36.7	36.7	28.7	27.4	6.2	62.3	1.0	0.0	1.0

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.5458	0.7895	1.0630	1.6819	3.2407	4.3218	7.8943	9.3638	11.3090	14.1066

Fineness Modulus	C_u	C_c
4.73	7.92	1.20

Alpha Analytical

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: ***EPA 3050B***

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab:

ALPHA Job #: L1625234

Project Information

Project Name: LDW/AC Pilot Study
Project Location: LDW
Project #: LY15160310
Project Manager: Liz Porta
ALPHA Quote #: M2015033

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due:

Report Information - Data Deliverables

☐ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #:

Client Information

Client: AmecFoster Wheeler
Address: 3500 188th St. SW Suite 601, Lynnwood, WA 98037
Phone: 425-921-4008
Email: jessica.youngblood@amecfw.com
*EDD format should be as developed w/ Floyd Snider

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:
POC: Gretchen Heavner
- gretchen.heavner@floydsnider.com
#206.292.2078
- Please refer to Gretchen for all technical questions

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC: ☐ 8260 ☐ 624 ☐ 524.2	SVOC: ☐ ABN ☐ PAH	METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15	METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13	EPH: ☐ Ranges & Targets ☐ Ranges Only	VPH: ☐ Ranges & Targets ☐ Ranges Only	☐ PCB ☐ PEST	TPH: ☐ Quant Only ☐ Fingerprint	TAL Metals	SVOCs EPA 8270D	TOC EPA 9060A(m)	Grain Size ASTM D422	Black Carbon Gustafson (1997)	Sample Comments	TOTAL # BOTTLES
25234-1	LDW-BA-PC-ENRMAT-SAND	8/10/16	1030	Sediment	RG									X	X	X	X	X		4
↓ -2	LDW-BA-PC-ENRMAT-GRVSAND	8/10/16	1045	Sediment	RG									X	X	X	X	X		4
Container Type														AG	AG	AG	AG	AG		
Preservative														NA	NA	NA	NA	NA		

SAMPLE INFO
Filtration: ☐ Field ☐ Lab to do
Preservation: ☐ Lab to do

w/ Teflon Lid
Not environmental sample so not necessary for all

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H= $Na_2S_2O_3$, I= Ascorbic Acid, J= NH_4Cl, K= Zn Acetate, O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
Jessica Youngblood	8/10/16	Fedex	
Fedex		[signature]	08/11/16 10:58

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

Alpha
Summary Forms

Inorganic Summary Forms

Form 1
METALS

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: L1625234-01	Date Collected	: 08/10/16 10:30
Client ID	: LDW-BA-PC-ENRMAT-SAND	Date Received	: 08/11/16
Sample Location	: LDW	Date Analyzed	: 08/25/16 20:55
Sample Matrix	: Sediment	Dilution Factor	: 2
Analytical Method	: 1,6020A	Analyst	: DB
Lab File ID	: WG926086.pcl	Instrument ID	: ICPMS2
Sample Amount	: 1.64g	%Solids	: 96
Digestion Method	: EPA 3050B	Date Digested	: 08/25/16

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-22-4	Silver, Total	0.047	0.032	0.001	

Form 1
METALS

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: L1625234-02	Date Collected	: 08/10/16 10:45
Client ID	: LDW-BA-PC-ENRMAT-GRAVSAND	Date Received	: 08/11/16
Sample Location	: LDW	Date Analyzed	: 08/25/16 20:59
Sample Matrix	: Sediment	Dilution Factor	: 2
Analytical Method	: 1,6020A	Analyst	: DB
Lab File ID	: WG926086.pcl	Instrument ID	: ICPMS2
Sample Amount	: 1.55g	%Solids	: 97
Digestion Method	: EPA 3050B	Date Digested	: 08/25/16

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-22-4	Silver, Total	0.025	0.033	0.001	J

Form 1
METALS

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: WG925955-1	Date Collected	: NA
Client ID	: WG925955-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 08/25/16 20:52
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6020A	Analyst	: DB
Lab File ID	: WG926086.pcl	Instrument ID	: ICPMS2
Sample Amount	: 1g	%Solids	: NA
Digestion Method	: EPA 3050B	Date Digested	: 08/25/16

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-22-4	Silver, Total	ND	0.050	0.001	U

Form 1
METALS

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: WG925955-3	Date Collected	: 08/10/16 10:30
Client ID	: LDW-BA-PC-ENRMAT-SANDDUP	Date Received	: 08/11/16
Sample Location	:	Date Analyzed	: 08/25/16 20:56
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6020A	Analyst	: DB
Lab File ID	: WG926086.pcl	Instrument ID	: ICPMS2
Sample Amount	: 2g	%Solids	: 96
Digestion Method	: EPA 3050B	Date Digested	: 08/25/16

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-22-4	Silver, Total	0.037	0.026	0.001	

Form 2A
Initial and Continuing Calibration Verification

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Instrument ID	: ICPMS2	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R895525-4			R895525-9			R895525-21		R895525-24	
Date Analyzed :	08/25/16 19:01			08/25/16 19:08			08/25/16 20:22		08/25/16 21:00	
Parameter	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Silver	0.0500	0.0482	96.	0.0500	0.0494	99.	0.0479	96.	0.0495	99.

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Instrument ID	: ICPMS2	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R895525-26			R895525-35			
Date Analyzed :				08/25/16 21:05			08/25/16 22:01			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Silver				0.0500	0.0499	100	0.0501	100.		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2B
CRI Check Standard

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Instrument ID	: ICPMS2	**Units**	: mg/L

	Initial	Final
Lab ID :	R895525-6	R895525-37
Date Analyzed :	08/25/16 19:03	08/25/16 22:03

Parameter	True	Found	%R	Found	%R
Silver	0.000200	0.000185	93	0.000220	110

Acceptance Criteria: Methods 200.7, 6010

CRI: 70-130%

Form 3
Blanks

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Instrument ID	: ICPMS2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R895525-5		R895525-10		R895525-23		R895525-25		WG925955-1	
Date Analyzed :	08/25/16 19:02		08/25/16 19:09		08/25/16 20:51		08/25/16 21:01		08/25/16 20:52	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/kg	Q
Silver	0.0000290	J	0.0000184	J	0.0000109	U	0.0000109	U	0.001	U

Form 3
Blanks

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Instrument ID	: ICPMS2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R895525-27		R895525-36					
Date Analyzed :			08/25/16 21:19		08/25/16 22:02					
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Silver			0.0000109	U	0.0000109	U				

Form 4a
Interference Check Sample

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: ICPMS2	Concentration Units	: mg/L

	True		Initial Found				Final Found			
Lab ID :			R895525-7		R895525-8					
Analysis Date :			08/25/16 19:04		08/25/16 19:06					
	Sol.	Sol.	Sol.		Sol.		Sol.		Sol.	
Analyte	A	AB	A	%R	AB	%R	A	%R	AB	%R
Silver		0.05	0.000241		0.0415	83				

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-SAND	Matrix	: SOIL
Lab Sample ID	: L1625234-01		
Matrix Spike	: WG925955-4	MS Analysis Date	: 08/25/16 20:57
Matrix Spike Dup	: WG925955-5	MSD Analysis Date	: 08/25/16 20:58

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/kg)	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	RPD	Recovery Limits	RPD Limit
Silver, Total	0.047	1.16	1.12	93	1.09	1.00	88	11	75-125	20

Form 5a
Matrix Spike

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-GRAVSAND	Matrix	: SOIL
Lab Sample ID	: L1625234-02		
Matrix Spike	: WG925955-6	MS Analysis Date	: 08/25/16 21:02
Matrix Spike Dup	: WG925955-7	MSD Analysis Date	: 08/25/16 21:03

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/kg)	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	RPD	Recovery Limits	RPD Limit
Silver, Total	0.025J	1.19	1.13	95	1.09	1.03	94	9	75-125	20

Form 6
Lab Duplicates

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-SAND	Matrix	: SOIL
Lab Sample ID	: L1625234-01	Analysis Date	: 08/25/16 20:55
Dup Sample ID	: WG925955-3	DUP Analysis Date	: 08/25/16 20:56

Parameter	Sample Concentration (mg/kg)	Duplicate Concentration (mg/kg)	RPD	RPD Limit
Silver, Total	0.047	0.037	24 Q	20

Form 7
Laboratory Control Sample

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: NA	Matrix	: SOIL
Lab Sample ID	: WG925955-2	LCS Analysis Date	: 08/25/16 20:54
Dup Sample ID	:	LCSD Analysis Date	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/kg)	Found (mg/kg)	%R	True (mg/kg)	Found (mg/kg)	%R	RPD	Recovery Limits	RPD Limit
Silver, Total	59.6	52.4	88.					75-125	20

Form 12
Preparation Log

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Matrix	: SOIL	**Prep Method**	: EPA 3050B

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L1625234-01	08/25/16 14:10	1.64	-
L1625234-02	08/25/16 14:10	1.55	-
WG925955-1	08/25/16 14:10	1.00	-
WG925955-2	08/25/16 14:10	1.13	-
WG925955-3	08/25/16 14:10	2.00	-
WG925955-4	08/25/16 14:10	1.80	-
WG925955-5	08/25/16 14:10	1.92	-
WG925955-6	08/25/16 14:10	1.74	-
WG925955-7	08/25/16 14:10	1.89	-

Form 13
Analysis Run Log

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: ICPMS2	Analysis Method	: 1,6020A
Start Date	: 08/25/16 18:43	End Date	: 08/25/16 22:03

Sample Number	Dilution Factor	Analysis Time	Silver, Total
R895525-38 TUNE		18:43:00	
R895525-4 ICV	1	19:01:44	X
R895525-5 ICB	1	19:02:46	X
R895525-6 CRI	1	19:03:48	X
R895525-7 ICSA	1	19:04:56	X
R895525-8 ICSAB	1	19:06:04	X
R895525-9 CCV	1	19:08:15	X
R895525-10 CCB	1	19:09:45	X
R895525-21 CCV	1	20:22:58	X
R895525-23 CCB	1	20:51:26	X
WG925955-1 BLANK	2	20:52:32	X
WG925955-2 LCS	2	20:53:23	
WG925955-2 LCS	10	20:54:14	X
L1625234-01	2	20:55:06	X
WG925955-3 DUP	2	20:56:48	X
WG925955-4 MS	2	20:57:39	X
WG925955-5 MSD	2	20:58:30	X
L1625234-02	2	20:59:21	X
R895525-24 CCV	1	21:00:15	X
R895525-25 CCB	1	21:01:08	X
WG925955-6 MS	2	21:02:52	X
WG925955-7 MSD	2	21:03:43	X
R895525-26 CCV	1	21:05:35	X
R895525-27 CCB	1	21:19:18	X
R895525-35 CCV	1	22:01:33	X
R895525-36 CCB	1	22:02:26	X
R895525-37 CRI	1	22:03:19	X

Form 14
ICP-MS Tune

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Lab Sample ID	: R895525-38	**Analysis Date**	: 08/25/16 18:43
ICP-MS Instrument	: ICPMS2		

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
9 Be	8.975	0.648	1.092
59 Co	58.925	0.646	1.397
115 In	114.925	0.631	1.234
205 Tl	205.025	0.693	1.092
238 U	238.075	0.669	0.466

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: ICPMS2	Analysis Method	: 1,6020A
Start Date	: 08/25/16	End Date	: 08/25/16

Sample #	Time	Internal Standards %RI For: In
R895525-4 ICV	19:01:44	99
R895525-5 ICB	19:02:46	101
R895525-6 CRI	19:03:48	99
R895525-7 ICSA	19:04:56	92
R895525-8 ICSAB	19:06:04	95
R895525-9 CCV	19:08:15	99
R895525-10 CCB	19:09:45	100
R895525-21 CCV	20:22:58	96
R895525-23 CCB	20:51:26	94
WG925955-1 BLANK	20:52:32	98
WG925955-2 LCS	20:53:23	95
WG925955-2 LCS	20:54:14	83
L1625234-01	20:55:06	90
WG925955-3 DUP	20:56:48	89
WG925955-4 MS	20:57:39	92
WG925955-5 MSD	20:58:30	93
L1625234-02	20:59:21	93
R895525-24 CCV	21:00:15	97
R895525-25 CCB	21:01:08	95
WG925955-6 MS	21:02:52	94
WG925955-7 MSD	21:03:43	94
R895525-26 CCV	21:05:35	96
R895525-27 CCB	21:19:18	98
R895525-35 CCV	22:01:33	91
R895525-36 CCB	22:02:26	93
R895525-37 CRI	22:03:19	96

Form 1
METALS

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: L1625234-01	Date Collected	: 08/10/16 10:30
Client ID	: LDW-BA-PC-ENRMAT-SAND	Date Received	: 08/11/16
Sample Location	: LDW	Date Analyzed	: 08/30/16 14:22
Sample Matrix	: Sediment	Dilution Factor	: 2
Analytical Method	: 1,6020A	Analyst	: DB
Lab File ID	: WG927333.pcl	Instrument ID	: ICPMS2
Sample Amount	: 1.93g	%Solids	: 96
Digestion Method	: EPA 3050B	Date Digested	: 08/25/16

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-38-2	Arsenic, Total	1.85	0.027	0.003	
7440-43-9	Cadmium, Total	0.040	0.011	0.001	
7440-47-3	Chromium, Total	13.9	0.108	0.025	
7440-50-8	Copper, Total	13.0	0.108	0.006	
7440-66-6	Zinc, Total	26.0	0.540	0.140	

Form 1
METALS

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: L1625234-02	Date Collected	: 08/10/16 10:45
Client ID	: LDW-BA-PC-ENRMAT-GRAVSAND	Date Received	: 08/11/16
Sample Location	: LDW	Date Analyzed	: 08/30/16 14:27
Sample Matrix	: Sediment	Dilution Factor	: 2
Analytical Method	: 1,6020A	Analyst	: DB
Lab File ID	: WG927333.pcl	Instrument ID	: ICPMS2
Sample Amount	: 1.86g	%Solids	: 97
Digestion Method	: EPA 3050B	Date Digested	: 08/25/16

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-38-2	Arsenic, Total	2.24	0.028	0.003	
7440-43-9	Cadmium, Total	0.036	0.011	0.001	
7440-47-3	Chromium, Total	14.3	0.111	0.026	
7440-50-8	Copper, Total	12.1	0.111	0.006	
7439-92-1	Lead, Total	1.06	0.033	0.011	
7440-66-6	Zinc, Total	21.3	0.555	0.144	

Form 1
METALS

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: WG925961-1	Date Collected	: NA
Client ID	: WG925961-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 08/30/16 14:13
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6020A	Analyst	: DB
Lab File ID	: WG927333.pcl	Instrument ID	: ICPMS2
Sample Amount	: 1g	%Solids	: NA
Digestion Method	: EPA 3050B	Date Digested	: 08/25/16

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-38-2	Arsenic, Total	0.014	0.050	0.006	J
7440-43-9	Cadmium, Total	ND	0.020	0.003	U
7440-47-3	Chromium, Total	ND	0.200	0.047	U
7440-50-8	Copper, Total	0.027	0.200	0.011	J
7439-92-1	Lead, Total	ND	0.060	0.019	U
7440-66-6	Zinc, Total	ND	1.00	0.260	U

Form 1
METALS

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: WG925961-3	Date Collected	: 08/10/16 10:30
Client ID	: LDW-BA-PC-ENRMAT-SANDDUP	Date Received	: 08/11/16
Sample Location	:	Date Analyzed	: 08/30/16 14:23
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6020A	Analyst	: DB
Lab File ID	: WG927333.pcl	Instrument ID	: ICPMS2
Sample Amount	: 1.93g	%Solids	: 96
Digestion Method	: EPA 3050B	Date Digested	: 08/25/16

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-38-2	Arsenic, Total	1.82	0.027	0.003	
7440-43-9	Cadmium, Total	0.040	0.011	0.001	
7440-47-3	Chromium, Total	14.2	0.108	0.025	
7440-50-8	Copper, Total	13.0	0.108	0.006	
7440-66-6	Zinc, Total	24.1	0.540	0.140	

Form 2A
Initial and Continuing Calibration Verification

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: ICPMS2	Units	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R896339-2			R896339-7			R896339-10		R896339-12	
Date Analyzed :	08/30/16 13:27			08/30/16 13:43			08/30/16 14:07		08/30/16 14:17	
Parameter	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Arsenic	0.0500	0.0502	100.	0.0500	0.0520	104.	0.0506	101.	0.0524	105.
Cadmium	0.0500	0.0514	103.	0.0500	0.0505	101.	0.0509	102.	0.0507	101.
Chromium	0.0500	0.0498	100	0.0500	0.0514	103.	0.0514	103.	0.0510	102.
Copper	0.0500	0.0512	102.	0.0500	0.0512	102.	0.0531	106.	0.0521	104.
Lead	0.0500	0.0517	103.	0.0500	0.0521	104.	0.0532	106.	0.0534	107.
Zinc	0.0500	0.0514	103.	0.0500	0.0521	104.	0.0529	106.	0.0523	105.

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: ICPMS2	Units	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R896339-15			R896339-17			
Date Analyzed :				08/30/16 14:32			08/30/16 14:35			
Parameter	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Arsenic				0.0500	0.0562	112.	0.0511	102.		
Cadmium				0.0500	0.0518	104.	0.0515	103.		
Chromium				0.0500	0.0521	104.	0.0530	106.		
Copper				0.0500	0.0533	107.	0.0519	104.		
Lead				0.0500	0.0531	106.	0.0530	106.		
Zinc				0.0500	0.0535	107.	0.0532	106.		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2B
CRI Check Standard

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Instrument ID	: ICPMS2	**Units**	: mg/L

	Initial	Final
Lab ID :	R896339-4	R896339-19
Date Analyzed :	08/30/16 13:29	08/30/16 14:41

Parameter	True	Found	%R	Found	%R
Arsenic	0.000500	0.000517	103	0.000715	143
Cadmium	0.000200	0.000179	90	0.000183	91
Chromium	0.000500	0.000618	124	0.000563	113
Copper	0.000500	0.000540	108	0.000594	119
Lead	0.000200	0.000183	92	0.000204	102
Zinc	0.00500	0.00493	99	0.00479	96

Acceptance Criteria: Methods 200.7, 6010

CRI: 70-130%

Form 3
Blanks

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Instrument ID	: ICPMS2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R896339-3		R896339-8		R896339-9		R896339-11		WG925961-1	
Date Analyzed :	08/30/16 13:28		08/30/16 13:45		08/30/16 13:53		08/30/16 14:09		08/30/16 14:13	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/kg	Q
Arsenic	0.000160	J	0.000823	J	0.000138	J	0.000325	J	0.014	J
Cadmium	0.0000264	U	0.0000264	U	0.0000264	U	0.0000264	U	0.003	U
Chromium	0.000469	U	0.000469	U	0.000469	U	0.000469	U	0.047	U
Copper	0.000113	U	0.000113	U	0.000113	U	0.000113	U	0.027	J
Lead	0.000193	U	0.000193	U	0.000193	U	0.000193	U	0.019	U
Zinc	0.00260	U	0.00260	U	0.00260	U	0.00260	U	0.260	U

Form 3
Blanks

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Instrument ID	: ICPMS2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R896339-13		R896339-14		R896339-16			
Date Analyzed :			08/30/16 14:19		08/30/16 14:21		08/30/16 14:34			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Arsenic			0.000664	J	0.000288	J	0.00143	J		
Cadmium			0.0000264	U	0.0000264	U	0.0000264	U		
Chromium			0.000469	U	0.000469	U	0.000469	U		
Copper			0.000113	U	0.000113	U	0.000113	U		
Lead			0.000193	U	0.000193	U	0.000193	U		
Zinc			0.00260	U	0.00260	U	0.00260	U		

Form 3
Blanks

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Instrument ID	: ICPMS2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R896339-18							
Date Analyzed :			08/30/16 14:37							
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Arsenic			0.000420	J						
Cadmium			0.0000264	U						
Chromium			0.000469	U						
Copper			0.000113	U						
Lead			0.000193	U						
Zinc			0.00260	U						

Form 4a
Interference Check Sample

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: ICPMS2	Concentration Units	: mg/L

	True		Initial Found				Final Found			
Lab ID :			R896339-5		R896339-6					
Analysis Date :			08/30/16 13:31		08/30/16 13:32					
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Arsenic		0.1	0.00614		0.111	111				
Cadmium		0.1	0.00194		0.0943	94				
Chromium		0.1	0.00367		0.0971	97				
Copper		0.1	0.00372		0.0959	96				
Lead		0.1	0.000126		0.0899	90				
Zinc		0.1	0.00393		0.0978	98				

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-SAND	Matrix	: SOIL
Lab Sample ID	: L1625234-01		
Matrix Spike	: WG925961-4	MS Analysis Date	: 08/30/16 14:25
Matrix Spike Dup	: WG925961-5	MSD Analysis Date	: 08/30/16 14:26

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/kg)	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	RPD	Recovery Limits	RPD Limit
Arsenic, Total	1.85	118	118.	98	130	136.	104	14	75-125	20
Cadmium, Total	0.040	58.9	60.3	102	64.8	67.1	104	11	75-125	20
Chromium, Total	13.9	118	136.	104	130	154.	108	12	75-125	20
Copper, Total	13.0	118	133.	102	130	149.	105	11	75-125	20
Zinc, Total	26.0	118	136.	93	130	152.	97	11	75-125	20

Form 5a
Matrix Spike

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-GRAVSAND	Matrix	: SOIL
Lab Sample ID	: L1625234-02		
Matrix Spike	: WG925961-6	MS Analysis Date	: 08/30/16 14:30
Matrix Spike Dup	: WG925961-7	MSD Analysis Date	: 08/30/16 14:31

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/kg)	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	RPD	Recovery Limits	RPD Limit
Arsenic, Total	2.24	106	113.	104	107	125.	115	10	75-125	20
Cadmium, Total	0.036	53.2	55.8	105	53.5	57.0	106	2	75-125	20
Chromium, Total	14.3	106	127.	106	107	125.	104	2	75-125	20
Copper, Total	12.1	106	126.	107	107	122.	103	3	75-125	20
Lead, Total	1.06	106	98.6	92	107	96.9	90	2	75-125	20
Zinc, Total	21.3	106	133.	105	107	127.	99	5	75-125	20

Form 6
Lab Duplicates

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-SAND	Matrix	: SOIL
Lab Sample ID	: L1625234-01	Analysis Date	: 08/30/16 14:22
Dup Sample ID	: WG925961-3	DUP Analysis Date	: 08/30/16 14:23

Parameter	Sample Concentration (mg/kg)	Duplicate Concentration (mg/kg)	RPD	RPD Limit
Arsenic, Total	1.85	1.82	2	20
Cadmium, Total	0.040	0.040	2	20
Chromium, Total	13.9	14.2	2	20
Copper, Total	13.0	13.0	0	20
Zinc, Total	26.0	24.1	8	20

Form 7
Laboratory Control Sample

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: NA	Matrix	: SOIL
Lab Sample ID	: WG925961-2	LCS Analysis Date	: 08/30/16 14:15
Dup Sample ID	:	LCSD Analysis Date	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/kg)	Found (mg/kg)	%R	True (mg/kg)	Found (mg/kg)	%R	RPD	Recovery Limits	RPD Limit
Arsenic, Total	221.	245.	111.					80-120	20
Cadmium, Total	126.	136.	108.					82-117	20
Chromium, Total	74.7	75.6	101.					79-121	20
Copper, Total	83.3	90.9	109.					80-119	20
Lead, Total	76.9	81.0	105.					81-119	20
Zinc, Total	338.	379.	112.					80-119	20

Form 12
Preparation Log

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Matrix	: SOIL	**Prep Method**	: EPA 3050B

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L1625234-01	08/25/16 14:10	1.93	-
L1625234-02	08/25/16 14:10	1.86	-
WG925961-1	08/25/16 14:10	1.00	-
WG925961-2	08/25/16 14:10	1.20	-
WG925961-3	08/25/16 14:10	1.93	-
WG925961-4	08/25/16 14:10	1.77	-
WG925961-5	08/25/16 14:10	1.61	-
WG925961-6	08/25/16 14:10	1.94	-
WG925961-7	08/25/16 14:10	1.93	-
WG925961-8	08/25/16 14:10	1.86	-

Form 13
Analysis Run Log

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: ICPMS2	Analysis Method	: 1,6020A
Start Date	: 08/30/16 12:52	End Date	: 08/30/16 14:41

Sample Number	Dilution Factor	Analysis Time	Arsenic, Total	Cadmium, Total	Chromium, Total	Copper, Total	Lead, Total	Zinc, Total
R896339-20 TUNE		12:52:00						
R896339-2 ICV	1	13:27:21	X	X	X	X	X	X
R896339-3 ICB	1	13:28:42	X	X	X	X	X	X
R896339-4 CRI	1	13:29:59	X	X	X	X	X	X
R896339-5 ICSA	1	13:31:31	X	X	X	X	X	X
R896339-6 ICSAB	1	13:32:47	X	X	X	X	X	X
R896339-7 CCV	1	13:43:53	X	X	X	X	X	X
R896339-8 CCB	1	13:45:10	X	X	X	X	X	X
R896339-9 CCB	1	13:53:02	X	X	X	X	X	X
R896339-10 CCV	1	14:07:58	X	X	X	X	X	X
R896339-11 CCB	1	14:09:16	X	X	X	X	X	X
WG925961-1 BLANK	2	14:13:56	X	X	X	X	X	X
WG925961-2 LCS	10	14:15:12	X	X	X	X	X	X
R896339-12 CCV	1	14:17:46	X	X	X	X	X	X
R896339-13 CCB	1	14:19:03	X	X	X	X	X	X
R896339-14 CCB	1	14:21:04	X	X	X	X	X	X
L1625234-01	2	14:22:41	X	X	X	X		X
WG925961-3 DUP	2	14:23:57	X	X	X	X		X
WG925961-4 MS	2	14:25:13	X	X	X	X		X
WG925961-5 MSD	2	14:26:28	X	X	X	X		X
L1625234-02	2	14:27:44	X	X	X	X	X	X
WG925961-8 SERDIL	10	14:29:00						
WG925961-6 MS	2	14:30:16	X	X	X	X	X	X
WG925961-7 MSD	2	14:31:32	X	X	X	X	X	X
R896339-15 CCV	1	14:32:51	X	X	X	X	X	X
R896339-16 CCB	1	14:34:08	X	X	X	X	X	X
R896339-17 CCV	1	14:35:58	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Instrument ID	: ICPMS2	**Analysis Method**	: 1,6020A
Start Date	: 08/30/16 12:52	**End Date**	: 08/30/16 14:41

Sample Number	Dilution Factor	Analysis Time	Arsenic, Total	Cadmium, Total	Chromium, Total	Copper, Total	Lead, Total	Zinc, Total
R896339-18 CCB	1	14:37:50	X	X	X	X	X	X
R896339-19 CRI	1	14:41:02	X	X	X	X	X	X

Form 14
ICP-MS Tune

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Lab Sample ID	: R896339-20	**Analysis Date**	: 08/30/16 12:52
ICP-MS Instrument	: ICPMS2		

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
9 Be	8.975	0.658	1.685
59 Co	58.925	0.642	1.141
115 In	114.925	0.633	1.606
205 Tl	205.025	0.686	1.53
238 U	238.025	0.679	1.087

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: ICPMS2	Analysis Method	: 1,6020A
Start Date	: 08/30/16	End Date	: 08/30/16

Sample #	Time	Internal Standards %RI For:		
		Ge	In	Tb
R896339-2 ICV	13:27:21	101	97	99
R896339-3 ICB	13:28:42	100	99	98
R896339-4 CRI	13:29:59	97	99	97
R896339-5 ICSA	13:31:31	86	92	95
R896339-6 ICSAB	13:32:47	88	92	94
R896339-7 CCV	13:43:53	101	98	99
R896339-8 CCB	13:45:10	100	98	100
R896339-9 CCB	13:53:02	101	99	98
R896339-10 CCV	14:07:58	94	94	97
R896339-11 CCB	14:09:16	96	96	98
WG925961-1 BLANK	14:13:56	99	97	100
WG925961-2 LCS	14:15:12	88	86	96
R896339-12 CCV	14:17:46	96	96	97
R896339-13 CCB	14:19:03	97	97	99
R896339-14 CCB	14:21:04	97	95	98
L1625234-01	14:22:41	92	93	125
WG925961-3 DUP	14:23:57	93	95	122
WG925961-4 MS	14:25:13	90	91	118
WG925961-5 MSD	14:26:28	88	93	118
L1625234-02	14:27:44	92	94	117
WG925961-8 SERDIL	14:29:00	83	80	88
WG925961-6 MS	14:30:16	90	94	118
WG925961-7 MSD	14:31:32	91	94	120
R896339-15 CCV	14:32:51	94	93	98
R896339-16 CCB	14:34:08	97	96	96
R896339-17 CCV	14:35:58	96	93	97
R896339-18 CCB	14:37:50	99	95	98

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: ICPMS2	Analysis Method	: 1,6020A
Start Date	: 08/30/16	End Date	: 08/30/16

Sample #	Time	Internal Standards %RI For:		
		Ge	In	Tb
R896339-19 CRI	14:41:02	98	94	98

Form 1
METALS

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: L1625234-01	Date Collected	: 08/10/16 10:30
Client ID	: LDW-BA-PC-ENRMAT-SAND	Date Received	: 08/11/16
Sample Location	: LDW	Date Analyzed	: 08/31/16 09:13
Sample Matrix	: Sediment	Dilution Factor	: 10
Analytical Method	: 1,6020A	Analyst	: DB
Lab File ID	: WG927615.pcl	Instrument ID	: ICPMS2
Sample Amount	: 1.93g	%Solids	: 96
Digestion Method	: EPA 3050B	Date Digested	: 08/25/16

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-92-1	Lead, Total	1.66	0.162	0.052	

Form 1
METALS

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: WG925961-3	Date Collected	: 08/10/16 10:30
Client ID	: LDW-BA-PC-ENRMAT-SANDDUP	Date Received	: 08/11/16
Sample Location	:	Date Analyzed	: 08/31/16 09:13
Sample Matrix	: SOIL	Dilution Factor	: 10
Analytical Method	: 1,6020A	Analyst	: DB
Lab File ID	: WG927615.pcl	Instrument ID	: ICPMS2
Sample Amount	: 1.93g	%Solids	: 96
Digestion Method	: EPA 3050B	Date Digested	: 08/25/16

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-92-1	Lead, Total	1.64	0.162	0.052	

Form 2A
Initial and Continuing Calibration Verification

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: ICPMS2	Units	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R896360-2			R896360-7						
Date Analyzed :	08/31/16 09:02			08/31/16 09:16						
Parameter	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Lead	0.0500	0.0505	101.	0.0500	0.0513	102.				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2B
CRI Check Standard

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Instrument ID	: ICPMS2	**Units**	: mg/L

	Initial	Final
Lab ID :	R896360-4	R896360-9
Date Analyzed :	08/31/16 09:04	08/31/16 09:20

Parameter	True	Found	%R	Found	%R
Lead	0.000200	0.000188	94	0.000194	97

Acceptance Criteria: Methods 200.7, 6010

CRI: 70-130%

Form 3
Blanks

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Instrument ID	: ICPMS2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R896360-3		R896360-8							
Date Analyzed :	08/31/16 09:03		08/31/16 09:17							
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Lead	0.000193	U	0.000193	U						

Form 4a
Interference Check Sample

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: ICPMS2	Concentration Units	: mg/L

	True		Initial Found				Final Found			
Lab ID :			R896360-5		R896360-6					
Analysis Date :			08/31/16 09:05		08/31/16 09:06					
	Sol.	Sol.	Sol.		Sol.		Sol.		Sol.	
Analyte	A	AB	A	%R	AB	%R	A	%R	AB	%R
Lead		0.1	0.000184		0.0882	88				

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-SAND	Matrix	: SOIL
Lab Sample ID	: L1625234-01		
Matrix Spike	: WG925961-4	MS Analysis Date	: 08/31/16 09:14
Matrix Spike Dup	: WG925961-5	MSD Analysis Date	: 08/31/16 09:15

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/kg)	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	RPD	Recovery Limits	RPD Limit
Lead, Total	1.66	118	125.	105	130	136.	104	8	75-125	20

Form 6
Lab Duplicates

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-SAND	Matrix	: SOIL
Lab Sample ID	: L1625234-01	Analysis Date	: 08/31/16 09:13
Dup Sample ID	: WG925961-3	DUP Analysis Date	: 08/31/16 09:13

Parameter	Sample Concentration (mg/kg)	Duplicate Concentration (mg/kg)	RPD	RPD Limit
Lead, Total	1.66	1.64	1	20

Form 12
Preparation Log

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Matrix	: SOIL	**Prep Method**	: EPA 3050B

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L1625234-01	08/25/16 14:10	1.93	-
WG925961-3	08/25/16 14:10	1.93	-
WG925961-4	08/25/16 14:10	1.77	-
WG925961-5	08/25/16 14:10	1.61	-

Form 13
Analysis Run Log

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: ICPMS2	Analysis Method	: 1,6020A
Start Date	: 08/31/16 08:56	End Date	: 08/31/16 09:20

Sample Number	Dilution Factor	Analysis Time	Lead, Total
R896360-10 TUNE		08:56:00	
R896360-2 ICV	1	09:02:48	X
R896360-3 ICB	1	09:03:41	X
R896360-4 CRI	1	09:04:34	X
R896360-5 ICSA	1	09:05:27	X
R896360-6 ICSAB	1	09:06:19	X
L1625234-01	10	09:13:06	X
WG925961-3 DUP	10	09:13:58	X
WG925961-4 MS	10	09:14:49	X
WG925961-5 MSD	10	09:15:40	X
R896360-7 CCV	1	09:16:33	X
R896360-8 CCB	1	09:17:26	X
R896360-9 CRI	1	09:20:08	X

Form 14
ICP-MS Tune

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Lab Sample ID	: R896360-10	**Analysis Date**	: 08/31/16 08:56
ICP-MS Instrument	: ICPMS2		

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
9 Be	9.075	0.651	0.831
59 Co	58.925	0.645	2.351
115 In	114.875	0.645	1.643
205 Tl	204.925	0.697	1.282
238 U	238.075	0.685	1.612

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: ICPMS2	Analysis Method	: 1,6020A
Start Date	: 08/31/16	End Date	: 08/31/16

Sample #	Time	Internal Standards %RI For: Tb
R896360-2 ICV	09:02:48	100
R896360-3 ICB	09:03:41	100
R896360-4 CRI	09:04:34	98
R896360-5 ICSA	09:05:27	95
R896360-6 ICSAB	09:06:19	96
L1625234-01	09:13:06	105
WG925961-3 DUP	09:13:58	107
WG925961-4 MS	09:14:49	107
WG925961-5 MSD	09:15:40	103
R896360-7 CCV	09:16:33	98
R896360-8 CCB	09:17:26	98
R896360-9 CRI	09:20:08	98

Form 1
METALS

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: L1625234-01	Date Collected	: 08/10/16 10:30
Client ID	: LDW-BA-PC-ENRMAT-SAND	Date Received	: 08/11/16
Sample Location	: LDW	Date Analyzed	: 08/30/16 14:15
Sample Matrix	: Sediment	Dilution Factor	: 5
Analytical Method	: 1,7474	Analyst	: LC
Lab File ID	: WG927330.pcl	Instrument ID	: MERCURYAF
Sample Amount	: 1.18g	%Solids	: 96
Digestion Method	: EPA 7474	Date Digested	: 08/25/16

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.009	0.011	0.001	J

Form 1
METALS

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: L1625234-02	Date Collected	: 08/10/16 10:45
Client ID	: LDW-BA-PC-ENRMAT-GRAVSAND	Date Received	: 08/11/16
Sample Location	: LDW	Date Analyzed	: 08/30/16 14:26
Sample Matrix	: Sediment	Dilution Factor	: 5
Analytical Method	: 1,7474	Analyst	: LC
Lab File ID	: WG927330.pcl	Instrument ID	: MERCURYAF
Sample Amount	: 0.95g	%Solids	: 97
Digestion Method	: EPA 7474	Date Digested	: 08/25/16

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.007	0.014	0.002	J

Form 1
METALS

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: WG925963-1	Date Collected	: NA
Client ID	: WG925963-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 08/30/16 14:10
Sample Matrix	: SOIL	Dilution Factor	: 5
Analytical Method	: 1,7474	Analyst	: LC
Lab File ID	: WG927330.pcl	Instrument ID	: MERCURYAF
Sample Amount	: 1g	%Solids	: NA
Digestion Method	: EPA 7474	Date Digested	: 08/25/16

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	ND	0.013	0.002	U

Form 1
METALS

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: WG925963-3	Date Collected	: 08/10/16 10:30
Client ID	: LDW-BA-PC-ENRMAT-SANDDUP	Date Received	: 08/11/16
Sample Location	:	Date Analyzed	: 08/30/16 14:18
Sample Matrix	: SOIL	Dilution Factor	: 5
Analytical Method	: 1,7474	Analyst	: LC
Lab File ID	: WG927330.pcl	Instrument ID	: MERCURYAF
Sample Amount	: 1g	%Solids	: 96
Digestion Method	: EPA 7474	Date Digested	: 08/25/16

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.017	0.013	0.002	

Form 2A
Initial and Continuing Calibration Verification

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Instrument ID	: MERCURYAF	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R896318-9			R896318-11			R896318-13		R896318-15	
Date Analyzed :	08/30/16 13:23			08/30/16 13:56			08/30/16 14:30		08/30/16 15:41	
Parameter	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Mercury	0.0025	0.0023	92.	0.0025	0.0023	93.	0.0023	93.	0.0025	101.

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Instrument ID	: MERCURYAF		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R896318-10		R896318-12		R896318-14		R896318-16		WG925963-1	
Date Analyzed :	08/30/16 13:26		08/30/16 13:59		08/30/16 14:33		08/30/16 15:44		08/30/16 14:10	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/kg	Q
Mercury	0.00000640	U	0.00000640	U	0.00000640	U	0.00000640	U	0.002	U

Form 5a
Matrix Spike

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-SAND	Matrix	: SOIL
Lab Sample ID	: L1625234-01		
Matrix Spike	: WG925963-4	MS Analysis Date	: 08/30/16 14:20
Matrix Spike Dup	: WG925963-5	MSD Analysis Date	: 08/30/16 14:23

		Matrix Spike Sample			Matrix Spike Duplicate						
Parameter	Sample Conc. (mg/kg)	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	RPD		Recovery Limits	RPD Limit
Mercury, Total	0.009J	0.543	0.550	101	0.724	0.712	98	26	Q	80-120	20

Form 5a
Matrix Spike

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-GRAVSAND	Matrix	: SOIL
Lab Sample ID	: L1625234-02		
Matrix Spike	: WG925963-6	MS Analysis Date	: 08/30/16 14:28
Matrix Spike Dup	: WG925963-7	MSD Analysis Date	: 08/30/16 14:48

		Matrix Spike Sample			Matrix Spike Duplicate						
Parameter	Sample Conc. (mg/kg)	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	RPD		Recovery Limits	RPD Limit
Mercury, Total	0.007J	0.741	0.689	93	0.551	0.560	102	21	Q	80-120	20

Form 6
Lab Duplicates

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-SAND	Matrix	: SOIL
Lab Sample ID	: L1625234-01	Analysis Date	: 08/30/16 14:15
Dup Sample ID	: WG925963-3	DUP Analysis Date	: 08/30/16 14:18

Parameter	Sample Concentration (mg/kg)	Duplicate Concentration (mg/kg)	RPD	RPD Limit
Mercury, Total	0.009J	0.017	NC	20

Form 7
Laboratory Control Sample

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: NA	Matrix	: SOIL
Lab Sample ID	: WG925963-2	LCS Analysis Date	: 08/30/16 14:13
Dup Sample ID	:	LCSD Analysis Date	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/kg)	Found (mg/kg)	%R	True (mg/kg)	Found (mg/kg)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Total	13.8	16.6	120.					57-143	20

Form 12
Preparation Log

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Matrix	: SOIL	**Prep Method**	: EPA 7474

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L1625234-01	08/25/16 14:10	1.18	-
L1625234-02	08/25/16 14:10	0.95	-
WG925963-1	08/25/16 14:10	1.00	-
WG925963-2	08/25/16 14:10	0.55	-
WG925963-3	08/25/16 14:10	1.00	-
WG925963-4	08/25/16 14:10	1.20	-
WG925963-5	08/25/16 14:10	0.90	-
WG925963-6	08/25/16 14:10	0.87	-
WG925963-7	08/25/16 14:10	1.17	-

Form 13
Analysis Run Log

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: MERCURYAF	Analysis Method	: 1,7474
Start Date	: 08/30/16 12:47	End Date	: 08/30/16 15:44

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R896318-9 ICV	1	13:23:00	X
R896318-10 ICB	1	13:26:00	X
R896318-11 CCV	1	13:56:00	X
R896318-12 CCB	1	13:59:00	X
WG925963-1 BLANK	5	14:10:00	X
WG925963-2 LCS	50	14:13:00	X
L1625234-01	5	14:15:00	X
WG925963-3 DUP	5	14:18:00	X
WG925963-4 MS	5	14:20:00	X
WG925963-5 MSD	5	14:23:00	X
L1625234-02	5	14:26:00	X
WG925963-6 MS	5	14:28:00	X
R896318-13 CCV	1	14:30:00	X
R896318-14 CCB	1	14:33:00	X
WG925963-7 MSD	5	14:48:00	X
R896318-15 CCV	1	15:41:00	X
R896318-16 CCB	1	15:44:00	X

Organic Summary Forms

Form 1
SemiVolatile Organics

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: L1625234-01	Date Collected	: 08/10/16 10:30
Client ID	: LDW-BA-PC-ENRMAT-SAND	Date Received	: 08/11/16
Sample Location	: LDW	Date Analyzed	: 09/09/16 22:17
Sample Matrix	: Sediment	Date Extracted	: 09/07/16
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: F809091622	Analyst	: ML
Sample Amount	: 30.6 g	Instrument ID	: BNA8
Extraction Method	: EPA 3570	GC Column	: ZB-SemiVolatiles
Extract Volume	: 2000 uL	%Solids	: 96
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
108-95-2	Phenol	ND	34.1	3.24	U
106-46-7	1,4-Dichlorobenzene	ND	34.1	7.09	U
95-50-1	1,2-Dichlorobenzene	ND	34.1	7.43	U
100-51-6	Benzyl alcohol	ND	68.2	22.6	U
106-44-5	4-Methylphenol	ND	34.1	4.46	U
105-67-9	2,4-Dimethylphenol	ND	34.1	5.62	U
65-85-0	Benzoic acid	ND	2040	433.	U
120-82-1	1,2,4-Trichlorobenzene	ND	34.1	2.10	U
91-20-3	Naphthalene	ND	34.1	2.29	U
91-57-6	2-Methylnaphthalene	ND	34.1	2.68	U
131-11-3	Dimethylphthalate	ND	34.1	2.66	U
83-32-9	Acenaphthene	ND	34.1	3.41	U
132-64-9	Dibenzofuran	ND	34.1	2.55	U
86-73-7	Fluorene	ND	34.1	2.52	U
86-30-6	n-Nitrosodiphenylamine	ND	34.1	2.39	U
118-74-1	Hexachlorobenzene	ND	34.1	3.32	U
87-86-5	Pentachlorophenol	ND	204	61.3	U
85-01-8	Phenanthrene	ND	34.1	2.17	U
120-12-7	Anthracene	ND	34.1	1.74	U
206-44-0	Fluoranthene	ND	34.1	2.94	U
129-00-0	Pyrene	ND	34.1	2.81	U
85-68-7	Butylbenzylphthalate	ND	34.1	6.88	U
56-55-3	Benz(a)anthracene	ND	34.1	1.98	U
218-01-9	Chrysene	ND	34.1	2.38	U

Form 1
SemiVolatile Organics

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: L1625234-01	Date Collected	: 08/10/16 10:30
Client ID	: LDW-BA-PC-ENRMAT-SAND	Date Received	: 08/11/16
Sample Location	: LDW	Date Analyzed	: 09/09/16 22:17
Sample Matrix	: Sediment	Date Extracted	: 09/07/16
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: F809091622	Analyst	: ML
Sample Amount	: 30.6 g	Instrument ID	: BNA8
Extraction Method	: EPA 3570	GC Column	: ZB-SemiVolatiles
Extract Volume	: 2000 uL	%Solids	: 96
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
117-81-7	bis(2-Ethylhexyl)phthalate	ND	34.1	8.93	U
205-99-2	Benzo(b)fluoranthene	ND	34.1	2.98	U
207-08-9	Benzo(k)fluoranthene	ND	34.1	2.60	U
50-32-8	Benzo(a)pyrene	ND	34.1	2.46	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34.1	2.81	U
53-70-3	Dibenz(a,h)anthracene	ND	34.1	3.53	U
191-24-2	Benzo(g,h,i)perylene	ND	34.1	2.64	U

Form 1
SemiVolatile Organics

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: L1625234-02	Date Collected	: 08/10/16 10:45
Client ID	: LDW-BA-PC-ENRMAT-GRAVSAND	Date Received	: 08/11/16
Sample Location	: LDW	Date Analyzed	: 09/10/16 00:19
Sample Matrix	: Sediment	Date Extracted	: 09/07/16
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: F809091626	Analyst	: ML
Sample Amount	: 30.31 g	Instrument ID	: BNA8
Extraction Method	: EPA 3570	GC Column	: ZB-SemiVolatiles
Extract Volume	: 2000 uL	%Solids	: 97
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
108-95-2	Phenol	ND	34.0	3.23	U
106-46-7	1,4-Dichlorobenzene	ND	34.0	7.08	U
95-50-1	1,2-Dichlorobenzene	ND	34.0	7.42	U
100-51-6	Benzyl alcohol	ND	68.1	22.6	U
106-44-5	4-Methylphenol	ND	34.0	4.45	U
105-67-9	2,4-Dimethylphenol	ND	34.0	5.61	U
65-85-0	Benzoic acid	ND	2040	432.	U
120-82-1	1,2,4-Trichlorobenzene	ND	34.0	2.10	U
91-20-3	Naphthalene	ND	34.0	2.29	U
91-57-6	2-Methylnaphthalene	ND	34.0	2.68	U
131-11-3	Dimethylphthalate	ND	34.0	2.66	U
83-32-9	Acenaphthene	ND	34.0	3.40	U
132-64-9	Dibenzofuran	ND	34.0	2.55	U
86-73-7	Fluorene	ND	34.0	2.52	U
86-30-6	n-Nitrosodiphenylamine	ND	34.0	2.39	U
118-74-1	Hexachlorobenzene	ND	34.0	3.32	U
87-86-5	Pentachlorophenol	ND	204	61.2	U
85-01-8	Phenanthrene	ND	34.0	2.16	U
120-12-7	Anthracene	ND	34.0	1.74	U
206-44-0	Fluoranthene	ND	34.0	2.93	U
129-00-0	Pyrene	ND	34.0	2.81	U
85-68-7	Butylbenzylphthalate	ND	34.0	6.88	U
56-55-3	Benz(a)anthracene	ND	34.0	1.97	U
218-01-9	Chrysene	ND	34.0	2.38	U

Form 1
SemiVolatile Organics

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: L1625234-02	Date Collected	: 08/10/16 10:45
Client ID	: LDW-BA-PC-ENRMAT-GRAVSAND	Date Received	: 08/11/16
Sample Location	: LDW	Date Analyzed	: 09/10/16 00:19
Sample Matrix	: Sediment	Date Extracted	: 09/07/16
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: F809091626	Analyst	: ML
Sample Amount	: 30.31 g	Instrument ID	: BNA8
Extraction Method	: EPA 3570	GC Column	: ZB-SemiVolatiles
Extract Volume	: 2000 uL	%Solids	: 97
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
117-81-7	bis(2-Ethylhexyl)phthalate	ND	34.0	8.92	U
205-99-2	Benzo(b)fluoranthene	ND	34.0	2.98	U
207-08-9	Benzo(k)fluoranthene	ND	34.0	2.59	U
50-32-8	Benzo(a)pyrene	ND	34.0	2.46	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34.0	2.80	U
53-70-3	Dibenz(a,h)anthracene	ND	34.0	3.53	U
191-24-2	Benzo(g,h,i)perylene	ND	34.0	2.64	U

Form 1
SemiVolatile Organics

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: WG929407-1	Date Collected	: NA
Client ID	: WG929407-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 09/09/16 16:08
Sample Matrix	: SOIL	Date Extracted	: 09/07/16
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: F809091610	Analyst	: ML
Sample Amount	: 30 g	Instrument ID	: BNA8
Extraction Method	: EPA 3570	GC Column	: ZB-SemiVolatiles
Extract Volume	: 2000 uL	%Solids	: NA
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
108-95-2	Phenol	ND	33.3	3.17	U
106-46-7	1,4-Dichlorobenzene	ND	33.3	6.93	U
95-50-1	1,2-Dichlorobenzene	ND	33.3	7.27	U
100-51-6	Benzyl alcohol	ND	66.7	22.1	U
106-44-5	4-Methylphenol	ND	33.3	4.36	U
105-67-9	2,4-Dimethylphenol	ND	33.3	5.49	U
65-85-0	Benzoic acid	ND	2000	423.	U
120-82-1	1,2,4-Trichlorobenzene	ND	33.3	2.06	U
91-20-3	Naphthalene	ND	33.3	2.24	U
91-57-6	2-Methylnaphthalene	ND	33.3	2.62	U
131-11-3	Dimethylphthalate	ND	33.3	2.60	U
83-32-9	Acenaphthene	ND	33.3	3.33	U
132-64-9	Dibenzofuran	ND	33.3	2.49	U
86-73-7	Fluorene	ND	33.3	2.47	U
86-30-6	n-Nitrosodiphenylamine	ND	33.3	2.34	U
118-74-1	Hexachlorobenzene	ND	33.3	3.25	U
87-86-5	Pentachlorophenol	ND	200	59.9	U
85-01-8	Phenanthrene	ND	33.3	2.12	U
120-12-7	Anthracene	ND	33.3	1.70	U
206-44-0	Fluoranthene	ND	33.3	2.87	U
129-00-0	Pyrene	ND	33.3	2.75	U
85-68-7	Butylbenzylphthalate	ND	33.3	6.73	U
56-55-3	Benz(a)anthracene	ND	33.3	1.93	U
218-01-9	Chrysene	ND	33.3	2.33	U

Form 1
SemiVolatile Organics

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: WG929407-1	Date Collected	: NA
Client ID	: WG929407-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 09/09/16 16:08
Sample Matrix	: SOIL	Date Extracted	: 09/07/16
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: F809091610	Analyst	: ML
Sample Amount	: 30 g	Instrument ID	: BNA8
Extraction Method	: EPA 3570	GC Column	: ZB-SemiVolatiles
Extract Volume	: 2000 uL	%Solids	: NA
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
117-81-7	bis(2-Ethylhexyl)phthalate	ND	33.3	8.73	U
205-99-2	Benzo(b)fluoranthene	ND	33.3	2.92	U
207-08-9	Benzo(k)fluoranthene	ND	33.3	2.54	U
50-32-8	Benzo(a)pyrene	ND	33.3	2.41	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33.3	2.75	U
53-70-3	Dibenz(a,h)anthracene	ND	33.3	3.45	U
191-24-2	Benzo(g,h,i)perylene	ND	33.3	2.59	U

Form 1
SemiVolatile Organics

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: WG929407-4	Date Collected	: 08/10/16 10:30
Client ID	: LDW-BA-PC-ENRMAT-SANDDUP	Date Received	: 08/11/16
Sample Location	:	Date Analyzed	: 09/09/16 22:48
Sample Matrix	: SOIL	Date Extracted	: 09/07/16
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: F809091623	Analyst	: ML
Sample Amount	: 30.86 g	Instrument ID	: BNA8
Extraction Method	: EPA 3570	GC Column	: ZB-SemiVolatiles
Extract Volume	: 2000 uL	%Solids	: 96
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
108-95-2	Phenol	ND	33.8	3.21	U
106-46-7	1,4-Dichlorobenzene	ND	33.8	7.03	U
95-50-1	1,2-Dichlorobenzene	ND	33.8	7.37	U
100-51-6	Benzyl alcohol	ND	67.6	22.4	U
106-44-5	4-Methylphenol	ND	33.8	4.42	U
105-67-9	2,4-Dimethylphenol	ND	33.8	5.57	U
65-85-0	Benzoic acid	ND	2030	429.	U
120-82-1	1,2,4-Trichlorobenzene	ND	33.8	2.09	U
91-20-3	Naphthalene	ND	33.8	2.27	U
91-57-6	2-Methylnaphthalene	ND	33.8	2.66	U
131-11-3	Dimethylphthalate	ND	33.8	2.64	U
83-32-9	Acenaphthene	ND	33.8	3.38	U
132-64-9	Dibenzofuran	ND	33.8	2.53	U
86-73-7	Fluorene	ND	33.8	2.50	U
86-30-6	n-Nitrosodiphenylamine	ND	33.8	2.37	U
118-74-1	Hexachlorobenzene	ND	33.8	3.29	U
87-86-5	Pentachlorophenol	ND	203	60.8	U
85-01-8	Phenanthrene	ND	33.8	2.15	U
120-12-7	Anthracene	ND	33.8	1.72	U
206-44-0	Fluoranthene	ND	33.8	2.91	U
129-00-0	Pyrene	ND	33.8	2.79	U
85-68-7	Butylbenzylphthalate	ND	33.8	6.82	U
56-55-3	Benz(a)anthracene	ND	33.8	1.96	U
218-01-9	Chrysene	ND	33.8	2.36	U

Form 1
SemiVolatile Organics

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab ID	: WG929407-4	Date Collected	: 08/10/16 10:30
Client ID	: LDW-BA-PC-ENRMAT-SANDDUP	Date Received	: 08/11/16
Sample Location	:	Date Analyzed	: 09/09/16 22:48
Sample Matrix	: SOIL	Date Extracted	: 09/07/16
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: F809091623	Analyst	: ML
Sample Amount	: 30.86 g	Instrument ID	: BNA8
Extraction Method	: EPA 3570	GC Column	: ZB-SemiVolatiles
Extract Volume	: 2000 uL	%Solids	: 96
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
117-81-7	bis(2-Ethylhexyl)phthalate	ND	33.8	8.85	U
205-99-2	Benzo(b)fluoranthene	ND	33.8	2.96	U
207-08-9	Benzo(k)fluoranthene	ND	33.8	2.57	U
50-32-8	Benzo(a)pyrene	ND	33.8	2.44	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33.8	2.78	U
53-70-3	Dibenz(a,h)anthracene	ND	33.8	3.50	U
191-24-2	Benzo(g,h,i)perylene	ND	33.8	2.62	U

Form 2
Surrogate Recovery
SEMIVOLATILES

Client: Floyd Snider Inc
Project Name: LDW/AC PILOT STUDY

Lab Number: L1625234
Project Number: LY15160310
Matrix: Sediment

CLIENT ID (LAB SAMPLE NO.)	S1 (NBZ)	S2 (FBP)	S3 (2FP)	S4 (TBP)	S5 (TPH)	S6 (PHL)	TOT OUT
LDW-BA-PC-ENRMAT-SANDDUP	73	76	68	95	107	72	0
WG929407-3LCSD	66	72	63	105	104	66	0
LDW-BA-PC-ENRMAT-GRAVSAN (L1625234-02)	70	76	62	96	101	73	0
LDW-BA-PC-ENRMAT-SAND (L1625234-01)	67	73	62	88	108	68	0
WG929407-2LCS	70	78	64	103	100	72	0
WG929407-1BLANK	58	61	55	78	100	60	0
LDW-BA-PC-ENRMAT-SANDMS	63	74	59	103	101	64	0
LDW-BA-PC-ENRMAT-GRAVSAN	52	68	48	99	95	54	0
LDW-BA-PC-ENRMAT-SANDMSD	72	81	63	113	102	72	0
LDW-BA-PC-ENRMAT-GRAVSAN	44	58	37	101	101	45	0

	QC LIMITS
NBZ = NITROBENZENE-D5	(30-130)
FBP = 2-FLUOROBIPHENYL	(30-130)
2FP = 2-FLUOROPHENOL	(30-130)
TBP = 2,4,6-TRIBROMOPHENOL)	(30-130)
TPH = TERPHENYL-D14)	(30-130)
PHL = PHENOL-D5)	(30-130)

* Values outside of QC limits

FORM II A2-SVOC-8270

Lab Duplicates
Form 3

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-SAND	Matrix	: SOIL
Lab Sample ID	: L1625234-01	Analysis Date	: 09/09/16 22:17
Lab File ID	: F809091622	DUP File ID	: F809091623
Dup Sample ID	: WG929407-4	DUP Analysis Date	: 09/09/16 22:48

Parameter	Sample Concentration (ug/kg)	Duplicate Concentration (ug/kg)	RPD	RPD Limit
Phenol	ND	ND	NC	30
1,4-Dichlorobenzene	ND	ND	NC	30
1,2-Dichlorobenzene	ND	ND	NC	30
Benzyl alcohol	ND	ND	NC	30
4-Methylphenol	ND	ND	NC	30
2,4-Dimethylphenol	ND	ND	NC	30
Benzoic acid	ND	ND	NC	30
1,2,4-Trichlorobenzene	ND	ND	NC	30
Naphthalene	ND	ND	NC	30
2-Methylnaphthalene	ND	ND	NC	30
Dimethylphthalate	ND	ND	NC	30
Acenaphthene	ND	ND	NC	30
Dibenzofuran	ND	ND	NC	30
Fluorene	ND	ND	NC	30
n-Nitrosodiphenylamine	ND	ND	NC	30
Hexachlorobenzene	ND	ND	NC	30
Pentachlorophenol	ND	ND	NC	30
Phenanthrene	ND	ND	NC	30
Anthracene	ND	ND	NC	30
Fluoranthene	ND	ND	NC	30
Pyrene	ND	ND	NC	30
Butylbenzylphthalate	ND	ND	NC	30
Benz(a)anthracene	ND	ND	NC	30
Chrysene	ND	ND	NC	30
bis(2-Ethylhexyl)phthalate	ND	ND	NC	30
Benzo(b)fluoranthene	ND	ND	NC	30
Benzo(k)fluoranthene	ND	ND	NC	30

Lab Duplicates
Form 3

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-SAND	Matrix	: SOIL
Lab Sample ID	: L1625234-01	Analysis Date	: 09/09/16 22:17
Lab File ID	: F809091622	DUP File ID	: F809091623
Dup Sample ID	: WG929407-4	DUP Analysis Date	: 09/09/16 22:48

Parameter	Sample Concentration (ug/kg)	Duplicate Concentration (ug/kg)	RPD	RPD Limit
Benzo(a)pyrene	ND	ND	NC	30
Indeno(1,2,3-cd)pyrene	ND	ND	NC	30
Dibenz(a,h)anthracene	ND	ND	NC	30
Benzo(g,h,i)perylene	ND	ND	NC	30

Laboratory Control Sample
Form 3

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Matrix	: SOIL		
LCS Sample ID	: WG929407-2 Analysis Date : 09/09/16 16:39	File ID	: F809091611
LCSD Sample ID	: WG929407-3 Analysis Date : 09/09/16 17:10	File ID	: F809091612

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R		True (ug/kg)	Found (ug/kg)	%R		RPD	Recovery Limits	RPD Limit
n-Nitrosodimethylamine	667	502.	75		667	494.	74		1	40-140	30
Pyridine	533	434.	81		533	430.	81		0	40-140	30
Benzaldehyde	667	390.	58		667	347.	52		11	40-140	30
Aniline	667	468.	70		667	427.	64		9	40-140	30
Bis(2-chloroethyl)ether	667	458.	69		667	429.	64		8	40-140	30
Phenol	667	498.	75		667	461.	69		8	30-130	30
2-Chlorophenol	667	464.	70		667	443.	66		6	30-130	30
1,3-Dichlorobenzene	667	438.	66		667	440.	66		0	40-140	30
1,4-Dichlorobenzene	667	434.	65		667	442.	66		2	40-140	30
1,2-Dichlorobenzene	667	444.	67		667	446.	67		0	40-140	30
Bis(2-chloroisopropyl)ether	667	459.	69		667	423.	64		8	40-140	30
2-Methylphenol	667	496.	74		667	456.	68		8	30-130	30
Acetophenone	667	454.	68		667	415.	62		9	40-140	30
Hexachloroethane	667	429.	64		667	427.	64		0	40-140	30
N-Nitroso-di-n-propylamine	667	520.	78		667	466.	70		11	40-140	30
4-Methylphenol	667	516.	77		667	478.	72		7	30-130	30
Nitrobenzene	667	477.	72		667	446.	67		7	40-140	30
Isophorone	667	575.	86		667	527.	79		8	40-140	30
2-Nitrophenol	667	508.	76		667	469.	70		8	30-130	30
2,4-Dimethylphenol	667	462.	69		667	412.	62		11	30-130	30
Benzoic Acid	3330	652.	20	Q	3330	688.	21	Q	5	40-140	30
Bis(2-chloroethoxy)methane	667	530.	79		667	477.	72		9	40-140	30
2,4-Dichlorophenol	667	536.	80		667	494.	74		8	30-130	30
1,2,4-Trichlorobenzene	667	463.	70		667	442.	66		6	40-140	30
Naphthalene	667	472.	71		667	443.	66		7	40-140	30
4-Chloroaniline	667	541.	81		667	497.	74		9	40-140	30
Hexachlorobutadiene	667	463.	69		667	434.	65		6	40-140	30
Caprolactam	667	680.	102		667	738.	111		8	40-140	30

Laboratory Control Sample
Form 3

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Matrix	: SOIL		
LCS Sample ID	: WG929407-2 Analysis Date : 09/09/16 16:39	File ID	: F809091611
LCSD Sample ID	: WG929407-3 Analysis Date : 09/09/16 17:10	File ID	: F809091612

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
P-Chloro-M-Cresol	667	582.	87	667	571.	86	1	30-130	30
2-Methylnaphthalene	667	510.	76	667	474.	71	7	40-140	30
1,2,4,5-Tetrachlorobenzene	667	519.	78	667	478.	72	8	40-140	30
Hexachlorocyclopentadiene	667	417.	62	667	354.	53	16	40-140	30
2,4,6-Trichlorophenol	667	572.	86	667	542.	81	6	30-130	30
2,4,5-Trichlorophenol	667	624.	94	667	639.	96	2	30-130	30
Biphenyl	667	497.	74	667	471.	71	4	40-140	30
2-Chloronaphthalene	667	535.	80	667	492.	74	8	40-140	30
2-Nitroaniline	667	609.	91	667	602.	90	1	40-140	30
Acenaphthylene	667	553.	83	667	531.	80	4	40-140	30
Dimethylphthalate	667	625.	94	667	624.	94	0	40-140	30
2,6-Dinitrotoluene	667	636.	95	667	647.	97	2	40-140	30
Acenaphthene	667	556.	83	667	536.	80	4	40-140	30
3-Nitroaniline	667	622.	93	667	650.	97	4	40-140	30
2,4-Dinitrophenol	667	520.	78	667	529.	79	1	30-130	30
Dibenzofuran	667	586.	88	667	565.	85	3	40-140	30
2,3,4,6-Tetrachlorophenol	667	675.	101	667	703.	105	4	30-130	30
2,4-Dinitrotoluene	667	650.	97	667	706.	106	9	40-140	30
4-Nitrophenol	667	619.	93	667	690.	104	11	30-130	30
Fluorene	667	591.	89	667	588.	88	1	40-140	30
4-Chlorophenyl phenyl ether	667	599.	90	667	592.	89	1	40-140	30
Diethylphthalate	667	617.	92	667	665.	100	8	40-140	30
4-Nitroaniline	667	674.	101	667	706.	106	5	40-140	30
4,6-Dinitro-2-Methylphenol	667	620.	93	667	660.	99	6	30-130	30
Azobenzene	667	619.	93	667	632.	95	2	40-140	30
NitrosoDiPhenylAmine(NDPA)/DPA	667	661.	99	667	683.	102	3	40-140	30
4-Bromophenyl phenyl ether	667	626.	94	667	637.	96	2	40-140	30
Hexachlorobenzene	667	627.	94	667	644.	96	2	40-140	30

Laboratory Control Sample
Form 3

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Matrix	: SOIL		
LCS Sample ID	: WG929407-2 Analysis Date : 09/09/16 16:39	File ID	: F809091611
LCSD Sample ID	: WG929407-3 Analysis Date : 09/09/16 17:10	File ID	: F809091612

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Atrazine	667	565.	85	667	588.	88	3	40-140	30
Pentachlorophenol	667	553.	83	667	665.	100	19	30-130	30
Phenanthrene	667	642.	96	667	643.	96	0	40-140	30
Anthracene	667	614.	92	667	636.	95	3	40-140	30
Carbazole	667	659.	99	667	707.	106	7	40-140	30
Di-n-butylphthalate	667	672.	101	667	710.	106	5	40-140	30
Fluoranthene	667	646.	97	667	679.	102	5	40-140	30
Benzidine	1670	801.	48	1670	859.	52	8	40-140	30
Pyrene	667	653.	98	667	688.	103	5	40-140	30
Butylbenzylphthalate	667	701.	105	667	751.	113	7	40-140	30
3,3'-Dichlorobenzidine	667	583.	87	667	652.	98	12	40-140	30
Benz(a)anthracene	667	644.	97	667	698.	105	8	40-140	30
Chrysene	667	689.	103	667	712.	107	4	40-140	30
Bis(2-Ethylhexyl)phthalate	667	710.	106	667	756.	113	6	40-140	30
Di-n-octylphthalate	667	694.	104	667	707.	106	2	40-140	30
Benzo(b)fluoranthene	667	647.	97	667	691.	104	7	40-140	30
Benzo(k)fluoranthene	667	719.	108	667	720.	108	0	40-140	30
Benzo(a)pyrene	667	660.	99	667	679.	102	3	40-140	30
Indeno(1,2,3-cd)Pyrene	667	663.	99	667	697.	104	5	40-140	30
Dibenz(a,h)anthracene	667	702.	105	667	733.	110	5	40-140	30
Benzo(ghi)perylene	667	682.	102	667	702.	105	3	40-140	30

Matrix Spike
Form 3

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-SAND	Matrix	: SOIL
Lab Sample ID	: L1625234-01	Analysis Date	: 09/09/16 22:17
Matrix Spike	: WG929407-5	MS Analysis Date	: 09/09/16 23:18
Matrix Spike Dup	: WG929407-6	MSD Analysis Date	: 09/09/16 23:48

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
n-Nitrosodimethylamine	ND	693	492.	71	694	521.	75	6	40-140	30
Pyridine	ND	554	366.	66	555	378.	68	3	40-140	30
Benzaldehyde	ND	693	341.	49	694	389.	56	13	40-140	30
Aniline	ND	693	409.	59	694	468.	68	13	40-140	30
Bis(2-chloroethyl)ether	ND	693	427.	62	694	486.	70	13	40-140	30
Phenol	ND	693	463.	67	694	520.	75	12	30-130	30
2-Chlorophenol	ND	693	438.	63	694	487.	70	11	30-130	30
1,3-Dichlorobenzene	ND	693	436.	63	694	461.	67	6	40-140	30
1,4-Dichlorobenzene	ND	693	434.	63	694	464.	67	7	40-140	30
1,2-Dichlorobenzene	ND	693	437.	63	694	470.	68	7	40-140	30
Bis(2-chloroisopropyl)ether	ND	693	431.	62	694	494.	71	14	40-140	30
2-Methylphenol	ND	693	460.	66	694	518.	75	12	30-130	30
Acetophenone	ND	693	425.	61	694	484.	70	13	40-140	30
Hexachloroethane	ND	693	420.	61	694	450.	65	7	40-140	30
N-Nitroso-di-n-propylamine	ND	693	494.	71	694	559.	81	12	40-140	30
4-Methylphenol	ND	693	480.	69	694	535.	77	11	30-130	30
Nitrobenzene	ND	693	452.	65	694	519.	75	14	40-140	30
Isophorone	ND	693	574.	83	694	633.	91	10	40-140	30
2-Nitrophenol	ND	693	480.	69	694	556.	80	15	30-130	30
2,4-Dimethylphenol	ND	693	397.	57	694	447.	65	12	30-130	30
Benzoic Acid	ND	3460	1960J	57	3470	2260	65	14	40-140	30
Bis(2-chloroethoxy)methane	ND	693	512.	74	694	582.	84	13	40-140	30
2,4-Dichlorophenol	ND	693	522.	75	694	577.	83	10	30-130	30
1,2,4-Trichlorobenzene	ND	693	443.	64	694	496.	72	11	40-140	30

Matrix Spike
Form 3

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-SAND	Matrix	: SOIL
Lab Sample ID	: L1625234-01	Analysis Date	: 09/09/16 22:17
Matrix Spike	: WG929407-5	MS Analysis Date	: 09/09/16 23:18
Matrix Spike Dup	: WG929407-6	MSD Analysis Date	: 09/09/16 23:48

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Naphthalene	ND	693	448.	65	694	504.	73	12	40-140	30
4-Chloroaniline	ND	693	516.	75	694	582.	84	12	40-140	30
Hexachlorobutadiene	ND	693	423.	61	694	488.	70	14	40-140	30
Caprolactam	ND	693	729.	105	694	795.	115	9	40-140	30
P-Chloro-M-Cresol	ND	693	606.	88	694	657.	95	8	30-130	30
2-Methylnaphthalene	ND	693	502.	73	694	557.	80	10	40-140	30
1,2,4,5-Tetrachlorobenzene	ND	693	517.	75	694	568.	82	9	40-140	30
Hexachlorocyclopentadiene	ND	693	393.	57	694	486.	70	21	40-140	30
2,4,6-Trichlorophenol	ND	693	598.	86	694	654.	94	9	30-130	30
2,4,5-Trichlorophenol	ND	693	664.	96	694	717.	103	8	30-130	30
Biphenyl	ND	693	511.	74	694	559.	81	9	40-140	30
2-Chloronaphthalene	ND	693	539.	78	694	585.	84	8	40-140	30
2-Nitroaniline	ND	693	648.	94	694	703.	101	8	40-140	30
Acenaphthylene	ND	693	579.	84	694	624.	90	7	40-140	30
Dimethylphthalate	ND	693	677.	98	694	712.	103	5	40-140	30
2,6-Dinitrotoluene	ND	693	684.	99	694	743.	107	8	40-140	30
Acenaphthene	ND	693	583.	84	694	624.	90	7	40-140	30
3-Nitroaniline	ND	693	666.	96	694	712.	103	7	40-140	30
2,4-Dinitrophenol	ND	693	615.	89	694	678.	98	10	30-130	30
Dibenzofuran	ND	693	614.	89	694	654.	94	6	40-140	30
2,3,4,6-Tetrachlorophenol	ND	693	741.	107	694	801.	115	8	30-130	30
2,4-Dinitrotoluene	ND	693	712.	103	694	744.	107	4	40-140	30
4-Nitrophenol	ND	693	710.	103	694	695.	100	2	30-130	30
Fluorene	ND	693	630.	91	694	672.	97	6	40-140	30

Matrix Spike
Form 3

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-SAND	Matrix	: SOIL
Lab Sample ID	: L1625234-01	Analysis Date	: 09/09/16 22:17
Matrix Spike	: WG929407-5	MS Analysis Date	: 09/09/16 23:18
Matrix Spike Dup	: WG929407-6	MSD Analysis Date	: 09/09/16 23:48

		Matrix Spike Sample				Matrix Spike Duplicate							
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		RPD		Recovery Limits	RPD Limit
4-Chlorophenyl phenyl ether	ND	693	633.	91		694	676.	98		7		40-140	30
Diethylphthalate	ND	693	705.	102		694	739.	107		5		40-140	30
4-Nitroaniline	ND	693	718.	104		694	763.	110		6		40-140	30
4,6-Dinitro-2-Methylphenol	ND	693	682.	99		694	737.	106		8		30-130	30
Azobenzene	ND	693	675.	98		694	738.	106		9		40-140	30
NitrosoDiPhenylAmine(NDPA)/DPA	ND	693	699.	101		694	769.	111		10		40-140	30
4-Bromophenyl phenyl ether	ND	693	662.	96		694	727.	105		9		40-140	30
Hexachlorobenzene	ND	693	671.	97		694	724.	104		8		40-140	30
Atrazine	ND	693	616.	89		694	666.	96		8		40-140	30
Pentachlorophenol	ND	693	670.	97		694	728.	105		8		30-130	30
Phenanthrene	ND	693	678.	98		694	727.	105		7		40-140	30
Anthracene	ND	693	667.	96		694	700.	101		5		40-140	30
Carbazole	ND	693	725.	105		694	739.	107		2		40-140	30
Di-n-butylphthalate	ND	693	728.	105		694	768.	111		5		40-140	30
Fluoranthene	ND	693	697.	101		694	736.	106		5		40-140	30
Benzidine	ND	1730	261.J	15	Q	1730	403.J	23	Q	43	Q	40-140	30
Pyrene	ND	693	710.	103		694	733.	106		3		40-140	30
Butylbenzylphthalate	ND	693	757.	109		694	797.	115		5		40-140	30
3,3'-Dichlorobenzidine	ND	693	601.	87		694	630.	91		5		40-140	30
Benz(a)anthracene	ND	693	704.	102		694	724.	104		3		40-140	30
Chrysene	ND	693	735.	106		694	754.	109		3		40-140	30
Bis(2-Ethylhexyl)phthalate	ND	693	763.	110		694	788.	114		3		40-140	30
Di-n-octylphthalate	ND	693	788.	114		694	778.	112		1		40-140	30
Benzo(b)fluoranthene	ND	693	713.	103		694	714.	103		0		40-140	30

Matrix Spike
Form 3

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-SAND	Matrix	: SOIL
Lab Sample ID	: L1625234-01	Analysis Date	: 09/09/16 22:17
Matrix Spike	: WG929407-5	MS Analysis Date	: 09/09/16 23:18
Matrix Spike Dup	: WG929407-6	MSD Analysis Date	: 09/09/16 23:48

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Benzo(k)fluoranthene	ND	693	809.	117	694	760.	110	6	40-140	30
Benzo(a)pyrene	ND	693	720.	104	694	719.	104	0	40-140	30
Indeno(1,2,3-cd)Pyrene	ND	693	738.	107	694	742.	107	1	40-140	30
Dibenz(a,h)anthracene	ND	693	794.	115	694	777.	112	2	40-140	30
Benzo(ghi)perylene	ND	693	763.	110	694	720.	104	6	40-140	30

Matrix Spike
Form 3

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-GRAVSAND	Matrix	: SOIL
Lab Sample ID	: L1625234-02	Analysis Date	: 09/10/16 00:19
Matrix Spike	: WG929407-7	MS Analysis Date	: 09/10/16 00:49
Matrix Spike Dup	: WG929407-8	MSD Analysis Date	: 09/10/16 01:19

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		RPD	Recovery Limits	RPD Limit
n-Nitrosodimethylamine	ND	676	389.	58		678	304.	45		25	40-140	30
Pyridine	ND	541	307.	57		543	253.	47		19	40-140	30
Benzaldehyde	ND	676	234.	35	Q	678	183.	27	Q	24	40-140	30
Aniline	ND	676	335.	50		678	283.	42		17	40-140	30
Bis(2-chloroethyl)ether	ND	676	340.	50		678	275.	41		21	40-140	30
Phenol	ND	676	389.	58		678	322.	48		19	30-130	30
2-Chlorophenol	ND	676	346.	51		678	282.	42		20	30-130	30
1,3-Dichlorobenzene	ND	676	340.	50		678	269.	40	Q	23	40-140	30
1,4-Dichlorobenzene	ND	676	341.	50		678	272.	40		23	40-140	30
1,2-Dichlorobenzene	ND	676	343.	51		678	272.	40		23	40-140	30
Bis(2-chloroisopropyl)ether	ND	676	349.	52		678	290.	43		18	40-140	30
2-Methylphenol	ND	676	390.	58		678	326.	48		18	30-130	30
Acetophenone	ND	676	339.	50		678	303.	45		11	40-140	30
Hexachloroethane	ND	676	327.	48		678	261.	39	Q	22	40-140	30
N-Nitroso-di-n-propylamine	ND	676	431.	64		678	363.	54		17	40-140	30
4-Methylphenol	ND	676	417.	62		678	348.	51		18	30-130	30
Nitrobenzene	ND	676	370.	55		678	307.	45		19	40-140	30
Isophorone	ND	676	512.	76		678	427.	63		18	40-140	30
2-Nitrophenol	ND	676	399.	59		678	337.	50		17	30-130	30
2,4-Dimethylphenol	ND	676	346.	51		678	275.	41		23	30-130	30
Benzoic Acid	ND	3380	2010J	59		3390	1960J	58		3	40-140	30
Bis(2-chloroethoxy)methane	ND	676	448.	66		678	374.	55		18	40-140	30
2,4-Dichlorophenol	ND	676	452.	67		678	391.	58		14	30-130	30
1,2,4-Trichlorobenzene	ND	676	359.	53		678	296.	44		19	40-140	30

Matrix Spike
Form 3

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-GRAVSAND	Matrix	: SOIL
Lab Sample ID	: L1625234-02	Analysis Date	: 09/10/16 00:19
Matrix Spike	: WG929407-7	MS Analysis Date	: 09/10/16 00:49
Matrix Spike Dup	: WG929407-8	MSD Analysis Date	: 09/10/16 01:19

		Matrix Spike Sample			Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		RPD	Recovery Limits	RPD Limit
Naphthalene	ND	676	372.	55	678	310.	46		18	40-140	30
4-Chloroaniline	ND	676	463.	69	678	402.	59		14	40-140	30
Hexachlorobutadiene	ND	676	338.	50	678	277.	41		20	40-140	30
Caprolactam	ND	676	694.	103	678	723.	107		4	40-140	30
P-Chloro-M-Cresol	ND	676	565.	84	678	509.	75		10	30-130	30
2-Methylnaphthalene	ND	676	442.	65	678	367.	54		19	40-140	30
1,2,4,5-Tetrachlorobenzene	ND	676	460.	68	678	381.	56		19	40-140	30
Hexachlorocyclopentadiene	ND	676	315.	47	678	244.	36	Q	25	40-140	30
2,4,6-Trichlorophenol	ND	676	558.	83	678	480.	71		15	30-130	30
2,4,5-Trichlorophenol	ND	676	608.	90	678	593.	87		2	30-130	30
Biphenyl	ND	676	447.	66	678	398.	59		12	40-140	30
2-Chloronaphthalene	ND	676	487.	72	678	412.	61		17	40-140	30
2-Nitroaniline	ND	676	614.	91	678	587.	87		4	40-140	30
Acenaphthylene	ND	676	531.	79	678	467.	69		13	40-140	30
Dimethylphthalate	ND	676	630.	93	678	603.	89		4	40-140	30
2,6-Dinitrotoluene	ND	676	643.	95	678	630.	93		2	40-140	30
Acenaphthene	ND	676	538.	80	678	475.	70		12	40-140	30
3-Nitroaniline	ND	676	637.	94	678	624.	92		2	40-140	30
2,4-Dinitrophenol	ND	676	566.	84	678	622.	92		9	30-130	30
Dibenzofuran	ND	676	566.	84	678	519.	77		9	40-140	30
2,3,4,6-Tetrachlorophenol	ND	676	708.	105	678	700.	103		1	30-130	30
2,4-Dinitrotoluene	ND	676	701.	104	678	700.	103		0	40-140	30
4-Nitrophenol	ND	676	681.	101	678	740.	109		8	30-130	30
Fluorene	ND	676	589.	87	678	561.	83		5	40-140	30

Matrix Spike
Form 3

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-GRAVSAND	Matrix	: SOIL
Lab Sample ID	: L1625234-02	Analysis Date	: 09/10/16 00:19
Matrix Spike	: WG929407-7	MS Analysis Date	: 09/10/16 00:49
Matrix Spike Dup	: WG929407-8	MSD Analysis Date	: 09/10/16 01:19

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		RPD	Recovery Limits	RPD Limit
4-Chlorophenyl phenyl ether	ND	676	593.	88		678	557.	82		6	40-140	30
Diethylphthalate	ND	676	669.	99		678	661.	97		1	40-140	30
4-Nitroaniline	ND	676	688.	102		678	687.	101		0	40-140	30
4,6-Dinitro-2-Methylphenol	ND	676	644.	95		678	698.	103		8	30-130	30
Azobenzene	ND	676	630.	93		678	608.	90		4	40-140	30
NitrosoDiPhenylAmine(NDPA)/DPA	ND	676	672.	99		678	675.	100		0	40-140	30
4-Bromophenyl phenyl ether	ND	676	620.	92		678	622.	92		0	40-140	30
Hexachlorobenzene	ND	676	632.	94		678	628.	93		1	40-140	30
Atrazine	ND	676	532.	79		678	598.	88		12	40-140	30
Pentachlorophenol	ND	676	659.	97		678	725.	107		10	30-130	30
Phenanthrene	ND	676	640.	95		678	634.	93		1	40-140	30
Anthracene	ND	676	616.	91		678	649.	96		5	40-140	30
Carbazole	ND	676	692.	102		678	714.	105		3	40-140	30
Di-n-butylphthalate	ND	676	681.	101		678	732.	108		7	40-140	30
Fluoranthene	ND	676	655.	97		678	700.	103		7	40-140	30
Benzidine	ND	1690	410.J	24	Q	1700	480.J	28	Q	16	40-140	30
Pyrene	ND	676	666.	99		678	706.	104		6	40-140	30
Butylbenzylphthalate	ND	676	718.	106		678	766.	113		6	40-140	30
3,3'-Dichlorobenzidine	ND	676	561.	83		678	632.	93		12	40-140	30
Benz(a)anthracene	ND	676	667.	99		678	698.	103		5	40-140	30
Chrysene	ND	676	696.	103		678	706.	104		1	40-140	30
Bis(2-Ethylhexyl)phthalate	ND	676	727.	108		678	776.	114		7	40-140	30
Di-n-octylphthalate	ND	676	715.	106		678	762.	112		6	40-140	30
Benzo(b)fluoranthene	ND	676	656.	97		678	695.	102		6	40-140	30

Matrix Spike
Form 3

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Client Sample ID	: LDW-BA-PC-ENRMAT-GRAVSAND	Matrix	: SOIL
Lab Sample ID	: L1625234-02	Analysis Date	: 09/10/16 00:19
Matrix Spike	: WG929407-7	MS Analysis Date	: 09/10/16 00:49
Matrix Spike Dup	: WG929407-8	MSD Analysis Date	: 09/10/16 01:19

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Benzo(k)fluoranthene	ND	676	706.	104	678	712.	105	1	40-140	30
Benzo(a)pyrene	ND	676	665.	98	678	691.	102	4	40-140	30
Indeno(1,2,3-cd)Pyrene	ND	676	675.	100	678	702.	103	4	40-140	30
Dibenz(a,h)anthracene	ND	676	705.	104	678	734.	108	4	40-140	30
Benzo(ghi)perylene	ND	676	658.	97	678	686.	101	4	40-140	30

Method Blank Summary
Form 4

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Lab Sample ID	: WG929407-1	Lab File ID	: F809091610
Instrument ID	: BNA8	Extraction Date	: 09/07/16
Matrix	: SOIL	Analysis Date	: 09/09/16 16:08
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG929407-2LCS	WG929407-2	09/09/16 16:39
WG929407-3LCSD	WG929407-3	09/09/16 17:10
LDW-BA-PC-ENRMAT-SAND	L1625234-01	09/09/16 22:17
LDW-BA-PC-ENRMAT-SANDDUP	WG929407-4	09/09/16 22:48
LDW-BA-PC-ENRMAT-SANDMS	WG929407-5	09/09/16 23:18
LDW-BA-PC-ENRMAT-SANDMSD	WG929407-6	09/09/16 23:48
LDW-BA-PC-ENRMAT-GRAVSAND	L1625234-02	09/10/16 00:19
LDW-BA-PC-ENRMAT-GRAVSANDMS	WG929407-7	09/10/16 00:49
LDW-BA-PC-ENRMAT-GRAVSANDMSD	WG929407-8	09/10/16 01:19

Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)
Form 5

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: BNA8	Analysis Date	: 09/08/16 19:02
Tune Standard	: R898872-1	Tune File ID	: F809081602_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	24.6
68	Less than 2.0% of mass 69	0.5 (1.6)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	48.6
197	Less than 2.0% of mass 198	0.2
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	22.4
365	Greater than 1.0% of mass 198	2.2
441	Present, but less than 24% of mass 442	14.2
442	Base Peak, or >50% of mass 198	68.3
443	15.0 - 24.0% of mass 442	13.4 (19.6)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
std 0.5	R898872-2	F809081603	09/08/16 19:35
std 1	R898872-6	F809081604	09/08/16 20:09
std 2	R898872-7	F809081605	09/08/16 20:42
std 5	R898872-8	F809081606	09/08/16 21:16
std 10	R898872-3	F809081607	09/08/16 21:50
std 15	R898872-9	F809081608	09/08/16 22:23
std 25	R898872-10	F809081609	09/08/16 22:56
std 50	R898872-11	F809081610	09/08/16 23:29
std 0.5a	R898872-4	F809081611	09/09/16 00:02
std 1a	R898872-12	F809081612	09/09/16 00:35
std 2a	R898872-13	F809081613	09/09/16 01:08
std 5a	R898872-14	F809081614	09/09/16 01:40
std 10a	R898872-5	F809081615	09/09/16 02:13
std 15a	R898872-15	F809081616	09/09/16 02:45
std 25a	R898872-17	F809081617	09/09/16 03:18
ICV Quant Report	R898872-16	F809081618	09/09/16 03:51
ICV Quant Report	R898872-18	F809081619	09/09/16 04:24
ICV Quant Report	R898872-19	F809081620	09/09/16 04:56
ICV Quant Report	R898872-20	F809081621	09/09/16 05:29

Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)
Form 5

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: BNA8	Analysis Date	: 09/09/16 11:09
Tune Standard	: WG930519-1	Tune File ID	: F809091601_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	22
68	Less than 2.0% of mass 69	0.5 (1.7)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	45
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	24.2
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than 24% of mass 442	14.2
442	Base Peak, or >50% of mass 198	85.3
443	15.0 - 24.0% of mass 442	16.5 (19.3)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG930519-3CCAL	WG930519-3	F809091602	09/09/16 11:41
WG930519-4CCAL	WG930519-4	F809091603	09/09/16 12:16
WG929407-1BLANK	WG929407-1	F809091610	09/09/16 16:08
WG929407-2LCS	WG929407-2	F809091611	09/09/16 16:39
WG929407-3LCSD	WG929407-3	F809091612	09/09/16 17:10

Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)
Form 5

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: BNA8	Analysis Date	: 09/09/16 20:46
Tune Standard	: WG930519-5	Tune File ID	: F809091619_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	23.1
68	Less than 2.0% of mass 69	0.5 (1.7)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	45.8
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	23.9
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than 24% of mass 442	14.2
442	Base Peak, or >50% of mass 198	82.5
443	15.0 - 24.0% of mass 442	15.9 (19.3)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG930519-7CCAL	WG930519-7	F809091620	09/09/16 21:16
WG930519-8CCAL	WG930519-8	F809091621	09/09/16 21:47
LDW-BA-PC-ENRMAT-SAND	L1625234-01	F809091622	09/09/16 22:17
WG929407-4DUP	WG929407-4	F809091623	09/09/16 22:48
WG929407-5MS	WG929407-5	F809091624	09/09/16 23:18
WG929407-6MSD	WG929407-6	F809091625	09/09/16 23:48
LDW-BA-PC-ENRMAT-GRAVSAND	L1625234-02	F809091626	09/10/16 00:19
WG929407-7MS	WG929407-7	F809091627	09/10/16 00:49
WG929407-8MSD	WG929407-8	F809091628	09/10/16 01:19

Initial Calibration Summary
Form 6

Client	**: Floyd Snider Inc**	**Lab Number**	**: L1625234**
Project Name	**: LDW/AC PILOT STUDY**	**Project Number**	**: LY15160310**
Instrument ID	**: BNA8**	**Ical Ref**	**: ICAL12858**
Calibration dates	**: 09/08/16 19:35 09/09/16 03:18**		

Calibration Files

0.5 =F809081603.D 1 =F809081604.D 2 =F809081605.D 5 =F809081606.D 10 =F809081607.D

15 =F809081608.D 25 =F809081609.D 50 =F809081610.D 0.5a=F809081611.D 1.0a=F809081612.D

2.0a=F809081613.D 5.0a=F809081614.D 10a =F809081615.D 15a =F809081616.D 25a =F809081617.D

		Compound	0.5	1	2	5	10	15	25	50	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
2)	T	N-Nitrosodimethylamine	0.632	0.617	0.620	0.592	0.617	0.603	0.586	0.535	0.601	5.07
3)	t	Pyridine	1.291	1.225	1.207	1.133	1.154	1.129	1.130	1.105	1.172	5.42
4)	S	2-Fluorophenol	1.308	1.254	1.229	1.198	1.205	1.205	1.150	1.059	1.201	6.13
5)	T	Benzaldehyde	0.911	0.968	0.955	0.962	0.967	0.921	0.879		0.938	3.65
6)	T	Aniline	1.928	1.818	1.810	1.741	1.761	1.745	1.659	1.658	1.765	5.02
7)	T	bis(2-Chloroethyl)ether	0.860	0.806	0.791	0.755	0.741	0.728	0.685	0.627	0.749	9.70
8)	S	Phenol-d5	1.567	1.496	1.497	1.449	1.468	1.456	1.396	1.308	1.455	5.30
9)	MC	Phenol	1.657	1.572	1.564	1.506	1.489	1.469	1.384	1.285	1.491	7.78#
10)	M	2-Chlorophenol	1.474	1.398	1.381	1.343	1.359	1.356	1.294	1.205	1.351	5.79
11)	T	1,3-Dichlorobenzene	1.681	1.571	1.555	1.495	1.491	1.483	1.388	1.263	1.491	8.37
12)	MC	1,4-Dichlorobenzene	1.688	1.585	1.558	1.480	1.471	1.464	1.379	1.241	1.483	9.11#
13)	T	1,2-Dichlorobenzene	1.602	1.499	1.479	1.417	1.412	1.399	1.319	1.148	1.409	9.55
14)	T	Benzyl alcohol	0.844	0.816	0.795	0.799	0.823	0.814	0.804	0.733	0.803	4.05
15)	T	bis(2-chloroisopropyl)eth	1.291	1.208	1.171	1.081	1.031	0.985	0.861	0.690	1.040	18.81
16)	T	2-Methylphenol	1.190	1.108	1.109	1.057	1.056	1.032	0.967	0.878	1.050	9.07
17)	T	Acetophenone	1.556	1.607	1.626	1.644	1.667	1.606	1.521		1.604	3.15
18)	T	Hexachloroethane	0.593	0.566	0.555	0.540	0.545	0.544	0.518	0.472	0.542	6.58
19)	MP	N-Nitroso-di-n-propylamin	0.805	0.761	0.761	0.732	0.732	0.726	0.697	0.650	0.733	6.29
20)	T	4-Methylphenol	1.268	1.203	1.190	1.138	1.118	1.095	1.052	1.008	1.134	7.48
21)	I	Naphthalene-d8	----------ISTD----------									
22)	S	Nitrobenzene-d5	0.312	0.294	0.300	0.291	0.294	0.294	0.285	0.265	0.292	4.54
23)	T	Nitrobenzene	0.317	0.304	0.302	0.290	0.291	0.290	0.274	0.253	0.290	6.73
24)	T	Isophorone	0.493	0.472	0.480	0.467	0.472	0.478	0.458	0.413	0.467	5.13
25)	TC	2-Nitrophenol	0.188	0.184	0.191	0.190	0.195	0.199	0.191	0.179	0.190	3.39#
26)	T	2,4-Dimethylphenol	0.336	0.320	0.316	0.304	0.298	0.298	0.280	0.260	0.302	7.91
27)	T	Benzoic acid				0.020	0.051	0.090	0.129	0.166	*L	0.9932
28)	T	bis(2-Chloroethoxy)methan	0.374	0.348	0.348	0.339	0.335	0.338	0.321	0.300	0.338	6.33
29)	TC	2,4-Dichlorophenol	0.278	0.269	0.277	0.277	0.282	0.286	0.276	0.262	0.276	2.60#
30)	M	1,2,4-Trichlorobenzene	0.336	0.306	0.308	0.297	0.296	0.299	0.287	0.268	0.299	6.49
31)	T	Naphthalene	1.094	1.026	1.008	0.968	0.948	0.942	0.888	0.813	0.961	8.96
32)	T	2-Chloroaniline	0.529	0.510	0.501	0.489	0.486	0.487	0.461	0.413	0.485	7.24
33)	T	4-Chloroaniline	0.453	0.420	0.422	0.415	0.417	0.412	0.399	0.371	0.414	5.61
34)	TC	Hexachlorobutadiene	0.165	0.154	0.155	0.151	0.151	0.154	0.148	0.140	0.152	4.51#
35)	T	Caprolactam	0.064	0.075	0.086	0.099	0.101	0.101	0.100		0.089	16.67
36)	MC	4-Chloro-3-methylphenol	0.273	0.260	0.269	0.268	0.268	0.273	0.263	0.251	0.266	2.76#
37)	T	2-Methylnaphthalene	0.713	0.679	0.670	0.655	0.653	0.655	0.620	0.571	0.652	6.47
38)	I	Acenaphthene-d10	----------ISTD----------									
39)	T	1,2,4,5-Tetrachlorobenzen	0.572	0.541	0.532	0.510	0.522	0.520	0.508	0.463	0.521	5.97
40)	TP	Hexachlorocyclopentadiene	0.122	0.136	0.163	0.193	0.224	0.238	0.249	0.240	*L	0.9976

Initial Calibration Summary
Form 6

Client	**: Floyd Snider Inc**	**Lab Number**	**: L1625234**
Project Name	**: LDW/AC PILOT STUDY**	**Project Number**	**: LY15160310**
Instrument ID	**: BNA8**	**Ical Ref**	**: ICAL12858**
Calibration dates	**: 09/08/16 19:35 09/09/16 03:18**		

Calibration Files

0.5 =F809081603.D 1 =F809081604.D 2 =F809081605.D 5 =F809081606.D 10 =F809081607.D

15 =F809081608.D 25 =F809081609.D 50 =F809081610.D 0.5a=F809081611.D 1.0a=F809081612.D

2.0a=F809081613.D 5.0a=F809081614.D 10a =F809081615.D 15a =F809081616.D 25a =F809081617.D

		Compound	0.5	1	2	5	10	15	25	50	Avg	%RSD
41)	TC	2,4,6-Trichlorophenol	0.340	0.338	0.346	0.360	0.373	0.400	0.424	0.424	0.375	9.58#
42)	T	2,4,5-Trichlorophenol	0.353	0.328	0.344	0.341	0.340	0.341	0.340	0.283	0.334	6.51
43)	S	2-Fluorobiphenyl	1.418	1.317	1.295	1.257	1.255	1.237	1.216	1.097	1.262	7.24
44)	T	Biphenyl	1.427	1.484	1.480	1.475	1.510	1.413	1.313		1.443	4.63
45)	T	2-Chloronaphthalene	1.255	1.181	1.160	1.117	1.128	1.116	1.087	0.988	1.129	6.84
46)	T	2-Nitroaniline	0.267	0.251	0.257	0.263	0.260	0.270	0.268	0.252	0.261	2.79
47)	T	Acenaphthylene	2.045	1.940	1.928	1.869	1.870	1.851	1.790	1.640	1.867	6.36
48)	T	Dimethylphthalate	1.317	1.218	1.214	1.178	1.187	1.220	1.223	1.159	1.214	3.91
49)	T	2,6-Dinitrotoluene	0.256	0.257	0.272	0.274	0.288	0.298	0.305	0.307	0.282	7.23
50)	MC	Acenaphthene	1.298	1.193	1.183	1.124	1.117	1.111	1.079	0.980	1.136	8.18#
51)	T	3-Nitroaniline	0.316	0.305	0.321	0.318	0.325	0.336	0.340	0.322	0.323	3.47
52)	TP	2,4-Dinitrophenol			0.033	0.085	0.127	0.158	0.183	0.191	*Q	0.9913
53)	T	Dibenzofuran	1.708	1.551	1.548	1.474	1.442	1.460	1.409	1.271	1.483	8.53
54)		2,3,4,6-Tetrachlorophenol	0.177	0.177	0.197	0.223	0.238	0.258	0.266	0.263	0.225	16.53
55)	M	2,4-Dinitrotoluene	0.325	0.338	0.356	0.365	0.385	0.392	0.386	0.349	0.362	6.75
56)	MP	4-Nitrophenol	0.089	0.095	0.108	0.123	0.137	0.141	0.148	0.137	0.122	18.42
57)	T	Fluorene	1.390	1.274	1.280	1.222	1.189	1.204	1.157	1.056	1.221	8.05
58)	T	4-Chlorophenyl-phenylethe	0.617	0.577	0.571	0.543	0.528	0.537	0.525	0.477	0.547	7.69
59)	T	Diethylphthalate	1.311	1.257	1.244	1.223	1.252	1.267	1.262	1.115	1.241	4.56
60)	T	4-Nitroaniline	0.319	0.323	0.326	0.339	0.345	0.345	0.347	0.323	0.333	3.48
61)	I	Phenanthrene-d10	----------ISTD----------									
62)	T	4,6-Dinitro-2-methylpheno			0.061	0.089	0.111	0.121	0.123	0.130	*L	0.9990
63)	T	Azobenzene	0.211	0.212	0.209	0.205	0.202	0.203	0.193	0.186	0.203	4.43
64)	TC	n-Nitrosodiphenylamine	0.589	0.565	0.558	0.538	0.520	0.514	0.498	0.468	0.531	7.39#
65)	S	2,4,6-Tribromophenol	0.063	0.066	0.070	0.074	0.076	0.079	0.079	0.080	0.074	8.64
66)	T	4-Bromophenyl-phenylether	0.195	0.184	0.186	0.184	0.184	0.188	0.183	0.181	0.186	2.23
67)	T	Hexachlorobenzene	0.209	0.198	0.195	0.189	0.190	0.193	0.189	0.189	0.194	3.57
68)	T	Atrazine	0.175	0.191	0.199	0.214	0.221	0.223	0.213		0.205	8.53
69)	MC	Pentachlorophenol			0.036	0.070	0.094	0.109	0.122	0.131	*L	0.9956
70)	T	Pentachloronitrobenzene	0.066	0.071	0.075	0.078	0.082	0.084	0.082	0.080	0.077	8.10
71)	T	Phenanthrene	1.206	1.142	1.112	1.083	1.063	1.080	1.029	0.981	1.087	6.33
72)	T	Anthracene	1.161	1.131	1.128	1.088	1.065	1.068	0.991	0.959	1.074	6.52
73)	T	Carbazole	1.125	1.098	1.094	1.064	1.047	0.993	0.929	0.900	1.031	8.00
74)	T	Di-n-butylphthalate	1.240	1.264	1.296	1.290	1.275	1.272	1.197	1.146	1.247	4.13
75)	TC	Fluoranthene	1.218	1.179	1.178	1.151	1.143	1.096	1.025	1.001	1.124	6.87#
76)	I	Chrysene-d12	----------ISTD----------									
77)	T	Benzidine		0.615	0.723	0.819	0.898	0.964	0.935		0.826	16.39
78)	M	Pyrene	1.327	1.261	1.276	1.235	1.246	1.266	1.216	1.156	1.248	3.97
79)	S	Terphenyl-d14	0.831	0.792	0.801	0.774	0.781	0.785	0.760	0.733	0.782	3.68
80)	T	Butylbenzylphthalate	0.562	0.560	0.597	0.622	0.649	0.652	0.639	0.618	0.612	5.95

Initial Calibration Summary
Form 6

Client	**: Floyd Snider Inc**	**Lab Number**	**: L1625234**
Project Name	**: LDW/AC PILOT STUDY**	**Project Number**	**: LY15160310**
Instrument ID	**: BNA8**	**Ical Ref**	**: ICAL12858**
Calibration dates	**: 09/08/16 19:35 09/09/16 03:18**		

Calibration Files

0.5 =F809081603.D 1 =F809081604.D 2 =F809081605.D 5 =F809081606.D 10 =F809081607.D

15 =F809081608.D 25 =F809081609.D 50 =F809081610.D 0.5a=F809081611.D 1.0a=F809081612.D

2.0a=F809081613.D 5.0a=F809081614.D 10a =F809081615.D 15a =F809081616.D 25a =F809081617.D

		Compound	0.5	1	2	5	10	15	25	50	Avg	%RSD
81)	T	3,3'-Dichlorobenzidine	0.337	0.368	0.390	0.421	0.453	0.450	0.448		0.410	11.18
82)	T	Benz[a]anthracene	1.196	1.134	1.138	1.150	1.189	1.223	1.222	1.212	1.183	3.14
83)	T	Chrysene	1.225	1.168	1.140	1.091	1.097	1.076	1.036	0.954	1.098	7.52
84)	T	bis(2-Ethylhexyl)phthalat	0.709	0.732	0.785	0.829	0.868	0.873	0.851	0.799	0.806	7.60
85)	I	Perylene-d12	----------ISTD----------									
86)	TC	Di-n-octylphthalate		1.310	1.520	1.658	1.730	1.694	1.641	1.566	1.588	8.96#
87)	T	Benzo[b]fluoranthene	1.155	1.121	1.167	1.245	1.246	1.272	1.237	1.325	1.221	5.55
88)	T	Benzo[k]fluoranthene	1.214	1.141	1.213	1.136	1.191	1.080	1.059	0.894	1.116	9.56
89)	TC	Benzo[a]pyrene	1.163	1.088	1.193	1.174	1.189	1.169	1.141	1.085	1.150	3.70#
90)	T	Indeno[1,2,3-cd]pyrene	0.885	0.875	0.943	1.008	1.034	1.067	1.067	1.121	1.000	9.01
91)	T	Dibenz[a,h]anthracene	0.968	0.891	0.954	1.060	1.089	1.084	1.017	0.998	1.008	6.86
92)	T	Benzo[g,h,i]perylene	1.073	1.058	1.096	1.102	1.129	1.086	1.081	1.029	1.082	2.76

Continuing Calibration
Form 7

Client	: Floyd Snider Inc	Lab Number	: L1625234		
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310		
Instrument ID	: BNA8	Calibration Date	: 09/09/16 11:41		
Lab File ID	: F809091602	Init. Calib. Date(s)	: 09/08/16	09/09/16	
Sample No	: WG930519-3	Init. Calib. Times	: 19:35	03:18	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	-	0	20	103	0
N-Nitrosodimethylamine	0.601	0.6	-	0.2	20	100	0
Pyridine	1.172	1.131	-	3.5	20	101	0
2-Fluorophenol	1.201	1.197	-	0.3	20	102	0
Aniline	1.765	1.718	-	2.7	20	100	0
bis(2-Chloroethyl)ether	0.749	0.721	-	3.7	20	100	0
Phenol-d5	1.455	1.439	-	1.1	20	101	0
Phenol	1.491	1.467	-	1.6	20	101	0
2-Chlorophenol	1.351	1.345	-	0.4	20	102	0
1,3-Dichlorobenzene	1.491	1.493	-	-0.1	20	103	0
1,4-Dichlorobenzene	1.483	1.469	-	0.9	20	103	0
1,2-Dichlorobenzene	1.409	1.4	-	0.6	20	102	0
Benzyl alcohol	0.803	0.803	-	0	20	100	0
bis(2-chloroisopropyl)ethe	1.04	0.97	-	6.7	20	97	0
2-Methylphenol	1.05	1.034	-	1.5	20	101	0
Hexachloroethane	0.542	0.539	-	0.6	20	102	0
N-Nitroso-di-n-propylamine	0.733	0.71	-	3.1	20	100	0
4-Methylphenol	1.134	1.072	-	5.5	20	99	0
Naphthalene-d8	1	1	-	0	20	101	0
Nitrobenzene-d5	0.292	0.289	-	1	20	100	0
Nitrobenzene	0.29	0.286	-	1.4	20	100	0
Isophorone	0.467	0.462	-	1.1	20	99	0
2-Nitrophenol	0.19	0.193	-	-1.6	20	100	0
2,4-Dimethylphenol	0.302	0.284	-	6	20	97	0
Benzoic acid	10	8.844	-	11.6	20	82	0
bis(2-Chloroethoxy)methane	0.338	0.332	-	1.8	20	101	0
2,4-Dichlorophenol	0.276	0.28	-	-1.4	20	101	0
1,2,4-Trichlorobenzene	0.299	0.296	-	1	20	101	0
Naphthalene	0.961	0.946	-	1.6	20	101	0
2-Chloroaniline	0.485	0.484	-	0.2	20	101	0
4-Chloroaniline	0.414	0.414	-	0	20	101	0
Hexachlorobutadiene	0.152	0.153	-	-0.7	20	102	0
4-Chloro-3-methylphenol	0.266	0.259	-	2.6	20	98	0
2-Methylnaphthalene	0.652	0.655	-	-0.5	20	102	0
Acenaphthene-d10	1	1	-	0	20	101	0
1,2,4,5-Tetrachlorobenzene	0.521	0.524	-	-0.6	20	102	0
Hexachlorocyclopentadiene	10	9.783	-	2.2	20	103	0
2,4,6-Trichlorophenol	0.375	0.374	-	0.3	20	102	0
2,4,5-Trichlorophenol	0.334	0.357	-	-6.9	20	106	0
2-Fluorobiphenyl	1.262	1.25	-	1	20	101	0
2-Chloronaphthalene	1.129	1.122	-	0.6	20	101	0
2-Nitroaniline	0.261	0.258	-	1.1	20	101	0
Acenaphthylene	1.867	1.851	-	0.9	20	100	0
Dimethylphthalate	1.214	1.208	-	0.5	20	103	0
2,6-Dinitrotoluene	0.282	0.293	-	-3.9	20	103	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: Floyd Snider Inc		Lab Number	: L1625234	
Project Name	: LDW/AC PILOT STUDY		Project Number	: LY15160310	
Instrument ID	: BNA8		Calibration Date	: 09/09/16 11:41	
Lab File ID	: F809091602		Init. Calib. Date(s)	: 09/08/16	09/09/16
Sample No	: WG930519-3		Init. Calib. Times	: 19:35	03:18
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthene	1.136	1.114	-	1.9	20	101	0
3-Nitroaniline	0.323	0.326	-	-0.9	20	102	0
2,4-Dinitrophenol	10	9.44	-	5.6	20	99	0
Dibenzofuran	1.483	1.464	-	1.3	20	103	0
2,3,4,6-Tetrachlorophenol	0.225	0.244	-	-8.4	20	104	0
2,4-Dinitrotoluene	0.362	0.372	-	-2.8	20	98	0
4-Nitrophenol	0.122	0.117	-	4.1	20	87	0
Fluorene	1.221	1.213	-	0.7	20	103	0
4-Chlorophenyl-phenylether	0.547	0.536	-	2	20	103	0
Diethylphthalate	1.241	1.26	-	-1.5	20	102	0
4-Nitroaniline	0.333	0.346	-	-3.9	20	102	0
Phenanthrene-d10	1	1	-	0	20	100	0
4,6-Dinitro-2-methylphenol	10	9.932	-	0.7	20	103	0
Azobenzene	0.203	0.208	-	-2.5	20	103	0
n-Nitrosodiphenylamine	0.531	0.538	-	-1.3	20	104	0
2,4,6-Tribromophenol	0.074	0.081	-	-9.5	20	106	0
4-Bromophenyl-phenylether	0.186	0.187	-	-0.5	20	102	0
Hexachlorobenzene	0.194	0.198	-	-2.1	20	104	0
Pentachlorophenol	10	9.443	-	5.6	20	106	0
Pentachloronitrobenzene	0.077	0.084	-	-9.1	20	102	0
Phenanthrene	1.087	1.097	-	-0.9	20	103	0
Anthracene	1.074	1.089	-	-1.4	20	102	0
Carbazole	1.031	1.064	-	-3.2	20	102	0
Di-n-butylphthalate	1.247	1.277	-	-2.4	20	100	0
Fluoranthene	1.124	1.145	-	-1.9	20	100	0
Chrysene-d12	1	1	-	0	20	104	0
Pyrene	1.248	1.228	-	1.6	20	102	0
Terphenyl-d14	0.782	0.771	-	1.4	20	103	0
Butylbenzylphthalate	0.612	0.632	-	-3.3	20	101	0
Benz[a]anthracene	1.183	1.145	-	3.2	20	100	0
Chrysene	1.098	1.125	-	-2.5	20	107	0
bis(2-Ethylhexyl)phthalate	0.806	0.826	-	-2.5	20	99	0
Perylene-d12	1	1	-	0	20	106	0
Di-n-octylphthalate	1.588	1.609	-	-1.3	20	99	0
Benzo[b]fluoranthene	1.221	1.165	-	4.6	20	100	0
Benzo[k]fluoranthene	1.116	1.149	-	-3	20	103	0
Benzo[a]pyrene	1.15	1.117	-	2.9	20	100	0
Indeno[1,2,3-cd]pyrene	1	0.998	-	0.2	20	103	0
Dibenz[a,h]anthracene	1.008	1.052	-	-4.4	20	103	0
Benzo[g,h,i]perylene	1.082	1.041	-	3.8	20	98	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: Floyd Snider Inc		Lab Number	: L1625234	
Project Name	: LDW/AC PILOT STUDY		Project Number	: LY15160310	
Instrument ID	: BNA8		Calibration Date	: 09/09/16 12:16	
Lab File ID	: F809091603		Init. Calib. Date(s)	: 09/08/16	09/09/16
Sample No	: WG930519-4		Init. Calib. Times	: 19:35	03:18
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	-	0	20	116	0
Benzaldehyde	0.938	0.95	-	-1.3	20	96	0
Acetophenone	1.604	1.645	-	-2.6	20	96	0
Naphthalene-d8	1	1	-	0	20	115	0
Caprolactam	0.089	0.101	-	-13.5	20	98	0
Acenaphthene-d10	1	1	-	0	20	113	0
Biphenyl	1.443	1.479	-	-2.5	20	98	0
Phenanthrene-d10	1	1	-	0	20	107	0
Atrazine	0.205	0.227	-	-10.7	20	98	0
Chrysene-d12	1	1	-	0	20	109	0
Benzidine	0.826	0.94	-	-13.8	20	103	0
3,3'-Dichlorobenzidine	0.41	0.463	-	-12.9	20	100	0
Perylene-d12	1	1	-	0	20	112	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: Floyd Snider Inc		Lab Number	: L1625234	
Project Name	: LDW/AC PILOT STUDY		Project Number	: LY15160310	
Instrument ID	: BNA8		Calibration Date	: 09/09/16 21:16	
Lab File ID	: F809091620		Init. Calib. Date(s)	: 09/08/16	09/09/16
Sample No	: WG930519-7		Init. Calib. Times	: 19:35	03:18
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	-	0	20	107	0
N-Nitrosodimethylamine	0.601	0.596	-	0.8	20	103	0
Pyridine	1.172	1.116	-	4.8	20	103	0
2-Fluorophenol	1.201	1.199	-	0.2	20	106	0
Aniline	1.765	1.715	-	2.8	20	104	0
bis(2-Chloroethyl)ether	0.749	0.713	-	4.8	20	103	0
Phenol-d5	1.455	1.432	-	1.6	20	104	0
Phenol	1.491	1.464	-	1.8	20	105	0
2-Chlorophenol	1.351	1.345	-	0.4	20	106	0
1,3-Dichlorobenzene	1.491	1.495	-	-0.3	20	107	0
1,4-Dichlorobenzene	1.483	1.473	-	0.7	20	107	0
1,2-Dichlorobenzene	1.409	1.403	-	0.4	20	106	0
Benzyl alcohol	0.803	0.8	-	0.4	20	104	0
bis(2-chloroisopropyl)ethe	1.04	0.979	-	5.9	20	101	0
2-Methylphenol	1.05	1.039	-	1	20	105	0
Hexachloroethane	0.542	0.539	-	0.6	20	105	0
N-Nitroso-di-n-propylamine	0.733	0.71	-	3.1	20	103	0
4-Methylphenol	1.134	1.087	-	4.1	20	104	0
Naphthalene-d8	1	1	-	0	20	106	0
Nitrobenzene-d5	0.292	0.287	-	1.7	20	103	0
Nitrobenzene	0.29	0.283	-	2.4	20	103	0
Isophorone	0.467	0.465	-	0.4	20	104	0
2-Nitrophenol	0.19	0.193	-	-1.6	20	105	0
2,4-Dimethylphenol	0.302	0.277	-	8.3	20	99	0
Benzoic acid	10	9.244	-	7.6	20	102	0
bis(2-Chloroethoxy)methane	0.338	0.327	-	3.3	20	104	0
2,4-Dichlorophenol	0.276	0.278	-	-0.7	20	105	0
1,2,4-Trichlorobenzene	0.299	0.299	-	0	20	107	0
Naphthalene	0.961	0.94	-	2.2	20	105	0
2-Chloroaniline	0.485	0.485	-	0	20	106	0
4-Chloroaniline	0.414	0.409	-	1.2	20	104	0
Hexachlorobutadiene	0.152	0.151	-	0.7	20	106	0
4-Chloro-3-methylphenol	0.266	0.265	-	0.4	20	105	0
2-Methylnaphthalene	0.652	0.648	-	0.6	20	105	0
Acenaphthene-d10	1	1	-	0	20	106	0
1,2,4,5-Tetrachlorobenzene	0.521	0.52	-	0.2	20	106	0
Hexachlorocyclopentadiene	10	9.692	-	3.1	20	107	0
2,4,6-Trichlorophenol	0.375	0.371	-	1.1	20	106	0
2,4,5-Trichlorophenol	0.334	0.353	-	-5.7	20	110	0
2-Fluorobiphenyl	1.262	1.245	-	1.3	20	106	0
2-Chloronaphthalene	1.129	1.118	-	1	20	106	0
2-Nitroaniline	0.261	0.258	-	1.1	20	106	0
Acenaphthylene	1.867	1.841	-	1.4	20	105	0
Dimethylphthalate	1.214	1.205	-	0.7	20	108	0
2,6-Dinitrotoluene	0.282	0.289	-	-2.5	20	107	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: Floyd Snider Inc		Lab Number	: L1625234	
Project Name	: LDW/AC PILOT STUDY		Project Number	: LY15160310	
Instrument ID	: BNA8		Calibration Date	: 09/09/16 21:16	
Lab File ID	: F809091620		Init. Calib. Date(s)	: 09/08/16	09/09/16
Sample No	: WG930519-7		Init. Calib. Times	: 19:35	03:18
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthene	1.136	1.109	-	2.4	20	106	0
3-Nitroaniline	0.323	0.327	-	-1.2	20	107	0
2,4-Dinitrophenol	10	9.119	-	8.8	20	100	0
Dibenzofuran	1.483	1.465	-	1.2	20	108	0
2,3,4,6-Tetrachlorophenol	0.225	0.247	-	-9.8	20	111	0
2,4-Dinitrotoluene	0.362	0.387	-	-6.9	20	107	0
4-Nitrophenol	0.122	0.119	-	2.5	20	93	0
Fluorene	1.221	1.208	-	1.1	20	108	0
4-Chlorophenyl-phenylether	0.547	0.538	-	1.6	20	108	0
Diethylphthalate	1.241	1.241	-	0	20	106	0
4-Nitroaniline	0.333	0.337	-	-1.2	20	104	0
Phenanthrene-d10	1	1	-	0	20	107	0
4,6-Dinitro-2-methylphenol	10	9.917	-	0.8	20	110	0
Azobenzene	0.203	0.203	-	0	20	108	0
n-Nitrosodiphenylamine	0.531	0.534	-	-0.6	20	109	0
2,4,6-Tribromophenol	0.074	0.08	-	-8.1	20	111	0
4-Bromophenyl-phenylether	0.186	0.185	-	0.5	20	107	0
Hexachlorobenzene	0.194	0.194	-	0	20	109	0
Pentachlorophenol	10	9.66	-	3.4	20	116	0
Pentachloronitrobenzene	0.077	0.083	-	-7.8	20	108	0
Phenanthrene	1.087	1.072	-	1.4	20	108	0
Anthracene	1.074	1.069	-	0.5	20	107	0
Carbazole	1.031	1.043	-	-1.2	20	106	0
Di-n-butylphthalate	1.247	1.253	-	-0.5	20	105	0
Fluoranthene	1.124	1.119	-	0.4	20	104	0
Chrysene-d12	1	1	-	0	20	106	0
Pyrene	1.248	1.256	-	-0.6	20	107	0
Terphenyl-d14	0.782	0.792	-	-1.3	20	108	0
Butylbenzylphthalate	0.612	0.642	-	-4.9	20	105	0
Benz[a]anthracene	1.183	1.19	-	-0.6	20	106	0
Chrysene	1.098	1.109	-	-1	20	107	0
bis(2-Ethylhexyl)phthalate	0.806	0.857	-	-6.3	20	105	0
Perylene-d12	1	1	-	0	20	113	0
Di-n-octylphthalate	1.588	1.614	-	-1.6	20	105	0
Benzo[b]fluoranthene	1.221	1.156	-	5.3	20	105	0
Benzo[k]fluoranthene	1.116	1.126	-	-0.9	20	106	0
Benzo[a]pyrene	1.15	1.144	-	0.5	20	108	0
Indeno[1,2,3-cd]pyrene	1	0.987	-	1.3	20	108	0
Dibenz[a,h]anthracene	1.008	1.04	-	-3.2	20	108	0
Benzo[g,h,i]perylene	1.082	1.079	-	0.3	20	108	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: Floyd Snider Inc		Lab Number	: L1625234	
Project Name	: LDW/AC PILOT STUDY		Project Number	: LY15160310	
Instrument ID	: BNA8		Calibration Date	: 09/09/16 21:47	
Lab File ID	: F809091621		Init. Calib. Date(s)	: 09/08/16	09/09/16
Sample No	: WG930519-8		Init. Calib. Times	: 19:35	03:18
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	-	0	20	120	0
Benzaldehyde	0.938	0.949	-	-1.2	20	98	0
Acetophenone	1.604	1.656	-	-3.2	20	100	0
Naphthalene-d8	1	1	-	0	20	120	0
Caprolactam	0.089	0.099	-	-11.2	20	99	0
Acenaphthene-d10	1	1	-	0	20	117	0
Biphenyl	1.443	1.464	-	-1.5	20	101	0
Phenanthrene-d10	1	1	-	0	20	110	0
Atrazine	0.205	0.229	-	-11.7	20	102	0
Chrysene-d12	1	1	-	0	20	114	0
Benzidine	0.826	0.955	-	-15.6	20	110	0
3,3'-Dichlorobenzidine	0.41	0.463	-	-12.9	20	105	0
Perylene-d12	1	1	-	0	20	115	0

* Value outside of QC limits.

Internal Standard Area and RT Summary
Form 8

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: BNA8	Analysis Date	: 09/09/16 11:41
Sample No	: WG930519-3	Lab File ID	: F809091602

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG930519-3	223431	4.88	833846	6.05	450264	7.75
Upper Limit	446862	5.38	1667692	6.55	900528	8.25
Lower Limit	111716	4.38	416923	5.55	225132	7.25
Sample ID						
WG930519-4 CCAL	251861	4.88	945487	6.04	502300	7.75
WG929407-1 BLANK	236126	4.88	898737	6.04	477391	7.75
WG929407-2 LCS	224498	4.88	831147	6.04	437244	7.75
WG929407-3 LCSD	224706	4.88	827522	6.04	446356	7.75

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8

Client	: Floyd Snider Inc	**Lab Number**	: L1625234
Project Name	: LDW/AC PILOT STUDY	**Project Number**	: LY15160310
Instrument ID	: BNA8	**Analysis Date**	: 09/09/16 11:41
Sample No	: WG930519-3	**Lab File ID**	: F809091602

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG930519-3	736431	9.60	708030	14.93	647646	18.00
Upper Limit	1472862	10.10	1416060	15.43	1295292	18.50
Lower Limit	368216	9.10	354015	14.43	323823	17.50
Sample ID						
WG930519-4 CCAL	784441	9.60	741312	14.92	681590	17.99
WG929407-1 BLANK	767862	9.60	722223	14.91	641841	17.99
WG929407-2 LCS	703561	9.60	650069	14.93	592153	18.00
WG929407-3 LCSD	721937	9.60	663101	14.92	611338	18.00

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: BNA8	Analysis Date	: 09/09/16 21:16
Sample No	: WG930519-7	Lab File ID	: F809091620

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG930519-7	231449	4.88	872325	6.04	473467	7.75
Upper Limit	462898	5.38	1744650	6.54	946934	8.25
Lower Limit	115725	4.38	436163	5.54	236734	7.25
Sample ID						
WG930519-8 CCAL	259539	4.88	985874	6.04	521450	7.75
LDW-BA-PC-ENRMAT-SAND	232671	4.88	878216	6.04	464148	7.75
LDW-BA-PC-ENRMAT-SAND DUP	235992	4.88	884652	6.04	470372	7.75
LDW-BA-PC-ENRMAT-SAND MS	233009	4.88	853238	6.04	452483	7.75
LDW-BA-PC-ENRMAT-SAND MSD	235273	4.88	861052	6.04	455939	7.75
LDW-BA-PC-ENRMAT-GRAVSAND	237732	4.88	889222	6.04	468216	7.75
LDW-BA-PC-ENRMAT-GRAVSAND MS	245093	4.88	897958	6.04	476043	7.75
LDW-BA-PC-ENRMAT-GRAVSAND MSD	235662	4.88	863513	6.04	457392	7.75

Area Upper Limit = +100% of internal standard area
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RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8

Client	: Floyd Snider Inc	Lab Number	: L1625234
Project Name	: LDW/AC PILOT STUDY	Project Number	: LY15160310
Instrument ID	: BNA8	Analysis Date	: 09/09/16 21:16
Sample No	: WG930519-7	Lab File ID	: F809091620

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG930519-7	784761	9.60	724050	14.92	685355	18.00
Upper Limit	1569522	10.10	1448100	15.42	1370710	18.50
Lower Limit	392381	9.10	362025	14.42	342678	17.50
Sample ID						
WG930519-8 CCAL	811724	9.59	778983	14.91	698221	17.99
LDW-BA-PC-ENRMAT-SAND	753106	9.59	698487	14.91	637546	17.99
LDW-BA-PC-ENRMAT-SAND DUP	754756	9.59	709245	14.91	644245	17.99
LDW-BA-PC-ENRMAT-SAND MS	742703	9.60	681656	14.92	589459	17.99
LDW-BA-PC-ENRMAT-SAND MSD	727796	9.60	690039	14.92	633663	18.00
LDW-BA-PC-ENRMAT-GRAVSAND	778276	9.59	723637	14.91	660778	17.99
LDW-BA-PC-ENRMAT-GRAVSAND MS	787655	9.60	719910	14.92	661859	18.00
LDW-BA-PC-ENRMAT-GRAVSAND MSD	743878	9.60	684567	14.92	630350	18.00

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits