August 9, 2019

Gretchen Heavner, Ph.D.
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101

Dear Dr. Heavner,

The following results are associated with Frontier Analytical Laboratory (FAL) project **12513**. These results correspond to your **LDW ENR/AC Pilot Study** project under project number **LY15160310**. Ten hexane solvent samples were received on 6/28/2019. Per your e-mail request on 7/9/2019, the following samples were prepared however not analyzed; 12513-005-SA, 12513-006-SA, and 12513-007-SA (Floyd Snider IDs: LDW-Y2-SC-ENR+AC-CE-SSW1, LDW-Y2-SC-ENR-CA-SSW1, and LDW-Y2-SC-ENR-CB-SSW1 respectively). In addition, you requested we combine samples 12513-001-SA and 12513-004-SA (Floyd Snider IDs: LDW-Y2-SC-ENR+AC-CA-SSW1 and LDW-Y2-SC-ENR+AC-CD-SSW1 respectively). These samples were combined and given the FAL sample ID 12513-011-SA and Floyd Snider Sample ID: LDW-Y2-SC-ENR+AC-CA/AC-CD-SSW1. The original five samples as well as the one composited sample were extracted and analyzed following EPA Method 1668C for all 209 polychlorinated biphenyls (PCBs). The total PCB concentration is listed in the upper right hand corner of the first data page (Page 1 of 3) of each EPA Method 1668C sample. A turnaround time of fifteen business days was requested for project **12513**.

Please note that sample 12513-006-SA (Floyd Snider Sample ID: LDW-Y2-SC-ENR-CA-SSW1) was received with a cracked sample container vial (see following sample Photo 3 of 3). This anomaly was noted when we began processing the sample. The hexane volume contained in the vial was 0.10ml as compared to 5.00mls contained in the other sample containers. Although you requested we process but not analyzed this sample, we wanted to alert you of this anomaly.

The following Level IV report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section and an Instrument Raw Data section. The Analytical Data section contains our sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, your e-mail correspondence dated 7/9/2019, our sample login form and the sample photos. The Laboratory Raw Data section contains our project request sheet, an extraction bench sheet and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms and chromatograms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms and chromatograms for each point of the initial calibration curve as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms and chromatograms for all beginning and ending calibration injections associated with the samples and QC. The enclosed results are specifically for the samples referenced in this report only. These results meet all National Environmental Laboratory Accreditation Program (NELAP) requirements and shall not be reproduced except in full. Frontier Analytical Laboratory's State of Oregon NELAP certificate number is **4041**. Our State of Washington ELAP certificate number is **C844**. This report and the EDD have been emailed to you. A portable document format (PDF) file of this report has been uploaded to your website using Sharefile.

If you have any questions regarding project **12513**, please feel free to contact me at 916-934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **12513**

Received on: **06/28/2019** Project Due: **07/23/2019** Storage: **R-5**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
12513-001-SA	0	LY15160310	LDW-Y2-SC-ENR+AC-CA-SSWI	EPA 1668 PCB	Solvent	06/26/2019	10:50 am	06/25/2020
12513-002-SA	0	LY15160310	LDW-Y2-SC-ENR+AC-CB-SSWI	EPA 1668 PCB	Solvent	06/26/2019	10:56 am	06/25/2020
12513-003-SA	0	LY15160310	LDW-Y2-SC-ENR+AC-CC-SSWI	EPA 1668 PCB	Solvent	06/26/2019	11:02 am	06/25/2020
12513-004-SA	0	LY15160310	LDW-Y2-SC-ENR+AC-CD-SSWI	EPA 1668 PCB	Solvent	06/26/2019	11:09 am	06/25/2020
12513-005-SA	0	LY15160310	LDW-Y2-SC-ENR+AC-CE-SSWI	EPA 1668 PCB	Solvent	06/26/2019	11:13 am	06/25/2020
12513-006-SA	0	LY15160310	LDW-Y2-SC-ENR-CA-SSWI	EPA 1668 PCB	Solvent	06/26/2019	11:23 am	06/25/2020
12513-007-SA	0	LY15160310	LDW-Y2-SC-ENR-CB-SSWI	EPA 1668 PCB	Solvent	06/26/2019	11:30 am	06/25/2020
12513-008-SA	0	LY15160310	LDW-Y2-SC-ENR-CC-SSWI	EPA 1668 PCB	Solvent	06/26/2019	11:36 am	06/25/2020
12513-009-SA	0	LY15160310	LDW-Y2-SC-ENR-CD-SSWI	EPA 1668 PCB	Solvent	06/26/2019	11:47 am	06/25/2020
12513-010-SA	0	LY15160310	LDW-Y2-SC-ENR-CE-SSWI	EPA 1668 PCB	Solvent	06/26/2019	11:57 am	06/25/2020
12513-011-SA	0	LY15160310	LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI	EPA 1668 PCB	Solvent	06/26/2019	NP	06/25/2020

FAL Sample ID	Notes
12513-001-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019 Comp with sample 4 (LDW-Y2-SC-ENR+AC-CD-SSWI)
12513-002-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12513-003-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12513-004-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019 Comp with sample 1 (LDW-Y2-SC-ENR+AC-CA-SSW1)
12513-005-SA	Extract and hold.
12513-006-SA	Extract and hold.
12513-007-SA	Extract and hold.
12513-008-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12513-009-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12513-010-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12513-011-SA	Sample is a composite of LDW-Y2-SC-ENR+AC-CA-SSWI and LDW-Y2-SC-ENR+AC-CD-SSWI.

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EPA Method 1668
PCBs

FAL ID: 12513-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-07-2019
Total Conc: 0.0

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.30			PCB-51	ND	2.49		
PCB-2	ND	2.49			PCB-52	ND	2.56	C	69
PCB-3	ND	2.68			PCB-53	ND	2.60		
PCB-4	ND	5.32			PCB-54	ND	2.01		
PCB-5	ND	4.61			PCB-55	ND	2.32		
PCB-6	ND	4.46			PCB-56	ND	3.99	C	60
PCB-7	ND	4.52			PCB-57	ND	2.39		
PCB-8	ND	4.61			PCB-58	ND	2.26		
PCB-9	ND	4.40			PCB-59	-	-	C042	42
PCB-10	ND	4.83			PCB-60	-	-	C056	56
PCB-11	ND	5.12			PCB-61	ND	2.57	C	70
PCB-12	ND	5.00			PCB-62	ND	2.19		
PCB-13	ND	5.23			PCB-63	ND	2.39		
PCB-14	ND	4.67			PCB-64	-	-	C041	41/71/72
PCB-15	ND	5.71			PCB-65	ND	2.28		
PCB-16	ND	2.98			PCB-66	ND	2.33	C	76
PCB-17	ND	3.13			PCB-67	ND	2.53		
PCB-18	ND	3.44			PCB-68	ND	2.15		
PCB-19	ND	3.42			PCB-69	-	-	C052	52
PCB-20	ND	5.00	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	4.78			PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.36			PCB-73	ND	2.08		
PCB-24	ND	2.47			PCB-74	ND	2.45		
PCB-25	ND	4.81			PCB-75	-	-	C048	48
PCB-26	ND	4.74			PCB-76	-	-	C066	66
PCB-27	ND	2.34			PCB-77	ND	4.19		
PCB-28	ND	4.16			PCB-78	ND	3.66		
PCB-29	ND	4.52			PCB-79	ND	3.51		
PCB-30	ND	2.29			PCB-80	ND	1.99		
PCB-31	ND	4.62			PCB-81	ND	3.40		
PCB-32	ND	2.65			PCB-82	ND	6.85		
PCB-33	-	-	C020	20/21	PCB-83	ND	4.97	C	112
PCB-34	ND	5.19			PCB-84	ND	5.46	C	92
PCB-35	ND	5.70			PCB-85	ND	4.57	C	116
PCB-36	ND	5.00			PCB-86	ND	5.43		
PCB-37	ND	5.43			PCB-87	ND	4.56	C	117/125
PCB-38	ND	5.04			PCB-88	ND	2.23	C	91
PCB-39	ND	5.05			PCB-89	ND	5.55		
PCB-40	ND	3.98			PCB-90	ND	4.97	C	101
PCB-41	ND	2.49	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	2.66	C	59	PCB-92	-	-	C084	84
PCB-43	ND	2.95	C	49	PCB-93	ND	2.35		
PCB-44	ND	3.47			PCB-94	ND	2.53		
PCB-45	ND	3.02			PCB-95	ND	2.35		
PCB-46	ND	3.20			PCB-96	ND	1.64		
PCB-47	ND	2.77			PCB-97	ND	6.05		
PCB-48	ND	2.30	C	75	PCB-98	ND	2.49	C	102
PCB-49	-	-	C043	43	PCB-99	ND	4.49		
PCB-50	ND	2.55			PCB-100	ND	2.05		

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EPA Method 1668
PCBs

FAL ID: 12513-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-07-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	3.43		
PCB-102	-	-	C098	98	PCB-152	ND	2.25		
PCB-103	ND	2.09			PCB-153	ND	2.77		
PCB-104	ND	1.50			PCB-154	ND	2.49		
PCB-105	ND	3.22			PCB-155	ND	1.93		
PCB-106	ND	3.08	C	118	PCB-156	ND	2.86		
PCB-107	ND	3.20	C	108	PCB-157	ND	2.86		
PCB-108	-	-	C107	107	PCB-158	ND	2.59	C	160
PCB-109	ND	4.15			PCB-159	ND	2.49		
PCB-110	ND	4.00			PCB-160	-	-	C158	158
PCB-111	ND	3.95	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.32			PCB-163	-	-	C138	138/164
PCB-114	ND	3.23			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	2.74		
PCB-117	-	-	C087	87/125	PCB-167	ND	2.70		
PCB-118	-	-	C	106	PCB-168	ND	2.57		
PCB-119	ND	3.92			PCB-169	ND	2.63		
PCB-120	ND	3.81			PCB-170	ND	3.94		
PCB-121	ND	1.85			PCB-171	ND	3.81		
PCB-122	ND	3.32			PCB-172	ND	4.07		
PCB-123	ND	3.30			PCB-173	ND	4.36		
PCB-124	ND	3.06			PCB-174	ND	3.76		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.82		
PCB-126	ND	4.10			PCB-176	ND	2.76		
PCB-127	ND	3.36			PCB-177	ND	4.19		
PCB-128	ND	3.18	C	162	PCB-178	ND	3.97		
PCB-129	ND	4.13			PCB-179	ND	2.67		
PCB-130	ND	3.68			PCB-180	ND	3.96		
PCB-131	ND	3.87	C	133	PCB-181	ND	3.94		
PCB-132	ND	3.16	C	161	PCB-182	ND	3.45	C	187
PCB-133	-	-	C131	131	PCB-183	ND	3.54		
PCB-134	ND	3.91	C	143	PCB-184	ND	2.53		
PCB-135	ND	3.62			PCB-185	ND	3.88		
PCB-136	ND	2.09			PCB-186	ND	2.72		
PCB-137	ND	3.89			PCB-187	-	-	C182	182
PCB-138	ND	2.88	C	163/164	PCB-188	ND	3.06		
PCB-139	ND	3.04	C	149	PCB-189	ND	2.45		
PCB-140	ND	3.24			PCB-190	ND	2.90		
PCB-141	ND	3.53			PCB-191	ND	2.95		
PCB-142	ND	3.90			PCB-192	ND	3.10		
PCB-143	-	-	C134	134	PCB-193	ND	2.93		
PCB-144	ND	2.96			PCB-194	ND	3.27		
PCB-145	ND	2.03			PCB-195	ND	3.49		
PCB-146	ND	2.89	C	165	PCB-196	ND	3.11	C	203
PCB-147	ND	3.22			PCB-197	ND	2.40		
PCB-148	ND	3.08			PCB-198	ND	3.24		
PCB-149	-	-	C139	139	PCB-199	ND	3.43		
PCB-150	ND	2.00			PCB-200	ND	2.50		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12513-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-07-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.47		
PCB-202	ND	2.69		
PCB-203	-	-	C196	196
PCB-204	ND	2.54		
PCB-205	ND	2.56		
PCB-206	ND	1.67		
PCB-207	ND	1.17		
PCB-208	ND	1.09		
PCB-209	ND	1.23		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	89.1	5.00 - 145	
13C-PCB-3	89.3	5.00 - 145	
13C-PCB-4	93.2	5.00 - 145	
13C-PCB-15	91.8	5.00 - 145	
13C-PCB-19	93.2	5.00 - 145	
13C-PCB-37	88.1	5.00 - 145	
13C-PCB-54	99.6	5.00 - 145	
13C-PCB-77	91.7	10.0 - 145	
13C-PCB-81	91.2	10.0 - 145	
13C-PCB-104	99.5	10.0 - 145	
13C-PCB-105	91.4	10.0 - 145	
13C-PCB-114	94.0	10.0 - 145	
13C-PCB-118	93.7	10.0 - 145	
13C-PCB-123	95.7	10.0 - 145	
13C-PCB-126	89.0	10.0 - 145	
13C-PCB-155	99.1	10.0 - 145	
13C-PCB-156	85.9	10.0 - 145	
13C-PCB-157	90.0	10.0 - 145	
13C-PCB-167	92.7	10.0 - 145	
13C-PCB-169	87.8	10.0 - 145	
13C-PCB-188	95.2	10.0 - 145	
13C-PCB-189	93.0	10.0 - 145	
13C-PCB-202	94.6	10.0 - 145	
13C-PCB-205	92.7	10.0 - 145	
13C-PCB-206	92.8	10.0 - 145	
13C-PCB-208	89.8	10.0 - 145	
13C-PCB-209	92.5	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	107	5.00 - 145	
13C-PCB-111	97.7	10.0 - 145	
13C-PCB-178	101	10.0 - 145	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Coelution
D	Presence of Diphenyl Ethers
DNQ	Analyte concentration is below calibration range
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected at Detection Limit Level
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]

Date: 8/9/2019

Reviewed By: DPV

Date: 8/9/2019

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EPA Method 1668
PCBs

FAL ID: 12513-001-OPR
Client ID: OPR
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB1MS
Units: ng/ml

Acquired: 08-07-2019

Compound	% Recovery	QC Limits	Qual
PCB-1	101	60.0 - 135	
PCB-3	96.4	60.0 - 135	
PCB-4	91.4	60.0 - 135	
PCB-15	93.6	60.0 - 135	
PCB-19	98.6	60.0 - 135	
PCB-37	92.6	60.0 - 135	
PCB-54	104	60.0 - 135	
PCB-77	105	60.0 - 135	
PCB-81	93.2	60.0 - 135	
PCB-104	102	60.0 - 135	
PCB-105	91.4	60.0 - 135	
PCB-114	90.6	60.0 - 135	
PCB-118	103	60.0 - 135	
PCB-123	102	60.0 - 135	
PCB-126	95.0	60.0 - 135	
PCB-155	97.6	60.0 - 135	
PCB-156	97.0	60.0 - 135	
PCB-157	95.2	60.0 - 135	
PCB-167	96.8	60.0 - 135	
PCB-169	101	60.0 - 135	
PCB-188	106	60.0 - 135	
PCB-189	100	60.0 - 135	
PCB-202	109	60.0 - 135	
PCB-205	99.6	60.0 - 135	
PCB-206	99.4	60.0 - 135	
PCB-208	101	60.0 - 135	
PCB-209	102	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	85.5	15.0 - 145	
13C-PCB-3	87.2	15.0 - 145	
13C-PCB-4	87.9	15.0 - 145	
13C-PCB-15	88.3	15.0 - 145	
13C-PCB-19	89.3	15.0 - 145	
13C-PCB-37	86.8	15.0 - 145	
13C-PCB-54	94.9	15.0 - 145	
13C-PCB-77	82.6	40.0 - 145	
13C-PCB-81	84.5	40.0 - 145	
13C-PCB-104	90.0	40.0 - 145	
13C-PCB-105	86.7	40.0 - 145	
13C-PCB-114	88.4	40.0 - 145	
13C-PCB-118	86.2	40.0 - 145	
13C-PCB-123	89.3	40.0 - 145	
13C-PCB-126	89.4	40.0 - 145	
13C-PCB-155	86.3	40.0 - 145	
13C-PCB-156	85.0	40.0 - 145	
13C-PCB-157	87.9	40.0 - 145	
13C-PCB-167	90.7	40.0 - 145	
13C-PCB-169	84.4	40.0 - 145	
13C-PCB-188	86.1	40.0 - 145	
13C-PCB-189	88.8	40.0 - 145	
13C-PCB-202	87.3	40.0 - 145	
13C-PCB-205	86.7	40.0 - 145	
13C-PCB-206	87.5	40.0 - 145	
13C-PCB-208	87.2	40.0 - 145	
13C-PCB-209	86.8	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	102	15.0 - 145	
13C-PCB-111	91.3	40.0 - 145	
13C-PCB-178	101	40.0 - 145	

Analyst: _____

Date: 8/9/2019

Reviewed By: DPV

Date: 8/9/2019

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12513-002-SA
Client ID: LDW-Y2-SC-ENR+AC-CB-SSWI
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-07-2019
Total Conc: 24500

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.79			PCB-51	40.0	-		
PCB-2	ND	2.99			PCB-52	593	-	C	69
PCB-3	ND	3.19			PCB-53	139	-		
PCB-4	94.8	-			PCB-54	4.90	-	J	
PCB-5	ND	4.54			PCB-55	20.0	-		
PCB-6	56.2	-			PCB-56	205	-	C	60
PCB-7	11.0	-	J		PCB-57	ND	3.56		
PCB-8	283	-			PCB-58	ND	3.37		
PCB-9	14.3	-	J		PCB-59	-	-	C042	42
PCB-10	7.66	-	J		PCB-60	-	-	C056	56
PCB-11	21.8	-			PCB-61	411	-	C	70
PCB-12	7.05	-	J		PCB-62	ND	3.27		
PCB-13	6.03	-	J		PCB-63	16.7	-	J	
PCB-14	164	-			PCB-64	-	-	C041	41/71/72
PCB-15	83.0	-			PCB-65	ND	3.39		
PCB-16	332	-			PCB-66	326	-	C	76
PCB-17	362	-			PCB-67	16.0	-	J	
PCB-18	913	-			PCB-68	9.25	-	J	
PCB-19	115	-			PCB-69	-	-	C052	52
PCB-20	448	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	231	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	5.83			PCB-73	13.0	-	J	
PCB-24	45.6	-			PCB-74	173	-		
PCB-25	73.4	-			PCB-75	-	-	C048	48
PCB-26	121	-			PCB-76	-	-	C066	66
PCB-27	41.9	-			PCB-77	22.0	-		
PCB-28	621	-			PCB-78	716	-		
PCB-29	ND	6.05			PCB-79	4.05	-	J	
PCB-30	ND	2.43			PCB-80	ND	2.97		
PCB-31	553	-			PCB-81	10.1	-	J	
PCB-32	246	-			PCB-82	27.7	-		
PCB-33	-	-	C020	20/21	PCB-83	12.3	-	C,J	112
PCB-34	ND	6.95			PCB-84	127	-	C	92
PCB-35	ND	7.63			PCB-85	34.6	-	C	116
PCB-36	247	-			PCB-86	ND	4.71		
PCB-37	116	-			PCB-87	85.4	-	C	117/125
PCB-38	ND	6.74			PCB-88	ND	1.94	C	91
PCB-39	ND	6.76			PCB-89	6.28	-	J	
PCB-40	108	-			PCB-90	264	-	C	101
PCB-41	454	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	205	-	C	59	PCB-92	-	-	C084	84
PCB-43	481	-	C	49	PCB-93	ND	2.04		
PCB-44	537	-			PCB-94	ND	2.20		
PCB-45	155	-			PCB-95	292	-		
PCB-46	64.3	-			PCB-96	5.17	-	J	
PCB-47	161	-			PCB-97	70.0	-		
PCB-48	142	-	C	75	PCB-98	ND	2.17	C	102
PCB-49	-	-	C043	43	PCB-99	103	-		
PCB-50	6.40	-	J		PCB-100	4.83	-	J	

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EPA Method 1668
PCBs

FAL ID: 12513-002-SA
Client ID: LDW-Y2-SC-ENR+AC-CB-SSWI
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-07-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	58.3	-		
PCB-102	-	-	C098	98	PCB-152	ND	2.13		
PCB-103	6.76	-	J		PCB-153	191	-		
PCB-104	703	-			PCB-154	9.31	-	J	
PCB-105	48.6	-			PCB-155	1110	-		
PCB-106	123	-	C	118	PCB-156	9.20	-	J	
PCB-107	10.4	-	C,J	108	PCB-157	5.12	-	J	
PCB-108	-	-	C107,J	107	PCB-158	15.4	-	C,J	160
PCB-109	ND	3.60			PCB-159	4.80	-	J	
PCB-110	205	-			PCB-160	-	-	C158,J	158
PCB-111	5.39	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083,J	83	PCB-162	-	-	C128	128
PCB-113	ND	3.74			PCB-163	-	-	C138	138/164
PCB-114	4.76	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.06		
PCB-117	-	-	C087	87/125	PCB-167	5.08	-	J	
PCB-118	-	-	C	106	PCB-168	ND	2.87		
PCB-119	7.60	-	J		PCB-169	ND	2.61		
PCB-120	ND	3.31			PCB-170	21.6	-		
PCB-121	1200	-			PCB-171	7.78	-	J	
PCB-122	ND	3.10			PCB-172	35.5	-		
PCB-123	4.61	-	J		PCB-173	ND	3.68		
PCB-124	8.57	-	J		PCB-174	32.3	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.23		
PCB-126	ND	3.58			PCB-176	8.34	-	J	
PCB-127	ND	3.14			PCB-177	20.8	-		
PCB-128	21.2	-	C	162	PCB-178	10.3	-	J	
PCB-129	9.96	-	J		PCB-179	19.5	-	J	
PCB-130	9.63	-	J		PCB-180	56.7	-		
PCB-131	6.62	-	C,J	133	PCB-181	ND	3.32		
PCB-132	52.3	-	C	161	PCB-182	44.6	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	28.2	-		
PCB-134	13.5	-	C,J	143	PCB-184	1360	-		
PCB-135	29.2	-			PCB-185	ND	3.27		
PCB-136	39.6	-			PCB-186	ND	2.29		
PCB-137	8.73	-	J		PCB-187	-	-	C182	182
PCB-138	147	-	C	163/164	PCB-188	ND	2.65		
PCB-139	190	-	C	149	PCB-189	ND	2.05		
PCB-140	3.96	-	J		PCB-190	ND	2.44		
PCB-141	30.7	-			PCB-191	ND	2.49		
PCB-142	3460	-			PCB-192	1040	-		
PCB-143	-	-	C134,J	134	PCB-193	ND	2.47		
PCB-144	13.1	-	J		PCB-194	7.62	-	J	
PCB-145	ND	1.92			PCB-195	ND	3.96		
PCB-146	37.1	-	C	165	PCB-196	13.0	-	C,J	203
PCB-147	6.87	-	J		PCB-197	17.2	-	J	
PCB-148	ND	2.92			PCB-198	ND	3.04		
PCB-149	-	-	C139	139	PCB-199	11.8	-	J	
PCB-150	ND	1.90			PCB-200	ND	2.35		

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EPA Method 1668
PCBs

FAL ID: 12513-002-SA
Client ID: LDW-Y2-SC-ENR+AC-CB-SSWI
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-07-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.32		
PCB-202	ND	2.53		
PCB-203	-	-	C196,J	196
PCB-204	2630	-		
PCB-205	ND	2.91		
PCB-206	ND	4.34		
PCB-207	11.1	-	J	
PCB-208	ND	3.59		
PCB-209	13.8	-	J	

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	82.3	5.00 - 145	
13C-PCB-3	85.5	5.00 - 145	
13C-PCB-4	88.0	5.00 - 145	
13C-PCB-15	96.2	5.00 - 145	
13C-PCB-19	88.8	5.00 - 145	
13C-PCB-37	91.8	5.00 - 145	
13C-PCB-54	72.0	5.00 - 145	
13C-PCB-77	87.6	10.0 - 145	
13C-PCB-81	88.2	10.0 - 145	
13C-PCB-104	86.3	10.0 - 145	
13C-PCB-105	95.8	10.0 - 145	
13C-PCB-114	96.0	10.0 - 145	
13C-PCB-118	93.5	10.0 - 145	
13C-PCB-123	97.3	10.0 - 145	
13C-PCB-126	92.8	10.0 - 145	
13C-PCB-155	90.1	10.0 - 145	
13C-PCB-156	87.8	10.0 - 145	
13C-PCB-157	90.6	10.0 - 145	
13C-PCB-167	89.5	10.0 - 145	
13C-PCB-169	96.2	10.0 - 145	
13C-PCB-188	87.6	10.0 - 145	
13C-PCB-189	107	10.0 - 145	
13C-PCB-202	89.5	10.0 - 145	
13C-PCB-205	89.9	10.0 - 145	
13C-PCB-206	85.6	10.0 - 145	
13C-PCB-208	80.0	10.0 - 145	
13C-PCB-209	80.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	95.6	5.00 - 145	
13C-PCB-111	90.2	10.0 - 145	
13C-PCB-178	99.6	10.0 - 145	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Coelution
D	Presence of Diphenyl Ethers
DNQ	Analyte concentration is below calibration range
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected at Detection Limit Level
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]

Date: 8/9/2019

Reviewed By: DPV

Date: 8/9/2019

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EPA Method 1668
PCBs

FAL ID: 12513-003-SA
Client ID: LDW-Y2-SC-ENR+AC-CC-SSWI
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-07-2019
Total Conc: 38200

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	5.43	-	J		PCB-51	48.4	-		
PCB-2	ND	2.53			PCB-52	649	-	C	69
PCB-3	ND	2.69			PCB-53	153	-		
PCB-4	143	-			PCB-54	5.43	-	J	
PCB-5	ND	6.37			PCB-55	36.1	-		
PCB-6	84.5	-			PCB-56	213	-	C	60
PCB-7	12.3	-	J		PCB-57	5.61	-	J	
PCB-8	376	-			PCB-58	ND	3.36		
PCB-9	27.0	-			PCB-59	-	-	C042	42
PCB-10	13.0	-	J		PCB-60	-	-	C056	56
PCB-11	41.0	-			PCB-61	410	-	C	70
PCB-12	8.48	-	J		PCB-62	ND	3.26		
PCB-13	8.13	-	J		PCB-63	18.6	-	J	
PCB-14	374	-			PCB-64	-	-	C041	41/71/72
PCB-15	113	-			PCB-65	ND	3.38		
PCB-16	346	-			PCB-66	358	-	C	76
PCB-17	446	-			PCB-67	21.8	-		
PCB-18	1090	-			PCB-68	10.5	-	J	
PCB-19	136	-			PCB-69	-	-	C052	52
PCB-20	579	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	296	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.12			PCB-73	18.3	-	J	
PCB-24	66.9	-			PCB-74	194	-		
PCB-25	95.5	-			PCB-75	-	-	C048	48
PCB-26	163	-			PCB-76	-	-	C066	66
PCB-27	37.6	-			PCB-77	26.5	-		
PCB-28	777	-			PCB-78	1330	-		
PCB-29	7.52	-	J		PCB-79	3.81	-	J	
PCB-30	ND	2.49			PCB-80	ND	2.95		
PCB-31	833	-			PCB-81	16.3	-	J	
PCB-32	339	-			PCB-82	35.0	-		
PCB-33	-	-	C020	20/21	PCB-83	14.5	-	C,J	112
PCB-34	6.23	-	J		PCB-84	163	-	C	92
PCB-35	ND	5.40			PCB-85	43.6	-	C	116
PCB-36	493	-			PCB-86	8.66	-	J	
PCB-37	139	-			PCB-87	105	-	C	117/125
PCB-38	ND	4.77			PCB-88	ND	1.88	C	91
PCB-39	ND	4.78			PCB-89	7.29	-	J	
PCB-40	126	-			PCB-90	315	-	C	101
PCB-41	505	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	229	-	C	59	PCB-92	-	-	C084	84
PCB-43	510	-	C	49	PCB-93	ND	1.97		
PCB-44	567	-			PCB-94	ND	2.13		
PCB-45	165	-			PCB-95	352	-		
PCB-46	70.7	-			PCB-96	5.30	-	J	
PCB-47	176	-			PCB-97	86.9	-		
PCB-48	148	-	C	75	PCB-98	ND	2.09	C	102
PCB-49	-	-	C043	43	PCB-99	127	-		
PCB-50	7.34	-	J		PCB-100	8.31	-	J	

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EPA Method 1668
PCBs

FAL ID: 12513-003-SA
Client ID: LDW-Y2-SC-ENR+AC-CC-SSWI
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-07-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	68.5	-		
PCB-102	-	-	C098	98	PCB-152	ND	2.47		
PCB-103	7.76	-	J		PCB-153	248	-		
PCB-104	1160	-			PCB-154	14.0	-	J	
PCB-105	58.7	-			PCB-155	1980	-		
PCB-106	165	-	C	118	PCB-156	14.1	-	J	
PCB-107	5.39	-	C,J	108	PCB-157	5.98	-	J	
PCB-108	-	-	C107,J	107	PCB-158	21.3	-	C	160
PCB-109	ND	4.98			PCB-159	5.94	-	J	
PCB-110	261	-			PCB-160	-	-	C158	158
PCB-111	6.35	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083,J	83	PCB-162	-	-	C128	128
PCB-113	ND	5.18			PCB-163	-	-	C138	138/164
PCB-114	5.38	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.05		
PCB-117	-	-	C087	87/125	PCB-167	6.99	-	J	
PCB-118	-	-	C	106	PCB-168	ND	2.86		
PCB-119	9.32	-	J		PCB-169	ND	3.05		
PCB-120	ND	4.58			PCB-170	26.0	-		
PCB-121	2300	-			PCB-171	10.5	-	J	
PCB-122	ND	3.00			PCB-172	60.6	-		
PCB-123	5.93	-	J		PCB-173	ND	3.74		
PCB-124	9.51	-	J		PCB-174	38.9	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.28		
PCB-126	ND	3.45			PCB-176	7.24	-	J	
PCB-127	ND	3.05			PCB-177	24.9	-		
PCB-128	23.1	-	C	162	PCB-178	12.4	-	J	
PCB-129	10.5	-	J		PCB-179	21.6	-		
PCB-130	13.4	-	J		PCB-180	71.0	-		
PCB-131	9.30	-	C,J	133	PCB-181	ND	3.38		
PCB-132	74.3	-	C	161	PCB-182	51.0	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	27.3	-		
PCB-134	20.1	-	C	143	PCB-184	2580	-		
PCB-135	40.5	-			PCB-185	ND	3.33		
PCB-136	45.5	-			PCB-186	ND	2.33		
PCB-137	9.84	-	J		PCB-187	-	-	C182	182
PCB-138	203	-	C	163/164	PCB-188	ND	2.84		
PCB-139	219	-	C	149	PCB-189	ND	1.92		
PCB-140	ND	3.61			PCB-190	ND	2.49		
PCB-141	40.1	-			PCB-191	ND	2.53		
PCB-142	6660	-			PCB-192	1960	-		
PCB-143	-	-	C134	134	PCB-193	ND	2.51		
PCB-144	17.3	-	J		PCB-194	8.15	-	J	
PCB-145	ND	2.23			PCB-195	ND	4.23		
PCB-146	59.6	-	C	165	PCB-196	13.1	-	C,J	203
PCB-147	4.77	-	J		PCB-197	37.2	-		
PCB-148	ND	3.39			PCB-198	ND	3.00		
PCB-149	-	-	C139	139	PCB-199	14.0	-	J	
PCB-150	ND	2.20			PCB-200	ND	2.32		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12513-003-SA
Client ID: LDW-Y2-SC-ENR+AC-CC-SSWI
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-07-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.30		
PCB-202	ND	2.49		
PCB-203	-	-	C196,J	196
PCB-204	5060	-		
PCB-205	ND	3.10		
PCB-206	ND	4.13		
PCB-207	20.7	-		
PCB-208	ND	3.34		
PCB-209	24.9	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	83.6	5.00 - 145	
13C-PCB-3	87.5	5.00 - 145	
13C-PCB-4	90.9	5.00 - 145	
13C-PCB-15	94.9	5.00 - 145	
13C-PCB-19	89.8	5.00 - 145	
13C-PCB-37	92.3	5.00 - 145	
13C-PCB-54	79.2	5.00 - 145	
13C-PCB-77	89.8	10.0 - 145	
13C-PCB-81	90.2	10.0 - 145	
13C-PCB-104	94.3	10.0 - 145	
13C-PCB-105	92.2	10.0 - 145	
13C-PCB-114	94.9	10.0 - 145	
13C-PCB-118	94.9	10.0 - 145	
13C-PCB-123	95.9	10.0 - 145	
13C-PCB-126	94.1	10.0 - 145	
13C-PCB-155	93.0	10.0 - 145	
13C-PCB-156	84.0	10.0 - 145	
13C-PCB-157	88.2	10.0 - 145	
13C-PCB-167	88.2	10.0 - 145	
13C-PCB-169	90.9	10.0 - 145	
13C-PCB-188	87.2	10.0 - 145	
13C-PCB-189	99.0	10.0 - 145	
13C-PCB-202	89.2	10.0 - 145	
13C-PCB-205	88.7	10.0 - 145	
13C-PCB-206	85.5	10.0 - 145	
13C-PCB-208	78.7	10.0 - 145	
13C-PCB-209	80.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	105	5.00 - 145	
13C-PCB-111	92.9	10.0 - 145	
13C-PCB-178	104	10.0 - 145	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Coelution
D	Presence of Diphenyl Ethers
DNQ	Analyte concentration is below calibration range
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected at Detection Limit Level
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]

Date: 8/9/2019

Reviewed By: DPV

Date: 8/9/2019

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EPA Method 1668
PCBs

FAL ID: 12513-008-SA
Client ID: LDW-Y2-SC-ENR-CC-SSWI
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB5MS
Units: pg/L

Acquired: 08-07-2019
Total Conc: 24500

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	6.80	-	J		PCB-51	43.9	-		
PCB-2	ND	2.21			PCB-52	592	-	C	69
PCB-3	ND	2.39			PCB-53	139	-		
PCB-4	176	-			PCB-54	4.23	-	J	
PCB-5	ND	8.48			PCB-55	22.6	-		
PCB-6	87.8	-			PCB-56	230	-	C	60
PCB-7	25.7	-			PCB-57	ND	3.39		
PCB-8	401	-			PCB-58	ND	3.21		
PCB-9	25.7	-			PCB-59	-	-	C042	42
PCB-10	16.9	-	J		PCB-60	-	-	C056	56
PCB-11	ND	9.41			PCB-61	367	-	C	70
PCB-12	ND	9.20			PCB-62	ND	3.11		
PCB-13	ND	9.62			PCB-63	14.5	-	J	
PCB-14	92.3	-			PCB-64	-	-	C041	41/71/72
PCB-15	92.9	-			PCB-65	ND	3.23		
PCB-16	286	-			PCB-66	321	-	C	76
PCB-17	391	-			PCB-67	14.4	-	J	
PCB-18	959	-			PCB-68	ND	3.05		
PCB-19	137	-			PCB-69	-	-	C052	52
PCB-20	469	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	241	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	2.87			PCB-73	11.9	-	J	
PCB-24	52.5	-			PCB-74	162	-		
PCB-25	85.8	-			PCB-75	-	-	C048	48
PCB-26	137	-			PCB-76	-	-	C066	66
PCB-27	43.3	-			PCB-77	23.0	-		
PCB-28	709	-			PCB-78	561	-		
PCB-29	6.96	-	J		PCB-79	4.70	-	J	
PCB-30	ND	2.27			PCB-80	ND	2.82		
PCB-31	641	-			PCB-81	13.2	-	J	
PCB-32	311	-			PCB-82	30.8	-		
PCB-33	-	-	C020	20/21	PCB-83	15.6	-	C,J	112
PCB-34	6.38	-	J		PCB-84	181	-	C	92
PCB-35	7.96	-	J		PCB-85	41.0	-	C	116
PCB-36	166	-			PCB-86	ND	5.28		
PCB-37	108	-			PCB-87	104	-	C	117/125
PCB-38	ND	3.32			PCB-88	ND	1.23	C	91
PCB-39	ND	3.33			PCB-89	9.07	-	J	
PCB-40	102	-			PCB-90	355	-	C	101
PCB-41	434	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	205	-	C	59	PCB-92	-	-	C084	84
PCB-43	464	-	C	49	PCB-93	ND	1.30		
PCB-44	492	-			PCB-94	ND	1.40		
PCB-45	145	-			PCB-95	373	-		
PCB-46	57.7	-			PCB-96	5.39	-	J	
PCB-47	161	-			PCB-97	91.1	-		
PCB-48	138	-	C	75	PCB-98	ND	1.37	C	102
PCB-49	-	-	C043	43	PCB-99	142	-		
PCB-50	4.64	-	J		PCB-100	6.58	-	J	

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EPA Method 1668
PCBs

FAL ID: 12513-008-SA
Client ID: LDW-Y2-SC-ENR-CC-SSWI
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB5MS
Units: pg/L

Acquired: 08-07-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	79.7	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.62		
PCB-103	9.58	-	J		PCB-153	231	-		
PCB-104	583	-			PCB-154	10.5	-	J	
PCB-105	55.6	-			PCB-155	1030	-		
PCB-106	163	-	C	118	PCB-156	13.7	-	J	
PCB-107	4.79	-	C,J	108	PCB-157	ND	3.56		
PCB-108	-	-	C107,J	107	PCB-158	20.0	-	C	160
PCB-109	ND	4.03			PCB-159	6.09	-	J	
PCB-110	273	-			PCB-160	-	-	C158	158
PCB-111	6.75	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083,J	83	PCB-162	-	-	C128	128
PCB-113	ND	4.19			PCB-163	-	-	C138	138/164
PCB-114	5.24	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.28		
PCB-117	-	-	C087	87/125	PCB-167	6.65	-	J	
PCB-118	-	-	C	106	PCB-168	ND	3.07		
PCB-119	11.3	-	J		PCB-169	ND	2.79		
PCB-120	ND	3.70			PCB-170	21.6	-		
PCB-121	1060	-			PCB-171	8.43	-	J	
PCB-122	ND	2.92			PCB-172	31.1	-		
PCB-123	5.25	-	J		PCB-173	ND	3.45		
PCB-124	9.63	-	J		PCB-174	37.2	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.02		
PCB-126	ND	3.36			PCB-176	7.86	-	J	
PCB-127	ND	2.96			PCB-177	21.6	-		
PCB-128	23.8	-	C	162	PCB-178	11.2	-	J	
PCB-129	8.82	-	J		PCB-179	24.4	-		
PCB-130	13.8	-	J		PCB-180	65.2	-		
PCB-131	8.88	-	C,J	133	PCB-181	ND	3.11		
PCB-132	75.8	-	C	161	PCB-182	51.1	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	28.1	-		
PCB-134	19.3	-	C,J	143	PCB-184	1260	-		
PCB-135	44.7	-			PCB-185	ND	3.06		
PCB-136	51.1	-			PCB-186	ND	2.15		
PCB-137	9.90	-	J		PCB-187	-	-	C182	182
PCB-138	189	-	C	163/164	PCB-188	ND	2.44		
PCB-139	244	-	C	149	PCB-189	ND	1.95		
PCB-140	ND	3.87			PCB-190	ND	2.29		
PCB-141	40.0	-			PCB-191	ND	2.33		
PCB-142	3210	-			PCB-192	922	-		
PCB-143	-	-	C134,J	134	PCB-193	ND	2.32		
PCB-144	16.3	-	J		PCB-194	9.36	-	J	
PCB-145	ND	1.46			PCB-195	4.15	-	J	
PCB-146	54.6	-	C	165	PCB-196	15.4	-	C,J	203
PCB-147	7.14	-	J		PCB-197	ND	1.98		
PCB-148	ND	2.22			PCB-198	ND	2.67		
PCB-149	-	-	C139	139	PCB-199	11.8	-	J	
PCB-150	ND	1.44			PCB-200	ND	2.07		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12513-008-SA
Client ID: LDW-Y2-SC-ENR-CC-SSWI
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB5MS
Units: pg/L

Acquired: 08-07-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.04		
PCB-202	ND	2.22		
PCB-203	-	-	C196,J	196
PCB-204	2590	-		
PCB-205	ND	1.48		
PCB-206	3.53	-	J	
PCB-207	10.7	-	J	
PCB-208	ND	1.53		
PCB-209	12.0	-	J	

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	89.0	5.00 - 145	
13C-PCB-3	94.3	5.00 - 145	
13C-PCB-4	98.7	5.00 - 145	
13C-PCB-15	104	5.00 - 145	
13C-PCB-19	96.1	5.00 - 145	
13C-PCB-37	103	5.00 - 145	
13C-PCB-54	90.5	5.00 - 145	
13C-PCB-77	95.2	10.0 - 145	
13C-PCB-81	96.4	10.0 - 145	
13C-PCB-104	99.6	10.0 - 145	
13C-PCB-105	101	10.0 - 145	
13C-PCB-114	105	10.0 - 145	
13C-PCB-118	103	10.0 - 145	
13C-PCB-123	105	10.0 - 145	
13C-PCB-126	98.7	10.0 - 145	
13C-PCB-155	103	10.0 - 145	
13C-PCB-156	87.0	10.0 - 145	
13C-PCB-157	95.1	10.0 - 145	
13C-PCB-167	93.9	10.0 - 145	
13C-PCB-169	98.0	10.0 - 145	
13C-PCB-188	96.2	10.0 - 145	
13C-PCB-189	114	10.0 - 145	
13C-PCB-202	92.4	10.0 - 145	
13C-PCB-205	94.6	10.0 - 145	
13C-PCB-206	87.4	10.0 - 145	
13C-PCB-208	83.4	10.0 - 145	
13C-PCB-209	79.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	116	5.00 - 145	
13C-PCB-111	96.2	10.0 - 145	
13C-PCB-178	101	10.0 - 145	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Coelution
D	Presence of Diphenyl Ethers
DNQ	Analyte concentration is below calibration range
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected at Detection Limit Level
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]

Date: 9/24/2019

Reviewed By: DPV

Date: 9/24/2019

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12513-009-SA
Client ID: LDW-Y2-SC-ENR-CD-SSWI
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-07-2019
Total Conc: 74300

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	17.8	-	J		PCB-51	123	-		
PCB-2	ND	2.23			PCB-52	1500	-	C	69
PCB-3	6.30	-	J		PCB-53	387	-		
PCB-4	417	-			PCB-54	11.2	-	J	
PCB-5	ND	9.47			PCB-55	70.5	-		
PCB-6	210	-			PCB-56	603	-	C	60
PCB-7	41.2	-			PCB-57	9.00	-	J	
PCB-8	1010	-			PCB-58	ND	4.82		
PCB-9	58.6	-			PCB-59	-	-	C042	42
PCB-10	30.4	-			PCB-60	-	-	C056	56
PCB-11	66.4	-			PCB-61	1030	-	C	70
PCB-12	23.9	-			PCB-62	ND	4.68		
PCB-13	16.9	-	J		PCB-63	39.5	-		
PCB-14	513	-			PCB-64	-	-	C041	41/71/72
PCB-15	290	-			PCB-65	ND	4.85		
PCB-16	706	-			PCB-66	911	-	C	76
PCB-17	991	-			PCB-67	43.3	-		
PCB-18	2330	-			PCB-68	22.6	-		
PCB-19	374	-			PCB-69	-	-	C052	52
PCB-20	1200	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	636	-			PCB-72	-	-	C041	41/64/71
PCB-23	4.44	-	J		PCB-73	33.2	-		
PCB-24	145	-			PCB-74	464	-		
PCB-25	217	-			PCB-75	-	-	C048	48
PCB-26	368	-			PCB-76	-	-	C066	66
PCB-27	117	-			PCB-77	56.0	-		
PCB-28	1940	-			PCB-78	2130	-		
PCB-29	16.9	-	J		PCB-79	11.4	-	J	
PCB-30	ND	2.30			PCB-80	ND	4.24		
PCB-31	1650	-			PCB-81	27.6	-		
PCB-32	829	-			PCB-82	89.8	-		
PCB-33	-	-	C020	20/21	PCB-83	39.9	-	C	112
PCB-34	13.6	-	J		PCB-84	445	-	C	92
PCB-35	20.6	-			PCB-85	115	-	C	116
PCB-36	660	-			PCB-86	11.8	-	J	
PCB-37	345	-			PCB-87	280	-	C	117/125
PCB-38	8.49	-	J		PCB-88	ND	1.72	C	91
PCB-39	6.61	-	J		PCB-89	22.5	-		
PCB-40	301	-			PCB-90	908	-	C	101
PCB-41	1190	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	564	-	C	59	PCB-92	-	-	C084	84
PCB-43	1220	-	C	49	PCB-93	ND	1.81		
PCB-44	1320	-			PCB-94	7.36	-	J	
PCB-45	407	-			PCB-95	1020	-		
PCB-46	165	-			PCB-96	13.7	-	J	
PCB-47	407	-			PCB-97	252	-		
PCB-48	343	-	C	75	PCB-98	ND	1.92	C	102
PCB-49	-	-	C043	43	PCB-99	368	-		
PCB-50	13.4	-	J		PCB-100	15.2	-	J	

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EPA Method 1668
PCBs

FAL ID: 12513-009-SA
Client ID: LDW-Y2-SC-ENR-CD-SSWI
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-07-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	212	-		
PCB-102	-	-	C098	98	PCB-152	ND	2.07		
PCB-103	20.7	-			PCB-153	672	-		
PCB-104	1690	-			PCB-154	25.9	-		
PCB-105	171	-			PCB-155	3170	-		
PCB-106	467	-	C	118	PCB-156	36.8	-		
PCB-107	36.3	-	C	108	PCB-157	8.50	-	J	
PCB-108	-	-	C107	107	PCB-158	57.0	-	C	160
PCB-109	ND	4.20			PCB-159	11.8	-	J	
PCB-110	725	-			PCB-160	-	-	C158	158
PCB-111	12.3	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.37			PCB-163	-	-	C138	138/164
PCB-114	10.5	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.90		
PCB-117	-	-	C087	87/125	PCB-167	17.3	-	J	
PCB-118	-	-	C	106	PCB-168	ND	3.66		
PCB-119	24.7	-			PCB-169	ND	4.07		
PCB-120	ND	3.86			PCB-170	71.2	-		
PCB-121	3650	-			PCB-171	29.0	-		
PCB-122	7.50	-	J		PCB-172	137	-		
PCB-123	11.8	-	J		PCB-173	ND	3.90		
PCB-124	26.6	-			PCB-174	115	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.42		
PCB-126	ND	4.12			PCB-176	21.5	-		
PCB-127	ND	3.44			PCB-177	62.9	-		
PCB-128	73.6	-	C	162	PCB-178	29.6	-		
PCB-129	24.6	-			PCB-179	68.7	-		
PCB-130	41.3	-			PCB-180	19.8	-	J	
PCB-131	17.1	-	C,J	133	PCB-181	ND	3.52		
PCB-132	210	-	C	161	PCB-182	148	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	76.8	-		
PCB-134	49.2	-	C	143	PCB-184	4420	-		
PCB-135	125	-			PCB-185	ND	3.46		
PCB-136	146	-			PCB-186	ND	2.43		
PCB-137	17.9	-	J		PCB-187	-	-	C182	182
PCB-138	589	-	C	163/164	PCB-188	6.46	-	J	
PCB-139	705	-	C	149	PCB-189	ND	2.19		
PCB-140	8.16	-	J		PCB-190	ND	2.59		
PCB-141	112	-			PCB-191	ND	2.64		
PCB-142	11400	-			PCB-192	3360	-		
PCB-143	-	-	C134	134	PCB-193	ND	2.62		
PCB-144	48.0	-			PCB-194	25.0	-		
PCB-145	ND	1.87			PCB-195	12.7	-	J	
PCB-146	123	-	C	165	PCB-196	34.1	-	C	203
PCB-147	18.0	-	J		PCB-197	50.6	-		
PCB-148	ND	2.84			PCB-198	ND	2.13		
PCB-149	-	-	C139	139	PCB-199	31.1	-		
PCB-150	ND	1.84			PCB-200	ND	1.64		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12513-009-SA
Client ID: LDW-Y2-SC-ENR-CD-SSWI
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-07-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	1.63		
PCB-202	10.9	-	J	
PCB-203	-	-	C196	196
PCB-204	8480	-		
PCB-205	ND	2.86		
PCB-206	7.34	-	J	
PCB-207	34.8	-		
PCB-208	4.00	-	J	
PCB-209	43.0	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	84.1	5.00 - 145	
13C-PCB-3	88.8	5.00 - 145	
13C-PCB-4	90.5	5.00 - 145	
13C-PCB-15	97.3	5.00 - 145	
13C-PCB-19	90.2	5.00 - 145	
13C-PCB-37	101	5.00 - 145	
13C-PCB-54	86.2	5.00 - 145	
13C-PCB-77	93.2	10.0 - 145	
13C-PCB-81	97.6	10.0 - 145	
13C-PCB-104	95.4	10.0 - 145	
13C-PCB-105	99.6	10.0 - 145	
13C-PCB-114	107	10.0 - 145	
13C-PCB-118	105	10.0 - 145	
13C-PCB-123	107	10.0 - 145	
13C-PCB-126	95.0	10.0 - 145	
13C-PCB-155	92.6	10.0 - 145	
13C-PCB-156	86.3	10.0 - 145	
13C-PCB-157	91.3	10.0 - 145	
13C-PCB-167	91.4	10.0 - 145	
13C-PCB-169	84.3	10.0 - 145	
13C-PCB-188	95.2	10.0 - 145	
13C-PCB-189	91.6	10.0 - 145	
13C-PCB-202	94.7	10.0 - 145	
13C-PCB-205	92.7	10.0 - 145	
13C-PCB-206	88.0	10.0 - 145	
13C-PCB-208	87.0	10.0 - 145	
13C-PCB-209	82.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	111	5.00 - 145	
13C-PCB-111	94.3	10.0 - 145	
13C-PCB-178	101	10.0 - 145	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Coelution
D	Presence of Diphenyl Ethers
DNQ	Analyte concentration is below calibration range
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected at Detection Limit Level
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]

Date: 8/9/2019

Reviewed By: DPV

Date: 8/9/2019

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EPA Method 1668
PCBs

FAL ID: 12513-010-SA
Client ID: LDW-Y2-SC-ENR-CE-SSWI
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-07-2019
Total Conc: 85900

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	23.6	-			PCB-51	133	-		
PCB-2	ND	2.37			PCB-52	1520	-	C	69
PCB-3	7.81	-	J		PCB-53	428	-		
PCB-4	517	-			PCB-54	13.0	-	J	
PCB-5	ND	8.99			PCB-55	74.5	-		
PCB-6	262	-			PCB-56	628	-	C	60
PCB-7	47.7	-			PCB-57	9.75	-	J	
PCB-8	1210	-			PCB-58	ND	3.32		
PCB-9	66.5	-			PCB-59	-	-	C042	42
PCB-10	39.1	-			PCB-60	-	-	C056	56
PCB-11	80.6	-			PCB-61	1040	-	C	70
PCB-12	31.4	-			PCB-62	ND	3.22		
PCB-13	23.7	-			PCB-63	40.4	-		
PCB-14	728	-			PCB-64	-	-	C041	41/71/72
PCB-15	424	-			PCB-65	ND	3.34		
PCB-16	986	-			PCB-66	936	-	C	76
PCB-17	1300	-			PCB-67	5.24	-	J	
PCB-18	3300	-			PCB-68	22.4	-		
PCB-19	500	-			PCB-69	-	-	C052	52
PCB-20	1560	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	812	-			PCB-72	-	-	C041	41/64/71
PCB-23	4.24	-	J		PCB-73	36.9	-		
PCB-24	195	-			PCB-74	478	-		
PCB-25	264	-			PCB-75	-	-	C048	48
PCB-26	454	-			PCB-76	-	-	C066	66
PCB-27	175	-			PCB-77	70.4	-		
PCB-28	2320	-			PCB-78	2550	-		
PCB-29	20.1	-			PCB-79	10.3	-	J	
PCB-30	ND	2.47			PCB-80	ND	2.92		
PCB-31	2070	-			PCB-81	33.3	-		
PCB-32	1090	-			PCB-82	84.7	-		
PCB-33	-	-	C020	20/21	PCB-83	37.9	-	C	112
PCB-34	14.8	-	J		PCB-84	441	-	C	92
PCB-35	28.6	-			PCB-85	110	-	C	116
PCB-36	861	-			PCB-86	10.3	-	J	
PCB-37	407	-			PCB-87	292	-	C	117/125
PCB-38	9.57	-	J		PCB-88	ND	1.72	C	91
PCB-39	5.77	-	J		PCB-89	17.3	-	J	
PCB-40	311	-			PCB-90	864	-	C	101
PCB-41	1220	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	567	-	C	59	PCB-92	-	-	C084	84
PCB-43	1240	-	C	49	PCB-93	ND	1.81		
PCB-44	1360	-			PCB-94	8.90	-	J	
PCB-45	447	-			PCB-95	1110	-	-	
PCB-46	195	-			PCB-96	15.9	-	J	
PCB-47	412	-			PCB-97	261	-		
PCB-48	364	-	C	75	PCB-98	ND	1.92	C	102
PCB-49	-	-	C043	43	PCB-99	367	-		
PCB-50	15.3	-	J		PCB-100	18.3	-	J	

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EPA Method 1668
PCBs

FAL ID: 12513-010-SA
Client ID: LDW-Y2-SC-ENR-CE-SSWI
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-07-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	224	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.70		
PCB-103	26.2	-			PCB-153	676	-		
PCB-104	2370	-			PCB-154	27.6	-		
PCB-105	165	-			PCB-155	4000	-		
PCB-106	494	-	C	118	PCB-156	40.4	-		
PCB-107	36.6	-	C	108	PCB-157	10.6	-	J	
PCB-108	-	-	C107	107	PCB-158	57.4	-	C	160
PCB-109	ND	4.50			PCB-159	13.3	-	J	
PCB-110	744	-			PCB-160	-	-	C158	158
PCB-111	17.7	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.68			PCB-163	-	-	C138	138/164
PCB-114	15.2	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.96		
PCB-117	-	-	C087	87/125	PCB-167	18.6	-	J	
PCB-118	-	-	C	106	PCB-168	ND	3.71		
PCB-119	24.2	-			PCB-169	ND	3.94		
PCB-120	ND	4.13			PCB-170	75.6	-		
PCB-121	4520	-			PCB-171	29.6	-		
PCB-122	ND	4.18			PCB-172	137	-		
PCB-123	11.9	-	J		PCB-173	ND	3.82		
PCB-124	25.9	-			PCB-174	108	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.35		
PCB-126	ND	5.00			PCB-176	23.0	-		
PCB-127	ND	4.24			PCB-177	63.8	-		
PCB-128	71.8	-	C	162	PCB-178	30.9	-		
PCB-129	26.6	-			PCB-179	70.0	-		
PCB-130	37.0	-			PCB-180	20.4	-		
PCB-131	19.0	-	C,J	133	PCB-181	ND	3.45		
PCB-132	209	-	C	161	PCB-182	149	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	78.4	-		
PCB-134	49.6	-	C	143	PCB-184	4690	-		
PCB-135	131	-			PCB-185	ND	3.40		
PCB-136	153	-			PCB-186	ND	2.38		
PCB-137	26.9	-			PCB-187	-	-	C182	182
PCB-138	600	-	C	163/164	PCB-188	8.07	-	J	
PCB-139	689	-	C	149	PCB-189	ND	1.89		
PCB-140	11.5	-	J		PCB-190	ND	2.54		
PCB-141	116	-			PCB-191	ND	2.58		
PCB-142	13100	-			PCB-192	3660	-		
PCB-143	-	-	C134	134	PCB-193	ND	2.57		
PCB-144	47.5	-			PCB-194	27.3	-		
PCB-145	ND	1.54			PCB-195	10.8	-	J	
PCB-146	141	-	C	165	PCB-196	39.5	-	C	203
PCB-147	16.9	-	J		PCB-197	55.3	-		
PCB-148	ND	2.33			PCB-198	ND	2.64		
PCB-149	-	-	C139	139	PCB-199	39.9	-		
PCB-150	ND	1.51			PCB-200	ND	2.04		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12513-010-SA
Client ID: LDW-Y2-SC-ENR-CE-SSWI
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-07-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.02		
PCB-202	10.7	-	J	
PCB-203	-	-	C196	196
PCB-204	9890	-		
PCB-205	ND	2.74		
PCB-206	7.77	-	J	
PCB-207	42.9	-		
PCB-208	4.24	-	J	
PCB-209	48.2	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	83.9	5.00 - 145	
13C-PCB-3	85.8	5.00 - 145	
13C-PCB-4	94.8	5.00 - 145	
13C-PCB-15	96.9	5.00 - 145	
13C-PCB-19	89.6	5.00 - 145	
13C-PCB-37	103	5.00 - 145	
13C-PCB-54	88.7	5.00 - 145	
13C-PCB-77	97.1	10.0 - 145	
13C-PCB-81	105	10.0 - 145	
13C-PCB-104	97.4	10.0 - 145	
13C-PCB-105	100	10.0 - 145	
13C-PCB-114	104	10.0 - 145	
13C-PCB-118	101	10.0 - 145	
13C-PCB-123	104	10.0 - 145	
13C-PCB-126	98.2	10.0 - 145	
13C-PCB-155	96.3	10.0 - 145	
13C-PCB-156	84.6	10.0 - 145	
13C-PCB-157	90.2	10.0 - 145	
13C-PCB-167	89.0	10.0 - 145	
13C-PCB-169	88.8	10.0 - 145	
13C-PCB-188	89.9	10.0 - 145	
13C-PCB-189	103	10.0 - 145	
13C-PCB-202	89.5	10.0 - 145	
13C-PCB-205	89.8	10.0 - 145	
13C-PCB-206	84.2	10.0 - 145	
13C-PCB-208	80.4	10.0 - 145	
13C-PCB-209	76.6	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	107	5.00 - 145	
13C-PCB-111	92.5	10.0 - 145	
13C-PCB-178	94.5	10.0 - 145	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Coelution
D	Presence of Diphenyl Ethers
DNQ	Analyte concentration is below calibration range
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected at Detection Limit Level
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]

Date: 8/9/2019

Reviewed By: DPV

Date: 8/9/2019

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EPA Method 1668
PCBs

FAL ID: 12513-011-SA
Client ID: LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI
Matrix: Solvent
Batch No: X4998

Date Extracted: 08-06-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-7-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-07-2019
Total Conc: 39400

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	5.30	-	J		PCB-51	58.0	-		
PCB-2	ND	2.30			PCB-52	771	-	C	69
PCB-3	ND	2.54			PCB-53	176	-		
PCB-4	97.5	-			PCB-54	5.46	-	J	
PCB-5	ND	9.04			PCB-55	38.5	-		
PCB-6	72.2	-			PCB-56	328	-	C	60
PCB-7	ND	8.86			PCB-57	5.67	-	J	
PCB-8	281	-			PCB-58	ND	2.44		
PCB-9	ND	8.63			PCB-59	-	-	C042	42
PCB-10	ND	9.46			PCB-60	-	-	C056	56
PCB-11	34.2	-			PCB-61	573	-	C	70
PCB-12	ND	9.80			PCB-62	ND	2.37		
PCB-13	ND	10.3			PCB-63	19.8	-	J	
PCB-14	324	-			PCB-64	-	-	C041	41/71/72
PCB-15	101	-			PCB-65	ND	2.45		
PCB-16	356	-			PCB-66	496	-	C	76
PCB-17	391	-			PCB-67	23.5	-		
PCB-18	895	-			PCB-68	10.8	-	J	
PCB-19	132	-			PCB-69	-	-	C052	52
PCB-20	498	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	267	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	2.84			PCB-73	21.0	-		
PCB-24	67.0	-			PCB-74	257	-		
PCB-25	88.7	-			PCB-75	-	-	C048	48
PCB-26	142	-			PCB-76	-	-	C066	66
PCB-27	36.2	-			PCB-77	38.8	-		
PCB-28	738	-			PCB-78	1230	-		
PCB-29	6.17	-	J		PCB-79	6.70	-	J	
PCB-30	ND	2.90			PCB-80	ND	2.15		
PCB-31	647	-			PCB-81	13.9	-	J	
PCB-32	316	-			PCB-82	45.0	-		
PCB-33	-	-	C020	20/21	PCB-83	21.9	-	C	112
PCB-34	4.02	-	J		PCB-84	220	-	C	92
PCB-35	12.7	-	J		PCB-85	56.2	-	C	116
PCB-36	425	-			PCB-86	ND	5.28		
PCB-37	156	-			PCB-87	131	-	C	117/125
PCB-38	ND	3.29			PCB-88	ND	1.54	C	91
PCB-39	ND	3.30			PCB-89	10.6	-	J	
PCB-40	156	-			PCB-90	437	-	C	101
PCB-41	623	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	303	-	C	59	PCB-92	-	-	C084	84
PCB-43	645	-	C	49	PCB-93	ND	1.62		
PCB-44	707	-			PCB-94	ND	1.74		
PCB-45	189	-			PCB-95	512	-		
PCB-46	77.0	-			PCB-96	7.05	-	J	
PCB-47	237	-			PCB-97	123	-		
PCB-48	168	-	C	75	PCB-98	ND	1.72	C	102
PCB-49	-	-	C043	43	PCB-99	180	-		
PCB-50	7.04	-	J		PCB-100	9.68	-	J	

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EPA Method 1668
PCBs

FAL ID: 12513-011-SA | Date Extracted: 08-06-2019 | ICal: DAILY209FAL4-8-7-19 | Acquired: 08-07-2019
Client ID: LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI | Date Received: 06-28-2019 | GC Column: DB1MS
Matrix: Solvent | Amount: 1.00 sample | Units: pg/sample
Batch No: X4998

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	115	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.89		
PCB-103	14.8	-	J		PCB-153	365	-		
PCB-104	1310	-			PCB-154	16.2	-	J	
PCB-105	88.3	-			PCB-155	2120	-		
PCB-106	229	-	C	118	PCB-156	20.8	-		
PCB-107	18.7	-	C,J	108	PCB-157	5.50	-	J	
PCB-108	-	-	C107,J	107	PCB-158	29.6	-	C	160
PCB-109	ND	4.03			PCB-159	7.23	-	J	
PCB-110	354	-			PCB-160	-	-	C158	158
PCB-111	8.76	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.19			PCB-163	-	-	C138	138/164
PCB-114	6.92	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	2.84		
PCB-117	-	-	C087	87/125	PCB-167	10.3	-	J	
PCB-118	-	-	C	106	PCB-168	ND	2.67		
PCB-119	11.9	-	J		PCB-169	ND	2.31		
PCB-120	ND	3.70			PCB-170	45.4	-		
PCB-121	2270	-			PCB-171	16.9	-	J	
PCB-122	4.16	-	J		PCB-172	72.2	-		
PCB-123	5.39	-	J		PCB-173	ND	3.93		
PCB-124	11.8	-	J		PCB-174	61.8	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.44		
PCB-126	ND	3.10			PCB-176	12.9	-	J	
PCB-127	ND	2.62			PCB-177	36.0	-		
PCB-128	36.9	-	C	162	PCB-178	18.2	-	J	
PCB-129	13.4	-	J		PCB-179	34.1	-		
PCB-130	18.8	-	J		PCB-180	12.6	-	J	
PCB-131	10.7	-	C,J	133	PCB-181	ND	3.54		
PCB-132	95.0	-	C	161	PCB-182	83.0	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	48.0	-		
PCB-134	23.9	-	C	143	PCB-184	2480	-		
PCB-135	61.1	-			PCB-185	ND	3.49		
PCB-136	74.4	-			PCB-186	ND	2.45		
PCB-137	14.6	-	J		PCB-187	-	-	C182	182
PCB-138	296	-	C	163/164	PCB-188	ND	2.65		
PCB-139	342	-	C	149	PCB-189	ND	2.34		
PCB-140	6.94	-	J		PCB-190	ND	2.61		
PCB-141	55.6	-			PCB-191	ND	2.66		
PCB-142	6260	-			PCB-192	1940	-		
PCB-143	-	-	C134	134	PCB-193	ND	2.64		
PCB-144	22.7	-			PCB-194	16.3	-	J	
PCB-145	ND	1.71			PCB-195	6.90	-	J	
PCB-146	58.6	-	C	165	PCB-196	25.3	-	C	203
PCB-147	8.15	-	J		PCB-197	32.8	-		
PCB-148	ND	2.59			PCB-198	ND	2.83		
PCB-149	-	-	C139	139	PCB-199	21.5	-		
PCB-150	ND	1.68			PCB-200	ND	2.19		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12513-011-SA | Date Extracted: 08-06-2019 | ICal: DAILY209FAL4-8-7-19 | Acquired: 08-07-2019
Client ID: LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI | Date Received: 06-28-2019 | GC Column: DB1MS
Matrix: Solvent | Amount: 1.00 sample | Units: pg/sample
Batch No: X4998

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.16		
PCB-202	8.50	-	J	
PCB-203	-	-	C196	196
PCB-204	4920	-		
PCB-205	ND	2.38		
PCB-206	6.88	-	J	
PCB-207	21.7	-		
PCB-208	ND	2.33		
PCB-209	24.7	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	84.9	5.00 - 145	
13C-PCB-3	88.8	5.00 - 145	
13C-PCB-4	90.8	5.00 - 145	
13C-PCB-15	98.4	5.00 - 145	
13C-PCB-19	87.3	5.00 - 145	
13C-PCB-37	110	5.00 - 145	
13C-PCB-54	85.0	5.00 - 145	
13C-PCB-77	98.2	10.0 - 145	
13C-PCB-81	100	10.0 - 145	
13C-PCB-104	94.2	10.0 - 145	
13C-PCB-105	98.7	10.0 - 145	
13C-PCB-114	103	10.0 - 145	
13C-PCB-118	103	10.0 - 145	
13C-PCB-123	106	10.0 - 145	
13C-PCB-126	98.7	10.0 - 145	
13C-PCB-155	94.4	10.0 - 145	
13C-PCB-156	91.8	10.0 - 145	
13C-PCB-157	94.6	10.0 - 145	
13C-PCB-167	92.7	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	91.7	10.0 - 145	
13C-PCB-189	102	10.0 - 145	
13C-PCB-202	89.5	10.0 - 145	
13C-PCB-205	89.9	10.0 - 145	
13C-PCB-206	83.7	10.0 - 145	
13C-PCB-208	79.8	10.0 - 145	
13C-PCB-209	75.0	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	113	5.00 - 145	
13C-PCB-111	96.7	10.0 - 145	
13C-PCB-178	98.6	10.0 - 145	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Coelution
D	Presence of Diphenyl Ethers
DNQ	Analyte concentration is below calibration range
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected at Detection Limit Level
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: [signature]
Date: 8/9/2019

Reviewed By: DPV
Date: 8/9/2019

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El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No.: 12513
Temperature: 1 °C

Chain of Custody

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Please Print in Pen **Page** 1 **of** 2

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Floyd Snider	Company Name: Wood.	FAL Quote #: 3102A
Contact Name: Gretchen Heavner	Contact Name: Diane Shannon and Crystal Thimsen	P.O. #: C013106435
Address: 601 Union Street, Suite 600, Seattle WA 98101	Address: 3500 188TH St. SW, Suite 601, Lynnwood WA 98037	Project #: LY15160310
Phone: 206-292-2078 Fax: 206-682-7867	Phone: 425-921-4008 Fax:	Project Name: LDW ENR/AC Pilot Study
Email: gretchen.heavner@floydsnider.com	Email: diane.shannon@woodplc.com & crystal.thimsen@woodplc.com	TAT (business days): ✓ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION
Report Level: ☐ I/II ☐ III ✓ IV
✓ EDD: ☐ FAL Basic ☐ Geotracker ✓ Other: FSI ☐ Custom: Contact FAL
☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

REPORT DISTRIBUTION (email only is preferred)
☐ Hardcopy
☐ CD (.pdf including EDDs if requested)
✓ Email (.pdf including EDDs if requested)

ADDITIONAL INSTRUCTIONS
EDD format should be as developed with Floyd|Snider and Saylor Data Solutions

****CONGENERS**
☐ 2,3,7,8-TCDD only
☐ 2,3,7,8-TCDD/F only
☐ PCDD/F (Cl_4-Cl_8)

****TEQ**
☐ 1998 WHO
☐ 2005 WHO
☐ Other

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	LDW-Y2-SC-ENR+AC-CA-SSW1	6-26-19	1050	hexane									✓			Process, TBD run on GC
2	LDW-Y2-SC-ENR+AC-CB-SSW1	6-26-19	1056	hexane									✓			Process, TBD run on GC
3	LDW-Y2-SC-ENR+AC-CC-SSW1	6-26-19	1102	hexane									✓			Process, TBD run on GC
4	LDW-Y2-SC-ENR+AC-CD-SSW1	6-26-19	1109	hexane									✓			Process, TBD run on GC
5	LDW-Y2-SC-ENR+AC-CE-SSW1	6-26-19	1113	hexane									✓			Process, TBD run on GC
6	LDW-Y2-SC-ENR-CA-SSW1	6-26-19	1123	hexane									✓			Process, TBD run on GC
7	LDW-Y2-SC-ENR-CB-SSW1	6-26-19	1130	hexane									✓			Process, TBD run on GC
8	LDW-Y2-SC-ENR-CC-SSW1	6-26-19	1136	hexane									✓			Process, TBD run on GC
9	LDW-Y2-SC-ENR-CD-SSW1	6-26-19	1147	hexane									✓			Process, TBD run on GC
10	LDW-Y2-SC-ENR-CE-SSW1	6-26-19	1157	hexane									✓			Process, TBD run on GC
11				hexane												Process, ____ run on GC
12				hexane												Process, ____ run on GC
13				hexane												Process, ____ run on GC
14				hexane												Process, ____ run on GC
15				hexane												Process, ____ run on GC

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Colt Ray Collin Ray	6/26/19	1412	Kathy Spp 1C Zipp	6/28/19	900

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

TAT 0307 0726

White Copy – Report Yellow Copy – Laboratory Pink Copy - Originator

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **12513**

Client:	Floyd | Snider
Client Project ID:	LY15160310
Date Received:	06/28/2019
Time Received:	09:00 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	10
Duplicates:	0
Storage Location:	R-5

Method of Delivery:	Fed-Ex
Tracking Number:	775583070026
Shipping Container Received Intact	Yes
Custody seals(s) present?	Yes
Custody seals(s) intact?	Yes
Sample Arrival Temperature (C)	1
Cooling Method	Blue Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test aqueous sample for residual Chlorine	No
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	N/A
Anomalies or additional comments:	

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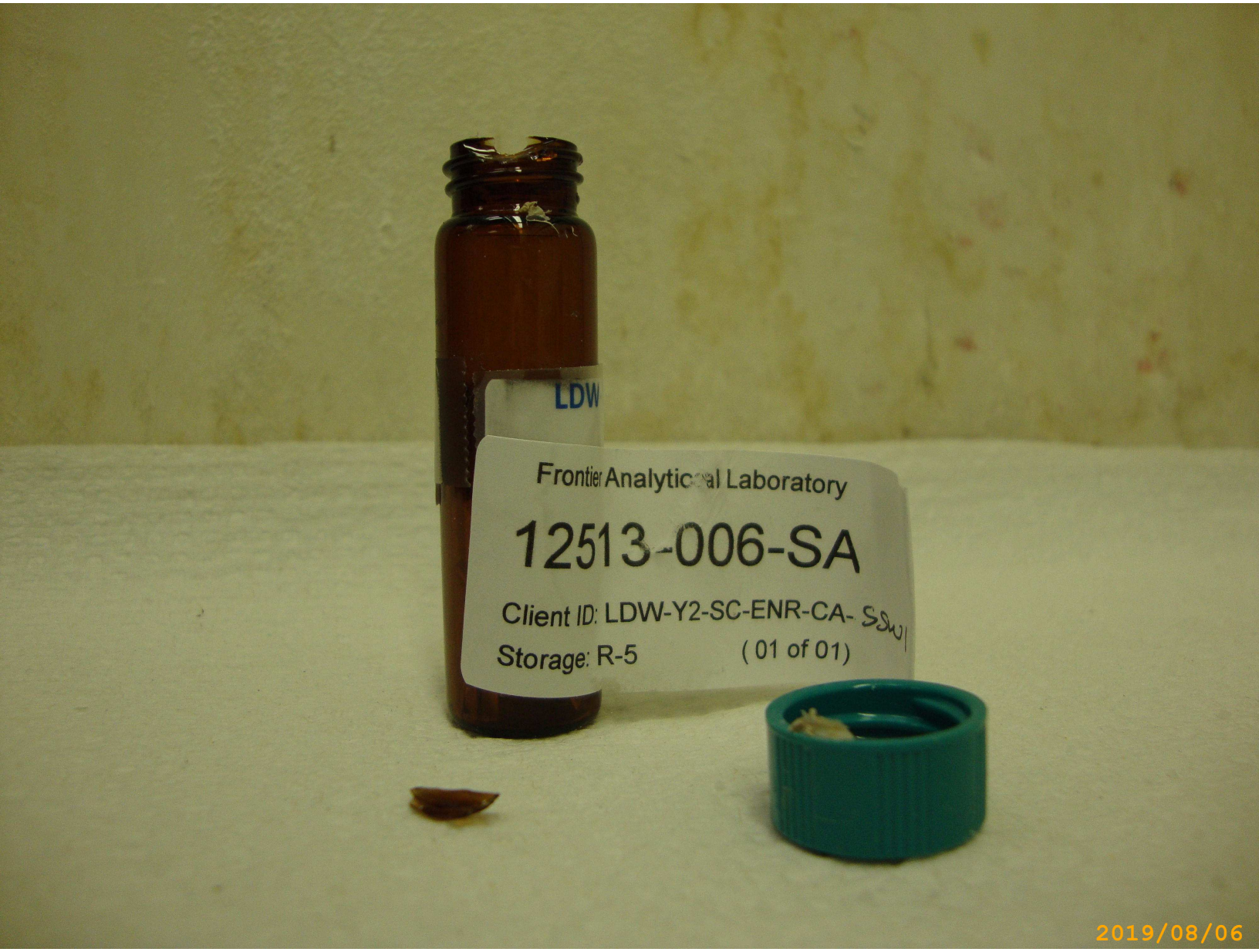

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~~All samples on hold.~~ off hold 7/11/19

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PROJECT REQUEST SHEET

Project #:	12513	Sample #:	~~1-10~~ 2-3, 5-11 RR 8.6.19	Client Manager:	BS
Client:	Floyd | Snider			Hold Time:	06/25/2020
Matrix:	Solvent	Extraction Batch:	4998	Due Date:	~~07/23/2019~~ 8-9-19
Method:	EPA 1668 PCB			Storage:	R-5
SOP:	SOPs: EP1A Rev.13/IP1A Rev.11				

COMMENTS/INSTRUCTIONS:

Results: 12513

Extract/s located in box: Knott Fun

Standards: 12513

Instrument:
DB5MS ____
007-225 ____
DB1MS FAL-4
Other ____

7/11 Extract all Samples.
Analyze only the following: (1&4 comp), 2,3,8-10

L4 & Floyd Snider EDD

Samples 2, 3 + 8 See special instructions

Frontier Analytical Laboratory

EXTRACTION SHEET

Project #: 12513 Extraction Date: 2019-08-06 Extraction Chemist: RR

Method/Analysis: EPA 1668 PCB

Procedure: Solvent Dilution Solvent: Hexane

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS Amt: 10.0uL ID: R190613A Vial: ~~1~~ 2 Chemist/Witness/Date	NS Amt: 10.0uL ID: 190510A Vial: 1 Chemist/Witness/Date	CSS Amt: 10.0uL ID: R190613B Vial: 1 Chemist/Witness/Date
04998-001-0001-MB	5.00mL	NA	RR KC 8·6·19	NA	RR KC 8·6·19
04998-001-0001-OPR	5.00mL			RR KC 8·6·19	
12513-002-0001-SA	3.00mL			NA	
12513-003-0001-SA	5.50mL				
12513-005-0001-SA	5.50mL				
12513-006-0001-SA	0.10mL				
12513-007-0001-SA	5.30mL				
12513-008-0001-SA	5.50mL				
12513-009-0001-SA	5.40mL				
12513-010-0001-SA	5.30mL				
12513-011-0001-SA	9.60mL				

AX-21 Charcoal Cleaned	110617	Acetone	58341	Acid Alumina	A0388461	Hexane	59018
Methanol	186960	Methylene Chloride (DCM)	59081	Silica Gel	TA5022134	Sodium Hydroxide 1N	178056
Sodium Sulfate	18E165217	Sulfuric Acid	190027	Tetradecane	181247	Toluene	185670
Water	58201	C-18 Empore Discs	031319	Cyclohexane	58152		

Comments:

* Sample 12513·001 measured 4.30mL and sample 12513·004 measured 5.30mL. Comped together measures a total of 9.60mL. RR 8·6·19

* Sample 12513·006 was almost empty but was able to draw out 0.10mL for extraction. RR 8·6·19

Frontier Analytical Laboratory
CLEANUP SHEET

Project #: 12513

Method/Analysis: EPA 1668 PCB

Splits: 0 Split Date: N/A Final Volume: 100uL

Sample ID	Cleanup 1	Cleanup 2	Cleanup 3	RS
	PCB-MSG	NA	NA	Amt: 10.0uL ID: 190723A Vial: 1
	Chemist/Date	Chemist/Date	Chemist/Date	Chemist/Witness/Date
04998-001-0001-MB	RR 8-6-19	NA	NA	RR KC 8-6-19
04998-001-0001-OPR				
12513-002-0001-SA				
12513-003-0001-SA				
12513-005-0001-SA				
12513-006-0001-SA				
12513-007-0001-SA				
12513-008-0001-SA				
12513-009-0001-SA				
12513-010-0001-SA				
12513-011-0001-SA				

AX-21 Charcoal Cleaned	110617	Acetone	58341	Acid Alumina	A0388461	Hexane	59018
Methanol	186960	Methylene Chloride (DCM)	59081	Silica Gel	TA5022134	Sodium Hydroxide 1N	178056
Sodium Sulfate	18E165217	Sulfuric Acid	190027	Tetradecane	181247	Toluene	185670
Water	58201	C-18 Empore Discs	031319	Cyclohexane	58152		

Comments:

FAL ID: 04998-001-0001-MB Filename: 07AUG19Z Sam:4 Acquired: 7-AUG-19 09:18:49 ICal: DAILY209FAL4-8-7-19
Client ID: Method Blank ConCal: ST080719Z1 EndCal: ST080719Z2
Results: 12513 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	1.11	*		1130	764	2.30	
13C-PCB-1	5.72e+07	3.25	y	14:31	0.91	8910					89.1
PCB-2	*	*	n	NotFnd	1.13	*		1130	764	2.49	
PCB-3	*	*	n	NotFnd	1.15	*		1130	764	2.68	
13C-PCB-3	5.56e+07	3.34	y	16:58	0.89	8930					89.3
PCB-4	*	*	n	NotFnd	1.16	*		687	2460	5.32	
PCB-10	*	*	n	NotFnd	1.28	*		687	2460	4.83	
13C-PCB-4	4.23e+07	1.56	y	18:11	0.65	9320					93.2
PCB-9	*	*	n	NotFnd	1.40	*		687	2460	4.40	
PCB-7	*	*	n	NotFnd	1.36	*		687	2460	4.52	
PCB-6	*	*	n	NotFnd	1.38	*		687	2460	4.46	
PCB-8	*	*	n	NotFnd	1.34	*		687	2460	4.61	
PCB-5	*	*	n	NotFnd	1.34	*		687	2460	4.61	
PCB-14	*	*	n	NotFnd	1.32	*		687	2460	4.67	
PCB-11	*	*	n	NotFnd	1.20	*		687	2460	5.12	
PCB-13	*	*	n	NotFnd	1.18	*		687	2460	5.23	
PCB-12	*	*	n	NotFnd	1.23	*		687	2460	5.00	
PCB-15	*	*	n	NotFnd	1.08	*		687	2460	5.71	
13C-PCB-15	6.01e+07	1.62	y	23:43	0.93	9180					91.8
PCB-19	*	*	n	NotFnd	1.19	*		1030	456	3.42	
PCB-30	*	*	n	NotFnd	1.77	*		1030	456	2.29	
PCB-18	*	*	n	NotFnd	1.18	*		1030	456	3.44	
PCB-17	*	*	n	NotFnd	1.29	*		1030	456	3.13	
PCB-27	*	*	n	NotFnd	1.74	*		1030	456	2.34	
PCB-24	*	*	n	NotFnd	1.64	*		1030	456	2.47	
PCB-16	*	*	n	NotFnd	1.36	*		1030	456	2.98	
PCB-32	*	*	n	NotFnd	1.53	*		1030	456	2.65	
13C-PCB-19	3.32e+07	1.08	y	22:04	0.51	9320					93.2
13C-PCB-9	7.02e+07	1.59	y	19:52	-	72.1					
PCB-34	*	*	n	NotFnd	1.14	*		1340	496	5.19	
PCB-23	*	*	n	NotFnd	1.35	*		1340	496	4.36	
PCB-29	*	*	n	NotFnd	1.30	*		1340	496	4.52	
PCB-26	*	*	n	NotFnd	1.24	*		1340	496	4.74	
PCB-25	*	*	n	NotFnd	1.22	*		1340	496	4.81	
PCB-31	*	*	n	NotFnd	1.28	*		1340	496	4.62	
PCB-28	*	*	n	NotFnd	1.42	*		1340	496	4.16	
PCB-20	*	*	n	NotFnd	1.18	*		1340	496	5.00	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.18	*		1340	496	5.00	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.18	*		1340	496	5.00	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.23	*		1340	496	4.78	
PCB-36	*	*	n	NotFnd	1.18	*		1340	496	5.00	
PCB-39	*	*	n	NotFnd	1.17	*		1340	496	5.05	
PCB-38	*	*	n	NotFnd	1.17	*		1340	496	5.04	
PCB-35	*	*	n	NotFnd	1.03	*		1340	496	5.70	
PCB-37	*	*	n	NotFnd	1.09	*		1340	496	5.43	
13C-PCB-37	3.93e+07	1.08	y	30:21	1.32	8810					88.1

FAL ID: 04998-001-0001-MB Filename: 07AUG19Z Sam:4 Acquired: 7-AUG-19 09:18:49 ICal: DAILY209FAL4-8-7-19
Client ID: Method Blank ConCal: ST080719Z1 EndCal: ST080719Z2
Results: 12513 GC Column: DB1MS Amount: 1.000

PCB-54	*	*	n	NotFnd	1.19	*		364	680	2.01	
PCB-50	*	*	n	NotFnd	0.93	*		364	680	2.55	
PCB-53	*	*	n	NotFnd	0.92	*		364	680	2.60	
PCB-51	*	*	n	NotFnd	0.96	*		364	680	2.49	
PCB-45	*	*	n	NotFnd	0.79	*		364	680	3.02	
PCB-46	*	*	n	NotFnd	0.75	*		364	680	3.20	
PCB-52	*	*	n	NotFnd	0.93	*		364	680	2.56	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	0.93	*		364	680	2.56	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.15	*		364	680	2.08	
PCB-43	*	*	n	NotFnd	0.81	*		364	680	2.95	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.81	*		364	680	2.95	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.86	*		364	680	2.77	
PCB-48	*	*	n	NotFnd	1.04	*		364	680	2.30	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	1.04	*		364	680	2.30	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.05	*		364	680	2.28	
PCB-62	*	*	n	NotFnd	1.09	*		364	680	2.19	
PCB-44	*	*	n	NotFnd	0.69	*		364	680	3.47	
PCB-42	*	*	n	NotFnd	0.90	*		364	680	2.66	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.90	*		364	680	2.66	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	0.96	*		364	680	2.49	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	0.96	*		364	680	2.49	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	0.96	*		364	680	2.49	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	0.96	*		364	680	2.49	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	1.11	*		364	680	2.15	
PCB-40	*	*	n	NotFnd	0.60	*		364	680	3.98	
PCB-57	*	*	n	NotFnd	1.00	*		364	680	2.39	
PCB-67	*	*	n	NotFnd	0.94	*		364	680	2.53	
PCB-58	*	*	n	NotFnd	1.06	*		364	680	2.26	
PCB-63	*	*	n	NotFnd	1.00	*		364	680	2.39	
PCB-74	*	*	n	NotFnd	0.97	*		364	680	2.45	
PCB-61	*	*	n	NotFnd	0.93	*		364	680	2.57	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	0.93	*		364	680	2.57	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.02	*		364	680	2.33	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.02	*		364	680	2.33	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.20	*		364	680	1.99	
PCB-55	*	*	n	NotFnd	1.03	*		364	680	2.32	
13C-PCB-54	4.23e+07	0.82	y	25:36	1.26	9960					99.6
PCB-104	*	*	n	NotFnd	1.08	*		228	368	1.50	
PCB-96	*	*	n	NotFnd	0.98	*		228	368	1.64	
PCB-103	*	*	n	NotFnd	0.77	*		228	368	2.09	
PCB-100	*	*	n	NotFnd	0.79	*		228	368	2.05	
PCB-94	*	*	n	NotFnd	0.64	*		228	368	2.53	
PCB-98	*	*	n	NotFnd	0.65	*		228	368	2.49	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.65	*		228	368	2.49	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.69	*		228	368	2.35	
PCB-93	*	*	n	NotFnd	0.69	*		228	368	2.35	
PCB-88	*	*	n	NotFnd	0.72	*		228	368	2.23	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.72	*		228	368	2.23	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.87	*		228	368	1.85	
13C-PCB-104	3.39e+07	1.55	y	30:01	1.00	9950					99.5
13C-PCB-28	6.01e+07	1.06	y	26:40	1.67	10700					107
13C-PCB-52	3.39e+07	0.80	y	28:56	-	68.7					

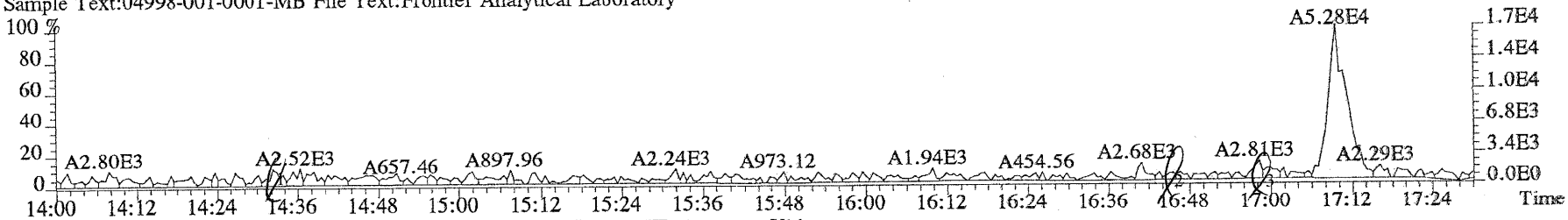
PCB-56	*	*	n	NotFnd	1.02	*		360	596	3.99	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.02	*		360	596	3.99	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.16	*		360	596	3.51	
PCB-78	*	*	n	NotFnd	1.11	*		360	596	3.66	
PCB-81	*	*	n	NotFnd	1.17	*		360	596	3.40	
13C-PCB-81	2.77e+07	0.81	y	36:06	1.41	9120					91.2
PCB-77	*	*	n	NotFnd	1.00	*		360	596	4.19	
13C-PCB-77	2.89e+07	0.79	y	36:40	1.45	9170					91.7
PCB-155	*	*	n	NotFnd	1.01	*		272	260	1.93	
PCB-150	*	*	n	NotFnd	0.98	*		272	260	2.00	
PCB-152	*	*	n	NotFnd	0.87	*		272	260	2.25	
PCB-145	*	*	n	NotFnd	0.96	*		272	260	2.03	
PCB-136	*	*	n	NotFnd	0.94	*		272	260	2.09	
PCB-148	*	*	n	NotFnd	0.63	*		272	260	3.08	
PCB-154	*	*	n	NotFnd	0.79	*		272	260	2.49	
13C-PCB-155	2.71e+07	1.32	y	34:10	1.27	9910					99.1
13C-PCB-111	2.62e+07	1.60	y	36:15	1.24	9770					97.7
13C-PCB-101	2.17e+07	1.59	y	34:37	-	57.8					
PCB-84	*	*	n	NotFnd	0.83	*		448	564	5.46	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.83	*		448	564	5.46	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.81	*		448	564	5.55	
PCB-90	*	*	n	NotFnd	0.91	*		448	564	4.97	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.91	*		448	564	4.97	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.04	*		448	564	4.32	
PCB-99	*	*	n	NotFnd	1.00	*		448	564	4.49	
PCB-119	*	*	n	NotFnd	1.15	*		448	564	3.92	
PCB-83	*	*	n	NotFnd	0.91	*		448	564	4.97	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.91	*		448	564	4.97	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.09	*		448	564	4.15	
PCB-97	*	*	n	NotFnd	0.75	*		448	564	6.05	
PCB-86	*	*	n	NotFnd	0.83	*		448	564	5.43	
PCB-125	*	*	n	NotFnd	0.99	*		448	564	4.56	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.99	*		448	564	4.56	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.99	*		448	564	4.56	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.14	*		448	564	3.95	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.14	*		448	564	3.95	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.99	*		448	564	4.57	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.99	*		448	564	4.57	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.18	*		448	564	3.81	
PCB-110	*	*	n	NotFnd	1.13	*		448	564	4.00	
PCB-82	*	*	n	NotFnd	0.66	*		448	564	6.85	
PCB-124	*	*	n	NotFnd	1.13	*		420	354	3.06	
PCB-108	*	*	n	NotFnd	1.08	*		420	354	3.20	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.08	*		420	354	3.20	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.02	*		420	354	3.30	
13C-PCB-123	2.42e+07	1.54	y	38:18	1.21	9570					95.7
PCB-118	*	*	n	NotFnd	1.04	*		420	354	3.08	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.04	*		420	354	3.08	Co-elute PCB 118
13C-PCB-118	2.65e+07	1.61	y	38:28	1.36	9370					93.7
PCB-114	*	*	n	NotFnd	1.13	*		420	354	3.23	
13C-PCB-114	2.48e+07	1.58	y	39:06	1.26	9400					94.0
PCB-122	*	*	n	NotFnd	1.04	*		420	354	3.32	
PCB-105	*	*	n	NotFnd	1.12	*		420	354	3.22	
13C-PCB-105	2.41e+07	1.58	y	39:53	1.26	9140					91.4

PCB-127	*	*	n	NotFnd	1.03	*		420	354	3.36	
PCB-126	*	*	n	NotFnd	1.08	*		420	354	4.10	
13C-PCB-126	2.18e+07	1.59	y	42:02	1.17	8900					89.0
PCB-151	*	*	n	NotFnd	0.88	*		384	244	3.43	
PCB-135	*	*	n	NotFnd	0.83	*		384	244	3.62	
PCB-144	*	*	n	NotFnd	1.01	*		384	244	2.96	
PCB-147	*	*	n	NotFnd	0.93	*		384	244	3.22	
PCB-139	*	*	n	NotFnd	0.99	*		384	244	3.04	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	0.99	*		384	244	3.04	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.93	*		384	244	3.24	
PCB-143	*	*	n	NotFnd	0.77	*		384	244	3.91	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.77	*		384	244	3.91	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.78	*		384	244	3.87	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.78	*		384	244	3.87	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.77	*		384	244	3.90	
PCB-165	*	*	n	NotFnd	1.04	*		384	244	2.89	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.04	*		384	244	2.89	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	0.95	*		384	244	3.16	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	0.95	*		384	244	3.16	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	1.08	*		384	244	2.77	
PCB-168	*	*	n	NotFnd	1.17	*		384	244	2.57	
PCB-141	*	*	n	NotFnd	0.85	*		384	244	3.53	
PCB-137	*	*	n	NotFnd	0.77	*		384	244	3.89	
PCB-130	*	*	n	NotFnd	0.82	*		384	244	3.68	
PCB-138	*	*	n	NotFnd	1.04	*		384	244	2.88	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.04	*		384	244	2.88	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.04	*		384	244	2.88	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.16	*		384	244	2.59	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.16	*		384	244	2.59	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.73	*		384	244	4.13	
PCB-166	*	*	n	NotFnd	1.09	*		384	244	2.74	
PCB-159	*	*	n	NotFnd	1.20	*		384	244	2.49	
PCB-128	*	*	n	NotFnd	0.94	*		384	244	3.18	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	0.94	*		384	244	3.18	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	1.07	*		384	244	2.70	
13C-PCB-167	2.25e+07	1.27	y	43:22	1.16	9270					92.7
PCB-156	*	*	n	NotFnd	1.14	*		384	244	2.86	
13C-PCB-156	2.08e+07	1.26	y	44:36	1.16	8590					85.9
PCB-157	*	*	n	NotFnd	1.08	*		384	244	2.86	
13C-PCB-157	2.20e+07	1.28	y	44:51	1.17	9000					90.0
PCB-169	*	*	n	NotFnd	1.05	*		384	244	2.63	
13C-PCB-169	2.13e+07	1.26	y	46:43	1.16	8780					87.8

PCB-188	*	*	n	NotFnd	1.09	*		428	272	3.06	
13C-PCB-188	2.28e+07	1.06	y	39:40	1.15	9520					95.2
PCB-184	*	*	n	NotFnd	1.21	*		428	272	2.53	
PCB-179	*	*	n	NotFnd	1.15	*		428	272	2.67	
PCB-176	*	*	n	NotFnd	1.11	*		428	272	2.76	
PCB-186	*	*	n	NotFnd	1.12	*		428	272	2.72	
PCB-178	*	*	n	NotFnd	0.77	*		428	272	3.97	
PCB-175	*	*	n	NotFnd	0.80	*		428	272	3.82	
PCB-187	*	*	n	NotFnd	0.89	*		428	272	3.45	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.89	*		428	272	3.45	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.86	*		428	272	3.54	
PCB-185	*	*	n	NotFnd	0.79	*		428	272	3.88	
PCB-174	*	*	n	NotFnd	0.81	*		428	272	3.76	
PCB-181	*	*	n	NotFnd	0.78	*		428	272	3.94	
PCB-177	*	*	n	NotFnd	0.73	*		428	272	4.19	
PCB-171	*	*	n	NotFnd	0.80	*		428	272	3.81	
PCB-173	*	*	n	NotFnd	0.70	*		428	272	4.36	
PCB-172	*	*	n	NotFnd	0.75	*		428	272	4.07	
PCB-192	*	*	n	NotFnd	0.99	*		428	272	3.10	
PCB-180	*	*	n	NotFnd	0.77	*		428	272	3.96	
PCB-193	*	*	n	NotFnd	1.04	*		428	272	2.93	
PCB-191	*	*	n	NotFnd	1.04	*		428	272	2.95	
PCB-170	*	*	n	NotFnd	0.78	*		428	272	3.94	
PCB-190	*	*	n	NotFnd	1.05	*		428	272	2.90	
PCB-189	*	*	n	NotFnd	1.12	*		428	272	2.45	
13C-PCB-189	1.97e+07	1.06	y	48:24	1.01	9300					93.0
PCB-202	*	*	n	NotFnd	0.98	*		220	252	2.69	
PCB-201	*	*	n	NotFnd	1.07	*		220	252	2.47	
PCB-204	*	*	n	NotFnd	1.04	*		220	252	2.54	
PCB-197	*	*	n	NotFnd	1.10	*		220	252	2.40	
PCB-200	*	*	n	NotFnd	1.06	*		220	252	2.50	
PCB-198	*	*	n	NotFnd	0.82	*		220	252	3.24	
PCB-199	*	*	n	NotFnd	0.77	*		220	252	3.43	
PCB-203	*	*	n	NotFnd	0.85	*		220	252	3.11	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.85	*		220	252	3.11	Co-elute PCB 203
13C-PCB-202	1.89e+07	0.90	y	44:46	0.96	9460					94.6
13C-PCB-178	1.56e+07	1.10	y	42:18	0.74	10100					101
13C-PCB-138	2.09e+07	1.30	y	41:30	-	57.6					
PCB-195	*	*	n	NotFnd	0.77	*		212	628	3.49	
PCB-194	*	*	n	NotFnd	0.82	*		212	628	3.27	
PCB-205	*	*	n	NotFnd	1.05	*		212	628	2.56	
13C-PCB-205	2.33e+07	0.89	y	50:03	1.30	9270					92.7
PCB-208	*	*	n	NotFnd	1.00	*		180	184	1.09	
13C-PCB-208	2.33e+07	0.80	y	49:07	1.34	8980					89.8
PCB-207	*	*	n	NotFnd	1.17	*		180	184	1.17	
PCB-206	*	*	n	NotFnd	1.05	*		180	184	1.67	
13C-PCB-206	1.70e+07	0.80	y	51:15	0.95	9280					92.8
PCB-209	*	*	n	NotFnd	1.11	*		212	184	1.23	
13C-PCB-209	2.21e+07	1.21	y	52:26	1.24	9250					92.5
13C-PCB-194	1.93e+07	0.91	y	49:48	-	60.0					

Analyst: _____ Date: 8/8/19

File:07AUG19Z #1-783 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-783 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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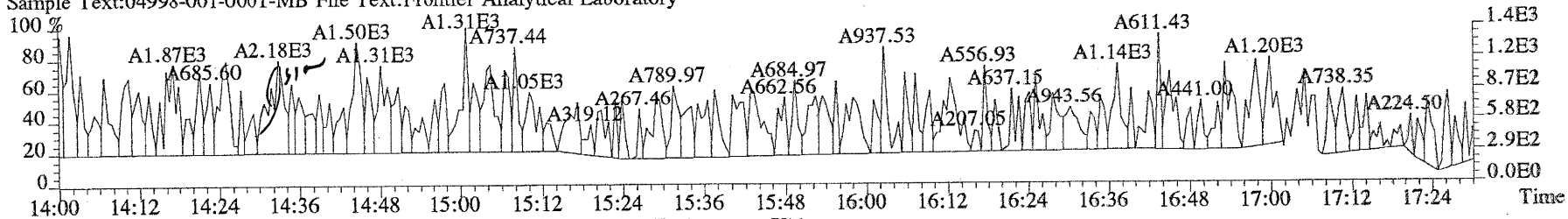

File:07AUG19Z #1-783 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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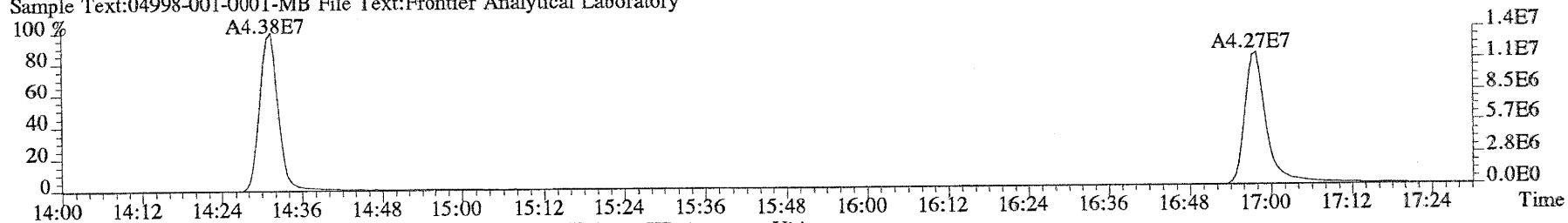

File:07AUG19Z #1-783 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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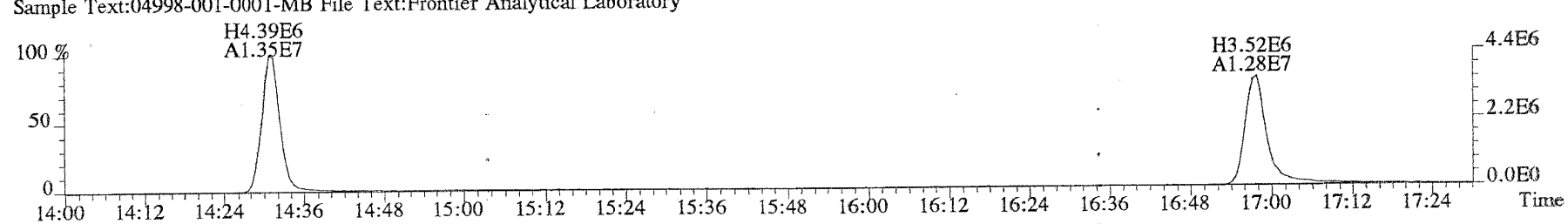

File:07AUG19Z #1-521 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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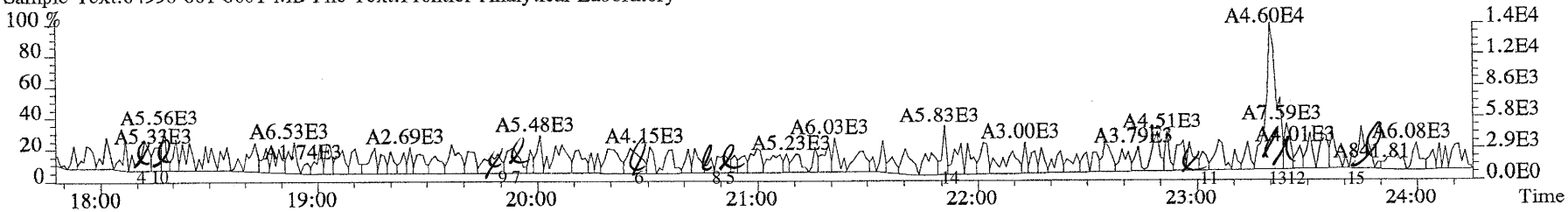

File:07AUG19Z #1-521 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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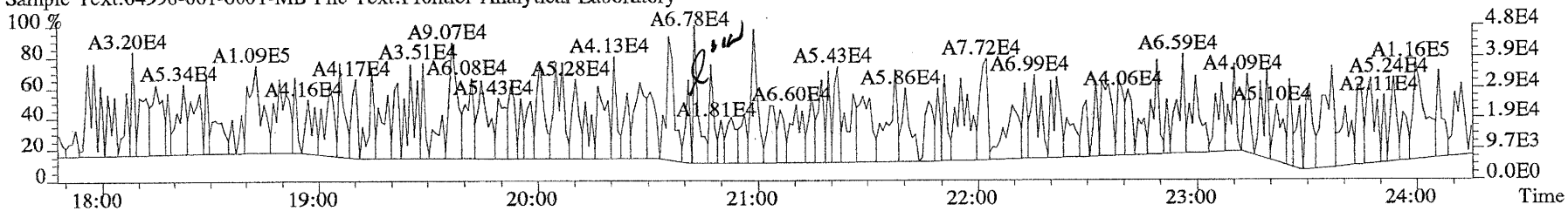
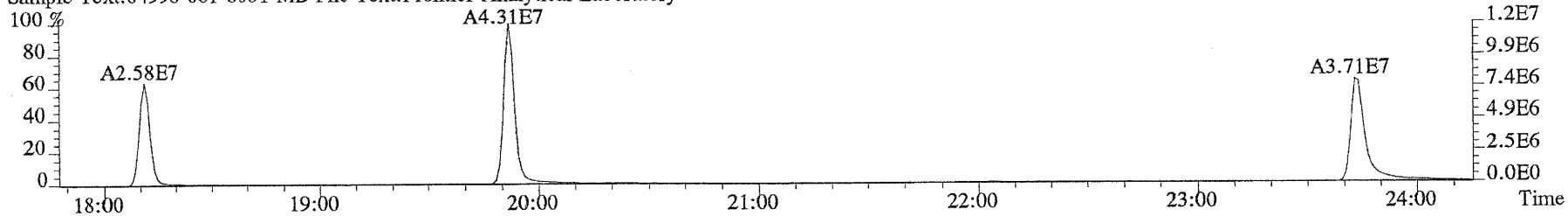


File:07AUG19Z #1-521 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-521 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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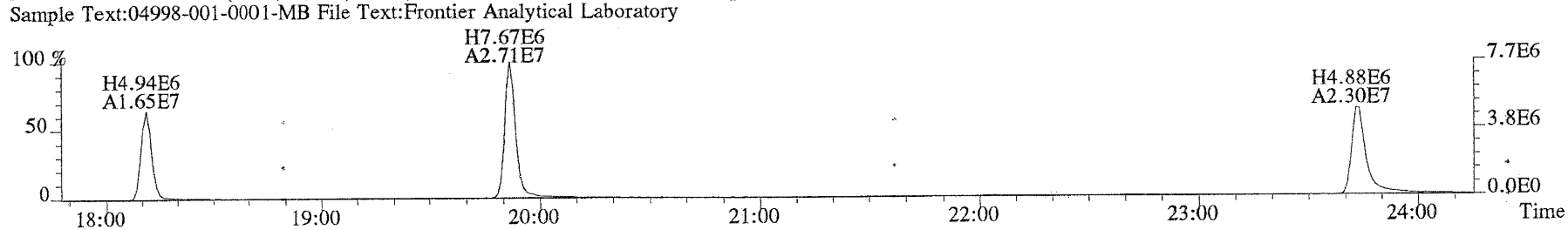
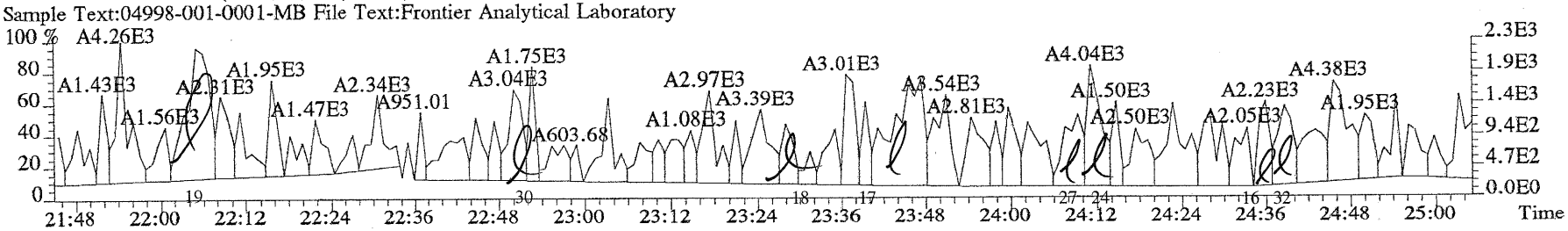


File:07AUG19Z #1-521 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-521 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
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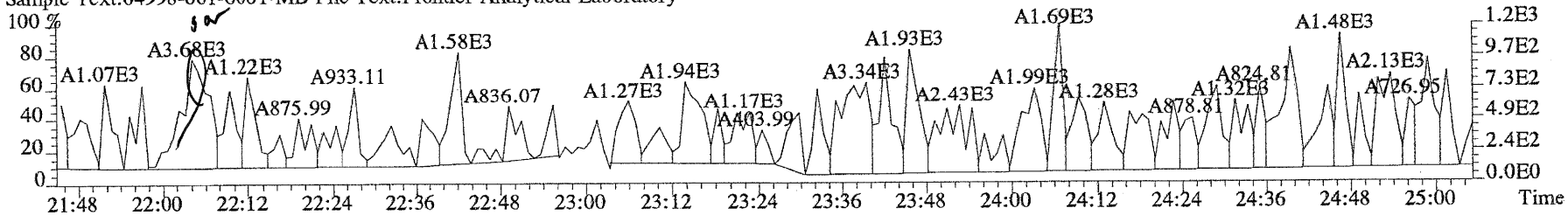
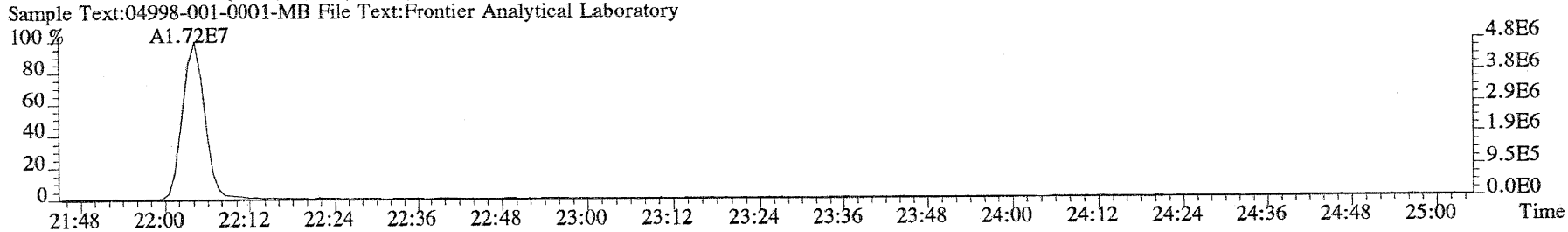
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-521 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-521 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
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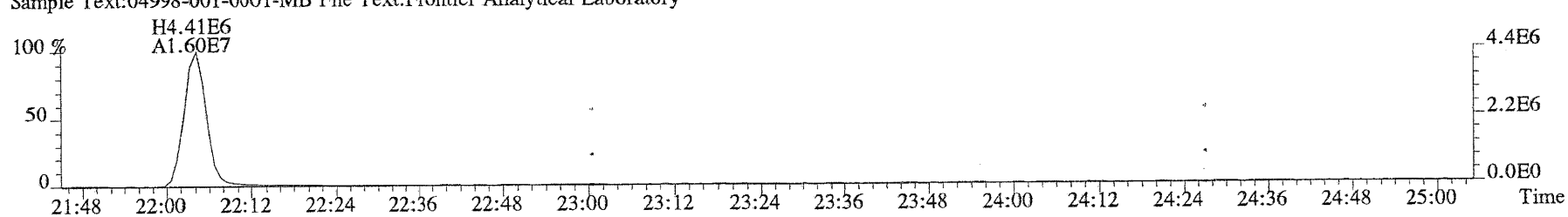
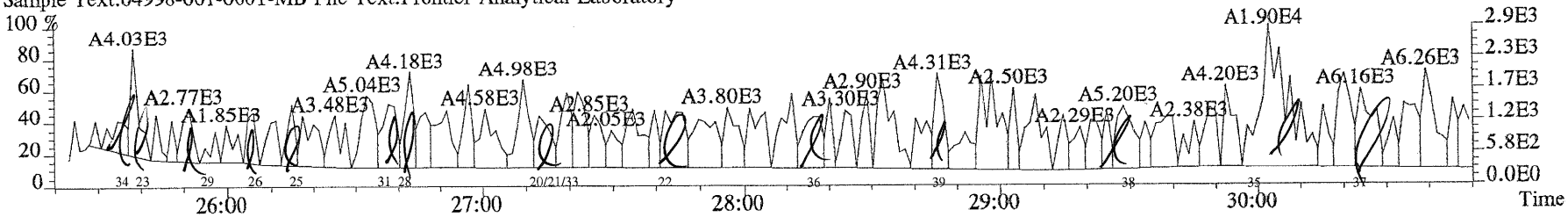
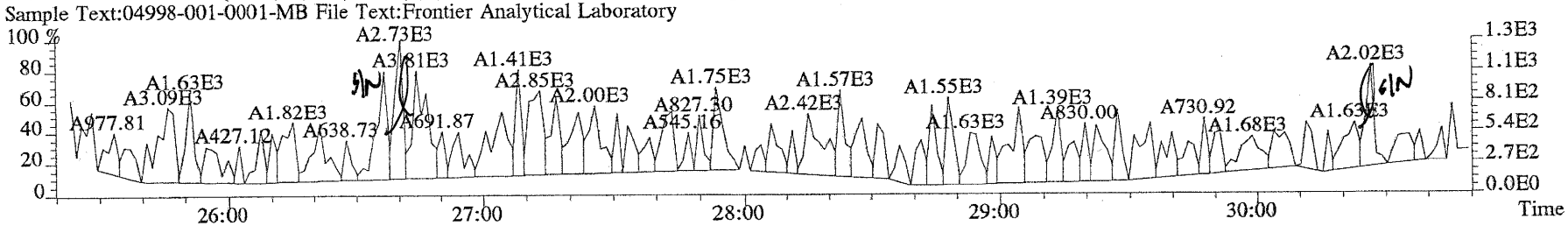
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



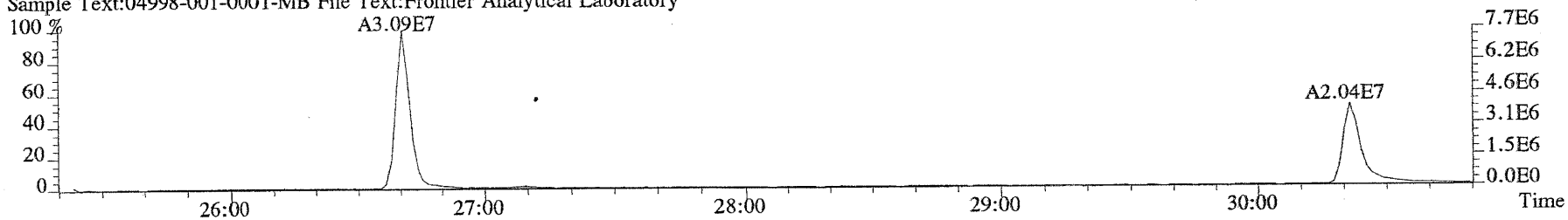
File:07AUG19Z #1-401 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-401 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-401 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



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269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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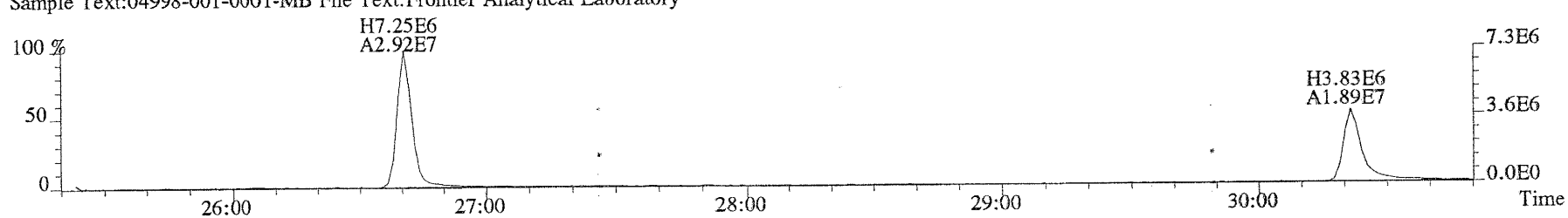

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289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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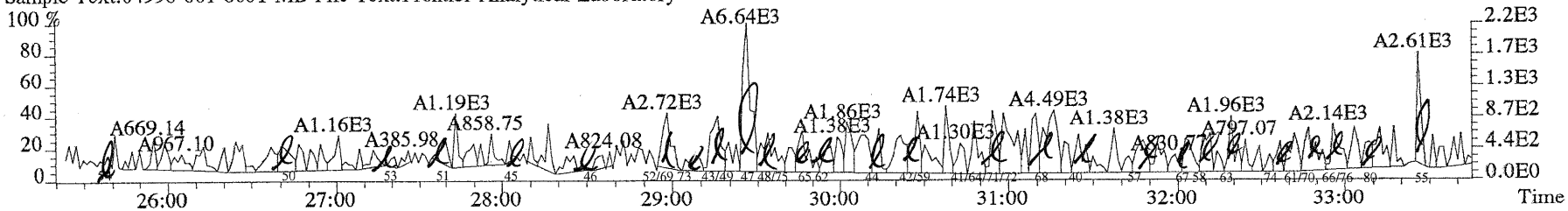

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291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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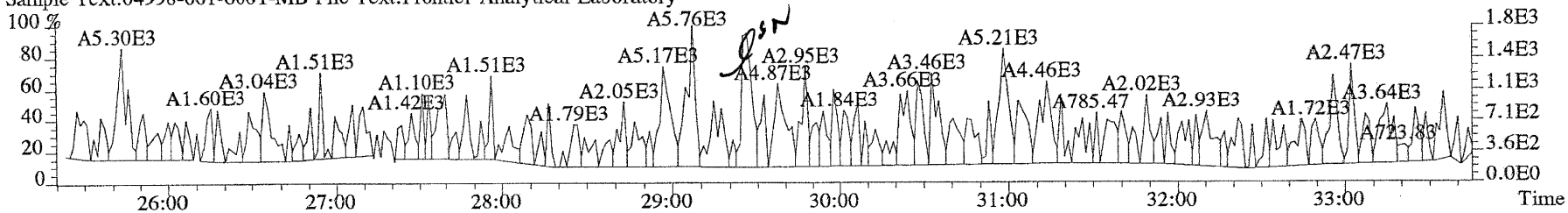

File:07AUG19Z #1-401 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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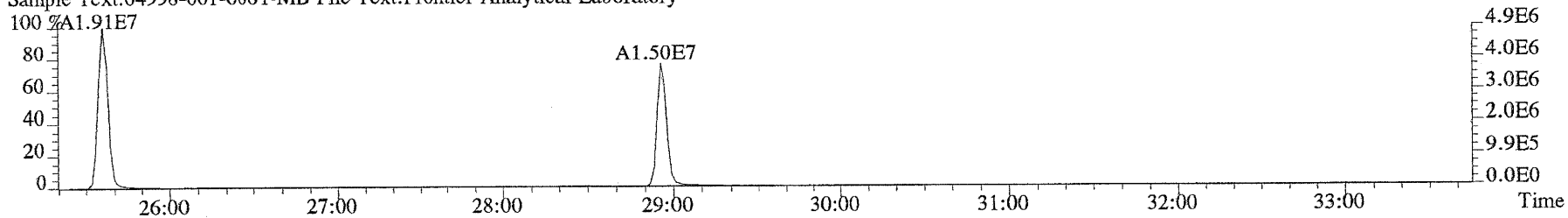
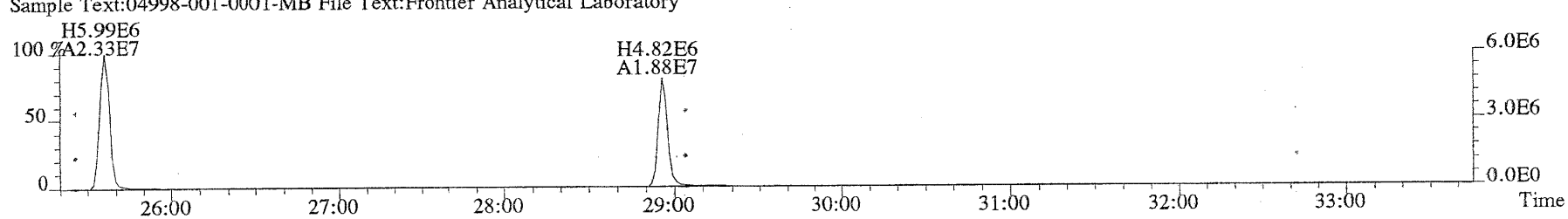
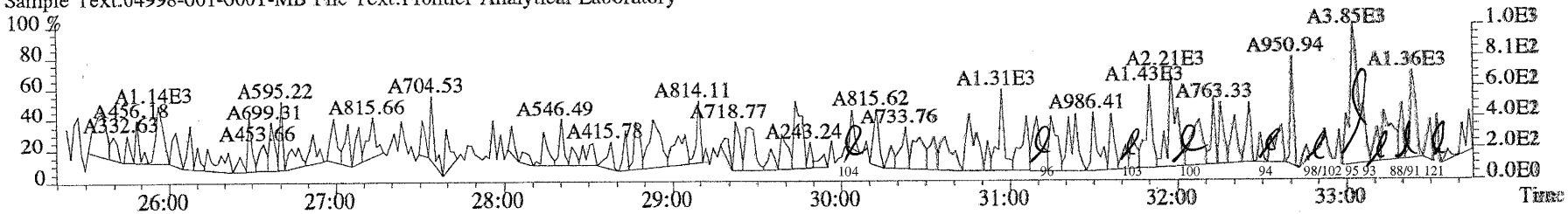


File:07AUG19Z #1-401 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-401 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-401 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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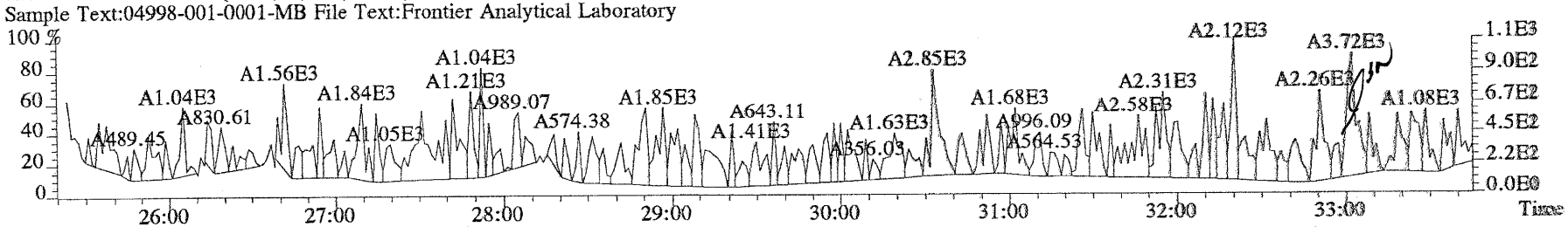

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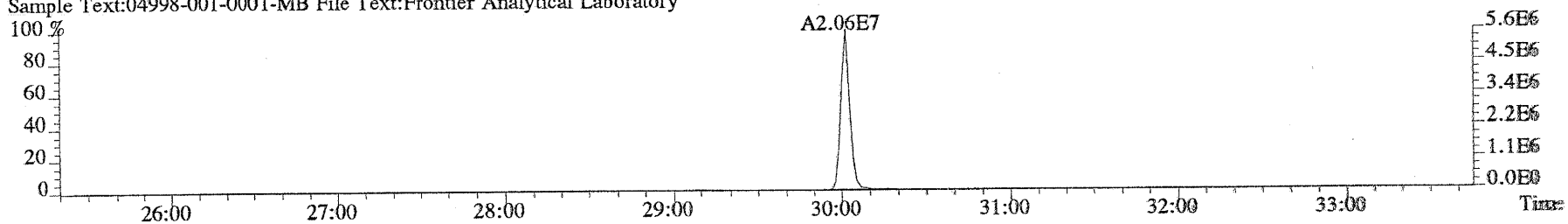
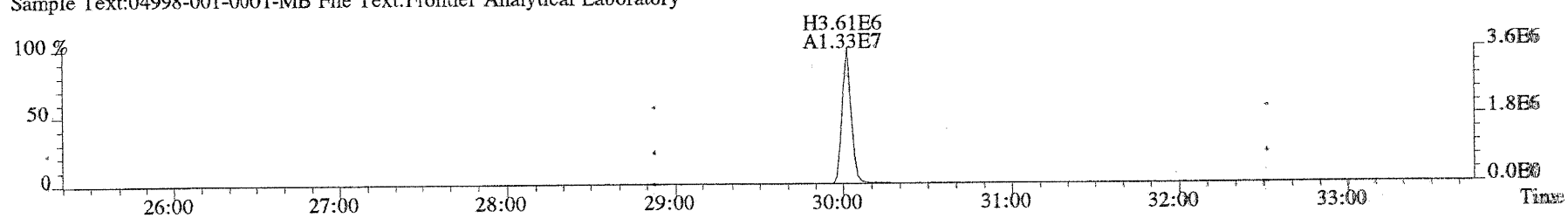
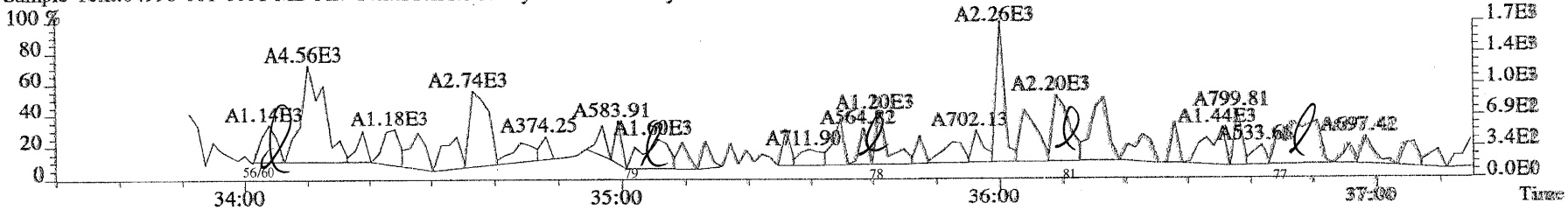
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



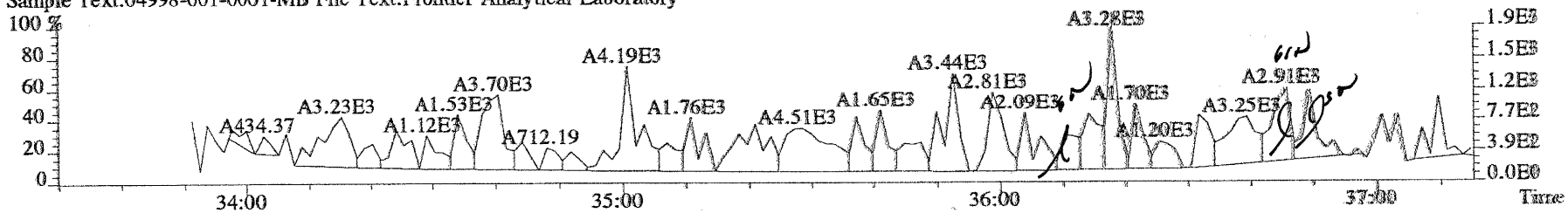
File:07AUG19Z #1-401 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



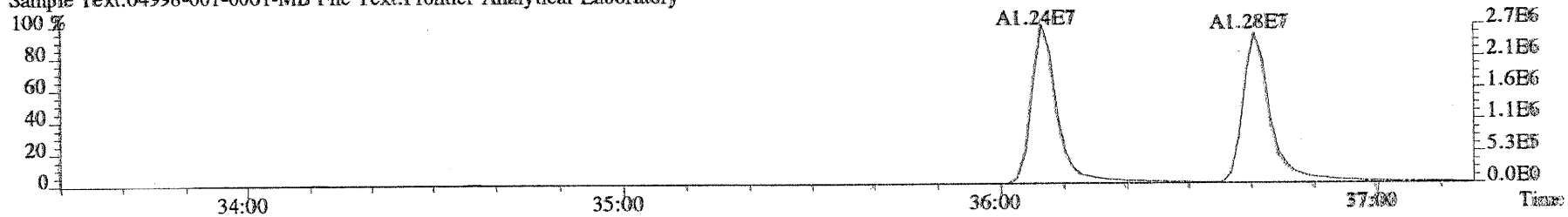
File:07AUG19Z #1-180 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



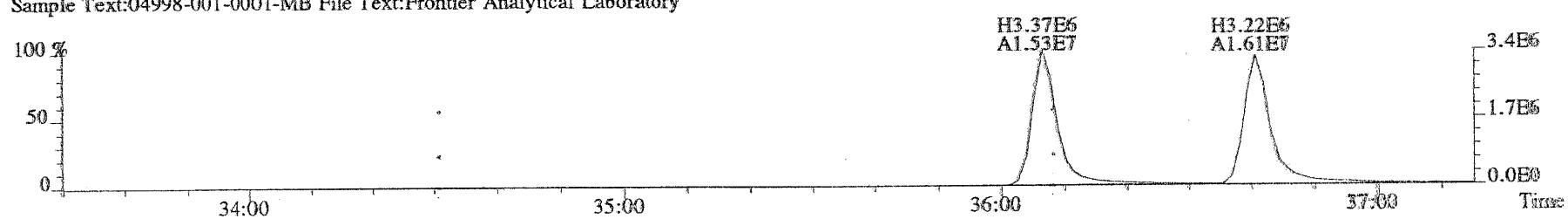
File:07AUG19Z #1-180 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



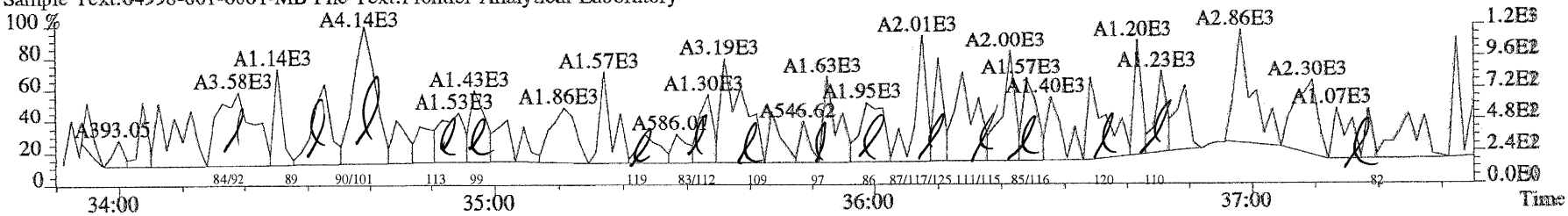
File:07AUG19Z #1-180 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



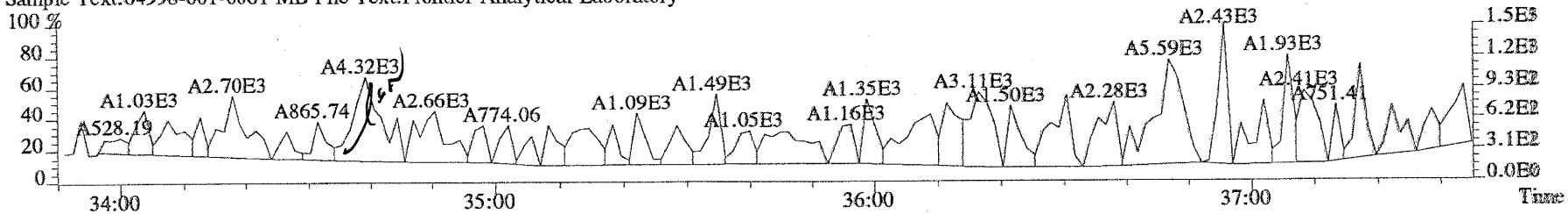
File:07AUG19Z #1-180 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



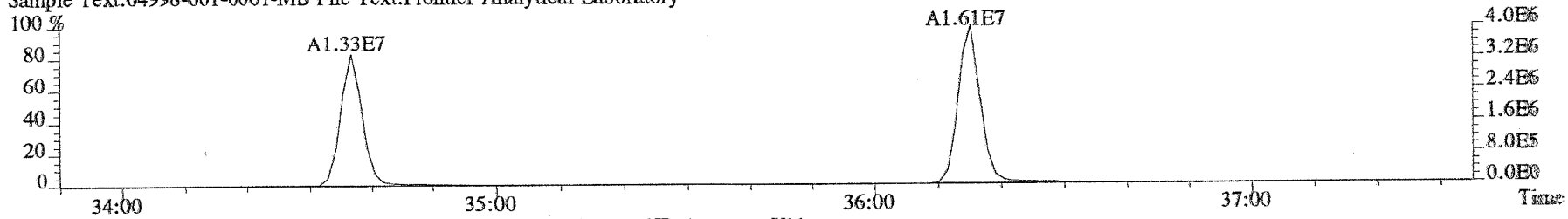
File:07AUG19Z #1-180 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



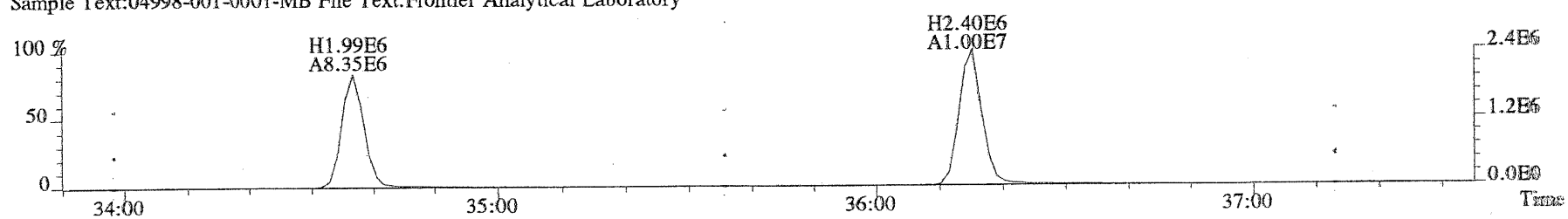
File:07AUG19Z #1-180 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



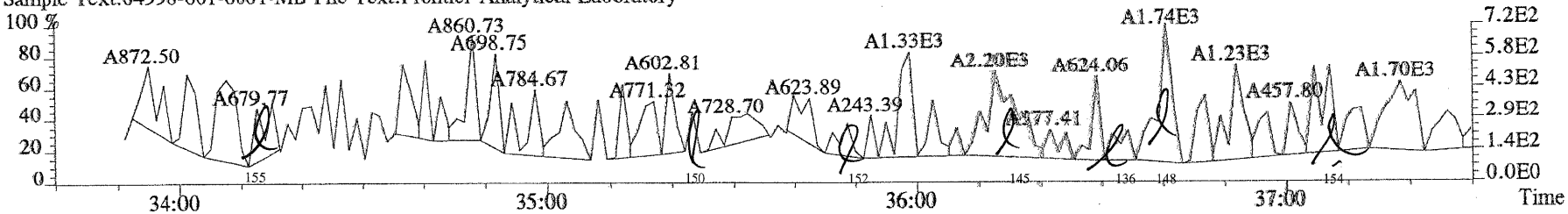
File:07AUG19Z #1-180 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



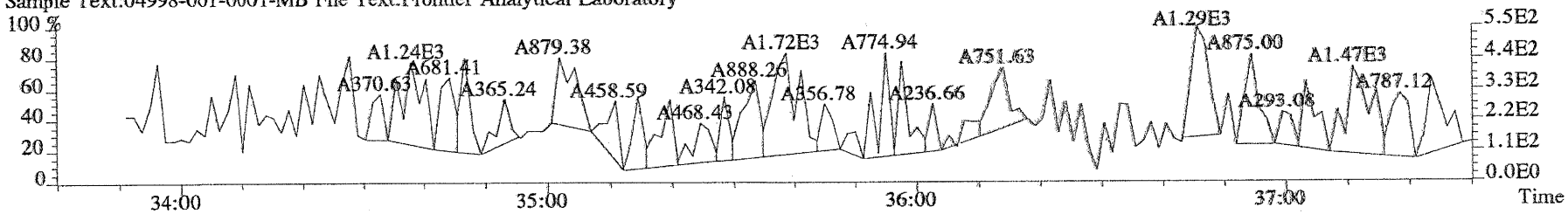
File:07AUG19Z #1-180 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-180 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-180 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



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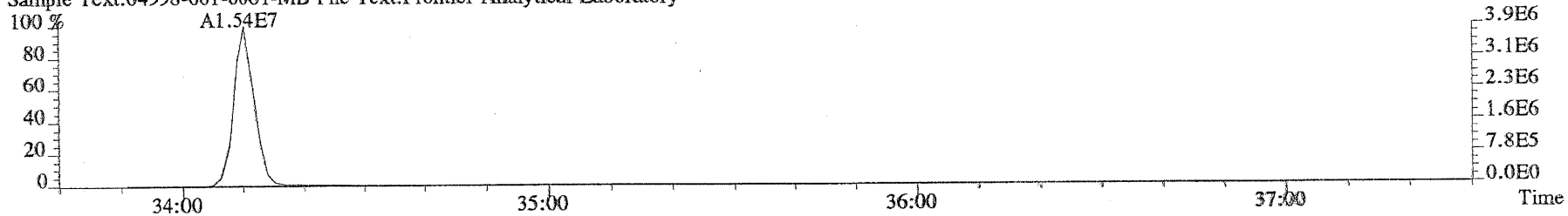
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



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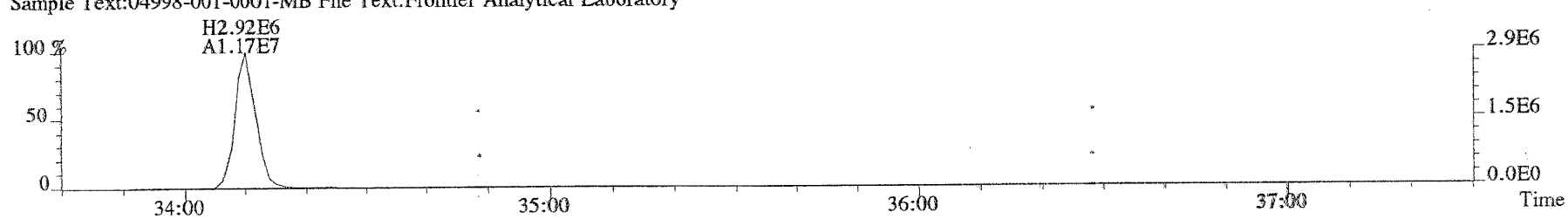
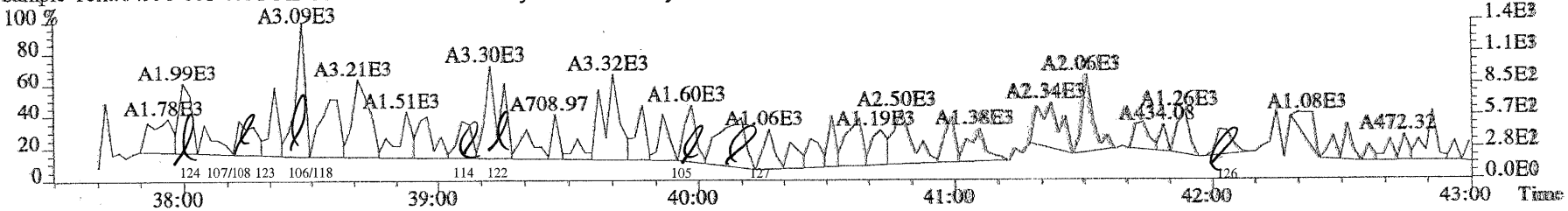
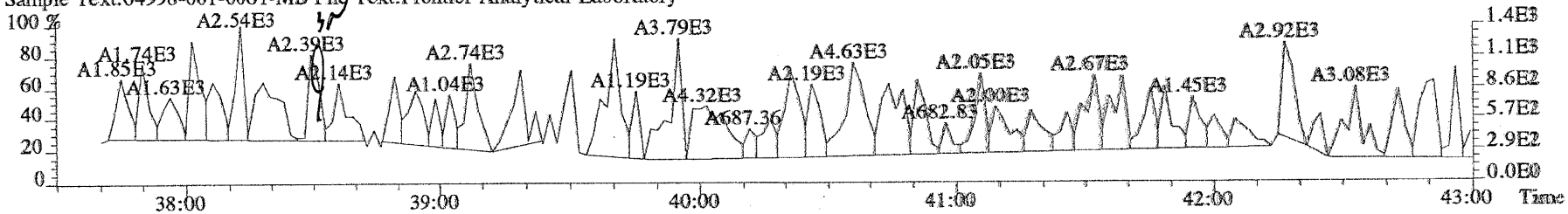
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-406 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-406 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



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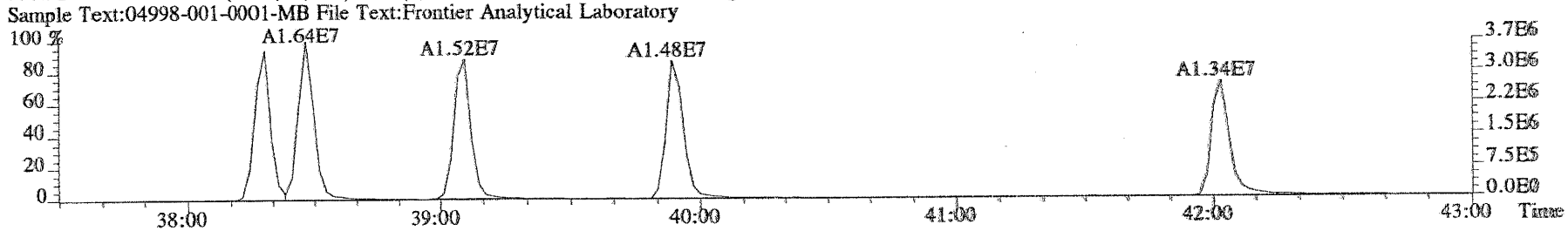
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



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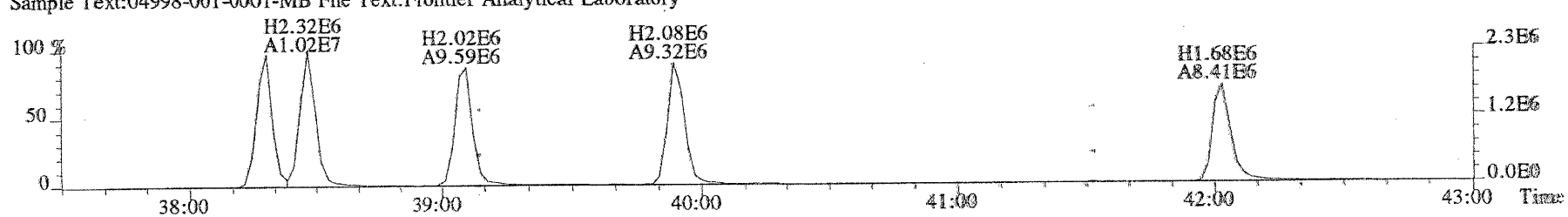
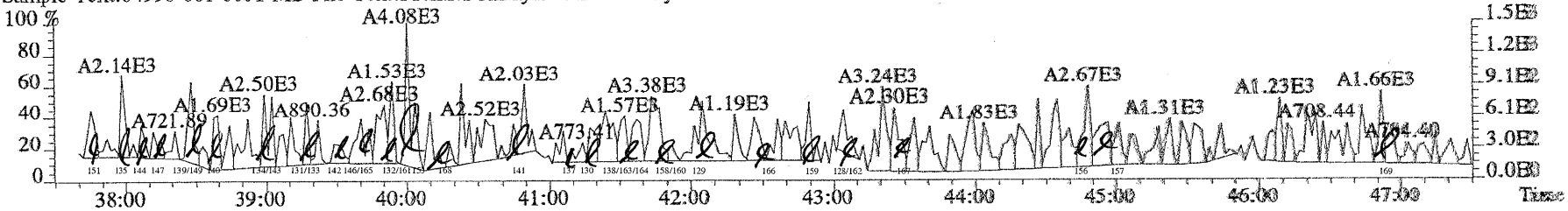
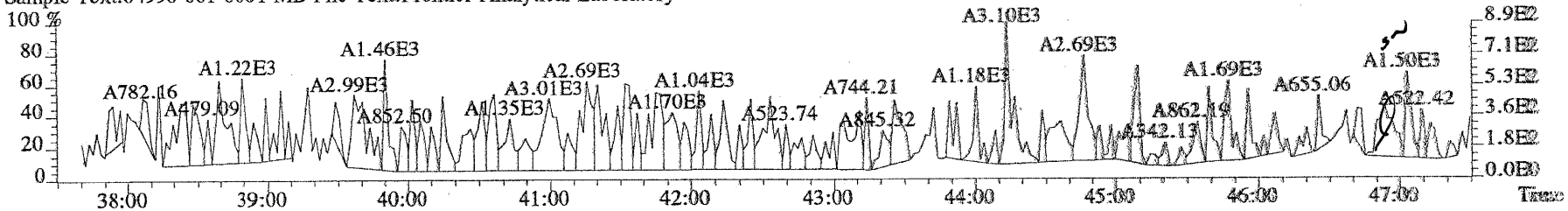
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



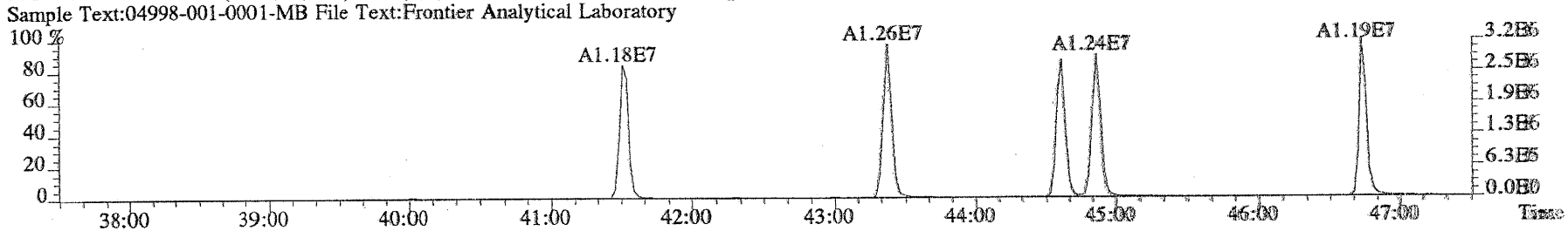
File:07AUG19Z #1-406 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-406 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0:10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-406 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



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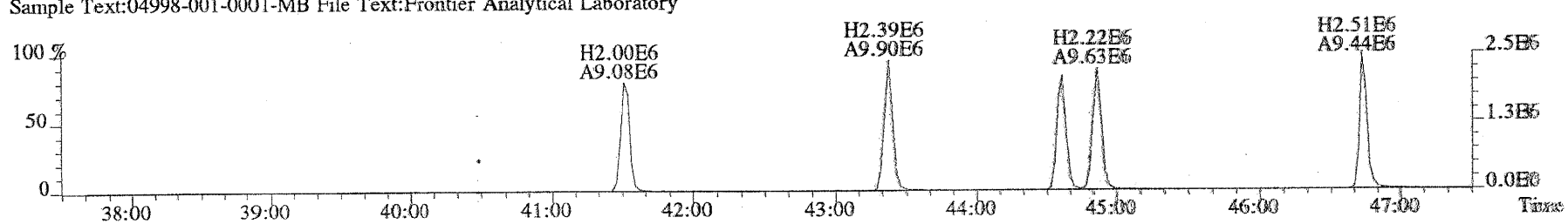
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



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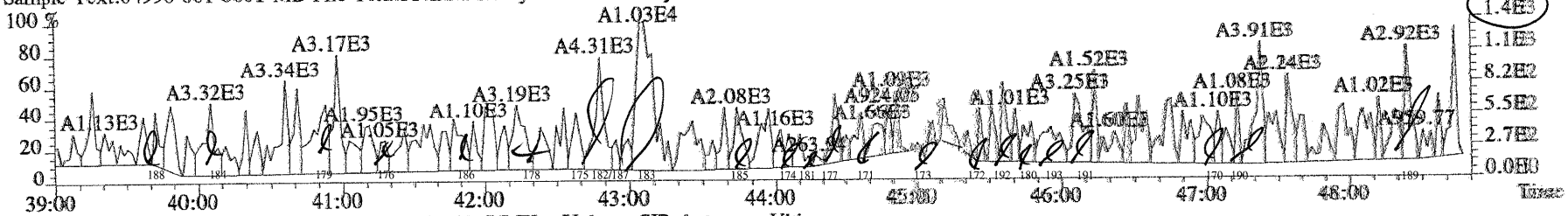
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



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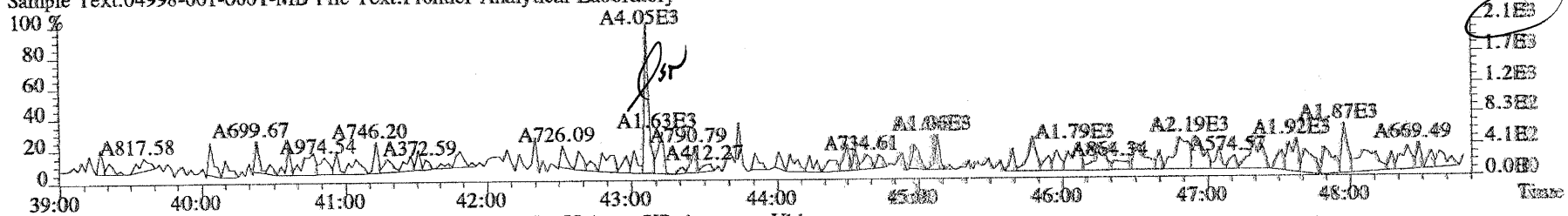
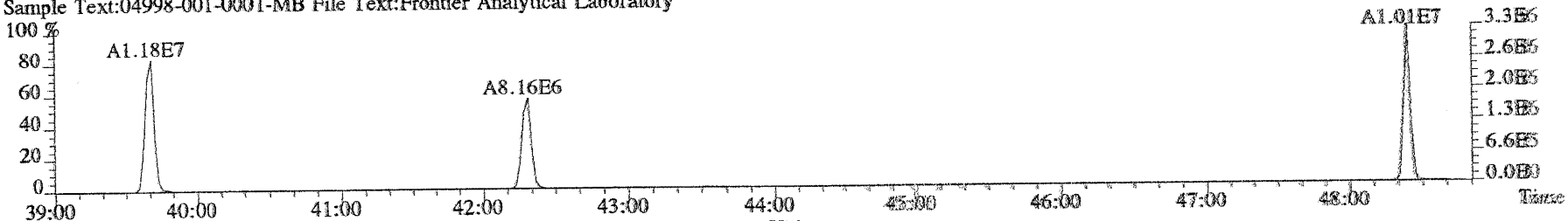
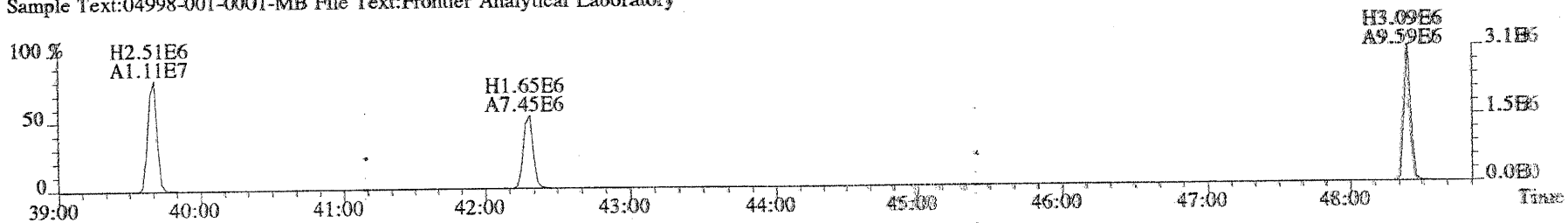
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



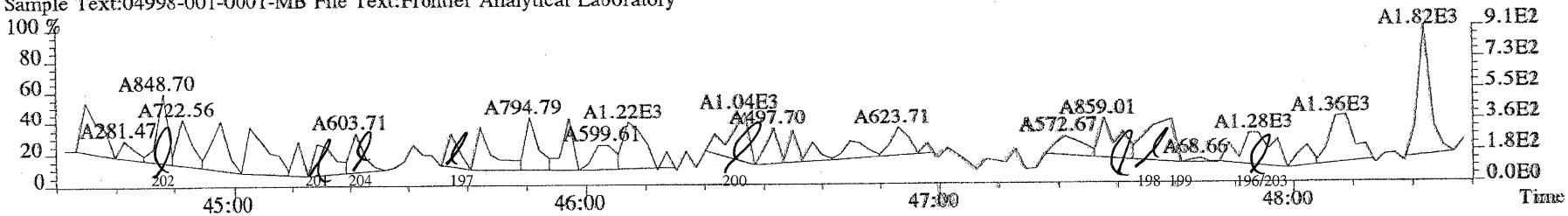
File:07AUG19Z #1-406 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



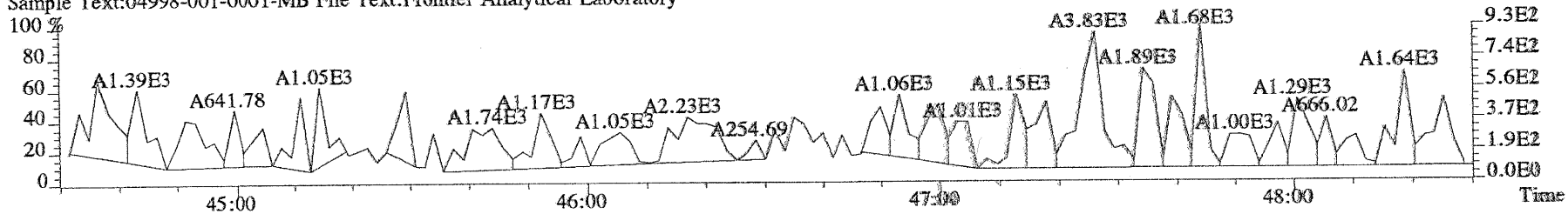
File:07AUG19Z #1-406 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



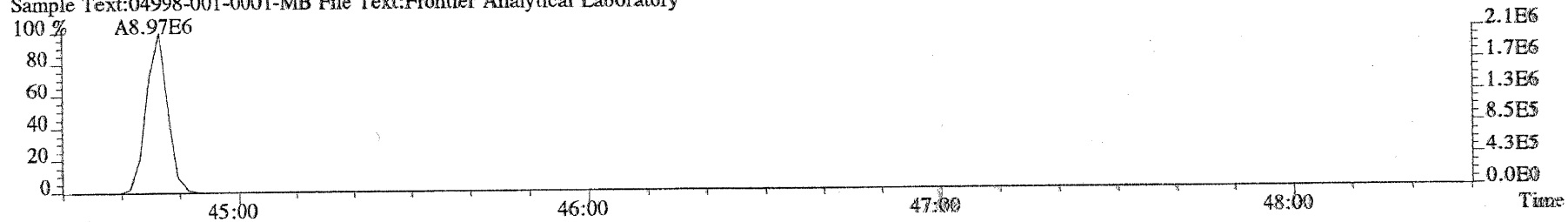
File:07AUG19Z #1-406 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-406 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory

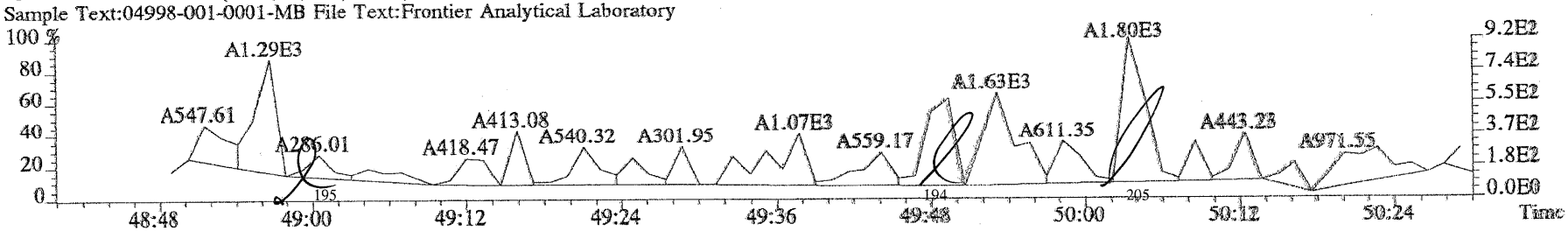


File:07AUG19Z #1-406 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory

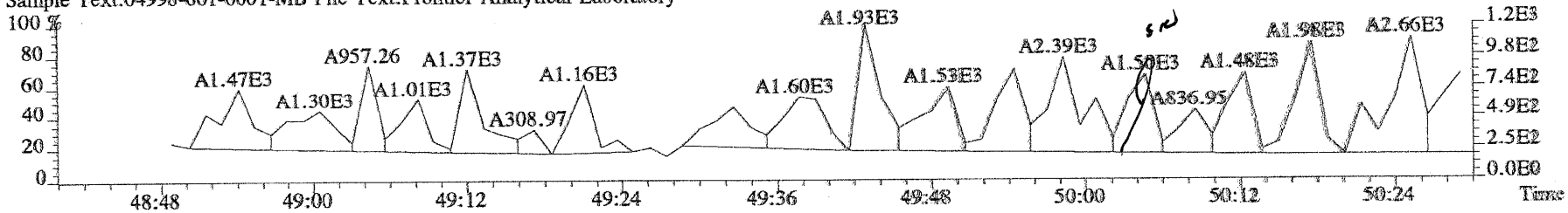


File:07AUG19Z #1-406 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory

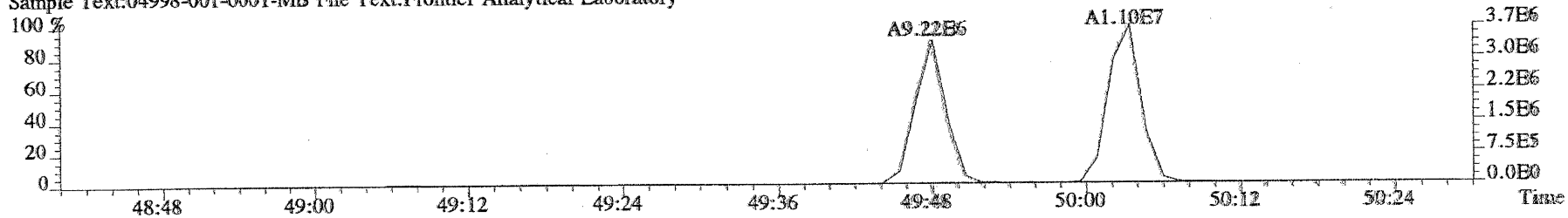
File:07AUG19Z #1-314 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



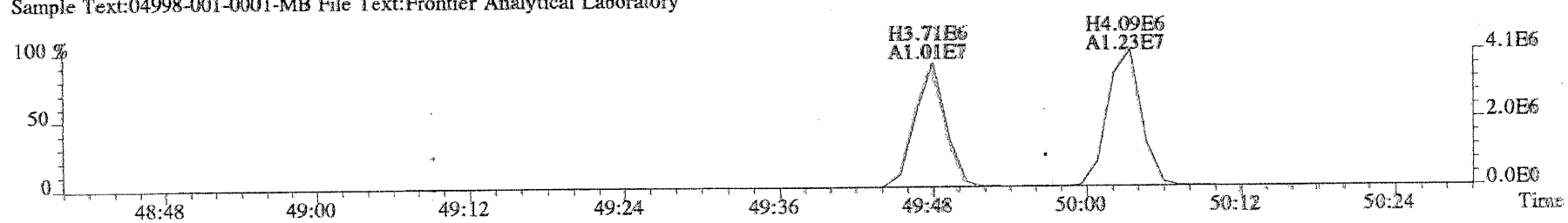
File:07AUG19Z #1-314 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



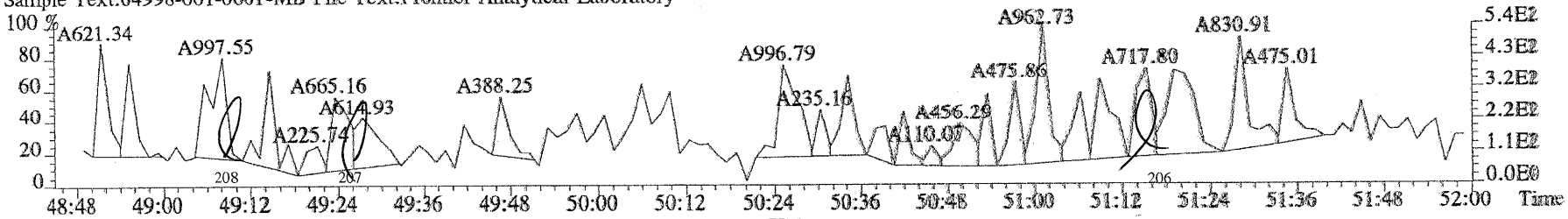
File:07AUG19Z #1-314 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



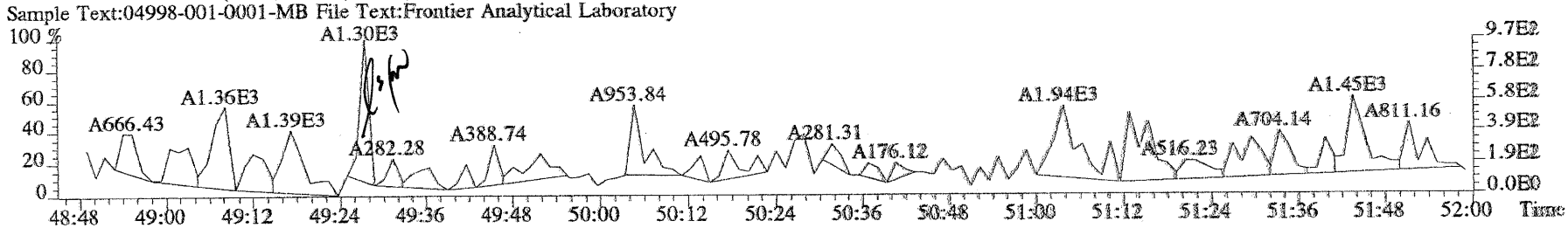
File:07AUG19Z #1-314 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



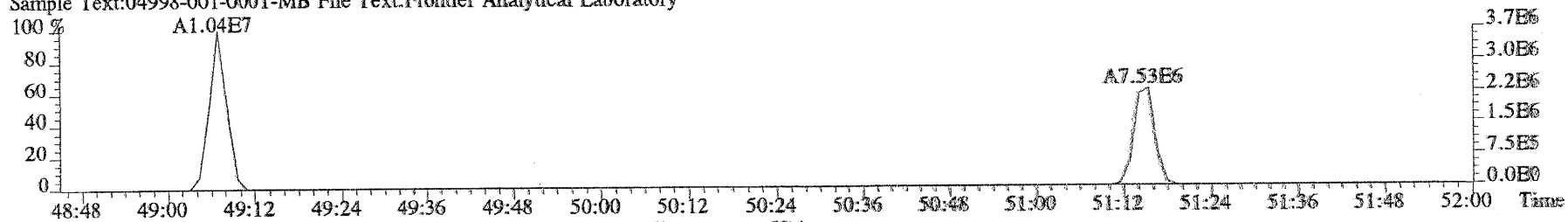
File:07AUG19Z #1-314 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



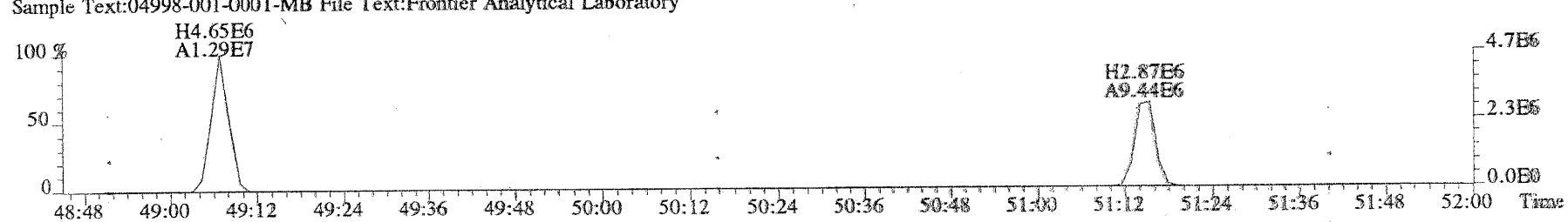
File:07AUG19Z #1-314 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



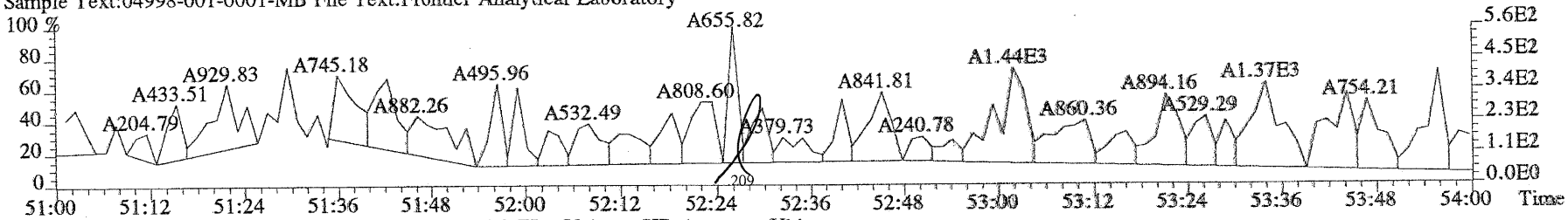
File:07AUG19Z #1-314 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



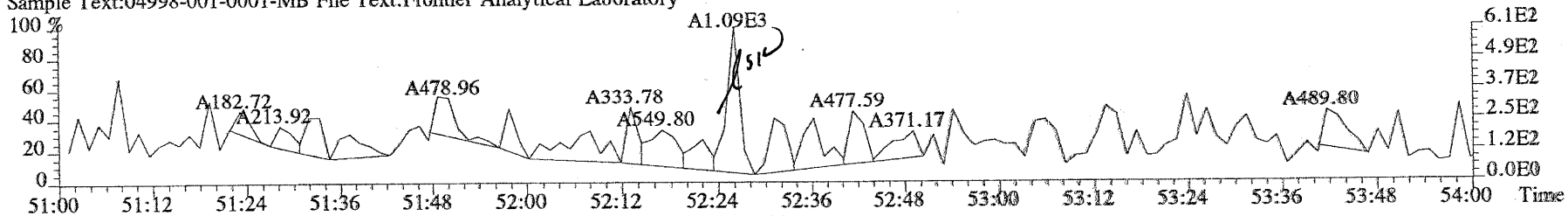
File:07AUG19Z #1-314 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



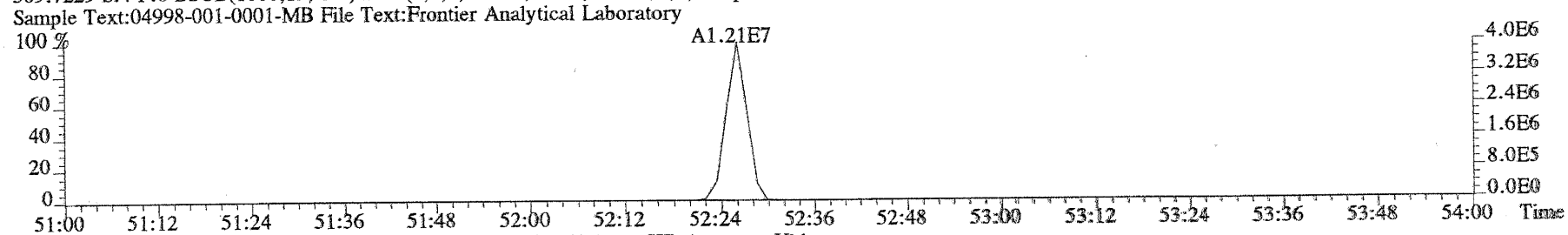
File:07AUG19Z #1-314 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



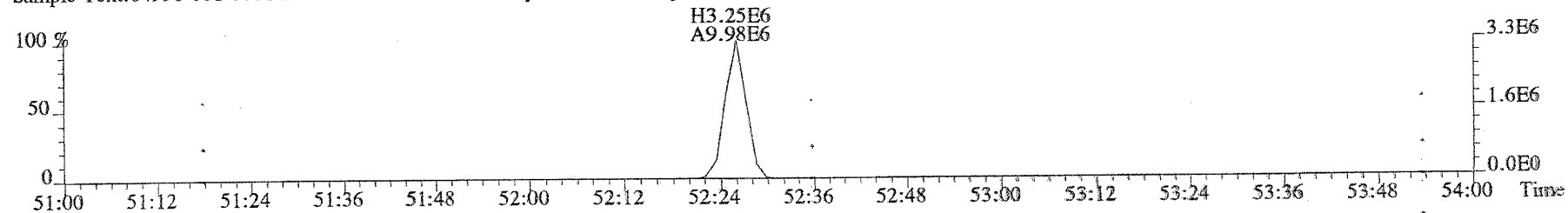
File:07AUG19Z #1-314 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-314 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-314 Acq: 7-AUG-2019 09:18:49 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-MB File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

FORM 8A
209 PCB ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory FAL ID: 04998-001-0001-OPR

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 07AUG19Z Sam:3

Ext. Date: 8/6/19 Shift: Day Analysis Date: 7-AUG-19 08:20:28

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	50.5	30.0 - 67.5
PCB-3	50	48.2	30.0 - 67.5
PCB-4	50	45.7	30.0 - 67.5
PCB-15	50	46.8	30.0 - 67.5
PCB-19	50	49.3	30.0 - 67.5
PCB-37	50	46.3	30.0 - 67.5
PCB-54	50	51.9	30.0 - 67.5
PCB-77	50	52.6	30.0 - 67.5
PCB-81	50	46.6	30.0 - 67.5
PCB-104	50	51.1	30.0 - 67.5
PCB-105	50	45.7	30.0 - 67.5
PCB-114	50	45.3	30.0 - 67.5
PCB-118	50	51.4	30.0 - 67.5
PCB-123	50	50.8	30.0 - 67.5
PCB-126	50	47.5	30.0 - 67.5
PCB-155	50	48.8	30.0 - 67.5
PCB-156	50	48.5	30.0 - 67.5
PCB-157	50	47.6	30.0 - 67.5
PCB-167	50	48.4	30.0 - 67.5
PCB-169	50	50.7	30.0 - 67.5
PCB-188	50	53.2	30.0 - 67.5
PCB-189	50	50.1	30.0 - 67.5
PCB-202	50	54.7	30.0 - 67.5
PCB-205	50	49.8	30.0 - 67.5
PCB-206	50	49.7	30.0 - 67.5
PCB-208	50	50.7	30.0 - 67.5
PCB-209	50	51.2	30.0 - 67.5

Analyst: Date: 8/8/19

Frontier Analytical Laboratory

FORM 8B

209 PCB ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory FAL ID: 04998-001-0001-OPR

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 07AUG19Z Sam:3

Ext. Date: 8/6/19 Shift: Day Analysis Date: 7-AUG-19 08:20:28

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	85.5	15.0 - 145
13C-PCB-3	100	87.2	15.0 - 145
13C-PCB-4	100	87.9	15.0 - 145
13C-PCB-15	100	88.3	15.0 - 145
13C-PCB-19	100	89.3	15.0 - 145
13C-PCB-37	100	86.8	15.0 - 145
13C-PCB-54	100	94.9	15.0 - 145
13C-PCB-77	100	82.6	40.0 - 145
13C-PCB-81	100	84.5	40.0 - 145
13C-PCB-104	100	90.0	40.0 - 145
13C-PCB-105	100	86.7	40.0 - 145
13C-PCB-114	100	88.4	40.0 - 145
13C-PCB-118	100	86.2	40.0 - 145
13C-PCB-123	100	89.3	40.0 - 145
13C-PCB-126	100	89.4	40.0 - 145
13C-PCB-155	100	86.3	40.0 - 145
13C-PCB-156	100	85.0	40.0 - 145
13C-PCB-157	100	87.9	40.0 - 145
13C-PCB-167	100	90.7	40.0 - 145
13C-PCB-169	100	84.4	40.0 - 145
13C-PCB-188	100	86.1	40.0 - 145
13C-PCB-189	100	88.8	40.0 - 145
13C-PCB-202	100	87.3	40.0 - 145
13C-PCB-205	100	86.7	40.0 - 145
13C-PCB-206	100	87.5	40.0 - 145
13C-PCB-208	100	87.2	40.0 - 145
13C-PCB-209	100	86.8	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	102	15.0 - 145
13C-PCB-111	100	91.3	40.0 - 145
13C-PCB-178	100	101	40.0 - 145

Analyst: [signature] Date: 8/8/19

FAL ID: 04998-001-0001-OPR Filename: 07AUG19Z Sam:3 Acquired: 7-AUG-19 08:20:28 ICal: DAILY209FAL4-8-7-19
Client ID: OPR ConCal: ST080719Z1 EndCal: ST080719Z2
Results: 12513 GC Column: DB1MS Amount: 1.000

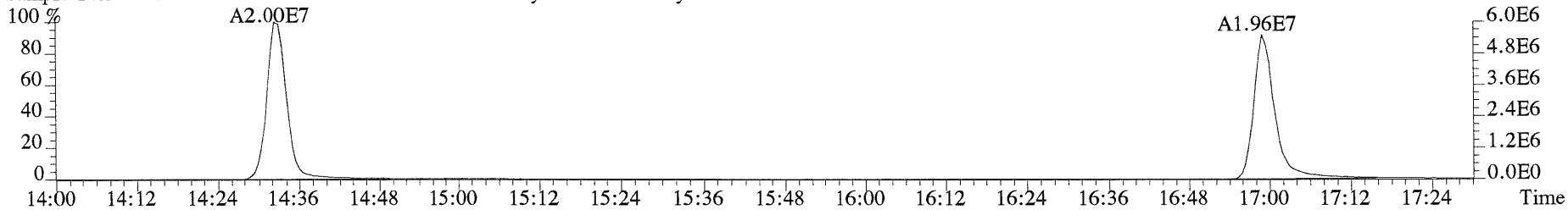
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	2.63e+07	3.14 y	14:32	1.11	50.5		2.50	-	-	*	
13C-PCB-1	4.69e+07	3.21 y	14:31	0.91	85.5		2.50				85.5
PCB-3	2.58e+07	3.13 y	16:59	1.15	48.2		2.50	-	-	*	
13C-PCB-3	4.64e+07	3.21 y	16:58	0.89	87.2		2.50				87.2
PCB-4	1.81e+07	1.53 y	18:13	1.16	45.7		2.50	-	-	*	
13C-PCB-4	3.41e+07	1.56 y	18:12	0.65	87.9		2.50				87.9
PCB-15	2.50e+07	1.55 y	23:45	1.08	46.8		2.50	-	-	*	
13C-PCB-15	4.94e+07	1.59 y	23:44	0.93	88.3		2.50				88.3
PCB-19	1.59e+07	1.06 y	22:06	1.19	49.3		2.50	-	-	*	
13C-PCB-19	2.72e+07	1.07 y	22:05	0.51	89.3		2.50				89.3
13C-PCB-9	6.01e+07	1.56 y	19:53	-	61.7		2.50				
PCB-37	1.67e+07	1.05 y	30:23	1.09	46.3		2.50	-	-	*	
13C-PCB-37	3.33e+07	1.07 y	30:22	1.32	86.8		2.50				86.8
PCB-54	2.14e+07	0.81 y	25:38	1.19	51.9		2.50	-	-	*	
13C-PCB-54	3.47e+07	0.82 y	25:36	1.26	94.9		2.50				94.9
PCB-104	1.45e+07	1.57 y	30:03	1.08	51.1		2.50	-	-	*	
13C-PCB-104	2.63e+07	1.55 y	30:02	1.00	90.0		2.50				90.0
13C-PCB-28	4.96e+07	1.05 y	26:41	1.67	102		2.50				102
13C-PCB-52	2.91e+07	0.82 y	28:56	-	59.1		2.50				
PCB-81	1.31e+07	0.77 y	36:08	1.17	46.6		2.50	-	-	*	
13C-PCB-81	2.40e+07	0.81 y	36:07	1.41	84.5		2.50				84.5
PCB-77	1.27e+07	0.78 y	36:42	1.00	52.6		2.50	-	-	*	
13C-PCB-77	2.43e+07	0.80 y	36:41	1.45	82.6		2.50				82.6
PCB-155	1.09e+07	1.29 y	34:12	1.01	48.8		2.50	-	-	*	
13C-PCB-155	2.21e+07	1.28 y	34:10	1.27	86.3		2.50				86.3
13C-PCB-111	2.28e+07	1.61 y	36:16	1.24	91.3		2.50				91.3
13C-PCB-101	2.02e+07	1.64 y	34:37	-	54.0		2.50				
PCB-123	1.09e+07	1.50 y	38:20	1.02	50.8		2.50	-	-	*	
13C-PCB-123	2.10e+07	1.57 y	38:18	1.21	89.3		2.50				89.3
PCB-118	1.21e+07	1.52 y	38:30	1.04	51.4		2.50	-	-	*	
13C-PCB-118	2.27e+07	1.62 y	38:28	1.36	86.2		2.50				86.2
PCB-114	1.11e+07	1.52 y	39:06	1.13	45.3		2.50	-	-	*	
13C-PCB-114	2.17e+07	1.60 y	39:06	1.26	88.4		2.50				88.4
PCB-105	1.09e+07	1.52 y	39:55	1.12	45.7		2.50	-	-	*	
13C-PCB-105	2.13e+07	1.60 y	39:54	1.26	86.7		2.50				86.7
PCB-126	1.04e+07	1.54 y	42:04	1.08	47.5		2.50	-	-	*	
13C-PCB-126	2.04e+07	1.56 y	42:02	1.17	89.4		2.50				89.4
PCB-167	1.06e+07	1.23 y	43:24	1.07	48.4		2.50	-	-	*	
13C-PCB-167	2.05e+07	1.29 y	43:23	1.16	90.7		2.50				90.7
PCB-156	1.06e+07	1.23 y	44:39	1.14	48.5		2.50	-	-	*	
13C-PCB-156	1.92e+07	1.28 y	44:37	1.16	85.0		2.50				85.0
PCB-157	1.03e+07	1.26 y	44:53	1.08	47.6		2.50	-	-	*	
13C-PCB-157	2.00e+07	1.25 y	44:52	1.17	87.9		2.50				87.9
PCB-169	1.02e+07	1.24 y	46:45	1.05	50.7		2.50	-	-	*	
13C-PCB-169	1.91e+07	1.26 y	46:44	1.16	84.4		2.50				84.4
PCB-188	1.11e+07	1.05 y	39:41	1.09	53.2		2.50	-	-	*	
13C-PCB-188	1.93e+07	1.06 y	39:41	1.15	86.1		2.50				86.1
PCB-189	9.83e+06	1.05 y	48:24	1.12	50.1		2.50	-	-	*	
13C-PCB-189	1.75e+07	1.10 y	48:24	1.01	88.8		2.50				88.8
PCB-202	8.75e+06	0.92 y	44:48	0.98	54.7		2.50	-	-	*	
13C-PCB-202	1.63e+07	0.90 y	44:47	0.96	87.3		2.50				87.3
13C-PCB-178	1.45e+07	1.08 y	42:19	0.74	101		2.50				101
13C-PCB-138	1.95e+07	1.26 y	41:31	-	53.6		2.50				

FAL ID: 04998-001-0001-OPR Filename: 07AUG19Z Sam:3 Acquired: 7-AUG-19 08:20:28 ICal: DAILY209FAL4-8-7-19 2 of 2
Client ID: OPR ConCal: ST080719Z1 EndCal: ST080719Z2
Results: 12513 GC Column: DB1MS Amount: 1.000

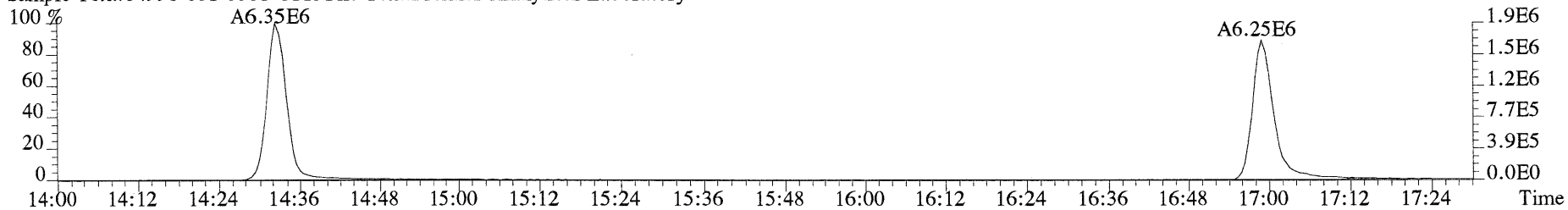
PCB-205	1.03e+07	0.88 y	50:05	1.05	49.8	2.50	-	-	*	
13C-PCB-205	1.97e+07	0.88 y	50:03	1.30	86.7	2.50				86.7
PCB-208	1.03e+07	1.33 y	49:08	1.00	50.7	2.50	-	-	*	
13C-PCB-208	2.04e+07	0.81 y	49:07	1.34	87.2	2.50				87.2
PCB-206	7.56e+06	1.36 y	51:15	1.05	49.7	2.50	-	-	*	
13C-PCB-206	1.45e+07	0.78 y	51:15	0.95	87.5	2.50				87.5
PCB-209	1.06e+07	1.18 y	52:27	1.11	51.2	2.50	-	-	*	
13C-PCB-209	1.87e+07	1.20 y	52:26	1.24	86.8	2.50				86.8
13C-PCB-194	1.74e+07	0.93 y	49:48	-	54.2	2.50				

Analyst: _____ Date: 8/8/19

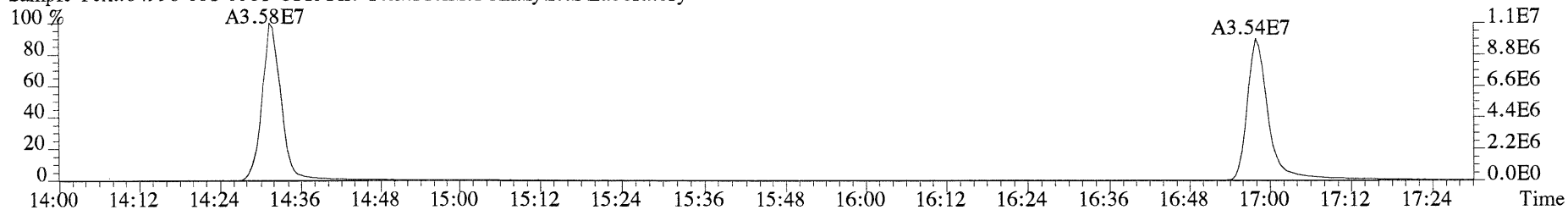
File:07AUG19Z #1-783 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



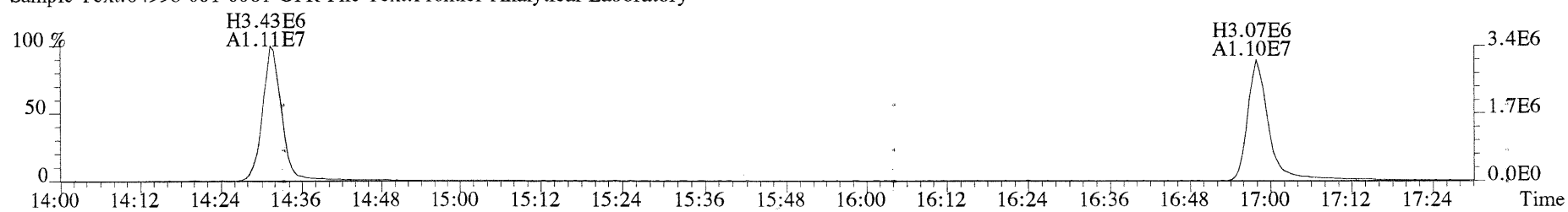
File:07AUG19Z #1-783 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



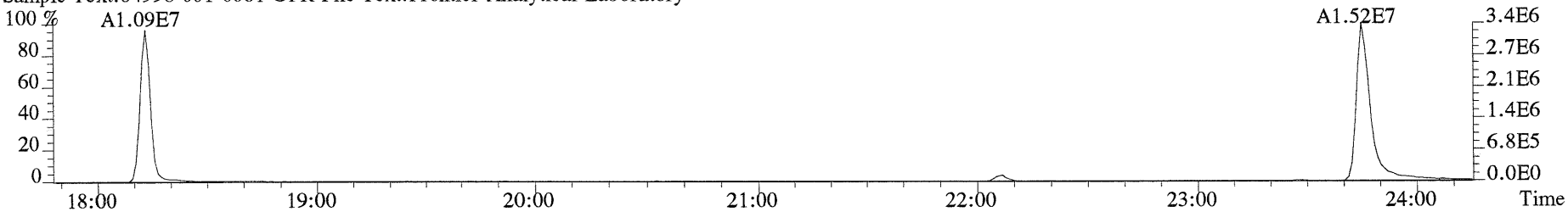
File:07AUG19Z #1-783 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



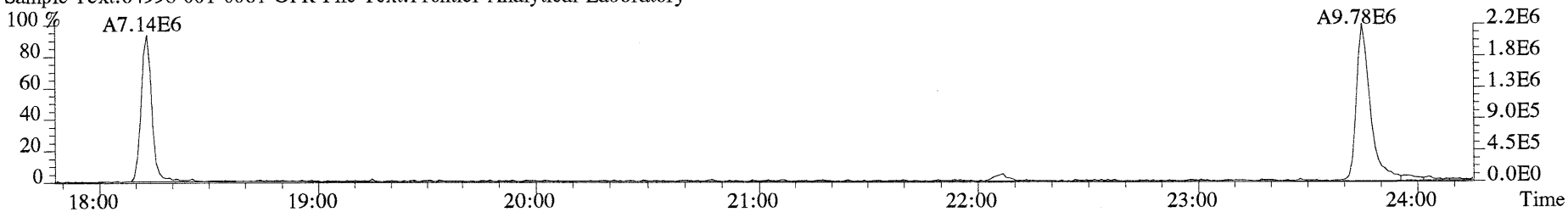
File:07AUG19Z #1-783 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



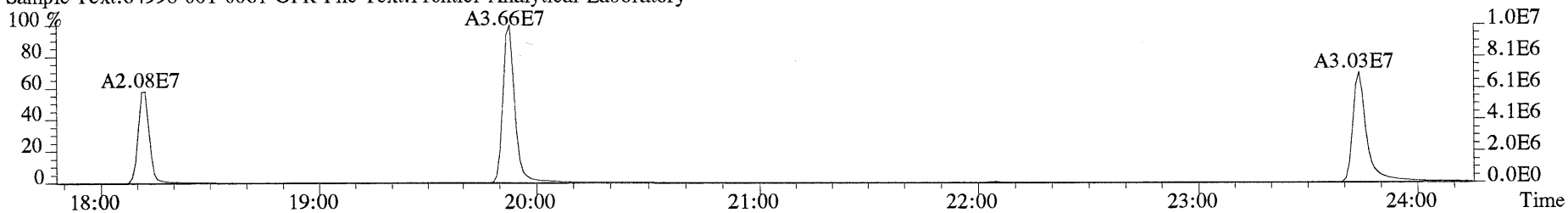
File:07AUG19Z #1-520 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



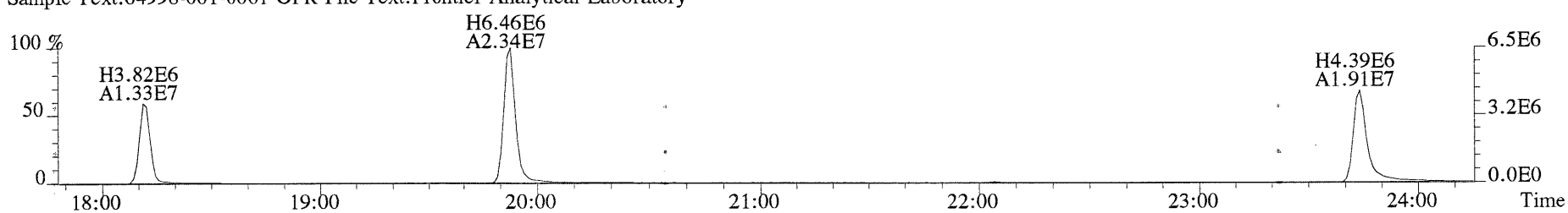
File:07AUG19Z #1-520 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



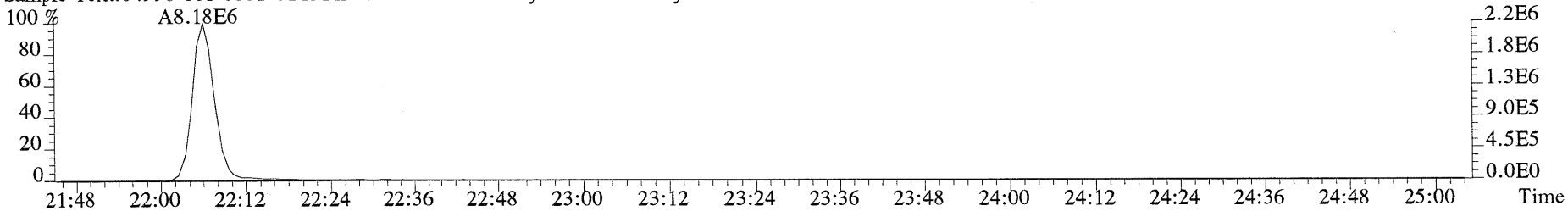
File:07AUG19Z #1-520 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



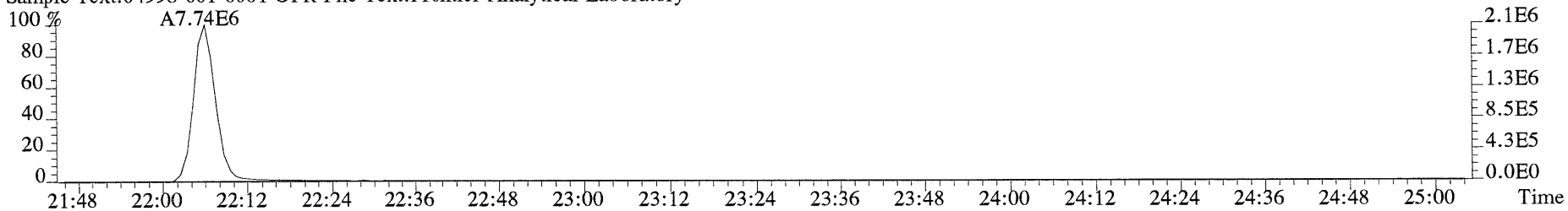
File:07AUG19Z #1-520 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



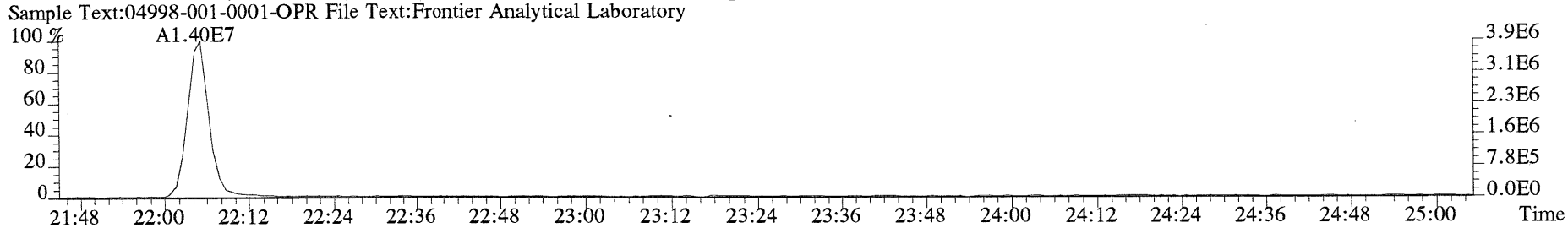
File:07AUG19Z #1-520 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



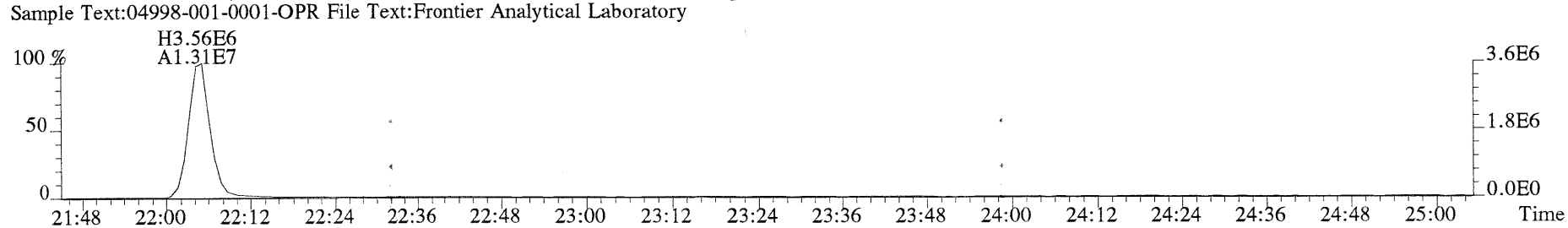
File:07AUG19Z #1-520 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



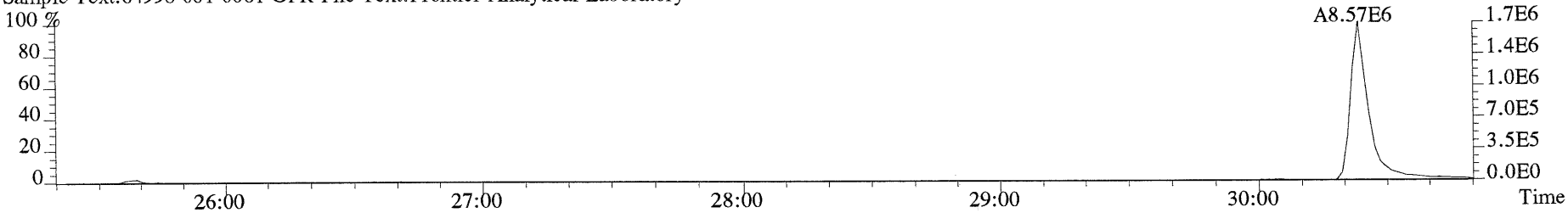
File:07AUG19Z #1-520 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



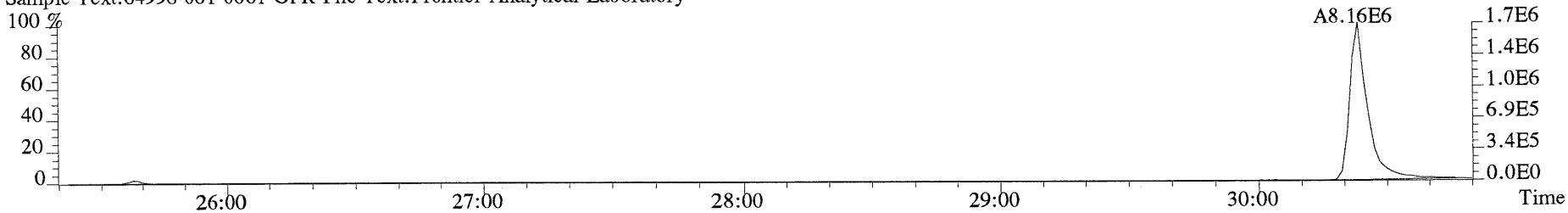
File:07AUG19Z #1-520 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



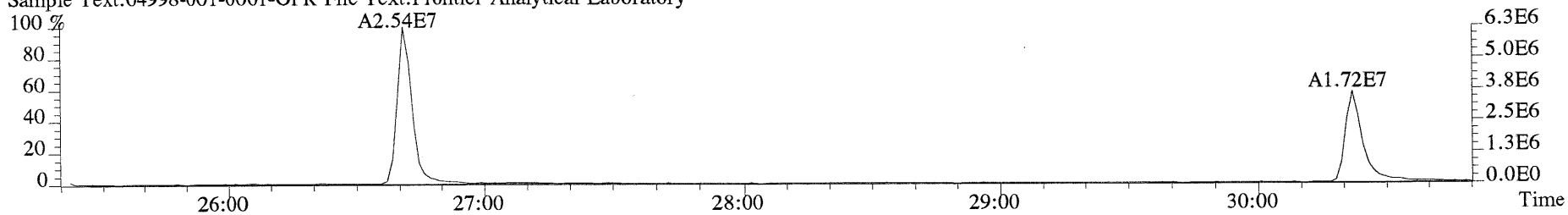
File:07AUG19Z #1-401 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



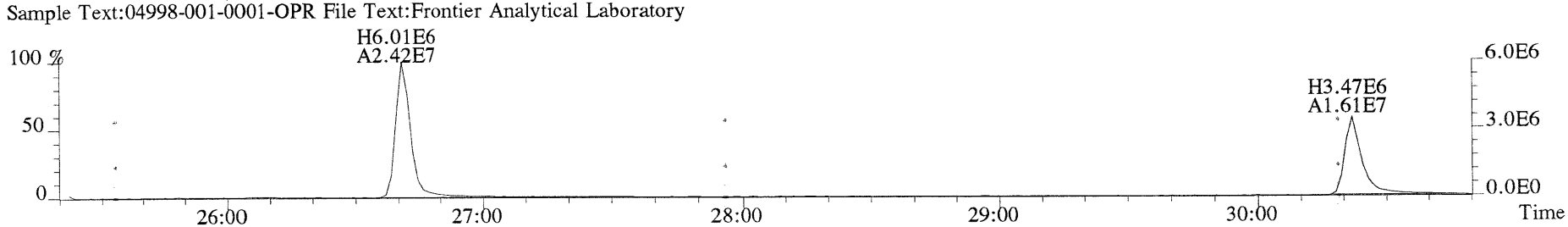
File:07AUG19Z #1-401 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



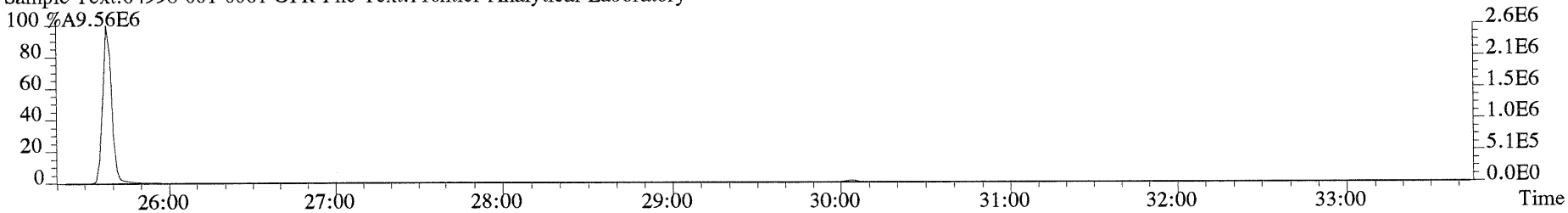
File:07AUG19Z #1-401 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



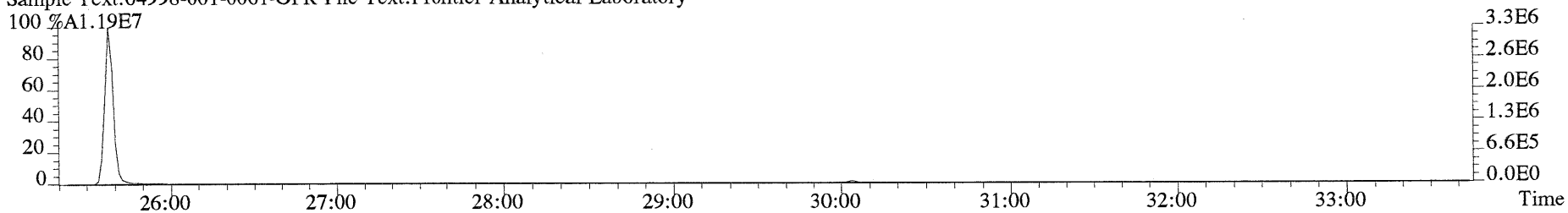
File:07AUG19Z #1-401 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



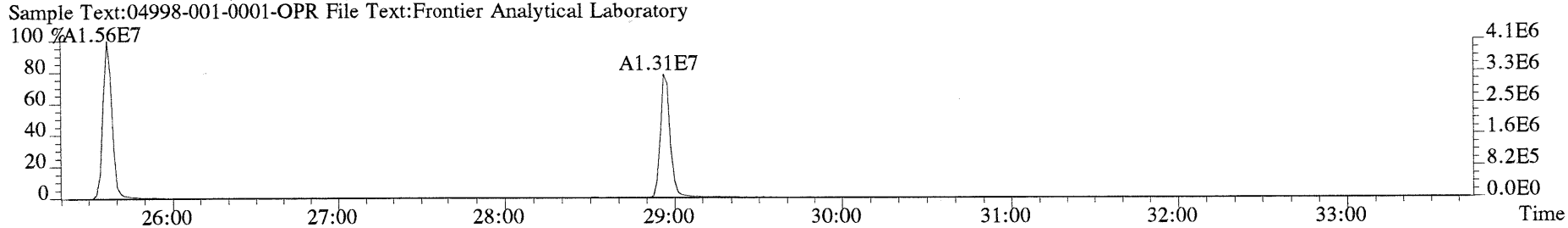
File:07AUG19Z #1-401 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



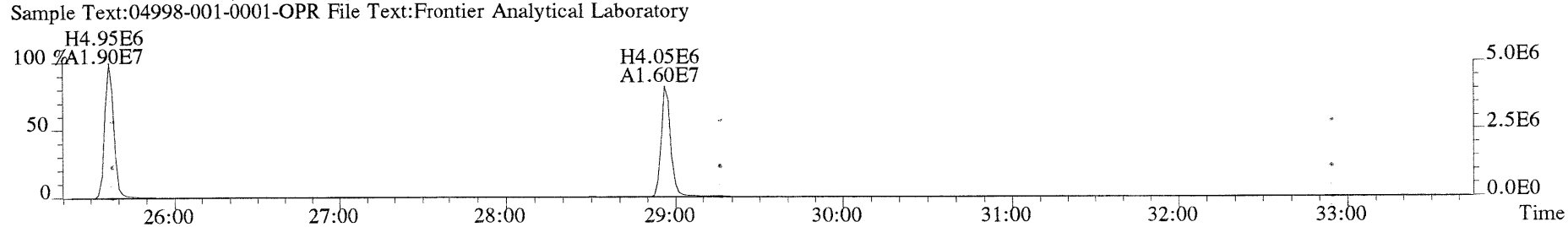
File:07AUG19Z #1-401 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



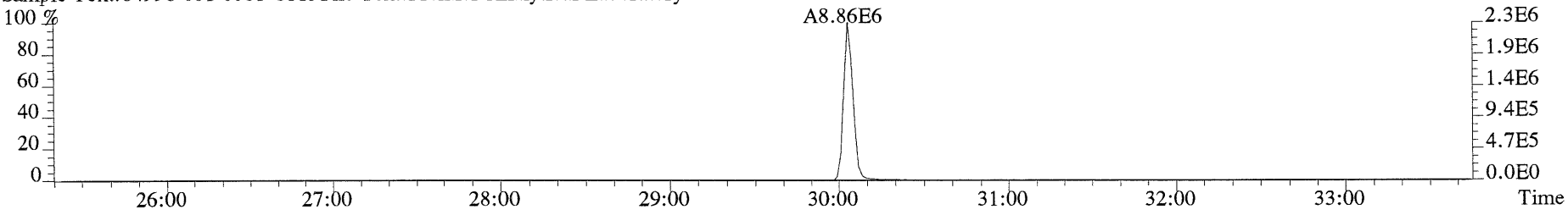
File:07AUG19Z #1-401 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



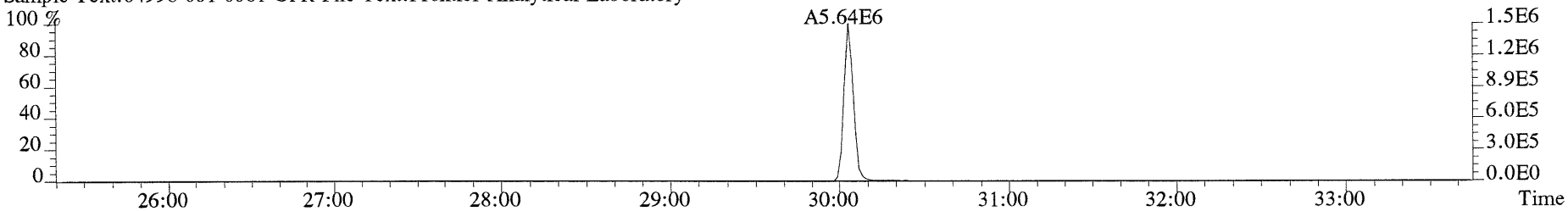
File:07AUG19Z #1-401 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



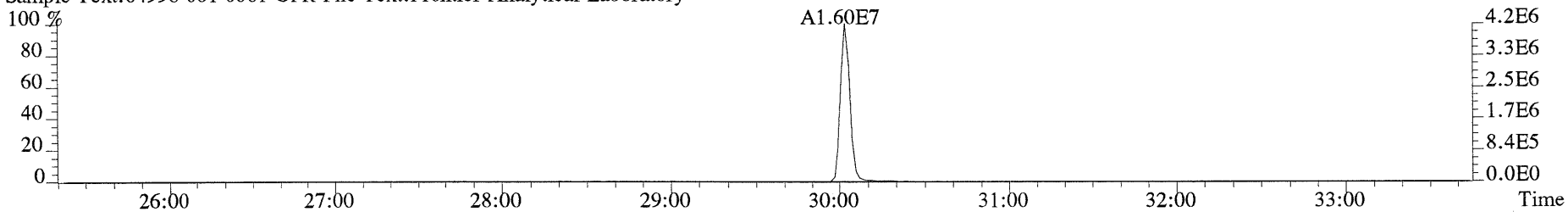
File:07AUG19Z #1-401 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



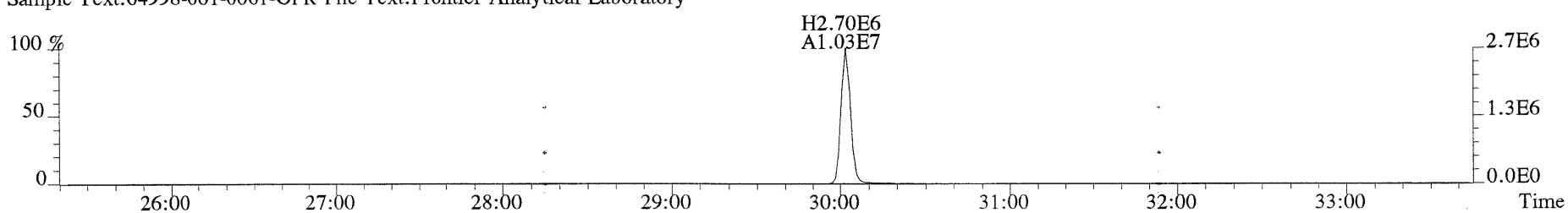
File:07AUG19Z #1-401 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



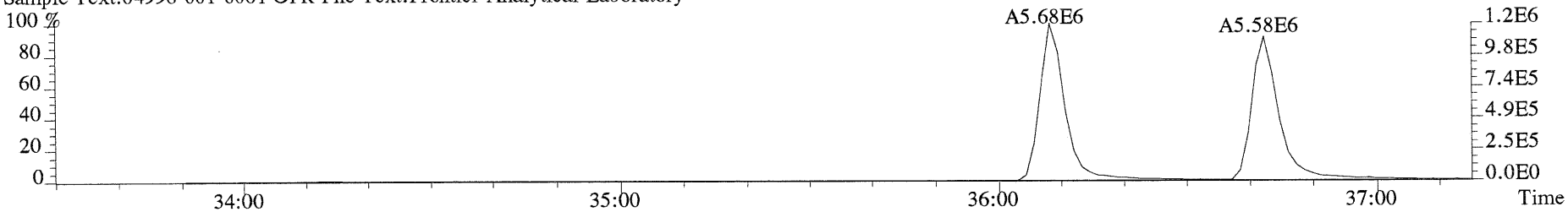
File:07AUG19Z #1-401 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



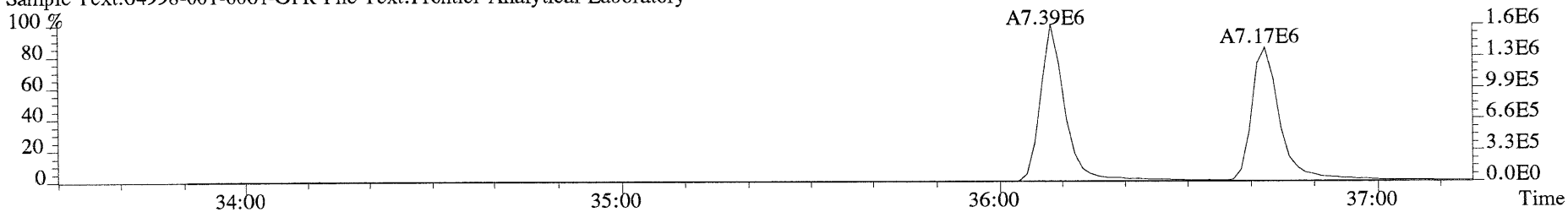
File:07AUG19Z #1-401 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



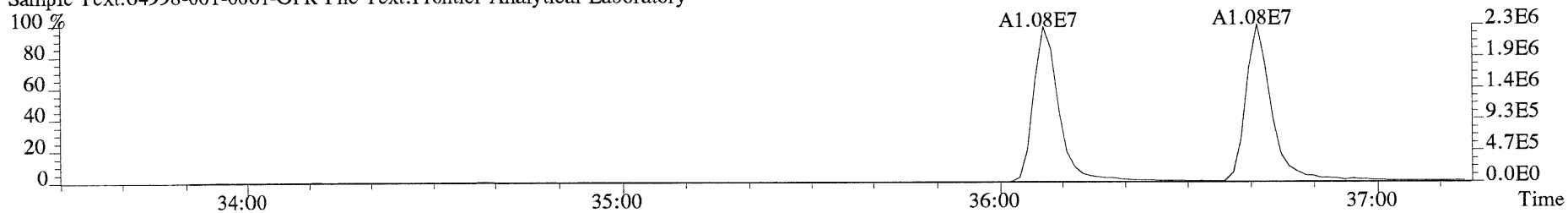
File:07AUG19Z #1-181 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



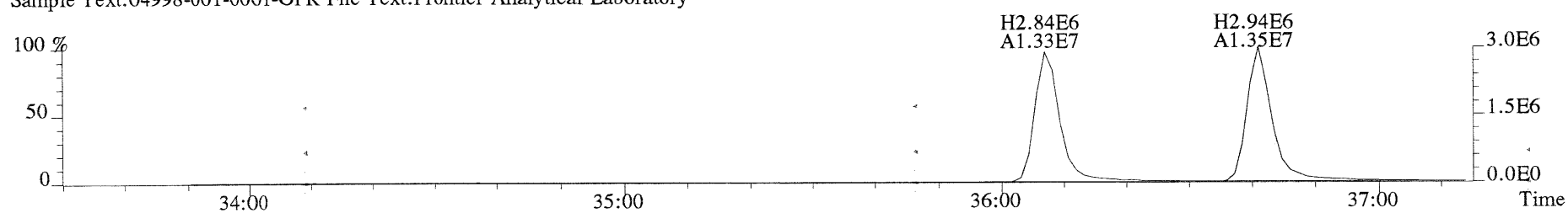
File:07AUG19Z #1-181 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



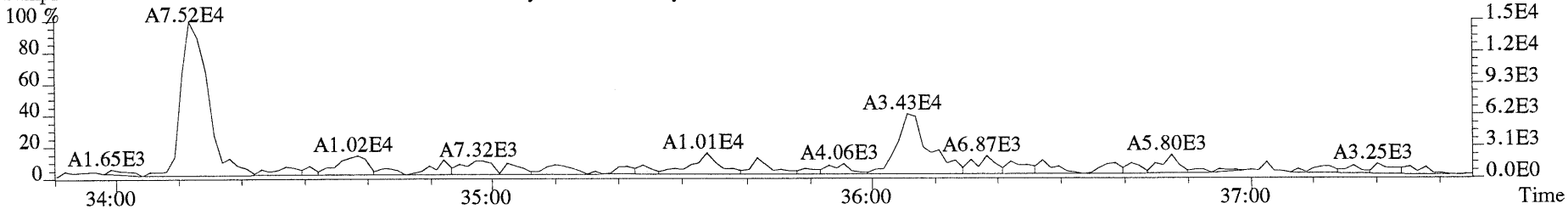
File:07AUG19Z #1-181 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



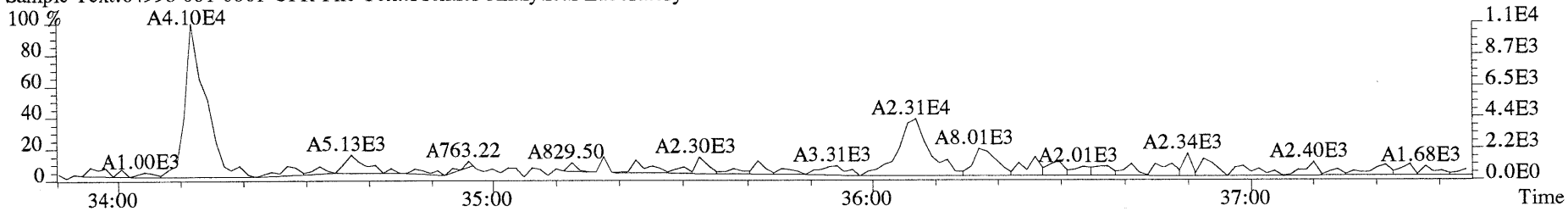
File:07AUG19Z #1-181 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



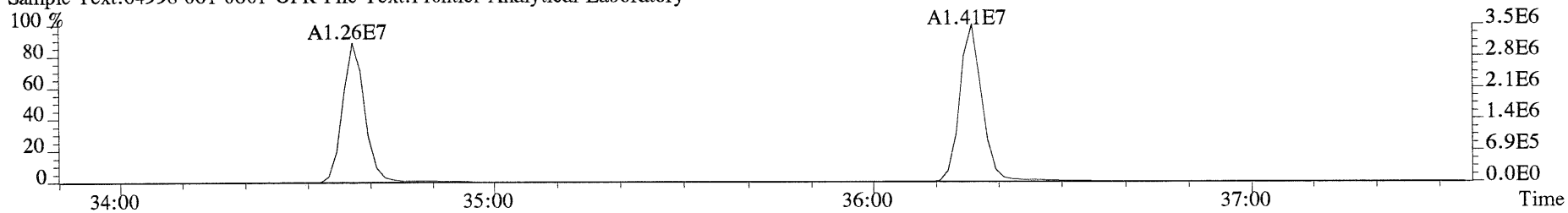
File:07AUG19Z #1-181 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



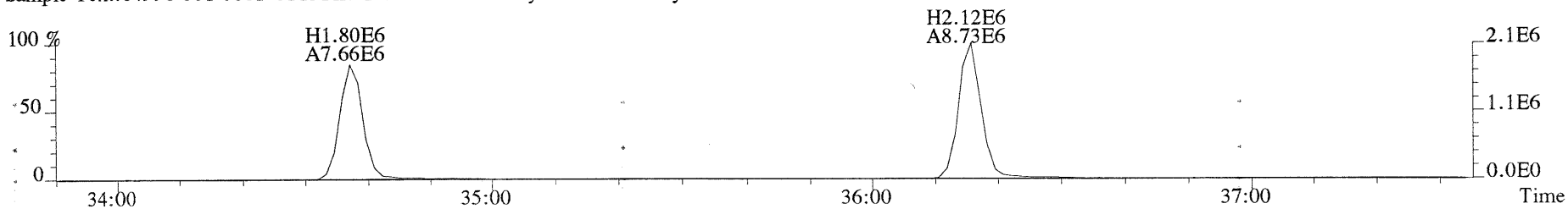
File:07AUG19Z #1-181 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



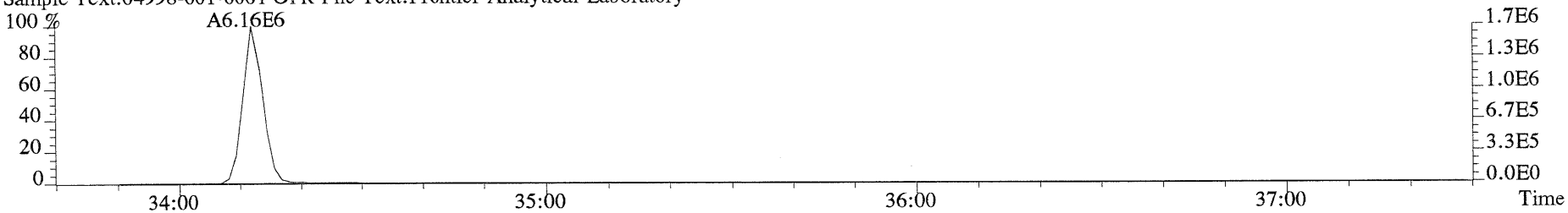
File:07AUG19Z #1-181 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



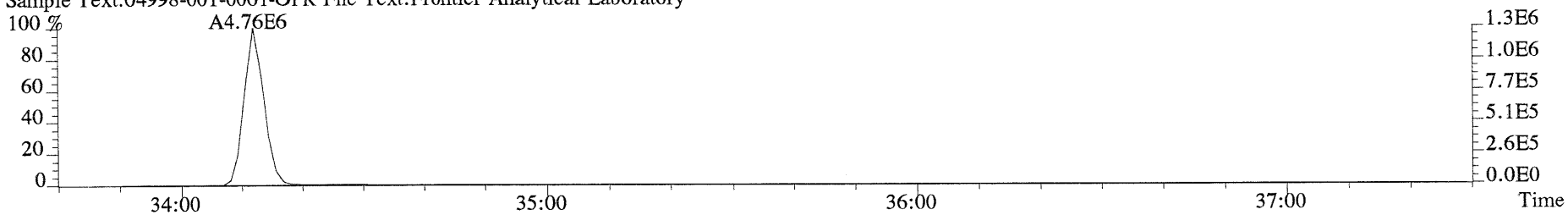
File:07AUG19Z #1-181 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



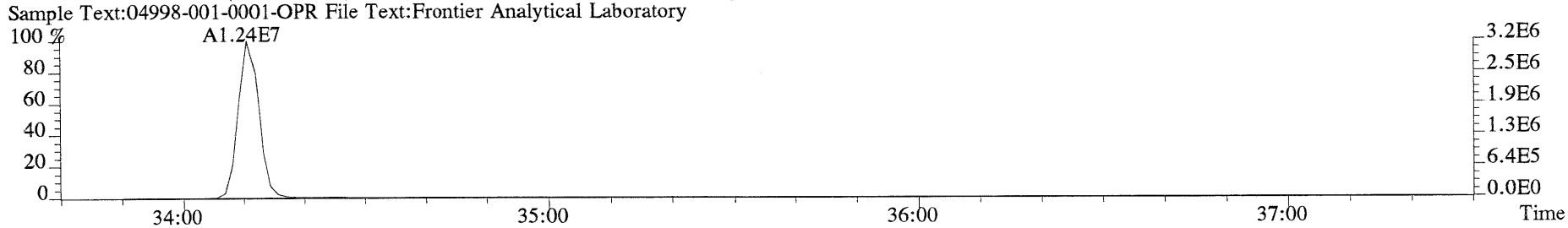
File:07AUG19Z #1-181 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



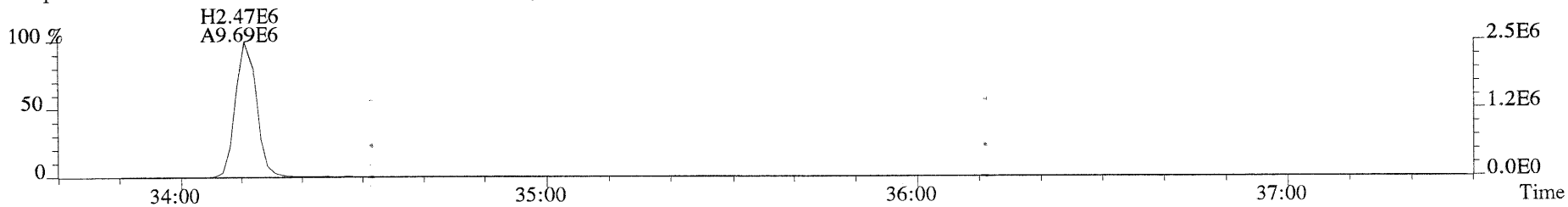
File:07AUG19Z #1-181 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



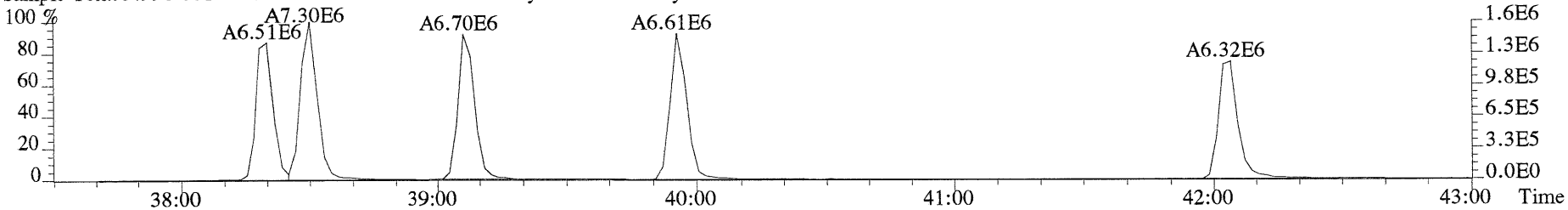
File:07AUG19Z #1-181 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



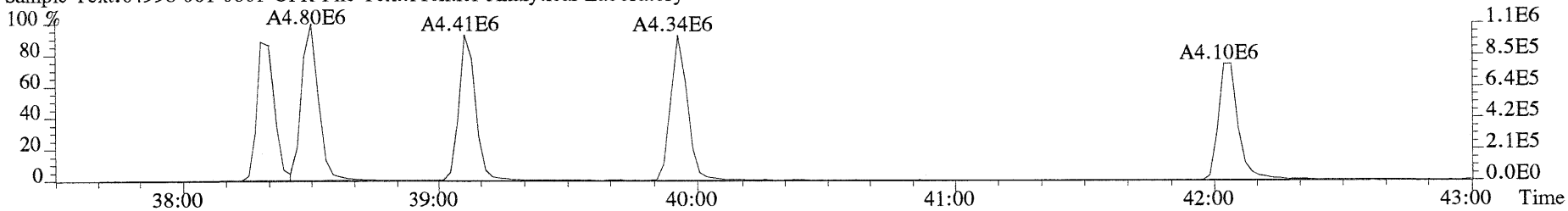
File:07AUG19Z #1-181 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



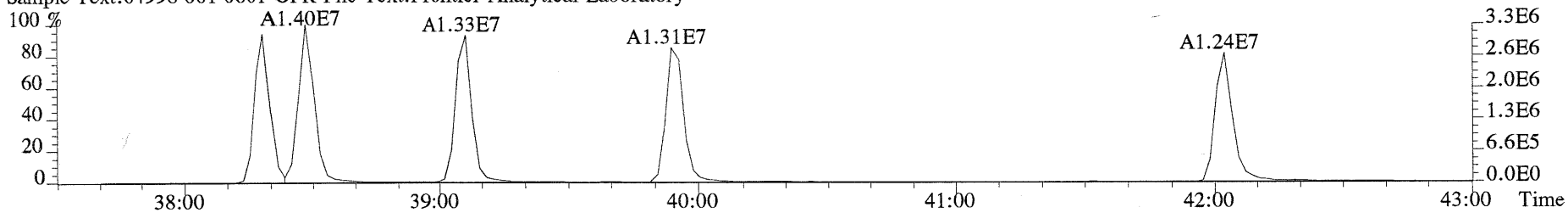
File:07AUG19Z #1-405 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



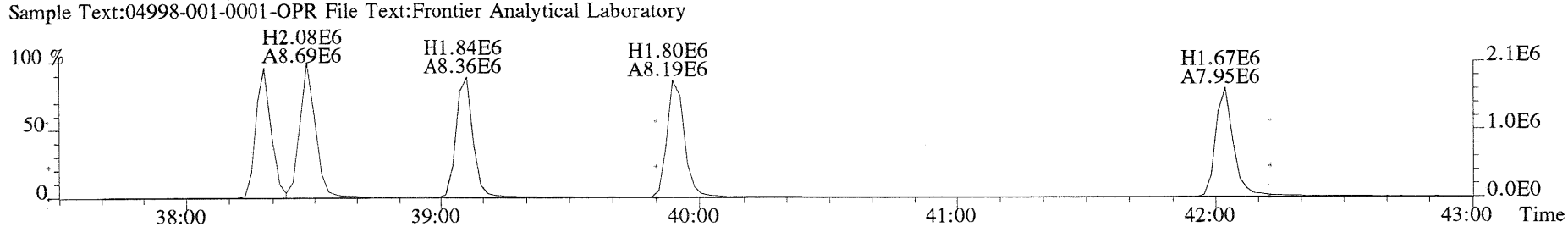
File:07AUG19Z #1-405 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



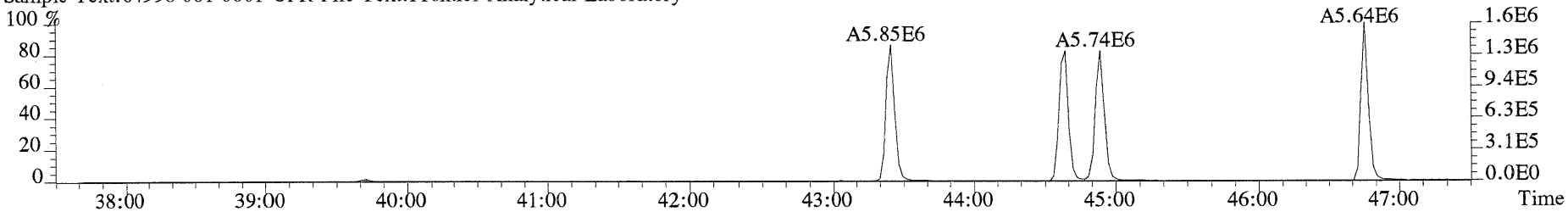
File:07AUG19Z #1-405 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



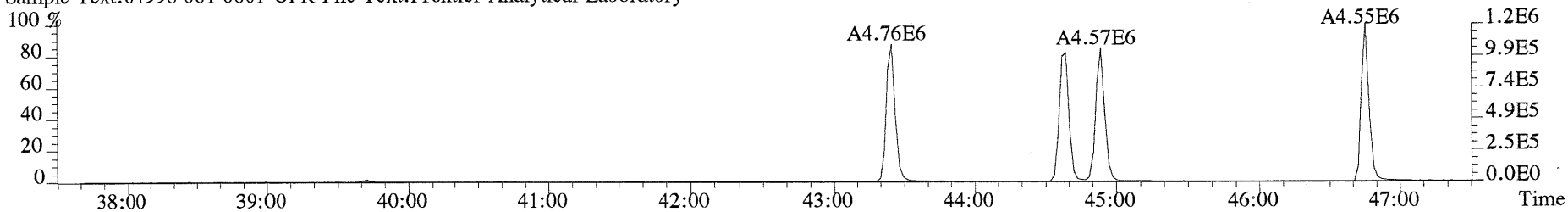
File:07AUG19Z #1-405 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



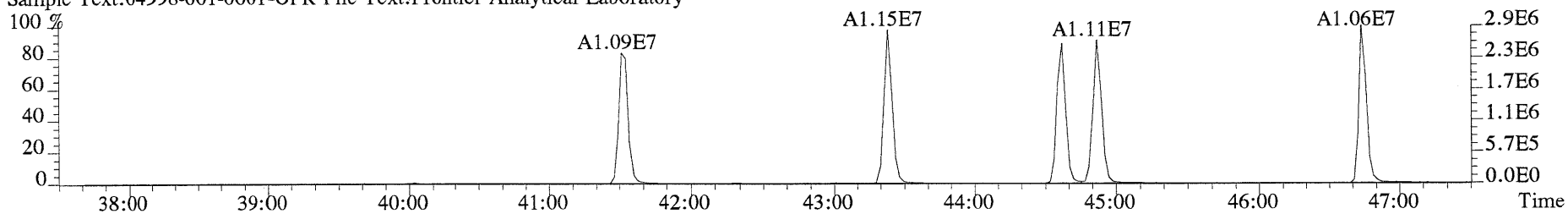
File:07AUG19Z #1-405 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



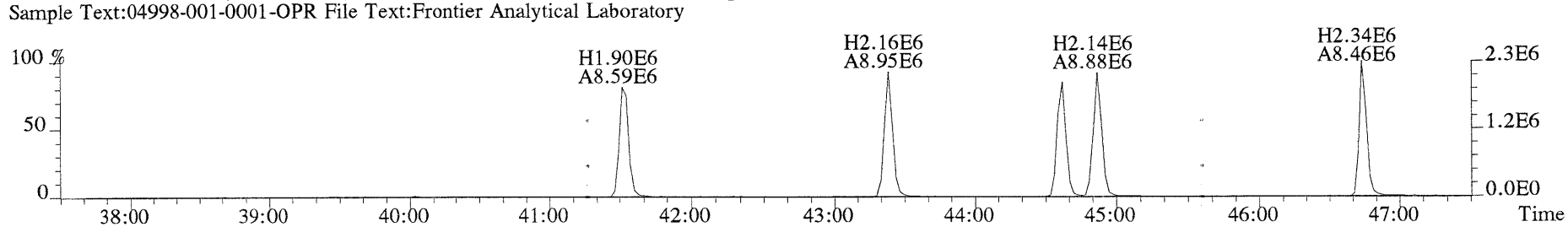
File:07AUG19Z #1-405 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



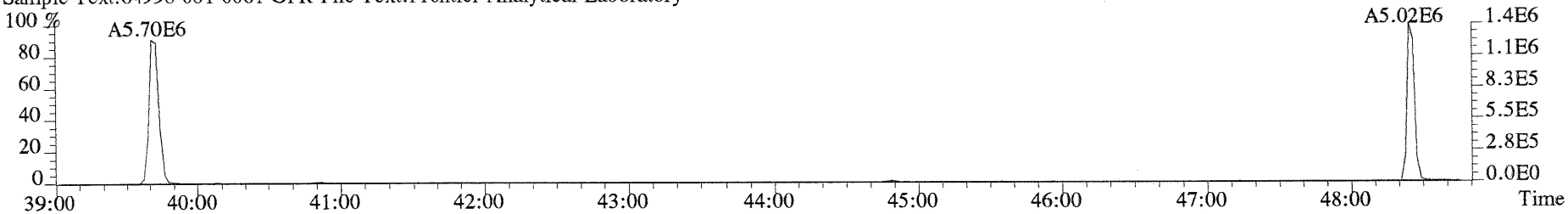
File:07AUG19Z #1-405 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



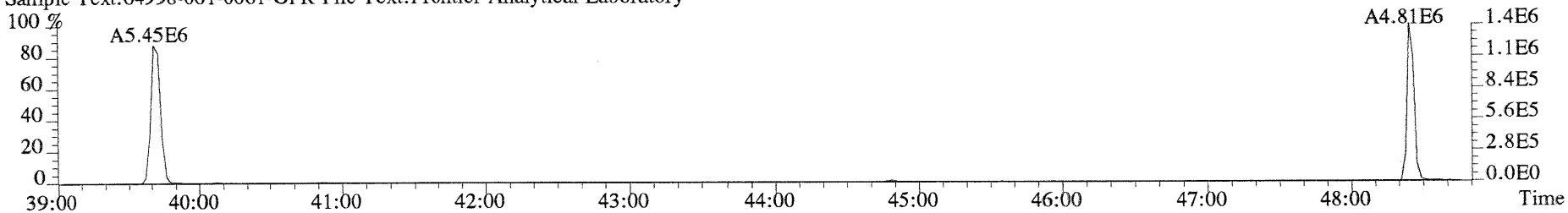
File:07AUG19Z #1-405 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



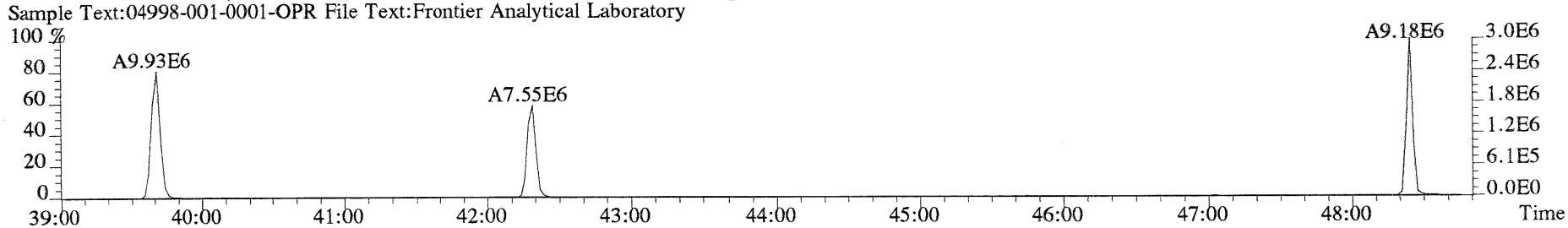
File:07AUG19Z #1-405 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



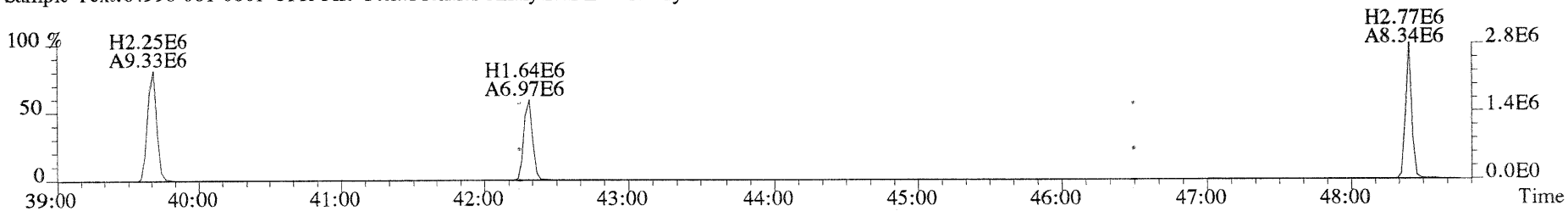
File:07AUG19Z #1-405 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



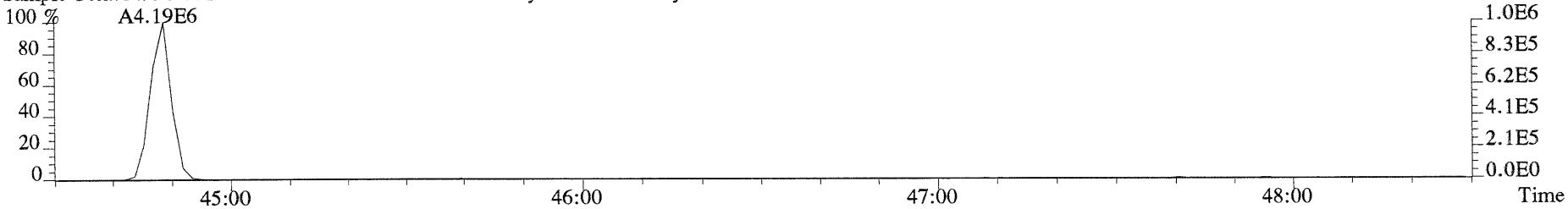
File:07AUG19Z #1-405 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



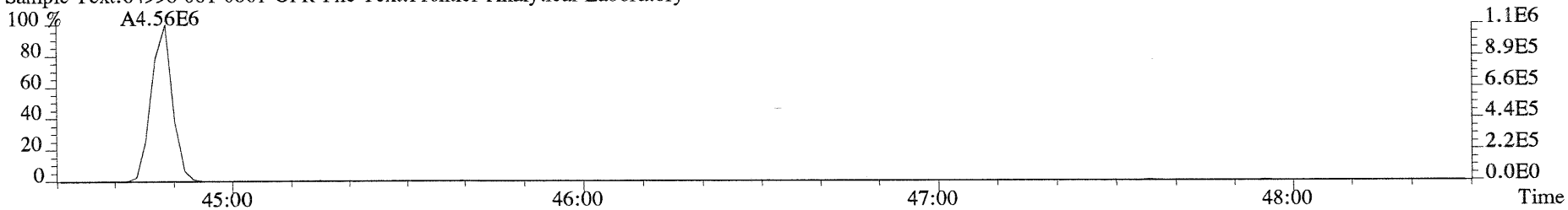
File:07AUG19Z #1-405 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



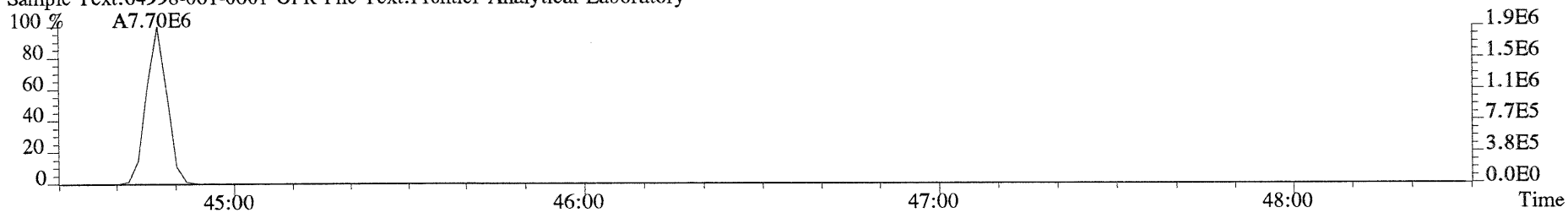
File:07AUG19Z #1-405 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



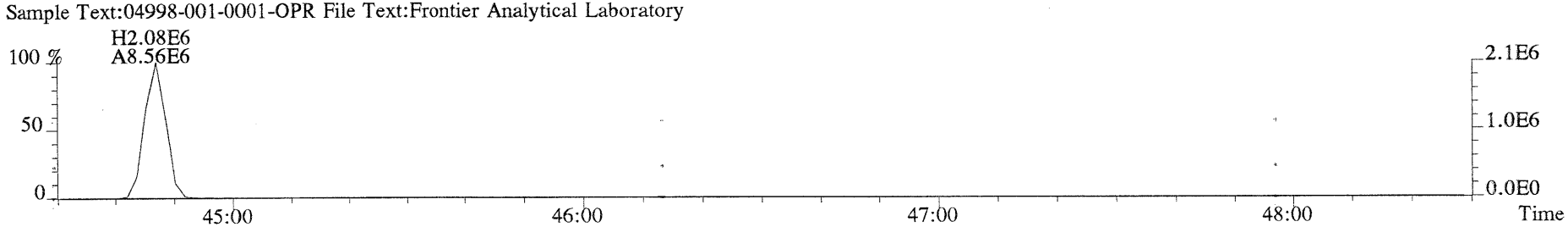
File:07AUG19Z #1-405 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



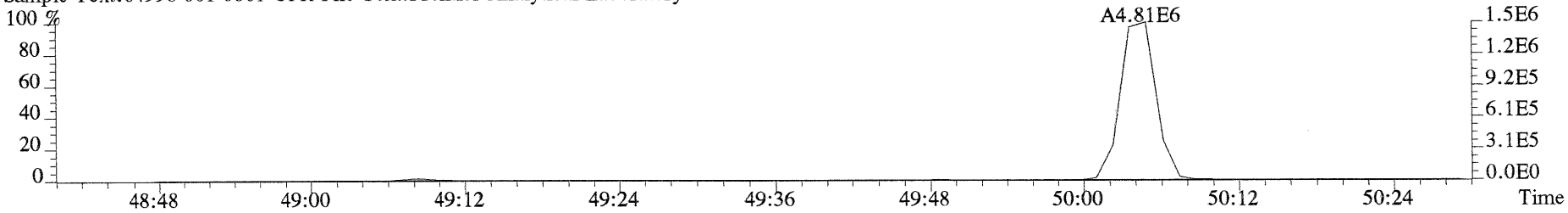
File:07AUG19Z #1-405 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



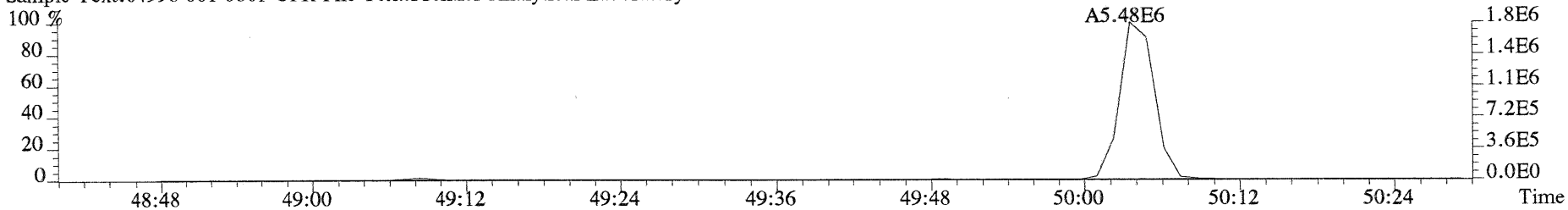
File:07AUG19Z #1-405 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



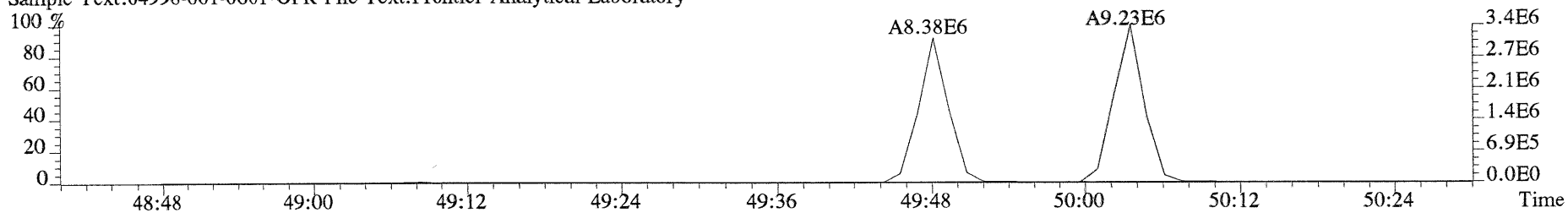
File:07AUG19Z #1-315 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



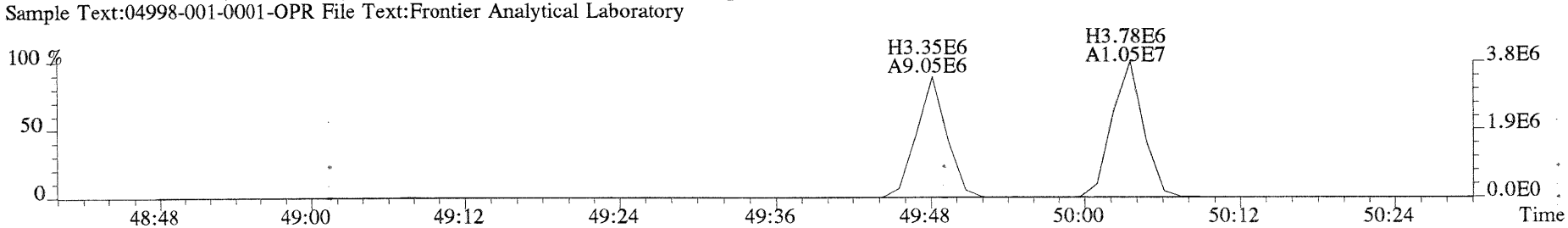
File:07AUG19Z #1-315 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



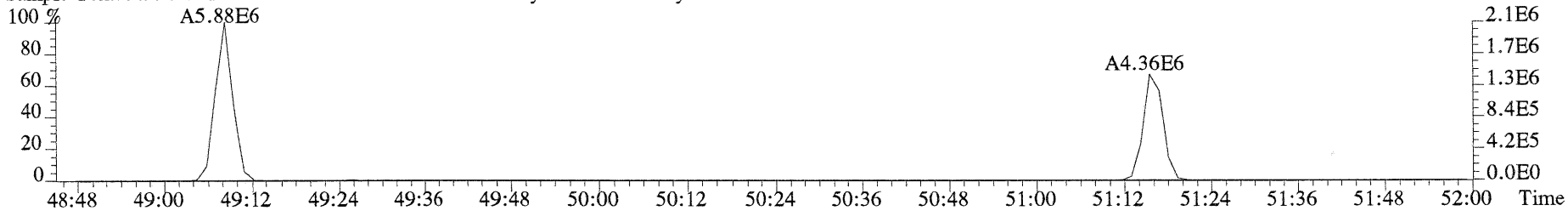
File:07AUG19Z #1-315 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



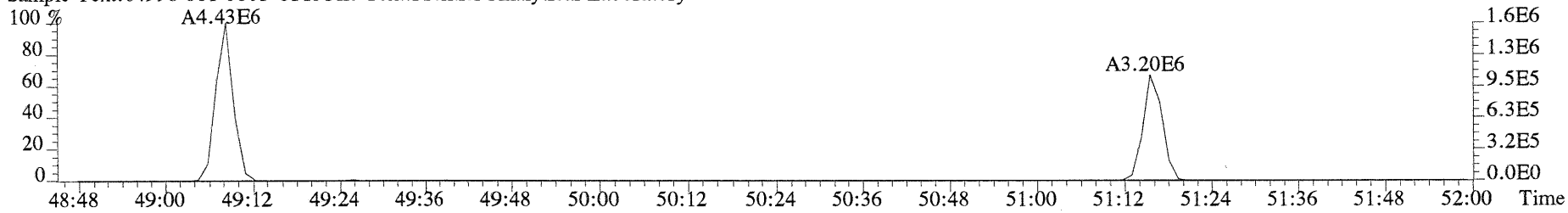
File:07AUG19Z #1-315 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



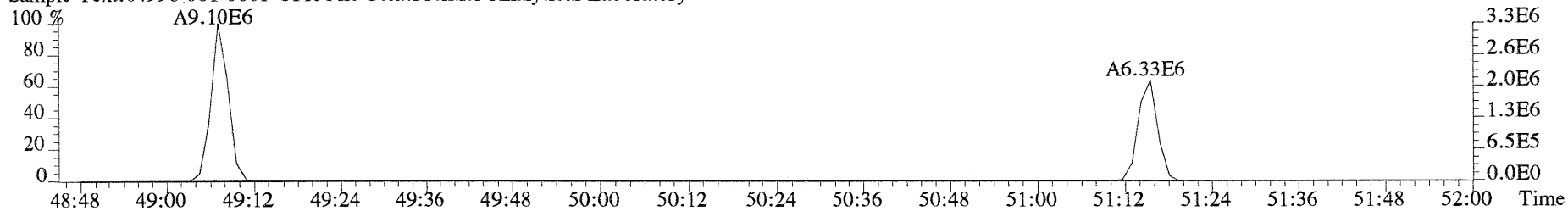
File:07AUG19Z #1-315 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



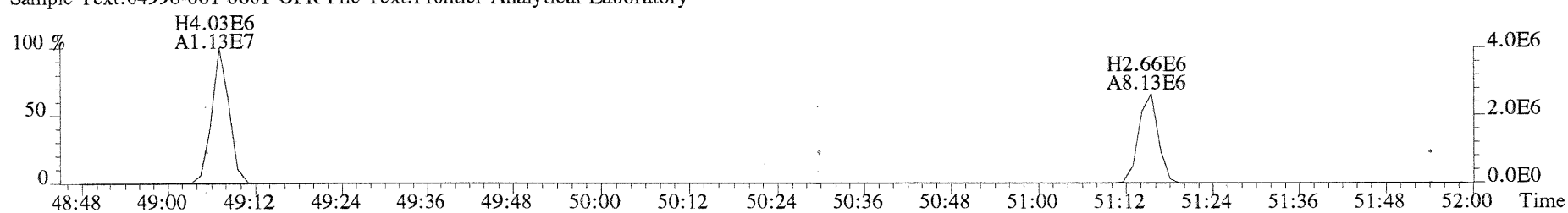
File:07AUG19Z #1-315 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



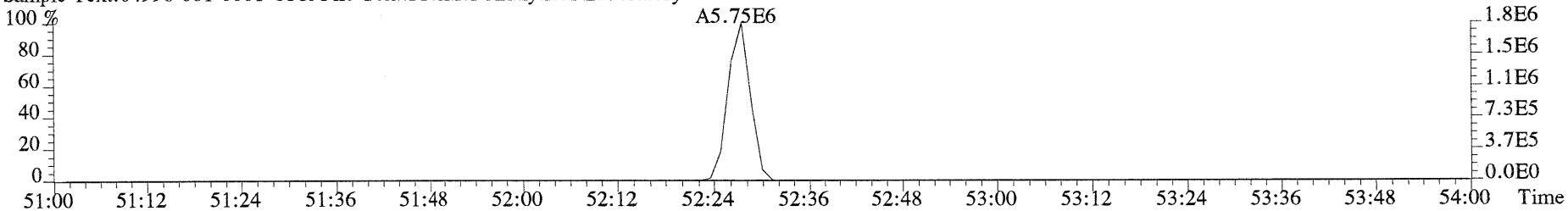
File:07AUG19Z #1-315 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



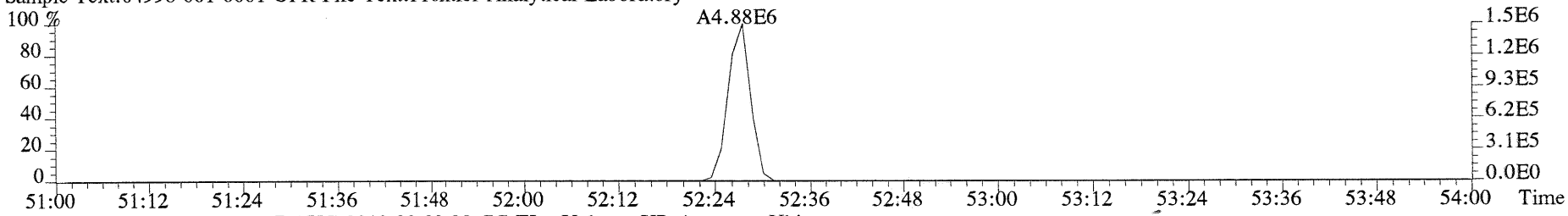
File:07AUG19Z #1-315 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



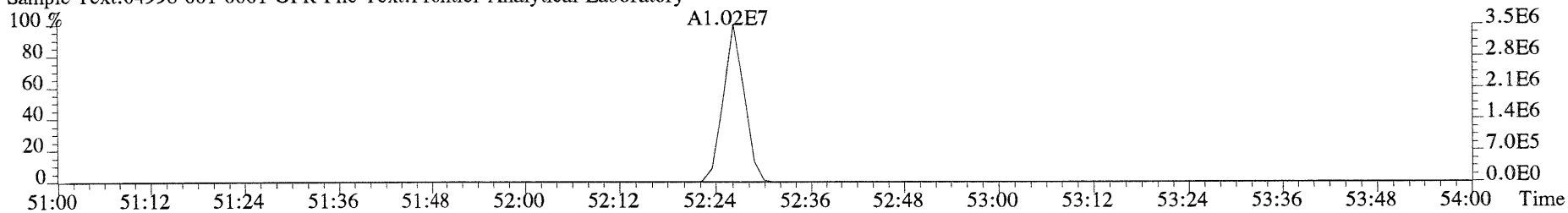
File:07AUG19Z #1-315 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



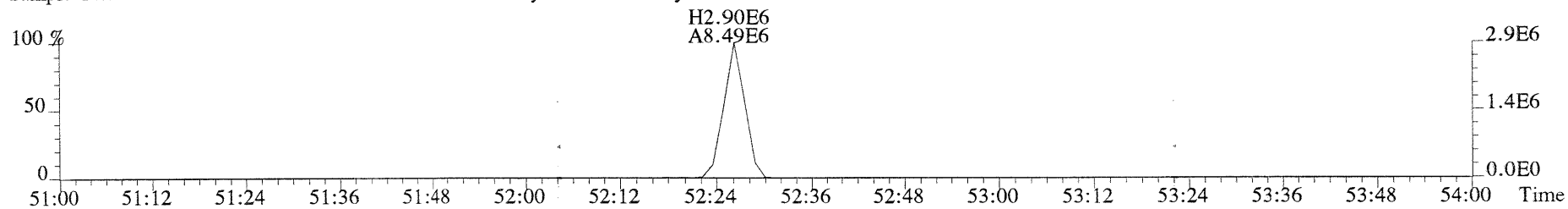
File:07AUG19Z #1-315 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-315 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-315 Acq: 7-AUG-2019 08:20:28 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04998-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 12513-002-0001-SA Filename: 07AUG19Z Sam:5 Acquired: 7-AUG-19 10:17:10 ICal: DAILY209FAL4-8-7-19
Client ID: LDW-Y2-SC-ENR+AC-CB-SSWI ConCal: ST080719Z1 EndCal: ST080719Z2
Results: 12513 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	1.11	*		1550	1080	2.79	
13C-PCB-1	6.29e+07	3.26	y	14:32	0.91	8230					82.3
PCB-2	*	*	n	NotFnd	1.13	*		1550	1080	2.99	
PCB-3	*	*	n	NotFnd	1.15	*		1550	1080	3.19	
13C-PCB-3	6.33e+07	3.20	y	16:58	0.89	8550					85.5
PCB-4	5.23e+05	1.62	y	18:12	1.16	94.8		-	-	*	
PCB-10	5.98e+04	1.43	y	18:17	1.28	7.66	J	-	-	*	
13C-PCB-4	4.75e+07	1.61	y	18:12	0.65	8800					88.0
PCB-9	1.22e+05	1.47	y	19:53	1.40	14.3	J	-	-	*	
PCB-7	9.19e+04	1.41	y	19:56	1.36	11.0	J	-	-	*	
PCB-6	4.76e+05	1.46	y	20:31	1.38	56.2		-	-	*	
PCB-8	2.32e+06	1.33	y	20:53	1.34	283		-	-	*	
PCB-5	*	*	n	NotFnd	1.34	*		797	3000	4.54	
PCB-14	1.33e+06	1.46	y	21:57	1.32	164		-	-	*	
PCB-11	1.61e+05	1.52	y	23:05	1.20	21.8		-	-	*	
PCB-13	4.35e+04	1.39	y	23:26	1.18	6.03	J	-	-	*	
PCB-12	5.32e+04	1.57	y	23:27	1.23	7.05	J	-	-	*	
PCB-15	6.71e+05	1.44	y	23:44	1.08	83.0		-	-	*	
13C-PCB-15	7.50e+07	1.63	y	23:43	0.93	9620					96.2
PCB-19	5.13e+05	1.07	y	22:05	1.19	115		-	-	*	
PCB-30	*	*	n	NotFnd	1.77	*		1430	408	2.43	
PCB-18	4.05e+06	1.06	y	23:38	1.18	913		-	-	*	
PCB-17	1.76e+06	1.09	y	23:48	1.29	362		-	-	*	
PCB-27	2.74e+05	1.06	y	24:19	1.74	41.9		-	-	*	
PCB-24	2.82e+05	1.14	y	24:20	1.64	45.6		-	-	*	
PCB-16	1.70e+06	1.04	y	24:49	1.36	332		-	-	*	
PCB-32	1.42e+06	1.09	y	24:50	1.53	246		-	-	*	
13C-PCB-19	3.76e+07	1.09	y	22:04	0.51	8880					88.8
13C-PCB-9	8.36e+07	1.61	y	19:52	-	85.8					
PCB-34	*	*	n	NotFnd	1.14	*		2300	1300	6.95	
PCB-23	*	*	n	NotFnd	1.35	*		2300	1300	5.83	
PCB-29	*	*	n	NotFnd	1.30	*		2300	1300	6.05	
PCB-26	9.10e+05	1.04	y	26:07	1.24	121		-	-	*	
PCB-25	5.43e+05	1.14	y	26:17	1.22	73.4		-	-	*	
PCB-31	4.26e+06	1.01	y	26:37	1.28	553		-	-	*	
PCB-28	5.31e+06	1.04	y	26:42	1.42	621		-	-	*	
PCB-20	3.19e+06	1.03	y	27:18	1.18	448		-	-	*	Co-elute PCB 21/33
PCB-21	3.19e+06	1.03	y	27:18	1.18	448		-	-	*	Co-elute PCB 20/33
PCB-33	3.19e+06	1.03	y	27:18	1.18	448		-	-	*	Co-elute PCB 20/21
PCB-22	1.72e+06	1.08	y	27:42	1.23	231		-	-	*	
PCB-36	1.75e+06	1.14	y	28:18	1.18	247		-	-	*	
PCB-39	*	*	n	NotFnd	1.17	*		2300	1300	6.76	
PCB-38	*	*	n	NotFnd	1.17	*		2300	1300	6.74	
PCB-35	*	*	n	NotFnd	1.03	*		2300	1300	7.63	
PCB-37	7.57e+05	1.02	y	30:22	1.09	116		-	-	*	
13C-PCB-37	6.03e+07	1.07	y	30:21	1.32	9180					91.8

PCB-54	2.62e+04	0.68	y	25:38	1.19	4.90	J	-	-	*	
PCB-50	2.69e+04	0.86	y	26:44	0.93	6.40	J	-	-	*	
PCB-53	5.74e+05	0.78	y	27:20	0.92	139		-	-	*	
PCB-51	1.72e+05	0.79	y	27:39	0.96	40.0		-	-	*	
PCB-45	5.51e+05	0.82	y	28:04	0.79	155		-	-	*	
PCB-46	2.16e+05	0.77	y	28:31	0.75	64.3		-	-	*	
PCB-52	2.49e+06	0.76	y	28:58	0.93	593		-	-	*	Co-elute PCB 69
PCB-69	2.49e+06	0.76	y	28:58	0.93	593		-	-	*	Co-elute PCB 52
PCB-73	6.68e+04	0.80	y	29:04	1.15	13.0	J	-	-	*	
PCB-43	1.75e+06	0.81	y	29:15	0.81	481		-	-	*	Co-elute PCB 49
PCB-49	1.75e+06	0.81	y	29:15	0.81	481		-	-	*	Co-elute PCB 43
PCB-47	6.25e+05	0.88	y	29:27	0.86	161		-	-	*	
PCB-48	6.64e+05	0.72	y	29:33	1.04	142		-	-	*	Co-elute PCB 75
PCB-75	6.64e+05	0.72	y	29:33	1.04	142		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.05	*		668	860	3.39	
PCB-62	*	*	n	NotFnd	1.09	*		668	860	3.27	
PCB-44	1.66e+06	0.76	y	30:11	0.69	537		-	-	*	
PCB-42	8.30e+05	0.77	y	30:25	0.90	205		-	-	*	Co-elute PCB 59
PCB-59	8.30e+05	0.77	y	30:25	0.90	205		-	-	*	Co-elute PCB 42
PCB-72	1.96e+06	0.77	y	30:58	0.96	454		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.96e+06	0.77	y	30:58	0.96	454		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.96e+06	0.77	y	30:58	0.96	454		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.96e+06	0.77	y	30:58	0.96	454		-	-	*	Co-elute PCB 72/41/71
PCB-68	4.62e+04	0.83	y	31:12	1.11	9.25	J	-	-	*	
PCB-40	2.90e+05	0.83	y	31:24	0.60	108		-	-	*	
PCB-57	*	*	n	NotFnd	1.00	*		668	860	3.56	
PCB-67	6.78e+04	0.69	y	32:02	0.94	16.0	J	-	-	*	
PCB-58	*	*	n	NotFnd	1.06	*		668	860	3.37	
PCB-63	7.48e+04	0.70	y	32:19	1.00	16.7	J	-	-	*	
PCB-74	7.59e+05	0.79	y	32:35	0.97	173		-	-	*	
PCB-61	1.72e+06	0.83	y	32:46	0.93	411		-	-	*	Co-elute PCB 70
PCB-70	1.72e+06	0.83	y	32:46	0.93	411		-	-	*	Co-elute PCB 61
PCB-76	1.50e+06	0.78	y	32:59	1.02	326		-	-	*	Co-elute PCB 66
PCB-66	1.50e+06	0.78	y	32:59	1.02	326		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.20	*		668	860	2.97	
PCB-55	9.25e+04	0.82	y	33:28	1.03	20.0		-	-	*	
13C-PCB-54	4.50e+07	0.83	y	25:37	1.26	7200					72.0
PCB-104	3.27e+06	1.60	y	30:02	1.08	703		-	-	*	
PCB-96	2.20e+04	1.48	y	31:14	0.98	5.17	J	-	-	*	
PCB-103	2.26e+04	1.39	y	31:43	0.77	6.76	J	-	-	*	
PCB-100	1.64e+04	1.38	y	32:05	0.79	4.83	J	-	-	*	
PCB-94	*	*	n	NotFnd	0.64	*		268	308	2.20	
PCB-98	*	*	n	NotFnd	0.65	*		268	308	2.17	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.65	*		268	308	2.17	Co-elute PCB 98
PCB-95	8.70e+05	1.50	y	33:03	0.69	292		-	-	*	
PCB-93	*	*	n	NotFnd	0.69	*		268	308	2.04	
PCB-88	*	*	n	NotFnd	0.72	*		268	308	1.94	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.72	*		268	308	1.94	Co-elute PCB 88
PCB-121	4.52e+06	1.55	y	33:29	0.87	1200		-	-	*	
13C-PCB-104	4.33e+07	1.60	y	30:01	1.00	8630					86.3
13C-PCB-28	7.93e+07	1.05	y	26:41	1.67	9560					95.6
13C-PCB-52	4.99e+07	0.81	y	28:56	-	101					

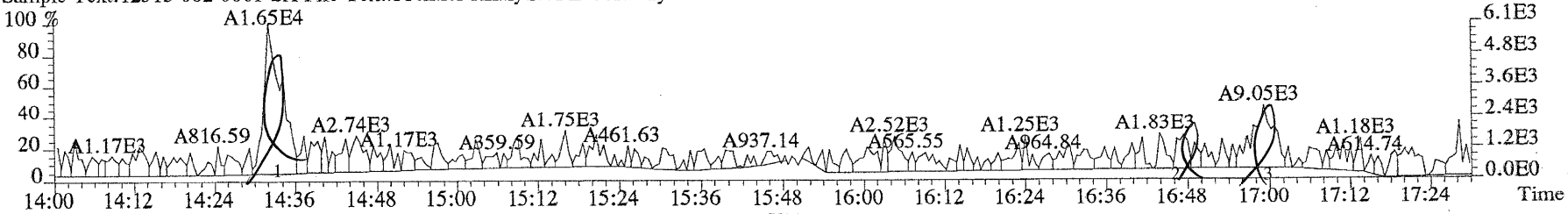
PCB-56	8.78e+05	0.78	y	33:57	1.02	205		-	-	*	Co-elute PCB 60
PCB-60	8.78e+05	0.78	y	33:57	1.02	205		-	-	*	Co-elute PCB 56
PCB-79	1.98e+04	0.81	y	34:56	1.16	4.05	J	-	-	*	
PCB-78	3.35e+06	0.78	y	35:38	1.11	716		-	-	*	
PCB-81	4.90e+04	0.74	y	36:08	1.17	10.1	J	-	-	*	
13C-PCB-81	4.15e+07	0.78	y	36:06	1.41	8820					88.2
PCB-77	9.35e+04	0.77	y	36:42	1.00	22.0		-	-	*	
13C-PCB-77	4.26e+07	0.80	y	36:40	1.45	8760					87.6
PCB-155	4.28e+06	1.30	y	34:11	1.01	1110		-	-	*	
PCB-150	*	*	n	NotFnd	0.98	*		340	364	1.90	
PCB-152	*	*	n	NotFnd	0.87	*		340	364	2.13	
PCB-145	*	*	n	NotFnd	0.96	*		340	364	1.92	
PCB-136	1.41e+05	1.19	y	36:34	0.94	39.6		-	-	*	
PCB-148	*	*	n	NotFnd	0.63	*		340	364	2.92	
PCB-154	2.79e+04	1.26	y	37:07	0.79	9.31	J	-	-	*	
13C-PCB-155	3.82e+07	1.31	y	34:10	1.27	9010					90.1
13C-PCB-111	3.73e+07	1.59	y	36:15	1.24	9020					90.2
13C-PCB-101	3.35e+07	1.62	y	34:36	-	89.3					
PCB-84	3.97e+05	1.63	y	34:17	0.83	127		-	-	*	Co-elute PCB 92
PCB-92	3.97e+05	1.63	y	34:17	0.83	127		-	-	*	Co-elute PCB 84
PCB-89	1.93e+04	1.76	y	34:28	0.81	6.28	J	-	-	*	
PCB-90	9.07e+05	1.58	y	34:37	0.91	264		-	-	*	Co-elute PCB 101
PCB-101	9.07e+05	1.58	y	34:37	0.91	264		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.04	*		710	592	3.74	
PCB-99	3.92e+05	1.52	y	34:56	1.00	103		-	-	*	
PCB-119	3.32e+04	1.44	y	35:23	1.15	7.60	J	-	-	*	
PCB-83	4.24e+04	1.53	y	35:32	0.91	12.3	J	-	-	*	Co-elute PCB 112
PCB-112	4.24e+04	1.53	y	35:32	0.91	12.3	J	-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.09	*		710	592	3.60	
PCB-97	1.98e+05	1.56	y	35:52	0.75	70.0		-	-	*	
PCB-86	*	*	n	NotFnd	0.83	*		710	592	4.71	
PCB-125	3.20e+05	1.54	y	36:08	0.99	85.4		-	-	*	Co-elute PCB 87/117
PCB-87	3.20e+05	1.54	y	36:08	0.99	85.4		-	-	*	Co-elute PCB 125/117
PCB-117	3.20e+05	1.54	y	36:08	0.99	85.4		-	-	*	Co-elute PCB 125/87
PCB-111	2.33e+04	1.53	y	36:17	1.14	5.39	J	-	-	*	Co-elute PCB 115
PCB-115	2.33e+04	1.53	y	36:17	1.14	5.39	J	-	-	*	Co-elute PCB 111
PCB-85	1.30e+05	1.55	y	36:24	0.99	34.6		-	-	*	Co-elute PCB 116
PCB-116	1.30e+05	1.55	y	36:24	0.99	34.6		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.18	*		710	592	3.31	
PCB-110	8.76e+05	1.55	y	36:45	1.13	205		-	-	*	
PCB-82	6.90e+04	1.40	y	37:20	0.66	27.7		-	-	*	
PCB-124	3.66e+04	1.51	y	37:59	1.13	8.57	J	-	-	*	
PCB-108	4.26e+04	1.67	y	38:10	1.08	10.4	J	-	-	*	Co-elute PCB 107
PCB-107	4.26e+04	1.67	y	38:10	1.08	10.4	J	-	-	*	Co-elute PCB 108
PCB-123	1.72e+04	1.46	y	38:19	1.02	4.61	J	-	-	*	
13C-PCB-123	3.67e+07	1.52	y	38:17	1.21	9730					97.3
PCB-118	5.05e+05	1.58	y	38:29	1.04	123		-	-	*	Co-elute PCB 106
PCB-106	5.05e+05	1.58	y	38:29	1.04	123		-	-	*	Co-elute PCB 118
13C-PCB-118	3.95e+07	1.57	y	38:27	1.36	9350					93.5
PCB-114	2.03e+04	1.70	y	39:06	1.13	4.76	J	-	-	*	
13C-PCB-114	3.77e+07	1.62	y	39:05	1.26	9600					96.0
PCB-122	*	*	n	NotFnd	1.04	*		560	512	3.10	
PCB-105	2.06e+05	1.52	y	39:54	1.12	48.6		-	-	*	
13C-PCB-105	3.77e+07	1.59	y	39:54	1.26	9580					95.8

PCB-127	*	*	n	NotFnd	1.03	*		560	512	3.14	
PCB-126	*	*	n	NotFnd	1.08	*		560	512	3.58	
13C-PCB-126	3.39e+07	1.57	y	42:01	1.17	9280					92.8
PCB-151	1.68e+05	1.42	y	37:44	0.88	58.3		-	-	*	
PCB-135	7.98e+04	1.20	y	37:56	0.83	29.2		-	-	*	
PCB-144	4.38e+04	1.24	y	38:04	1.01	13.1	J	-	-	*	
PCB-147	2.11e+04	1.31	y	38:10	0.93	6.87	J	-	-	*	
PCB-139	6.18e+05	1.29	y	38:25	0.99	190		-	-	*	Co-elute PCB 149
PCB-149	6.18e+05	1.29	y	38:25	0.99	190		-	-	*	Co-elute PCB 139
PCB-140	1.21e+04	1.22	y	38:33	0.93	3.96	J	-	-	*	
PCB-143	3.41e+04	1.28	y	39:03	0.77	13.5	J	-	-	*	Co-elute PCB 134
PCB-134	3.41e+04	1.28	y	39:03	0.77	13.5	J	-	-	*	Co-elute PCB 143
PCB-131	1.69e+04	1.36	y	39:18	0.78	6.62	J	-	-	*	Co-elute PCB 133
PCB-133	1.69e+04	1.36	y	39:18	0.78	6.62	J	-	-	*	Co-elute PCB 131
PCB-142	8.78e+06	1.26	y	39:26	0.77	3460		-	-	*	
PCB-165	1.27e+05	1.17	y	39:38	1.04	37.1		-	-	*	Co-elute PCB 146
PCB-146	1.27e+05	1.17	y	39:38	1.04	37.1		-	-	*	Co-elute PCB 165
PCB-161	1.64e+05	1.22	y	39:56	0.95	52.3		-	-	*	Co-elute PCB 132
PCB-132	1.64e+05	1.22	y	39:56	0.95	52.3		-	-	*	Co-elute PCB 161
PCB-153	6.81e+05	1.30	y	40:02	1.08	191		-	-	*	
PCB-168	*	*	n	NotFnd	1.17	*		584	404	2.87	
PCB-141	8.61e+04	1.23	y	40:45	0.85	30.7		-	-	*	
PCB-137	2.23e+04	1.28	y	41:07	0.77	8.73	J	-	-	*	
PCB-130	2.60e+04	1.22	y	41:11	0.82	9.63	J	-	-	*	
PCB-138	5.04e+05	1.09	y	41:33	1.04	147		-	-	*	Co-elute PCB 163/164
PCB-163	5.04e+05	1.09	y	41:33	1.04	147		-	-	*	Co-elute PCB 138/164
PCB-164	5.04e+05	1.09	y	41:33	1.04	147		-	-	*	Co-elute PCB 138/163
PCB-158	5.90e+04	1.23	y	41:46	1.16	15.4	J	-	-	*	Co-elute PCB 160
PCB-160	5.90e+04	1.23	y	41:46	1.16	15.4	J	-	-	*	Co-elute PCB 158
PCB-129	2.39e+04	1.38	y	42:01	0.73	9.96	J	-	-	*	
PCB-166	*	*	n	NotFnd	1.09	*		584	404	3.06	
PCB-159	1.91e+04	1.38	y	42:44	1.20	4.80	J	-	-	*	
PCB-128	6.58e+04	1.10	y	43:02	0.94	21.2		-	-	*	Co-elute PCB 162
PCB-162	6.58e+04	1.10	y	43:02	0.94	21.2		-	-	*	Co-elute PCB 128
PCB-167	1.76e+04	1.16	y	43:23	1.07	5.08	J	-	-	*	
13C-PCB-167	3.23e+07	1.29	y	43:21	1.16	8950					89.5
PCB-156	3.33e+04	1.33	y	44:37	1.14	9.20	J	-	-	*	
13C-PCB-156	3.18e+07	1.31	y	44:36	1.16	8780					87.8
PCB-157	1.83e+04	1.29	y	44:54	1.08	5.12	J	-	-	*	
13C-PCB-157	3.30e+07	1.30	y	44:50	1.17	9060					90.6
PCB-169	*	*	n	NotFnd	1.05	*		584	404	2.61	
13C-PCB-169	3.49e+07	1.29	y	46:44	1.16	9620					96.2

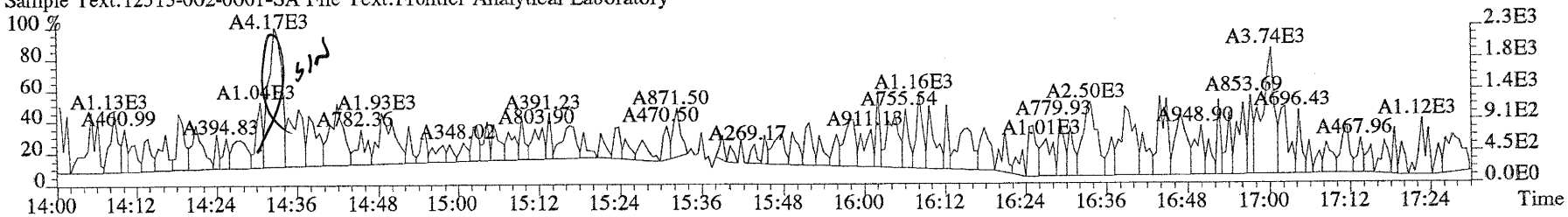
PCB-188	*	*	n	NotFnd	1.09	*		572	312	2.65	
13C-PCB-188	3.14e+07	1.05	y	39:39	1.15	8760					87.6
PCB-184	5.34e+06	1.04	y	40:06	1.21	1360		-	-	*	
PCB-179	7.29e+04	1.11	y	40:50	1.15	19.5	J	-	-	*	
PCB-176	3.02e+04	1.13	y	41:16	1.11	8.34	J	-	-	*	
PCB-186	*	*	n	NotFnd	1.12	*		572	312	2.29	
PCB-178	2.59e+04	1.14	y	42:19	0.77	10.3	J	-	-	*	
PCB-175	*	*	n	NotFnd	0.80	*		572	312	3.23	
PCB-187	1.29e+05	1.14	y	42:49	0.89	44.6		-	-	*	Co-elute PCB 182
PCB-182	1.29e+05	1.14	y	42:49	0.89	44.6		-	-	*	Co-elute PCB 187
PCB-183	7.95e+04	1.01	y	43:07	0.86	28.2		-	-	*	
PCB-185	*	*	n	NotFnd	0.79	*		572	312	3.27	
PCB-174	8.56e+04	1.17	y	44:04	0.81	32.3		-	-	*	
PCB-181	*	*	n	NotFnd	0.78	*		572	312	3.32	
PCB-177	4.94e+04	1.10	y	44:19	0.73	20.8		-	-	*	
PCB-171	2.04e+04	1.11	y	44:37	0.80	7.78	J	-	-	*	
PCB-173	*	*	n	NotFnd	0.70	*		572	312	3.68	
PCB-172	8.70e+04	1.19	y	45:23	0.75	35.5		-	-	*	
PCB-192	3.34e+06	1.07	y	45:35	0.99	1040		-	-	*	
PCB-180	1.43e+05	1.14	y	45:46	0.77	56.7		-	-	*	
PCB-193	*	*	n	NotFnd	1.04	*		572	312	2.47	
PCB-191	*	*	n	NotFnd	1.04	*		572	312	2.49	
PCB-170	5.47e+04	1.02	y	47:04	0.78	21.6		-	-	*	
PCB-190	*	*	n	NotFnd	1.05	*		572	312	2.44	
PCB-189	*	*	n	NotFnd	1.12	*		572	312	2.05	
13C-PCB-189	3.40e+07	1.05	y	48:23	1.01	10700					107
PCB-202	*	*	n	NotFnd	0.98	*		236	368	2.53	
PCB-201	*	*	n	NotFnd	1.07	*		236	368	2.32	
PCB-204	7.31e+06	0.92	y	45:22	1.04	2630		-	-	*	
PCB-197	5.06e+04	0.96	y	45:40	1.10	17.2	J	-	-	*	
PCB-200	*	*	n	NotFnd	1.06	*		236	368	2.35	
PCB-198	*	*	n	NotFnd	0.82	*		236	368	3.04	
PCB-199	2.43e+04	0.99	y	47:40	0.77	11.8	J	-	-	*	
PCB-203	2.95e+04	0.82	y	47:55	0.85	13.0	J	-	-	*	Co-elute PCB 196
PCB-196	2.95e+04	0.82	y	47:55	0.85	13.0	J	-	-	*	Co-elute PCB 203
13C-PCB-202	2.67e+07	0.89	y	44:45	0.96	8950					89.5
13C-PCB-178	2.30e+07	1.05	y	42:17	0.74	9960					99.6
13C-PCB-138	3.12e+07	1.29	y	41:31	-	85.9					
PCB-195	*	*	n	NotFnd	0.77	*		892	728	3.96	
PCB-194	2.44e+04	0.96	y	49:48	0.82	7.62	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.05	*		892	728	2.91	
13C-PCB-205	3.92e+07	0.89	y	50:03	1.30	8990					89.9
PCB-208	*	*	n	NotFnd	1.00	*		854	812	3.59	
13C-PCB-208	3.58e+07	0.80	y	49:07	1.34	8000					80.0
PCB-207	4.07e+04	1.34	y	49:25	1.17	11.1	J	-	-	*	
PCB-206	*	*	n	NotFnd	1.05	*		854	812	4.34	
13C-PCB-206	2.71e+07	0.80	y	51:14	0.95	8560					85.6
PCB-209	5.07e+04	1.16	y	52:26	1.11	13.8	J	-	-	*	
13C-PCB-209	3.32e+07	1.20	y	52:26	1.24	8030					80.3
13C-PCB-194	3.34e+07	0.91	y	49:48	-	104					

Analyst: _____ Date: 8/8/19

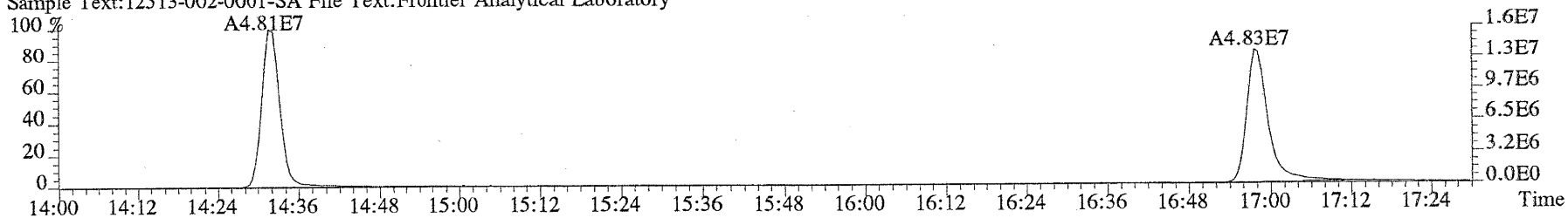
File:07AUG19Z #1-784 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



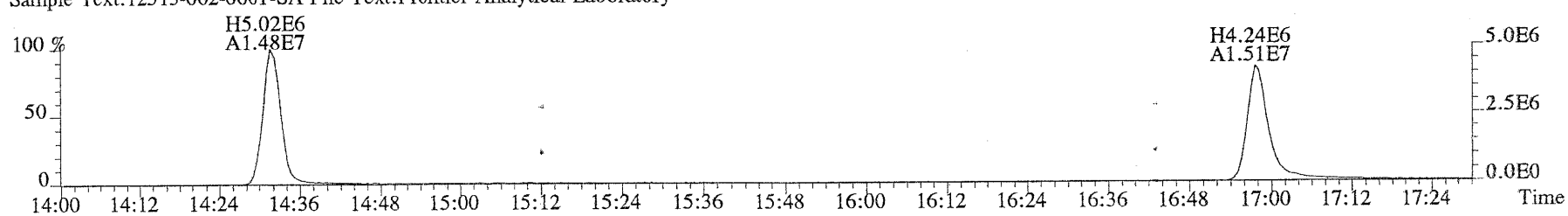
File:07AUG19Z #1-784 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



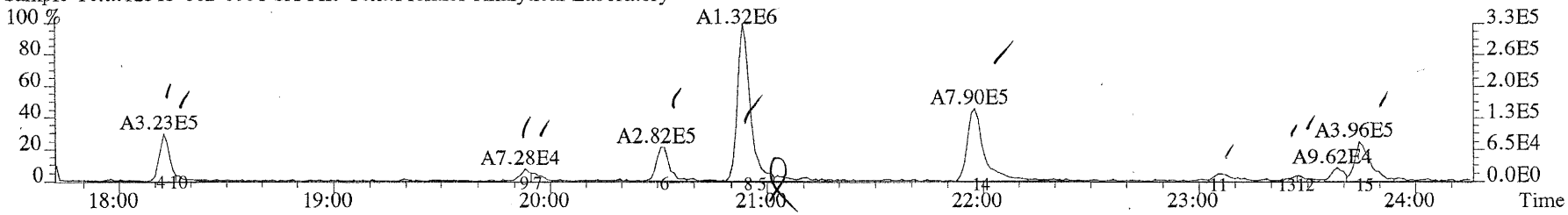
File:07AUG19Z #1-784 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



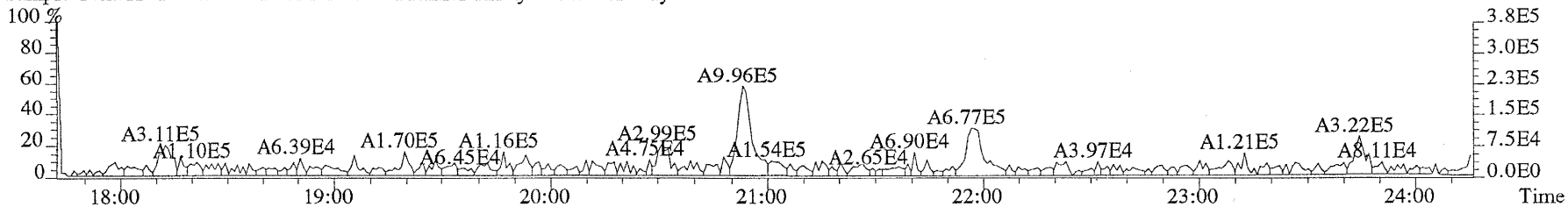
File:07AUG19Z #1-784 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



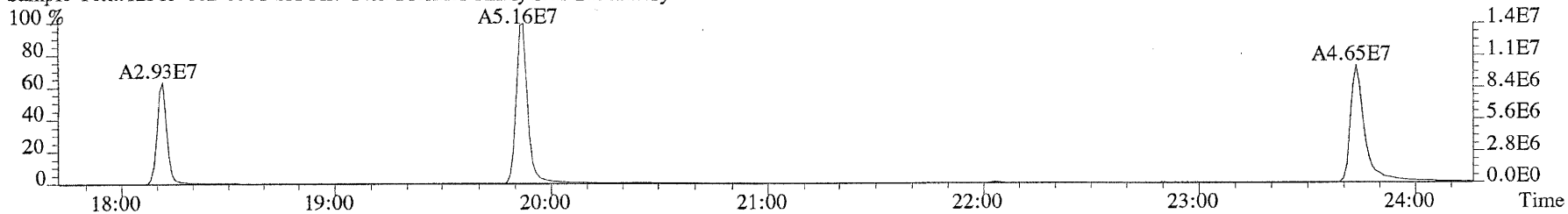
File:07AUG19Z #1-520 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



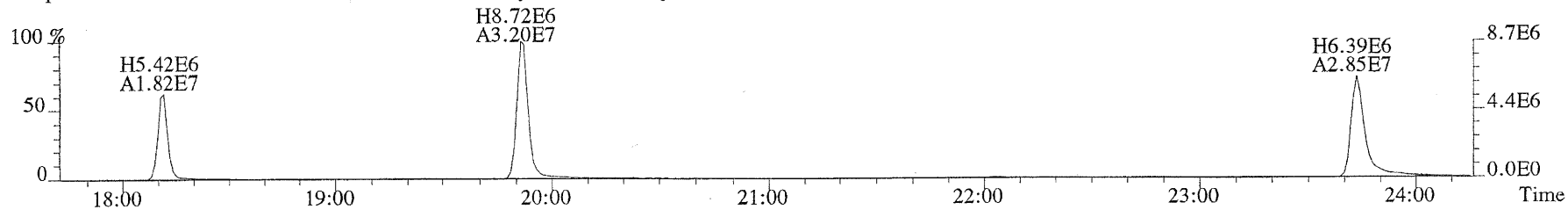
File:07AUG19Z #1-520 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



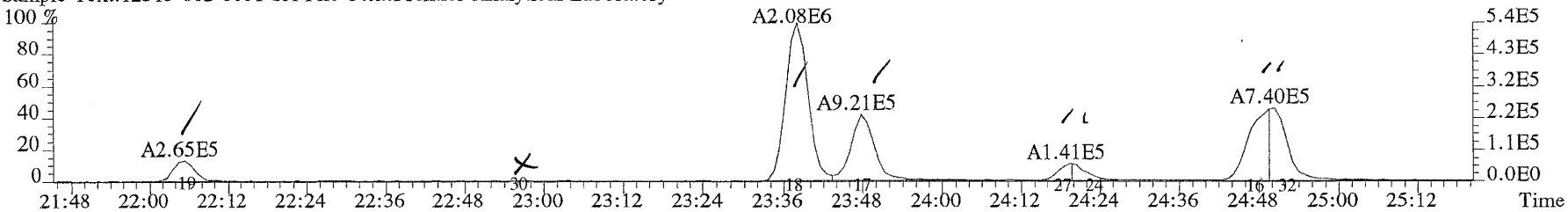
File:07AUG19Z #1-520 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



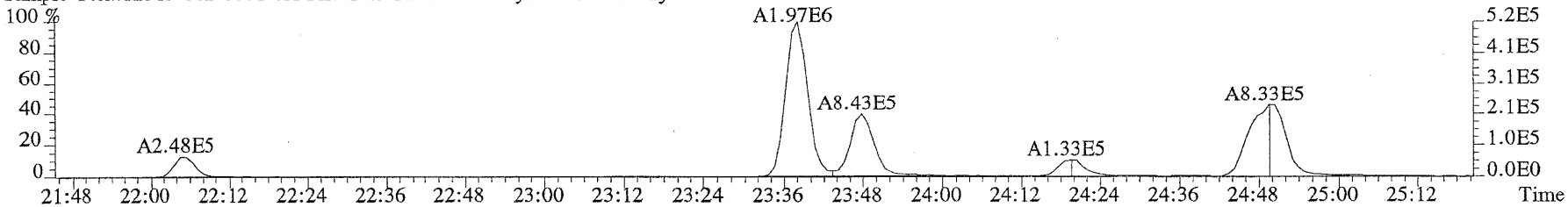
File:07AUG19Z #1-520 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



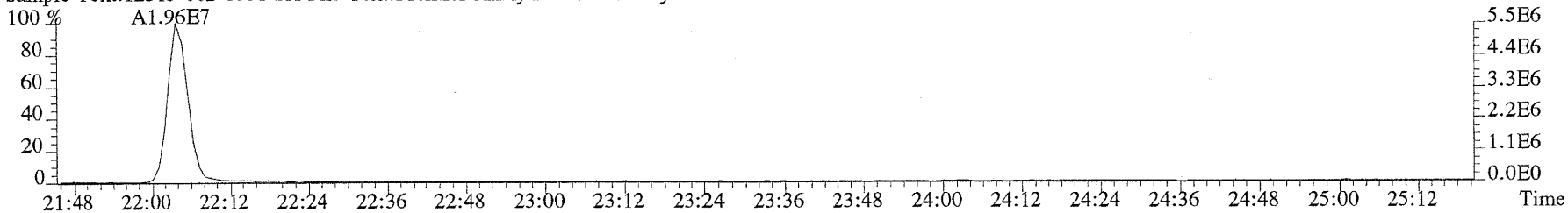
File:07AUG19Z #1-520 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



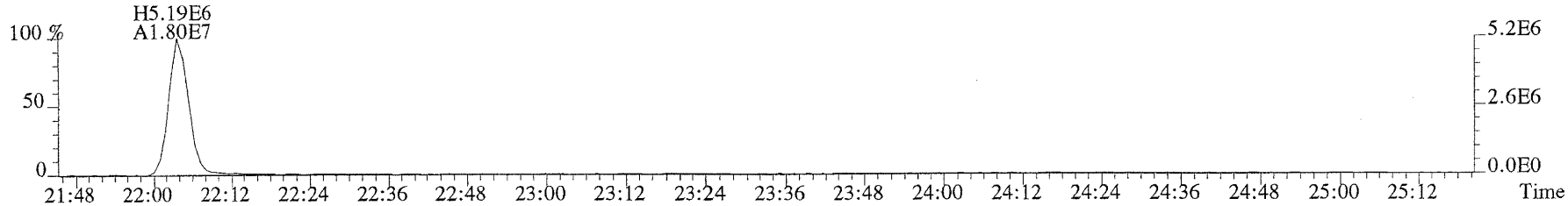
File:07AUG19Z #1-520 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



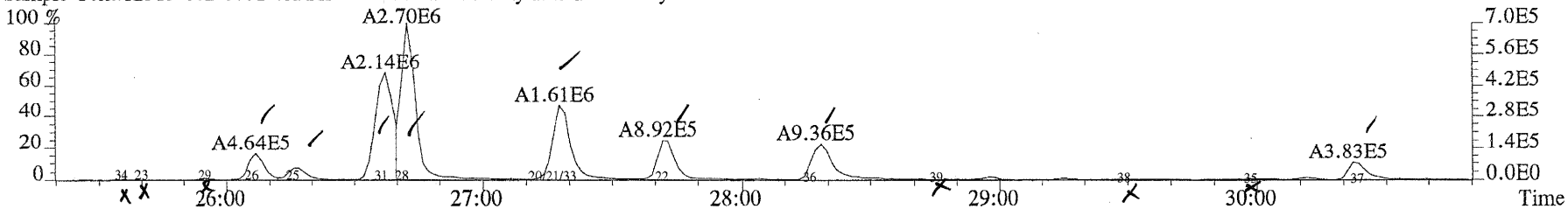
File:07AUG19Z #1-520 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



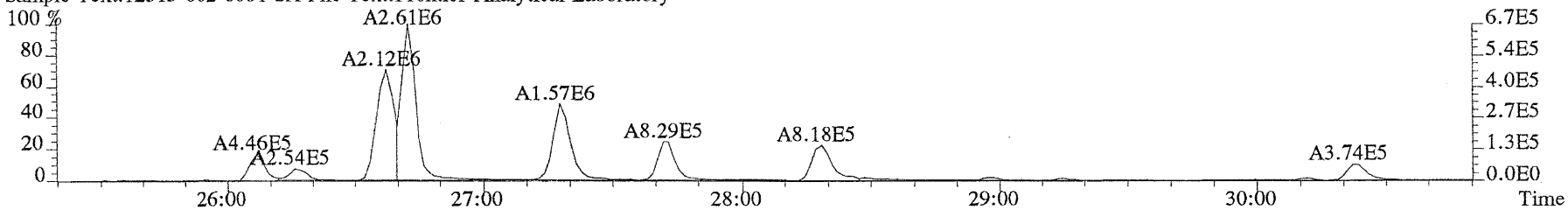
File:07AUG19Z #1-520 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



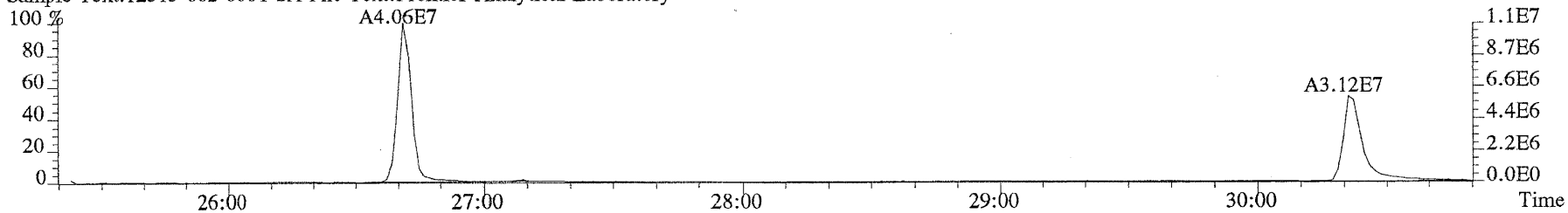
File:07AUG19Z #1-401 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



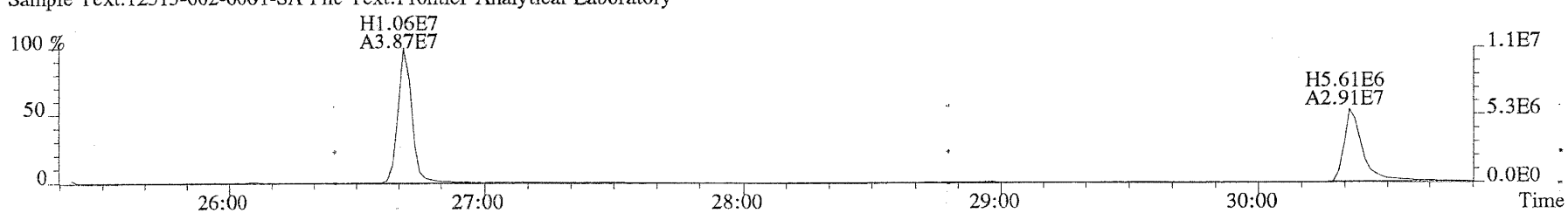
File:07AUG19Z #1-401 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



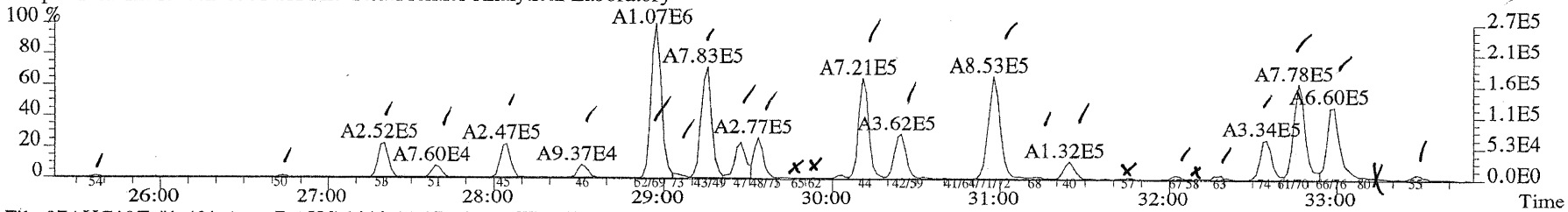
File:07AUG19Z #1-401 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



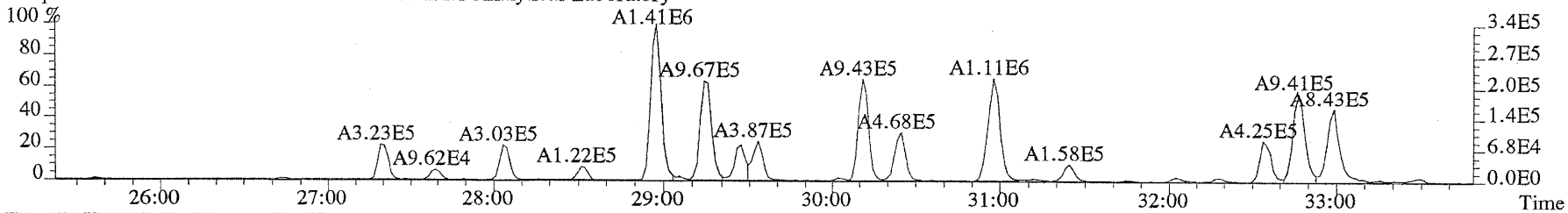
File:07AUG19Z #1-401 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



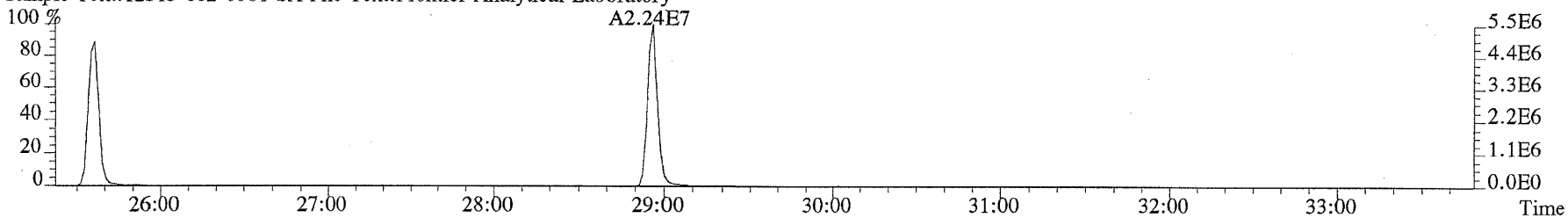
File:07AUG19Z #1-401 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



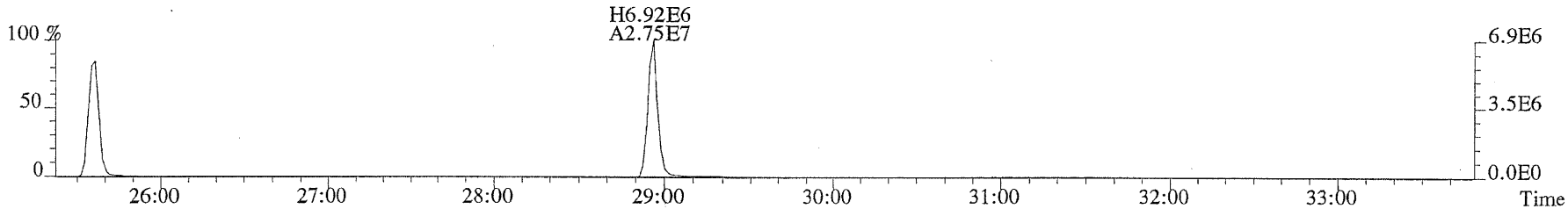
File:07AUG19Z #1-401 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



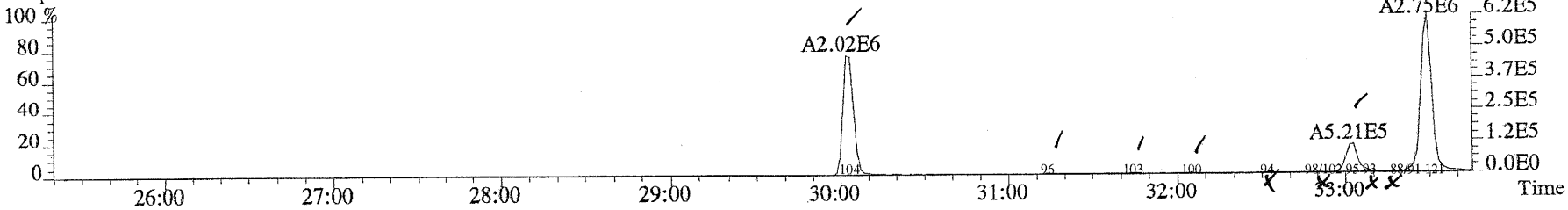
File:07AUG19Z #1-401 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



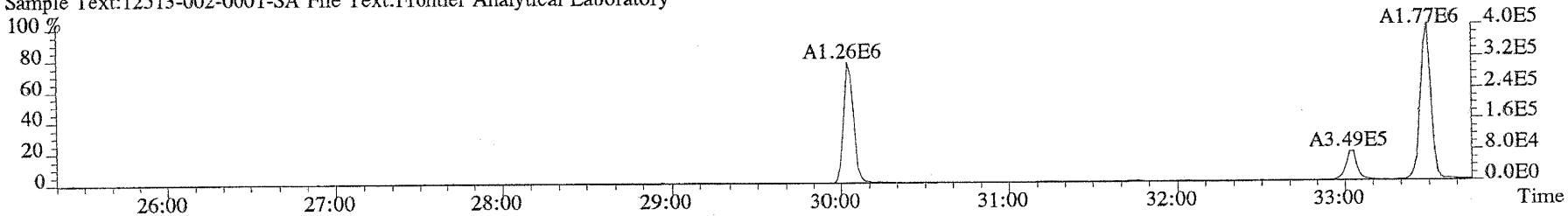
File:07AUG19Z #1-401 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



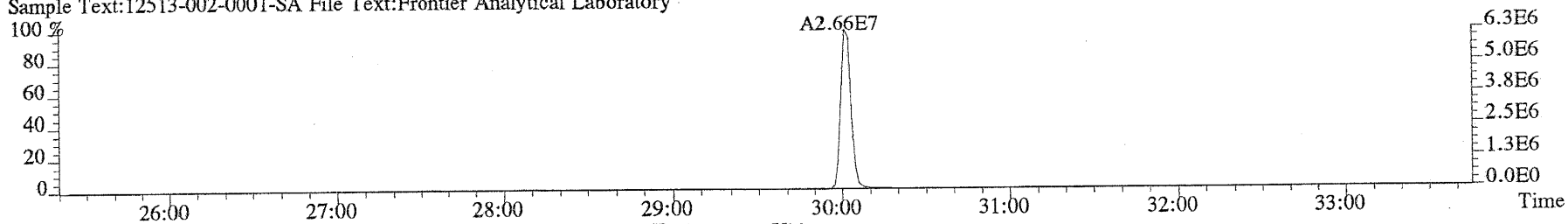
File:07AUG19Z #1-401 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



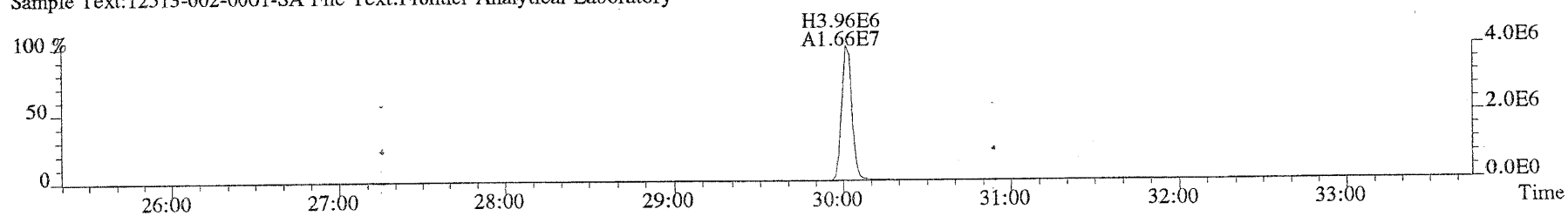
File:07AUG19Z #1-401 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



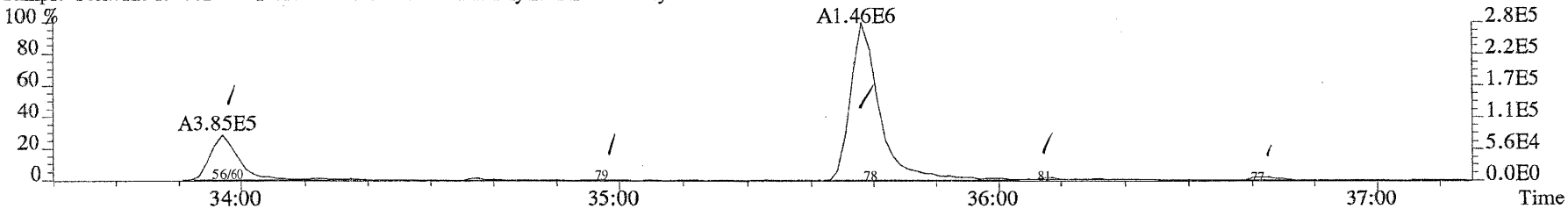
File:07AUG19Z #1-401 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-401 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-181 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



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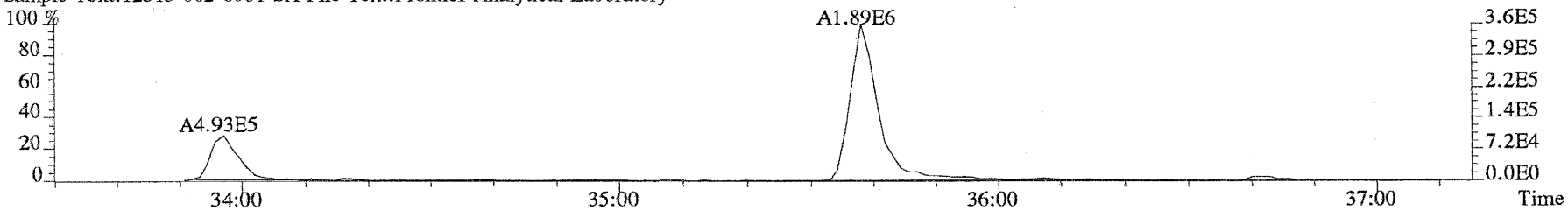
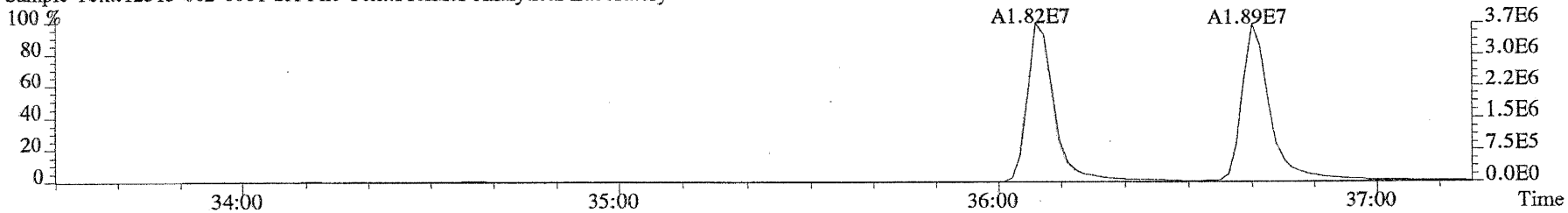
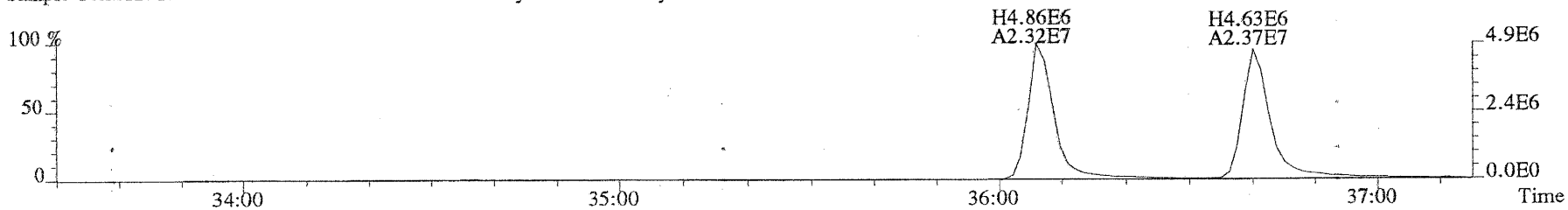
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



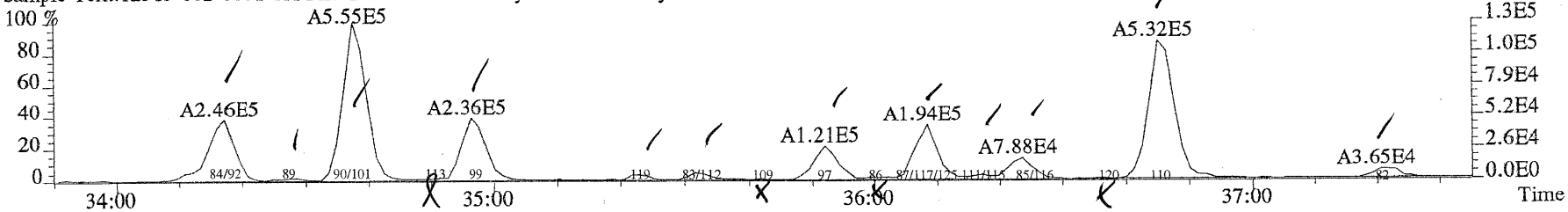
File:07AUG19Z #1-181 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



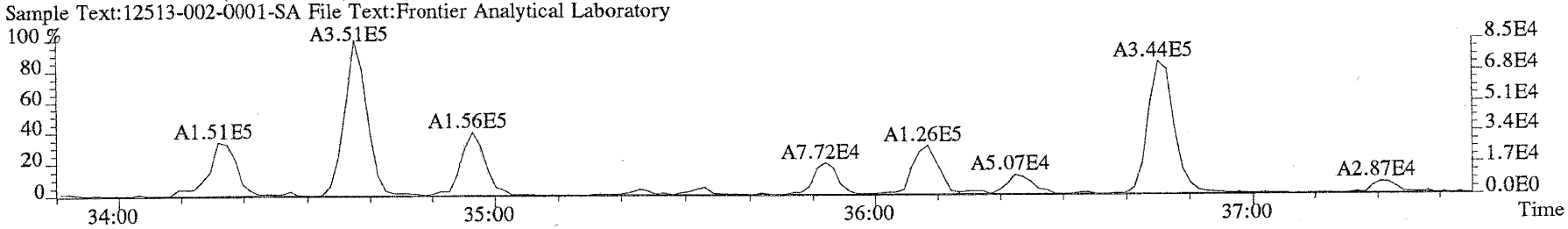
File:07AUG19Z #1-181 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



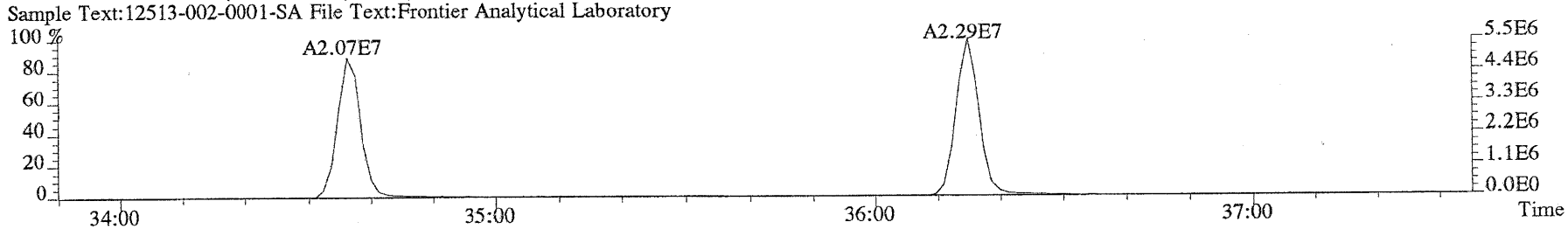
File:07AUG19Z #1-181 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



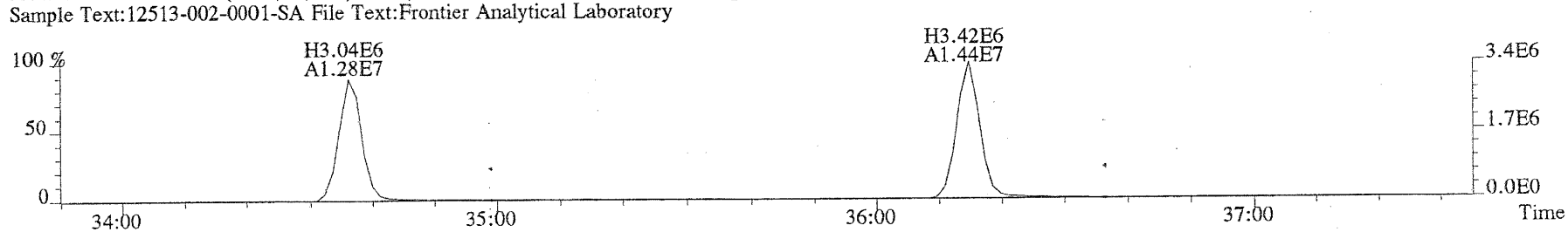
File:07AUG19Z #1-181 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



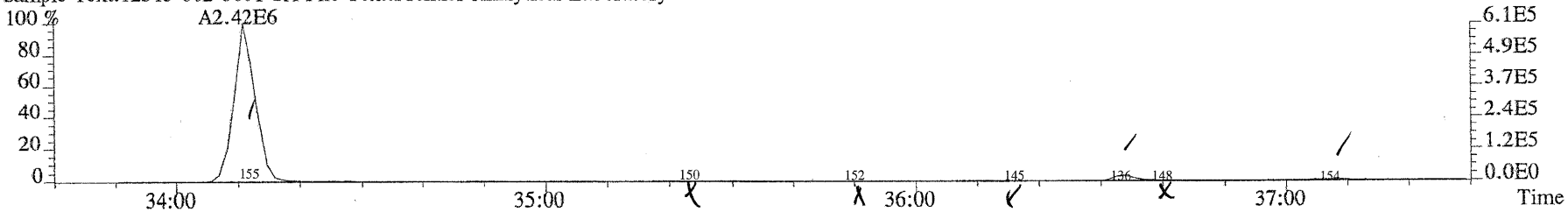
File:07AUG19Z #1-181 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



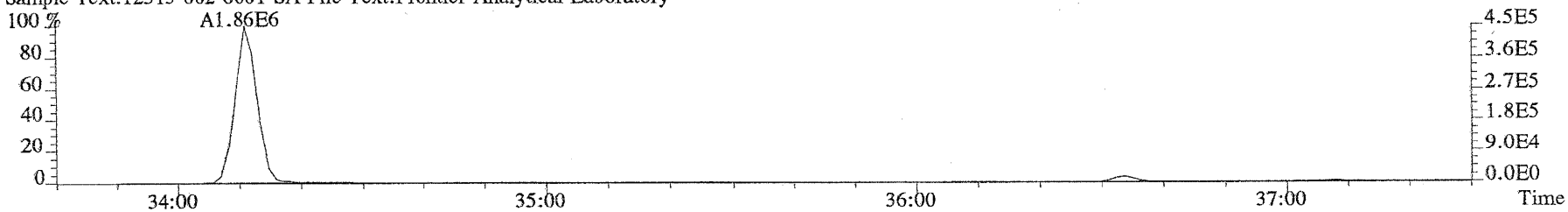
File:07AUG19Z #1-181 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



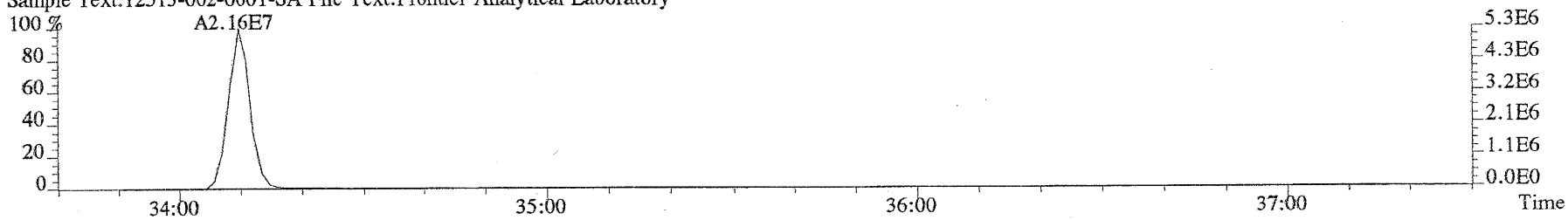
File:07AUG19Z #1-181 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



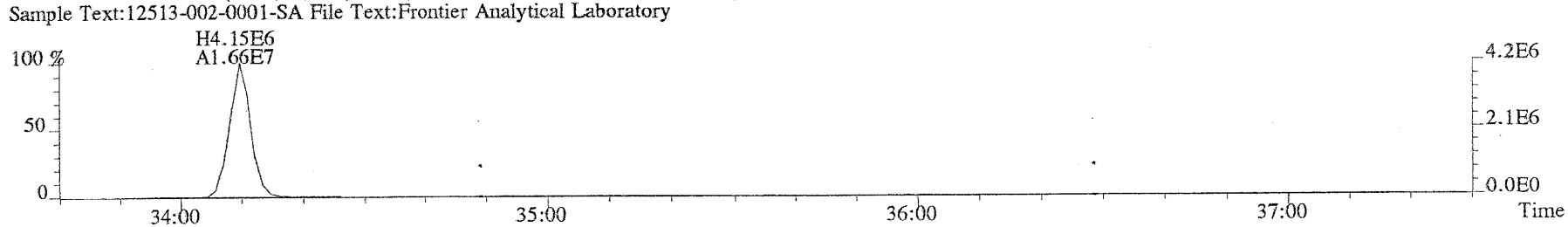
File:07AUG19Z #1-181 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



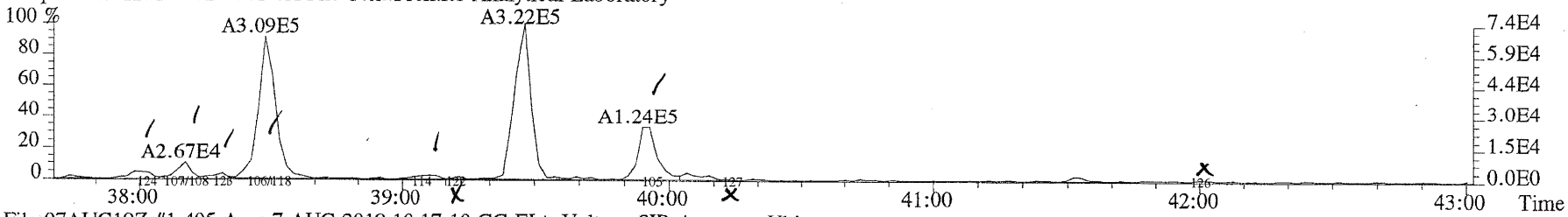
File:07AUG19Z #1-181 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



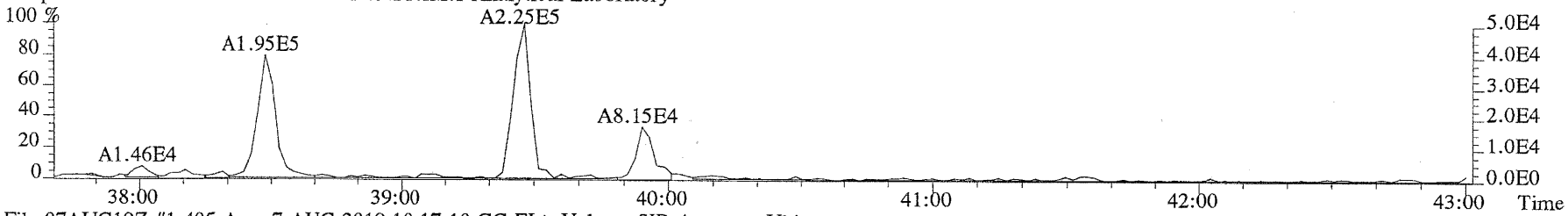
File:07AUG19Z #1-181 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-405 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-405 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



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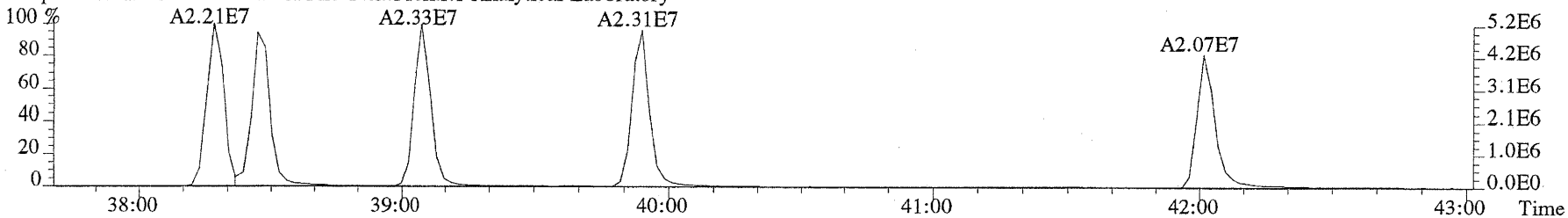
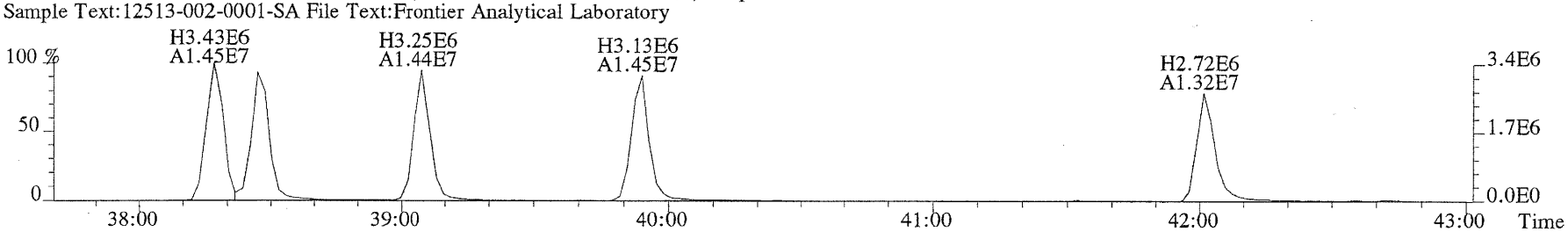
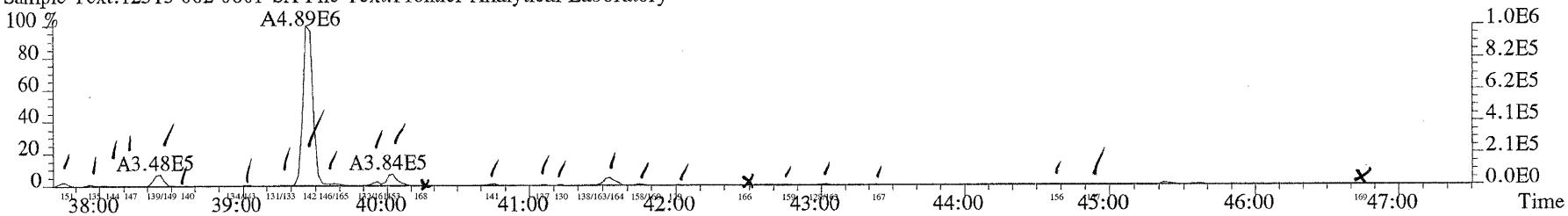
337.9207 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



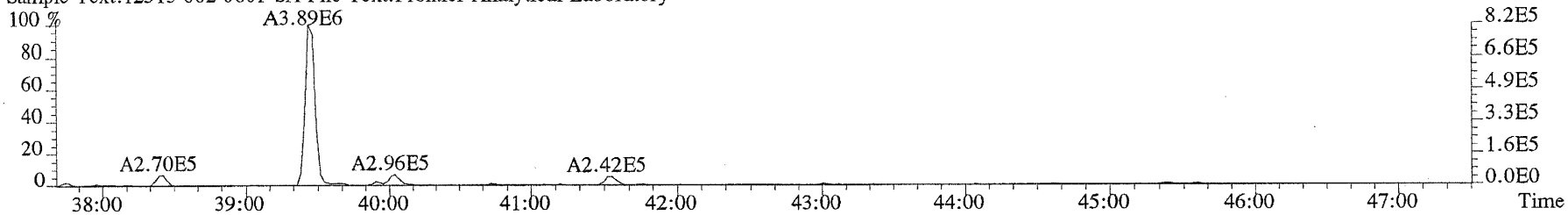
File:07AUG19Z #1-405 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



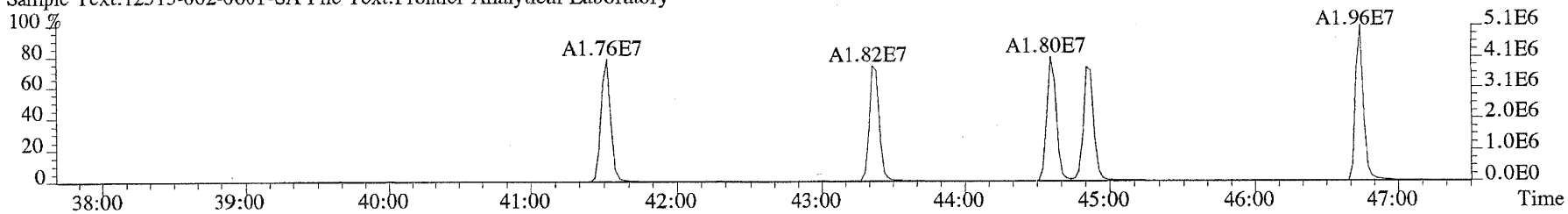
File:07AUG19Z #1-405 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



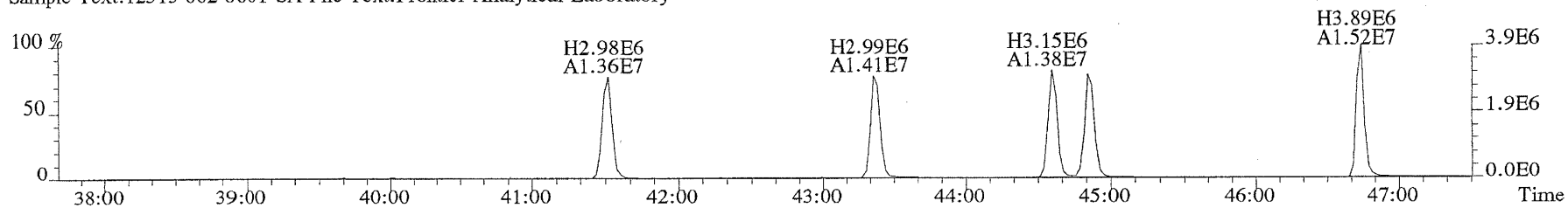
File:07AUG19Z #1-405 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



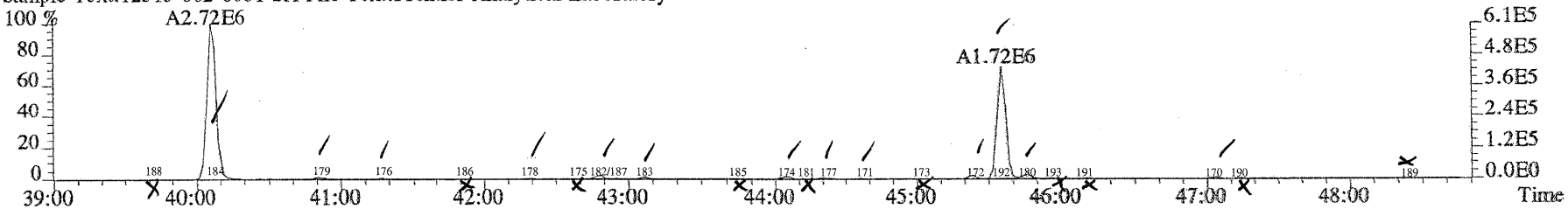
File:07AUG19Z #1-405 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



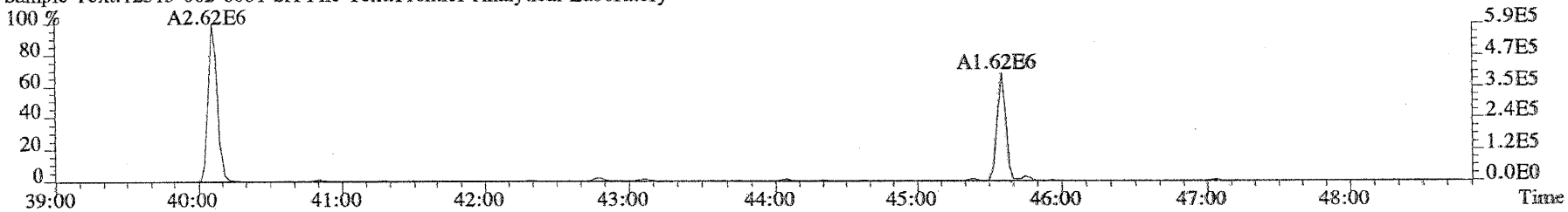
File:07AUG19Z #1-405 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



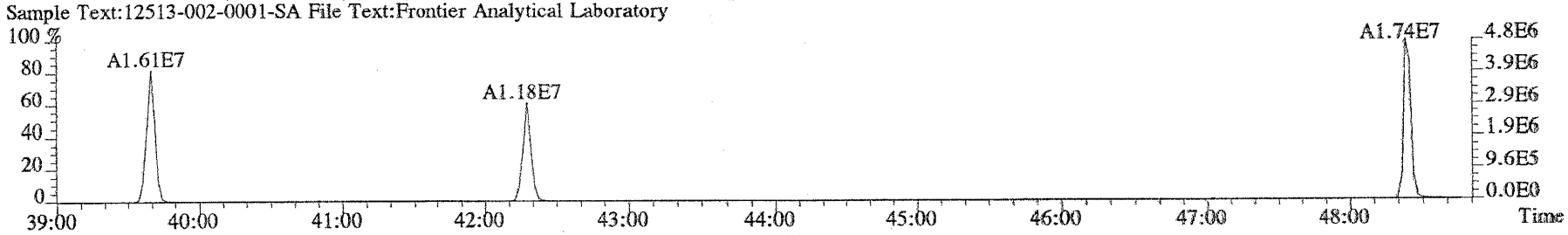
File:07AUG19Z #1-405 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



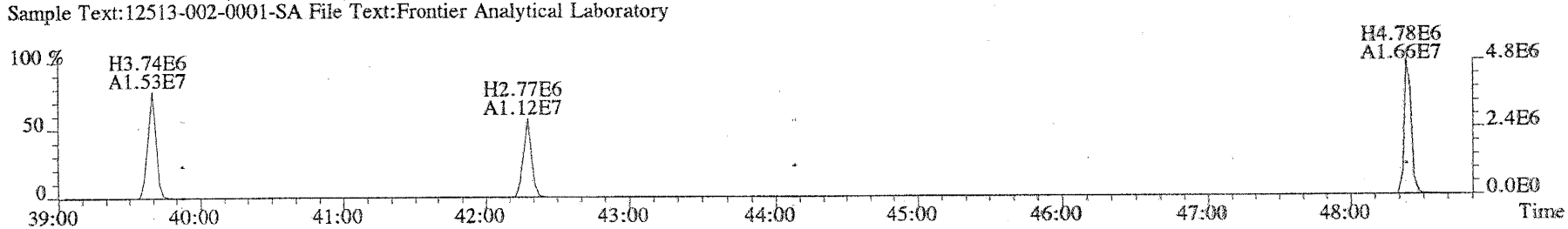
File:07AUG19Z #1-405 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



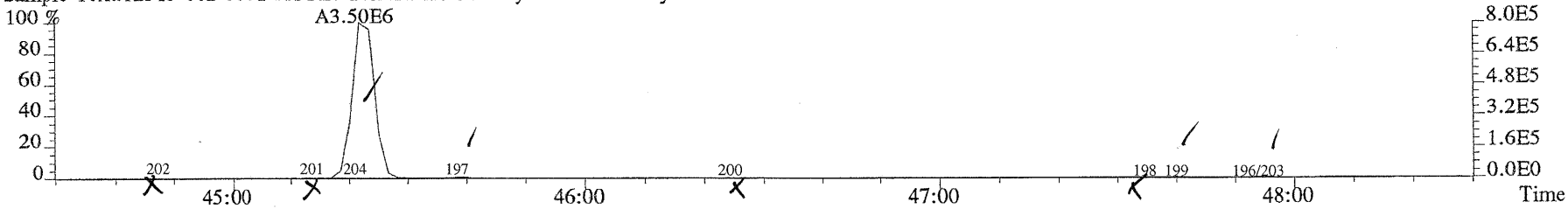
File:07AUG19Z #1-405 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



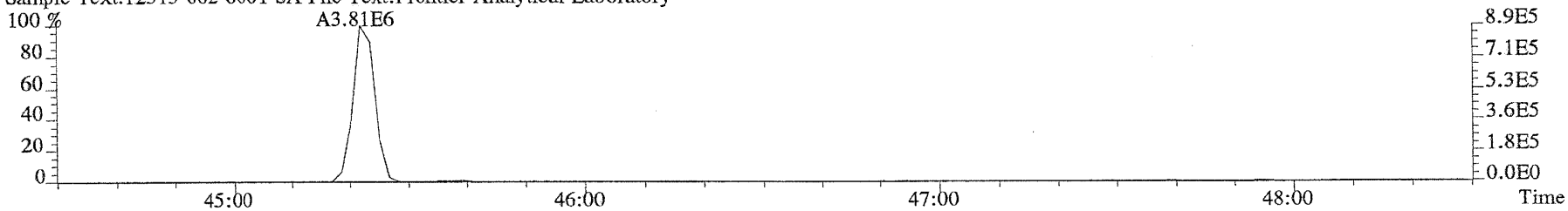
File:07AUG19Z #1-405 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



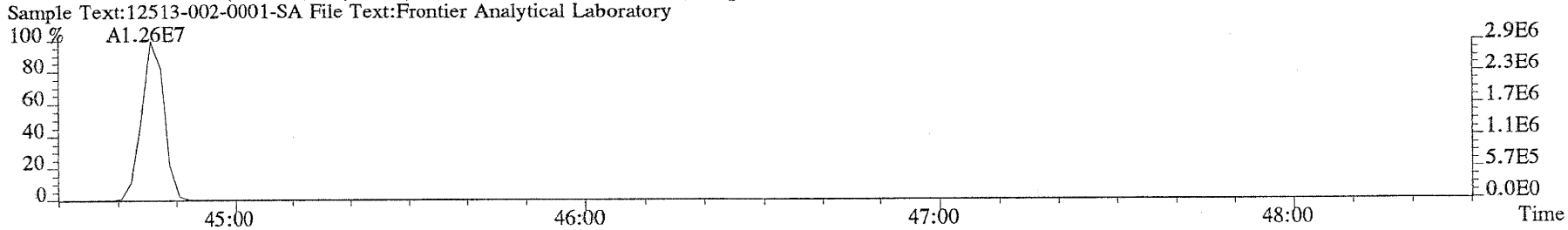
File:07AUG19Z #1-405 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



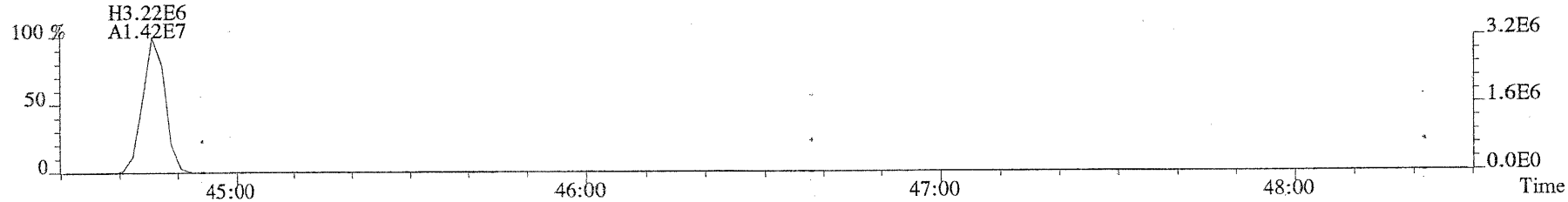
File:07AUG19Z #1-405 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



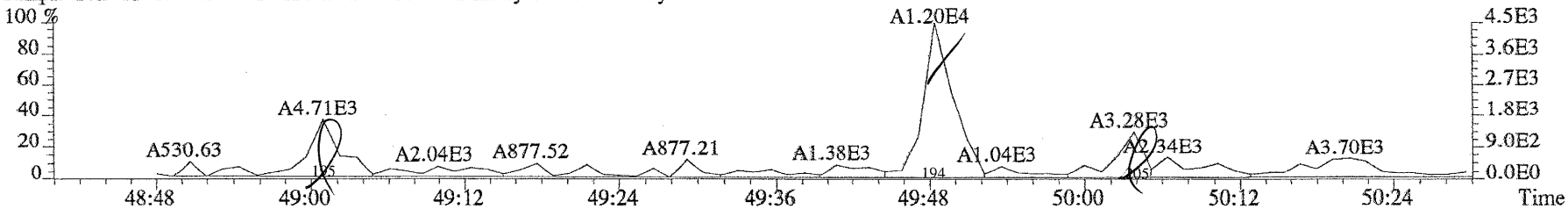
File:07AUG19Z #1-405 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



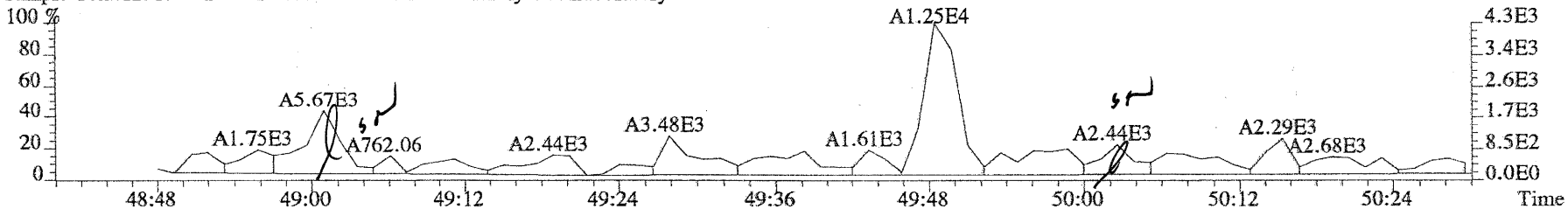
File:07AUG19Z #1-405 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



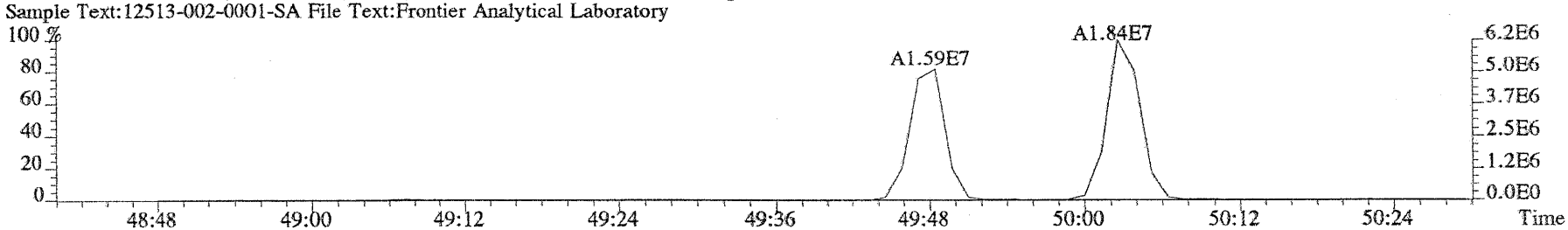
File:07AUG19Z #1-315 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



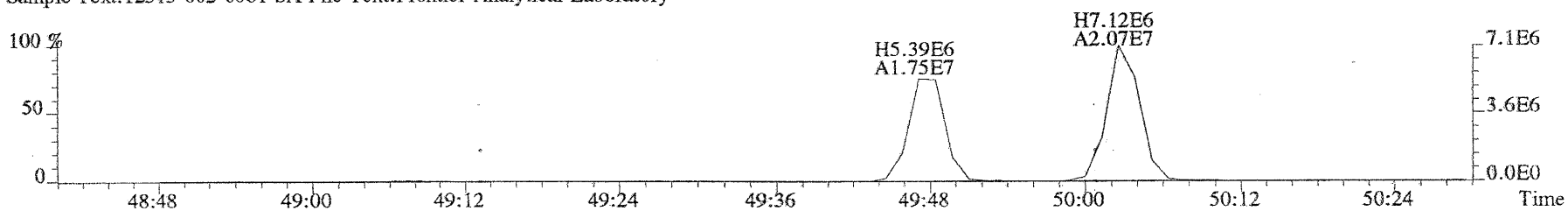
File:07AUG19Z #1-315 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



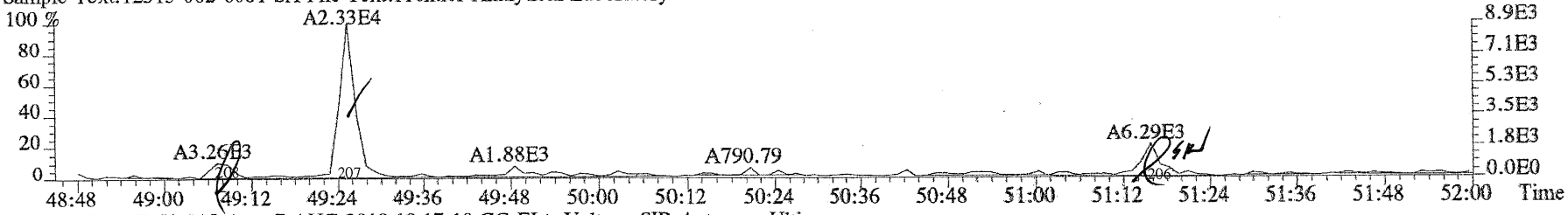
File:07AUG19Z #1-315 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



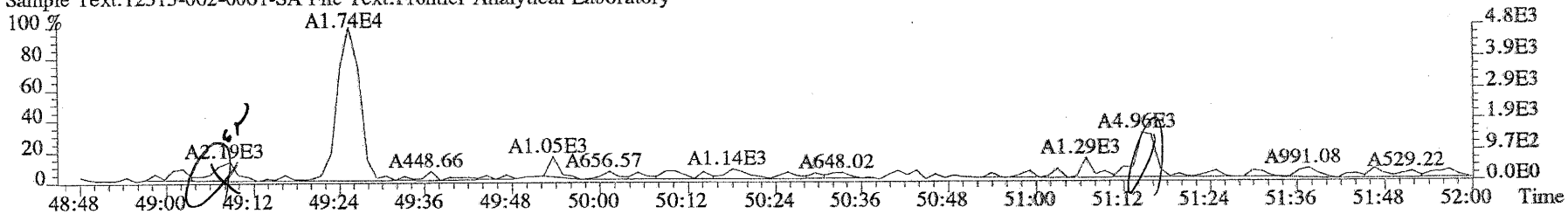
File:07AUG19Z #1-315 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



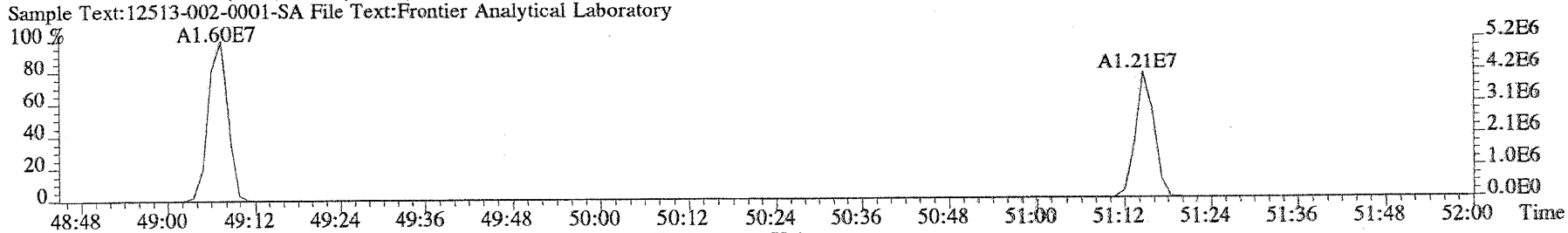
File:07AUG19Z #1-315 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



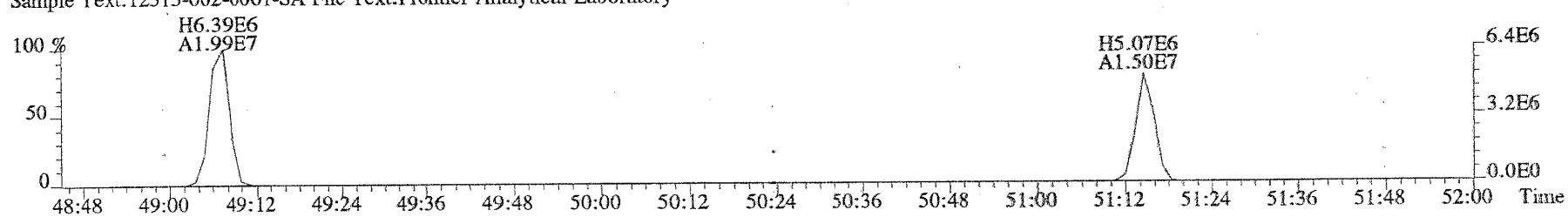
File:07AUG19Z #1-315 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



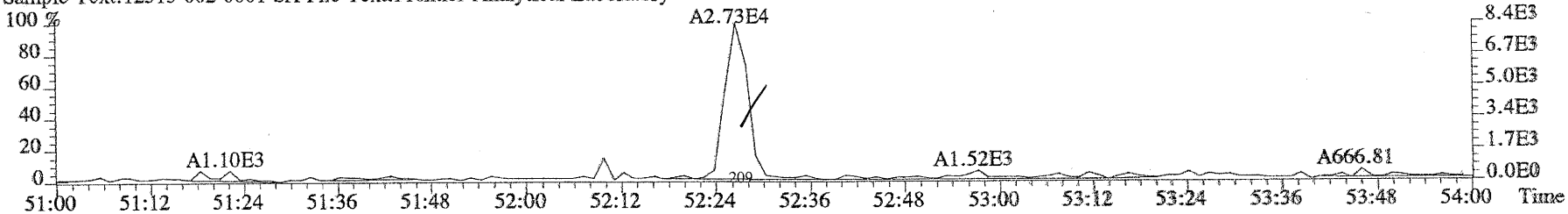
File:07AUG19Z #1-315 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



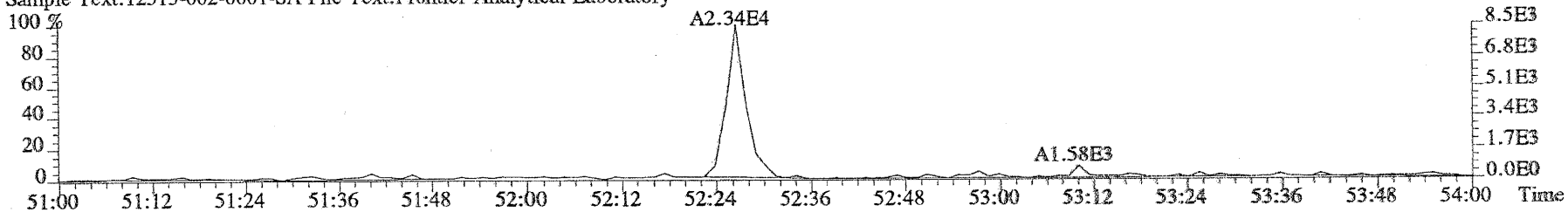
File:07AUG19Z #1-315 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



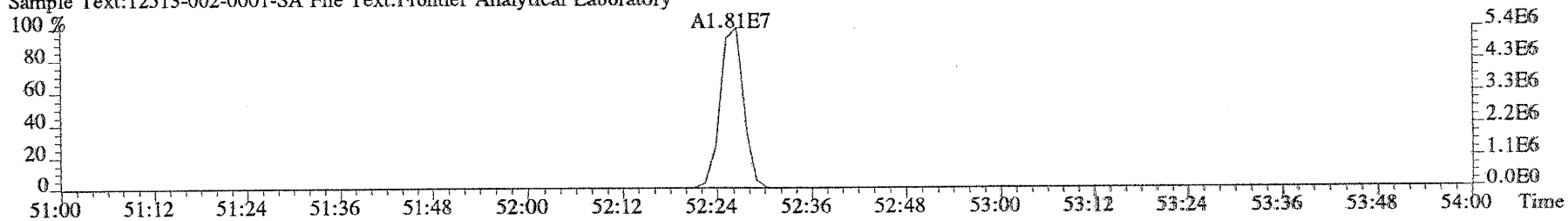
File:07AUG19Z #1-315 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



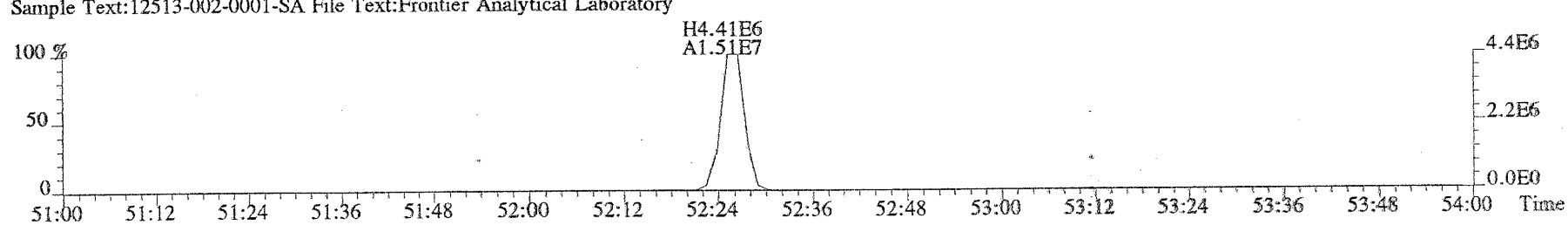
File:07AUG19Z #1-315 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-315 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-315 Acq: 7-AUG-2019 10:17:10 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-002-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12513-003-0001-SA Filename: 07AUG19Z Sam:6 Acquired: 7-AUG-19 11:15:31 ICal: DAILY209FAL4-8-7-19
Client ID: LDW-Y2-SC-ENR+AC-CC-SSWI ConCal: ST080719Z1 EndCal: ST080719Z2
Results: 12513 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	3.81e+04	3.29 y	14:33	1.11	5.43	J	-	-	*	
13C-PCB-1	6.32e+07	3.17 y	14:31	0.91	8360					83.6
PCB-2	*	* n	NotFnd	1.13	*		1280	896	2.53	
PCB-3	*	* n	NotFnd	1.15	*		1280	896	2.69	
13C-PCB-3	6.41e+07	3.22 y	16:57	0.89	8750					87.5
PCB-4	8.05e+05	1.53 y	18:11	1.16	143		-	-	*	
PCB-10	1.01e+05	1.45 y	18:15	1.28	13.0	J	-	-	*	
13C-PCB-4	4.85e+07	1.57 y	18:11	0.65	9090					90.9
PCB-9	2.30e+05	1.56 y	19:53	1.40	27.0		-	-	*	
PCB-7	1.02e+05	1.48 y	19:56	1.36	12.3	J	-	-	*	
PCB-6	7.11e+05	1.45 y	20:31	1.38	84.5		-	-	*	
PCB-8	3.06e+06	1.54 y	20:53	1.34	376		-	-	*	
PCB-5	*	* n	NotFnd	1.34	*		973	4220	6.37	
PCB-14	3.00e+06	1.35 y	21:56	1.32	374		-	-	*	
PCB-11	3.01e+05	1.49 y	23:04	1.20	41.0		-	-	*	
PCB-13	5.83e+04	1.52 y	23:25	1.18	8.13	J	-	-	*	
PCB-12	6.35e+04	1.75 y	23:26	1.23	8.48	J	-	-	*	
PCB-15	8.91e+05	1.48 y	23:44	1.08	113		-	-	*	
13C-PCB-15	7.31e+07	1.59 y	23:42	0.93	9490					94.9
PCB-19	6.09e+05	1.06 y	22:04	1.19	136		-	-	*	
PCB-30	*	* n	NotFnd	1.77	*		1460	372	2.49	
PCB-18	4.85e+06	1.07 y	23:37	1.18	1090		-	-	*	
PCB-17	2.17e+06	1.06 y	23:47	1.29	446		-	-	*	
PCB-27	2.45e+05	1.00 y	24:18	1.74	37.6		-	-	*	
PCB-24	4.13e+05	1.11 y	24:19	1.64	66.9		-	-	*	
PCB-16	1.77e+06	1.06 y	24:48	1.36	346		-	-	*	
PCB-32	1.95e+06	1.07 y	24:49	1.53	339		-	-	*	
13C-PCB-19	3.76e+07	1.07 y	22:04	0.51	8980					89.8
13C-PCB-9	8.27e+07	1.59 y	19:51	-	84.9					
PCB-34	4.04e+04	1.05 y	25:34	1.14	6.23	J	-	-	*	
PCB-23	*	* n	NotFnd	1.35	*		1420	1100	4.12	
PCB-29	5.60e+04	1.11 y	25:54	1.30	7.52	J	-	-	*	
PCB-26	1.16e+06	1.04 y	26:06	1.24	163		-	-	*	
PCB-25	6.69e+05	1.09 y	26:16	1.22	95.5		-	-	*	
PCB-31	6.08e+06	1.02 y	26:35	1.28	833		-	-	*	
PCB-28	6.30e+06	1.05 y	26:41	1.42	777		-	-	*	
PCB-20	3.90e+06	1.01 y	27:18	1.18	579		-	-	*	Co-elute PCB 21/33
PCB-21	3.90e+06	1.01 y	27:18	1.18	579		-	-	*	Co-elute PCB 20/33
PCB-33	3.90e+06	1.01 y	27:18	1.18	579		-	-	*	Co-elute PCB 20/21
PCB-22	2.09e+06	0.99 y	27:42	1.23	296		-	-	*	
PCB-36	3.32e+06	1.03 y	28:17	1.18	493		-	-	*	
PCB-39	*	* n	NotFnd	1.17	*		1420	1100	4.78	
PCB-38	*	* n	NotFnd	1.17	*		1420	1100	4.77	
PCB-35	*	* n	NotFnd	1.03	*		1420	1100	5.40	
PCB-37	8.62e+05	1.05 y	30:22	1.09	139		-	-	*	
13C-PCB-37	5.72e+07	1.02 y	30:21	1.32	9230					92.3

PCB-54	3.01e+04	0.72	y	25:36	1.19	5.43	J	-	-	*	
PCB-50	3.20e+04	0.75	y	26:43	0.93	7.34	J	-	-	*	
PCB-53	6.55e+05	0.83	y	27:19	0.92	153		-	-	*	
PCB-51	2.16e+05	0.79	y	27:38	0.96	48.4		-	-	*	
PCB-45	6.09e+05	0.79	y	28:03	0.79	165		-	-	*	
PCB-46	2.46e+05	0.85	y	28:30	0.75	70.7		-	-	*	
PCB-52	2.83e+06	0.80	y	28:56	0.93	649		-	-	*	Co-elute PCB 69
PCB-69	2.83e+06	0.80	y	28:56	0.93	649		-	-	*	Co-elute PCB 52
PCB-73	9.78e+04	0.80	y	29:04	1.15	18.3	J	-	-	*	
PCB-43	1.92e+06	0.80	y	29:14	0.81	510		-	-	*	Co-elute PCB 49
PCB-49	1.92e+06	0.80	y	29:14	0.81	510		-	-	*	Co-elute PCB 43
PCB-47	7.08e+05	0.81	y	29:25	0.86	176		-	-	*	
PCB-48	7.16e+05	0.85	y	29:32	1.04	148		-	-	*	Co-elute PCB 75
PCB-75	7.16e+05	0.85	y	29:32	1.04	148		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.05	*		750	988	3.38	
PCB-62	*	*	n	NotFnd	1.09	*		750	988	3.26	
PCB-44	1.82e+06	0.83	y	30:11	0.69	567		-	-	*	
PCB-42	9.62e+05	0.80	y	30:23	0.90	229		-	-	*	Co-elute PCB 59
PCB-59	9.62e+05	0.80	y	30:23	0.90	229		-	-	*	Co-elute PCB 42
PCB-72	2.26e+06	0.78	y	30:58	0.96	505		-	-	*	Co-elute PCB 41/71/64
PCB-41	2.26e+06	0.78	y	30:58	0.96	505		-	-	*	Co-elute PCB 72/71/64
PCB-71	2.26e+06	0.78	y	30:58	0.96	505		-	-	*	Co-elute PCB 72/41/64
PCB-64	2.26e+06	0.78	y	30:58	0.96	505		-	-	*	Co-elute PCB 72/41/71
PCB-68	5.46e+04	0.87	y	31:11	1.11	10.5	J	-	-	*	
PCB-40	3.53e+05	0.88	y	31:24	0.60	126		-	-	*	
PCB-57	2.62e+04	0.70	y	31:44	1.00	5.61	J	-	-	*	
PCB-67	9.61e+04	0.66	y	32:02	0.94	21.8		-	-	*	
PCB-58	*	*	n	NotFnd	1.06	*		750	988	3.36	
PCB-63	8.67e+04	0.86	y	32:19	1.00	18.6	J	-	-	*	
PCB-74	8.81e+05	0.81	y	32:34	0.97	194		-	-	*	
PCB-61	1.78e+06	0.81	y	32:46	0.93	410		-	-	*	Co-elute PCB 70
PCB-70	1.78e+06	0.81	y	32:46	0.93	410		-	-	*	Co-elute PCB 61
PCB-76	1.71e+06	0.86	y	32:58	1.02	358		-	-	*	Co-elute PCB 66
PCB-66	1.71e+06	0.86	y	32:58	1.02	358		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.20	*		750	988	2.95	
PCB-55	1.73e+05	0.73	y	33:29	1.03	36.1		-	-	*	
13C-PCB-54	4.67e+07	0.85	y	25:35	1.26	7920					79.2
PCB-104	5.58e+06	1.55	y	30:02	1.08	1160		-	-	*	
PCB-96	2.32e+04	1.39	y	31:14	0.98	5.30	J	-	-	*	
PCB-103	2.67e+04	1.46	y	31:44	0.77	7.76	J	-	-	*	
PCB-100	2.91e+04	1.41	y	32:05	0.79	8.31	J	-	-	*	
PCB-94	*	*	n	NotFnd	0.64	*		252	348	2.13	
PCB-98	*	*	n	NotFnd	0.65	*		252	348	2.09	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.65	*		252	348	2.09	Co-elute PCB 98
PCB-95	1.08e+06	1.59	y	33:01	0.69	352		-	-	*	
PCB-93	*	*	n	NotFnd	0.69	*		252	348	1.97	
PCB-88	*	*	n	NotFnd	0.72	*		252	348	1.88	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.72	*		252	348	1.88	Co-elute PCB 88
PCB-121	8.95e+06	1.57	y	33:28	0.87	2300		-	-	*	
13C-PCB-104	4.45e+07	1.61	y	30:01	1.00	9430					94.3
13C-PCB-28	8.20e+07	1.06	y	26:40	1.67	10500					105
13C-PCB-52	4.70e+07	0.82	y	28:55	-	95.4					

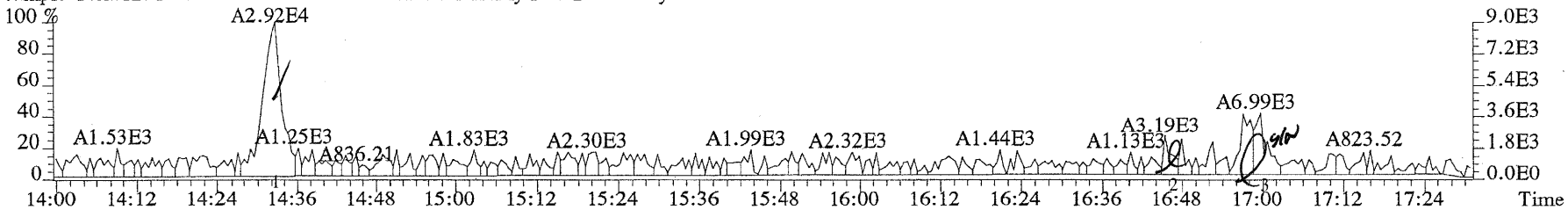
PCB-56	9.43e+05	0.83	y	33:57	1.02	213			-	-	*	Co-elute PCB 60
PCB-60	9.43e+05	0.83	y	33:57	1.02	213			-	-	*	Co-elute PCB 56
PCB-79	1.91e+04	0.87	y	34:58	1.16	3.81	J		-	-	*	
PCB-78	6.41e+06	0.80	y	35:38	1.11	1330			-	-	*	
PCB-81	8.14e+04	0.75	y	36:10	1.17	16.3	J		-	-	*	
13C-PCB-81	4.27e+07	0.80	y	36:06	1.41	9020						90.2
PCB-77	1.16e+05	0.71	y	36:41	1.00	26.5			-	-	*	
13C-PCB-77	4.40e+07	0.80	y	36:40	1.45	8980						89.8
PCB-155	7.93e+06	1.30	y	34:11	1.01	1980			-	-	*	
PCB-150	*	*	n	NotFnd	0.98	*		512	256	2.20	
PCB-152	*	*	n	NotFnd	0.87	*		512	256	2.47	
PCB-145	*	*	n	NotFnd	0.96	*		512	256	2.23	
PCB-136	1.69e+05	1.26	y	36:34	0.94	45.5			-	-	*	
PCB-148	*	*	n	NotFnd	0.63	*		512	256	3.39	
PCB-154	4.36e+04	1.36	y	37:05	0.79	14.0	J		-	-	*	
13C-PCB-155	3.96e+07	1.26	y	34:09	1.27	9300						93.0
13C-PCB-111	3.86e+07	1.62	y	36:15	1.24	9290						92.9
13C-PCB-101	3.37e+07	1.60	y	34:36	-	89.9						
PCB-84	5.17e+05	1.64	y	34:16	0.83	163			-	-	*	Co-elute PCB 92
PCB-92	5.17e+05	1.64	y	34:16	0.83	163			-	-	*	Co-elute PCB 84
PCB-89	2.28e+04	1.41	y	34:27	0.81	7.29	J		-	-	*	
PCB-90	1.10e+06	1.57	y	34:37	0.91	315			-	-	*	Co-elute PCB 101
PCB-101	1.10e+06	1.57	y	34:37	0.91	315			-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.04	*		1080	750	5.18	
PCB-99	4.91e+05	1.39	y	34:56	1.00	127			-	-	*	
PCB-119	4.12e+04	1.55	y	35:22	1.15	9.32	J		-	-	*	
PCB-83	5.06e+04	1.55	y	35:32	0.91	14.5	J		-	-	*	Co-elute PCB 112
PCB-112	5.06e+04	1.55	y	35:32	0.91	14.5	J		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.09	*		1080	750	4.98	
PCB-97	2.49e+05	1.60	y	35:52	0.75	86.9			-	-	*	
PCB-86	2.76e+04	1.56	y	35:58	0.83	8.66	J		-	-	*	
PCB-125	3.99e+05	1.48	y	36:08	0.99	105			-	-	*	Co-elute PCB 87/117
PCB-87	3.99e+05	1.48	y	36:08	0.99	105			-	-	*	Co-elute PCB 125/117
PCB-117	3.99e+05	1.48	y	36:08	0.99	105			-	-	*	Co-elute PCB 125/87
PCB-111	2.79e+04	1.53	y	36:15	1.14	6.35	J		-	-	*	Co-elute PCB 115
PCB-115	2.79e+04	1.53	y	36:15	1.14	6.35	J		-	-	*	Co-elute PCB 111
PCB-85	1.65e+05	1.65	y	36:22	0.99	43.6			-	-	*	Co-elute PCB 116
PCB-116	1.65e+05	1.65	y	36:22	0.99	43.6			-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.18	*		1080	750	4.58	
PCB-110	1.13e+06	1.70	y	36:45	1.13	261			-	-	*	
PCB-82	8.85e+04	1.54	y	37:22	0.66	35.0			-	-	*	
PCB-124	4.12e+04	1.35	y	37:59	1.13	9.51	J		-	-	*	
PCB-108	2.24e+04	1.32	y	38:17	1.08	5.39	J		-	-	*	Co-elute PCB 107
PCB-107	2.24e+04	1.32	y	38:17	1.08	5.39	J		-	-	*	Co-elute PCB 108
PCB-123	2.24e+04	1.32	y	38:17	1.02	5.93	J		-	-	*	
13C-PCB-123	3.71e+07	1.56	y	38:17	1.21	9590						95.9
PCB-118	7.04e+05	1.51	y	38:28	1.04	165			-	-	*	Co-elute PCB 106
PCB-106	7.04e+05	1.51	y	38:28	1.04	165			-	-	*	Co-elute PCB 118
13C-PCB-118	4.11e+07	1.58	y	38:27	1.36	9490						94.9
PCB-114	2.33e+04	1.53	y	39:05	1.13	5.38	J		-	-	*	
13C-PCB-114	3.83e+07	1.58	y	39:05	1.26	9490						94.9
PCB-122	*	*	n	NotFnd	1.04	*		388	668	3.00	
PCB-105	2.45e+05	1.50	y	39:54	1.12	58.7			-	-	*	
13C-PCB-105	3.72e+07	1.58	y	39:52	1.26	9220						92.2

PCB-127	*	*	n	NotFnd	1.03	*		388	668	3.05	
PCB-126	*	*	n	NotFnd	1.08	*		388	668	3.45	
13C-PCB-126	3.53e+07	1.56	y	42:01	1.17	9410					94.1
PCB-151	1.96e+05	1.34	y	37:44	0.88	68.5		-	-	*	
PCB-135	1.10e+05	1.27	y	37:56	0.83	40.5		-	-	*	
PCB-144	5.72e+04	1.39	y	38:02	1.01	17.3	J	-	-	*	
PCB-147	1.45e+04	1.11	y	38:10	0.93	4.77	J	-	-	*	
PCB-139	7.06e+05	1.29	y	38:24	0.99	219		-	-	*	Co-elute PCB 149
PCB-149	7.06e+05	1.29	y	38:24	0.99	219		-	-	*	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.93	*		560	472	3.61	
PCB-143	5.04e+04	1.26	y	39:01	0.77	20.1		-	-	*	Co-elute PCB 134
PCB-134	5.04e+04	1.26	y	39:01	0.77	20.1		-	-	*	Co-elute PCB 143
PCB-131	2.36e+04	1.23	y	39:15	0.78	9.30	J	-	-	*	Co-elute PCB 133
PCB-133	2.36e+04	1.23	y	39:15	0.78	9.30	J	-	-	*	Co-elute PCB 131
PCB-142	1.67e+07	1.25	y	39:26	0.77	6660		-	-	*	
PCB-165	2.02e+05	1.11	y	39:39	1.04	59.6		-	-	*	Co-elute PCB 146
PCB-146	2.02e+05	1.11	y	39:39	1.04	59.6		-	-	*	Co-elute PCB 165
PCB-161	2.31e+05	1.10	y	39:54	0.95	74.3		-	-	*	Co-elute PCB 132
PCB-132	2.31e+05	1.10	y	39:54	0.95	74.3		-	-	*	Co-elute PCB 161
PCB-153	8.76e+05	1.26	y	40:01	1.08	248		-	-	*	
PCB-168	*	*	n	NotFnd	1.17	*		560	472	2.86	
PCB-141	1.11e+05	1.39	y	40:43	0.85	40.1		-	-	*	
PCB-137	2.48e+04	1.32	y	41:05	0.77	9.84	J	-	-	*	
PCB-130	3.58e+04	1.08	y	41:11	0.82	13.4	J	-	-	*	
PCB-138	6.90e+05	1.26	y	41:31	1.04	203		-	-	*	Co-elute PCB 163/164
PCB-163	6.90e+05	1.26	y	41:31	1.04	203		-	-	*	Co-elute PCB 138/164
PCB-164	6.90e+05	1.26	y	41:31	1.04	203		-	-	*	Co-elute PCB 138/163
PCB-158	8.06e+04	1.23	y	41:46	1.16	21.3		-	-	*	Co-elute PCB 160
PCB-160	8.06e+04	1.23	y	41:46	1.16	21.3		-	-	*	Co-elute PCB 158
PCB-129	2.50e+04	1.32	y	42:01	0.73	10.5	J	-	-	*	
PCB-166	*	*	n	NotFnd	1.09	*		560	472	3.05	
PCB-159	2.34e+04	1.13	y	42:45	1.20	5.94	J	-	-	*	
PCB-128	7.12e+04	1.16	y	43:00	0.94	23.1		-	-	*	Co-elute PCB 162
PCB-162	7.12e+04	1.16	y	43:00	0.94	23.1		-	-	*	Co-elute PCB 128
PCB-167	2.45e+04	1.27	y	43:23	1.07	6.99	J	-	-	*	
13C-PCB-167	3.27e+07	1.28	y	43:21	1.16	8820					88.2
PCB-156	5.00e+04	1.09	y	44:37	1.14	14.1	J	-	-	*	
13C-PCB-156	3.12e+07	1.30	y	44:36	1.16	8400					84.0
PCB-157	2.14e+04	1.36	y	44:52	1.08	5.98	J	-	-	*	
13C-PCB-157	3.30e+07	1.26	y	44:50	1.17	8820					88.2
PCB-169	*	*	n	NotFnd	1.05	*		560	472	3.05	
13C-PCB-169	3.38e+07	1.28	y	46:44	1.16	9090					90.9

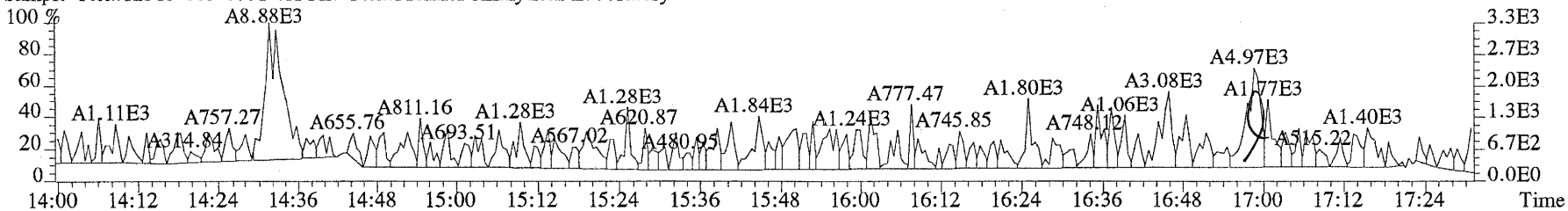
PCB-188	*	*	n	NotFnd	1.09	*		576	320	2.84	
13C-PCB-188	3.20e+07	1.07	y	39:39	1.15	8720					87.2
PCB-184	9.98e+06	1.05	y	40:06	1.21	2580		-	-	*	
PCB-179	7.95e+04	0.96	y	40:50	1.15	21.6		-	-	*	
PCB-176	2.57e+04	1.08	y	41:18	1.11	7.24	J	-	-	*	
PCB-186	*	*	n	NotFnd	1.12	*		576	320	2.33	
PCB-178	3.06e+04	1.00	y	42:19	0.77	12.4	J	-	-	*	
PCB-175	*	*	n	NotFnd	0.80	*		576	320	3.28	
PCB-187	1.45e+05	1.08	y	42:47	0.89	51.0		-	-	*	Co-elute PCB 182
PCB-182	1.45e+05	1.08	y	42:47	0.89	51.0		-	-	*	Co-elute PCB 187
PCB-183	7.56e+04	0.98	y	43:05	0.86	27.3		-	-	*	
PCB-185	*	*	n	NotFnd	0.79	*		576	320	3.33	
PCB-174	1.01e+05	1.11	y	44:04	0.81	38.9		-	-	*	
PCB-181	*	*	n	NotFnd	0.78	*		576	320	3.38	
PCB-177	5.83e+04	1.05	y	44:19	0.73	24.9		-	-	*	
PCB-171	2.69e+04	1.13	y	44:36	0.80	10.5	J	-	-	*	
PCB-173	*	*	n	NotFnd	0.70	*		576	320	3.74	
PCB-172	1.46e+05	0.96	y	45:23	0.75	60.6		-	-	*	
PCB-192	6.21e+06	1.07	y	45:35	0.99	1960		-	-	*	
PCB-180	1.76e+05	1.19	y	45:45	0.77	71.0		-	-	*	
PCB-193	*	*	n	NotFnd	1.04	*		576	320	2.51	
PCB-191	*	*	n	NotFnd	1.04	*		576	320	2.53	
PCB-170	6.47e+04	1.02	y	47:04	0.78	26.0		-	-	*	
PCB-190	*	*	n	NotFnd	1.05	*		576	320	2.49	
PCB-189	*	*	n	NotFnd	1.12	*		576	320	1.92	
13C-PCB-189	3.21e+07	1.07	y	48:23	1.01	9900					99.0
PCB-202	*	*	n	NotFnd	0.98	*		248	400	2.49	
PCB-201	*	*	n	NotFnd	1.07	*		248	400	2.30	
PCB-204	1.44e+07	0.91	y	45:22	1.04	5060		-	-	*	
PCB-197	1.12e+05	0.90	y	45:38	1.10	37.2		-	-	*	
PCB-200	*	*	n	NotFnd	1.06	*		248	400	2.32	
PCB-198	*	*	n	NotFnd	0.82	*		248	400	3.00	
PCB-199	2.94e+04	0.96	y	47:40	0.77	14.0	J	-	-	*	
PCB-203	3.03e+04	0.81	y	47:53	0.85	13.1	J	-	-	*	Co-elute PCB 196
PCB-196	3.03e+04	0.81	y	47:53	0.85	13.1	J	-	-	*	Co-elute PCB 203
13C-PCB-202	2.73e+07	0.89	y	44:45	0.96	8920					89.2
13C-PCB-178	2.47e+07	1.05	y	42:17	0.74	10400					104
13C-PCB-138	3.20e+07	1.28	y	41:30	-	88.1					
PCB-195	*	*	n	NotFnd	0.77	*		908	900	4.23	
PCB-194	2.51e+04	0.76	y	49:48	0.82	8.15	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.05	*		908	900	3.10	
13C-PCB-205	3.75e+07	0.89	y	50:02	1.30	8870					88.7
PCB-208	*	*	n	NotFnd	1.00	*		772	800	3.34	
13C-PCB-208	3.43e+07	0.79	y	49:06	1.34	7870					78.7
PCB-207	7.34e+04	1.46	y	49:25	1.17	20.7		-	-	*	
PCB-206	*	*	n	NotFnd	1.05	*		772	800	4.13	
13C-PCB-206	2.63e+07	0.81	y	51:14	0.95	8550					85.5
PCB-209	8.86e+04	1.12	y	52:26	1.11	24.9		-	-	*	
13C-PCB-209	3.21e+07	1.20	y	52:25	1.24	8010					80.1
13C-PCB-194	3.24e+07	0.89	y	49:47	-	101					

Analyst: _____ Date: 8/8/19

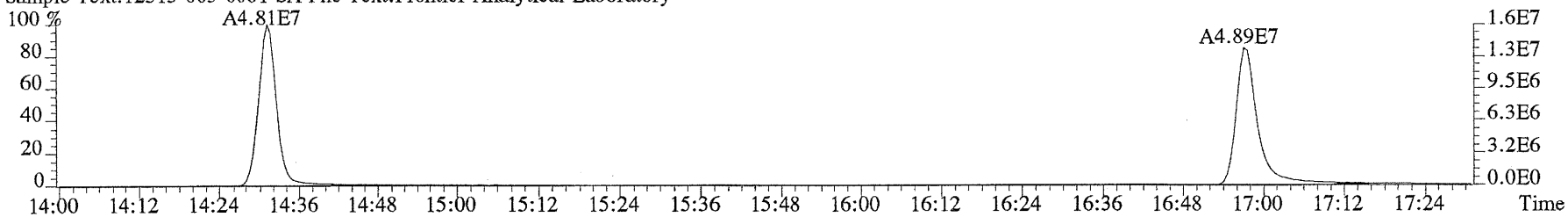
File:07AUG19Z #1-784 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



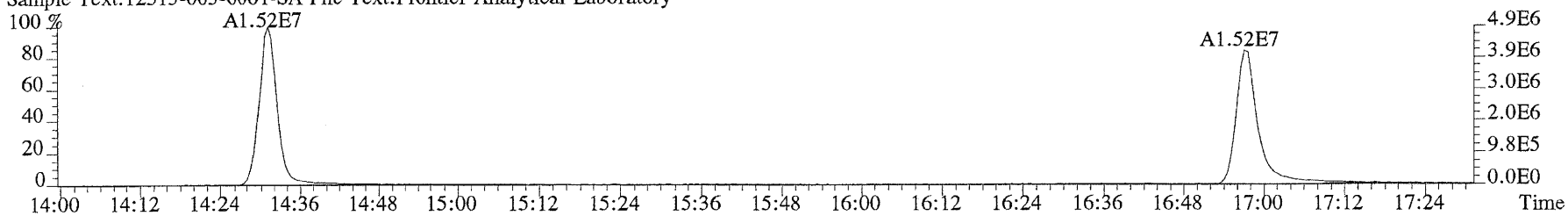
File:07AUG19Z #1-784 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



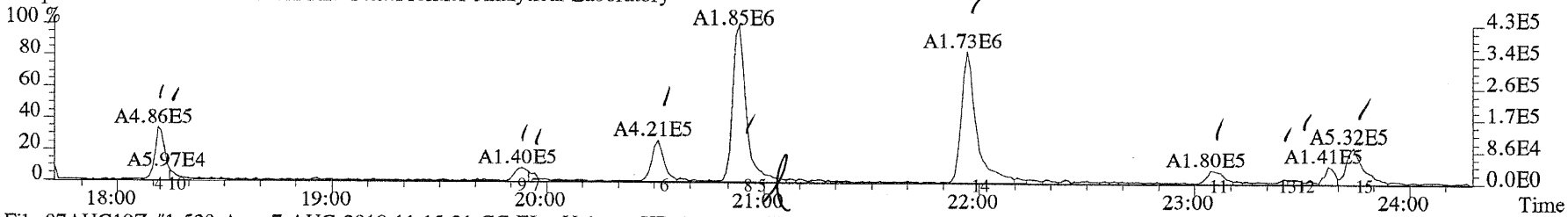
File:07AUG19Z #1-784 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



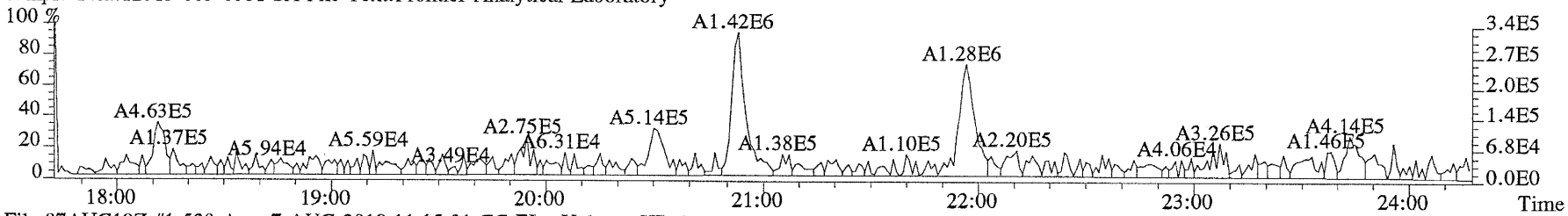
File:07AUG19Z #1-784 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



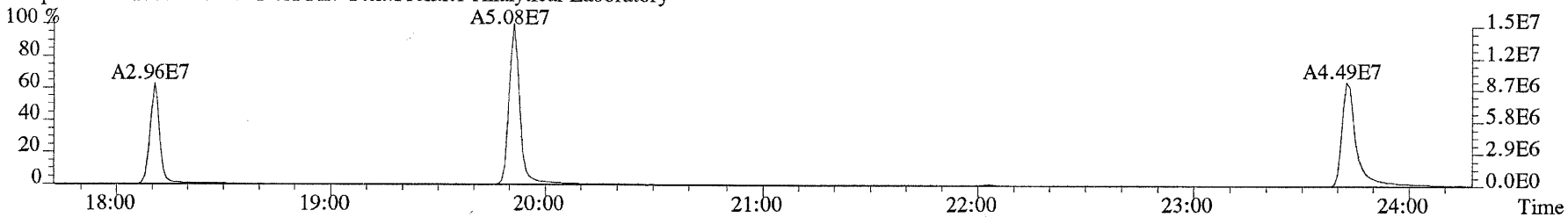
File:07AUG19Z #1-520 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



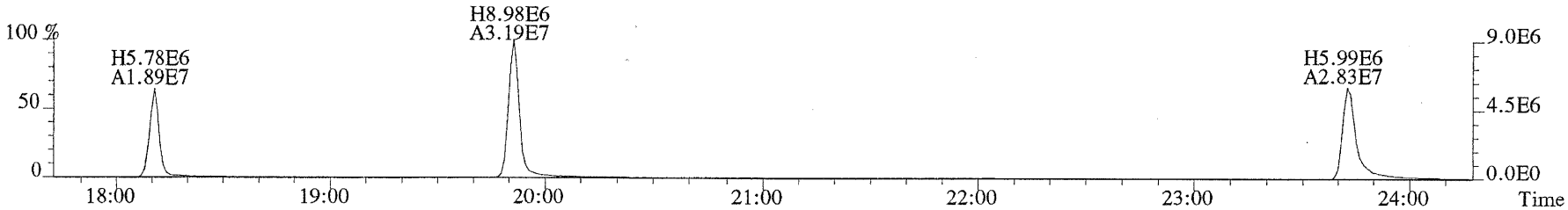
File:07AUG19Z #1-520 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



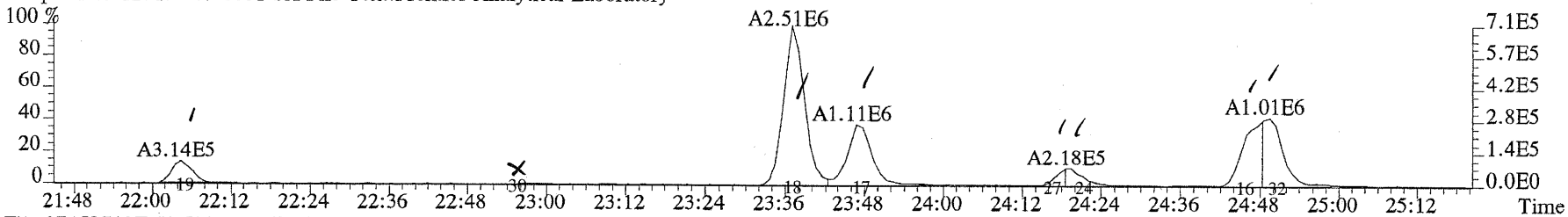
File:07AUG19Z #1-520 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



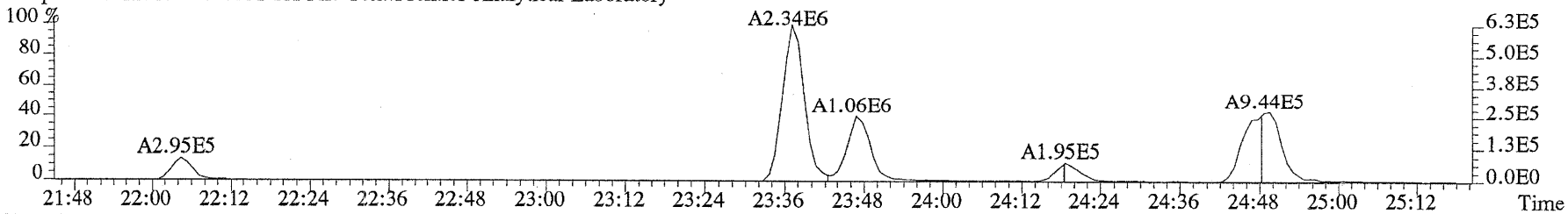
File:07AUG19Z #1-520 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



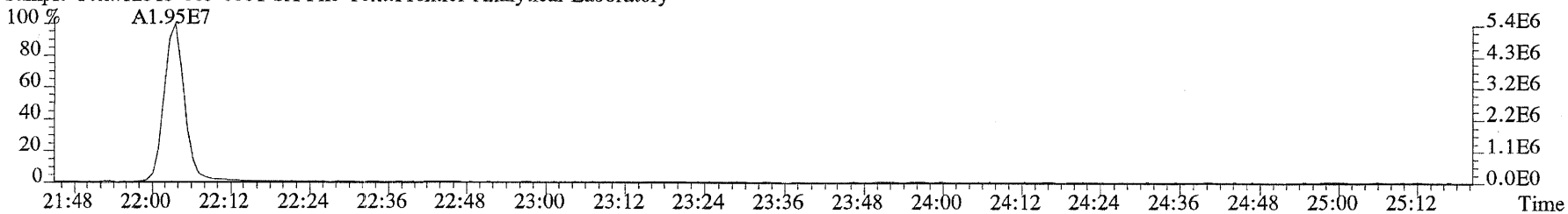
File:07AUG19Z #1-520 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



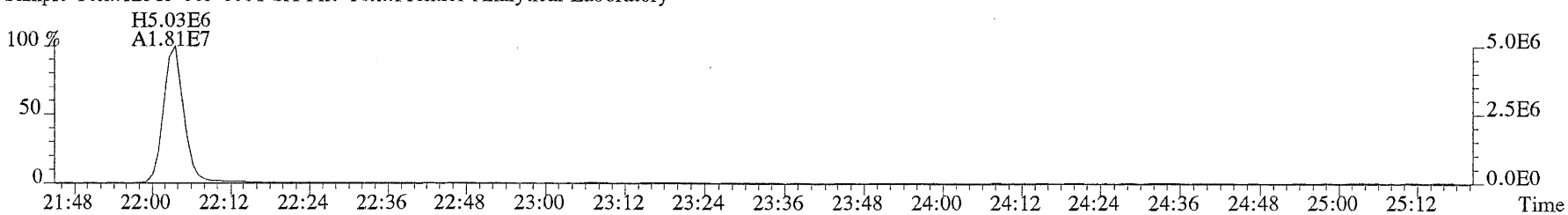
File:07AUG19Z #1-520 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



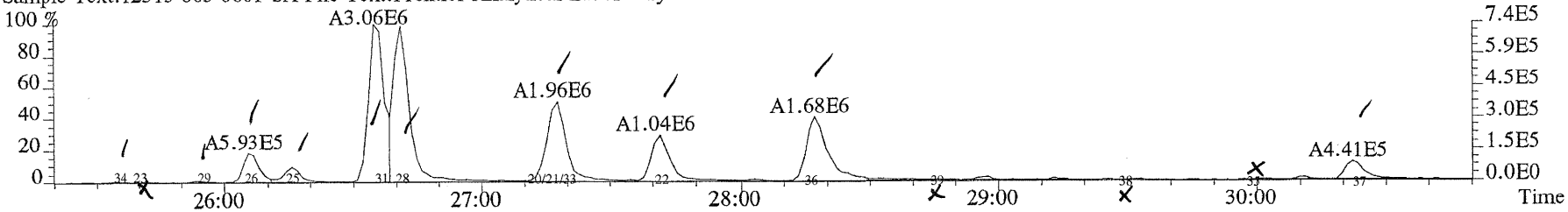
File:07AUG19Z #1-520 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



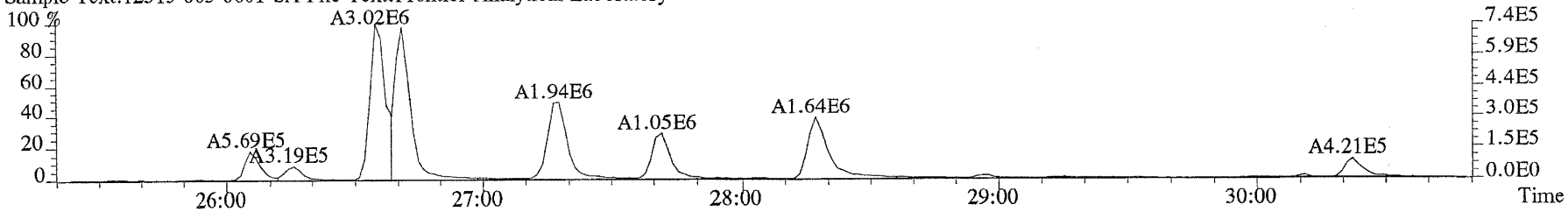
File:07AUG19Z #1-520 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



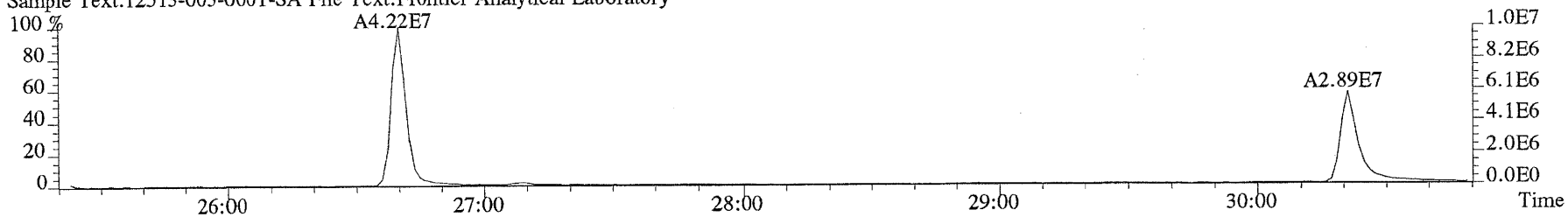
File:07AUG19Z #1-401 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



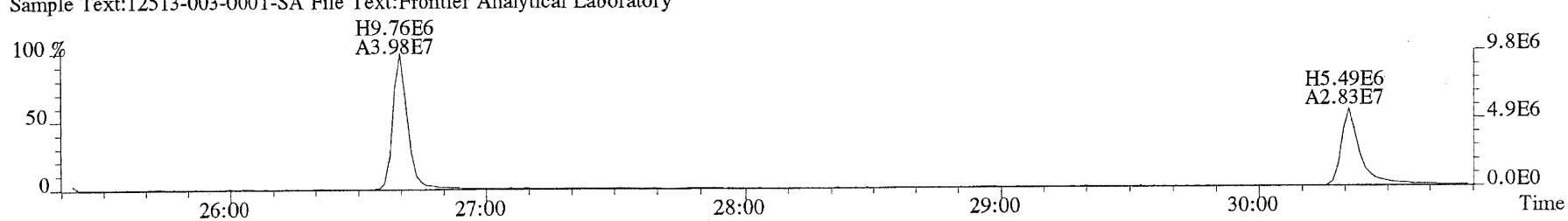
File:07AUG19Z #1-401 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



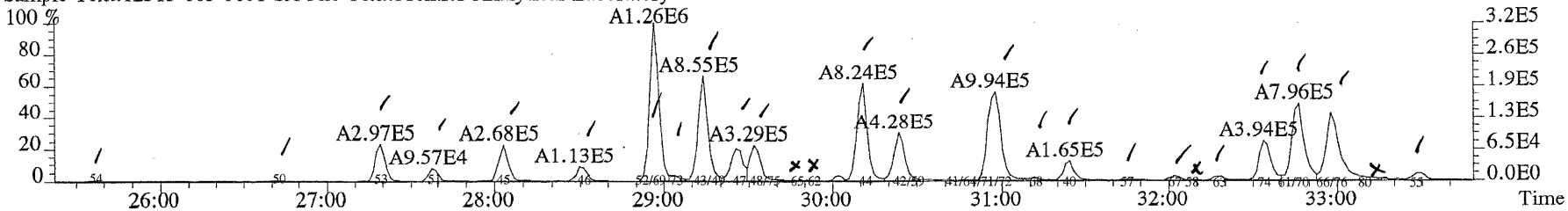
File:07AUG19Z #1-401 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



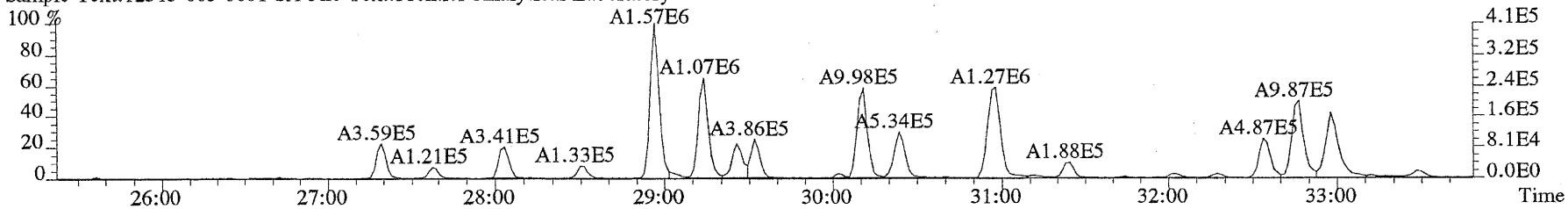
File:07AUG19Z #1-401 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



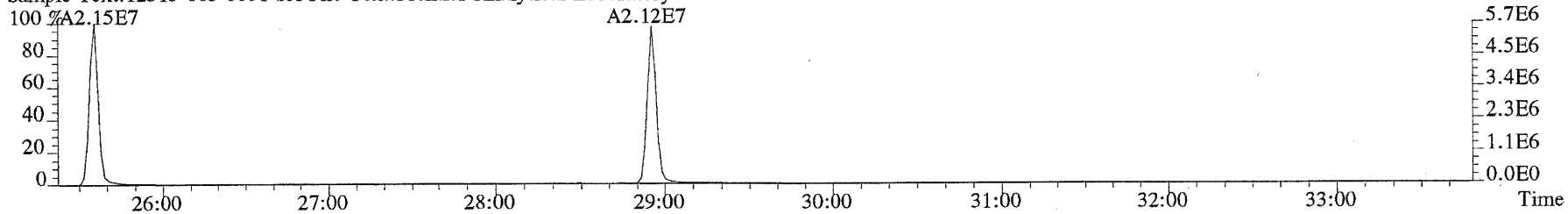
File:07AUG19Z #1-401 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



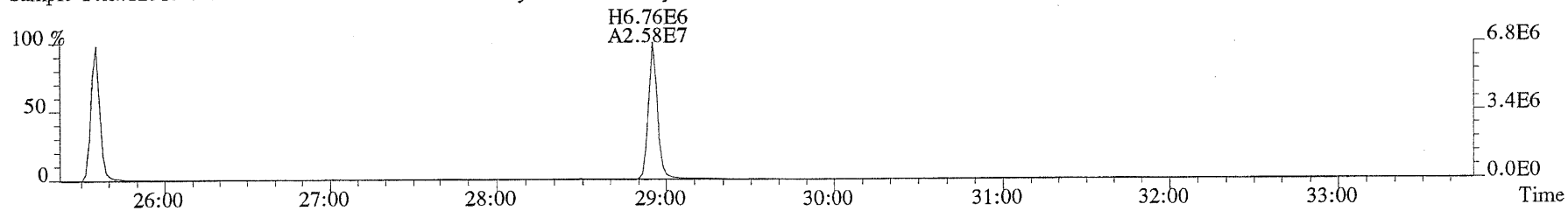
File:07AUG19Z #1-401 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



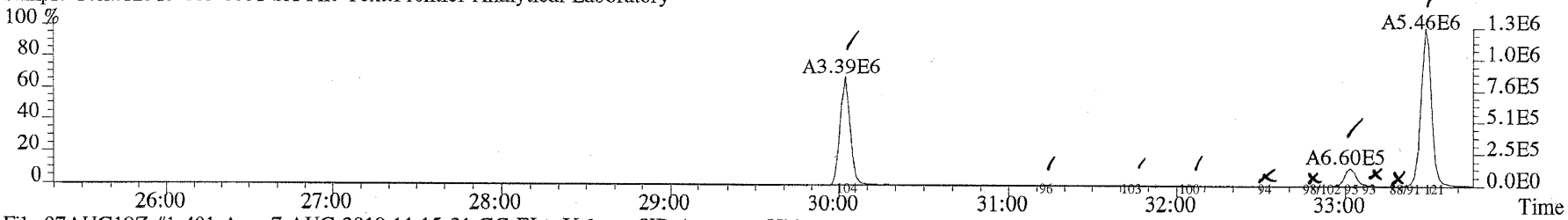
File:07AUG19Z #1-401 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



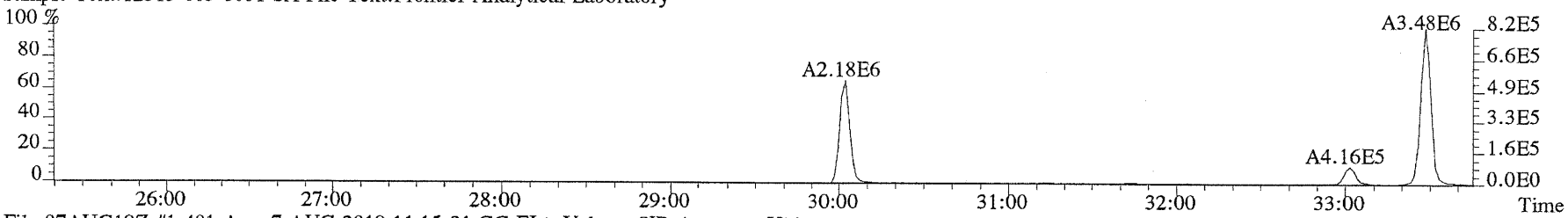
File:07AUG19Z #1-401 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



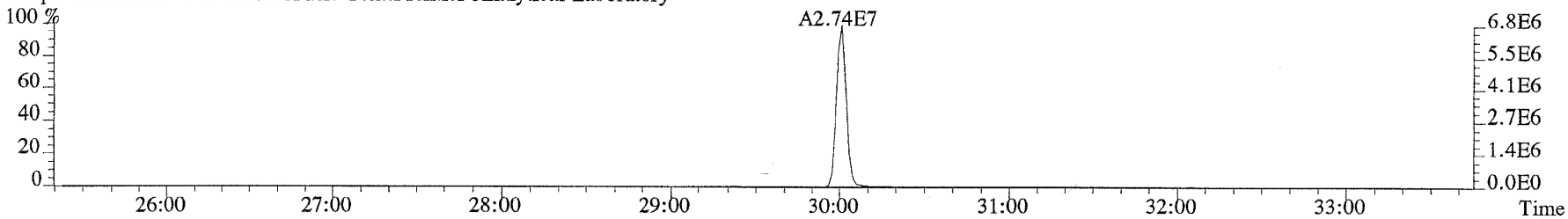
File:07AUG19Z #1-401 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



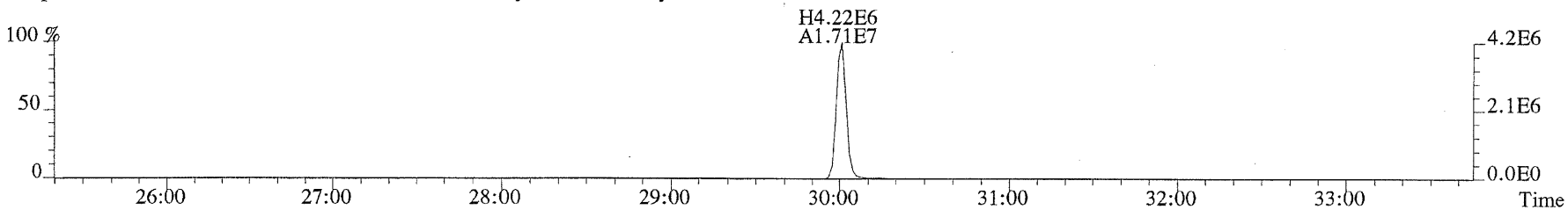
File:07AUG19Z #1-401 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



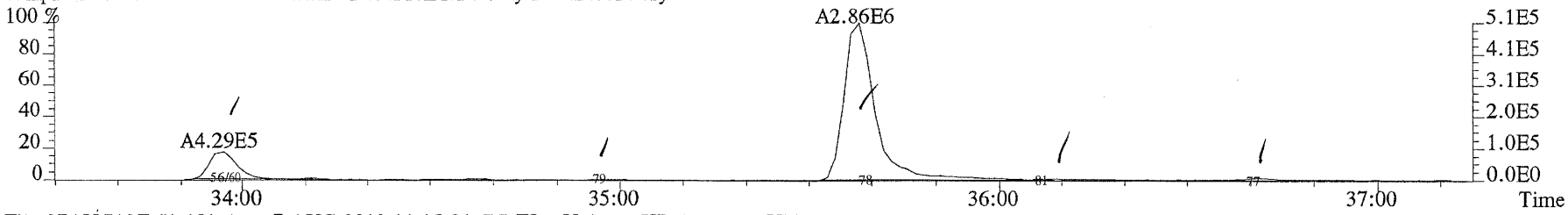
File:07AUG19Z #1-401 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



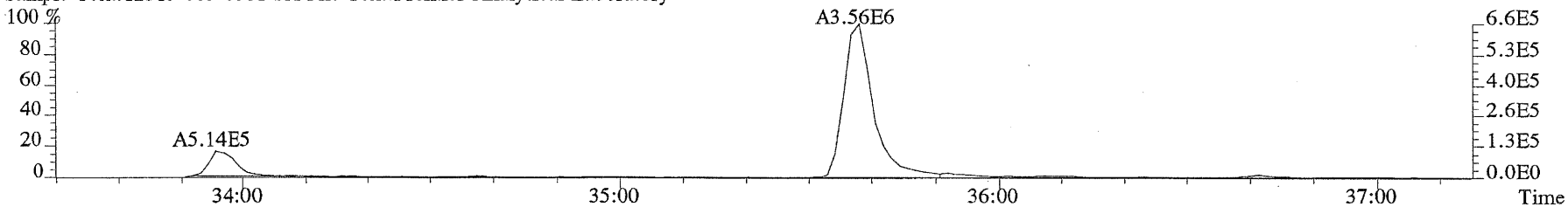
File:07AUG19Z #1-401 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



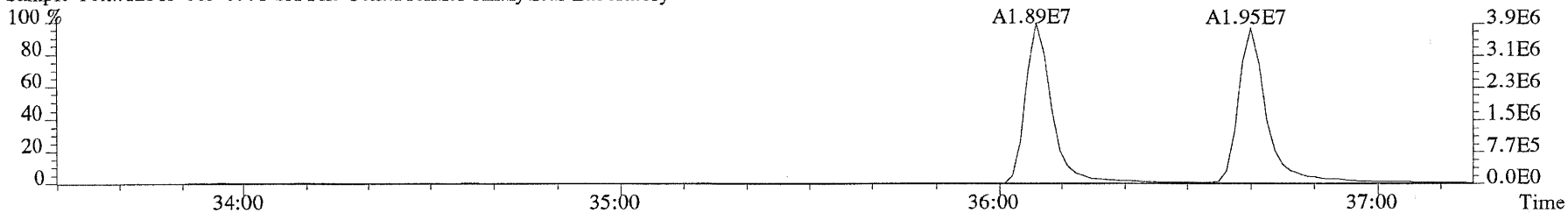
File:07AUG19Z #1-181 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



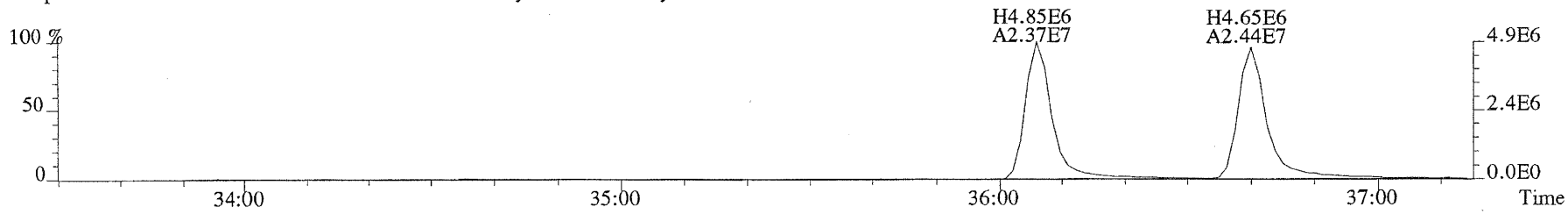
File:07AUG19Z #1-181 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



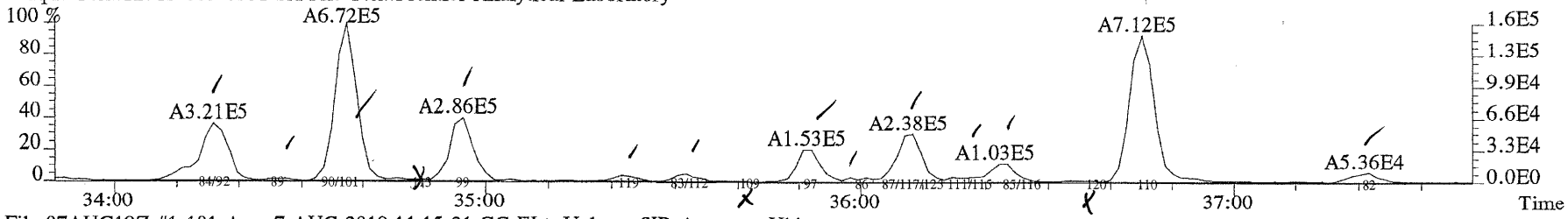
File:07AUG19Z #1-181 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



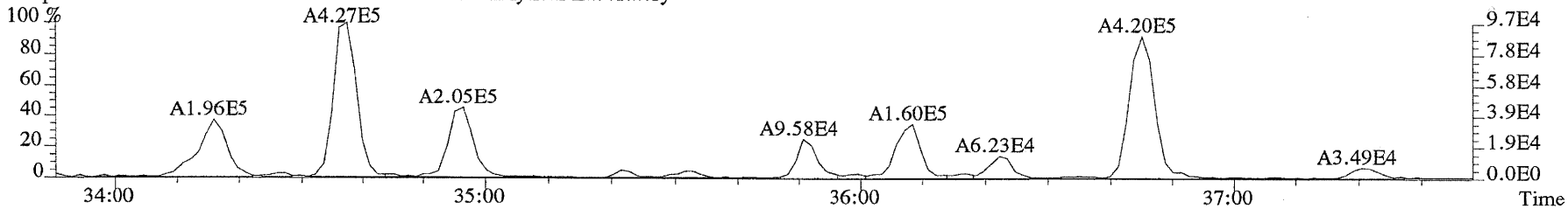
File:07AUG19Z #1-181 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



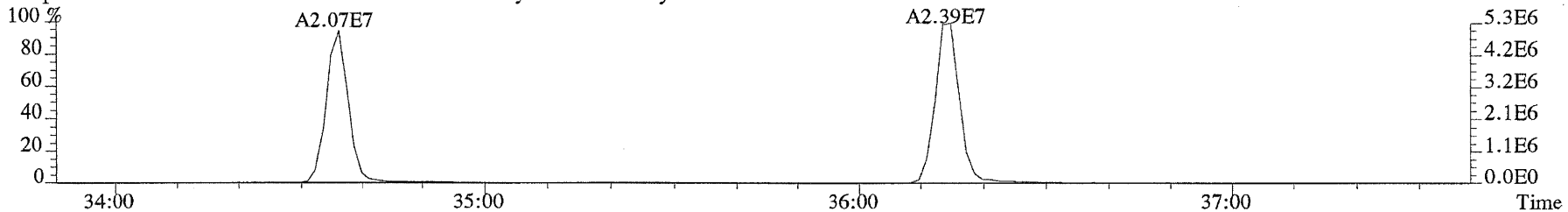
File:07AUG19Z #1-181 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



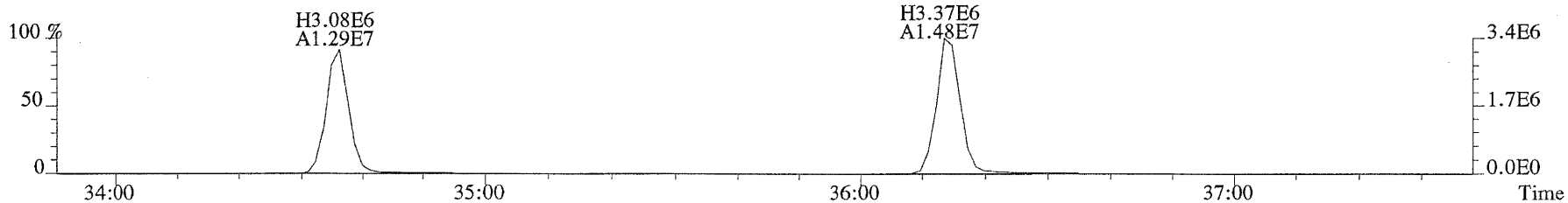
File:07AUG19Z #1-181 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



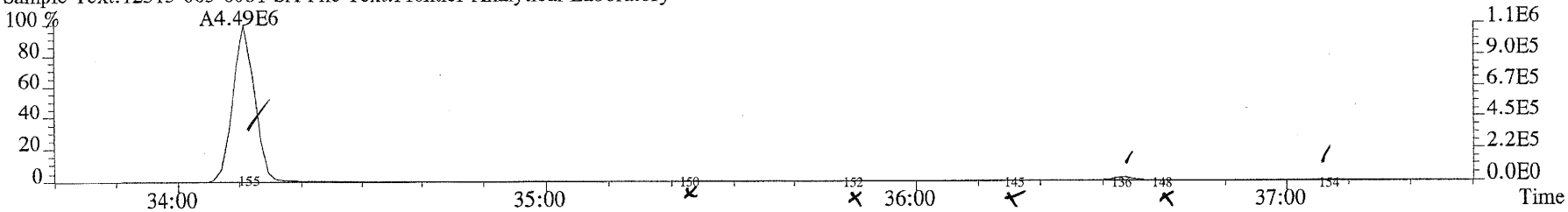
File:07AUG19Z #1-181 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



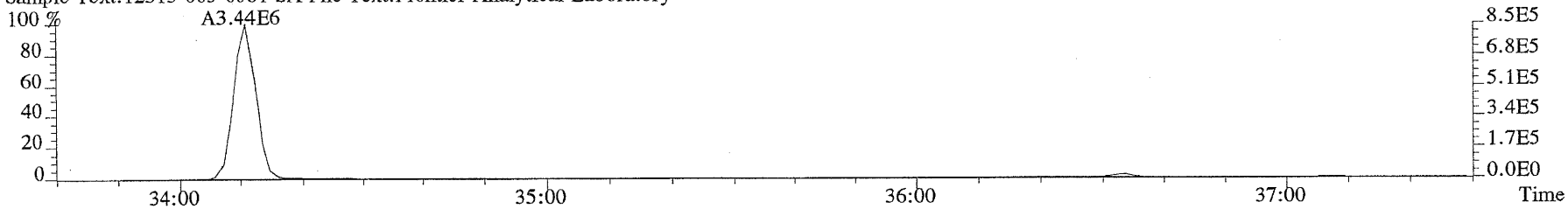
File:07AUG19Z #1-181 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



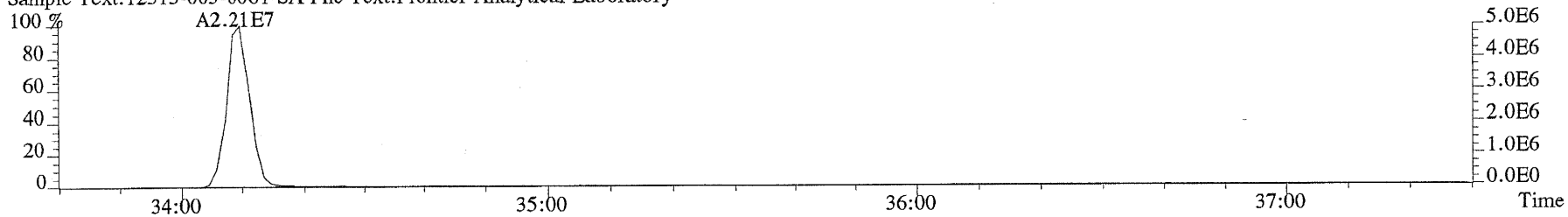
File:07AUG19Z #1-181 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



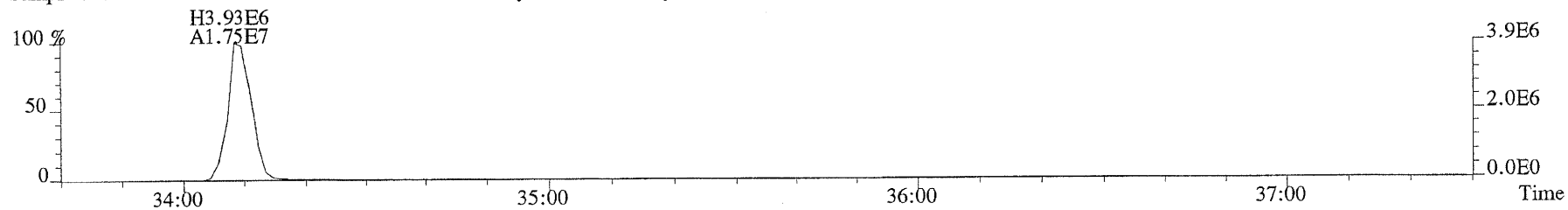
File:07AUG19Z #1-181 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



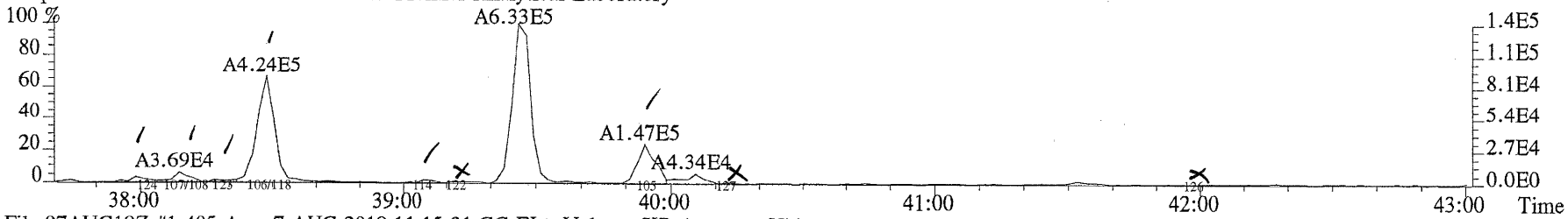
File:07AUG19Z #1-181 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



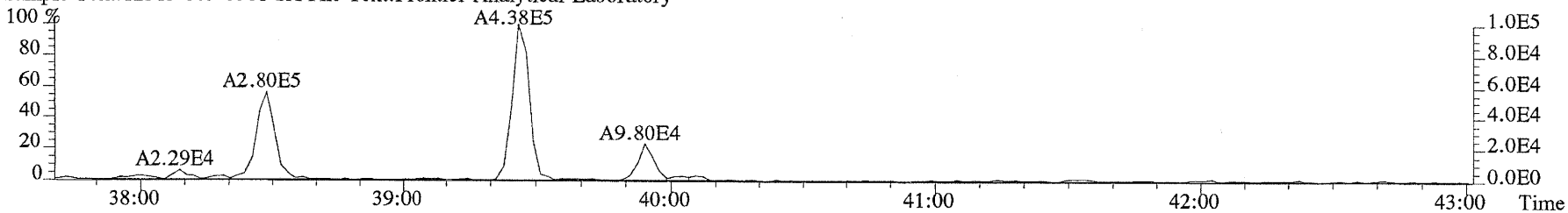
File:07AUG19Z #1-181 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



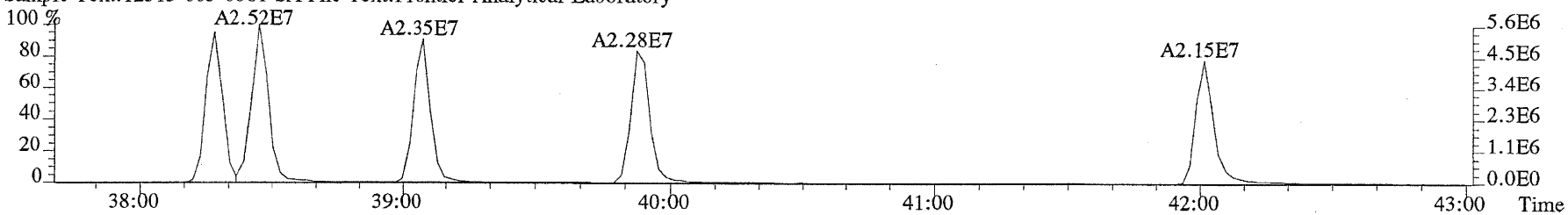
File:07AUG19Z #1-405 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



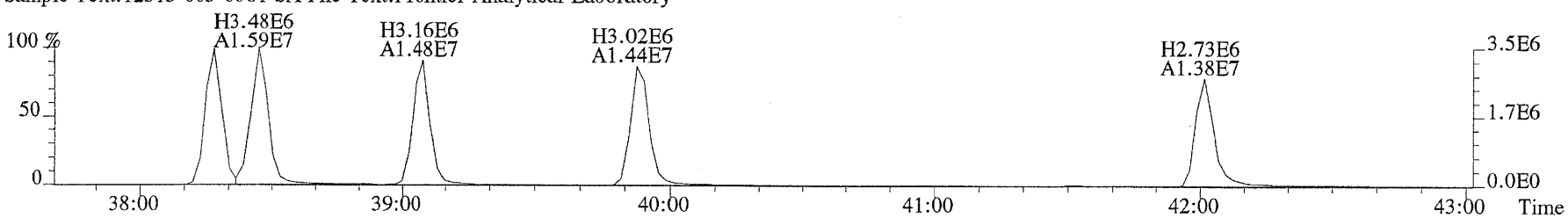
File:07AUG19Z #1-405 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



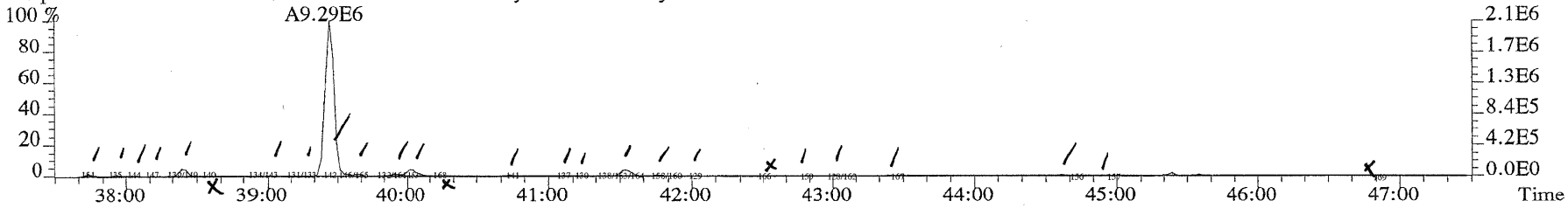
File:07AUG19Z #1-405 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



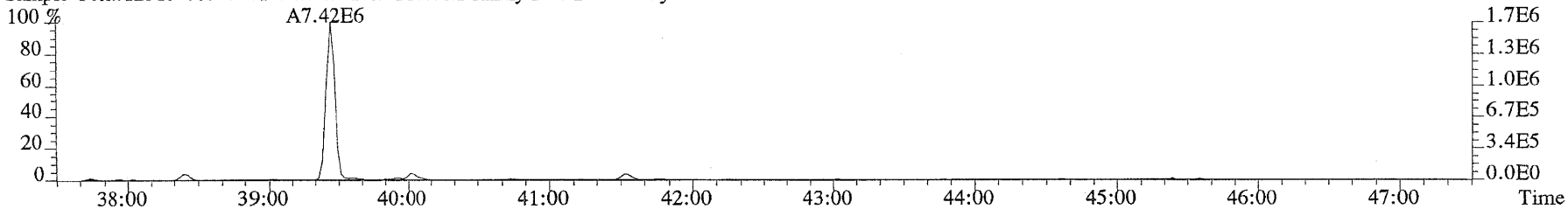
File:07AUG19Z #1-405 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



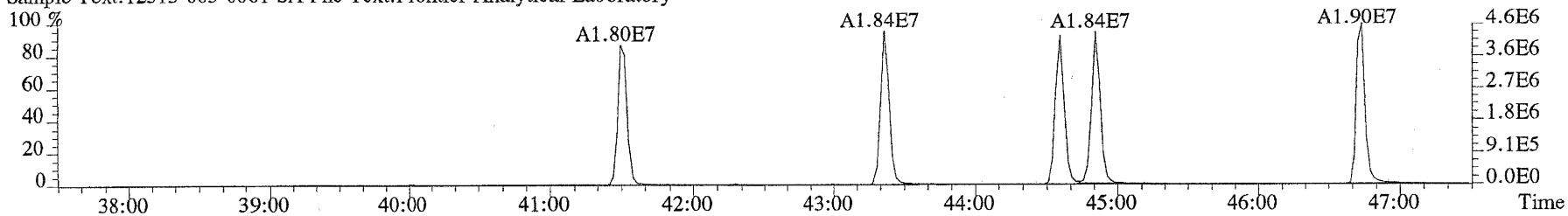
File:07AUG19Z #1-405 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



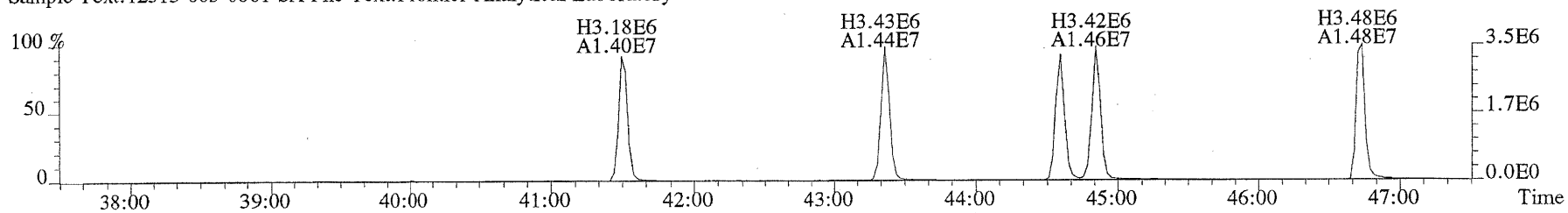
File:07AUG19Z #1-405 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



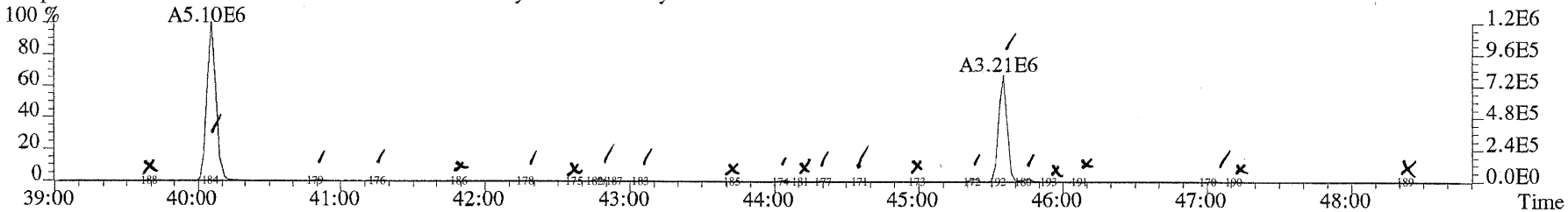
File:07AUG19Z #1-405 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



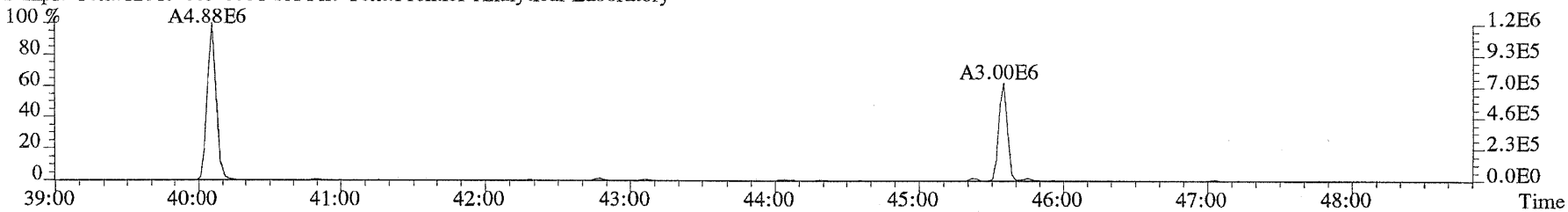
File:07AUG19Z #1-405 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



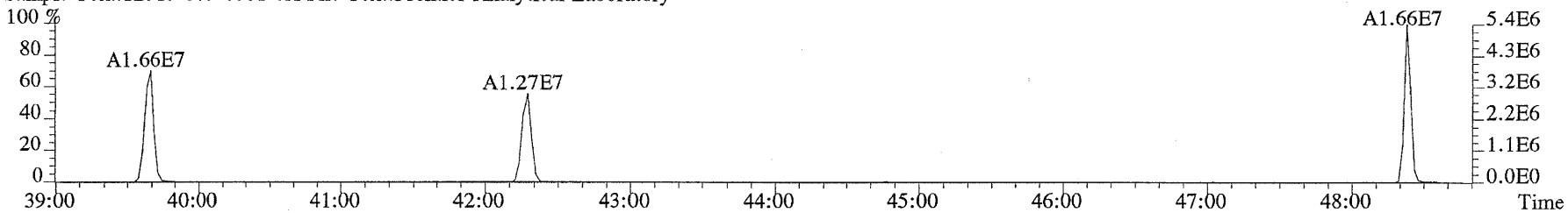
File:07AUG19Z #1-405 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



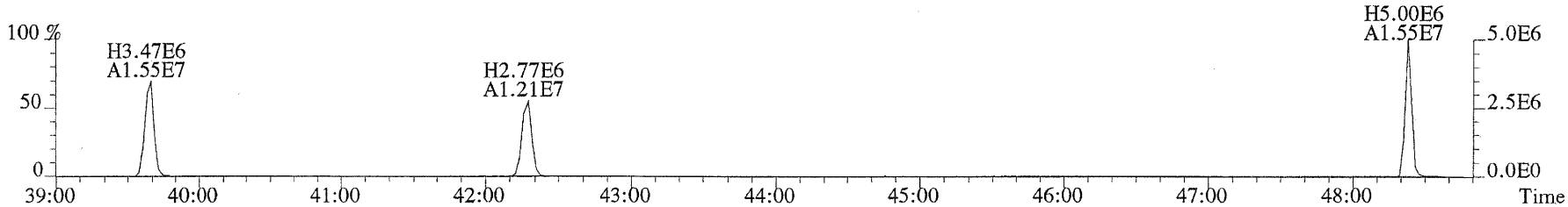
File:07AUG19Z #1-405 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



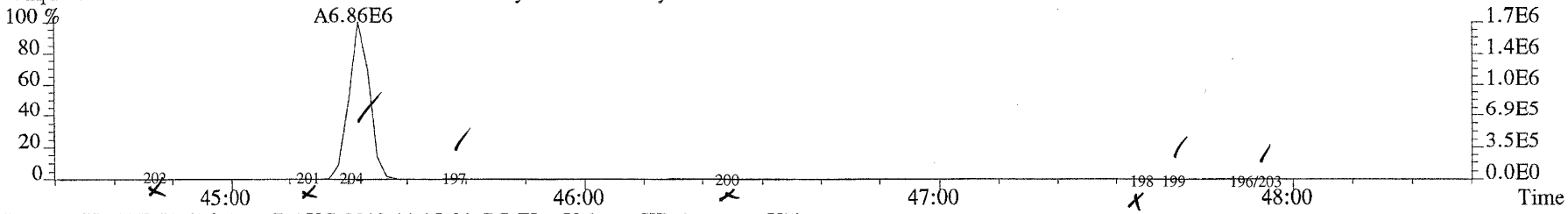
File:07AUG19Z #1-405 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



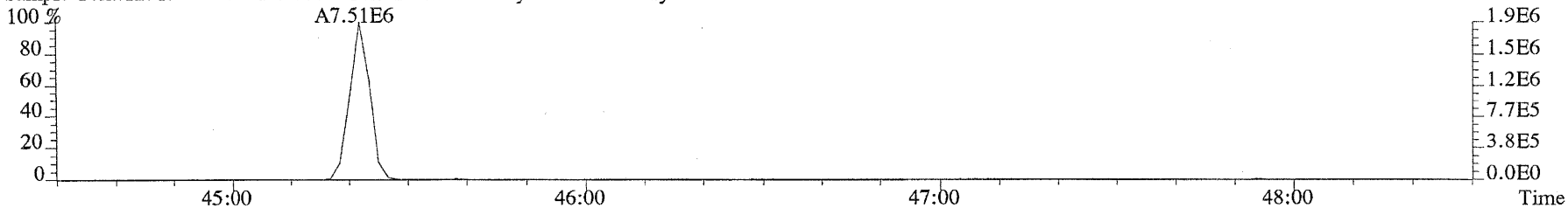
File:07AUG19Z #1-405 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



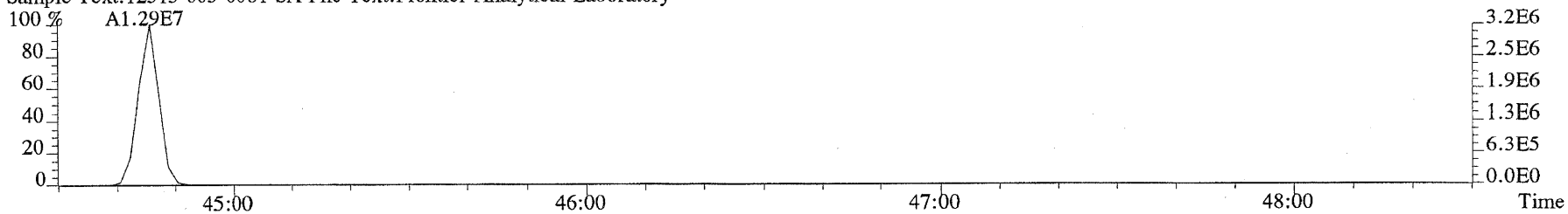
File:07AUG19Z #1-405 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



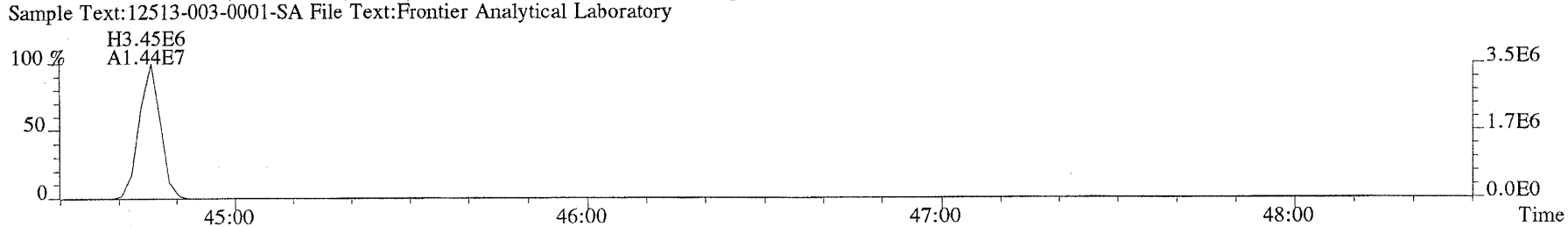
File:07AUG19Z #1-405 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



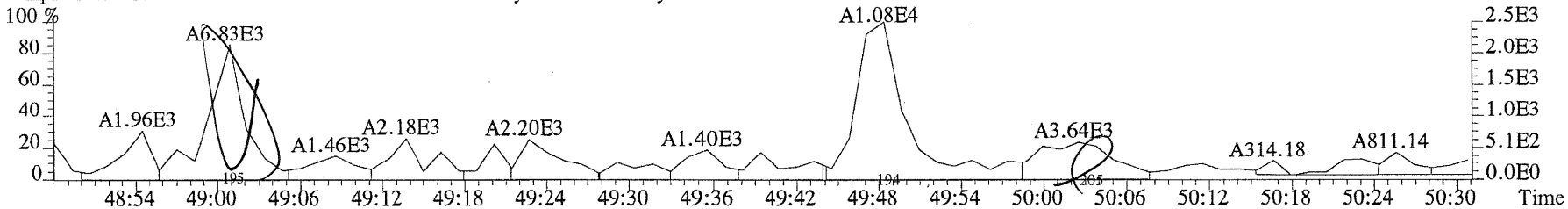
File:07AUG19Z #1-405 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



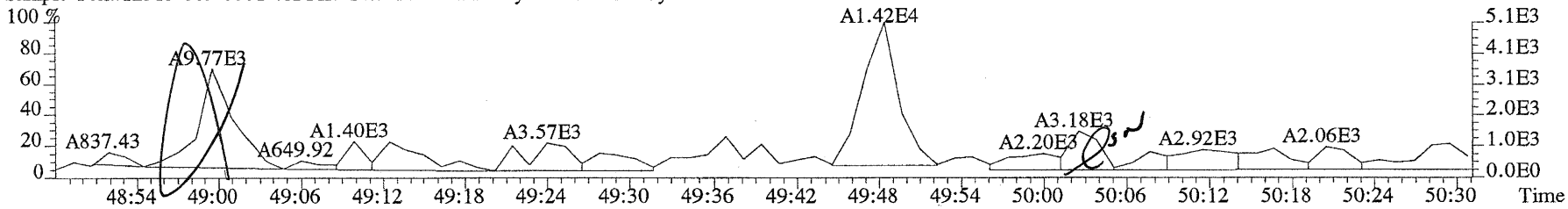
File:07AUG19Z #1-405 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



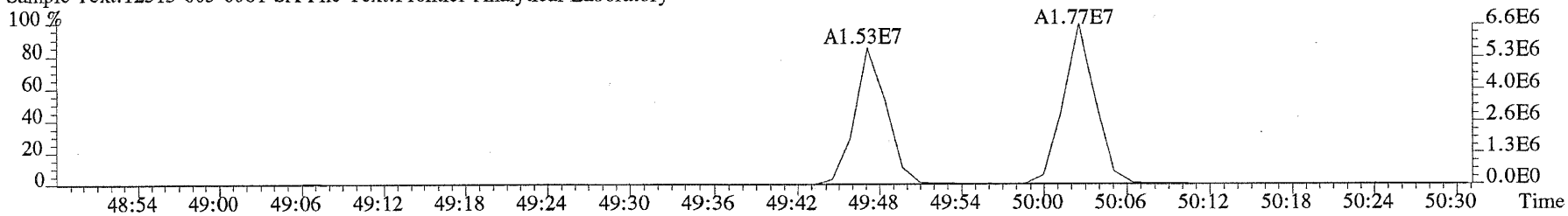
File:07AUG19Z #1-315 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



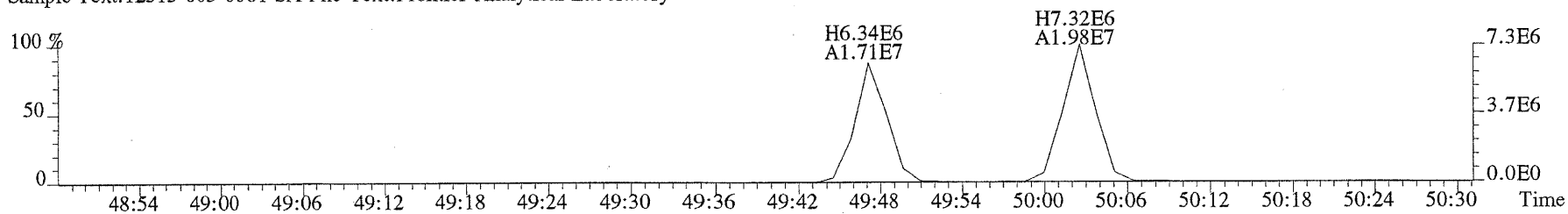
File:07AUG19Z #1-315 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



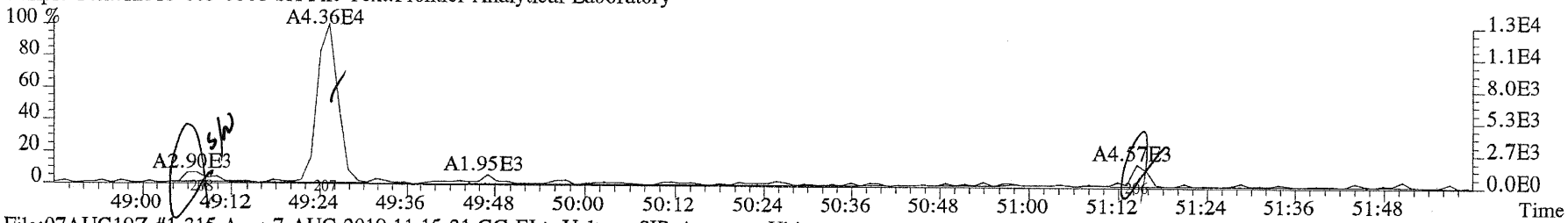
File:07AUG19Z #1-315 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



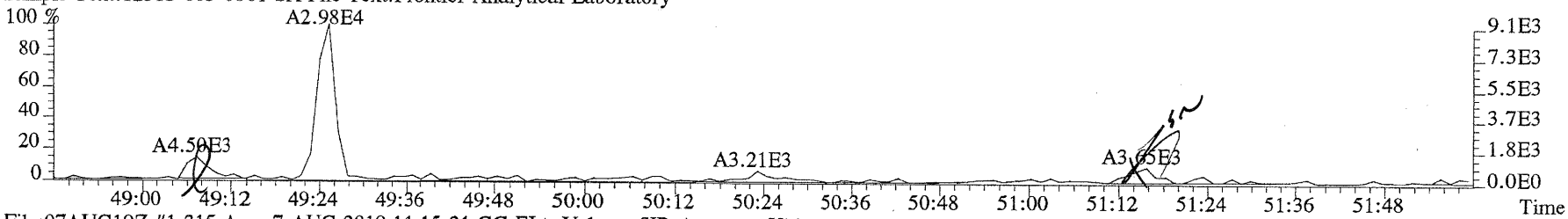
File:07AUG19Z #1-315 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



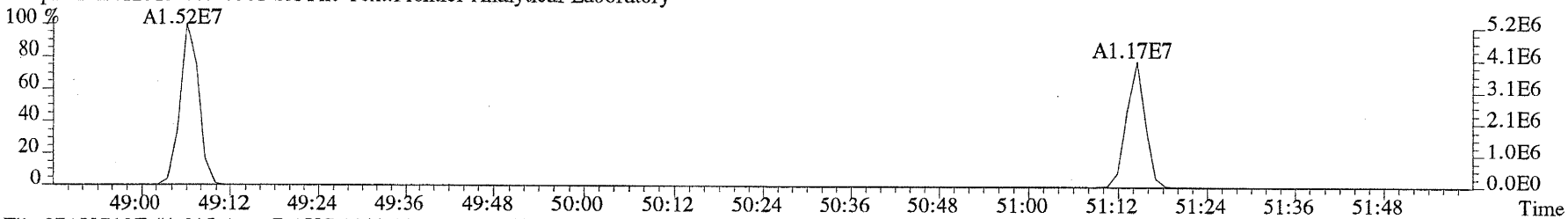
File:07AUG19Z #1-315 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



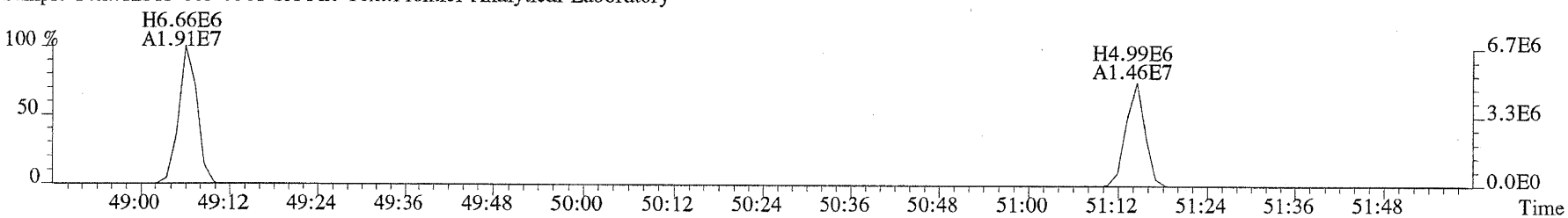
File:07AUG19Z #1-315 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



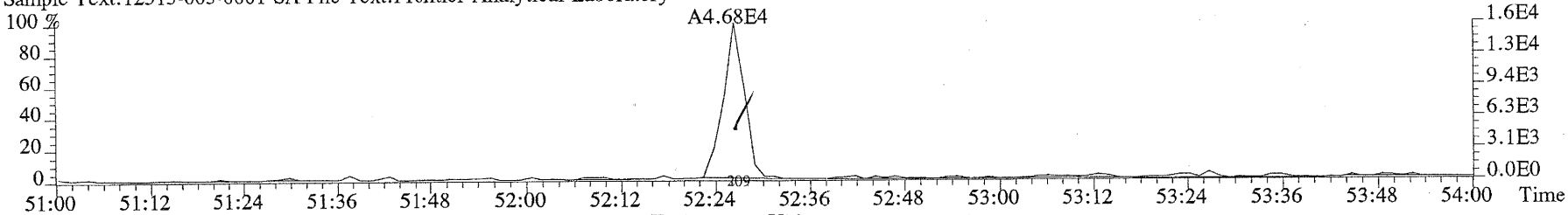
File:07AUG19Z #1-315 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



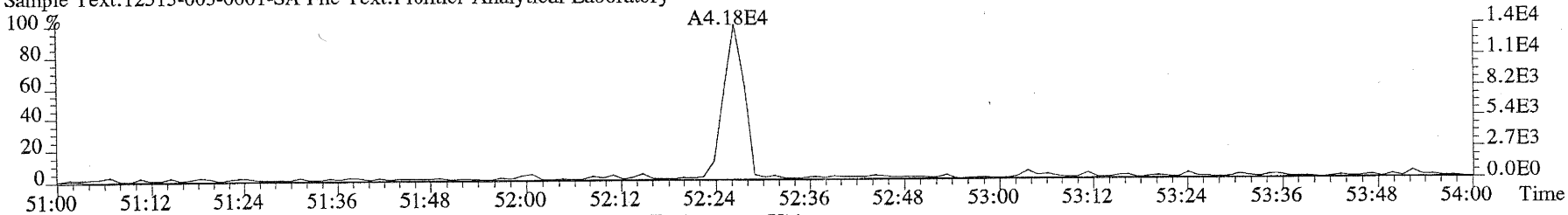
File:07AUG19Z #1-315 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



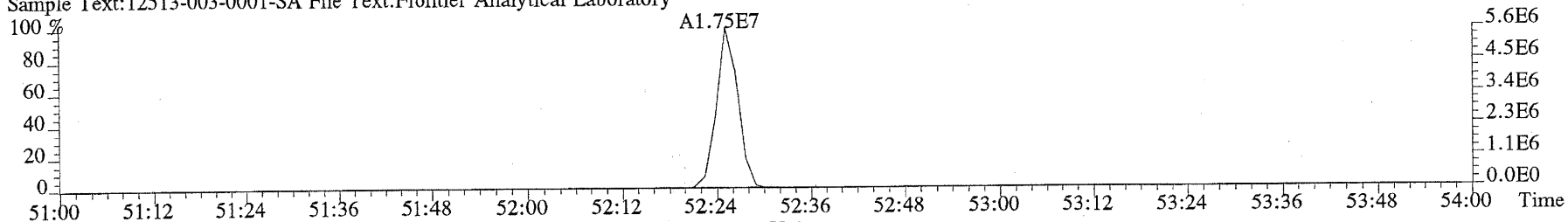
File:07AUG19Z #1-315 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



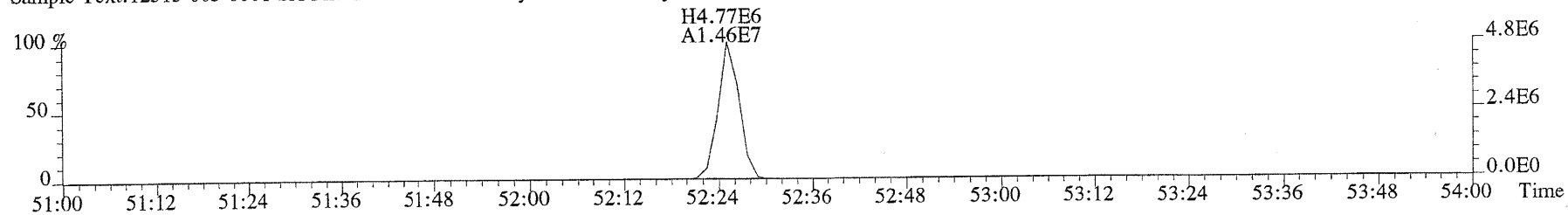
File:07AUG19Z #1-315 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-315 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-315 Acq: 7-AUG-2019 11:15:31 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-003-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12513-008-0001-SA Filename: 07AUG19Z Sam:10 Acquired: 7-AUG-19 15:09:14 ICal: DAILY209FAL4-8-7-19
Client ID: LDW-Y2-SC-ENR-CC-SSWI ConCal: ST080719Z1 EndCal: ST080719Z2
Results: 12513 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	6.78e+04	3.12 y	14:32	1.11	6.80	J	-	-	*	
13C-PCB-1	8.99e+07	3.28 y	14:31	0.91	8900					89.0
PCB-2	*	* n	NotFnd	1.13	*		1560	1100	2.21	
PCB-3	*	* n	NotFnd	1.15	*		1560	1100	2.39	
13C-PCB-3	9.22e+07	3.26 y	16:57	0.89	9430					94.3
PCB-4	1.44e+06	1.43 y	18:11	1.16	176		-	-	*	
PCB-10	1.92e+05	1.55 y	18:15	1.28	16.9	J	-	-	*	
13C-PCB-4	7.04e+07	1.59 y	18:10	0.65	9870					98.7
PCB-9	3.18e+05	1.47 y	19:52	1.40	25.7		-	-	*	
PCB-7	3.11e+05	1.58 y	19:54	1.36	25.7		-	-	*	
PCB-6	1.08e+06	1.57 y	20:30	1.38	87.8		-	-	*	
PCB-8	4.76e+06	1.45 y	20:53	1.34	401		-	-	*	
PCB-5	*	* n	NotFnd	1.34	*		880	8880	8.48	
PCB-14	1.08e+06	1.47 y	21:56	1.32	92.3		-	-	*	
PCB-11	*	* n	NotFnd	1.20	*		880	8880	9.41	
PCB-13	*	* n	NotFnd	1.18	*		880	8880	9.62	
PCB-12	*	* n	NotFnd	1.23	*		880	8880	9.20	
PCB-15	1.07e+06	1.49 y	23:44	1.08	92.9		-	-	*	
13C-PCB-15	1.07e+08	1.60 y	23:42	0.93	10400					104
PCB-19	8.71e+05	1.09 y	22:04	1.19	137		-	-	*	
PCB-30	*	* n	NotFnd	1.77	*		1840	504	2.27	
PCB-18	6.08e+06	1.05 y	23:37	1.18	959		-	-	*	
PCB-17	2.72e+06	1.09 y	23:47	1.29	391		-	-	*	
PCB-27	4.04e+05	0.97 y	24:18	1.74	43.3		-	-	*	
PCB-24	4.64e+05	1.18 y	24:19	1.64	52.5		-	-	*	
PCB-16	2.09e+06	1.08 y	24:47	1.36	286		-	-	*	
PCB-32	2.56e+06	1.05 y	24:49	1.53	311		-	-	*	
13C-PCB-19	5.38e+07	1.07 y	22:03	0.51	9610					96.1
13C-PCB-9	1.10e+08	1.59 y	19:51	-	113					
PCB-34	6.29e+04	1.09 y	25:36	1.14	6.38	J	-	-	*	
PCB-23	*	* n	NotFnd	1.35	*		1330	1170	2.87	
PCB-29	7.89e+04	1.12 y	25:53	1.30	6.96	J	-	-	*	
PCB-26	1.48e+06	1.01 y	26:06	1.24	137		-	-	*	
PCB-25	9.14e+05	1.04 y	26:15	1.22	85.8		-	-	*	
PCB-31	7.11e+06	1.02 y	26:35	1.28	641		-	-	*	
PCB-28	8.73e+06	1.06 y	26:40	1.42	709		-	-	*	
PCB-20	4.80e+06	1.06 y	27:17	1.18	469		-	-	*	Co-elute PCB 21/33
PCB-21	4.80e+06	1.06 y	27:17	1.18	469		-	-	*	Co-elute PCB 20/33
PCB-33	4.80e+06	1.06 y	27:17	1.18	469		-	-	*	Co-elute PCB 20/21
PCB-22	2.58e+06	1.07 y	27:41	1.23	241		-	-	*	
PCB-36	1.70e+06	1.13 y	28:18	1.18	166		-	-	*	
PCB-39	*	* n	NotFnd	1.17	*		1330	1170	3.33	
PCB-38	*	* n	NotFnd	1.17	*		1330	1170	3.32	
PCB-35	7.15e+04	1.02 y	30:00	1.03	7.96	J	-	-	*	
PCB-37	1.01e+06	1.11 y	30:21	1.09	108		-	-	*	
13C-PCB-37	8.69e+07	1.06 y	30:20	1.32	10300					103

PCB-54	3.65e+04	0.84	y	25:36	1.19	4.23	J	-	-	*	
PCB-50	3.15e+04	0.75	y	26:40	0.93	4.64	J	-	-	*	
PCB-53	9.29e+05	0.80	y	27:18	0.92	139		-	-	*	
PCB-51	3.05e+05	0.84	y	27:37	0.96	43.9		-	-	*	
PCB-45	8.32e+05	0.79	y	28:02	0.79	145		-	-	*	
PCB-46	3.12e+05	0.80	y	28:30	0.75	57.7		-	-	*	
PCB-52	4.00e+06	0.81	y	28:55	0.93	592		-	-	*	Co-elute PCB 69
PCB-69	4.00e+06	0.81	y	28:55	0.93	592		-	-	*	Co-elute PCB 52
PCB-73	9.85e+04	0.74	y	29:02	1.15	11.9	J	-	-	*	
PCB-43	2.72e+06	0.80	y	29:13	0.81	464		-	-	*	Co-elute PCB 49
PCB-49	2.72e+06	0.80	y	29:13	0.81	464		-	-	*	Co-elute PCB 43
PCB-47	1.00e+06	0.80	y	29:26	0.86	161		-	-	*	
PCB-48	1.04e+06	0.80	y	29:31	1.04	138		-	-	*	Co-elute PCB 75
PCB-75	1.04e+06	0.80	y	29:31	1.04	138		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.05	*		1160	1560	3.23	
PCB-62	*	*	n	NotFnd	1.09	*		1160	1560	3.11	
PCB-44	2.45e+06	0.80	y	30:10	0.69	492		-	-	*	
PCB-42	1.34e+06	0.78	y	30:23	0.90	205		-	-	*	Co-elute PCB 59
PCB-59	1.34e+06	0.78	y	30:23	0.90	205		-	-	*	Co-elute PCB 42
PCB-72	3.02e+06	0.80	y	30:57	0.96	434		-	-	*	Co-elute PCB 41/71/64
PCB-41	3.02e+06	0.80	y	30:57	0.96	434		-	-	*	Co-elute PCB 72/71/64
PCB-71	3.02e+06	0.80	y	30:57	0.96	434		-	-	*	Co-elute PCB 72/41/64
PCB-64	3.02e+06	0.80	y	30:57	0.96	434		-	-	*	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	1.11	*		1160	1560	3.05	
PCB-40	4.44e+05	0.85	y	31:22	0.60	102		-	-	*	
PCB-57	*	*	n	NotFnd	1.00	*		1160	1560	3.39	
PCB-67	9.82e+04	0.70	y	32:00	0.94	14.4	J	-	-	*	
PCB-58	*	*	n	NotFnd	1.06	*		1160	1560	3.21	
PCB-63	1.05e+05	0.79	y	32:16	1.00	14.5	J	-	-	*	
PCB-74	1.14e+06	0.86	y	32:34	0.97	162		-	-	*	
PCB-61	2.47e+06	0.80	y	32:46	0.93	367		-	-	*	Co-elute PCB 70
PCB-70	2.47e+06	0.80	y	32:46	0.93	367		-	-	*	Co-elute PCB 61
PCB-76	2.38e+06	0.77	y	32:58	1.02	321		-	-	*	Co-elute PCB 66
PCB-66	2.38e+06	0.77	y	32:58	1.02	321		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.20	*		1160	1560	2.82	
PCB-55	1.68e+05	0.80	y	33:29	1.03	22.6		-	-	*	
13C-PCB-54	7.25e+07	0.81	y	25:34	1.26	9050					90.5
PCB-104	4.01e+06	1.52	y	30:01	1.08	583		-	-	*	
PCB-96	3.40e+04	1.61	y	31:12	0.98	5.39	J	-	-	*	
PCB-103	4.74e+04	1.37	y	31:44	0.77	9.58	J	-	-	*	
PCB-100	3.31e+04	1.44	y	32:04	0.79	6.58	J	-	-	*	
PCB-94	*	*	n	NotFnd	0.64	*		296	292	1.40	
PCB-98	*	*	n	NotFnd	0.65	*		296	292	1.37	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.65	*		296	292	1.37	Co-elute PCB 98
PCB-95	1.64e+06	1.61	y	33:01	0.69	373		-	-	*	
PCB-93	*	*	n	NotFnd	0.69	*		296	292	1.30	
PCB-88	*	*	n	NotFnd	0.72	*		296	292	1.23	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.72	*		296	292	1.23	Co-elute PCB 88
PCB-121	5.92e+06	1.59	y	33:29	0.87	1060		-	-	*	
13C-PCB-104	6.40e+07	1.58	y	30:00	1.00	9960					99.6
13C-PCB-28	1.23e+08	1.05	y	26:39	1.67	11600					116
13C-PCB-52	6.39e+07	0.81	y	28:54	-	130					

PCB-56	1.40e+06	0.78	y	33:56	1.02	230		-	-	*	Co-elute PCB 60
PCB-60	1.40e+06	0.78	y	33:56	1.02	230		-	-	*	Co-elute PCB 56
PCB-79	3.24e+04	0.77	y	34:57	1.16	4.70	J	-	-	*	
PCB-78	3.71e+06	0.77	y	35:37	1.11	561		-	-	*	
PCB-81	9.04e+04	0.79	y	36:08	1.17	13.2	J	-	-	*	
13C-PCB-81	5.88e+07	0.80	y	36:05	1.41	9640					96.4
PCB-77	1.38e+05	0.88	y	36:40	1.00	23.0		-	-	*	
13C-PCB-77	6.01e+07	0.80	y	36:39	1.45	9520					95.2
PCB-155	5.85e+06	1.26	y	34:10	1.01	1030		-	-	*	
PCB-150	*	*	n	NotFnd	0.98	*		420	360	1.44	
PCB-152	*	*	n	NotFnd	0.87	*		420	360	1.62	
PCB-145	*	*	n	NotFnd	0.96	*		420	360	1.46	
PCB-136	2.70e+05	1.34	y	36:33	0.94	51.1		-	-	*	
PCB-148	*	*	n	NotFnd	0.63	*		420	360	2.22	
PCB-154	4.62e+04	1.06	y	37:07	0.79	10.5	J	-	-	*	
13C-PCB-155	5.63e+07	1.30	y	34:09	1.27	10300					103
13C-PCB-111	5.16e+07	1.60	y	36:14	1.24	9620					96.2
13C-PCB-101	4.34e+07	1.63	y	34:35	-	116					
PCB-84	7.79e+05	1.69	y	34:15	0.83	181		-	-	*	Co-elute PCB 92
PCB-92	7.79e+05	1.69	y	34:15	0.83	181		-	-	*	Co-elute PCB 84
PCB-89	3.84e+04	1.42	y	34:25	0.81	9.07	J	-	-	*	
PCB-90	1.67e+06	1.68	y	34:37	0.91	355		-	-	*	Co-elute PCB 101
PCB-101	1.67e+06	1.68	y	34:37	0.91	355		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.04	*		1140	870	4.19	
PCB-99	7.40e+05	1.54	y	34:56	1.00	142		-	-	*	
PCB-119	6.80e+04	1.66	y	35:22	1.15	11.3	J	-	-	*	
PCB-83	7.36e+04	1.55	y	35:31	0.91	15.6	J	-	-	*	Co-elute PCB 112
PCB-112	7.36e+04	1.55	y	35:31	0.91	15.6	J	-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.09	*		1140	870	4.03	
PCB-97	3.54e+05	1.63	y	35:51	0.75	91.1		-	-	*	
PCB-86	*	*	n	NotFnd	0.83	*		1140	870	5.28	
PCB-125	5.37e+05	1.52	y	36:08	0.99	104		-	-	*	Co-elute PCB 87/117
PCB-87	5.37e+05	1.52	y	36:08	0.99	104		-	-	*	Co-elute PCB 125/117
PCB-117	5.37e+05	1.52	y	36:08	0.99	104		-	-	*	Co-elute PCB 125/87
PCB-111	4.01e+04	1.35	y	36:15	1.14	6.75	J	-	-	*	Co-elute PCB 115
PCB-115	4.01e+04	1.35	y	36:15	1.14	6.75	J	-	-	*	Co-elute PCB 111
PCB-85	2.11e+05	1.52	y	36:21	0.99	41.0		-	-	*	Co-elute PCB 116
PCB-116	2.11e+05	1.52	y	36:21	0.99	41.0		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.18	*		1140	870	3.70	
PCB-110	1.60e+06	1.58	y	36:44	1.13	273		-	-	*	
PCB-82	1.06e+05	1.77	y	37:21	0.66	30.8		-	-	*	
PCB-124	5.65e+04	1.33	y	38:01	1.13	9.63	J	-	-	*	
PCB-108	2.69e+04	1.72	y	38:16	1.08	4.79	J	-	-	*	Co-elute PCB 107
PCB-107	2.69e+04	1.72	y	38:16	1.08	4.79	J	-	-	*	Co-elute PCB 108
PCB-123	2.69e+04	1.72	y	38:16	1.02	5.25	J	-	-	*	
13C-PCB-123	5.04e+07	1.57	y	38:16	1.21	10500					105
PCB-118	9.31e+05	1.39	y	38:28	1.04	163		-	-	*	Co-elute PCB 106
PCB-106	9.31e+05	1.39	y	38:28	1.04	163		-	-	*	Co-elute PCB 118
13C-PCB-118	5.50e+07	1.61	y	38:26	1.36	10300					103
PCB-114	3.11e+04	1.53	y	39:06	1.13	5.24	J	-	-	*	
13C-PCB-114	5.25e+07	1.61	y	39:04	1.26	10500					105
PCB-122	*	*	n	NotFnd	1.04	*		720	676	2.92	
PCB-105	3.14e+05	1.60	y	39:53	1.12	55.6		-	-	*	
13C-PCB-105	5.02e+07	1.59	y	39:53	1.26	10100					101

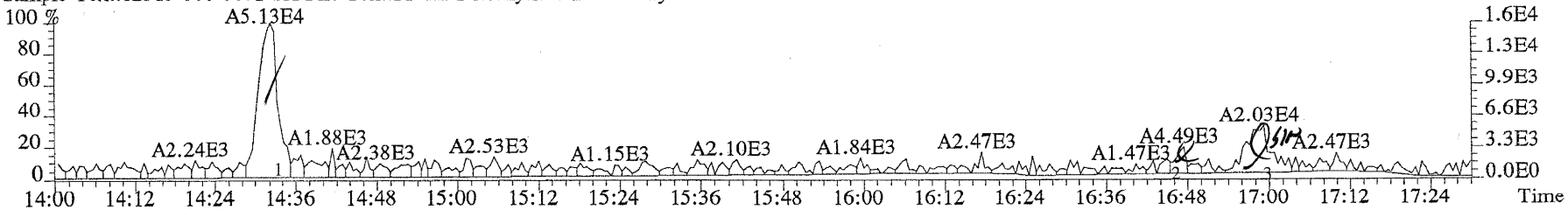
PCB-127	*	*	n	NotFnd	1.03	*		720	676	2.96	
PCB-126	*	*	n	NotFnd	1.08	*		720	676	3.36	
13C-PCB-126	4.58e+07	1.62	y	42:00	1.17	9870					98.7
PCB-151	3.00e+05	1.19	y	37:43	0.88	79.7		-	-	*	
PCB-135	1.60e+05	1.26	y	37:56	0.83	44.7		-	-	*	
PCB-144	7.09e+04	1.43	y	38:01	1.01	16.3	J	-	-	*	
PCB-147	2.87e+04	1.32	y	38:10	0.93	7.14	J	-	-	*	
PCB-139	1.04e+06	1.29	y	38:24	0.99	244		-	-	*	Co-elute PCB 149
PCB-149	1.04e+06	1.29	y	38:24	0.99	244		-	-	*	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.93	*		864	572	3.87	
PCB-143	6.38e+04	1.24	y	39:01	0.77	19.3	J	-	-	*	Co-elute PCB 134
PCB-134	6.38e+04	1.24	y	39:01	0.77	19.3	J	-	-	*	Co-elute PCB 143
PCB-131	2.97e+04	1.19	y	39:17	0.78	8.88	J	-	-	*	Co-elute PCB 133
PCB-133	2.97e+04	1.19	y	39:17	0.78	8.88	J	-	-	*	Co-elute PCB 131
PCB-142	1.06e+07	1.25	y	39:25	0.77	3210		-	-	*	
PCB-165	2.44e+05	1.36	y	39:38	1.04	54.6		-	-	*	Co-elute PCB 146
PCB-146	2.44e+05	1.36	y	39:38	1.04	54.6		-	-	*	Co-elute PCB 165
PCB-161	3.10e+05	1.27	y	39:53	0.95	75.8		-	-	*	Co-elute PCB 132
PCB-132	3.10e+05	1.27	y	39:53	0.95	75.8		-	-	*	Co-elute PCB 161
PCB-153	1.07e+06	1.31	y	40:02	1.08	231		-	-	*	
PCB-168	*	*	n	NotFnd	1.17	*		864	572	3.07	
PCB-141	1.46e+05	1.29	y	40:44	0.85	40.0		-	-	*	
PCB-137	3.29e+04	1.20	y	41:06	0.77	9.90	J	-	-	*	
PCB-130	4.85e+04	1.30	y	41:11	0.82	13.8	J	-	-	*	
PCB-138	8.50e+05	1.23	y	41:32	1.04	189		-	-	*	Co-elute PCB 163/164
PCB-163	8.50e+05	1.23	y	41:32	1.04	189		-	-	*	Co-elute PCB 138/164
PCB-164	8.50e+05	1.23	y	41:32	1.04	189		-	-	*	Co-elute PCB 138/163
PCB-158	9.95e+04	1.22	y	41:45	1.16	20.0		-	-	*	Co-elute PCB 160
PCB-160	9.95e+04	1.22	y	41:45	1.16	20.0		-	-	*	Co-elute PCB 158
PCB-129	2.76e+04	1.24	y	42:00	0.73	8.82	J	-	-	*	
PCB-166	*	*	n	NotFnd	1.09	*		864	572	3.28	
PCB-159	3.16e+04	1.36	y	42:44	1.20	6.09	J	-	-	*	
PCB-128	9.67e+04	1.27	y	43:01	0.94	23.8		-	-	*	Co-elute PCB 162
PCB-162	9.67e+04	1.27	y	43:01	0.94	23.8		-	-	*	Co-elute PCB 128
PCB-167	3.07e+04	1.11	y	43:22	1.07	6.65	J	-	-	*	
13C-PCB-167	4.31e+07	1.29	y	43:21	1.16	9390					93.9
PCB-156	6.21e+04	1.12	y	44:35	1.14	13.7	J	-	-	*	
13C-PCB-156	4.00e+07	1.30	y	44:35	1.16	8700					87.0
PCB-157	*	*	n	NotFnd	1.08	*		864	572	3.56	
13C-PCB-157	4.40e+07	1.33	y	44:50	1.17	9510					95.1
PCB-169	*	*	n	NotFnd	1.05	*		864	572	2.79	
13C-PCB-169	4.51e+07	1.28	y	46:43	1.16	9800					98.0

FAL ID: 12513-008-0001-SA Filename: 07AUG19Z Sam:10 Acquired: 7-AUG-19 15:09:14 ICal: DAILY209FAL4-8-7-19
Client ID: LDW-Y2-SC-ENR-CC-SSWI ConCal: ST080719Z1 EndCal: ST080719Z2
Results: 12513 GC Column: DB1MS Amount: 1.000

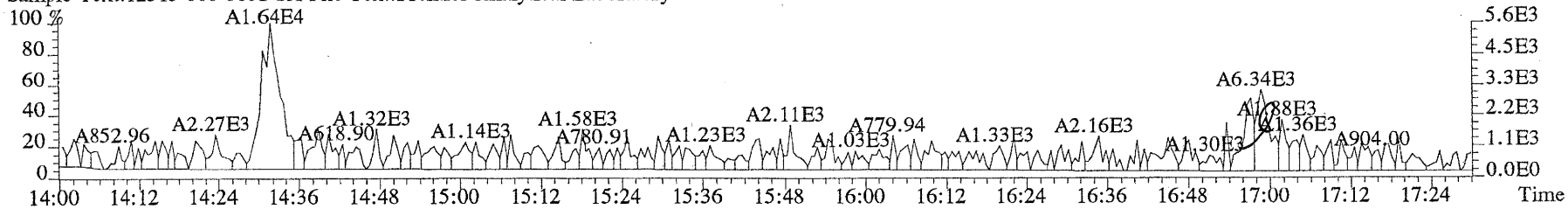
PCB-188	*	*	n	NotFnd	1.09	*		724	388	2.44	
13C-PCB-188	4.38e+07	1.05	y	39:38	1.15	9620					96.2
PCB-184	6.79e+06	1.04	y	40:05	1.21	1260		-	-	*	
PCB-179	1.25e+05	1.03	y	40:49	1.15	24.4		-	-	*	
PCB-176	3.89e+04	1.08	y	41:16	1.11	7.86	J	-	-	*	
PCB-186	*	*	n	NotFnd	1.12	*		724	388	2.15	
PCB-178	3.86e+04	1.12	y	42:17	0.77	11.2	J	-	-	*	
PCB-175	*	*	n	NotFnd	0.80	*		724	388	3.02	
PCB-187	2.02e+05	1.17	y	42:46	0.89	51.1		-	-	*	Co-elute PCB 182
PCB-182	2.02e+05	1.17	y	42:46	0.89	51.1		-	-	*	Co-elute PCB 187
PCB-183	1.08e+05	1.15	y	43:06	0.86	28.1		-	-	*	
PCB-185	*	*	n	NotFnd	0.79	*		724	388	3.06	
PCB-174	1.35e+05	1.20	y	44:03	0.81	37.2		-	-	*	
PCB-181	*	*	n	NotFnd	0.78	*		724	388	3.11	
PCB-177	7.02e+04	0.97	y	44:18	0.73	21.6		-	-	*	
PCB-171	3.02e+04	1.15	y	44:36	0.80	8.43	J	-	-	*	
PCB-173	*	*	n	NotFnd	0.70	*		724	388	3.45	
PCB-172	1.04e+05	1.03	y	45:21	0.75	31.1		-	-	*	
PCB-192	4.07e+06	1.02	y	45:34	0.99	922		-	-	*	
PCB-180	2.25e+05	1.16	y	45:44	0.77	65.2		-	-	*	
PCB-193	*	*	n	NotFnd	1.04	*		724	388	2.32	
PCB-191	*	*	n	NotFnd	1.04	*		724	388	2.33	
PCB-170	7.51e+04	1.04	y	47:03	0.78	21.6		-	-	*	
PCB-190	*	*	n	NotFnd	1.05	*		724	388	2.29	
PCB-189	*	*	n	NotFnd	1.12	*		724	388	1.95	
13C-PCB-189	4.57e+07	1.07	y	48:22	1.01	11400					114
PCB-202	*	*	n	NotFnd	0.98	*		228	520	2.22	
PCB-201	*	*	n	NotFnd	1.07	*		228	520	2.04	
PCB-204	9.44e+06	0.94	y	45:21	1.04	2590		-	-	*	
PCB-197	*	*	n	NotFnd	1.10	*		228	520	1.98	
PCB-200	*	*	n	NotFnd	1.06	*		228	520	2.07	
PCB-198	*	*	n	NotFnd	0.82	*		228	520	2.67	
PCB-199	3.19e+04	0.87	y	47:39	0.77	11.8	J	-	-	*	
PCB-203	4.59e+04	0.88	y	47:54	0.85	15.4	J	-	-	*	Co-elute PCB 196
PCB-196	4.59e+04	0.88	y	47:54	0.85	15.4	J	-	-	*	Co-elute PCB 203
13C-PCB-202	3.50e+07	0.91	y	44:45	0.96	9240					92.4
13C-PCB-178	2.97e+07	1.05	y	42:17	0.74	10100					101
13C-PCB-138	3.96e+07	1.29	y	41:30	-	109					
PCB-195	1.75e+04	0.76	y	49:00	0.77	4.15	J	-	-	*	
PCB-194	4.21e+04	0.92	y	49:48	0.82	9.36	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.05	*		292	960	1.48	
13C-PCB-205	5.49e+07	0.91	y	50:02	1.30	9460					94.6
PCB-208	*	*	n	NotFnd	1.00	*		480	492	1.53	
13C-PCB-208	4.98e+07	0.80	y	49:06	1.34	8340					83.4
PCB-207	5.39e+04	1.47	y	49:25	1.17	10.7	J	-	-	*	
PCB-206	1.37e+04	1.31	y	51:15	1.05	3.53	J	-	-	*	
13C-PCB-206	3.69e+07	0.80	y	51:14	0.95	8740					87.4
PCB-209	5.85e+04	1.26	y	52:26	1.11	12.0	J	-	-	*	
13C-PCB-209	4.40e+07	1.20	y	52:25	1.24	7990					79.9
13C-PCB-194	4.45e+07	0.91	y	49:47	-	138					

Analyst: J Date: 9/27/19

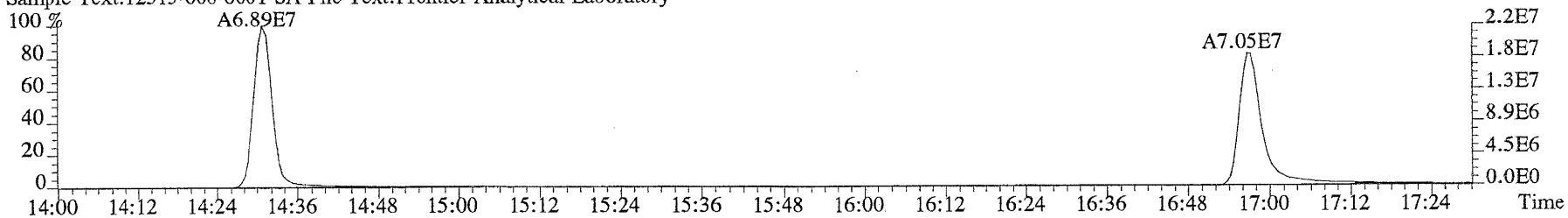
File:07AUG19Z #1-783 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



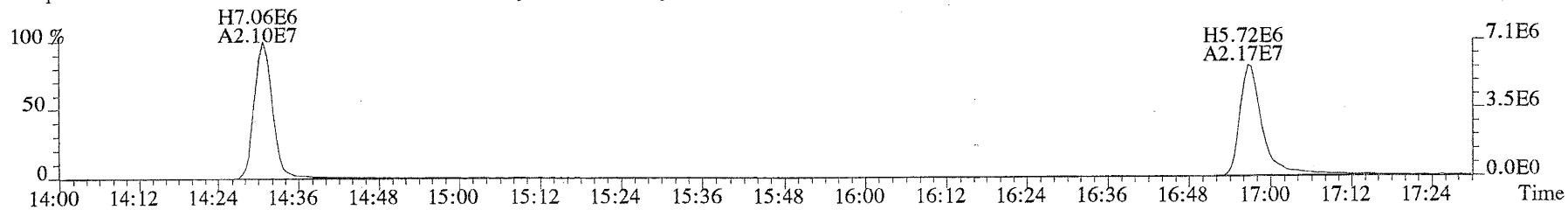
File:07AUG19Z #1-783 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



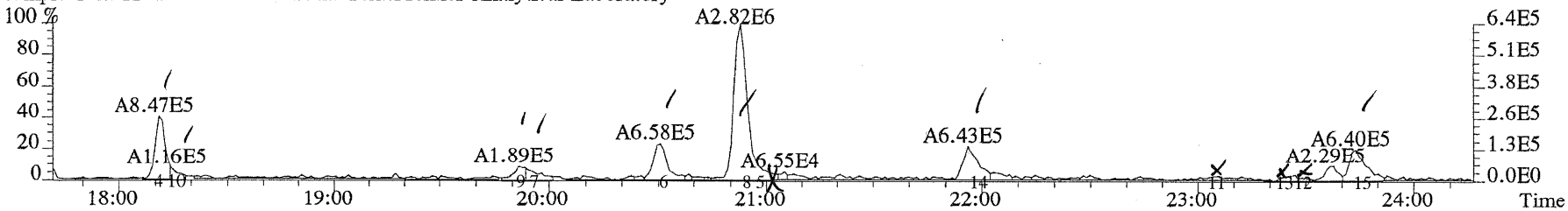
File:07AUG19Z #1-783 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



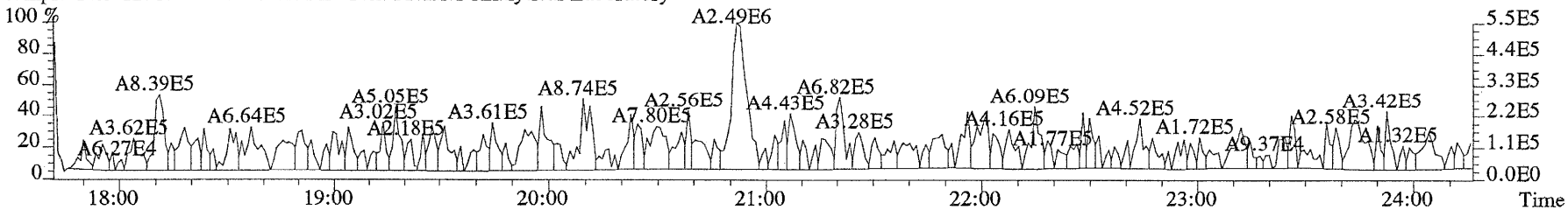
File:07AUG19Z #1-783 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



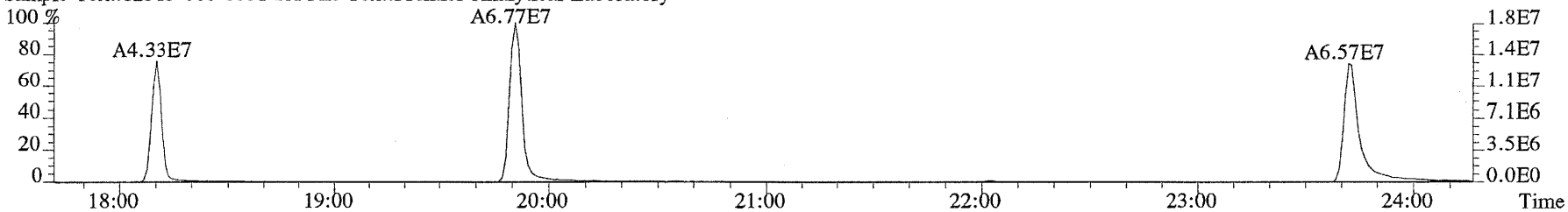
File:07AUG19Z #1-521 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



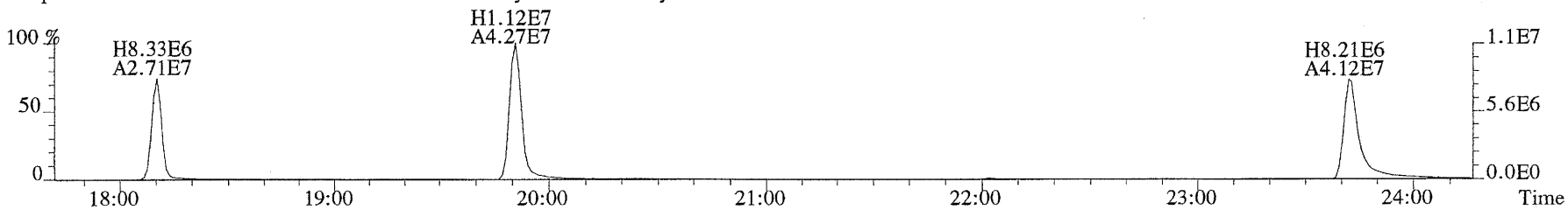
File:07AUG19Z #1-521 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



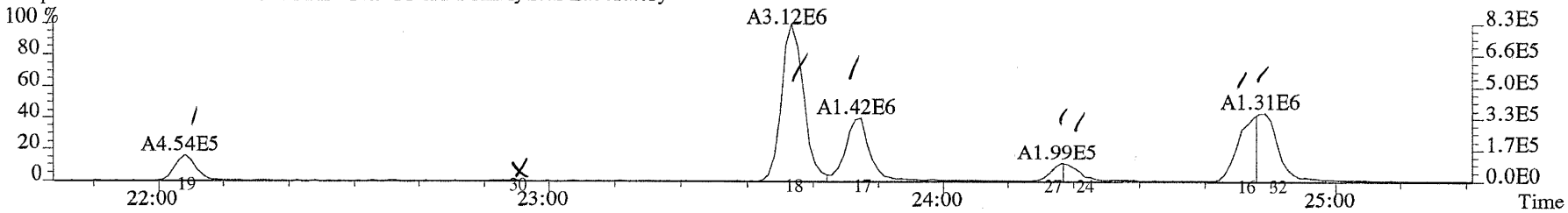
File:07AUG19Z #1-521 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



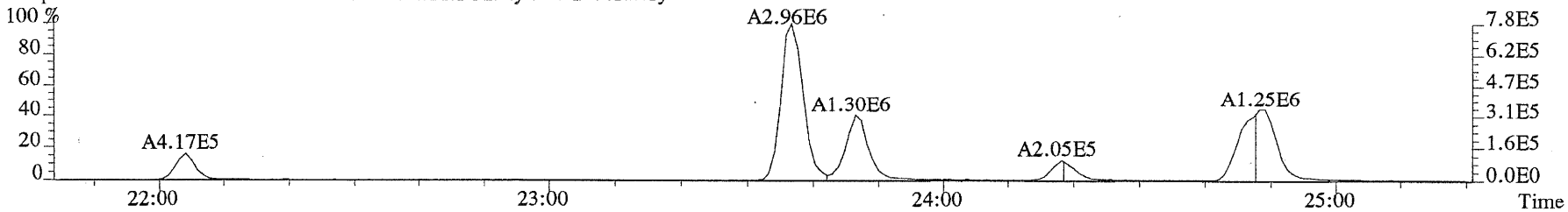
File:07AUG19Z #1-521 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



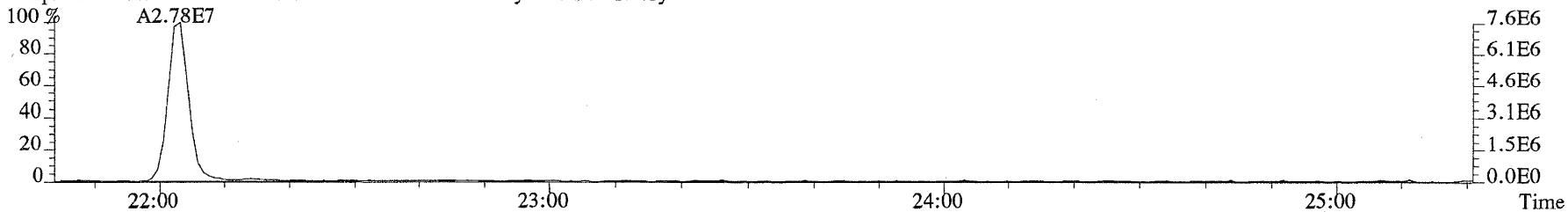
File:07AUG19Z #1-521 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



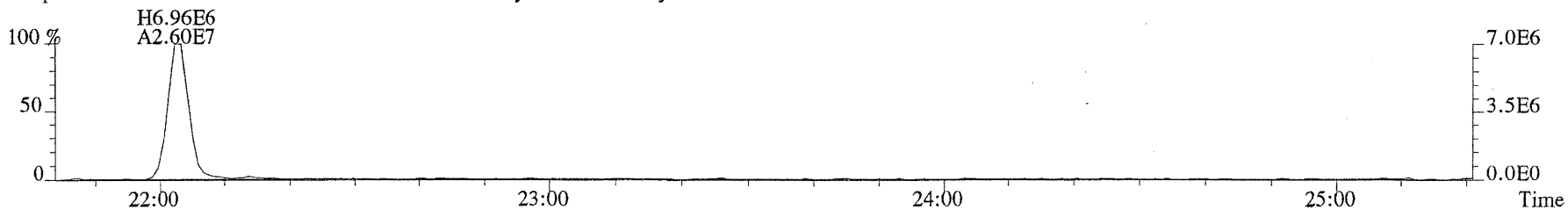
File:07AUG19Z #1-521 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



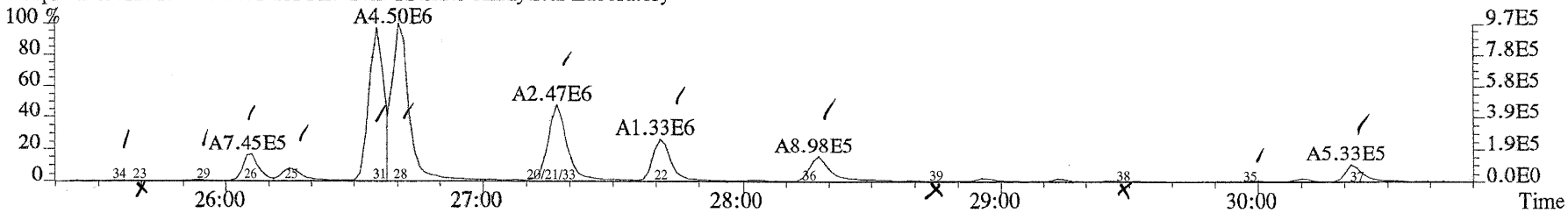
File:07AUG19Z #1-521 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



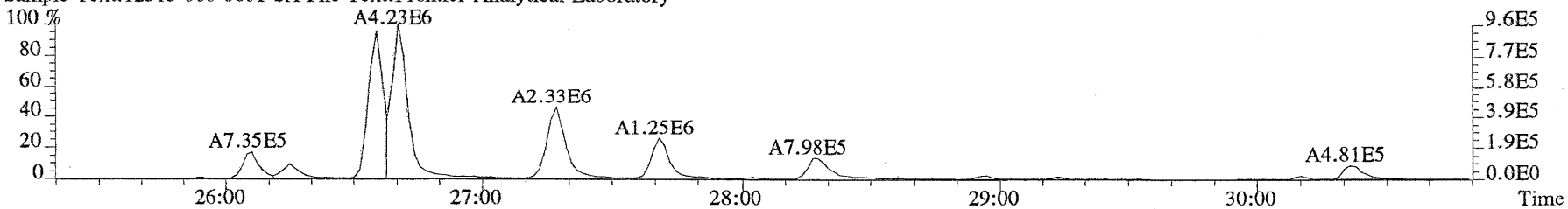
File:07AUG19Z #1-521 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



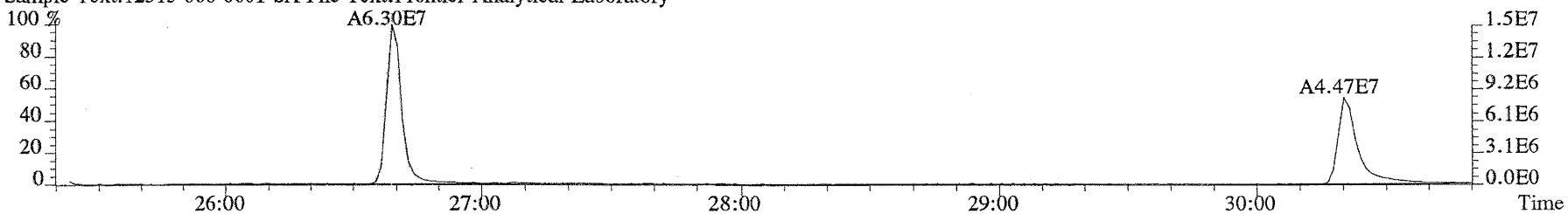
File:07AUG19Z #1-401 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



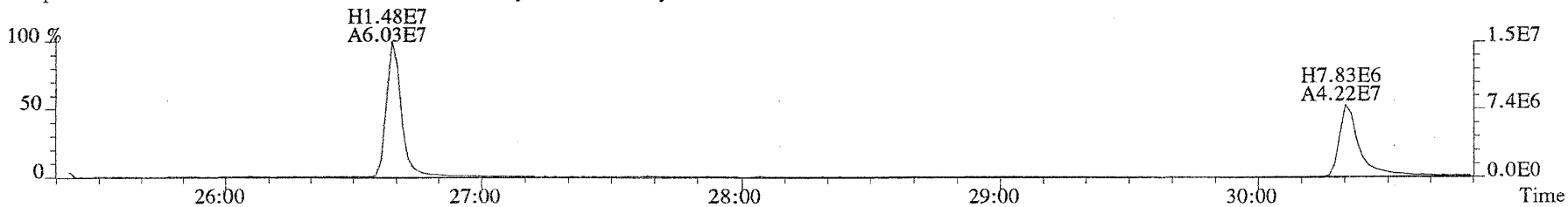
File:07AUG19Z #1-401 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



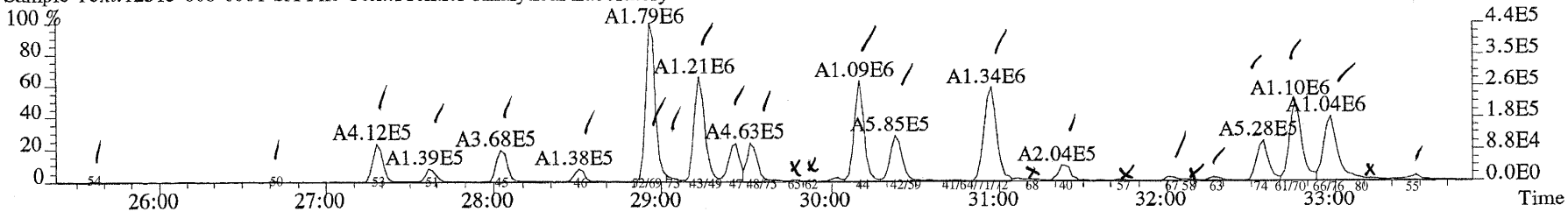
File:07AUG19Z #1-401 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-401 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-401 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



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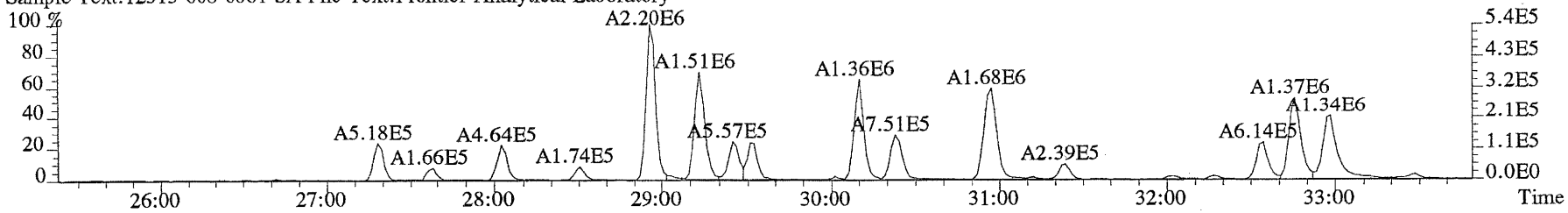
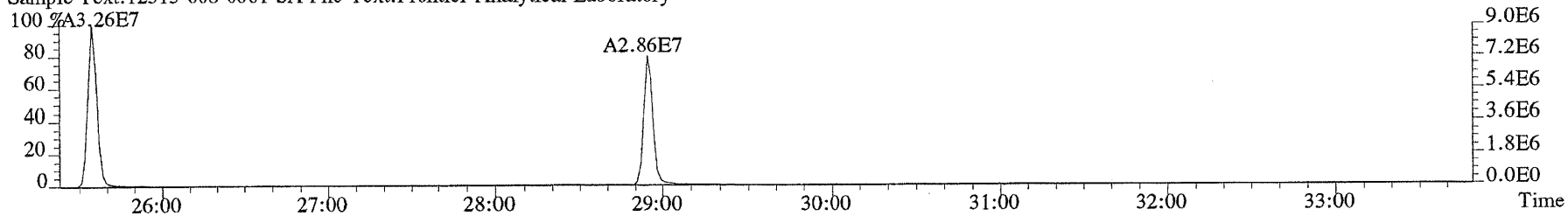
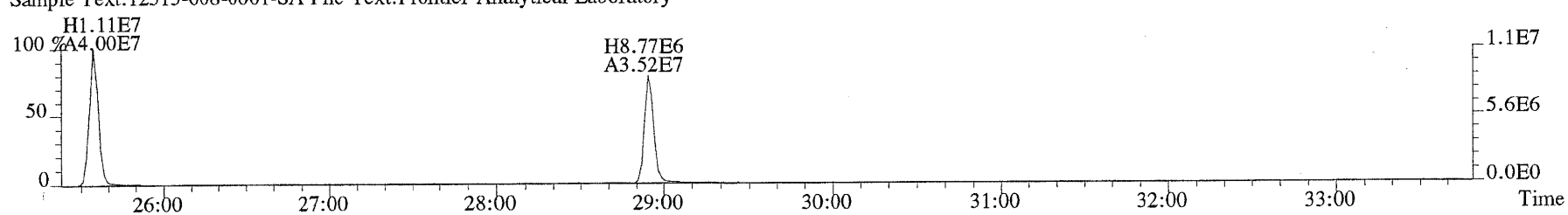
291.9194 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



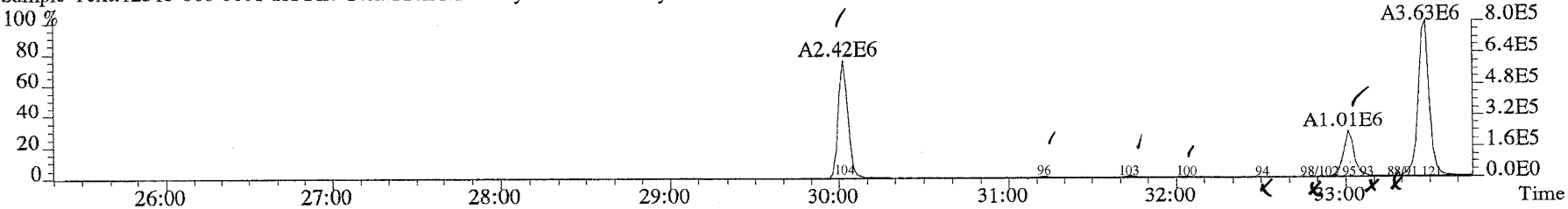
File:07AUG19Z #1-401 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



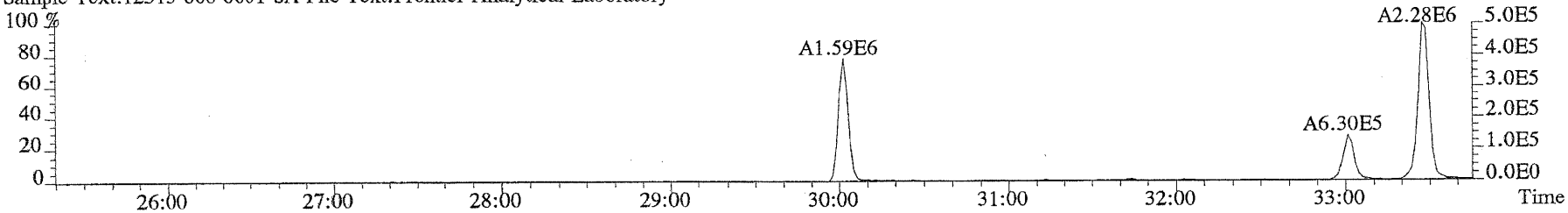
File:07AUG19Z #1-401 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



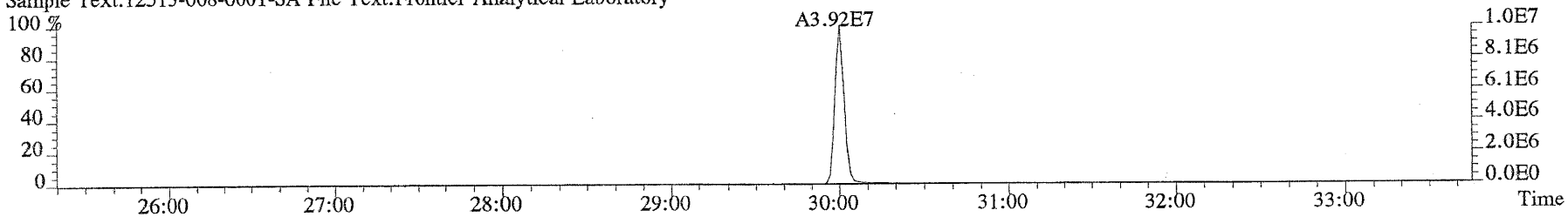
File:07AUG19Z #1-401 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



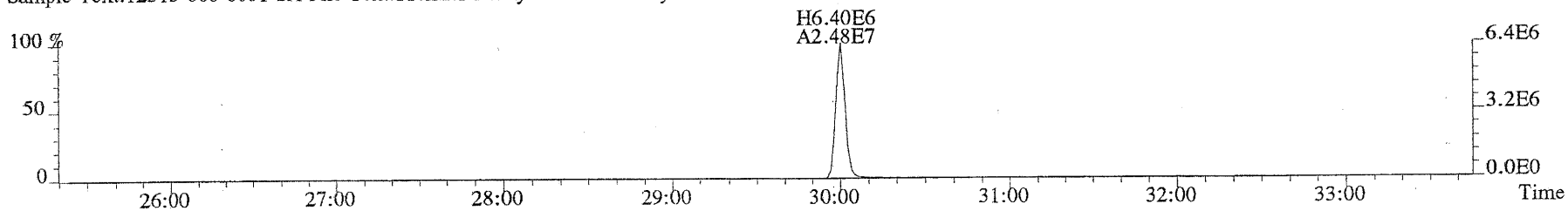
File:07AUG19Z #1-401 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



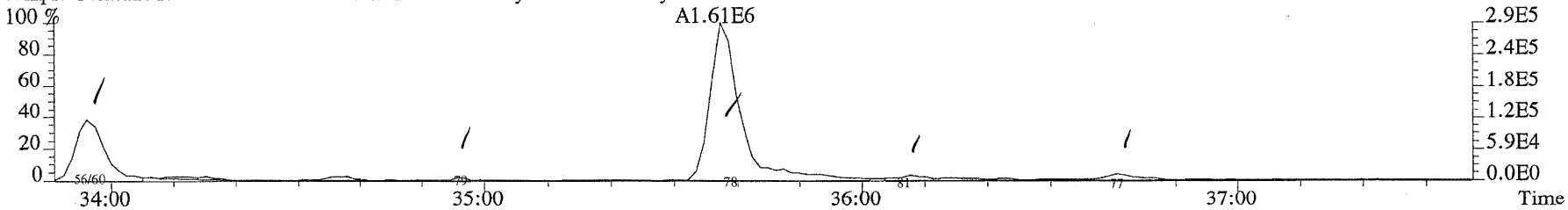
File:07AUG19Z #1-401 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



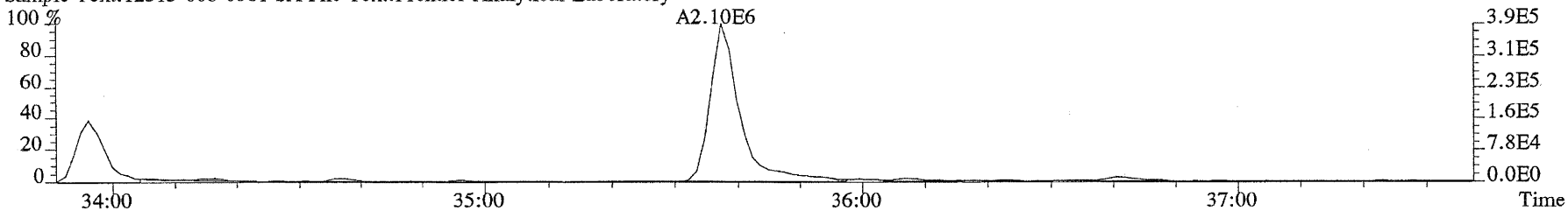
File:07AUG19Z #1-401 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



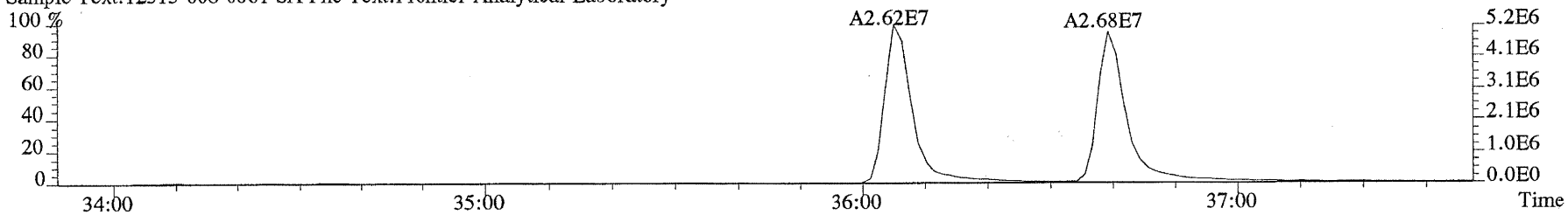
File:07AUG19Z #1-180 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



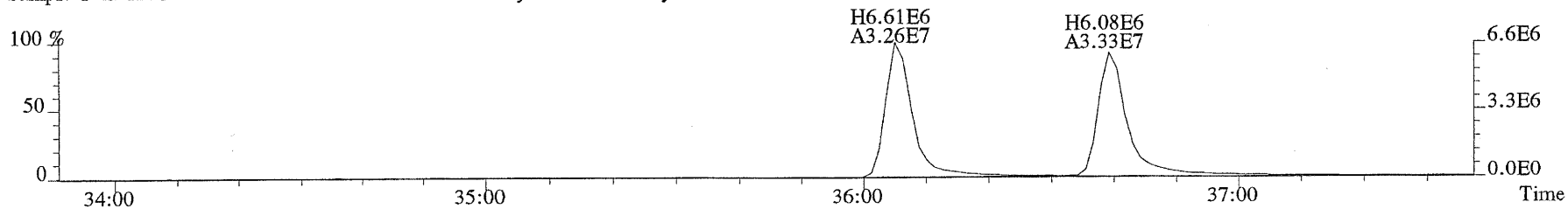
File:07AUG19Z #1-180 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:4 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



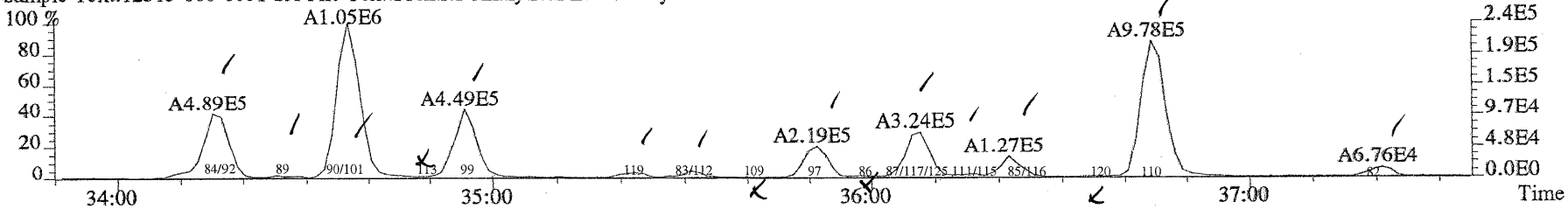
File:07AUG19Z #1-180 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



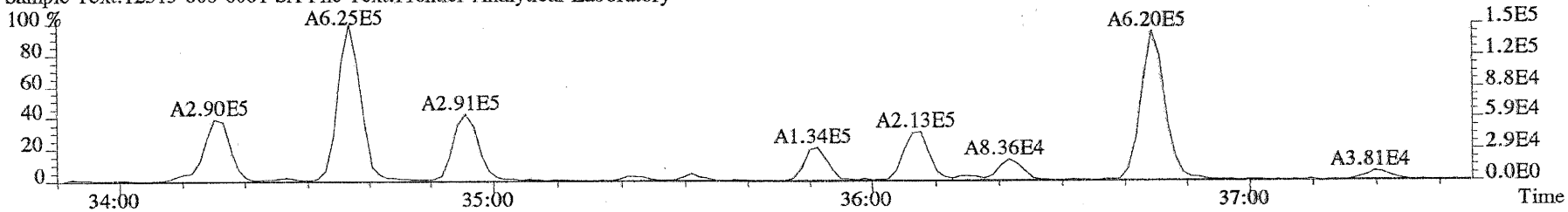
File:07AUG19Z #1-180 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



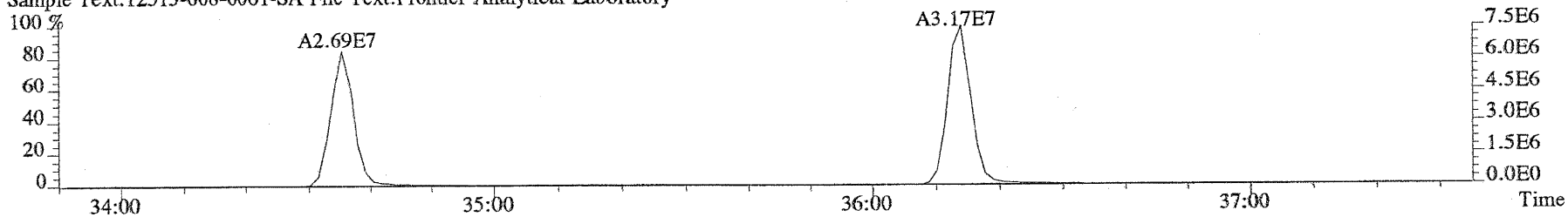
File:07AUG19Z #1-180 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



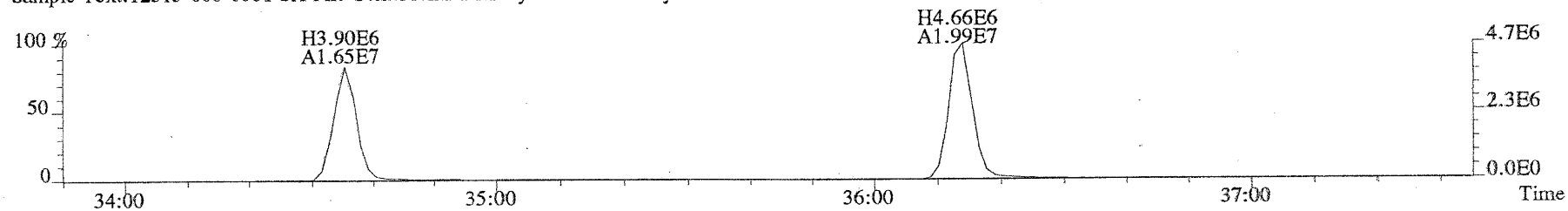
File:07AUG19Z #1-180 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



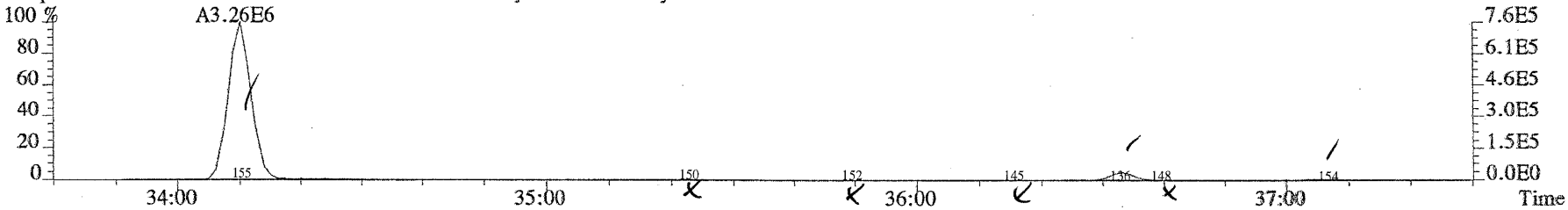
File:07AUG19Z #1-180 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



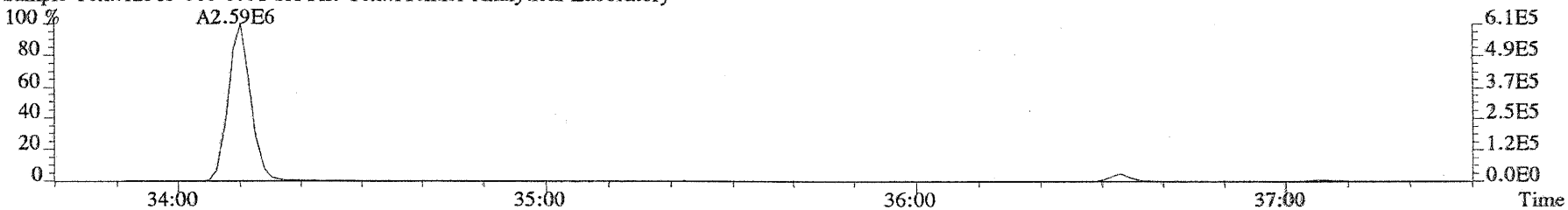
File:07AUG19Z #1-180 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



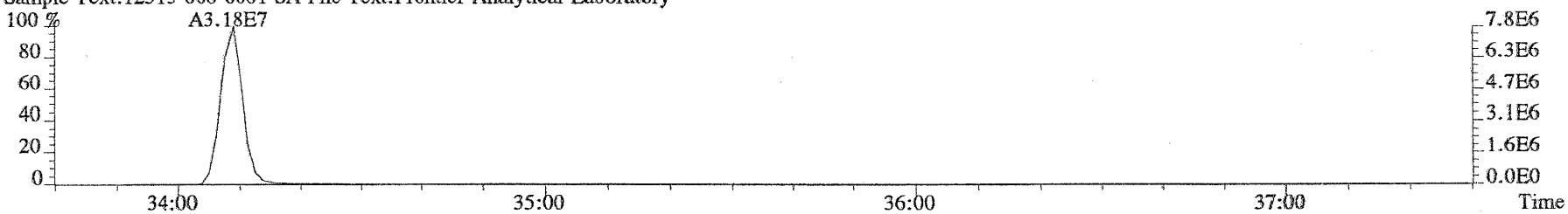
File:07AUG19Z #1-180 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



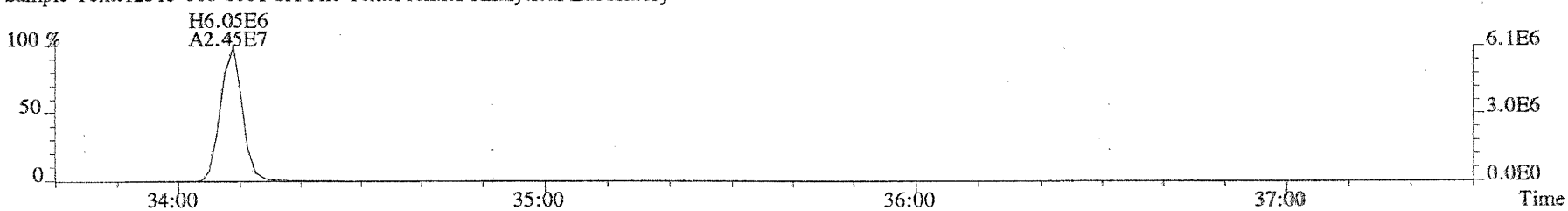
File:07AUG19Z #1-180 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



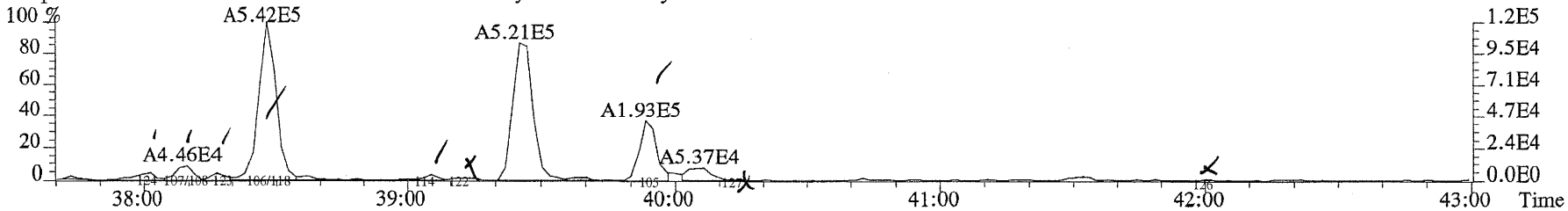
File:07AUG19Z #1-180 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



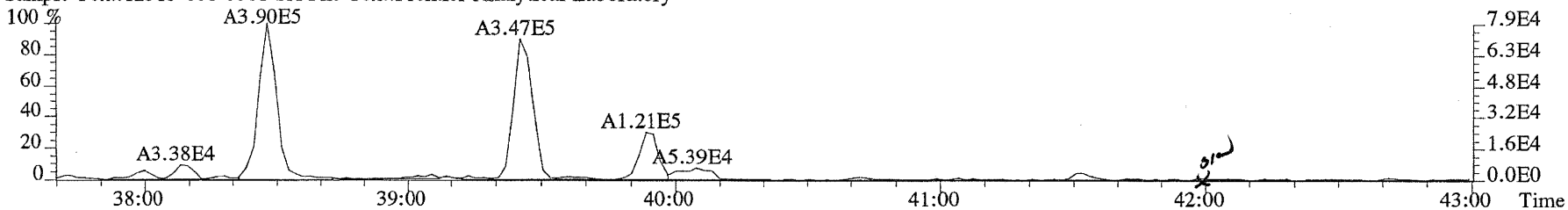
File:07AUG19Z #1-180 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



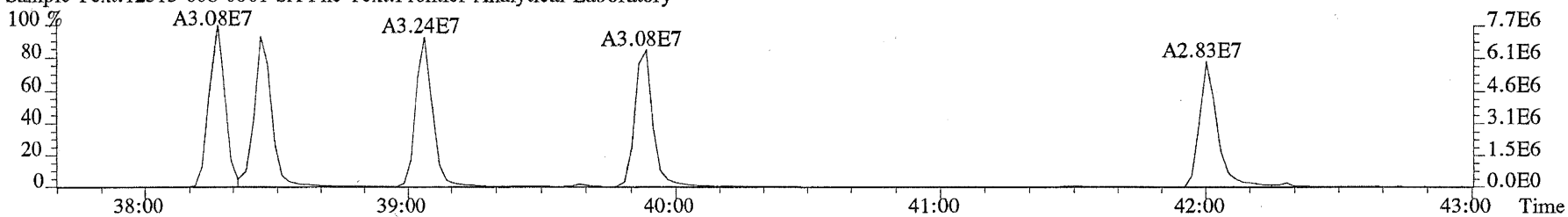
File:07AUG19Z #1-406 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-406 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-406 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



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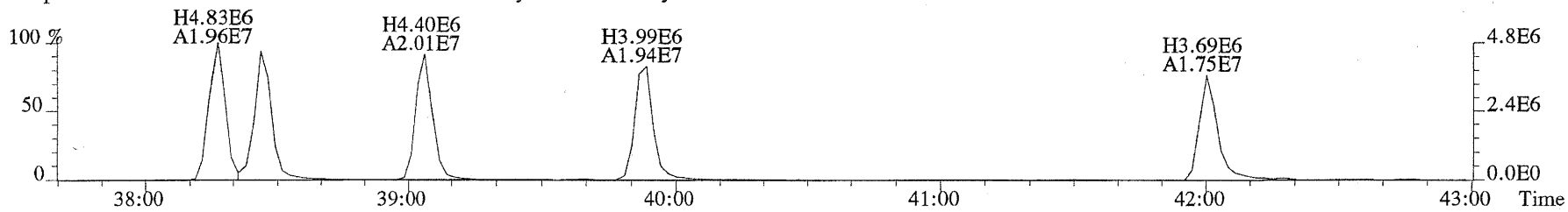
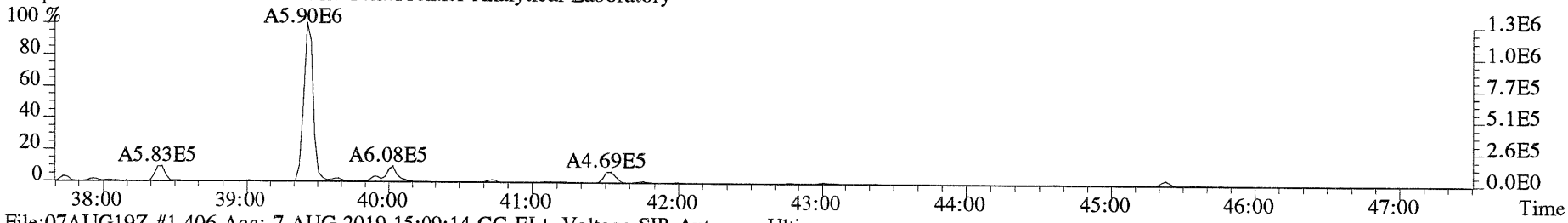
339.9178 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-406 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:5 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



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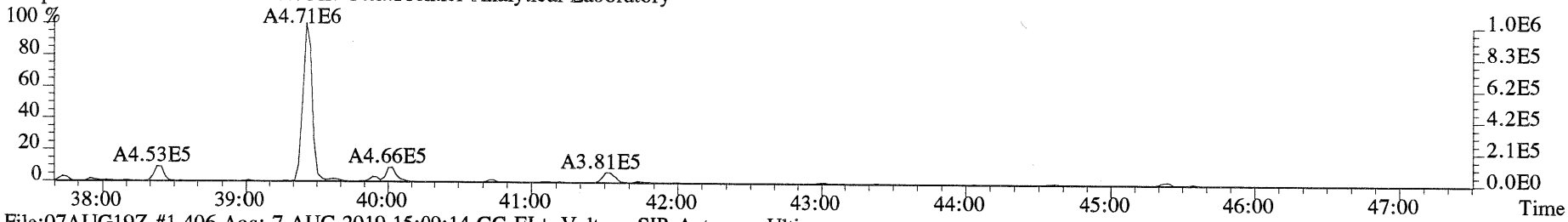
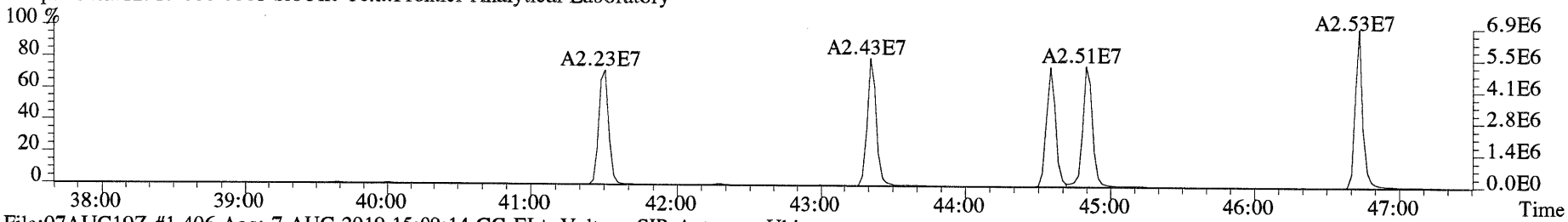
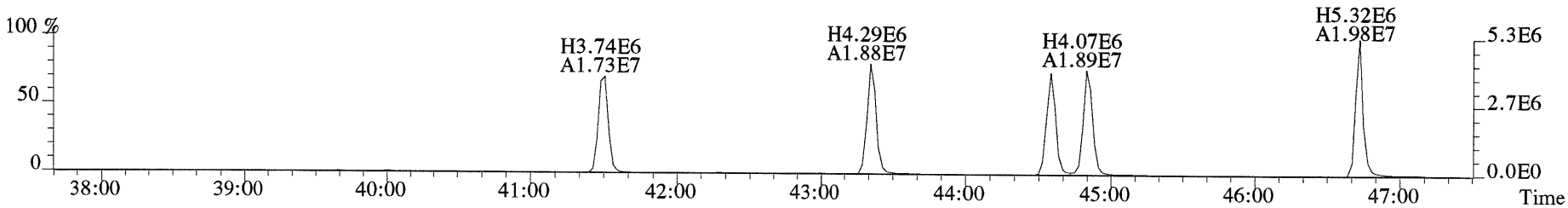
361.8385 S:10 F:5 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



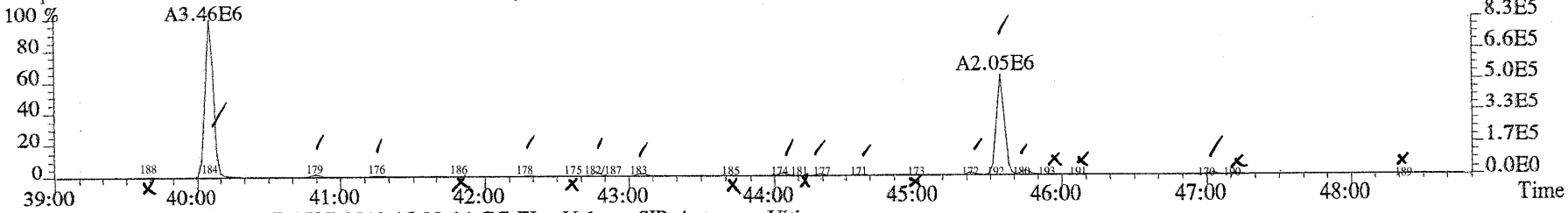
File:07AUG19Z #1-406 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



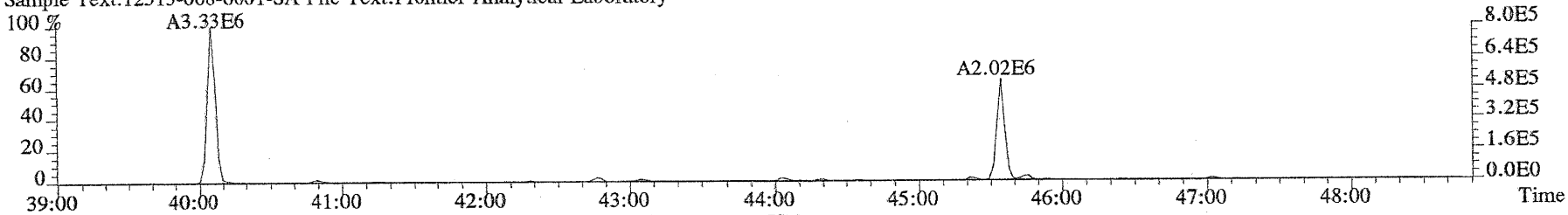
File:07AUG19Z #1-406 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



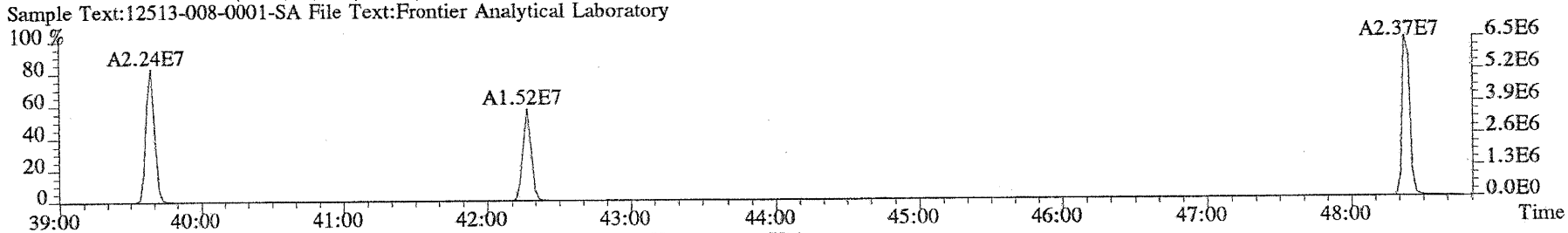
File:07AUG19Z #1-406 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



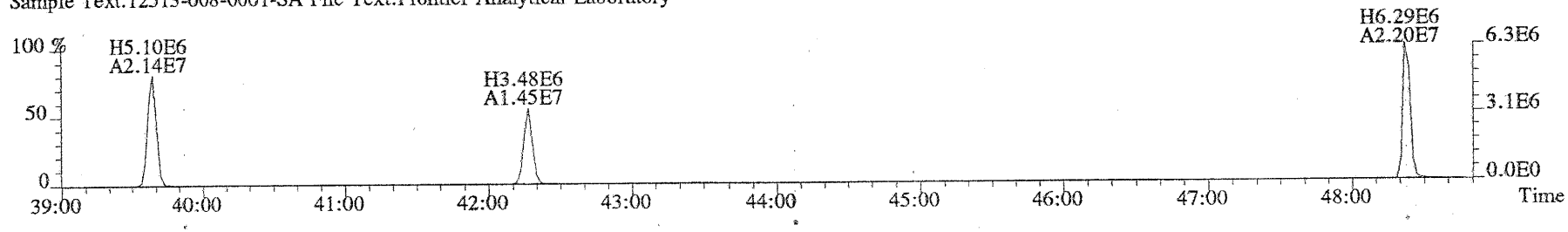
File:07AUG19Z #1-406 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



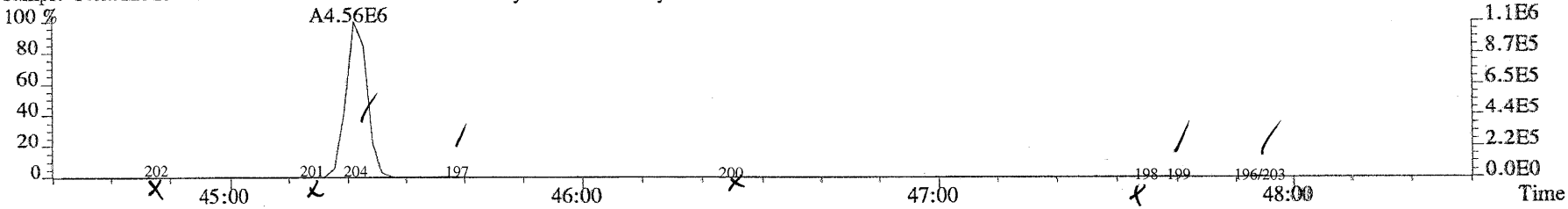
File:07AUG19Z #1-406 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



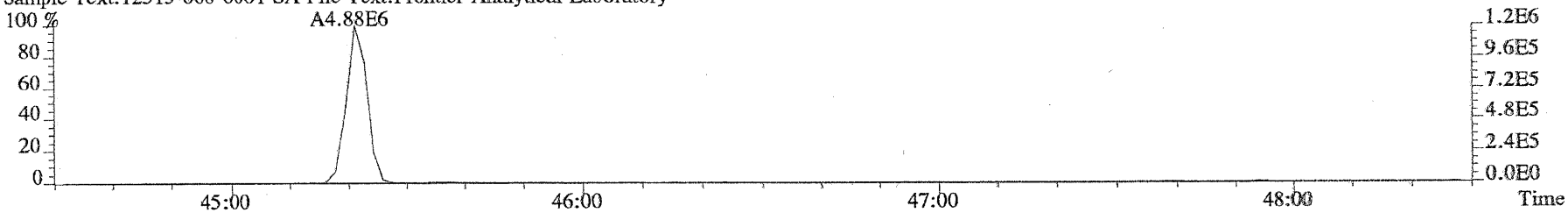
File:07AUG19Z #1-406 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



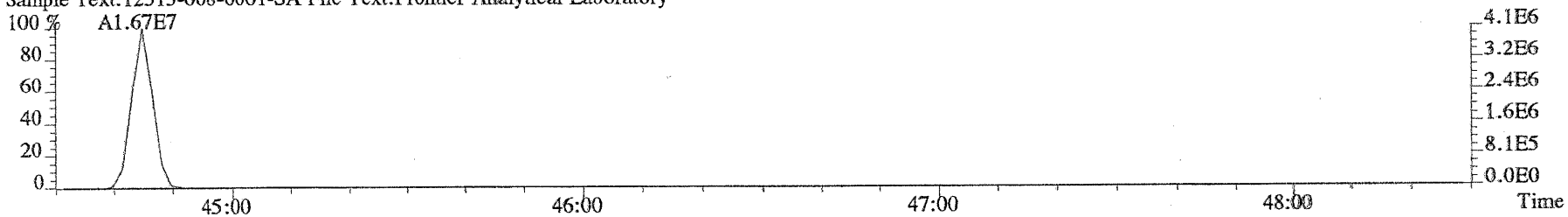
File:07AUG19Z #1-406 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



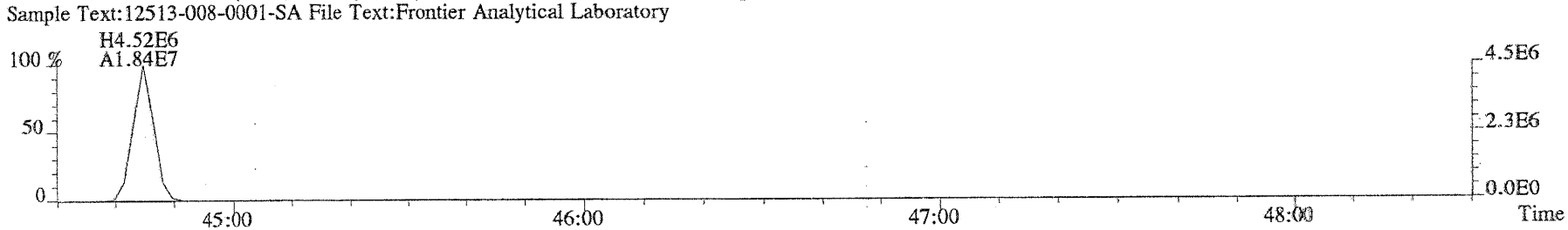
File:07AUG19Z #1-406 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



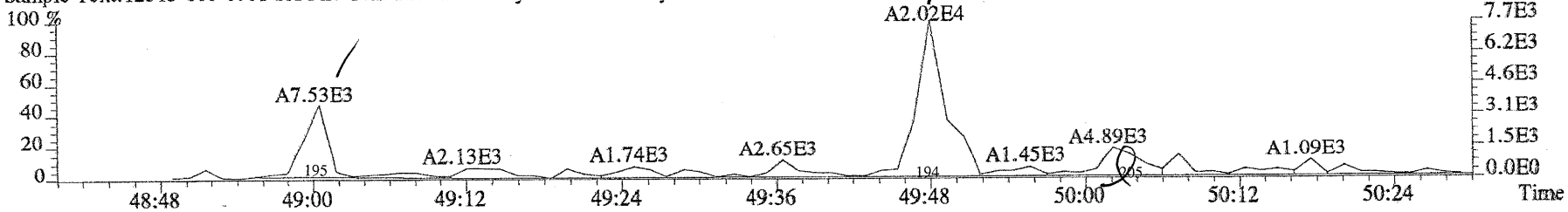
File:07AUG19Z #1-406 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



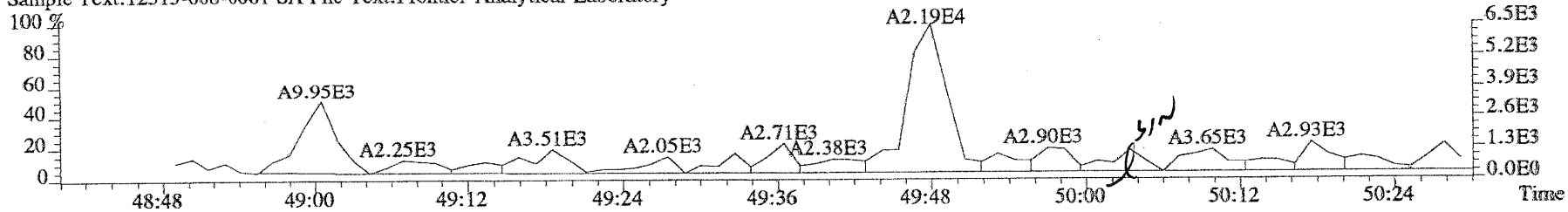
File:07AUG19Z #1-406 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



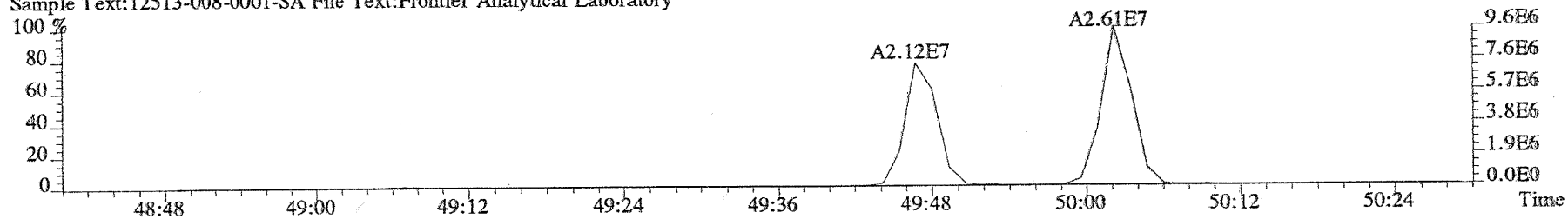
File:07AUG19Z #1-314 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



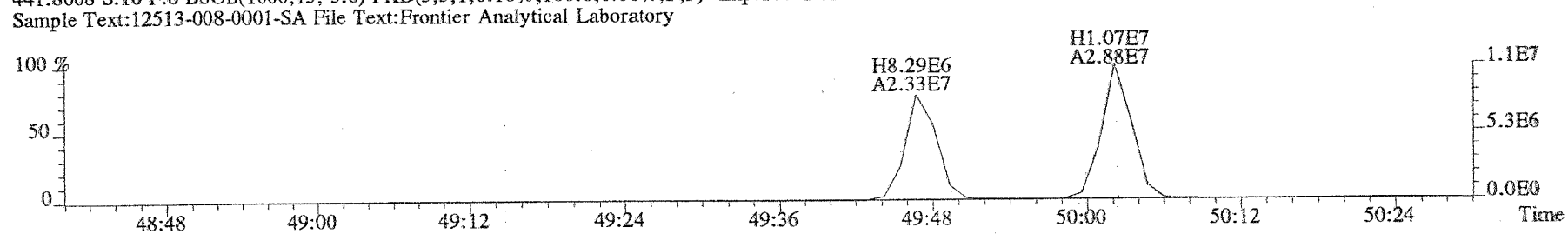
File:07AUG19Z #1-314 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



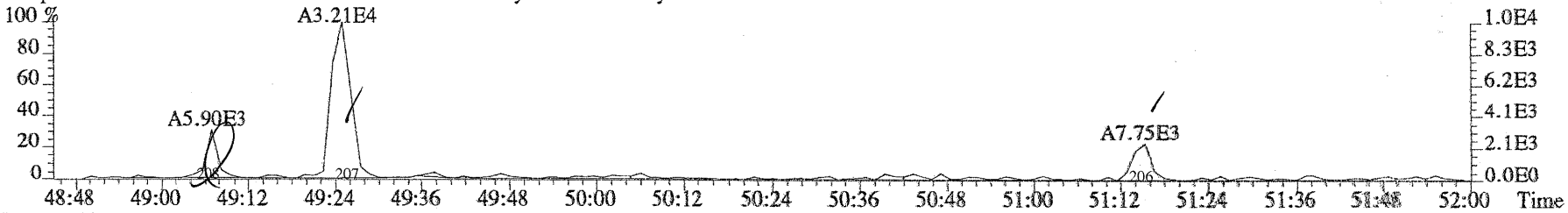
File:07AUG19Z #1-314 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-314 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-314 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-314 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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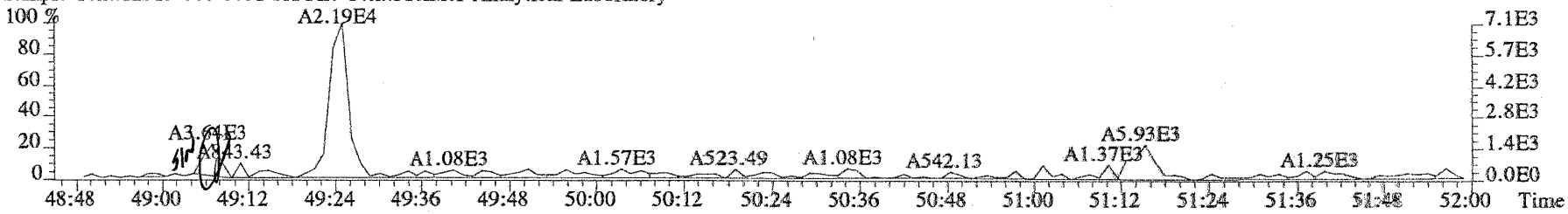
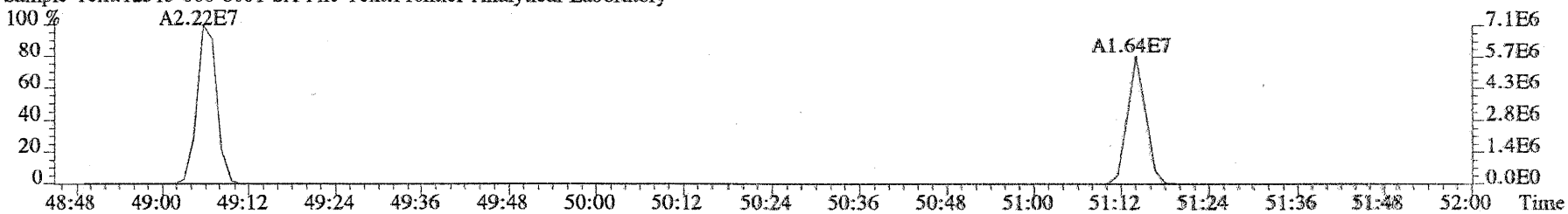
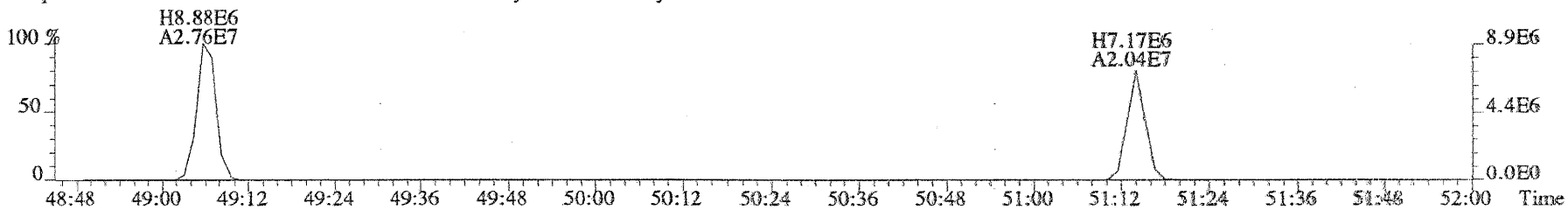


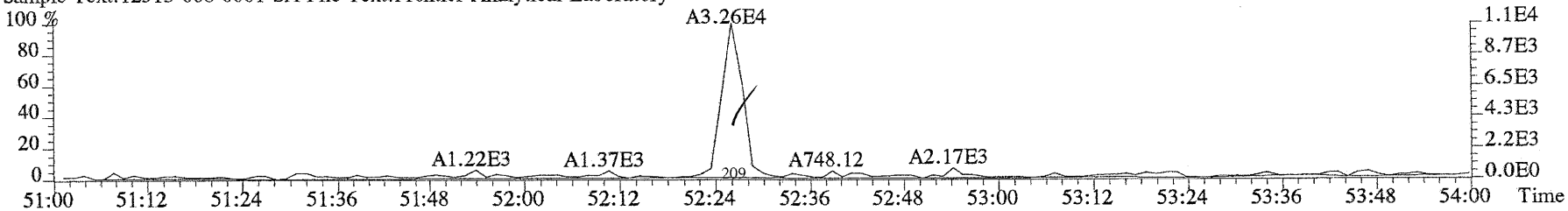
File:07AUG19Z #1-314 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-314 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-314 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



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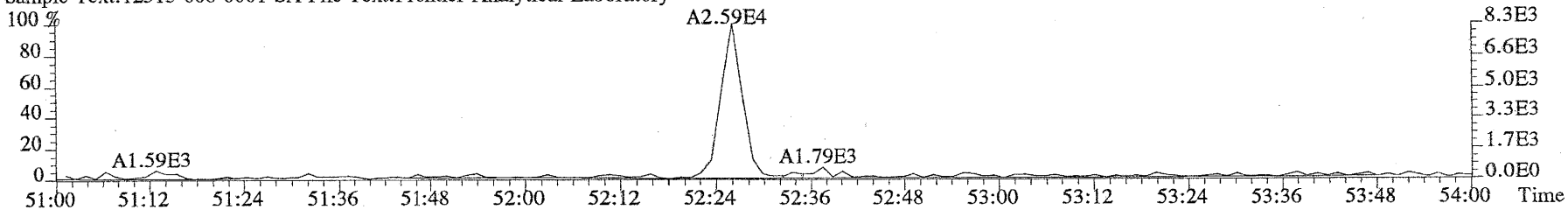
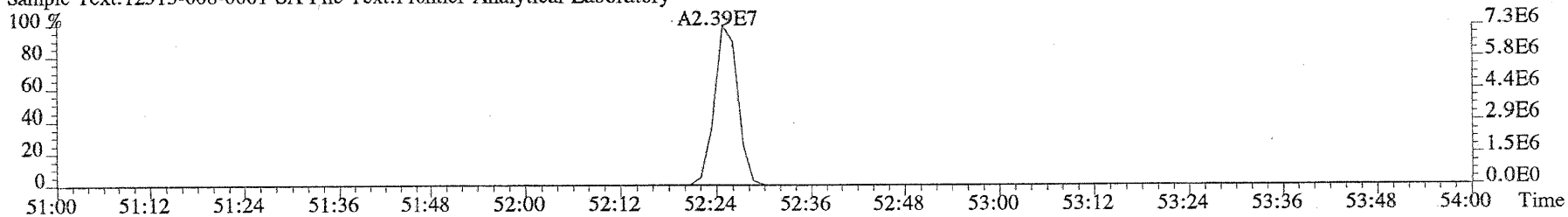
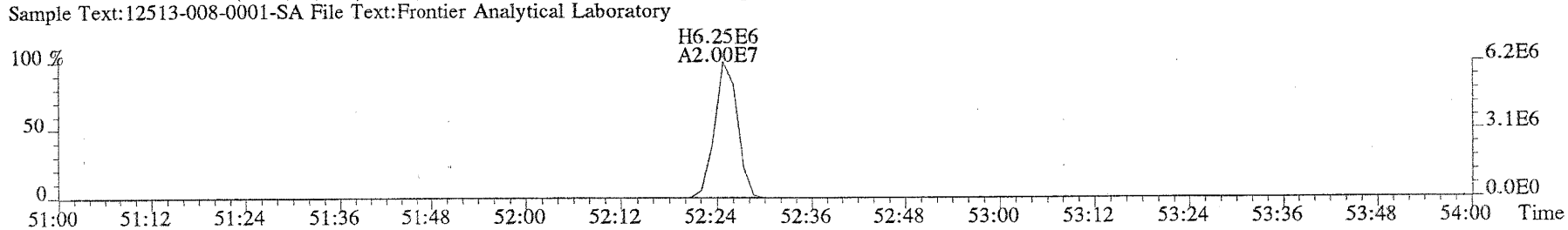
499.6797 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-314 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-314 Acq: 7-AUG-2019 15:09:14 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-008-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12513-009-0001-SA Filename: 07AUG19Z Sam:11 Acquired: 7-AUG-19 16:08:01 ICal: DAILY209FAL4-8-7-19
Client ID: LDW-Y2-SC-ENR-CD-SSWI ConCal: ST080719Z1 EndCal: ST080719Z2
Results: 12513 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.85e+05	2.88 y	14:32	1.11	17.8	J	-	-	*	
13C-PCB-1	9.37e+07	3.20 y	14:31	0.91	8410					84.1
PCB-2	*	* n	NotFnd	1.13	*		1640	1260	2.23	
PCB-3	6.97e+04	3.04 y	16:58	1.15	6.30	J	-	-	*	
13C-PCB-3	9.58e+07	3.18 y	16:57	0.89	8880					88.8
PCB-4	3.44e+06	1.48 y	18:11	1.16	417		-	-	*	
PCB-10	3.53e+05	1.45 y	18:16	1.28	30.4		-	-	*	
13C-PCB-4	7.12e+07	1.58 y	18:10	0.65	9050					90.5
PCB-9	7.45e+05	1.52 y	19:52	1.40	58.6		-	-	*	
PCB-7	5.10e+05	1.47 y	19:54	1.36	41.2		-	-	*	
PCB-6	2.64e+06	1.55 y	20:30	1.38	210		-	-	*	
PCB-8	1.22e+07	1.54 y	20:52	1.34	1010		-	-	*	
PCB-5	*	* n	NotFnd	1.34	*		1580	9990	9.47	
PCB-14	6.16e+06	1.54 y	21:55	1.32	513		-	-	*	
PCB-11	7.27e+05	1.57 y	23:04	1.20	66.4		-	-	*	
PCB-13	1.81e+05	1.59 y	23:24	1.18	16.9	J	-	-	*	
PCB-12	2.68e+05	1.44 y	23:26	1.23	23.9		-	-	*	
PCB-15	3.46e+06	1.40 y	23:43	1.08	290		-	-	*	
13C-PCB-15	1.10e+08	1.59 y	23:42	0.93	9730					97.3
PCB-19	2.47e+06	1.07 y	22:04	1.19	374		1990	-	2.68	
PCB-30	*	* n	NotFnd	1.77	*		1990	552	2.30	
PCB-18	1.53e+07	1.08 y	23:36	1.18	2330		-	-	*	
PCB-17	7.14e+06	1.07 y	23:47	1.29	991		-	-	*	
PCB-27	1.13e+06	1.08 y	24:17	1.74	117		-	-	*	
PCB-24	1.33e+06	1.10 y	24:18	1.64	145		-	-	*	
PCB-16	5.34e+06	1.07 y	24:47	1.36	706		-	-	*	
PCB-32	7.06e+06	1.10 y	24:48	1.53	829		-	-	*	
13C-PCB-19	5.56e+07	1.08 y	22:02	0.51	9020					90.2
13C-PCB-9	1.22e+08	1.62 y	19:51	-	125					
PCB-34	1.35e+05	1.02 y	25:34	1.14	13.6	J	-	-	*	
PCB-23	5.27e+04	1.08 y	25:39	1.35	4.44	J	-	-	*	
PCB-29	1.93e+05	1.16 y	25:54	1.30	16.9	J	-	-	*	
PCB-26	4.02e+06	1.03 y	26:05	1.24	368		-	-	*	
PCB-25	2.34e+06	0.98 y	26:14	1.22	217		-	-	*	
PCB-31	1.85e+07	1.02 y	26:34	1.28	1650		-	-	*	
PCB-28	2.42e+07	1.02 y	26:39	1.42	1940		-	-	*	
PCB-20	1.24e+07	1.00 y	27:16	1.18	1200		-	-	*	Co-elute PCB 21/33
PCB-21	1.24e+07	1.00 y	27:16	1.18	1200		-	-	*	Co-elute PCB 20/33
PCB-33	1.24e+07	1.00 y	27:16	1.18	1200		-	-	*	Co-elute PCB 20/21
PCB-22	6.89e+06	1.00 y	27:40	1.23	636		-	-	*	
PCB-36	6.83e+06	0.96 y	28:17	1.18	660		-	-	*	
PCB-39	6.78e+04	1.02 y	28:43	1.17	6.61	J	-	-	*	
PCB-38	8.72e+04	1.03 y	29:25	1.17	8.49	J	-	-	*	
PCB-35	1.87e+05	1.00 y	29:59	1.03	20.6		-	-	*	
PCB-37	3.29e+06	1.02 y	30:22	1.09	345		-	-	*	
13C-PCB-37	8.78e+07	1.08 y	30:21	1.32	10100					101

PCB-54	9.54e+04	0.82	y	25:36	1.19	11.2	J	-	-	*	
PCB-50	8.95e+04	0.87	y	26:42	0.93	13.4	J	-	-	*	
PCB-53	2.55e+06	0.81	y	27:19	0.92	387		-	-	*	
PCB-51	8.44e+05	0.80	y	27:38	0.96	123		-	-	*	
PCB-45	2.31e+06	0.80	y	28:02	0.79	407		-	-	*	
PCB-46	8.82e+05	0.85	y	28:29	0.75	165		-	-	*	
PCB-52	1.00e+07	0.81	y	28:56	0.93	1500		-	-	*	Co-elute PCB 69
PCB-69	1.00e+07	0.81	y	28:56	0.93	1500		-	-	*	Co-elute PCB 52
PCB-73	2.73e+05	0.77	y	29:02	1.15	33.2		-	-	*	
PCB-43	7.06e+06	0.79	y	29:12	0.81	1220		-	-	*	Co-elute PCB 49
PCB-49	7.06e+06	0.79	y	29:12	0.81	1220		-	-	*	Co-elute PCB 43
PCB-47	2.51e+06	0.80	y	29:25	0.86	407		-	-	*	
PCB-48	2.55e+06	0.82	y	29:31	1.04	343		-	-	*	Co-elute PCB 75
PCB-75	2.55e+06	0.82	y	29:31	1.04	343		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.05	*		1670	2000	4.85	
PCB-62	*	*	n	NotFnd	1.09	*		1670	2000	4.68	
PCB-44	6.52e+06	0.78	y	30:09	0.69	1320		-	-	*	
PCB-42	3.63e+06	0.81	y	30:23	0.90	564		-	-	*	Co-elute PCB 59
PCB-59	3.63e+06	0.81	y	30:23	0.90	564		-	-	*	Co-elute PCB 42
PCB-72	8.19e+06	0.79	y	30:56	0.96	1190		-	-	*	Co-elute PCB 41/71/64
PCB-41	8.19e+06	0.79	y	30:56	0.96	1190		-	-	*	Co-elute PCB 72/71/64
PCB-71	8.19e+06	0.79	y	30:56	0.96	1190		-	-	*	Co-elute PCB 72/41/64
PCB-64	8.19e+06	0.79	y	30:56	0.96	1190		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.80e+05	0.82	y	31:10	1.11	22.6		-	-	*	
PCB-40	1.29e+06	0.78	y	31:23	0.60	301		-	-	*	
PCB-57	6.45e+04	0.77	y	31:44	1.00	9.00	J	-	-	*	
PCB-67	2.92e+05	0.74	y	32:02	0.94	43.3		-	-	*	
PCB-58	*	*	n	NotFnd	1.06	*		1670	2000	4.82	
PCB-63	2.82e+05	0.82	y	32:17	1.00	39.5		-	-	*	
PCB-74	3.24e+06	0.80	y	32:33	0.97	464		-	-	*	
PCB-61	6.86e+06	0.79	y	32:45	0.93	1030		-	-	*	Co-elute PCB 70
PCB-70	6.86e+06	0.79	y	32:45	0.93	1030		-	-	*	Co-elute PCB 61
PCB-76	6.68e+06	0.80	y	32:57	1.02	911		-	-	*	Co-elute PCB 66
PCB-66	6.68e+06	0.80	y	32:57	1.02	911		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.20	*		1670	2000	4.24	
PCB-55	5.19e+05	0.85	y	33:28	1.03	70.5		-	-	*	
13C-PCB-54	7.17e+07	0.82	y	25:34	1.26	8620					86.2
PCB-104	1.16e+07	1.58	y	30:00	1.08	1690		-	-	*	
PCB-96	8.60e+04	1.49	y	31:13	0.98	13.7	J	-	-	*	
PCB-103	1.02e+05	1.47	y	31:43	0.77	20.7		-	-	*	
PCB-100	7.60e+04	1.49	y	32:03	0.79	15.2	J	-	-	*	
PCB-94	2.99e+04	1.41	y	32:30	0.64	7.36	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.65	*		328	436	1.92	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.65	*		328	436	1.92	Co-elute PCB 98
PCB-95	4.47e+06	1.56	y	33:01	0.69	1020		-	-	*	
PCB-93	*	*	n	NotFnd	0.69	*		328	436	1.81	
PCB-88	*	*	n	NotFnd	0.72	*		328	436	1.72	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.72	*		328	436	1.72	Co-elute PCB 88
PCB-121	2.03e+07	1.58	y	33:28	0.87	3650		-	-	*	
13C-PCB-104	6.36e+07	1.59	y	29:59	1.00	9540					95.4
13C-PCB-28	1.23e+08	1.07	y	26:39	1.67	11100					111
13C-PCB-52	6.63e+07	0.82	y	28:55	-	135					

PCB-56	4.23e+06	0.77	y	33:57	1.02	603		-	-	*	Co-elute PCB 60
PCB-60	4.23e+06	0.77	y	33:57	1.02	603		-	-	*	Co-elute PCB 56
PCB-79	9.11e+04	0.83	y	34:56	1.16	11.4	J	-	-	*	
PCB-78	1.63e+07	0.78	y	35:36	1.11	2130		-	-	*	
PCB-81	2.23e+05	0.70	y	36:07	1.17	27.6		-	-	*	
13C-PCB-81	6.91e+07	0.81	y	36:06	1.41	9760					97.6
PCB-77	3.82e+05	0.78	y	36:40	1.00	56.0		-	-	*	
13C-PCB-77	6.84e+07	0.80	y	36:40	1.45	9320					93.2
PCB-155	1.90e+07	1.27	y	34:09	1.01	3170		-	-	*	
PCB-150	*	*	n	NotFnd	0.98	*		528	424	1.84	
PCB-152	*	*	n	NotFnd	0.87	*		528	424	2.07	
PCB-145	*	*	n	NotFnd	0.96	*		528	424	1.87	
PCB-136	8.09e+05	1.27	y	36:32	0.94	146		-	-	*	
PCB-148	*	*	n	NotFnd	0.63	*		528	424	2.84	
PCB-154	1.20e+05	1.30	y	37:05	0.79	25.9		-	-	*	
13C-PCB-155	5.91e+07	1.28	y	34:08	1.27	9260					92.6
13C-PCB-111	5.88e+07	1.61	y	36:13	1.24	9430					94.3
13C-PCB-101	5.04e+07	1.61	y	34:36	-	135					
PCB-84	2.20e+06	1.54	y	34:16	0.83	445		-	-	*	Co-elute PCB 92
PCB-92	2.20e+06	1.54	y	34:16	0.83	445		-	-	*	Co-elute PCB 84
PCB-89	1.09e+05	1.53	y	34:24	0.81	22.5		-	-	*	
PCB-90	4.94e+06	1.58	y	34:37	0.91	908		-	-	*	Co-elute PCB 101
PCB-101	4.94e+06	1.58	y	34:37	0.91	908		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.04	*		1270	1020	4.37	
PCB-99	2.21e+06	1.57	y	34:56	1.00	368		-	-	*	
PCB-119	1.70e+05	1.69	y	35:21	1.15	24.7		-	-	*	
PCB-83	2.17e+05	1.50	y	35:31	0.91	39.9		-	-	*	Co-elute PCB 112
PCB-112	2.17e+05	1.50	y	35:31	0.91	39.9		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.09	*		1270	1020	4.20	
PCB-97	1.13e+06	1.59	y	35:50	0.75	252		-	-	*	
PCB-86	5.89e+04	1.37	y	35:59	0.83	11.8	J	-	-	*	
PCB-125	1.66e+06	1.64	y	36:07	0.99	280		-	-	*	Co-elute PCB 87/117
PCB-87	1.66e+06	1.64	y	36:07	0.99	280		-	-	*	Co-elute PCB 125/117
PCB-117	1.66e+06	1.64	y	36:07	0.99	280		-	-	*	Co-elute PCB 125/87
PCB-111	8.38e+04	1.49	y	36:16	1.14	12.3	J	-	-	*	Co-elute PCB 115
PCB-115	8.38e+04	1.49	y	36:16	1.14	12.3	J	-	-	*	Co-elute PCB 111
PCB-85	6.80e+05	1.60	y	36:22	0.99	115		-	-	*	Co-elute PCB 116
PCB-116	6.80e+05	1.60	y	36:22	0.99	115		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.18	*		1270	1020	3.86	
PCB-110	4.89e+06	1.55	y	36:45	1.13	725		-	-	*	
PCB-82	3.54e+05	1.55	y	37:20	0.66	89.8		-	-	*	
PCB-124	1.80e+05	1.35	y	37:59	1.13	26.6		-	-	*	
PCB-108	2.34e+05	1.50	y	38:08	1.08	36.3		-	-	*	Co-elute PCB 107
PCB-107	2.34e+05	1.50	y	38:08	1.08	36.3		-	-	*	Co-elute PCB 108
PCB-123	6.95e+04	1.43	y	38:17	1.02	11.8	J	-	-	*	
13C-PCB-123	5.81e+07	1.58	y	38:17	1.21	10700					107
PCB-118	3.11e+06	1.54	y	38:28	1.04	467		-	-	*	Co-elute PCB 106
PCB-106	3.11e+06	1.54	y	38:28	1.04	467		-	-	*	Co-elute PCB 118
13C-PCB-118	6.42e+07	1.63	y	38:27	1.36	10500					105
PCB-114	7.21e+04	1.54	y	39:04	1.13	10.5	J	-	-	*	
13C-PCB-114	6.07e+07	1.61	y	39:03	1.26	10700					107
PCB-122	4.67e+04	1.48	y	39:13	1.04	7.50	J	-	-	*	
PCB-105	1.08e+06	1.46	y	39:54	1.12	171		-	-	*	
13C-PCB-105	5.66e+07	1.59	y	39:52	1.26	9960					99.6

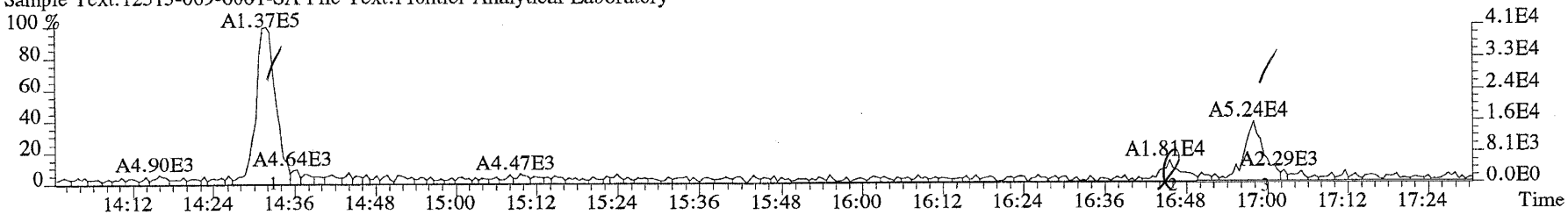
PCB-127	*	*	n	NotFnd	1.03	*		1030	740	3.44	
PCB-126	*	*	n	NotFnd	1.08	*		1030	740	4.12	
13C-PCB-126	5.01e+07	1.55	y	42:01	1.17	9500					95.0
PCB-151	8.58e+05	1.32	y	37:44	0.88	212		-	-	*	
PCB-135	4.78e+05	1.23	y	37:55	0.83	125		-	-	*	
PCB-144	2.25e+05	1.11	y	38:02	1.01	48.0		-	-	*	
PCB-147	7.75e+04	1.27	y	38:10	0.93	18.0	J	-	-	*	
PCB-139	3.22e+06	1.30	y	38:23	0.99	705		-	-	*	Co-elute PCB 149
PCB-149	3.22e+06	1.30	y	38:23	0.99	705		-	-	*	Co-elute PCB 139
PCB-140	3.49e+04	1.28	y	38:35	0.93	8.16	J	-	-	*	
PCB-143	1.75e+05	1.40	y	39:01	0.77	49.2		-	-	*	Co-elute PCB 134
PCB-134	1.75e+05	1.40	y	39:01	0.77	49.2		-	-	*	Co-elute PCB 143
PCB-131	6.15e+04	1.06	y	39:16	0.78	17.1	J	-	-	*	Co-elute PCB 133
PCB-133	6.15e+04	1.06	y	39:16	0.78	17.1	J	-	-	*	Co-elute PCB 131
PCB-142	4.06e+07	1.24	y	39:26	0.77	11400		-	-	*	
PCB-165	5.91e+05	1.34	y	39:37	1.04	123		-	-	*	Co-elute PCB 146
PCB-146	5.91e+05	1.34	y	39:37	1.04	123		-	-	*	Co-elute PCB 165
PCB-161	9.22e+05	1.11	y	39:54	0.95	210		-	-	*	Co-elute PCB 132
PCB-132	9.22e+05	1.11	y	39:54	0.95	210		-	-	*	Co-elute PCB 161
PCB-153	3.37e+06	1.26	y	40:00	1.08	672		-	-	*	
PCB-168	*	*	n	NotFnd	1.17	*		936	832	3.66	
PCB-141	4.40e+05	1.20	y	40:43	0.85	112		-	-	*	
PCB-137	6.40e+04	1.14	y	41:05	0.77	17.9	J	-	-	*	
PCB-130	1.56e+05	1.10	y	41:11	0.82	41.3		-	-	*	
PCB-138	2.84e+06	1.30	y	41:31	1.04	589		-	-	*	Co-elute PCB 163/164
PCB-163	2.84e+06	1.30	y	41:31	1.04	589		-	-	*	Co-elute PCB 138/164
PCB-164	2.84e+06	1.30	y	41:31	1.04	589		-	-	*	Co-elute PCB 138/163
PCB-158	3.05e+05	1.16	y	41:44	1.16	57.0		-	-	*	Co-elute PCB 160
PCB-160	3.05e+05	1.16	y	41:44	1.16	57.0		-	-	*	Co-elute PCB 158
PCB-129	8.27e+04	1.12	y	42:01	0.73	24.6		-	-	*	
PCB-166	*	*	n	NotFnd	1.09	*		936	832	3.90	
PCB-159	6.56e+04	1.26	y	42:47	1.20	11.8	J	-	-	*	
PCB-128	3.21e+05	1.30	y	43:00	0.94	73.6		-	-	*	Co-elute PCB 162
PCB-162	3.21e+05	1.30	y	43:00	0.94	73.6		-	-	*	Co-elute PCB 128
PCB-167	8.82e+04	1.05	y	43:23	1.07	17.3	J	-	-	*	
13C-PCB-167	4.77e+07	1.27	y	43:21	1.16	9140					91.4
PCB-156	1.89e+05	1.08	y	44:37	1.14	36.8		-	-	*	
13C-PCB-156	4.51e+07	1.29	y	44:35	1.16	8630					86.3
PCB-157	4.43e+04	1.30	y	44:52	1.08	8.50	J	-	-	*	
13C-PCB-157	4.81e+07	1.29	y	44:50	1.17	9130					91.3
PCB-169	*	*	n	NotFnd	1.05	*		936	832	4.07	
13C-PCB-169	4.41e+07	1.29	y	46:42	1.16	8430					84.3

FAL ID: 12513-009-0001-SA Filename: 07AUG19Z Sam:11 Acquired: 7-AUG-19 16:08:01 ICal: DAILY209FAL4-8-7-19
Client ID: LDW-Y2-SC-ENR-CD-SSWI ConCal: ST080719Z1 EndCal: ST080719Z2
Results: 12513 GC Column: DB1MS Amount: 1.000

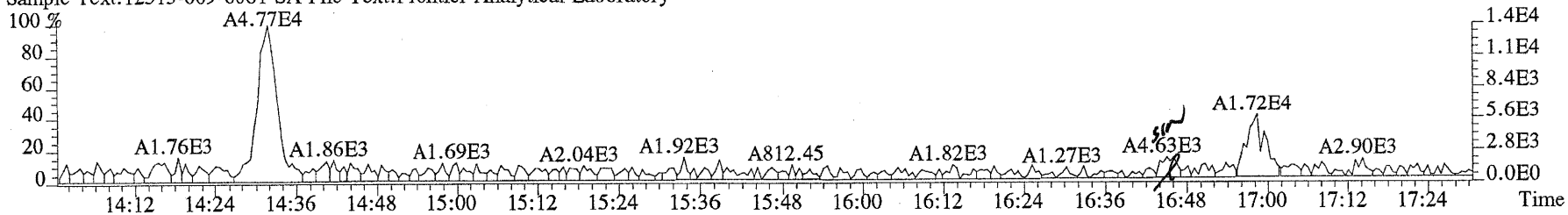
PCB-188	3.46e+04	1.05	y	39:39	1.09	6.46	J	-	-	*	
13C-PCB-188	4.92e+07	1.07	y	39:37	1.15	9520					95.2
PCB-184	2.42e+07	1.06	y	40:05	1.21	4420		-	-	*	
PCB-179	3.58e+05	1.20	y	40:50	1.15	68.7		-	-	*	
PCB-176	1.08e+05	1.17	y	41:14	1.11	21.5		-	-	*	
PCB-186	*	*	n	NotFnd	1.12	*		948	368	2.43	
PCB-178	1.04e+05	0.91	y	42:17	0.77	29.6		-	-	*	
PCB-175	*	*	n	NotFnd	0.80	*		948	368	3.42	
PCB-187	5.99e+05	1.07	y	42:47	0.89	148		-	-	*	Co-elute PCB 182
PCB-182	5.99e+05	1.07	y	42:47	0.89	148		-	-	*	Co-elute PCB 187
PCB-183	3.02e+05	1.15	y	43:05	0.86	76.8		-	-	*	
PCB-185	*	*	n	NotFnd	0.79	*		948	368	3.46	
PCB-174	4.27e+05	1.10	y	44:04	0.81	115		-	-	*	
PCB-181	*	*	n	NotFnd	0.78	*		948	368	3.52	
PCB-177	2.08e+05	1.08	y	44:19	0.73	62.9		-	-	*	
PCB-171	1.06e+05	1.19	y	44:35	0.80	29.0		-	-	*	
PCB-173	*	*	n	NotFnd	0.70	*		948	368	3.90	
PCB-172	4.69e+05	1.05	y	45:21	0.75	137		-	-	*	
PCB-192	1.51e+07	1.06	y	45:35	0.99	3360		-	-	*	
PCB-180	6.95e+04	0.90	y	45:54	0.77	19.8	J	-	-	*	
PCB-193	*	*	n	NotFnd	1.04	*		948	368	2.62	
PCB-191	*	*	n	NotFnd	1.04	*		948	368	2.64	
PCB-170	2.52e+05	0.99	y	47:02	0.78	71.2		-	-	*	
PCB-190	*	*	n	NotFnd	1.05	*		948	368	2.59	
PCB-189	*	*	n	NotFnd	1.12	*		948	368	2.19	
13C-PCB-189	4.18e+07	1.06	y	48:22	1.01	9160					91.6
PCB-202	4.39e+04	0.89	y	44:45	0.98	10.9	J	-	-	*	
PCB-201	*	*	n	NotFnd	1.07	*		272	404	1.63	
PCB-204	3.60e+07	0.93	y	45:21	1.04	8480		-	-	*	
PCB-197	2.28e+05	0.95	y	45:38	1.10	50.6		-	-	*	
PCB-200	*	*	n	NotFnd	1.06	*		272	404	1.64	
PCB-198	*	*	n	NotFnd	0.82	*		272	404	2.13	
PCB-199	9.78e+04	0.99	y	47:40	0.77	31.1		-	-	*	
PCB-203	1.18e+05	0.84	y	47:54	0.85	34.1		-	-	*	Co-elute PCB 196
PCB-196	1.18e+05	0.84	y	47:54	0.85	34.1		-	-	*	Co-elute PCB 203
13C-PCB-202	4.08e+07	0.90	y	44:45	0.96	9470					94.7
13C-PCB-178	3.37e+07	1.08	y	42:17	0.74	10100					101
13C-PCB-138	4.50e+07	1.27	y	41:29	-	124					
PCB-195	4.83e+04	0.82	y	49:01	0.77	12.7	J	-	-	*	
PCB-194	1.01e+05	0.86	y	49:48	0.82	25.0		-	-	*	
PCB-205	*	*	n	NotFnd	1.05	*		956	1210	2.86	
13C-PCB-205	4.96e+07	0.90	y	50:02	1.30	9270					92.7
PCB-208	1.91e+04	1.29	y	49:07	1.00	4.00	J	-	-	*	
13C-PCB-208	4.79e+07	0.79	y	49:06	1.34	8700					87.0
PCB-207	1.67e+05	1.43	y	49:25	1.17	34.8		-	-	*	
PCB-206	2.64e+04	1.30	y	51:14	1.05	7.34	J	-	-	*	
13C-PCB-206	3.42e+07	0.79	y	51:14	0.95	8800					88.0
PCB-209	2.00e+05	1.13	y	52:26	1.11	43.0		-	-	*	
13C-PCB-209	4.21e+07	1.21	y	52:25	1.24	8290					82.9
13C-PCB-194	4.10e+07	0.92	y	49:47	-	127					

Analyst: _____ Date: 8/8/19

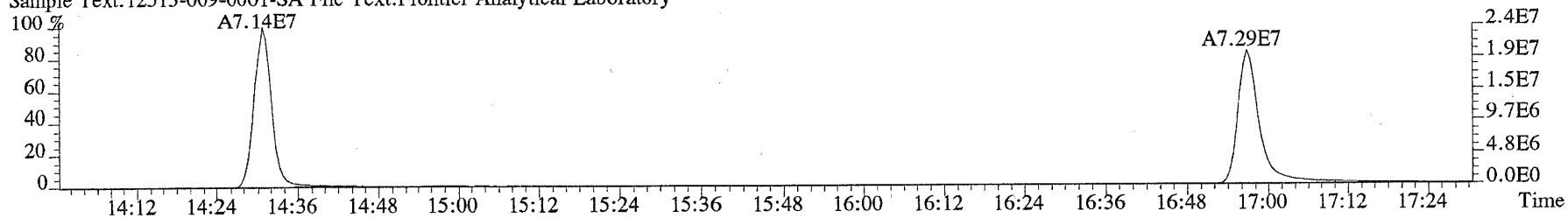
File:07AUG19Z #1-783 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:11 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



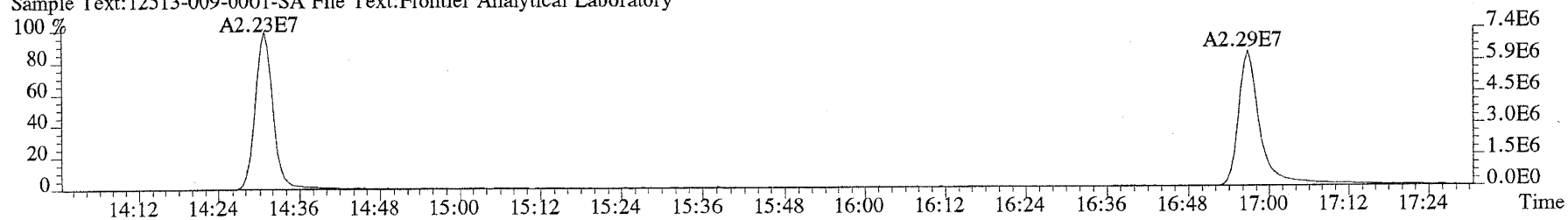
File:07AUG19Z #1-783 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:11 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



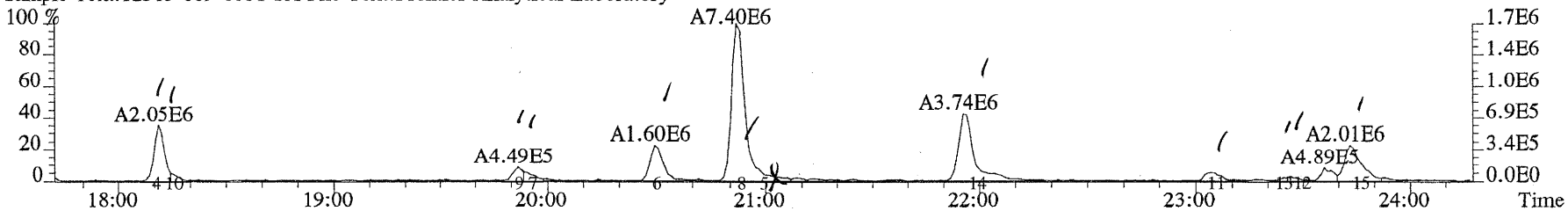
File:07AUG19Z #1-783 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:11 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



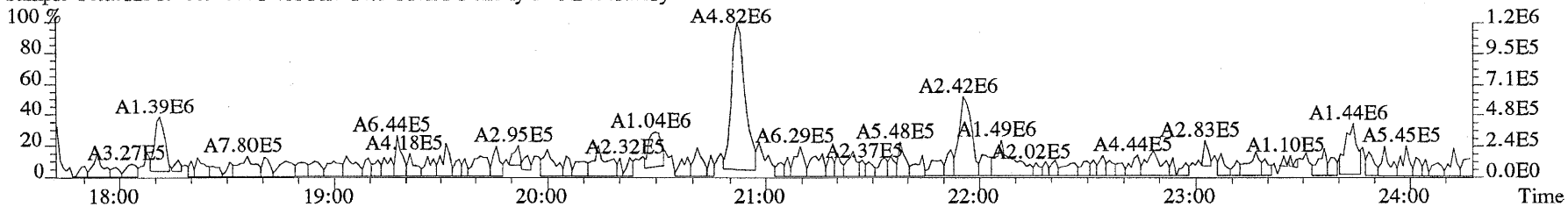
File:07AUG19Z #1-783 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:11 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



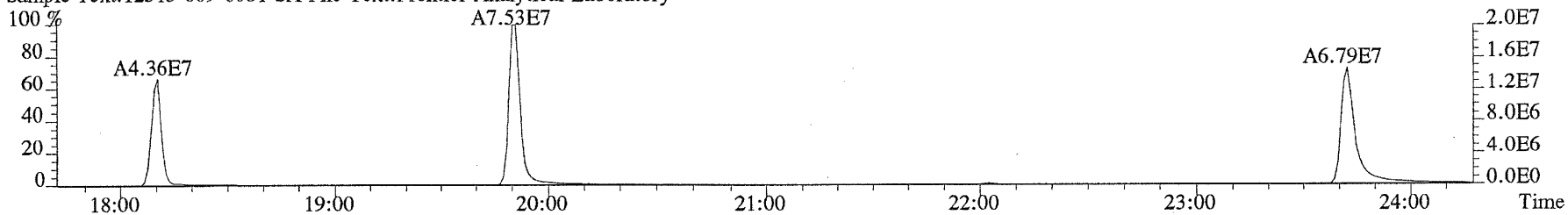
File:07AUG19Z #1-520 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



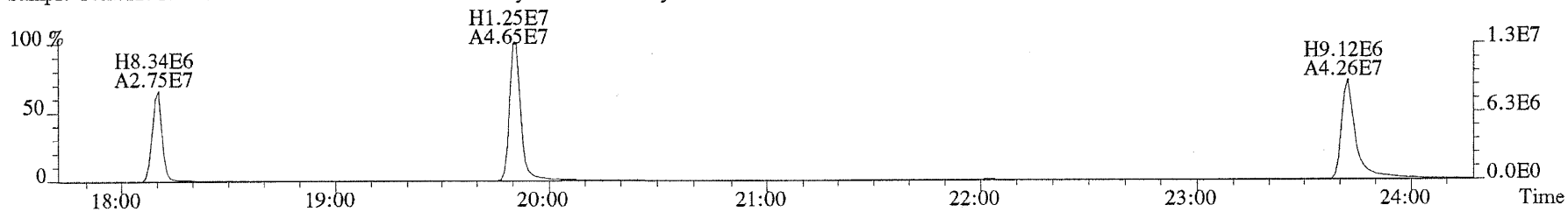
File:07AUG19Z #1-520 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



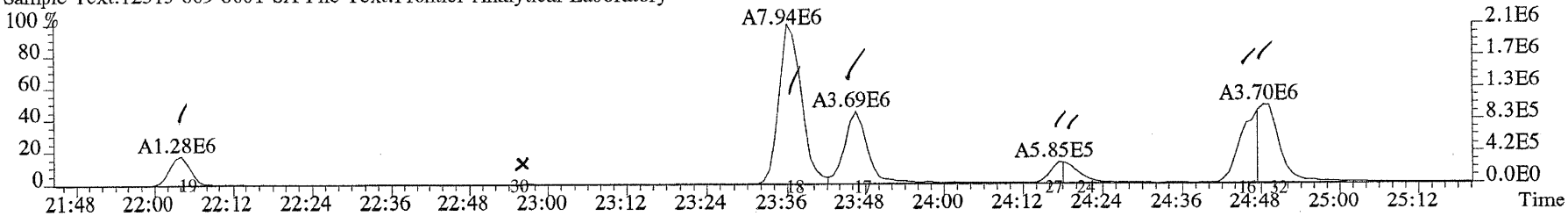
File:07AUG19Z #1-520 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



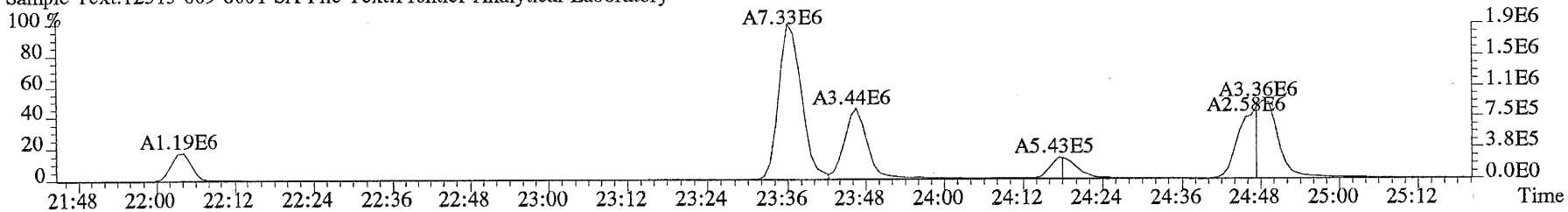
File:07AUG19Z #1-520 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



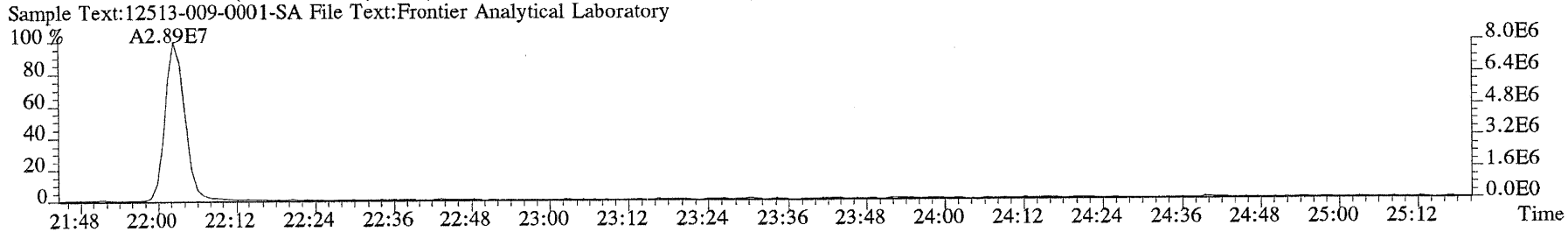
File:07AUG19Z #1-520 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



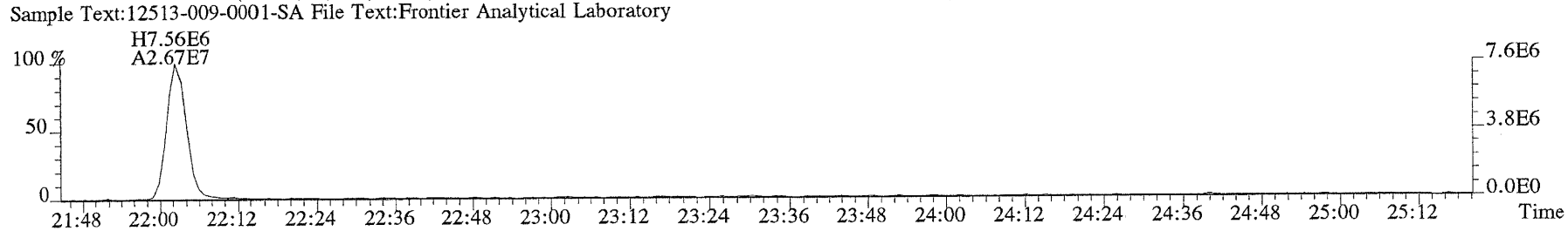
File:07AUG19Z #1-520 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



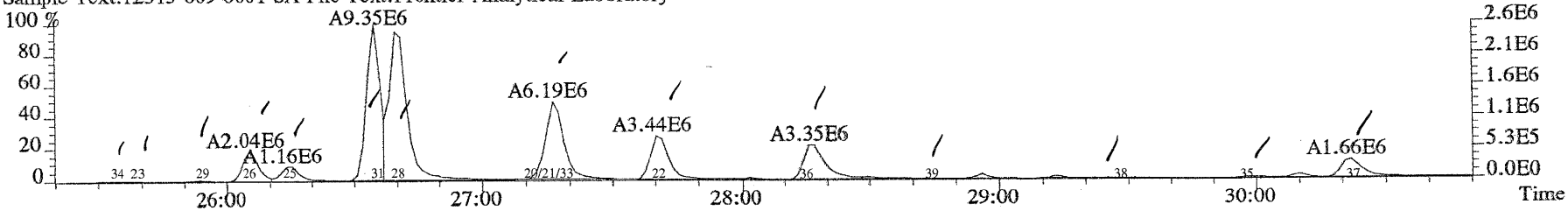
File:07AUG19Z #1-520 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



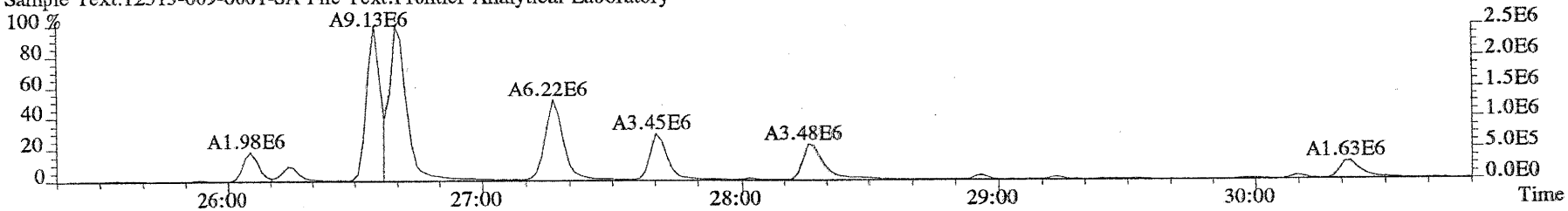
File:07AUG19Z #1-520 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



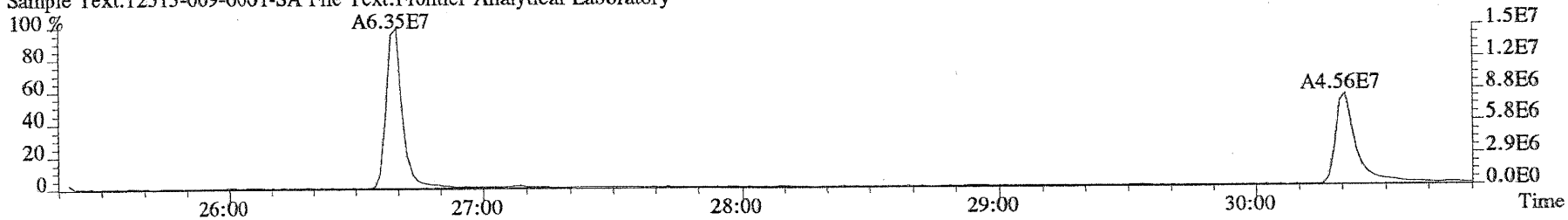
File:07AUG19Z #1-401 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



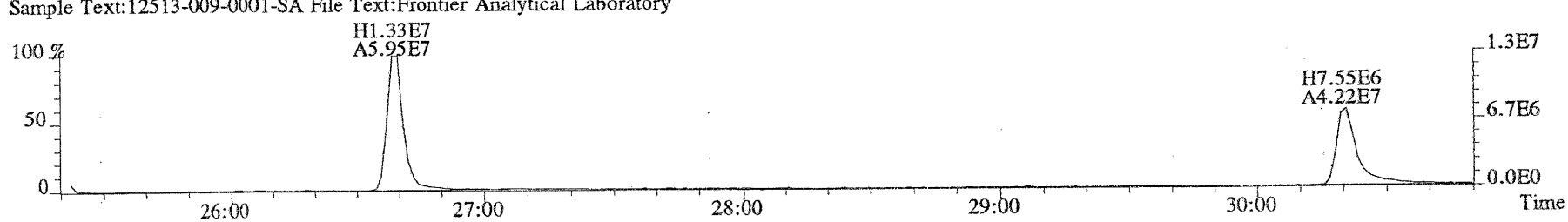
File:07AUG19Z #1-401 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



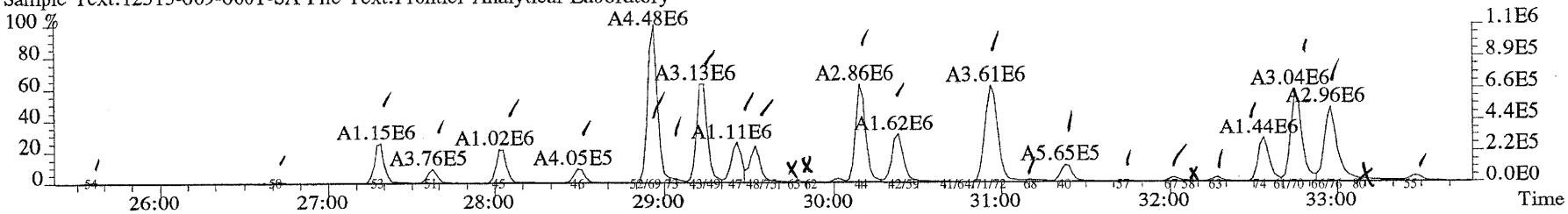
File:07AUG19Z #1-401 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



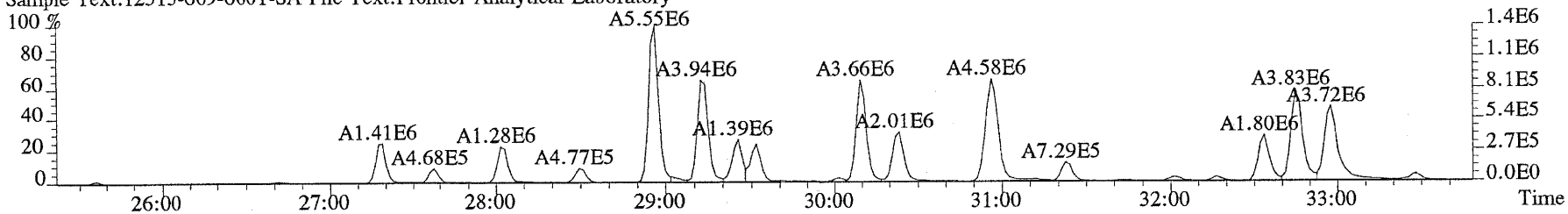
File:07AUG19Z #1-401 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



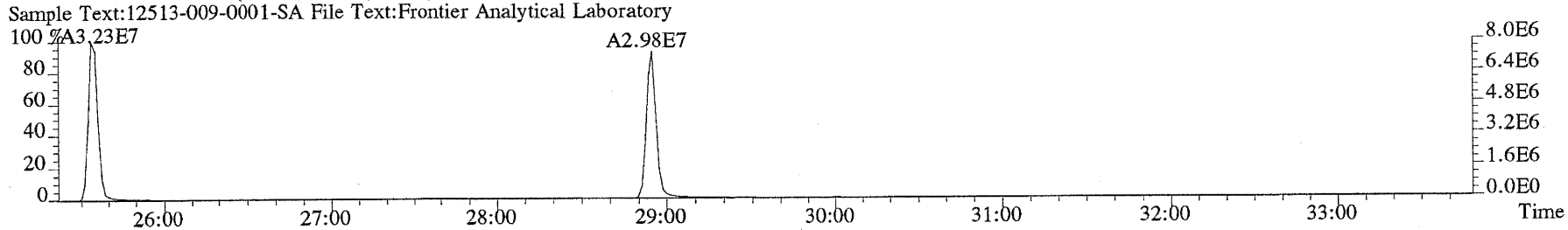
File:07AUG19Z #1-401 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



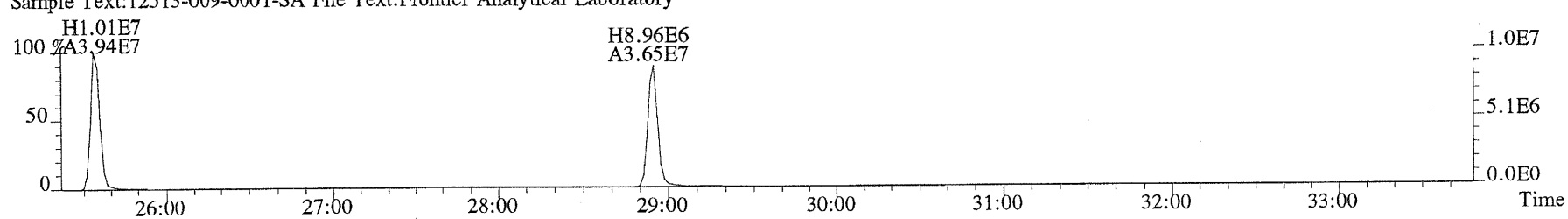
File:07AUG19Z #1-401 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



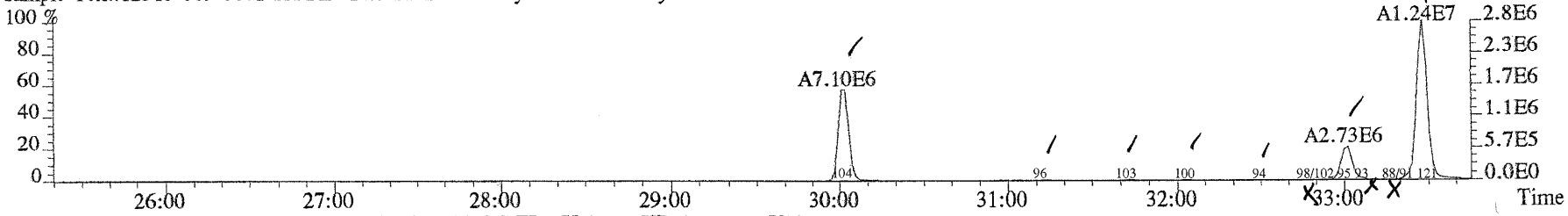
File:07AUG19Z #1-401 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



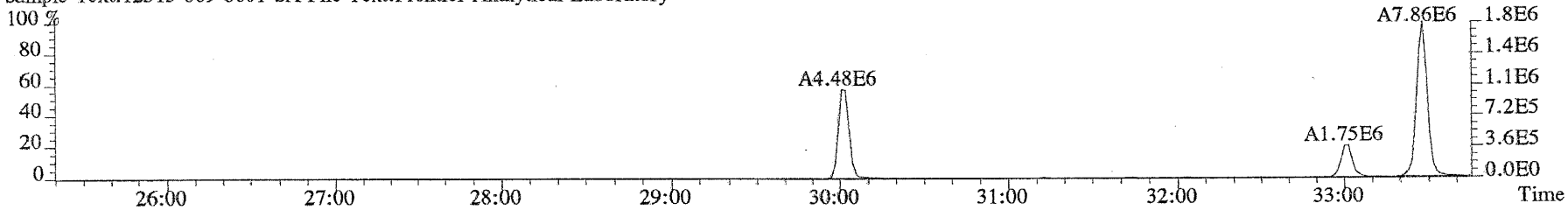
File:07AUG19Z #1-401 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



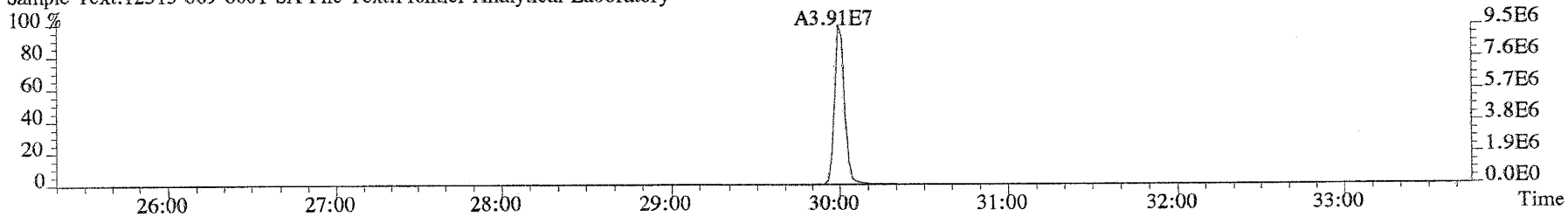
File:07AUG19Z #1-401 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



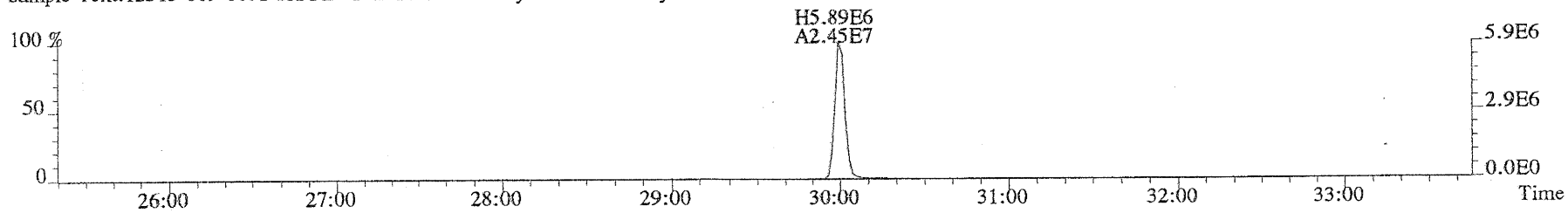
File:07AUG19Z #1-401 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



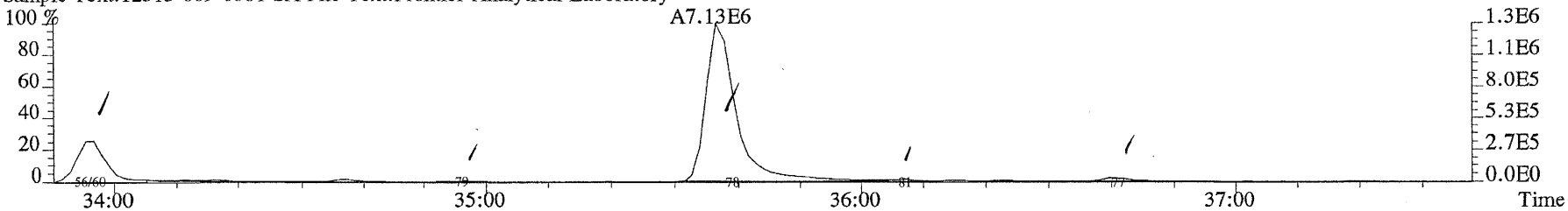
File:07AUG19Z #1-401 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



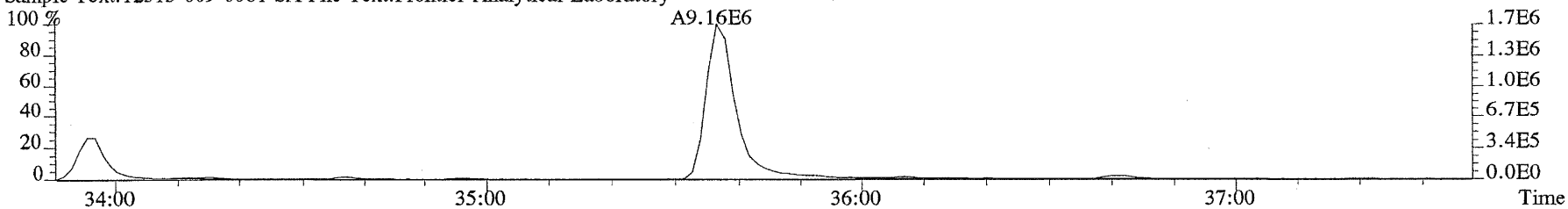
File:07AUG19Z #1-401 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



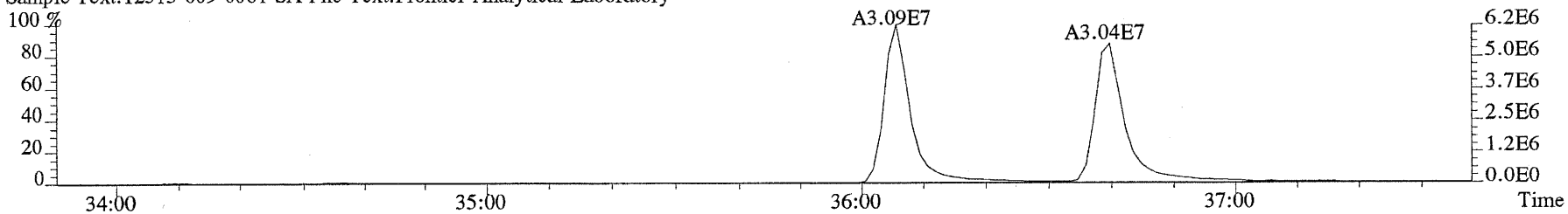
File:07AUG19Z #1-181 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



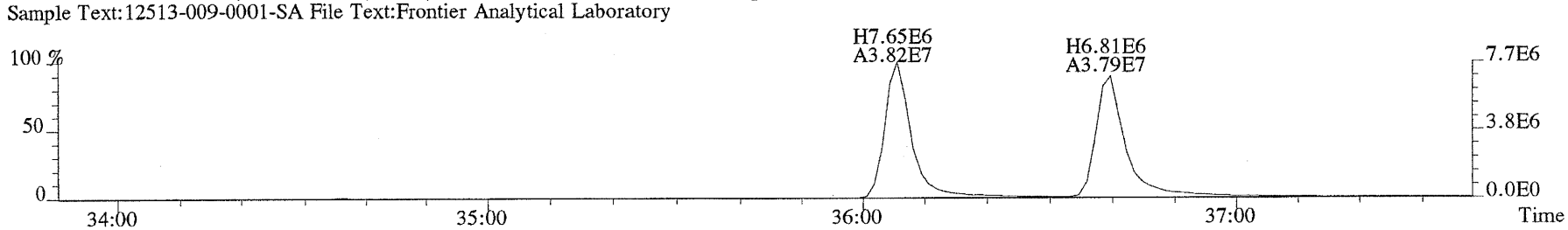
File:07AUG19Z #1-181 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



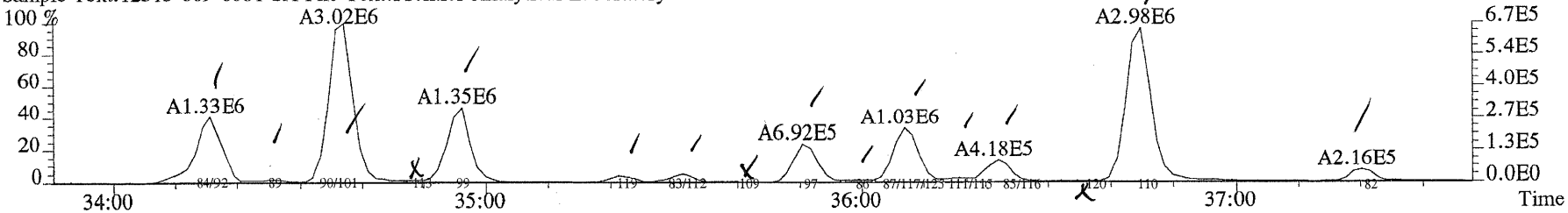
File:07AUG19Z #1-181 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



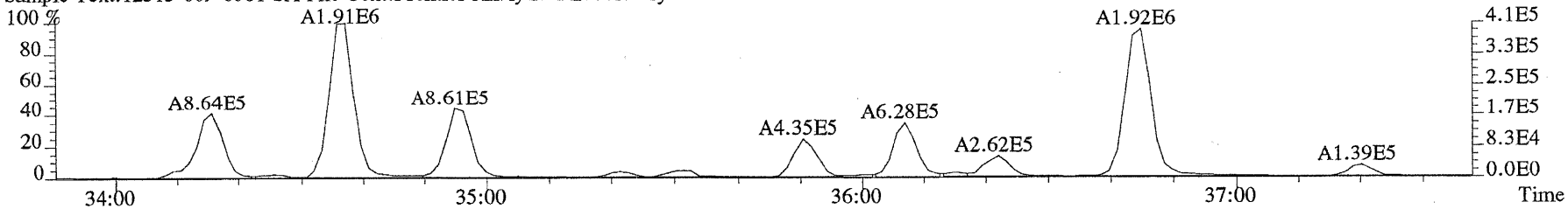
File:07AUG19Z #1-181 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



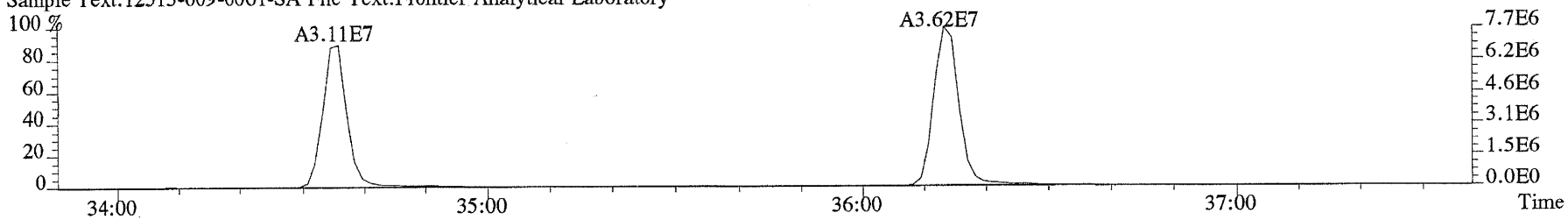
File:07AUG19Z #1-181 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



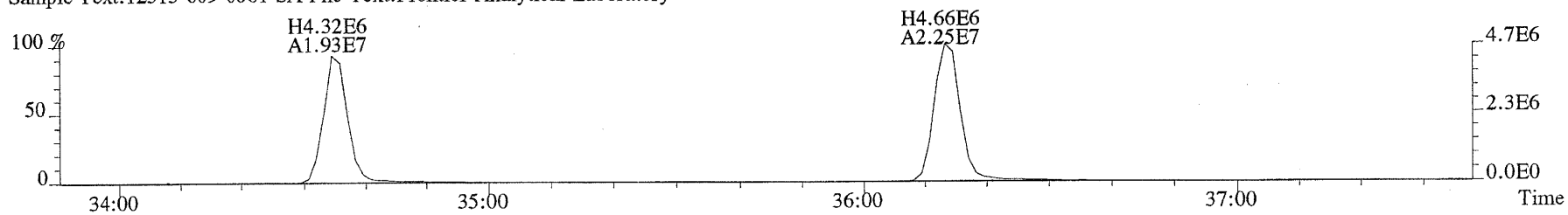
File:07AUG19Z #1-181 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



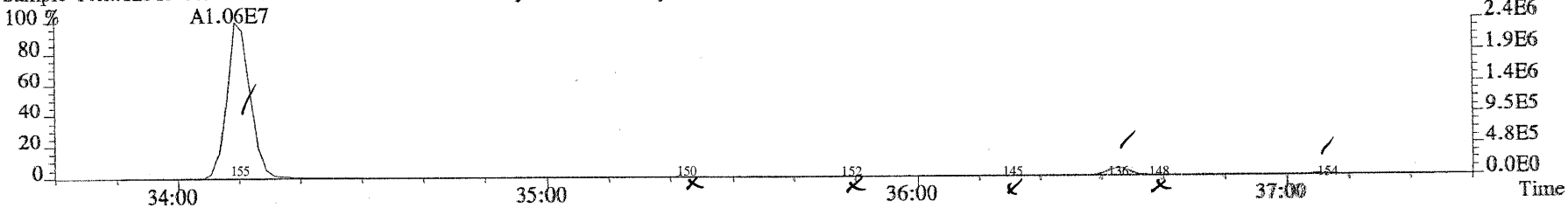
File:07AUG19Z #1-181 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



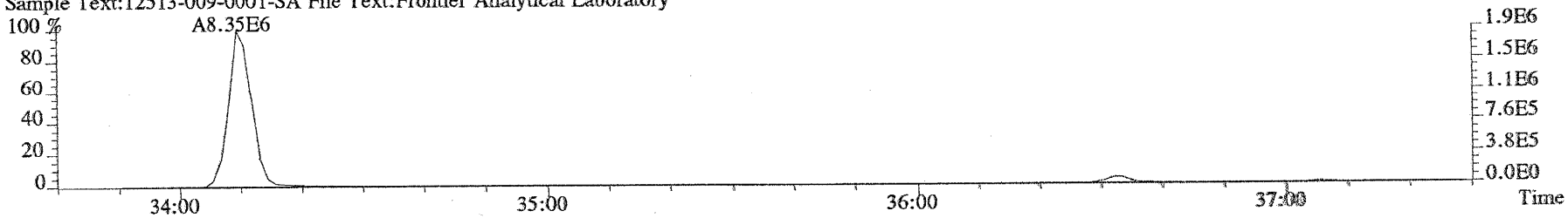
File:07AUG19Z #1-181 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



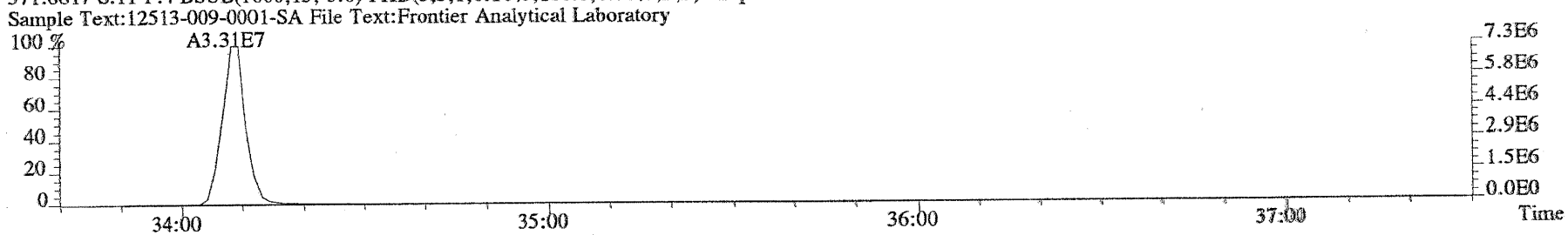
File:07AUG19Z #1-181 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-181 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory

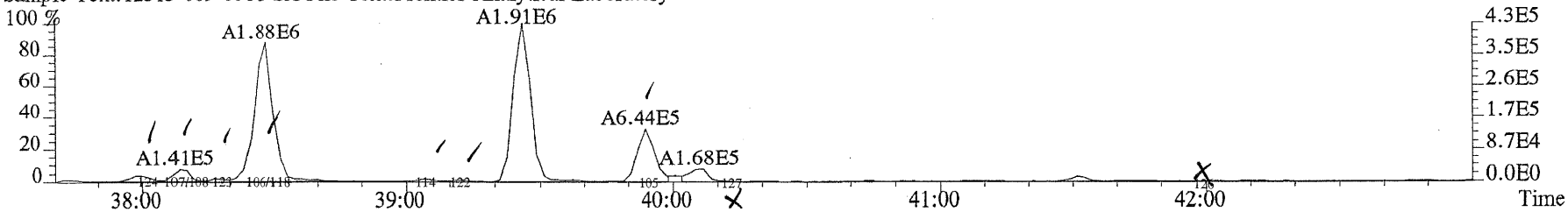


File:07AUG19Z #1-181 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory

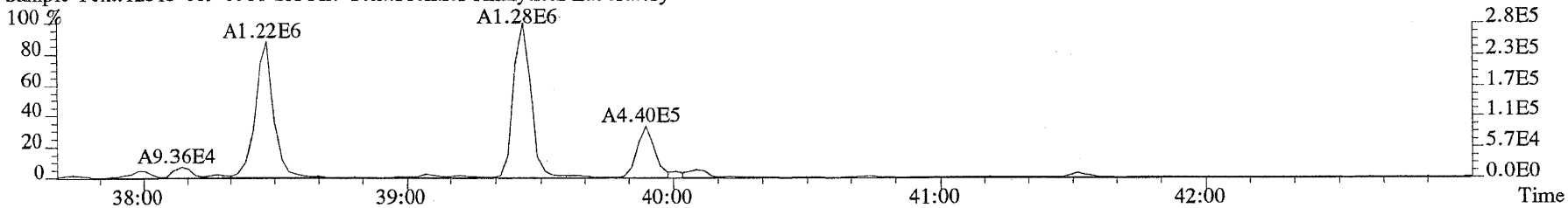


File:07AUG19Z #1-181 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory

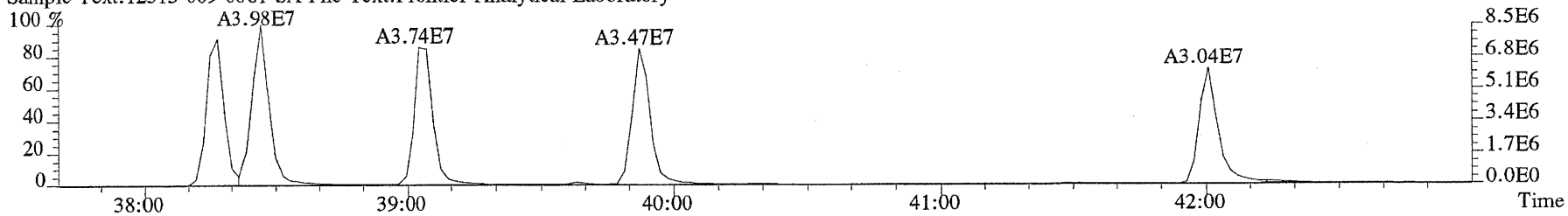
File:07AUG19Z #1-405 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



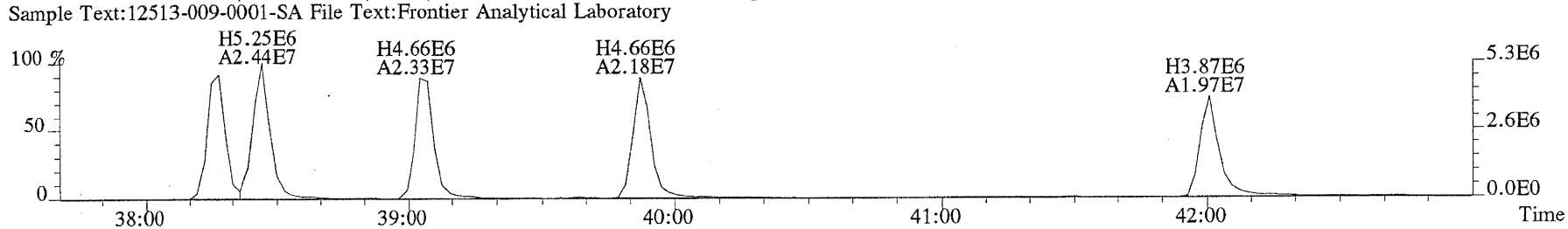
File:07AUG19Z #1-405 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



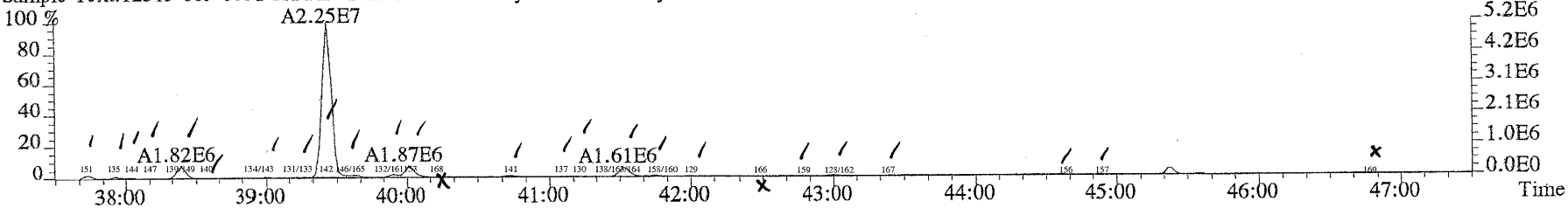
File:07AUG19Z #1-405 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



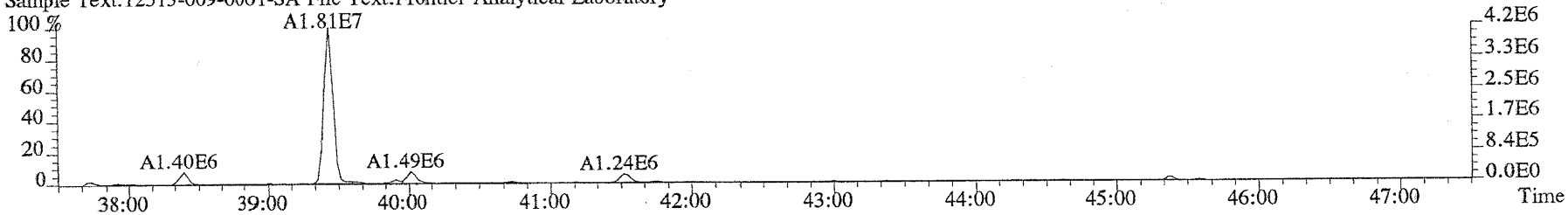
File:07AUG19Z #1-405 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



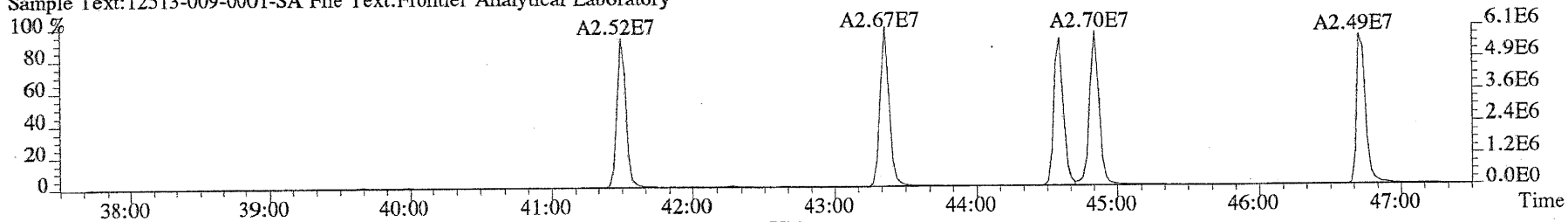
File:07AUG19Z #1-405 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



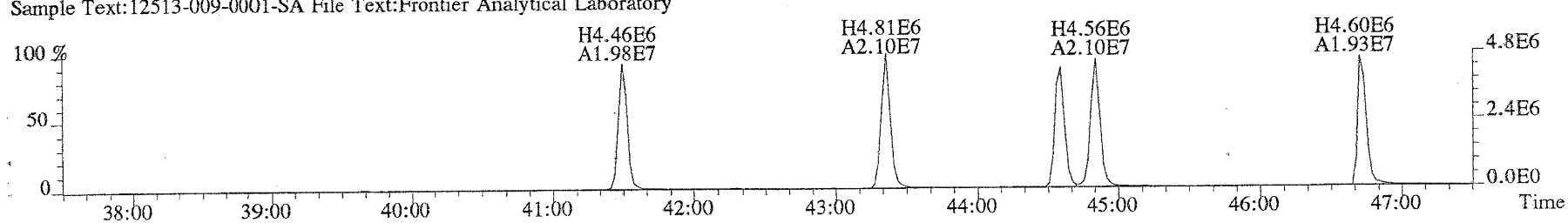
File:07AUG19Z #1-405 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



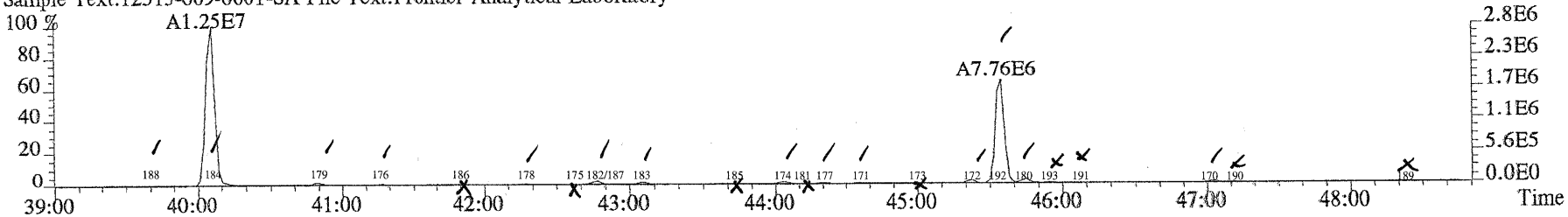
File:07AUG19Z #1-405 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



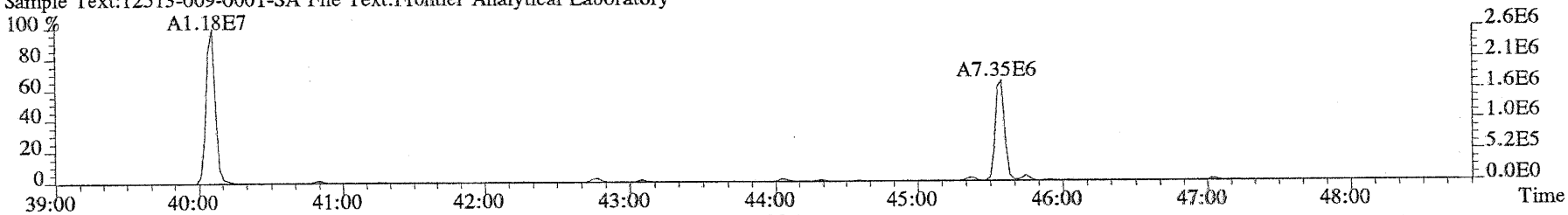
File:07AUG19Z #1-405 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



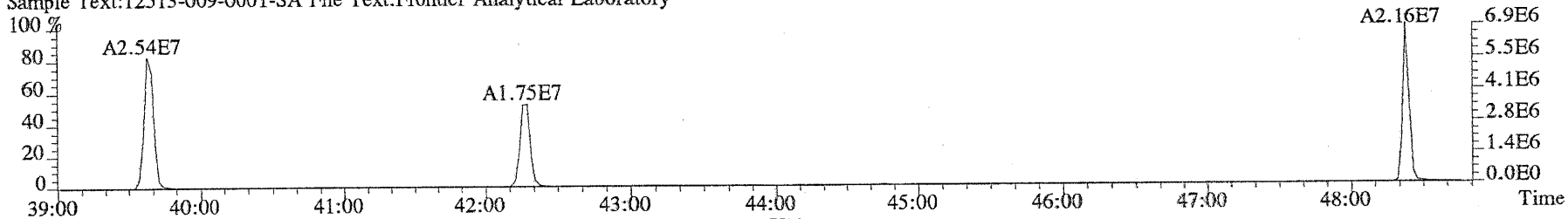
File:07AUG19Z #1-405 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



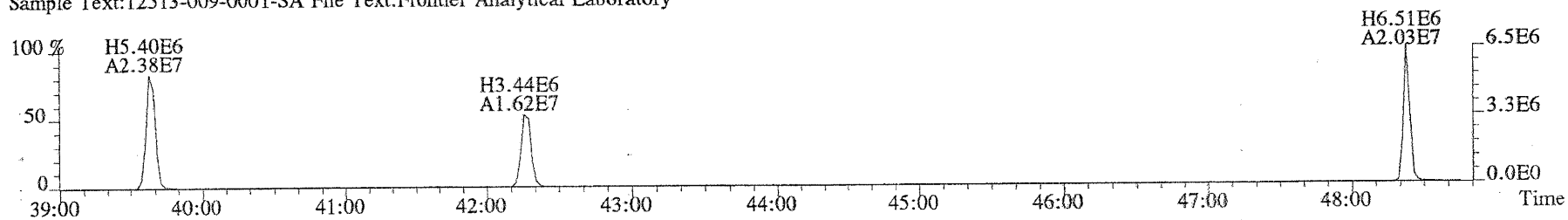
File:07AUG19Z #1-405 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



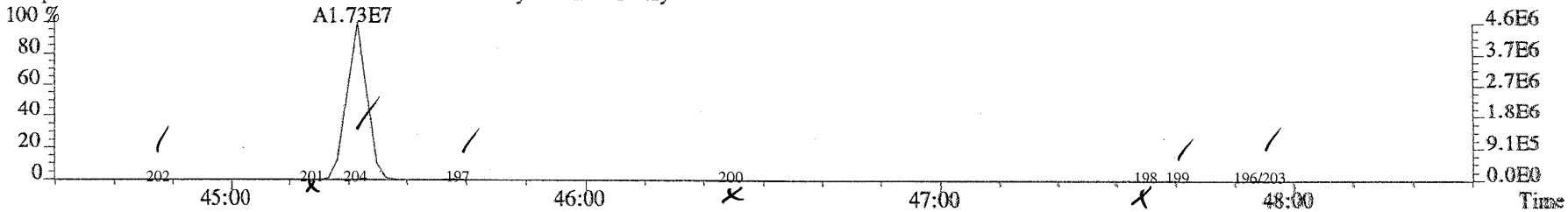
File:07AUG19Z #1-405 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



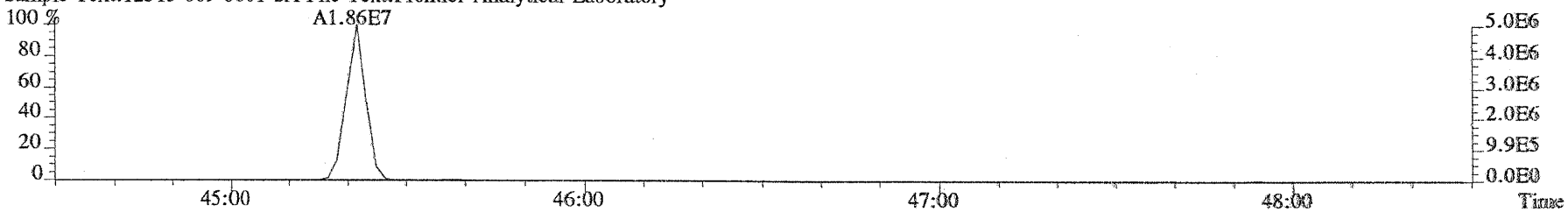
File:07AUG19Z #1-405 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



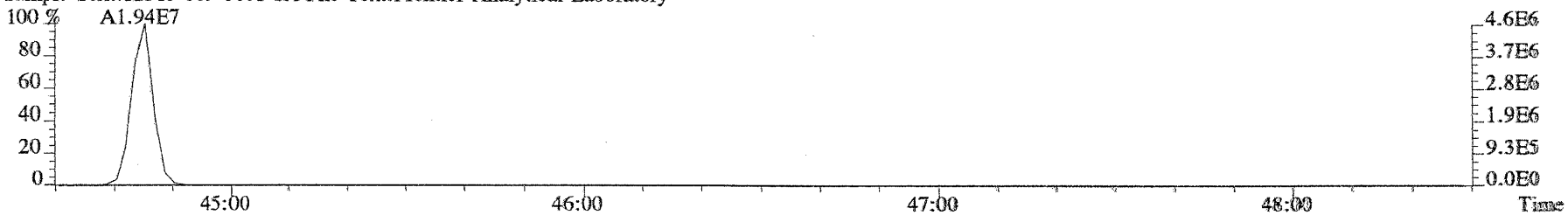
File:07AUG19Z #1-405 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



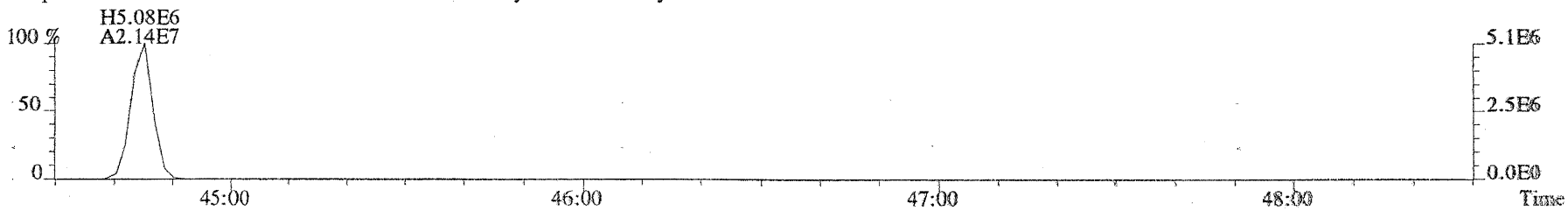
File:07AUG19Z #1-405 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



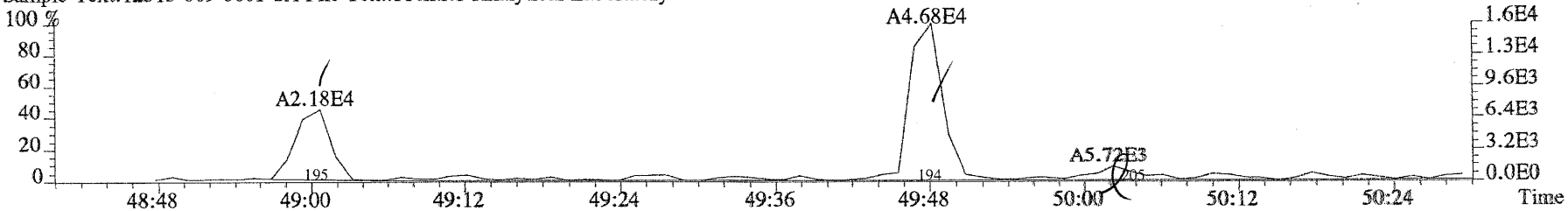
File:07AUG19Z #1-405 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



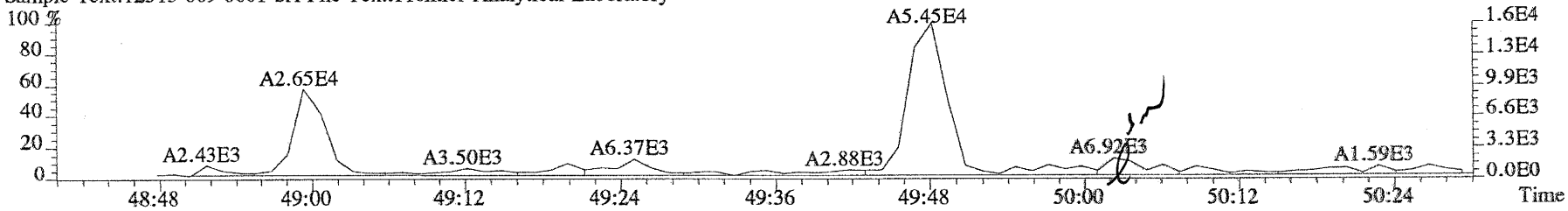
File:07AUG19Z #1-405 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



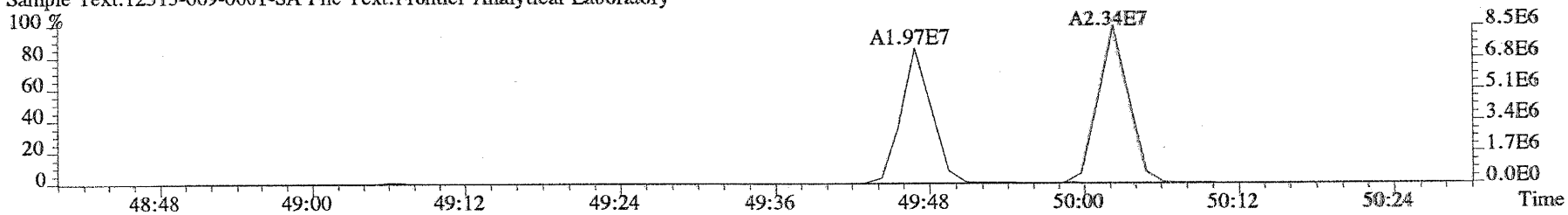
File:07AUG19Z #1-315 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



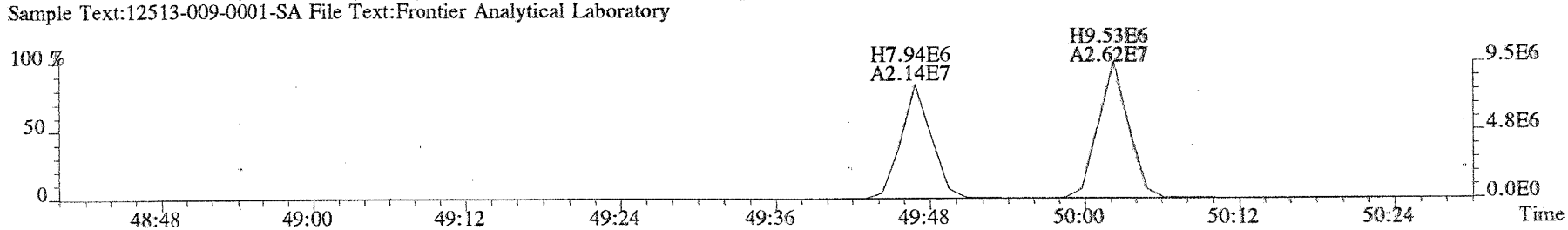
File:07AUG19Z #1-315 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



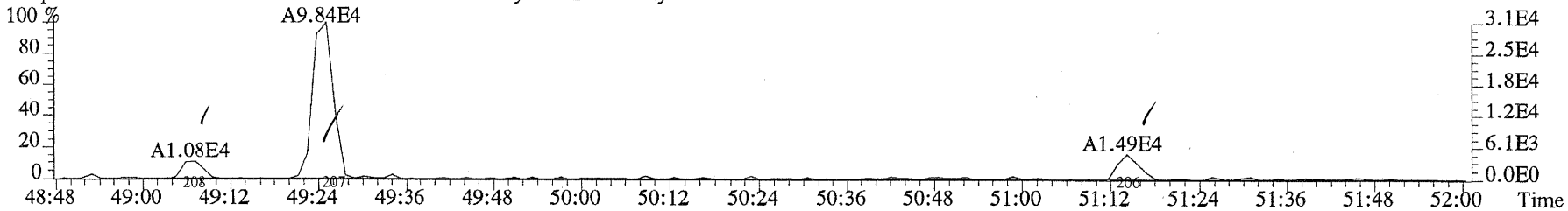
File:07AUG19Z #1-315 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



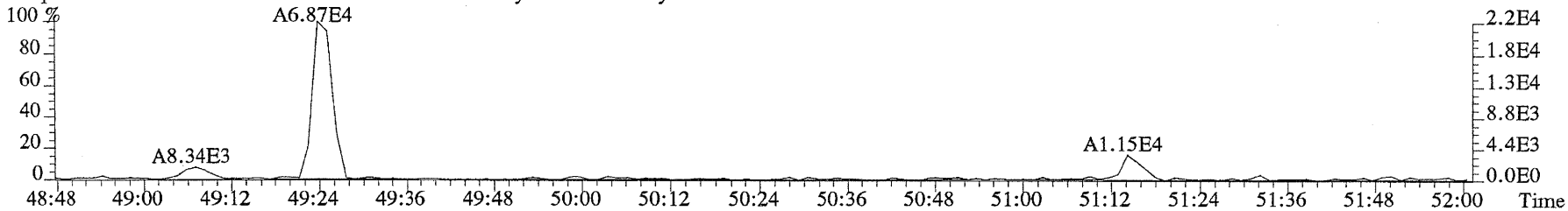
File:07AUG19Z #1-315 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



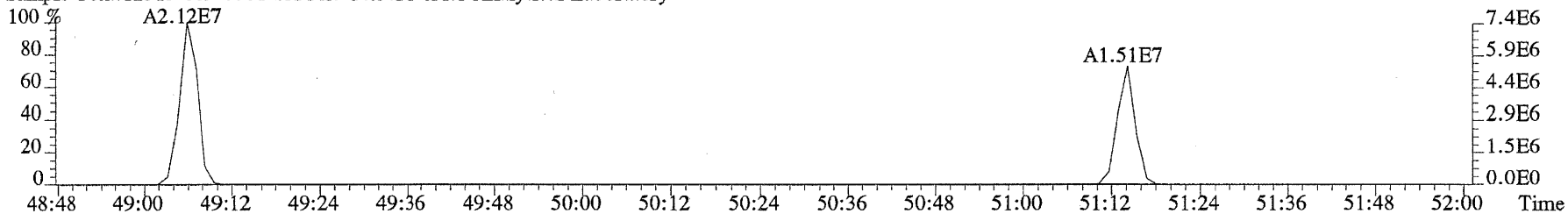
File:07AUG19Z #1-315 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



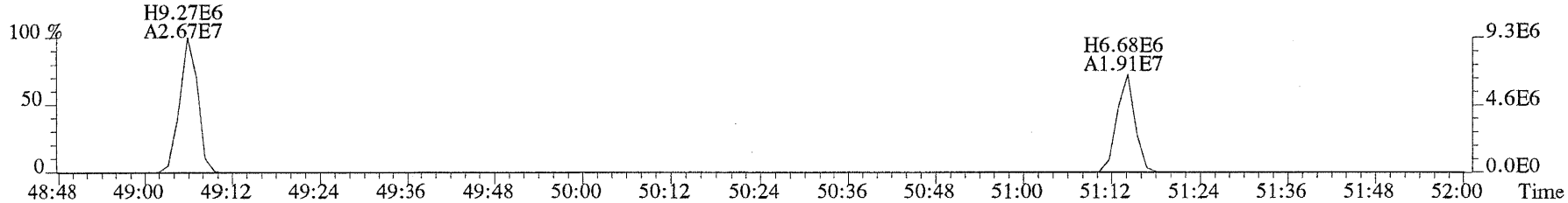
File:07AUG19Z #1-315 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



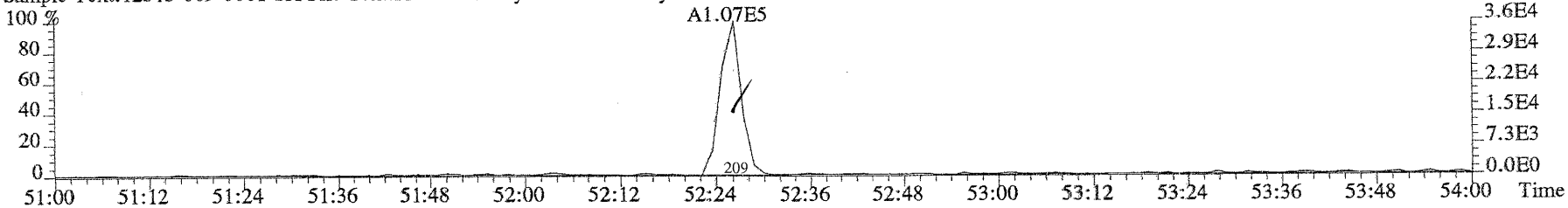
File:07AUG19Z #1-315 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



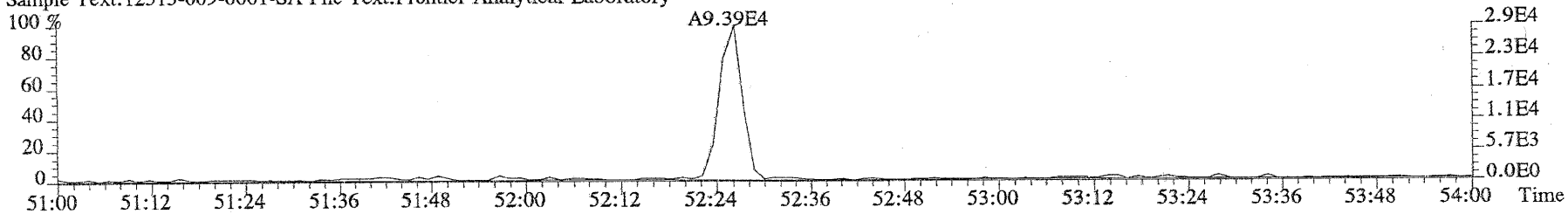
File:07AUG19Z #1-315 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



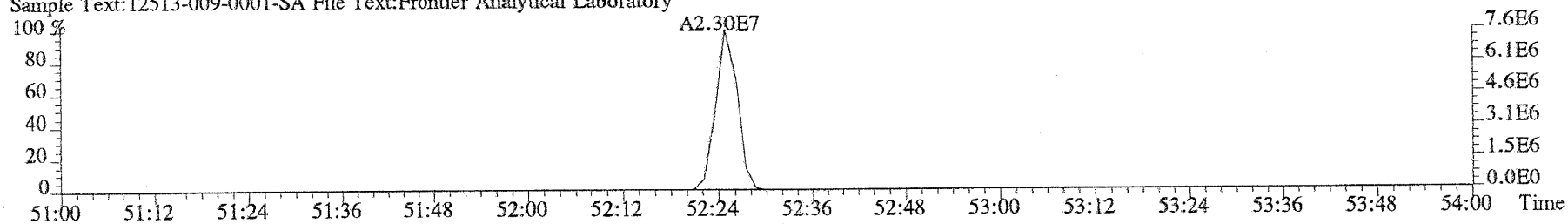
File:07AUG19Z #1-315 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



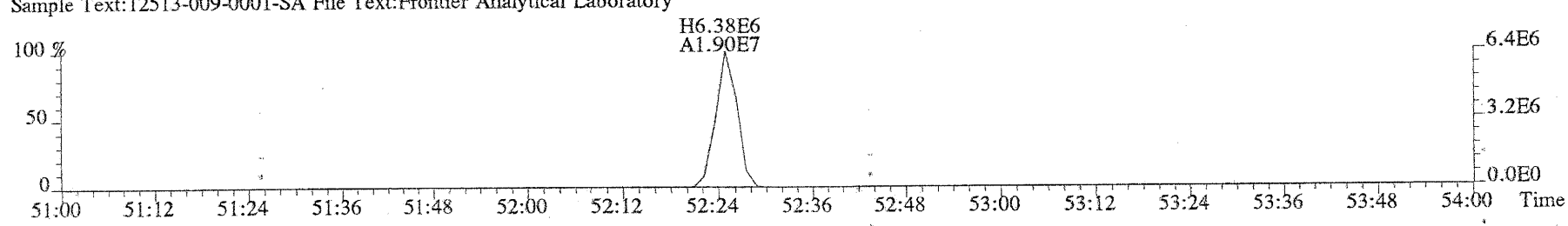
File:07AUG19Z #1-315 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-315 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-315 Acq: 7-AUG-2019 16:08:01 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-009-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12513-010-0001-SA Filename: 07AUG19Z Sam:12 Acquired: 7-AUG-19 17:06:22 ICal: DAILY209FAL4-8-7-19
Client ID: LDW-Y2-SC-ENR-CE-SSWI ConCal: ST080719Z1 EndCal: ST080719Z2
Results: 12513 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	2.41e+05	2.96 y	14:32	1.11	23.6		-	-	*	
13C-PCB-1	9.22e+07	3.23 y	14:31	0.91	8390					83.9
PCB-2	*	* n	NotFnd	1.13	*		1760	1290	2.37	
PCB-3	8.24e+04	3.05 y	16:57	1.15	7.81	J	-	-	*	
13C-PCB-3	9.14e+07	3.24 y	16:57	0.89	8580					85.8
PCB-4	4.43e+06	1.53 y	18:11	1.16	517		-	-	*	
PCB-10	4.56e+05	1.66 y	18:16	1.28	39.1		-	-	*	
13C-PCB-4	7.36e+07	1.60 y	18:10	0.65	9480					94.8
PCB-9	8.48e+05	1.43 y	19:52	1.40	66.5		-	-	*	
PCB-7	5.93e+05	1.53 y	19:54	1.36	47.7		-	-	*	
PCB-6	3.30e+06	1.50 y	20:31	1.38	262		-	-	*	
PCB-8	1.48e+07	1.48 y	20:52	1.34	1210		-	-	*	
PCB-5	*	* n	NotFnd	1.34	*		1080	9990	8.99	
PCB-14	8.77e+06	1.39 y	21:56	1.32	728		-	-	*	
PCB-11	8.85e+05	1.39 y	23:04	1.20	80.6		-	-	*	
PCB-13	2.54e+05	1.50 y	23:24	1.18	23.7		-	-	*	
PCB-12	3.53e+05	1.39 y	23:26	1.23	31.4		-	-	*	
PCB-15	4.97e+06	1.41 y	23:43	1.08	424		-	-	*	
13C-PCB-15	1.09e+08	1.56 y	23:42	0.93	9690					96.9
PCB-19	3.24e+06	1.04 y	22:04	1.19	500		-	-	*	
PCB-30	*	* n	NotFnd	1.77	*		2080	552	2.47	
PCB-18	2.12e+07	1.07 y	23:37	1.18	3300		-	-	*	
PCB-17	9.19e+06	1.09 y	23:47	1.29	1300		-	-	*	
PCB-27	1.66e+06	0.89 y	24:18	1.74	175		-	-	*	
PCB-24	1.74e+06	0.98 y	24:19	1.64	195		-	-	*	
PCB-16	7.32e+06	1.05 y	24:47	1.36	986		-	-	*	
PCB-32	9.13e+06	1.08 y	24:48	1.53	1090		-	-	*	
13C-PCB-19	5.46e+07	1.09 y	22:02	0.51	8960					89.6
13C-PCB-9	1.20e+08	1.56 y	19:51	-	123					
PCB-34	1.51e+05	1.02 y	25:34	1.14	14.8	J	-	-	*	
PCB-23	5.17e+04	1.06 y	25:39	1.35	4.24	J	-	-	*	
PCB-29	2.36e+05	1.08 y	25:53	1.30	20.1		-	-	*	
PCB-26	5.09e+06	1.01 y	26:05	1.24	454		-	-	*	
PCB-25	2.91e+06	1.02 y	26:14	1.22	264		-	-	*	
PCB-31	2.38e+07	1.03 y	26:34	1.28	2070		-	-	*	
PCB-28	2.96e+07	1.08 y	26:41	1.42	2320		-	-	*	
PCB-20	1.66e+07	1.04 y	27:16	1.18	1560		-	-	*	Co-elute PCB 21/33
PCB-21	1.66e+07	1.04 y	27:16	1.18	1560		-	-	*	Co-elute PCB 20/33
PCB-33	1.66e+07	1.04 y	27:16	1.18	1560		-	-	*	Co-elute PCB 20/21
PCB-22	9.02e+06	1.00 y	27:40	1.23	812		-	-	*	
PCB-36	9.14e+06	1.09 y	28:17	1.18	861		-	-	*	
PCB-39	6.06e+04	1.14 y	28:42	1.17	5.77	J	-	-	*	
PCB-38	1.01e+05	1.07 y	29:25	1.17	9.57	J	-	-	*	
PCB-35	2.66e+05	1.14 y	29:59	1.03	28.6		-	-	*	
PCB-37	3.98e+06	1.03 y	30:22	1.09	407		-	-	*	
13C-PCB-37	9.00e+07	1.11 y	30:21	1.32	10300					103

PCB-54	1.14e+05	0.76	y	25:36	1.19	13.0	J	-	-	*	
PCB-50	1.05e+05	0.81	y	26:42	0.93	15.3	J	-	-	*	
PCB-53	2.90e+06	0.78	y	27:19	0.92	428		-	-	*	
PCB-51	9.40e+05	0.80	y	27:38	0.96	133		-	-	*	
PCB-45	2.60e+06	0.82	y	28:02	0.79	447		-	-	*	
PCB-46	1.07e+06	0.79	y	28:29	0.75	195		-	-	*	
PCB-52	1.05e+07	0.80	y	28:56	0.93	1520		-	-	*	Co-elute PCB 69
PCB-69	1.05e+07	0.80	y	28:56	0.93	1520		-	-	*	Co-elute PCB 52
PCB-73	3.11e+05	0.73	y	29:02	1.15	36.9		-	-	*	
PCB-43	7.37e+06	0.82	y	29:14	0.81	1240		-	-	*	Co-elute PCB 49
PCB-49	7.37e+06	0.82	y	29:14	0.81	1240		-	-	*	Co-elute PCB 43
PCB-47	2.61e+06	0.84	y	29:25	0.86	412		-	-	*	
PCB-48	2.78e+06	0.80	y	29:31	1.04	364		-	-	*	Co-elute PCB 75
PCB-75	2.78e+06	0.80	y	29:31	1.04	364		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.05	*		1050	1500	3.34	
PCB-62	*	*	n	NotFnd	1.09	*		1050	1500	3.22	
PCB-44	6.89e+06	0.80	y	30:09	0.69	1360		-	-	*	
PCB-42	3.75e+06	0.84	y	30:23	0.90	567		-	-	*	Co-elute PCB 59
PCB-59	3.75e+06	0.84	y	30:23	0.90	567		-	-	*	Co-elute PCB 42
PCB-72	8.61e+06	0.83	y	30:56	0.96	1220		-	-	*	Co-elute PCB 41/71/64
PCB-41	8.61e+06	0.83	y	30:56	0.96	1220		-	-	*	Co-elute PCB 72/71/64
PCB-71	8.61e+06	0.83	y	30:56	0.96	1220		-	-	*	Co-elute PCB 72/41/64
PCB-64	8.61e+06	0.83	y	30:56	0.96	1220		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.83e+05	0.73	y	31:11	1.11	22.4		-	-	*	
PCB-40	1.38e+06	0.75	y	31:23	0.60	311		-	-	*	
PCB-57	7.19e+04	0.71	y	31:43	1.00	9.75	J	-	-	*	
PCB-67	3.64e+04	0.86	y	32:06	0.94	5.24	J	-	-	*	
PCB-58	*	*	n	NotFnd	1.06	*		1050	1500	3.32	
PCB-63	2.97e+05	0.87	y	32:17	1.00	40.4		-	-	*	
PCB-74	3.43e+06	0.81	y	32:33	0.97	478		-	-	*	
PCB-61	7.14e+06	0.81	y	32:45	0.93	1040		-	-	*	Co-elute PCB 70
PCB-70	7.14e+06	0.81	y	32:45	0.93	1040		-	-	*	Co-elute PCB 61
PCB-76	7.06e+06	0.82	y	32:57	1.02	936		-	-	*	Co-elute PCB 66
PCB-66	7.06e+06	0.82	y	32:57	1.02	936		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.20	*		1050	1500	2.92	
PCB-55	5.64e+05	0.86	y	33:28	1.03	74.5		-	-	*	
13C-PCB-54	7.37e+07	0.82	y	25:35	1.26	8870					88.7
PCB-104	1.65e+07	1.56	y	30:02	1.08	2370		-	-	*	
PCB-96	1.01e+05	1.32	y	31:13	0.98	15.9	J	-	-	*	
PCB-103	1.31e+05	1.66	y	31:43	0.77	26.2		-	-	*	
PCB-100	9.30e+04	1.50	y	32:03	0.79	18.3	J	-	-	*	
PCB-94	3.69e+04	1.54	y	32:30	0.64	8.90	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.65	*		316	472	1.92	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.65	*		316	472	1.92	Co-elute PCB 98
PCB-95	4.94e+06	1.59	y	33:01	0.69	1110	-	-	472	1.08	
PCB-93	*	*	n	NotFnd	0.69	*		316	472	1.81	
PCB-88	*	*	n	NotFnd	0.72	*		316	472	1.72	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.72	*		316	472	1.72	Co-elute PCB 88
PCB-121	2.56e+07	1.57	y	33:28	0.87	4520		-	-	*	
13C-PCB-104	6.48e+07	1.61	y	29:59	1.00	9740					97.4
13C-PCB-28	1.18e+08	1.05	y	26:39	1.67	10700					107
13C-PCB-52	6.62e+07	0.82	y	28:55	-	134					

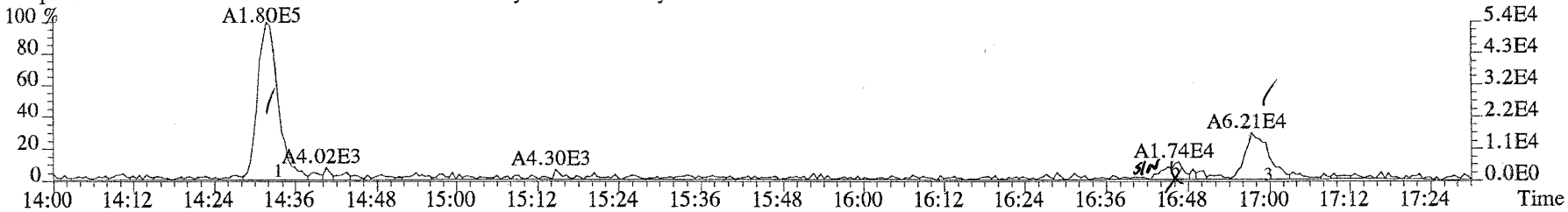
PCB-56	4.54e+06	0.75	y	33:55	1.02	628		-	-	*	Co-elute PCB 60
PCB-60	4.54e+06	0.75	y	33:55	1.02	628		-	-	*	Co-elute PCB 56
PCB-79	8.49e+04	0.84	y	34:56	1.16	10.3	J	-	-	*	
PCB-78	2.01e+07	0.78	y	35:37	1.11	2550		-	-	*	
PCB-81	2.82e+05	0.68	y	36:08	1.17	33.3		-	-	*	
13C-PCB-81	7.26e+07	0.80	y	36:06	1.41	10500					105
PCB-77	4.86e+05	0.74	y	36:41	1.00	70.4		-	-	*	
13C-PCB-77	6.92e+07	0.82	y	36:40	1.45	9710					97.1
PCB-155	2.42e+07	1.26	y	34:11	1.01	4000		-	-	*	
PCB-150	*	*	n	NotFnd	0.98	*		484	344	1.51	
PCB-152	*	*	n	NotFnd	0.87	*		484	344	1.70	
PCB-145	*	*	n	NotFnd	0.96	*		484	344	1.54	
PCB-136	8.57e+05	1.29	y	36:33	0.94	153		-	-	*	
PCB-148	*	*	n	NotFnd	0.63	*		484	344	2.33	
PCB-154	1.30e+05	1.12	y	37:06	0.79	27.6		-	-	*	
13C-PCB-155	5.97e+07	1.30	y	34:08	1.27	9630					96.3
13C-PCB-111	5.60e+07	1.61	y	36:13	1.24	9250					92.5
13C-PCB-101	4.90e+07	1.63	y	34:36	-	131					
PCB-84	2.29e+06	1.57	y	34:16	0.83	441		-	-	*	Co-elute PCB 92
PCB-92	2.29e+06	1.57	y	34:16	0.83	441		-	-	*	Co-elute PCB 84
PCB-89	8.85e+04	1.57	y	34:26	0.81	17.3	J	-	-	*	
PCB-90	4.94e+06	1.59	y	34:37	0.91	864		-	-	*	Co-elute PCB 101
PCB-101	4.94e+06	1.59	y	34:37	0.91	864		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.04	*		1410	1280	4.68	
PCB-99	2.32e+06	1.58	y	34:56	1.00	367		-	-	*	
PCB-119	1.76e+05	1.56	y	35:21	1.15	24.2		-	-	*	
PCB-83	2.17e+05	1.49	y	35:31	0.91	37.9		-	-	*	Co-elute PCB 112
PCB-112	2.17e+05	1.49	y	35:31	0.91	37.9		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.09	*		1410	1280	4.50	
PCB-97	1.23e+06	1.55	y	35:50	0.75	261		-	-	*	
PCB-86	5.40e+04	1.36	y	36:01	0.83	10.3	J	-	-	*	
PCB-125	1.82e+06	1.58	y	36:07	0.99	292		-	-	*	Co-elute PCB 87/117
PCB-87	1.82e+06	1.58	y	36:07	0.99	292		-	-	*	Co-elute PCB 125/117
PCB-117	1.82e+06	1.58	y	36:07	0.99	292		-	-	*	Co-elute PCB 125/87
PCB-111	1.27e+05	1.61	y	36:16	1.14	17.7	J	-	-	*	Co-elute PCB 115
PCB-115	1.27e+05	1.61	y	36:16	1.14	17.7	J	-	-	*	Co-elute PCB 111
PCB-85	6.82e+05	1.64	y	36:22	0.99	110		-	-	*	Co-elute PCB 116
PCB-116	6.82e+05	1.64	y	36:22	0.99	110		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.18	*		1410	1280	4.13	
PCB-110	5.28e+06	1.61	y	36:45	1.13	744		-	-	*	
PCB-82	3.51e+05	1.47	y	37:20	0.66	84.7		-	-	*	
PCB-124	1.84e+05	1.57	y	38:00	1.13	25.9		-	-	*	
PCB-108	2.49e+05	1.48	y	38:08	1.08	36.6		-	-	*	Co-elute PCB 107
PCB-107	2.49e+05	1.48	y	38:08	1.08	36.6		-	-	*	Co-elute PCB 108
PCB-123	7.38e+04	1.58	y	38:18	1.02	11.9	J	-	-	*	
13C-PCB-123	6.12e+07	1.58	y	38:17	1.21	10400					104
PCB-118	3.41e+06	1.55	y	38:28	1.04	494		-	-	*	Co-elute PCB 106
PCB-106	3.41e+06	1.55	y	38:28	1.04	494		-	-	*	Co-elute PCB 118
13C-PCB-118	6.65e+07	1.59	y	38:27	1.36	10100					101
PCB-114	1.09e+05	1.60	y	39:04	1.13	15.2	J	-	-	*	
13C-PCB-114	6.33e+07	1.61	y	39:04	1.26	10400					104
PCB-122	*	*	n	NotFnd	1.04	*		1180	1220	4.18	
PCB-105	1.13e+06	1.50	y	39:54	1.12	165		-	-	*	
13C-PCB-105	6.12e+07	1.60	y	39:52	1.26	10000					100

PCB-127	*	*	n	NotFnd	1.03	*		1180	1220	4.24	
PCB-126	*	*	n	NotFnd	1.08	*		1180	1220	5.00	
13C-PCB-126	5.58e+07	1.55	y	42:01	1.17	9820					98.2
PCB-151	9.72e+05	1.31	y	37:44	0.88	224		-	-	*	
PCB-135	5.38e+05	1.30	y	37:55	0.83	131		-	-	*	
PCB-144	2.39e+05	1.13	y	38:02	1.01	47.5		-	-	*	
PCB-147	7.85e+04	1.18	y	38:10	0.93	16.9	J	-	-	*	
PCB-139	3.38e+06	1.28	y	38:23	0.99	689		-	-	*	Co-elute PCB 149
PCB-149	3.38e+06	1.28	y	38:23	0.99	689		-	-	*	Co-elute PCB 139
PCB-140	5.30e+04	1.24	y	38:35	0.93	11.5	J	-	-	*	
PCB-143	1.89e+05	1.11	y	39:01	0.77	49.6		-	-	*	Co-elute PCB 134
PCB-134	1.89e+05	1.11	y	39:01	0.77	49.6		-	-	*	Co-elute PCB 143
PCB-131	7.34e+04	1.28	y	39:16	0.78	19.0	J	-	-	*	Co-elute PCB 133
PCB-133	7.34e+04	1.28	y	39:16	0.78	19.0	J	-	-	*	Co-elute PCB 131
PCB-142	5.01e+07	1.26	y	39:26	0.77	13100		-	-	*	
PCB-165	7.27e+05	1.28	y	39:37	1.04	141		-	-	*	Co-elute PCB 146
PCB-146	7.27e+05	1.28	y	39:37	1.04	141		-	-	*	Co-elute PCB 165
PCB-161	9.86e+05	1.36	y	39:54	0.95	209		-	-	*	Co-elute PCB 132
PCB-132	9.86e+05	1.36	y	39:54	0.95	209		-	-	*	Co-elute PCB 161
PCB-153	3.63e+06	1.28	y	40:00	1.08	676		-	-	*	
PCB-168	*	*	n	NotFnd	1.17	*		1020	924	3.71	
PCB-141	4.89e+05	1.20	y	40:43	0.85	116		-	-	*	
PCB-137	1.03e+05	1.11	y	41:06	0.77	26.9		-	-	*	
PCB-130	1.50e+05	1.31	y	41:11	0.82	37.0		-	-	*	
PCB-138	3.11e+06	1.24	y	41:31	1.04	600		-	-	*	Co-elute PCB 163/164
PCB-163	3.11e+06	1.24	y	41:31	1.04	600		-	-	*	Co-elute PCB 138/164
PCB-164	3.11e+06	1.24	y	41:31	1.04	600		-	-	*	Co-elute PCB 138/163
PCB-158	3.30e+05	1.14	y	41:44	1.16	57.4		-	-	*	Co-elute PCB 160
PCB-160	3.30e+05	1.14	y	41:44	1.16	57.4		-	-	*	Co-elute PCB 158
PCB-129	9.59e+04	1.16	y	41:59	0.73	26.6		-	-	*	
PCB-166	*	*	n	NotFnd	1.09	*		1020	924	3.96	
PCB-159	7.97e+04	1.09	y	42:47	1.20	13.3	J	-	-	*	
PCB-128	3.36e+05	1.29	y	43:00	0.94	71.8		-	-	*	Co-elute PCB 162
PCB-162	3.36e+05	1.29	y	43:00	0.94	71.8		-	-	*	Co-elute PCB 128
PCB-167	9.96e+04	1.29	y	43:23	1.07	18.6	J	-	-	*	
13C-PCB-167	5.00e+07	1.27	y	43:21	1.16	8900					89.0
PCB-156	2.19e+05	1.23	y	44:37	1.14	40.4		-	-	*	
13C-PCB-156	4.76e+07	1.32	y	44:35	1.16	8460					84.6
PCB-157	5.85e+04	1.25	y	44:50	1.08	10.6	J	-	-	*	
13C-PCB-157	5.11e+07	1.32	y	44:50	1.17	9020					90.2
PCB-169	*	*	n	NotFnd	1.05	*		1020	924	3.94	
13C-PCB-169	5.00e+07	1.29	y	46:42	1.16	8880					88.8

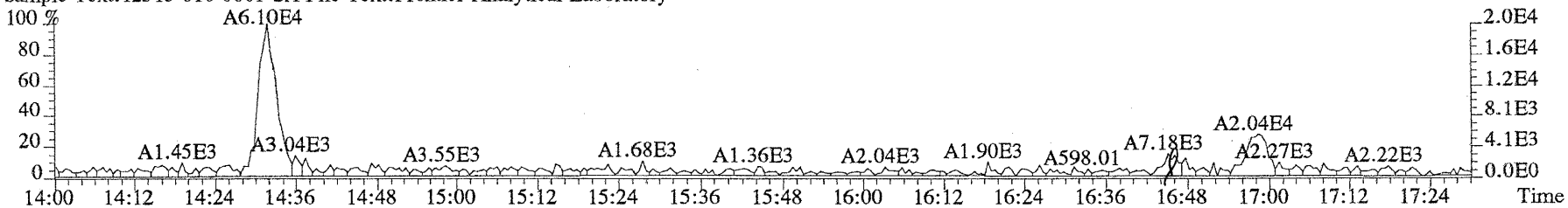
PCB-188	4.39e+04	0.99	y	39:39	1.09	8.07	J	-	-	*	
13C-PCB-188	5.00e+07	1.05	y	39:39	1.15	8990					89.9
PCB-184	2.85e+07	1.06	y	40:05	1.21	4690		-	-	*	
PCB-179	4.04e+05	1.08	y	40:50	1.15	70.0		-	-	*	
PCB-176	1.28e+05	1.13	y	41:16	1.11	23.0		-	-	*	
PCB-186	*	*	n	NotFnd	1.12	*		964	484	2.38	
PCB-178	1.20e+05	0.96	y	42:19	0.77	30.9		-	-	*	
PCB-175	*	*	n	NotFnd	0.80	*		964	484	3.35	
PCB-187	6.67e+05	1.05	y	42:47	0.89	149		-	-	*	Co-elute PCB 182
PCB-182	6.67e+05	1.05	y	42:47	0.89	149		-	-	*	Co-elute PCB 187
PCB-183	3.41e+05	1.16	y	43:05	0.86	78.4		-	-	*	
PCB-185	*	*	n	NotFnd	0.79	*		964	484	3.40	
PCB-174	4.42e+05	1.08	y	44:02	0.81	108		-	-	*	
PCB-181	*	*	n	NotFnd	0.78	*		964	484	3.45	
PCB-177	2.34e+05	1.14	y	44:19	0.73	63.8		-	-	*	
PCB-171	1.19e+05	1.17	y	44:35	0.80	29.6		-	-	*	
PCB-173	*	*	n	NotFnd	0.70	*		964	484	3.82	
PCB-172	5.20e+05	1.04	y	45:21	0.75	137		-	-	*	
PCB-192	1.82e+07	1.05	y	45:35	0.99	3660		-	-	*	
PCB-180	7.90e+04	1.00	y	45:54	0.77	20.4		-	-	*	
PCB-193	*	*	n	NotFnd	1.04	*		964	484	2.57	
PCB-191	*	*	n	NotFnd	1.04	*		964	484	2.58	
PCB-170	2.95e+05	1.04	y	47:02	0.78	75.6		-	-	*	
PCB-190	*	*	n	NotFnd	1.05	*		964	484	2.54	
PCB-189	*	*	n	NotFnd	1.12	*		964	484	1.89	
13C-PCB-189	5.07e+07	1.06	y	48:22	1.01	10300					103
PCB-202	4.36e+04	0.82	y	44:47	0.98	10.7	J	-	-	*	
PCB-201	*	*	n	NotFnd	1.07	*		256	572	2.02	
PCB-204	4.27e+07	0.90	y	45:21	1.04	9890		-	-	*	
PCB-197	2.53e+05	0.93	y	45:38	1.10	55.3		-	-	*	
PCB-200	*	*	n	NotFnd	1.06	*		256	572	2.04	
PCB-198	*	*	n	NotFnd	0.82	*		256	572	2.64	
PCB-199	1.27e+05	0.85	y	47:38	0.77	39.9		-	-	*	
PCB-203	1.39e+05	0.94	y	47:53	0.85	39.5		-	-	*	Co-elute PCB 196
PCB-196	1.39e+05	0.94	y	47:53	0.85	39.5		-	-	*	Co-elute PCB 203
13C-PCB-202	4.15e+07	0.90	y	44:45	0.96	8950					89.5
13C-PCB-178	3.39e+07	1.07	y	42:15	0.74	9450					94.5
13C-PCB-138	4.84e+07	1.29	y	41:29	-	133					
PCB-195	4.63e+04	1.01	y	48:59	0.77	10.8	J	-	-	*	
PCB-194	1.25e+05	0.84	y	49:48	0.82	27.3		-	-	*	
PCB-205	*	*	n	NotFnd	1.05	*		1000	1310	2.74	
13C-PCB-205	5.59e+07	0.91	y	50:02	1.30	8980					89.8
PCB-208	2.18e+04	1.14	y	49:07	1.00	4.24	J	-	-	*	
13C-PCB-208	5.15e+07	0.80	y	49:06	1.34	8040					80.4
PCB-207	2.25e+05	1.36	y	49:25	1.17	42.9		-	-	*	
PCB-206	3.11e+04	1.20	y	51:14	1.05	7.77	J	-	-	*	
13C-PCB-206	3.81e+07	0.81	y	51:14	0.95	8420					84.2
PCB-209	2.42e+05	1.25	y	52:26	1.11	48.2		-	-	*	
13C-PCB-209	4.52e+07	1.21	y	52:25	1.24	7660					76.6
13C-PCB-194	4.77e+07	0.91	y	49:47	-	148					

Analyst: [illegible] Date: 8/8/19

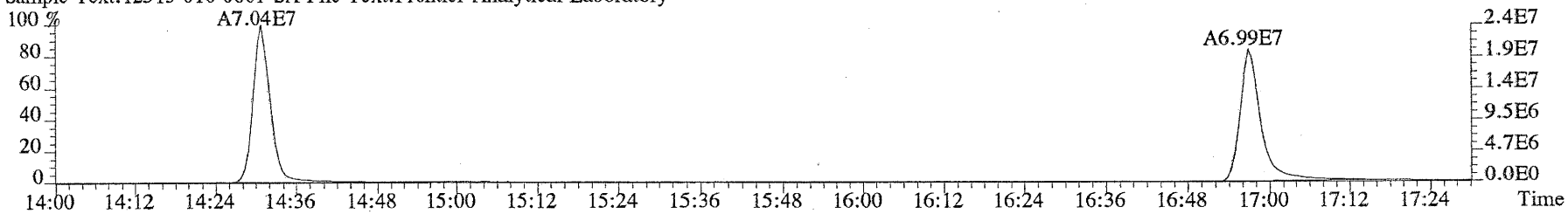
File:07AUG19Z #1-783 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



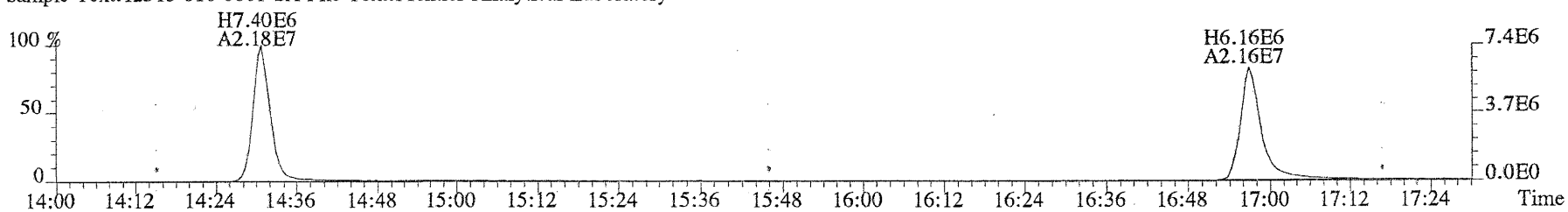
File:07AUG19Z #1-783 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



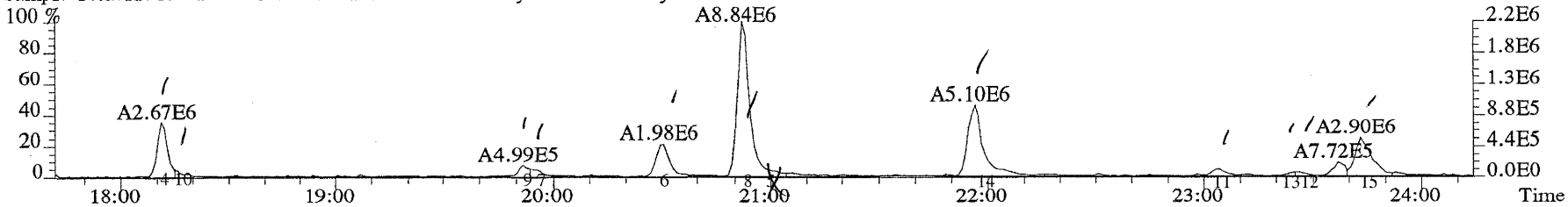
File:07AUG19Z #1-783 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



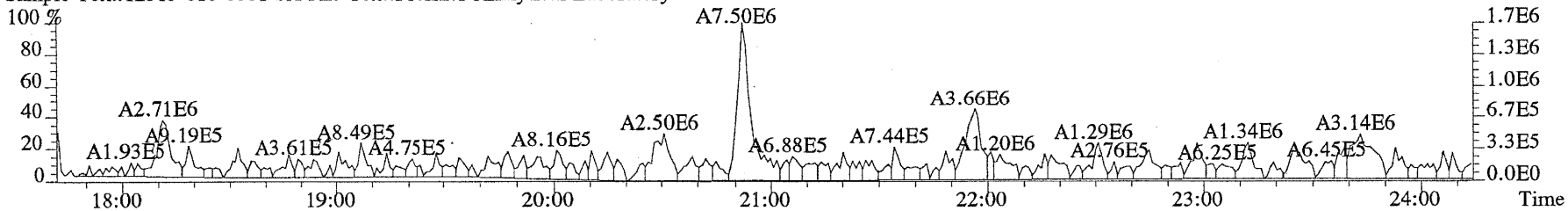
File:07AUG19Z #1-783 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



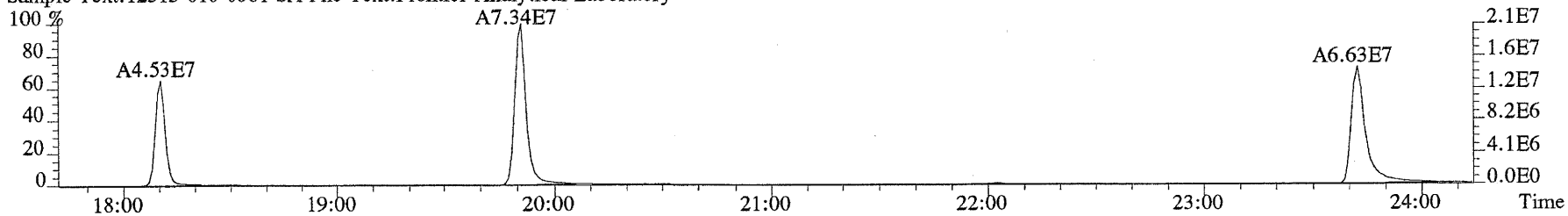
File:07AUG19Z #1-520 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



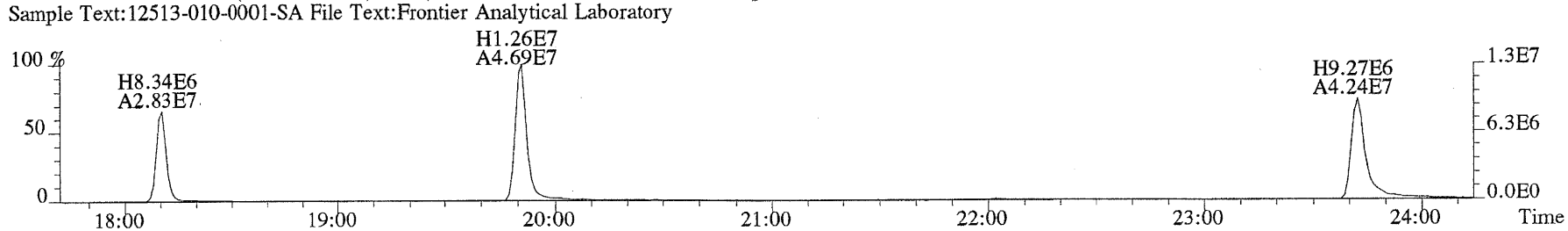
File:07AUG19Z #1-520 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



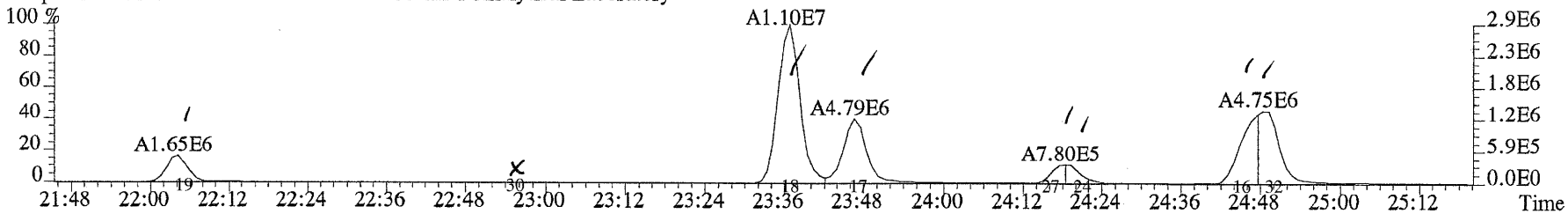
File:07AUG19Z #1-520 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



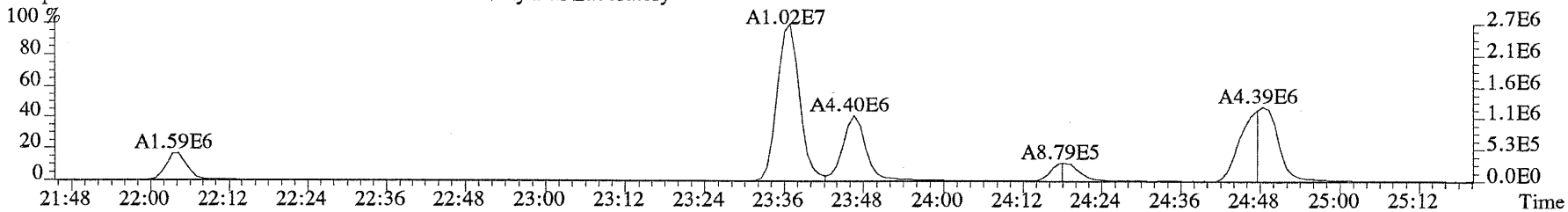
File:07AUG19Z #1-520 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



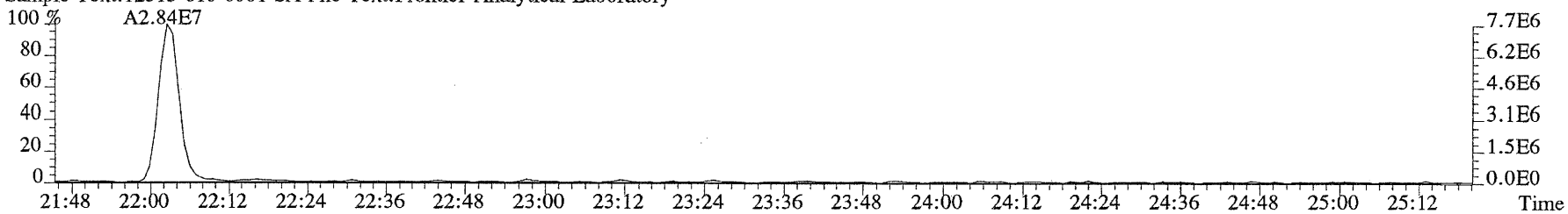
File:07AUG19Z #1-520 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



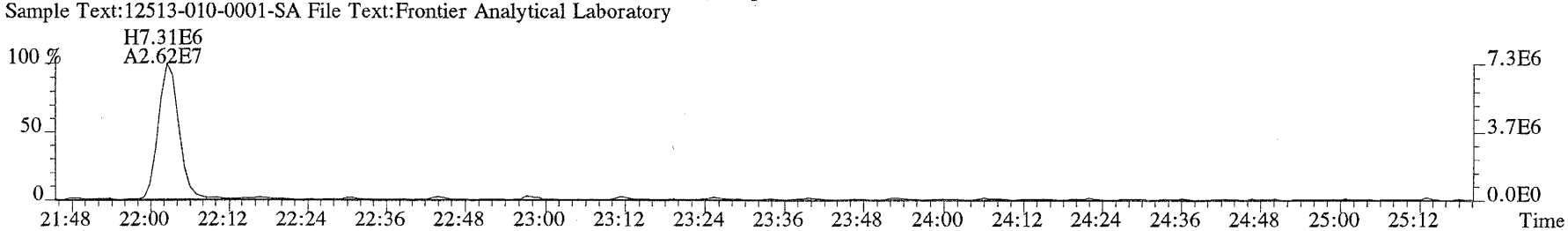
File:07AUG19Z #1-520 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



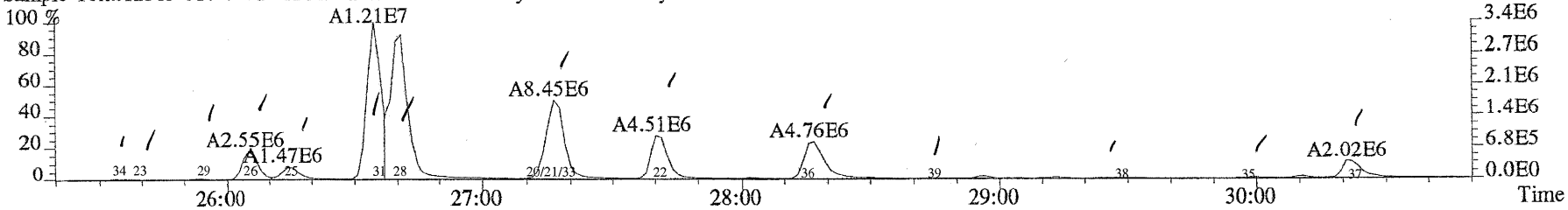
File:07AUG19Z #1-520 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



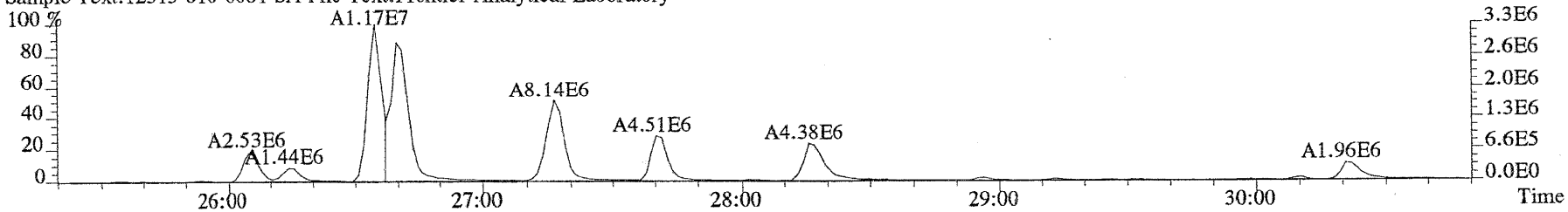
File:07AUG19Z #1-520 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



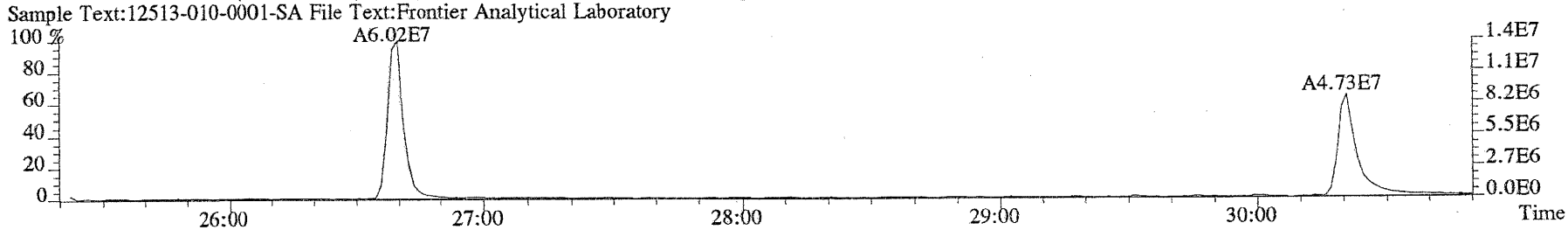
File:07AUG19Z #1-401 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



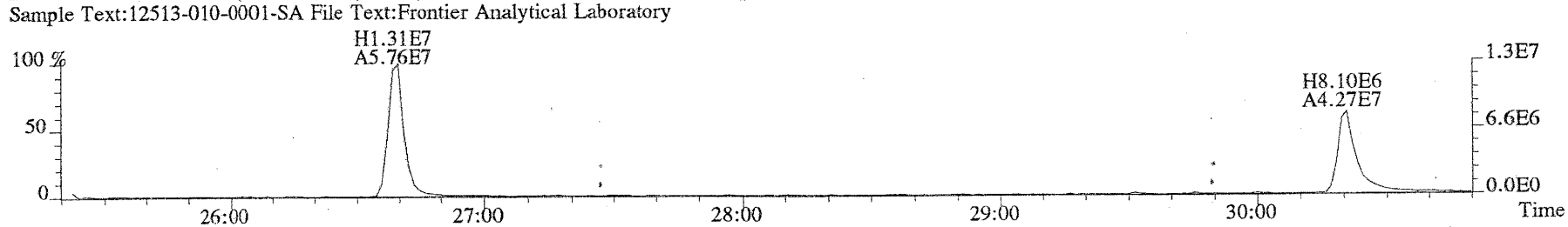
File:07AUG19Z #1-401 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



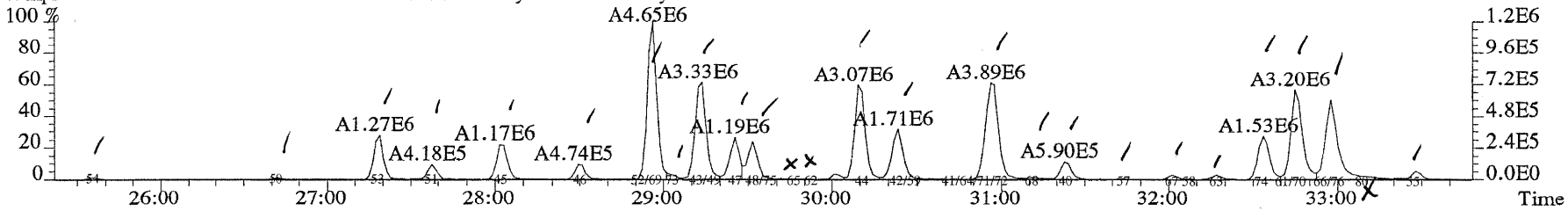
File:07AUG19Z #1-401 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



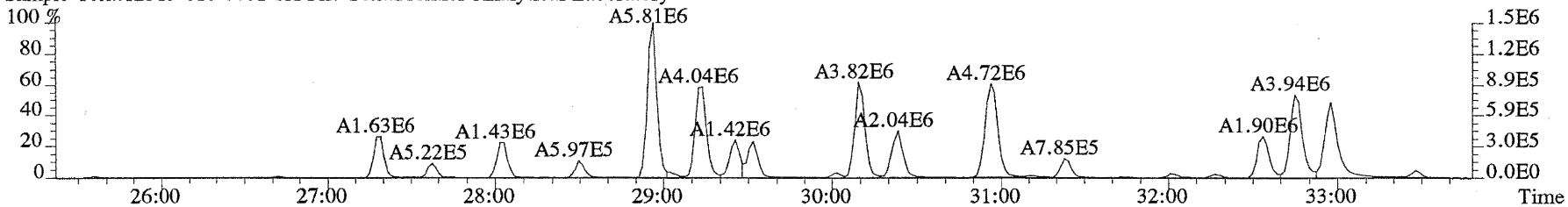
File:07AUG19Z #1-401 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



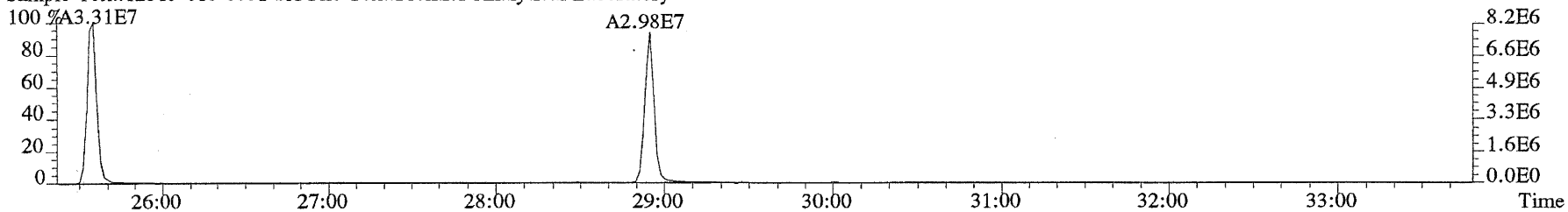
File:07AUG19Z #1-401 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



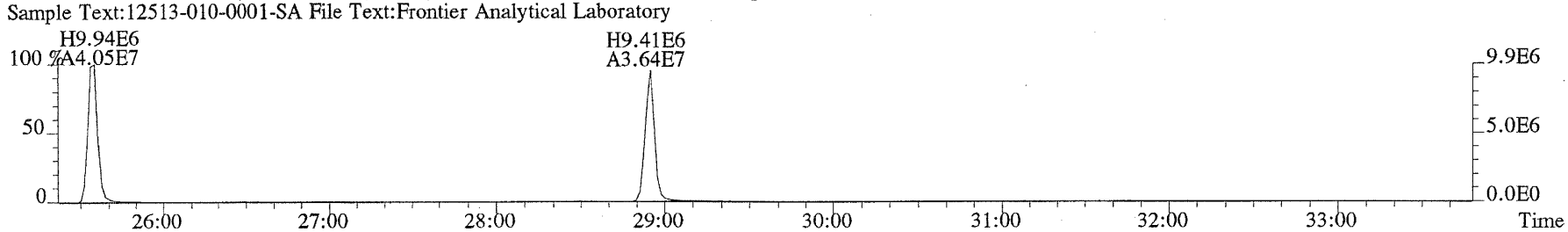
File:07AUG19Z #1-401 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



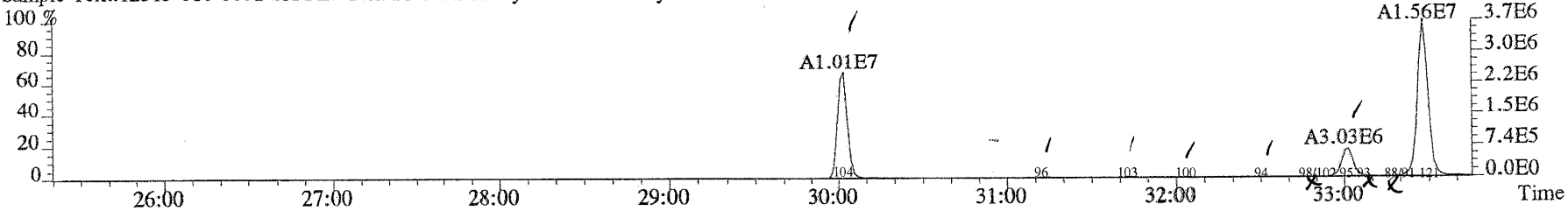
File:07AUG19Z #1-401 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



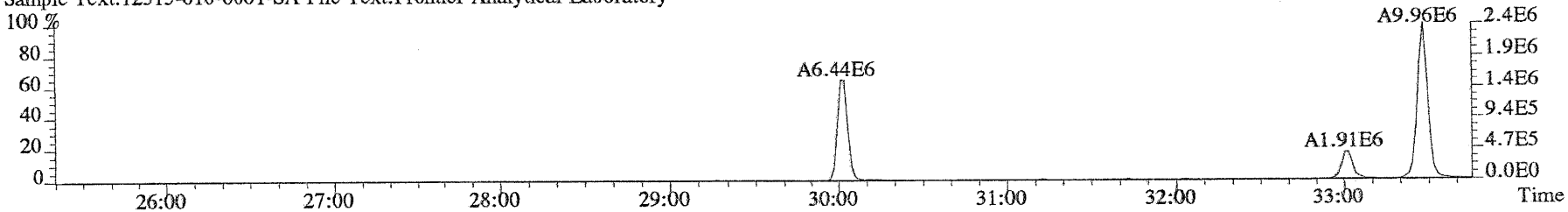
File:07AUG19Z #1-401 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



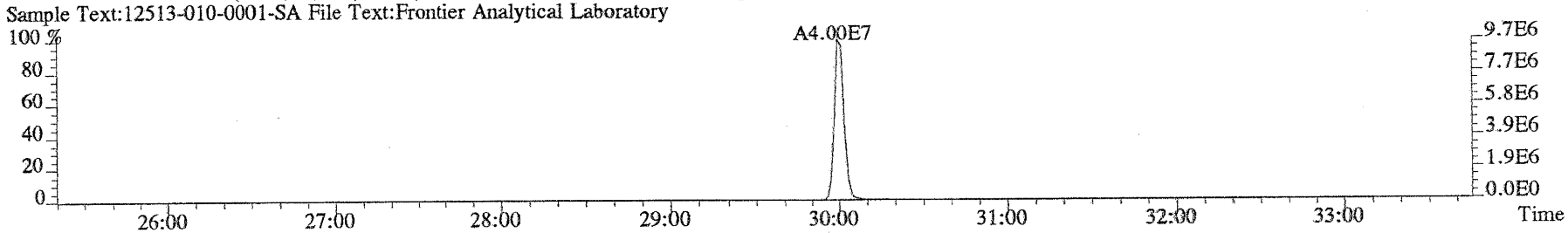
File:07AUG19Z #1-401 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



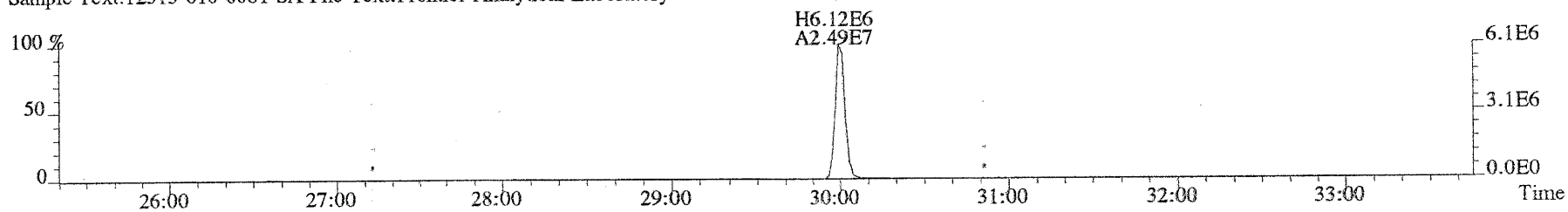
File:07AUG19Z #1-401 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



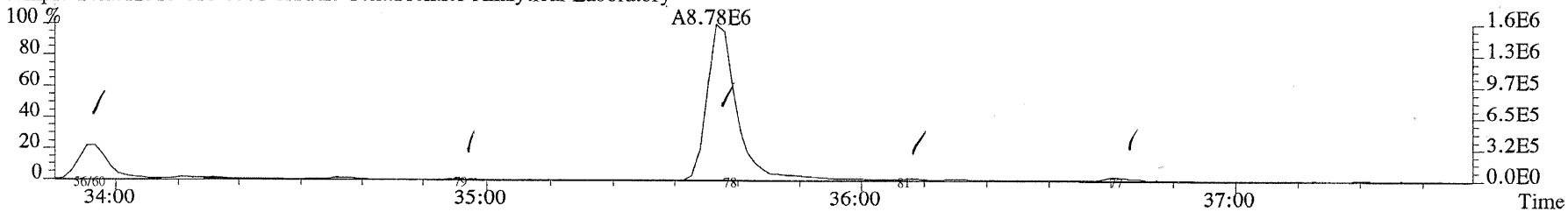
File:07AUG19Z #1-401 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



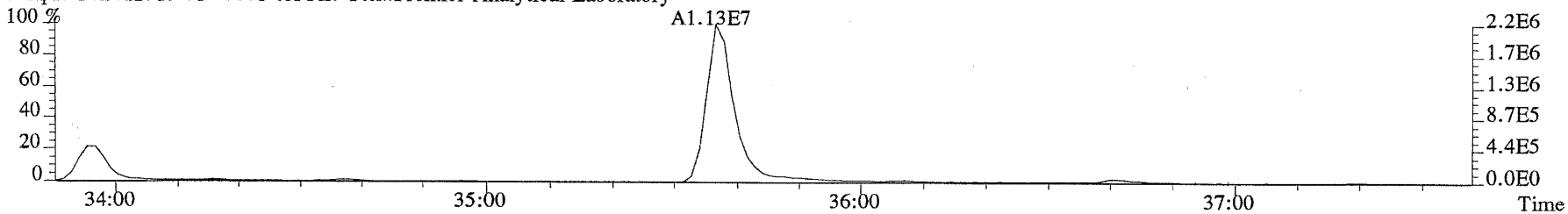
File:07AUG19Z #1-401 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-181 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-181 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



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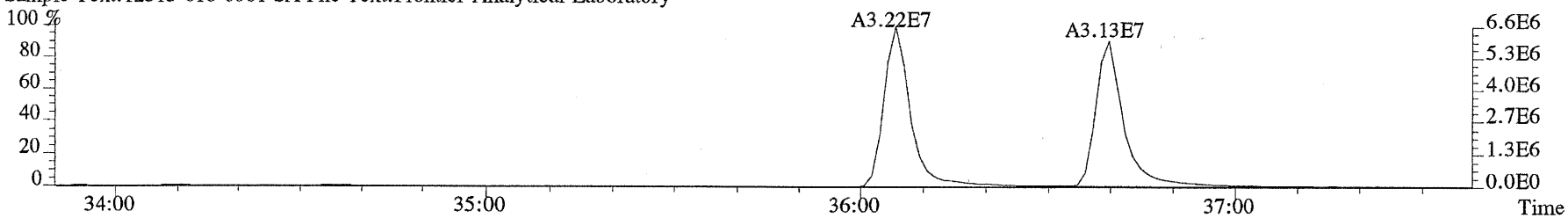
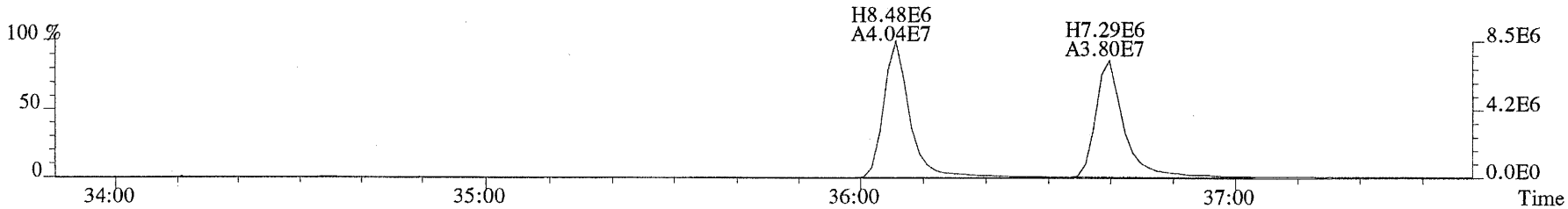
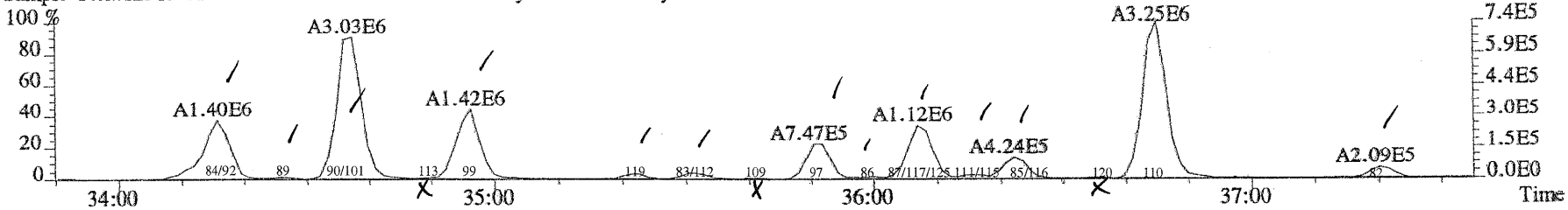
301.9626 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



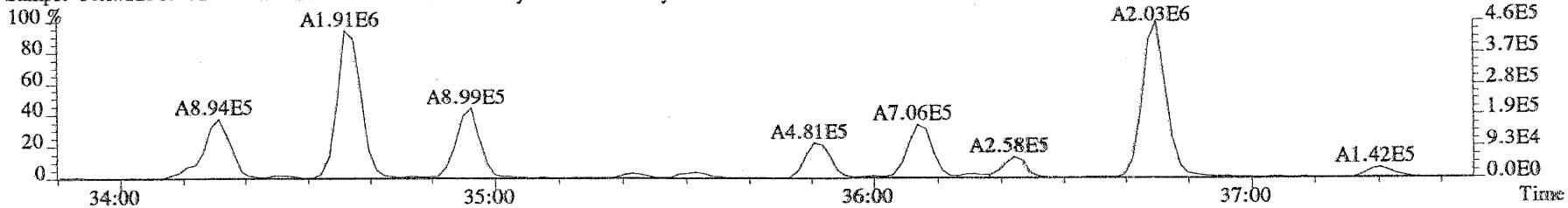
File:07AUG19Z #1-181 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



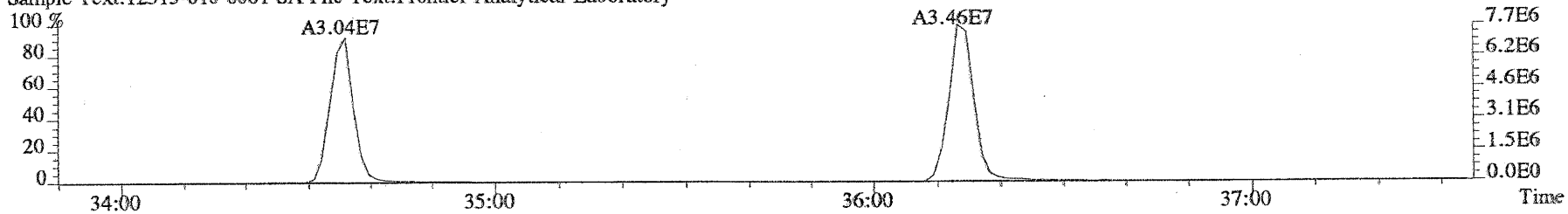
File:07AUG19Z #1-181 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



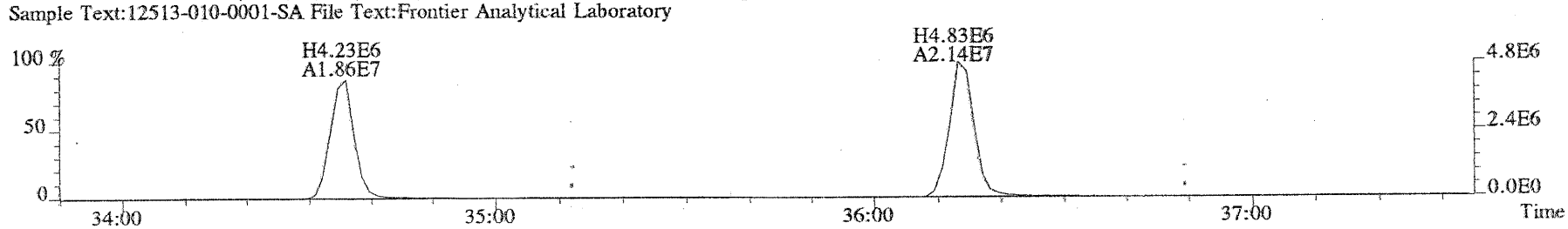
File:07AUG19Z #1-181 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



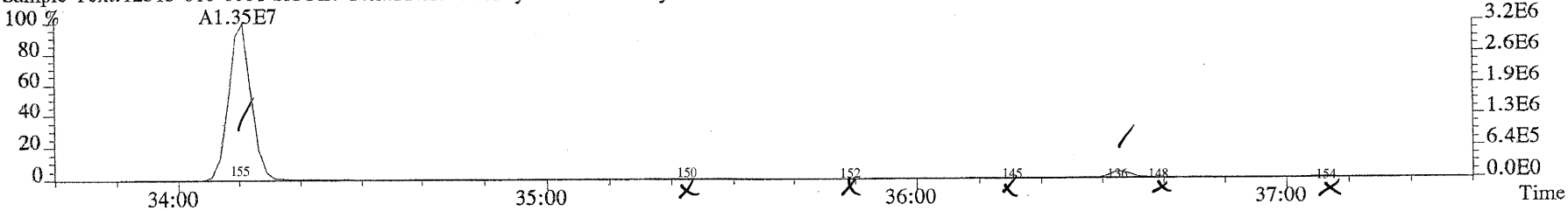
File:07AUG19Z #1-181 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



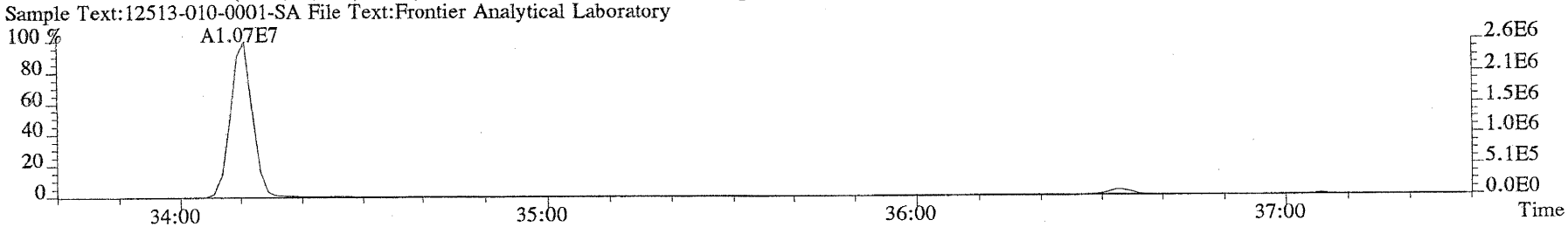
File:07AUG19Z #1-181 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



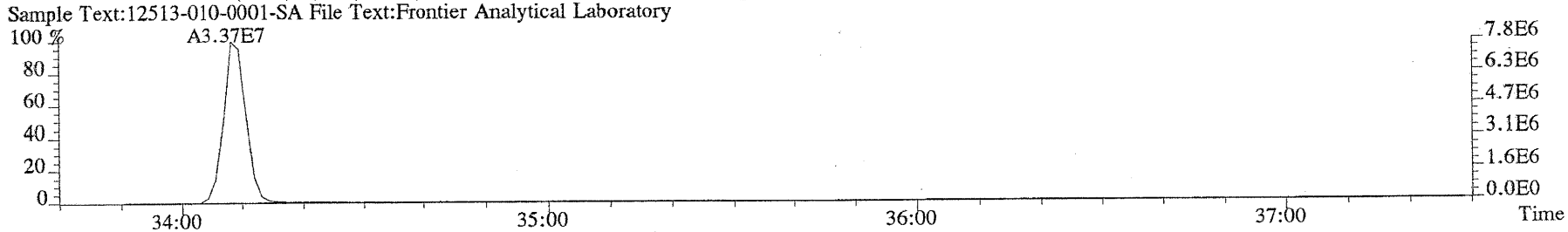
File:07AUG19Z #1-181 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



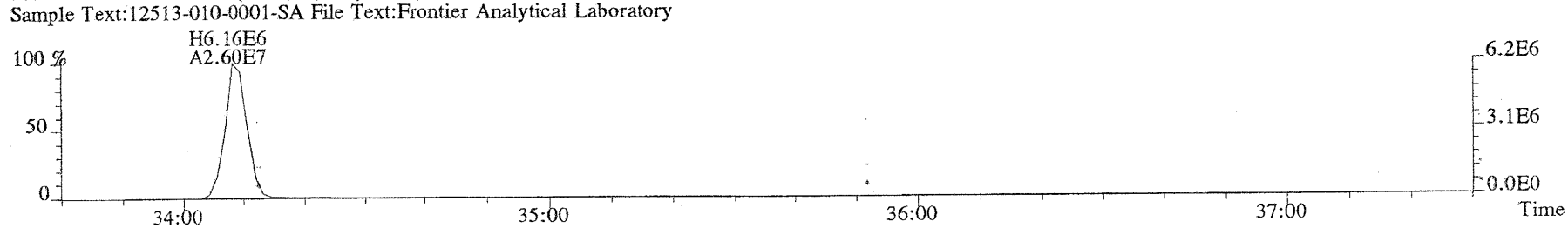
File:07AUG19Z #1-181 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



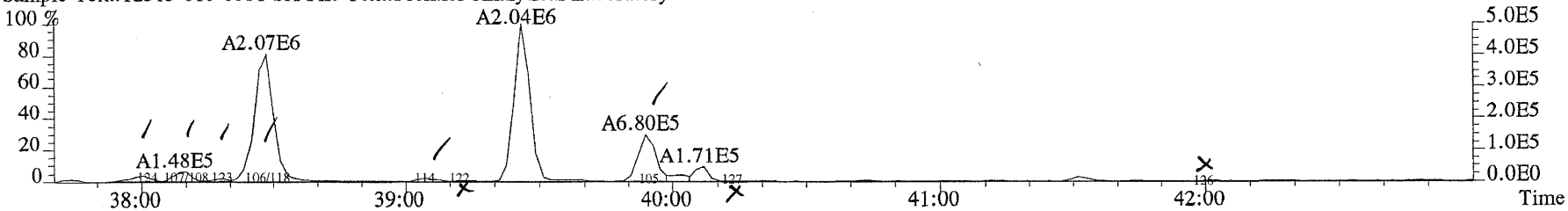
File:07AUG19Z #1-181 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



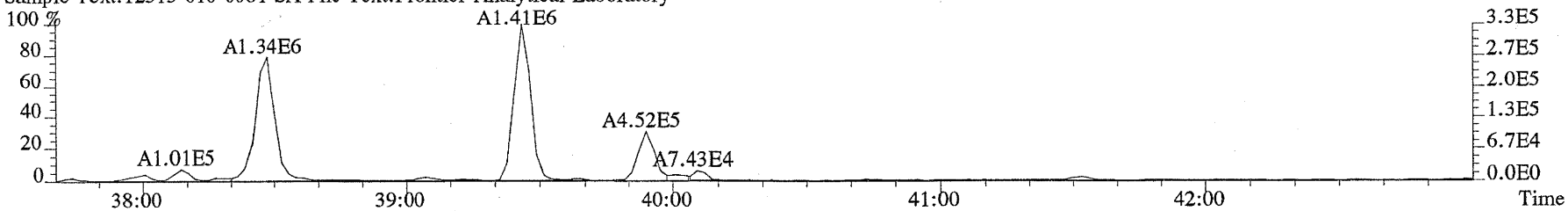
File:07AUG19Z #1-181 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



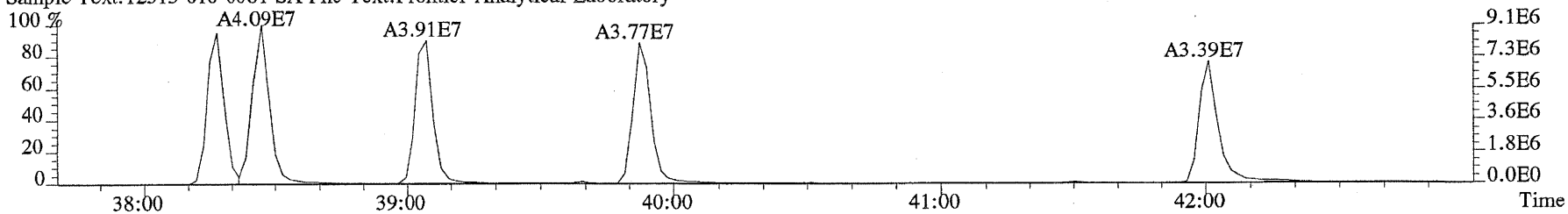
File:07AUG19Z #1-405 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:5 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-405 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-405 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



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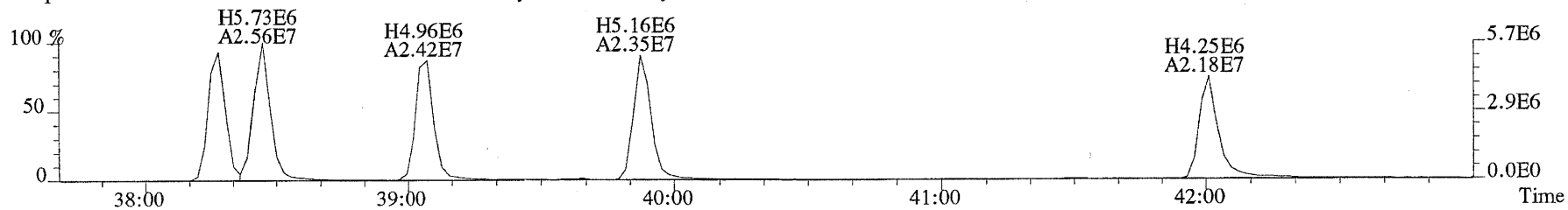
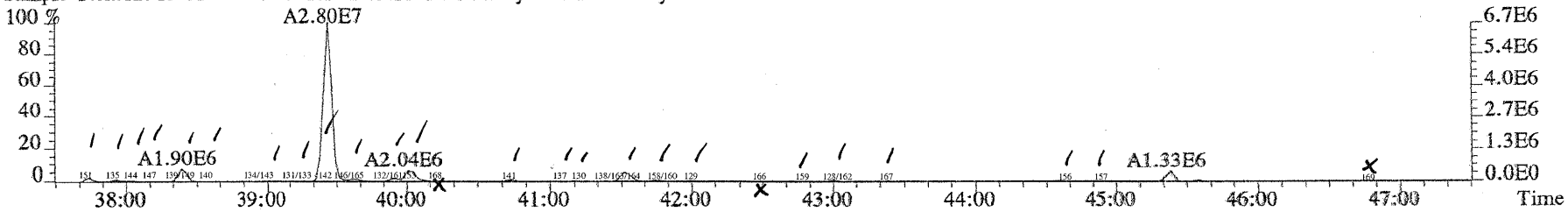
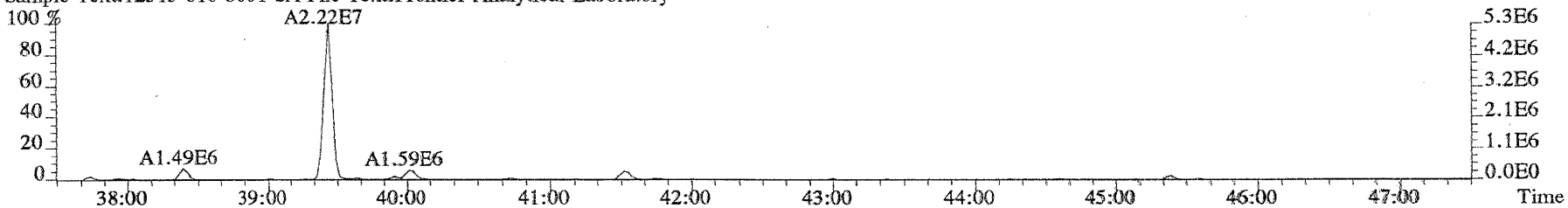
339.9178 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



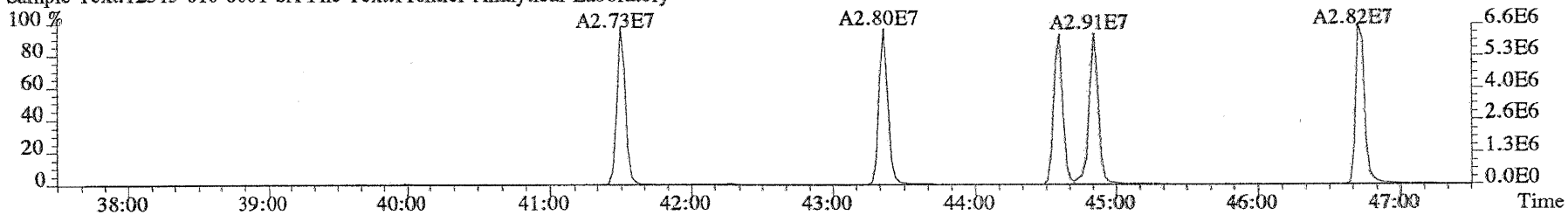
File:07AUG19Z #1-405 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



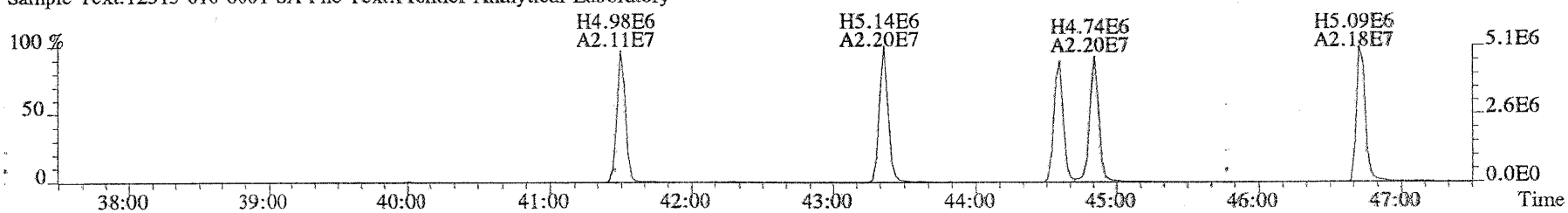
File:07AUG19Z #1-405 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



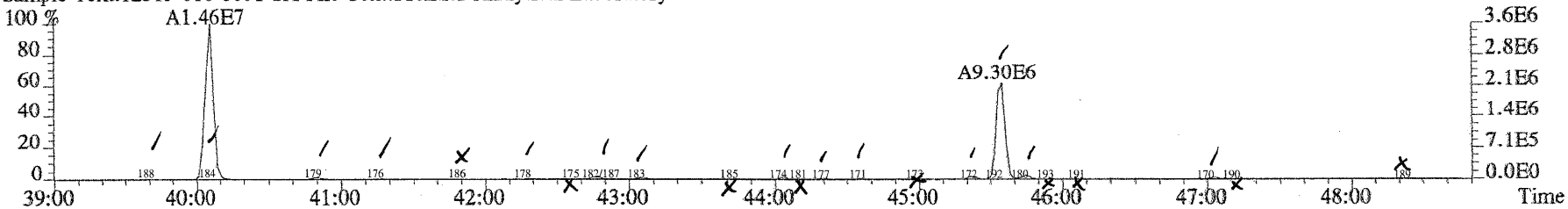
File:07AUG19Z #1-405 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



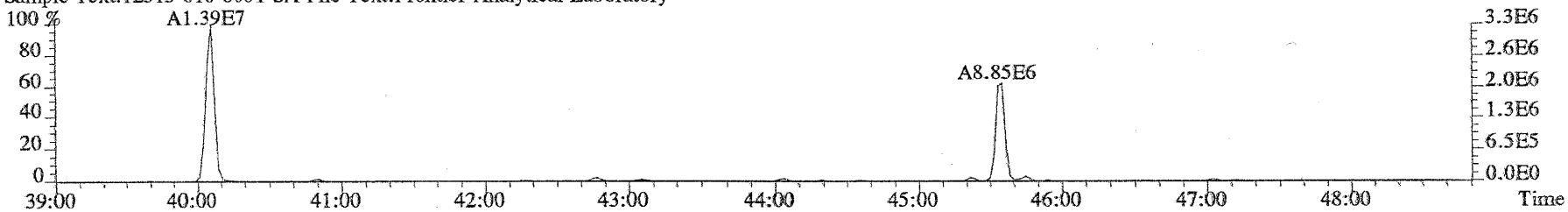
File:07AUG19Z #1-405 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



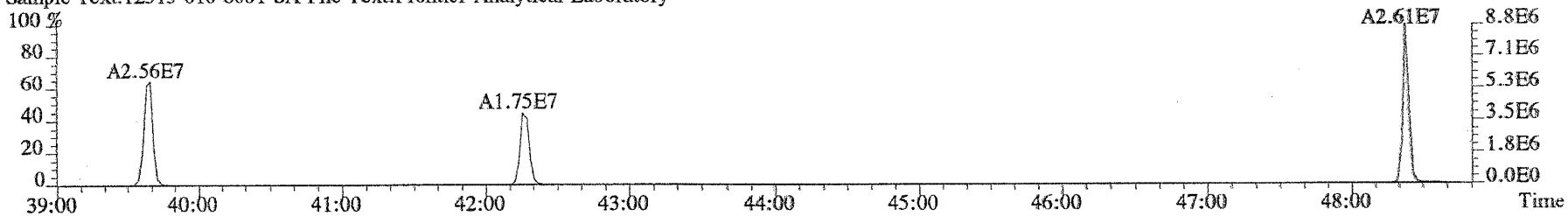
File:07AUG19Z #1-405 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



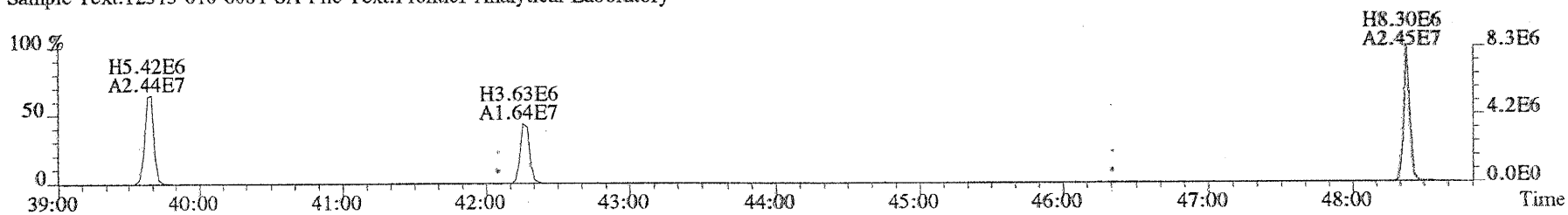
File:07AUG19Z #1-405 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



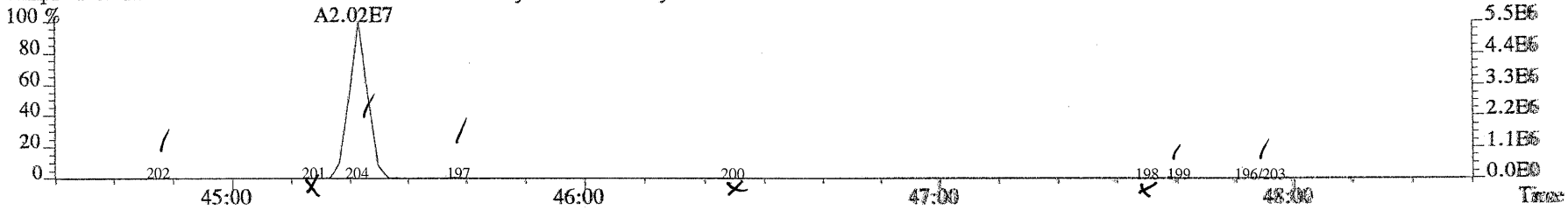
File:07AUG19Z #1-405 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



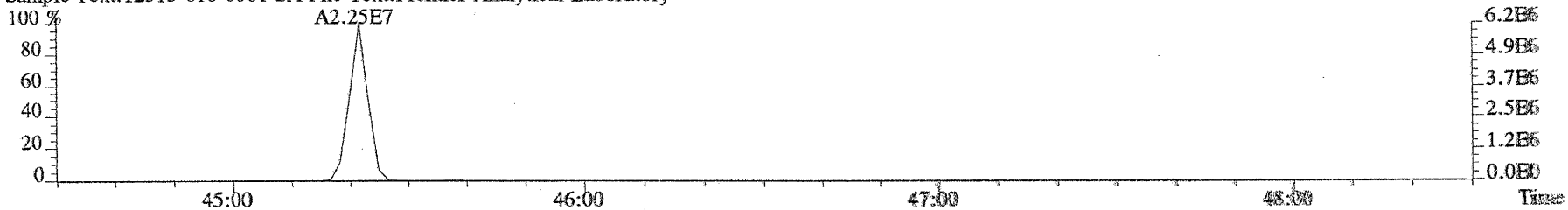
File:07AUG19Z #1-405 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



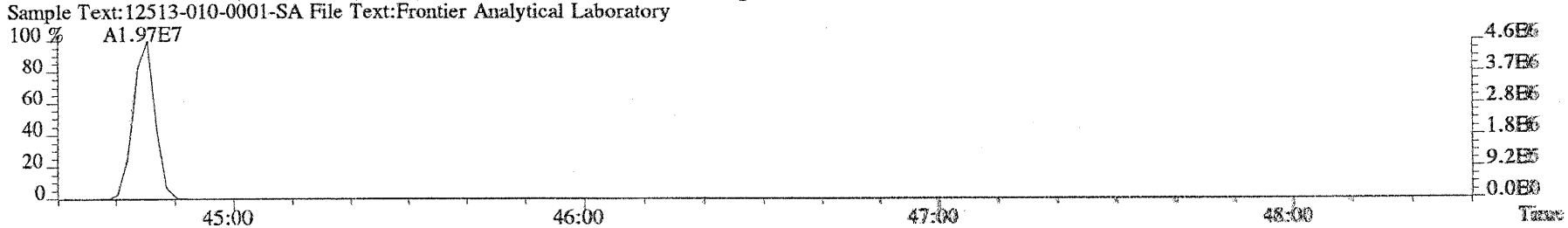
File:07AUG19Z #1-405 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



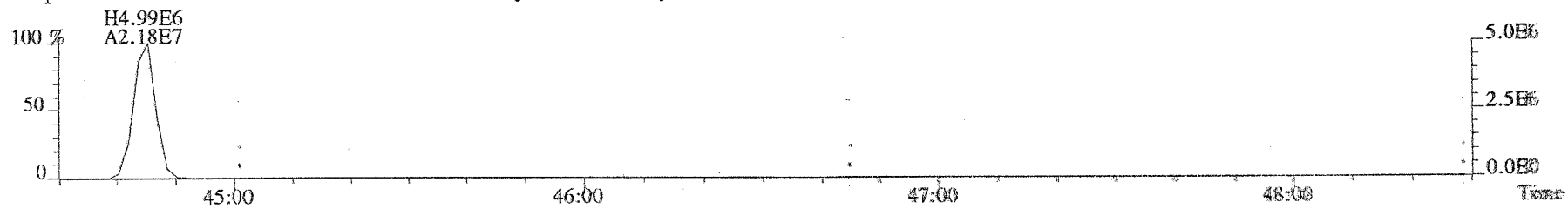
File:07AUG19Z #1-405 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



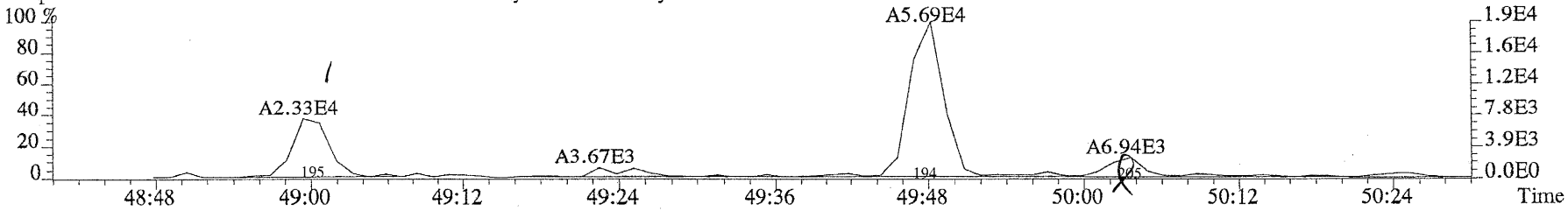
File:07AUG19Z #1-405 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



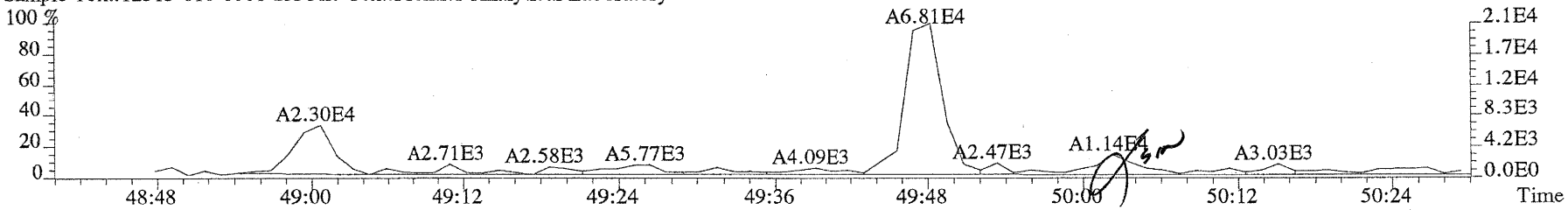
File:07AUG19Z #1-405 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



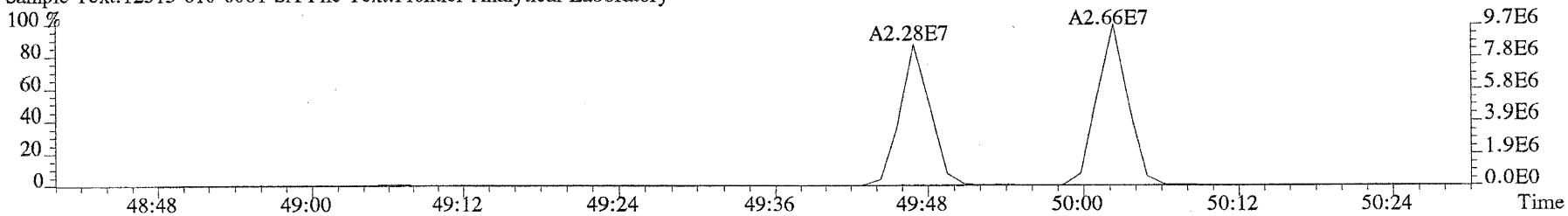
File:07AUG19Z #1-315 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



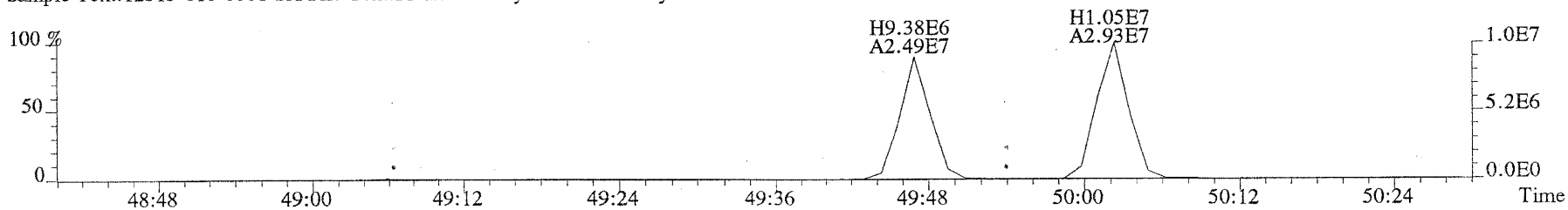
File:07AUG19Z #1-315 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



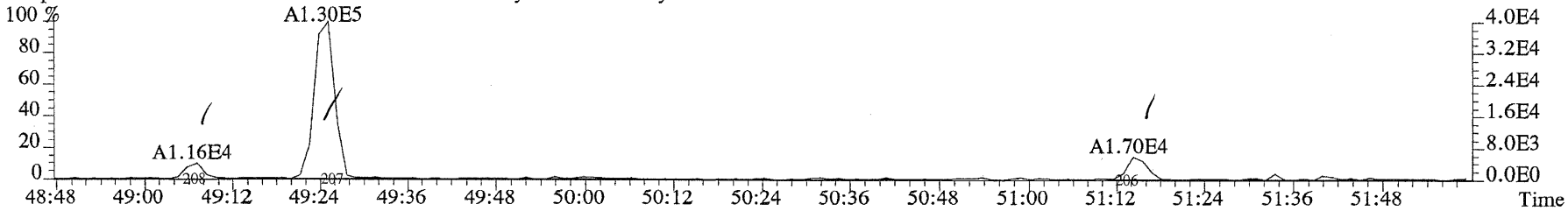
File:07AUG19Z #1-315 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



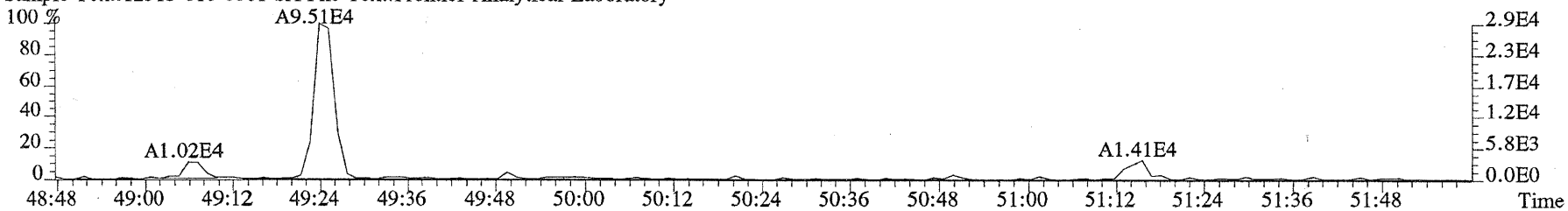
File:07AUG19Z #1-315 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



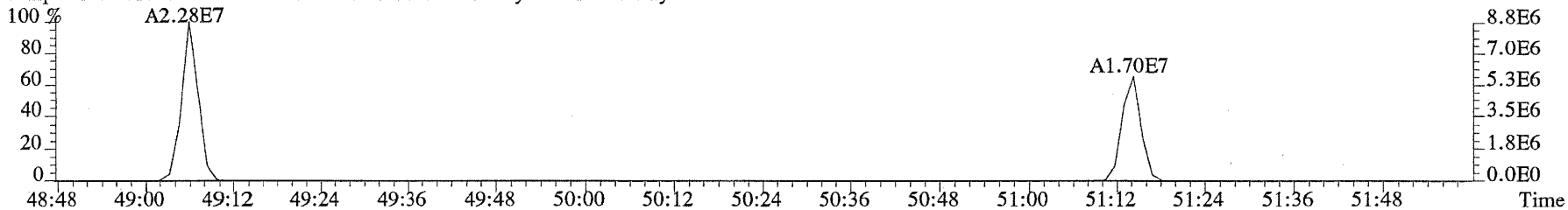
File:07AUG19Z #1-315 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



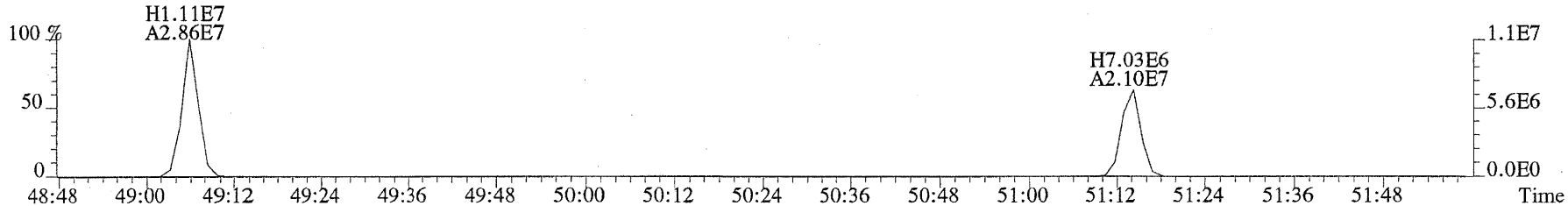
File:07AUG19Z #1-315 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



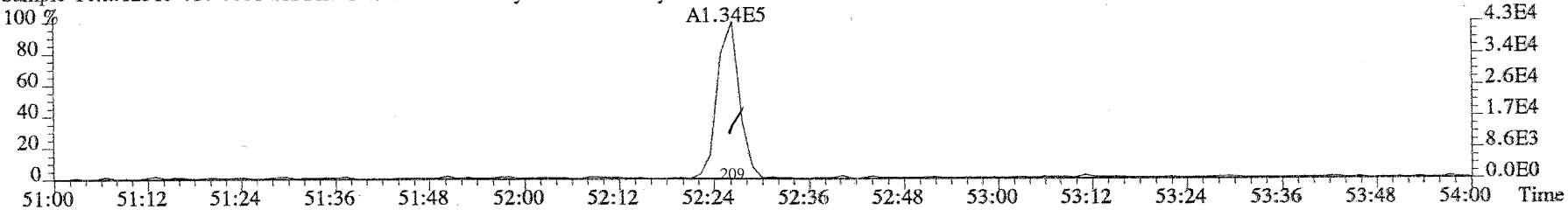
File:07AUG19Z #1-315 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



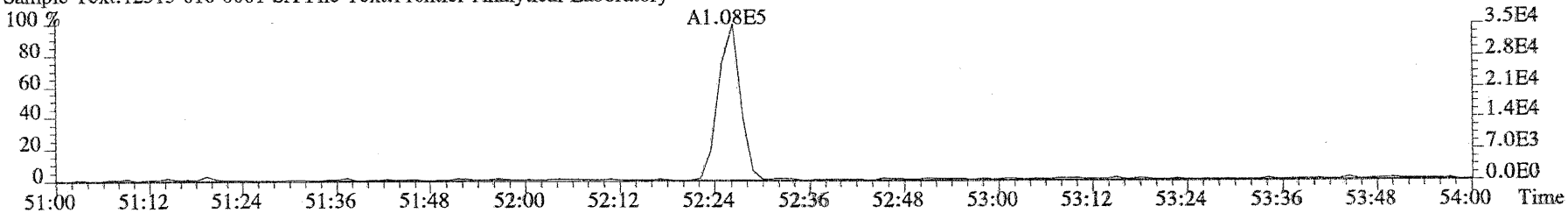
File:07AUG19Z #1-315 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



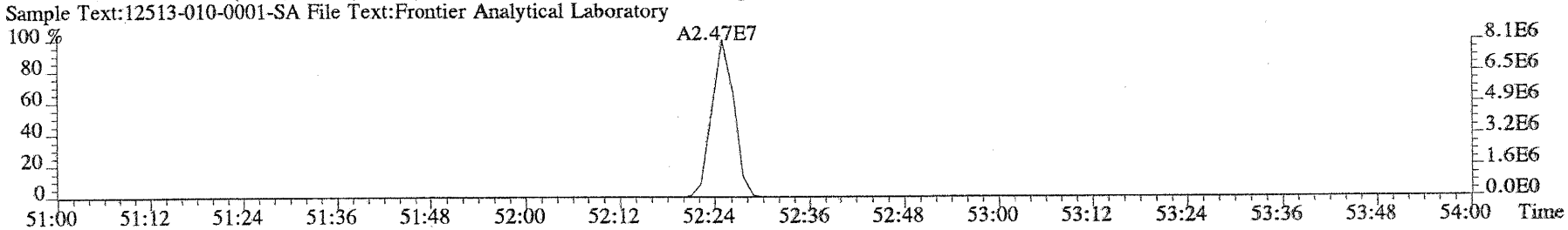
File:07AUG19Z #1-315 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



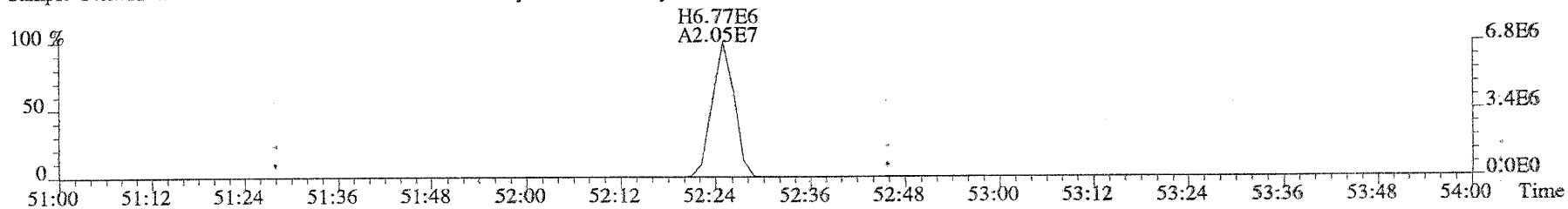
File:07AUG19Z #1-315 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-315 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-315 Acq: 7-AUG-2019 17:06:22 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-010-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12513-011-0001-SA Filename: 07AUG19Z Sam:13 Acquired: 7-AUG-19 18:05:08 ICal: DAILY209FAL4-8-7-19
Client ID: LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI ConCal: ST080719Z1 EndCal: ST080719Z2
Results: 12513 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	5.53e+04	3.34 y	14:32	1.11	5.30	J	-	-	*	
13C-PCB-1	9.41e+07	3.21 y	14:31	0.91	8490					84.9
PCB-2	*	* n	NotFnd	1.13	*		1510	1430	2.30	
PCB-3	*	* n	NotFnd	1.15	*		1510	1430	2.54	
13C-PCB-3	9.55e+07	3.26 y	16:58	0.89	8880					88.8
PCB-4	8.05e+05	1.53 y	18:12	1.16	97.5		-	-	*	
PCB-10	*	* n	NotFnd	1.28	*		840	9870	9.46	
13C-PCB-4	7.11e+07	1.60 y	18:10	0.65	9080					90.8
PCB-9	*	* n	NotFnd	1.40	*		840	9870	8.63	
PCB-7	*	* n	NotFnd	1.36	*		840	9870	8.86	
PCB-6	9.09e+05	1.38 y	20:31	1.38	72.2		-	-	*	
PCB-8	3.43e+06	1.48 y	20:53	1.34	281		-	-	*	
PCB-5	*	* n	NotFnd	1.34	*		840	9870	9.04	
PCB-14	3.90e+06	1.44 y	21:57	1.32	324		-	-	*	
PCB-11	3.76e+05	1.51 y	23:05	1.20	34.2		-	-	*	
PCB-13	*	* n	NotFnd	1.18	*		840	9870	10.3	
PCB-12	*	* n	NotFnd	1.23	*		840	9870	9.80	
PCB-15	1.22e+06	1.56 y	23:44	1.08	101		-	-	*	
13C-PCB-15	1.11e+08	1.58 y	23:43	0.93	9840					98.4
PCB-19	8.40e+05	1.05 y	22:04	1.19	132		-	-	*	
PCB-30	*	* n	NotFnd	1.77	*		2330	700	2.90	
PCB-18	5.66e+06	1.08 y	23:38	1.18	895		-	-	*	
PCB-17	2.72e+06	1.06 y	23:47	1.29	391		-	-	*	
PCB-27	3.37e+05	1.05 y	24:18	1.74	36.2		-	-	*	
PCB-24	5.90e+05	1.13 y	24:19	1.64	67.0		-	-	*	
PCB-16	2.59e+06	1.09 y	24:50	1.36	356		-	-	*	
PCB-32	2.59e+06	1.09 y	24:50	1.53	316		-	-	*	
13C-PCB-19	5.36e+07	1.08 y	22:03	0.51	8730					87.3
13C-PCB-9	1.21e+08	1.62 y	19:51	-	125					
PCB-34	4.40e+04	1.11 y	25:34	1.14	4.02	J	-	-	*	
PCB-23	*	* n	NotFnd	1.35	*		1520	1260	2.84	
PCB-29	7.75e+04	1.15 y	25:53	1.30	6.17	J	-	-	*	
PCB-26	1.71e+06	1.05 y	26:06	1.24	142		-	-	*	
PCB-25	1.05e+06	1.00 y	26:16	1.22	88.7		-	-	*	
PCB-31	7.96e+06	1.03 y	26:36	1.28	647		-	-	*	
PCB-28	1.01e+07	1.07 y	26:41	1.42	738		-	-	*	
PCB-20	5.66e+06	1.04 y	27:18	1.18	498		-	-	*	Co-elute PCB 21/33
PCB-21	5.66e+06	1.04 y	27:18	1.18	498		-	-	*	Co-elute PCB 20/33
PCB-33	5.66e+06	1.04 y	27:18	1.18	498		-	-	*	Co-elute PCB 20/21
PCB-22	3.18e+06	1.06 y	27:42	1.23	267		-	-	*	
PCB-36	4.83e+06	1.04 y	28:18	1.18	425		-	-	*	
PCB-39	*	* n	NotFnd	1.17	*		1520	1260	3.30	
PCB-38	*	* n	NotFnd	1.17	*		1520	1260	3.29	
PCB-35	1.26e+05	1.16 y	30:03	1.03	12.7	J	-	-	*	
PCB-37	1.63e+06	1.14 y	30:23	1.09	156		-	-	*	
13C-PCB-37	9.64e+07	1.07 y	30:21	1.32	11000					110

PCB-54	4.61e+04	0.75	y	25:36	1.19	5.46	J	-	-	*	
PCB-50	4.67e+04	0.78	y	26:43	0.93	7.04	J	-	-	*	
PCB-53	1.15e+06	0.82	y	27:19	0.92	176		-	-	*	
PCB-51	3.94e+05	0.85	y	27:38	0.96	58.0		-	-	*	
PCB-45	1.06e+06	0.81	y	28:04	0.79	189		-	-	*	
PCB-46	4.08e+05	0.80	y	28:30	0.75	77.0		-	-	*	
PCB-52	5.10e+06	0.78	y	28:57	0.93	771		-	-	*	Co-elute PCB 69
PCB-69	5.10e+06	0.78	y	28:57	0.93	771		-	-	*	Co-elute PCB 52
PCB-73	1.71e+05	0.83	y	29:03	1.15	21.0		-	-	*	
PCB-43	3.70e+06	0.80	y	29:14	0.81	645		-	-	*	Co-elute PCB 49
PCB-49	3.70e+06	0.80	y	29:14	0.81	645		-	-	*	Co-elute PCB 43
PCB-47	1.45e+06	0.81	y	29:26	0.86	237		-	-	*	
PCB-48	1.24e+06	0.77	y	29:32	1.04	168		-	-	*	Co-elute PCB 75
PCB-75	1.24e+06	0.77	y	29:32	1.04	168		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.05	*		840	987	2.45	
PCB-62	*	*	n	NotFnd	1.09	*		840	987	2.37	
PCB-44	3.45e+06	0.79	y	30:10	0.69	707		-	-	*	
PCB-42	1.93e+06	0.79	y	30:24	0.90	303		-	-	*	Co-elute PCB 59
PCB-59	1.93e+06	0.79	y	30:24	0.90	303		-	-	*	Co-elute PCB 42
PCB-72	4.24e+06	0.82	y	30:57	0.96	623		-	-	*	Co-elute PCB 41/71/64
PCB-41	4.24e+06	0.82	y	30:57	0.96	623		-	-	*	Co-elute PCB 72/71/64
PCB-71	4.24e+06	0.82	y	30:57	0.96	623		-	-	*	Co-elute PCB 72/41/64
PCB-64	4.24e+06	0.82	y	30:57	0.96	623		-	-	*	Co-elute PCB 72/41/71
PCB-68	8.53e+04	0.86	y	31:12	1.11	10.8	J	-	-	*	
PCB-40	6.65e+05	0.78	y	31:23	0.60	156		-	-	*	
PCB-57	4.02e+04	0.89	y	31:44	1.00	5.67	J	-	-	*	
PCB-67	1.57e+05	0.87	y	32:03	0.94	23.5		-	-	*	
PCB-58	*	*	n	NotFnd	1.06	*		840	987	2.44	
PCB-63	1.40e+05	0.87	y	32:18	1.00	19.8	J	-	-	*	
PCB-74	1.78e+06	0.79	y	32:34	0.97	257		-	-	*	
PCB-61	3.78e+06	0.78	y	32:46	0.93	573		-	-	*	Co-elute PCB 70
PCB-70	3.78e+06	0.78	y	32:46	0.93	573		-	-	*	Co-elute PCB 61
PCB-76	3.61e+06	0.85	y	32:58	1.02	496		-	-	*	Co-elute PCB 66
PCB-66	3.61e+06	0.85	y	32:58	1.02	496		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.20	*		840	987	2.15	
PCB-55	2.81e+05	0.74	y	33:29	1.03	38.5		-	-	*	
13C-PCB-54	7.10e+07	0.83	y	25:34	1.26	8500					85.0
PCB-104	8.86e+06	1.57	y	30:03	1.08	1310		-	-	*	
PCB-96	4.37e+04	1.36	y	31:15	0.98	7.05	J	-	-	*	
PCB-103	7.21e+04	1.39	y	31:44	0.77	14.8	J	-	-	*	
PCB-100	4.79e+04	1.39	y	32:04	0.79	9.68	J	-	-	*	
PCB-94	*	*	n	NotFnd	0.64	*		340	332	1.74	
PCB-98	*	*	n	NotFnd	0.65	*		340	332	1.72	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.65	*		340	332	1.72	Co-elute PCB 98
PCB-95	2.22e+06	1.56	y	33:02	0.69	512		-	-	*	
PCB-93	*	*	n	NotFnd	0.69	*		340	332	1.62	
PCB-88	*	*	n	NotFnd	0.72	*		340	332	1.54	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.72	*		340	332	1.54	Co-elute PCB 88
PCB-121	1.25e+07	1.63	y	33:29	0.87	2270		-	-	*	
13C-PCB-104	6.30e+07	1.57	y	29:60	1.00	9420					94.2
13C-PCB-28	1.25e+08	1.08	y	26:40	1.67	11300					113
13C-PCB-52	6.66e+07	0.84	y	28:55	-	135					

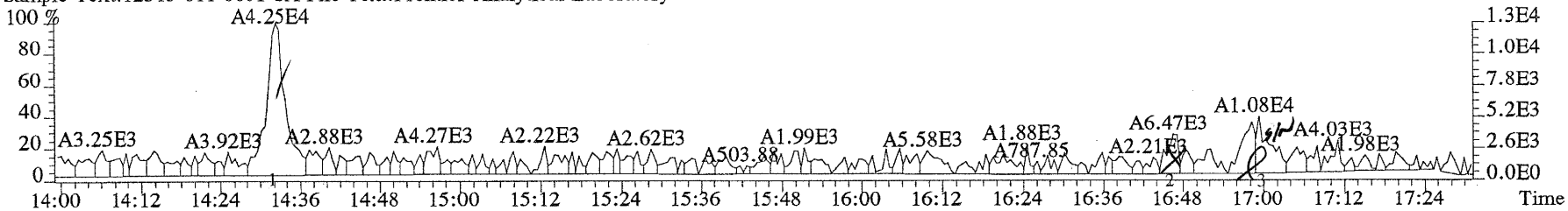
PCB-56	2.33e+06	0.76	y	33:57	1.02	328		-	-	*	Co-elute PCB 60
PCB-60	2.33e+06	0.76	y	33:57	1.02	328		-	-	*	Co-elute PCB 56
PCB-79	5.42e+04	0.80	y	34:54	1.16	6.70	J	-	-	*	
PCB-78	9.50e+06	0.78	y	35:37	1.11	1230		-	-	*	
PCB-81	1.12e+05	0.79	y	36:08	1.17	13.9	J	-	-	*	
13C-PCB-81	6.91e+07	0.80	y	36:06	1.41	10000					100
PCB-77	2.71e+05	0.74	y	36:40	1.00	38.8		-	-	*	
13C-PCB-77	7.02e+07	0.81	y	36:39	1.45	9820					98.2
PCB-155	1.26e+07	1.24	y	34:10	1.01	2120		-	-	*	
PCB-150	*	*	n	NotFnd	0.98	*		476	444	1.68	
PCB-152	*	*	n	NotFnd	0.87	*		476	444	1.89	
PCB-145	*	*	n	NotFnd	0.96	*		476	444	1.71	
PCB-136	4.09e+05	1.32	y	36:33	0.94	74.4		-	-	*	
PCB-148	*	*	n	NotFnd	0.63	*		476	444	2.59	
PCB-154	7.46e+04	1.41	y	37:07	0.79	16.2	J	-	-	*	
13C-PCB-155	5.87e+07	1.28	y	34:09	1.27	9440					94.4
13C-PCB-111	5.87e+07	1.62	y	36:14	1.24	9670					96.7
13C-PCB-101	4.92e+07	1.62	y	34:35	-	131					
PCB-84	1.10e+06	1.53	y	34:16	0.83	220		-	-	*	Co-elute PCB 92
PCB-92	1.10e+06	1.53	y	34:16	0.83	220		-	-	*	Co-elute PCB 84
PCB-89	5.24e+04	1.51	y	34:26	0.81	10.6	J	-	-	*	
PCB-90	2.40e+06	1.57	y	34:37	0.91	437		-	-	*	Co-elute PCB 101
PCB-101	2.40e+06	1.57	y	34:37	0.91	437		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.04	*		1340	1040	4.19	
PCB-99	1.10e+06	1.60	y	34:56	1.00	180		-	-	*	
PCB-119	8.35e+04	1.71	y	35:22	1.15	11.9	J	-	-	*	
PCB-83	1.21e+05	1.66	y	35:32	0.91	21.9		-	-	*	Co-elute PCB 112
PCB-112	1.21e+05	1.66	y	35:32	0.91	21.9		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.09	*		1340	1040	4.03	
PCB-97	5.57e+05	1.65	y	35:51	0.75	123		-	-	*	
PCB-86	*	*	n	NotFnd	0.83	*		1340	1040	5.28	
PCB-125	7.86e+05	1.63	y	36:08	0.99	131		-	-	*	Co-elute PCB 87/117
PCB-87	7.86e+05	1.63	y	36:08	0.99	131		-	-	*	Co-elute PCB 125/117
PCB-117	7.86e+05	1.63	y	36:08	0.99	131		-	-	*	Co-elute PCB 125/87
PCB-111	6.06e+04	1.32	y	36:15	1.14	8.76	J	-	-	*	Co-elute PCB 115
PCB-115	6.06e+04	1.32	y	36:15	1.14	8.76	J	-	-	*	Co-elute PCB 111
PCB-85	3.37e+05	1.75	y	36:23	0.99	56.2		-	-	*	Co-elute PCB 116
PCB-116	3.37e+05	1.75	y	36:23	0.99	56.2		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.18	*		1340	1040	3.70	
PCB-110	2.42e+06	1.58	y	36:44	1.13	354		-	-	*	
PCB-82	1.80e+05	1.66	y	37:21	0.66	45.0		-	-	*	
PCB-124	8.09e+04	1.55	y	38:01	1.13	11.8	J	-	-	*	
PCB-108	1.23e+05	1.37	y	38:10	1.08	18.7	J	-	-	*	Co-elute PCB 107
PCB-107	1.23e+05	1.37	y	38:10	1.08	18.7	J	-	-	*	Co-elute PCB 108
PCB-123	3.27e+04	1.51	y	38:18	1.02	5.39	J	-	-	*	
13C-PCB-123	5.97e+07	1.60	y	38:16	1.21	10600					106
PCB-118	1.54e+06	1.55	y	38:28	1.04	229		-	-	*	Co-elute PCB 106
PCB-106	1.54e+06	1.55	y	38:28	1.04	229		-	-	*	Co-elute PCB 118
13C-PCB-118	6.47e+07	1.61	y	38:26	1.36	10300					103
PCB-114	4.73e+04	1.61	y	39:04	1.13	6.92	J	-	-	*	
13C-PCB-114	6.04e+07	1.61	y	39:04	1.26	10300					103
PCB-122	2.63e+04	1.64	y	39:12	1.04	4.16	J	-	-	*	
PCB-105	5.74e+05	1.53	y	39:55	1.12	88.3		-	-	*	
13C-PCB-105	5.79e+07	1.62	y	39:53	1.26	9870					98.7

PCB-127	*	*	n	NotFnd	1.03	*		804	654	2.62	
PCB-126	*	*	n	NotFnd	1.08	*		804	654	3.10	
13C-PCB-126	5.38e+07	1.60	y	42:00	1.17	9870					98.7
PCB-151	5.16e+05	1.23	y	37:43	0.88	115		-	-	*	
PCB-135	2.60e+05	1.26	y	37:56	0.83	61.1		-	-	*	
PCB-144	1.18e+05	1.38	y	38:03	1.01	22.7		-	-	*	
PCB-147	3.90e+04	1.08	y	38:11	0.93	8.15	J	-	-	*	
PCB-139	1.74e+06	1.27	y	38:24	0.99	342		-	-	*	Co-elute PCB 149
PCB-149	1.74e+06	1.27	y	38:24	0.99	342		-	-	*	Co-elute PCB 139
PCB-140	3.29e+04	1.10	y	38:36	0.93	6.94	J	-	-	*	
PCB-143	9.40e+04	1.15	y	39:01	0.77	23.9		-	-	*	Co-elute PCB 134
PCB-134	9.40e+04	1.15	y	39:01	0.77	23.9		-	-	*	Co-elute PCB 143
PCB-131	4.25e+04	1.32	y	39:15	0.78	10.7	J	-	-	*	Co-elute PCB 133
PCB-133	4.25e+04	1.32	y	39:15	0.78	10.7	J	-	-	*	Co-elute PCB 131
PCB-142	2.47e+07	1.27	y	39:27	0.77	6260		-	-	*	
PCB-165	3.12e+05	1.22	y	39:39	1.04	58.6		-	-	*	Co-elute PCB 146
PCB-146	3.12e+05	1.22	y	39:39	1.04	58.6		-	-	*	Co-elute PCB 165
PCB-161	4.63e+05	1.24	y	39:55	0.95	95.0		-	-	*	Co-elute PCB 132
PCB-132	4.63e+05	1.24	y	39:55	0.95	95.0		-	-	*	Co-elute PCB 161
PCB-153	2.03e+06	1.26	y	40:02	1.08	365		-	-	*	
PCB-168	*	*	n	NotFnd	1.17	*		680	780	2.67	
PCB-141	2.43e+05	1.20	y	40:43	0.85	55.6		-	-	*	
PCB-137	5.77e+04	1.33	y	41:06	0.77	14.6	J	-	-	*	
PCB-130	7.89e+04	1.41	y	41:11	0.82	18.8	J	-	-	*	
PCB-138	1.58e+06	1.28	y	41:32	1.04	296		-	-	*	Co-elute PCB 163/164
PCB-163	1.58e+06	1.28	y	41:32	1.04	296		-	-	*	Co-elute PCB 138/164
PCB-164	1.58e+06	1.28	y	41:32	1.04	296		-	-	*	Co-elute PCB 138/163
PCB-158	1.76e+05	1.25	y	41:45	1.16	29.6		-	-	*	Co-elute PCB 160
PCB-160	1.76e+05	1.25	y	41:45	1.16	29.6		-	-	*	Co-elute PCB 158
PCB-129	5.01e+04	1.41	y	42:00	0.73	13.4	J	-	-	*	
PCB-166	*	*	n	NotFnd	1.09	*		680	780	2.84	
PCB-159	4.47e+04	1.41	y	42:46	1.20	7.23	J	-	-	*	
PCB-128	1.79e+05	1.25	y	43:01	0.94	36.9		-	-	*	Co-elute PCB 162
PCB-162	1.79e+05	1.25	y	43:01	0.94	36.9		-	-	*	Co-elute PCB 128
PCB-167	5.50e+04	1.21	y	43:24	1.07	10.3	J	-	-	*	
13C-PCB-167	5.00e+07	1.28	y	43:21	1.16	9270					92.7
PCB-156	1.17e+05	1.08	y	44:36	1.14	20.8		-	-	*	
13C-PCB-156	4.95e+07	1.30	y	44:35	1.16	9180					91.8
PCB-157	3.07e+04	1.35	y	44:53	1.08	5.50	J	-	-	*	
13C-PCB-157	5.14e+07	1.27	y	44:50	1.17	9460					94.6
PCB-169	*	*	n	NotFnd	1.05	*		680	780	2.31	
13C-PCB-169	5.43e+07	1.28	y	46:43	1.16	10000					100

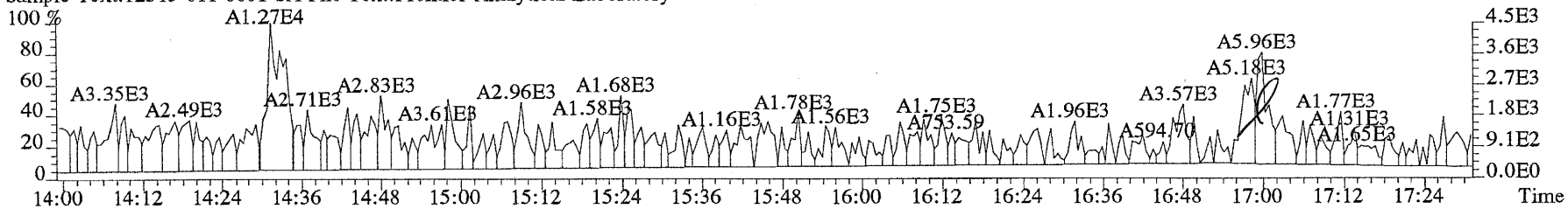
PCB-188	*	*	n	NotFnd	1.09	*		964	480	2.65	
13C-PCB-188	4.90e+07	1.05	y	39:39	1.15	9170					91.7
PCB-184	1.45e+07	1.05	y	40:05	1.21	2480		-	-	*	
PCB-179	1.90e+05	1.16	y	40:49	1.15	34.1		-	-	*	
PCB-176	6.91e+04	0.97	y	41:16	1.11	12.9	J	-	-	*	
PCB-186	*	*	n	NotFnd	1.12	*		964	480	2.45	
PCB-178	6.81e+04	1.07	y	42:18	0.77	18.2	J	-	-	*	
PCB-175	*	*	n	NotFnd	0.80	*		964	480	3.44	
PCB-187	3.57e+05	1.19	y	42:46	0.89	83.0		-	-	*	Co-elute PCB 182
PCB-182	3.57e+05	1.19	y	42:46	0.89	83.0		-	-	*	Co-elute PCB 187
PCB-183	2.01e+05	1.07	y	43:06	0.86	48.0		-	-	*	
PCB-185	*	*	n	NotFnd	0.79	*		964	480	3.49	
PCB-174	2.44e+05	1.03	y	44:04	0.81	61.8		-	-	*	
PCB-181	*	*	n	NotFnd	0.78	*		964	480	3.54	
PCB-177	1.27e+05	1.15	y	44:18	0.73	36.0		-	-	*	
PCB-171	6.57e+04	1.16	y	44:36	0.80	16.9	J	-	-	*	
PCB-173	*	*	n	NotFnd	0.70	*		964	480	3.93	
PCB-172	2.63e+05	1.16	y	45:23	0.75	72.2		-	-	*	
PCB-192	9.26e+06	1.06	y	45:34	0.99	1940		-	-	*	
PCB-180	4.71e+04	1.10	y	45:55	0.77	12.6	J	-	-	*	
PCB-193	*	*	n	NotFnd	1.04	*		964	480	2.64	
PCB-191	*	*	n	NotFnd	1.04	*		964	480	2.66	
PCB-170	1.71e+05	1.14	y	47:03	0.78	45.4		-	-	*	
PCB-190	*	*	n	NotFnd	1.05	*		964	480	2.61	
PCB-189	*	*	n	NotFnd	1.12	*		964	480	2.34	
13C-PCB-189	4.80e+07	1.09	y	48:24	1.01	10200					102
PCB-202	3.33e+04	0.98	y	44:46	0.98	8.50	J	-	-	*	
PCB-201	*	*	n	NotFnd	1.07	*		284	608	2.16	
PCB-204	2.04e+07	0.92	y	45:21	1.04	4920		-	-	*	
PCB-197	1.44e+05	0.97	y	45:37	1.10	32.8		-	-	*	
PCB-200	*	*	n	NotFnd	1.06	*		284	608	2.19	
PCB-198	*	*	n	NotFnd	0.82	*		284	608	2.83	
PCB-199	6.60e+04	0.92	y	47:39	0.77	21.5		-	-	*	
PCB-203	8.57e+04	0.82	y	47:54	0.85	25.3		-	-	*	Co-elute PCB 196
PCB-196	8.57e+04	0.82	y	47:54	0.85	25.3		-	-	*	Co-elute PCB 203
13C-PCB-202	3.98e+07	0.92	y	44:45	0.96	8950					89.5
13C-PCB-178	3.40e+07	1.05	y	42:17	0.74	9860					98.6
13C-PCB-138	4.65e+07	1.28	y	41:30	-	128					
PCB-195	3.29e+04	0.87	y	49:00	0.77	6.90	J	-	-	*	
PCB-194	8.29e+04	0.85	y	49:48	0.82	16.3	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.05	*		947	1210	2.38	
13C-PCB-205	6.22e+07	0.91	y	50:03	1.30	8990					89.9
PCB-208	*	*	n	NotFnd	1.00	*		944	916	2.33	
13C-PCB-208	5.67e+07	0.80	y	49:07	1.34	7980					79.8
PCB-207	1.25e+05	1.49	y	49:25	1.17	21.7		-	-	*	
PCB-206	3.04e+04	1.23	y	51:15	1.05	6.88	J	-	-	*	
13C-PCB-206	4.20e+07	0.80	y	51:15	0.95	8370					83.7
PCB-209	1.35e+05	1.13	y	52:27	1.11	24.7		-	-	*	
13C-PCB-209	4.92e+07	1.24	y	52:26	1.24	7500					75.0
13C-PCB-194	5.30e+07	0.91	y	49:48	-	165					

Analyst: _____ Date: 8/8/19

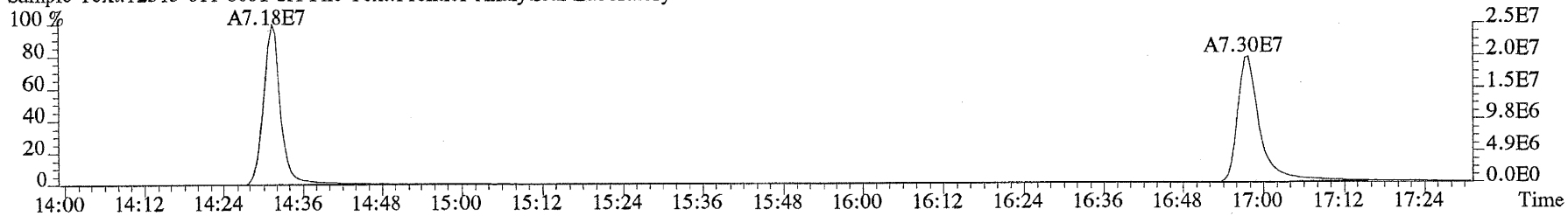
File:07AUG19Z #1-783 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



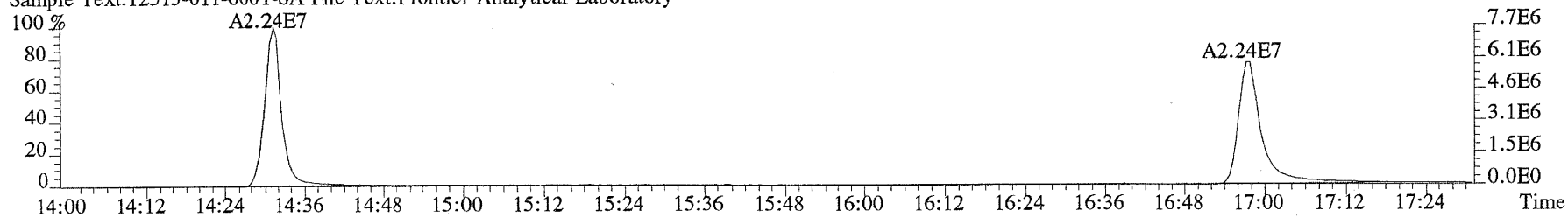
File:07AUG19Z #1-783 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



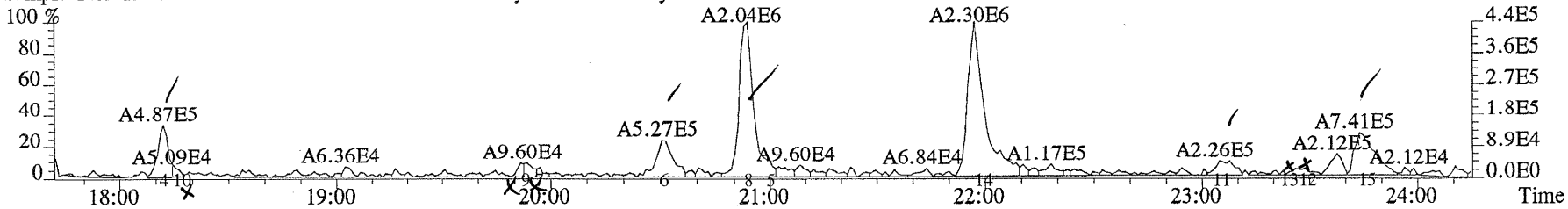
File:07AUG19Z #1-783 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



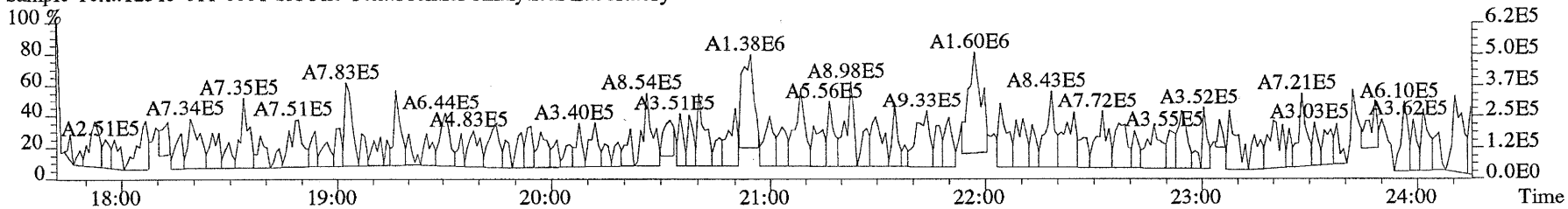
File:07AUG19Z #1-783 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



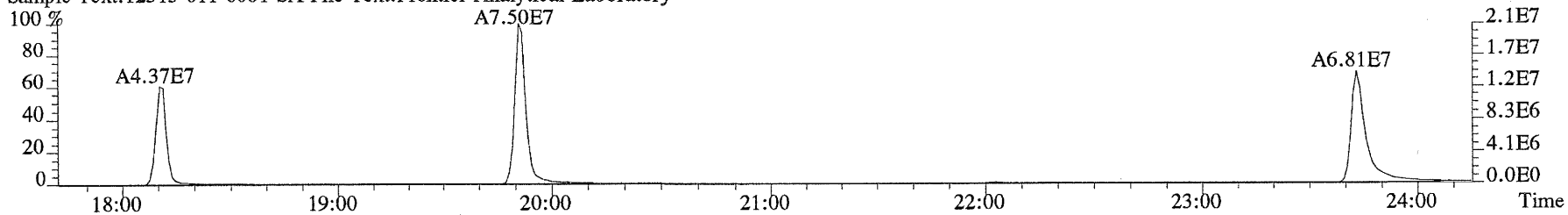
File:07AUG19Z #1-521 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-521 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-521 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-521 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
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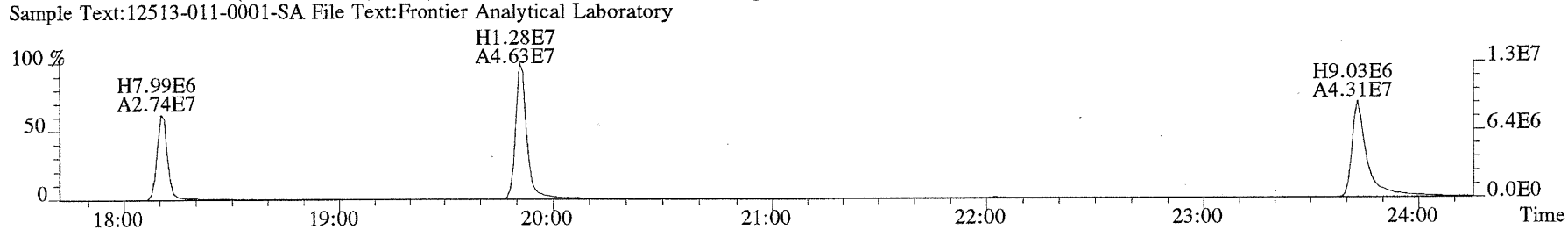
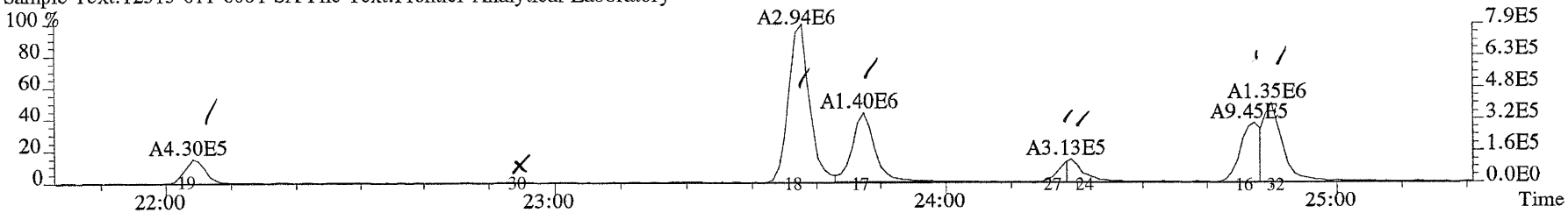
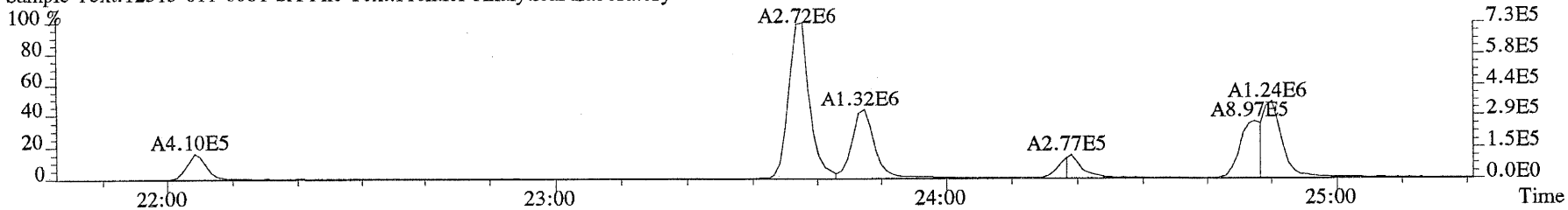


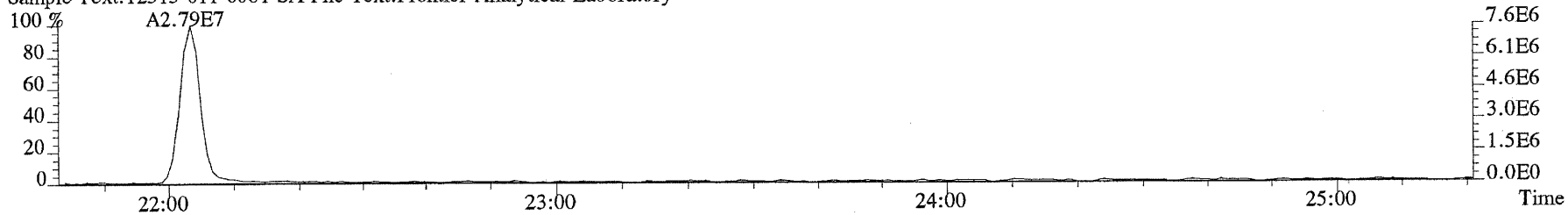
File:07AUG19Z #1-521 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



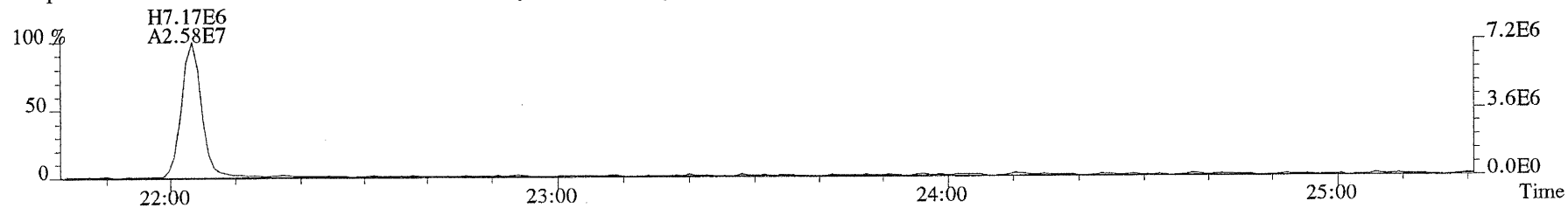
File:07AUG19Z #1-521 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



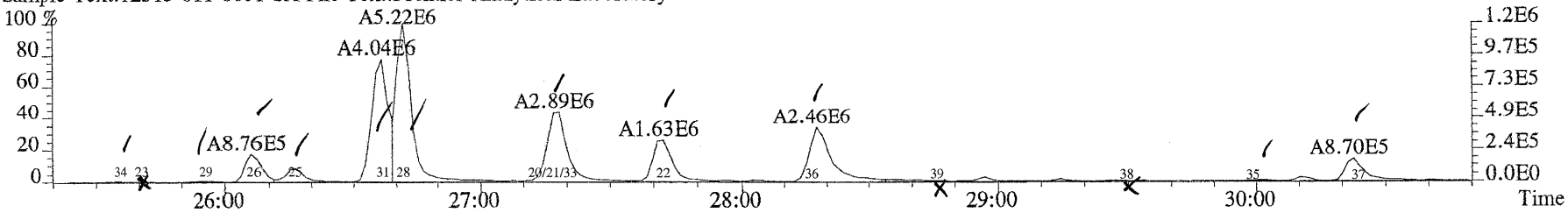
File:07AUG19Z #1-521 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



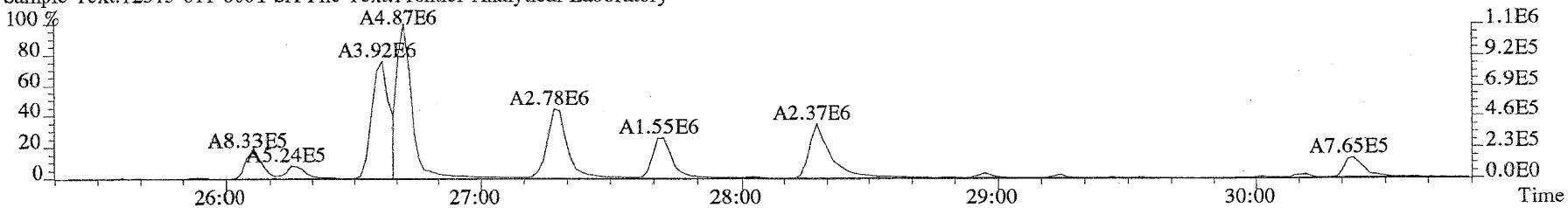
File:07AUG19Z #1-521 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-401 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-401 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-401 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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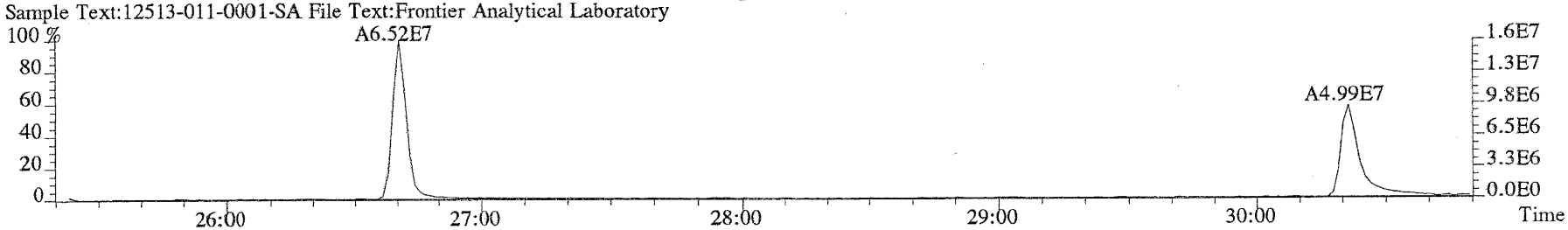

File:07AUG19Z #1-401 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
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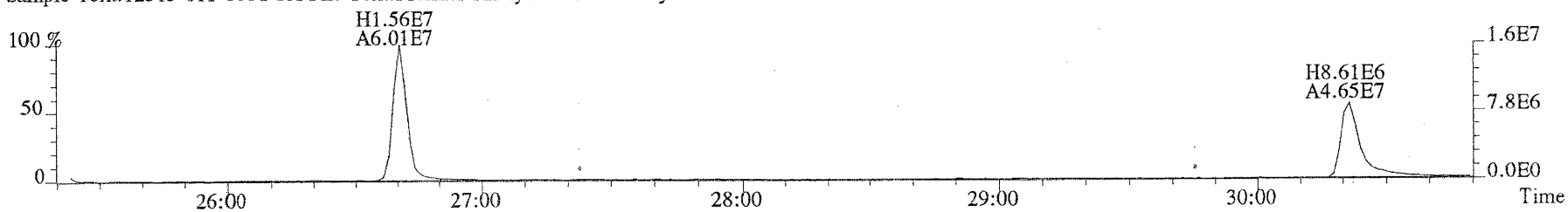
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



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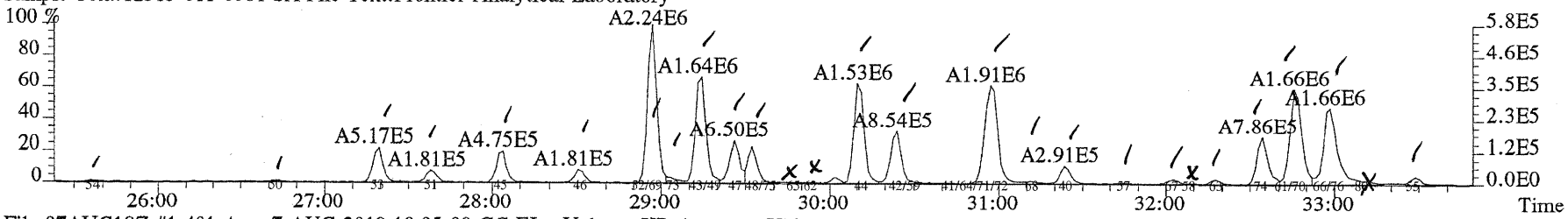
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



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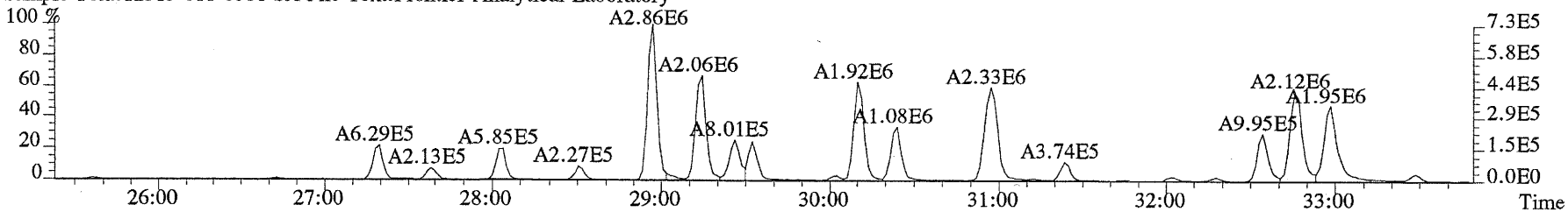
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



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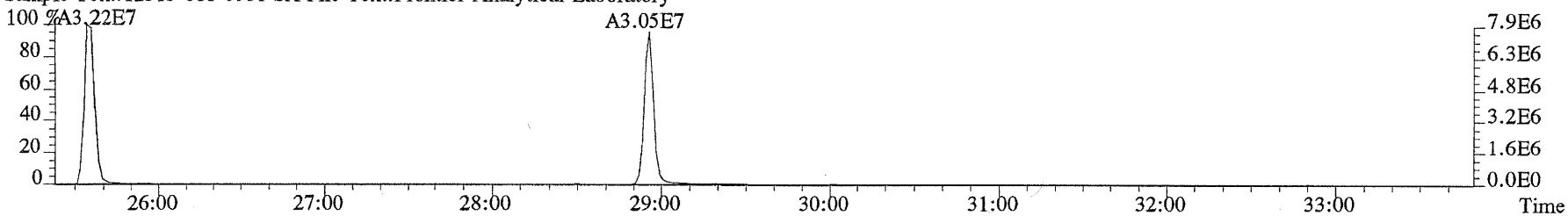

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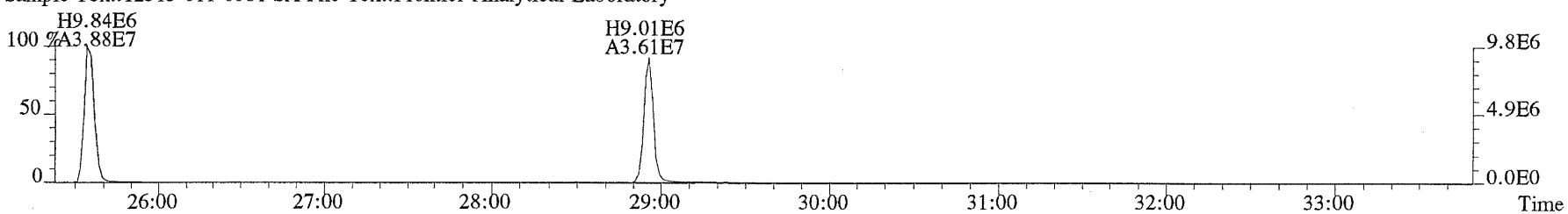

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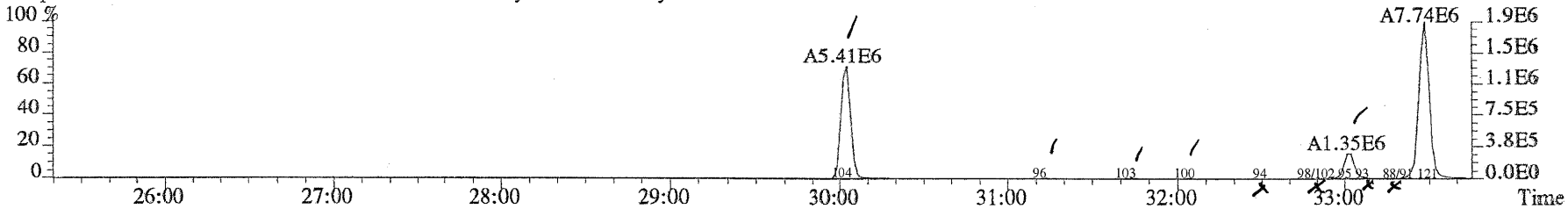
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



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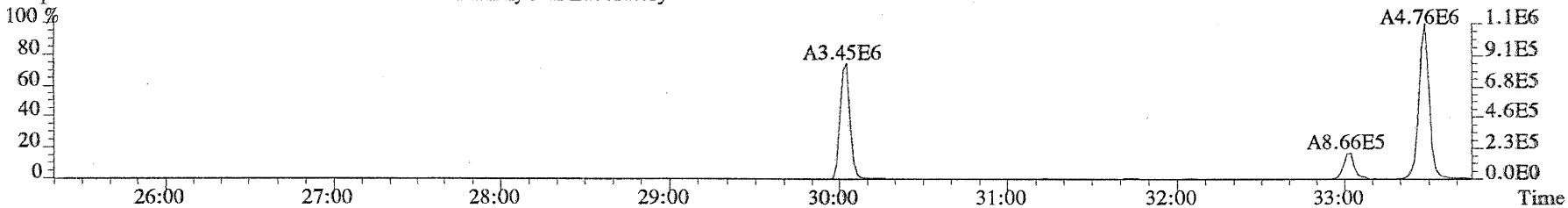
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



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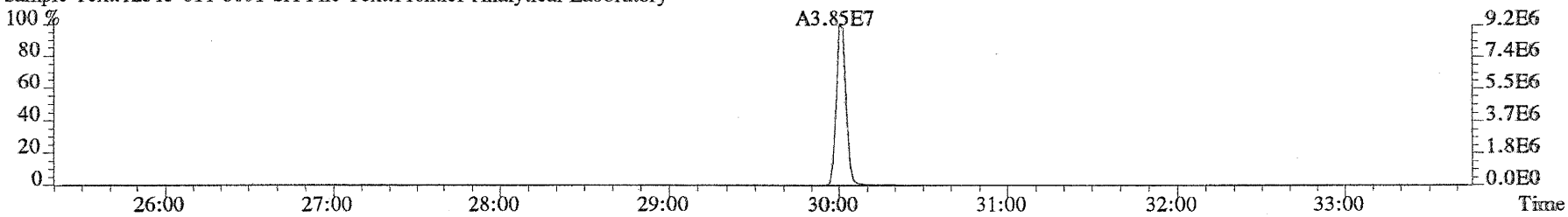

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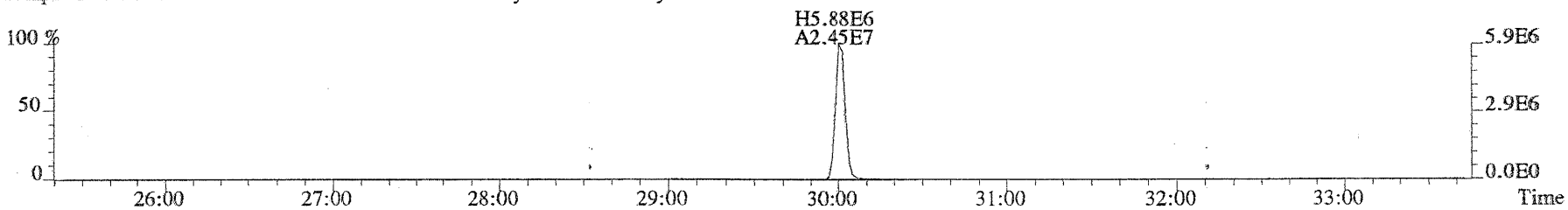
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



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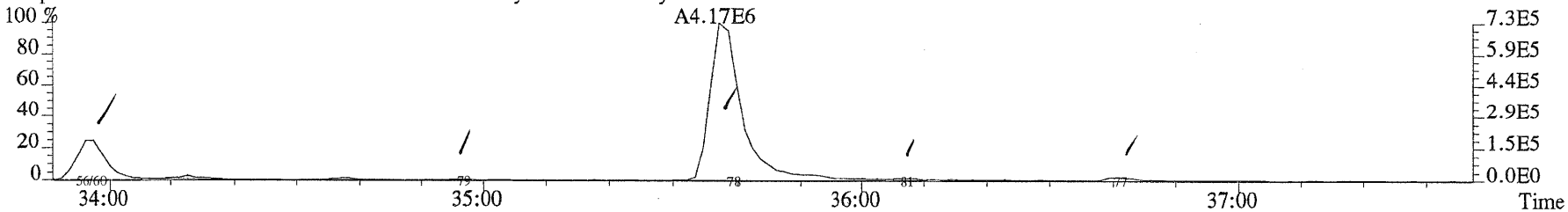
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



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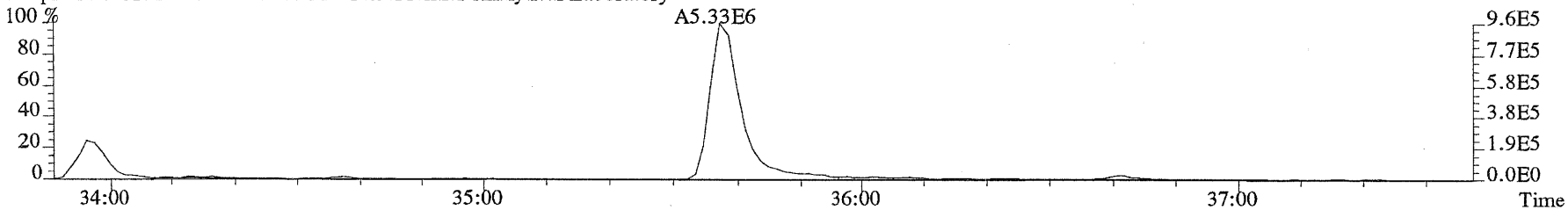

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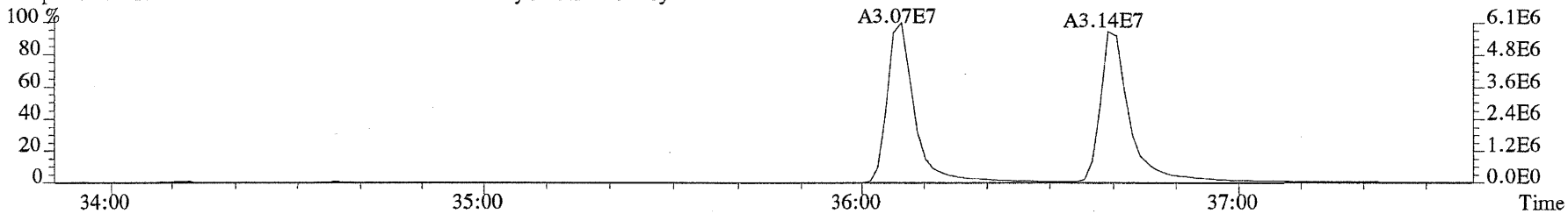

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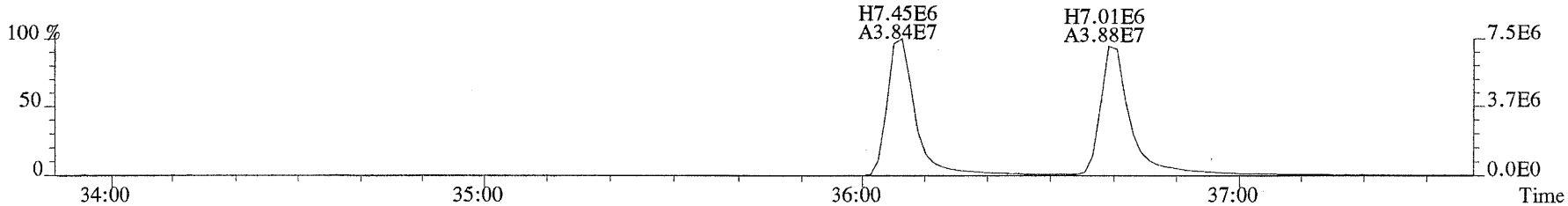
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-180 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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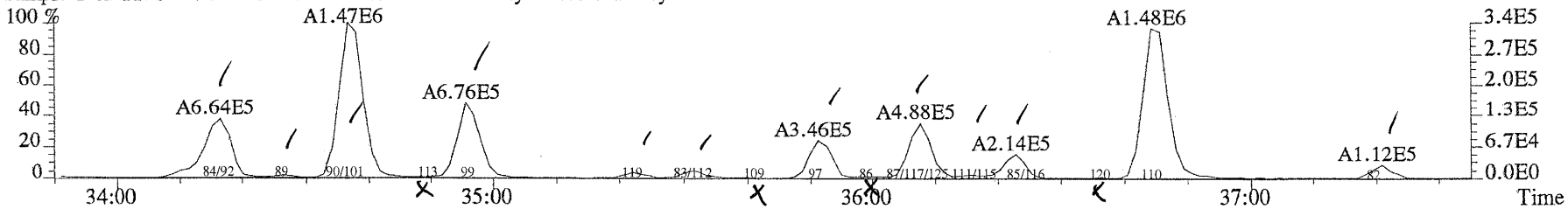

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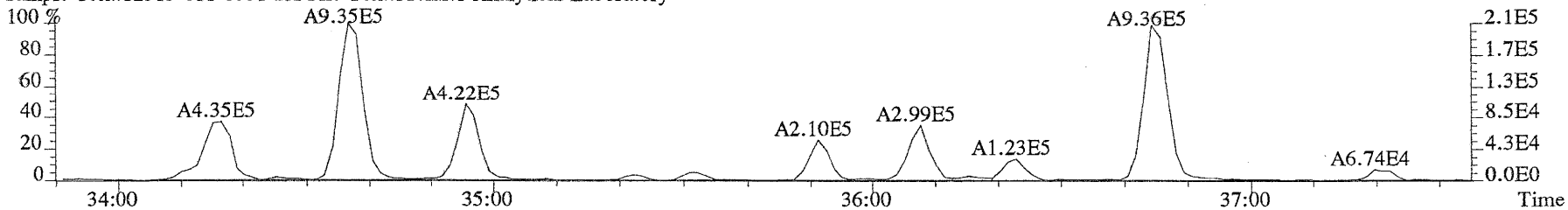

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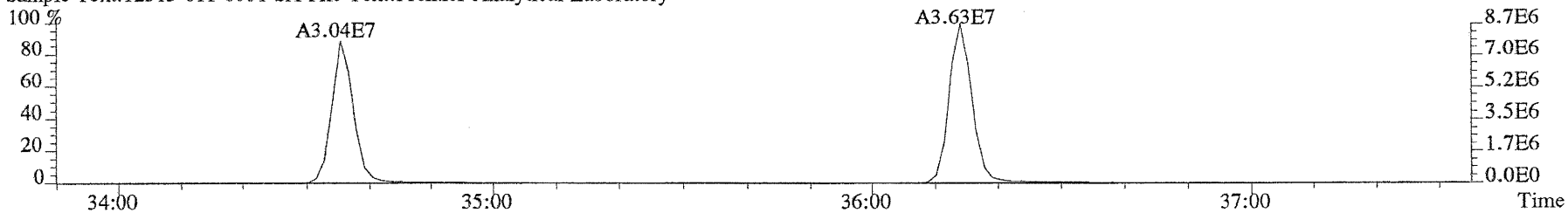
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



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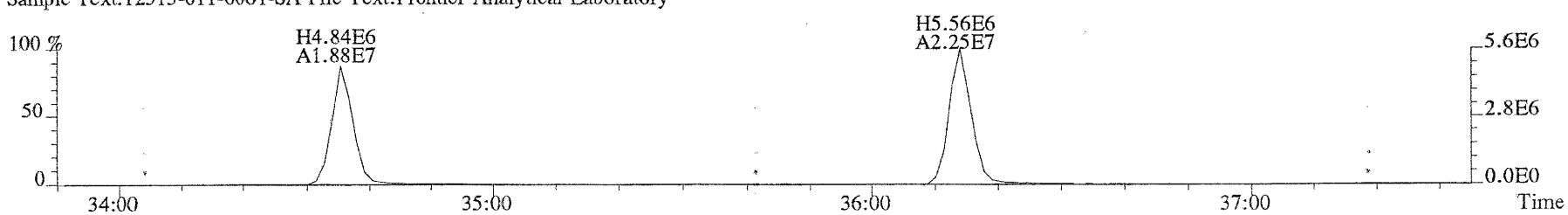

File:07AUG19Z #1-180 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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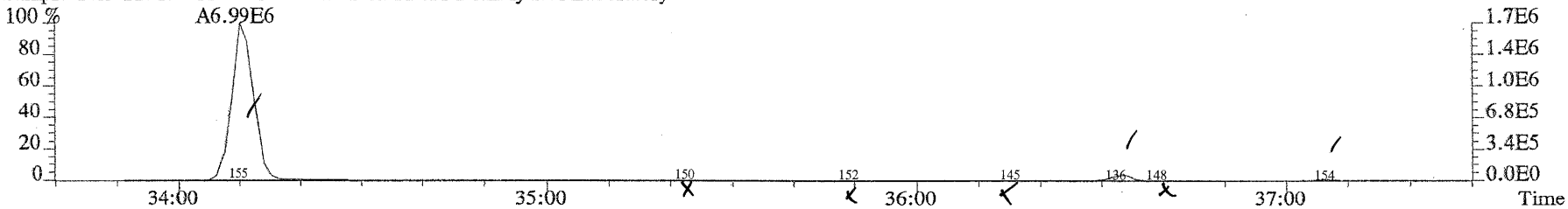

File:07AUG19Z #1-180 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
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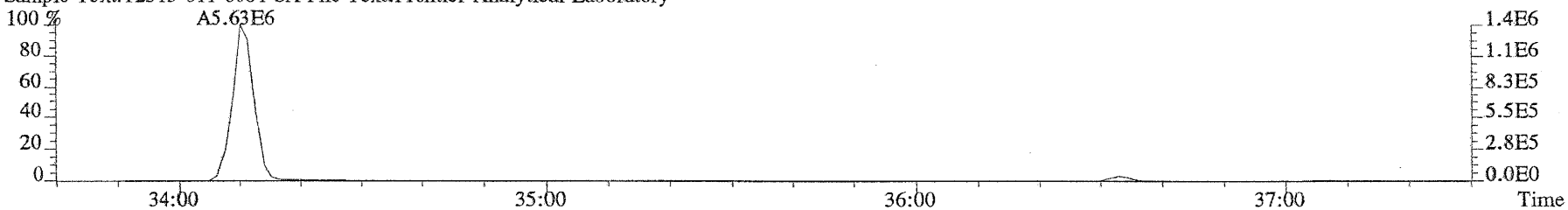
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



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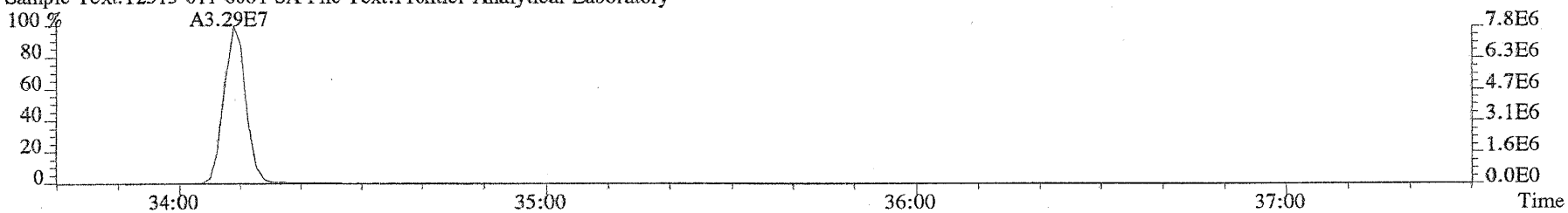

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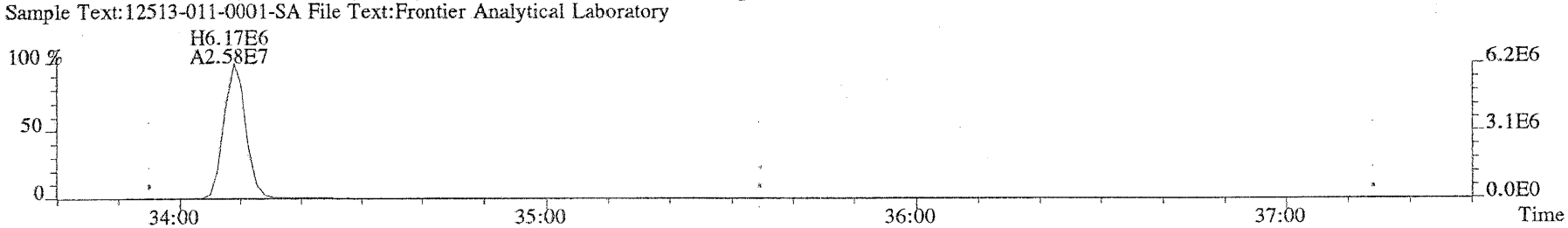

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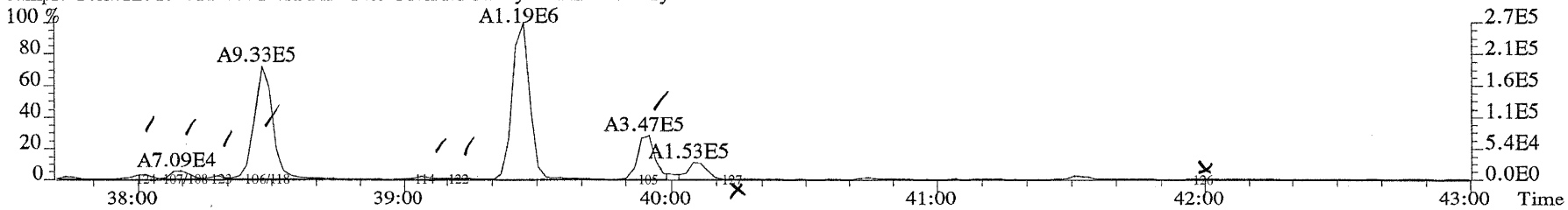
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



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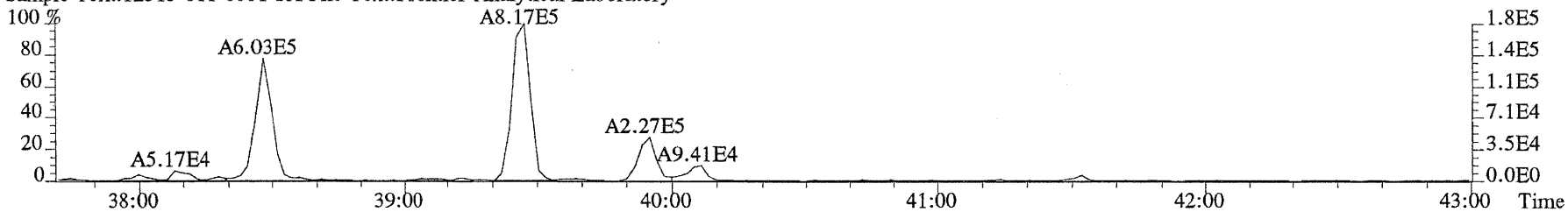

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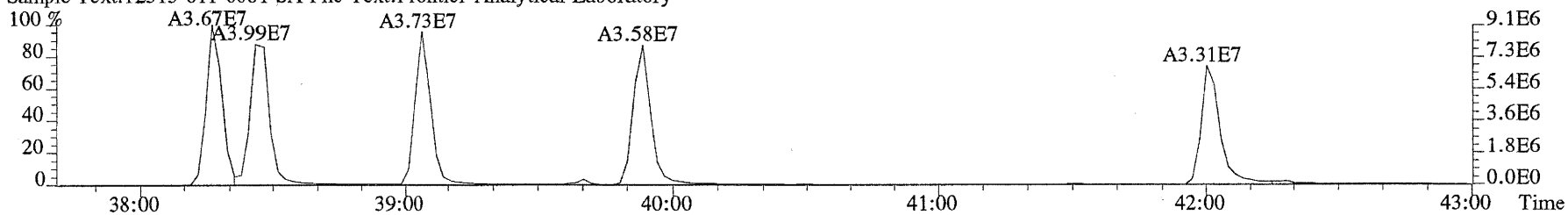

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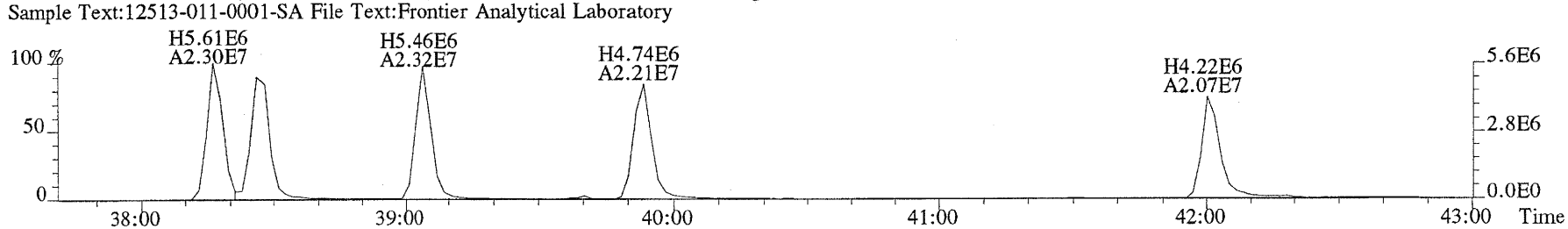
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



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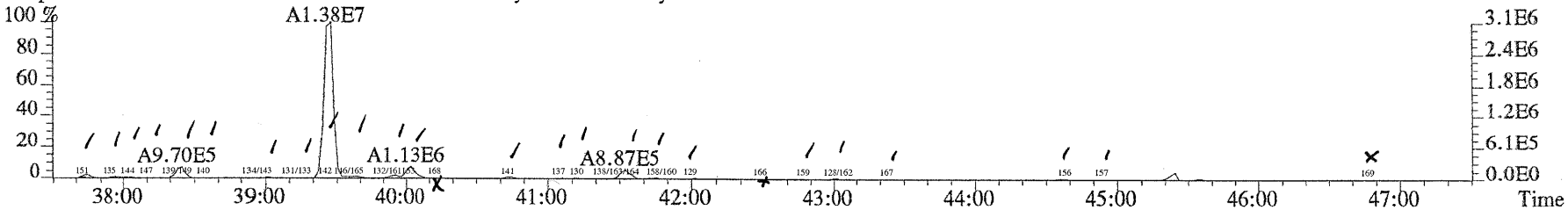

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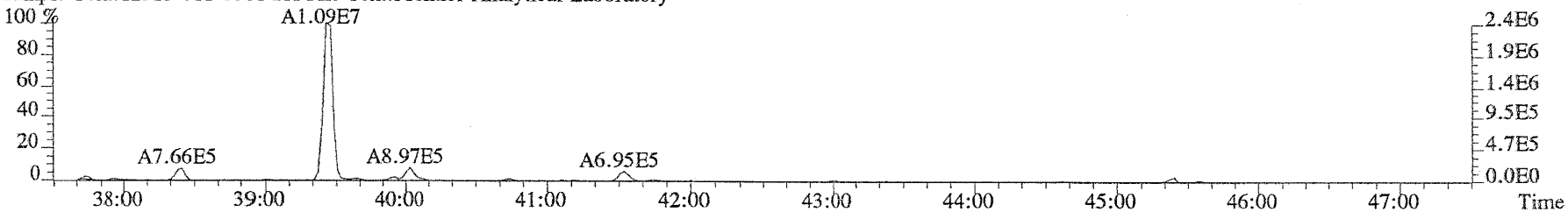
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



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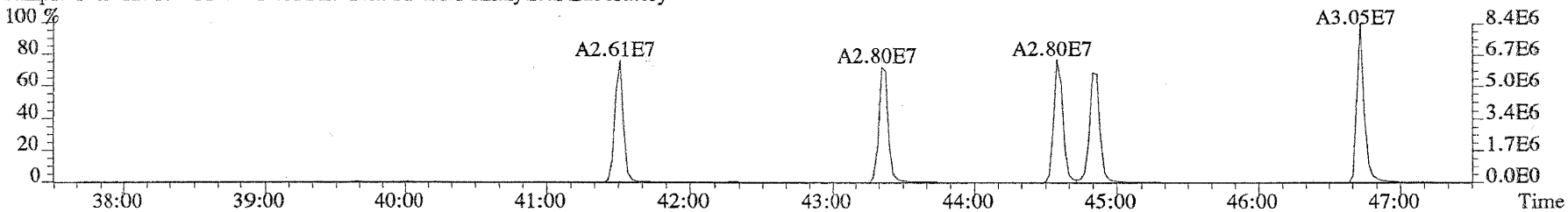

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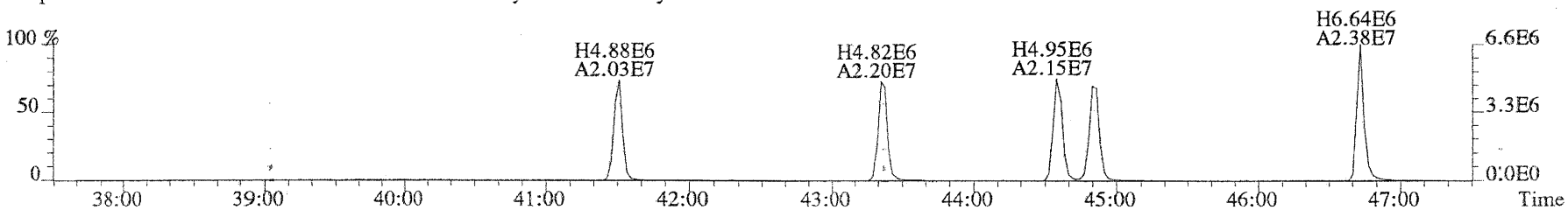

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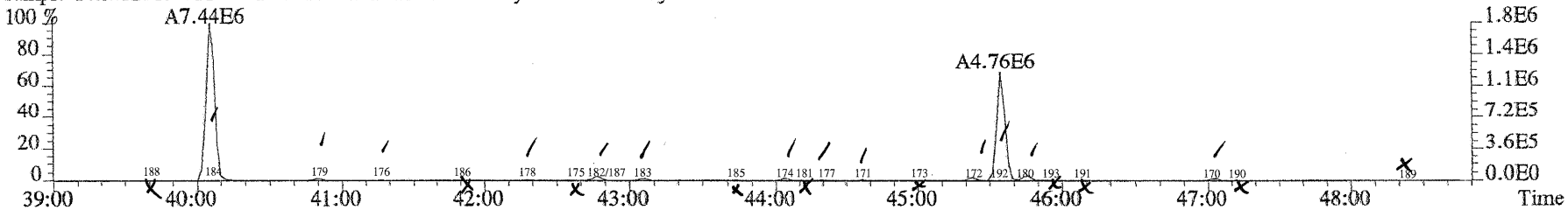

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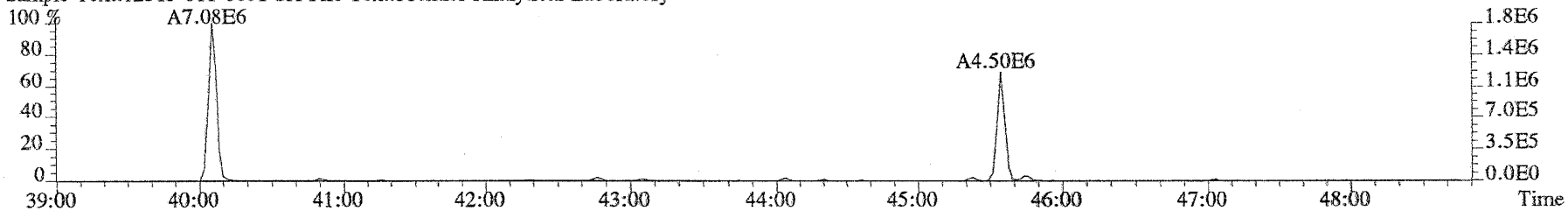

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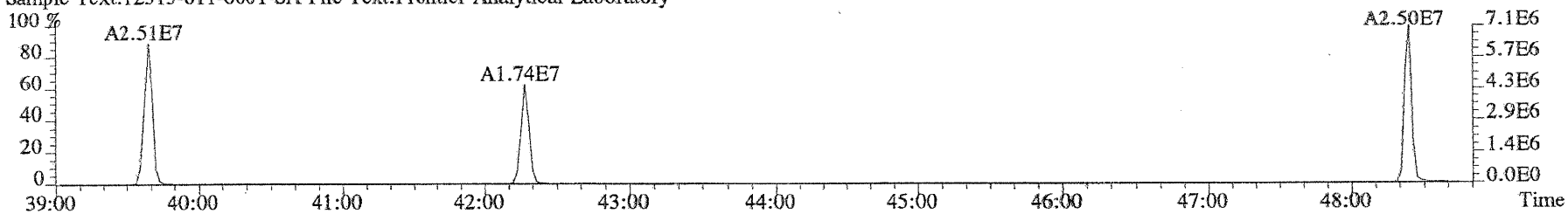
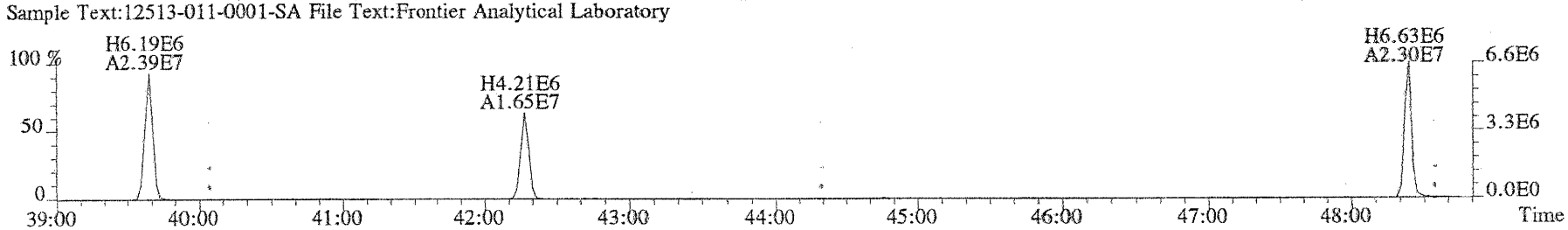
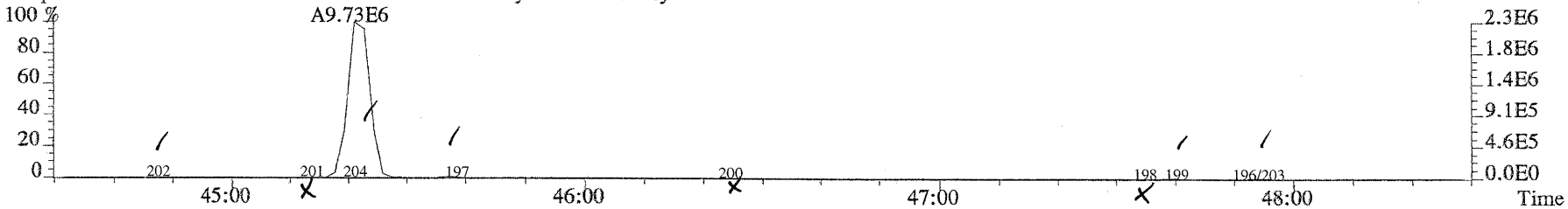


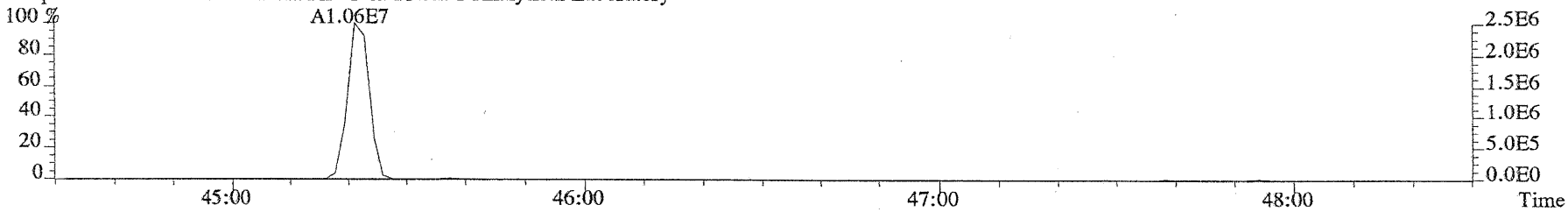
File:07AUG19Z #1-405 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



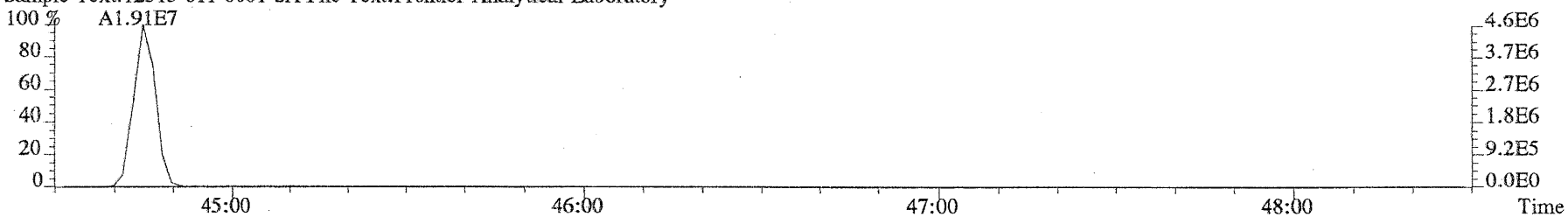
File:07AUG19Z #1-405 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



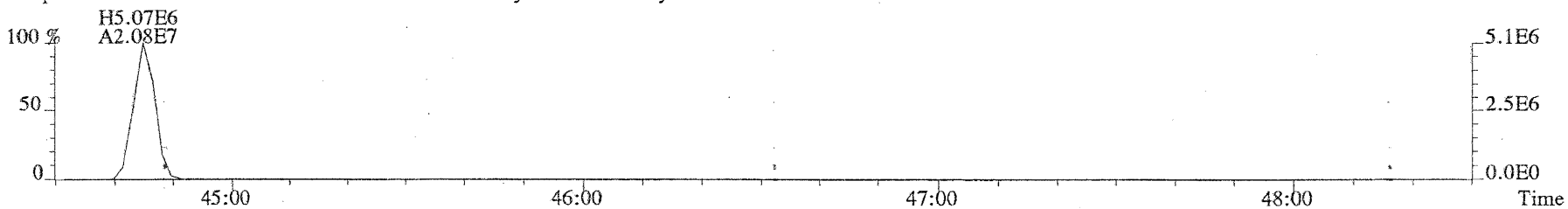
File:07AUG19Z #1-405 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



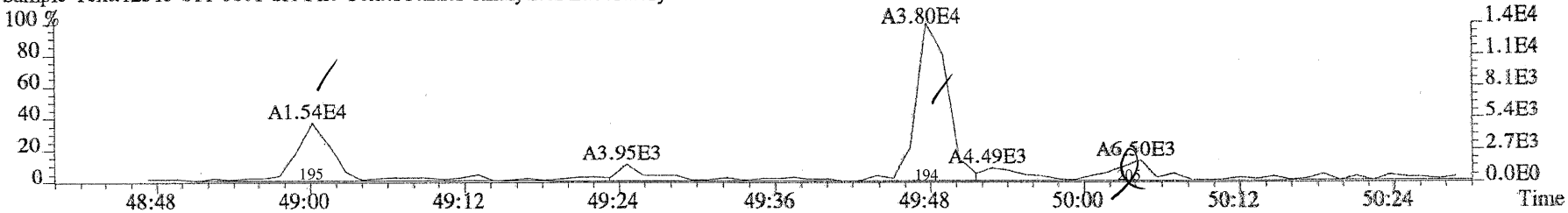
File:07AUG19Z #1-405 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



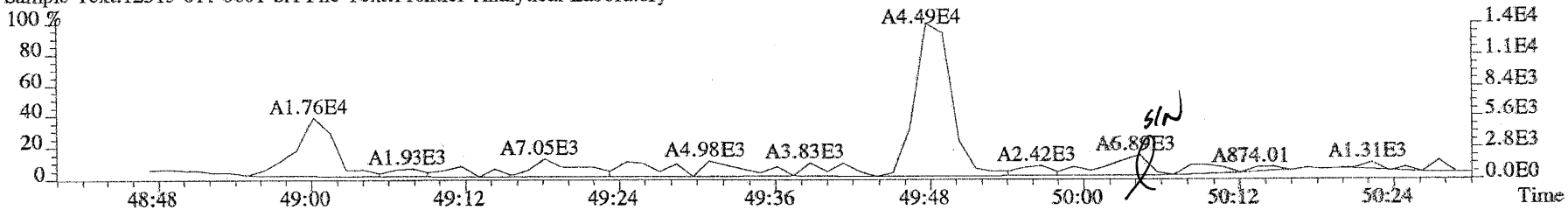
File:07AUG19Z #1-405 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



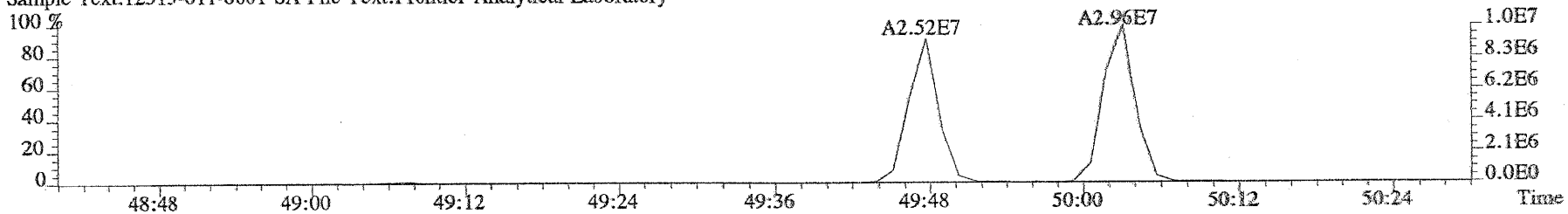
File:07AUG19Z #1-315 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



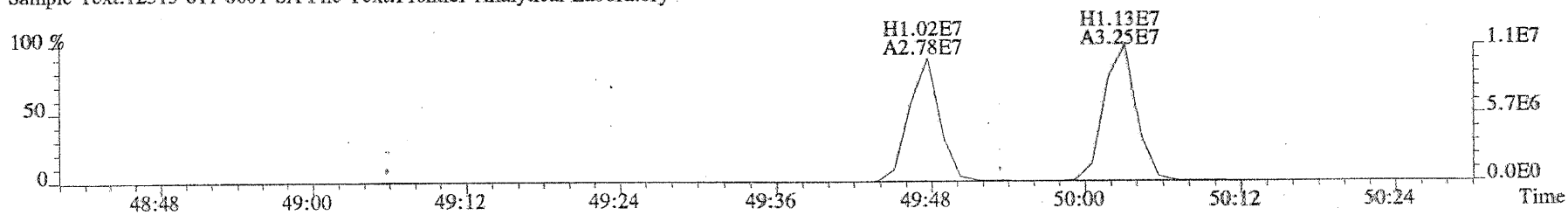
File:07AUG19Z #1-315 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



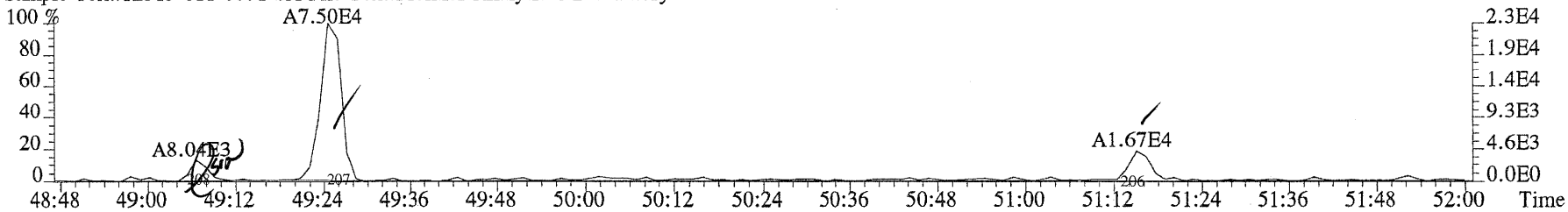
File:07AUG19Z #1-315 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



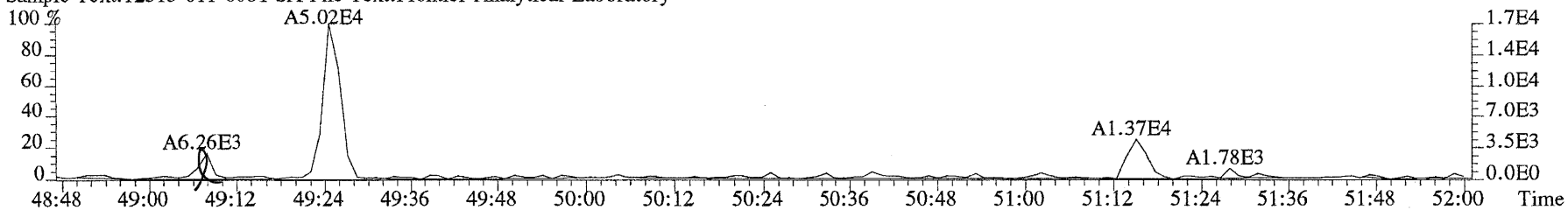
File:07AUG19Z #1-315 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-315 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-315 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



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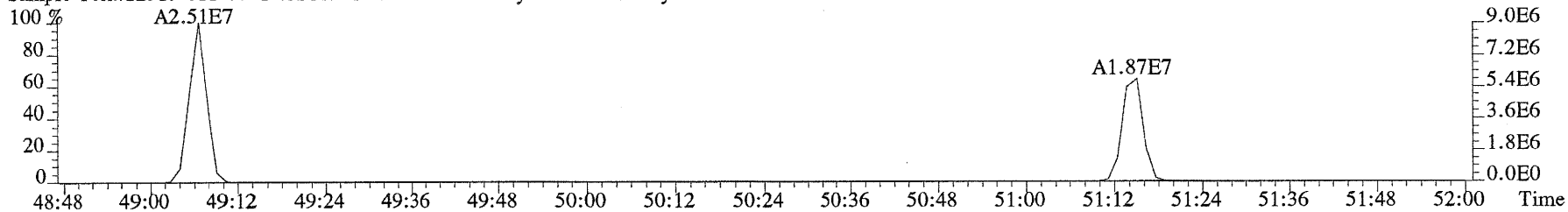
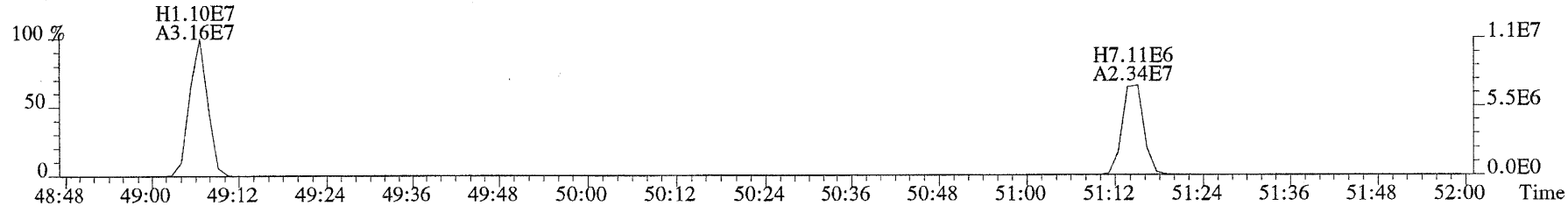
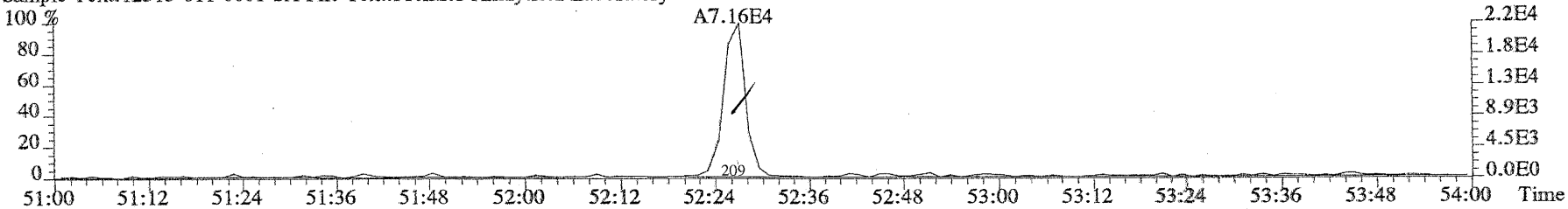
473.7648 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-315 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-315 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



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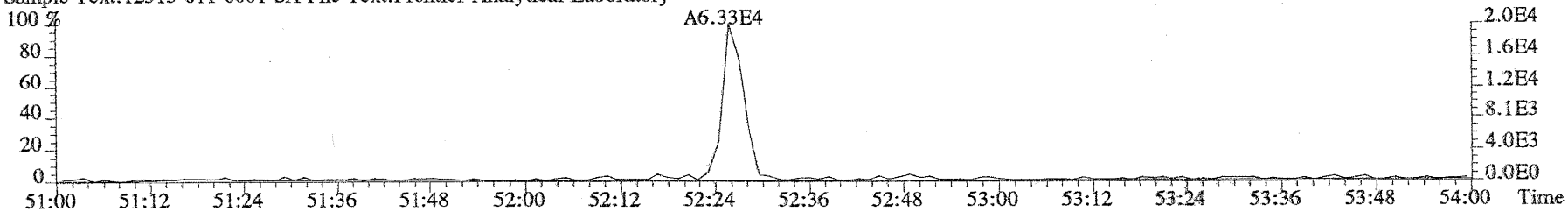
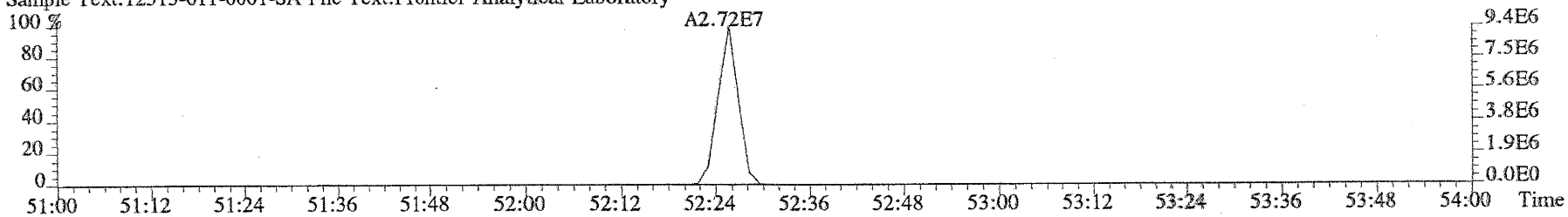
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-315 Acq: 7-AUG-2019 18:05:08 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



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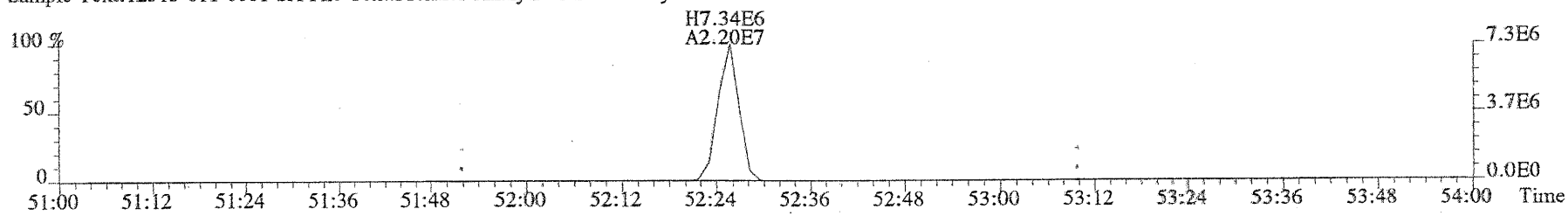
511.7199 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12513-011-0001-SA File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

Data Filename: 03APR19Z

Analyte: Cal: 1668FAL4-4-3-19

Name	RRF	S. D.	%RSD	S1 RRF#1	S2 RRF#2	S3 RRF#3	S4 RRF#4	S5 RRF#5	S6 RRF#6
PCB-1	1.19	0.0394	3.30 %	1.27	1.16	1.18	1.19	1.19	1.17
13C-PCB-1	1.02	0.101	9.92 %	0.83	1.00	1.02	1.05	1.12	1.08
PCB-3	1.18	0.0451	3.83 %	1.25	1.17	1.11	1.19	1.18	1.16
13C-PCB-3	0.97	0.0883	9.13 %	0.84	0.93	0.93	0.98	1.06	1.08
PCB-4	1.04	0.0465	4.45 %	1.14	1.03	1.02	1.02	1.02	1.04
13C-PCB-4	0.74	0.0321	4.35 %	0.68	0.74	0.77	0.72	0.74	0.77
PCB-15	1.03	0.0221	2.14 %	1.07	1.01	1.03	1.02	1.03	1.02
13C-PCB-15	0.96	0.130	13.6 %	0.86	0.89	0.90	0.93	0.99	1.21
PCB-19	1.11	0.0556	5.01 %	1.10	1.05	1.06	1.12	1.14	1.20
13C-PCB-19	0.53	0.0341	6.49 %	0.47	0.50	0.52	0.54	0.55	0.57
13C-PCB-9	-	-	- %	-	-	-	-	-	-
PCB-37	1.04	0.0411	3.96 %	1.05	0.97	1.00	1.06	1.06	1.07
13C-PCB-37	1.57	0.149	9.53 %	1.51	1.52	1.50	1.43	1.58	1.85
PCB-54	1.16	0.0325	2.80 %	1.17	1.11	1.16	1.19	1.20	1.15
13C-PCB-54	1.38	0.0477	3.45 %	1.30	1.38	1.37	1.40	1.43	1.42
PCB-104	1.08	0.0394	3.65 %	1.04	1.03	1.08	1.11	1.14	1.08
13C-PCB-104	1.11	0.0177	1.60 %	1.11	1.09	1.09	1.09	1.12	1.13
13C-PCB-28	1.71	0.0367	2.15 %	1.68	1.75	1.75	1.71	1.67	1.69
13C-PCB-52	-	-	- %	-	-	-	-	-	-
PCB-81	1.06	0.0343	3.22 %	1.09	1.03	1.02	1.07	1.11	1.07
13C-PCB-81	1.50	0.216	14.4 %	1.36	1.40	1.40	1.41	1.50	1.93
PCB-77	1.02	0.0412	4.03 %	1.07	0.98	0.98	1.02	1.07	1.02
13C-PCB-77	1.57	0.234	14.9 %	1.41	1.46	1.46	1.46	1.57	2.03
PCB-155	1.02	0.0252	2.46 %	1.04	0.98	1.01	1.03	1.05	1.03
13C-PCB-155	1.42	0.0794	5.60 %	1.30	1.41	1.38	1.41	1.47	1.54
13C-PCB-111	1.29	0.0452	3.50 %	1.21	1.28	1.28	1.30	1.32	1.34
13C-PCB-101	-	-	- %	-	-	-	-	-	-
PCB-123	1.03	0.0404	3.91 %	1.10	0.98	1.01	1.03	1.06	1.02
13C-PCB-123	1.40	0.121	8.63 %	1.31	1.36	1.32	1.32	1.44	1.62
PCB-118	1.02	0.0308	3.03 %	1.05	1.01	0.97	1.01	1.05	1.03
13C-PCB-118	1.53	0.142	9.23 %	1.45	1.45	1.47	1.48	1.55	1.81
PCB-114	1.01	0.0336	3.32 %	1.07	0.97	1.01	0.99	1.03	1.01
13C-PCB-114	1.45	0.169	11.7 %	1.34	1.37	1.36	1.38	1.45	1.78
PCB-105	1.02	0.0455	4.48 %	1.10	0.98	0.98	1.00	1.04	1.00
13C-PCB-105	1.44	0.170	11.8 %	1.34	1.36	1.34	1.36	1.47	1.77
PCB-126	1.02	0.0482	4.74 %	1.10	0.98	0.98	1.02	1.03	0.99
13C-PCB-126	1.37	0.170	12.4 %	1.27	1.31	1.28	1.27	1.40	1.70
PCB-167	1.07	0.0230	2.16 %	1.08	1.04	1.04	1.08	1.10	1.06
13C-PCB-167	1.28	0.145	11.3 %	1.21	1.21	1.21	1.19	1.32	1.56
PCB-156	1.10	0.0210	1.91 %	1.11	1.06	1.11	1.09	1.11	1.11
13C-PCB-156	1.24	0.108	8.74 %	1.15	1.19	1.17	1.19	1.28	1.44
PCB-157	1.06	0.0411	3.87 %	1.14	1.03	1.02	1.06	1.06	1.05
13C-PCB-157	1.34	0.187	14.0 %	1.22	1.25	1.23	1.23	1.40	1.69
PCB-169	1.06	0.0264	2.49 %	1.06	1.02	1.06	1.09	1.09	1.05
13C-PCB-169	1.24	0.156	12.5 %	1.15	1.20	1.15	1.14	1.28	1.54
PCB-188	1.02	0.0577	5.68 %	0.98	0.94	0.99	1.05	1.09	1.05
13C-PCB-188	1.29	0.0657	5.10 %	1.29	1.25	1.25	1.25	1.27	1.42
PCB-189	0.99	0.0592	5.96 %	1.01	0.92	0.96	0.99	1.10	0.98
13C-PCB-189	1.07	0.111	10.4 %	1.00	1.05	1.02	1.00	1.05	1.29
PCB-202	0.99	0.0469	4.75 %	1.00	0.94	0.96	1.03	1.06	0.94
13C-PCB-202	1.09	0.0625	5.74 %	1.05	1.08	1.06	1.05	1.07	1.21
13C-PCB-178	0.81	0.0127	1.57 %	0.78	0.81	0.82	0.80	0.81	0.80
13C-PCB-138	-	-	- %	-	-	-	-	-	-

PCB-205	1.02	0.0515	5.03 %	1.03	1.01	1.02	1.05	1.09	0.93
13C-PCB-205	1.40	0.0979	6.99 %	1.33	1.35	1.33	1.37	1.44	1.58
PCB-208	0.98	0.0378	3.88 %	0.99	0.96	0.97	1.01	1.01	0.91
13C-PCB-208	1.36	0.0808	5.93 %	1.36	1.35	1.23	1.38	1.37	1.48
PCB-206	0.99	0.0475	4.78 %	0.96	0.96	1.00	1.03	1.07	0.95
13C-PCB-206	1.01	0.0303	3.01 %	1.03	0.99	0.96	0.99	1.02	1.05
PCB-209	1.09	0.0749	6.87 %	1.18	1.03	1.07	1.12	1.15	0.99
13C-PCB-209	1.21	0.0602	4.97 %	1.11	1.23	1.18	1.21	1.25	1.29
13C-PCB-194	-	-	- %	-	-	-	-	-	-

Analyst: _____ Date: 4/3/19

Run #1 Filename 03APR19Z S: 1 Acquired: 3-APR-19 07:41:54 Cal: 1668FAL4-4-3-19
Client ID: ST040319Z0 Analyte: FAL ID: 1668 CS077 R170821A

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	0.20	3.42e+05	3.18	y	14:32	-	1.27	y
2	IS/RT	13C-PCB-1	100.00	1.34e+08	3.30	y	14:31	-	0.830	y
3	Unk	PCB-3	0.20	3.39e+05	3.26	y	16:58	-	1.25	y
4	IS/RT	13C-PCB-3	100.00	1.36e+08	3.28	y	16:56	-	0.840	y
5	Unk	PCB-4	0.20	2.51e+05	1.33	y	18:12	-	1.14	y
6	IS/RT	13C-PCB-4	100.00	1.11e+08	1.57	y	18:11	-	0.683	y
7	Unk	PCB-15	0.20	2.99e+05	1.50	y	23:45	-	1.07	y
8	IS/RT	13C-PCB-15	100.00	1.40e+08	1.57	y	23:43	-	0.863	y
9	Unk	PCB-19	0.20	1.68e+05	1.10	y	22:05	-	1.10	y
10	IS/RT	13C-PCB-19	100.00	7.65e+07	1.06	y	22:04	-	0.473	y
11	RS	13C-PCB-9	100.00	1.62e+08	1.61	y	19:51	1.62e+06	-	n
12	Unk	PCB-37	0.20	2.42e+05	1.09	y	30:26	-	1.05	y
13	IS	13C-PCB-37	100.00	1.15e+08	1.08	y	30:25	-	1.51	y
14	Unk	PCB-54	0.20	2.30e+05	0.76	y	25:39	-	1.17	y
15	IS/RT	13C-PCB-54	100.00	9.85e+07	0.81	y	25:38	-	1.30	y
16	Unk	PCB-104	0.20	1.76e+05	1.57	y	30:07	-	1.04	y
17	IS	13C-PCB-104	100.00	8.44e+07	1.60	y	30:06	-	1.11	y
18	C/Up	13C-PCB-28	100.00	1.27e+08	1.06	y	26:42	-	1.68	y
19	RS	13C-PCB-52	100.00	7.59e+07	0.80	y	29:00	7.59e+05	-	n
20	Unk	PCB-81	0.20	2.05e+05	0.76	y	36:12	-	1.09	y
21	IS	13C-PCB-81	100.00	9.38e+07	0.78	y	36:12	-	1.36	y
22	Unk	PCB-77	0.20	2.07e+05	0.81	y	36:48	-	1.07	y
23	IS/RT	13C-PCB-77	100.00	9.72e+07	0.79	y	36:45	-	1.41	y
24	Unk	PCB-155	0.20	1.86e+05	1.23	y	34:17	-	1.04	y
25	IS	13C-PCB-155	100.00	8.96e+07	1.28	y	34:16	-	1.30	y
26	C/Up	13C-PCB-111	100.00	8.34e+07	1.59	y	36:21	-	1.21	y
27	RS	13C-PCB-101	100.00	6.87e+07	1.60	y	34:42	6.87e+05	-	n
28	Unk	PCB-123	0.20	1.91e+05	1.44	y	38:25	-	1.10	y
29	IS	13C-PCB-123	100.00	8.71e+07	1.59	y	38:24	-	1.31	y
30	Unk	PCB-118	0.20	2.02e+05	1.48	y	38:35	-	1.05	y
31	IS	13C-PCB-118	100.00	9.61e+07	1.62	y	38:33	-	1.45	y
32	Unk	PCB-114	0.20	1.90e+05	1.36	y	39:13	-	1.07	y
33	IS	13C-PCB-114	100.00	8.93e+07	1.61	y	39:11	-	1.34	y
34	Unk	PCB-105	0.20	1.95e+05	1.62	y	40:01	-	1.10	y
35	IS	13C-PCB-105	100.00	8.89e+07	1.60	y	40:01	-	1.34	y
36	Unk	PCB-126	0.20	1.86e+05	1.37	y	42:09	-	1.10	y
37	IS	13C-PCB-126	100.00	8.43e+07	1.61	y	42:07	-	1.27	y
38	Unk	PCB-167	0.20	1.74e+05	1.21	y	43:30	-	1.08	y
39	IS	13C-PCB-167	100.00	8.02e+07	1.28	y	43:30	-	1.21	y
40	Unk	PCB-156	0.20	1.70e+05	1.31	y	44:44	-	1.11	y
41	IS	13C-PCB-156	100.00	7.66e+07	1.29	y	44:44	-	1.15	y
42	Unk	PCB-157	0.20	1.85e+05	1.31	y	44:59	-	1.14	y
43	IS	13C-PCB-157	100.00	8.11e+07	1.29	y	44:59	-	1.22	y
44	Unk	PCB-169	0.20	1.63e+05	1.40	y	46:51	-	1.06	y
45	IS	13C-PCB-169	100.00	7.66e+07	1.31	y	46:49	-	1.15	y
46	Unk	PCB-188	0.20	1.68e+05	1.00	y	39:47	-	0.978	y
47	IS	13C-PCB-188	100.00	8.59e+07	1.07	y	39:46	-	1.29	y
48	Unk	PCB-189	0.20	1.34e+05	1.07	y	48:29	-	1.01	y
49	IS	13C-PCB-189	100.00	6.62e+07	1.06	y	48:29	-	0.997	y
50	Unk	PCB-202	0.20	1.39e+05	0.93	y	44:55	-	0.997	y
51	IS	13C-PCB-202	100.00	6.95e+07	0.91	y	44:54	-	1.05	y
52	C/Up	13C-PCB-178	100.00	5.21e+07	1.07	y	42:24	-	0.784	y
53	RS	13C-PCB-138	100.00	6.64e+07	1.28	y	41:38	6.64e+05	-	n

54	Unk	PCB-205	0.20	1.68e+05	0.90	y	50:09	-	1.03	y
55	IS	13C-PCB-205	100.00	8.13e+07	0.89	y	50:08	-	1.33	y
56	Unk	PCB-208	0.20	1.64e+05	1.42	y	49:12	-	0.991	y
57	IS	13C-PCB-208	100.00	8.30e+07	0.81	y	49:12	-	1.36	y
58	Unk	PCB-206	0.20	1.20e+05	1.48	y	51:21	-	0.956	y
59	IS	13C-PCB-206	100.00	6.26e+07	0.79	y	51:21	-	1.03	y
60	Unk	PCB-209	0.20	1.61e+05	1.20	y	52:31	-	1.18	y
61	IS	13C-PCB-209	100.00	6.79e+07	1.21	y	52:31	-	1.11	y
62	RS	13C-PCB-194	100.00	6.09e+07	0.91	y	49:52	6.09e+05	-	n

Analyst: _____ Date: 4/3/19

Run #2 Filename 03APR19Z S: 2 Acquired: 3-APR-19 08:40:14 Cal: 1668FAL4-4-3-19
Client ID: ST040319Z1 Analyte: FAL ID: 1668 CS177 R170213A

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	1.00	1.18e+06	3.28	y	14:36	-	1.16	y
2	IS/RT	13C-PCB-1	100.00	1.01e+08	3.26	y	14:35	-	1.00	y
3	Unk	PCB-3	1.00	1.10e+06	3.31	y	17:02	-	1.17	y
4	IS/RT	13C-PCB-3	100.00	9.39e+07	3.25	y	17:01	-	0.931	y
5	Unk	PCB-4	1.00	7.72e+05	1.34	y	18:16	-	1.03	y
6	IS/RT	13C-PCB-4	100.00	7.48e+07	1.61	y	18:15	-	0.742	y
7	Unk	PCB-15	1.00	9.02e+05	1.44	y	23:48	-	1.01	y
8	IS/RT	13C-PCB-15	100.00	8.93e+07	1.57	y	23:47	-	0.886	y
9	Unk	PCB-19	1.00	5.32e+05	1.08	y	22:09	-	1.05	y
10	IS/RT	13C-PCB-19	100.00	5.07e+07	1.07	y	22:08	-	0.503	y
11	RS	13C-PCB-9	100.00	1.01e+08	1.59	y	19:56	1.01e+06	-	n
12	Unk	PCB-37	1.00	6.96e+05	1.07	y	30:27	-	0.970	y
13	IS	13C-PCB-37	100.00	7.17e+07	1.06	y	30:26	-	1.52	y
14	Unk	PCB-54	1.00	7.25e+05	0.81	y	25:42	-	1.11	y
15	IS/RT	13C-PCB-54	100.00	6.53e+07	0.82	y	25:40	-	1.38	y
16	Unk	PCB-104	1.00	5.33e+05	1.54	y	30:08	-	1.03	y
17	IS	13C-PCB-104	100.00	5.16e+07	1.59	y	30:06	-	1.09	y
18	C/Up	13C-PCB-28	100.00	8.29e+07	1.06	y	26:45	-	1.75	y
19	RS	13C-PCB-52	100.00	4.73e+07	0.80	y	29:01	4.73e+05	-	n
20	Unk	PCB-81	1.00	5.79e+05	0.82	y	36:13	-	1.03	y
21	IS	13C-PCB-81	100.00	5.64e+07	0.79	y	36:11	-	1.40	y
22	Unk	PCB-77	1.00	5.75e+05	0.75	y	36:46	-	0.976	y
23	IS/RT	13C-PCB-77	100.00	5.89e+07	0.78	y	36:45	-	1.46	y
24	Unk	PCB-155	1.00	5.56e+05	1.26	y	34:17	-	0.980	y
25	IS	13C-PCB-155	100.00	5.67e+07	1.26	y	34:16	-	1.41	y
26	C/Up	13C-PCB-111	100.00	5.14e+07	1.61	y	36:21	-	1.28	y
27	RS	13C-PCB-101	100.00	4.03e+07	1.60	y	34:42	4.03e+05	-	n
28	Unk	PCB-123	1.00	5.14e+05	1.64	y	38:25	-	0.981	y
29	IS	13C-PCB-123	100.00	5.24e+07	1.58	y	38:24	-	1.36	y
30	Unk	PCB-118	1.00	5.63e+05	1.48	y	38:35	-	1.01	y
31	IS	13C-PCB-118	100.00	5.59e+07	1.59	y	38:33	-	1.45	y
32	Unk	PCB-114	1.00	5.14e+05	1.55	y	39:11	-	0.972	y
33	IS	13C-PCB-114	100.00	5.28e+07	1.58	y	39:11	-	1.37	y
34	Unk	PCB-105	1.00	5.17e+05	1.47	y	40:01	-	0.983	y
35	IS	13C-PCB-105	100.00	5.26e+07	1.59	y	39:59	-	1.36	y
36	Unk	PCB-126	1.00	4.93e+05	1.58	y	42:09	-	0.975	y
37	IS	13C-PCB-126	100.00	5.05e+07	1.59	y	42:07	-	1.31	y
38	Unk	PCB-167	1.00	4.87e+05	1.28	y	43:30	-	1.04	y
39	IS	13C-PCB-167	100.00	4.67e+07	1.30	y	43:28	-	1.21	y
40	Unk	PCB-156	1.00	4.86e+05	1.23	y	44:44	-	1.06	y
41	IS	13C-PCB-156	100.00	4.60e+07	1.32	y	44:42	-	1.19	y
42	Unk	PCB-157	1.00	4.98e+05	1.28	y	44:59	-	1.03	y
43	IS	13C-PCB-157	100.00	4.82e+07	1.29	y	44:57	-	1.25	y
44	Unk	PCB-169	1.00	4.72e+05	1.25	y	46:49	-	1.02	y
45	IS	13C-PCB-169	100.00	4.63e+07	1.29	y	46:49	-	1.20	y
46	Unk	PCB-188	1.00	4.52e+05	1.01	y	39:48	-	0.938	y
47	IS	13C-PCB-188	100.00	4.82e+07	1.04	y	39:46	-	1.25	y
48	Unk	PCB-189	1.00	3.73e+05	1.08	y	48:29	-	0.922	y
49	IS	13C-PCB-189	100.00	4.04e+07	1.07	y	48:29	-	1.05	y
50	Unk	PCB-202	1.00	3.96e+05	0.92	y	44:54	-	0.944	y
51	IS	13C-PCB-202	100.00	4.19e+07	0.91	y	44:52	-	1.08	y
52	C/Up	13C-PCB-178	100.00	3.15e+07	1.05	y	42:24	-	0.814	y
53	RS	13C-PCB-138	100.00	3.87e+07	1.29	y	41:38	3.87e+05	-	n

54	Unk	PCB-205	1.00	5.02e+05	0.89	y	50:09	-	1.01	y
55	IS	13C-PCB-205	100.00	4.96e+07	0.91	y	50:08	-	1.35	y
56	Unk	PCB-208	1.00	4.77e+05	1.34	y	49:12	-	0.961	y
57	IS	13C-PCB-208	100.00	4.97e+07	0.81	y	49:11	-	1.35	y
58	Unk	PCB-206	1.00	3.52e+05	1.37	y	51:21	-	0.961	y
59	IS	13C-PCB-206	100.00	3.66e+07	0.81	y	51:20	-	0.993	y
60	Unk	PCB-209	1.00	4.67e+05	1.21	y	52:32	-	1.03	y
61	IS	13C-PCB-209	100.00	4.53e+07	1.21	y	52:30	-	1.23	y
62	RS	13C-PCB-194	100.00	3.69e+07	0.90	y	49:52	3.69e+05	-	n

Analyst: [signature] Date: 4/3/19

Run #3 Filename 03APR19Z S: 3 Acquired: 3-APR-19 09:38:36 Cal: 1668FAL4-4-3-19
Client ID: ST040319Z2 Analyte: FAL ID: 1668 CS277 R170213B

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	5.00	3.43e+06	3.20 y	14:36	-	1.18	y
2	IS/RT	13C-PCB-1	100.00	5.81e+07	3.23 y	14:35	-	1.02	y
3	Unk	PCB-3	5.00	2.91e+06	3.01 y	17:02	-	1.11	y
4	IS/RT	13C-PCB-3	100.00	5.26e+07	3.26 y	17:01	-	0.927	y
5	Unk	PCB-4	5.00	2.21e+06	1.39 y	18:16	-	1.02	y
6	IS/RT	13C-PCB-4	100.00	4.36e+07	1.56 y	18:15	-	0.768	y
7	Unk	PCB-15	5.00	2.63e+06	1.35 y	23:48	-	1.03	y
8	IS/RT	13C-PCB-15	100.00	5.09e+07	1.59 y	23:47	-	0.897	y
9	Unk	PCB-19	5.00	1.56e+06	1.07 y	22:10	-	1.06	y
10	IS/RT	13C-PCB-19	100.00	2.95e+07	1.08 y	22:08	-	0.521	y
11	RS	13C-PCB-9	100.00	5.67e+07	1.59 y	19:55	5.67e+05	-	n
12	Unk	PCB-37	5.00	2.05e+06	1.06 y	30:27	-	1.00	y
13	IS	13C-PCB-37	100.00	4.09e+07	1.08 y	30:26	-	1.50	y
14	Unk	PCB-54	5.00	2.16e+06	0.81 y	25:41	-	1.16	y
15	IS/RT	13C-PCB-54	100.00	3.73e+07	0.80 y	25:40	-	1.37	y
16	Unk	PCB-104	5.00	1.61e+06	1.54 y	30:07	-	1.08	y
17	IS	13C-PCB-104	100.00	2.98e+07	1.61 y	30:06	-	1.09	y
18	C/Up	13C-PCB-28	100.00	4.78e+07	1.07 y	26:45	-	1.75	y
19	RS	13C-PCB-52	100.00	2.73e+07	0.80 y	29:01	2.73e+05	-	n
20	Unk	PCB-81	5.00	1.66e+06	0.81 y	36:13	-	1.02	y
21	IS	13C-PCB-81	100.00	3.24e+07	0.78 y	36:12	-	1.40	y
22	Unk	PCB-77	5.00	1.66e+06	0.79 y	36:47	-	0.979	y
23	IS/RT	13C-PCB-77	100.00	3.39e+07	0.78 y	36:46	-	1.46	y
24	Unk	PCB-155	5.00	1.62e+06	1.21 y	34:17	-	1.01	y
25	IS	13C-PCB-155	100.00	3.20e+07	1.30 y	34:16	-	1.38	y
26	C/Up	13C-PCB-111	100.00	2.97e+07	1.60 y	36:21	-	1.28	y
27	RS	13C-PCB-101	100.00	2.32e+07	1.62 y	34:42	2.32e+05	-	n
28	Unk	PCB-123	5.00	1.53e+06	1.52 y	38:23	-	1.01	y
29	IS	13C-PCB-123	100.00	3.02e+07	1.57 y	38:23	-	1.32	y
30	Unk	PCB-118	5.00	1.63e+06	1.53 y	38:35	-	0.972	y
31	IS	13C-PCB-118	100.00	3.35e+07	1.58 y	38:33	-	1.47	y
32	Unk	PCB-114	5.00	1.58e+06	1.51 y	39:11	-	1.01	y
33	IS	13C-PCB-114	100.00	3.11e+07	1.58 y	39:11	-	1.36	y
34	Unk	PCB-105	5.00	1.50e+06	1.50 y	40:00	-	0.978	y
35	IS	13C-PCB-105	100.00	3.06e+07	1.60 y	39:59	-	1.34	y
36	Unk	PCB-126	5.00	1.42e+06	1.58 y	42:09	-	0.976	y
37	IS	13C-PCB-126	100.00	2.91e+07	1.62 y	42:07	-	1.28	y
38	Unk	PCB-167	5.00	1.44e+06	1.27 y	43:30	-	1.04	y
39	IS	13C-PCB-167	100.00	2.76e+07	1.28 y	43:28	-	1.21	y
40	Unk	PCB-156	5.00	1.48e+06	1.26 y	44:44	-	1.11	y
41	IS	13C-PCB-156	100.00	2.67e+07	1.30 y	44:42	-	1.17	y
42	Unk	PCB-157	5.00	1.44e+06	1.28 y	44:58	-	1.02	y
43	IS	13C-PCB-157	100.00	2.81e+07	1.31 y	44:57	-	1.23	y
44	Unk	PCB-169	5.00	1.39e+06	1.28 y	46:50	-	1.06	y
45	IS	13C-PCB-169	100.00	2.62e+07	1.28 y	46:49	-	1.15	y
46	Unk	PCB-188	5.00	1.41e+06	1.04 y	39:47	-	0.988	y
47	IS	13C-PCB-188	100.00	2.85e+07	1.05 y	39:46	-	1.25	y
48	Unk	PCB-189	5.00	1.12e+06	1.06 y	48:29	-	0.956	y
49	IS	13C-PCB-189	100.00	2.34e+07	1.06 y	48:27	-	1.02	y
50	Unk	PCB-202	5.00	1.16e+06	0.92 y	44:53	-	0.959	y
51	IS	13C-PCB-202	100.00	2.42e+07	0.90 y	44:52	-	1.06	y
52	C/Up	13C-PCB-178	100.00	1.88e+07	1.07 y	42:24	-	0.822	y
53	RS	13C-PCB-138	100.00	2.28e+07	1.29 y	41:36	2.28e+05	-	n

54	Unk	PCB-205	5.00	1.51e+06	0.89	y	50:07	-	1.02	y
55	IS	13C-PCB-205	100.00	2.95e+07	0.90	y	50:07	-	1.33	y
56	Unk	PCB-208	5.00	1.32e+06	1.38	y	49:12	-	0.974	y
57	IS	13C-PCB-208	100.00	2.72e+07	0.81	y	49:11	-	1.23	y
58	Unk	PCB-206	5.00	1.07e+06	1.38	y	51:21	-	1.00	y
59	IS	13C-PCB-206	100.00	2.13e+07	0.80	y	51:19	-	0.962	y
60	Unk	PCB-209	5.00	1.39e+06	1.22	y	52:31	-	1.07	y
61	IS	13C-PCB-209	100.00	2.60e+07	1.21	y	52:30	-	1.18	y
62	RS	13C-PCB-194	100.00	2.21e+07	0.92	y	49:52	2.21e+05	-	n

Analyst: [illegible] Date: 4/3/19

Run #4 Filename 03APR19Z S: 4 Acquired: 3-APR-19 10:37:22 Cal: 1668FAL4-4-3-19
Client ID: ST040319Z3 Analyte: FAL ID: 1668 CS377 R181204D

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	2.86e+07	3.29 y	14:35	-	1.19	y
2	IS/RT	13C-PCB-1	100.00	4.81e+07	3.24 y	14:34	-	1.05	y
3	Unk	PCB-3	50.00	2.65e+07	3.25 y	17:02	-	1.19	y
4	IS/RT	13C-PCB-3	100.00	4.46e+07	3.33 y	17:00	-	0.975	y
5	Unk	PCB-4	50.00	1.68e+07	1.57 y	18:16	-	1.02	y
6	IS/RT	13C-PCB-4	100.00	3.29e+07	1.55 y	18:15	-	0.720	y
7	Unk	PCB-15	50.00	2.15e+07	1.54 y	23:48	-	1.02	y
8	IS/RT	13C-PCB-15	100.00	4.23e+07	1.61 y	23:47	-	0.925	y
9	Unk	PCB-19	50.00	1.38e+07	1.05 y	22:09	-	1.12	y
10	IS/RT	13C-PCB-19	100.00	2.46e+07	1.07 y	22:08	-	0.539	y
11	RS	13C-PCB-9	100.00	4.57e+07	1.63 y	19:55	4.57e+05	-	n
12	Unk	PCB-37	50.00	1.75e+07	1.02 y	30:27	-	1.06	y
13	IS	13C-PCB-37	100.00	3.31e+07	1.09 y	30:26	-	1.43	y
14	Unk	PCB-54	50.00	1.92e+07	0.80 y	25:41	-	1.19	y
15	IS/RT	13C-PCB-54	100.00	3.23e+07	0.81 y	25:40	-	1.40	y
16	Unk	PCB-104	50.00	1.39e+07	1.59 y	30:08	-	1.11	y
17	IS	13C-PCB-104	100.00	2.52e+07	1.59 y	30:06	-	1.09	y
18	C/Up	13C-PCB-28	100.00	3.95e+07	1.07 y	26:45	-	1.71	y
19	RS	13C-PCB-52	100.00	2.31e+07	0.80 y	29:01	2.31e+05	-	n
20	Unk	PCB-81	50.00	1.46e+07	0.80 y	36:13	-	1.07	y
21	IS	13C-PCB-81	100.00	2.73e+07	0.78 y	36:12	-	1.41	y
22	Unk	PCB-77	50.00	1.44e+07	0.79 y	36:47	-	1.02	y
23	IS/RT	13C-PCB-77	100.00	2.83e+07	0.77 y	36:46	-	1.46	y
24	Unk	PCB-155	50.00	1.41e+07	1.24 y	34:17	-	1.03	y
25	IS	13C-PCB-155	100.00	2.74e+07	1.25 y	34:16	-	1.41	y
26	C/Up	13C-PCB-111	100.00	2.52e+07	1.60 y	36:21	-	1.30	y
27	RS	13C-PCB-101	100.00	1.93e+07	1.61 y	34:42	1.93e+05	-	n
28	Unk	PCB-123	50.00	1.29e+07	1.54 y	38:25	-	1.03	y
29	IS	13C-PCB-123	100.00	2.49e+07	1.61 y	38:23	-	1.32	y
30	Unk	PCB-118	50.00	1.40e+07	1.56 y	38:35	-	1.01	y
31	IS	13C-PCB-118	100.00	2.79e+07	1.61 y	38:33	-	1.48	y
32	Unk	PCB-114	50.00	1.28e+07	1.54 y	39:11	-	0.985	y
33	IS	13C-PCB-114	100.00	2.60e+07	1.63 y	39:11	-	1.38	y
34	Unk	PCB-105	50.00	1.28e+07	1.55 y	40:00	-	0.998	y
35	IS	13C-PCB-105	100.00	2.56e+07	1.62 y	39:59	-	1.36	y
36	Unk	PCB-126	50.00	1.22e+07	1.58 y	42:09	-	1.02	y
37	IS	13C-PCB-126	100.00	2.39e+07	1.60 y	42:07	-	1.27	y
38	Unk	PCB-167	50.00	1.22e+07	1.27 y	43:29	-	1.08	y
39	IS	13C-PCB-167	100.00	2.24e+07	1.28 y	43:29	-	1.19	y
40	Unk	PCB-156	50.00	1.23e+07	1.26 y	44:44	-	1.09	y
41	IS	13C-PCB-156	100.00	2.25e+07	1.29 y	44:42	-	1.19	y
42	Unk	PCB-157	50.00	1.23e+07	1.27 y	44:58	-	1.06	y
43	IS	13C-PCB-157	100.00	2.32e+07	1.29 y	44:57	-	1.23	y
44	Unk	PCB-169	50.00	1.16e+07	1.26 y	46:50	-	1.09	y
45	IS	13C-PCB-169	100.00	2.14e+07	1.27 y	46:49	-	1.14	y
46	Unk	PCB-188	50.00	1.23e+07	1.05 y	39:47	-	1.05	y
47	IS	13C-PCB-188	100.00	2.35e+07	1.07 y	39:46	-	1.25	y
48	Unk	PCB-189	50.00	9.29e+06	1.04 y	48:29	-	0.985	y
49	IS	13C-PCB-189	100.00	1.88e+07	1.06 y	48:27	-	1.00	y
50	Unk	PCB-202	50.00	1.02e+07	0.89 y	44:53	-	1.03	y
51	IS	13C-PCB-202	100.00	1.98e+07	0.90 y	44:52	-	1.05	y
52	C/Up	13C-PCB-178	100.00	1.51e+07	1.04 y	42:24	-	0.803	y
53	RS	13C-PCB-138	100.00	1.88e+07	1.30 y	41:38	1.88e+05	-	n

54	Unk	PCB-205	50.00	1.25e+07	0.89	y	50:07	-	1.05	y
55	IS	13C-PCB-205	100.00	2.39e+07	0.90	y	50:07	-	1.37	y
56	Unk	PCB-208	50.00	1.22e+07	1.36	y	49:12	-	1.01	y
57	IS	13C-PCB-208	100.00	2.42e+07	0.81	y	49:11	-	1.38	y
58	Unk	PCB-206	50.00	8.90e+06	1.37	y	51:21	-	1.03	y
59	IS	13C-PCB-206	100.00	1.73e+07	0.80	y	51:19	-	0.990	y
60	Unk	PCB-209	50.00	1.19e+07	1.21	y	52:33	-	1.12	y
61	IS	13C-PCB-209	100.00	2.13e+07	1.22	y	52:31	-	1.21	y
62	RS	13C-PCB-194	100.00	1.75e+07	0.89	y	49:52	1.75e+05	-	n

Analyst: _____ Date: 4/3/19

Run #5 Filename 03APR19Z S: 5 Acquired: 3-APR-19 11:35:43 Cal: 1668FAL4-4-3-19
Client ID: ST040319Z4 Analyte: FAL ID: 1668 CS477 R181022B

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	400.00	2.25e+08	3.15 y	14:35	-	1.19	y
2	IS/RT	13C-PCB-1	100.00	4.71e+07	3.26 y	14:34	-	1.12	y
3	Unk	PCB-3	400.00	2.10e+08	3.22 y	17:01	-	1.18	y
4	IS/RT	13C-PCB-3	100.00	4.44e+07	3.32 y	16:60	-	1.06	y
5	Unk	PCB-4	400.00	1.28e+08	1.53 y	18:16	-	1.02	y
6	IS/RT	13C-PCB-4	100.00	3.12e+07	1.59 y	18:15	-	0.742	y
7	Unk	PCB-15	400.00	1.72e+08	1.53 y	23:47	-	1.03	y
8	IS/RT	13C-PCB-15	100.00	4.16e+07	1.62 y	23:47	-	0.989	y
9	Unk	PCB-19	400.00	1.06e+08	1.06 y	22:09	-	1.14	y
10	IS/RT	13C-PCB-19	100.00	2.31e+07	1.08 y	22:08	-	0.550	y
11	RS	13C-PCB-9	100.00	4.20e+07	1.59 y	19:55	4.20e+05	-	n
12	Unk	PCB-37	400.00	1.46e+08	1.03 y	30:27	-	1.06	y
13	IS	13C-PCB-37	100.00	3.43e+07	1.05 y	30:26	-	1.58	y
14	Unk	PCB-54	400.00	1.50e+08	0.79 y	25:41	-	1.20	y
15	IS/RT	13C-PCB-54	100.00	3.11e+07	0.80 y	25:40	-	1.43	y
16	Unk	PCB-104	400.00	1.11e+08	1.58 y	30:08	-	1.14	y
17	IS	13C-PCB-104	100.00	2.43e+07	1.59 y	30:06	-	1.12	y
18	C/Up	13C-PCB-28	100.00	3.62e+07	1.04 y	26:45	-	1.67	y
19	RS	13C-PCB-52	100.00	2.17e+07	0.80 y	29:01	2.17e+05	-	n
20	Unk	PCB-81	400.00	1.20e+08	0.80 y	36:12	-	1.11	y
21	IS	13C-PCB-81	100.00	2.71e+07	0.80 y	36:11	-	1.50	y
22	Unk	PCB-77	400.00	1.22e+08	0.80 y	36:46	-	1.07	y
23	IS/RT	13C-PCB-77	100.00	2.83e+07	0.80 y	36:45	-	1.57	y
24	Unk	PCB-155	400.00	1.12e+08	1.26 y	34:17	-	1.05	y
25	IS	13C-PCB-155	100.00	2.66e+07	1.29 y	34:16	-	1.47	y
26	C/Up	13C-PCB-111	100.00	2.39e+07	1.61 y	36:21	-	1.32	y
27	RS	13C-PCB-101	100.00	1.81e+07	1.60 y	34:42	1.81e+05	-	n
28	Unk	PCB-123	400.00	1.08e+08	1.53 y	38:23	-	1.06	y
29	IS	13C-PCB-123	100.00	2.55e+07	1.60 y	38:23	-	1.44	y
30	Unk	PCB-118	400.00	1.15e+08	1.51 y	38:35	-	1.05	y
31	IS	13C-PCB-118	100.00	2.74e+07	1.62 y	38:33	-	1.55	y
32	Unk	PCB-114	400.00	1.06e+08	1.51 y	39:11	-	1.03	y
33	IS	13C-PCB-114	100.00	2.56e+07	1.61 y	39:11	-	1.45	y
34	Unk	PCB-105	400.00	1.08e+08	1.55 y	40:00	-	1.04	y
35	IS	13C-PCB-105	100.00	2.59e+07	1.58 y	39:59	-	1.47	y
36	Unk	PCB-126	400.00	1.02e+08	1.54 y	42:07	-	1.03	y
37	IS	13C-PCB-126	100.00	2.47e+07	1.60 y	42:07	-	1.40	y
38	Unk	PCB-167	400.00	1.02e+08	1.26 y	43:30	-	1.10	y
39	IS	13C-PCB-167	100.00	2.33e+07	1.30 y	43:28	-	1.32	y
40	Unk	PCB-156	400.00	9.98e+07	1.25 y	44:44	-	1.11	y
41	IS	13C-PCB-156	100.00	2.25e+07	1.28 y	44:42	-	1.28	y
42	Unk	PCB-157	400.00	1.05e+08	1.26 y	44:58	-	1.06	y
43	IS	13C-PCB-157	100.00	2.47e+07	1.30 y	44:57	-	1.40	y
44	Unk	PCB-169	400.00	9.86e+07	1.28 y	46:49	-	1.09	y
45	IS	13C-PCB-169	100.00	2.26e+07	1.29 y	46:49	-	1.28	y
46	Unk	PCB-188	400.00	9.81e+07	1.05 y	39:47	-	1.09	y
47	IS	13C-PCB-188	100.00	2.24e+07	1.06 y	39:46	-	1.27	y
48	Unk	PCB-189	400.00	8.13e+07	1.06 y	48:29	-	1.10	y
49	IS	13C-PCB-189	100.00	1.85e+07	1.05 y	48:27	-	1.05	y
50	Unk	PCB-202	400.00	8.01e+07	0.89 y	44:53	-	1.06	y
51	IS	13C-PCB-202	100.00	1.90e+07	0.91 y	44:52	-	1.07	y
52	C/Up	13C-PCB-178	100.00	1.43e+07	1.06 y	42:24	-	0.809	y
53	RS	13C-PCB-138	100.00	1.76e+07	1.28 y	41:38	1.76e+05	-	n

54	Unk	PCB-205	400.00	1.05e+08	0.89 y	50:09	-	1.09	y	
55	IS	13C-PCB-205	100.00	2.41e+07	0.90 y	50:07	-	1.44	y	
56	Unk	PCB-208	400.00	9.24e+07	1.39 y	49:12	-	1.01	y	
57	IS	13C-PCB-208	100.00	2.30e+07	0.80 y	49:11	-	1.37	y	
58	Unk	PCB-206	400.00	7.27e+07	1.38 y	51:19	-	1.07	y	
59	IS	13C-PCB-206	100.00	1.70e+07	0.80 y	51:19	-	1.02	y	
60	Unk	PCB-209	400.00	9.60e+07	1.19 y	52:31	-	1.15	y	
61	IS	13C-PCB-209	100.00	2.09e+07	1.21 y	52:31	-	1.25	y	
62	RS	13C-PCB-194	100.00	1.67e+07	0.93 y	49:52	1.67e+05	-	n	

Analyst: [illegible] Date: 4/3/19

Run #6 Filename 03APR19Z S: 6 Acquired: 3-APR-19 12:34:04 Cal: 1668FAL4-4-3-19
Client ID: ST040319Z5 Analyte: FAL ID: 1668 CS577 R130426C

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	2000.00	1.47e+09	3.11	y	14:34	-	1.17	y
2	IS/RT	13C-PCB-1	100.00	6.29e+07	3.22	y	14:33	-	1.08	y
3	Unk	PCB-3	2000.00	1.45e+09	3.19	y	17:01	-	1.16	y
4	IS/RT	13C-PCB-3	100.00	6.26e+07	3.25	y	17:00	-	1.08	y
5	Unk	PCB-4	2000.00	9.27e+08	1.53	y	18:17	-	1.04	y
6	IS/RT	13C-PCB-4	100.00	4.46e+07	1.58	y	18:15	-	0.767	y
7	Unk	PCB-15	2000.00	1.44e+09	1.52	y	23:48	-	1.02	y
8	IS/RT	13C-PCB-15	100.00	7.06e+07	1.57	y	23:47	-	1.21	y
9	Unk	PCB-19	2000.00	7.89e+08	1.06	y	22:10	-	1.20	y
10	IS/RT	13C-PCB-19	100.00	3.30e+07	1.07	y	22:09	-	0.567	y
11	RS	13C-PCB-9	100.00	5.82e+07	1.60	y	19:56	5.82e+05	-	n
12	Unk	PCB-37	2000.00	1.35e+09	1.02	y	30:27	-	1.07	y
13	IS	13C-PCB-37	100.00	6.26e+07	1.06	y	30:26	-	1.85	y
14	Unk	PCB-54	2000.00	1.10e+09	0.79	y	25:43	-	1.15	y
15	IS/RT	13C-PCB-54	100.00	4.78e+07	0.81	y	25:41	-	1.42	y
16	Unk	PCB-104	2000.00	8.24e+08	1.56	y	30:08	-	1.08	y
17	IS	13C-PCB-104	100.00	3.82e+07	1.60	y	30:07	-	1.13	y
18	C/Up	13C-PCB-28	100.00	5.70e+07	1.05	y	26:46	-	1.69	y
19	RS	13C-PCB-52	100.00	3.38e+07	0.79	y	29:01	3.38e+05	-	n
20	Unk	PCB-81	2000.00	1.14e+09	0.79	y	36:13	-	1.07	y
21	IS	13C-PCB-81	100.00	5.33e+07	0.78	y	36:12	-	1.93	y
22	Unk	PCB-77	2000.00	1.14e+09	0.79	y	36:46	-	1.02	y
23	IS/RT	13C-PCB-77	100.00	5.61e+07	0.79	y	36:45	-	2.03	y
24	Unk	PCB-155	2000.00	8.77e+08	1.26	y	34:18	-	1.03	y
25	IS	13C-PCB-155	100.00	4.24e+07	1.27	y	34:17	-	1.54	y
26	C/Up	13C-PCB-111	100.00	3.71e+07	1.58	y	36:21	-	1.34	y
27	RS	13C-PCB-101	100.00	2.76e+07	1.60	y	34:42	2.76e+05	-	n
28	Unk	PCB-123	2000.00	9.48e+08	1.51	y	38:25	-	1.02	y
29	IS	13C-PCB-123	100.00	4.63e+07	1.58	y	38:23	-	1.62	y
30	Unk	PCB-118	2000.00	1.06e+09	1.52	y	38:35	-	1.03	y
31	IS	13C-PCB-118	100.00	5.17e+07	1.59	y	38:33	-	1.81	y
32	Unk	PCB-114	2000.00	1.03e+09	1.52	y	39:13	-	1.01	y
33	IS	13C-PCB-114	100.00	5.09e+07	1.57	y	39:11	-	1.78	y
34	Unk	PCB-105	2000.00	1.01e+09	1.50	y	40:00	-	0.996	y
35	IS	13C-PCB-105	100.00	5.06e+07	1.59	y	40:00	-	1.77	y
36	Unk	PCB-126	2000.00	9.65e+08	1.53	y	42:09	-	0.993	y
37	IS	13C-PCB-126	100.00	4.86e+07	1.59	y	42:07	-	1.70	y
38	Unk	PCB-167	2000.00	9.47e+08	1.26	y	43:30	-	1.06	y
39	IS	13C-PCB-167	100.00	4.47e+07	1.28	y	43:30	-	1.56	y
40	Unk	PCB-156	2000.00	9.14e+08	1.26	y	44:44	-	1.11	y
41	IS	13C-PCB-156	100.00	4.11e+07	1.27	y	44:44	-	1.44	y
42	Unk	PCB-157	2000.00	1.02e+09	1.25	y	44:58	-	1.05	y
43	IS	13C-PCB-157	100.00	4.84e+07	1.29	y	44:58	-	1.69	y
44	Unk	PCB-169	2000.00	9.20e+08	1.27	y	46:50	-	1.05	y
45	IS	13C-PCB-169	100.00	4.40e+07	1.29	y	46:49	-	1.54	y
46	Unk	PCB-188	2000.00	8.51e+08	1.05	y	39:47	-	1.05	y
47	IS	13C-PCB-188	100.00	4.04e+07	1.05	y	39:47	-	1.42	y
48	Unk	PCB-189	2000.00	7.24e+08	1.05	y	48:29	-	0.983	y
49	IS	13C-PCB-189	100.00	3.69e+07	1.07	y	48:29	-	1.29	y
50	Unk	PCB-202	2000.00	6.54e+08	0.88	y	44:55	-	0.945	y
51	IS	13C-PCB-202	100.00	3.46e+07	0.92	y	44:53	-	1.21	y
52	C/Up	13C-PCB-178	100.00	2.30e+07	1.07	y	42:24	-	0.805	y
53	RS	13C-PCB-138	100.00	2.86e+07	1.29	y	41:38	2.86e+05	-	n

54	Unk	PCB-205	2000.00	8.80e+08	0.88	y	50:09	-	0.935	y
55	IS	13C-PCB-205	100.00	4.71e+07	0.89	y	50:07	-	1.58	y
56	Unk	PCB-208	2000.00	8.02e+08	1.35	y	49:14	-	0.909	y
57	IS	13C-PCB-208	100.00	4.41e+07	0.81	y	49:12	-	1.48	y
58	Unk	PCB-206	2000.00	5.90e+08	1.35	y	51:21	-	0.948	y
59	IS	13C-PCB-206	100.00	3.11e+07	0.79	y	51:19	-	1.05	y
60	Unk	PCB-209	2000.00	7.55e+08	1.19	y	52:31	-	0.987	y
61	IS	13C-PCB-209	100.00	3.83e+07	1.20	y	52:31	-	1.29	y
62	RS	13C-PCB-194	100.00	2.98e+07	0.88	y	49:52	2.98e+05	-	n

Analyst: _____ Date: 4/3/19

Run No.1 Filename03APR19Z Sample:1 Acquired: 3-APR-19 07:41:54

FAL ID:1668 CS077 R170821A

	Name	RT	Response	Response	RA	
1	PCB-1	14:32	2.60e+05	8.17e+04	3.18	y
2	13C-PCB-1	14:31	1.03e+08	3.12e+07	3.30	y
3	PCB-3	16:58	2.60e+05	7.97e+04	3.26	y
4	13C-PCB-3	16:56	1.04e+08	3.18e+07	3.28	y
5	PCB-4	18:12	1.43e+05	1.08e+05	1.33	y
6	13C-PCB-4	18:11	6.76e+07	4.30e+07	1.57	y
7	PCB-15	23:45	1.79e+05	1.20e+05	1.50	y
8	13C-PCB-15	23:43	8.54e+07	5.43e+07	1.57	y
9	PCB-19	22:05	8.82e+04	7.99e+04	1.10	y
10	13C-PCB-19	22:04	3.94e+07	3.71e+07	1.06	y
11	13C-PCB-9	19:51	9.99e+07	6.20e+07	1.61	y
12	PCB-37	30:26	1.26e+05	1.16e+05	1.09	y
13	13C-PCB-37	30:25	5.96e+07	5.52e+07	1.08	y
14	PCB-54	25:39	9.92e+04	1.31e+05	0.76	y
15	13C-PCB-54	25:38	4.41e+07	5.44e+07	0.81	y
16	PCB-104	30:07	1.07e+05	6.85e+04	1.57	y
17	13C-PCB-104	30:06	5.20e+07	3.24e+07	1.60	y
18	13C-PCB-28	26:42	6.54e+07	6.19e+07	1.06	y
19	13C-PCB-52	29:00	3.37e+07	4.22e+07	0.80	y
20	PCB-81	36:12	8.84e+04	1.16e+05	0.76	y
21	13C-PCB-81	36:12	4.13e+07	5.26e+07	0.78	y
22	PCB-77	36:48	9.26e+04	1.14e+05	0.81	y
23	13C-PCB-77	36:45	4.30e+07	5.43e+07	0.79	y
24	PCB-155	34:17	1.02e+05	8.36e+04	1.23	y
25	13C-PCB-155	34:16	5.03e+07	3.93e+07	1.28	y
26	13C-PCB-111	36:21	5.12e+07	3.22e+07	1.59	y
27	13C-PCB-101	34:42	4.23e+07	2.64e+07	1.60	y
28	PCB-123	38:25	1.13e+05	7.83e+04	1.44	y
29	13C-PCB-123	38:24	5.35e+07	3.36e+07	1.59	y
30	PCB-118	38:35	1.20e+05	8.15e+04	1.48	y
31	13C-PCB-118	38:33	5.94e+07	3.67e+07	1.62	y
32	PCB-114	39:13	1.10e+05	8.07e+04	1.36	y
33	13C-PCB-114	39:11	5.50e+07	3.43e+07	1.61	y
34	PCB-105	40:01	1.21e+05	7.45e+04	1.62	y
35	13C-PCB-105	40:01	5.48e+07	3.42e+07	1.60	y
36	PCB-126	42:09	1.08e+05	7.85e+04	1.37	y
37	13C-PCB-126	42:07	5.20e+07	3.24e+07	1.61	y
38	PCB-167	43:30	9.51e+04	7.86e+04	1.21	y
39	13C-PCB-167	43:30	4.50e+07	3.51e+07	1.28	y
40	PCB-156	44:44	9.63e+04	7.33e+04	1.31	y
41	13C-PCB-156	44:44	4.31e+07	3.35e+07	1.29	y
42	PCB-157	44:59	1.05e+05	7.99e+04	1.31	y
43	13C-PCB-157	44:59	4.57e+07	3.54e+07	1.29	y
44	PCB-169	46:51	9.47e+04	6.78e+04	1.40	y
45	13C-PCB-169	46:49	4.34e+07	3.32e+07	1.31	y
46	PCB-188	39:47	8.39e+04	8.43e+04	1.00	y
47	13C-PCB-188	39:46	4.43e+07	4.16e+07	1.07	y
48	PCB-189	48:29	6.91e+04	6.46e+04	1.07	y
49	13C-PCB-189	48:29	3.41e+07	3.21e+07	1.06	y
50	PCB-202	44:55	6.66e+04	7.20e+04	0.93	y
51	13C-PCB-202	44:54	3.31e+07	3.64e+07	0.91	y
52	13C-PCB-178	42:24	2.69e+07	2.52e+07	1.07	y
53	13C-PCB-138	41:38	3.73e+07	2.91e+07	1.28	y

FAL ID:1668 CS077 R170821A

	Name	RT	Response	Response	RA	
54	PCB-205	50:09	7.92e+04	8.85e+04	0.90	y
55	13C-PCB-205	50:08	3.84e+07	4.29e+07	0.89	y
56	PCB-208	49:12	9.65e+04	6.80e+04	1.42	y
57	13C-PCB-208	49:12	3.71e+07	4.59e+07	0.81	y
58	PCB-206	51:21	7.14e+04	4.84e+04	1.48	y
59	13C-PCB-206	51:21	2.76e+07	3.50e+07	0.79	y
60	PCB-209	52:31	8.77e+04	7.31e+04	1.20	y
61	13C-PCB-209	52:31	3.72e+07	3.07e+07	1.21	y
62	13C-PCB-194	49:52	2.90e+07	3.20e+07	0.91	y

Analyst: _____ Date: 4/3/19

Run No.2 Filename03APR19Z Sample:2 Acquired: 3-APR-19 08:40:14

FAL ID:1668 CS177 R170213A

	Name	RT	Response	Response	RA	
1	PCB-1	14:36	9.02e+05	2.75e+05	3.28	y
2	13C-PCB-1	14:35	7.74e+07	2.38e+07	3.26	y
3	PCB-3	17:02	8.45e+05	2.55e+05	3.31	y
4	13C-PCB-3	17:01	7.18e+07	2.21e+07	3.25	y
5	PCB-4	18:16	4.42e+05	3.30e+05	1.34	y
6	13C-PCB-4	18:15	4.62e+07	2.87e+07	1.61	y
7	PCB-15	23:48	5.32e+05	3.70e+05	1.44	y
8	13C-PCB-15	23:47	5.45e+07	3.48e+07	1.57	y
9	PCB-19	22:09	2.77e+05	2.55e+05	1.08	y
10	13C-PCB-19	22:08	2.62e+07	2.45e+07	1.07	y
11	13C-PCB-9	19:56	6.20e+07	3.89e+07	1.59	y
12	PCB-37	30:27	3.59e+05	3.36e+05	1.07	y
13	13C-PCB-37	30:26	3.70e+07	3.47e+07	1.06	y
14	PCB-54	25:42	3.25e+05	4.00e+05	0.81	y
15	13C-PCB-54	25:40	2.93e+07	3.59e+07	0.82	y
16	PCB-104	30:08	3.23e+05	2.10e+05	1.54	y
17	13C-PCB-104	30:06	3.16e+07	1.99e+07	1.59	y
18	13C-PCB-28	26:45	4.26e+07	4.03e+07	1.06	y
19	13C-PCB-52	29:01	2.10e+07	2.63e+07	0.80	y
20	PCB-81	36:13	2.61e+05	3.19e+05	0.82	y
21	13C-PCB-81	36:11	2.48e+07	3.16e+07	0.79	y
22	PCB-77	36:46	2.46e+05	3.29e+05	0.75	y
23	13C-PCB-77	36:45	2.58e+07	3.31e+07	0.78	y
24	PCB-155	34:17	3.09e+05	2.46e+05	1.26	y
25	13C-PCB-155	34:16	3.17e+07	2.50e+07	1.26	y
26	13C-PCB-111	36:21	3.18e+07	1.97e+07	1.61	y
27	13C-PCB-101	34:42	2.48e+07	1.55e+07	1.60	y
28	PCB-123	38:25	3.20e+05	1.95e+05	1.64	y
29	13C-PCB-123	38:24	3.21e+07	2.03e+07	1.58	y
30	PCB-118	38:35	3.35e+05	2.27e+05	1.48	y
31	13C-PCB-118	38:33	3.44e+07	2.16e+07	1.59	y
32	PCB-114	39:11	3.13e+05	2.01e+05	1.55	y
33	13C-PCB-114	39:11	3.24e+07	2.05e+07	1.58	y
34	PCB-105	40:01	3.08e+05	2.10e+05	1.47	y
35	13C-PCB-105	39:59	3.23e+07	2.03e+07	1.59	y
36	PCB-126	42:09	3.02e+05	1.91e+05	1.58	y
37	13C-PCB-126	42:07	3.10e+07	1.95e+07	1.59	y
38	PCB-167	43:30	2.74e+05	2.13e+05	1.28	y
39	13C-PCB-167	43:28	2.64e+07	2.03e+07	1.30	y
40	PCB-156	44:44	2.68e+05	2.18e+05	1.23	y
41	13C-PCB-156	44:42	2.61e+07	1.99e+07	1.32	y
42	PCB-157	44:59	2.80e+05	2.19e+05	1.28	y
43	13C-PCB-157	44:57	2.71e+07	2.11e+07	1.29	y
44	PCB-169	46:49	2.62e+05	2.10e+05	1.25	y
45	13C-PCB-169	46:49	2.61e+07	2.02e+07	1.29	y
46	PCB-188	39:48	2.27e+05	2.25e+05	1.01	y
47	13C-PCB-188	39:46	2.46e+07	2.36e+07	1.04	y
48	PCB-189	48:29	1.94e+05	1.79e+05	1.08	y
49	13C-PCB-189	48:29	2.09e+07	1.95e+07	1.07	y
50	PCB-202	44:54	1.90e+05	2.06e+05	0.92	y
51	13C-PCB-202	44:52	2.00e+07	2.19e+07	0.91	y
52	13C-PCB-178	42:24	1.62e+07	1.53e+07	1.05	y
53	13C-PCB-138	41:38	2.18e+07	1.69e+07	1.29	y

FAL ID:1668 CS177 R170213A

	Name	RT	Response	Response	RA	
54	PCB-205	50:09	2.36e+05	2.66e+05	0.89	y
55	13C-PCB-205	50:08	2.36e+07	2.60e+07	0.91	y
56	PCB-208	49:12	2.73e+05	2.04e+05	1.34	y
57	13C-PCB-208	49:11	2.23e+07	2.74e+07	0.81	y
58	PCB-206	51:21	2.04e+05	1.48e+05	1.37	y
59	13C-PCB-206	51:20	1.64e+07	2.03e+07	0.81	y
60	PCB-209	52:32	2.55e+05	2.12e+05	1.21	y
61	13C-PCB-209	52:30	2.48e+07	2.06e+07	1.21	y
62	13C-PCB-194	49:52	1.75e+07	1.94e+07	0.90	y

Analyst: Date: 4/3/19

Run No.3 Filename03APR19Z Sample:3 Acquired: 3-APR-19 09:38:36

FAL ID:1668 CS277 R170213B

	Name	RT	Response	Response	RA	
1	PCB-1	14:36	2.61e+06	8.15e+05	3.20	y
2	13C-PCB-1	14:35	4.44e+07	1.37e+07	3.23	y
3	PCB-3	17:02	2.19e+06	7.27e+05	3.01	y
4	13C-PCB-3	17:01	4.02e+07	1.23e+07	3.26	y
5	PCB-4	18:16	1.29e+06	9.28e+05	1.39	y
6	13C-PCB-4	18:15	2.65e+07	1.70e+07	1.56	y
7	PCB-15	23:48	1.51e+06	1.12e+06	1.35	y
8	13C-PCB-15	23:47	3.12e+07	1.96e+07	1.59	y
9	PCB-19	22:10	8.05e+05	7.55e+05	1.07	y
10	13C-PCB-19	22:08	1.53e+07	1.42e+07	1.08	y
11	13C-PCB-9	19:55	3.48e+07	2.19e+07	1.59	y
12	PCB-37	30:27	1.05e+06	9.98e+05	1.06	y
13	13C-PCB-37	30:26	2.12e+07	1.97e+07	1.08	y
14	PCB-54	25:41	9.63e+05	1.19e+06	0.81	y
15	13C-PCB-54	25:40	1.66e+07	2.07e+07	0.80	y
16	PCB-104	30:07	9.77e+05	6.35e+05	1.54	y
17	13C-PCB-104	30:06	1.83e+07	1.14e+07	1.61	y
18	13C-PCB-28	26:45	2.47e+07	2.31e+07	1.07	y
19	13C-PCB-52	29:01	1.21e+07	1.52e+07	0.80	y
20	PCB-81	36:13	7.43e+05	9.13e+05	0.81	y
21	13C-PCB-81	36:12	1.42e+07	1.82e+07	0.78	y
22	PCB-77	36:47	7.32e+05	9.27e+05	0.79	y
23	13C-PCB-77	36:46	1.49e+07	1.91e+07	0.78	y
24	PCB-155	34:17	8.84e+05	7.33e+05	1.21	y
25	13C-PCB-155	34:16	1.81e+07	1.39e+07	1.30	y
26	13C-PCB-111	36:21	1.83e+07	1.14e+07	1.60	y
27	13C-PCB-101	34:42	1.44e+07	8.84e+06	1.62	y
28	PCB-123	38:23	9.21e+05	6.07e+05	1.52	y
29	13C-PCB-123	38:23	1.85e+07	1.17e+07	1.57	y
30	PCB-118	38:35	9.84e+05	6.44e+05	1.53	y
31	13C-PCB-118	38:33	2.05e+07	1.30e+07	1.58	y
32	PCB-114	39:11	9.49e+05	6.27e+05	1.51	y
33	13C-PCB-114	39:11	1.90e+07	1.21e+07	1.58	y
34	PCB-105	40:00	8.96e+05	5.99e+05	1.50	y
35	13C-PCB-105	39:59	1.88e+07	1.18e+07	1.60	y
36	PCB-126	42:09	8.69e+05	5.50e+05	1.58	y
37	13C-PCB-126	42:07	1.80e+07	1.11e+07	1.62	y
38	PCB-167	43:30	8.08e+05	6.34e+05	1.27	y
39	13C-PCB-167	43:28	1.55e+07	1.21e+07	1.28	y
40	PCB-156	44:44	8.24e+05	6.53e+05	1.26	y
41	13C-PCB-156	44:42	1.51e+07	1.16e+07	1.30	y
42	PCB-157	44:58	8.08e+05	6.30e+05	1.28	y
43	13C-PCB-157	44:57	1.60e+07	1.22e+07	1.31	y
44	PCB-169	46:50	7.82e+05	6.09e+05	1.28	y
45	13C-PCB-169	46:49	1.47e+07	1.15e+07	1.28	y
46	PCB-188	39:47	7.17e+05	6.90e+05	1.04	y
47	13C-PCB-188	39:46	1.46e+07	1.39e+07	1.05	y
48	PCB-189	48:29	5.74e+05	5.42e+05	1.06	y
49	13C-PCB-189	48:27	1.20e+07	1.13e+07	1.06	y
50	PCB-202	44:53	5.56e+05	6.04e+05	0.92	y
51	13C-PCB-202	44:52	1.15e+07	1.27e+07	0.90	y
52	13C-PCB-178	42:24	9.69e+06	9.06e+06	1.07	y
53	13C-PCB-138	41:36	1.28e+07	9.97e+06	1.29	y

FAL ID:1668 CS277 R170213B

	Name	RT	Response	Response	RA	
54	PCB-205	50:07	7.09e+05	7.99e+05	0.89	y
55	13C-PCB-205	50:07	1.40e+07	1.55e+07	0.90	y
56	PCB-208	49:12	7.68e+05	5.56e+05	1.38	y
57	13C-PCB-208	49:11	1.22e+07	1.50e+07	0.81	y
58	PCB-206	51:21	6.19e+05	4.50e+05	1.38	y
59	13C-PCB-206	51:19	9.44e+06	1.18e+07	0.80	y
60	PCB-209	52:31	7.64e+05	6.26e+05	1.22	y
61	13C-PCB-209	52:30	1.42e+07	1.18e+07	1.21	y
62	13C-PCB-194	49:52	1.06e+07	1.15e+07	0.92	y

Analyst: Date: 4/3/19

Run No.4 Filename03APR19Z Sample:4 Acquired: 3-APR-19 10:37:22

FAL ID:1668 CS377 R181204D

	Name	RT	Response	Response	RA	
1	PCB-1	14:35	2.19e+07	6.67e+06	3.29	y
2	13C-PCB-1	14:34	3.67e+07	1.13e+07	3.24	y
3	PCB-3	17:02	2.03e+07	6.23e+06	3.25	y
4	13C-PCB-3	17:00	3.43e+07	1.03e+07	3.33	y
5	PCB-4	18:16	1.02e+07	6.53e+06	1.57	y
6	13C-PCB-4	18:15	2.00e+07	1.29e+07	1.55	y
7	PCB-15	23:48	1.30e+07	8.47e+06	1.54	y
8	13C-PCB-15	23:47	2.61e+07	1.62e+07	1.61	y
9	PCB-19	22:09	7.04e+06	6.72e+06	1.05	y
10	13C-PCB-19	22:08	1.27e+07	1.19e+07	1.07	y
11	13C-PCB-9	19:55	2.83e+07	1.74e+07	1.63	y
12	PCB-37	30:27	8.84e+06	8.71e+06	1.02	y
13	13C-PCB-37	30:26	1.72e+07	1.59e+07	1.09	y
14	PCB-54	25:41	8.53e+06	1.07e+07	0.80	y
15	13C-PCB-54	25:40	1.44e+07	1.78e+07	0.81	y
16	PCB-104	30:08	8.55e+06	5.37e+06	1.59	y
17	13C-PCB-104	30:06	1.55e+07	9.73e+06	1.59	y
18	13C-PCB-28	26:45	2.04e+07	1.91e+07	1.07	y
19	13C-PCB-52	29:01	1.03e+07	1.28e+07	0.80	y
20	PCB-81	36:13	6.47e+06	8.11e+06	0.80	y
21	13C-PCB-81	36:12	1.20e+07	1.53e+07	0.78	y
22	PCB-77	36:47	6.36e+06	8.04e+06	0.79	y
23	13C-PCB-77	36:46	1.23e+07	1.60e+07	0.77	y
24	PCB-155	34:17	7.82e+06	6.28e+06	1.24	y
25	13C-PCB-155	34:16	1.52e+07	1.22e+07	1.25	y
26	13C-PCB-111	36:21	1.55e+07	9.66e+06	1.60	y
27	13C-PCB-101	34:42	1.19e+07	7.40e+06	1.61	y
28	PCB-123	38:25	7.80e+06	5.06e+06	1.54	y
29	13C-PCB-123	38:23	1.54e+07	9.53e+06	1.61	y
30	PCB-118	38:35	8.54e+06	5.47e+06	1.56	y
31	13C-PCB-118	38:33	1.72e+07	1.07e+07	1.61	y
32	PCB-114	39:11	7.76e+06	5.04e+06	1.54	y
33	13C-PCB-114	39:11	1.61e+07	9.89e+06	1.63	y
34	PCB-105	40:00	7.76e+06	5.00e+06	1.55	y
35	13C-PCB-105	39:59	1.58e+07	9.77e+06	1.62	y
36	PCB-126	42:09	7.46e+06	4.72e+06	1.58	y
37	13C-PCB-126	42:07	1.47e+07	9.20e+06	1.60	y
38	PCB-167	43:29	6.80e+06	5.37e+06	1.27	y
39	13C-PCB-167	43:29	1.26e+07	9.85e+06	1.28	y
40	PCB-156	44:44	6.84e+06	5.45e+06	1.26	y
41	13C-PCB-156	44:42	1.26e+07	9.83e+06	1.29	y
42	PCB-157	44:58	6.89e+06	5.43e+06	1.27	y
43	13C-PCB-157	44:57	1.30e+07	1.01e+07	1.29	y
44	PCB-169	46:50	6.47e+06	5.15e+06	1.26	y
45	13C-PCB-169	46:49	1.19e+07	9.44e+06	1.27	y
46	PCB-188	39:47	6.28e+06	6.00e+06	1.05	y
47	13C-PCB-188	39:46	1.21e+07	1.14e+07	1.07	y
48	PCB-189	48:29	4.74e+06	4.55e+06	1.04	y
49	13C-PCB-189	48:27	9.71e+06	9.14e+06	1.06	y
50	PCB-202	44:53	4.79e+06	5.39e+06	0.89	y
51	13C-PCB-202	44:52	9.38e+06	1.04e+07	0.90	y
52	13C-PCB-178	42:24	7.73e+06	7.40e+06	1.04	y
53	13C-PCB-138	41:38	1.06e+07	8.19e+06	1.30	y

FAL ID:1668 CS377 R181204D

	Name	RT	Response	Response	RA	
54	PCB-205	50:07	5.90e+06	6.63e+06	0.89	y
55	13C-PCB-205	50:07	1.14e+07	1.26e+07	0.90	y
56	PCB-208	49:12	7.05e+06	5.19e+06	1.36	y
57	13C-PCB-208	49:11	1.08e+07	1.34e+07	0.81	y
58	PCB-206	51:21	5.14e+06	3.76e+06	1.37	y
59	13C-PCB-206	51:19	7.73e+06	9.60e+06	0.80	y
60	PCB-209	52:33	6.52e+06	5.39e+06	1.21	y
61	13C-PCB-209	52:31	1.17e+07	9.59e+06	1.22	y
62	13C-PCB-194	49:52	8.26e+06	9.25e+06	0.89	y

Analyst: B Date: 4/3/19

Run No.5 Filename03APR19Z Sample:5 Acquired: 3-APR-19 11:35:43

FAL ID:1668 CS477 R181022B

	Name	RT	Response	Response	RA	
1	PCB-1	14:35	1.71e+08	5.42e+07	3.15	y
2	13C-PCB-1	14:34	3.60e+07	1.10e+07	3.26	y
3	PCB-3	17:01	1.60e+08	4.97e+07	3.22	y
4	13C-PCB-3	16:60	3.41e+07	1.03e+07	3.32	y
5	PCB-4	18:16	7.72e+07	5.05e+07	1.53	y
6	13C-PCB-4	18:15	1.91e+07	1.21e+07	1.59	y
7	PCB-15	23:47	1.04e+08	6.80e+07	1.53	y
8	13C-PCB-15	23:47	2.57e+07	1.59e+07	1.62	y
9	PCB-19	22:09	5.44e+07	5.13e+07	1.06	y
10	13C-PCB-19	22:08	1.20e+07	1.11e+07	1.08	y
11	13C-PCB-9	19:55	2.58e+07	1.62e+07	1.59	y
12	PCB-37	30:27	7.39e+07	7.17e+07	1.03	y
13	13C-PCB-37	30:26	1.76e+07	1.67e+07	1.05	y
14	PCB-54	25:41	6.62e+07	8.34e+07	0.79	y
15	13C-PCB-54	25:40	1.38e+07	1.72e+07	0.80	y
16	PCB-104	30:08	6.78e+07	4.28e+07	1.58	y
17	13C-PCB-104	30:06	1.49e+07	9.35e+06	1.59	y
18	13C-PCB-28	26:45	1.85e+07	1.77e+07	1.04	y
19	13C-PCB-52	29:01	9.65e+06	1.20e+07	0.80	y
20	PCB-81	36:12	5.34e+07	6.65e+07	0.80	y
21	13C-PCB-81	36:11	1.21e+07	1.50e+07	0.80	y
22	PCB-77	36:46	5.41e+07	6.76e+07	0.80	y
23	13C-PCB-77	36:45	1.26e+07	1.58e+07	0.80	y
24	PCB-155	34:17	6.23e+07	4.95e+07	1.26	y
25	13C-PCB-155	34:16	1.50e+07	1.16e+07	1.29	y
26	13C-PCB-111	36:21	1.47e+07	9.14e+06	1.61	y
27	13C-PCB-101	34:42	1.11e+07	6.95e+06	1.60	y
28	PCB-123	38:23	6.51e+07	4.26e+07	1.53	y
29	13C-PCB-123	38:23	1.57e+07	9.81e+06	1.60	y
30	PCB-118	38:35	6.94e+07	4.59e+07	1.51	y
31	13C-PCB-118	38:33	1.69e+07	1.05e+07	1.62	y
32	PCB-114	39:11	6.37e+07	4.21e+07	1.51	y
33	13C-PCB-114	39:11	1.58e+07	9.79e+06	1.61	y
34	PCB-105	40:00	6.53e+07	4.23e+07	1.55	y
35	13C-PCB-105	39:59	1.59e+07	1.00e+07	1.58	y
36	PCB-126	42:07	6.18e+07	4.02e+07	1.54	y
37	13C-PCB-126	42:07	1.52e+07	9.48e+06	1.60	y
38	PCB-167	43:30	5.70e+07	4.52e+07	1.26	y
39	13C-PCB-167	43:28	1.32e+07	1.01e+07	1.30	y
40	PCB-156	44:44	5.54e+07	4.44e+07	1.25	y
41	13C-PCB-156	44:42	1.26e+07	9.88e+06	1.28	y
42	PCB-157	44:58	5.84e+07	4.64e+07	1.26	y
43	13C-PCB-157	44:57	1.40e+07	1.07e+07	1.30	y
44	PCB-169	46:49	5.53e+07	4.33e+07	1.28	y
45	13C-PCB-169	46:49	1.27e+07	9.88e+06	1.29	y
46	PCB-188	39:47	5.03e+07	4.77e+07	1.05	y
47	13C-PCB-188	39:46	1.15e+07	1.09e+07	1.06	y
48	PCB-189	48:29	4.19e+07	3.94e+07	1.06	y
49	13C-PCB-189	48:27	9.50e+06	9.04e+06	1.05	y
50	PCB-202	44:53	3.77e+07	4.23e+07	0.89	y
51	13C-PCB-202	44:52	9.03e+06	9.92e+06	0.91	y
52	13C-PCB-178	42:24	7.33e+06	6.94e+06	1.06	y
53	13C-PCB-138	41:38	9.89e+06	7.75e+06	1.28	y

FAL ID:1668 CS477 R181022B

	Name	RT	Response	Response	RA	
54	PCB-205	50:09	4.93e+07	5.57e+07	0.89	y
55	13C-PCB-205	50:07	1.14e+07	1.27e+07	0.90	y
56	PCB-208	49:12	5.37e+07	3.87e+07	1.39	y
57	13C-PCB-208	49:11	1.02e+07	1.28e+07	0.80	y
58	PCB-206	51:19	4.21e+07	3.06e+07	1.38	y
59	13C-PCB-206	51:19	7.57e+06	9.46e+06	0.80	y
60	PCB-209	52:31	5.23e+07	4.38e+07	1.19	y
61	13C-PCB-209	52:31	1.15e+07	9.46e+06	1.21	y
62	13C-PCB-194	49:52	8.05e+06	8.66e+06	0.93	y

Analyst: [illegible] Date: 4/3/19

Run No.6 Filename03APR19Z Sample:6 Acquired: 3-APR-19 12:34:04

FAL ID:1668 CS577 R130426C

	Name	RT	Response	Response	RA	
1	PCB-1	14:34	1.11e+09	3.57e+08	3.11	y
2	13C-PCB-1	14:33	4.80e+07	1.49e+07	3.22	y
3	PCB-3	17:01	1.11e+09	3.46e+08	3.19	y
4	13C-PCB-3	17:00	4.78e+07	1.47e+07	3.25	y
5	PCB-4	18:17	5.61e+08	3.66e+08	1.53	y
6	13C-PCB-4	18:15	2.73e+07	1.73e+07	1.58	y
7	PCB-15	23:48	8.71e+08	5.72e+08	1.52	y
8	13C-PCB-15	23:47	4.32e+07	2.74e+07	1.57	y
9	PCB-19	22:10	4.06e+08	3.82e+08	1.06	y
10	13C-PCB-19	22:09	1.70e+07	1.60e+07	1.07	y
11	13C-PCB-9	19:56	3.58e+07	2.24e+07	1.60	y
12	PCB-37	30:27	6.81e+08	6.64e+08	1.02	y
13	13C-PCB-37	30:26	3.22e+07	3.05e+07	1.06	y
14	PCB-54	25:43	4.85e+08	6.17e+08	0.79	y
15	13C-PCB-54	25:41	2.14e+07	2.65e+07	0.81	y
16	PCB-104	30:08	5.03e+08	3.21e+08	1.56	y
17	13C-PCB-104	30:07	2.35e+07	1.47e+07	1.60	y
18	13C-PCB-28	26:46	2.92e+07	2.77e+07	1.05	y
19	13C-PCB-52	29:01	1.49e+07	1.89e+07	0.79	y
20	PCB-81	36:13	5.05e+08	6.37e+08	0.79	y
21	13C-PCB-81	36:12	2.34e+07	2.99e+07	0.78	y
22	PCB-77	36:46	5.06e+08	6.37e+08	0.79	y
23	13C-PCB-77	36:45	2.47e+07	3.14e+07	0.79	y
24	PCB-155	34:18	4.88e+08	3.89e+08	1.26	y
25	13C-PCB-155	34:17	2.37e+07	1.87e+07	1.27	y
26	13C-PCB-111	36:21	2.27e+07	1.44e+07	1.58	y
27	13C-PCB-101	34:42	1.70e+07	1.06e+07	1.60	y
28	PCB-123	38:25	5.70e+08	3.78e+08	1.51	y
29	13C-PCB-123	38:23	2.84e+07	1.79e+07	1.58	y
30	PCB-118	38:35	6.40e+08	4.21e+08	1.52	y
31	13C-PCB-118	38:33	3.18e+07	2.00e+07	1.59	y
32	PCB-114	39:13	6.22e+08	4.10e+08	1.52	y
33	13C-PCB-114	39:11	3.11e+07	1.98e+07	1.57	y
34	PCB-105	40:00	6.06e+08	4.03e+08	1.50	y
35	13C-PCB-105	40:00	3.11e+07	1.95e+07	1.59	y
36	PCB-126	42:09	5.84e+08	3.81e+08	1.53	y
37	13C-PCB-126	42:07	2.98e+07	1.88e+07	1.59	y
38	PCB-167	43:30	5.27e+08	4.20e+08	1.26	y
39	13C-PCB-167	43:30	2.51e+07	1.96e+07	1.28	y
40	PCB-156	44:44	5.10e+08	4.04e+08	1.26	y
41	13C-PCB-156	44:44	2.30e+07	1.81e+07	1.27	y
42	PCB-157	44:58	5.65e+08	4.50e+08	1.25	y
43	13C-PCB-157	44:58	2.72e+07	2.12e+07	1.29	y
44	PCB-169	46:50	5.15e+08	4.05e+08	1.27	y
45	13C-PCB-169	46:49	2.48e+07	1.92e+07	1.29	y
46	PCB-188	39:47	4.36e+08	4.16e+08	1.05	y
47	13C-PCB-188	39:47	2.07e+07	1.97e+07	1.05	y
48	PCB-189	48:29	3.72e+08	3.53e+08	1.05	y
49	13C-PCB-189	48:29	1.90e+07	1.78e+07	1.07	y
50	PCB-202	44:55	3.05e+08	3.49e+08	0.88	y
51	13C-PCB-202	44:53	1.66e+07	1.80e+07	0.92	y
52	13C-PCB-178	42:24	1.19e+07	1.11e+07	1.07	y
53	13C-PCB-138	41:38	1.61e+07	1.25e+07	1.29	y

FAL ID:1668 CS577 R130426C

	Name	RT	Response	Response	RA	
54	PCB-205	50:09	4.13e+08	4.67e+08	0.88	y
55	13C-PCB-205	50:07	2.22e+07	2.49e+07	0.89	y
56	PCB-208	49:14	4.60e+08	3.41e+08	1.35	y
57	13C-PCB-208	49:12	1.97e+07	2.44e+07	0.81	y
58	PCB-206	51:21	3.39e+08	2.51e+08	1.35	y
59	13C-PCB-206	51:19	1.38e+07	1.74e+07	0.79	y
60	PCB-209	52:31	4.11e+08	3.44e+08	1.19	y
61	13C-PCB-209	52:31	2.09e+07	1.74e+07	1.20	y
62	13C-PCB-194	49:52	1.40e+07	1.58e+07	0.88	y

Analyst: Date: 4/3/19

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 03APR19Z Sam:4 Analysis Date: 3-APR-19 10:37:22

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.29	2.66-3.60	y	49.8	37.5 - 62.5
PCB-3	M/M+2	3.25	2.66-3.60	y	50.5	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	48.7	37.5 - 62.5
PCB-15	M/M+2	1.54	1.33-1.79	y	49.2	37.5 - 62.5
PCB-19	M/M+2	1.05	0.88-1.20	y	50.3	37.5 - 62.5
PCB-37	M/M+2	1.02	0.88-1.20	y	51.1	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	51.2	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	49.9	37.5 - 62.5
PCB-81	M/M+2	0.80	0.65-0.89	y	50.2	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	51.1	37.5 - 62.5
PCB-105	M+2/M+4	1.55	1.32-1.78	y	49.2	37.5 - 62.5
PCB-114	M+2/M+4	1.54	1.32-1.78	y	48.6	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	49.4	37.5 - 62.5
PCB-123	M+2/M+4	1.54	1.32-1.78	y	49.9	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	50.1	37.5 - 62.5
PCB-155	M+2/M+4	1.24	1.05-1.43	y	50.3	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	49.8	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	50.1	37.5 - 62.5
PCB-167	M+2/M+4	1.27	1.05-1.43	y	50.7	37.5 - 62.5
PCB-169	M+2/M+4	1.26	1.05-1.43	y	51.2	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	51.5	37.5 - 62.5
PCB-189	M+2/M+4	1.04	0.89-1.21	y	49.7	37.5 - 62.5
PCB-202	M+2/M+4	0.89	0.76-1.02	y	52.0	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	51.1	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	51.6	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	51.9	37.5 - 62.5
PCB-209	M+4/M+6	1.21	0.99-1.33	y	51.4	37.5 - 62.5

Analyst: _____ Date: 4/3/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 03APR19Z Sam:4 Analysis Date: 3-APR-19 10:37:22

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.24	2.66-3.60	y	103	50.0 - 145
13C-PCB-3	M/M+2	3.33	2.66-3.60	y	101	50.0 - 145
13C-PCB-4	M/M+2	1.55	1.33-1.79	y	97.7	50.0 - 145
13C-PCB-15	M/M+2	1.61	1.33-1.79	y	96.2	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	103	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	91.4	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	101	50.0 - 145
13C-PCB-77	M/M+2	0.77	0.65-0.89	y	93.3	50.0 - 145
13C-PCB-81	M/M+2	0.78	0.65-0.89	y	94.0	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	98.6	50.0 - 145
13C-PCB-105	M+2/M+4	1.62	1.32-1.78	y	94.3	50.0 - 145
13C-PCB-114	M+2/M+4	1.63	1.32-1.78	y	95.3	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	96.5	50.0 - 145
13C-PCB-123	M+2/M+4	1.61	1.32-1.78	y	94.7	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	92.7	50.0 - 145
13C-PCB-155	M+2/M+4	1.25	1.05-1.43	y	99.7	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	96.4	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	92.0	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	92.8	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	91.4	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	96.9	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	93.7	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	96.5	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	97.6	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	98.4	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	101	50.0 - 145
13C-PCB-209	M+4/M+6	1.22	0.99-1.33	y	100	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	100	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	101	75.0 - 125
13C-PCB-178	M+2/M+4	1.04	0.89-1.21	y	99.6	75.0 - 125

Analyst: [signature] Date: 4/3/19

FAL ID: ST040319Z3 Filename: 03APR19Z Sam:4 Acquired: 3-APR-19 10:37:22 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS377 R181204D ConCal: NA EndCal: NA
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	2.86e+07	3.29 y	14:35	1.19	49.8		2.50	-	-	*	-
13C-PCB-1	4.81e+07	3.24 y	14:34	1.02	103		2.50				103
PCB-3	2.65e+07	3.25 y	17:02	1.18	50.5		2.50	-	-	*	-
13C-PCB-3	4.46e+07	3.33 y	17:00	0.97	101		2.50				101
PCB-4	1.68e+07	1.57 y	18:16	1.04	48.7		2.50	-	-	*	-
13C-PCB-4	3.29e+07	1.55 y	18:15	0.74	97.7		2.50				97.7
PCB-15	2.15e+07	1.54 y	23:48	1.03	49.2		2.50	-	-	*	-
13C-PCB-15	4.23e+07	1.61 y	23:47	0.96	96.2		2.50				96.2
PCB-19	1.38e+07	1.05 y	22:09	1.11	50.3		2.50	-	-	*	-
13C-PCB-19	2.46e+07	1.07 y	22:08	0.53	103		2.50				103
13C-PCB-9	4.57e+07	1.63 y	19:55	-	58.9		2.50				
PCB-37	1.75e+07	1.02 y	30:27	1.04	51.1		2.50	-	-	*	-
13C-PCB-37	3.31e+07	1.09 y	30:26	1.57	91.4		2.50				91.4
PCB-54	1.92e+07	0.80 y	25:41	1.16	51.2		2.50	-	-	*	-
13C-PCB-54	3.23e+07	0.81 y	25:40	1.38	101		2.50				101
PCB-104	1.39e+07	1.59 y	30:08	1.08	51.1		2.50	-	-	*	-
13C-PCB-104	2.52e+07	1.59 y	30:06	1.11	98.6		2.50				98.6
13C-PCB-28	3.95e+07	1.07 y	26:45	1.71	100		2.50				100
13C-PCB-52	2.31e+07	0.80 y	29:01	-	60.6		2.50				
PCB-81	1.46e+07	0.80 y	36:13	1.06	50.2		2.50	-	-	*	-
13C-PCB-81	2.73e+07	0.78 y	36:12	1.50	94.0		2.50				94.0
PCB-77	1.44e+07	0.79 y	36:47	1.02	49.9		2.50	-	-	*	-
13C-PCB-77	2.83e+07	0.77 y	36:46	1.57	93.3		2.50				93.3
PCB-155	1.41e+07	1.24 y	34:17	1.02	50.3		2.50	-	-	*	-
13C-PCB-155	2.74e+07	1.25 y	34:16	1.42	99.7		2.50				99.7
13C-PCB-111	2.52e+07	1.60 y	36:21	1.29	101		2.50				101
13C-PCB-101	1.93e+07	1.61 y	34:42	-	58.8		2.50				
PCB-123	1.29e+07	1.54 y	38:25	1.03	49.9		2.50	-	-	*	-
13C-PCB-123	2.49e+07	1.61 y	38:23	1.40	94.7		2.50				94.7
PCB-118	1.40e+07	1.56 y	38:35	1.02	49.4		2.50	-	-	*	-
13C-PCB-118	2.79e+07	1.61 y	38:33	1.53	96.5		2.50				96.5
PCB-114	1.28e+07	1.54 y	39:11	1.01	48.6		2.50	-	-	*	-
13C-PCB-114	2.60e+07	1.63 y	39:11	1.45	95.3		2.50				95.3
PCB-105	1.28e+07	1.55 y	40:00	1.02	49.2		2.50	-	-	*	-
13C-PCB-105	2.56e+07	1.62 y	39:59	1.44	94.3		2.50				94.3
PCB-126	1.22e+07	1.58 y	42:09	1.02	50.1		2.50	-	-	*	-
13C-PCB-126	2.39e+07	1.60 y	42:07	1.37	92.7		2.50				92.7
PCB-167	1.22e+07	1.27 y	43:29	1.07	50.7		2.50	-	-	*	-
13C-PCB-167	2.24e+07	1.28 y	43:29	1.28	92.8		2.50				92.8
PCB-156	1.23e+07	1.26 y	44:44	1.10	49.8		2.50	-	-	*	-
13C-PCB-156	2.25e+07	1.29 y	44:42	1.24	96.4		2.50				96.4
PCB-157	1.23e+07	1.27 y	44:58	1.06	50.1		2.50	-	-	*	-
13C-PCB-157	2.32e+07	1.29 y	44:57	1.34	92.0		2.50				92.0
PCB-169	1.16e+07	1.26 y	46:50	1.06	51.2		2.50	-	-	*	-
13C-PCB-169	2.14e+07	1.27 y	46:49	1.24	91.4		2.50				91.4
PCB-188	1.23e+07	1.05 y	39:47	1.02	51.5		2.50	-	-	*	-
13C-PCB-188	2.35e+07	1.07 y	39:46	1.29	96.9		2.50				96.9
PCB-189	9.29e+06	1.04 y	48:29	0.99	49.7		2.50	-	-	*	-
13C-PCB-189	1.88e+07	1.06 y	48:27	1.07	93.7		2.50				93.7
PCB-202	1.02e+07	0.89 y	44:53	0.99	52.0		2.50	-	-	*	-
13C-PCB-202	1.98e+07	0.90 y	44:52	1.09	96.5		2.50				96.5
13C-PCB-178	1.51e+07	1.04 y	42:24	0.81	99.6		2.50				99.6
13C-PCB-138	1.88e+07	1.30 y	41:38	-	58.6		2.50				

FAL ID: ST040319Z3 Filename: 03APR19Z Sam:4 Acquired: 3-APR-19 10:37:22 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS377 R181204D ConCal: NA EndCal: NA
Results: GC Column: DB1MS Amount: 1.000

PCB-205	1.25e+07	0.89 y	50:07	1.02	51.1	2.50	-	-	*	-
13C-PCB-205	2.39e+07	0.90 y	50:07	1.40	97.6	2.50				97.6
PCB-208	1.22e+07	1.36 y	49:12	0.98	51.9	2.50	-	-	*	-
13C-PCB-208	2.42e+07	0.81 y	49:11	1.36	101	2.50				101
PCB-206	8.90e+06	1.37 y	51:21	0.99	51.6	2.50	-	-	*	-
13C-PCB-206	1.73e+07	0.80 y	51:19	1.01	98.4	2.50				98.4
PCB-209	1.19e+07	1.21 y	52:33	1.09	51.4	2.50	-	-	*	-
13C-PCB-209	2.13e+07	1.22 y	52:31	1.21	100	2.50				100
13C-PCB-194	1.75e+07	0.89 y	49:52	-	57.1	2.50				

Analyst: _____ Date: 4/3/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:03APR19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

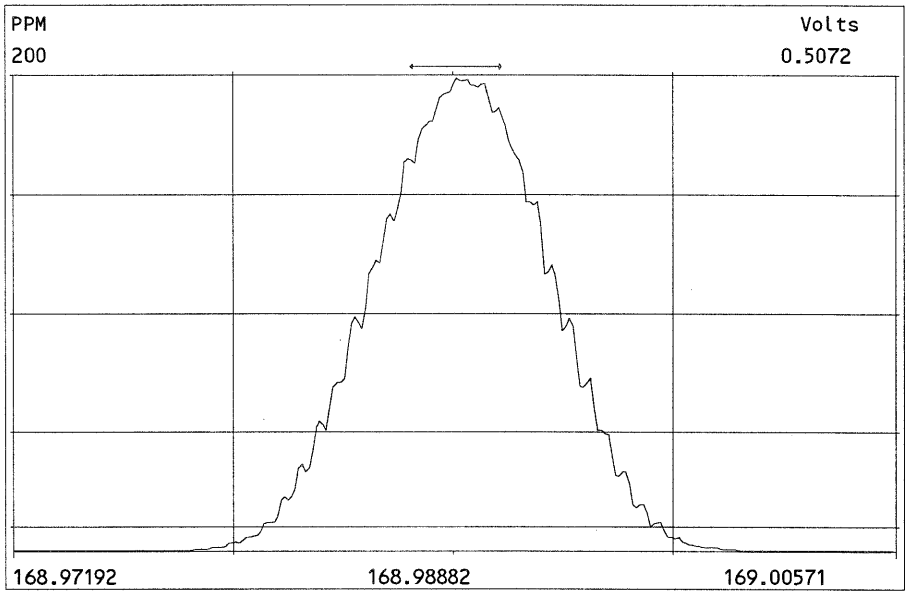
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
03APR19Z	1	ST040319Z0	1668 CS077 R170821A	3-APR-19 07:41:54	NA	NA	BS
03APR19Z	2	ST040319Z1	1668 CS177 R170213A	3-APR-19 08:40:14	NA	NA	BS
03APR19Z	3	ST040319Z2	1668 CS277 R170213B	3-APR-19 09:38:36	NA	NA	BS
03APR19Z	4	ST040319Z3	1668 CS377 R181204D	3-APR-19 10:37:22	NA	NA	BS
03APR19Z	5	ST040319Z4	1668 CS477 R181022B	3-APR-19 11:35:43	NA	NA	BS
03APR19Z	6	ST040319Z5	1668 CS577 R130426C	3-APR-19 12:34:04	NA	NA	BS
03APR19Z	7	SB040319Z1	Solvent Blank	3-APR-19 13:32:26	NA	NA	BS
03APR19Z	8	SS040319Z1	Daily CS20977 170620B	3-APR-19 14:30:48	ST040319Z3	ST040319Z6	BS
03APR19Z	9	SS040319Z2	2nd Source 170815A	3-APR-19 15:29:09	ST040319Z3	ST040319Z6	BS
03APR19Z	10	SB040319Z2	Solvent Blank	3-APR-19 16:27:30	NA	NA	BS
03APR19Z	11	QC040319Z1	KQC	3-APR-19 17:25:53	NA	NA	BS
03APR19Z	12	QC040319Z2	BQC	3-APR-19 18:24:14	NA	NA	BS
03APR19Z	13	SB040319Z3	Solvent Blank	3-APR-19 19:22:36	NA	NA	BS
03APR19Z	14	ST040619Z6	1668 CS378 R181204D	3-APR-19 20:20:56	ST040319Z3	ST040319Z6	BS

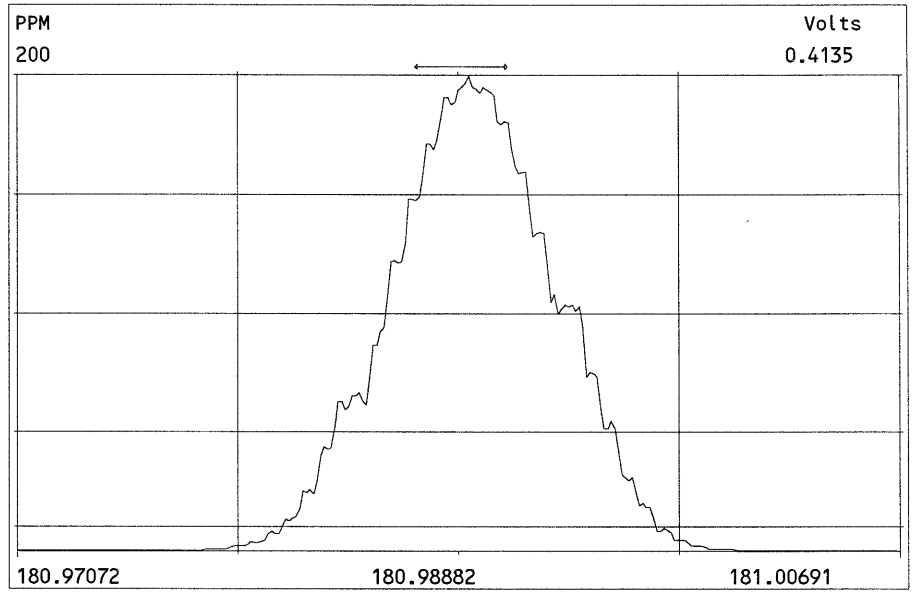
4/4/19

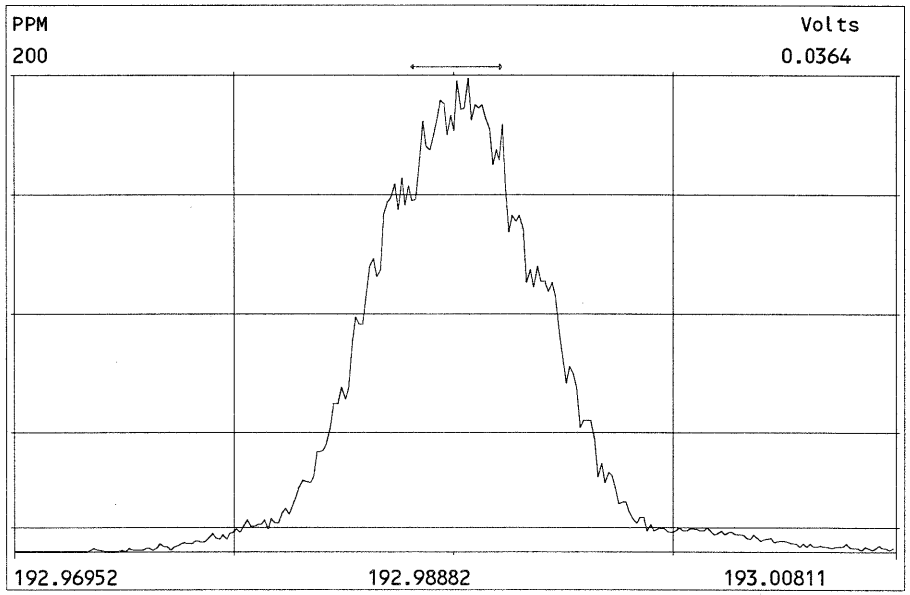
Data Backed Up:_____

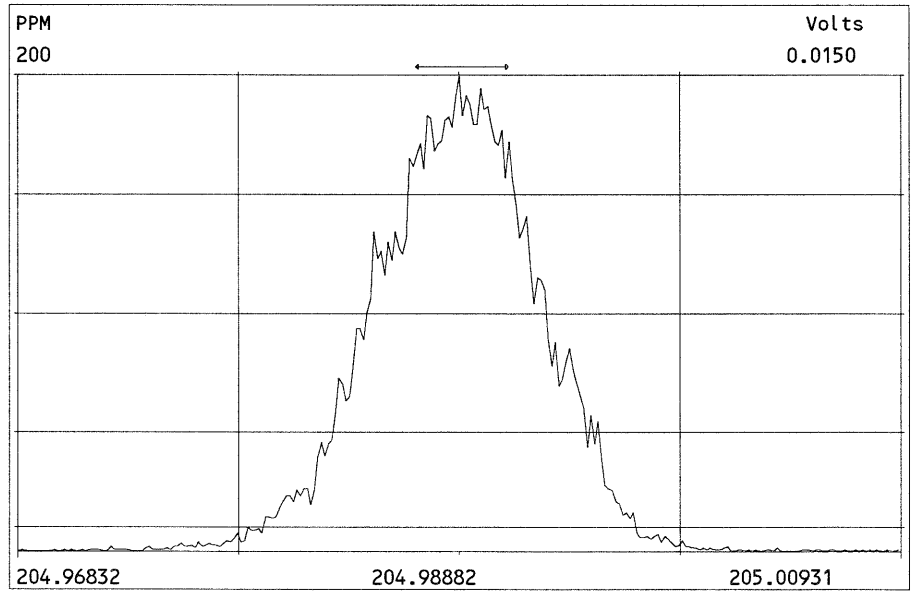
Date:_____

Peak Locate Examination: 3-APR-2019:07:38 File:03APR19Z
Experiment:1668PCB Function:1 Reference:PFK 77

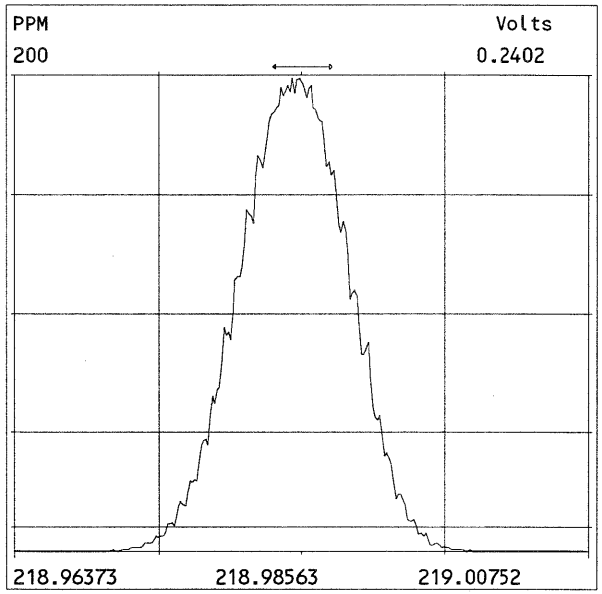


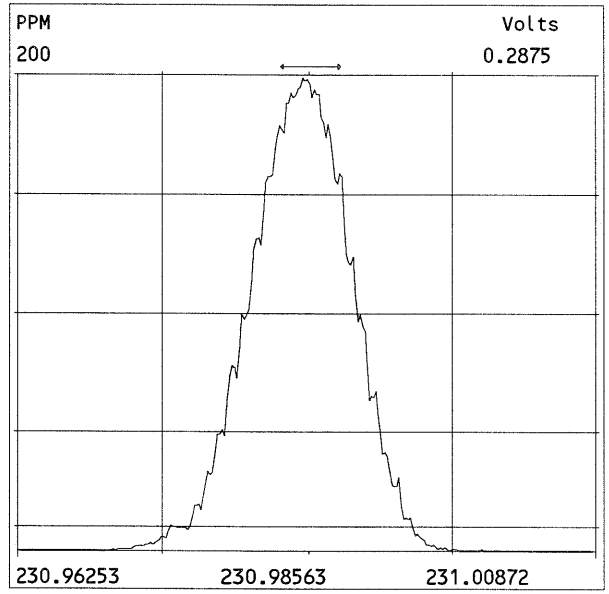


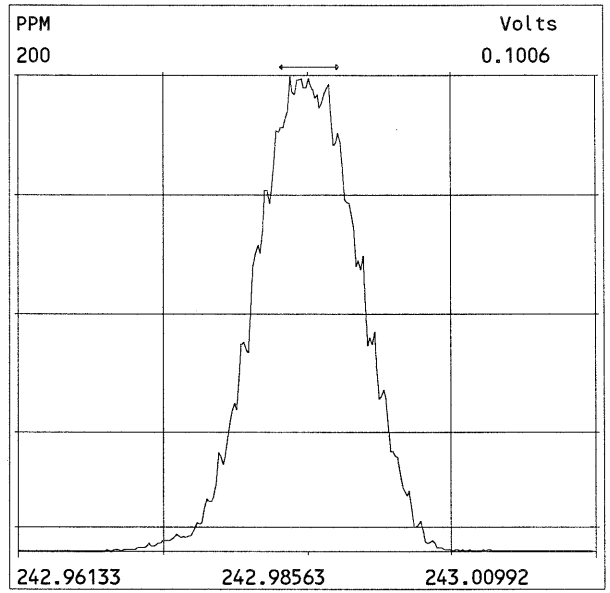


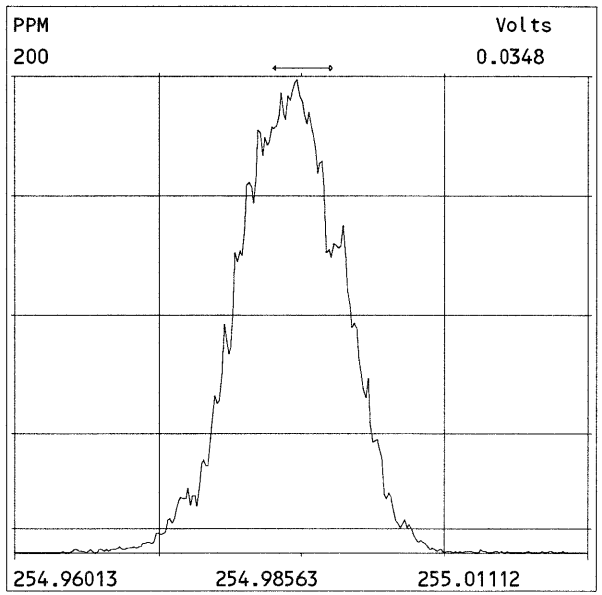


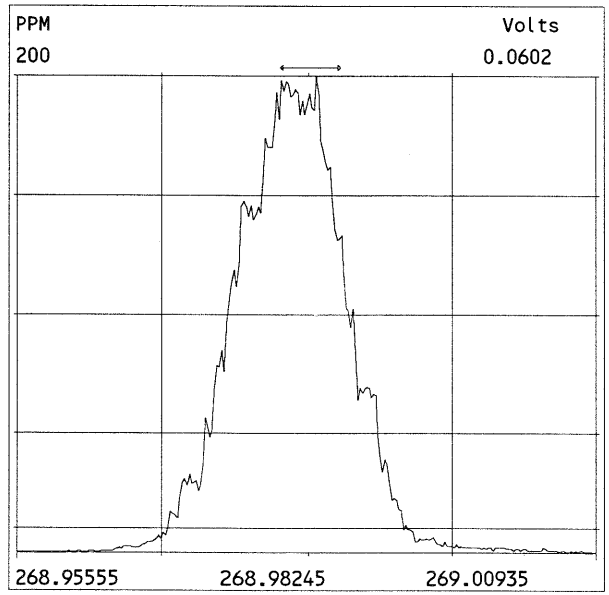
Peak Locate Examination: 3-APR-2019:07:39 File:03APR19Z
Experiment:1668PCB Function:2 Reference:PFK77

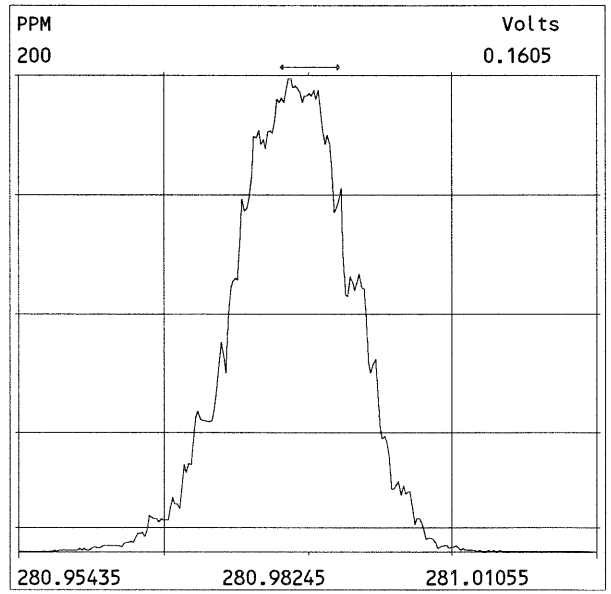




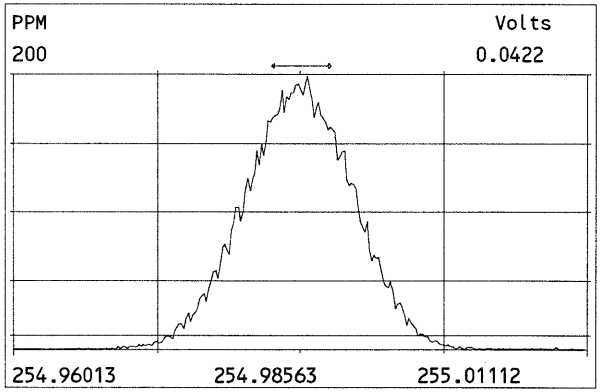


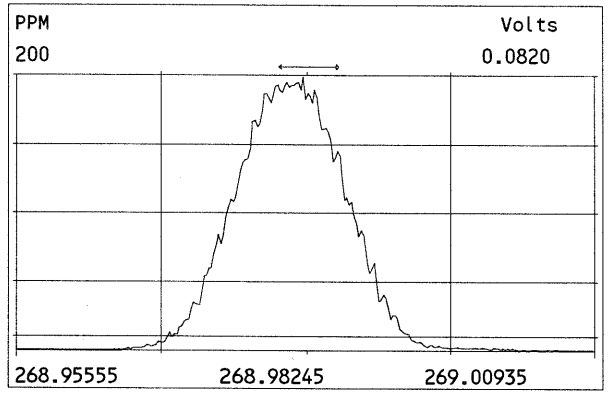


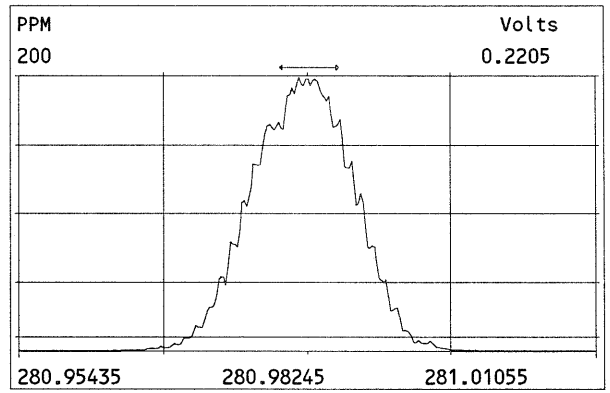


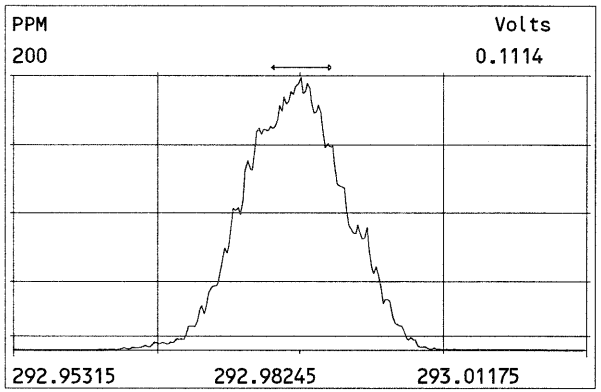


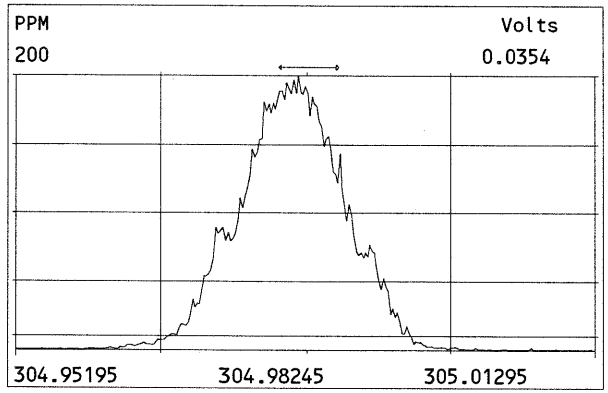
Peak Locate Examination: 3-APR-2019:07:39 File:03APR19Z
Experiment:1668PCB Function:3 Reference:PFK77

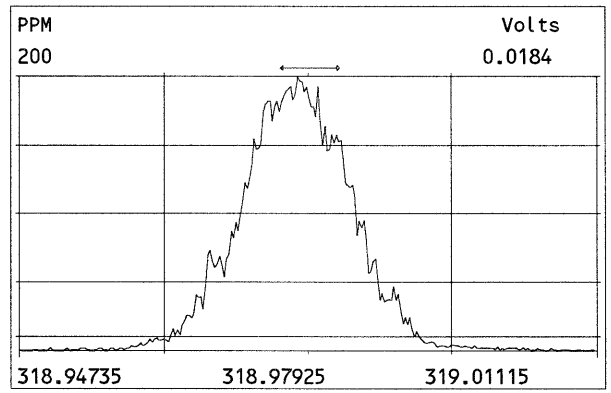


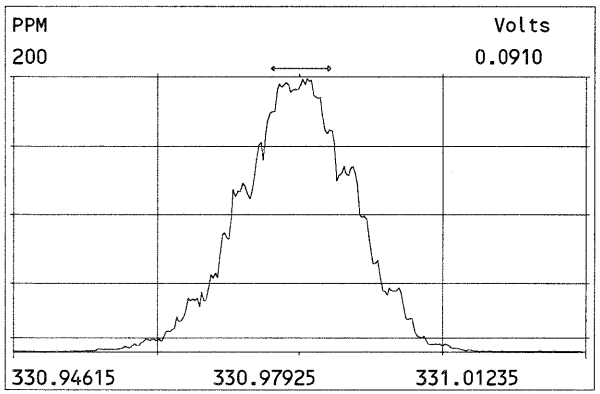


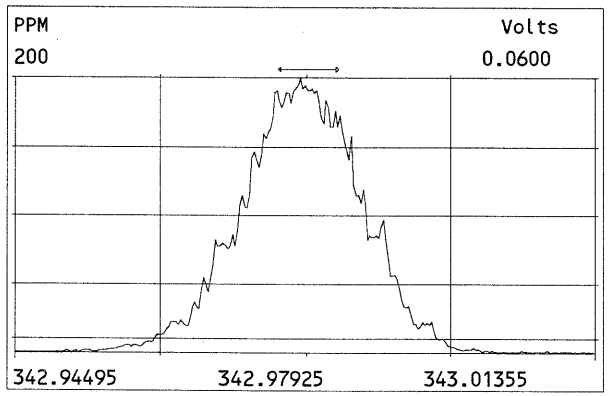




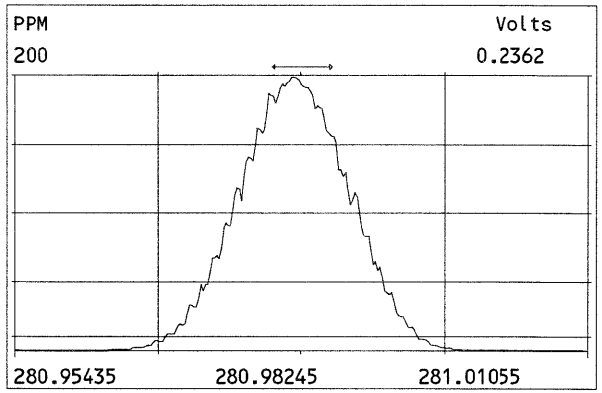


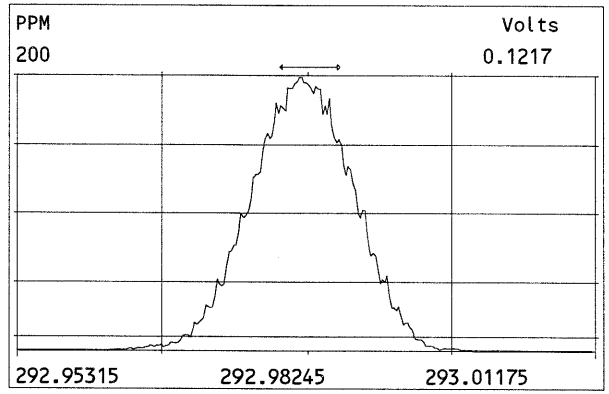


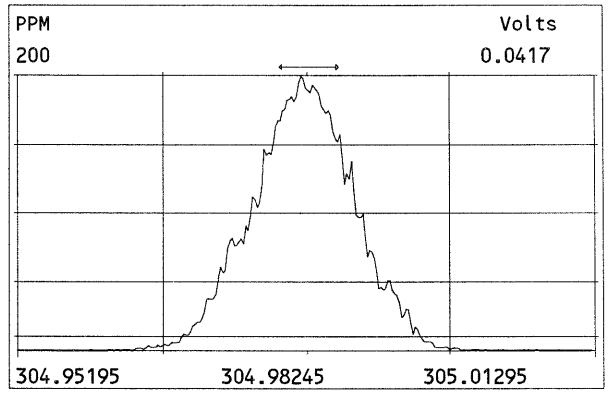


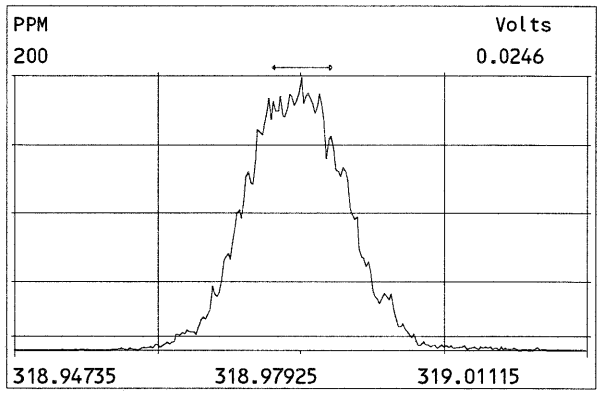


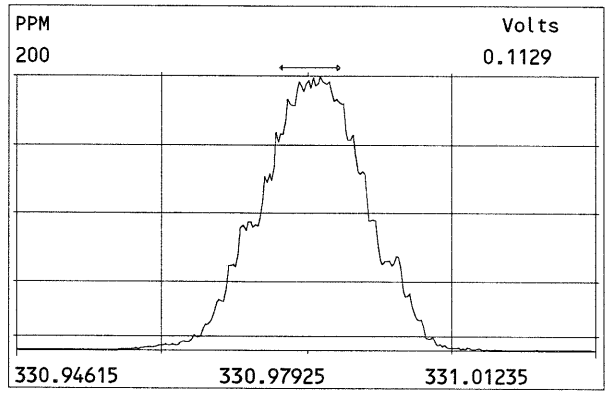
Peak Locate Examination: 3-APR-2019:07:40 File:03APR19Z
Experiment:1668PCB Function:4 Reference:PFK77

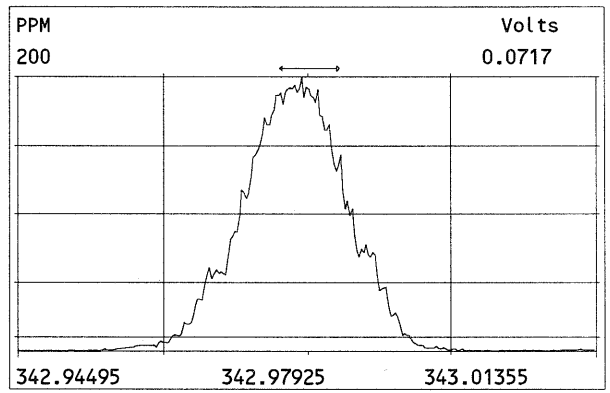


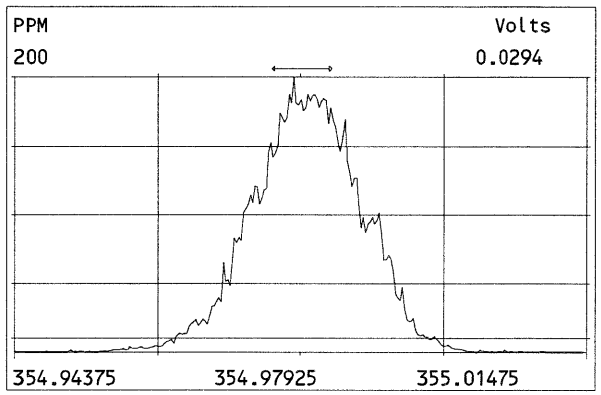


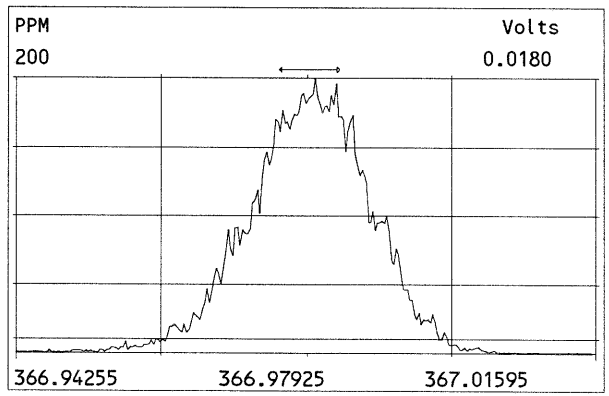


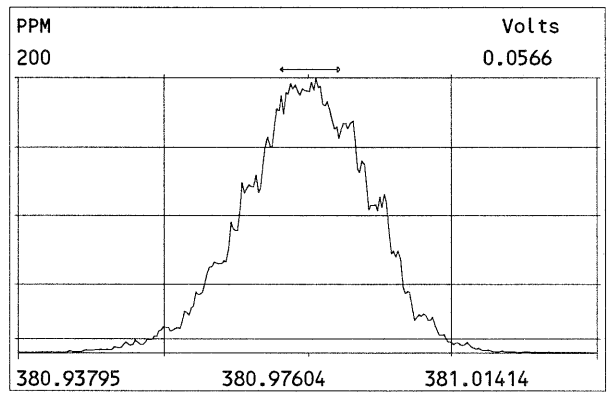




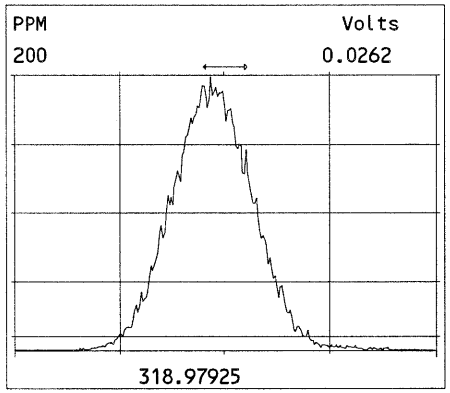


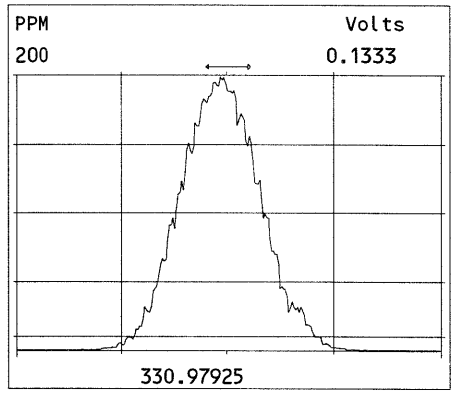


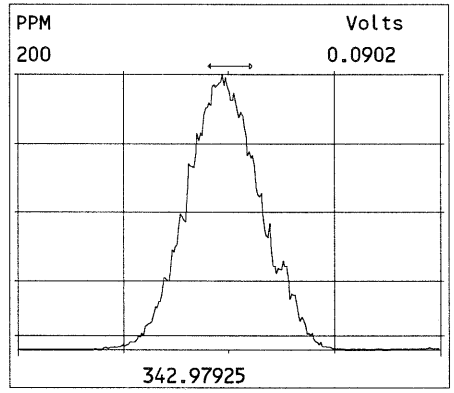


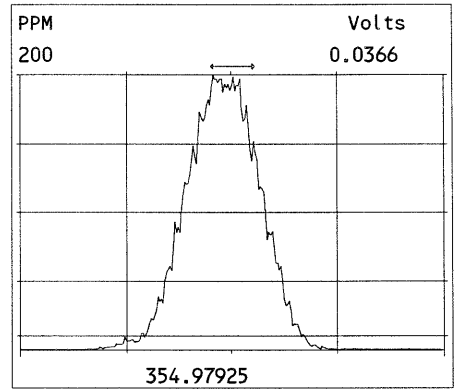


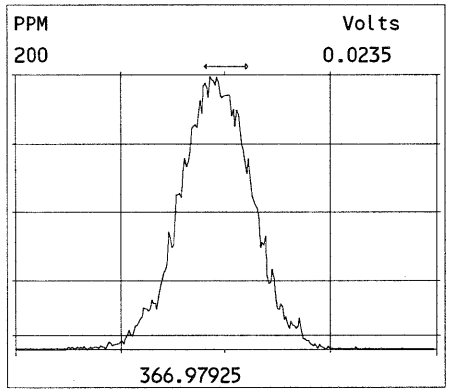
Peak Locate Examination: 3-APR-2019:07:40 File:03APR19Z
Experiment:1668PCB Function:5 Reference:PFK77

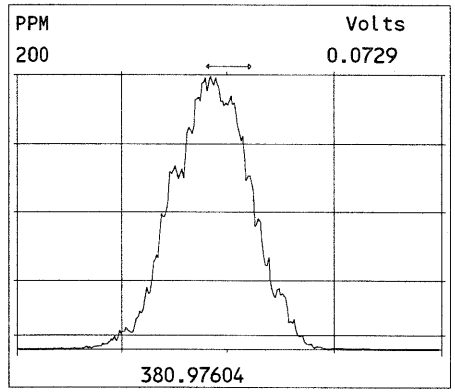


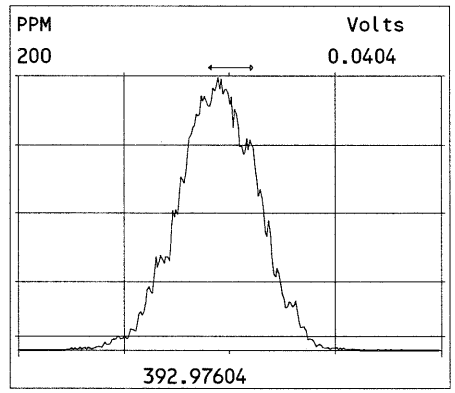


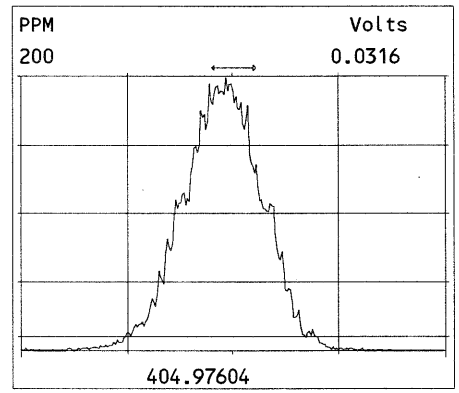


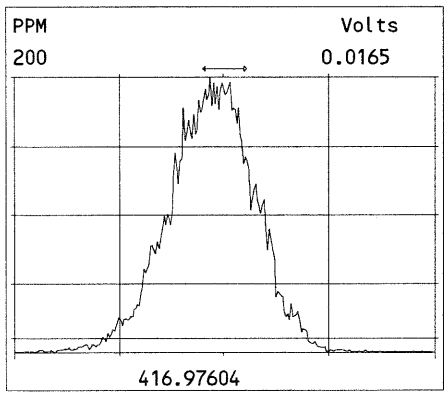


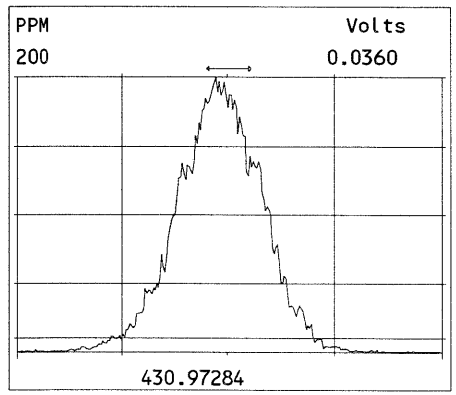


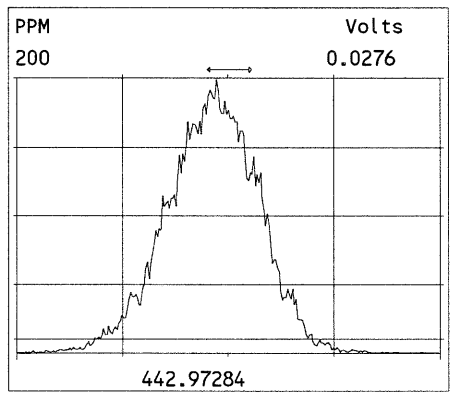




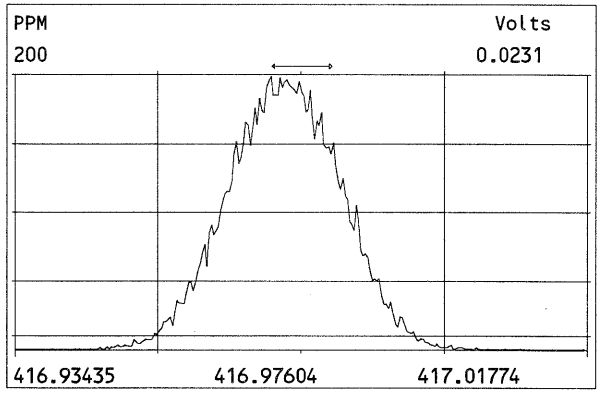


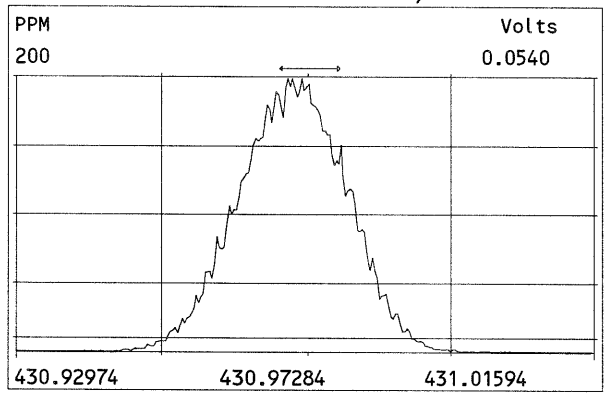


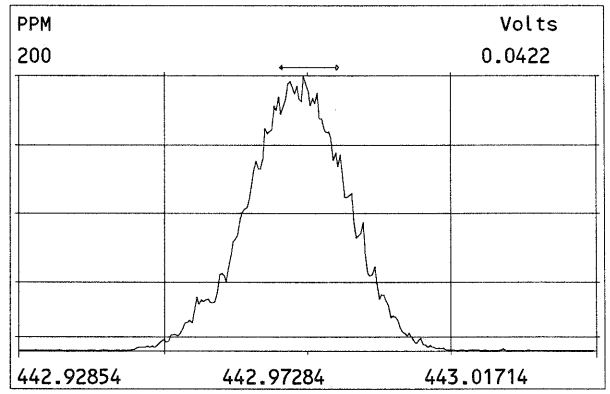


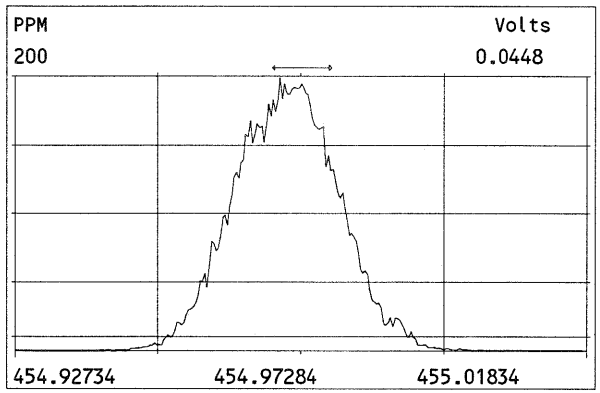


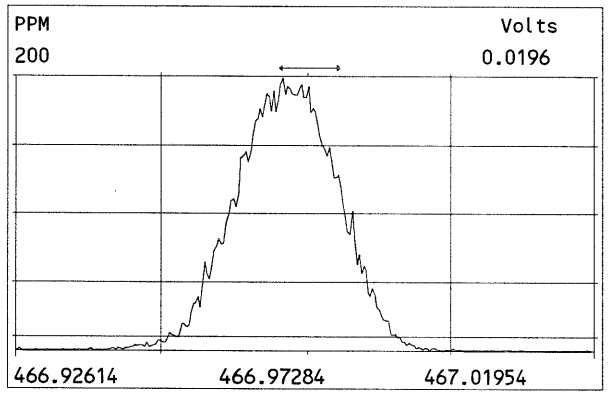
Peak Locate Examination: 3-APR-2019:07:41 File:03APR19Z
Experiment:1668PCB Function:6 Reference:PFK 77

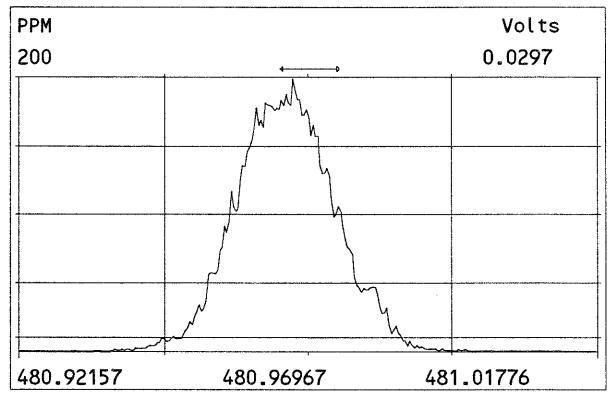


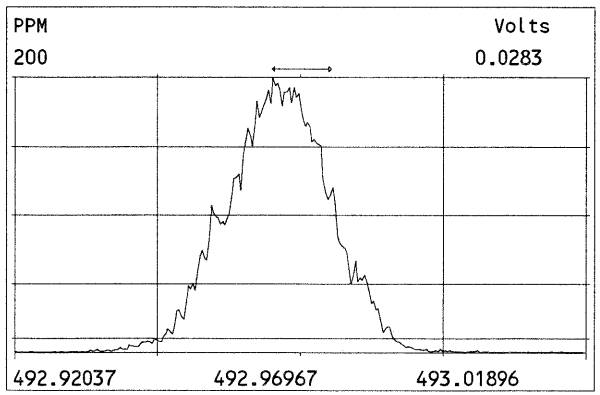


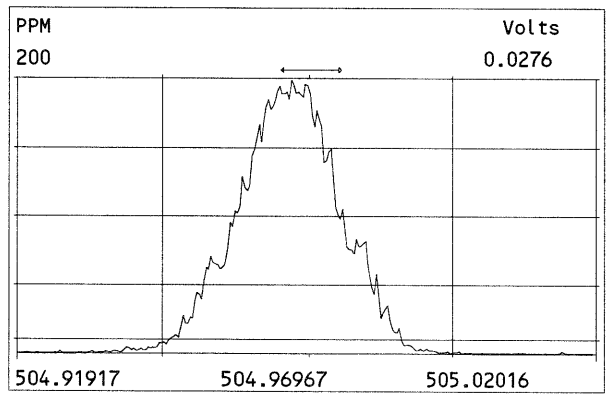


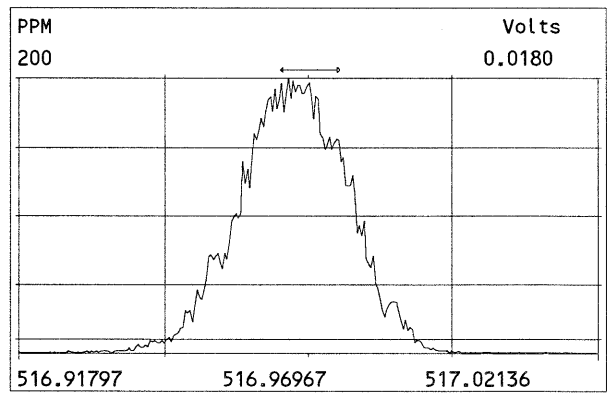




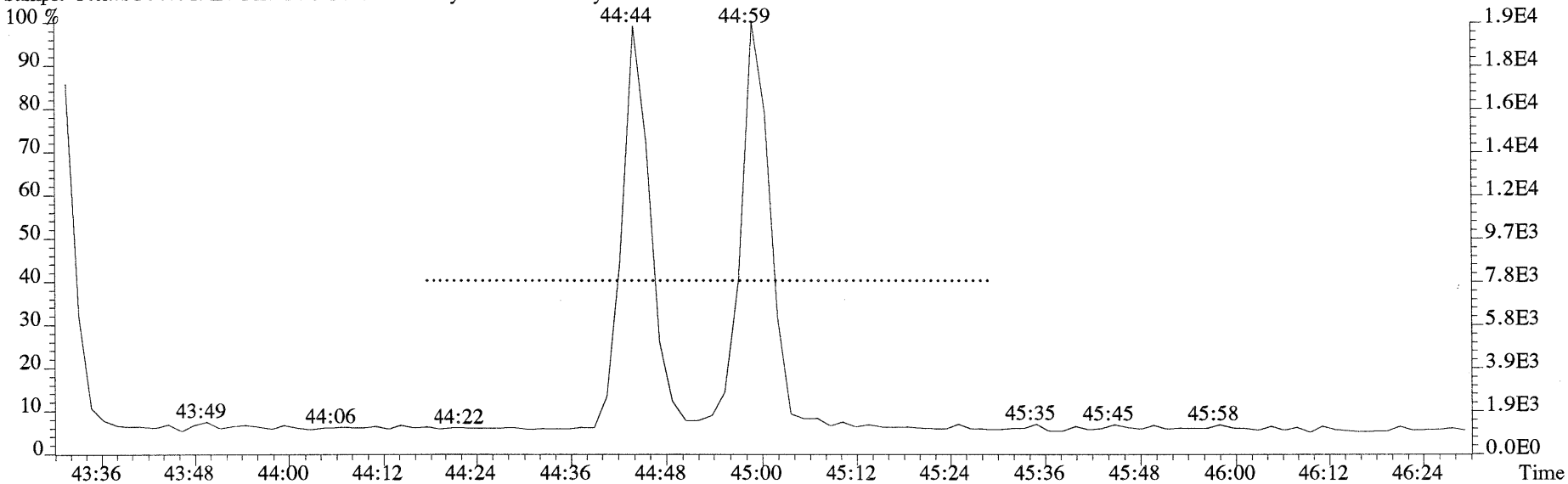




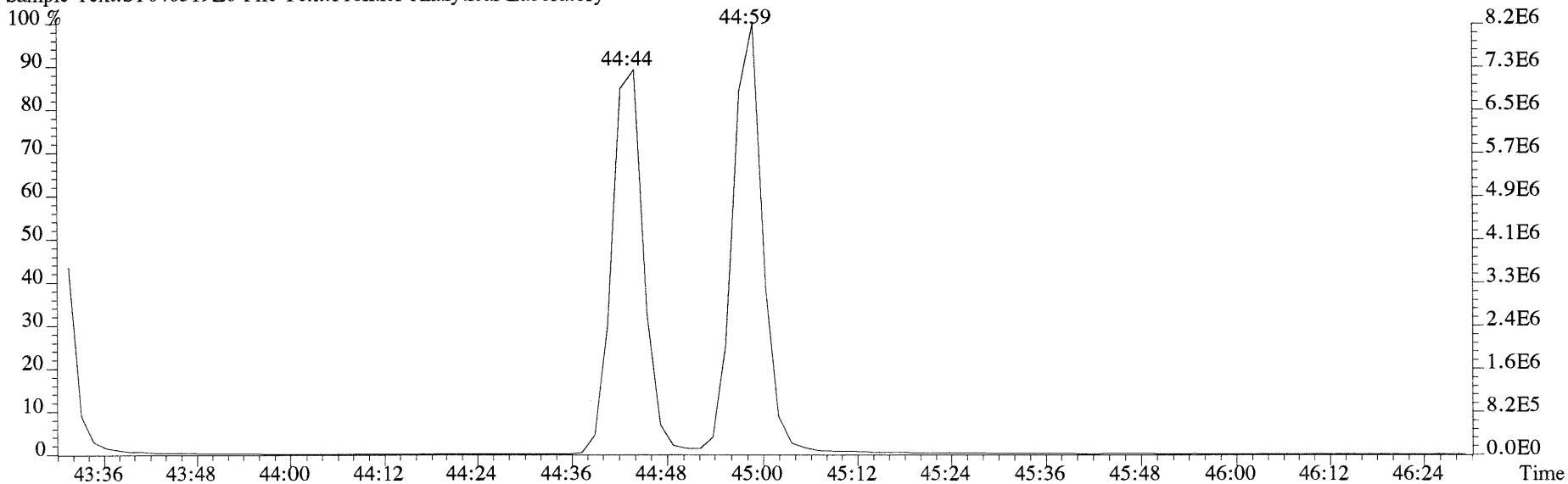




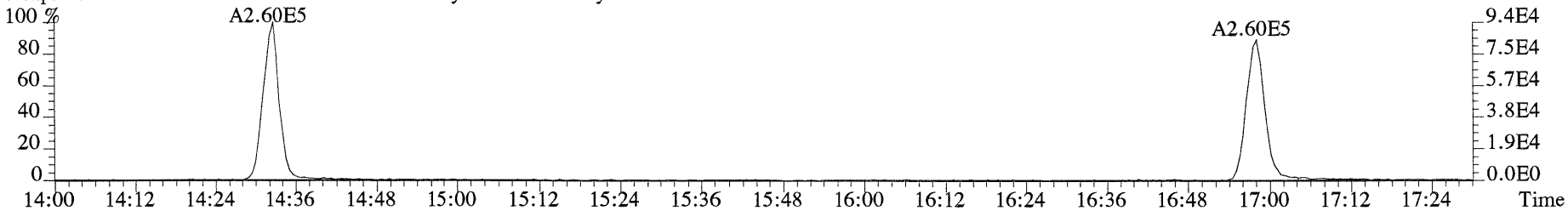
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



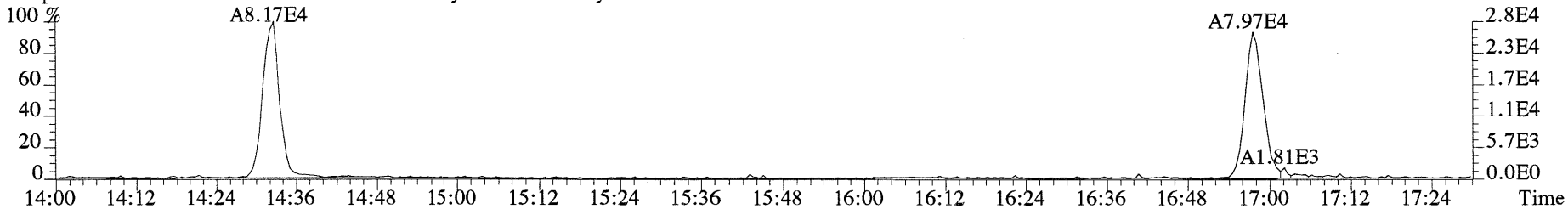
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



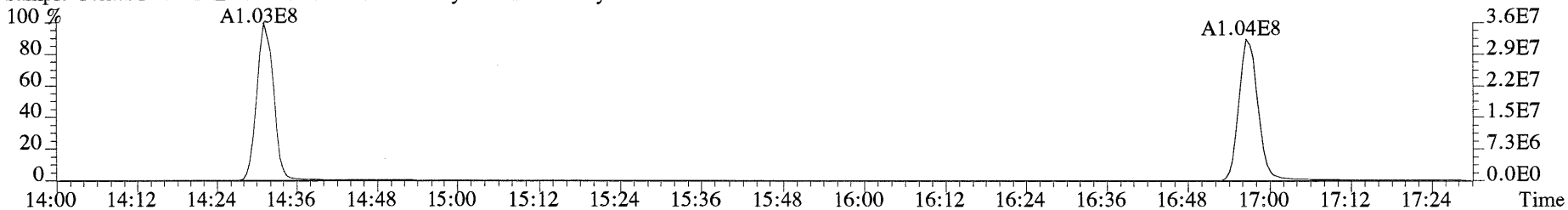
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



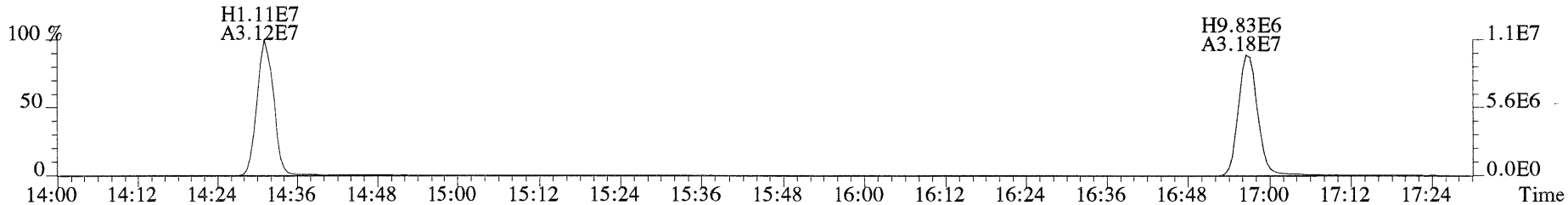
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



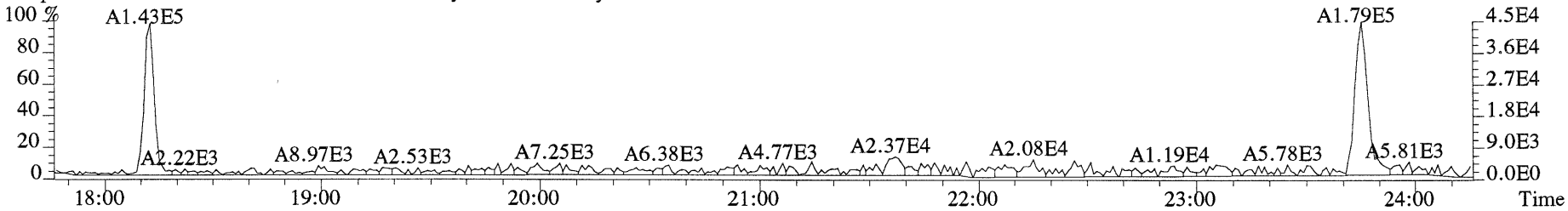
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



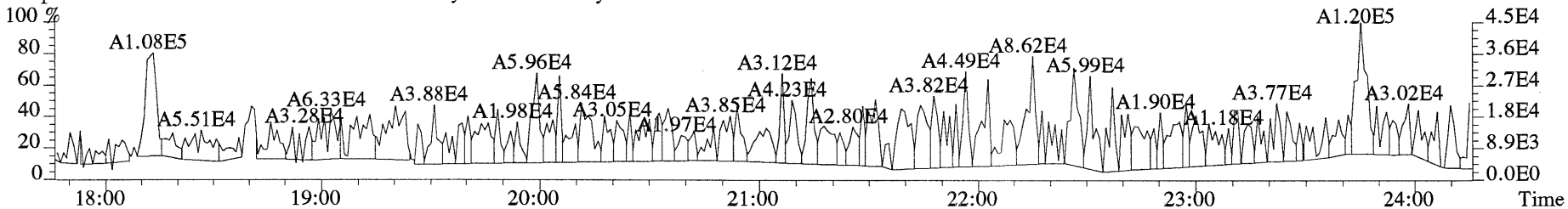
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



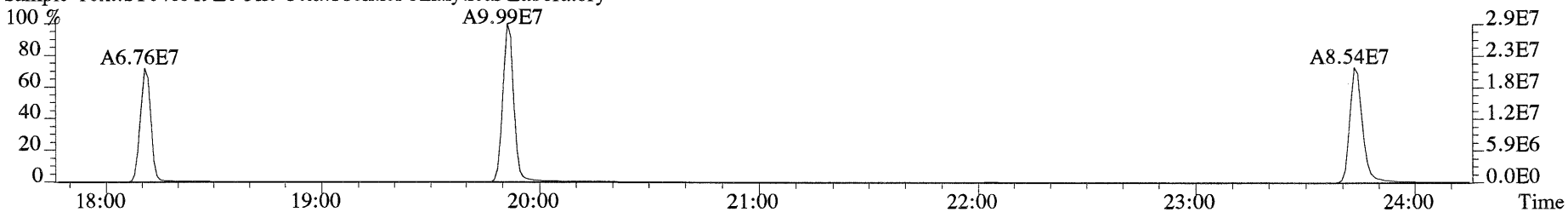
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



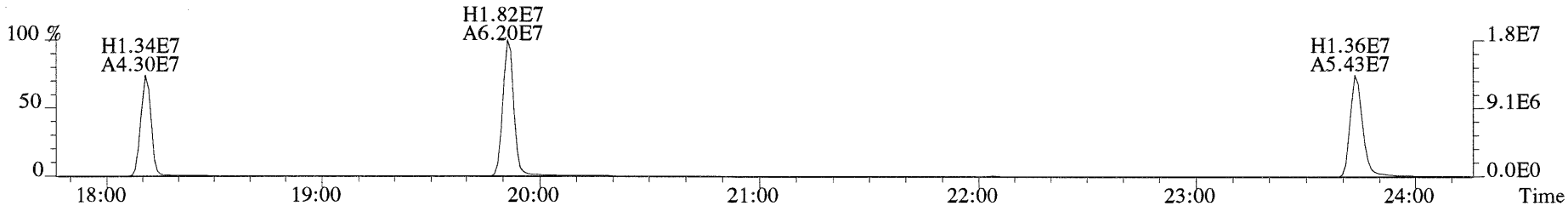
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



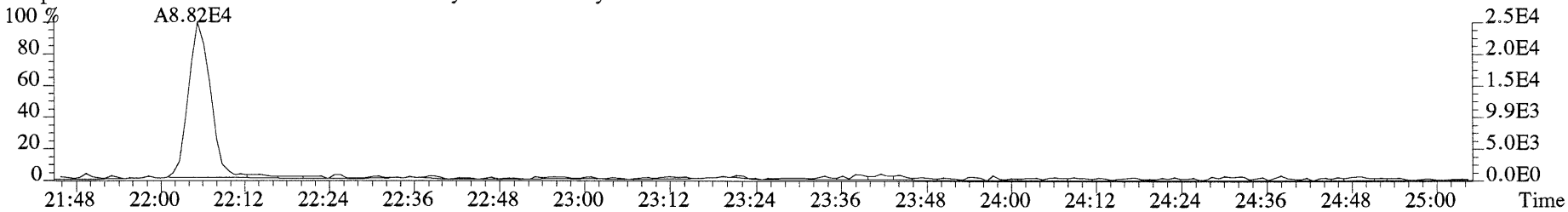
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



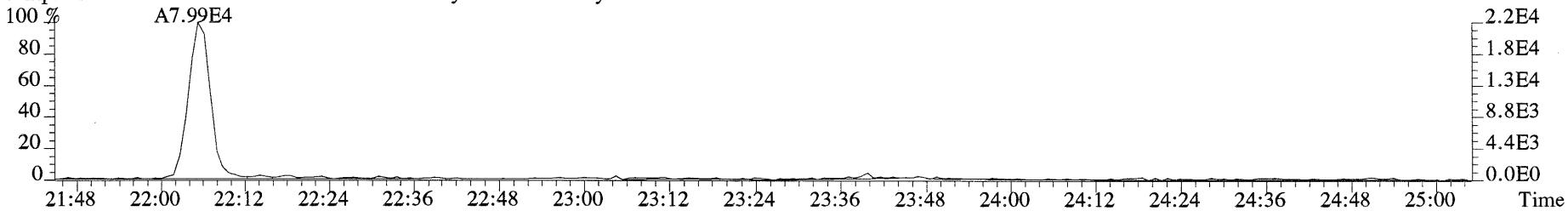
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



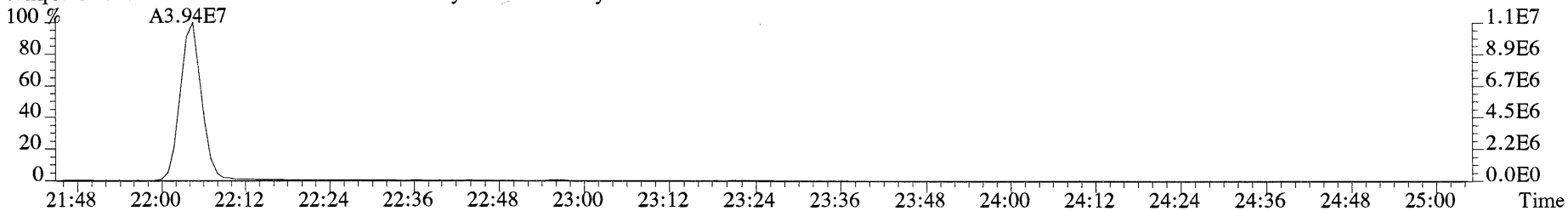
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



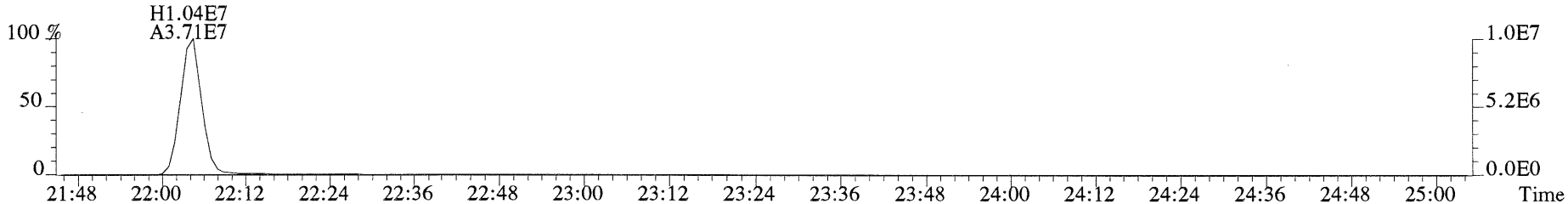
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



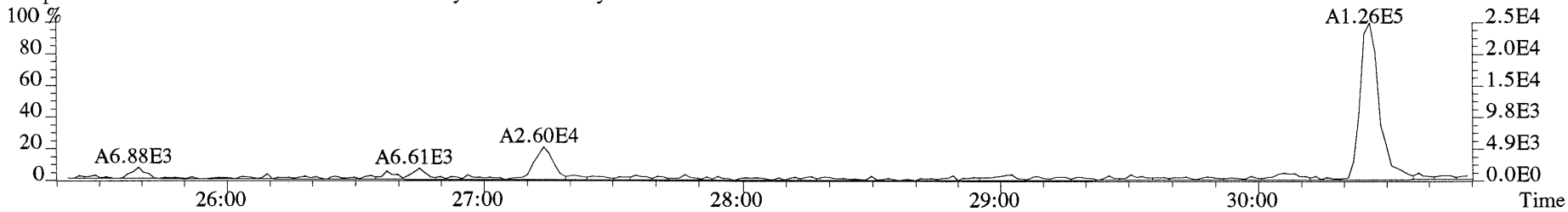
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



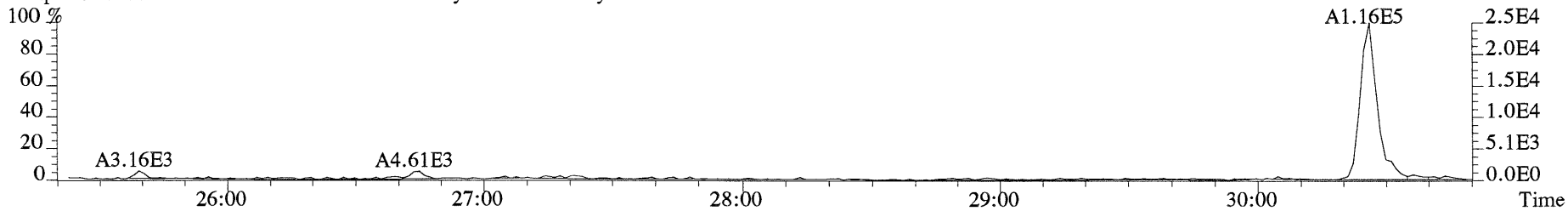
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



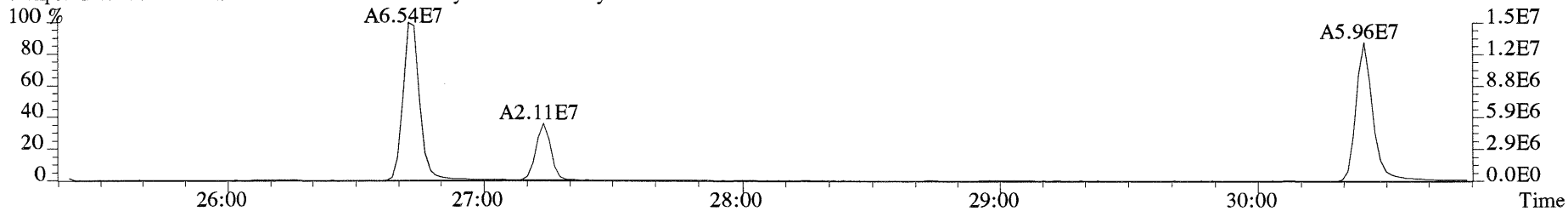
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



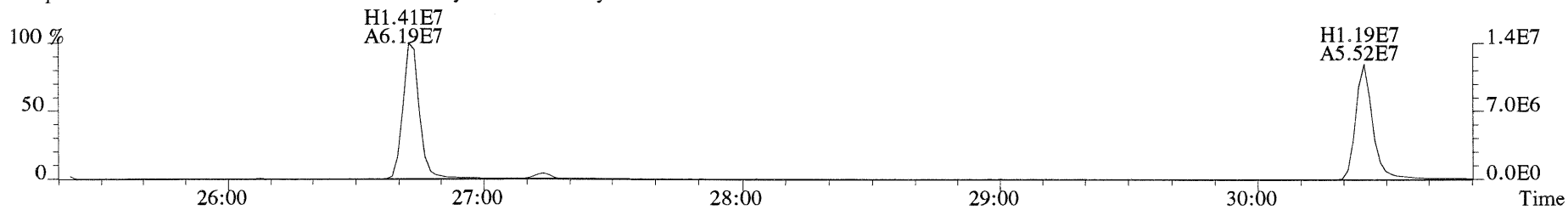
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



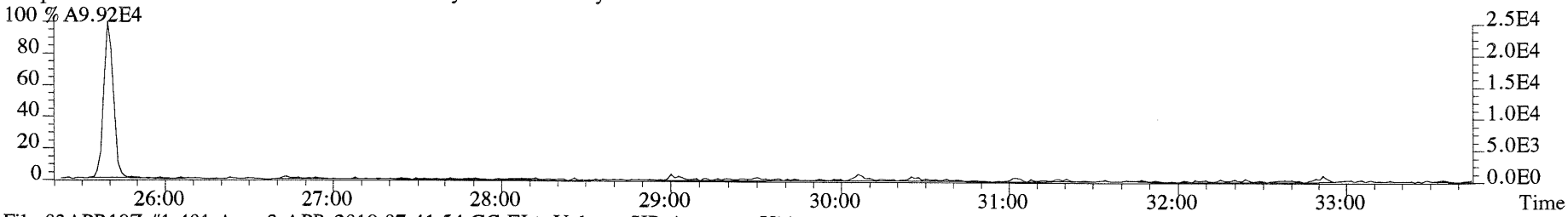
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



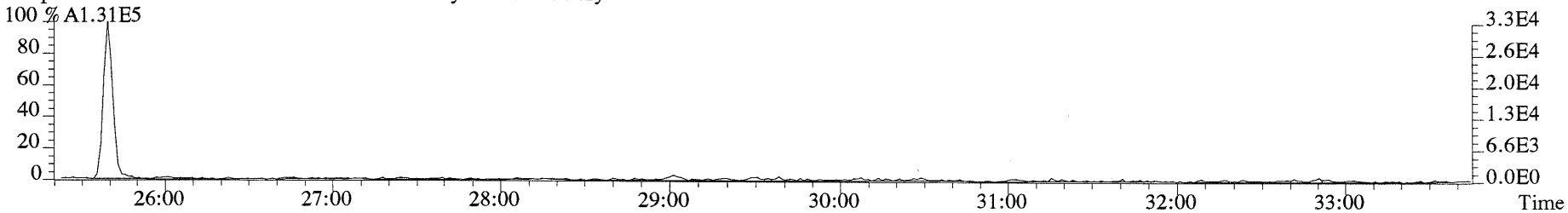
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



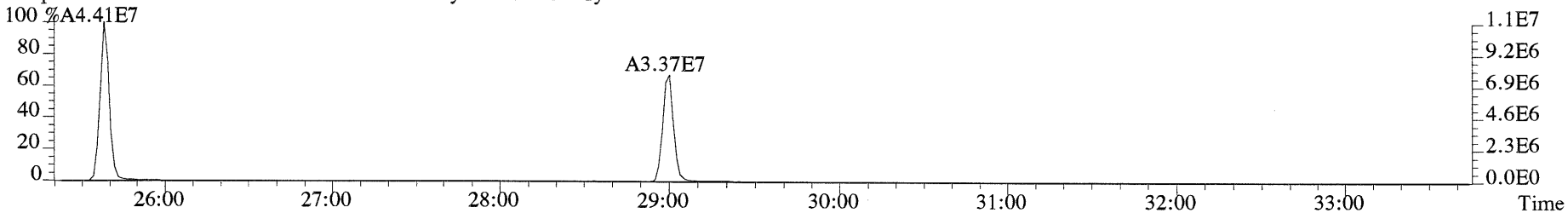
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



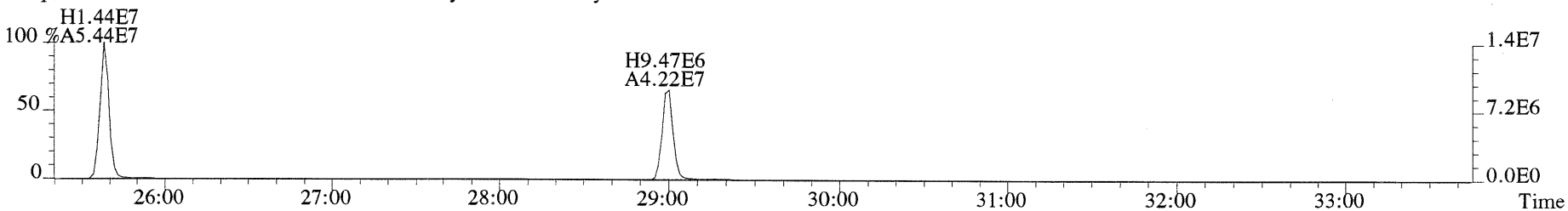
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



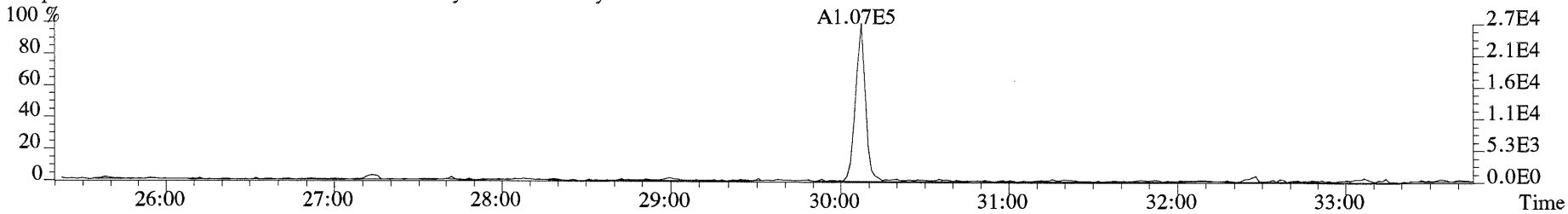
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



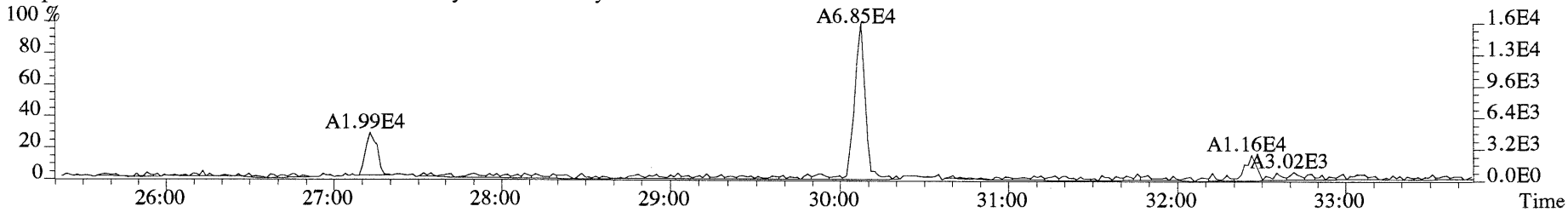
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



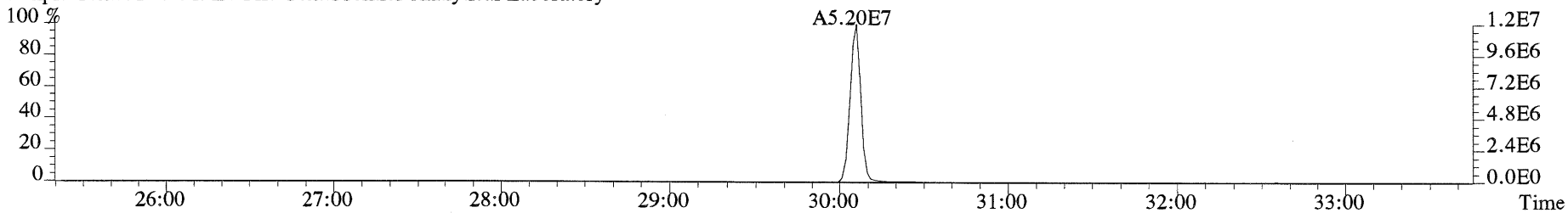
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



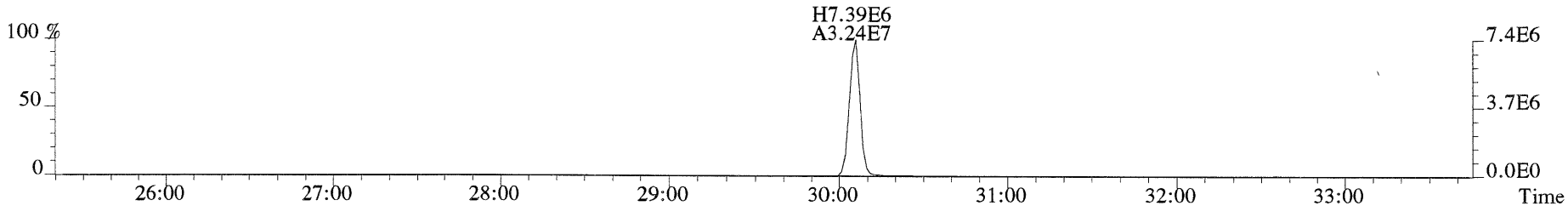
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



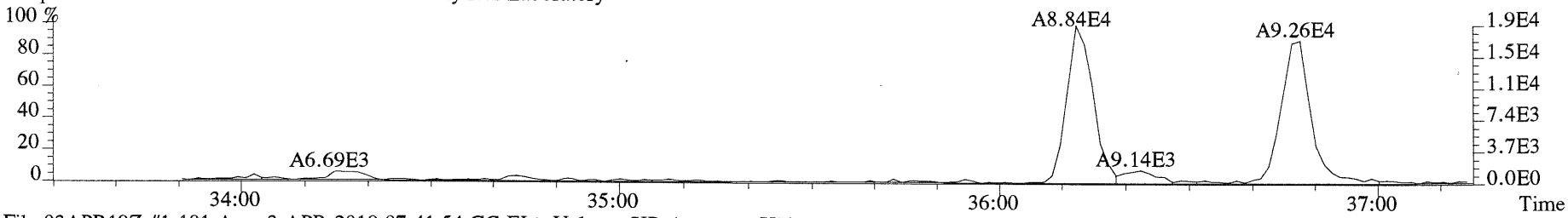
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



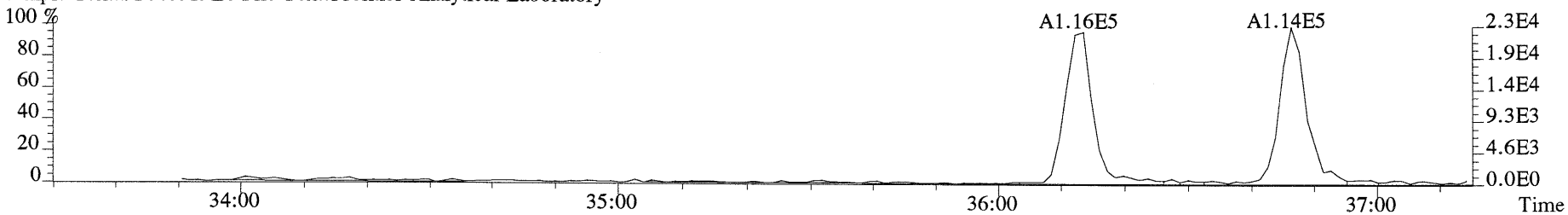
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



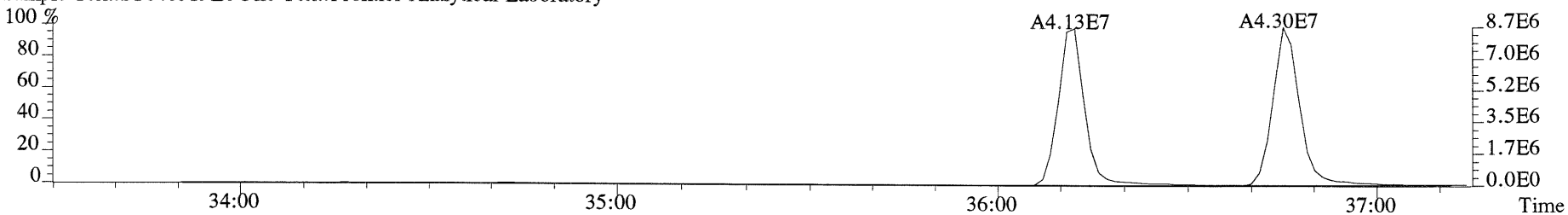
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



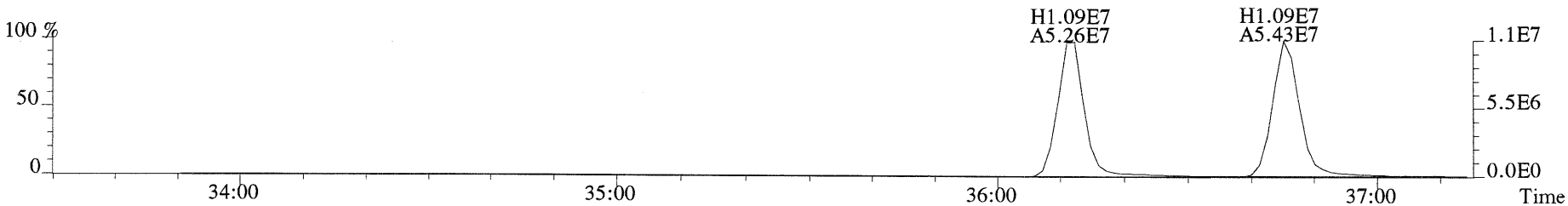
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



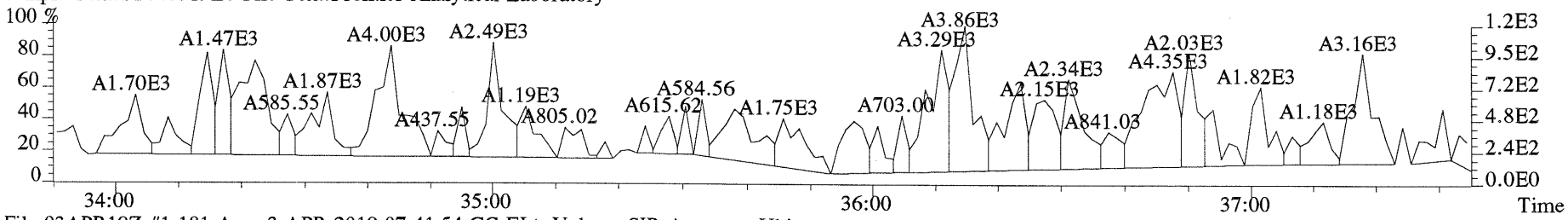
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



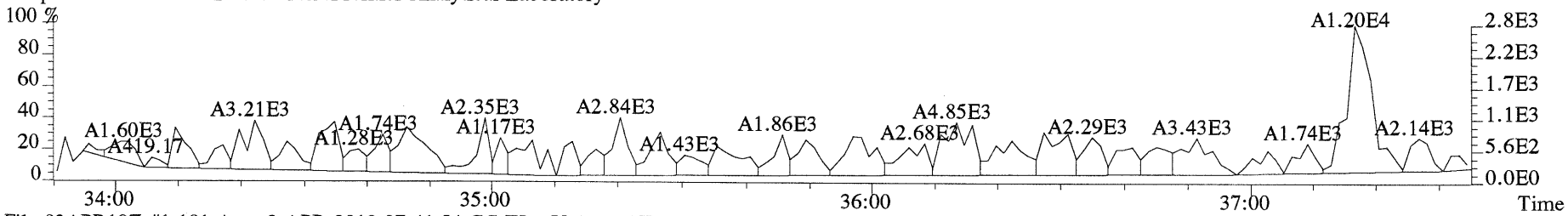
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



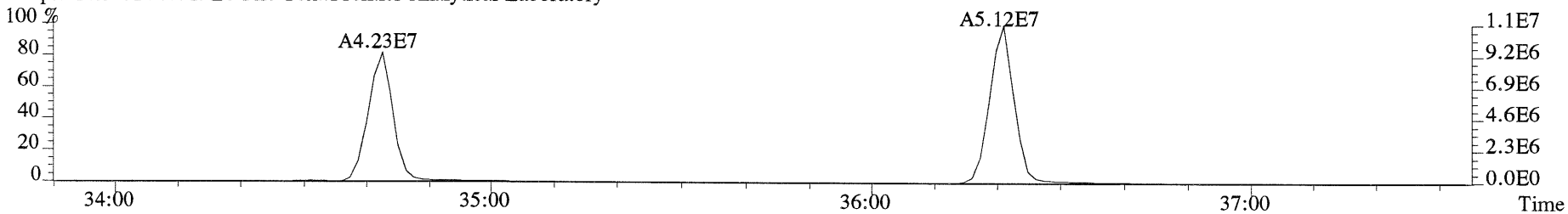
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



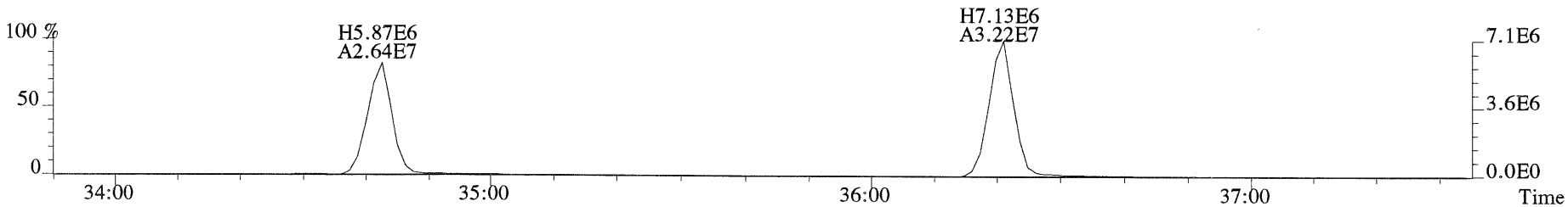
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



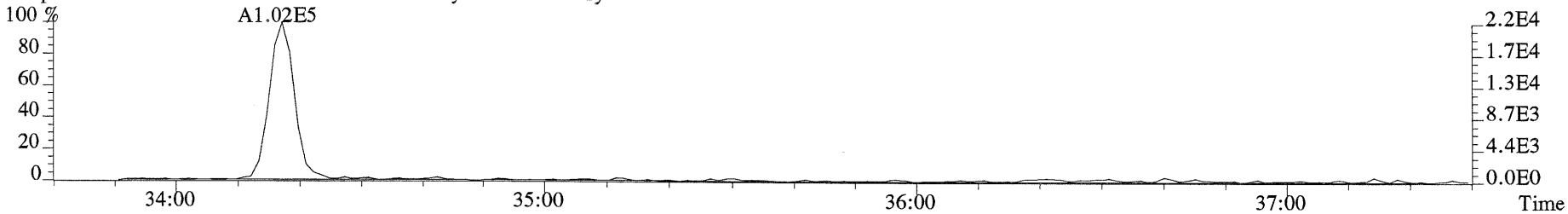
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



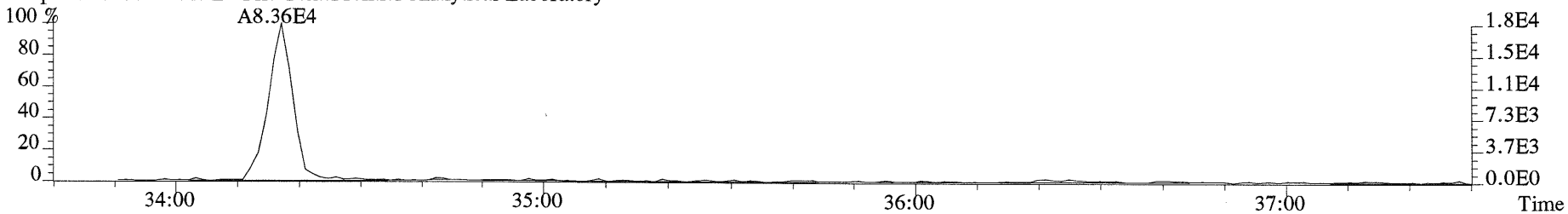
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



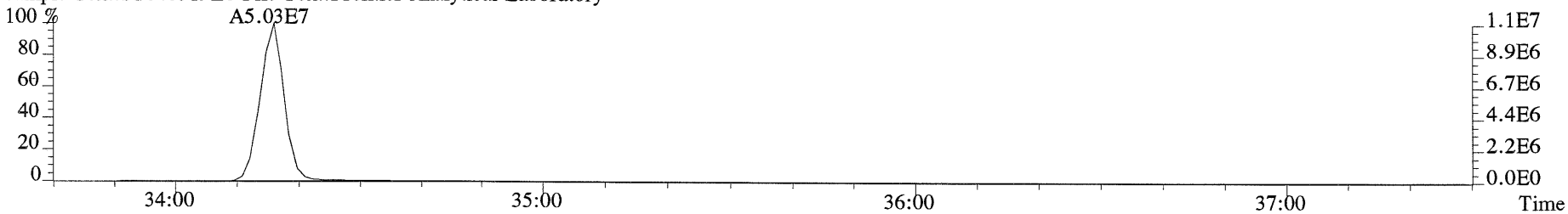
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



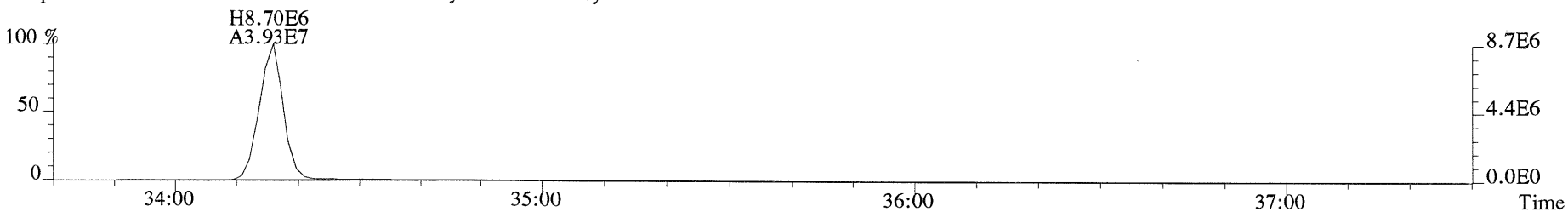
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



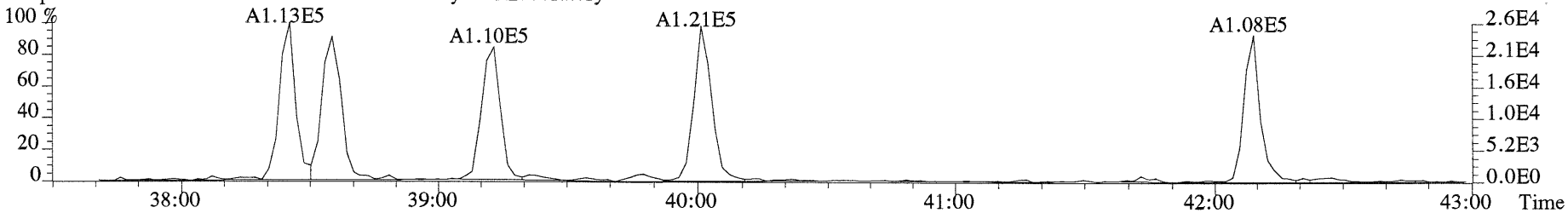
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



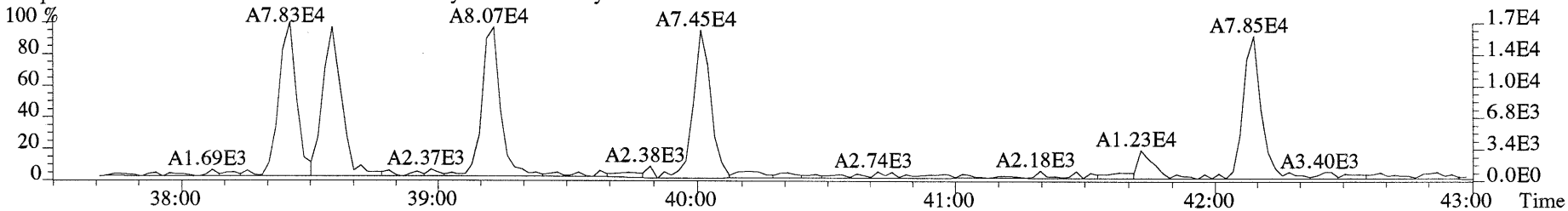
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



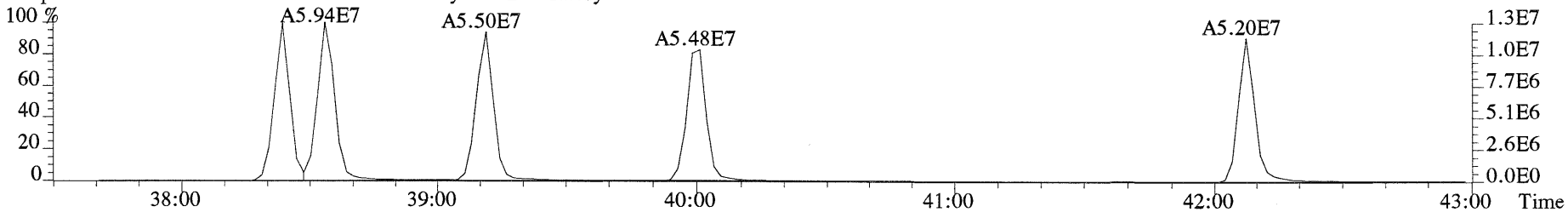
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



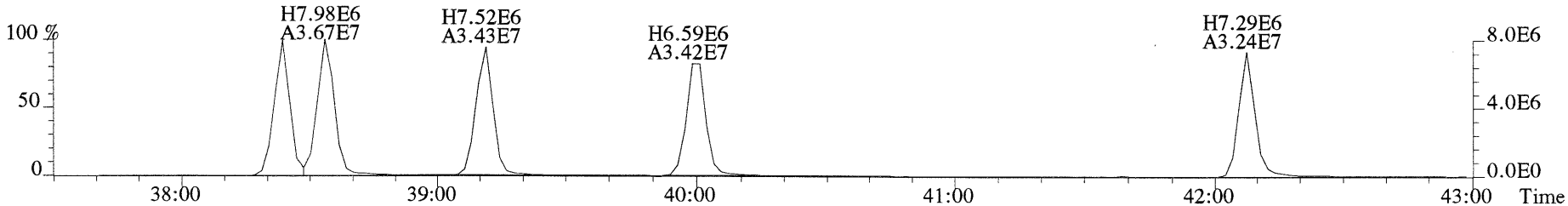
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



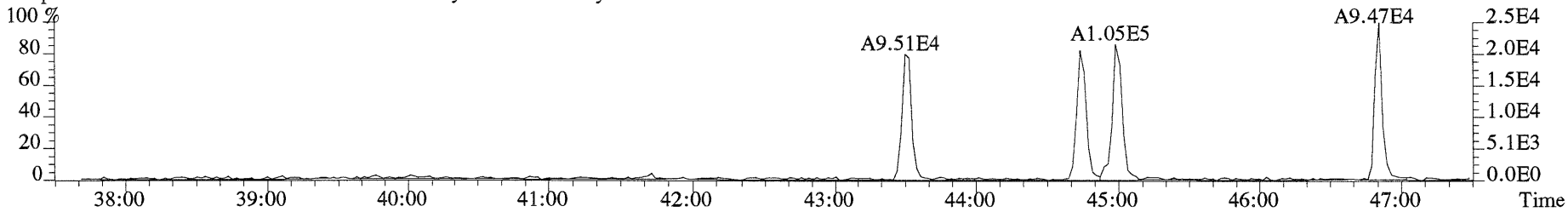
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



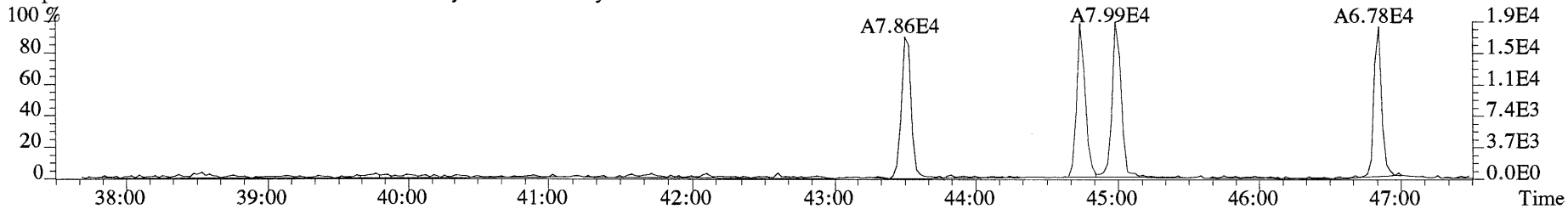
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



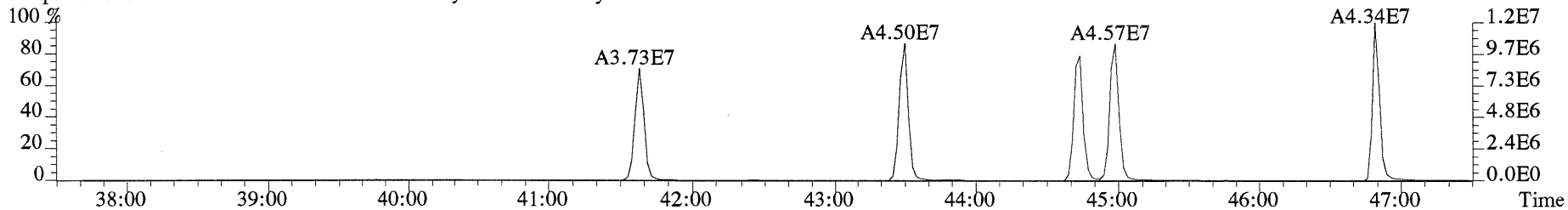
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



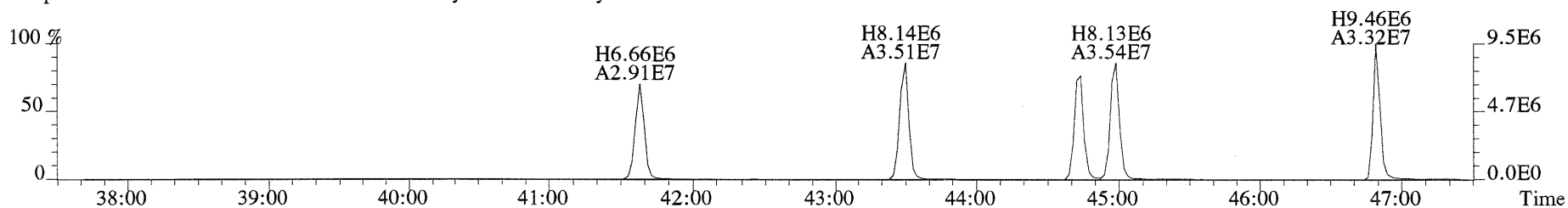
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



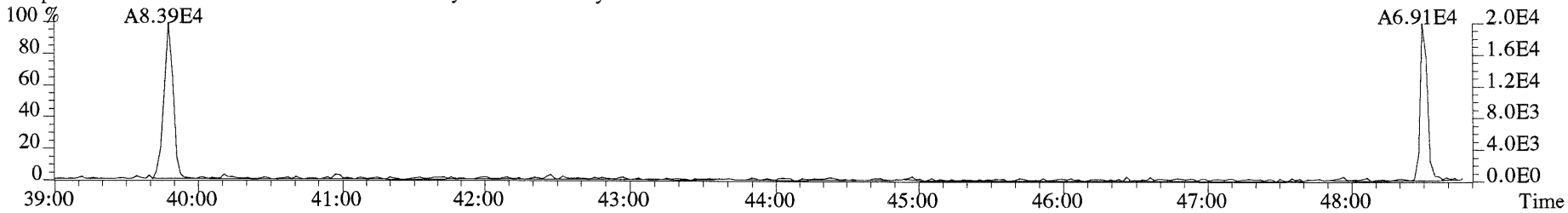
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



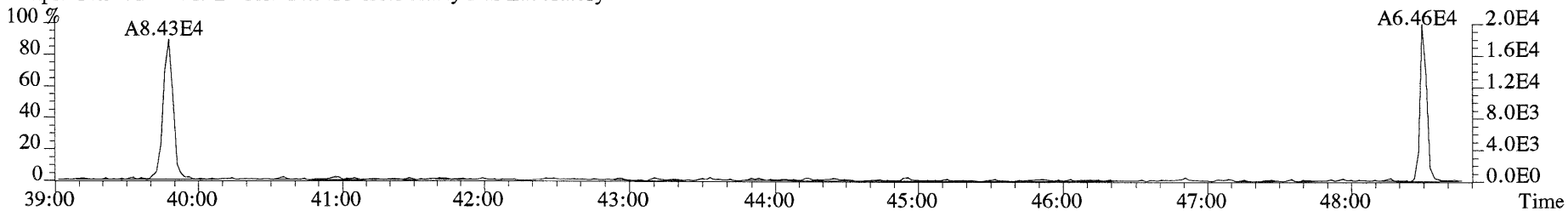
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



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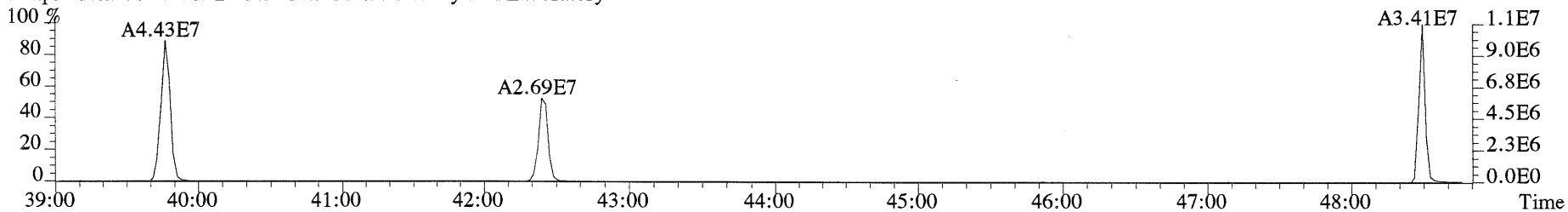
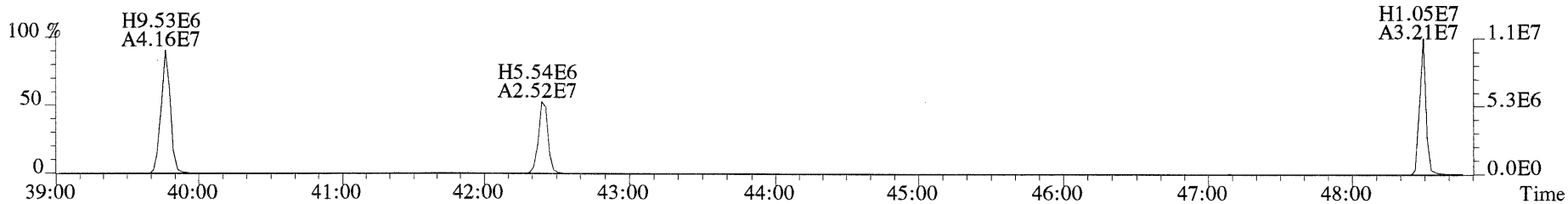
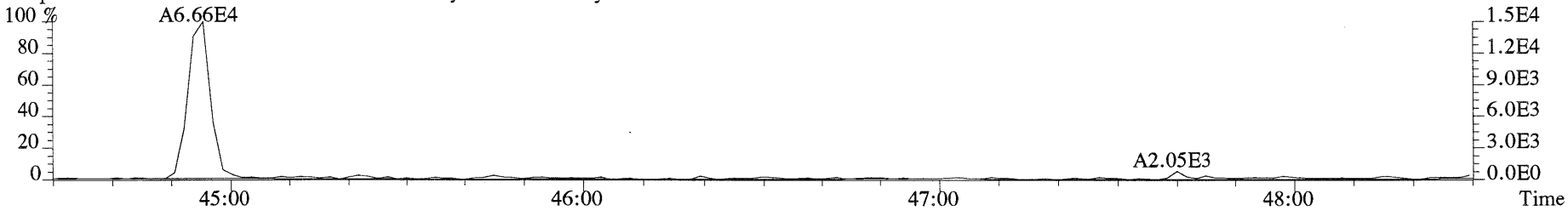
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



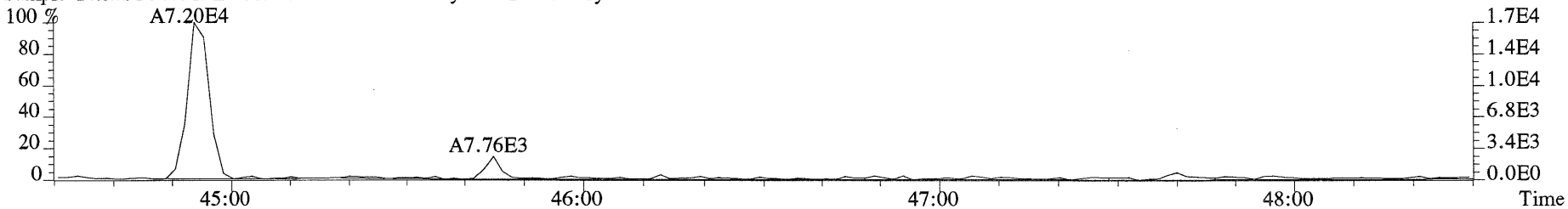
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



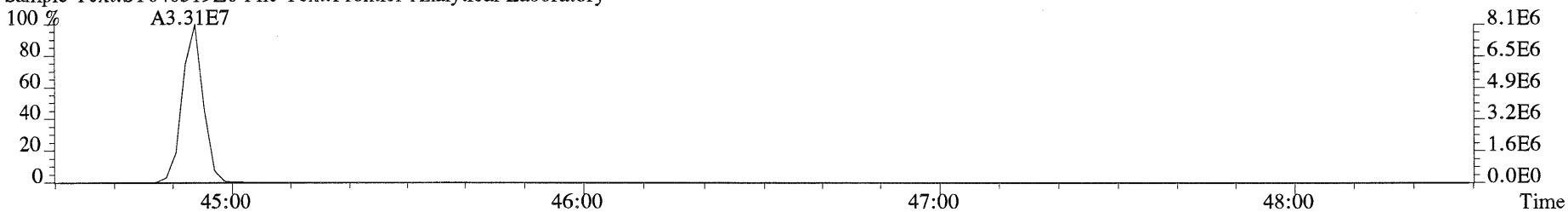
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



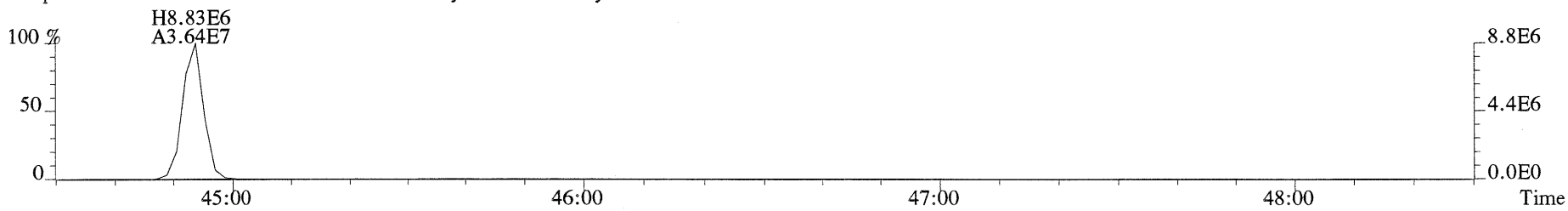
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



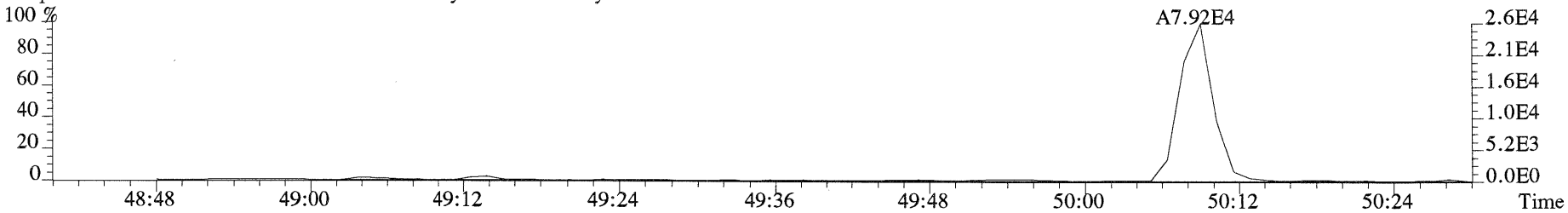
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



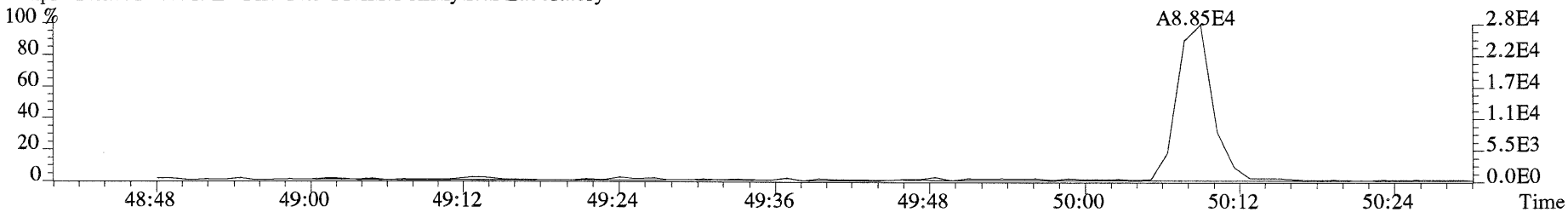
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



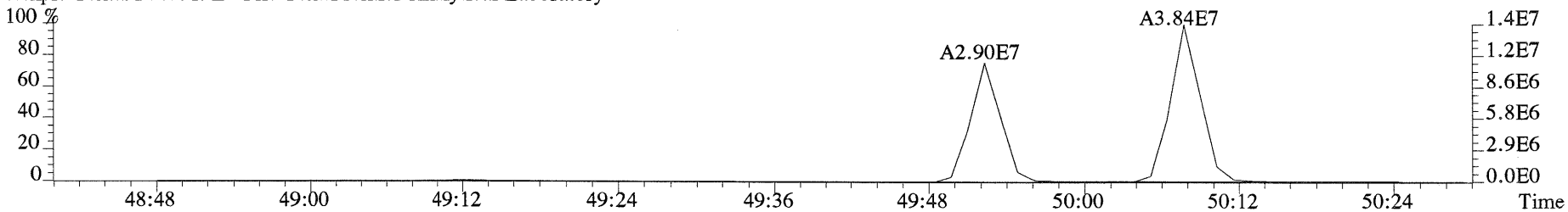
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



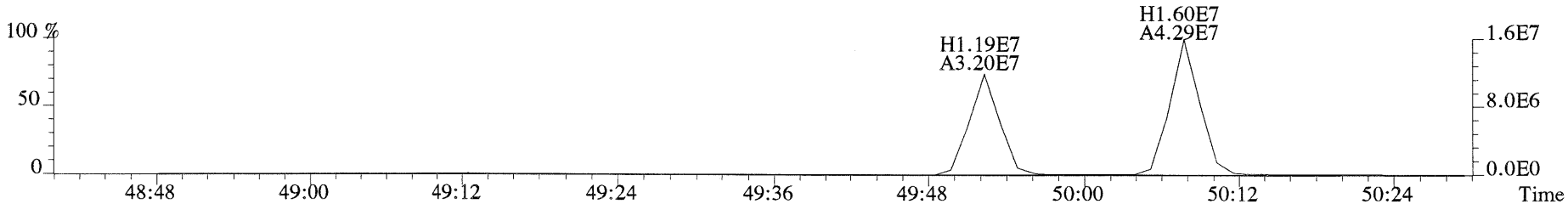
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



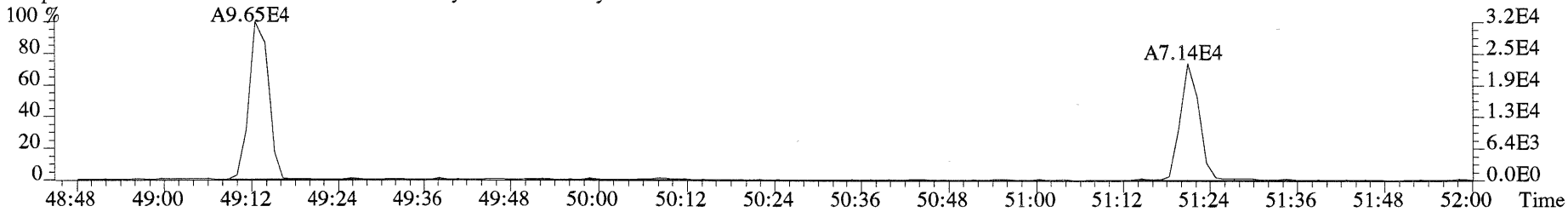
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



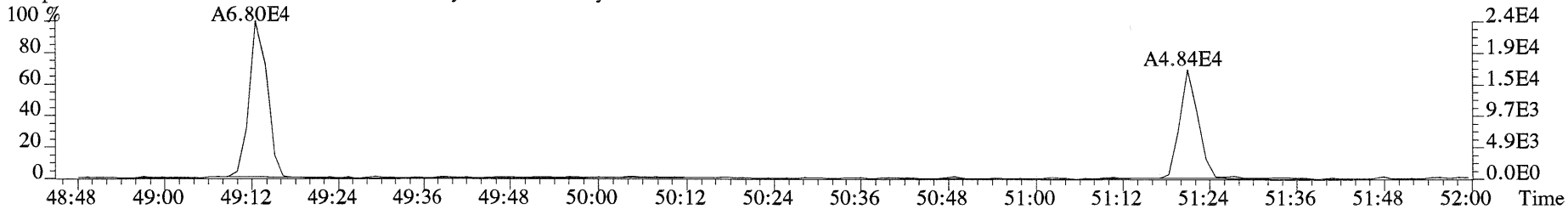
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



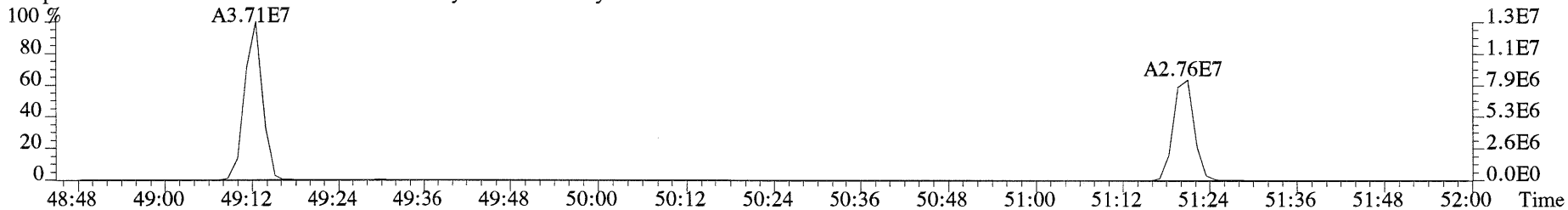
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



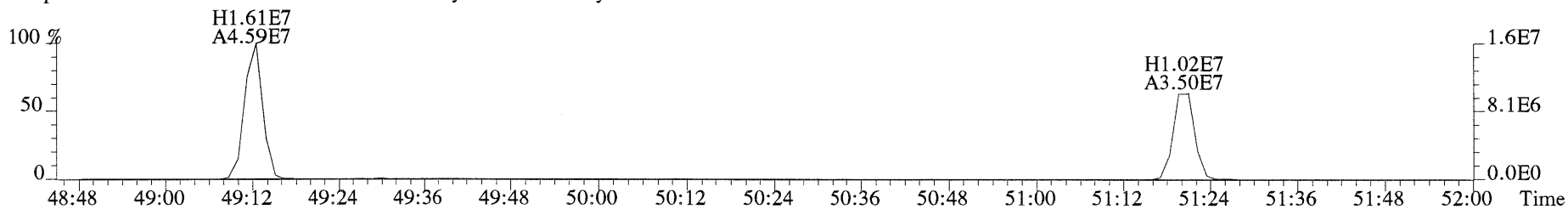
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



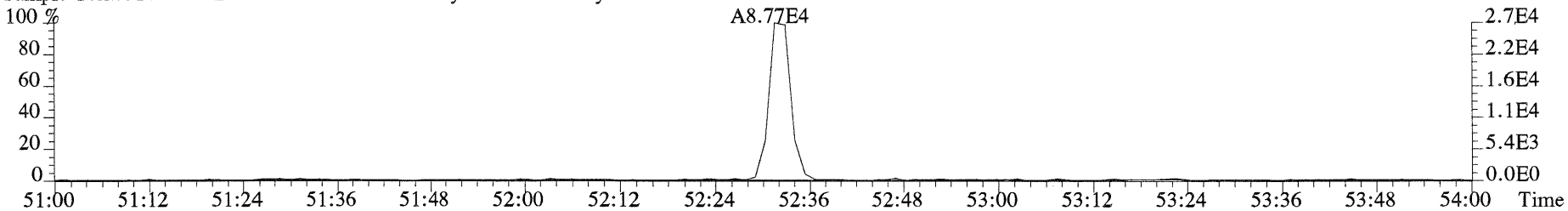
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



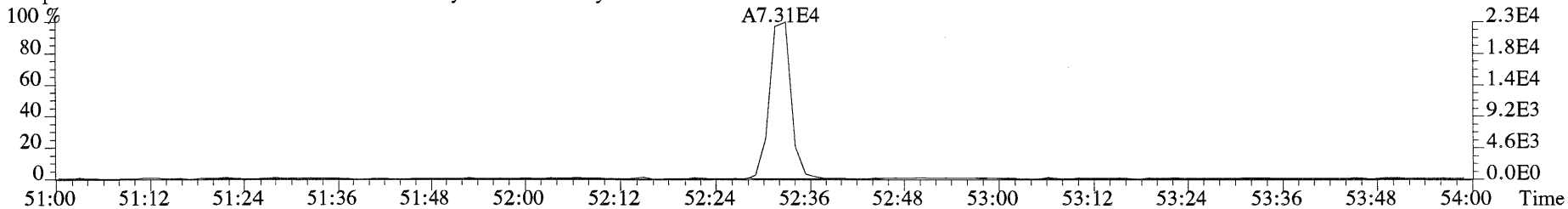
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



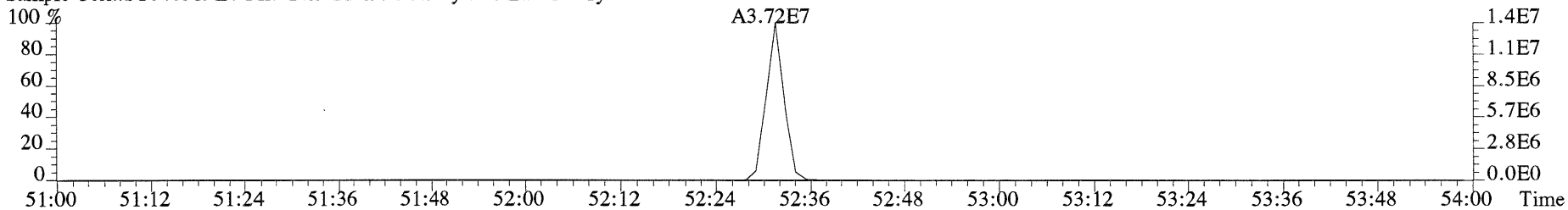
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



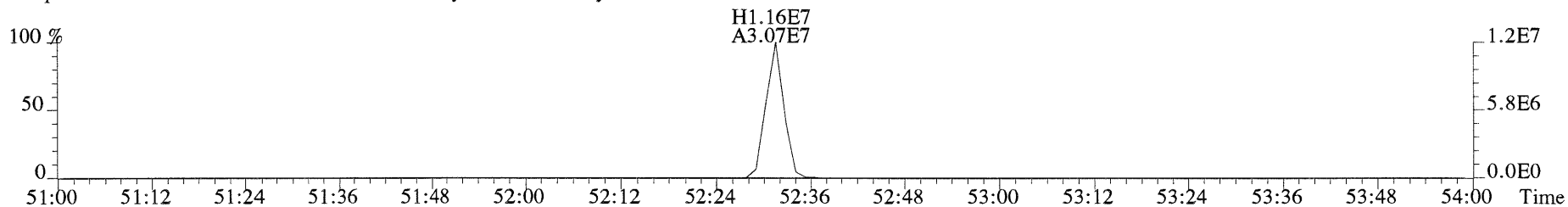
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



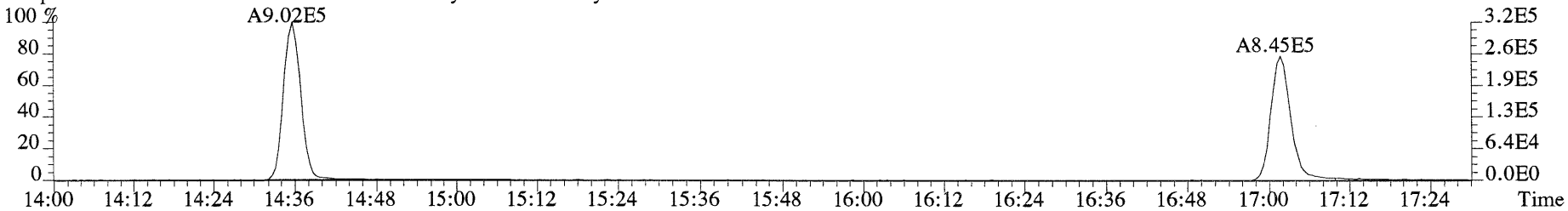
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



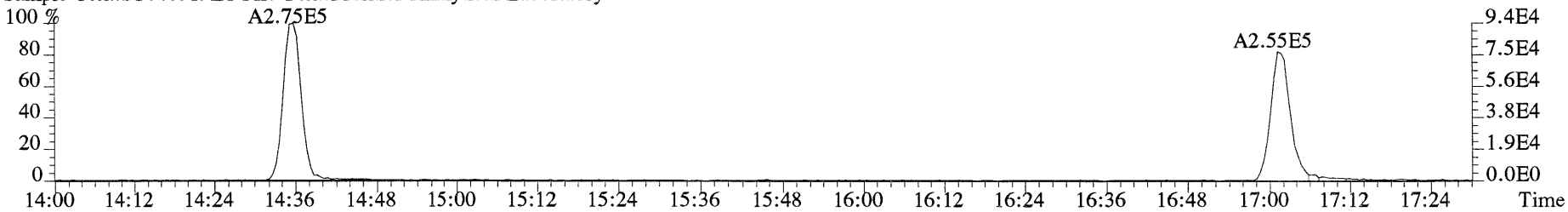
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



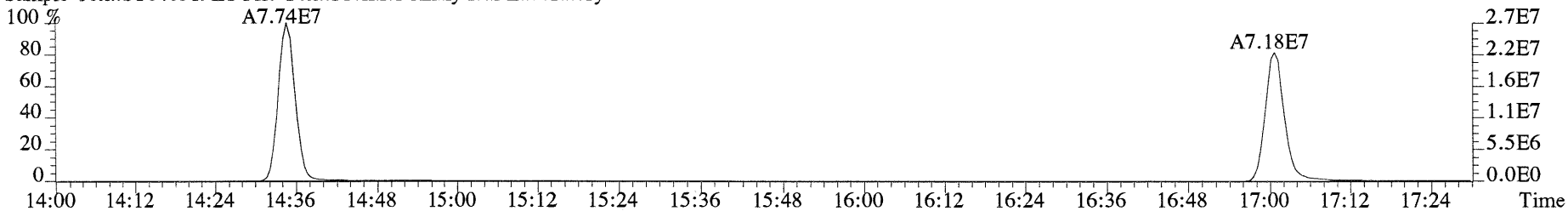
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



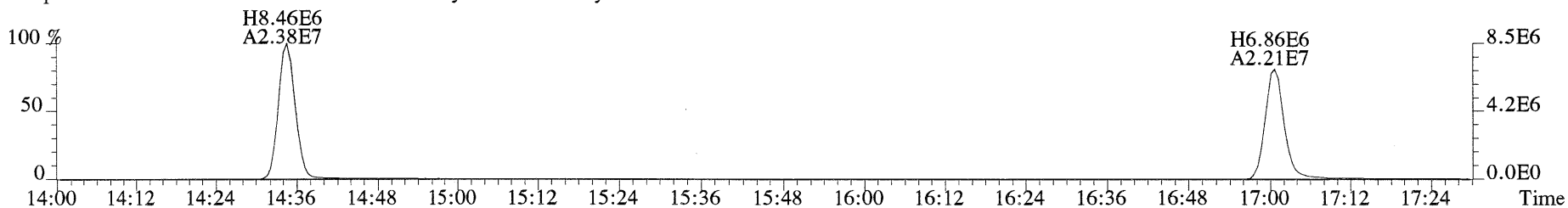
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



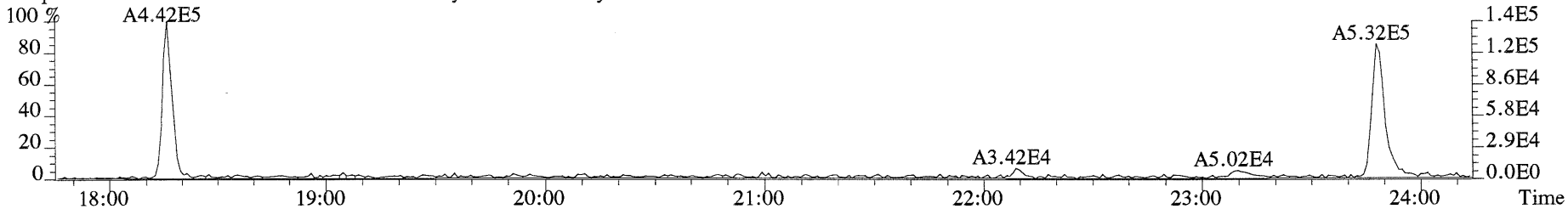
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



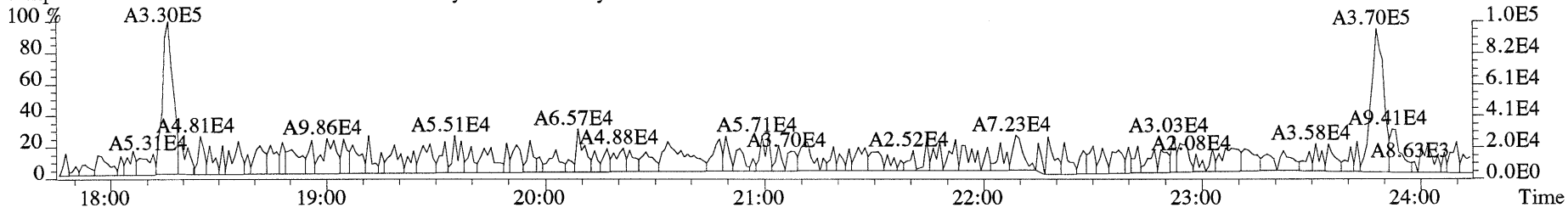
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



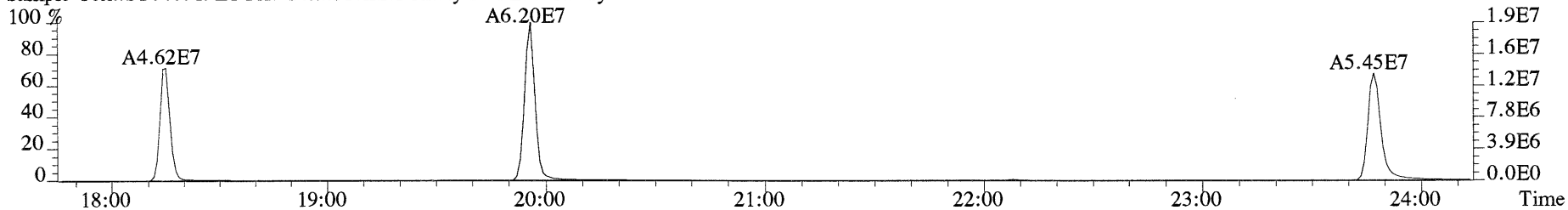
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



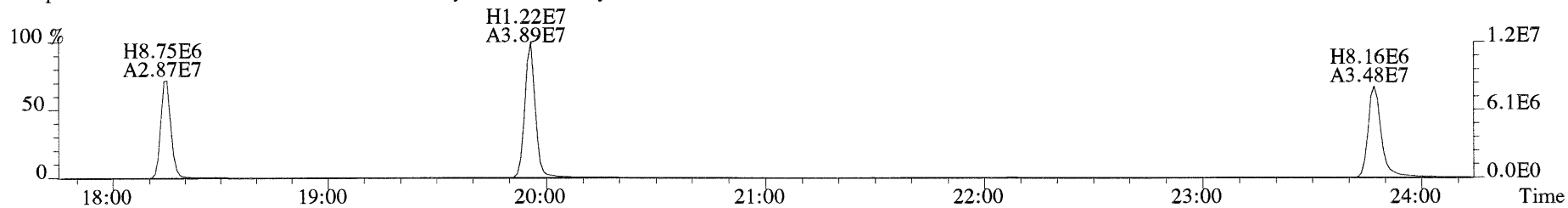
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



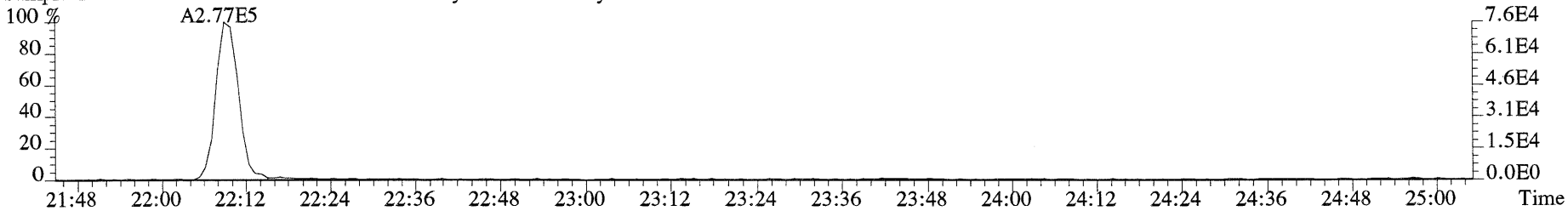
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



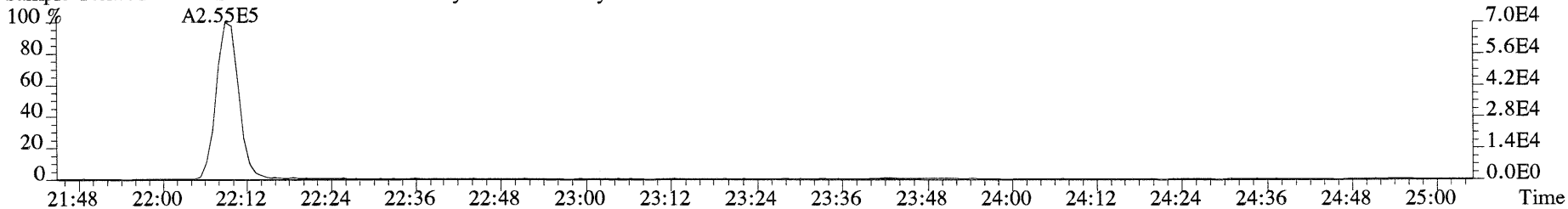
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



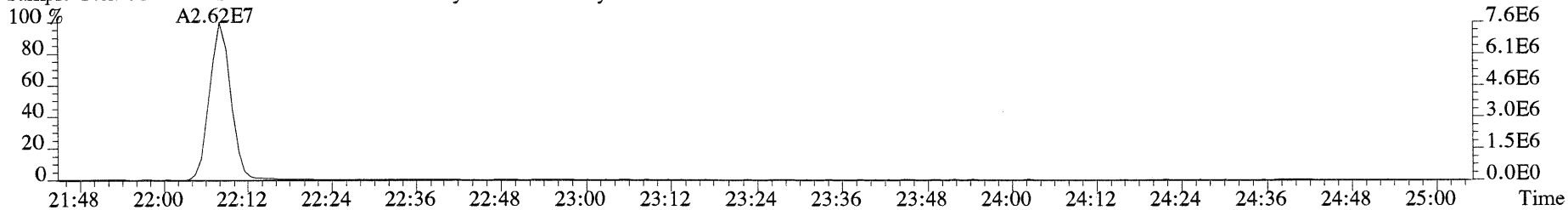
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



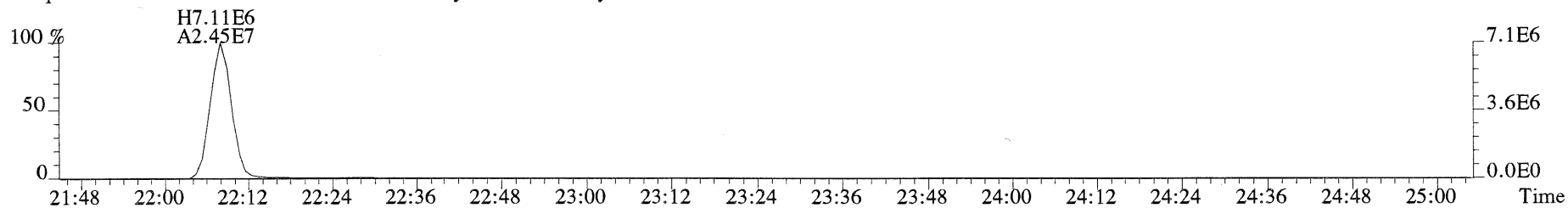
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



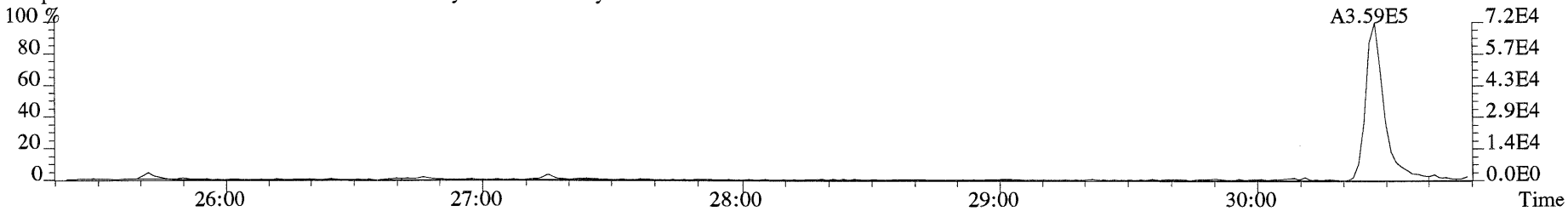
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



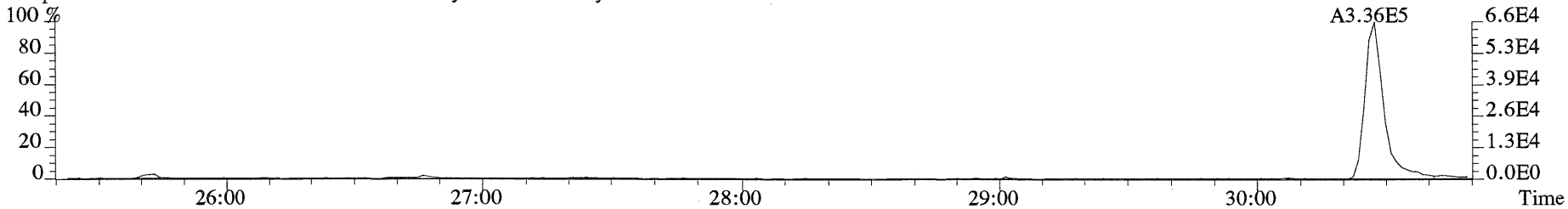
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



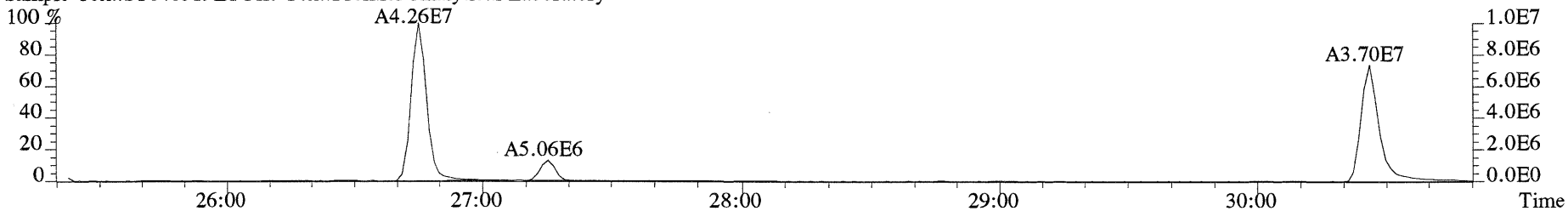
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



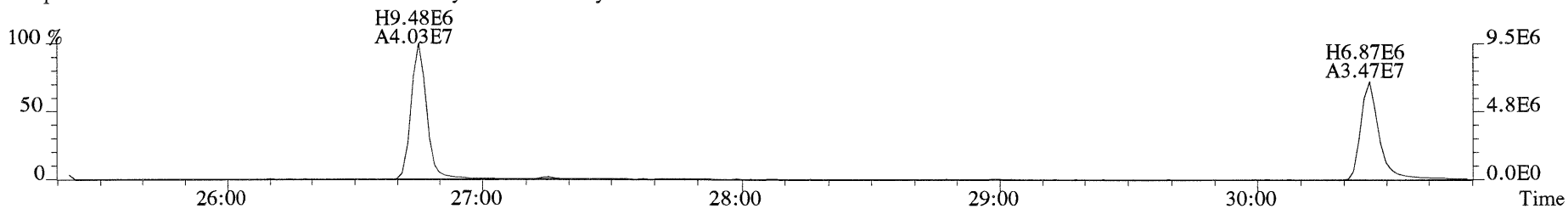
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



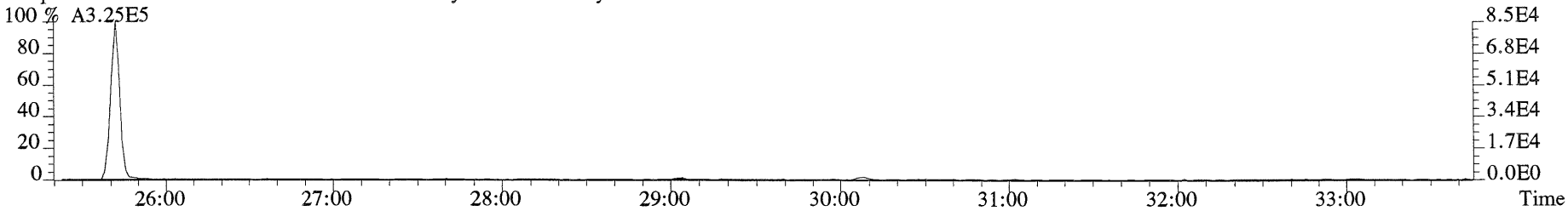
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



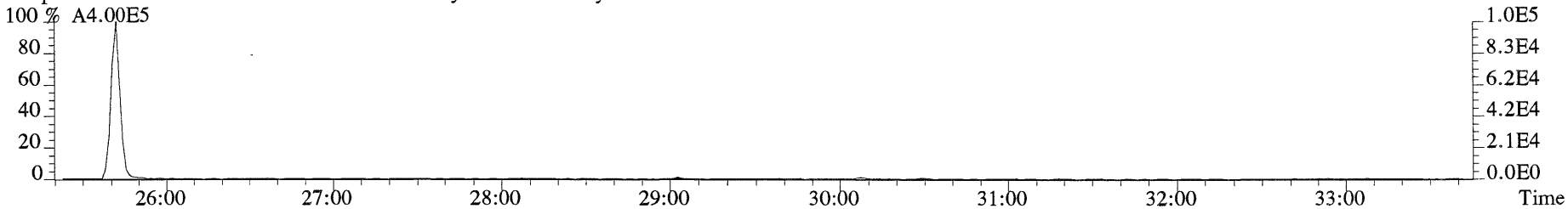
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



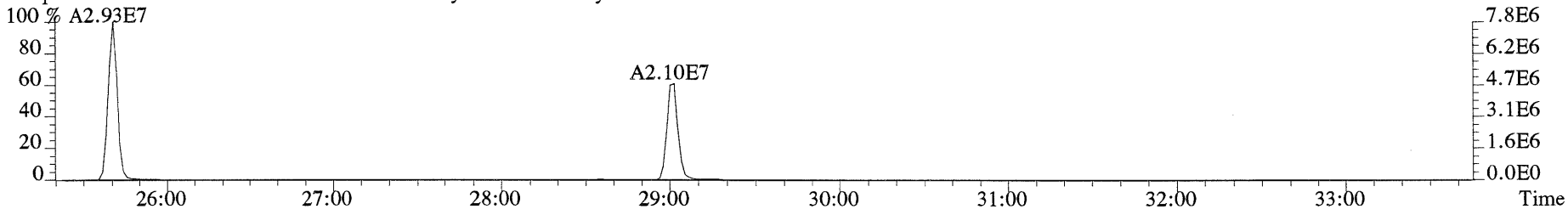
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



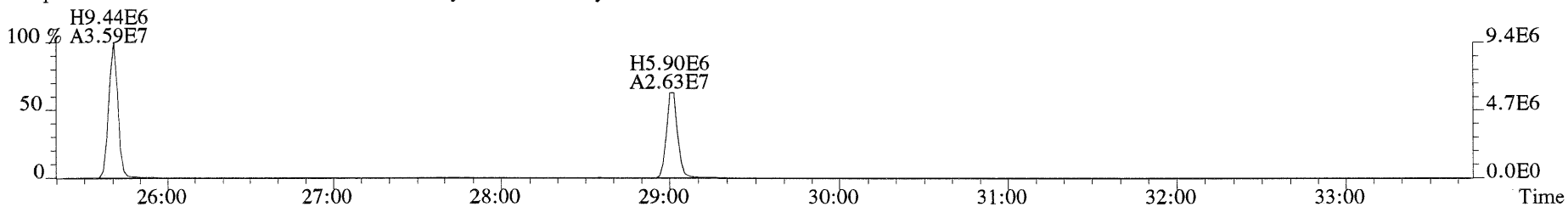
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



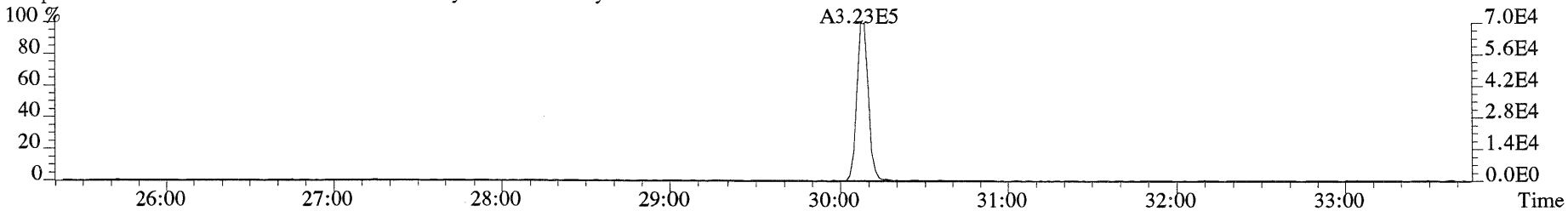
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



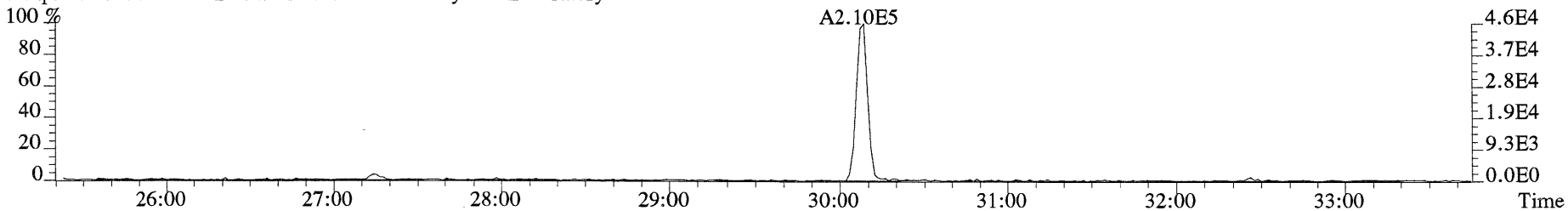
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



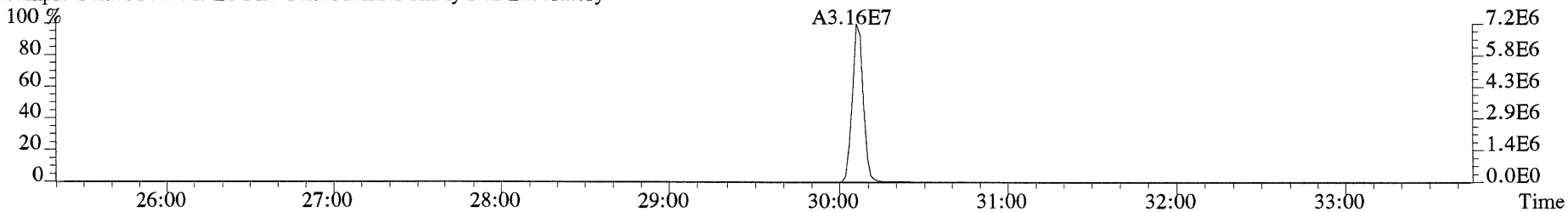
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



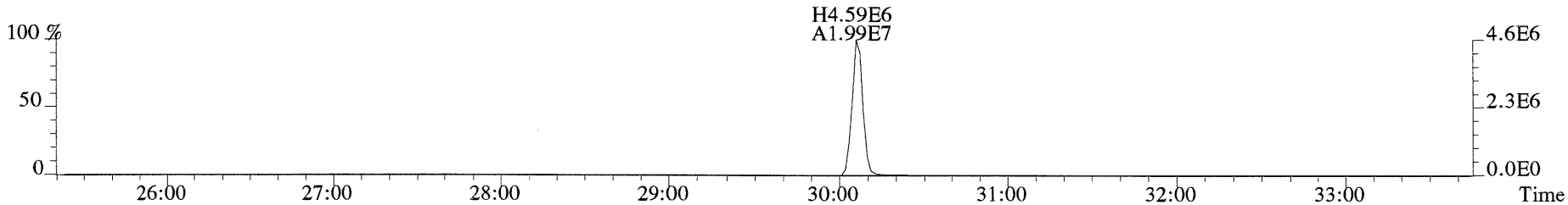
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



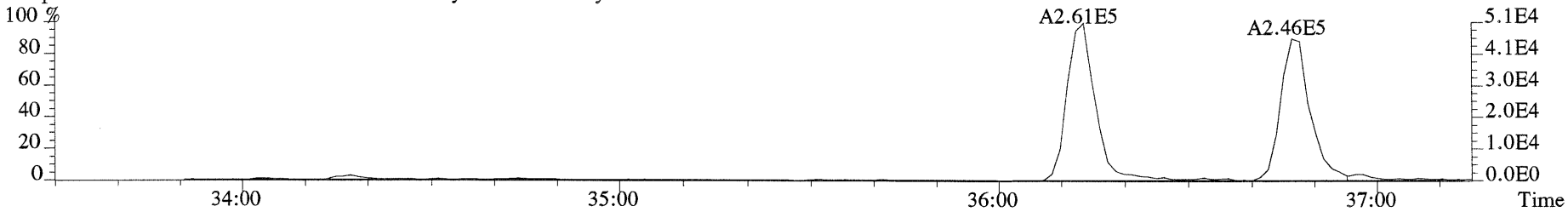
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



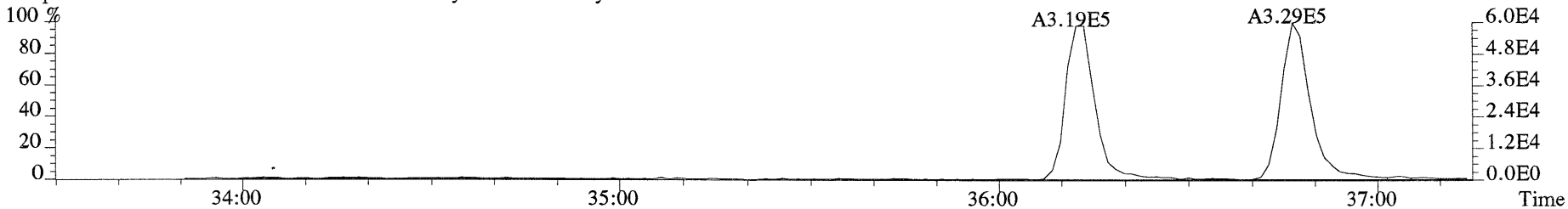
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



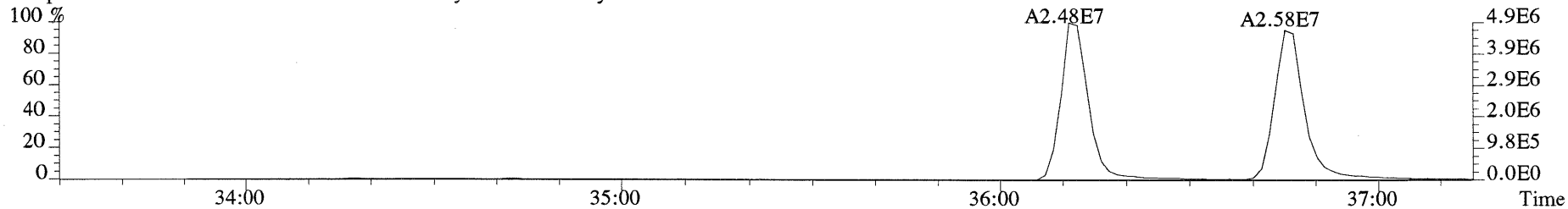
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



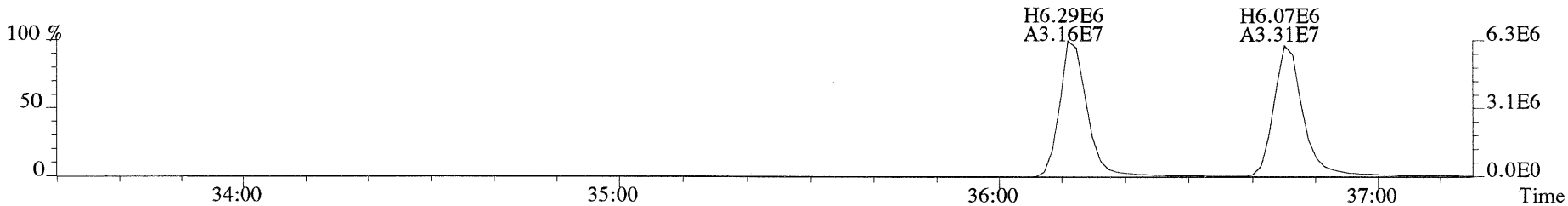
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



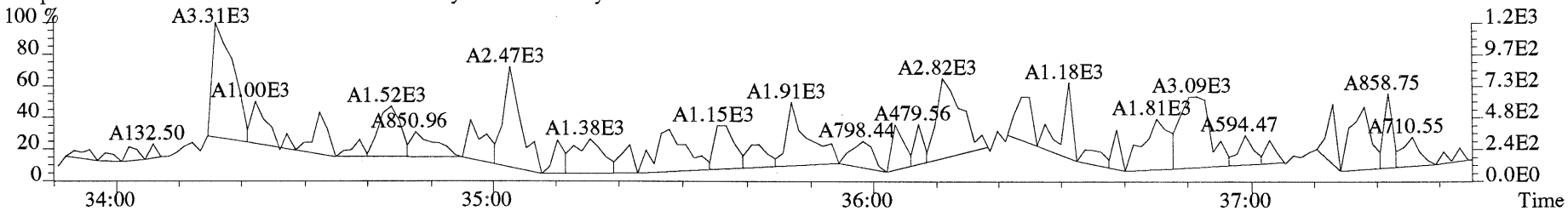
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



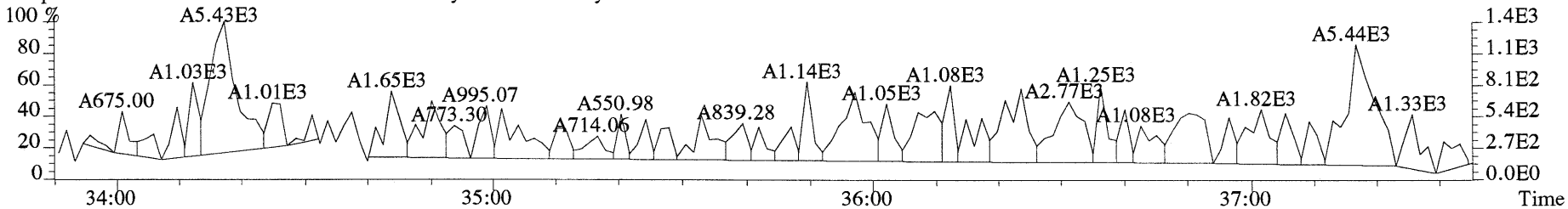
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



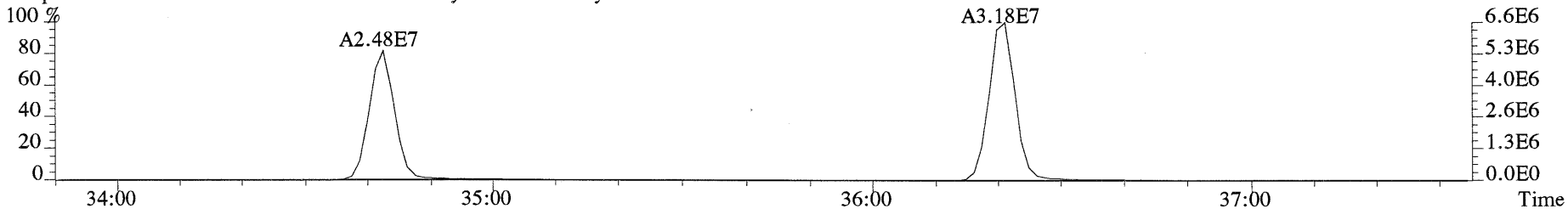
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



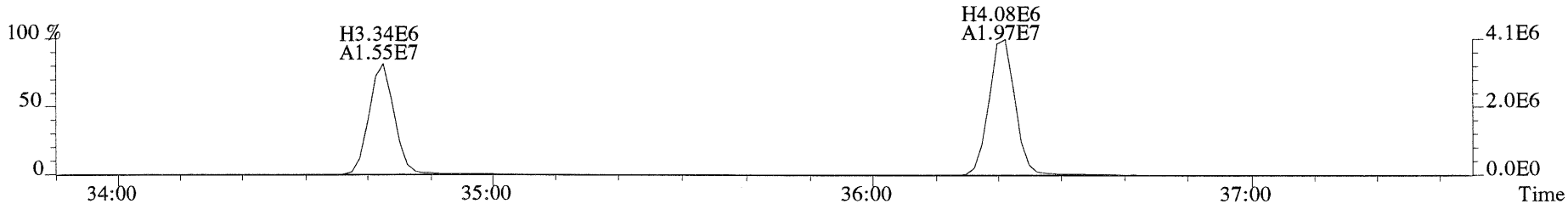
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



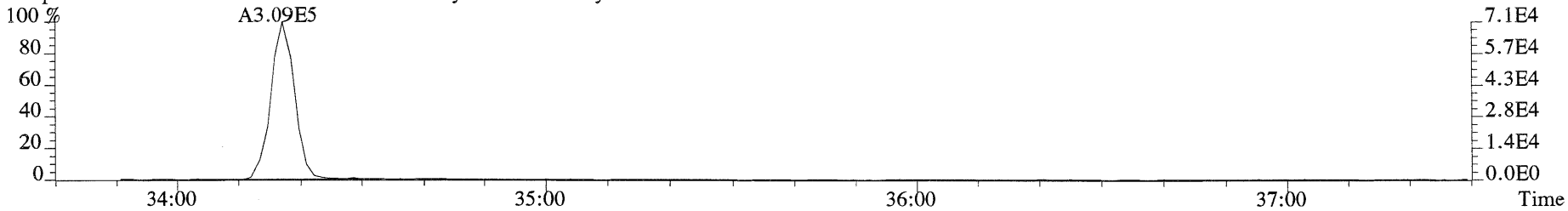
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



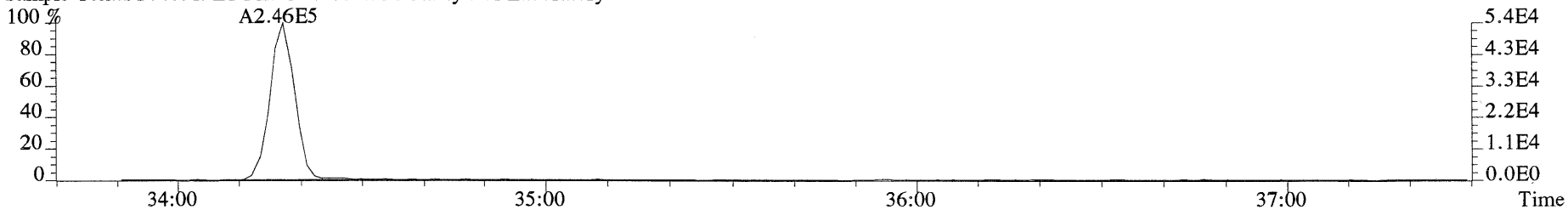
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



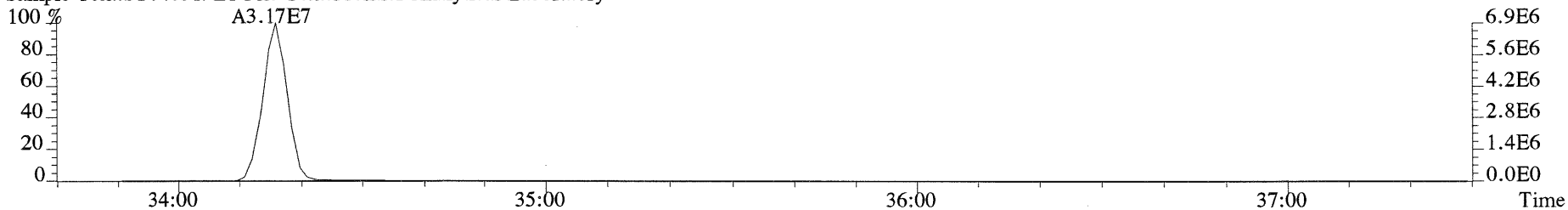
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



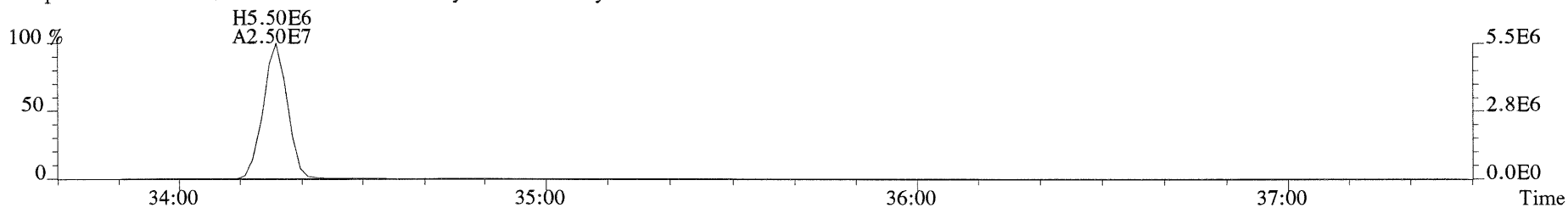
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



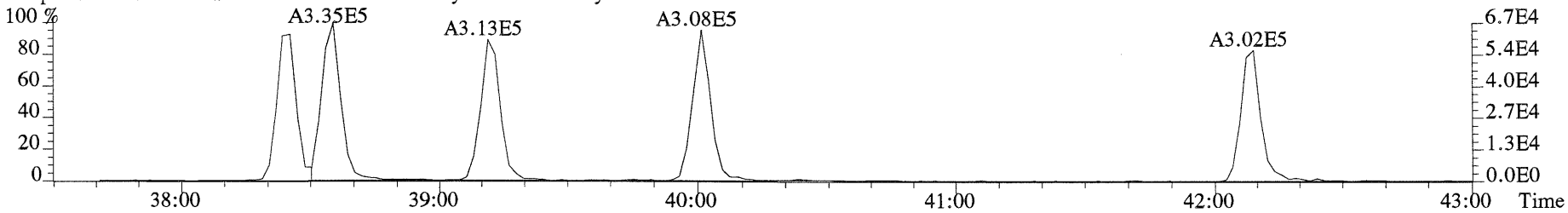
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



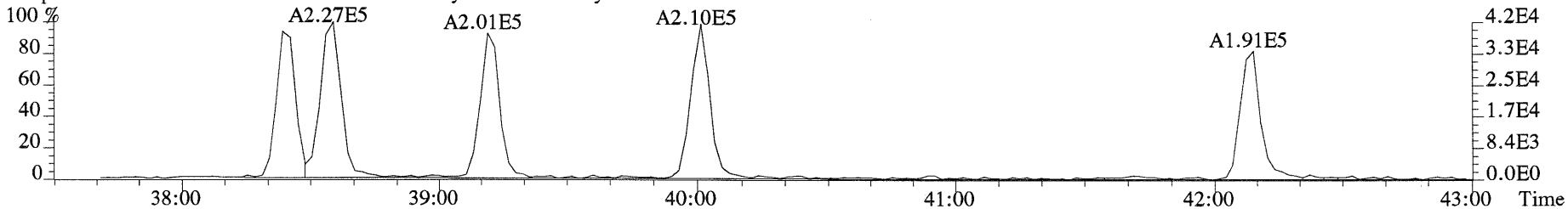
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



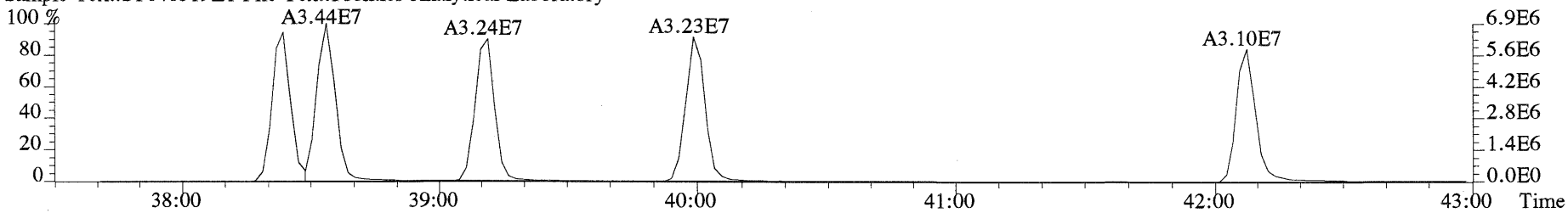
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



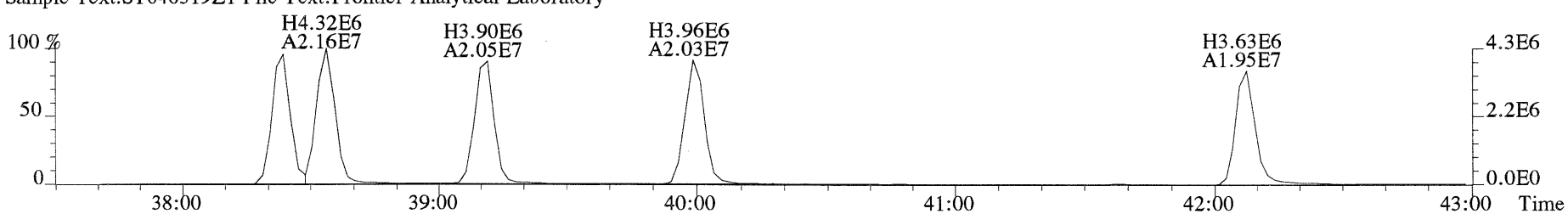
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



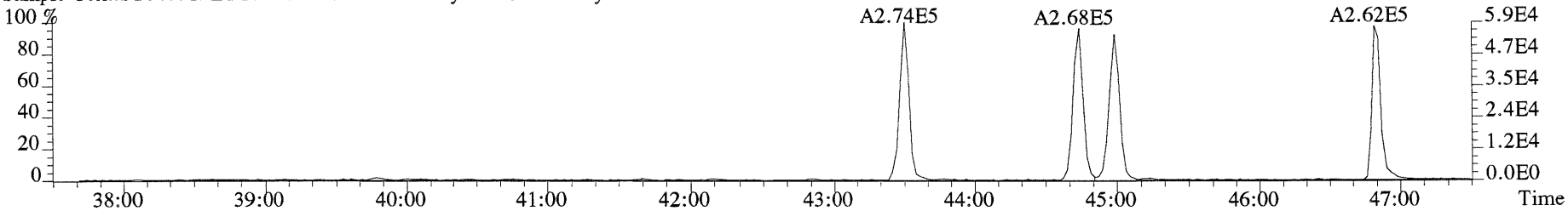
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



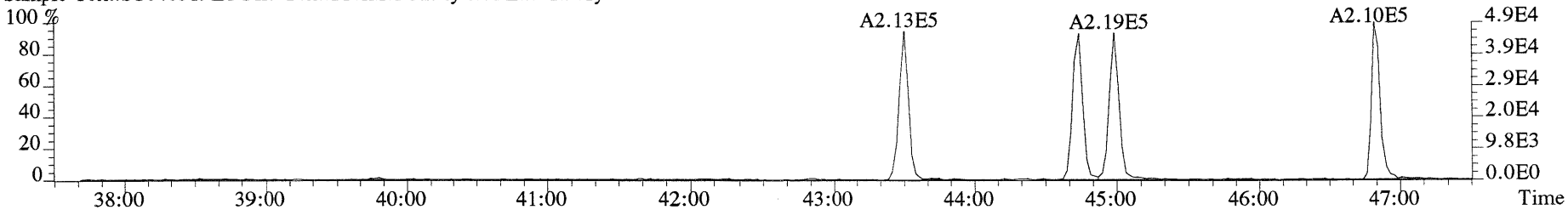
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



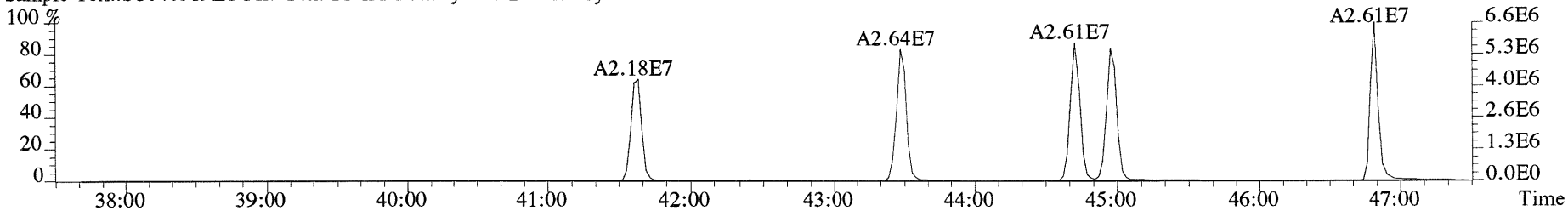
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



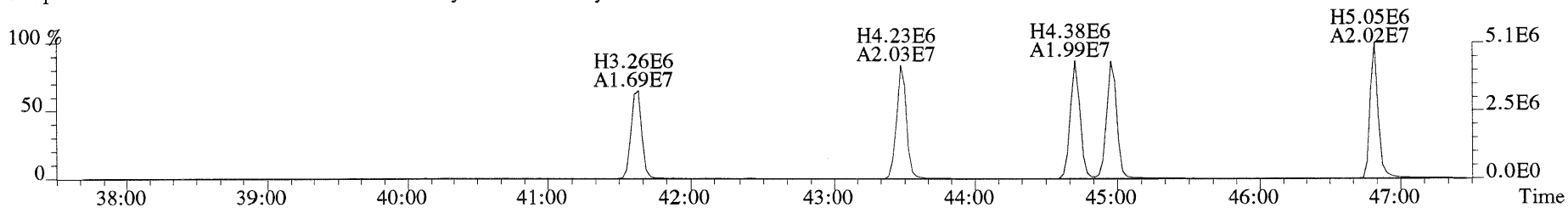
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



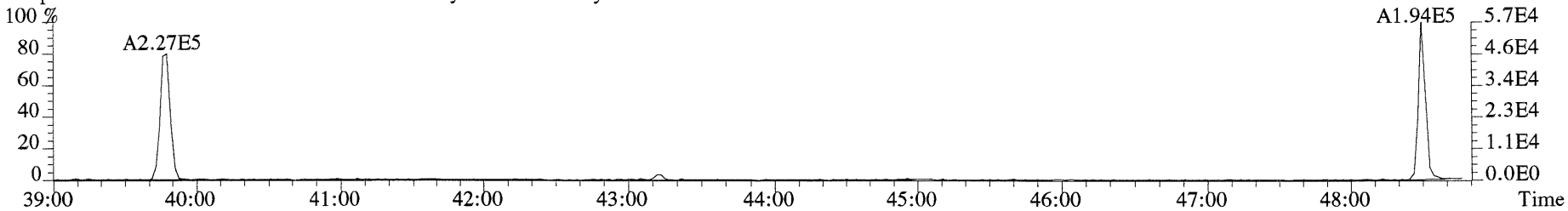
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



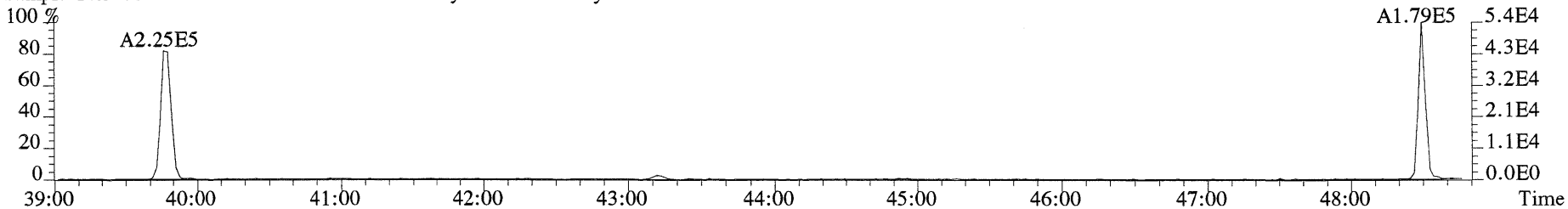
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



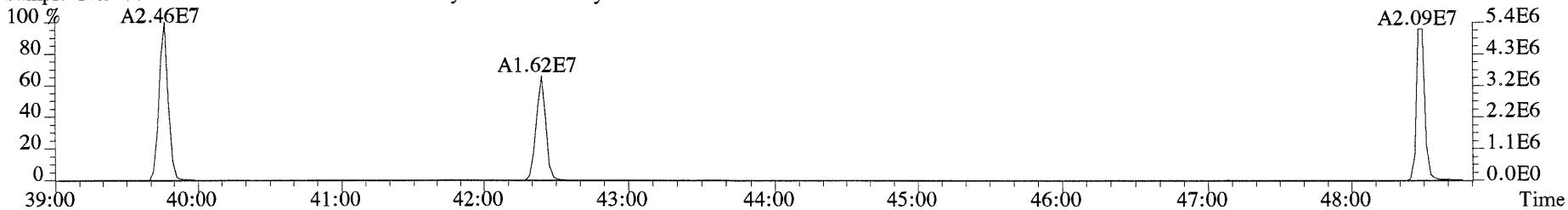
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



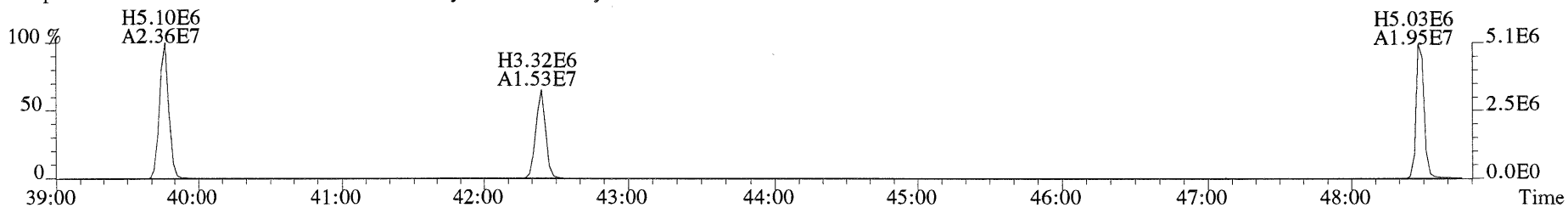
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



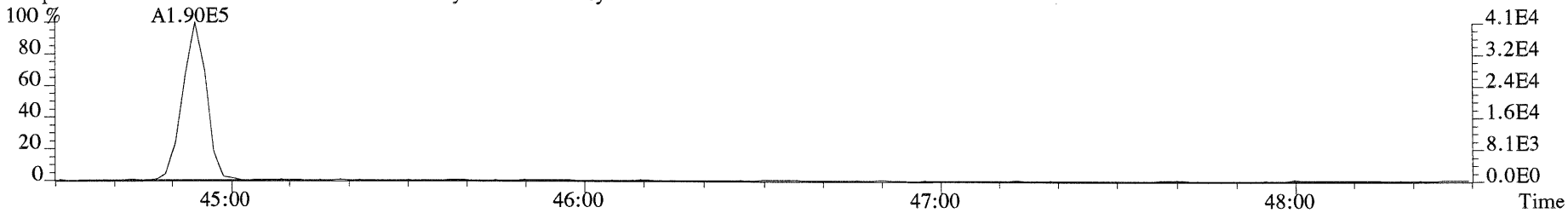
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



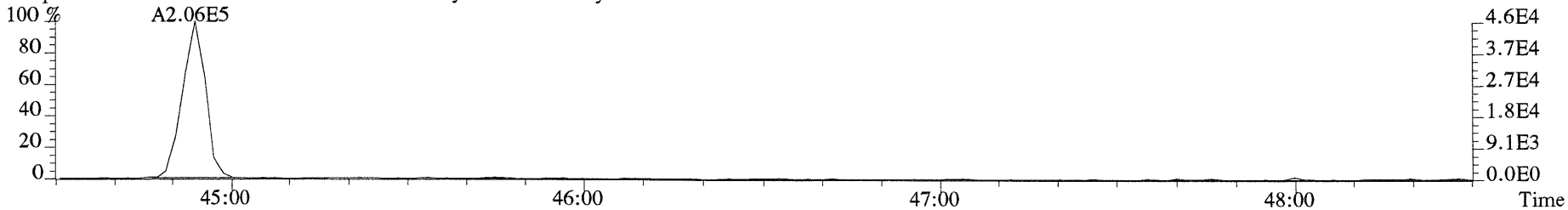
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



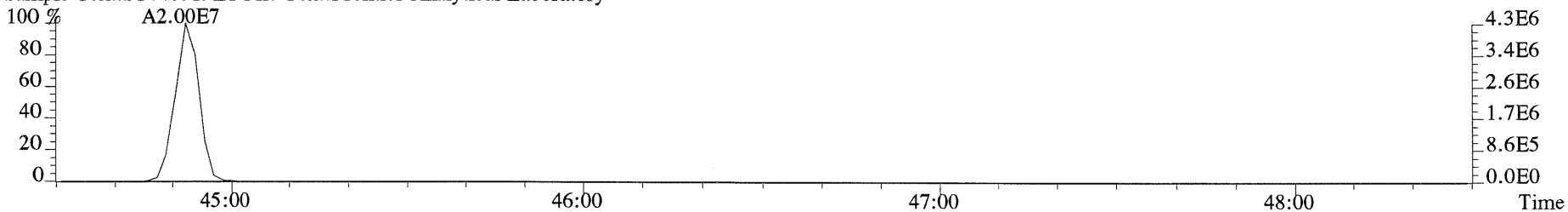
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



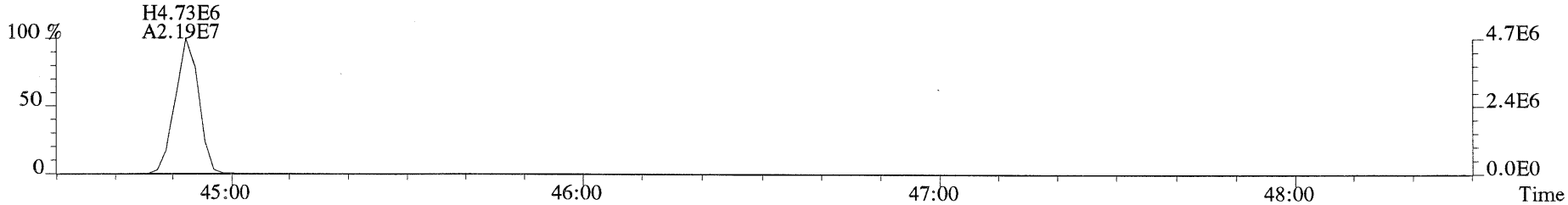
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



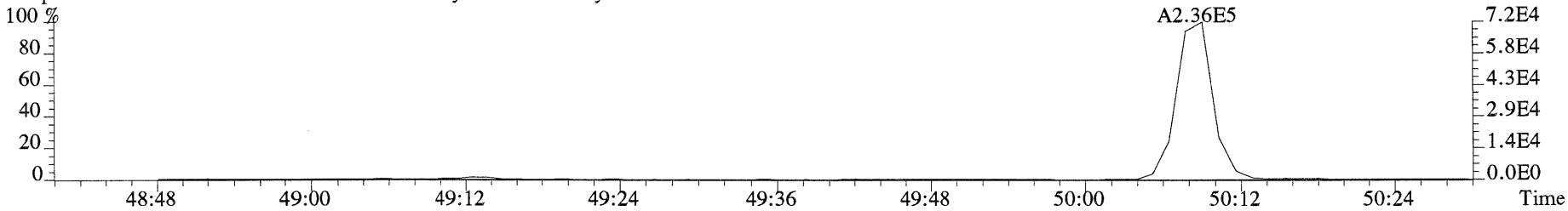
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



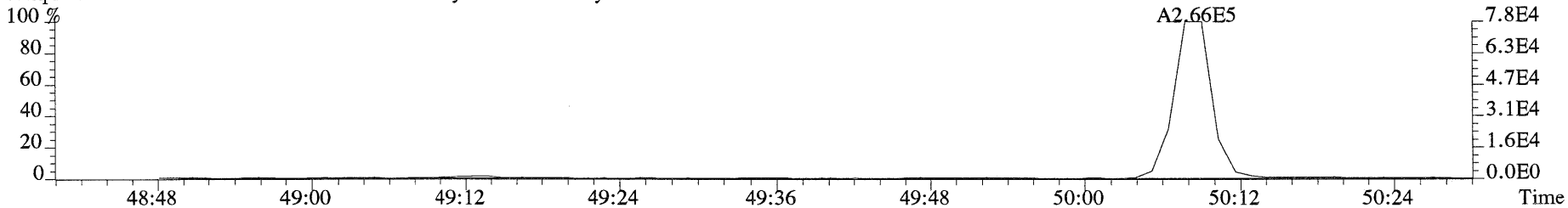
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



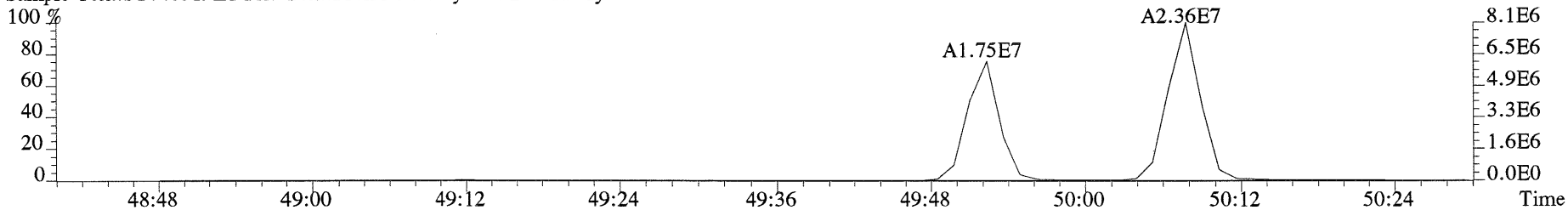
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



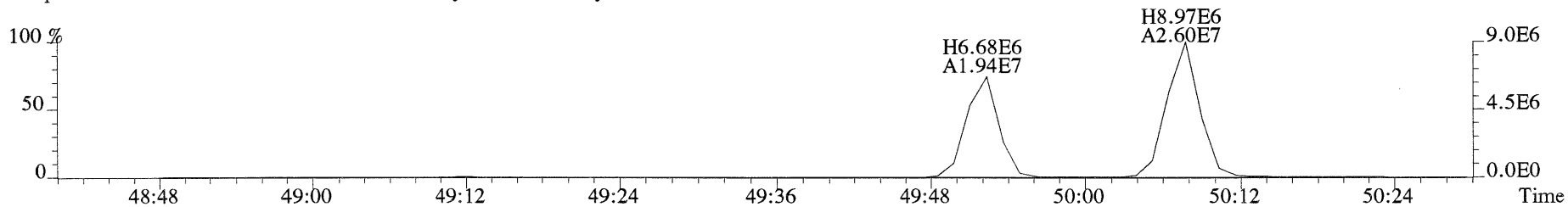
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



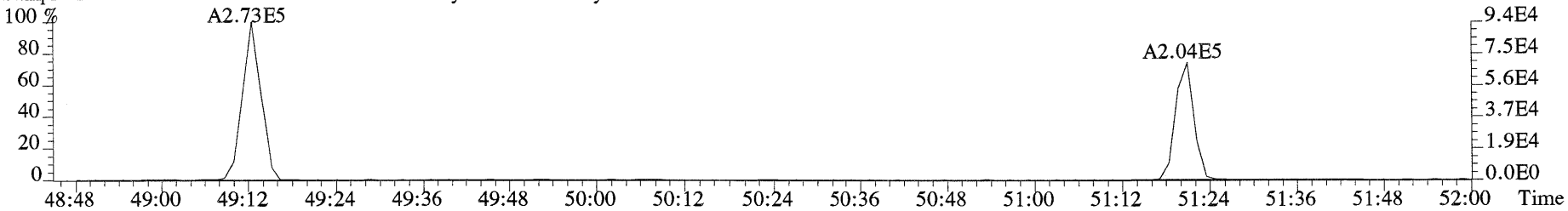
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



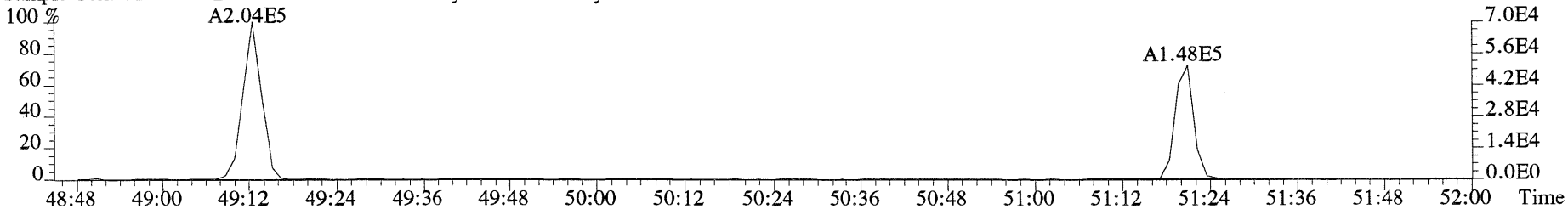
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



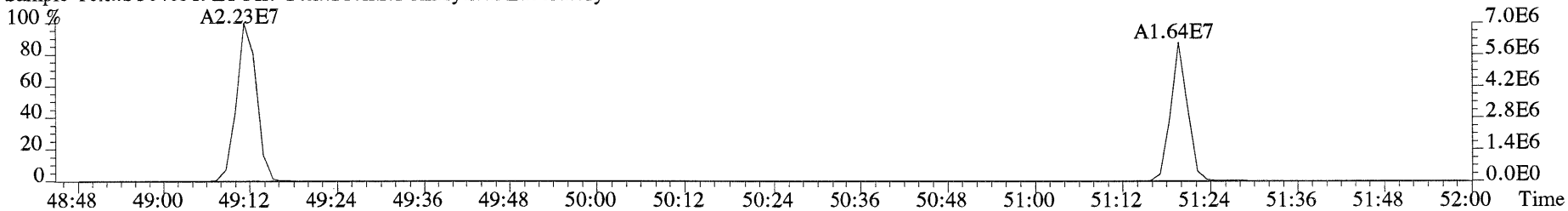
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



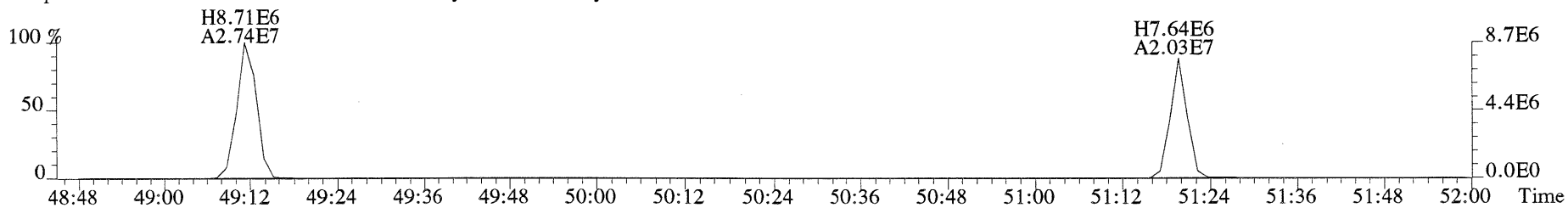
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



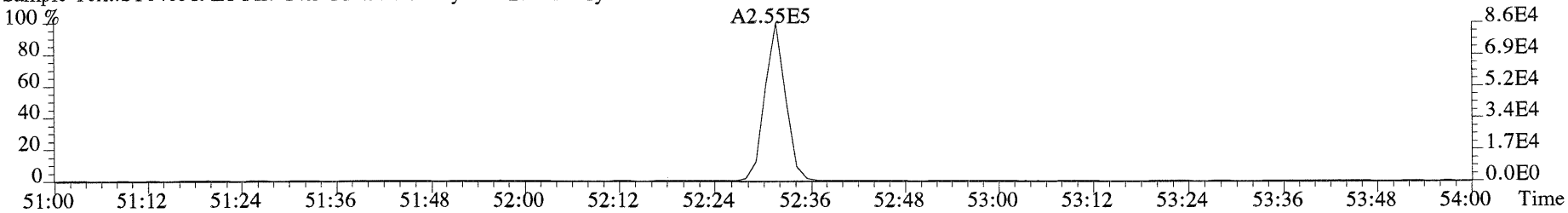
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



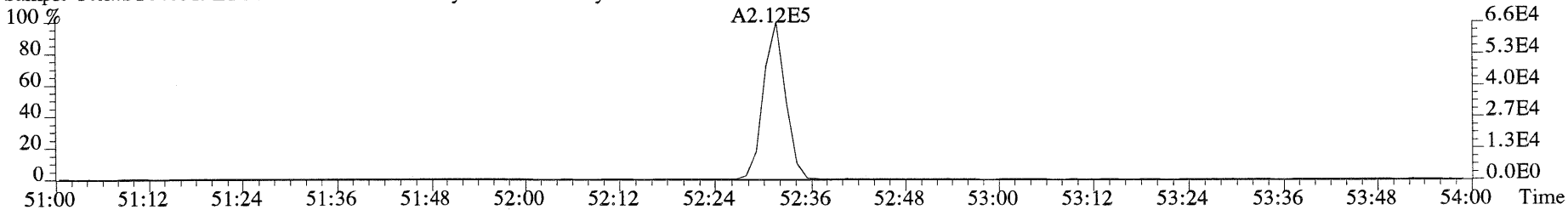
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



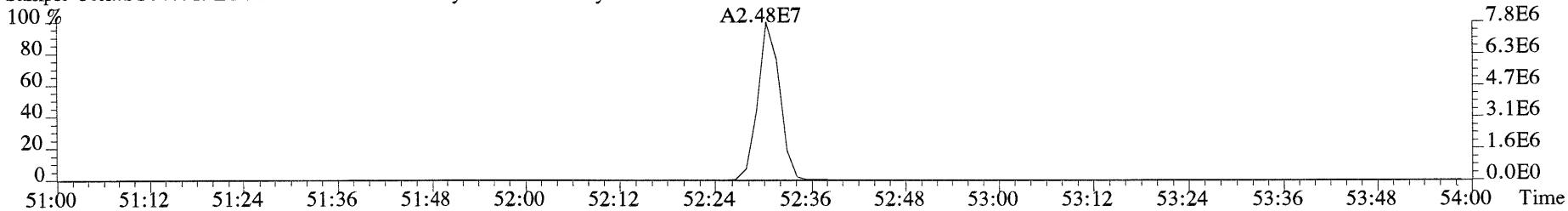
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



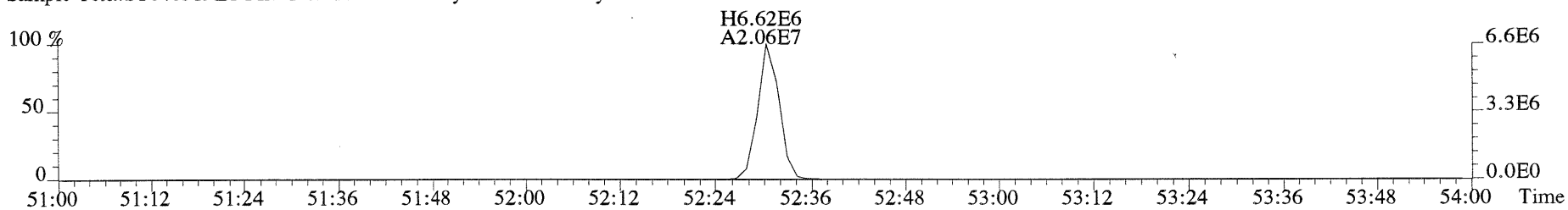
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



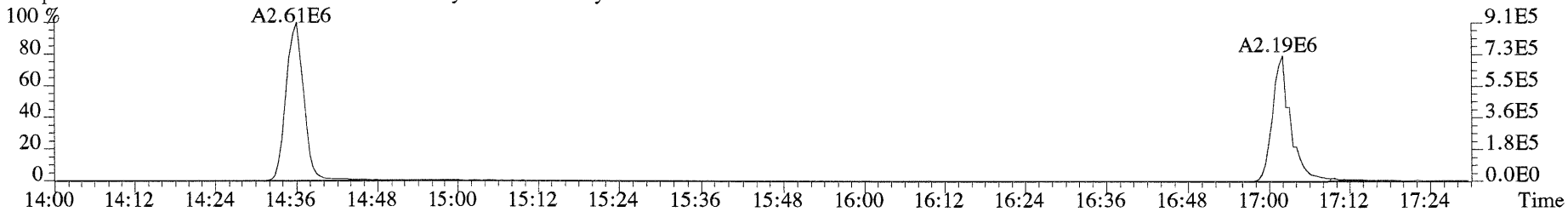
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



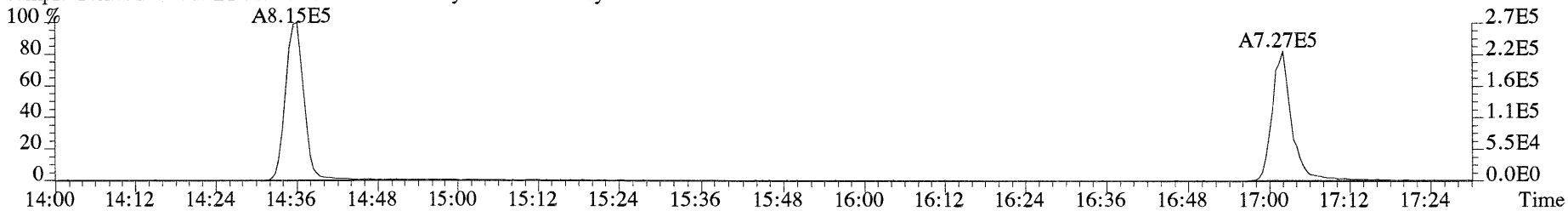
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



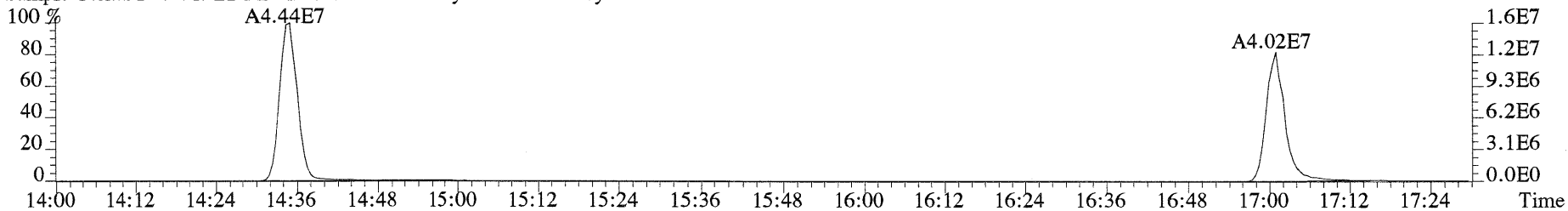
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



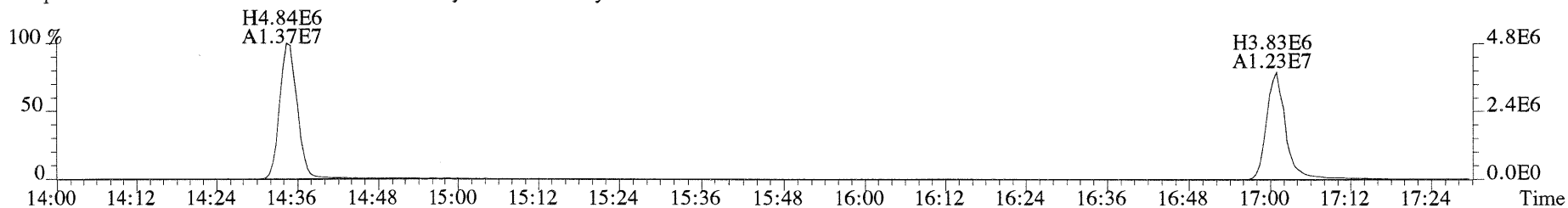
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



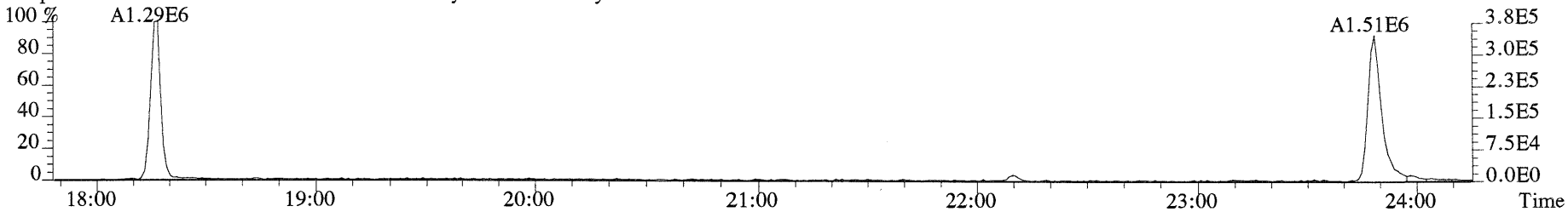
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



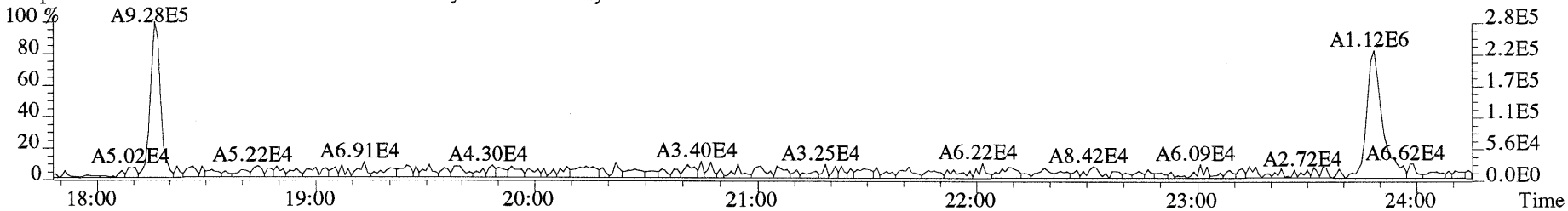
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



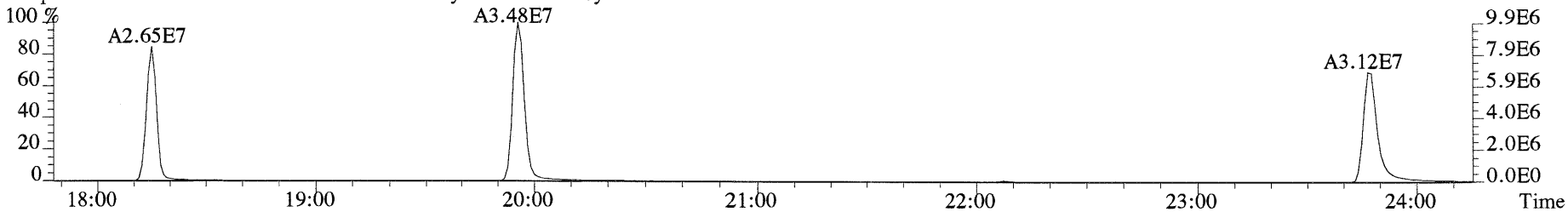
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



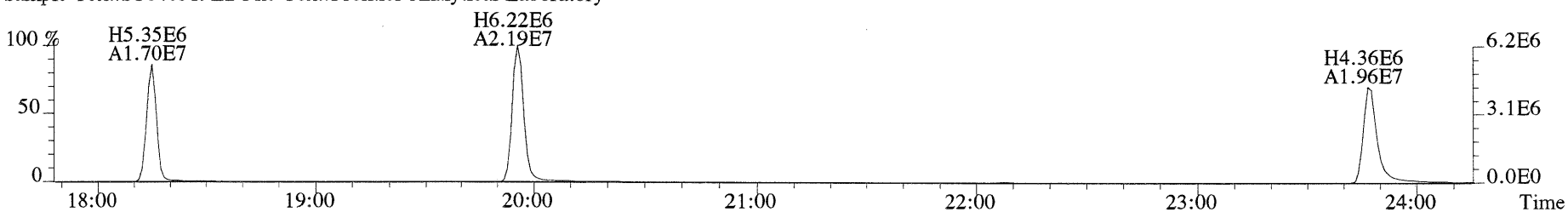
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



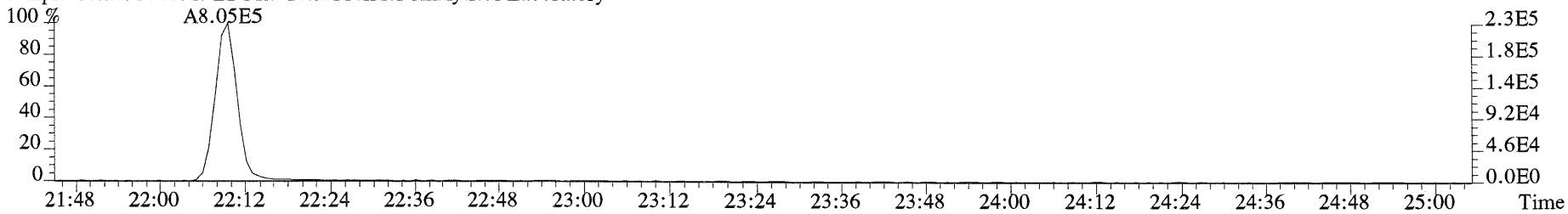
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



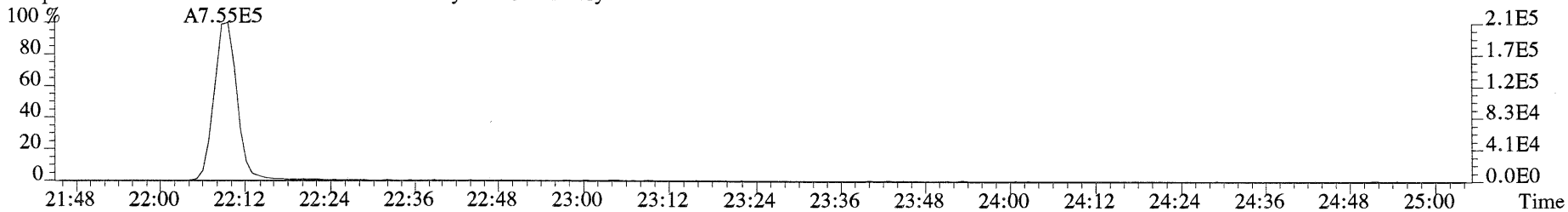
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



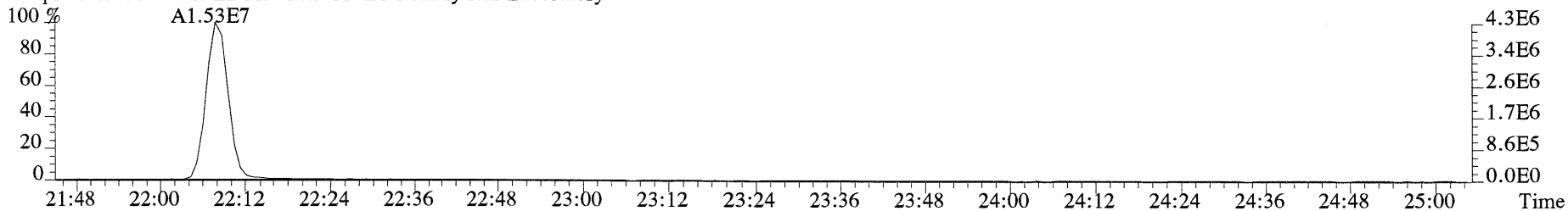
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



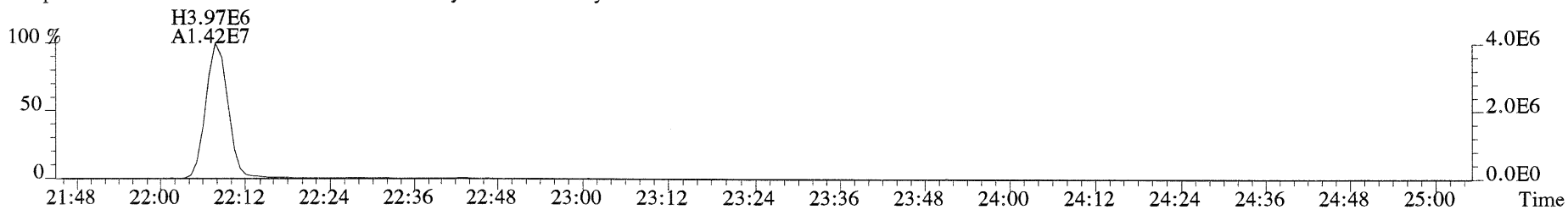
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



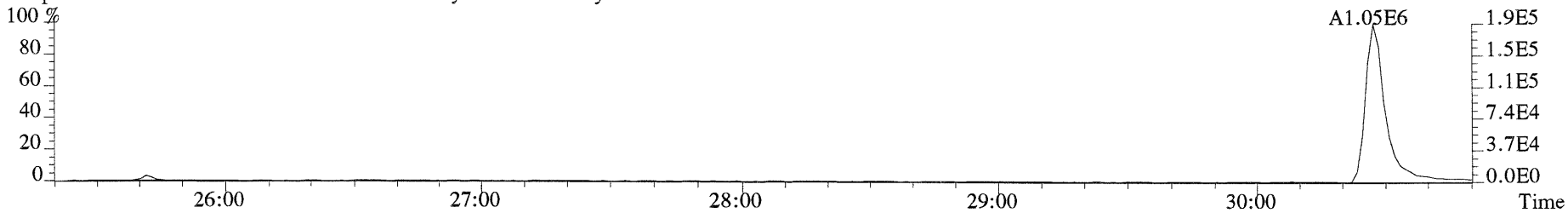
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



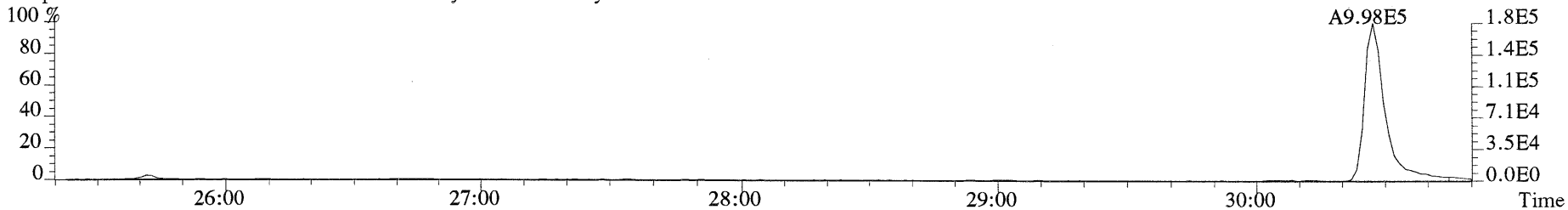
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



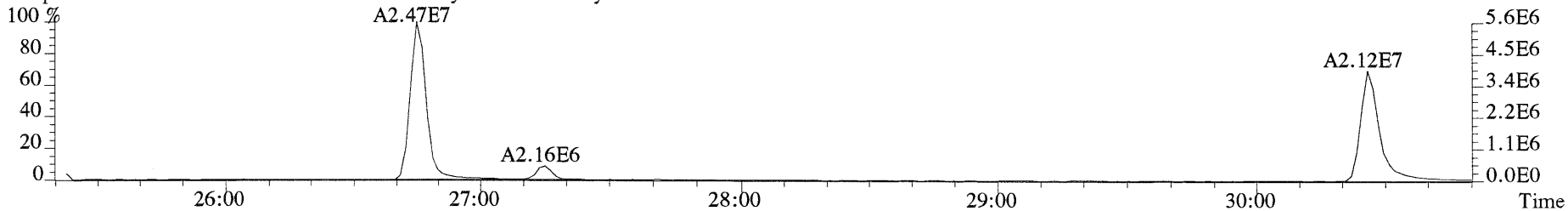
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



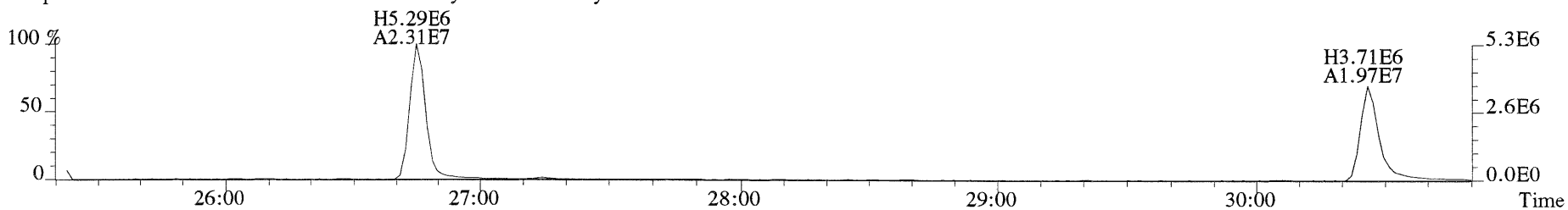
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



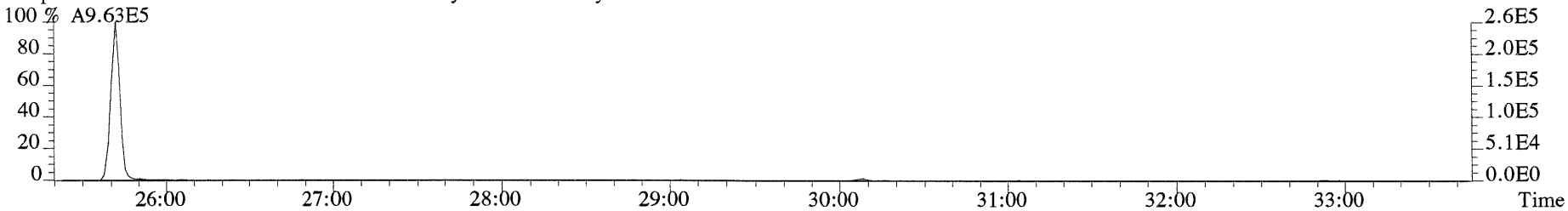
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



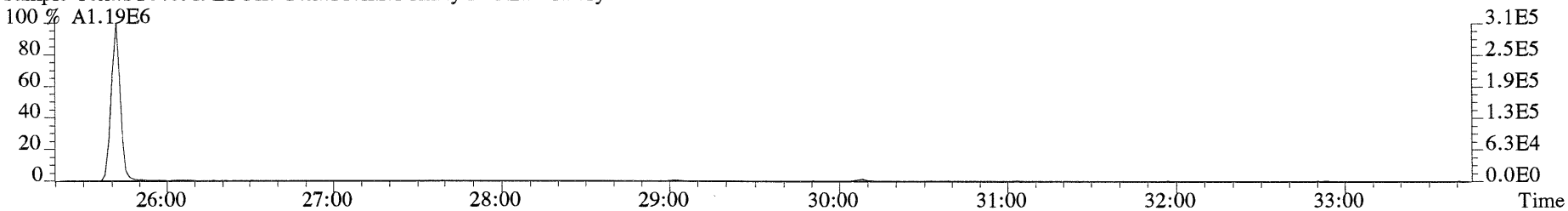
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



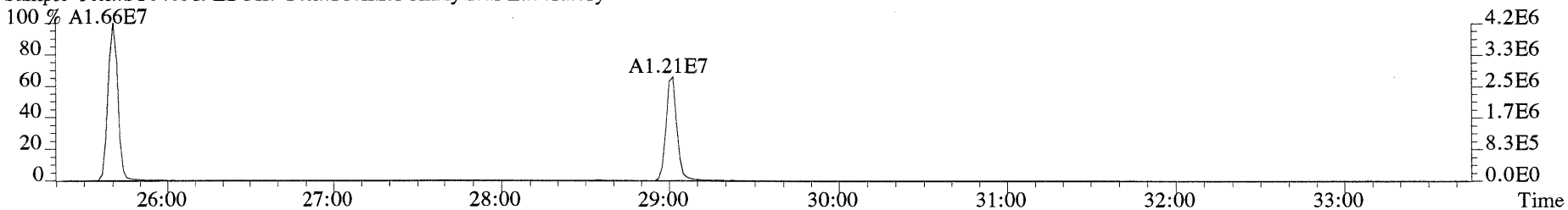
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



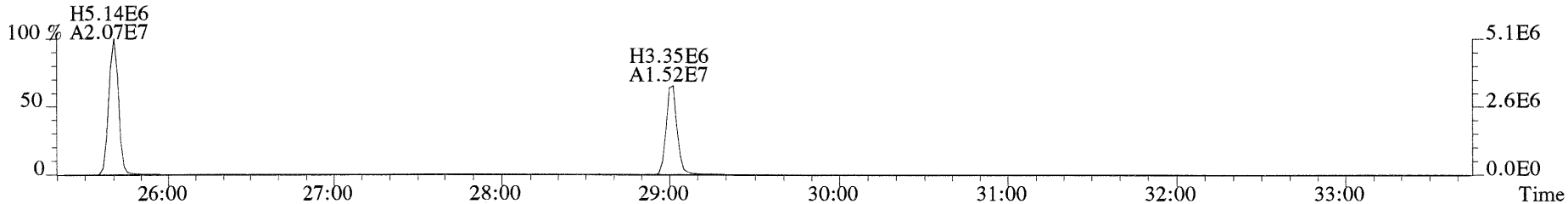
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



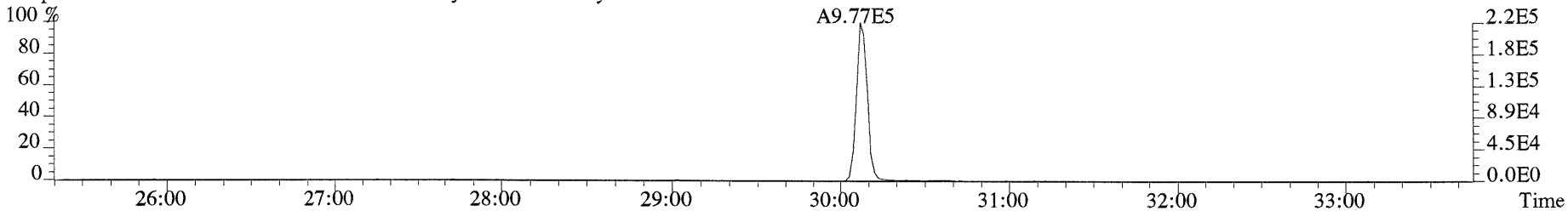
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



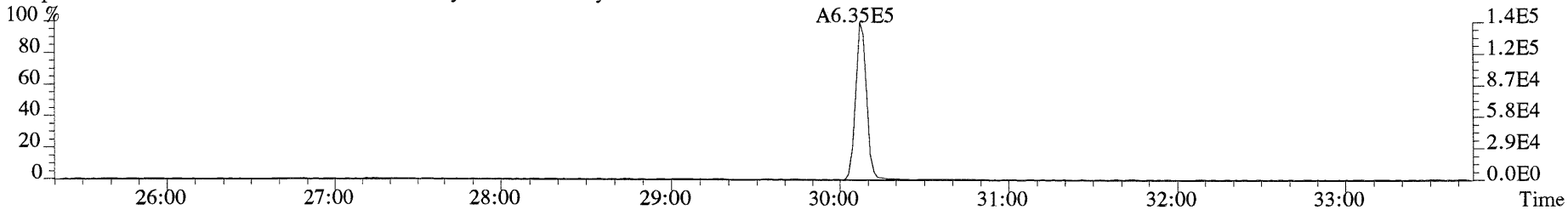
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



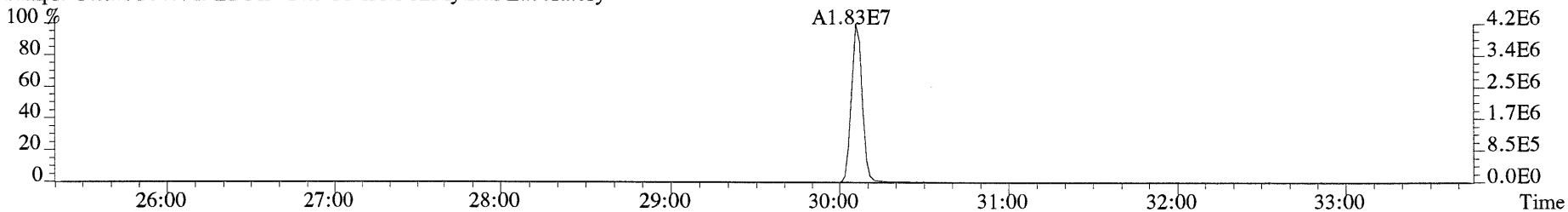
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



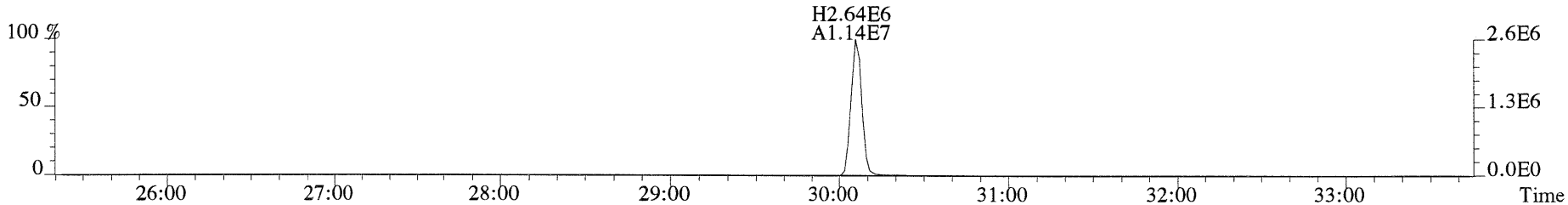
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



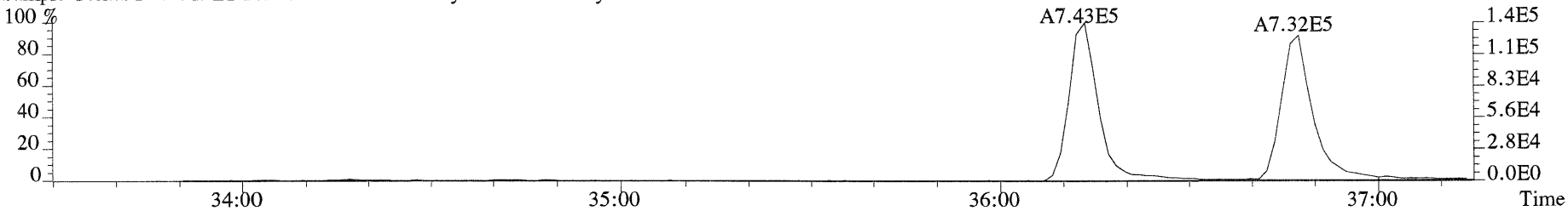
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



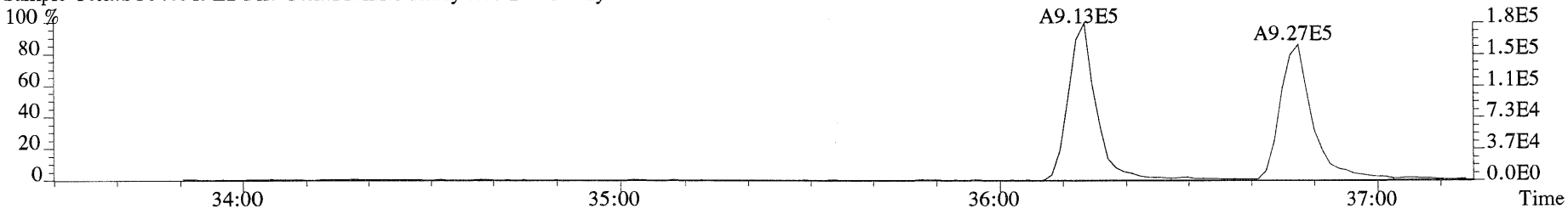
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



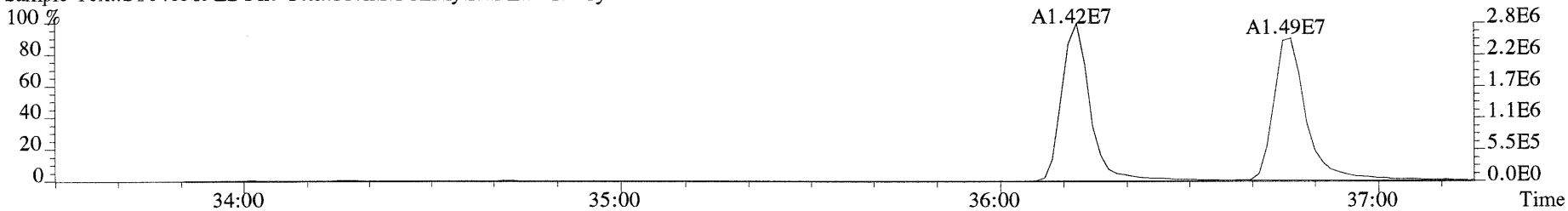
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



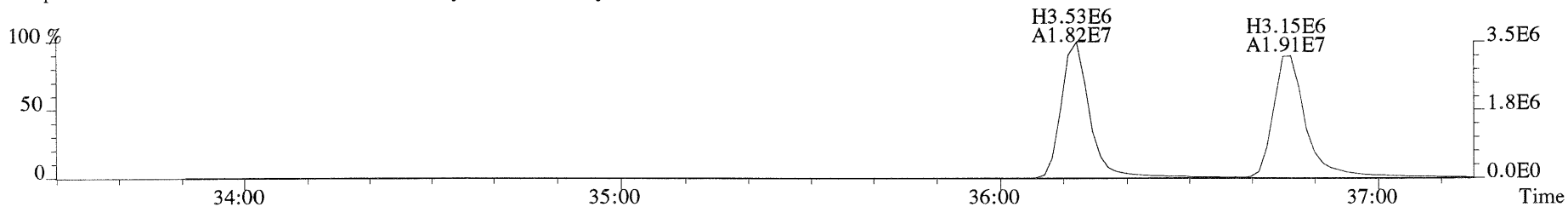
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



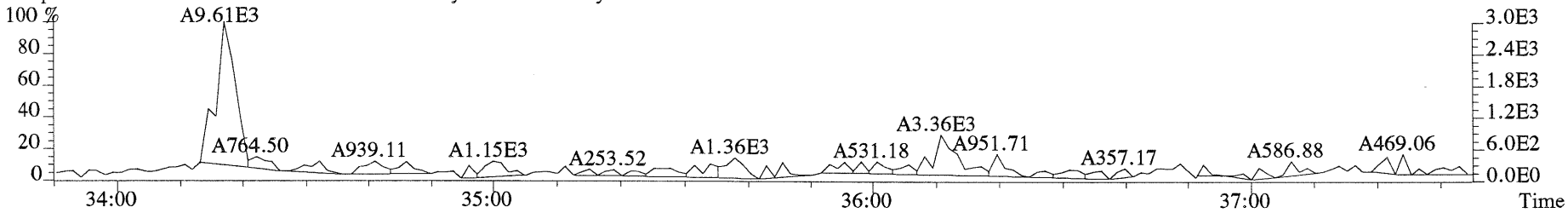
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



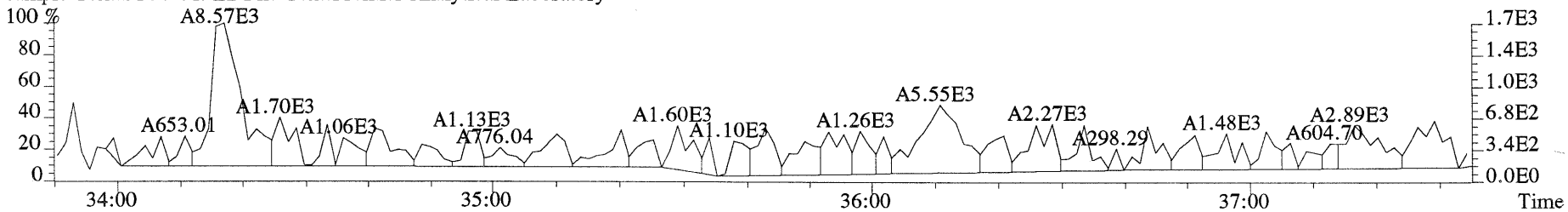
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



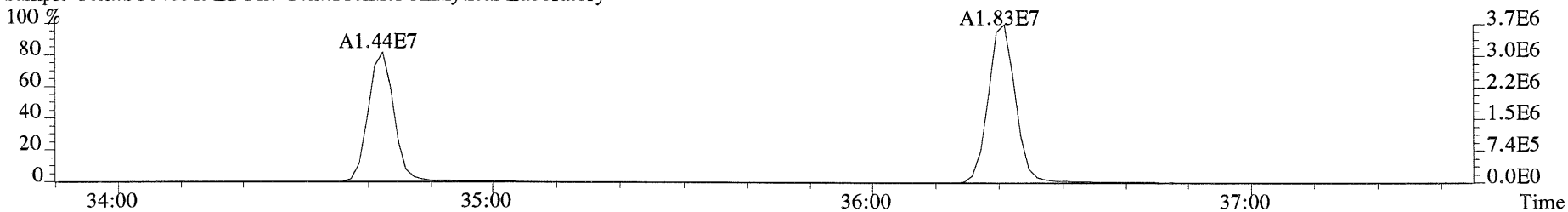
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



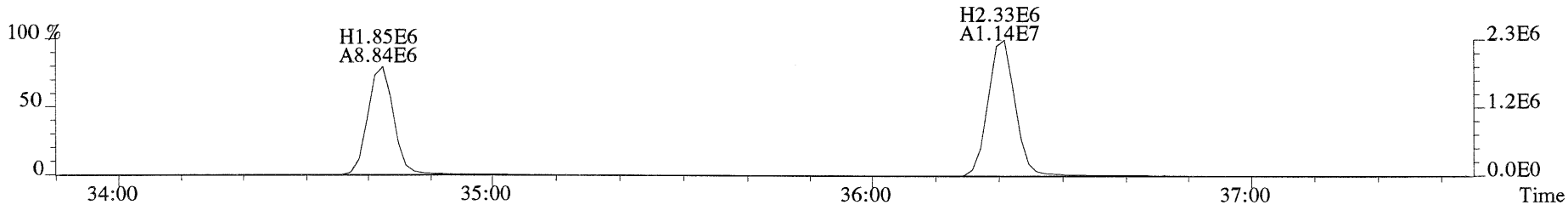
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



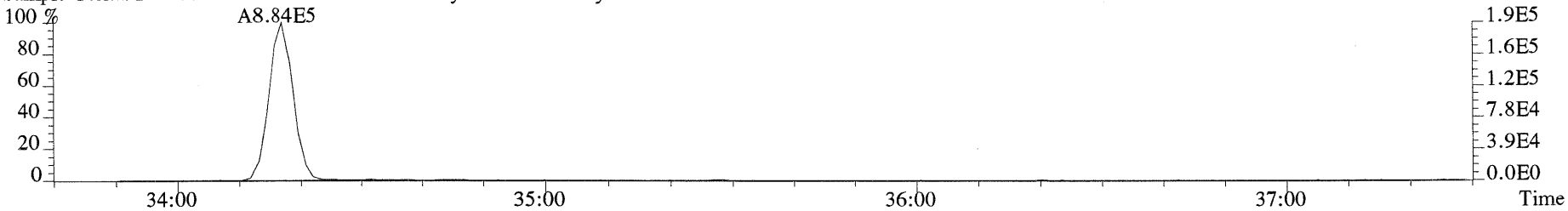
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



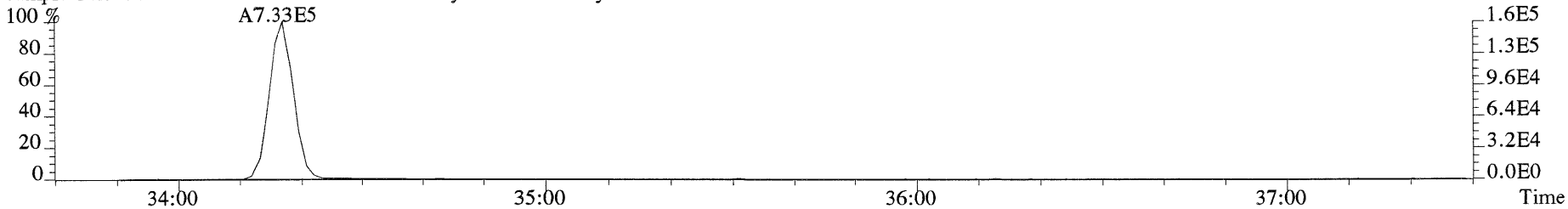
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



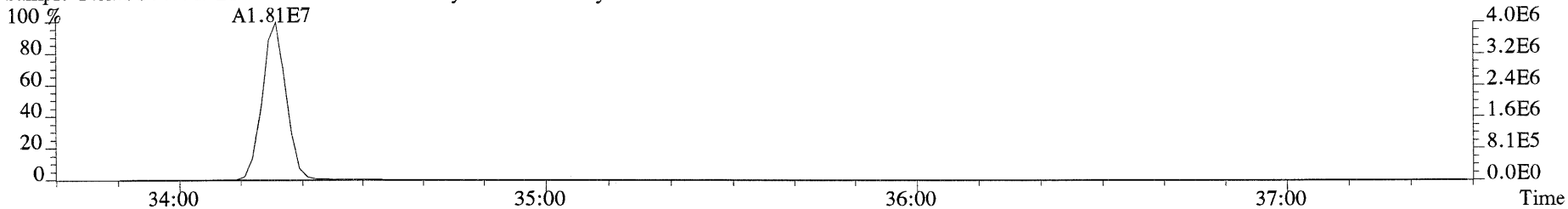
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



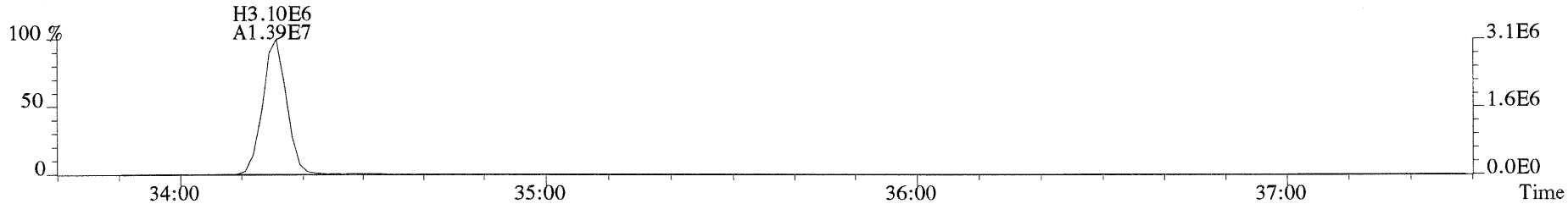
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



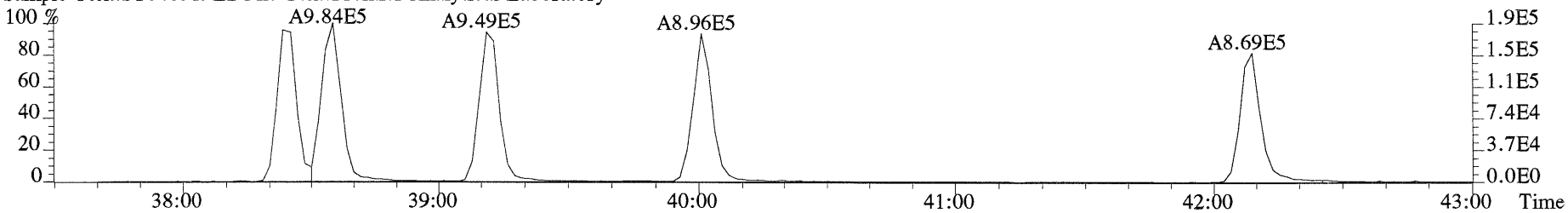
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



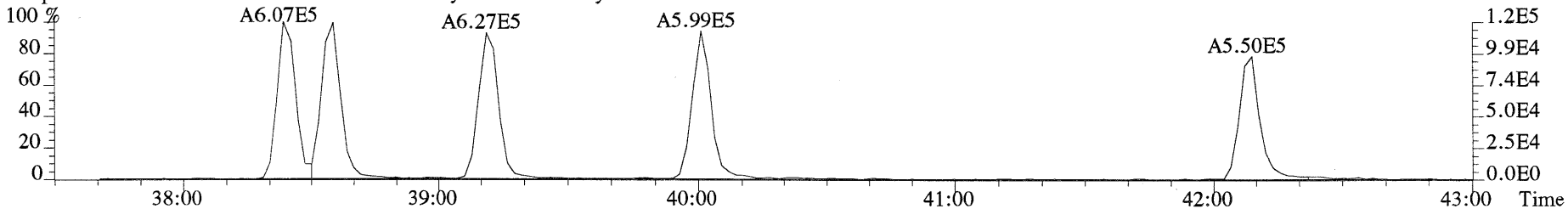
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



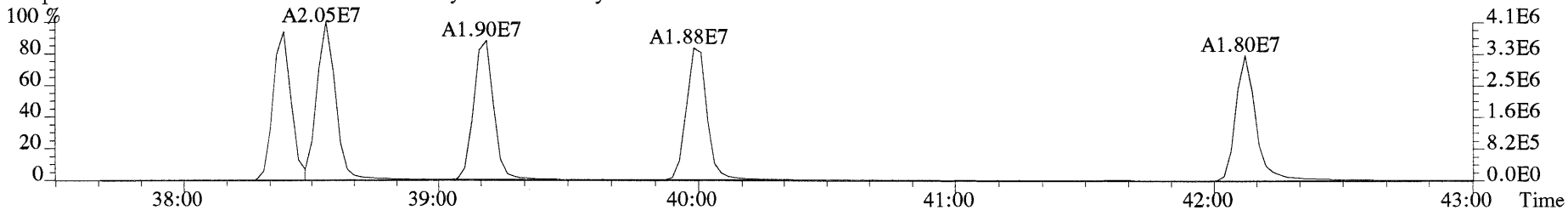
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



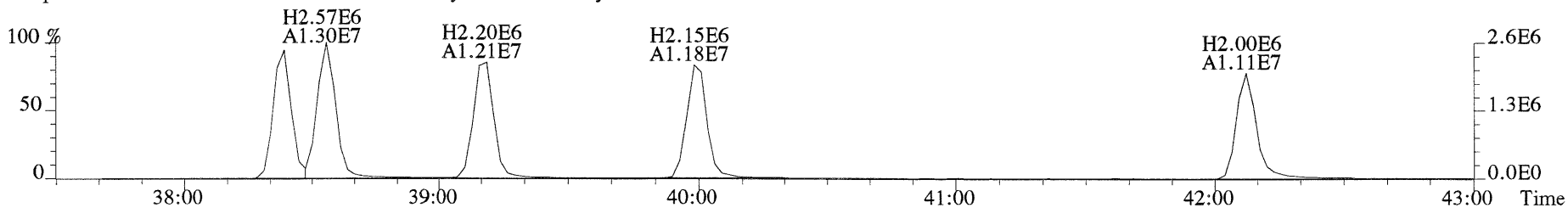
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



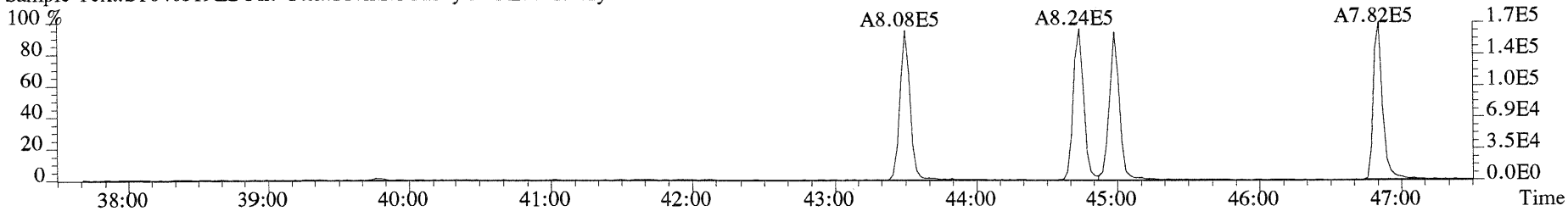
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



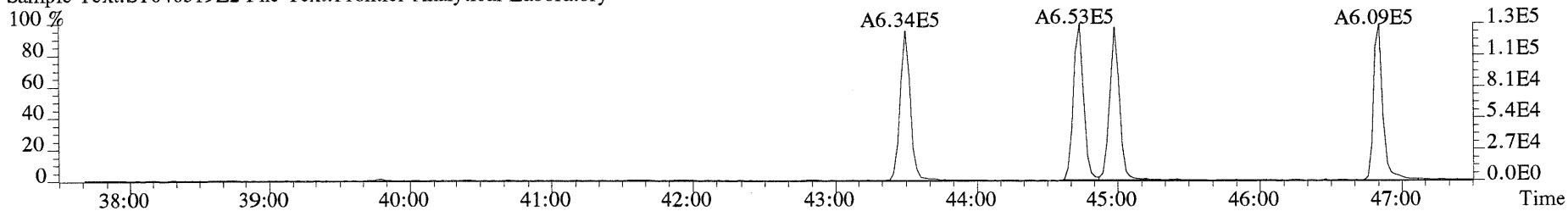
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



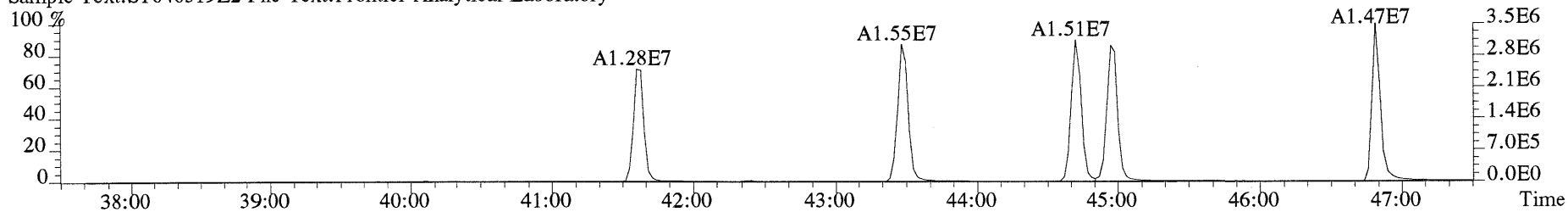
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



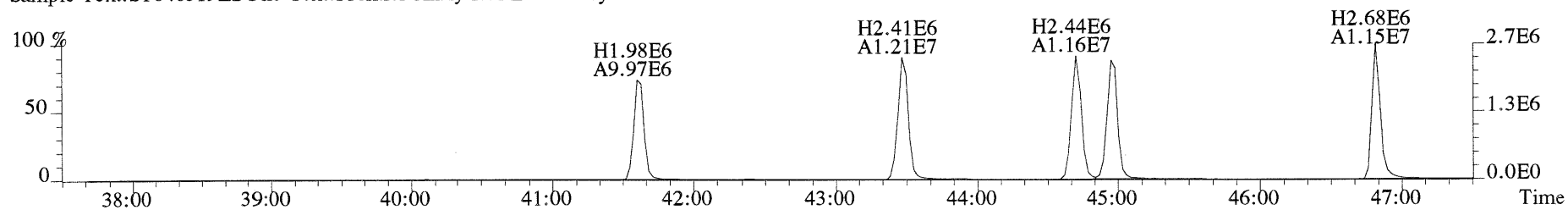
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



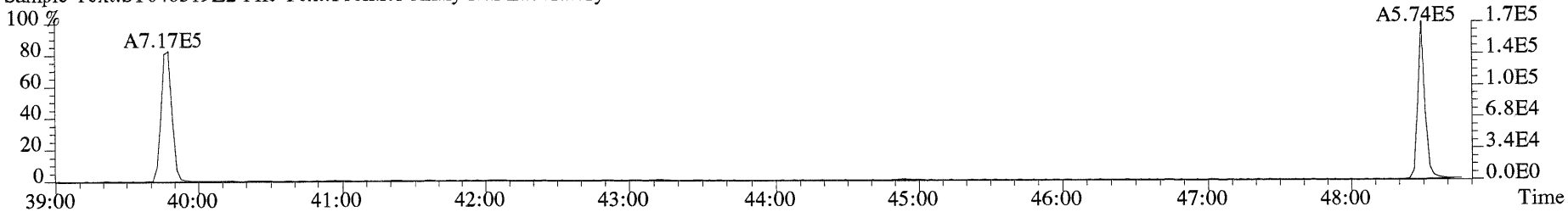
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



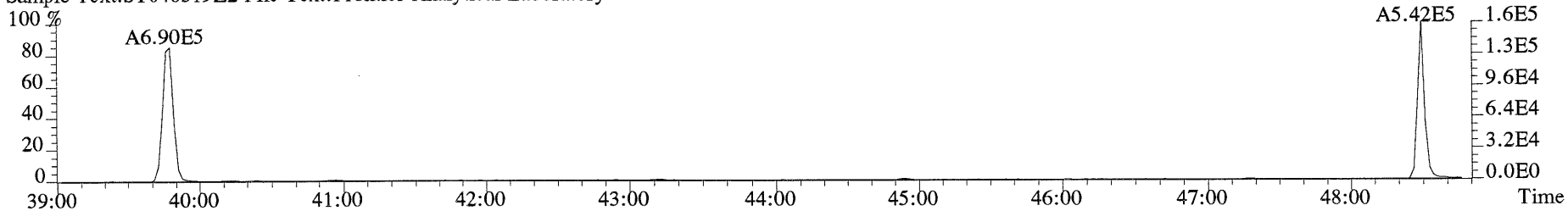
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



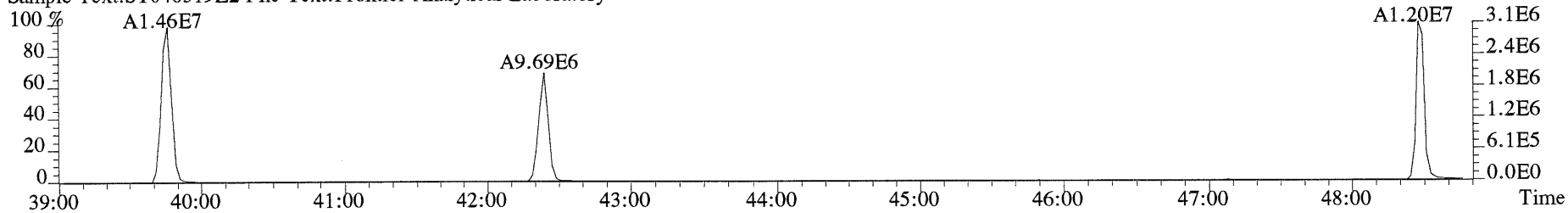
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



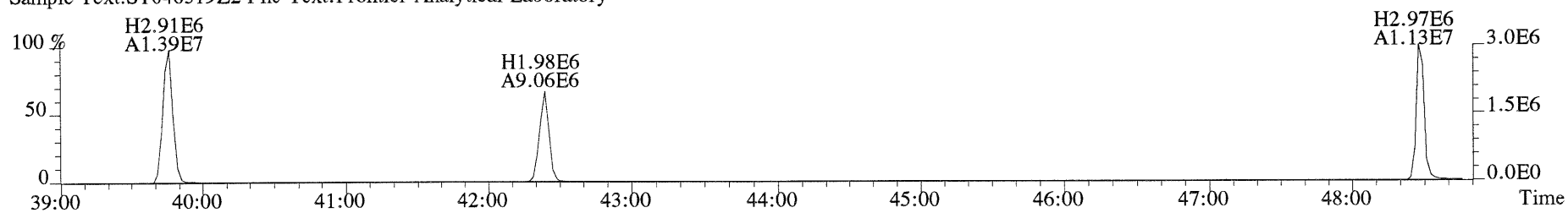
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



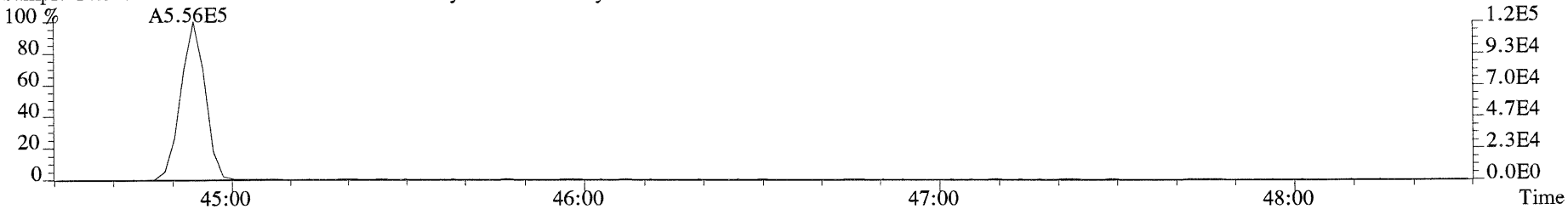
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



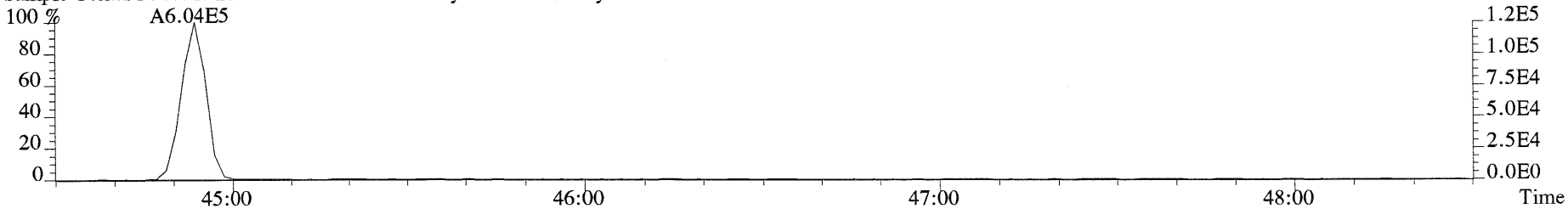
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



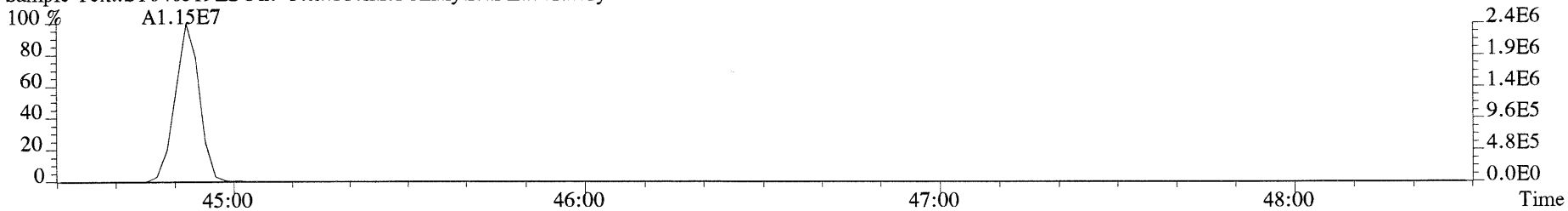
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



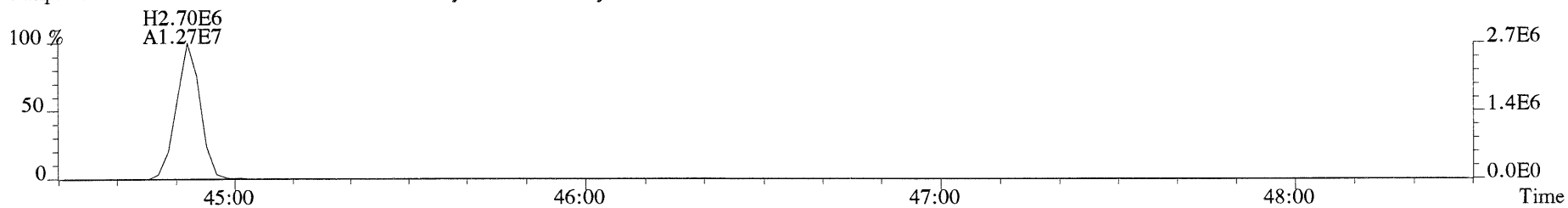
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



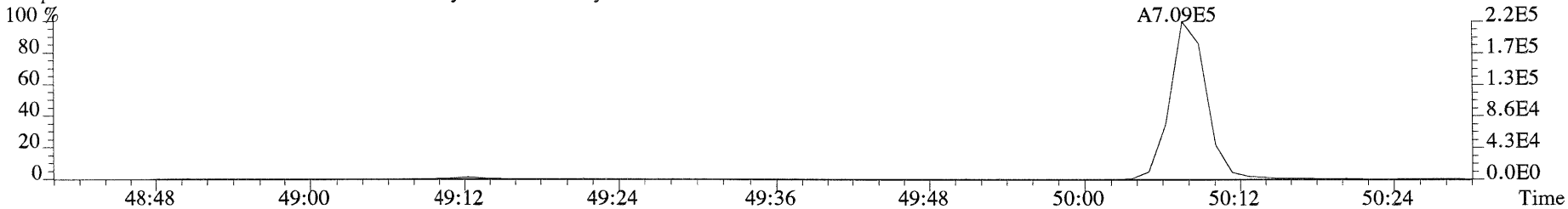
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



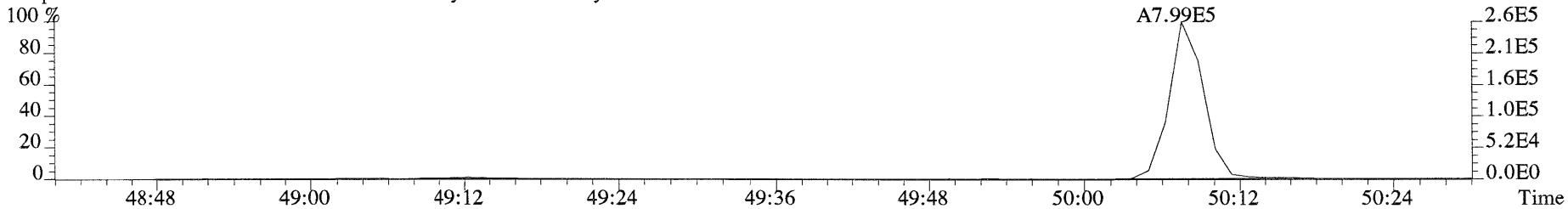
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



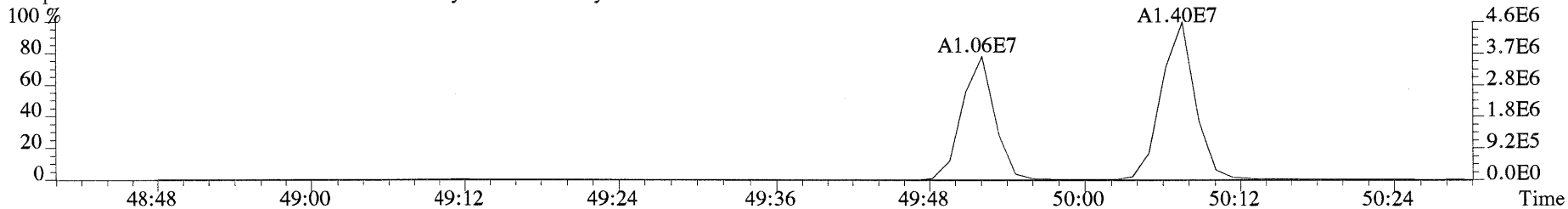
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



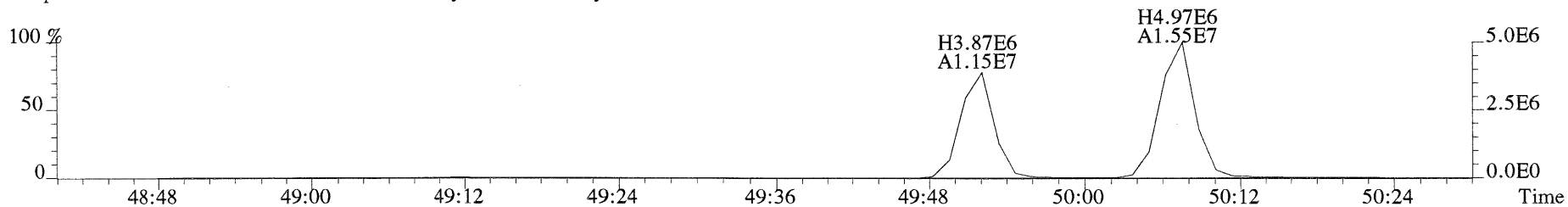
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



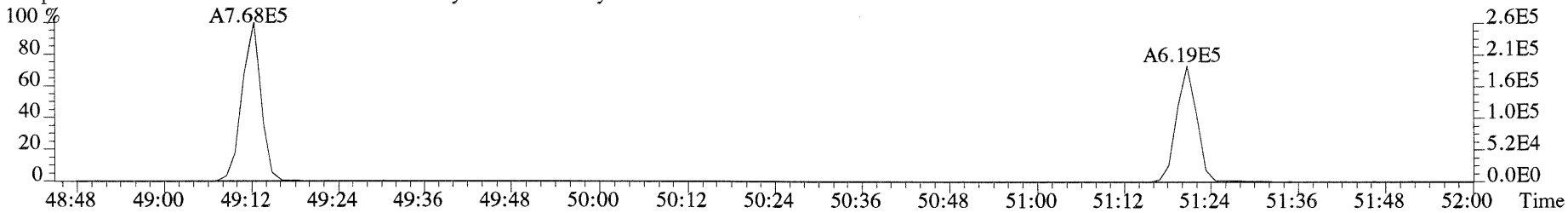
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



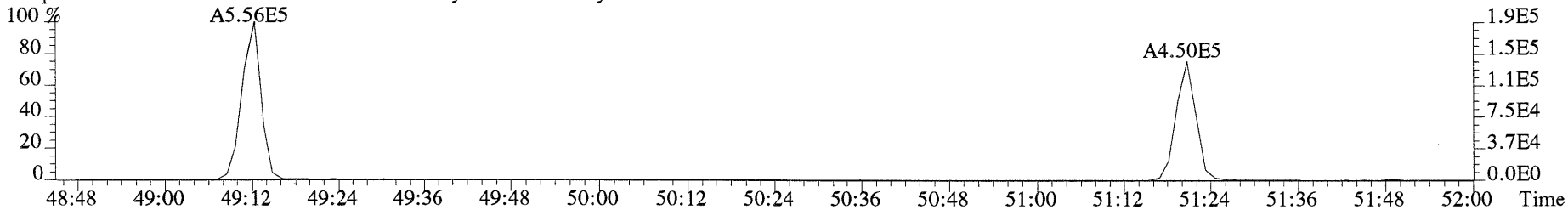
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



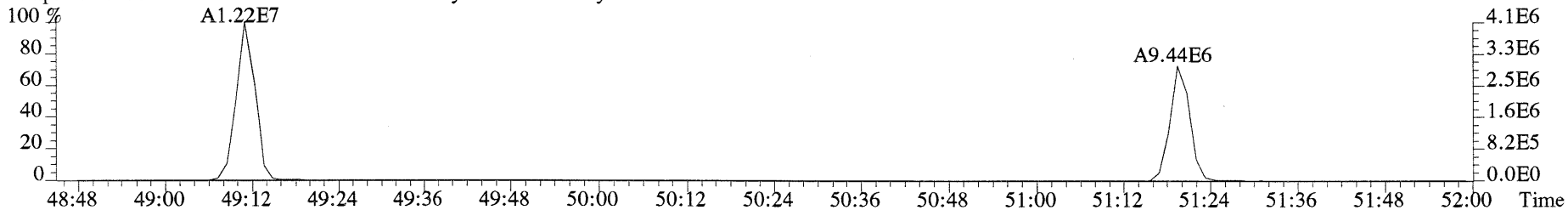
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



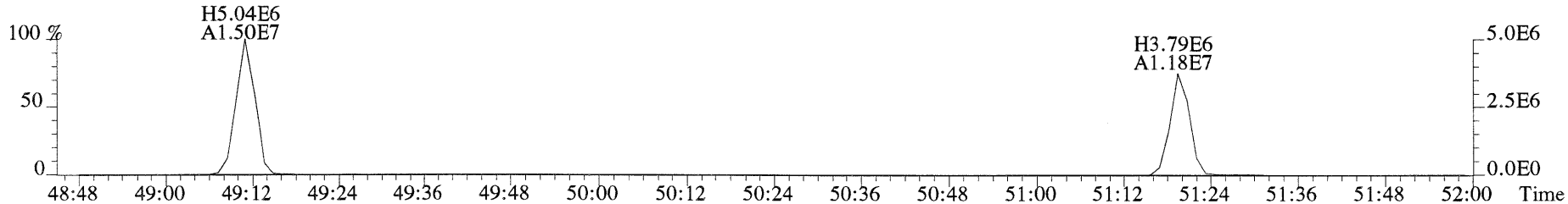
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



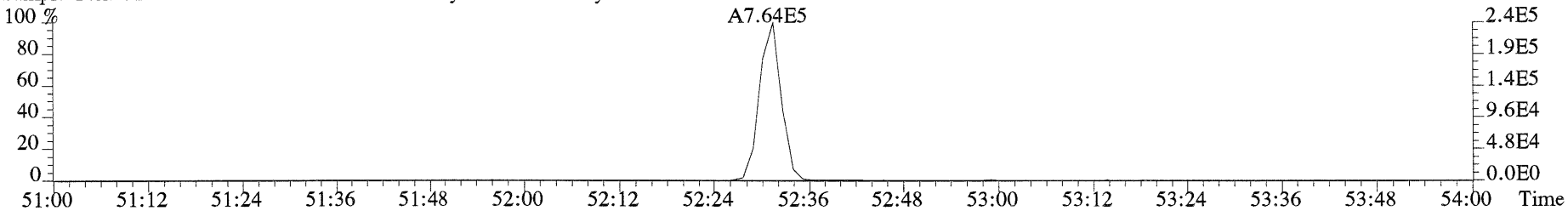
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



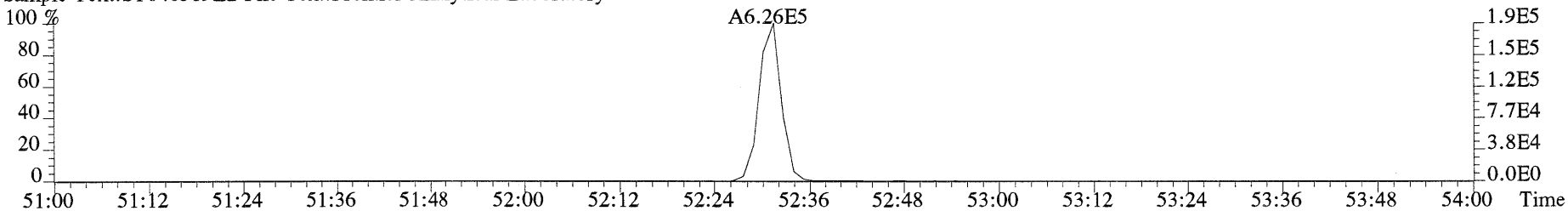
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



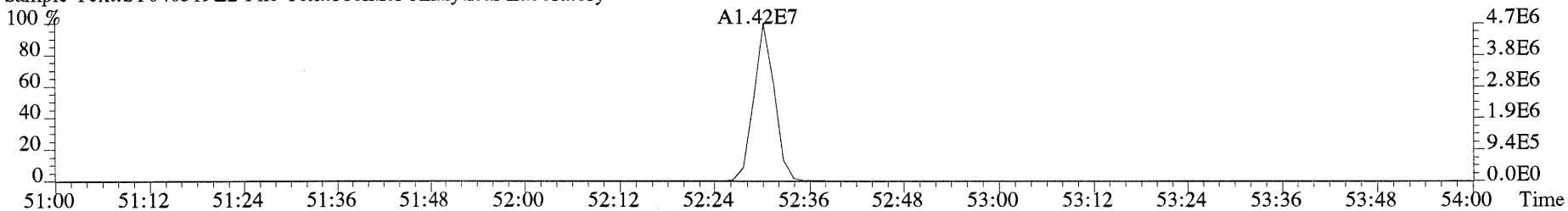
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



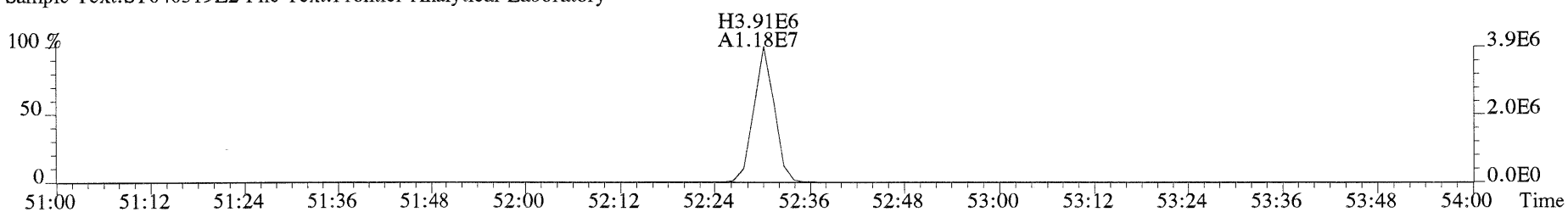
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



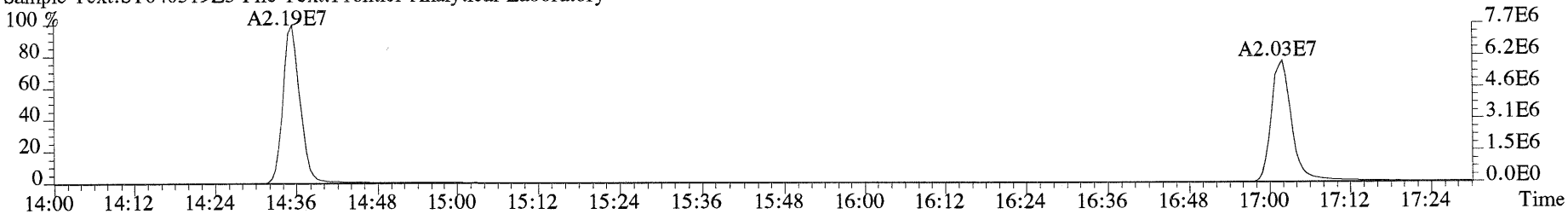
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



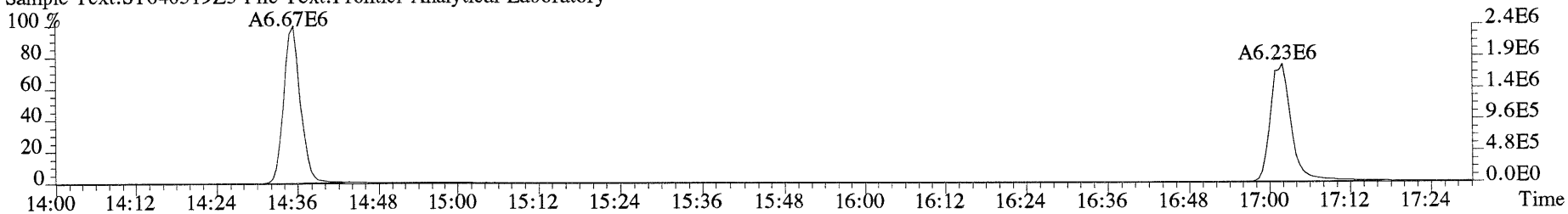
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



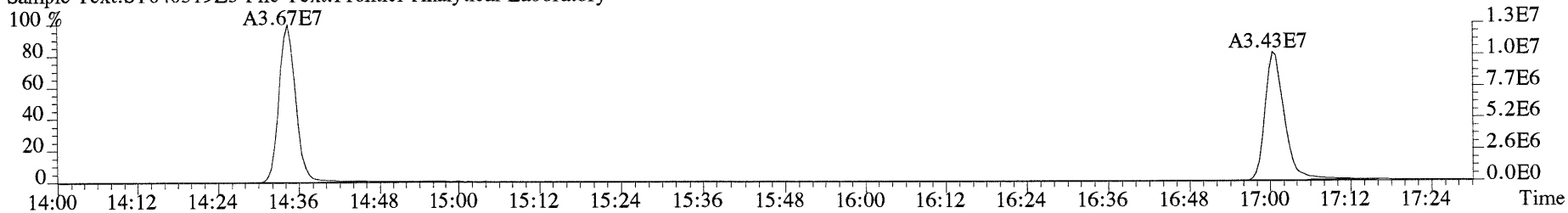
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



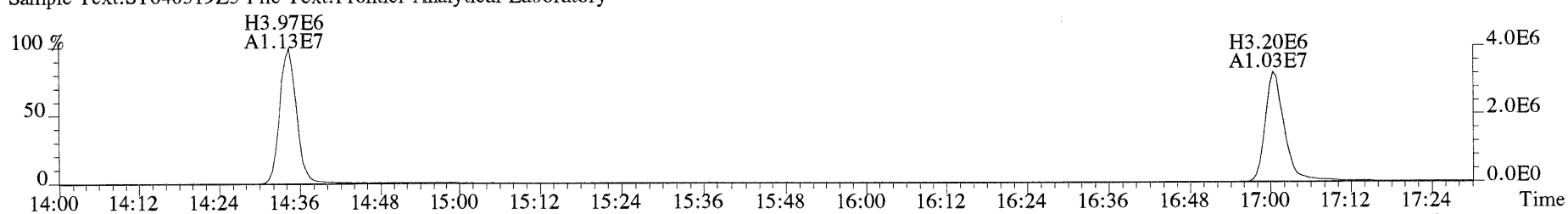
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



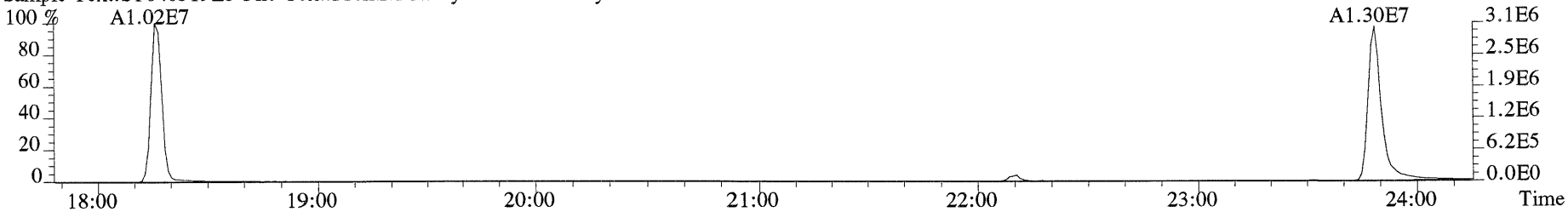
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



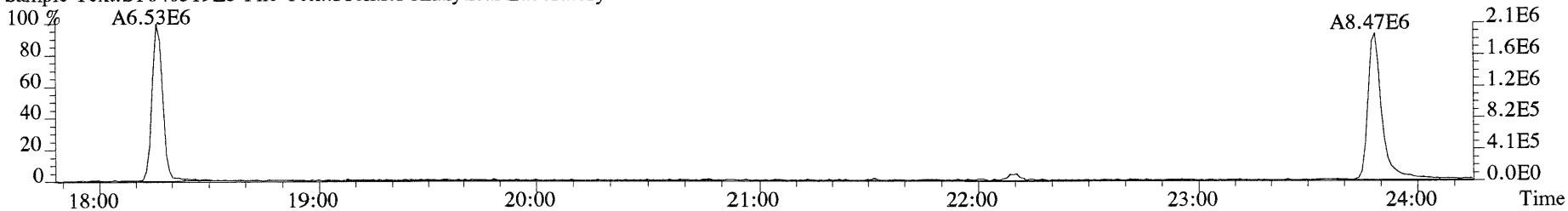
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



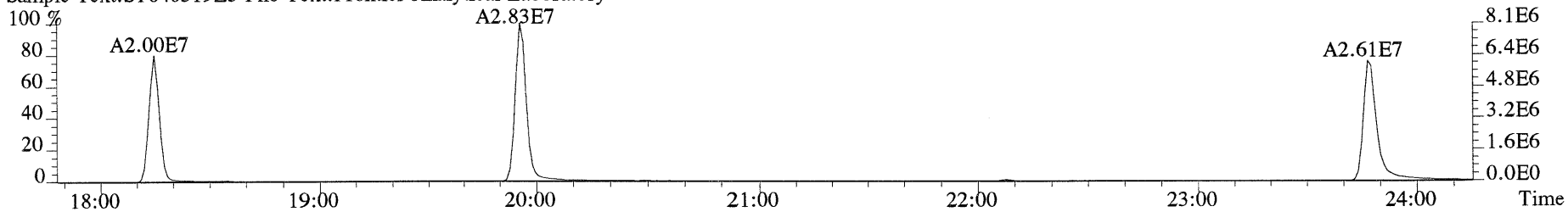
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



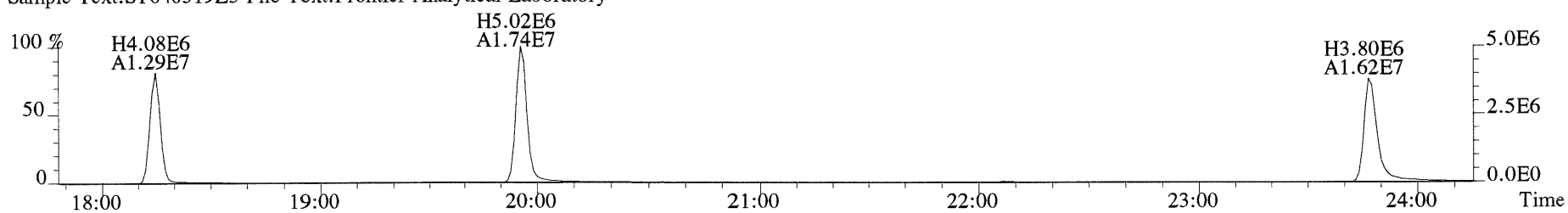
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



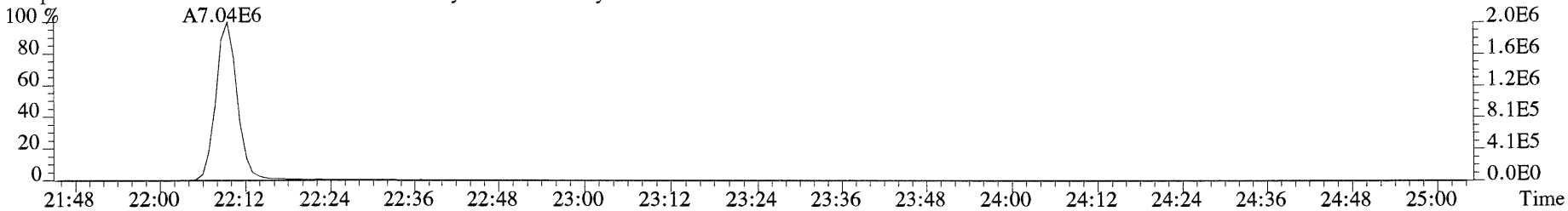
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



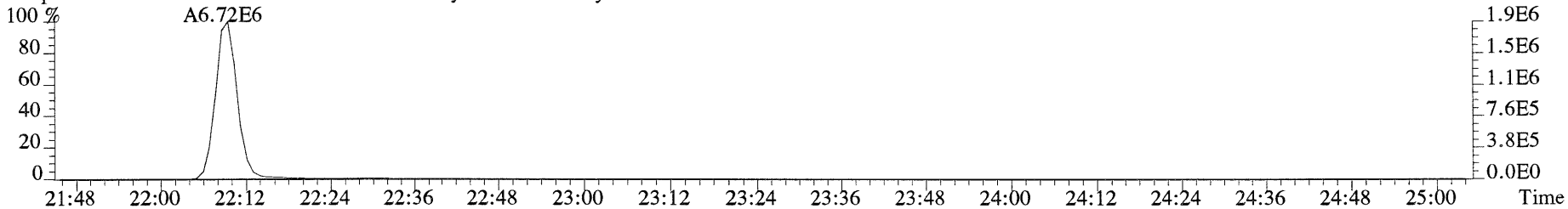
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



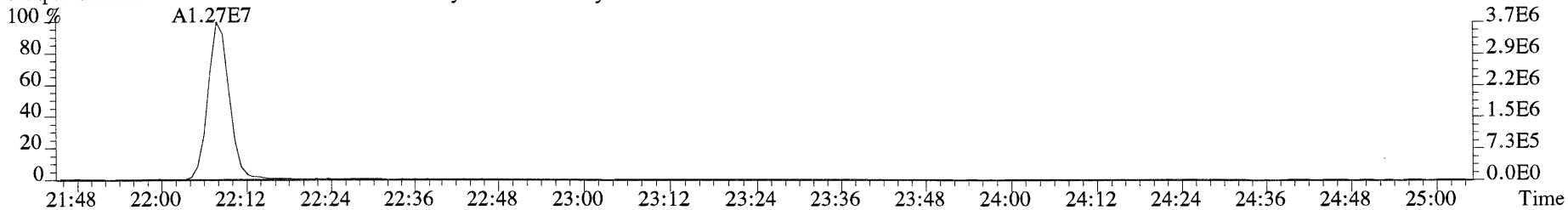
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



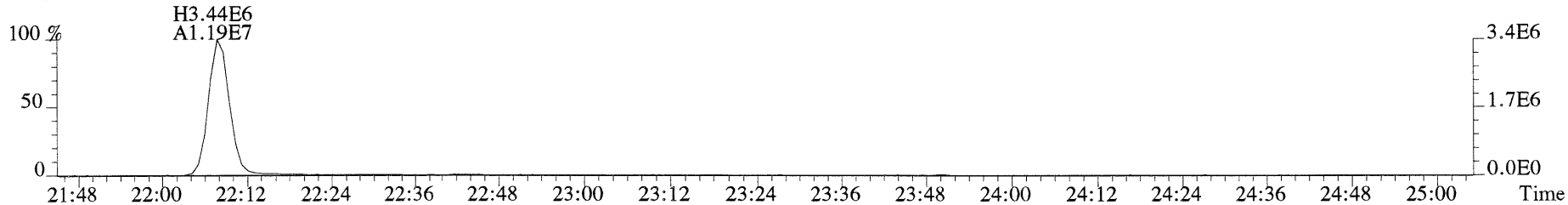
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



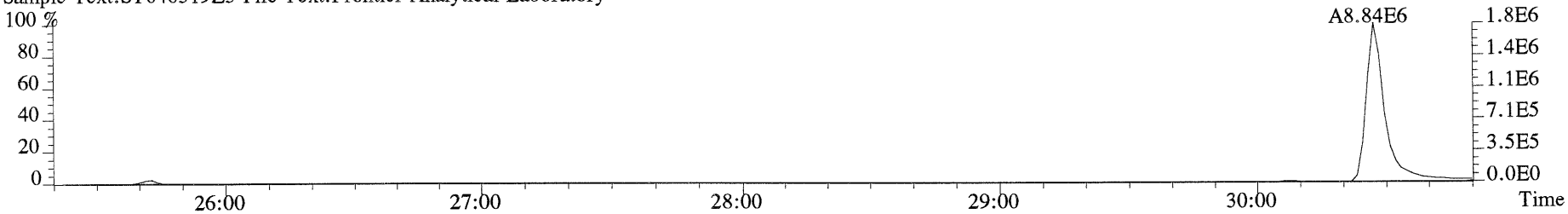
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



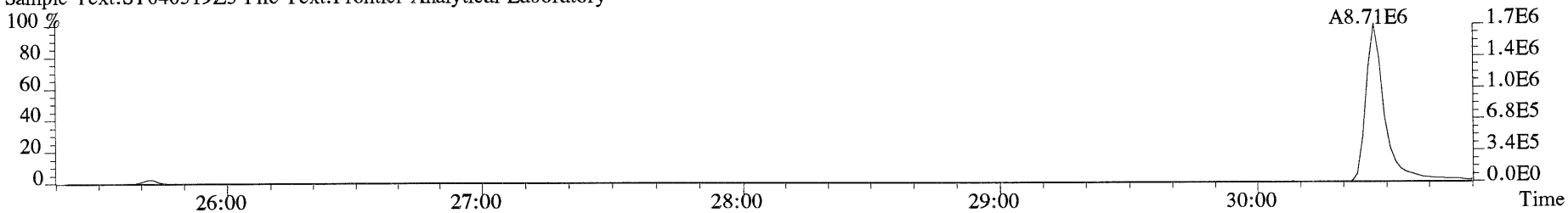
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



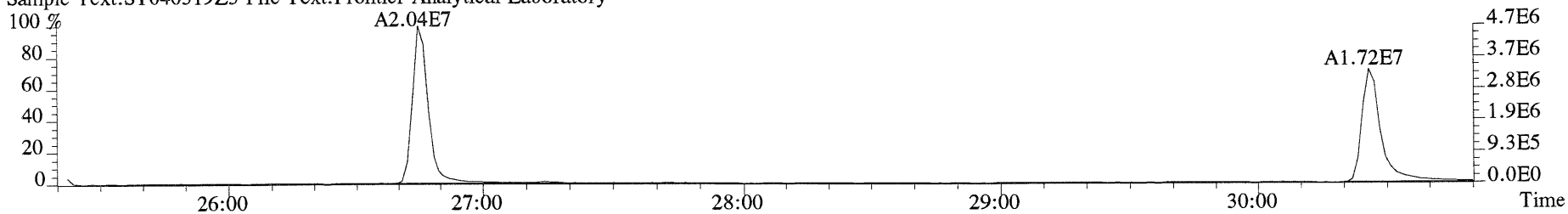
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



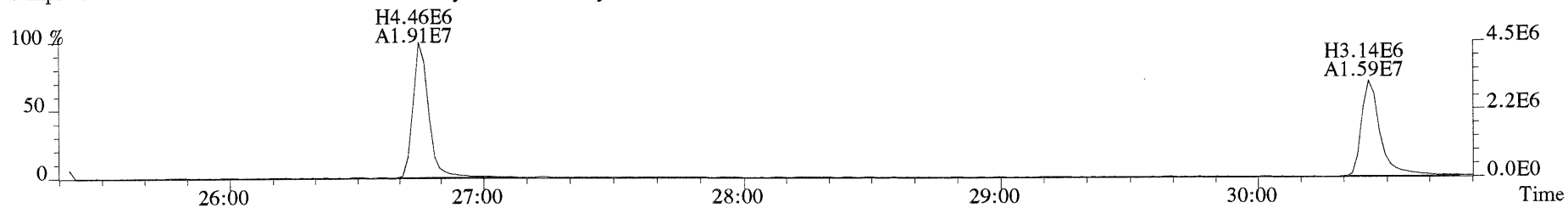
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



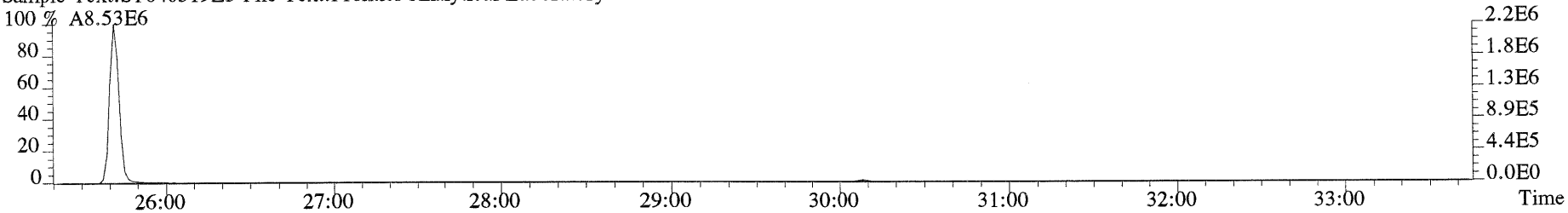
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



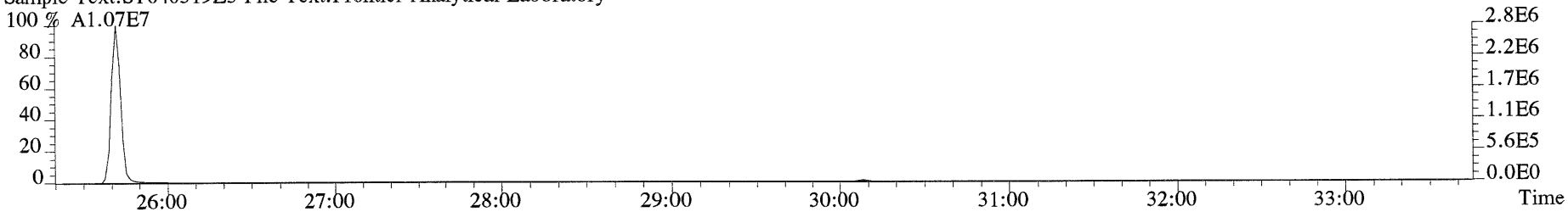
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



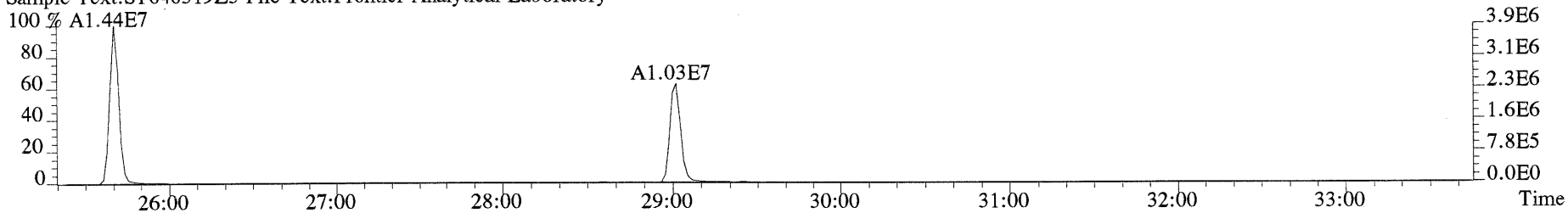
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



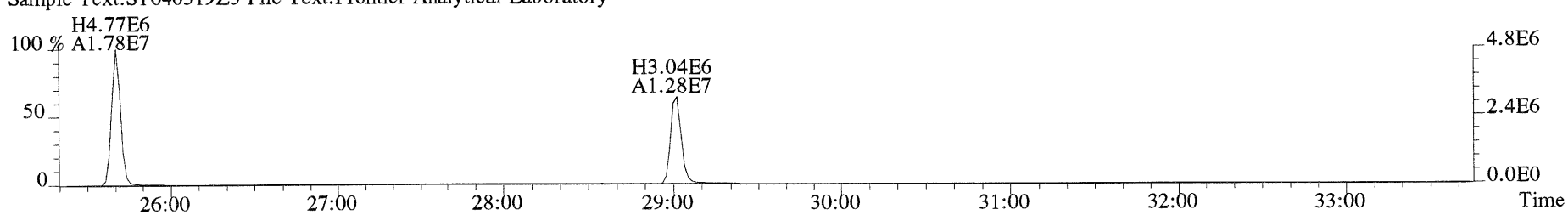
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



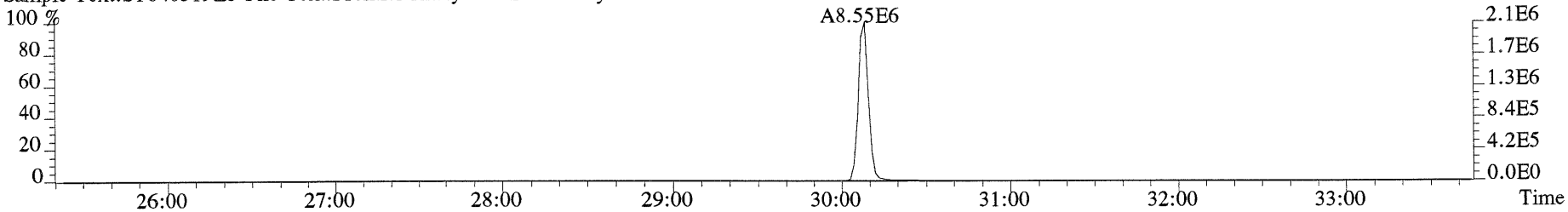
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



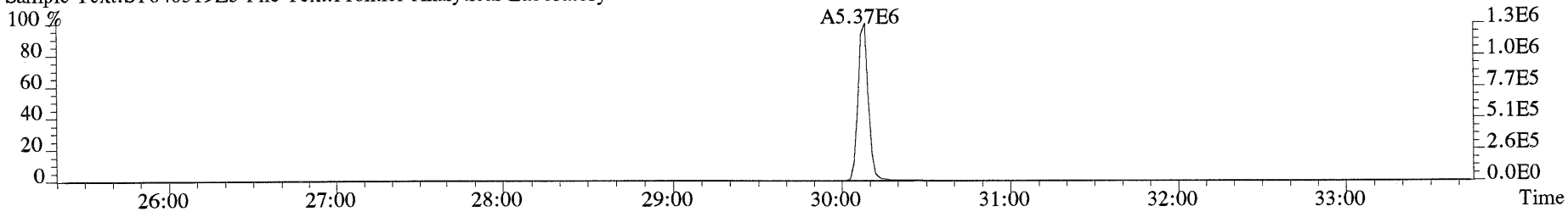
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



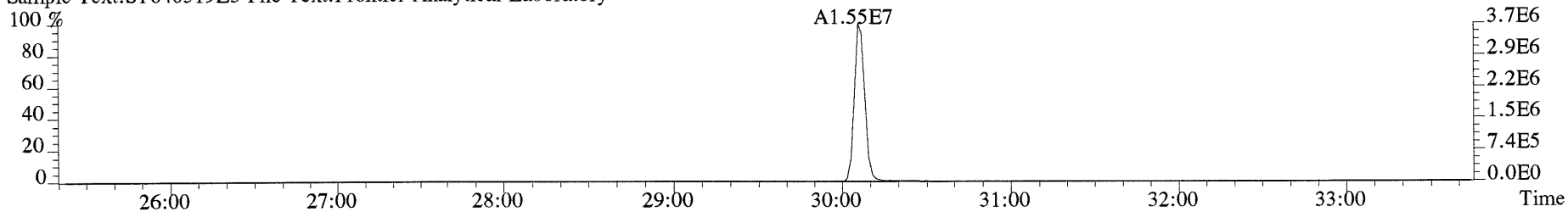
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



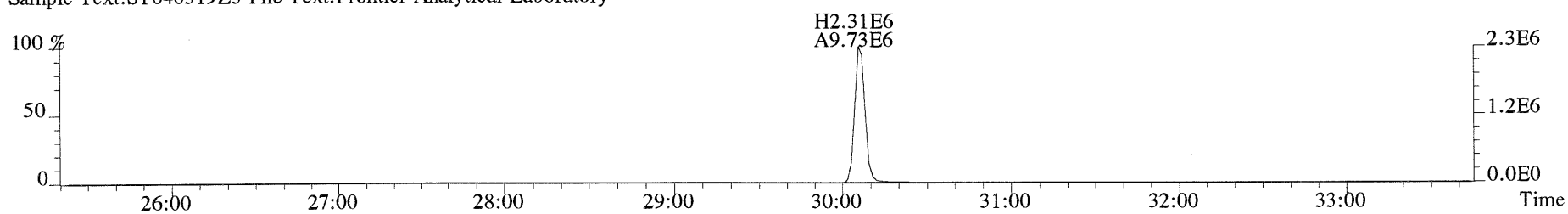
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



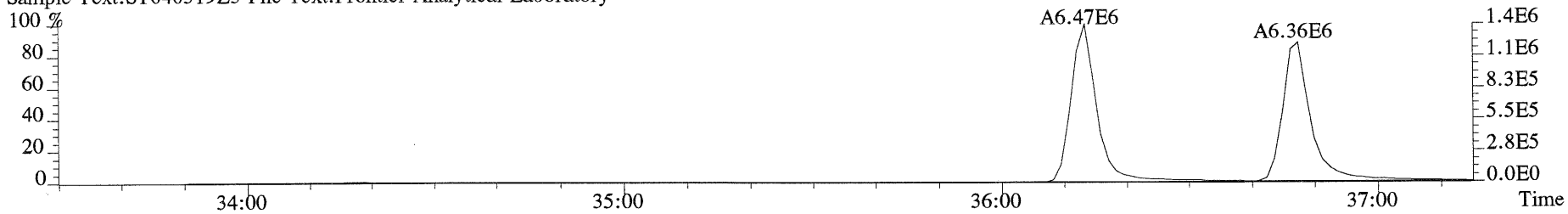
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



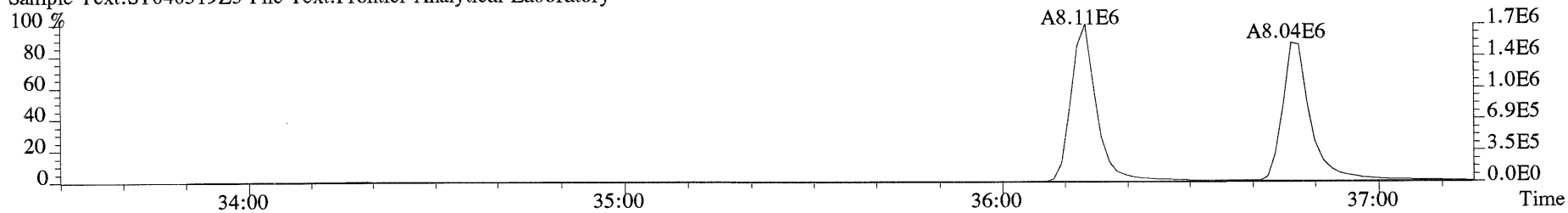
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



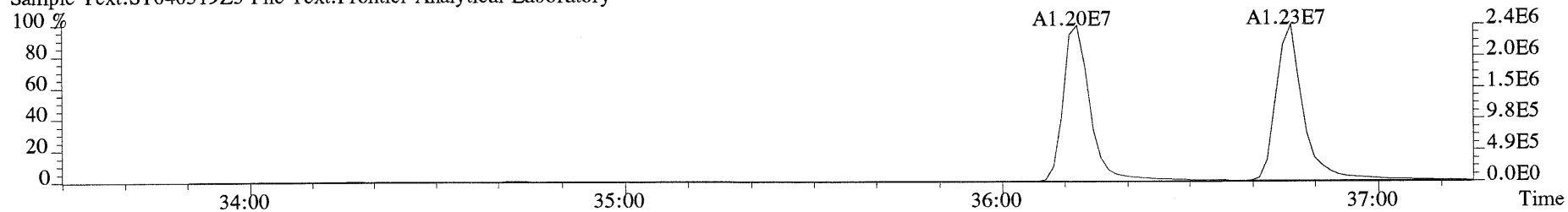
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



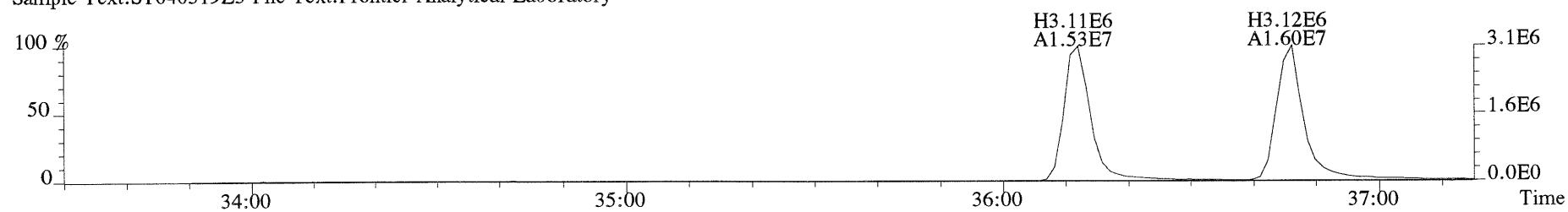
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



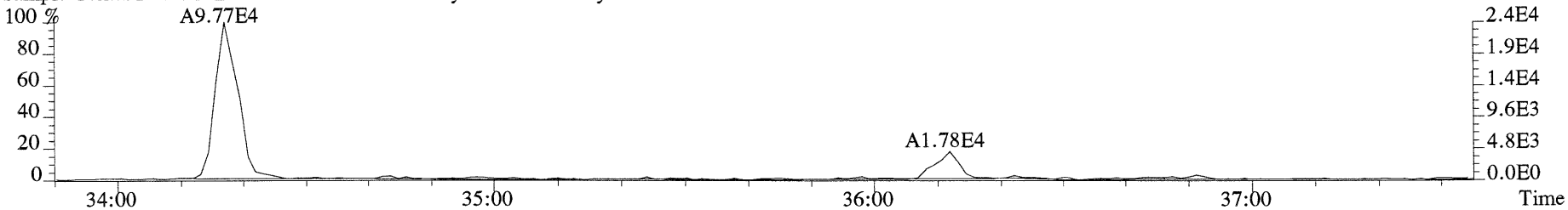
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



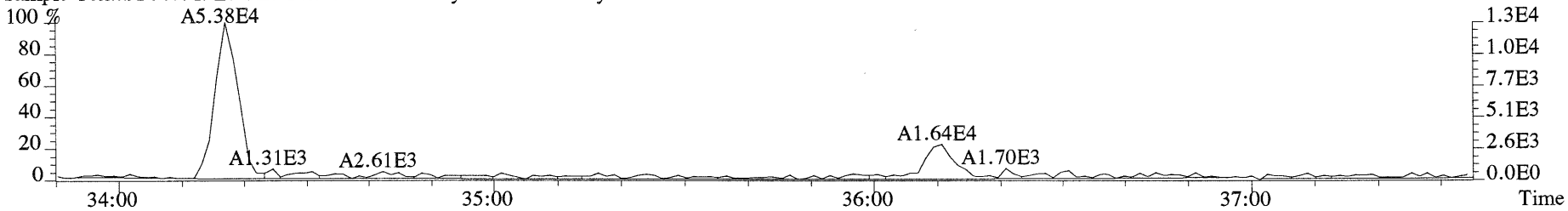
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



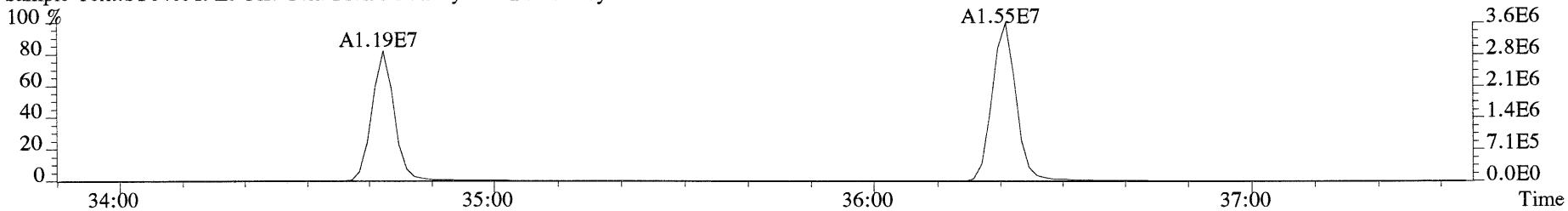
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



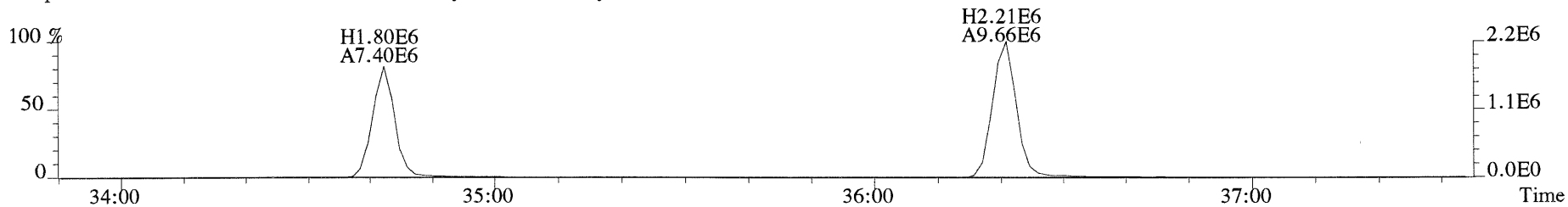
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



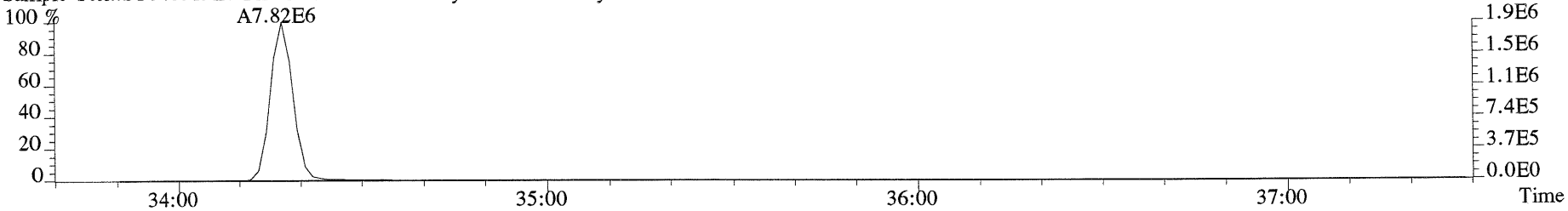
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



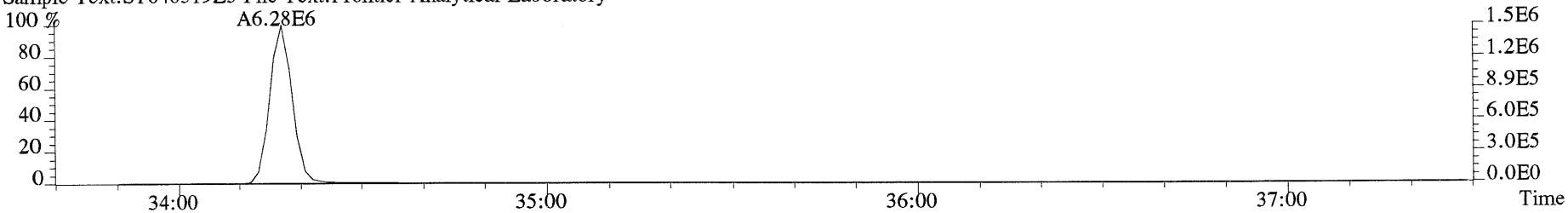
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



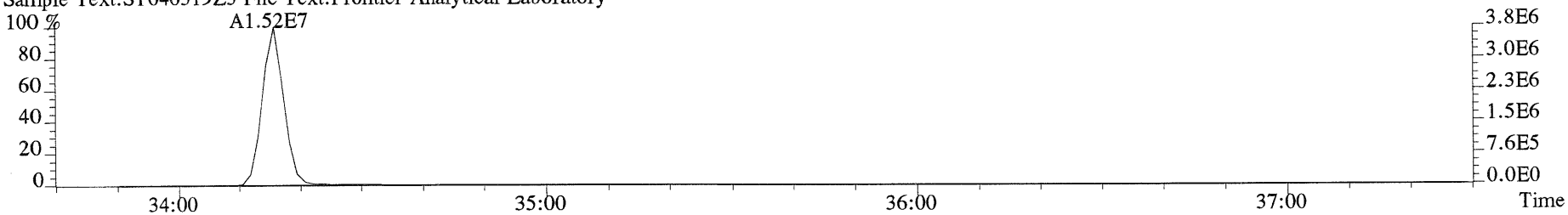
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



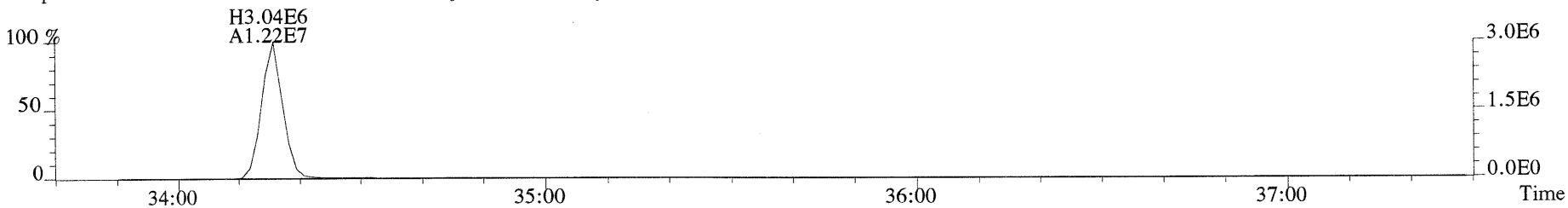
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



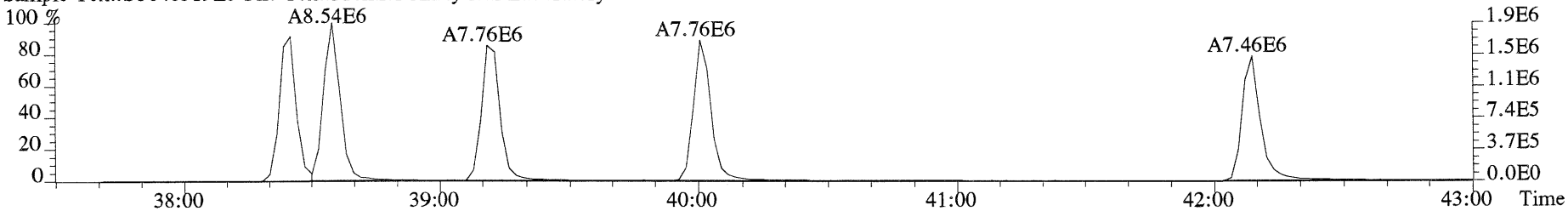
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



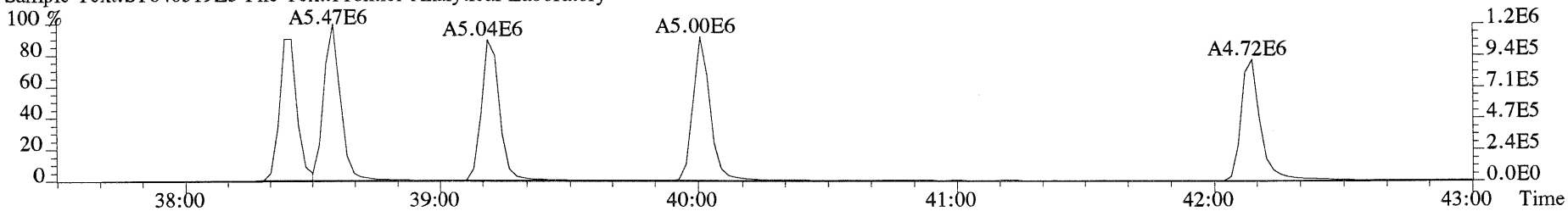
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



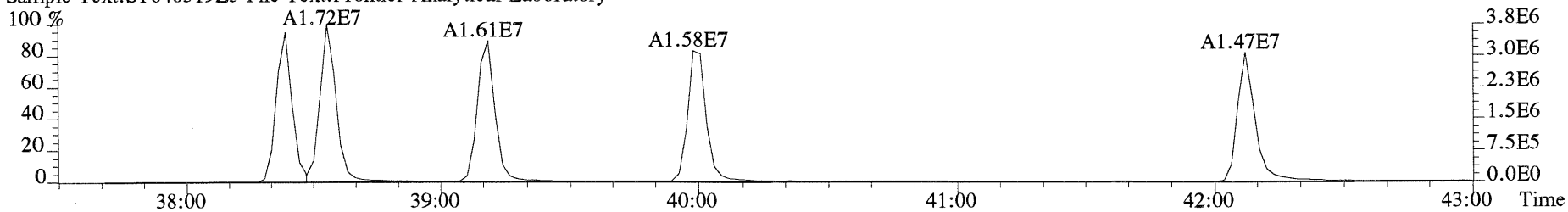
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



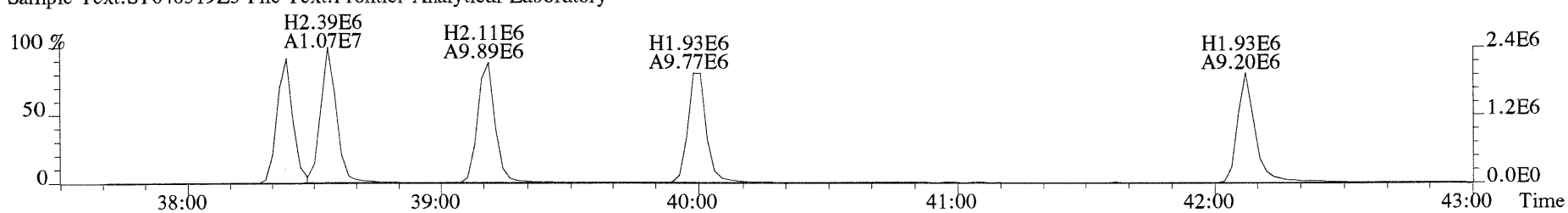
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



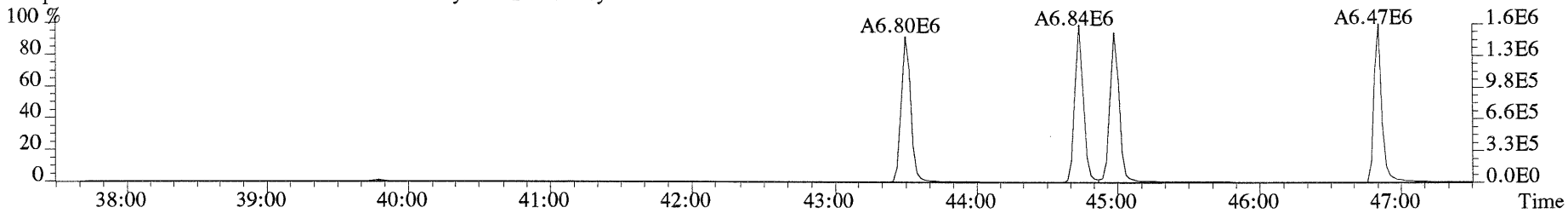
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



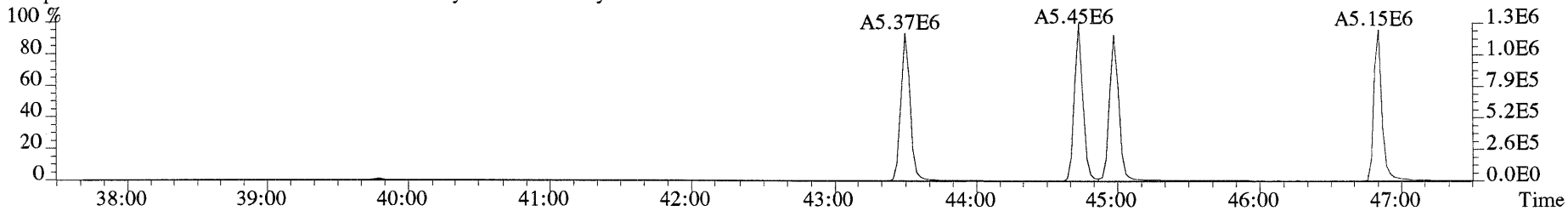
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



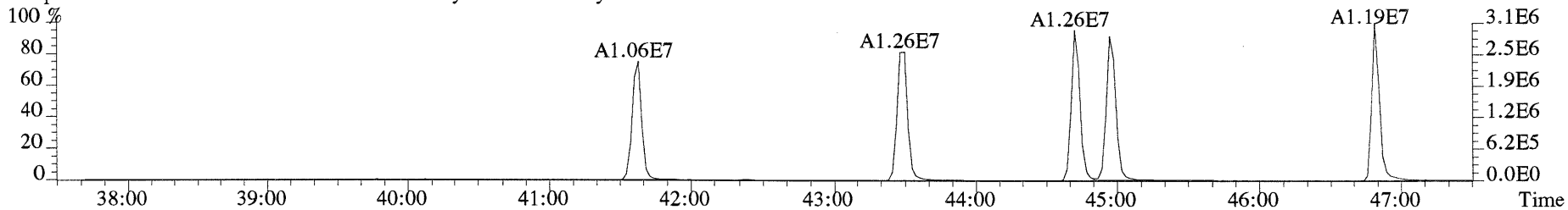
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



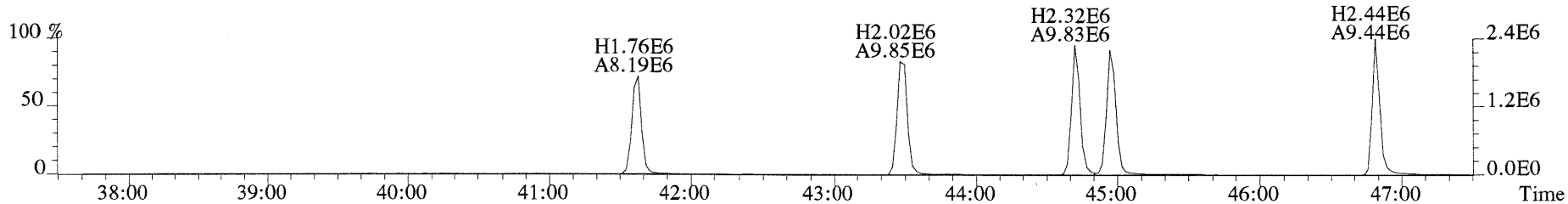
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



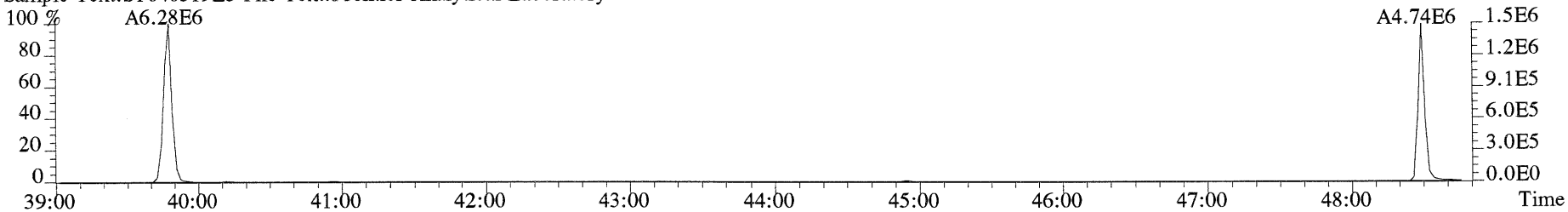
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



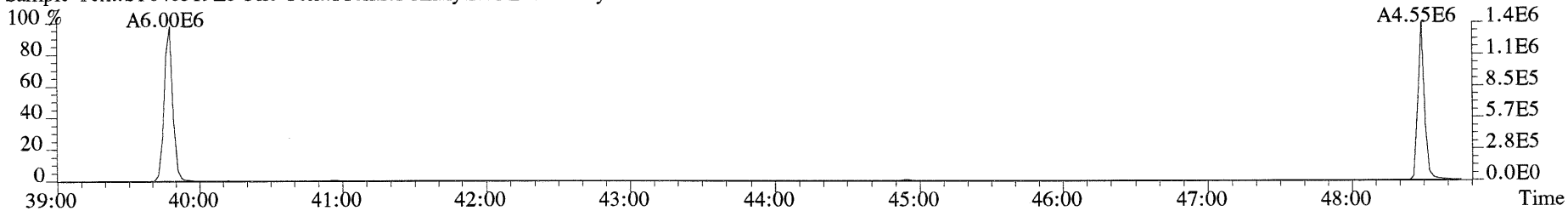
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



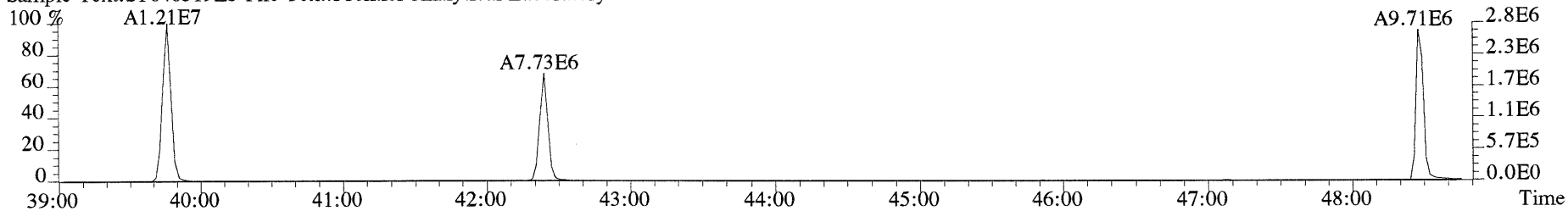
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



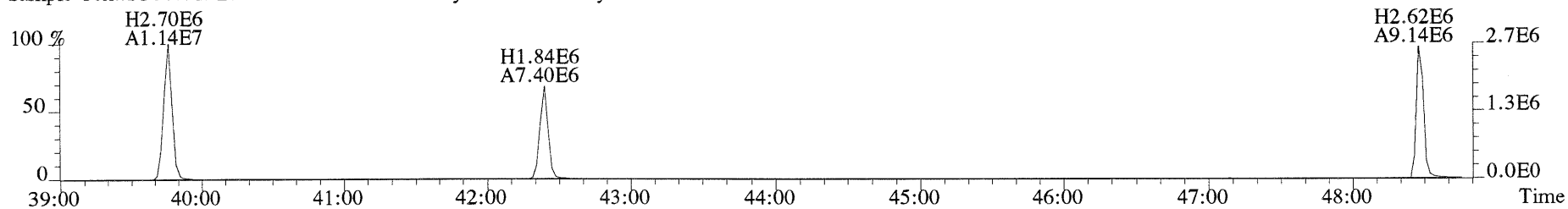
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



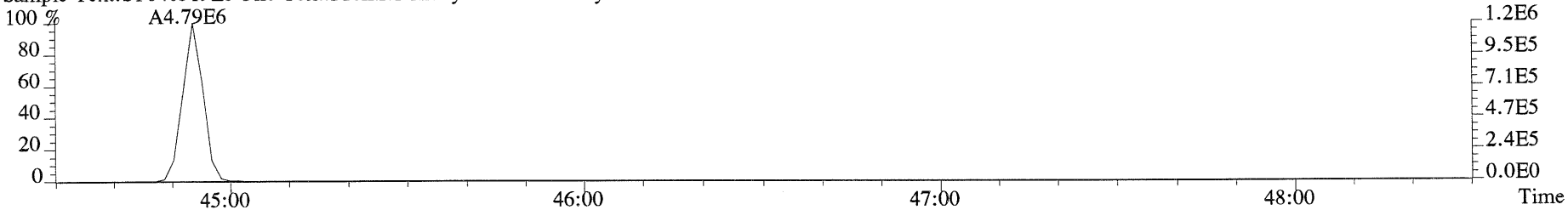
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



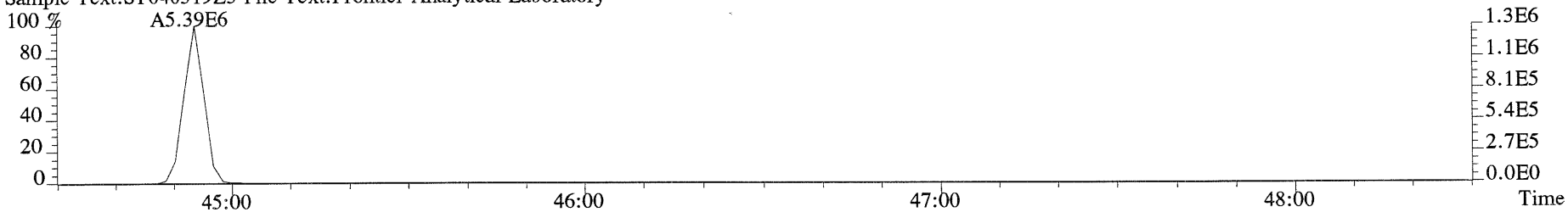
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



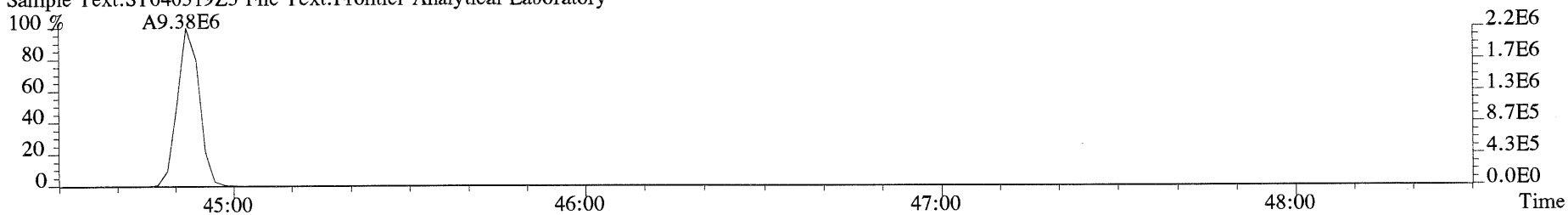
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



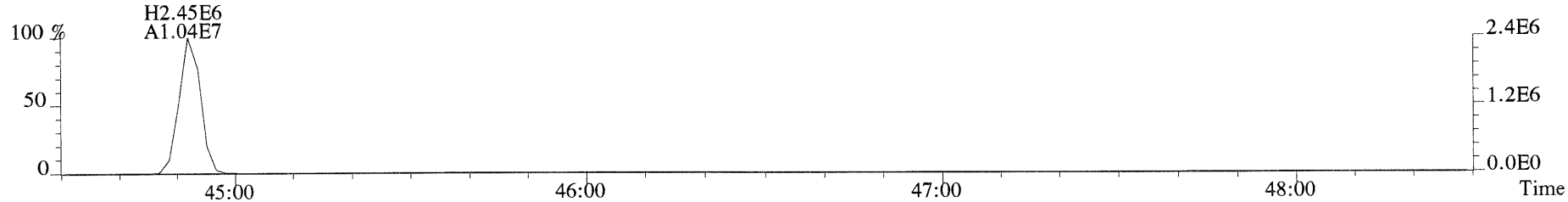
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



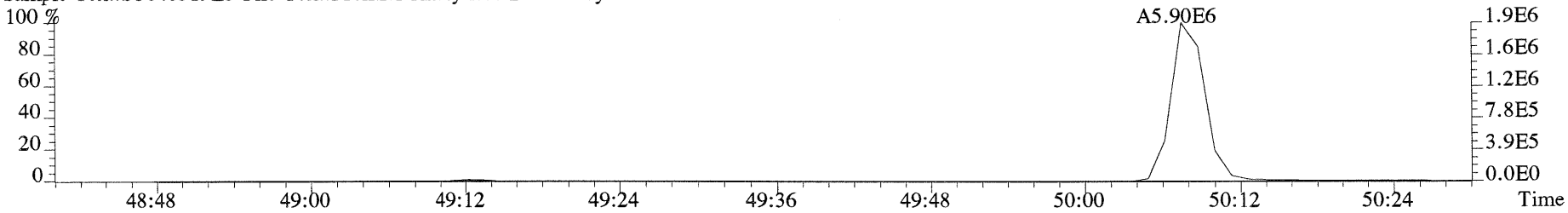
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



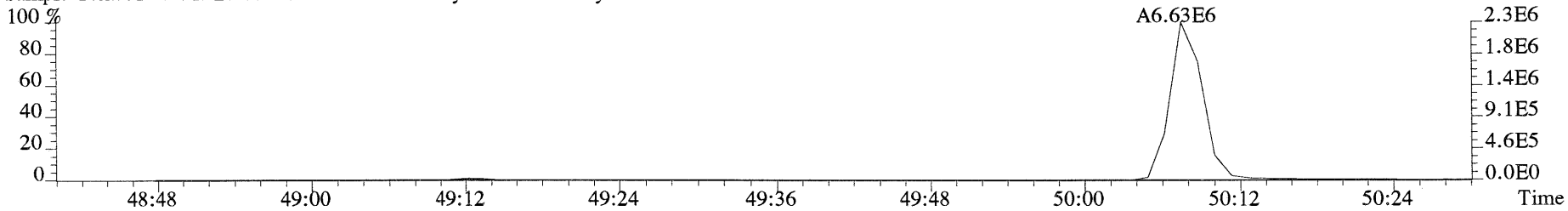
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



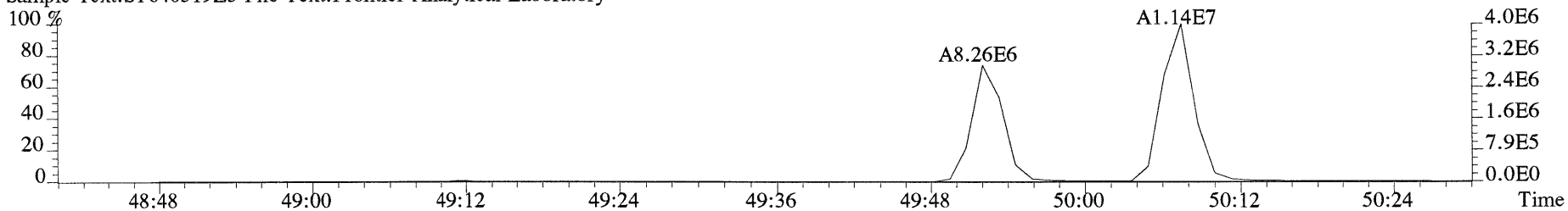
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



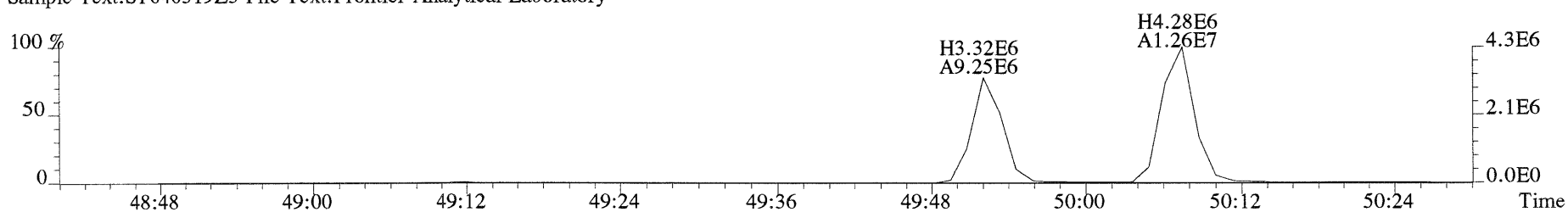
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



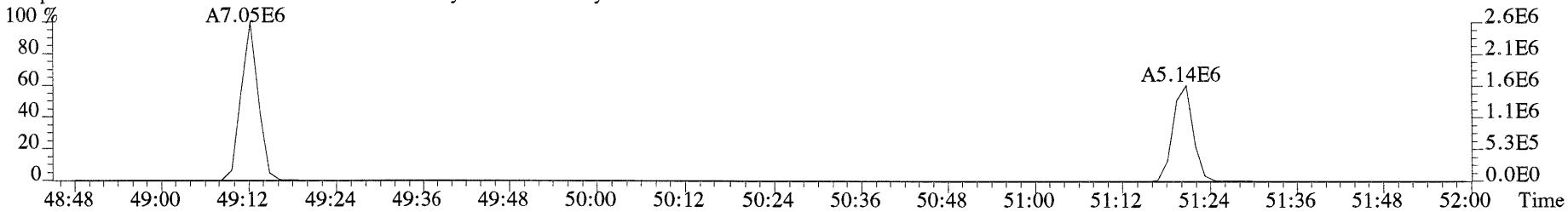
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



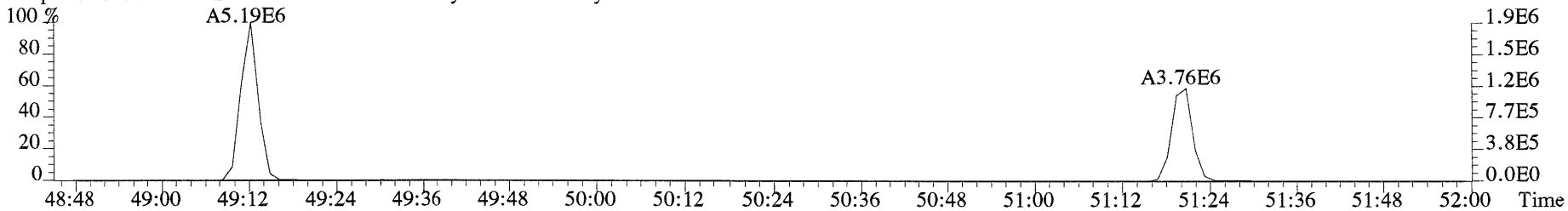
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



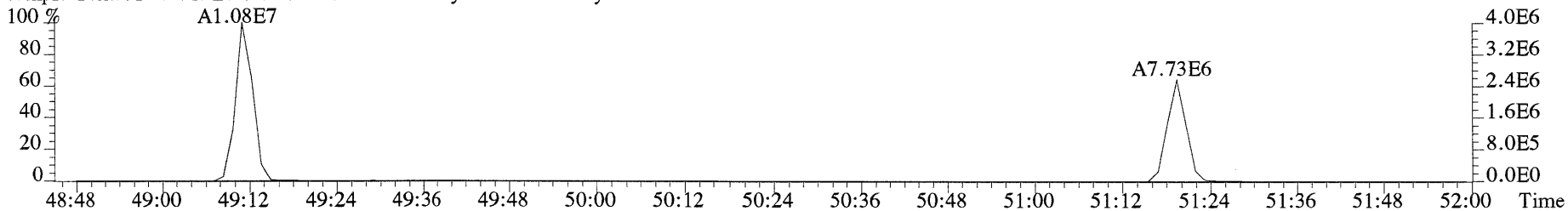
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



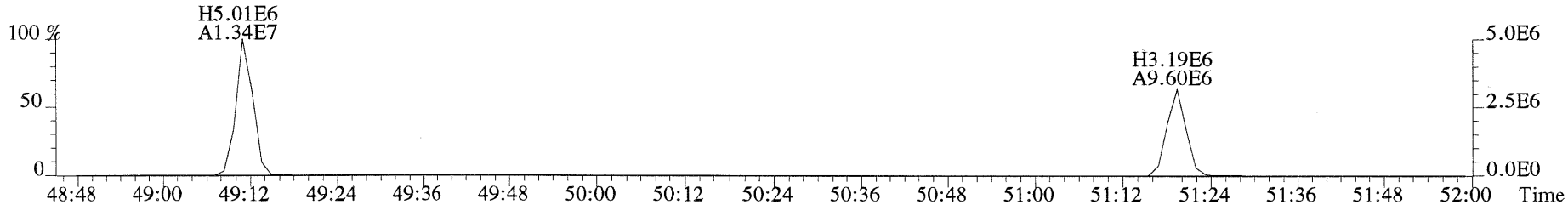
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



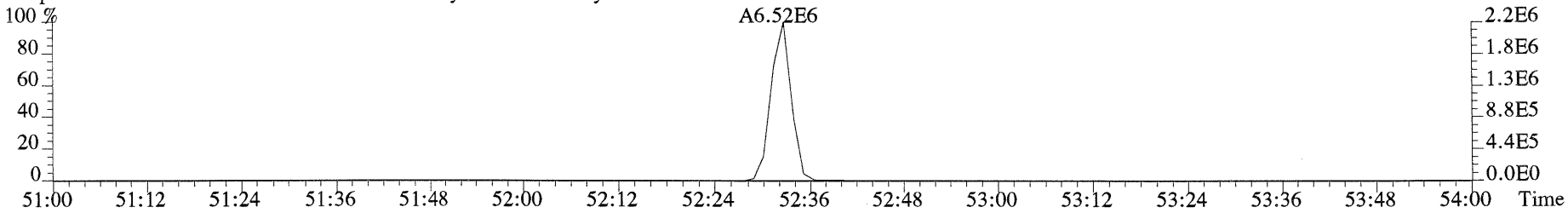
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



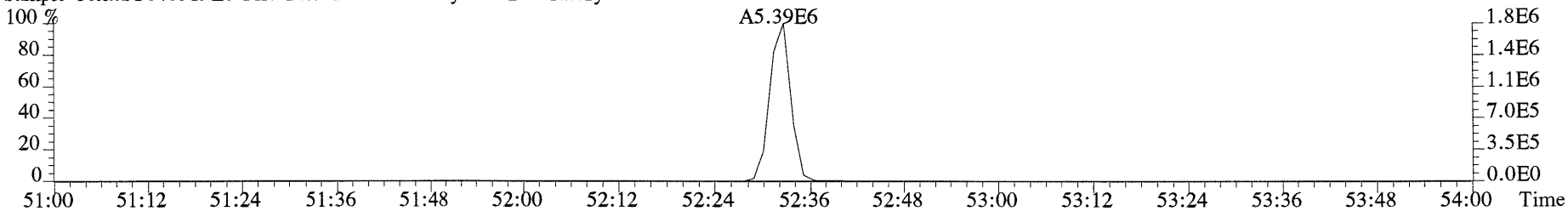
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



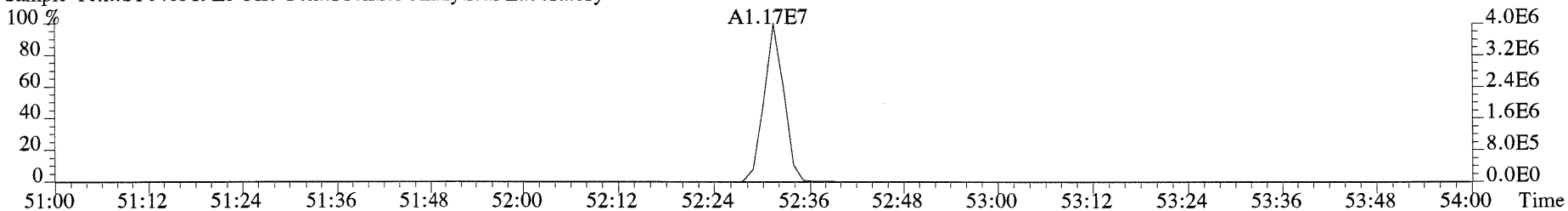
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



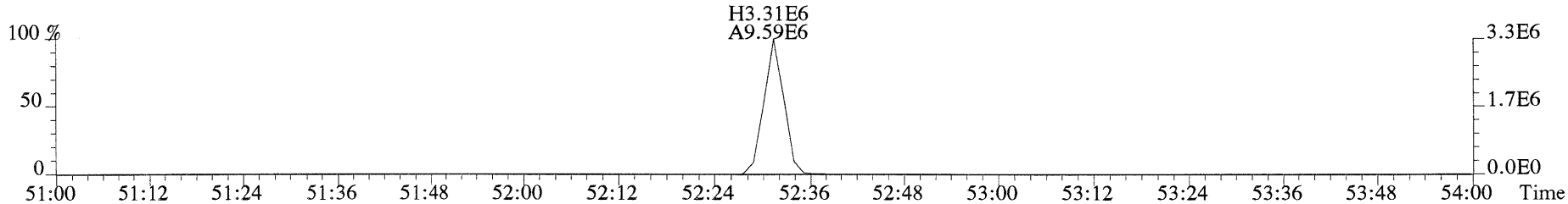
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



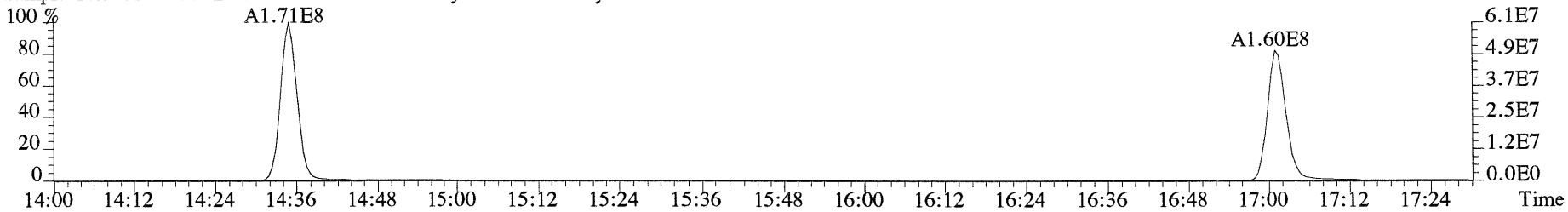
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



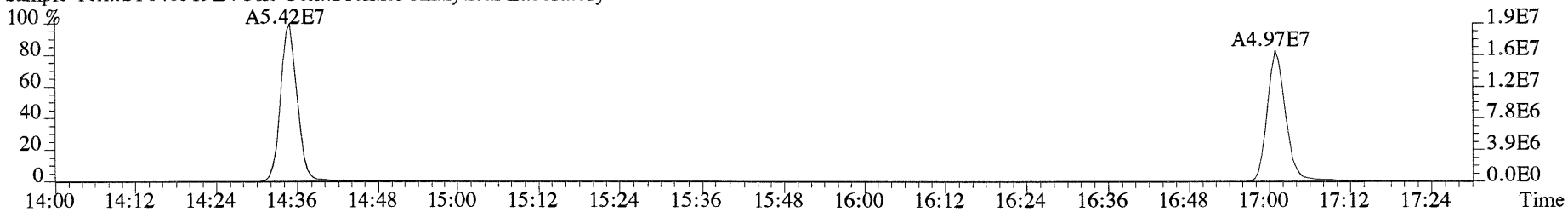
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



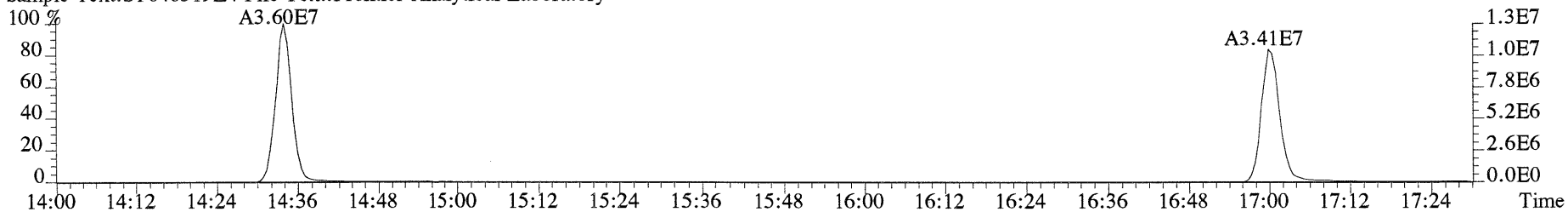
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



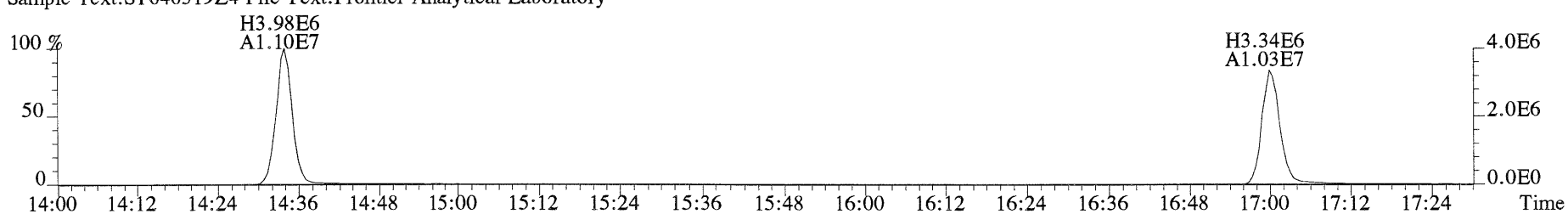
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



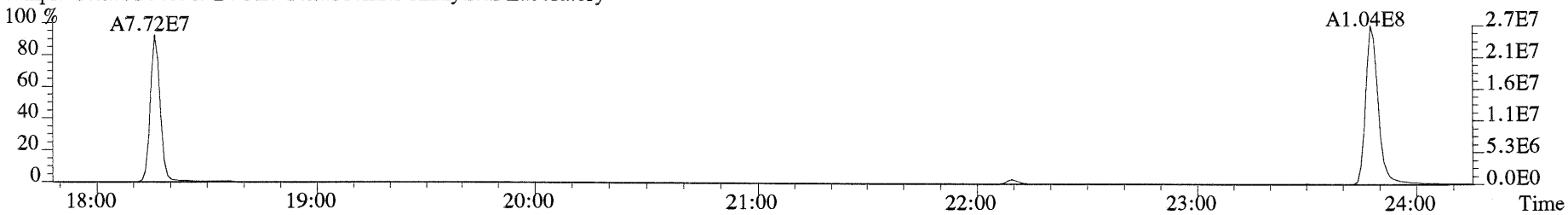
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



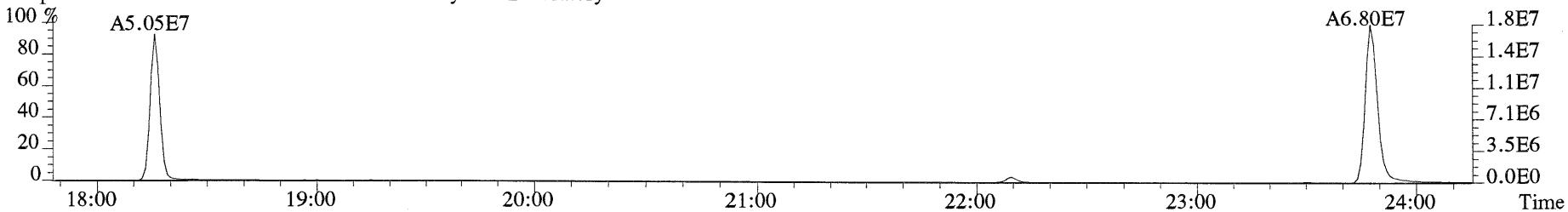
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



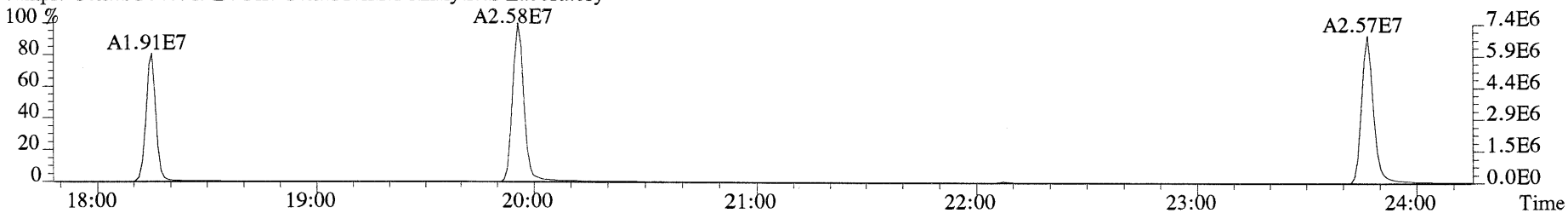
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



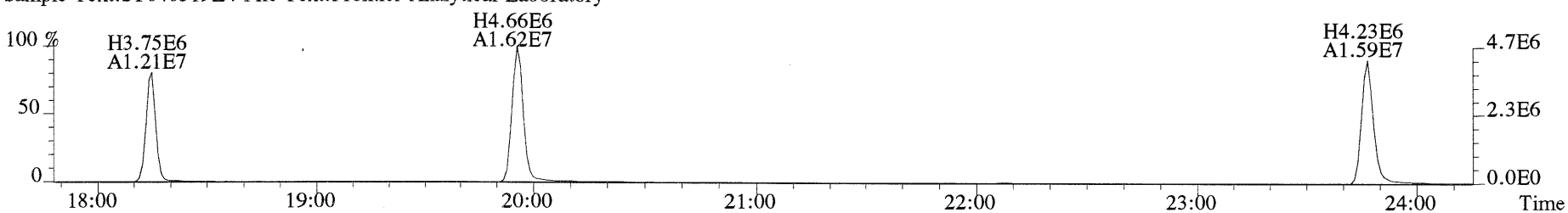
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



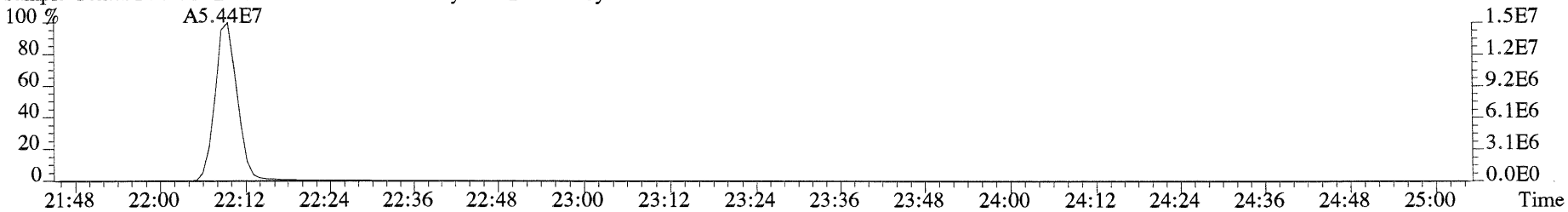
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



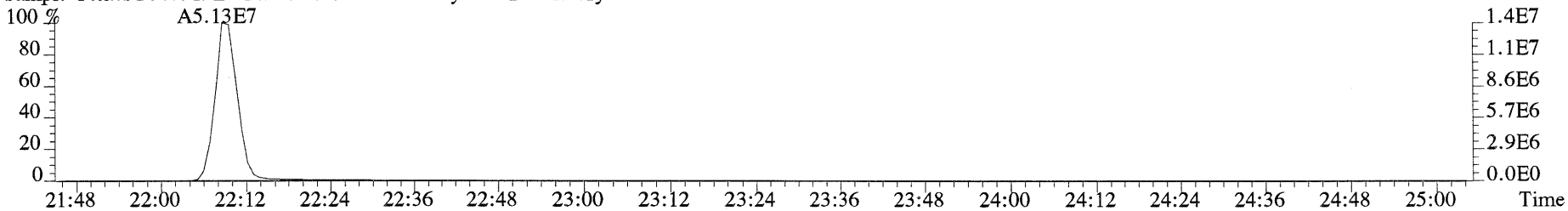
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



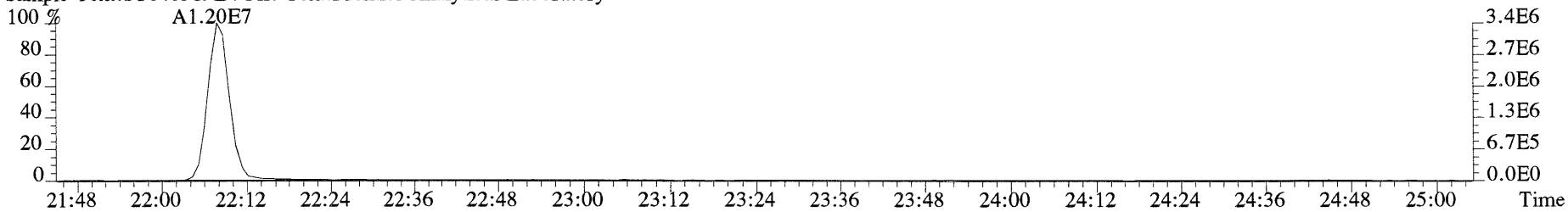
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



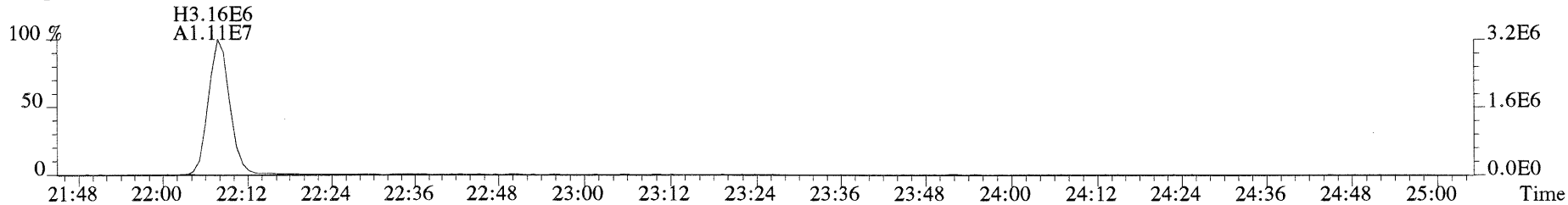
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



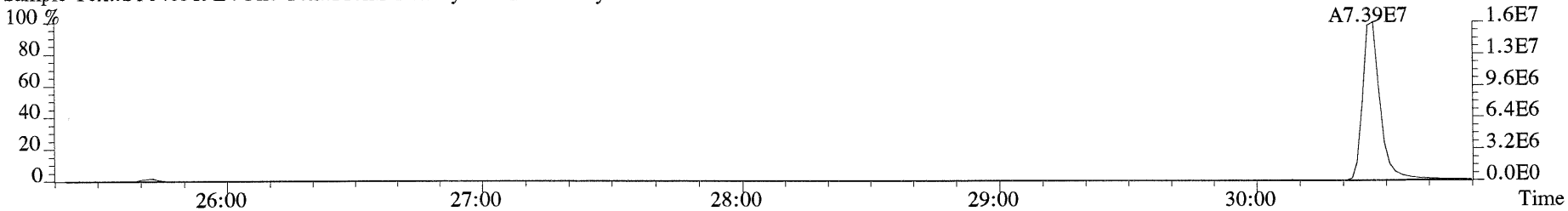
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



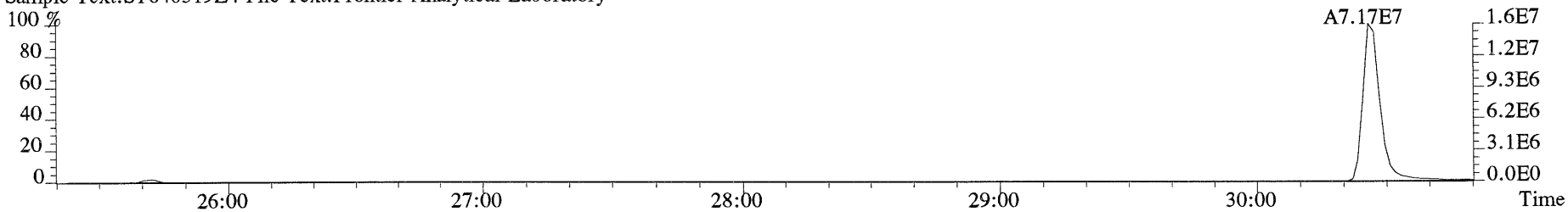
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



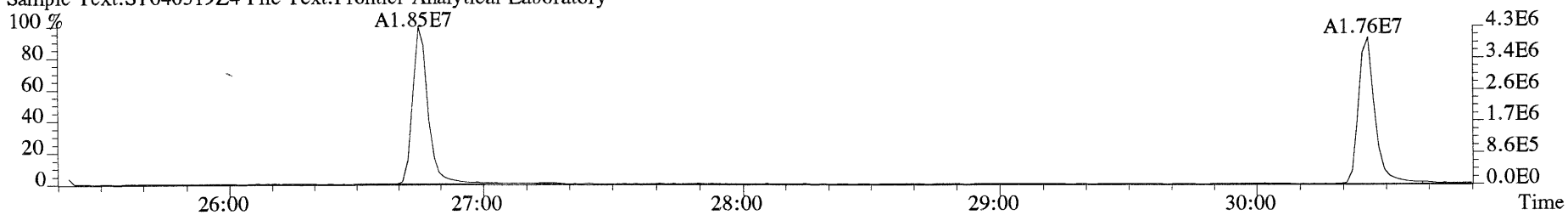
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



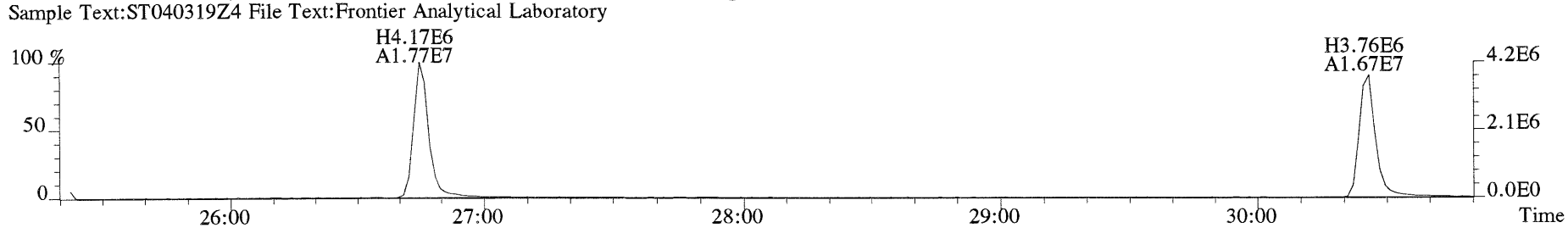
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



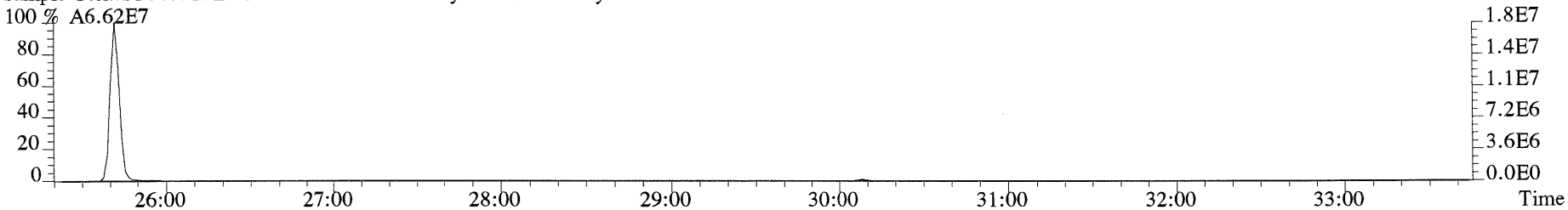
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



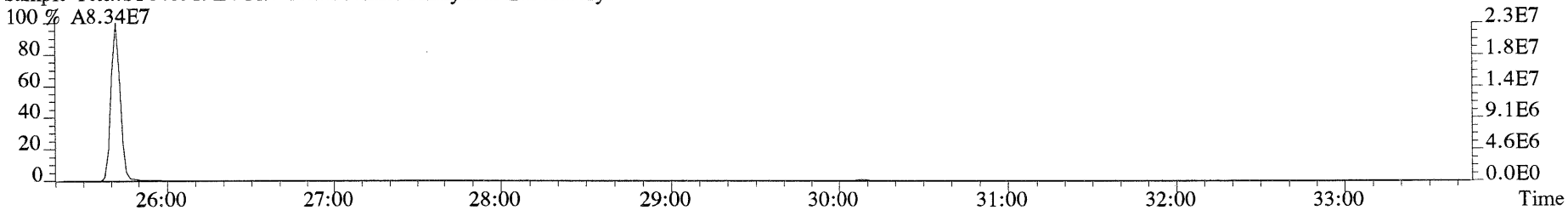
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



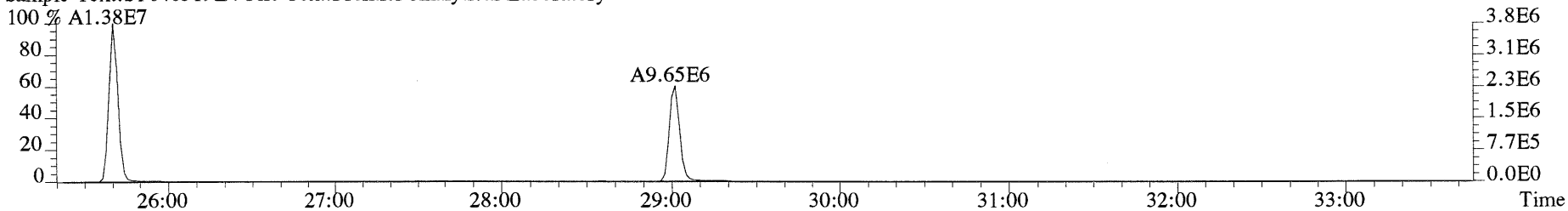
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



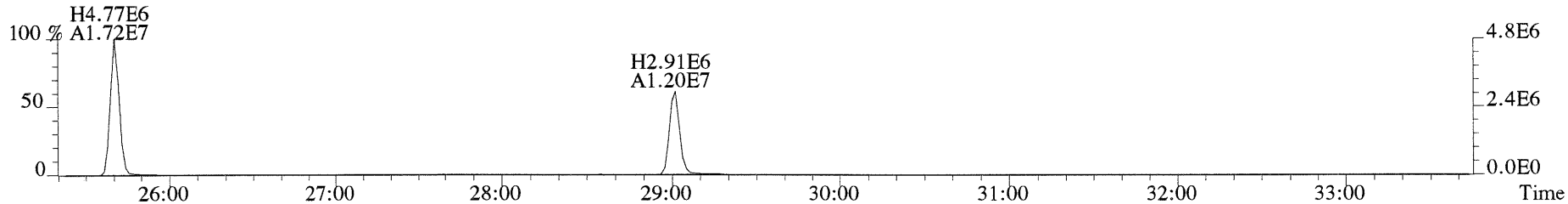
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



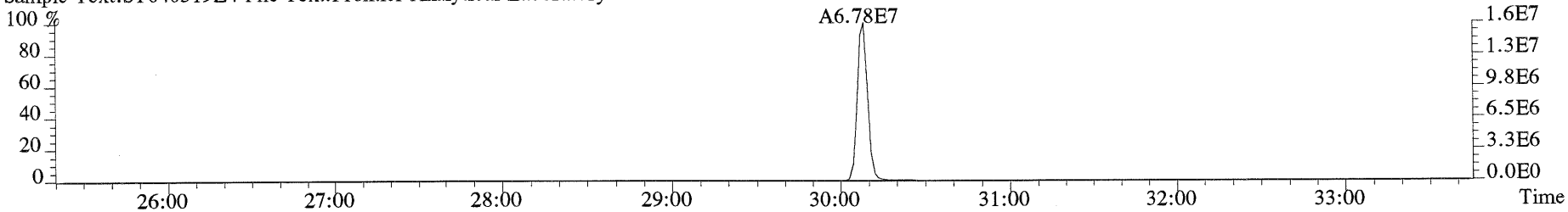
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



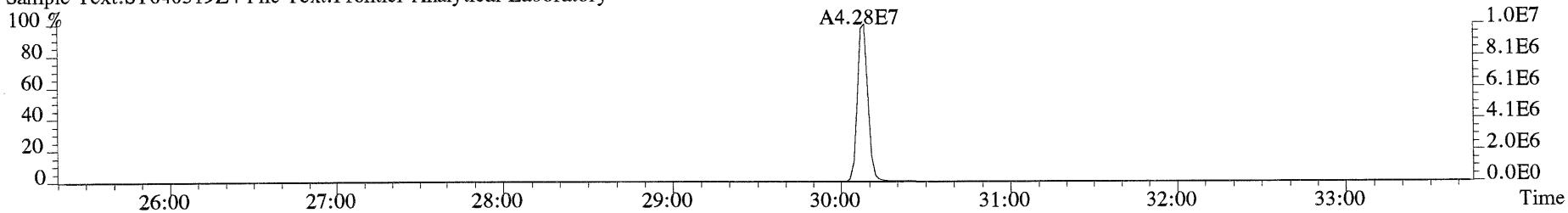
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



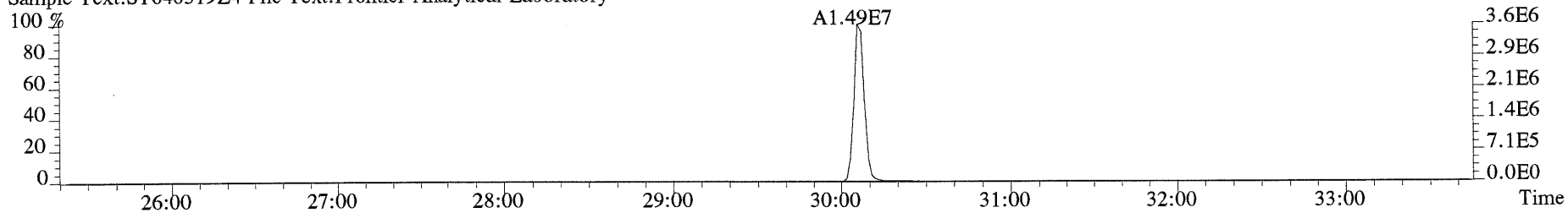
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



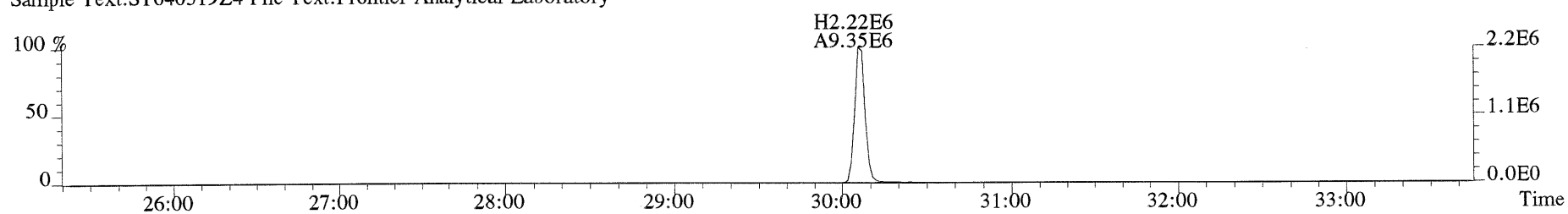
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



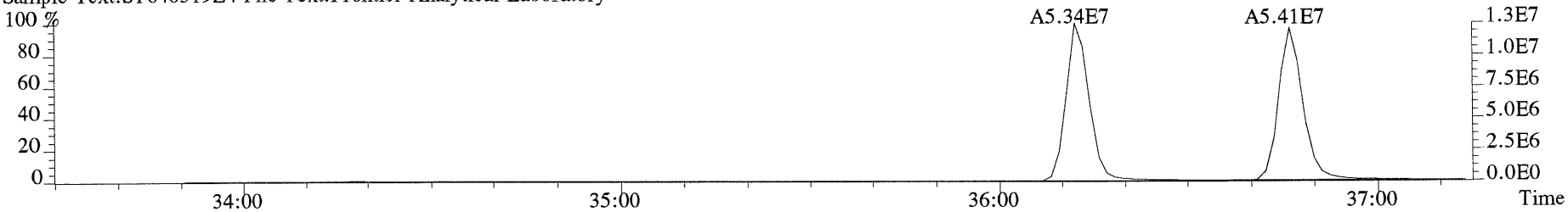
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



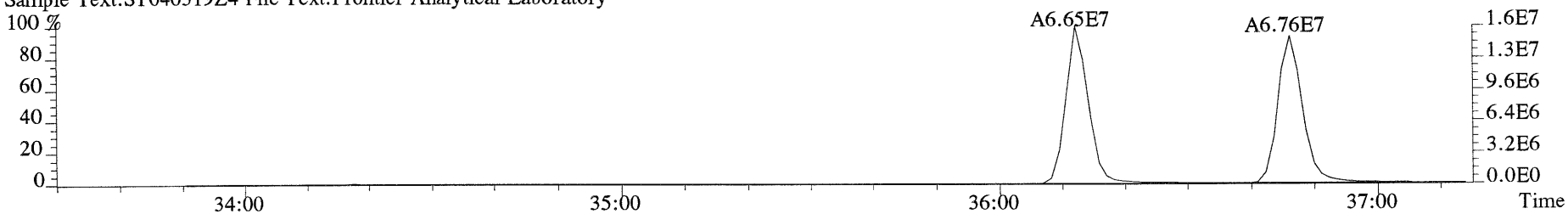
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



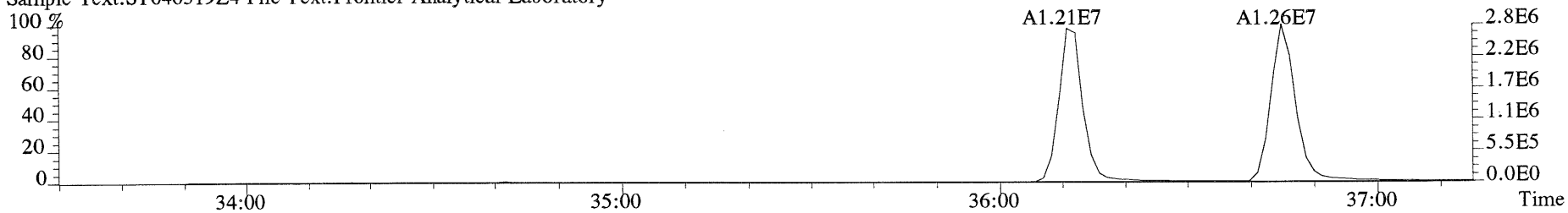
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



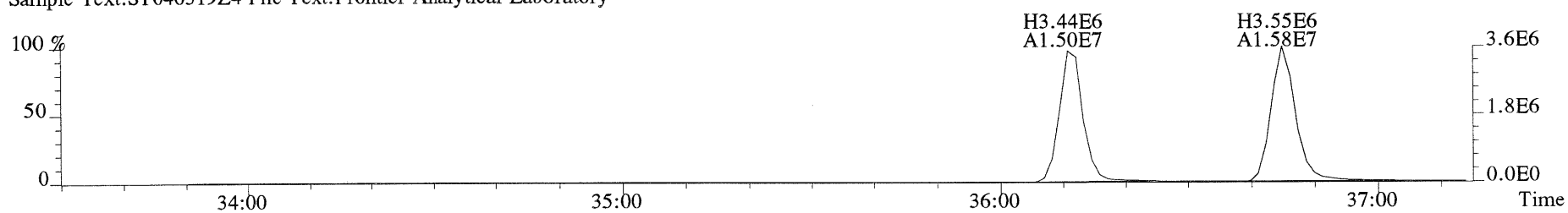
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



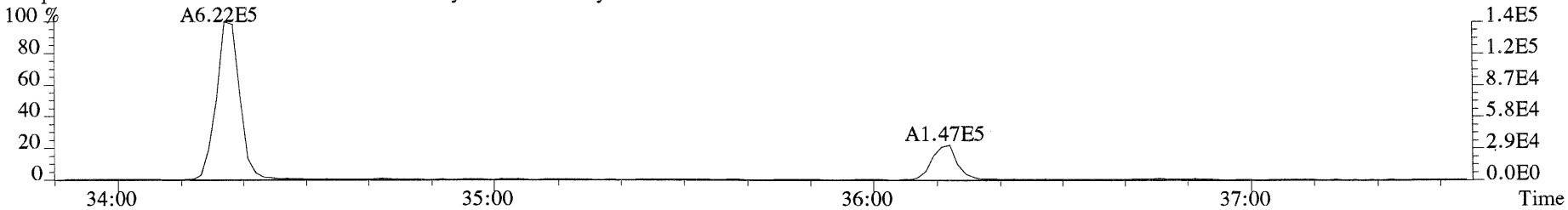
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



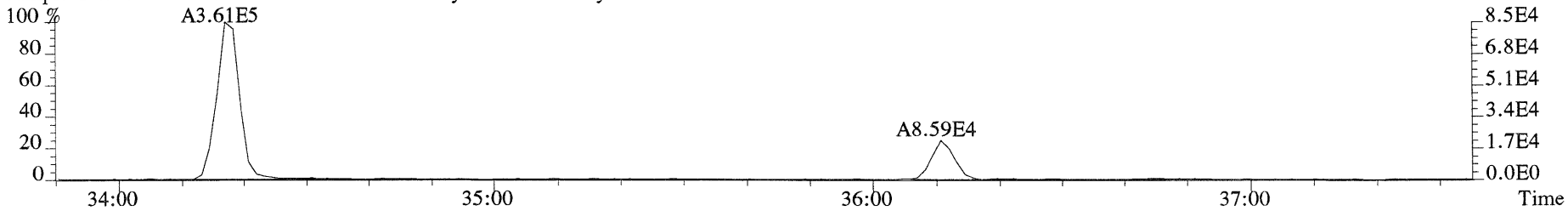
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



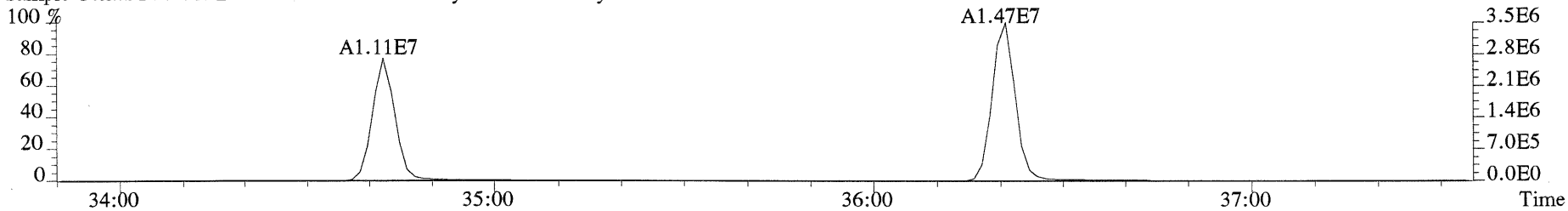
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



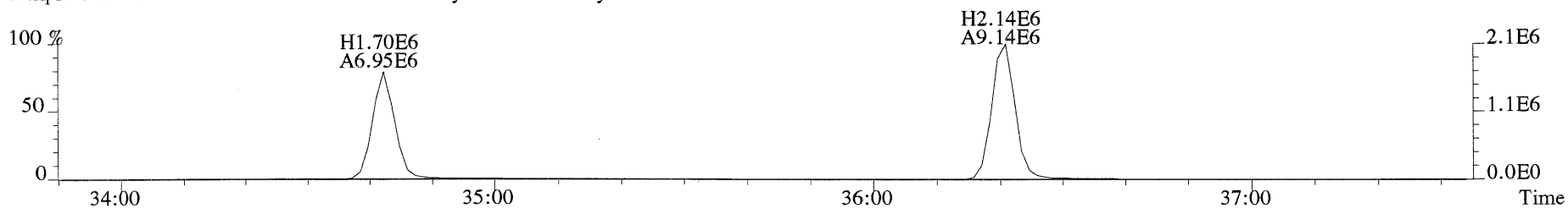
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



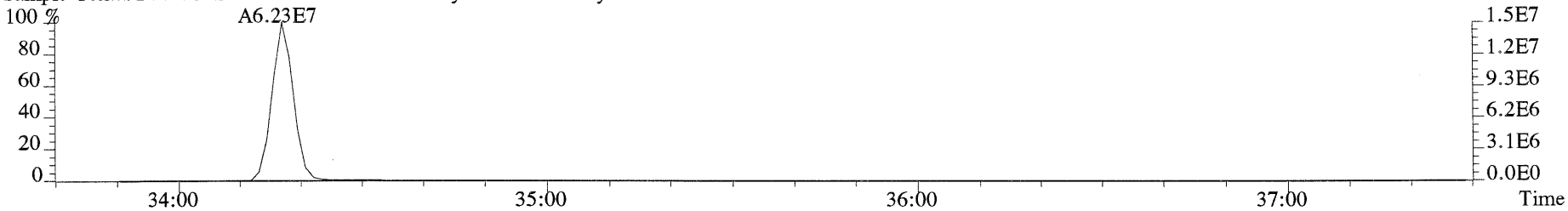
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



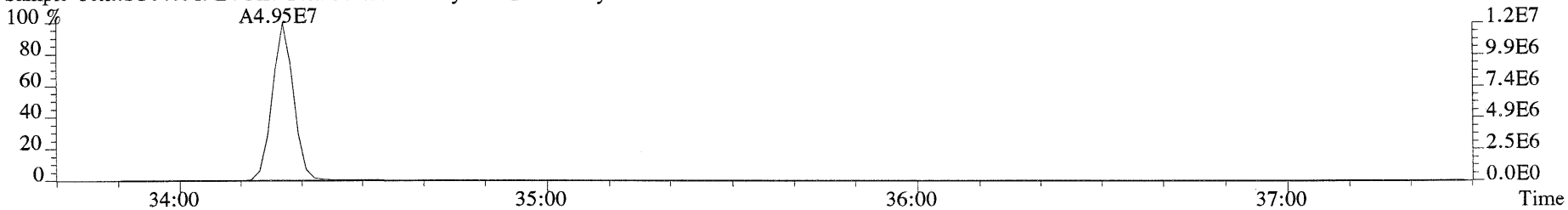
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



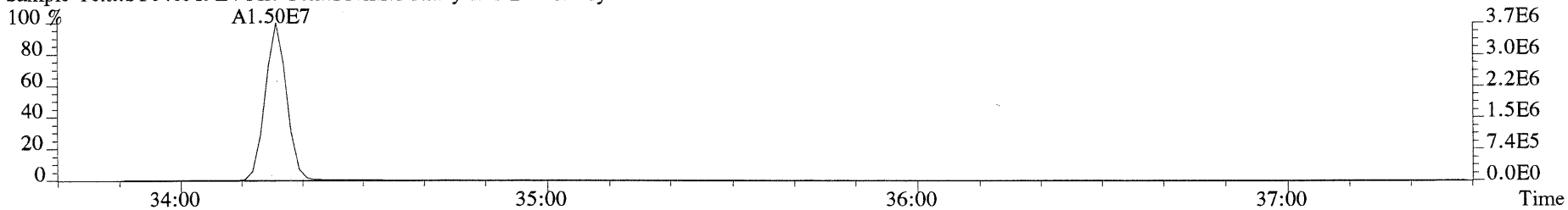
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



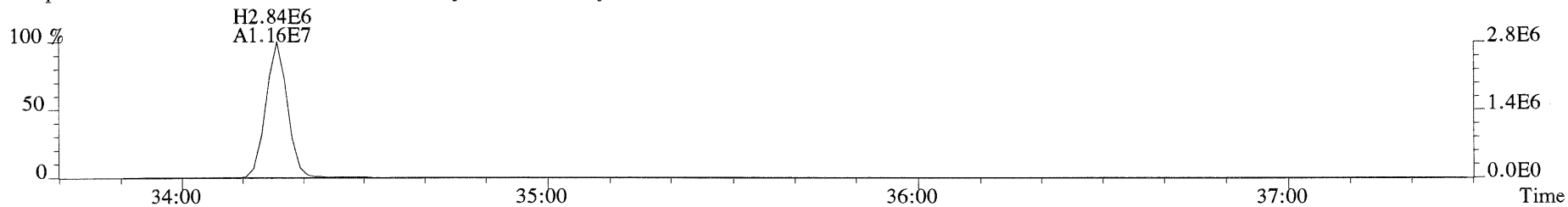
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



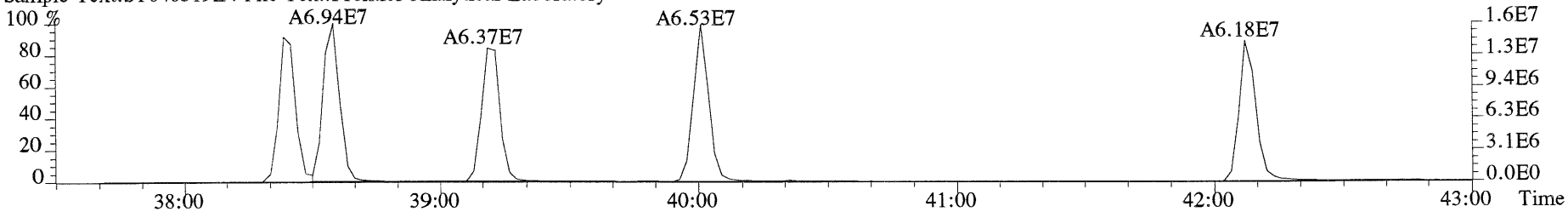
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



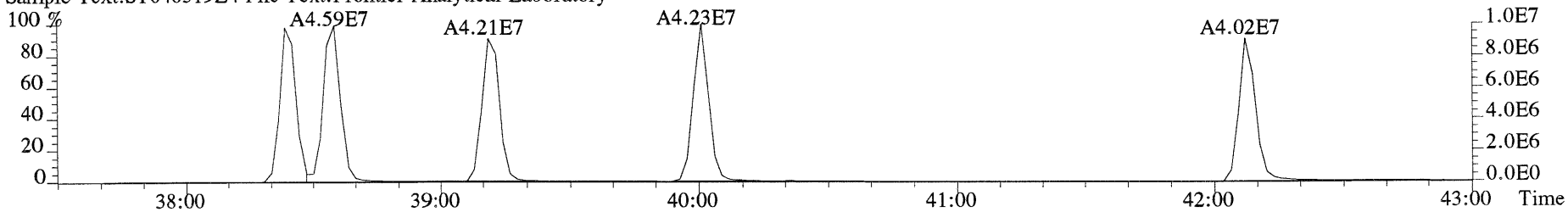
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



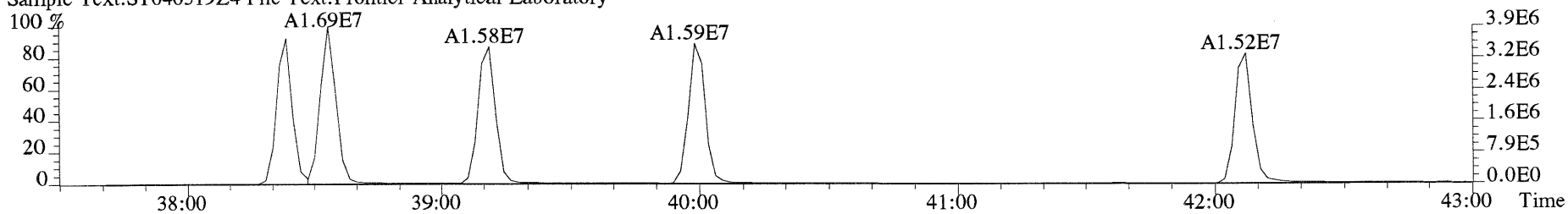
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



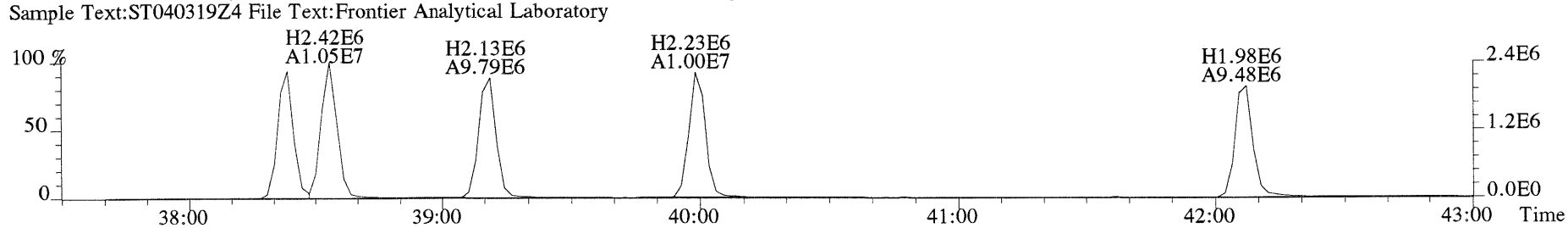
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



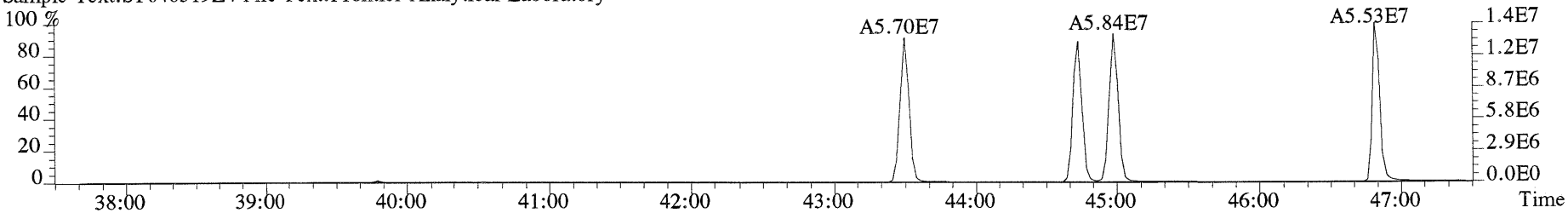
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



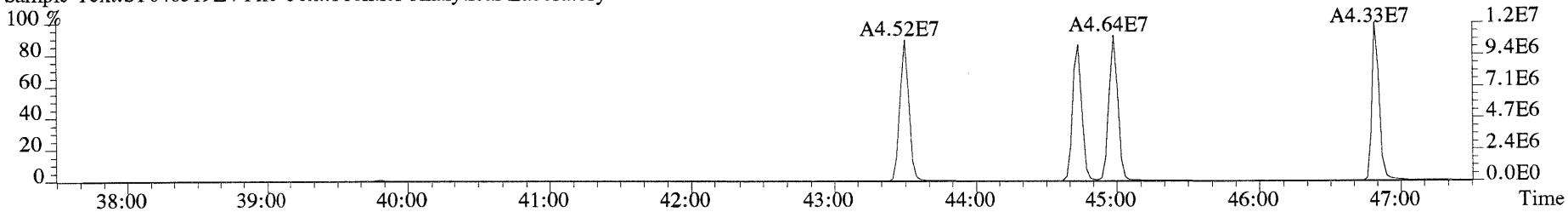
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



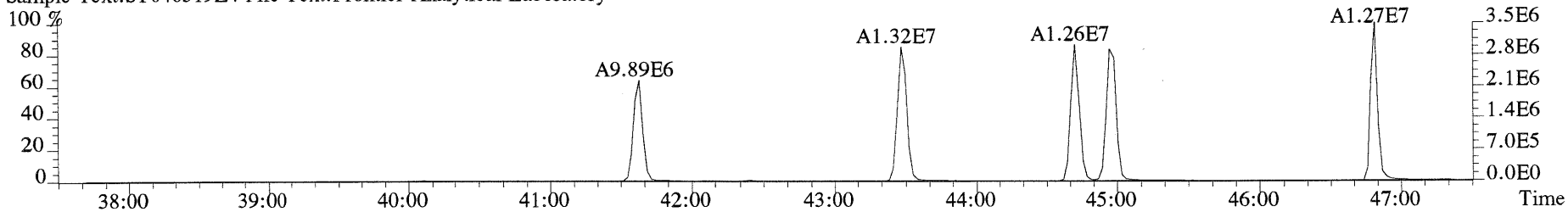
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



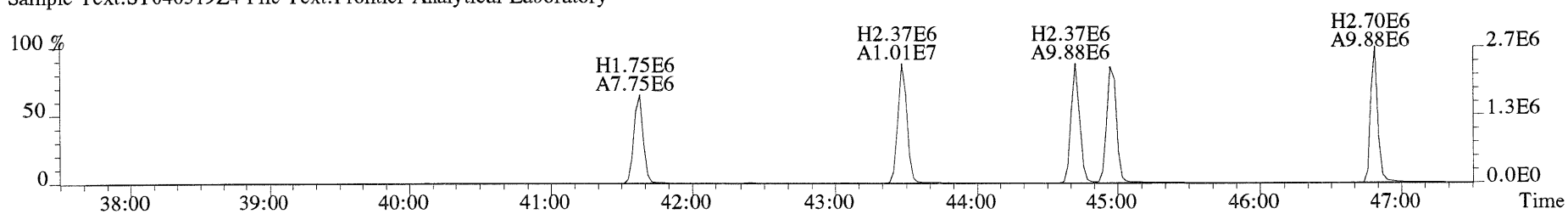
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



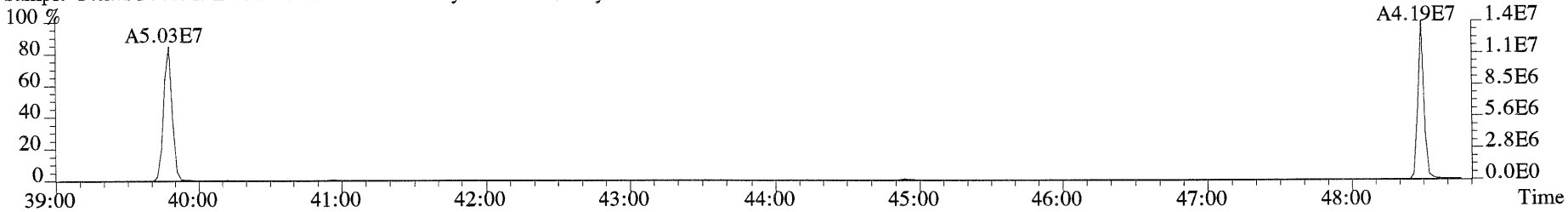
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



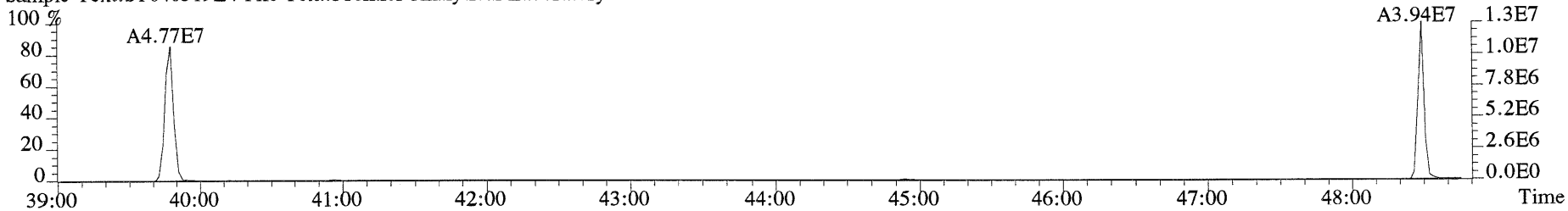
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



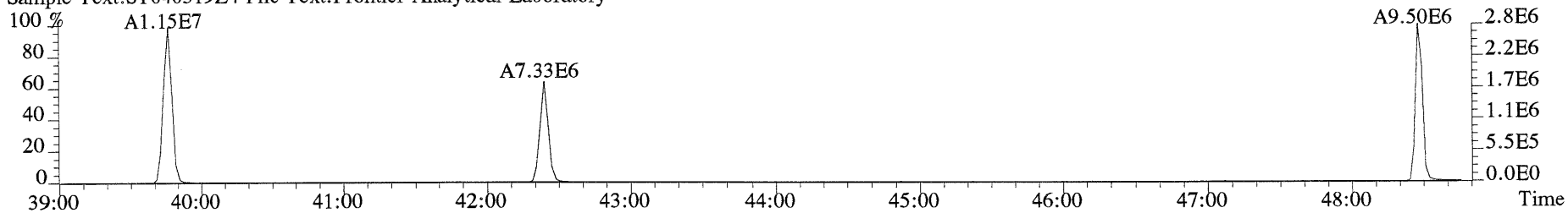
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



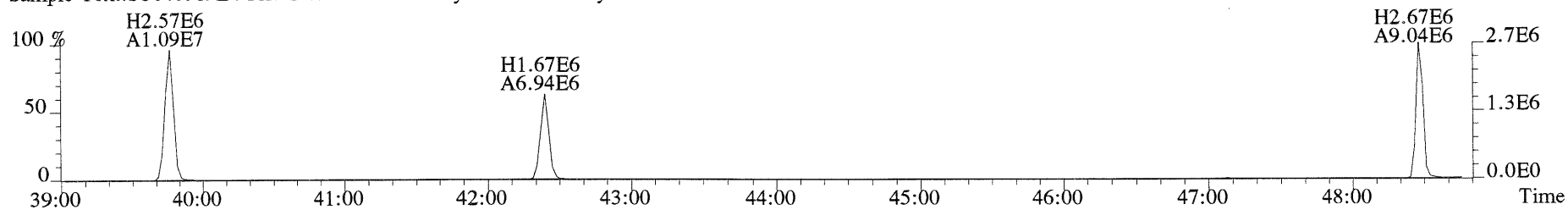
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



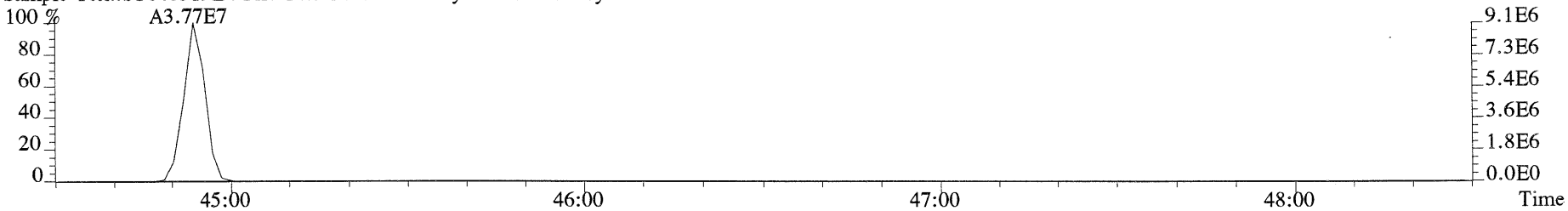
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



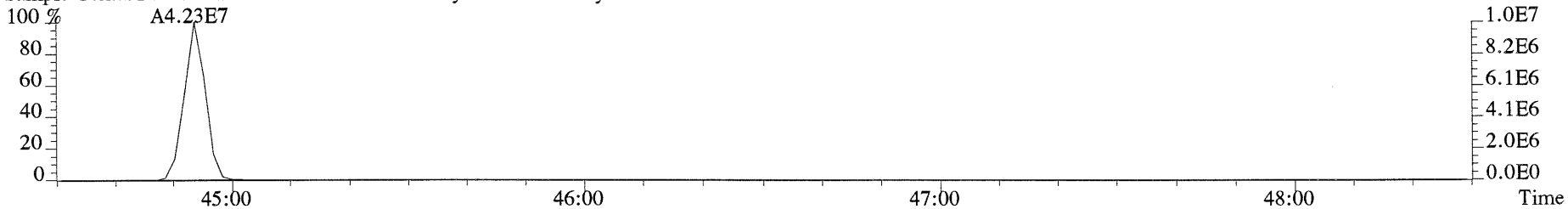
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



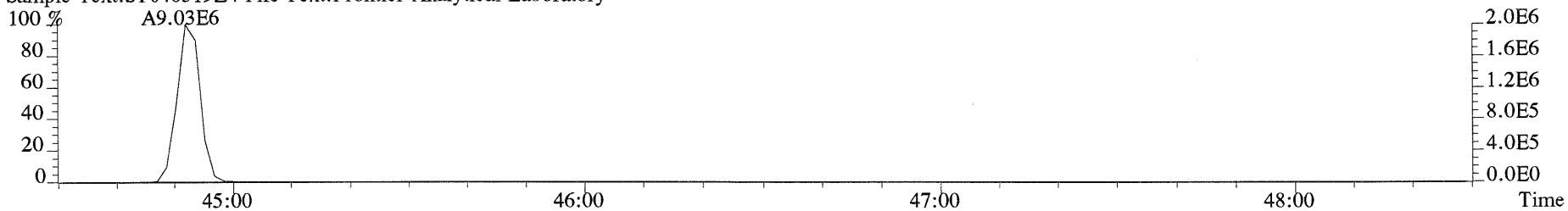
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



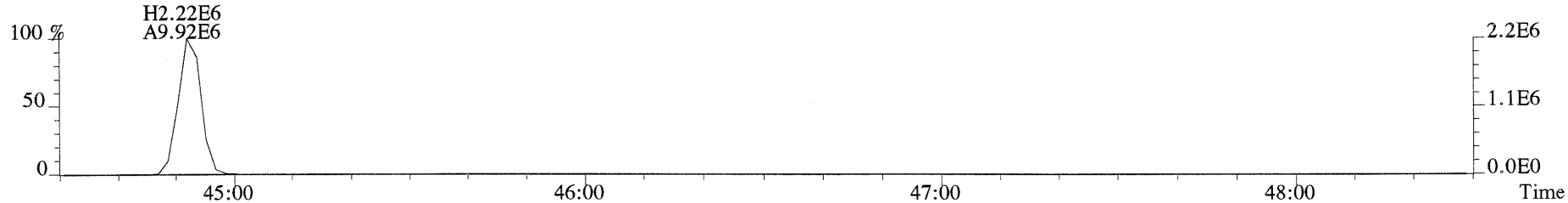
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



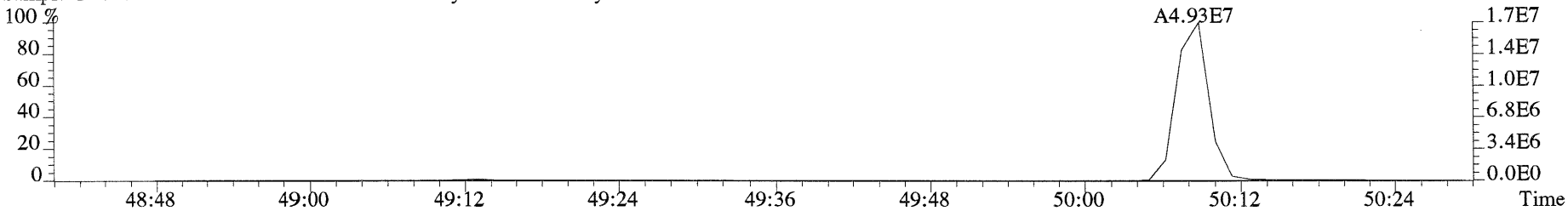
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



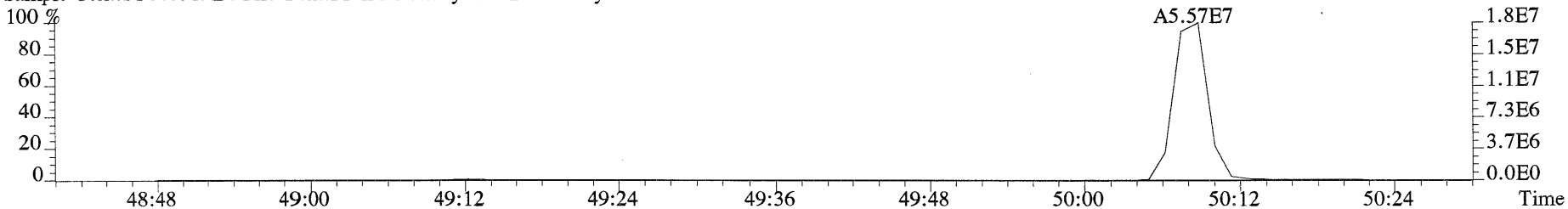
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



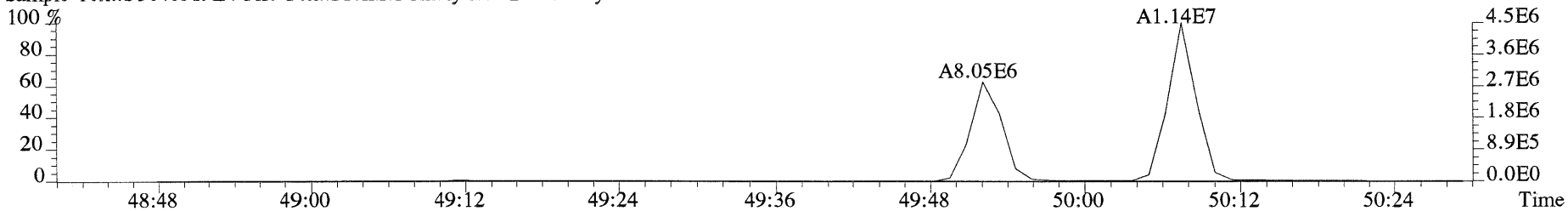
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



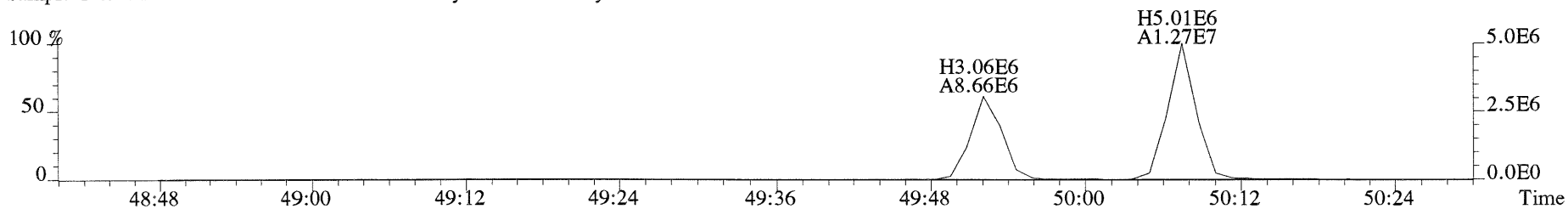
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



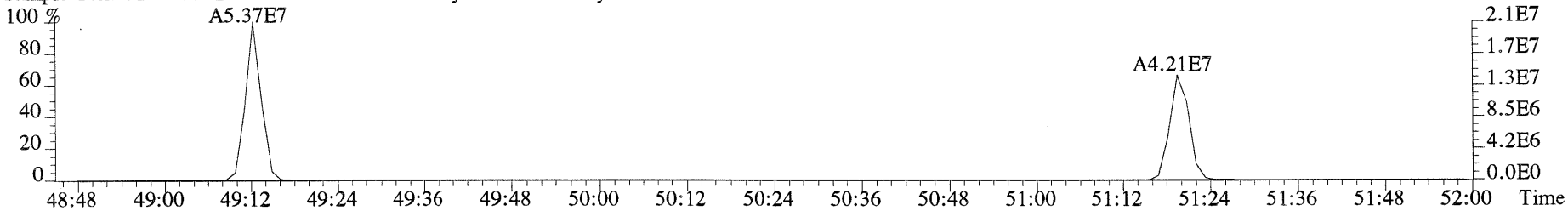
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



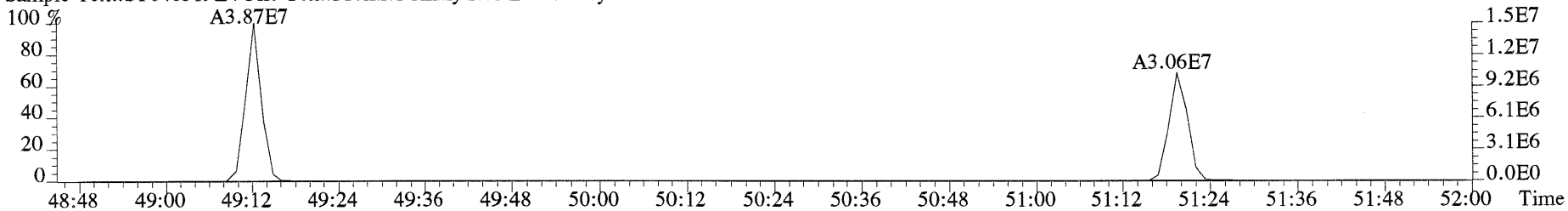
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



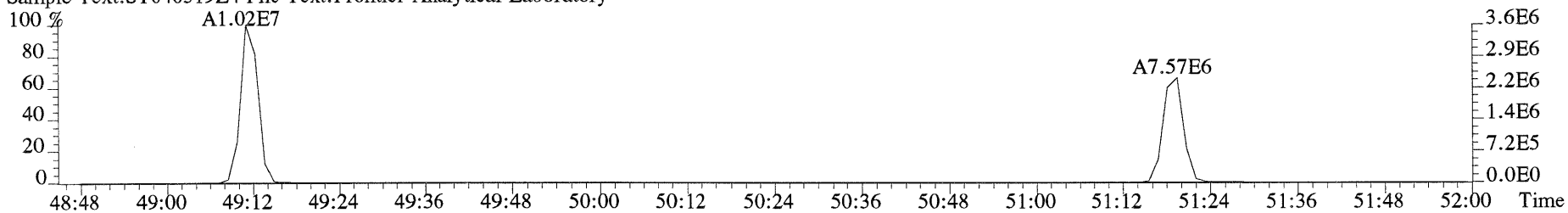
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



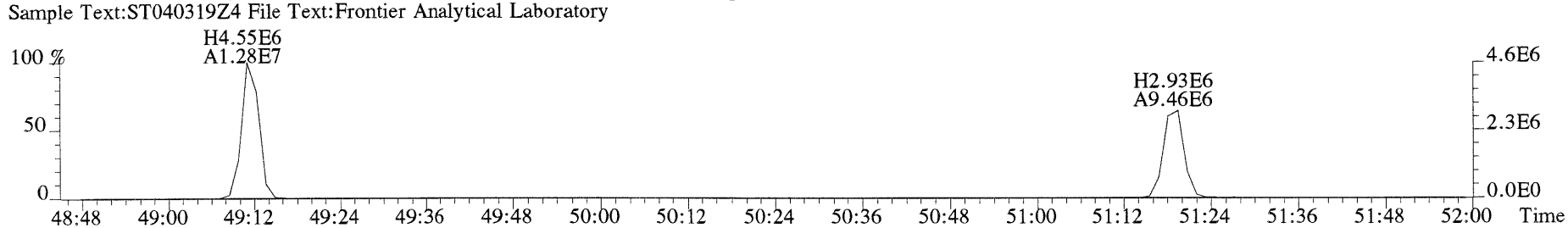
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



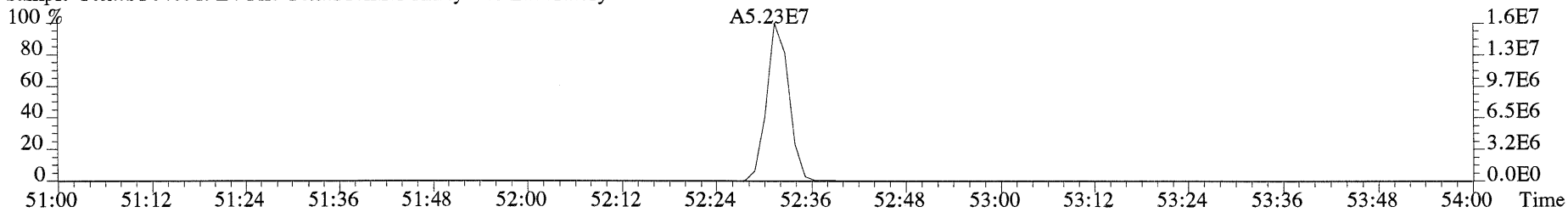
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



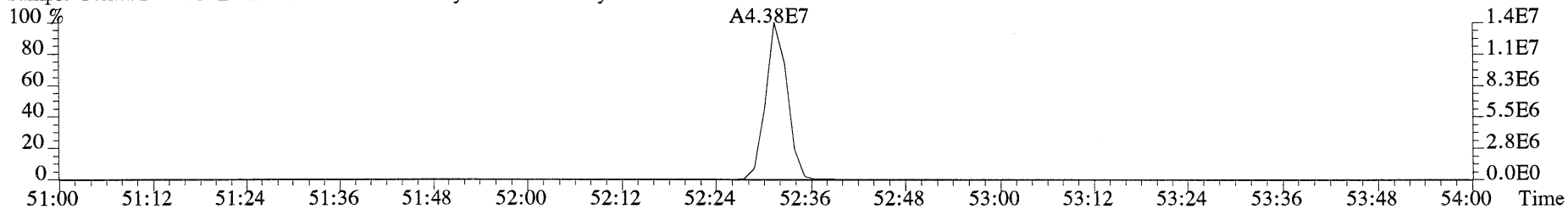
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



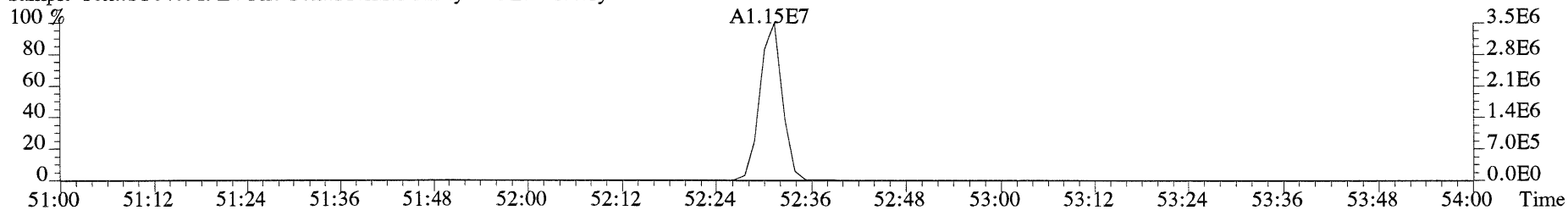
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



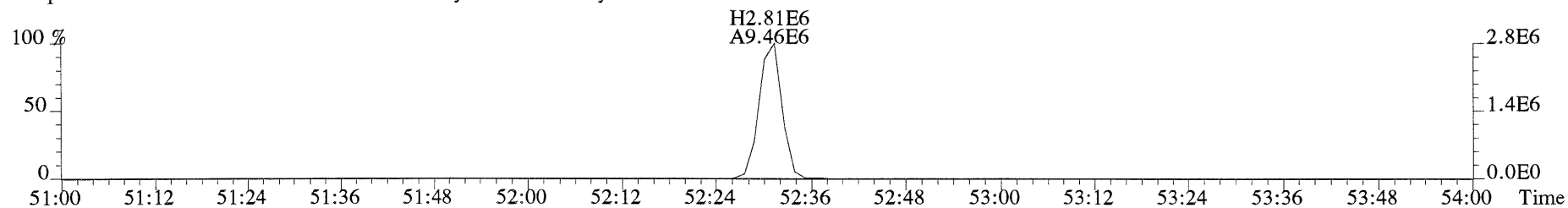
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



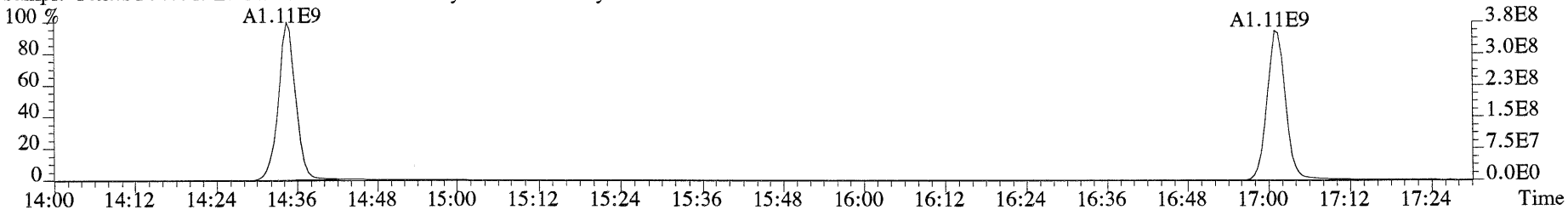
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



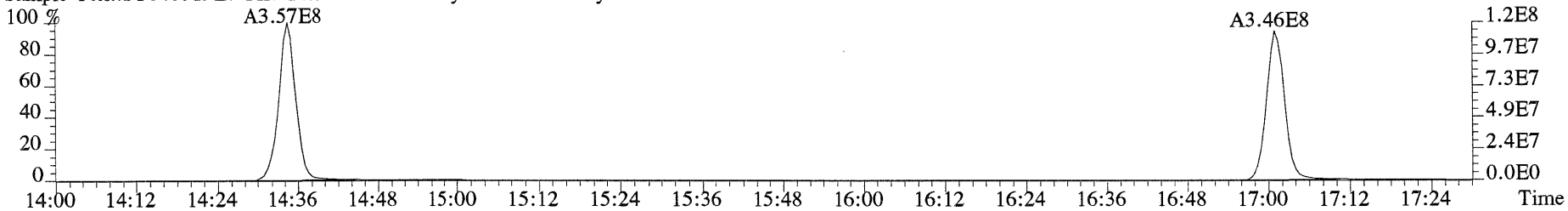
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



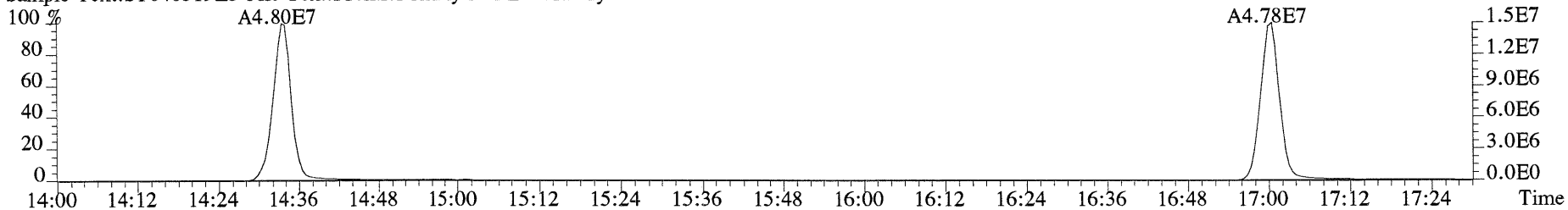
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



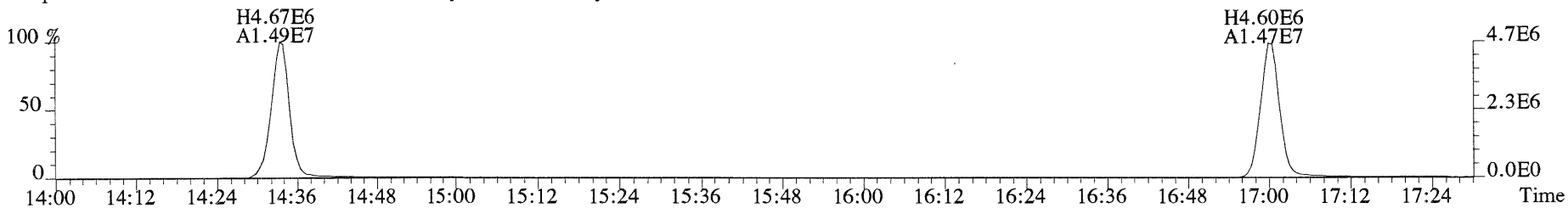
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



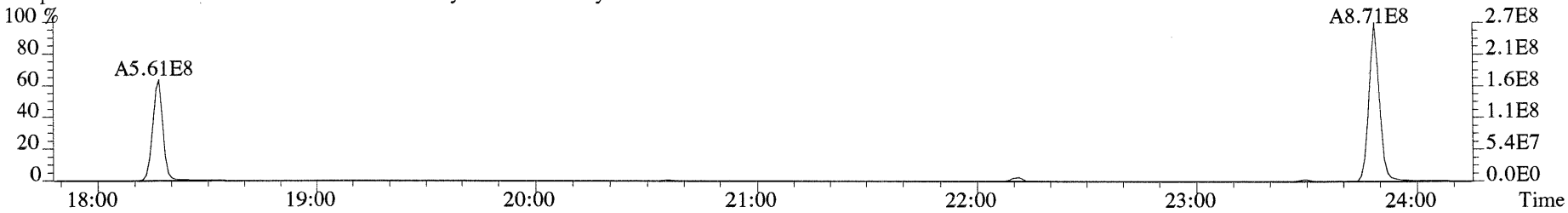
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



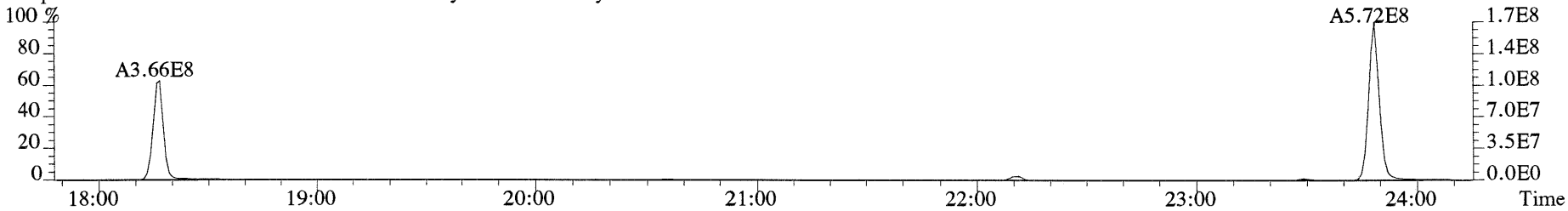
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



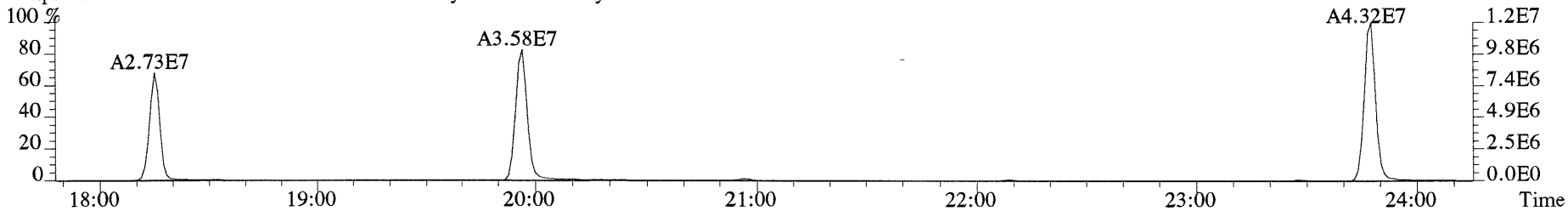
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



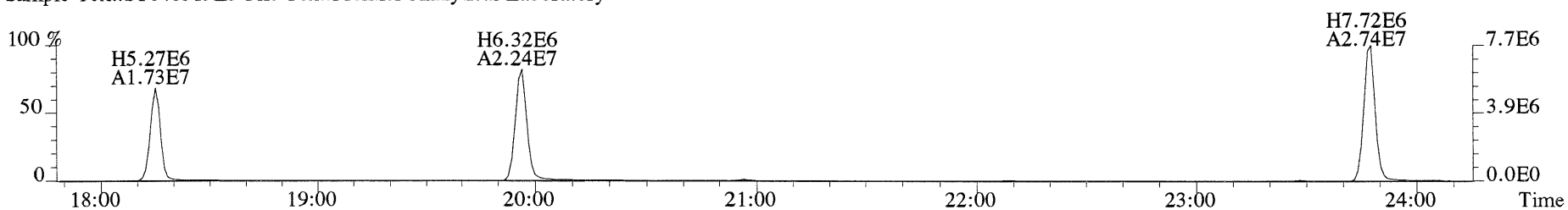
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



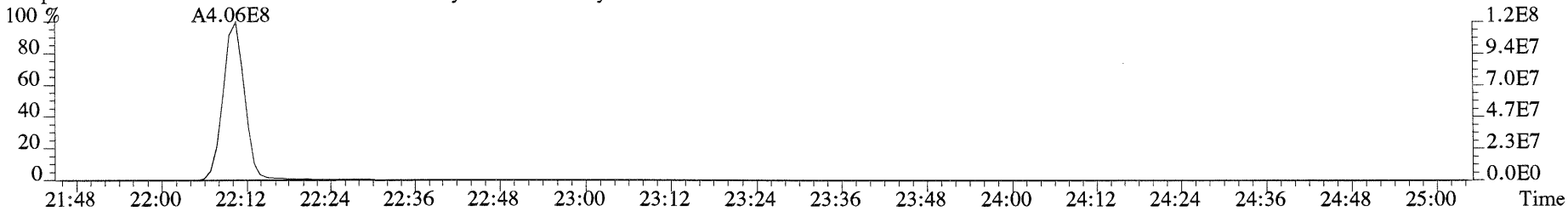
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



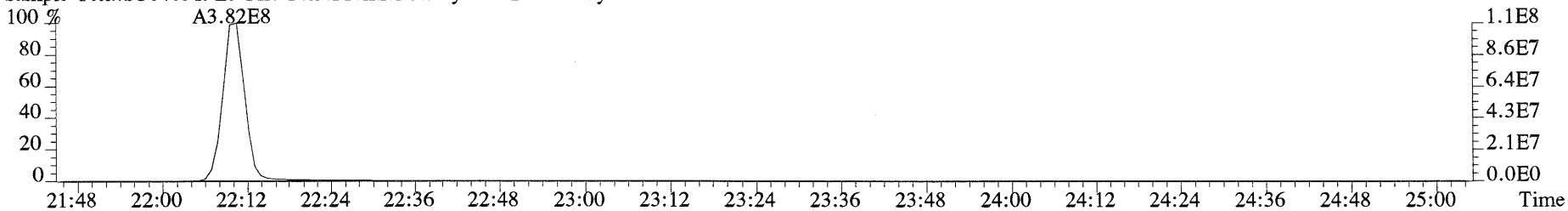
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



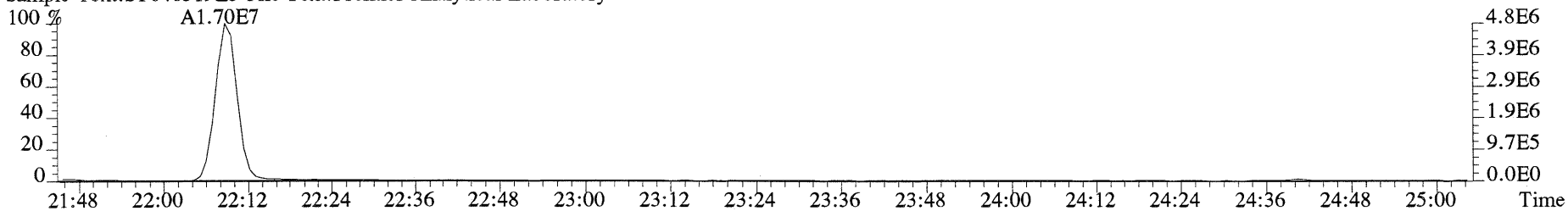
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



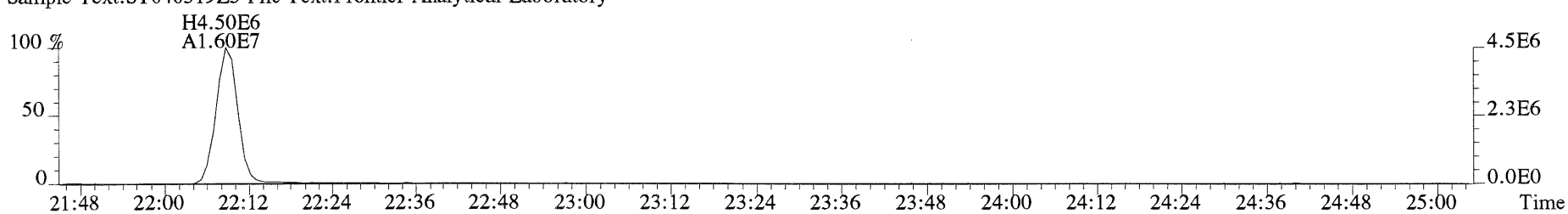
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



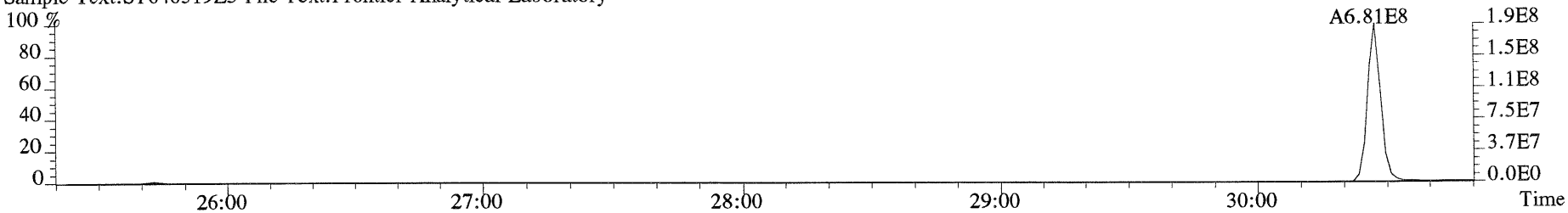
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



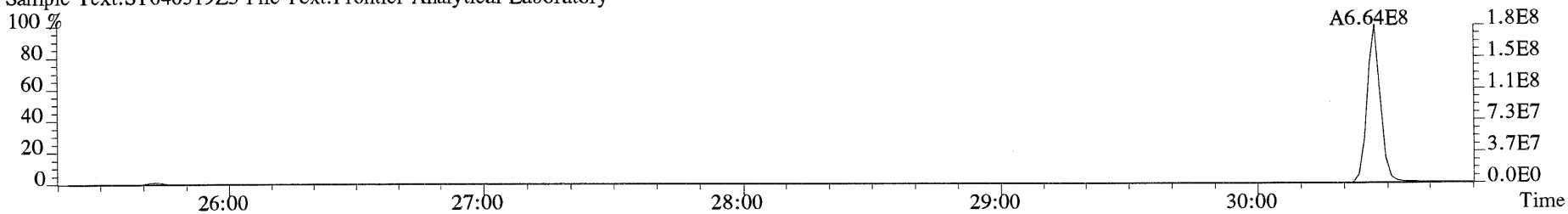
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



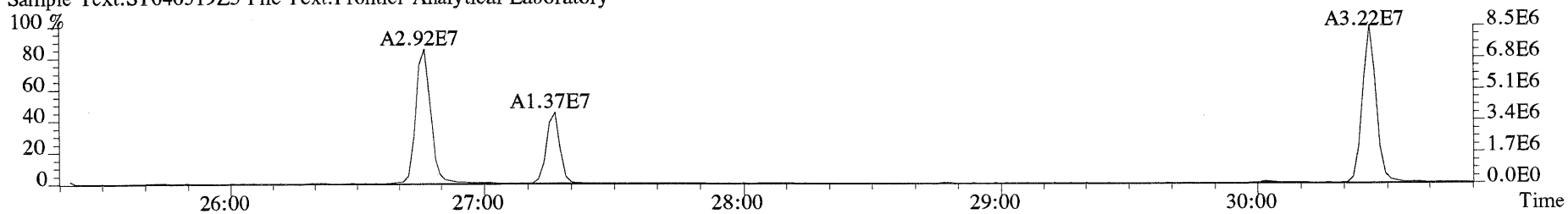
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



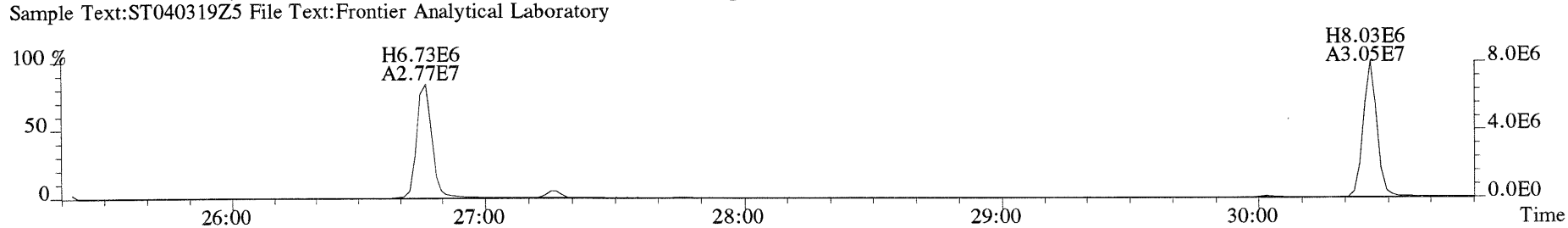
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



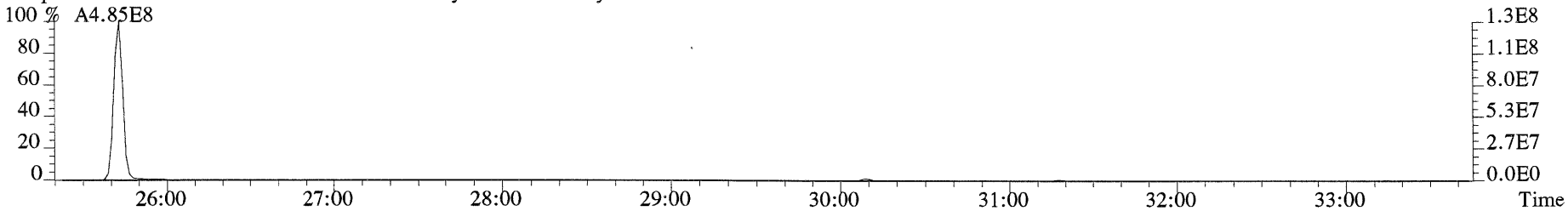
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



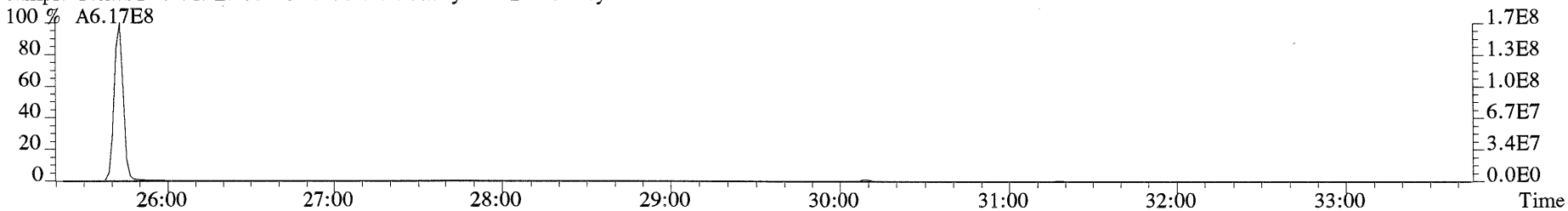
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



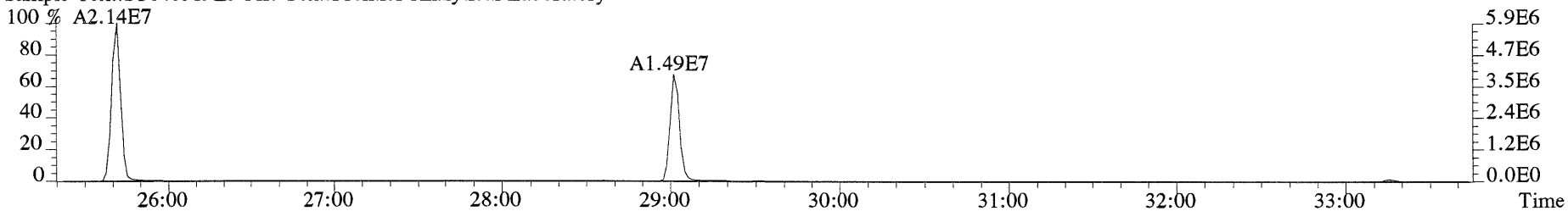
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



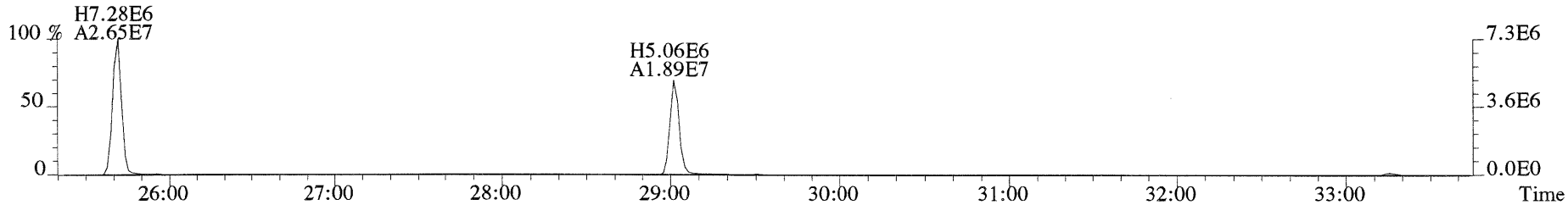
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



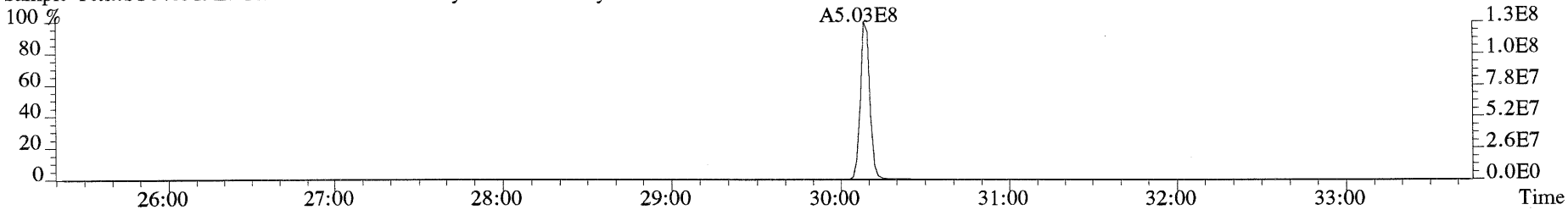
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



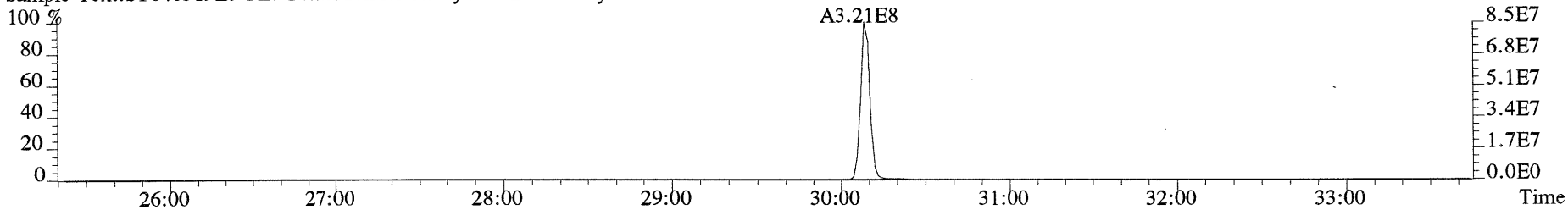
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



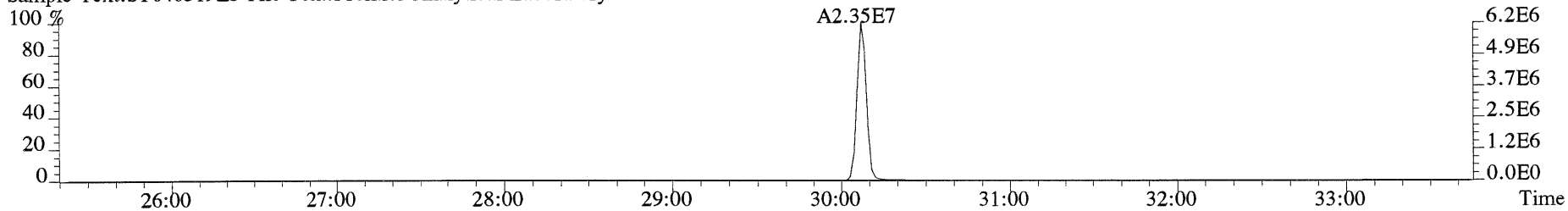
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



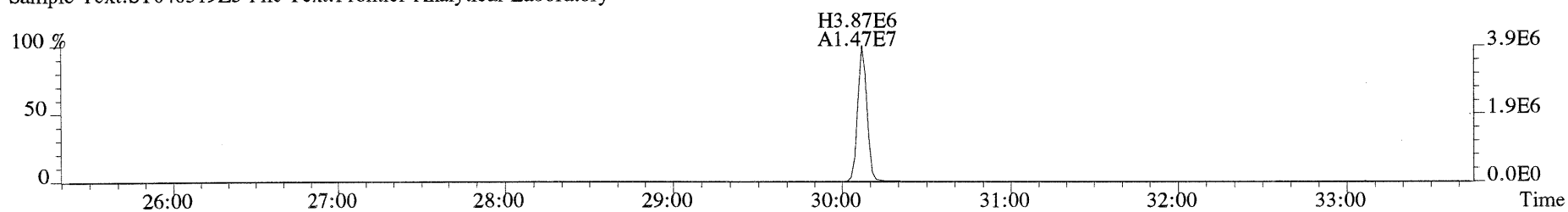
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



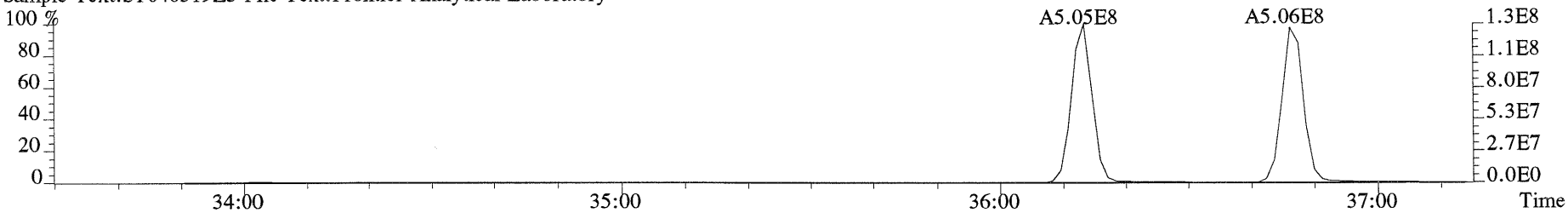
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



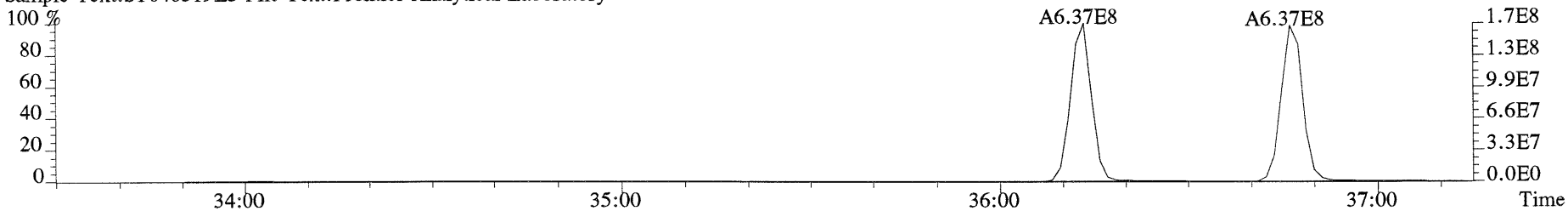
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



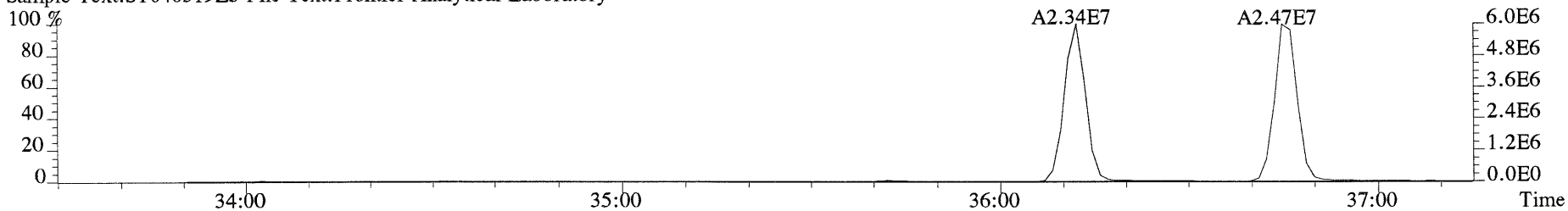
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



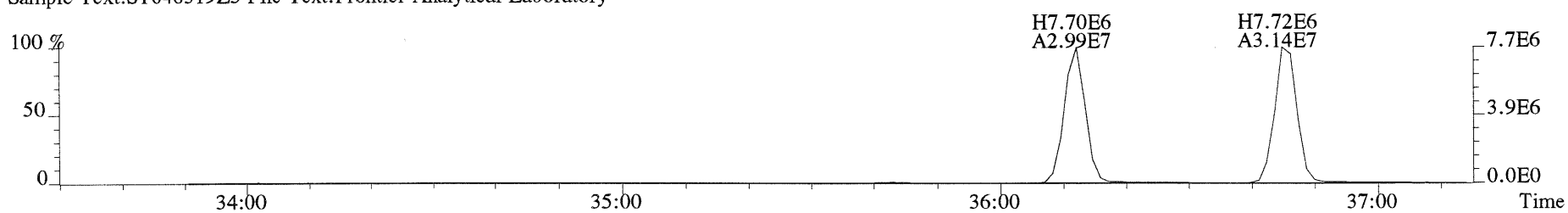
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



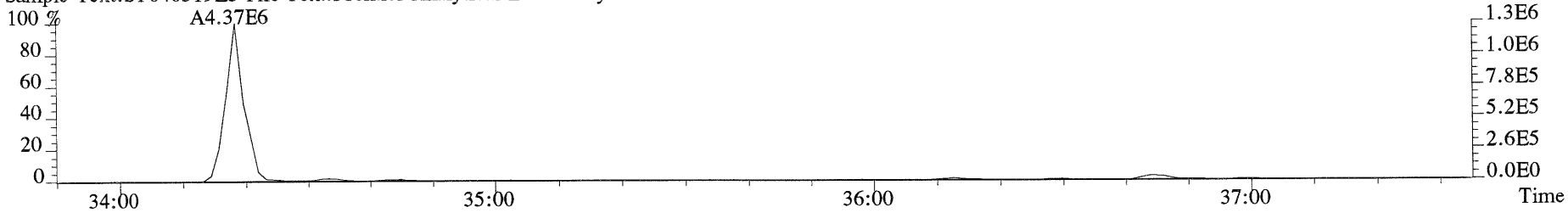
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



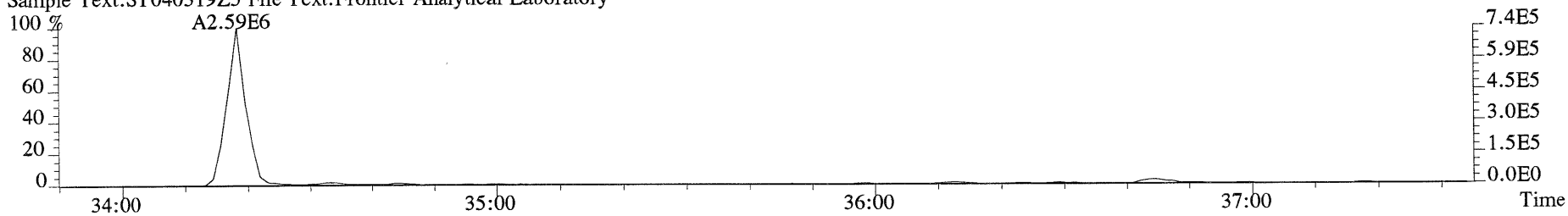
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



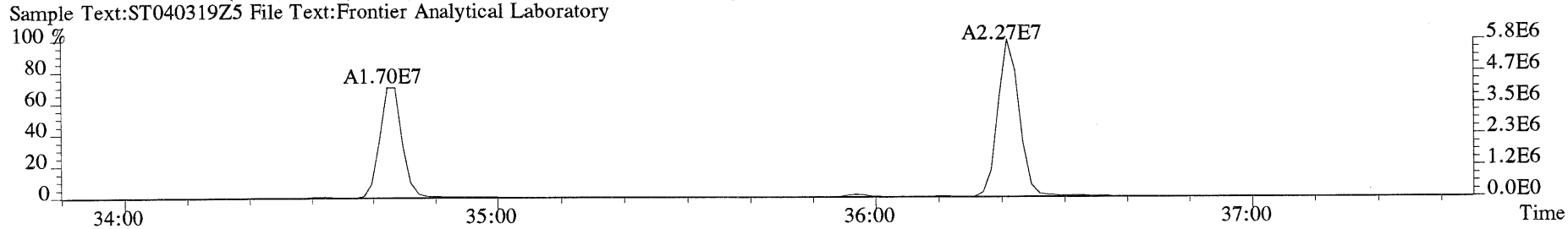
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



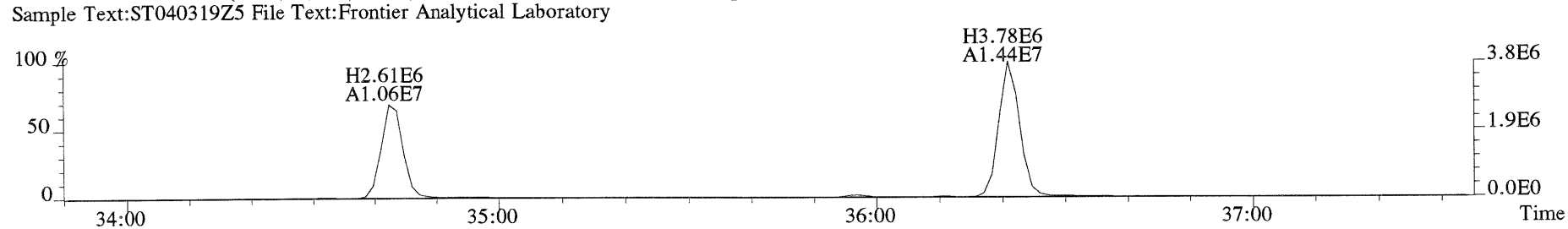
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



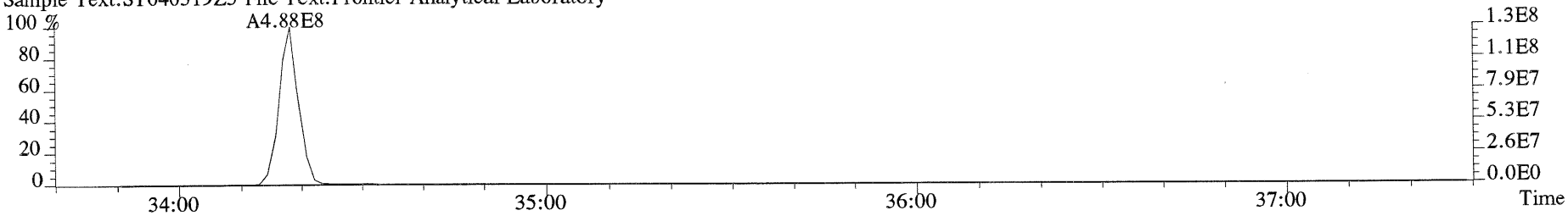
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



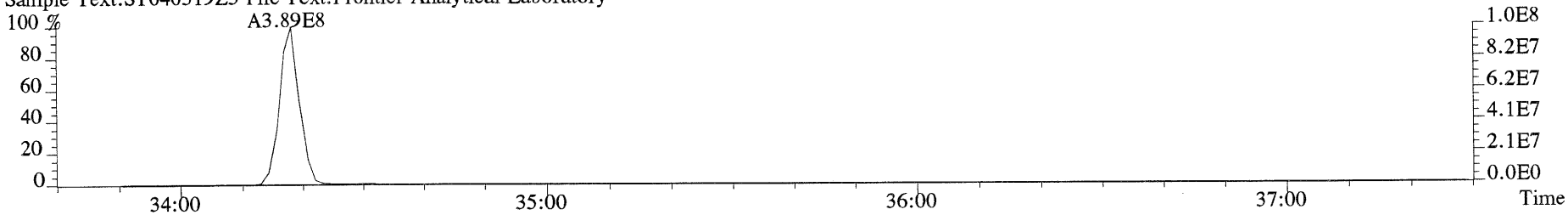
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



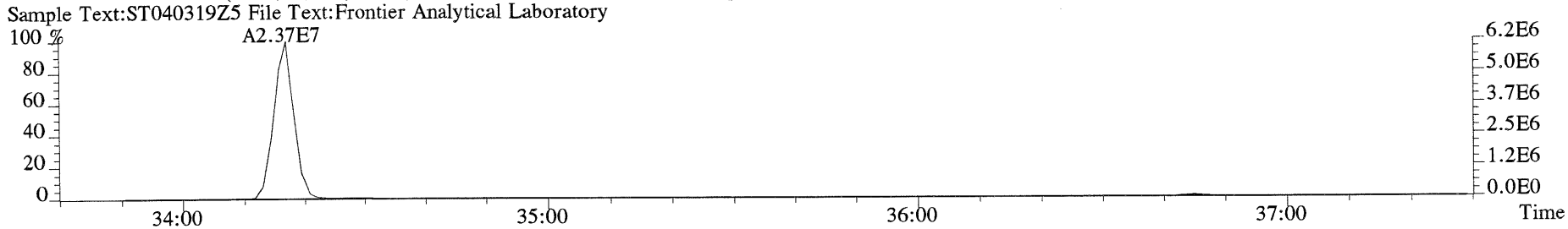
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



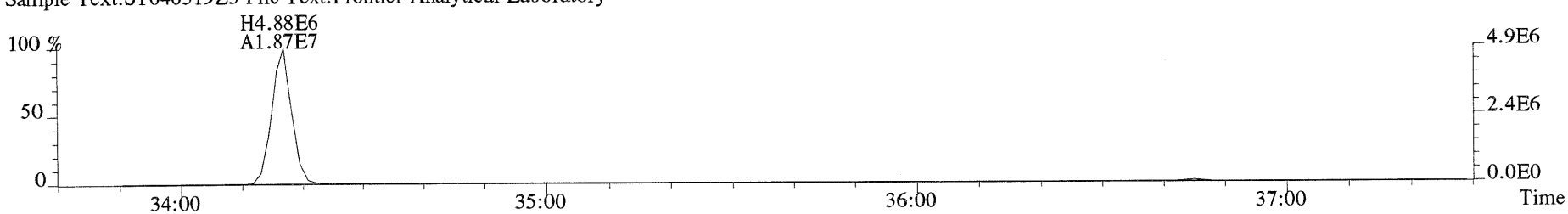
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



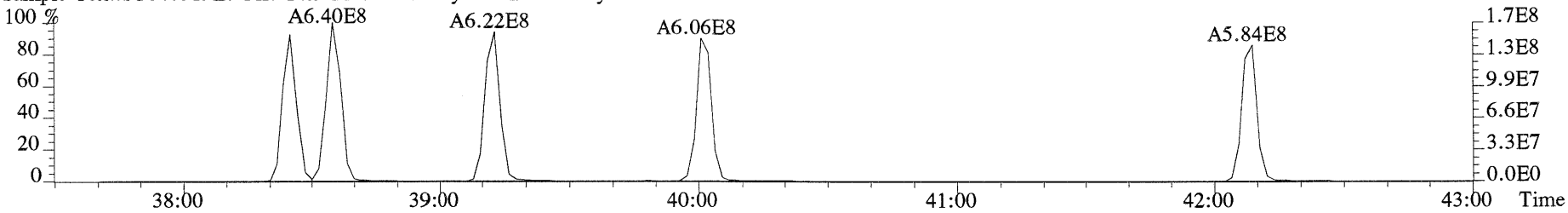
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



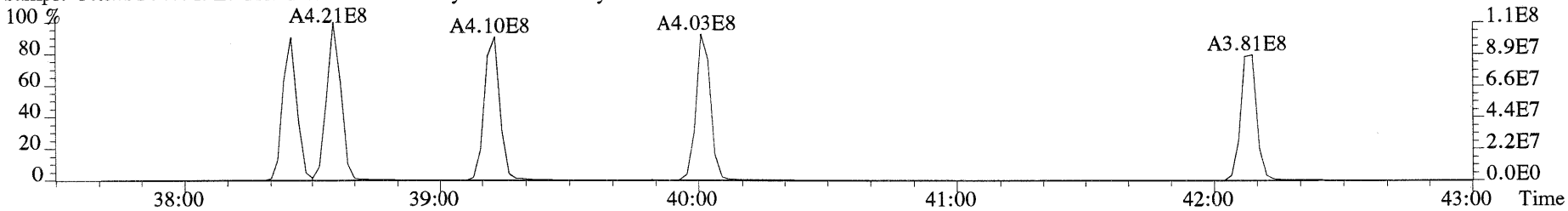
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



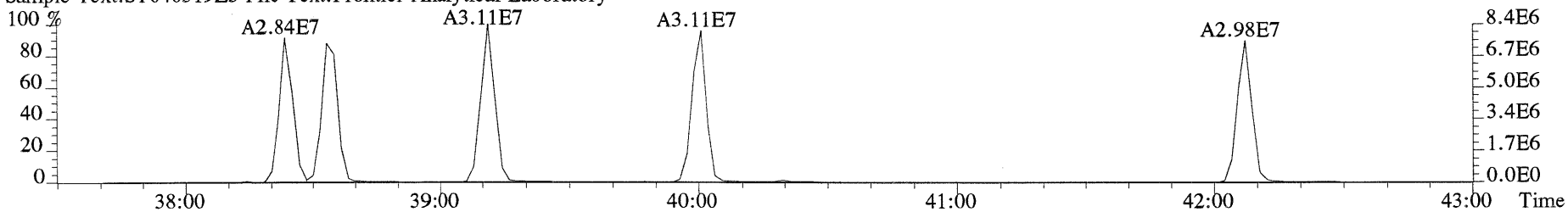
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



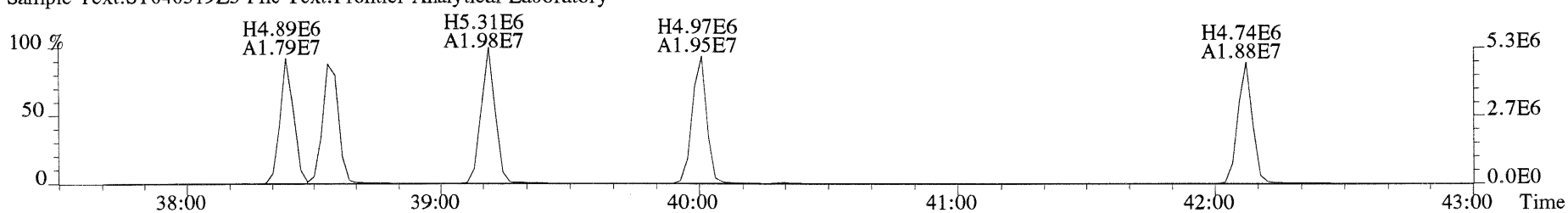
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



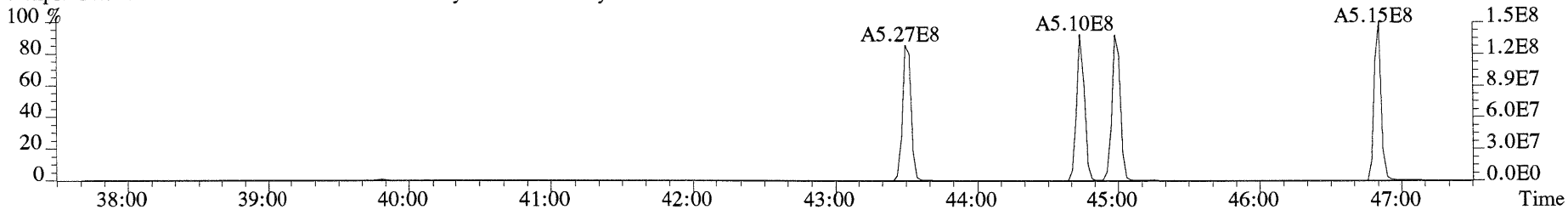
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



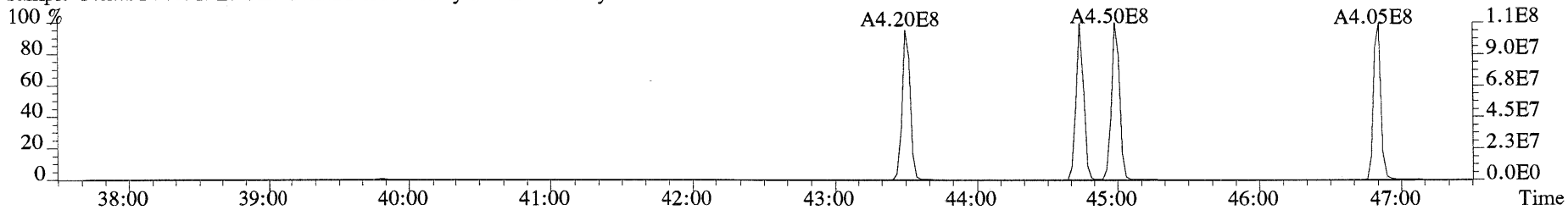
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



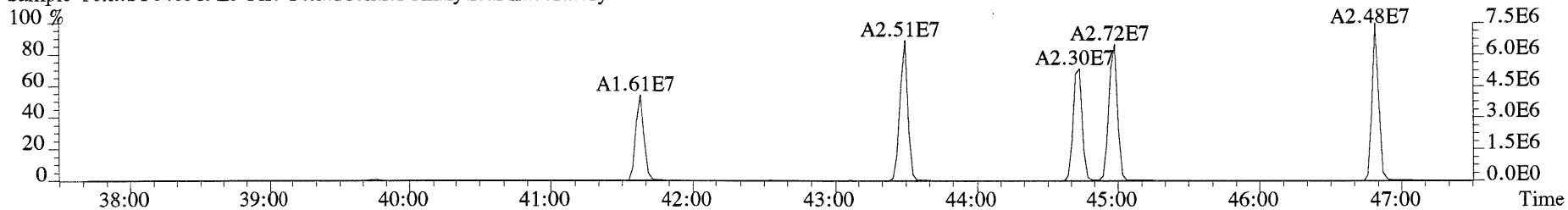
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



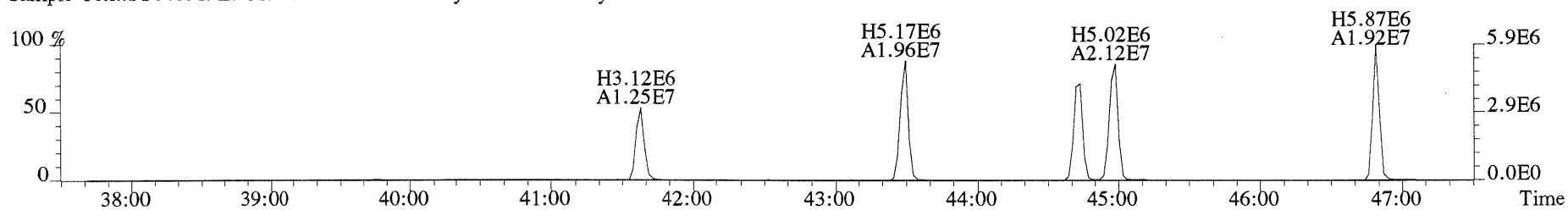
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



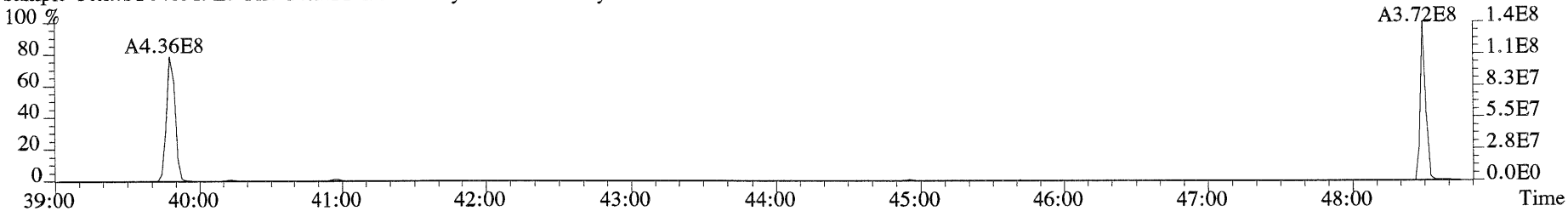
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



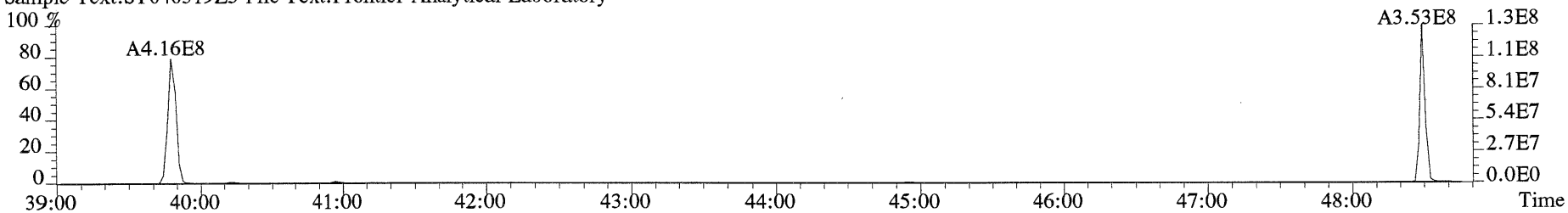
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



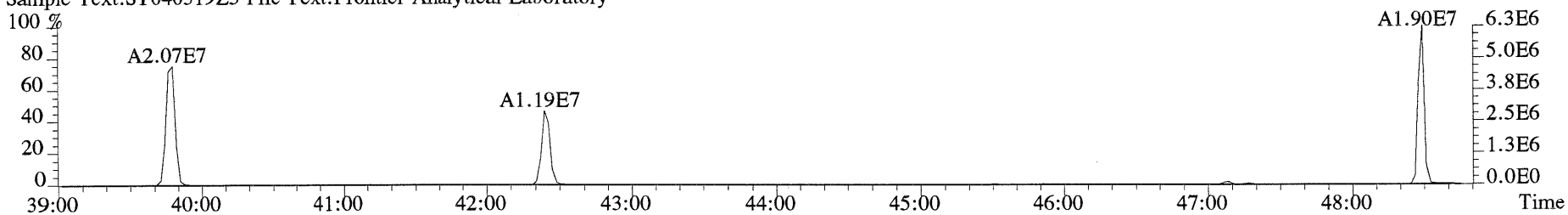
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



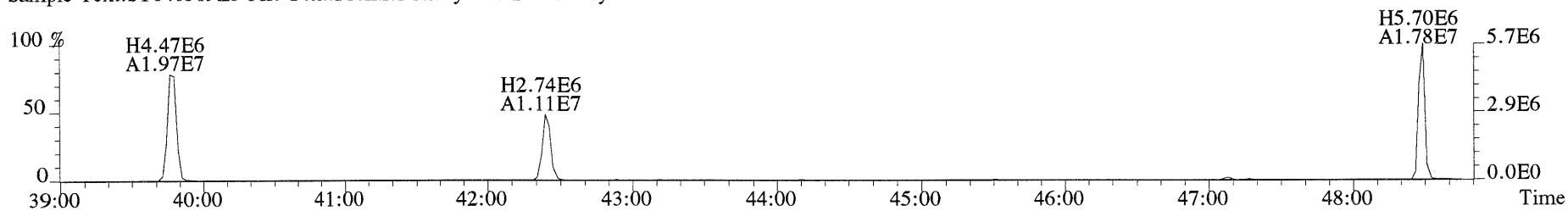
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



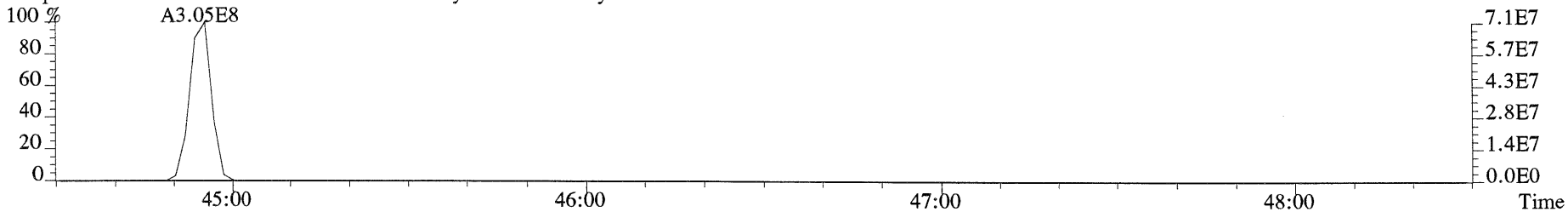
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



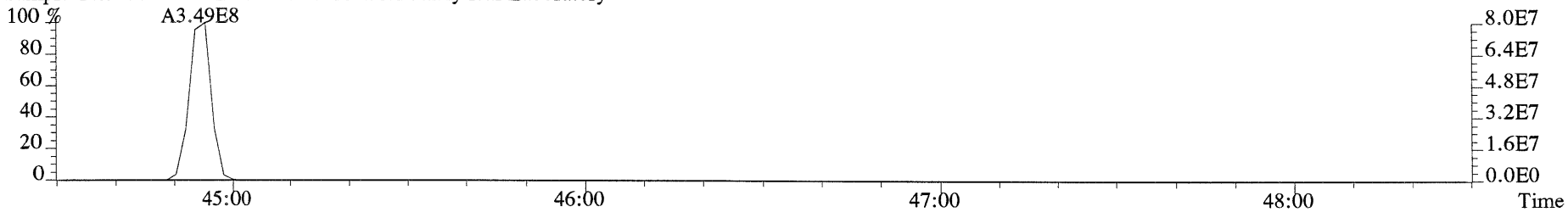
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



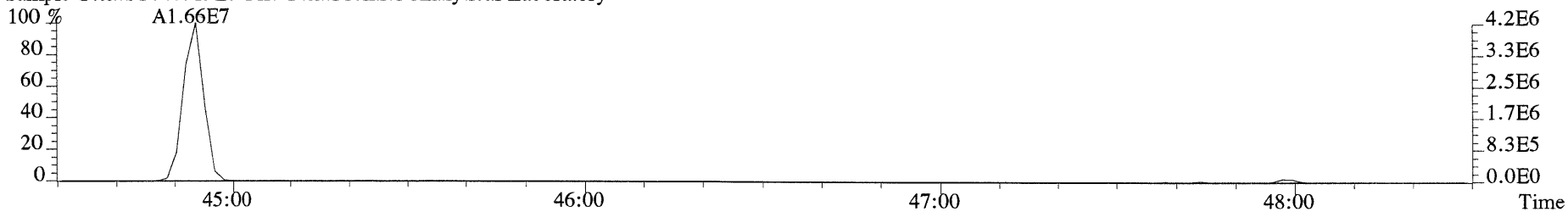
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



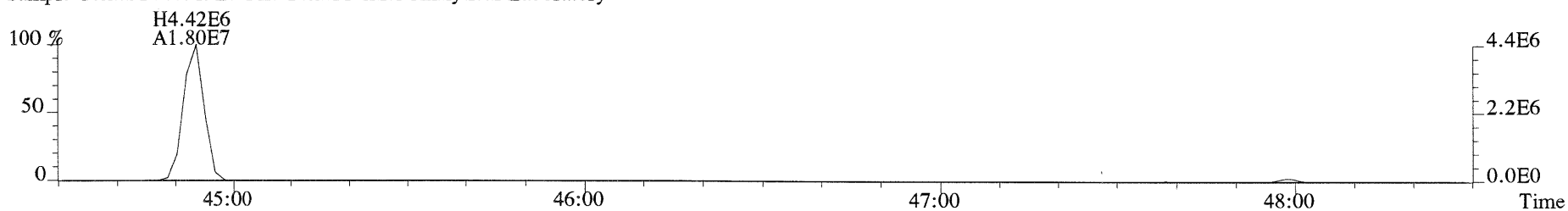
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



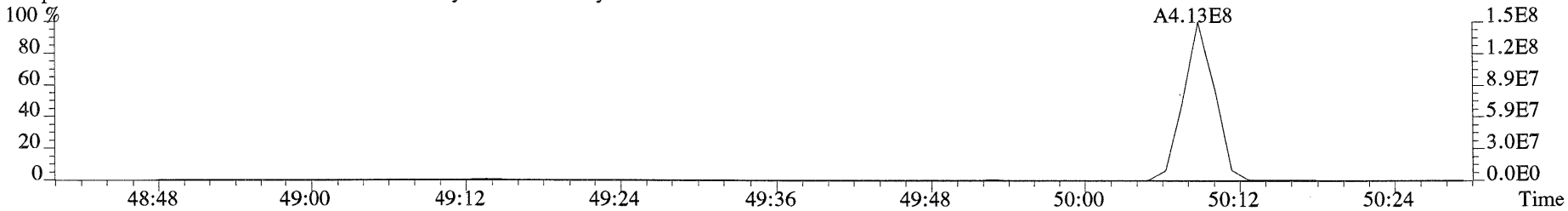
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



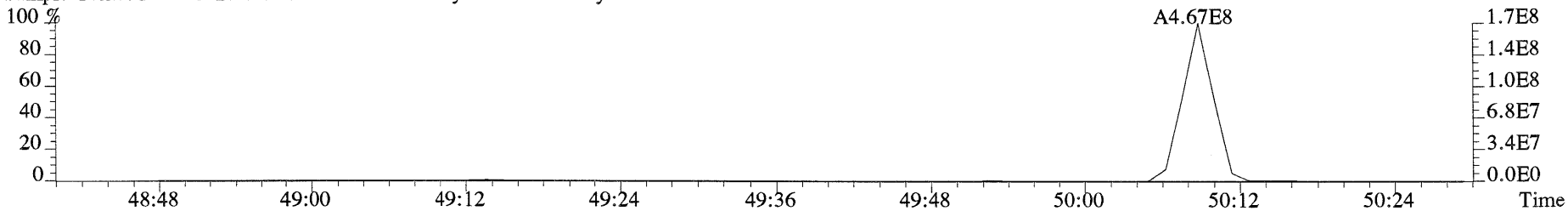
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



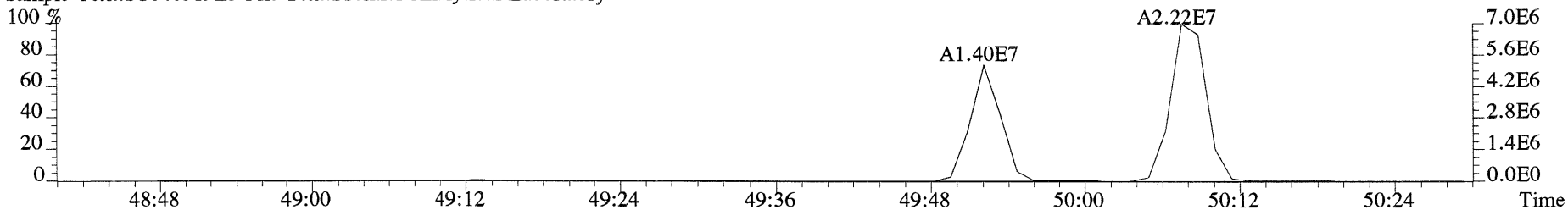
File:03APR19Z #1-272 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



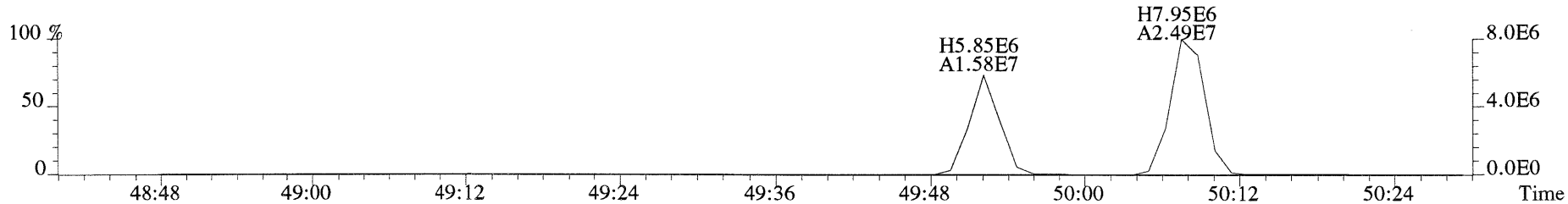
File:03APR19Z #1-273 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



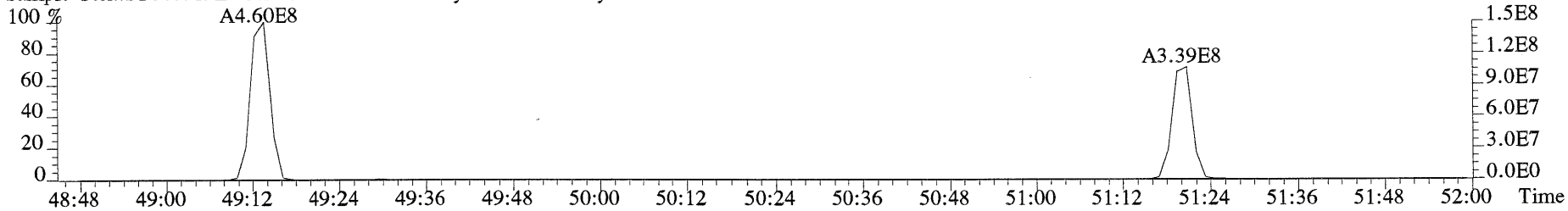
File:03APR19Z #1-273 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



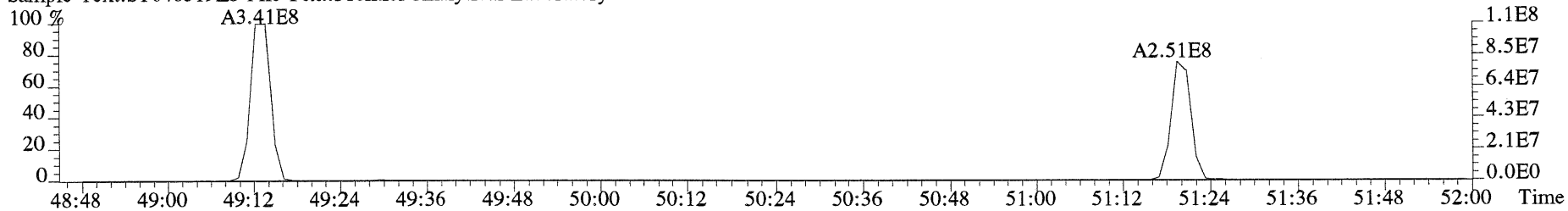
File:03APR19Z #1-273 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



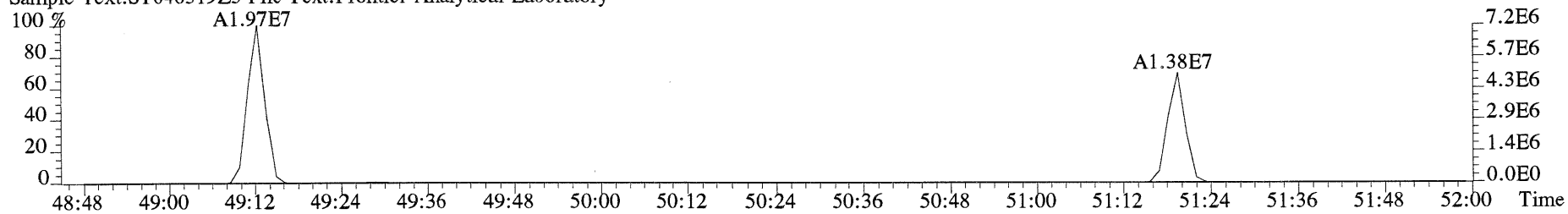
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



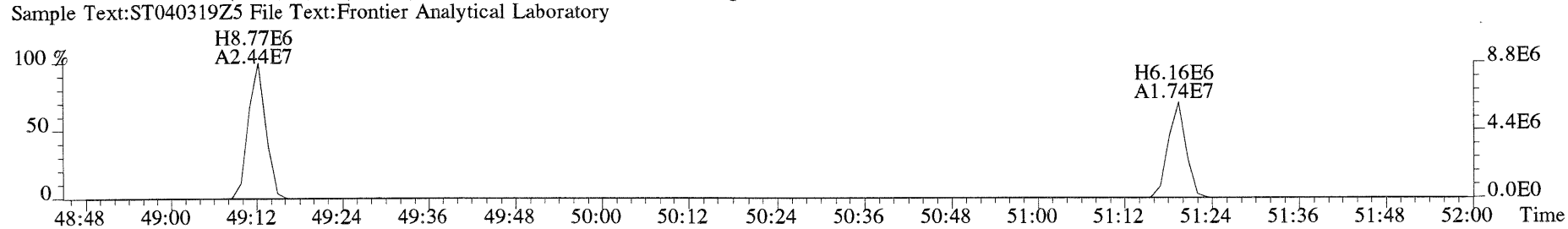
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



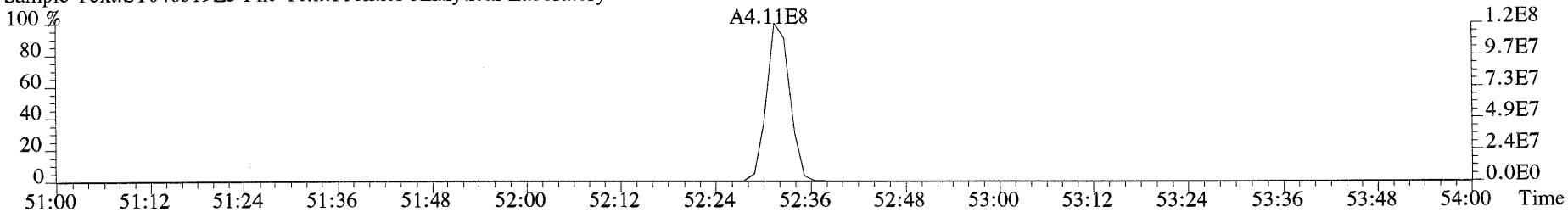
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



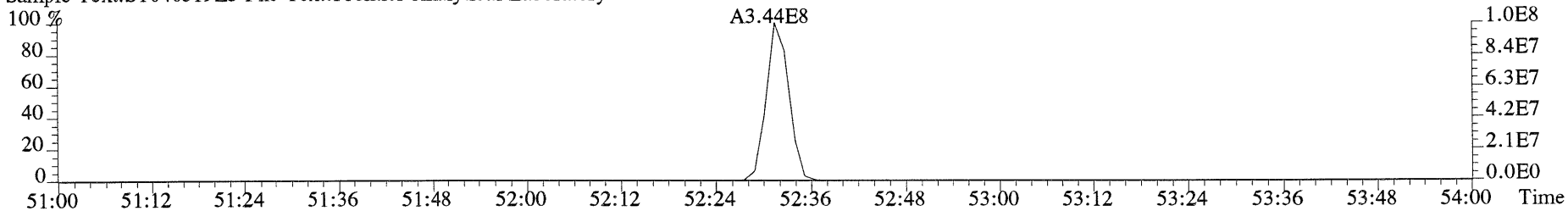
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



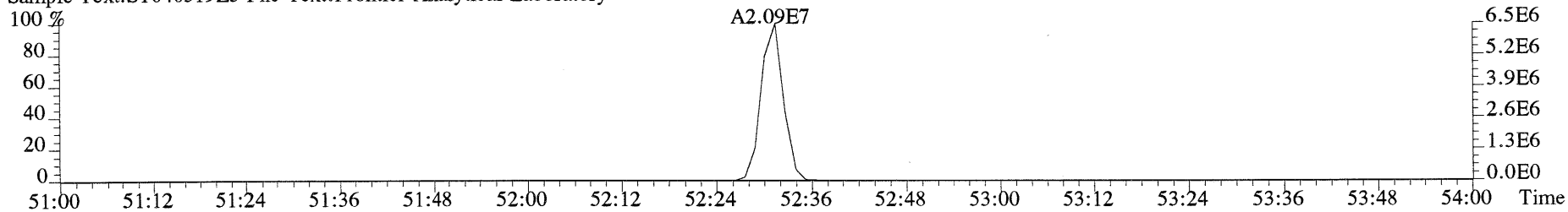
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



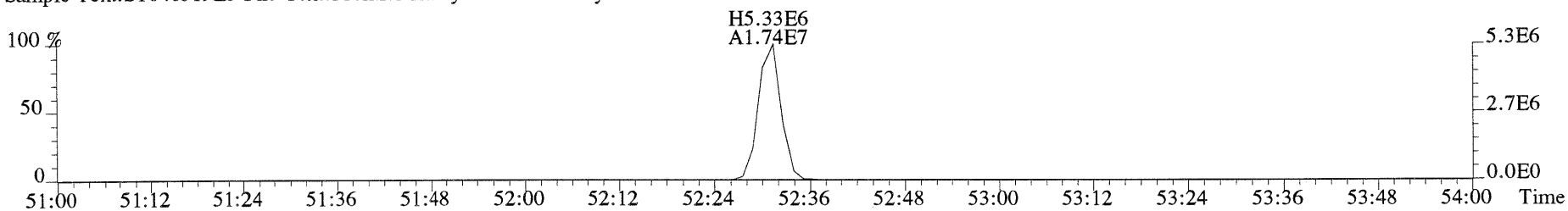
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



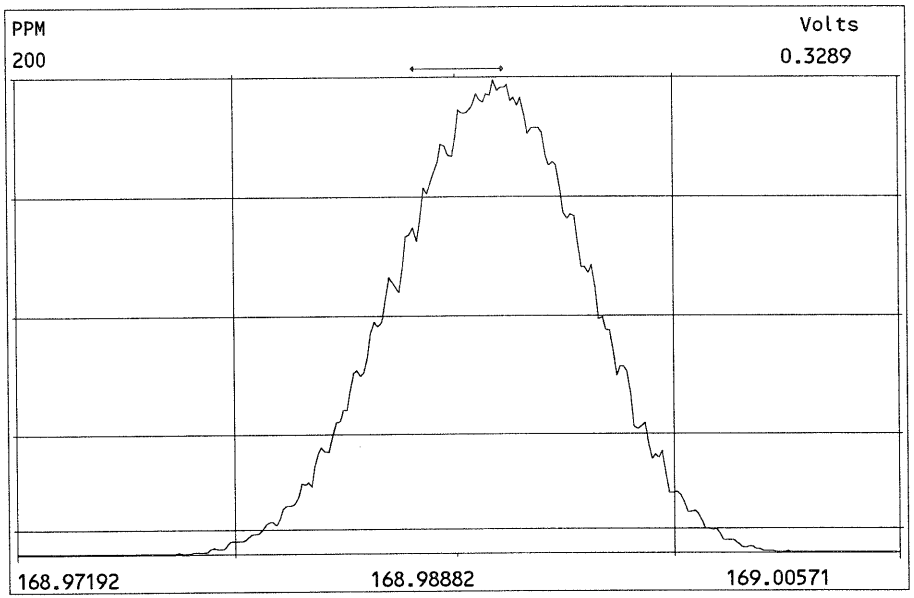
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory

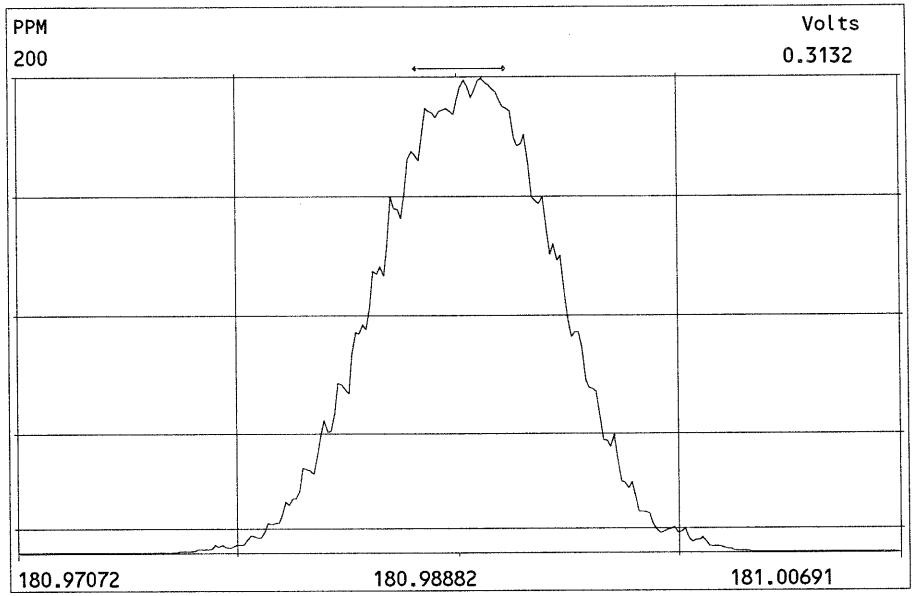


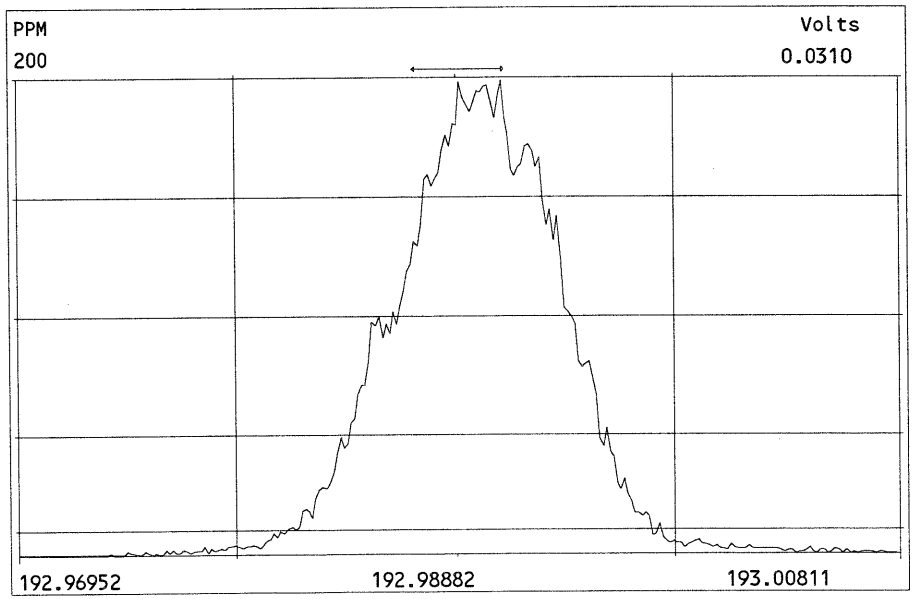
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory

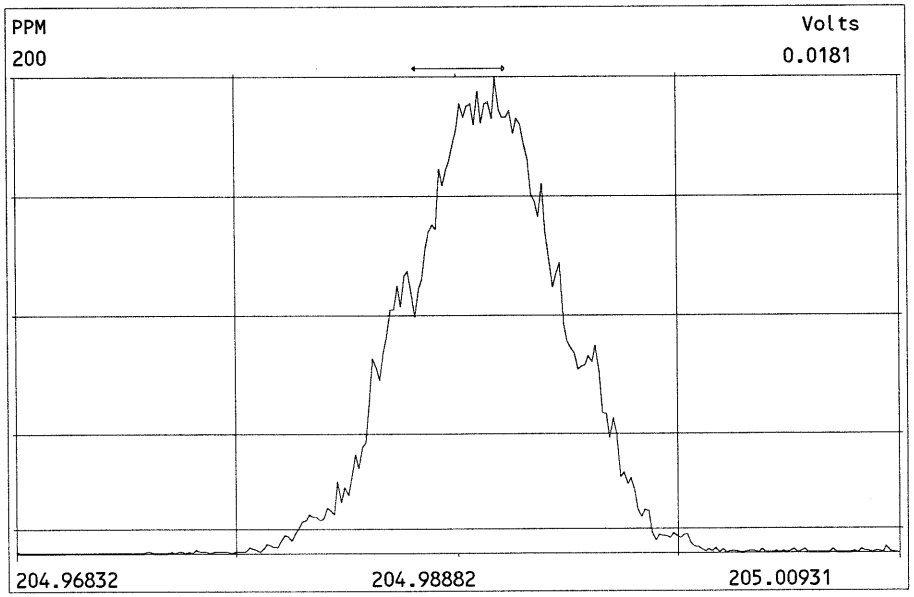


Peak Locate Examination: 3-APR-2019:21:48 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK 78

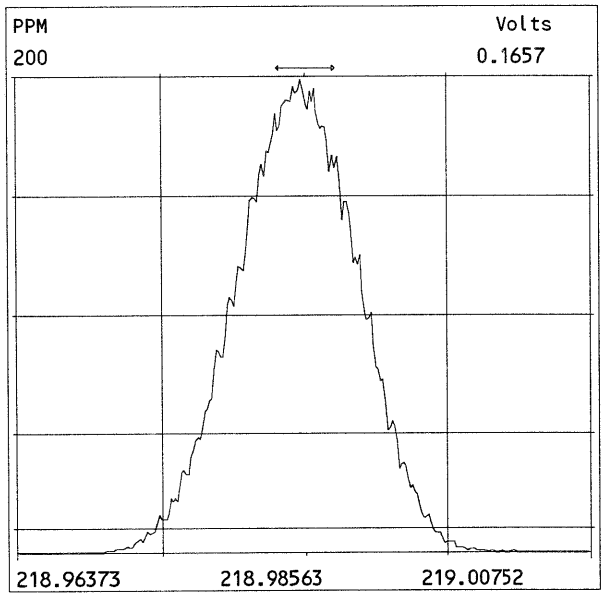


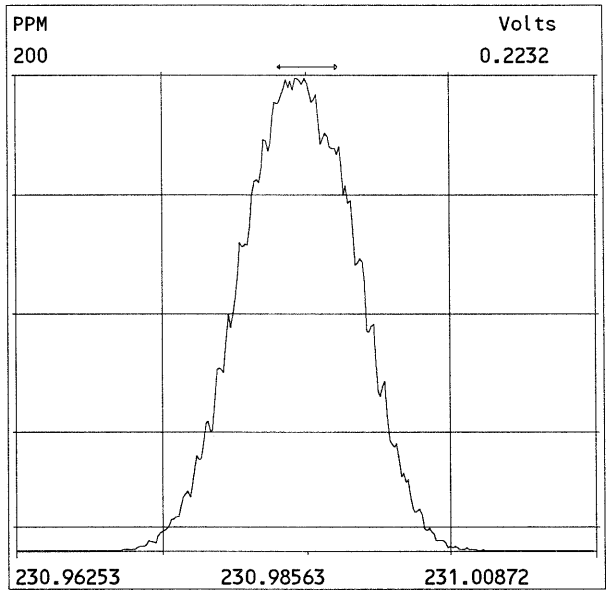


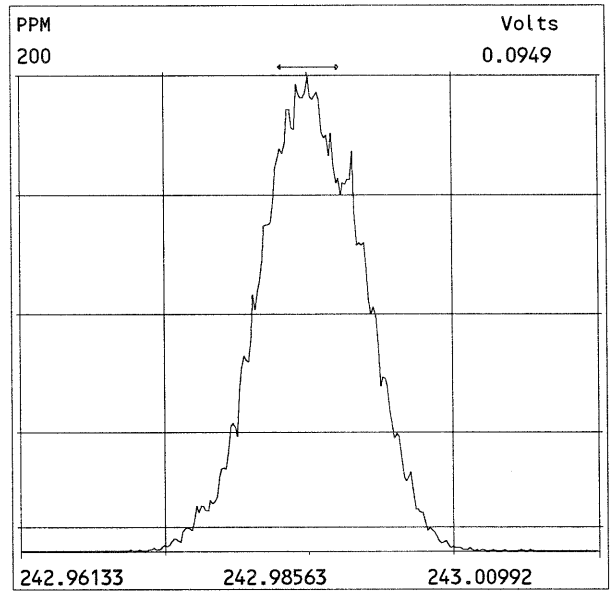


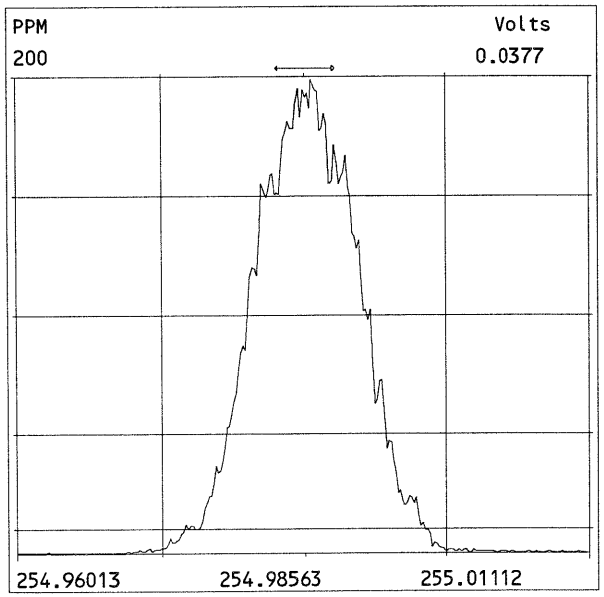


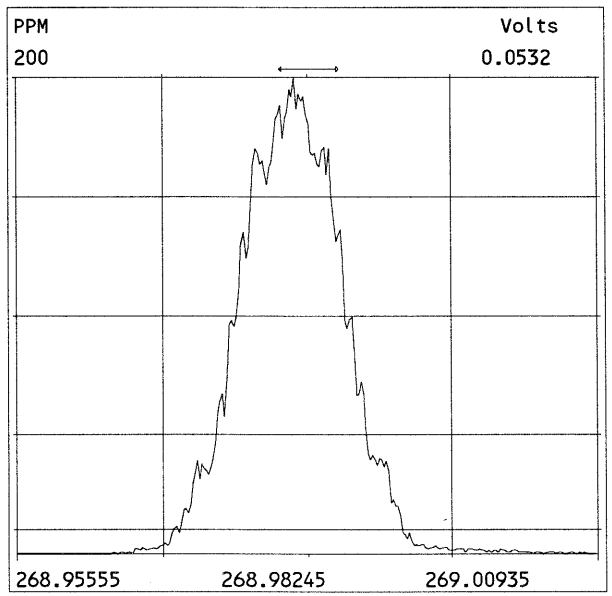
Peak Locate Examination: 3-APR-2019:21:50 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK 78

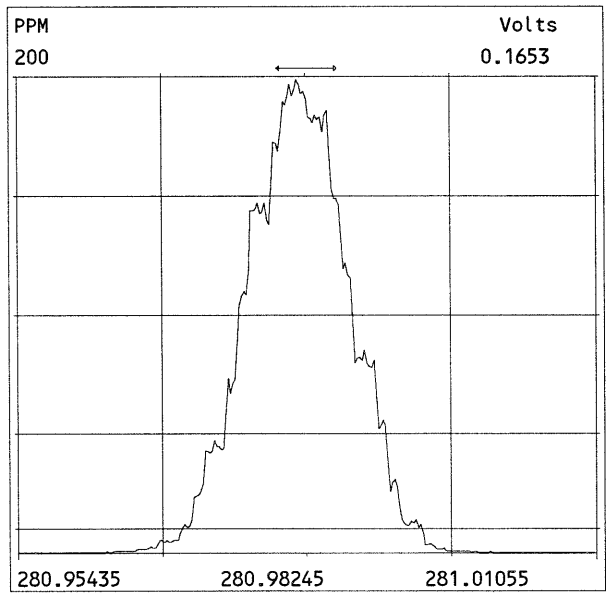




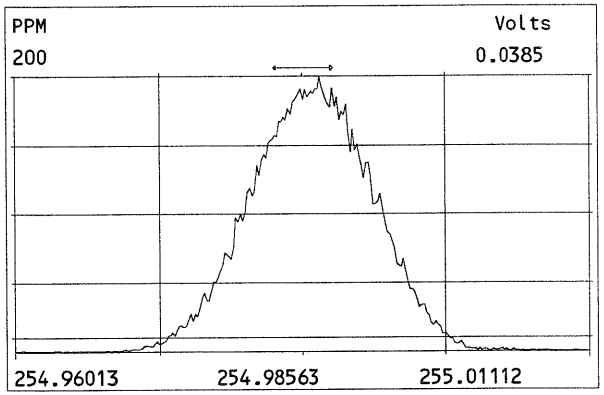


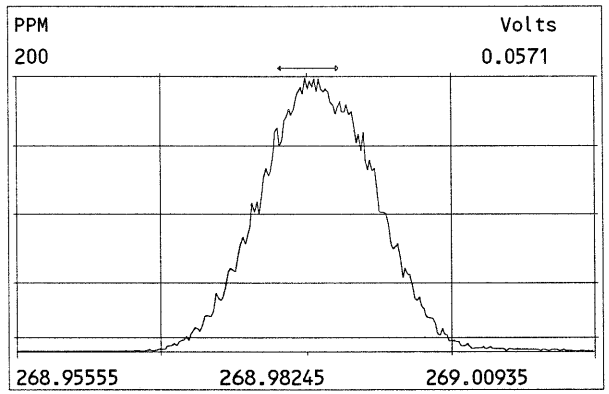


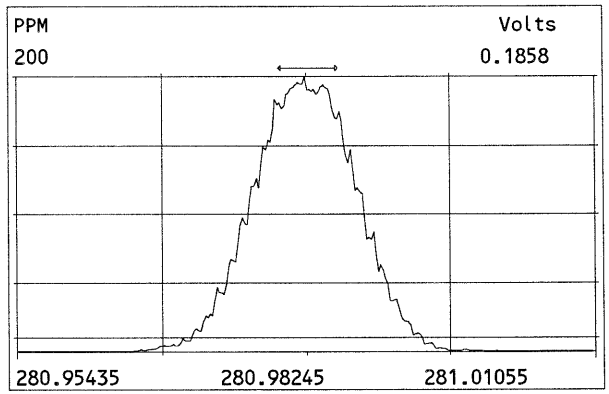


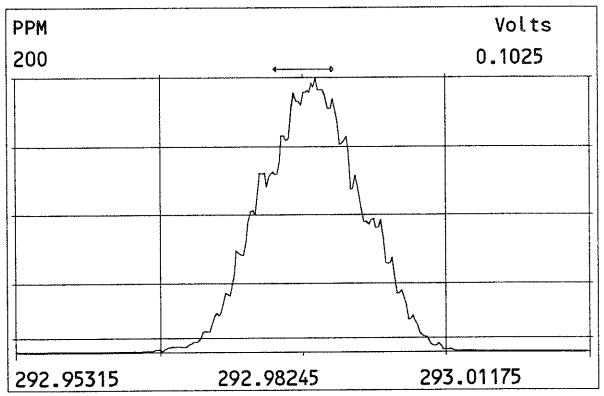


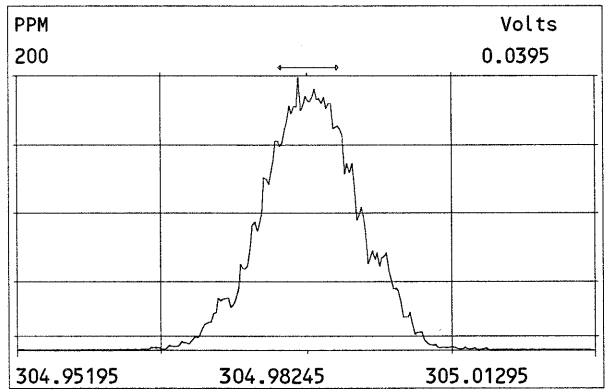
Peak Locate Examination: 3-APR-2019:21:53 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK78

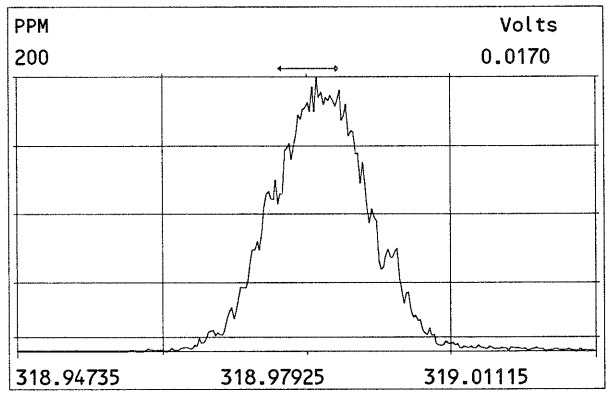


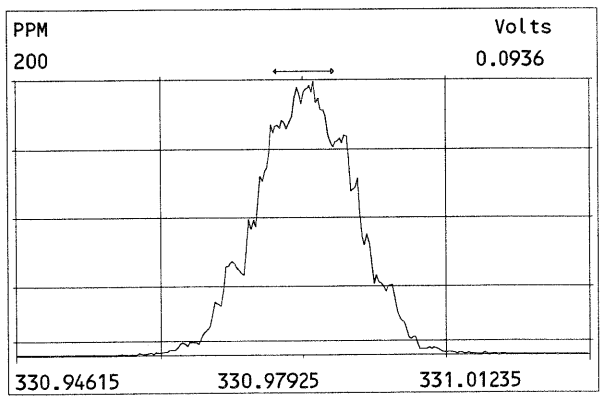


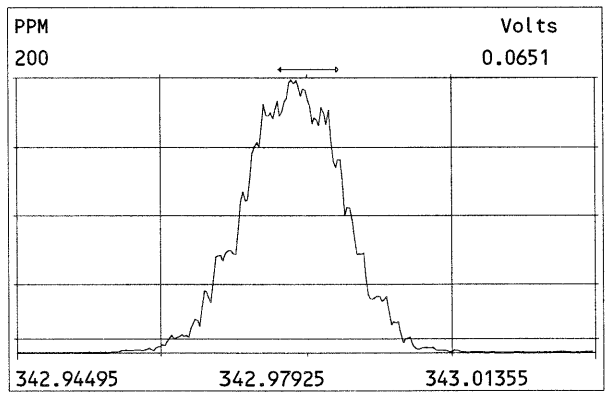




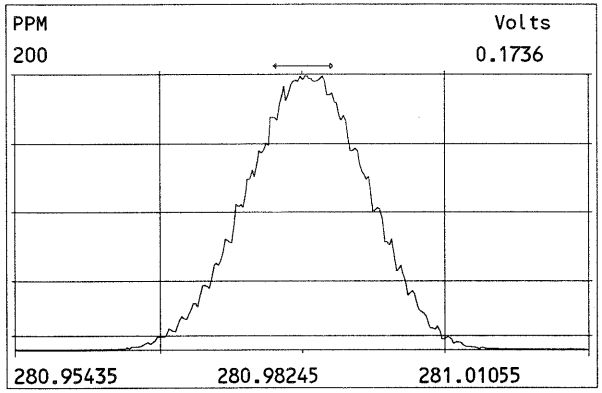


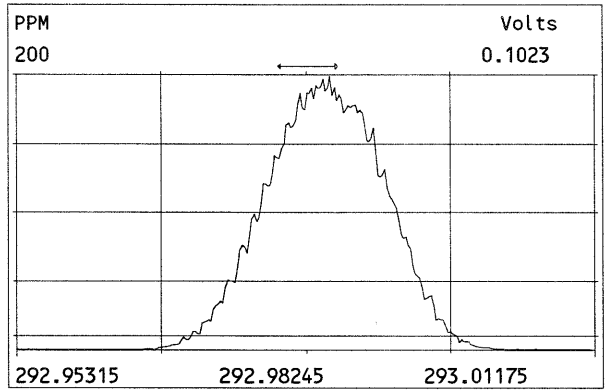


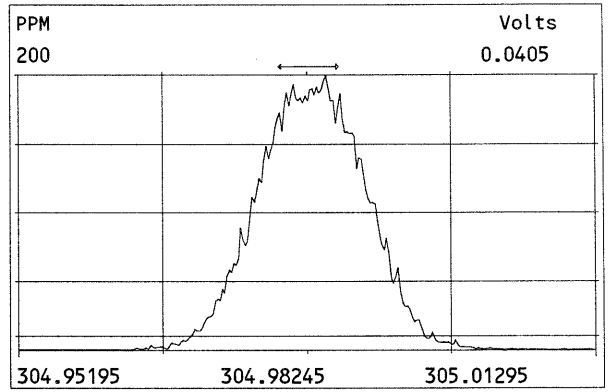


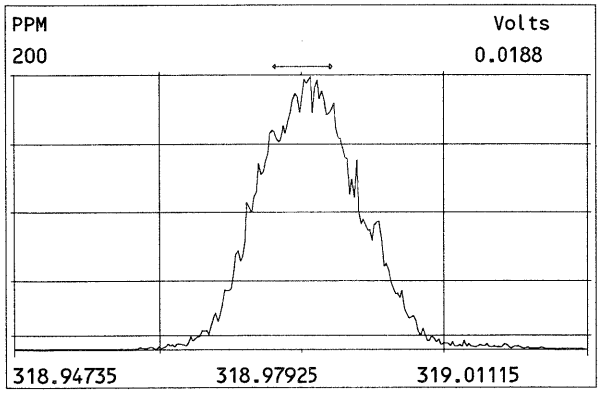


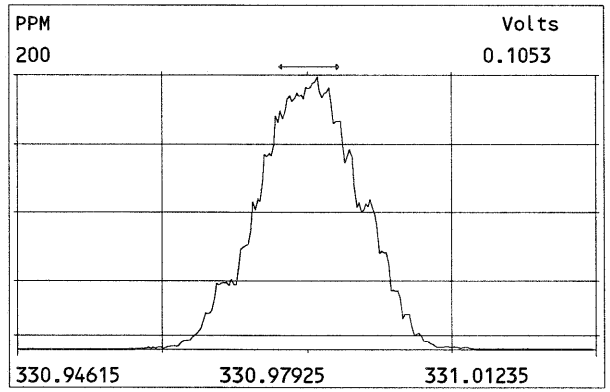
Peak Locate Examination: 3-APR-2019:21:55 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK 78

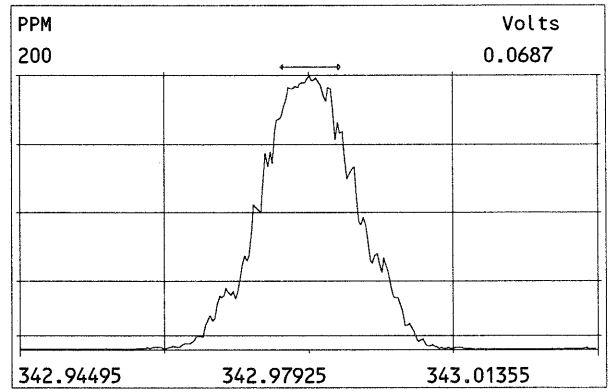


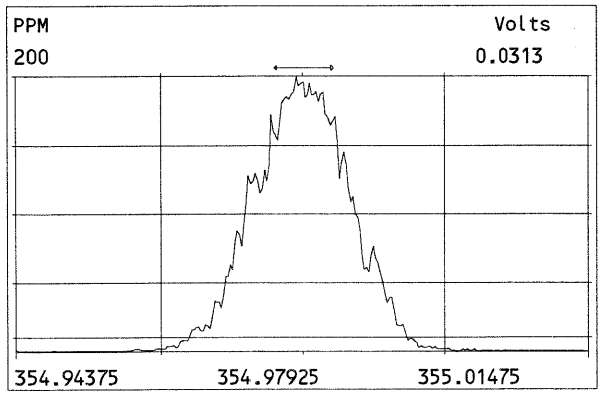


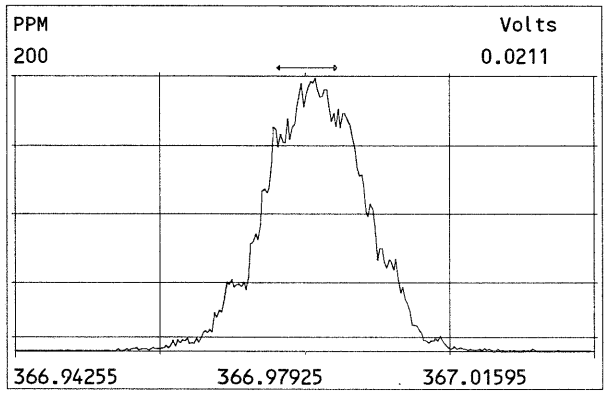


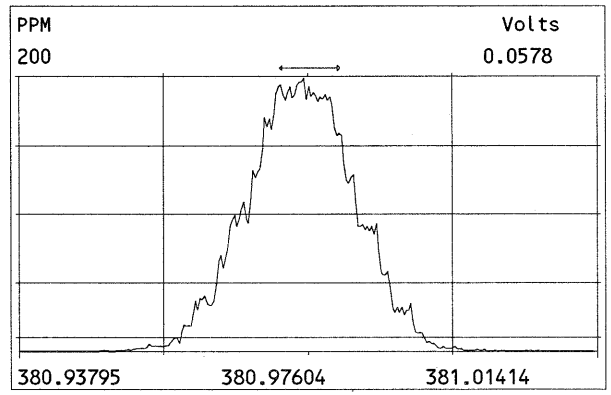




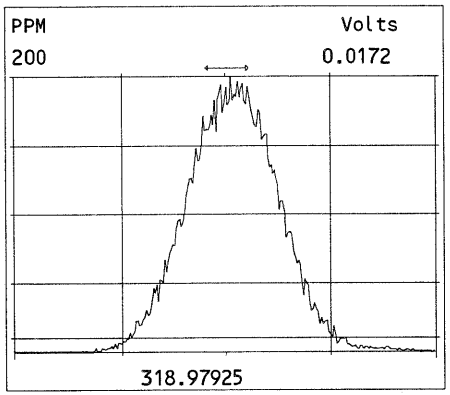


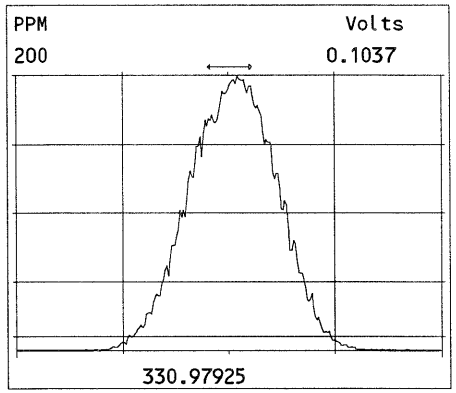


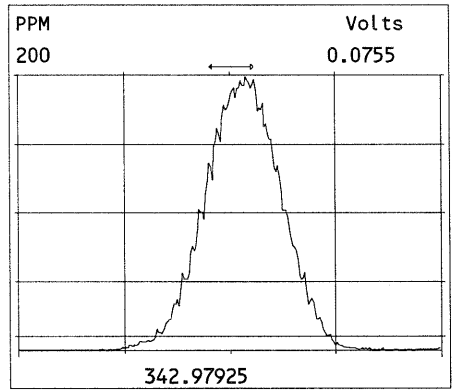


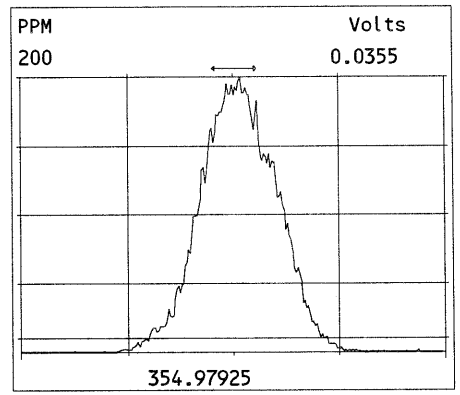


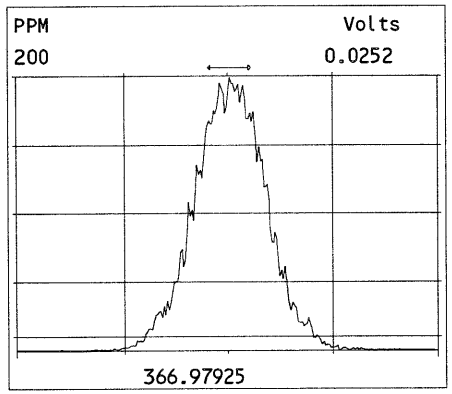
Peak Locate Examination: 3-APR-2019:21:57 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK 78

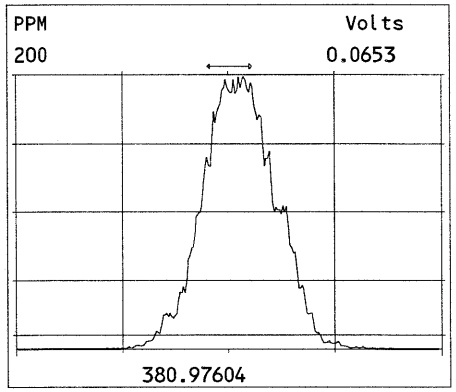


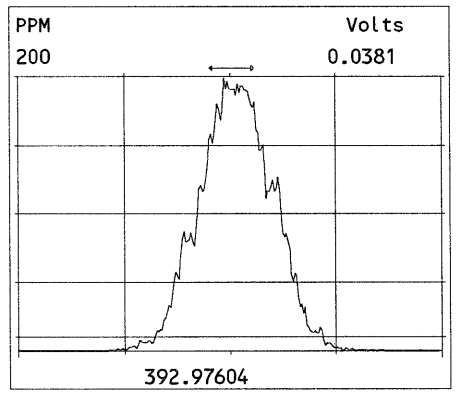


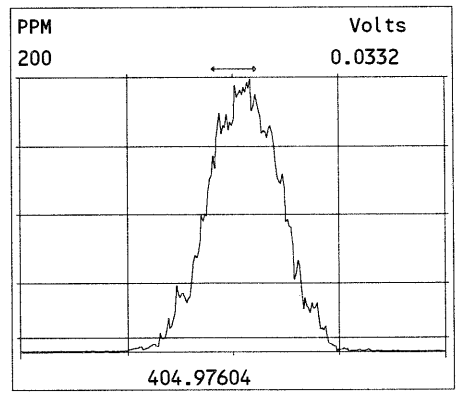


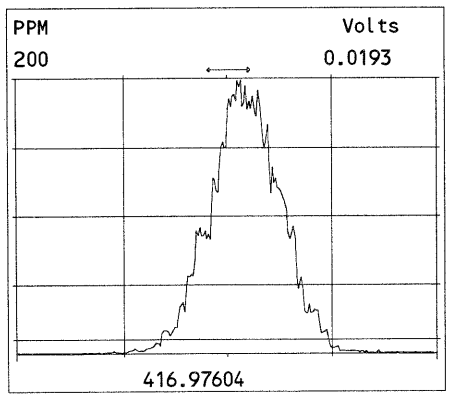


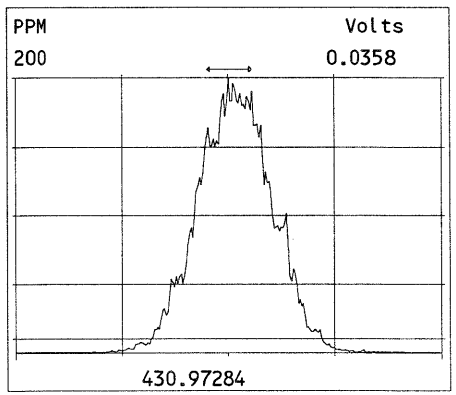


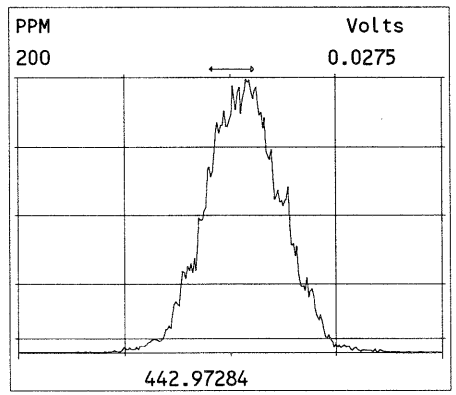




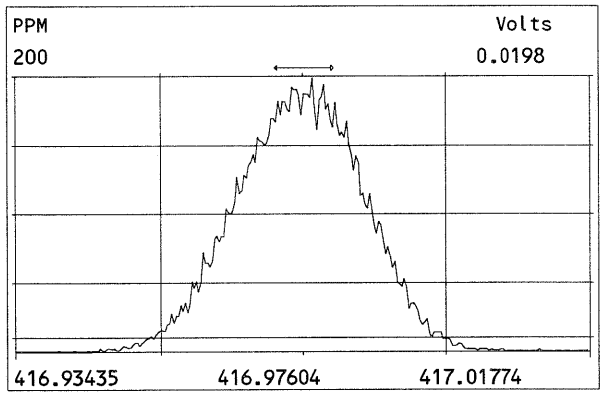


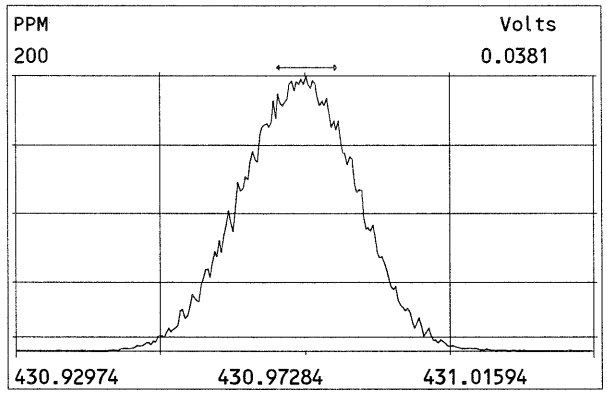


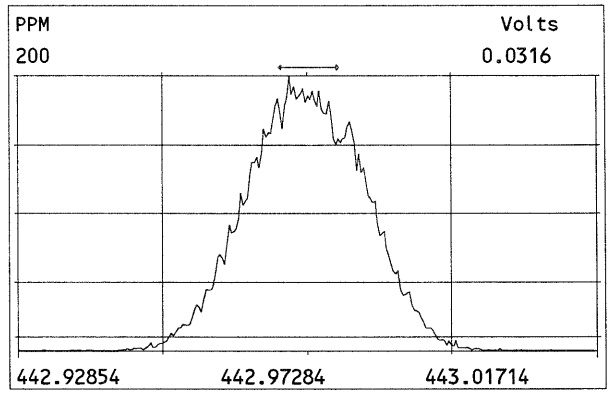


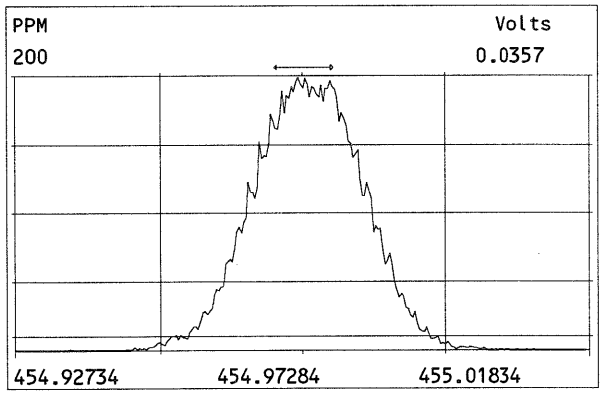


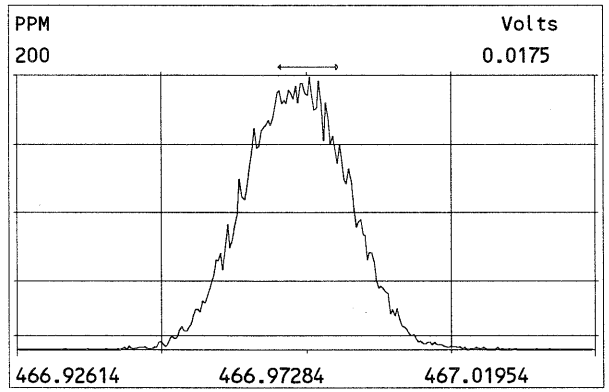
Peak Locate Examination: 3-APR-2019:22:00 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK 78

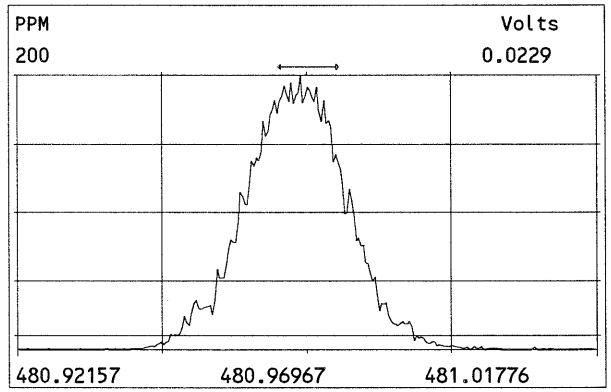


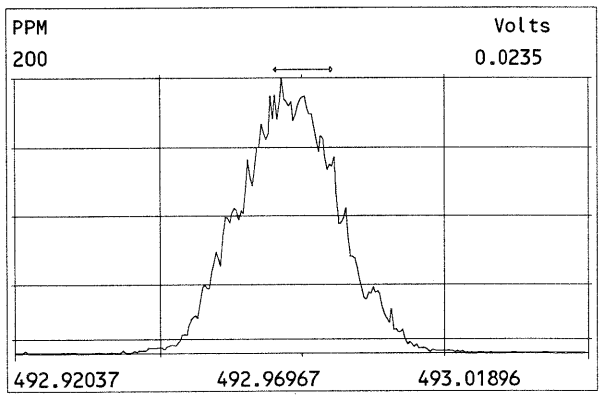


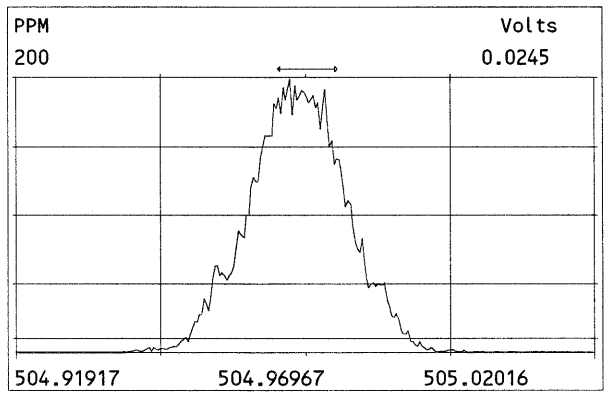


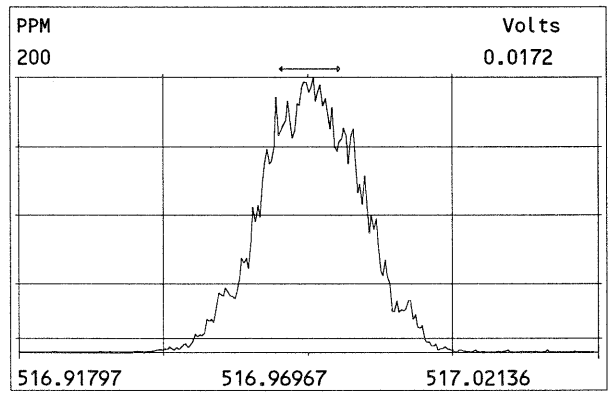












Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 07AUG19Z Sam:1 Analysis Date: 7-AUG-19 06:23:47

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.13	2.66-3.60	y	46.3	37.5 - 62.5
PCB-3	M/M+2	3.18	2.66-3.60	y	47.6	37.5 - 62.5
PCB-4	M/M+2	1.56	1.33-1.79	y	49.6	37.5 - 62.5
PCB-15	M/M+2	1.52	1.33-1.79	y	49.5	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	52.1	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	50.4	37.5 - 62.5
PCB-54	M/M+2	0.81	0.65-0.89	y	51.8	37.5 - 62.5
PCB-77	M/M+2	0.76	0.65-0.89	y	50.3	37.5 - 62.5
PCB-81	M/M+2	0.76	0.65-0.89	y	51.1	37.5 - 62.5
PCB-104	M+2/M+4	1.57	1.32-1.78	y	51.4	37.5 - 62.5
PCB-105	M+2/M+4	1.53	1.32-1.78	y	49.3	37.5 - 62.5
PCB-114	M+2/M+4	1.52	1.32-1.78	y	49.5	37.5 - 62.5
PCB-118	M+2/M+4	1.55	1.32-1.78	y	49.7	37.5 - 62.5
PCB-123	M+2/M+4	1.56	1.32-1.78	y	51.9	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	49.3	37.5 - 62.5
PCB-155	M+2/M+4	1.29	1.05-1.43	y	48.1	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	48.4	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	48.4	37.5 - 62.5
PCB-167	M+2/M+4	1.23	1.05-1.43	y	48.3	37.5 - 62.5
PCB-169	M+2/M+4	1.25	1.05-1.43	y	48.7	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	54.5	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	54.7	37.5 - 62.5
PCB-202	M+2/M+4	0.93	0.76-1.02	y	49.2	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	51.8	37.5 - 62.5
PCB-206	M+4/M+6	1.34	1.13-1.53	y	52.2	37.5 - 62.5
PCB-208	M+4/M+6	1.39	1.13-1.53	y	52.6	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	51.4	37.5 - 62.5

Analyst: [signature] Date: 8/7/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 07AUG19Z Sam:1 Analysis Date: 7-AUG-19 06:23:47

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.24	2.66-3.60	y	88.7	50.0 - 145
13C-PCB-3	M/M+2	3.26	2.66-3.60	y	95.6	50.0 - 145
13C-PCB-4	M/M+2	1.55	1.33-1.79	y	87.5	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	100	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	96.2	50.0 - 145
13C-PCB-37	M/M+2	1.04	0.88-1.20	y	92.1	50.0 - 145
13C-PCB-54	M/M+2	0.84	0.65-0.89	y	82.8	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	86.9	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	92.7	50.0 - 145
13C-PCB-104	M+2/M+4	1.58	1.32-1.78	y	87.9	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	90.0	50.0 - 145
13C-PCB-114	M+2/M+4	1.59	1.32-1.78	y	92.2	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	94.4	50.0 - 145
13C-PCB-123	M+2/M+4	1.58	1.32-1.78	y	89.3	50.0 - 145
13C-PCB-126	M+2/M+4	1.61	1.32-1.78	y	100	50.0 - 145
13C-PCB-155	M+2/M+4	1.27	1.05-1.43	y	83.5	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	99.6	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	93.6	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	105	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	92.5	50.0 - 145
13C-PCB-188	M+2/M+4	1.05	0.89-1.21	y	89.8	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	98.0	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	99.7	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	92.1	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	98.9	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	101	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	103	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.06	0.88-1.20	y	95.5	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	101	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	107	75.0 - 125

Analyst: _____ Date: 8/7/19

FAL ID: ST080719Z1 Filename: 07AUG19Z Sam:1 Acquired: 7-AUG-19 06:23:47 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 07AUG19Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.92e+07	3.13 y	14:34	1.19	46.3		2.50	-	-	*	-
13C-PCB-1	8.89e+07	3.24 y	14:33	1.02	88.7		2.50				88.7
PCB-3	5.10e+07	3.18 y	16:59	1.18	47.6		2.50	-	-	*	-
13C-PCB-3	9.11e+07	3.26 y	16:58	0.97	95.6		2.50				95.6
PCB-4	3.29e+07	1.56 y	18:14	1.04	49.6		2.50	-	-	*	-
13C-PCB-4	6.35e+07	1.55 y	18:12	0.74	87.5		2.50				87.5
PCB-15	4.85e+07	1.52 y	23:45	1.03	49.5		2.50	-	-	*	-
13C-PCB-15	9.51e+07	1.60 y	23:44	0.96	100		2.50				100
PCB-19	2.87e+07	1.06 y	22:07	1.11	52.1		2.50	-	-	*	-
13C-PCB-19	4.97e+07	1.08 y	22:05	0.53	96.2		2.50				96.2
13C-PCB-9	9.84e+07	1.61 y	19:53	-	127		2.50				
PCB-37	4.04e+07	1.05 y	30:23	1.04	50.4		2.50	-	-	*	-
13C-PCB-37	7.73e+07	1.04 y	30:22	1.57	92.1		2.50				92.1
PCB-54	3.70e+07	0.81 y	25:39	1.16	51.8		2.50	-	-	*	-
13C-PCB-54	6.13e+07	0.84 y	25:38	1.38	82.8		2.50				82.8
PCB-104	2.89e+07	1.57 y	30:04	1.08	51.4		2.50	-	-	*	-
13C-PCB-104	5.20e+07	1.58 y	30:03	1.11	87.9		2.50				87.9
13C-PCB-28	8.74e+07	1.06 y	26:42	1.71	95.5		2.50				95.5
13C-PCB-52	5.36e+07	0.81 y	28:57	-	140		2.50				
PCB-81	3.31e+07	0.76 y	36:09	1.06	51.1		2.50	-	-	*	-
13C-PCB-81	6.08e+07	0.80 y	36:08	1.50	92.7		2.50				92.7
PCB-77	3.06e+07	0.76 y	36:42	1.02	50.3		2.50	-	-	*	-
13C-PCB-77	5.96e+07	0.81 y	36:41	1.57	86.9		2.50				86.9
PCB-155	2.55e+07	1.29 y	34:13	1.02	48.1		2.50	-	-	*	-
13C-PCB-155	5.18e+07	1.27 y	34:12	1.42	83.5		2.50				83.5
13C-PCB-111	5.67e+07	1.61 y	36:17	1.29	101		2.50				101
13C-PCB-101	4.37e+07	1.63 y	34:38	-	133		2.50				
PCB-123	2.67e+07	1.56 y	38:20	1.03	51.9		2.50	-	-	*	-
13C-PCB-123	4.97e+07	1.58 y	38:18	1.40	89.3		2.50				89.3
PCB-118	2.92e+07	1.55 y	38:30	1.02	49.7		2.50	-	-	*	-
13C-PCB-118	5.77e+07	1.61 y	38:30	1.53	94.4		2.50				94.4
PCB-114	2.67e+07	1.52 y	39:08	1.01	49.5		2.50	-	-	*	-
13C-PCB-114	5.32e+07	1.59 y	39:06	1.45	92.2		2.50				92.2
PCB-105	2.58e+07	1.53 y	39:57	1.02	49.3		2.50	-	-	*	-
13C-PCB-105	5.16e+07	1.60 y	39:56	1.44	90.0		2.50				90.0
PCB-126	2.74e+07	1.57 y	42:04	1.02	49.3		2.50	-	-	*	-
13C-PCB-126	5.47e+07	1.61 y	42:02	1.37	100		2.50				100
PCB-167	2.76e+07	1.23 y	43:25	1.07	48.3		2.50	-	-	*	-
13C-PCB-167	5.35e+07	1.28 y	43:25	1.28	105		2.50				105
PCB-156	2.61e+07	1.25 y	44:39	1.10	48.4		2.50	-	-	*	-
13C-PCB-156	4.91e+07	1.28 y	44:39	1.24	99.6		2.50				99.6
PCB-157	2.56e+07	1.24 y	44:55	1.06	48.4		2.50	-	-	*	-
13C-PCB-157	4.98e+07	1.30 y	44:54	1.34	93.6		2.50				93.6
PCB-169	2.36e+07	1.25 y	46:45	1.06	48.7		2.50	-	-	*	-
13C-PCB-169	4.58e+07	1.29 y	46:45	1.24	92.5		2.50				92.5
PCB-188	2.55e+07	1.05 y	39:42	1.02	54.5		2.50	-	-	*	-
13C-PCB-188	4.60e+07	1.05 y	39:42	1.29	89.8		2.50				89.8
PCB-189	2.27e+07	1.05 y	48:26	0.99	54.7		2.50	-	-	*	-
13C-PCB-189	4.17e+07	1.07 y	48:24	1.07	98.0		2.50				98.0
PCB-202	2.10e+07	0.93 y	44:50	0.99	49.2		2.50	-	-	*	-
13C-PCB-202	4.32e+07	0.90 y	44:49	1.09	99.7		2.50				99.7
13C-PCB-178	3.44e+07	1.07 y	42:20	0.81	107		2.50				107
13C-PCB-138	3.98e+07	1.28 y	41:33	-	124		2.50				

FAL ID: ST080719Z1 Filename: 07AUG19Z Sam:1 Acquired: 7-AUG-19 06:23:47 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 07AUG19Z GC Column: DB1MS Amount: 1.000

PCB-205	2.39e+07	0.90	y	50:05	1.02	51.8	2.50	-	-	*	-
13C-PCB-205	4.51e+07	0.89	y	50:05	1.40	92.1	2.50				92.1
PCB-208	2.46e+07	1.39	y	49:10	0.98	52.6	2.50	-	-	*	-
13C-PCB-208	4.80e+07	0.81	y	49:08	1.36	101	2.50				101
PCB-206	1.81e+07	1.34	y	51:17	0.99	52.2	2.50	-	-	*	-
13C-PCB-206	3.48e+07	0.80	y	51:16	1.01	98.9	2.50				98.9
PCB-209	2.44e+07	1.19	y	52:29	1.09	51.4	2.50	-	-	*	-
13C-PCB-209	4.35e+07	1.20	y	52:27	1.21	103	2.50				103
13C-PCB-194	3.50e+07	0.90	y	49:50	-	114	2.50				

Analyst: _____ Date: 8/7/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:07AUG19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

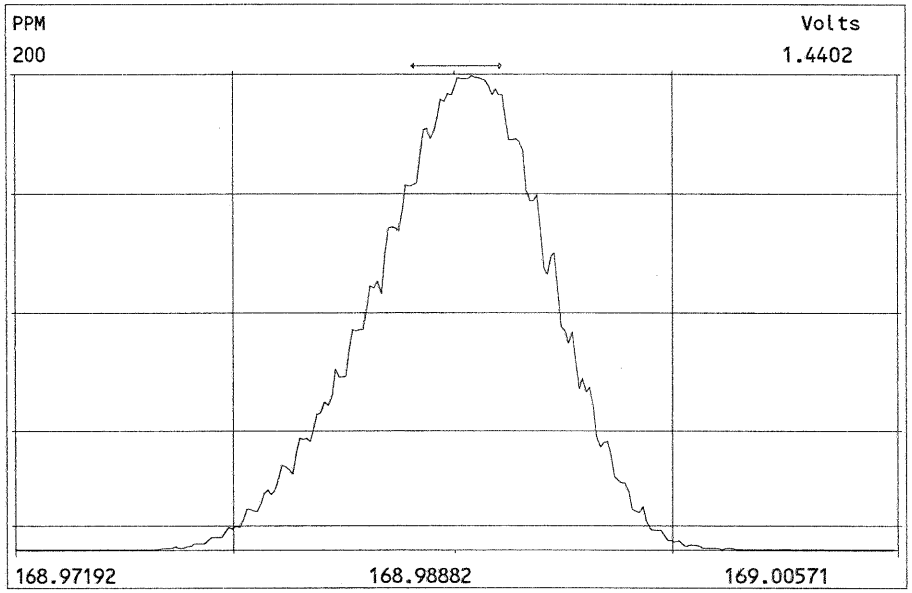
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
07AUG19Z	1	ST080719Z1	1668 CS3 R181204D	7-AUG-19 06:23:47	ST080719Z1	ST080719Z2	BS
07AUG19Z	2	SS080719Z1	Daily 209 190408A	7-AUG-19 07:22:07	ST080719Z1	ST080719Z2	BS
07AUG19Z	3	04998-001-0001-OPR	OPR	7-AUG-19 08:20:28	ST080719Z1	ST080719Z2	BS
07AUG19Z	4	04998-001-0001-MB	Method Blank	7-AUG-19 09:18:49	ST080719Z1	ST080719Z2	BS
07AUG19Z	5	12513-002-0001-SA	LDW-Y2-SC-ENR+AC-CB-SSWI	7-AUG-19 10:17:10	ST080719Z1	ST080719Z2	BS
07AUG19Z	6	12513-003-0001-SA	LDW-Y2-SC-ENR+AC-CC-SSWI	7-AUG-19 11:15:31	ST080719Z1	ST080719Z2	BS
07AUG19Z	7	12513-005-0001-SA	LDW-Y2-SC-ENR+AC-CE-SSWI	7-AUG-19 12:13:52	ST080719Z1	ST080719Z2	BS
07AUG19Z	8	12513-006-0001-SA	LDW-Y2-SC-ENR-CA-SSWI	7-AUG-19 13:12:13	ST080719Z1	ST080719Z2	BS
07AUG19Z	9	12513-007-0001-SA	LDW-Y2-SC-ENR-CB-SSWI	7-AUG-19 14:10:34	ST080719Z1	ST080719Z2	BS
07AUG19Z	10	12513-008-0001-SA	LDW-Y2-SC-ENR-CC-SSWI	7-AUG-19 15:09:14	ST080719Z1	ST080719Z2	BS
07AUG19Z	11	12513-009-0001-SA	LDW-Y2-SC-ENR-CD-SSWI	7-AUG-19 16:08:01	ST080719Z1	ST080719Z2	BS
07AUG19Z	12	12513-010-0001-SA	LDW-Y2-SC-ENR-CE-SSWI	7-AUG-19 17:06:22	ST080719Z1	ST080719Z2	BS
07AUG19Z	13	12513-011-0001-SA	LDW-Y2-SC-ENR+AC-CA/AC-CD-SS	7-AUG-19 18:05:08	ST080719Z1	ST080719Z2	BS
07AUG19Z	14	SB080719Z1	Solvent Blank	7-AUG-19 19:03:29	ST080719Z1	ST080719Z2	BS
07AUG19Z	15	ST080719Z2	1668 CS3 R181204D	7-AUG-19 20:01:51	ST080719Z1	ST080719Z2	BS

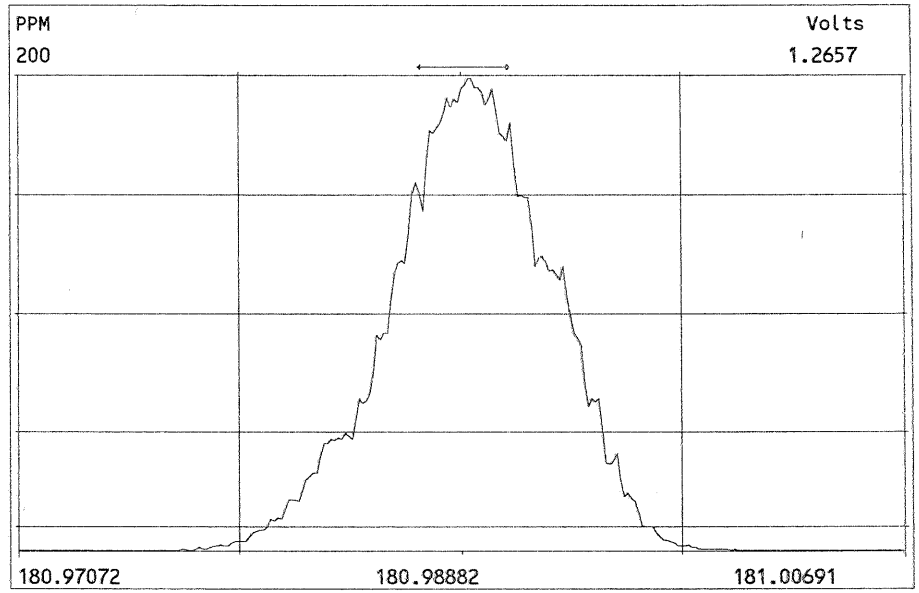
8/8/19

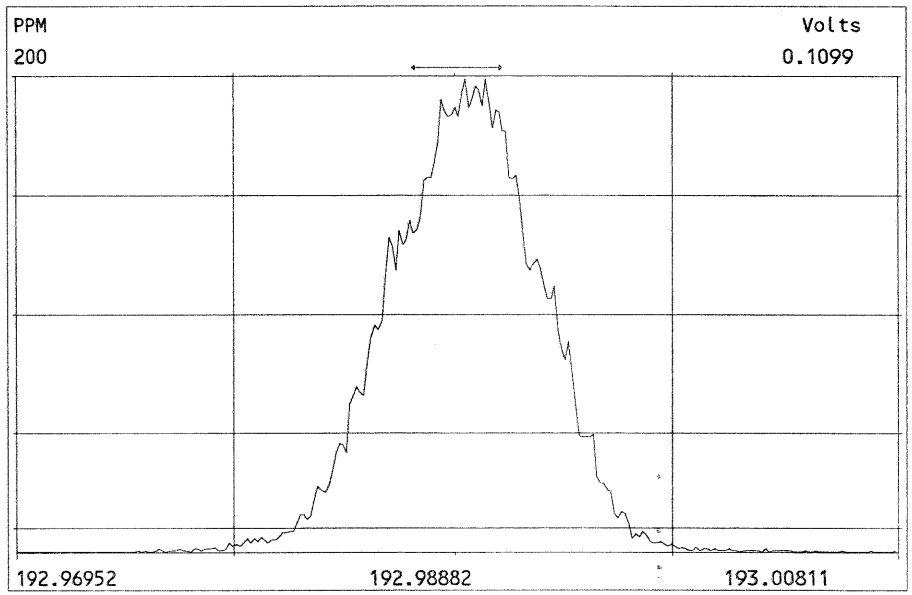
Data Backed Up:_____

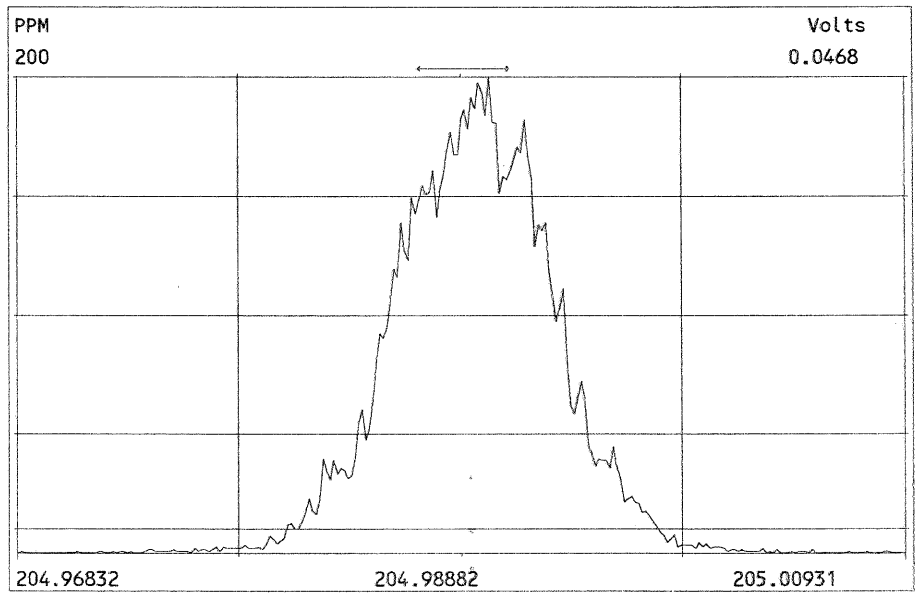
Date:_____

Peak Locate Examination: 7-AUG-2019:06:21 File:07AUG19Z
Experiment:1668PCB Function:1 Reference:PFK

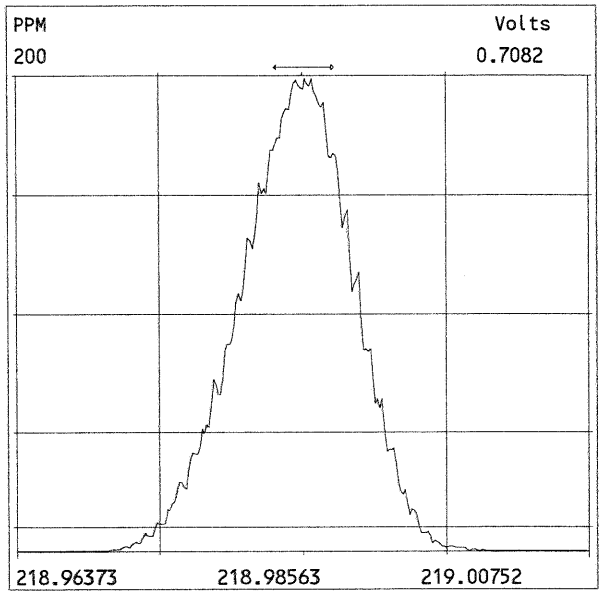


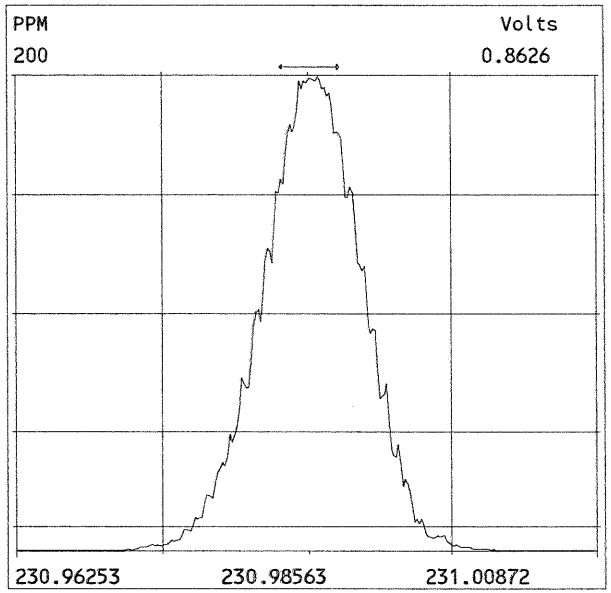


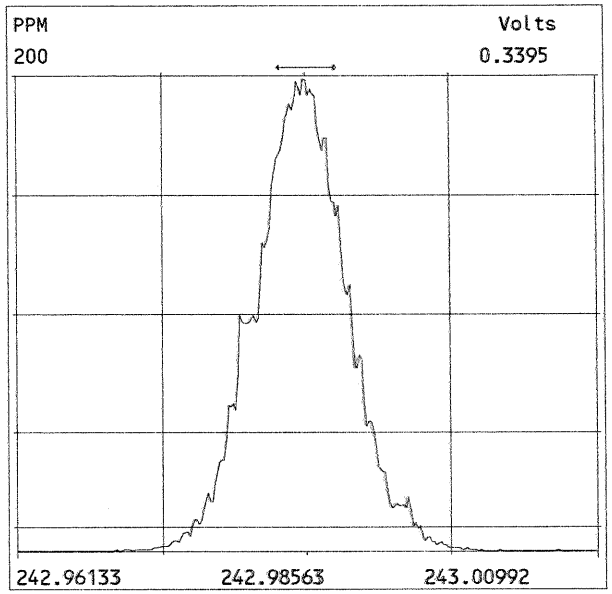


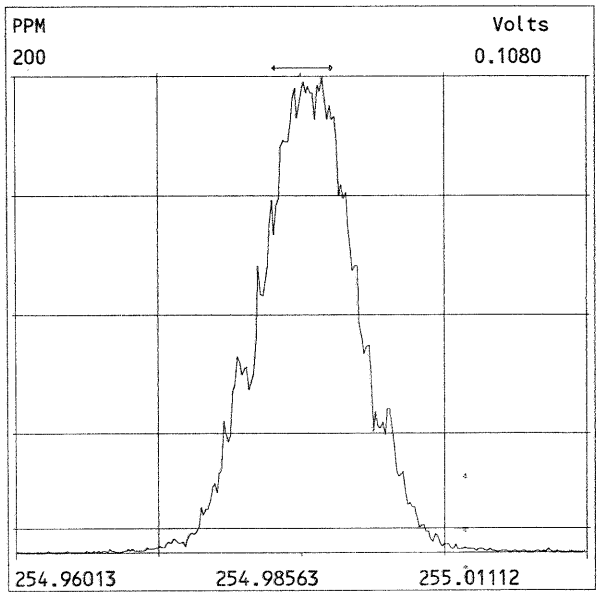


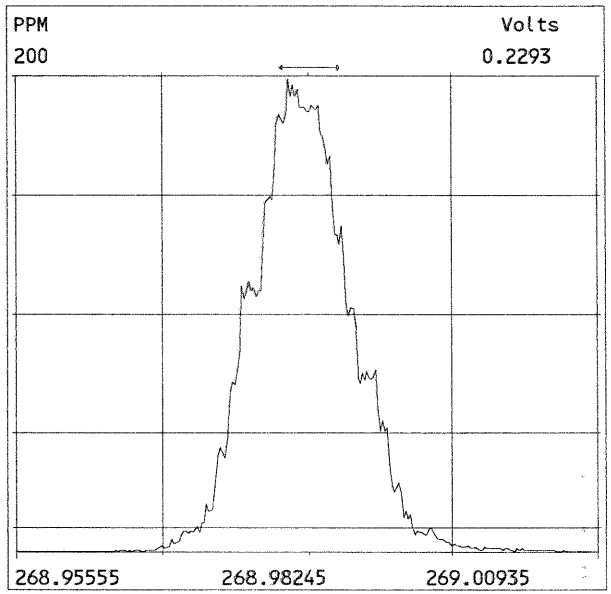
Peak Locate Examination: 7-AUG-2019:06:21 File:07AUG19Z
Experiment:1668PCB Function:2 Reference:PFK

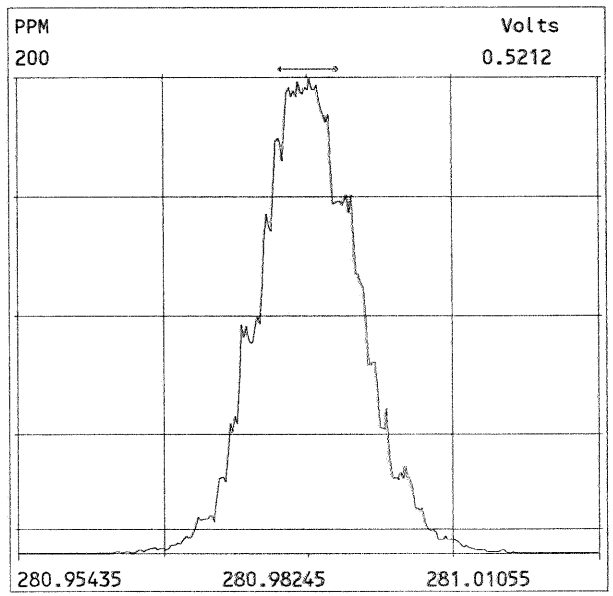




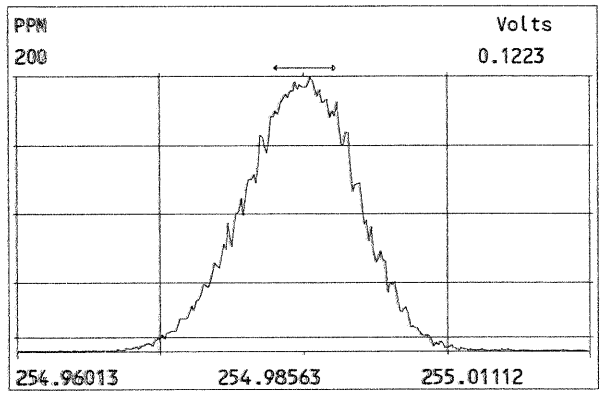


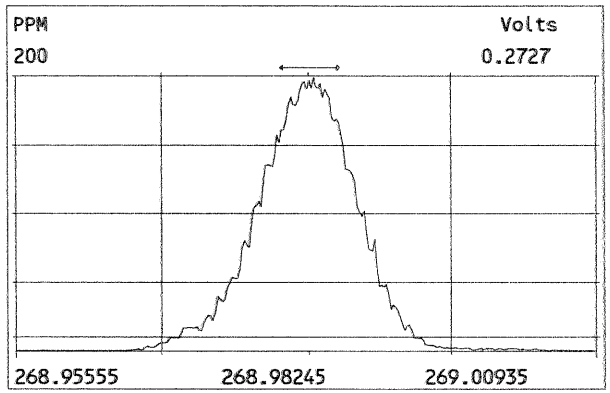


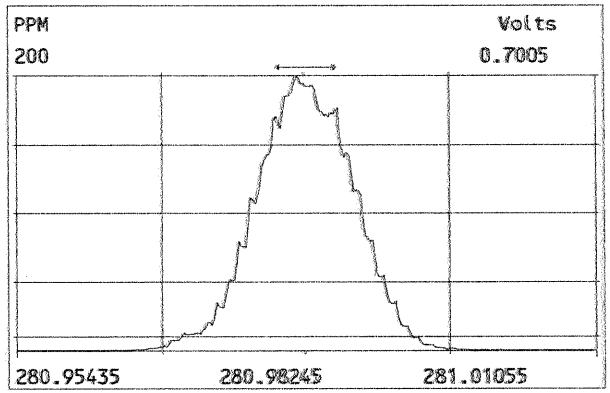


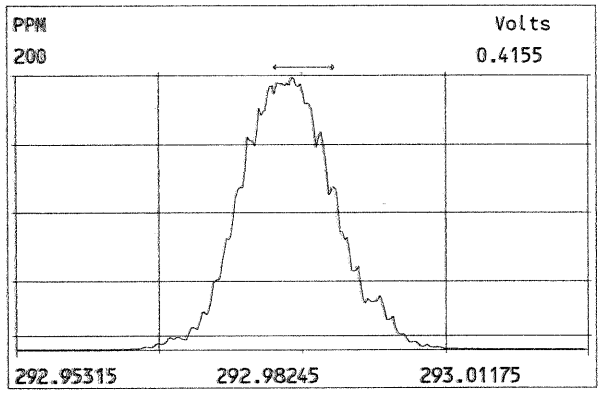


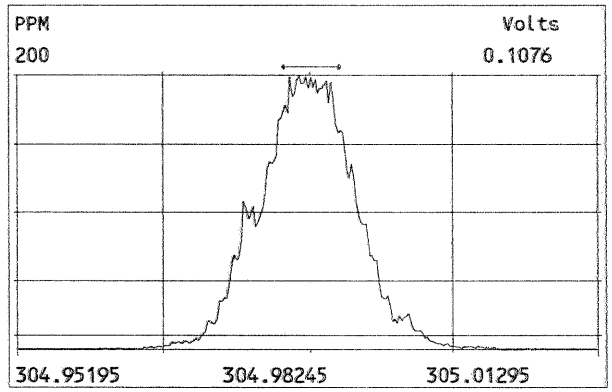
Peak Locate Examination: 7-AUG-2019:06:22 File:07AUG19Z
Experiment:1668PCB Function:3 Reference:PFK

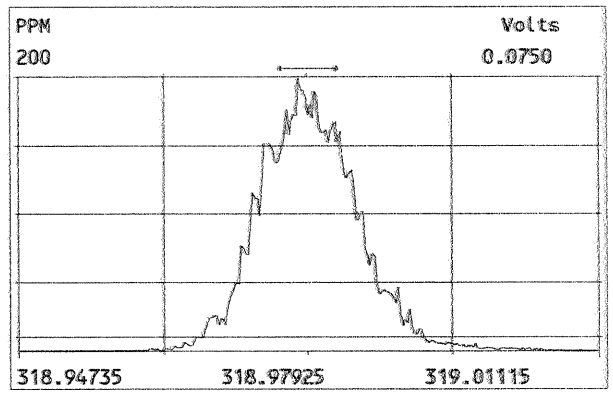


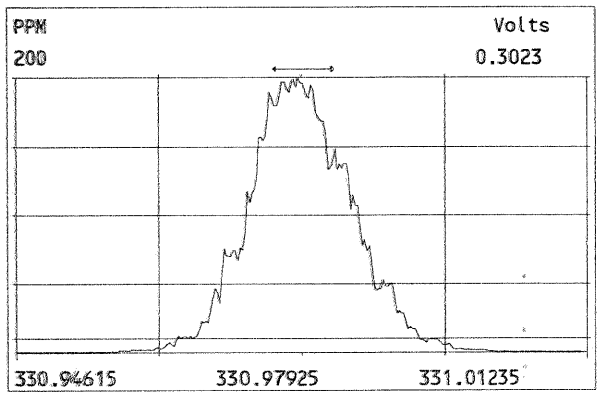


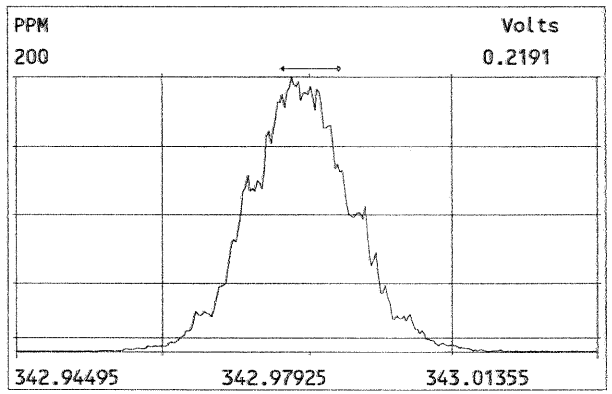




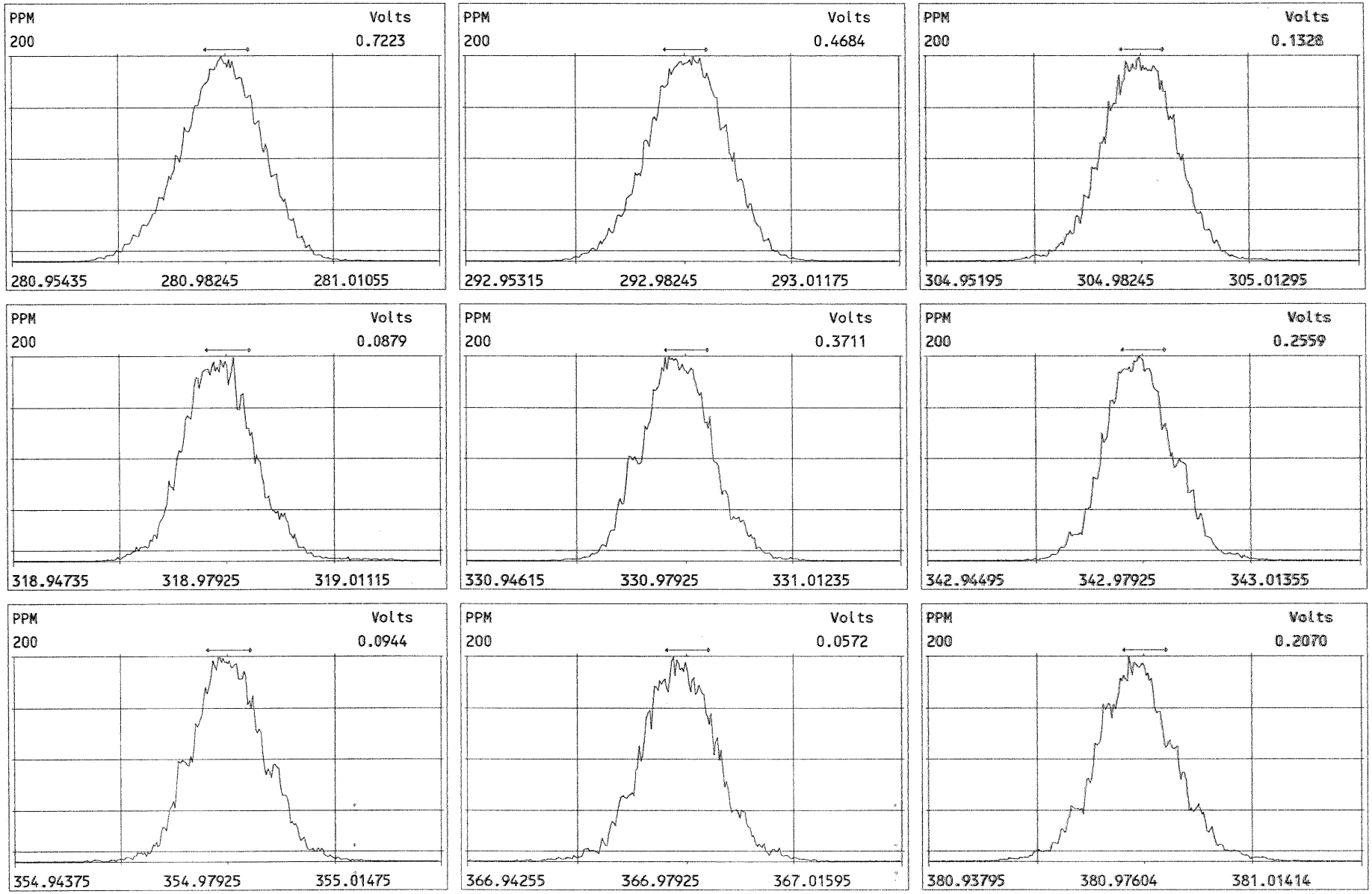




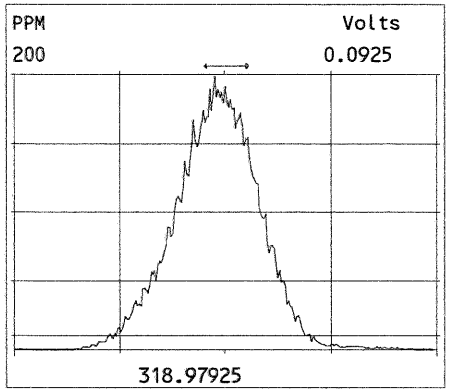


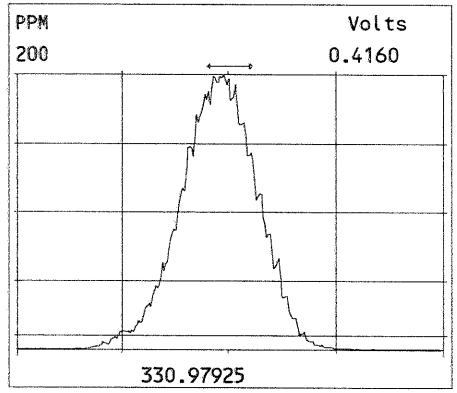


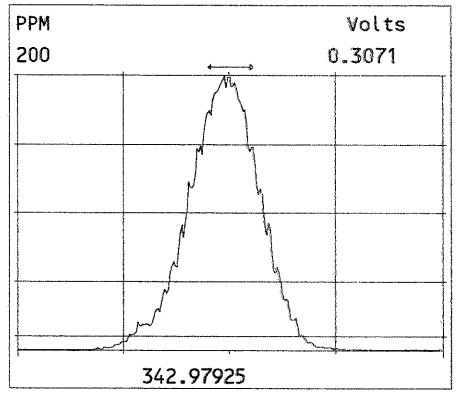
Peak Locate Examination: 7-AUG-2019:06:22 File:07AUG19Z
Experiment:1668PCB Function:4 Reference:PFK

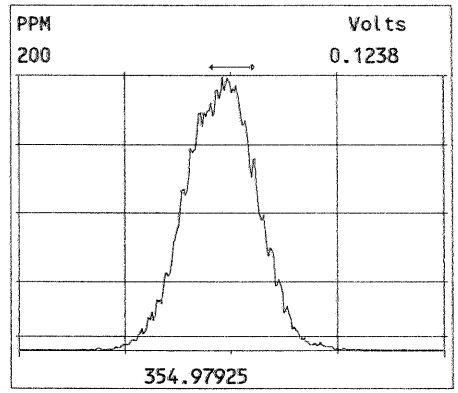


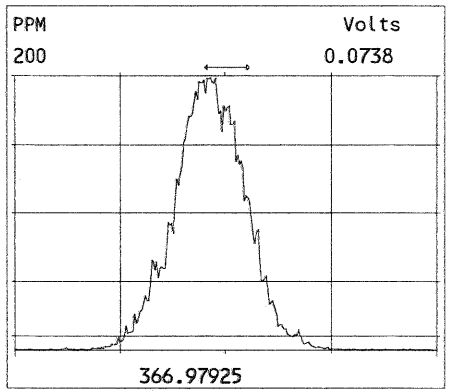
Peak Locate Examination: 7-AUG-2019:06:22 File:07AUG19Z
Experiment:1668PCB Function:5 Reference:PFK

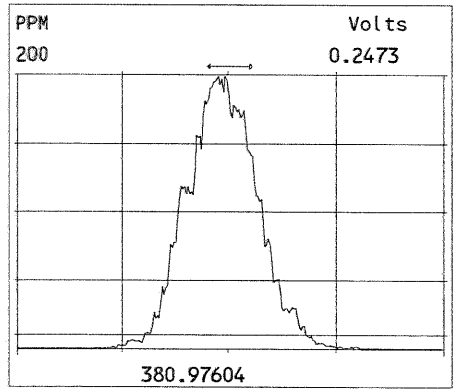


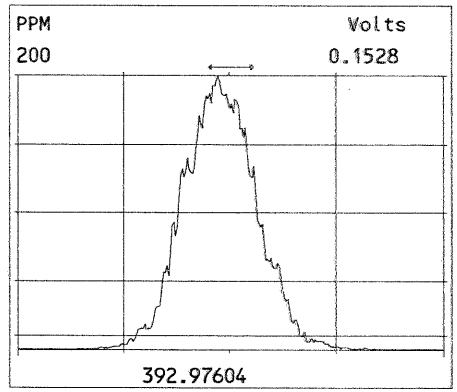


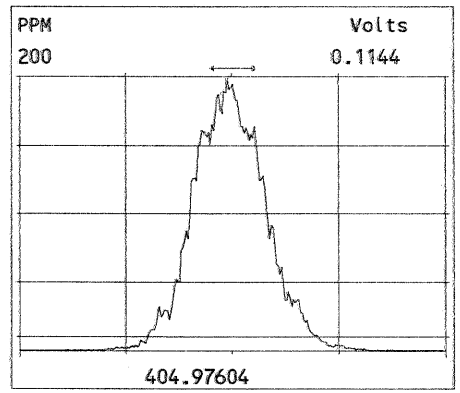


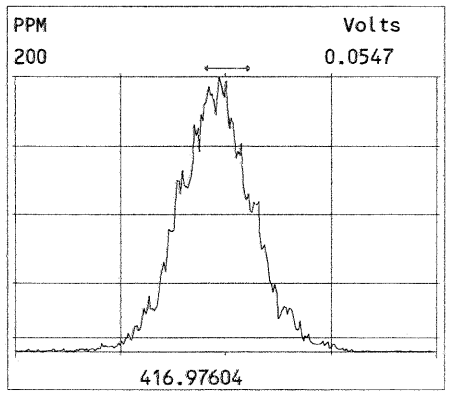


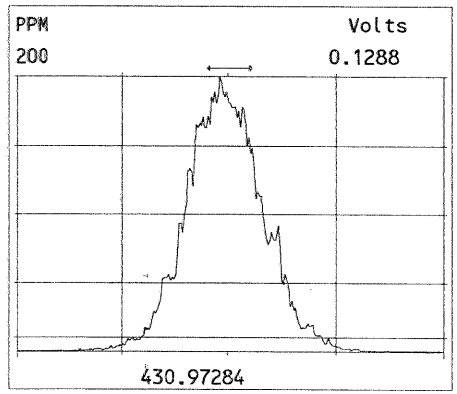


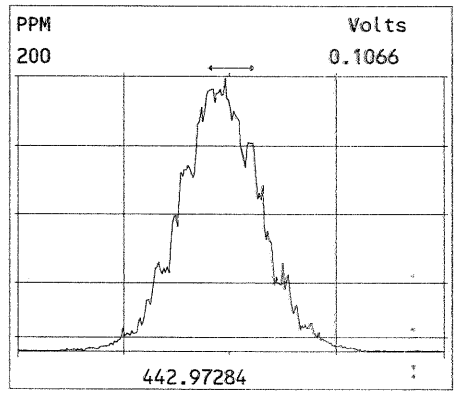




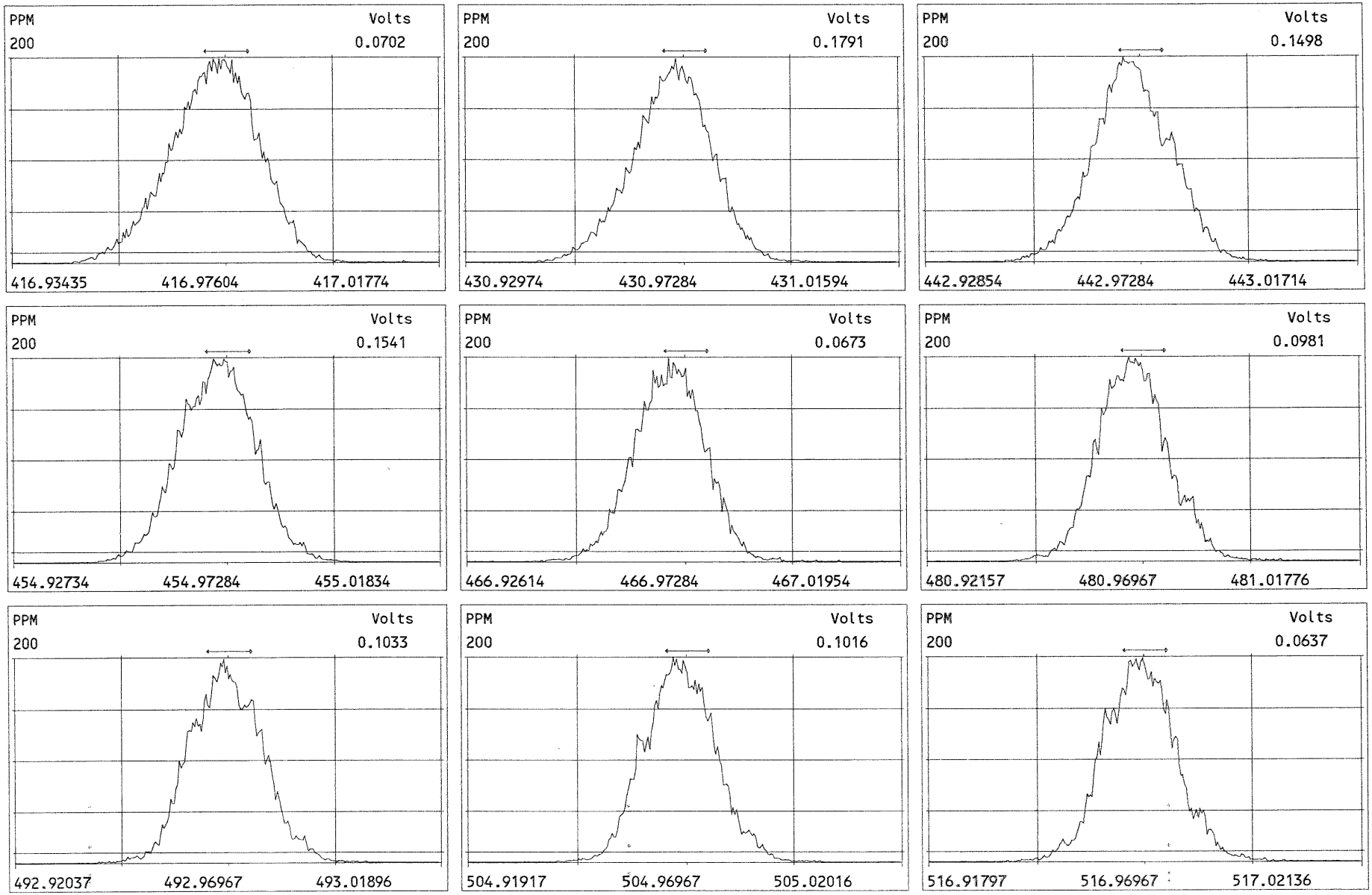




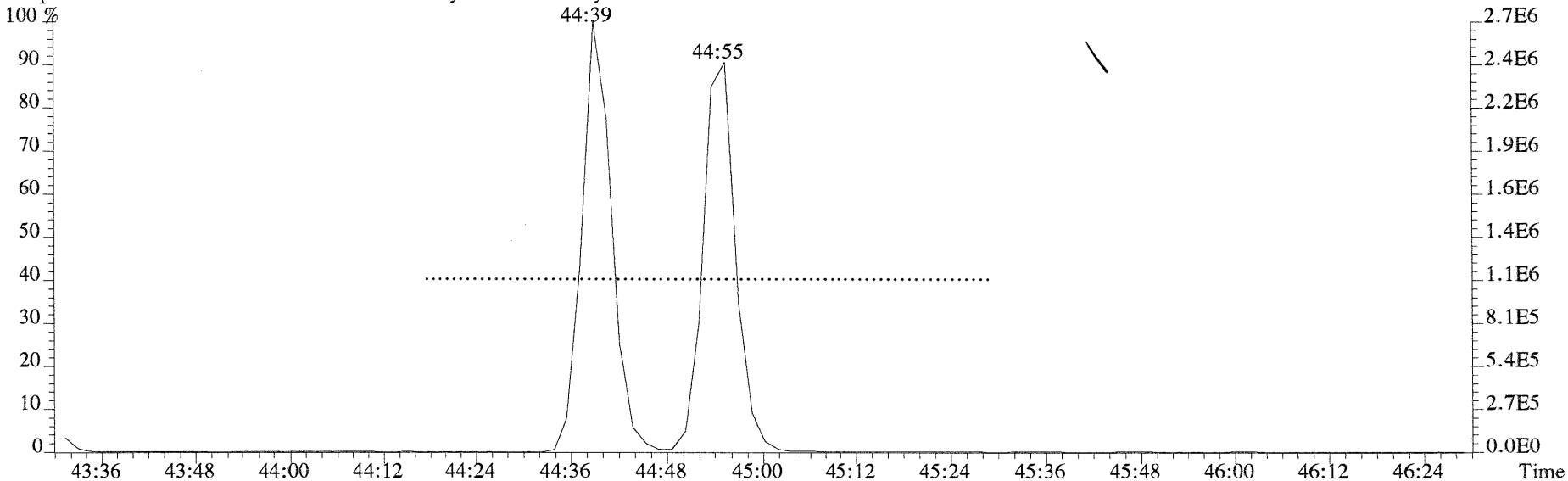




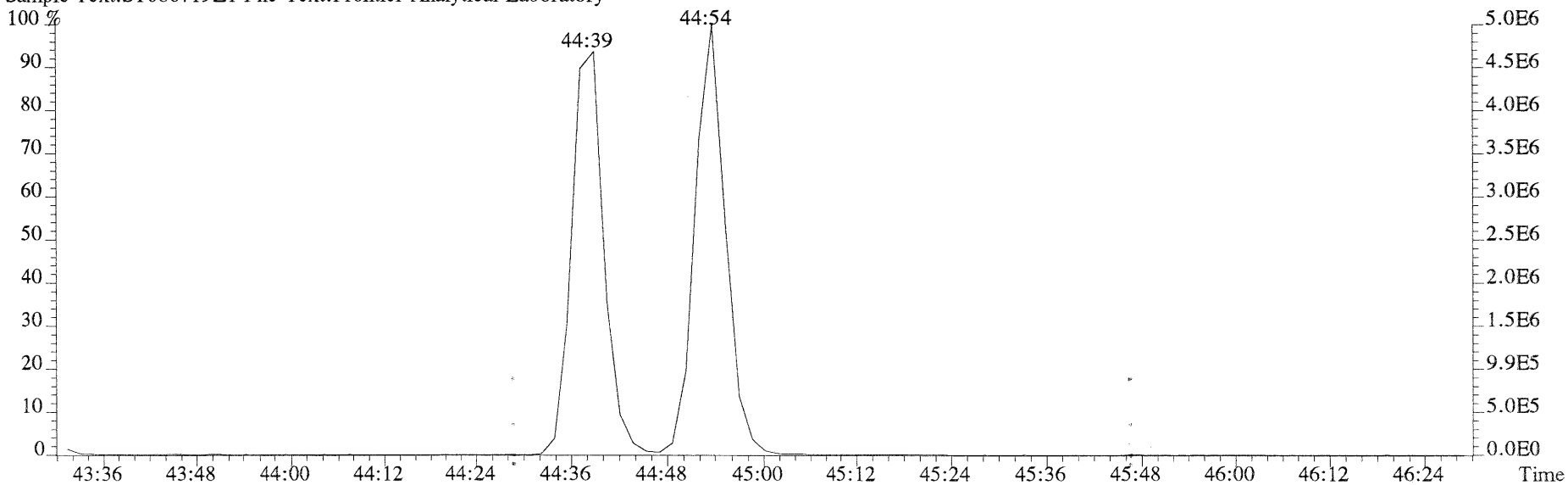
Peak Locate Examination: 7-AUG-2019:06:23 File:07AUG19Z
Experiment:1668PCB Function:6 Reference:PFK



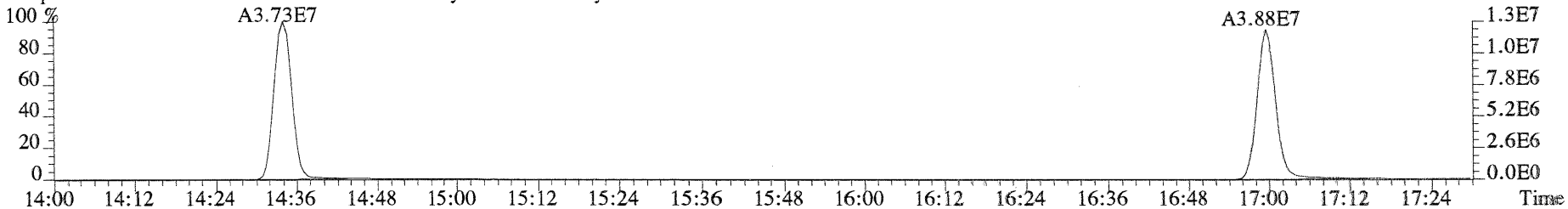
File:07AUG19Z #1-405 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



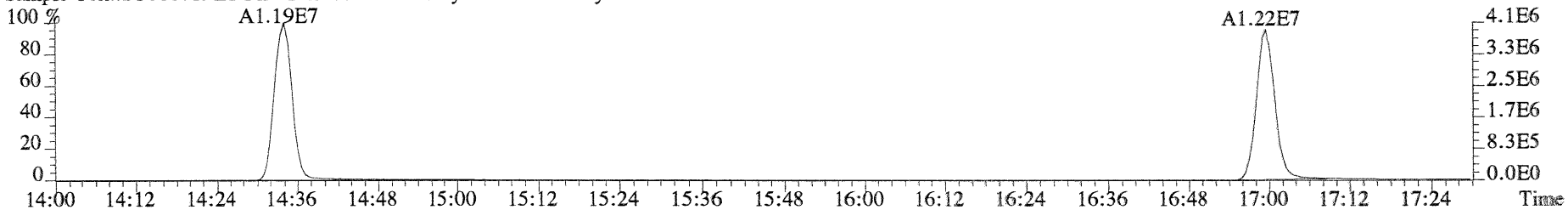
File:07AUG19Z #1-405 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



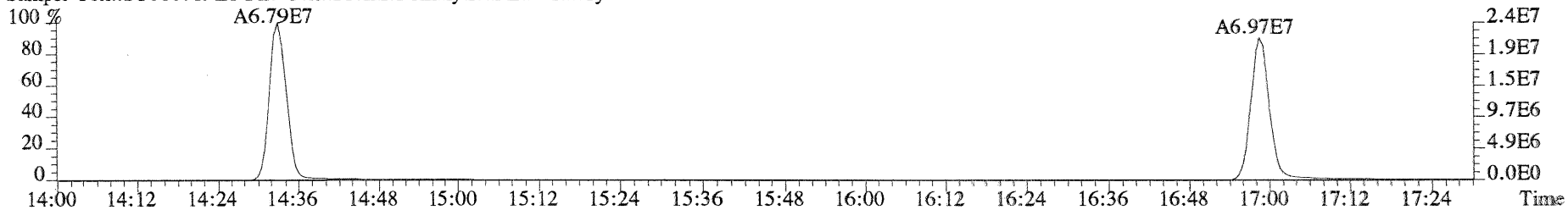
File:07AUG19Z #1-783 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



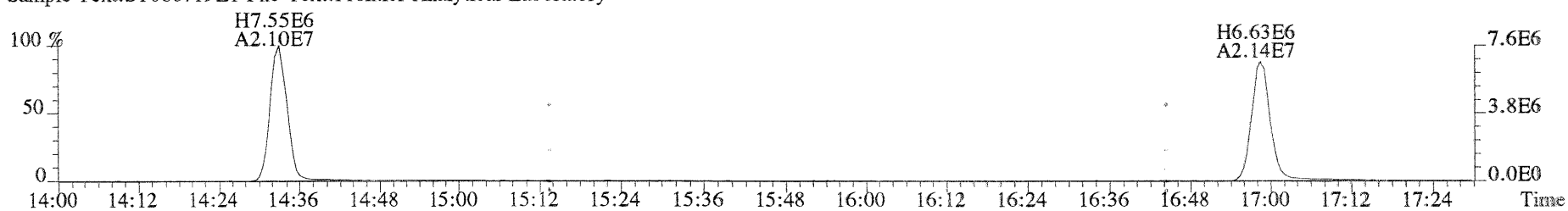
File:07AUG19Z #1-783 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



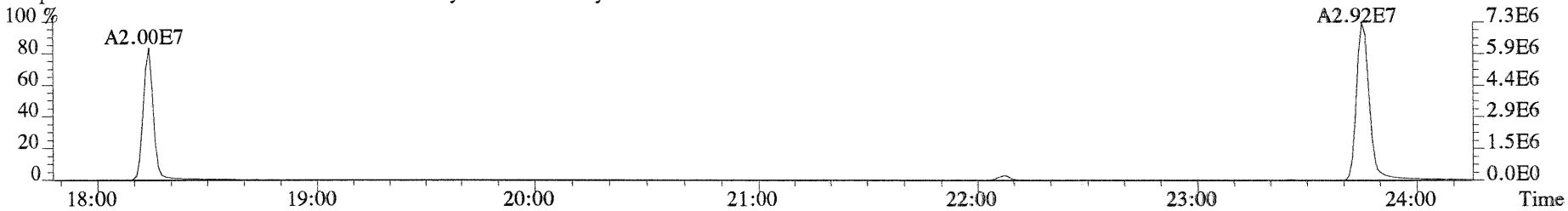
File:07AUG19Z #1-783 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



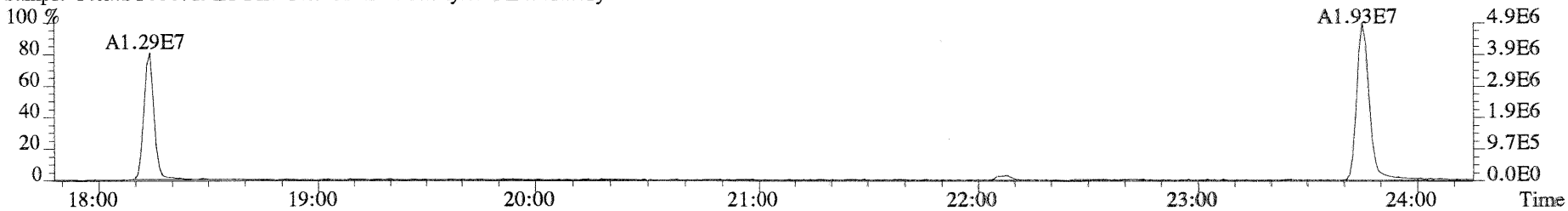
File:07AUG19Z #1-783 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



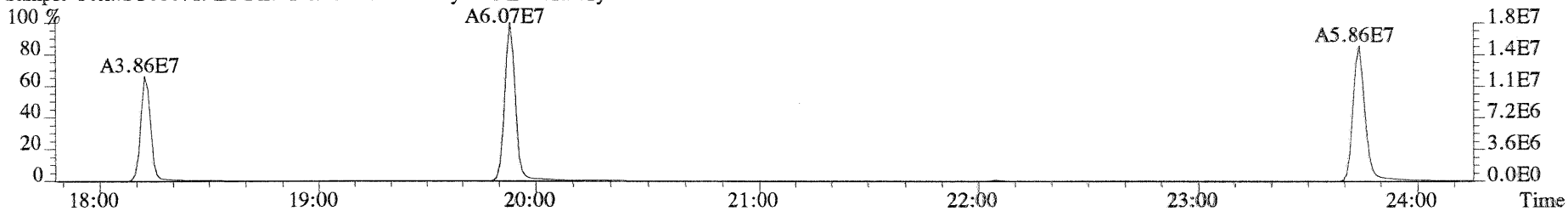
File:07AUG19Z #1-520 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



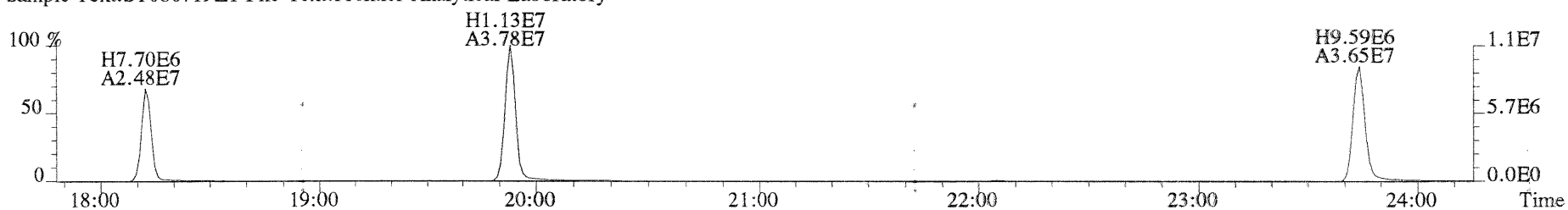
File:07AUG19Z #1-520 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
223.9975 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



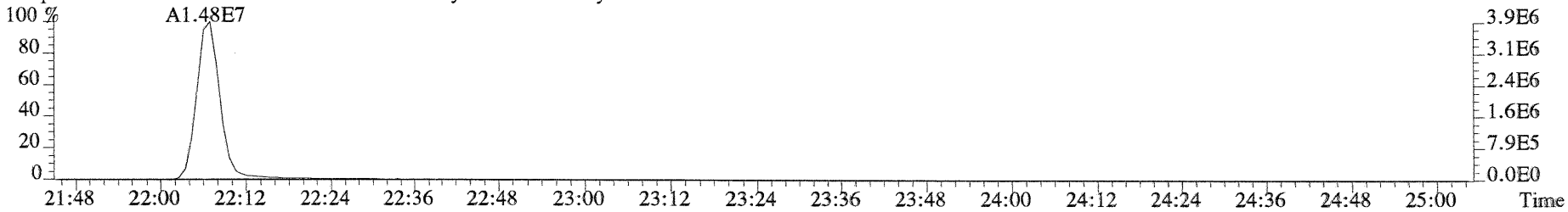
File:07AUG19Z #1-520 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



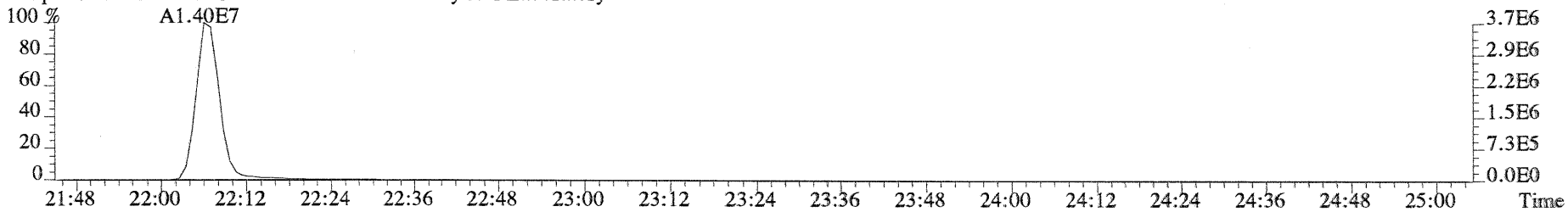
File:07AUG19Z #1-520 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



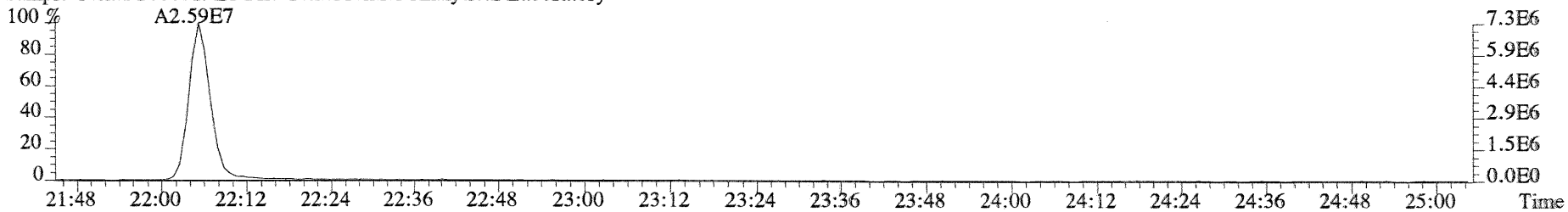
File:07AUG19Z #1-520 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



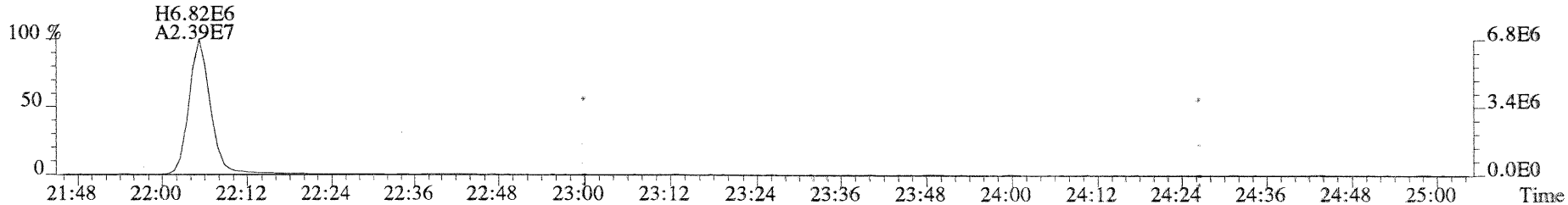
File:07AUG19Z #1-520 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



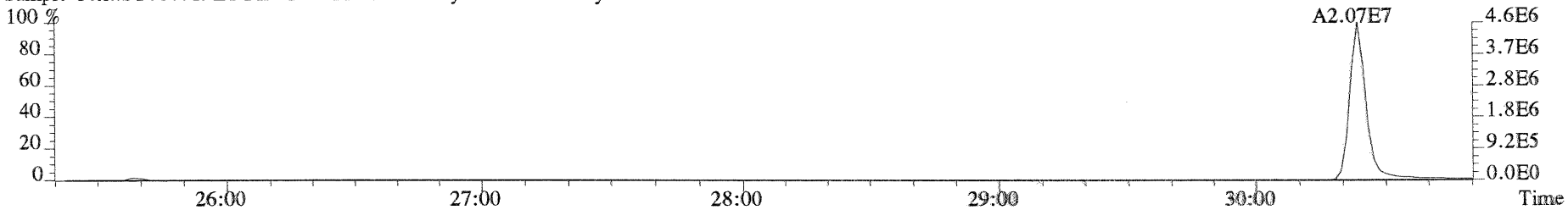
File:07AUG19Z #1-520 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



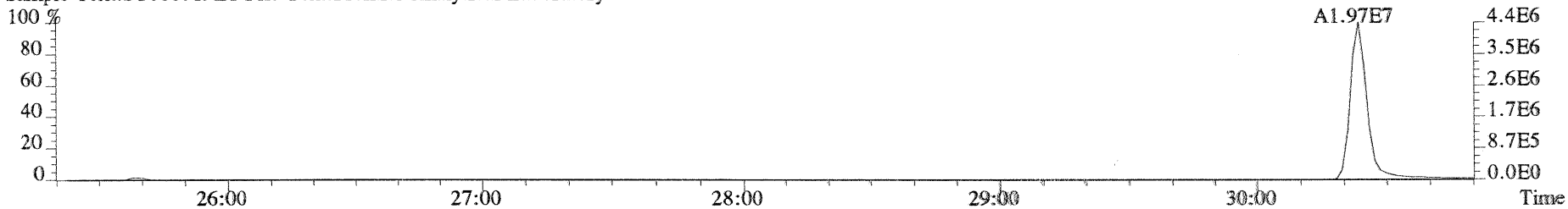
File:07AUG19Z #1-520 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



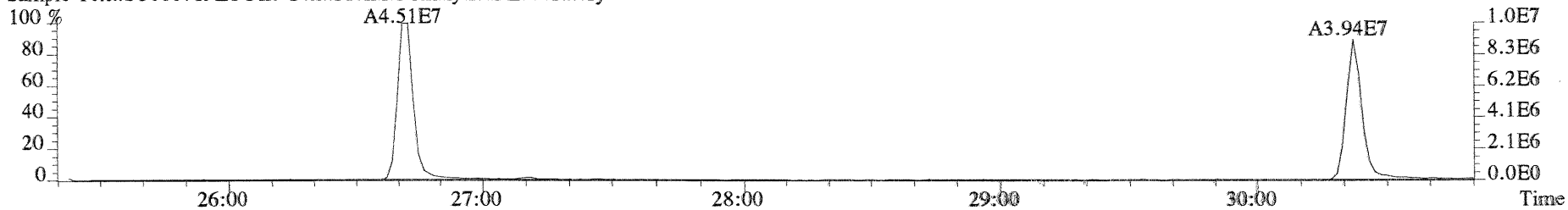
File:07AUG19Z #1-401 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



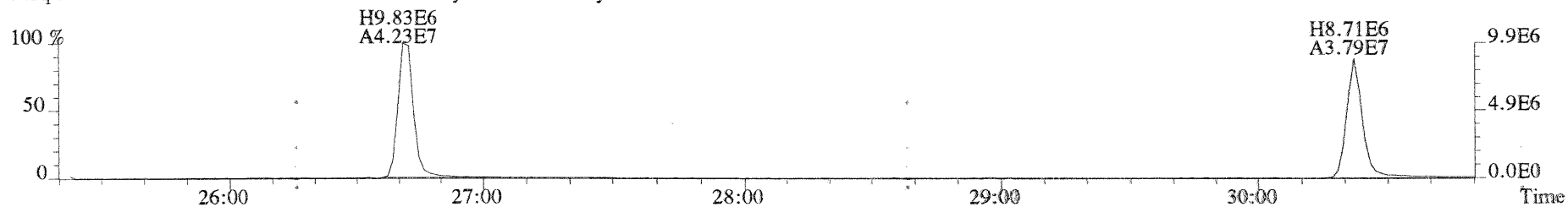
File:07AUG19Z #1-401 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-401 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-401 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-401 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
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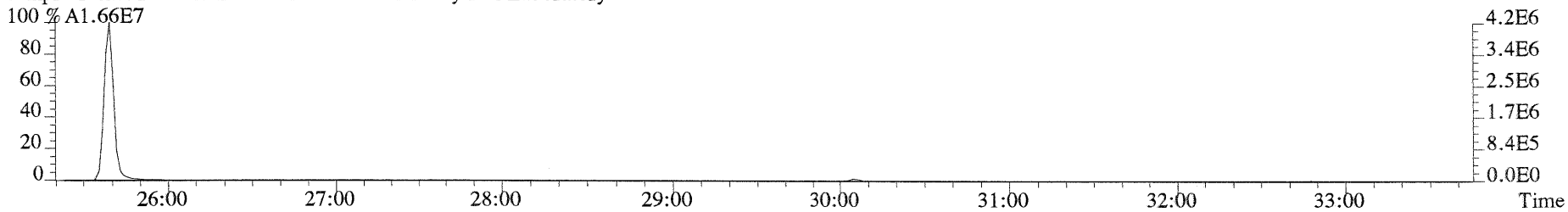
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



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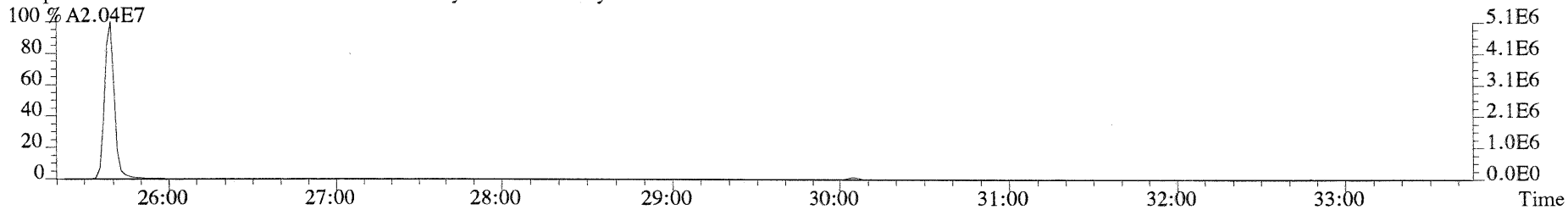
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



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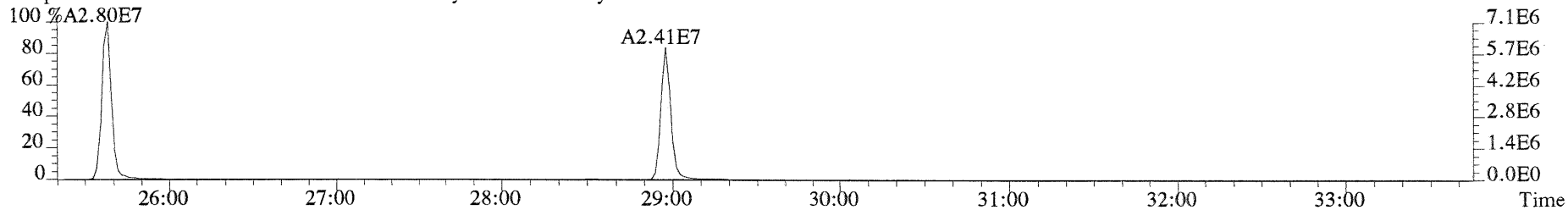
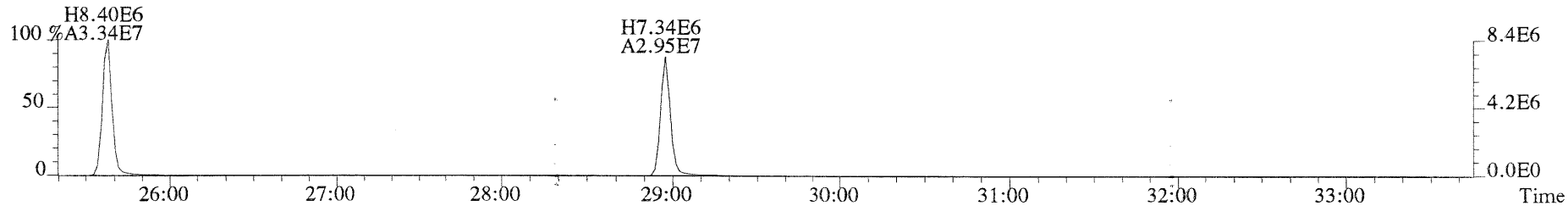
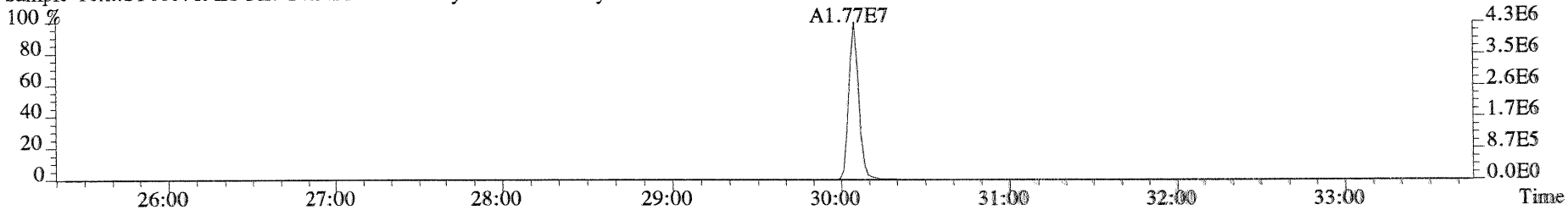
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



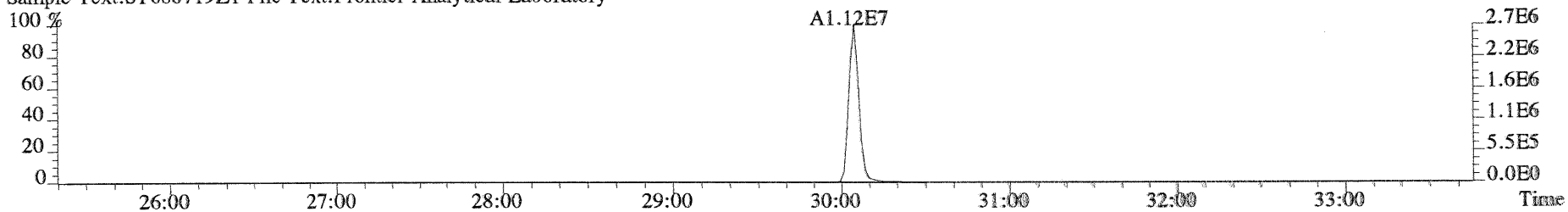
File:07AUG19Z #1-401 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



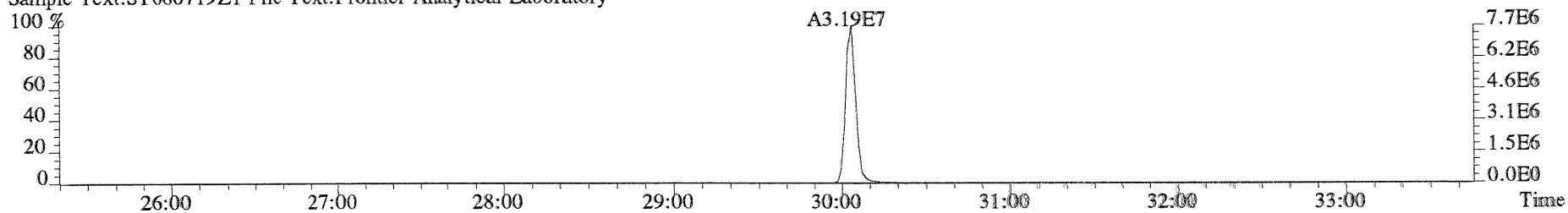
File:07AUG19Z #1-401 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



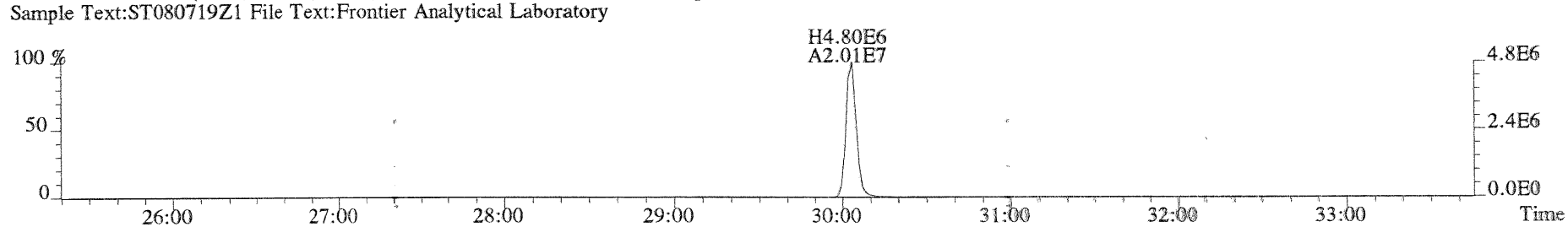
File:07AUG19Z #1-401 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



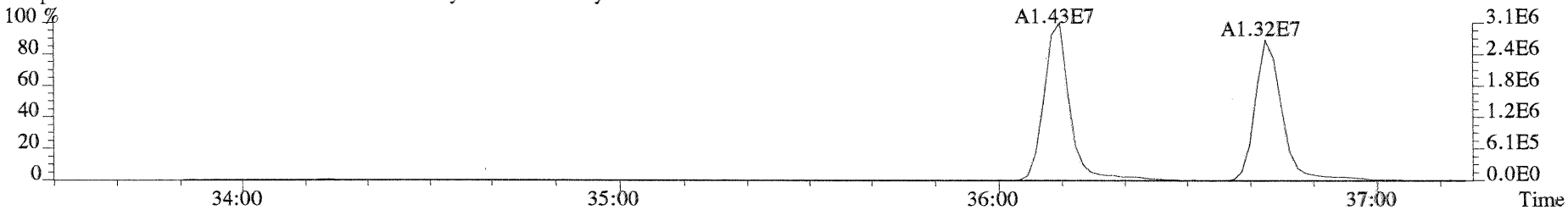
File:07AUG19Z #1-401 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



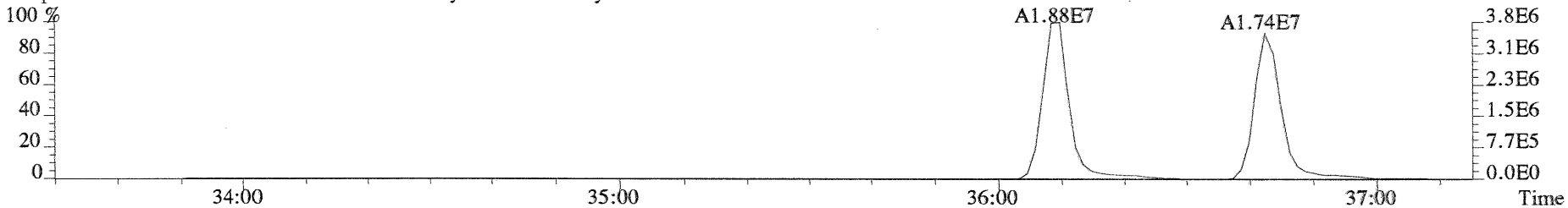
File:07AUG19Z #1-401 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



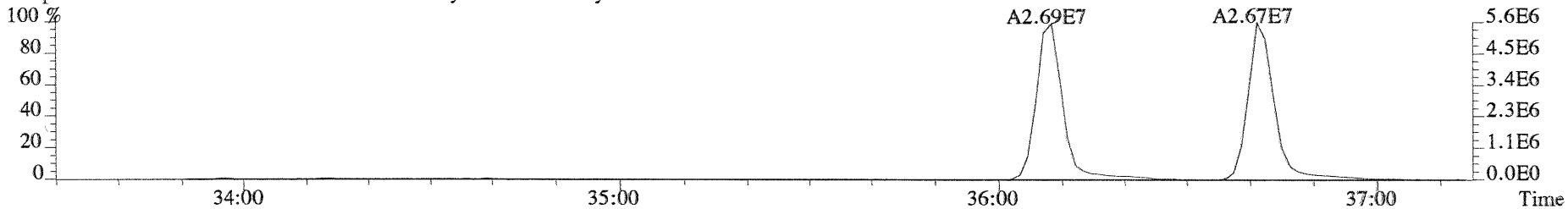
File:07AUG19Z #1-181 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



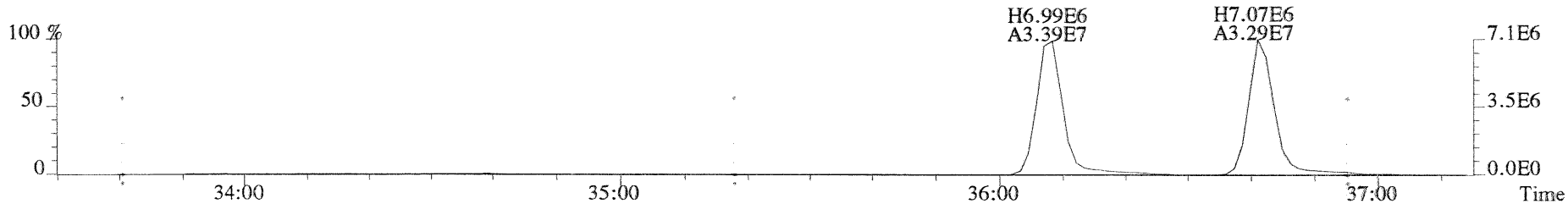
File:07AUG19Z #1-181 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



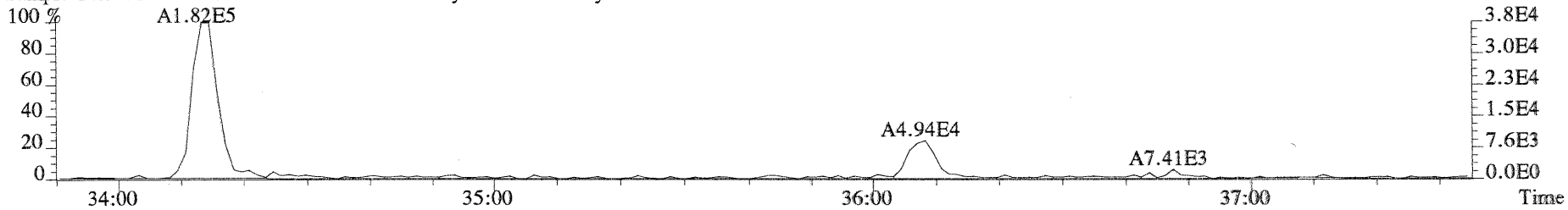
File:07AUG19Z #1-181 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



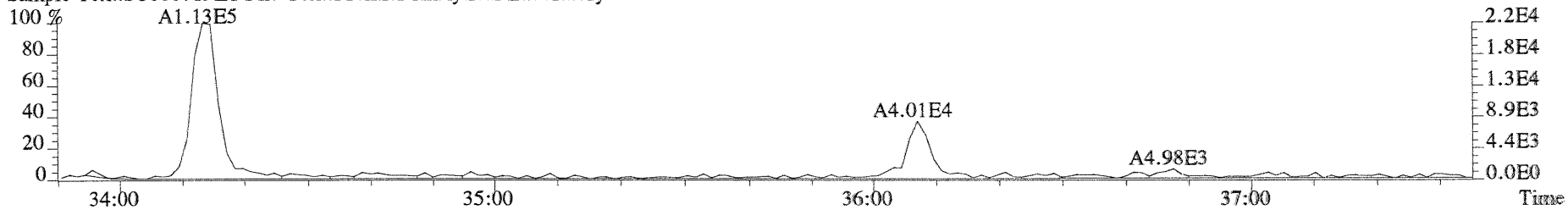
File:07AUG19Z #1-181 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



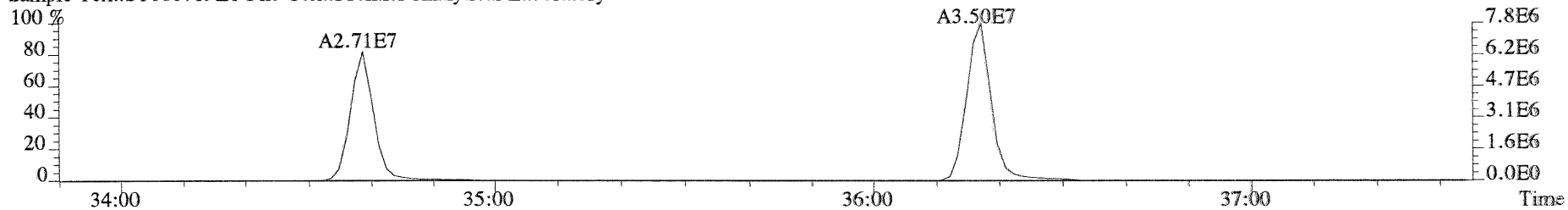
File:07AUG19Z #1-181 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-181 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-181 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-181 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
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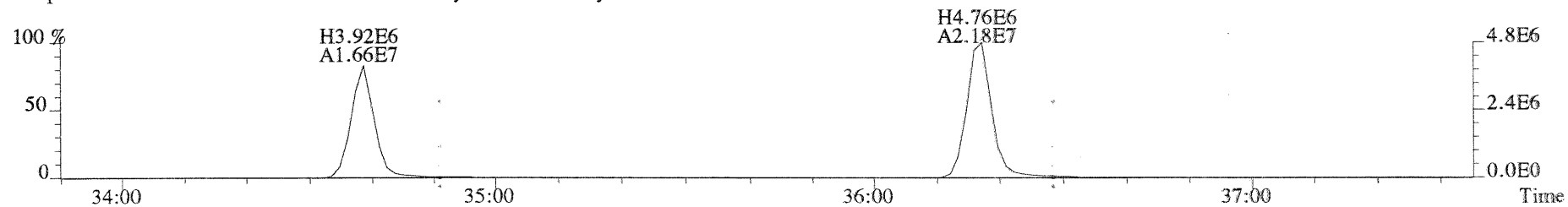
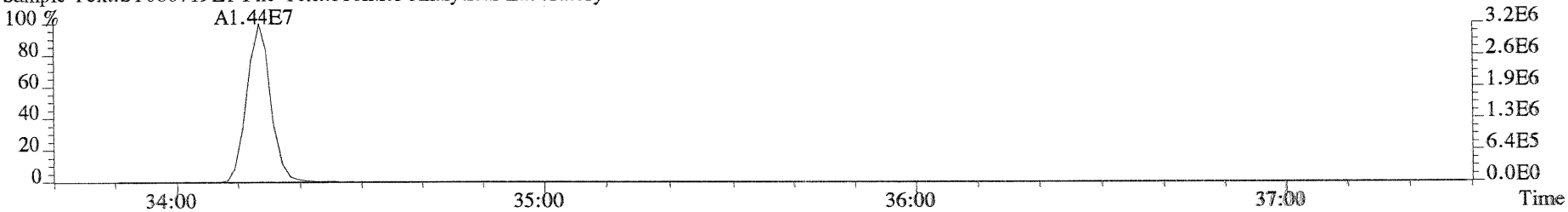
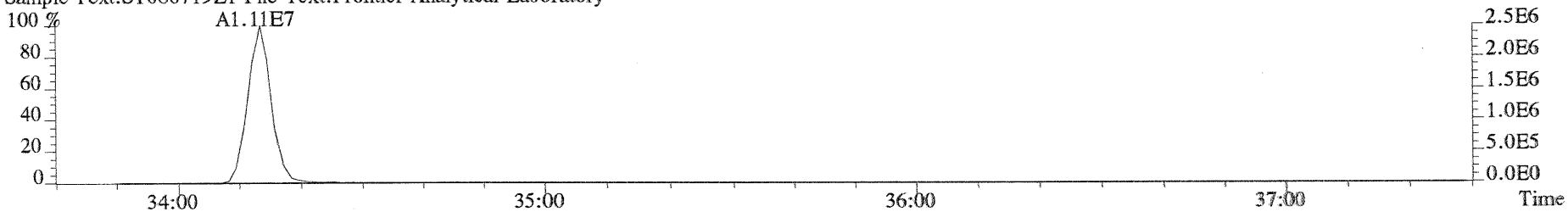
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-181 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-181 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



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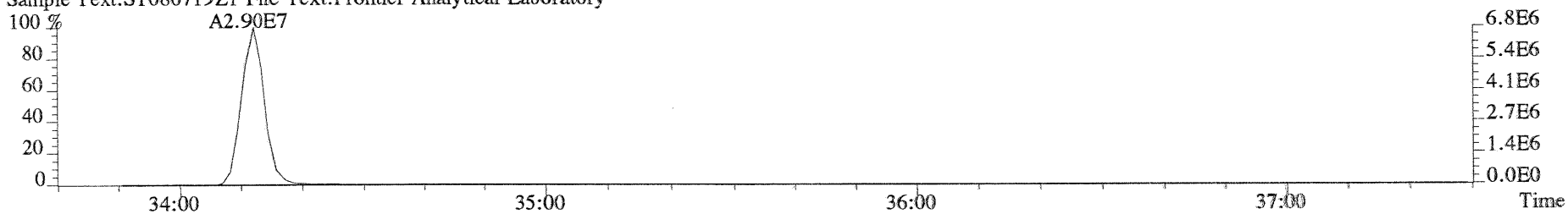
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



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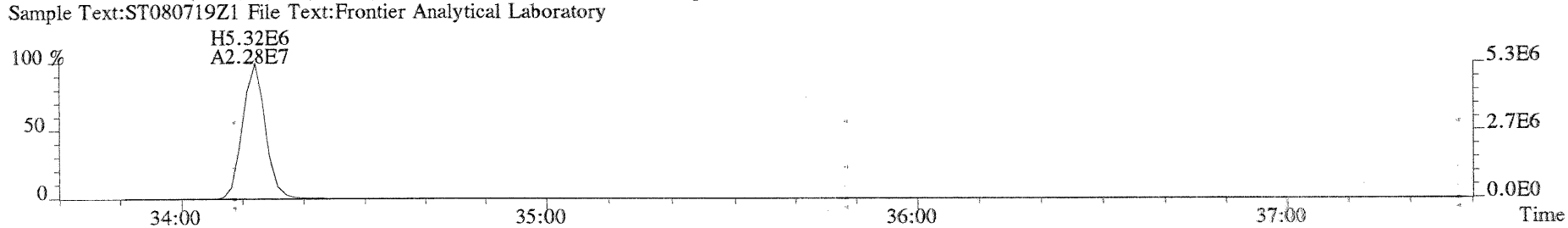
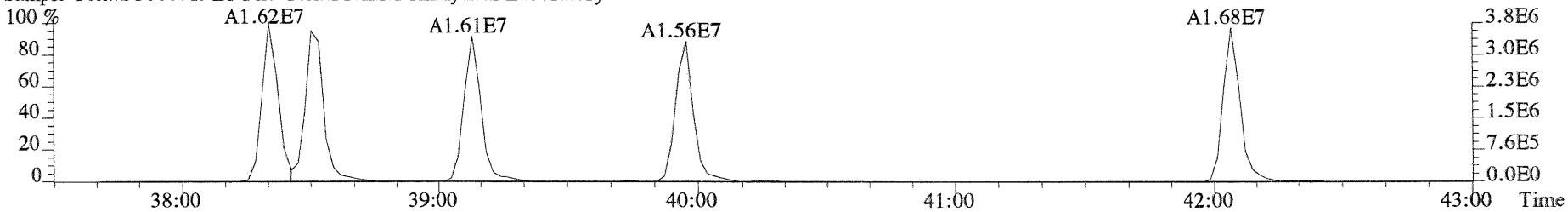
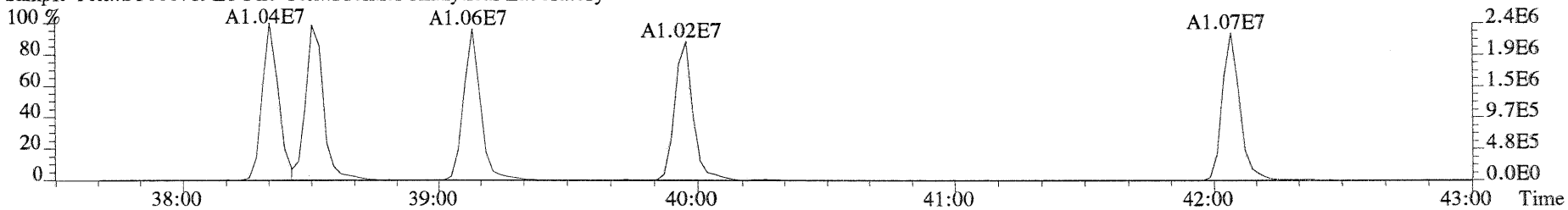
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-405 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-405 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



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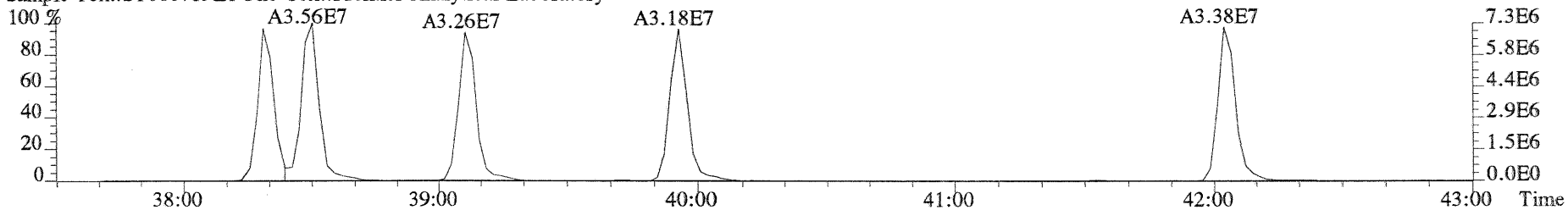
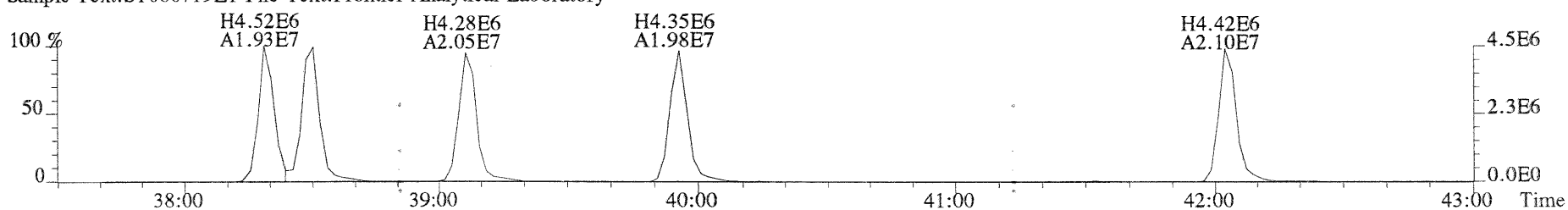
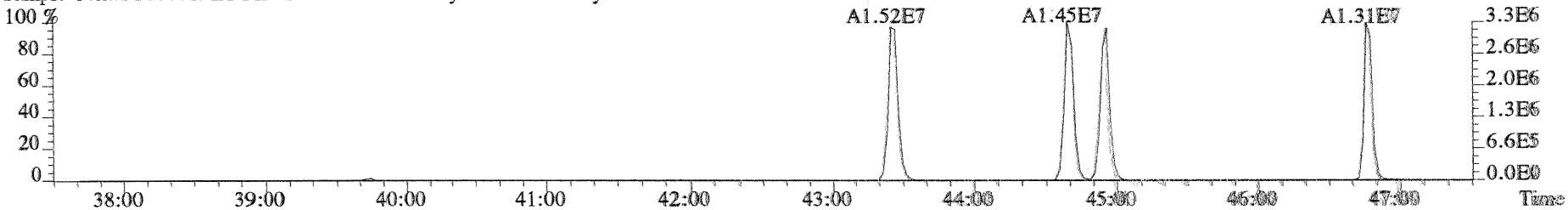
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



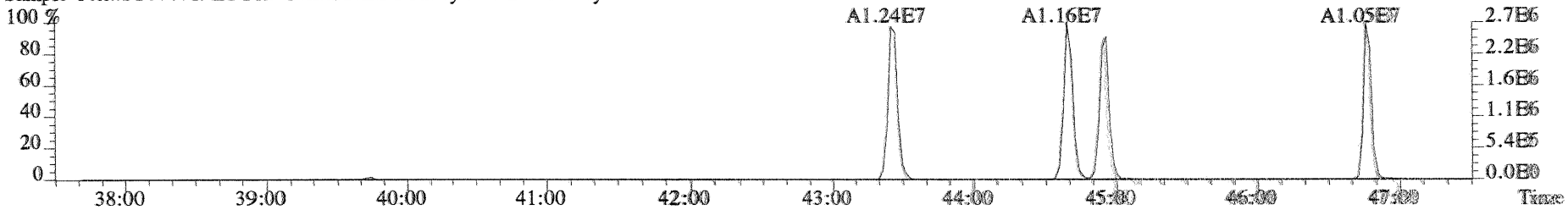
File:07AUG19Z #1-405 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



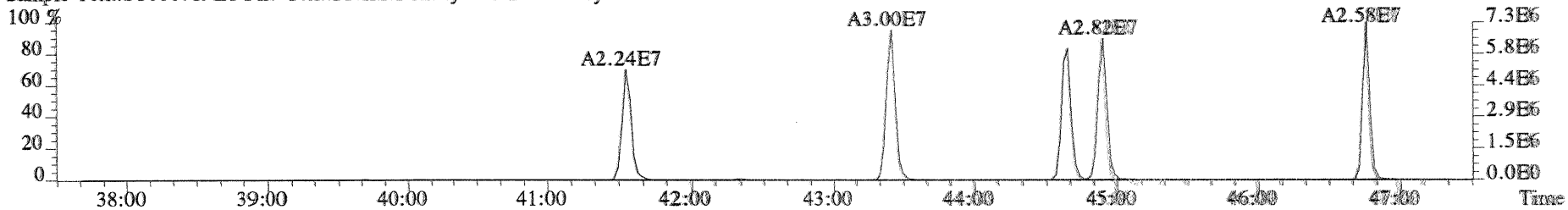
File:07AUG19Z #1-405 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-405 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-405 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-405 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
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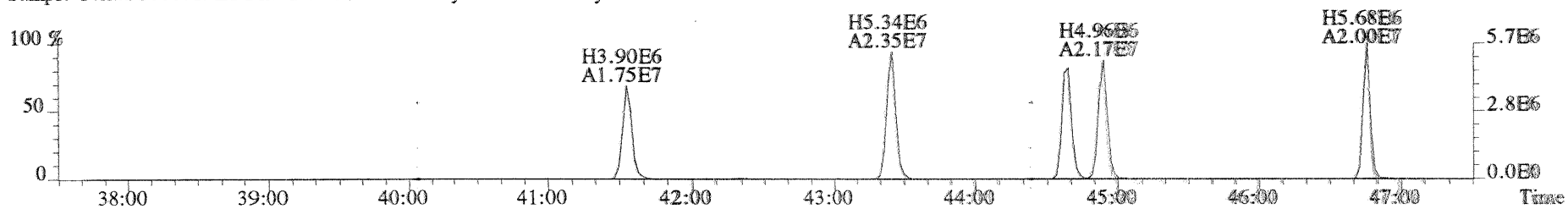
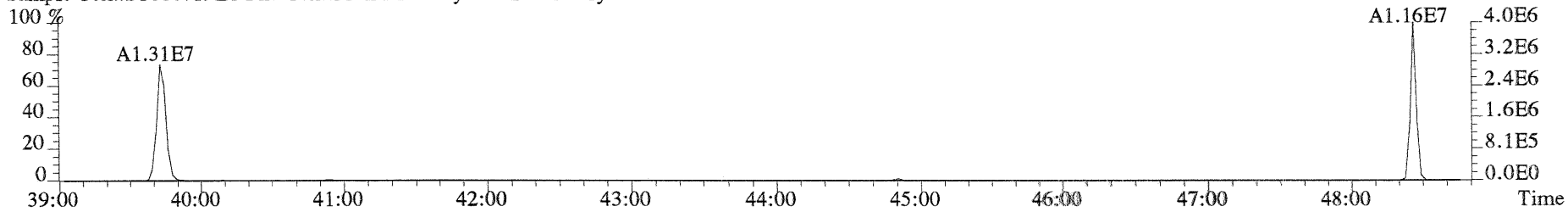
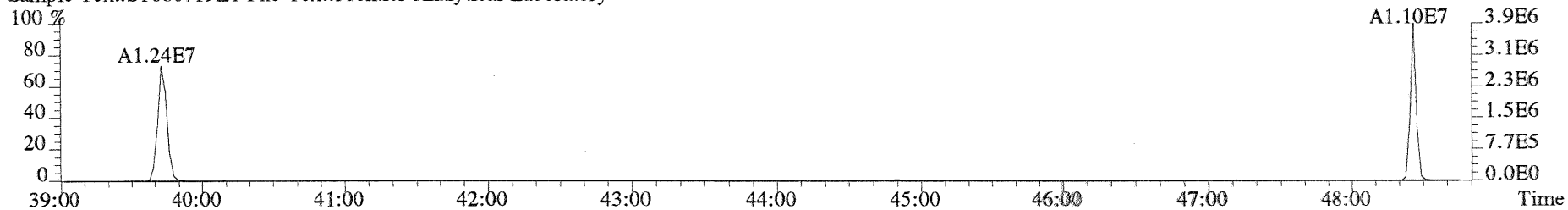
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



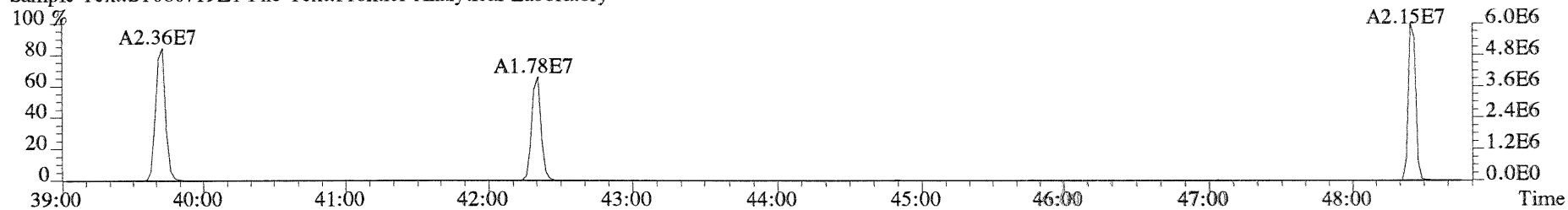
File:07AUG19Z #1-405 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



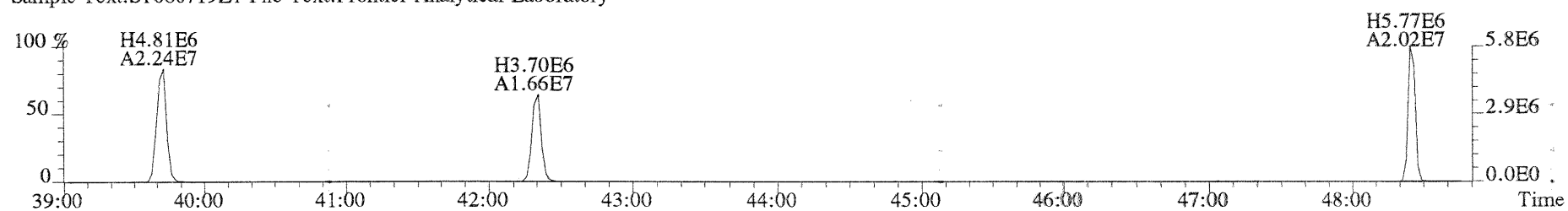
File:07AUG19Z #1-405 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



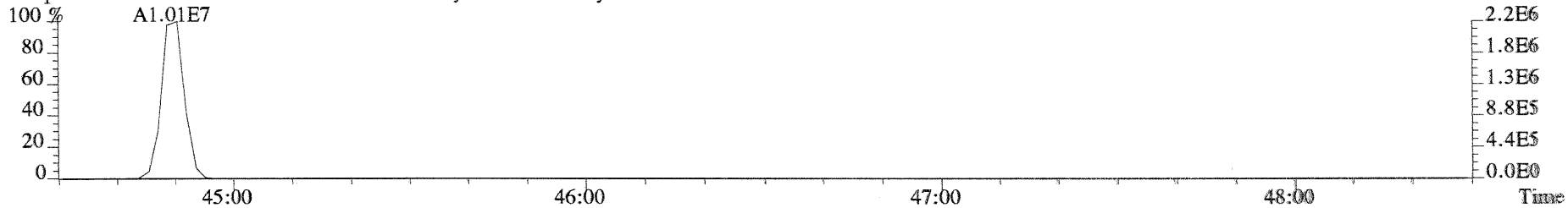
File:07AUG19Z #1-405 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



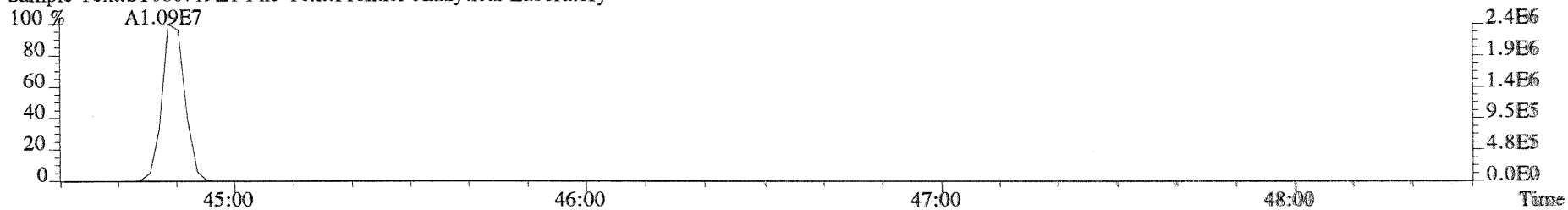
File:07AUG19Z #1-405 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



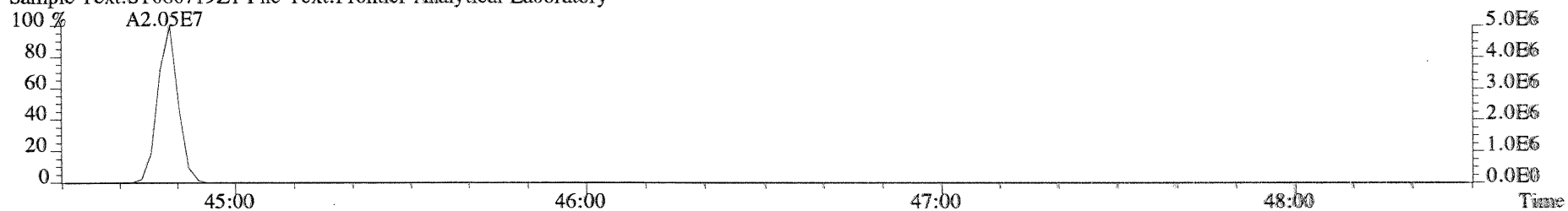
File:07AUG19Z #1-405 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



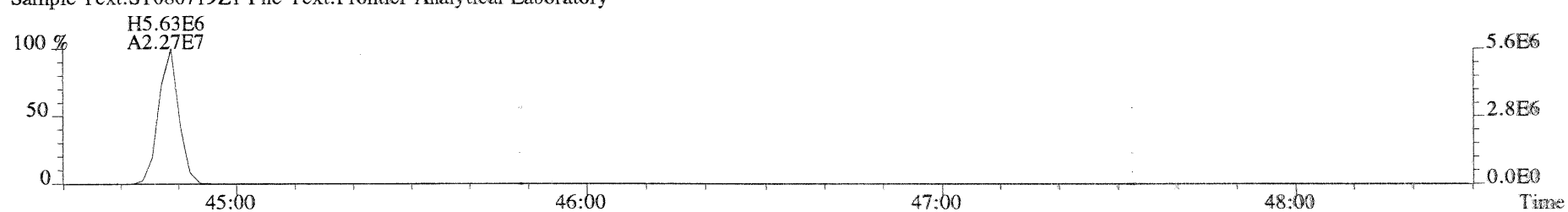
File:07AUG19Z #1-405 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



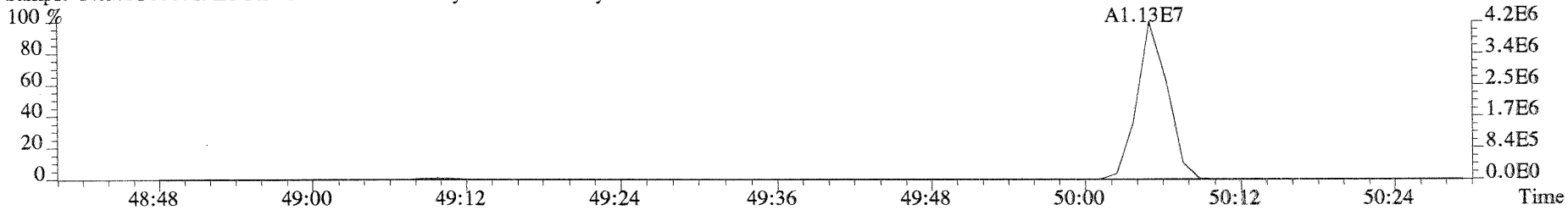
File:07AUG19Z #1-405 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



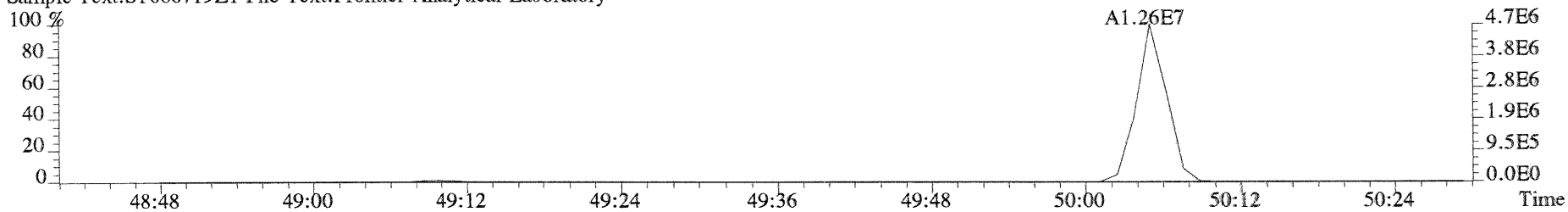
File:07AUG19Z #1-405 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



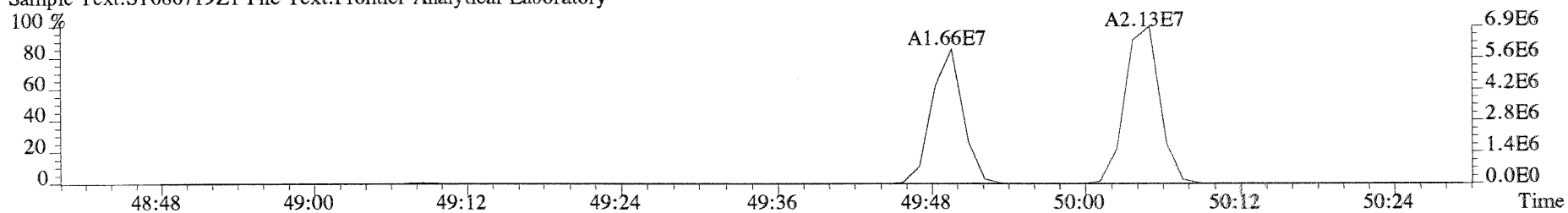
File:07AUG19Z #1-315 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



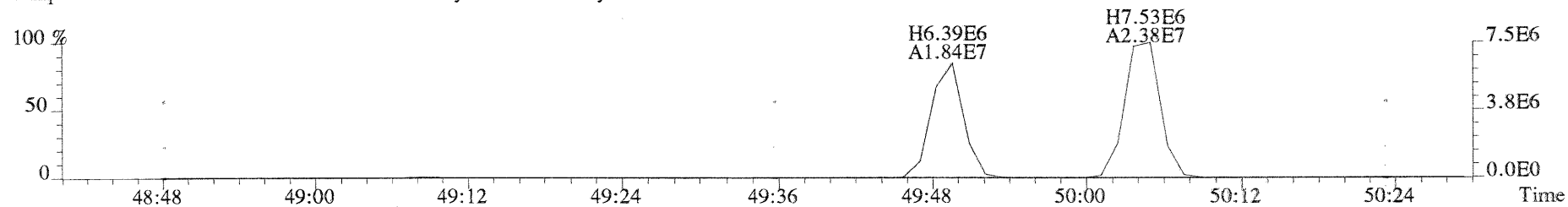
File:07AUG19Z #1-315 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



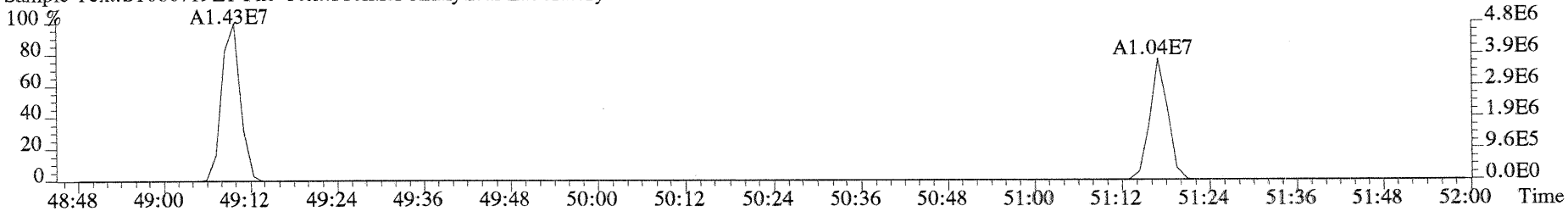
File:07AUG19Z #1-315 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



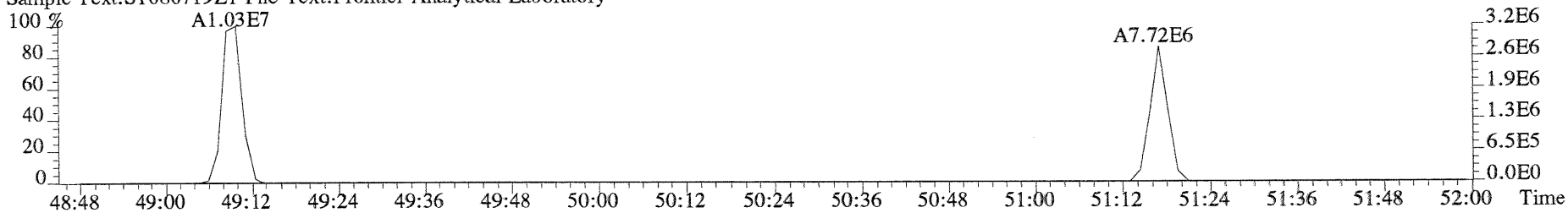
File:07AUG19Z #1-315 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



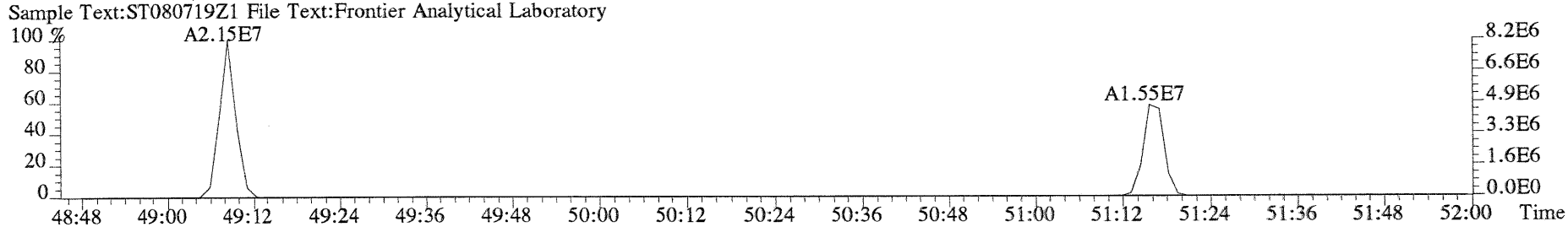
File:07AUG19Z #1-315 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



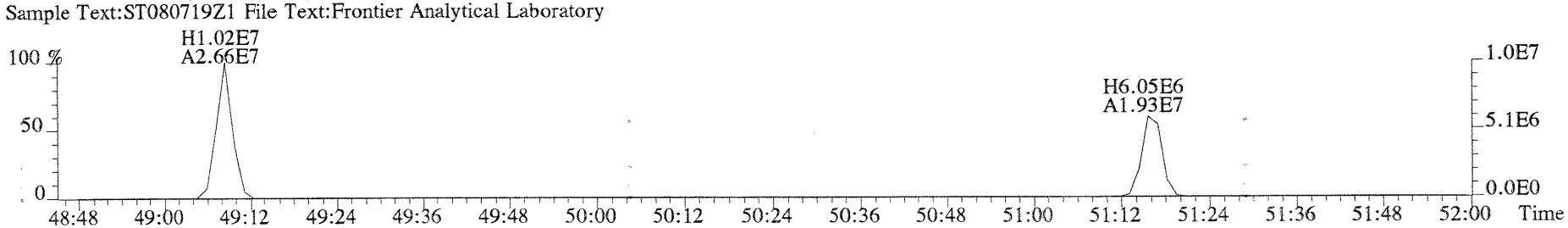
File:07AUG19Z #1-315 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



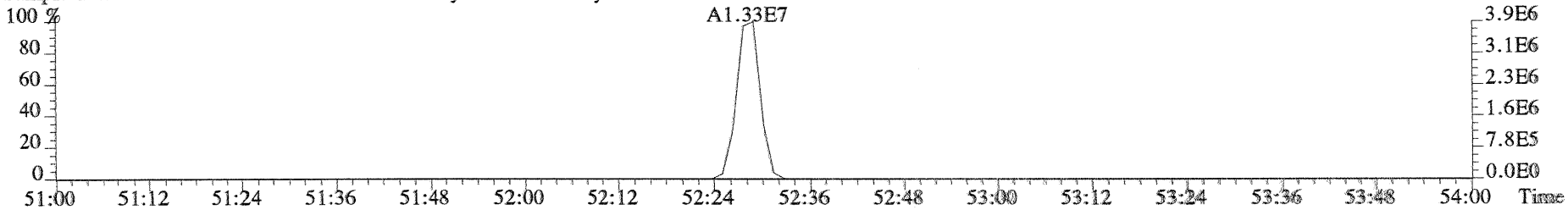
File:07AUG19Z #1-315 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



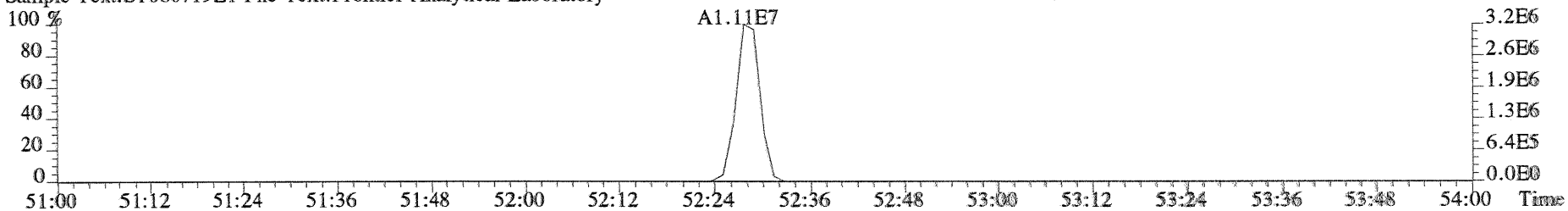
File:07AUG19Z #1-315 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



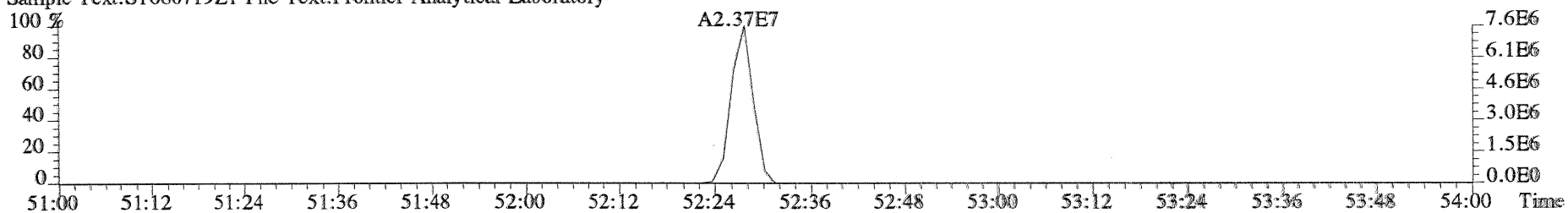
File:07AUG19Z #1-315 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



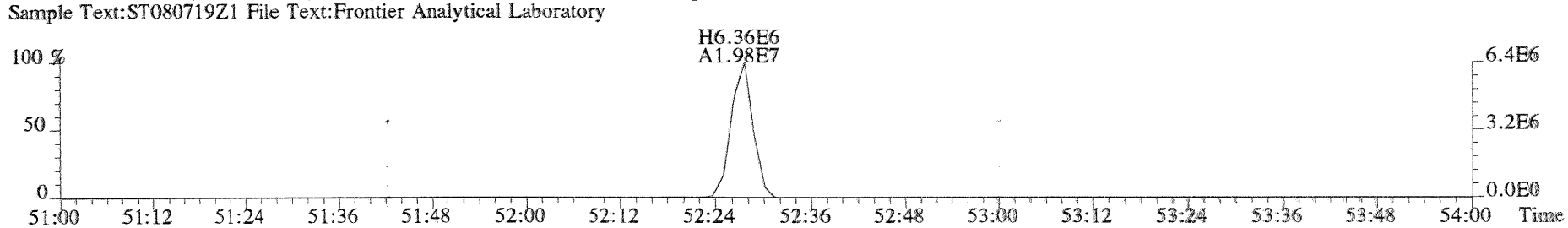
File:07AUG19Z #1-315 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory



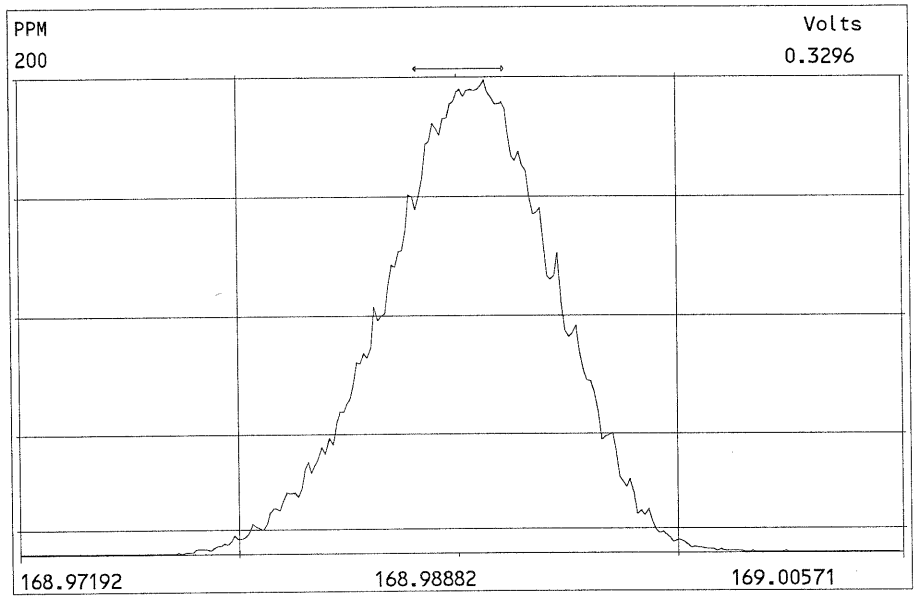
File:07AUG19Z #1-315 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory

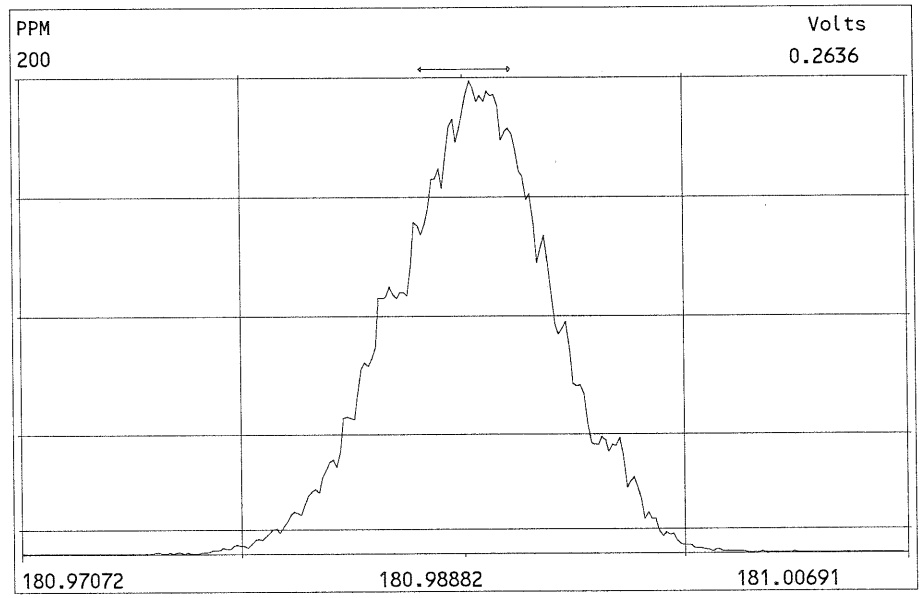


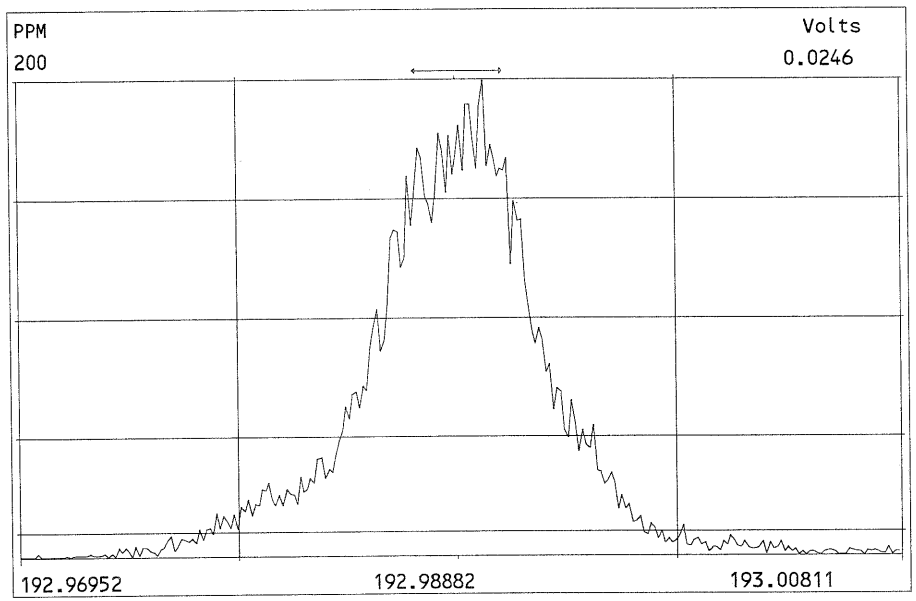
File:07AUG19Z #1-315 Acq: 7-AUG-2019 06:23:47 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z1 File Text:Frontier Analytical Laboratory

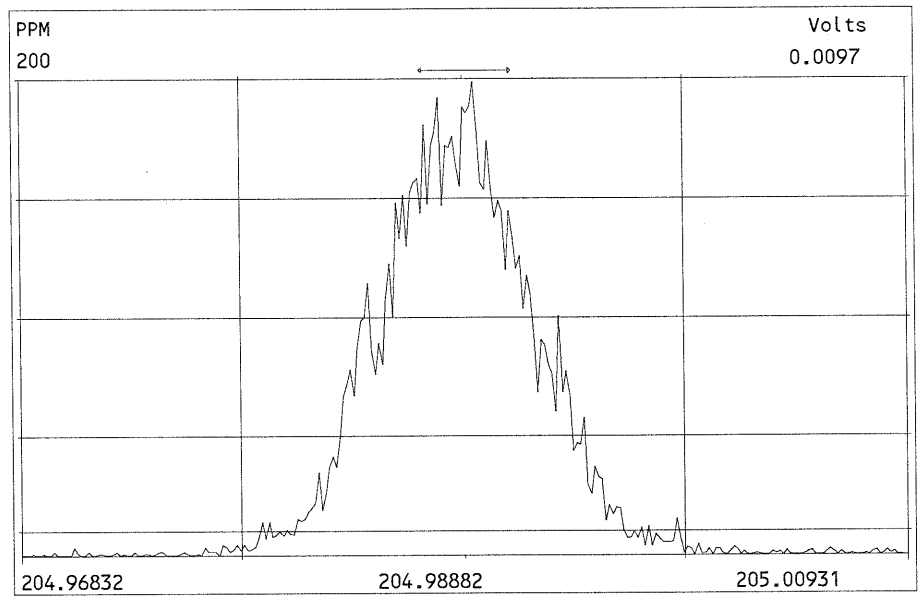


Peak Locate Examination: 7-AUG-2019:21:29 File:07AUG19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

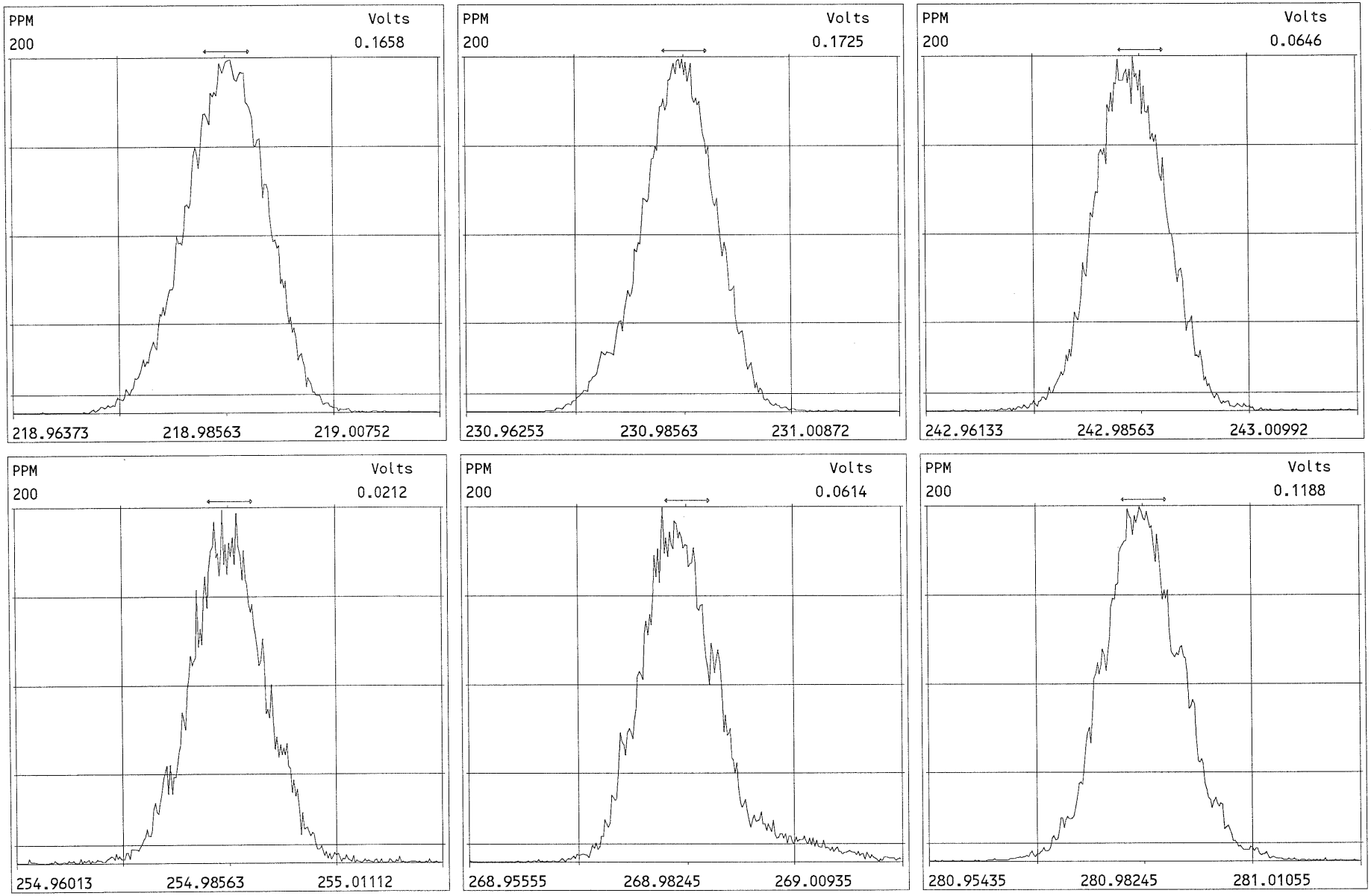




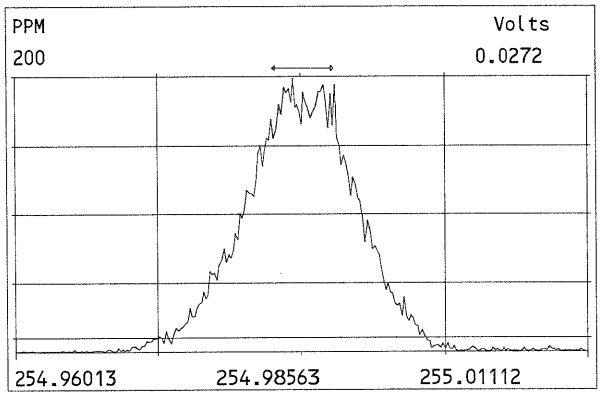


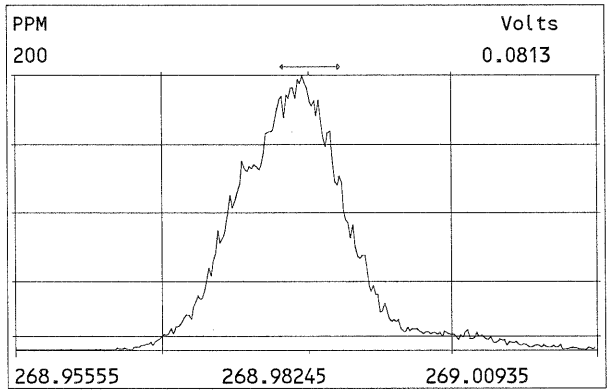


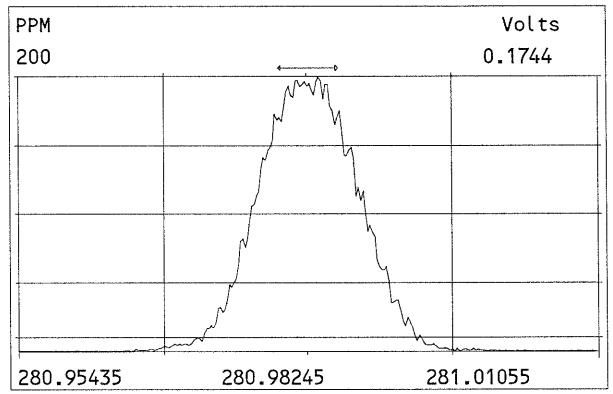
Peak Locate Examination: 7-AUG-2019:21:31 File:07AUG19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

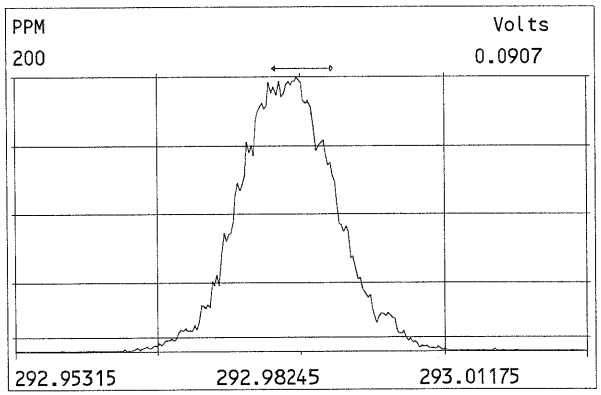


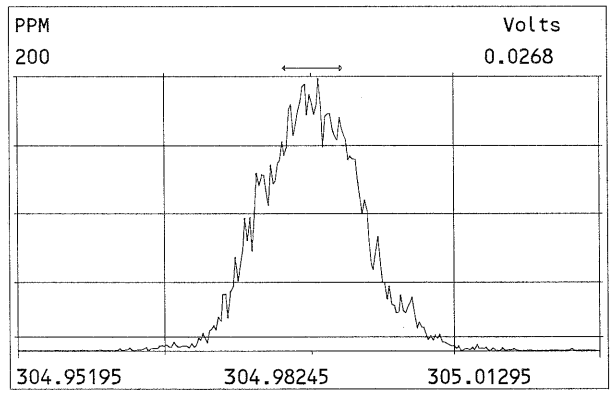
Peak Locate Examination: 7-AUG-2019:21:33 File:07AUG19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

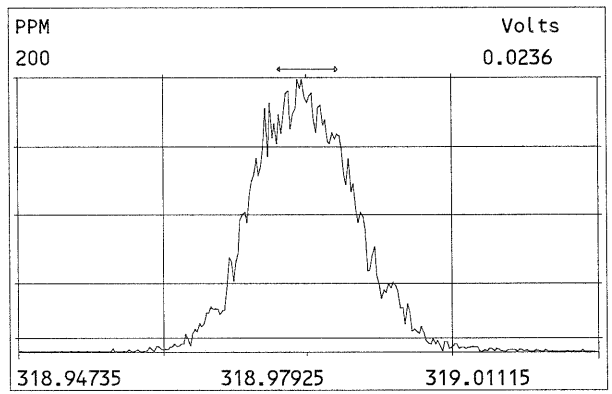


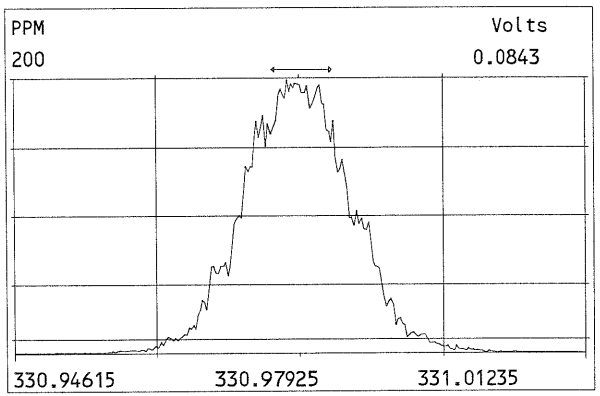


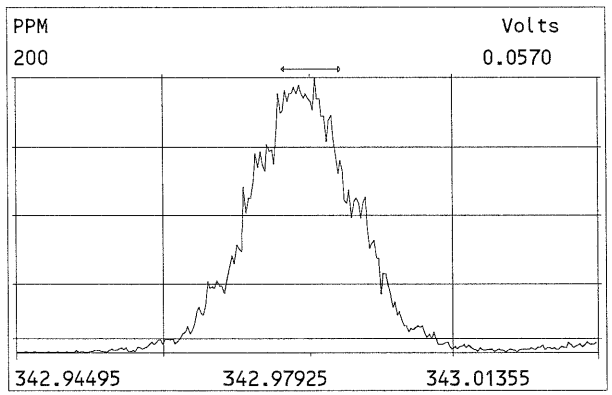




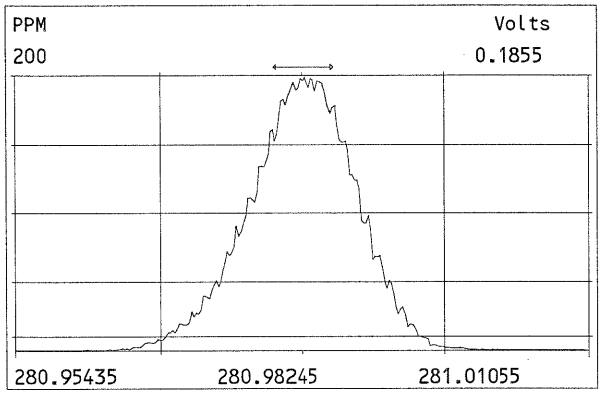


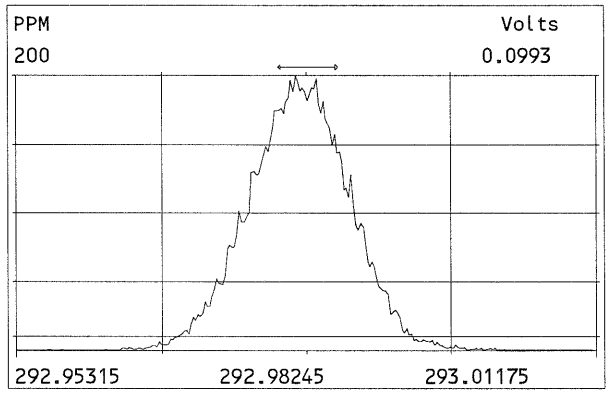


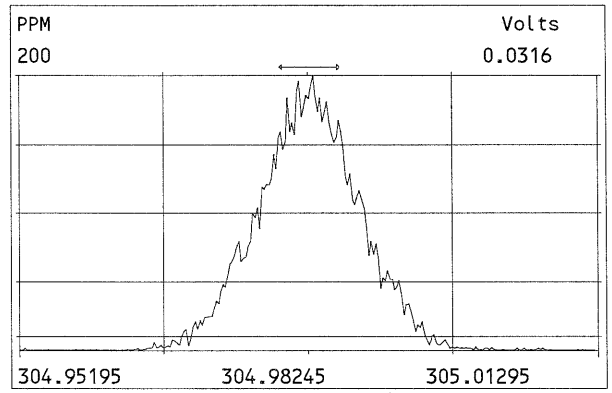


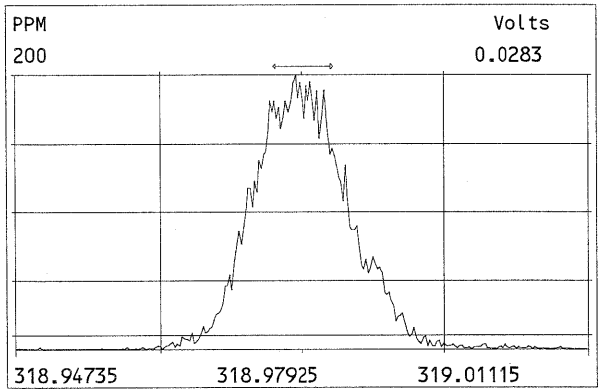


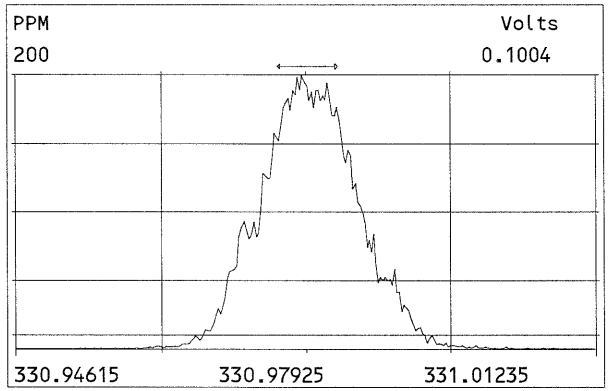
Peak Locate Examination: 7-AUG-2019:21:35 File:07AUG19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

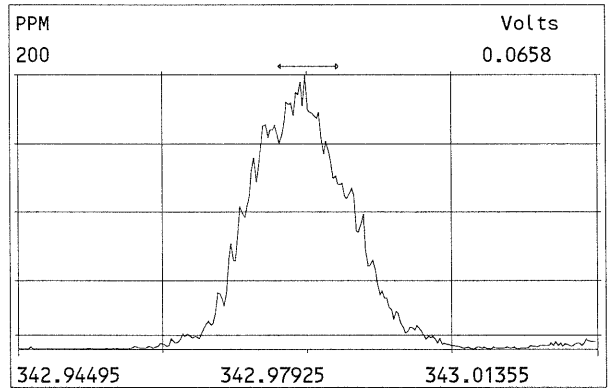


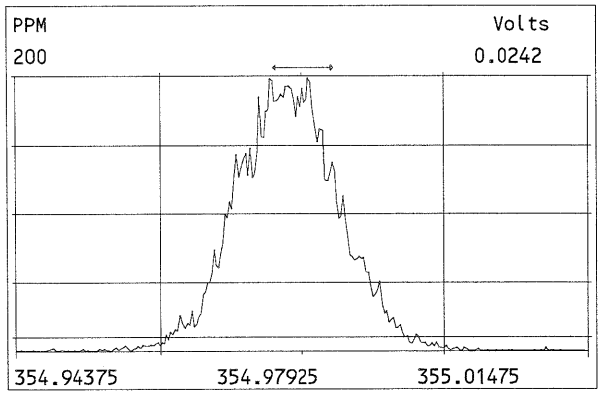


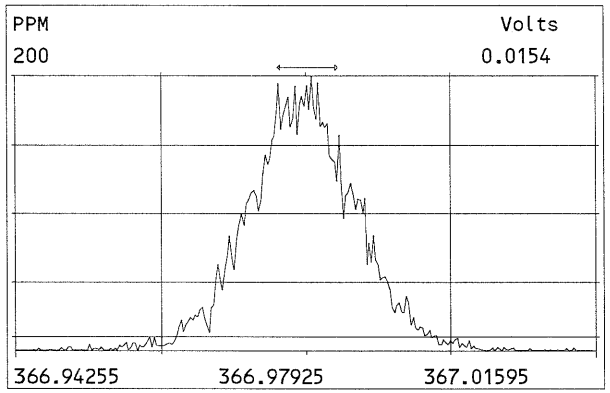


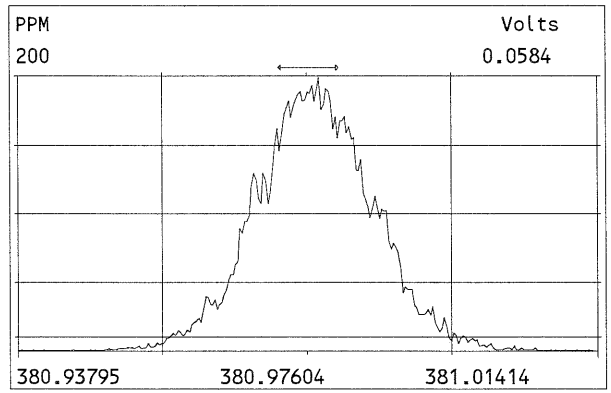




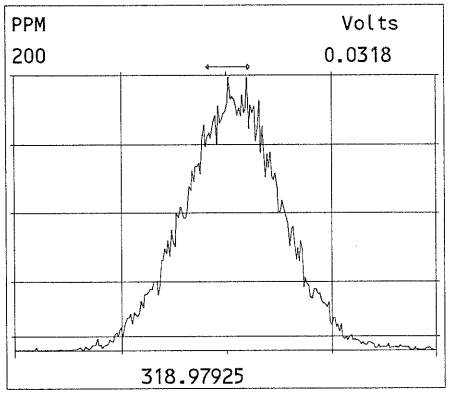


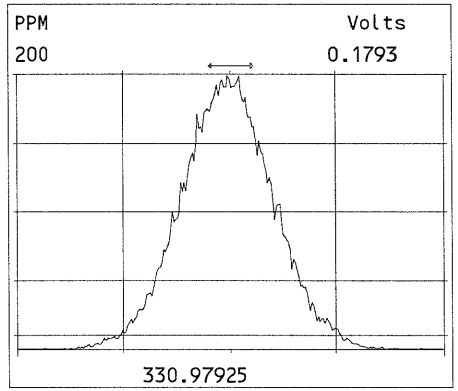


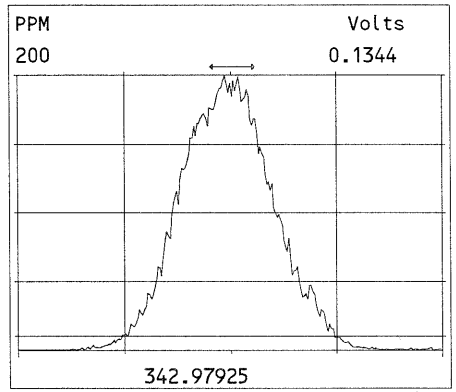


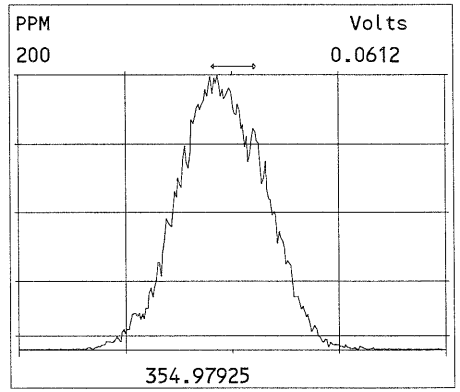


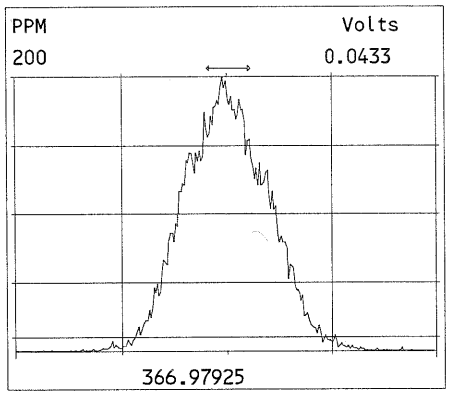
Peak Locate Examination: 7-AUG-2019:21:38 File:07AUG19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

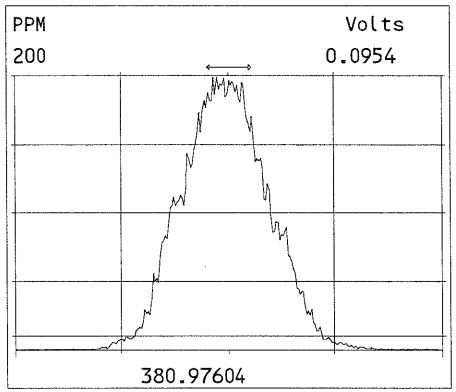


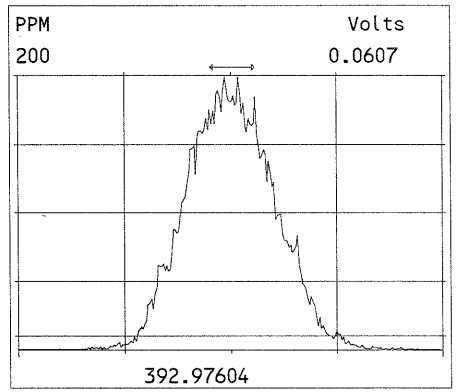


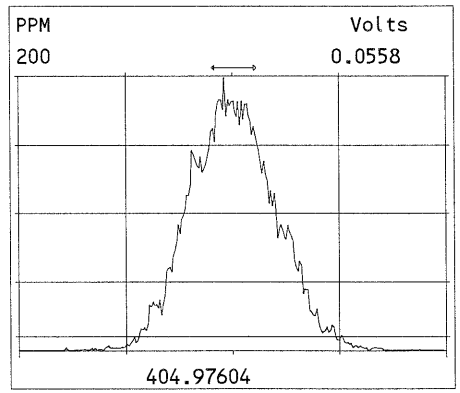


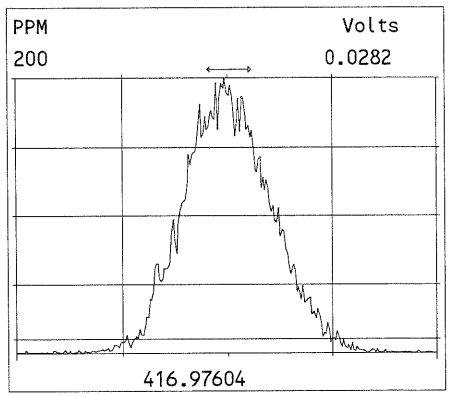


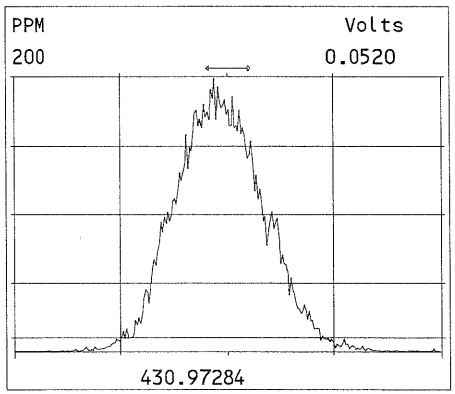


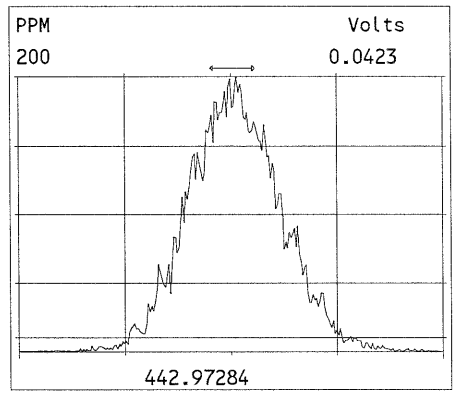




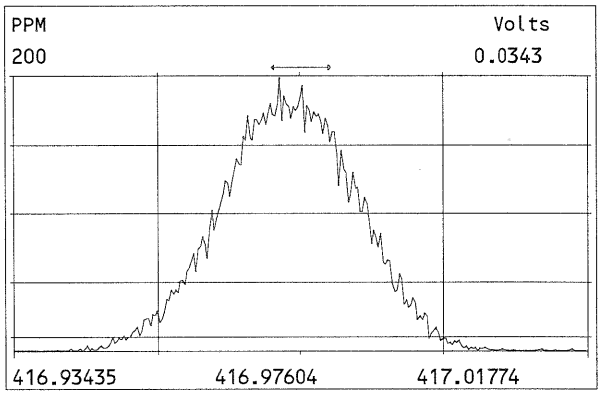


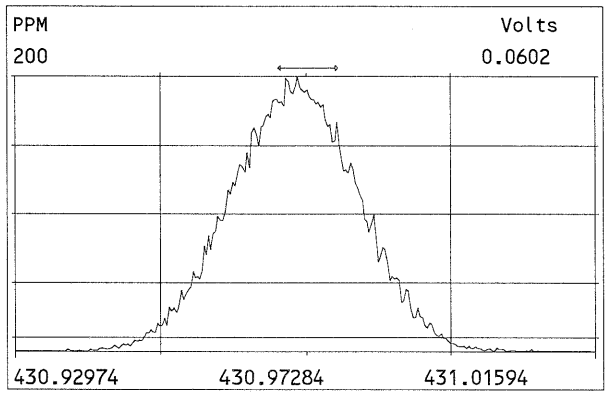


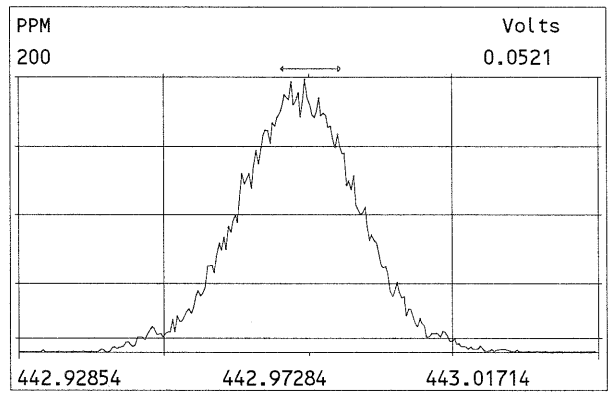


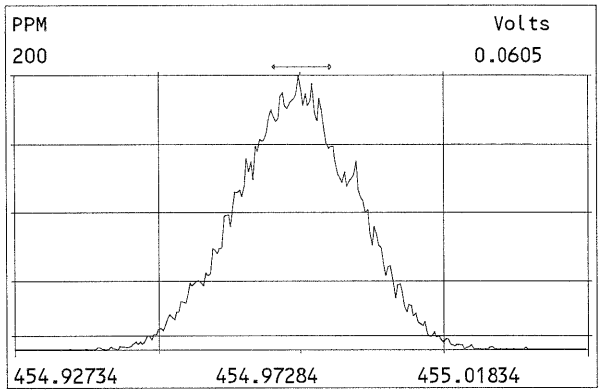


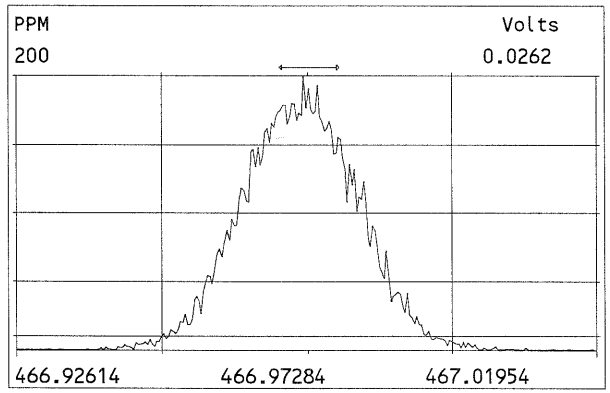
Peak Locate Examination: 7-AUG-2019:21:40 File:07AUG19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

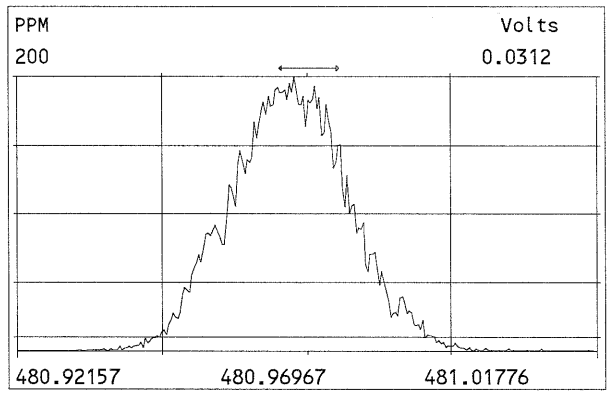


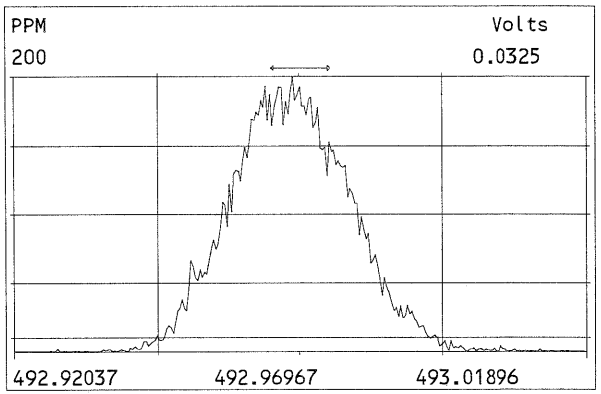


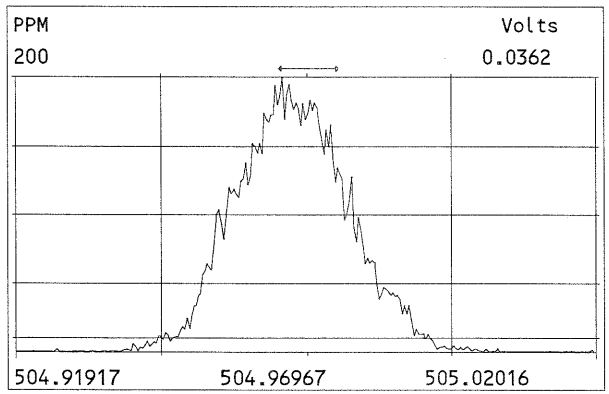


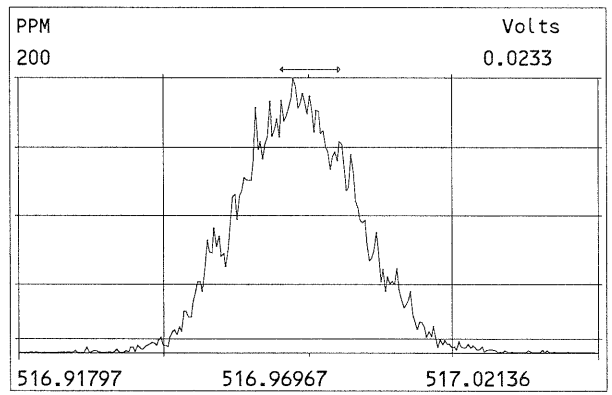












Cal: DAILY209FAL4-8-7-19

Run: 07AUG19Z Analyte: Results: Version: V3.6 21-MAY-2002 15:28:22

Data Filename:07AUG19Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.1086	-	1.11	
13C-PCB-1	0.9143	-	0.91	
PCB-2	1.1326	-	1.13	
PCB-3	1.1539	-	1.15	
13C-PCB-3	0.8858	-	0.89	
PCB-4	1.1615	-	1.16	
PCB-10	1.2768	-	1.28	
13C-PCB-4	0.6453	-	0.65	
PCB-9	1.3992	*	1.40	
PCB-7	1.3632	-	1.36	
PCB-6	1.3826	-	1.38	
PCB-8	1.3369	-	1.34	
PCB-5	1.3369	-	1.34	
PCB-14	1.3210	-	1.32	
PCB-11	1.2049	-	1.20	
PCB-13	1.1779	-	1.18	
PCB-12	1.2321	-	1.23	
PCB-15	1.0784	-	1.08	
13C-PCB-15	0.9320	-	0.93	
PCB-19	1.1873	-	1.19	
PCB-30	1.7704	-	1.77	
PCB-18	1.1791	-	1.18	
PCB-17	1.2948	-	1.29	
PCB-27	1.7351	*	1.74	
PCB-24	1.6423	*	1.64	
PCB-16	1.3599	-	1.36	
PCB-32	1.5335	*	1.53	
13C-PCB-19	0.5063	-	0.51	
13C-PCB-9	-	-	-	
PCB-34	1.1353	-	1.14	
PCB-23	1.3530	-	1.35	
PCB-29	1.3034	-	1.30	
PCB-26	1.2441	-	1.24	
PCB-25	1.2248	-	1.22	
PCB-31	1.2767	-	1.28	
PCB-28	1.4172	-	1.42	
PCB-20	1.1791	-	1.18	Co-elute PCB 21/33
PCB-21	1.1791	-	1.18	Co-elute PCB 20/33
PCB-33	1.1791	-	1.18	Co-elute PCB 20/21
PCB-22	1.2342	-	1.23	
PCB-36	1.1784	-	1.18	
PCB-39	1.1669	-	1.17	
PCB-38	1.1697	-	1.17	
PCB-35	1.0334	-	1.03	
PCB-37	1.0856	-	1.09	
13C-PCB-37	1.3182	-	1.32	

PCB-54	1.1895	-	1.19	
PCB-50	0.9346	-	0.93	
PCB-53	0.9194	-	0.92	
PCB-51	0.9567	-	0.96	
PCB-45	0.7908	-	0.79	
PCB-46	0.7455	-	0.75	
PCB-52	0.9316	-	0.93	Co-elute PCB 69
PCB-69	0.9316	-	0.93	Co-elute PCB 52
PCB-73	1.1453	-	1.15	
PCB-43	0.8077	-	0.81	Co-elute PCB 49
PCB-49	0.8077	-	0.81	Co-elute PCB 43
PCB-47	0.8605	-	0.86	
PCB-48	1.0376	-	1.04	Co-elute PCB 75
PCB-75	1.0376	-	1.04	Co-elute PCB 48
PCB-65	1.0487	-	1.05	
PCB-62	1.0880	-	1.09	
PCB-44	0.6875	-	0.69	
PCB-42	0.8976	-	0.90	Co-elute PCB 59
PCB-59	0.8976	-	0.90	Co-elute PCB 42
PCB-72	0.9592	-	0.96	Co-elute PCB 41/71/64
PCB-41	0.9592	-	0.96	Co-elute PCB 72/71/64
PCB-71	0.9592	-	0.96	Co-elute PCB 72/41/64
PCB-64	0.9592	-	0.96	Co-elute PCB 72/41/71
PCB-68	1.1100	-	1.11	
PCB-40	0.5994	-	0.60	
PCB-57	1.0002	-	1.00	
PCB-67	0.9422	-	0.94	
PCB-58	1.0552	-	1.06	
PCB-63	0.9965	-	1.00	
PCB-74	0.9743	-	0.97	
PCB-61	0.9301	-	0.93	Co-elute PCB 70
PCB-70	0.9301	-	0.93	Co-elute PCB 61
PCB-76	1.0230	-	1.02	Co-elute PCB 66
PCB-66	1.0230	-	1.02	Co-elute PCB 76
PCB-80	1.1994	-	1.20	
PCB-55	1.0275	-	1.03	
13C-PCB-54	1.2550	-	1.26	
PCB-104	1.0763	-	1.08	
PCB-96	0.9842	-	0.98	
PCB-103	0.7732	-	0.77	
PCB-100	0.7858	-	0.79	
PCB-94	0.6388	-	0.64	
PCB-98	0.6488	-	0.65	Co-elute PCB 102
PCB-102	0.6488	-	0.65	Co-elute PCB 98
PCB-95	0.6881	*	0.69	
PCB-93	0.6879	-	0.69	
PCB-88	0.7227	-	0.72	Co-elute PCB 91
PCB-91	0.7227	-	0.72	Co-elute PCB 88
PCB-121	0.8738	-	0.87	
13C-PCB-104	1.0050	-	1.00	
13C-PCB-28	1.6652	-	1.67	
13C-PCB-52	-	-	-	

PCB-56	1.0199	-	1.02	Co-elute PCB 60
PCB-60	1.0199	-	1.02	Co-elute PCB 56
PCB-79	1.1599	-	1.16	
PCB-78	1.1124	-	1.11	
PCB-81	1.1675	-	1.17	
13C-PCB-81	1.4051	-	1.41	
PCB-77	0.9972	-	1.00	
13C-PCB-77	1.4544	-	1.45	
PCB-155	1.0122	-	1.01	
PCB-150	0.9765	-	0.98	
PCB-152	0.8693	-	0.87	
PCB-145	0.9625	-	0.96	
PCB-136	0.9362	-	0.94	
PCB-148	0.6342	-	0.63	
PCB-154	0.7852	-	0.79	
13C-PCB-155	1.2654	-	1.27	
13C-PCB-111	1.2359	-	1.24	
13C-PCB-101	-	-	-	
PCB-84	0.8253	-	0.83	Co-elute PCB 92
PCB-92	0.8253	-	0.83	Co-elute PCB 84
PCB-89	0.8120	-	0.81	
PCB-90	0.9073	-	0.91	Co-elute PCB 101
PCB-101	0.9073	-	0.91	Co-elute PCB 90
PCB-113	1.0448	-	1.04	
PCB-99	1.0034	-	1.00	
PCB-119	1.1511	-	1.15	
PCB-83	0.9082	-	0.91	Co-elute PCB 112
PCB-112	0.9082	-	0.91	Co-elute PCB 83
PCB-109	1.0864	-	1.09	
PCB-97	0.7458	-	0.75	
PCB-86	0.8299	-	0.83	
PCB-125	0.9896	-	0.99	Co-elute PCB 87/117
PCB-87	0.9896	-	0.99	Co-elute PCB 125/117
PCB-117	0.9896	-	0.99	Co-elute PCB 125/87
PCB-111	1.1407	-	1.14	Co-elute PCB 115
PCB-115	1.1407	-	1.14	Co-elute PCB 111
PCB-85	0.9870	-	0.99	Co-elute PCB 116
PCB-116	0.9870	-	0.99	Co-elute PCB 85
PCB-120	1.1827	-	1.18	
PCB-110	1.1263	-	1.13	
PCB-82	0.6584	-	0.66	
PCB-124	1.1278	-	1.13	
PCB-108	1.0788	-	1.08	Co-elute PCB 107
PCB-107	1.0788	-	1.08	Co-elute PCB 108
PCB-123	1.0164	-	1.02	
13C-PCB-123	1.2104	-	1.21	
PCB-118	1.0362	-	1.04	Co-elute PCB 106
PCB-106	1.0362	-	1.04	Co-elute PCB 118
13C-PCB-118	1.3553	-	1.36	
PCB-114	1.1308	-	1.13	
13C-PCB-114	1.2616	-	1.26	
PCB-122	1.0395	-	1.04	
PCB-105	1.1235	-	1.12	
13C-PCB-105	1.2618	-	1.26	
PCB-127	1.0254	-	1.03	
PCB-126	1.0753	-	1.08	
13C-PCB-126	1.1720	-	1.17	

PCB-151	0.8750	-	0.88	
PCB-135	0.8299	-	0.83	
PCB-144	1.0130	-	1.01	
PCB-147	0.9333	-	0.93	
PCB-139	0.9883	-	0.99	Co-elute PCB 149
PCB-149	0.9883	-	0.99	Co-elute PCB 139
PCB-140	0.9256	-	0.93	
PCB-143	0.7676	-	0.77	Co-elute PCB 134
PCB-134	0.7676	-	0.77	Co-elute PCB 143
PCB-131	0.7762	-	0.78	Co-elute PCB 133
PCB-133	0.7762	-	0.78	Co-elute PCB 131
PCB-142	0.7686	-	0.77	
PCB-165	1.0367	-	1.04	Co-elute PCB 146
PCB-146	1.0367	-	1.04	Co-elute PCB 165
PCB-161	0.9502	-	0.95	Co-elute PCB 132
PCB-132	0.9502	-	0.95	Co-elute PCB 161
PCB-153	1.0822	-	1.08	
PCB-168	1.1670	-	1.17	
PCB-141	0.8507	-	0.85	
PCB-137	0.7721	-	0.77	
PCB-130	0.8166	-	0.82	
PCB-138	1.0429	-	1.04	Co-elute PCB 163/164
PCB-163	1.0429	-	1.04	Co-elute PCB 138/164
PCB-164	1.0429	-	1.04	Co-elute PCB 138/163
PCB-158	1.1578	-	1.16	Co-elute PCB 160
PCB-160	1.1578	-	1.16	Co-elute PCB 158
PCB-129	0.7263	-	0.73	
PCB-166	1.0946	-	1.09	
PCB-159	1.2049	-	1.20	
PCB-128	0.9426	-	0.94	Co-elute PCB 162
PCB-162	0.9426	-	0.94	Co-elute PCB 128
PCB-167	1.0692	-	1.07	
13C-PCB-167	1.1602	-	1.16	
PCB-156	1.1382	-	1.14	
13C-PCB-156	1.1604	-	1.16	
PCB-157	1.0847	-	1.08	
13C-PCB-157	1.1693	-	1.17	
PCB-169	1.0533	-	1.05	
13C-PCB-169	1.1631	-	1.16	
PCB-188	1.0881	-	1.09	
13C-PCB-188	1.1493	-	1.15	

PCB-184	1.2056	-	1.21	
PCB-179	1.1452	-	1.15	
PCB-176	1.1074	-	1.11	
PCB-186	1.1246	-	1.12	
PCB-178	0.7700	-	0.77	
PCB-175	0.7992	-	0.80	
PCB-187	0.8864	-	0.89	Co-elute PCB 182
PCB-182	0.8864	-	0.89	Co-elute PCB 187
PCB-183	0.8633	-	0.86	
PCB-185	0.7883	-	0.79	
PCB-174	0.8129	-	0.81	
PCB-181	0.7764	-	0.78	
PCB-177	0.7284	-	0.73	
PCB-171	0.8021	-	0.80	
PCB-173	0.7007	-	0.70	
PCB-172	0.7511	-	0.75	
PCB-192	0.9862	-	0.99	
PCB-180	0.7707	-	0.77	
PCB-193	1.0430	-	1.04	
PCB-191	1.0363	-	1.04	
PCB-170	0.7757	-	0.78	
PCB-190	1.0547	-	1.05	
PCB-189	1.1208	-	1.12	
13C-PCB-189	1.0139	-	1.01	
PCB-202	0.9830	-	0.98	
PCB-201	1.0685	-	1.07	
PCB-204	1.0392	-	1.04	
PCB-197	1.1031	-	1.10	
PCB-200	1.0565	-	1.06	
PCB-198	0.8168	-	0.82	
PCB-199	0.7701	-	0.77	
PCB-203	0.8494	-	0.85	Co-elute PCB 196
PCB-196	0.8494	-	0.85	Co-elute PCB 203
13C-PCB-202	0.9578	-	0.96	
13C-PCB-178	0.7407	-	0.74	
13C-PCB-138	-	-	-	
PCB-195	0.7680	-	0.77	
PCB-194	0.8183	-	0.82	
PCB-205	1.0468	-	1.05	
13C-PCB-205	1.3049	-	1.30	
PCB-208	0.9978	-	1.00	
13C-PCB-208	1.3417	-	1.34	
PCB-207	1.1687	-	1.17	
PCB-206	1.0507	-	1.05	
13C-PCB-206	0.9481	-	0.95	
PCB-209	1.1094	-	1.11	
13C-PCB-209	1.2369	-	1.24	
13C-PCB-194	-	-	-	

Analyst: _____ Date: 8/7/19

Run #1 Filename 07AUG19Z S: 2 Acquired: 7-AUG-19 07:22:07 Cal: DAILY209FAL4-8-7-19
Client ID: SS080719Z1 Analyte: FAL ID: Daily 209 190408A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	4.94e+07	3.15 y	14:32	-	1.11	
2	IS/RT	13C-PCB-1	100.00	8.91e+07	3.21 y	14:31	-	0.914	
3	Unk	PCB-2	50.00	4.97e+07	3.19 y	16:46	-	1.13	
4	Unk	PCB-3	50.00	4.98e+07	3.16 y	16:59	-	1.15	
5	IS/RT	13C-PCB-3	100.00	8.63e+07	3.22 y	16:58	-	0.886	
6	Unk	PCB-4	50.00	3.65e+07	1.52 y	18:13	-	1.16	
7	Unk	PCB-10	50.00	4.90e+07	1.54 y	18:17	-	1.28	
8	IS/RT	13C-PCB-4	100.00	6.29e+07	1.57 y	18:11	-	0.645	
9	Unk	PCB-9	50.00	5.38e+07	1.49 y	19:54	-	1.40	
10	Unk	PCB-7	50.00	5.24e+07	1.59 y	19:56	-	1.36	
11	Unk	PCB-6	50.00	5.31e+07	1.51 y	20:32	-	1.38	
12	Unk	PCB-8	50.00	5.14e+07	1.57 y	20:55	-	1.34	
13	Unk	PCB-5	50.00	5.14e+07	1.57 y	20:55	-	1.34	
14	Unk	PCB-14	50.00	5.08e+07	1.53 y	21:57	-	1.32	
15	Unk	PCB-11	50.00	4.63e+07	1.58 y	23:04	-	1.20	
16	Unk	PCB-13	50.00	4.53e+07	1.46 y	23:25	-	1.18	
17	Unk	PCB-12	50.00	4.73e+07	1.58 y	23:28	-	1.23	
18	Unk	PCB-15	50.00	4.90e+07	1.53 y	23:45	-	1.08	
19	IS/RT	13C-PCB-15	100.00	9.08e+07	1.58 y	23:43	-	0.932	
20	Unk	PCB-19	50.00	2.93e+07	1.06 y	22:06	-	1.19	
21	Unk	PCB-30	50.00	4.37e+07	1.06 y	22:56	-	1.77	
22	Unk	PCB-18	50.00	2.91e+07	1.07 y	23:39	-	1.18	
23	Unk	PCB-17	50.00	3.19e+07	1.07 y	23:48	-	1.29	
24	Unk	PCB-27	50.00	4.28e+07	1.12 y	24:21	-	1.74	
25	Unk	PCB-24	50.00	4.05e+07	1.01 y	24:22	-	1.64	
26	Unk	PCB-16	50.00	3.35e+07	1.08 y	24:49	-	1.36	
27	Unk	PCB-32	50.00	3.78e+07	1.04 y	24:50	-	1.53	
28	IS/RT	13C-PCB-19	100.00	4.93e+07	1.09 y	22:04	-	0.506	
29	RS	13C-PCB-9	100.00	9.74e+07	1.58 y	19:52	9.74e+05	-	
30	Unk	PCB-34	50.00	3.69e+07	1.00 y	25:35	-	1.14	
31	Unk	PCB-23	50.00	4.39e+07	1.01 y	25:41	-	1.35	
32	Unk	PCB-29	50.00	4.23e+07	1.03 y	25:55	-	1.30	
33	Unk	PCB-26	50.00	4.04e+07	1.02 y	26:07	-	1.24	
34	Unk	PCB-25	50.00	3.98e+07	1.03 y	26:16	-	1.22	
35	Unk	PCB-31	50.00	4.15e+07	1.02 y	26:36	-	1.28	
36	Unk	PCB-28	50.00	4.60e+07	1.03 y	26:42	-	1.42	
37	Unk	PCB-20	150.00	1.15e+08	1.01 y	27:16	-	1.18	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	1.15e+08	1.01 y	27:16	-	1.18	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	1.15e+08	1.01 y	27:16	-	1.18	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	4.01e+07	1.01 y	27:43	-	1.23	
41	Unk	PCB-36	50.00	3.83e+07	1.03 y	28:17	-	1.18	
42	Unk	PCB-39	50.00	3.79e+07	1.02 y	28:45	-	1.17	
43	Unk	PCB-38	50.00	3.80e+07	1.02 y	29:28	-	1.17	
44	Unk	PCB-35	50.00	3.36e+07	1.01 y	29:58	-	1.03	
45	Unk	PCB-37	50.00	3.53e+07	1.03 y	30:23	-	1.09	
46	IS	13C-PCB-37	100.00	6.49e+07	1.07 y	30:22	-	1.32	

47	Unk	PCB-54	100.00	7.35e+07	0.82 y	25:38		-	1.19	
48	Unk	PCB-50	100.00	5.78e+07	0.78 y	26:43		-	0.935	
49	Unk	PCB-53	100.00	5.68e+07	0.79 y	27:20		-	0.919	
50	Unk	PCB-51	100.00	5.92e+07	0.79 y	27:40		-	0.957	
51	Unk	PCB-45	100.00	4.89e+07	0.79 y	28:04		-	0.791	
52	Unk	PCB-46	100.00	4.61e+07	0.80 y	28:32		-	0.745	
53	Unk	PCB-52	200.00	1.15e+08	0.78 y	28:59		-	0.932	Co-elute PCB 69
54	Unk	PCB-69	200.00	1.15e+08	0.78 y	28:59		-	0.932	Co-elute PCB 52
55	Unk	PCB-73	100.00	7.08e+07	0.80 y	29:05		-	1.15	
56	Unk	PCB-43	200.00	9.99e+07	0.79 y	29:15		-	0.808	Co-elute PCB 49
57	Unk	PCB-49	200.00	9.99e+07	0.79 y	29:15		-	0.808	Co-elute PCB 43
58	Unk	PCB-47	100.00	5.32e+07	0.88 y	29:26		-	0.860	
59	Unk	PCB-48	200.00	1.28e+08	0.74 y	29:33		-	1.04	Co-elute PCB 75
60	Unk	PCB-75	200.00	1.28e+08	0.74 y	29:33		-	1.04	Co-elute PCB 48
61	Unk	PCB-65	100.00	6.48e+07	0.78 y	29:49		-	1.05	
62	Unk	PCB-62	100.00	6.73e+07	0.80 y	29:54		-	1.09	
63	Unk	PCB-44	100.00	4.25e+07	0.80 y	30:12		-	0.688	
64	Unk	PCB-42	200.00	1.11e+08	0.79 y	30:25		-	0.898	Co-elute PCB 59
65	Unk	PCB-59	200.00	1.11e+08	0.79 y	30:25		-	0.898	Co-elute PCB 42
66	Unk	PCB-72	400.00	2.37e+08	0.78 y	30:57		-	0.959	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	2.37e+08	0.78 y	30:57		-	0.959	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	2.37e+08	0.78 y	30:57		-	0.959	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	2.37e+08	0.78 y	30:57		-	0.959	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	6.86e+07	0.79 y	31:13		-	1.11	
71	Unk	PCB-40	100.00	3.71e+07	0.79 y	31:25		-	0.599	
72	Unk	PCB-57	100.00	6.18e+07	0.78 y	31:45		-	1.00	
73	Unk	PCB-67	100.00	5.83e+07	0.78 y	32:03		-	0.942	
74	Unk	PCB-58	100.00	6.52e+07	0.79 y	32:09		-	1.06	
75	Unk	PCB-63	100.00	6.16e+07	0.79 y	32:18		-	0.996	
76	Unk	PCB-74	100.00	6.02e+07	0.78 y	32:35		-	0.974	
77	Unk	PCB-61	200.00	1.15e+08	0.79 y	32:46		-	0.930	Co-elute PCB 70
78	Unk	PCB-70	200.00	1.15e+08	0.79 y	32:46		-	0.930	Co-elute PCB 61
79	Unk	PCB-76	200.00	1.27e+08	0.79 y	32:59		-	1.02	Co-elute PCB 66
80	Unk	PCB-66	200.00	1.27e+08	0.79 y	32:59		-	1.02	Co-elute PCB 76
81	Unk	PCB-80	100.00	7.42e+07	0.78 y	33:10		-	1.20	
82	Unk	PCB-55	100.00	6.35e+07	0.78 y	33:29		-	1.03	
83	IS/RT	13C-PCB-54	100.00	6.18e+07	0.82 y	25:36		-	1.26	
84	Unk	PCB-104	100.00	5.33e+07	1.62 y	30:03		-	1.08	
85	Unk	PCB-96	100.00	4.87e+07	1.58 y	31:15		-	0.984	
86	Unk	PCB-103	100.00	3.83e+07	1.59 y	31:45		-	0.773	
87	Unk	PCB-100	100.00	3.89e+07	1.58 y	32:06		-	0.786	
88	Unk	PCB-94	100.00	3.16e+07	1.61 y	32:32		-	0.639	
89	Unk	PCB-98	200.00	6.42e+07	1.57 y	32:59		-	0.649	Co-elute PCB 102
90	Unk	PCB-102	200.00	6.42e+07	1.57 y	32:59		-	0.649	Co-elute PCB 98
91	Unk	PCB-95	100.00	3.41e+07	1.58 y	33:03		-	0.688	
92	Unk	PCB-93	100.00	3.41e+07	1.60 y	33:08		-	0.688	
93	Unk	PCB-88	200.00	7.16e+07	1.58 y	33:25		-	0.723	Co-elute PCB 91
94	Unk	PCB-91	200.00	7.16e+07	1.58 y	33:25		-	0.723	Co-elute PCB 88
95	Unk	PCB-121	100.00	4.33e+07	1.61 y	33:29		-	0.874	
96	IS	13C-PCB-104	100.00	4.95e+07	1.55 y	30:02		-	1.00	
97	C/Up	13C-PCB-28	100.00	8.20e+07	1.06 y	26:41		-	1.67	
98	RS	13C-PCB-52	100.00	4.93e+07	0.82 y	28:56	4.93e+05		-	
99	Unk	PCB-56	200.00	1.09e+08	0.77 y	33:58		-	1.02	Co-elute PCB 60
100	Unk	PCB-60	200.00	1.09e+08	0.77 y	33:58		-	1.02	Co-elute PCB 56

101	Unk	PCB-79	100.00	6.21e+07	0.76 y	34:59	-	1.16	
102	Unk	PCB-78	100.00	5.96e+07	0.76 y	35:38	-	1.11	
103	Unk	PCB-81	100.00	6.15e+07	0.78 y	36:08	-	1.17	
104	IS	13C-PCB-81	100.00	5.26e+07	0.80 y	36:07	-	1.41	
105	Unk	PCB-77	100.00	5.43e+07	0.77 y	36:42	-	0.997	
106	IS/RT	13C-PCB-77	100.00	5.45e+07	0.80 y	36:41	-	1.45	
107	Unk	PCB-155	100.00	4.80e+07	1.29 y	34:12	-	1.01	
108	Unk	PCB-150	100.00	4.63e+07	1.27 y	35:24	-	0.976	
109	Unk	PCB-152	100.00	4.12e+07	1.29 y	35:52	-	0.869	
110	Unk	PCB-145	100.00	4.56e+07	1.28 y	36:17	-	0.963	
111	Unk	PCB-136	100.00	4.44e+07	1.28 y	36:35	-	0.936	
112	Unk	PCB-148	100.00	3.01e+07	1.30 y	36:41	-	0.634	
113	Unk	PCB-154	100.00	3.72e+07	1.27 y	37:09	-	0.785	
114	IS	13C-PCB-155	100.00	4.74e+07	1.29 y	34:11	-	1.27	
115	C/Up	13C-PCB-111	100.00	4.63e+07	1.60 y	36:16	-	1.24	
116	RS	13C-PCB-101	100.00	3.75e+07	1.65 y	34:37	3.75e+05	-	
117	Unk	PCB-84	200.00	7.62e+07	1.60 y	34:17	-	0.825	Co-elute PCB 92
118	Unk	PCB-92	200.00	7.62e+07	1.60 y	34:17	-	0.825	Co-elute PCB 84
119	Unk	PCB-89	100.00	3.75e+07	1.56 y	34:28	-	0.812	
120	Unk	PCB-90	200.00	8.38e+07	1.58 y	34:38	-	0.907	Co-elute PCB 101
121	Unk	PCB-101	200.00	8.38e+07	1.58 y	34:38	-	0.907	Co-elute PCB 90
122	Unk	PCB-113	100.00	4.82e+07	1.58 y	34:52	-	1.04	
123	Unk	PCB-99	100.00	4.63e+07	1.59 y	34:57	-	1.00	
124	Unk	PCB-119	100.00	5.31e+07	1.56 y	35:24	-	1.15	
125	Unk	PCB-83	200.00	8.39e+07	1.58 y	35:33	-	0.908	Co-elute PCB 112
126	Unk	PCB-112	200.00	8.39e+07	1.58 y	35:33	-	0.908	Co-elute PCB 83
127	Unk	PCB-109	100.00	5.02e+07	1.59 y	35:42	-	1.09	
128	Unk	PCB-97	100.00	3.44e+07	1.59 y	35:53	-	0.746	
129	Unk	PCB-86	100.00	3.83e+07	1.57 y	36:02	-	0.830	
130	Unk	PCB-125	300.00	1.37e+08	1.58 y	36:09	-	0.990	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	1.37e+08	1.58 y	36:09	-	0.990	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	1.37e+08	1.58 y	36:09	-	0.990	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	1.05e+08	1.57 y	36:17	-	1.14	Co-elute PCB 115
134	Unk	PCB-115	200.00	1.05e+08	1.57 y	36:17	-	1.14	Co-elute PCB 111
135	Unk	PCB-85	200.00	9.11e+07	1.60 y	36:25	-	0.987	Co-elute PCB 116
136	Unk	PCB-116	200.00	9.11e+07	1.60 y	36:25	-	0.987	Co-elute PCB 85
137	Unk	PCB-120	100.00	5.46e+07	1.61 y	36:38	-	1.18	
138	Unk	PCB-110	100.00	5.20e+07	1.60 y	36:46	-	1.13	
139	Unk	PCB-82	100.00	3.04e+07	1.57 y	37:23	-	0.658	
140	Unk	PCB-124	100.00	5.21e+07	1.53 y	38:02	-	1.13	
141	Unk	PCB-108	200.00	9.96e+07	1.53 y	38:10	-	1.08	Co-elute PCB 107
142	Unk	PCB-107	200.00	9.96e+07	1.53 y	38:10	-	1.08	Co-elute PCB 108
143	Unk	PCB-123	100.00	4.46e+07	1.59 y	38:20	-	1.02	
144	IS	13C-PCB-123	100.00	4.39e+07	1.56 y	38:18	-	1.21	
145	Unk	PCB-118	200.00	1.02e+08	1.52 y	38:32	-	1.04	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.02e+08	1.52 y	38:32	-	1.04	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	4.92e+07	1.57 y	38:28	-	1.36	
148	Unk	PCB-114	100.00	5.18e+07	1.52 y	39:06	-	1.13	
149	IS	13C-PCB-114	100.00	4.58e+07	1.59 y	39:06	-	1.26	
150	Unk	PCB-122	100.00	4.80e+07	1.57 y	39:14	-	1.04	
151	Unk	PCB-105	100.00	5.14e+07	1.51 y	39:56	-	1.12	
152	IS	13C-PCB-105	100.00	4.58e+07	1.57 y	39:54	-	1.26	
153	Unk	PCB-127	100.00	4.73e+07	1.52 y	40:15	-	1.03	
154	Unk	PCB-126	100.00	4.57e+07	1.53 y	42:02	-	1.08	
155	IS	13C-PCB-126	100.00	4.25e+07	1.57 y	42:02	-	1.17	

156	Unk	PCB-151	100.00	3.69e+07	1.27 y	37:45	-	0.875	
157	Unk	PCB-135	100.00	3.50e+07	1.26 y	37:59	-	0.830	
158	Unk	PCB-144	100.00	4.28e+07	1.25 y	38:04	-	1.01	
159	Unk	PCB-147	100.00	3.94e+07	1.25 y	38:12	-	0.933	
160	Unk	PCB-139	200.00	8.34e+07	1.24 y	38:27	-	0.988	Co-elute PCB 149
161	Unk	PCB-149	200.00	8.34e+07	1.24 y	38:27	-	0.988	Co-elute PCB 139
162	Unk	PCB-140	100.00	3.91e+07	1.24 y	38:37	-	0.926	
163	Unk	PCB-143	200.00	6.48e+07	1.25 y	39:01	-	0.768	Co-elute PCB 134
164	Unk	PCB-134	200.00	6.48e+07	1.25 y	39:01	-	0.768	Co-elute PCB 143
165	Unk	PCB-131	200.00	6.55e+07	1.26 y	39:18	-	0.776	Co-elute PCB 133
166	Unk	PCB-133	200.00	6.55e+07	1.26 y	39:18	-	0.776	Co-elute PCB 131
167	Unk	PCB-142	100.00	3.24e+07	1.24 y	39:28	-	0.769	
168	Unk	PCB-165	200.00	8.75e+07	1.26 y	39:39	-	1.04	Co-elute PCB 146
169	Unk	PCB-146	200.00	8.75e+07	1.26 y	39:39	-	1.04	Co-elute PCB 165
170	Unk	PCB-161	200.00	8.02e+07	1.26 y	39:52	-	0.950	Co-elute PCB 132
171	Unk	PCB-132	200.00	8.02e+07	1.26 y	39:52	-	0.950	Co-elute PCB 161
172	Unk	PCB-153	100.00	4.57e+07	1.26 y	40:04	-	1.08	
173	Unk	PCB-168	100.00	4.93e+07	1.28 y	40:15	-	1.17	
174	Unk	PCB-141	100.00	3.59e+07	1.26 y	40:45	-	0.851	
175	Unk	PCB-137	100.00	3.26e+07	1.24 y	41:08	-	0.772	
176	Unk	PCB-130	100.00	3.45e+07	1.26 y	41:13	-	0.817	
177	Unk	PCB-138	300.00	1.32e+08	1.25 y	41:34	-	1.04	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	1.32e+08	1.25 y	41:34	-	1.04	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	1.32e+08	1.25 y	41:34	-	1.04	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	9.77e+07	1.26 y	41:47	-	1.16	Co-elute PCB 160
181	Unk	PCB-160	200.00	9.77e+07	1.26 y	41:47	-	1.16	Co-elute PCB 158
182	Unk	PCB-129	100.00	3.07e+07	1.23 y	42:02	-	0.726	
183	Unk	PCB-166	100.00	4.62e+07	1.24 y	42:29	-	1.09	
184	Unk	PCB-159	100.00	5.09e+07	1.26 y	42:45	-	1.20	
185	Unk	PCB-128	200.00	7.96e+07	1.24 y	43:02	-	0.943	Co-elute PCB 162
186	Unk	PCB-162	200.00	7.96e+07	1.24 y	43:02	-	0.943	Co-elute PCB 128
187	Unk	PCB-167	100.00	4.50e+07	1.25 y	43:25	-	1.07	
188	IS	13C-PCB-167	100.00	4.21e+07	1.29 y	43:23	-	1.16	
189	Unk	PCB-156	100.00	4.79e+07	1.24 y	44:39	-	1.14	
190	IS	13C-PCB-156	100.00	4.21e+07	1.29 y	44:37	-	1.16	
191	Unk	PCB-157	100.00	4.60e+07	1.25 y	44:53	-	1.08	
192	IS	13C-PCB-157	100.00	4.24e+07	1.28 y	44:52	-	1.17	
193	Unk	PCB-169	100.00	4.45e+07	1.26 y	46:45	-	1.05	
194	IS	13C-PCB-169	100.00	4.22e+07	1.28 y	46:44	-	1.16	
195	Unk	PCB-188	100.00	4.54e+07	1.06 y	39:42	-	1.09	
196	IS	13C-PCB-188	100.00	4.17e+07	1.07 y	39:41	-	1.15	

197	Unk	PCB-184	100.00	4.73e+07	1.04 y	40:07	-	1.21	
198	Unk	PCB-179	100.00	4.49e+07	1.06 y	40:51	-	1.15	
199	Unk	PCB-176	100.00	4.35e+07	1.05 y	41:18	-	1.11	
200	Unk	PCB-186	100.00	4.41e+07	1.06 y	41:52	-	1.12	
201	Unk	PCB-178	100.00	3.02e+07	1.07 y	42:20	-	0.770	
202	Unk	PCB-175	100.00	3.14e+07	1.05 y	42:40	-	0.799	
203	Unk	PCB-187	200.00	6.96e+07	1.06 y	42:50	-	0.886	Co-elute PCB 182
204	Unk	PCB-182	200.00	6.96e+07	1.06 y	42:50	-	0.886	Co-elute PCB 187
205	Unk	PCB-183	100.00	3.39e+07	1.06 y	43:08	-	0.863	
206	Unk	PCB-185	100.00	3.09e+07	1.05 y	43:46	-	0.788	
207	Unk	PCB-174	100.00	3.19e+07	1.06 y	44:06	-	0.813	
208	Unk	PCB-181	100.00	3.05e+07	1.06 y	44:12	-	0.776	
209	Unk	PCB-177	100.00	2.86e+07	1.07 y	44:21	-	0.728	
210	Unk	PCB-171	100.00	3.15e+07	1.04 y	44:39	-	0.802	
211	Unk	PCB-173	100.00	2.75e+07	1.07 y	45:02	-	0.701	
212	Unk	PCB-172	100.00	2.95e+07	1.07 y	45:25	-	0.751	
213	Unk	PCB-192	100.00	3.87e+07	1.05 y	45:36	-	0.986	
214	Unk	PCB-180	100.00	3.03e+07	1.06 y	45:46	-	0.771	
215	Unk	PCB-193	100.00	4.09e+07	1.09 y	45:56	-	1.04	
216	Unk	PCB-191	100.00	4.07e+07	1.07 y	46:09	-	1.04	
217	Unk	PCB-170	100.00	3.04e+07	1.05 y	47:03	-	0.776	
218	Unk	PCB-190	100.00	4.14e+07	1.05 y	47:13	-	1.05	
219	Unk	PCB-189	100.00	4.12e+07	1.06 y	48:26	-	1.12	
220	IS	13C-PCB-189	100.00	3.68e+07	1.07 y	48:24	-	1.01	
221	Unk	PCB-202	150.00	5.12e+07	0.91 y	44:49	-	0.983	
222	Unk	PCB-201	150.00	5.57e+07	0.92 y	45:15	-	1.07	
223	Unk	PCB-204	150.00	5.42e+07	0.93 y	45:23	-	1.04	
224	Unk	PCB-197	150.00	5.75e+07	0.91 y	45:40	-	1.10	
225	Unk	PCB-200	150.00	5.51e+07	0.93 y	46:24	-	1.06	
226	Unk	PCB-198	150.00	4.26e+07	0.90 y	47:35	-	0.817	
227	Unk	PCB-199	150.00	4.02e+07	0.93 y	47:40	-	0.770	
228	Unk	PCB-203	300.00	8.86e+07	0.93 y	47:56	-	0.849	Co-elute PCB 196
229	Unk	PCB-196	300.00	8.86e+07	0.93 y	47:56	-	0.849	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	3.48e+07	0.92 y	44:47	-	0.958	
231	C/Up	13C-PCB-178	100.00	2.69e+07	1.08 y	42:19	-	0.741	
232	RS	13C-PCB-138	100.00	3.63e+07	1.27 y	41:33	3.63e+05	-	
233	Unk	PCB-195	150.00	4.84e+07	0.89 y	49:02	-	0.768	
234	Unk	PCB-194	150.00	5.15e+07	0.89 y	49:49	-	0.818	
235	Unk	PCB-205	150.00	6.59e+07	0.90 y	50:05	-	1.05	
236	IS	13C-PCB-205	100.00	4.20e+07	0.90 y	50:04	-	1.30	
237	Unk	PCB-208	150.00	6.46e+07	1.37 y	49:08	-	0.998	
238	IS	13C-PCB-208	100.00	4.32e+07	0.79 y	49:07	-	1.34	
239	Unk	PCB-207	150.00	6.46e+07	1.35 y	49:26	-	1.17	
240	Unk	PCB-206	150.00	4.81e+07	1.34 y	51:17	-	1.05	
241	IS	13C-PCB-206	100.00	3.05e+07	0.80 y	51:16	-	0.948	
242	Unk	PCB-209	150.00	6.62e+07	1.18 y	52:27	-	1.11	
243	IS	13C-PCB-209	100.00	3.98e+07	1.22 y	52:26	-	1.24	
244	RS	13C-PCB-194	100.00	3.22e+07	0.90 y	49:48	3.22e+05	-	

Analyst: _____ Date: 8/7/19

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/7/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 07AUG19Z Sam:1 Analysis Date: 7-AUG-19 06:23:47

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.13	2.66-3.60	y	49.9	37.5 - 62.5
PCB-3	M/M+2	3.18	2.66-3.60	y	48.5	37.5 - 62.5
PCB-4	M/M+2	1.56	1.33-1.79	y	44.6	37.5 - 62.5
PCB-15	M/M+2	1.52	1.33-1.79	y	47.3	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	48.7	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	48.1	37.5 - 62.5
PCB-54	M/M+2	0.81	0.65-0.89	y	50.7	37.5 - 62.5
PCB-77	M/M+2	0.76	0.65-0.89	y	51.5	37.5 - 62.5
PCB-81	M/M+2	0.76	0.65-0.89	y	46.6	37.5 - 62.5
PCB-104	M+2/M+4	1.57	1.32-1.78	y	51.7	37.5 - 62.5
PCB-105	M+2/M+4	1.53	1.32-1.78	y	44.5	37.5 - 62.5
PCB-114	M+2/M+4	1.52	1.32-1.78	y	44.4	37.5 - 62.5
PCB-118	M+2/M+4	1.55	1.32-1.78	y	48.9	37.5 - 62.5
PCB-123	M+2/M+4	1.56	1.32-1.78	y	52.8	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	46.6	37.5 - 62.5
PCB-155	M+2/M+4	1.29	1.05-1.43	y	48.7	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	46.7	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	47.4	37.5 - 62.5
PCB-167	M+2/M+4	1.23	1.05-1.43	y	48.2	37.5 - 62.5
PCB-169	M+2/M+4	1.25	1.05-1.43	y	49.0	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	50.9	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	48.5	37.5 - 62.5
PCB-202	M+2/M+4	0.93	0.76-1.02	y	49.4	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	50.6	37.5 - 62.5
PCB-206	M+4/M+6	1.34	1.13-1.53	y	49.4	37.5 - 62.5
PCB-208	M+4/M+6	1.39	1.13-1.53	y	51.4	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	50.5	37.5 - 62.5

Analyst: Date: 8/7/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/7/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 07AUG19Z Sam:1 Analysis Date: 7-AUG-19 06:23:47

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.24	2.66-3.60	y	98.8	50.0 - 145
13C-PCB-3	M/M+2	3.26	2.66-3.60	y	104	50.0 - 145
13C-PCB-4	M/M+2	1.55	1.33-1.79	y	99.9	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	104	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	99.8	50.0 - 145
13C-PCB-37	M/M+2	1.04	0.88-1.20	y	109	50.0 - 145
13C-PCB-54	M/M+2	0.84	0.65-0.89	y	91.2	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	93.6	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	98.9	50.0 - 145
13C-PCB-104	M+2/M+4	1.58	1.32-1.78	y	96.6	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	103	50.0 - 145
13C-PCB-114	M+2/M+4	1.59	1.32-1.78	y	106	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	107	50.0 - 145
13C-PCB-123	M+2/M+4	1.58	1.32-1.78	y	103	50.0 - 145
13C-PCB-126	M+2/M+4	1.61	1.32-1.78	y	117	50.0 - 145
13C-PCB-155	M+2/M+4	1.27	1.05-1.43	y	93.6	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	106	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	107	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	116	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	98.8	50.0 - 145
13C-PCB-188	M+2/M+4	1.05	0.89-1.21	y	100	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	103	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	113	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	98.8	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	105	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	102	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	100	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.06	0.88-1.20	y	97.9	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	105	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	116	75.0 - 125

Analyst: _____ Date: 8/7/19

FAL ID: ST080719Z1 Filename: 07AUG19Z Sam:1 Acquired: 7-AUG-19 06:23:47 ICal: DAILY209FAL4-8-7-19
Client ID: 1668 CS3 R181204D ConCal: ST080719Z1 EndCal: ST080719Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.92e+07	3.13 y	14:34	1.11	49.9		2.50	-	-	*	
13C-PCB-1	8.89e+07	3.24 y	14:33	0.91	98.8		2.50				98.8
PCB-3	5.10e+07	3.18 y	16:59	1.15	48.5		2.50	-	-	*	
13C-PCB-3	9.11e+07	3.26 y	16:58	0.89	104		2.50				104
PCB-4	3.29e+07	1.56 y	18:14	1.16	44.6		2.50	-	-	*	
13C-PCB-4	6.35e+07	1.55 y	18:12	0.65	99.9		2.50				99.9
PCB-15	4.85e+07	1.52 y	23:45	1.08	47.3		2.50	-	-	*	
13C-PCB-15	9.51e+07	1.60 y	23:44	0.93	104		2.50				104
PCB-19	2.87e+07	1.06 y	22:07	1.19	48.7		2.50	-	-	*	
13C-PCB-19	4.97e+07	1.08 y	22:05	0.51	99.8		2.50				99.8
13C-PCB-9	9.84e+07	1.61 y	19:53	-	101		2.50				
PCB-37	4.04e+07	1.05 y	30:23	1.09	48.1		2.50	-	-	*	
13C-PCB-37	7.73e+07	1.04 y	30:22	1.32	109		2.50				109
PCB-54	3.70e+07	0.81 y	25:39	1.19	50.7		2.50	-	-	*	
13C-PCB-54	6.13e+07	0.84 y	25:38	1.26	91.2		2.50				91.2
PCB-104	2.89e+07	1.57 y	30:04	1.08	51.7		2.50	-	-	*	
13C-PCB-104	5.20e+07	1.58 y	30:03	1.00	96.6		2.50				96.6
13C-PCB-28	8.74e+07	1.06 y	26:42	1.67	97.9		2.50				97.9
13C-PCB-52	5.36e+07	0.81 y	28:57	-	109		2.50				
PCB-81	3.31e+07	0.76 y	36:09	1.17	46.6		2.50	-	-	*	
13C-PCB-81	6.08e+07	0.80 y	36:08	1.41	98.9		2.50				98.9
PCB-77	3.06e+07	0.76 y	36:42	1.00	51.5		2.50	-	-	*	
13C-PCB-77	5.96e+07	0.81 y	36:41	1.45	93.6		2.50				93.6
PCB-155	2.55e+07	1.29 y	34:13	1.01	48.7		2.50	-	-	*	
13C-PCB-155	5.18e+07	1.27 y	34:12	1.27	93.6		2.50				93.6
13C-PCB-111	5.67e+07	1.61 y	36:17	1.24	105		2.50				105
13C-PCB-101	4.37e+07	1.63 y	34:38	-	117		2.50				
PCB-123	2.67e+07	1.56 y	38:20	1.02	52.8		2.50	-	-	*	
13C-PCB-123	4.97e+07	1.58 y	38:18	1.21	103		2.50				103
PCB-118	2.92e+07	1.55 y	38:30	1.04	48.9		2.50	-	-	*	
13C-PCB-118	5.77e+07	1.61 y	38:30	1.36	107		2.50				107
PCB-114	2.67e+07	1.52 y	39:08	1.13	44.4		2.50	-	-	*	
13C-PCB-114	5.32e+07	1.59 y	39:06	1.26	106		2.50				106
PCB-105	2.58e+07	1.53 y	39:57	1.12	44.5		2.50	-	-	*	
13C-PCB-105	5.16e+07	1.60 y	39:56	1.26	103		2.50				103
PCB-126	2.74e+07	1.57 y	42:04	1.08	46.6		2.50	-	-	*	
13C-PCB-126	5.47e+07	1.61 y	42:02	1.17	117		2.50				117
PCB-167	2.76e+07	1.23 y	43:25	1.07	48.2		2.50	-	-	*	
13C-PCB-167	5.35e+07	1.28 y	43:25	1.16	116		2.50				116
PCB-156	2.61e+07	1.25 y	44:39	1.14	46.7		2.50	-	-	*	
13C-PCB-156	4.91e+07	1.28 y	44:39	1.16	106		2.50				106
PCB-157	2.56e+07	1.24 y	44:55	1.08	47.4		2.50	-	-	*	
13C-PCB-157	4.98e+07	1.30 y	44:54	1.17	107		2.50				107
PCB-169	2.36e+07	1.25 y	46:45	1.05	49.0		2.50	-	-	*	
13C-PCB-169	4.58e+07	1.29 y	46:45	1.16	98.8		2.50				98.8
PCB-188	2.55e+07	1.05 y	39:42	1.09	50.9		2.50	-	-	*	
13C-PCB-188	4.60e+07	1.05 y	39:42	1.15	100		2.50				100
PCB-189	2.27e+07	1.05 y	48:26	1.12	48.5		2.50	-	-	*	
13C-PCB-189	4.17e+07	1.07 y	48:24	1.01	103		2.50				103
PCB-202	2.10e+07	0.93 y	44:50	0.98	49.4		2.50	-	-	*	
13C-PCB-202	4.32e+07	0.90 y	44:49	0.96	113		2.50				113
13C-PCB-178	3.44e+07	1.07 y	42:20	0.74	116		2.50				116
13C-PCB-138	3.98e+07	1.28 y	41:33	-	110		2.50				

FAL ID: ST080719Z1 Filename: 07AUG19Z Sam:1 Acquired: 7-AUG-19 06:23:47 ICal: DAILY209FAL4-8-7-19 2 of 2
Client ID: 1668 CS3 R181204D ConCal: ST080719Z1 EndCal: ST080719Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	2.39e+07	0.90	y	50:05	1.05	50.6	2.50	-	-	*	
13C-PCB-205	4.51e+07	0.89	y	50:05	1.30	98.8	2.50				98.8
PCB-208	2.46e+07	1.39	y	49:10	1.00	51.4	2.50	-	-	*	
13C-PCB-208	4.80e+07	0.81	y	49:08	1.34	102	2.50				102
PCB-206	1.81e+07	1.34	y	51:17	1.05	49.4	2.50	-	-	*	
13C-PCB-206	3.48e+07	0.80	y	51:16	0.95	105	2.50				105
PCB-209	2.44e+07	1.19	y	52:29	1.11	50.5	2.50	-	-	*	
13C-PCB-209	4.35e+07	1.20	y	52:27	1.24	100	2.50				100
13C-PCB-194	3.50e+07	0.90	y	49:50	-	109	2.50				

Analyst: [illegible] Date: 8/7/19

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/7/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 07AUG19Z Sam:15 Analysis Date: 7-AUG-19 20:01:51

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.11	2.66-3.60	y	52.6	37.5 - 62.5
PCB-3	M/M+2	3.04	2.66-3.60	y	50.9	37.5 - 62.5
PCB-4	M/M+2	1.46	1.33-1.79	y	46.6	37.5 - 62.5
PCB-15	M/M+2	1.58	1.33-1.79	y	48.7	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	48.6	37.5 - 62.5
PCB-37	M/M+2	1.00	0.88-1.20	y	49.3	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	51.9	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	55.2	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	48.8	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	51.2	37.5 - 62.5
PCB-105	M+2/M+4	1.56	1.32-1.78	y	47.5	37.5 - 62.5
PCB-114	M+2/M+4	1.56	1.32-1.78	y	48.6	37.5 - 62.5
PCB-118	M+2/M+4	1.57	1.32-1.78	y	51.6	37.5 - 62.5
PCB-123	M+2/M+4	1.54	1.32-1.78	y	53.6	37.5 - 62.5
PCB-126	M+2/M+4	1.56	1.32-1.78	y	50.7	37.5 - 62.5
PCB-155	M+2/M+4	1.37	1.05-1.43	y	49.2	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	48.3	37.5 - 62.5
PCB-157	M+2/M+4	1.31	1.05-1.43	y	49.8	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	49.9	37.5 - 62.5
PCB-169	M+2/M+4	1.24	1.05-1.43	y	51.7	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	47.9	37.5 - 62.5
PCB-189	M+2/M+4	1.09	0.89-1.21	y	48.1	37.5 - 62.5
PCB-202	M+2/M+4	0.92	0.76-1.02	y	51.1	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	51.2	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	48.9	37.5 - 62.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	50.5	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	50.7	37.5 - 62.5

Analyst: _____ Date: 8/8/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/7/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 07AUG19Z Sam:15 Analysis Date: 7-AUG-19 20:01:51

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.18	2.66-3.60	y	104	50.0 - 145
13C-PCB-3	M/M+2	3.15	2.66-3.60	y	99.7	50.0 - 145
13C-PCB-4	M/M+2	1.62	1.33-1.79	y	119	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	95.4	50.0 - 145
13C-PCB-19	M/M+2	1.06	0.88-1.20	y	111	50.0 - 145
13C-PCB-37	M/M+2	1.05	0.88-1.20	y	98.4	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	116	50.0 - 145
13C-PCB-77	M/M+2	0.82	0.65-0.89	y	94.2	50.0 - 145
13C-PCB-81	M/M+2	0.82	0.65-0.89	y	95.5	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	117	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	107	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	106	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	108	50.0 - 145
13C-PCB-123	M+2/M+4	1.60	1.32-1.78	y	111	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	106	50.0 - 145
13C-PCB-155	M+2/M+4	1.27	1.05-1.43	y	119	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	102	50.0 - 145
13C-PCB-157	M+2/M+4	1.32	1.05-1.43	y	110	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	108	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	107	50.0 - 145
13C-PCB-188	M+2/M+4	1.05	0.89-1.21	y	116	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	116	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	122	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	104	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	102	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	99.7	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	99.2	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.03	0.88-1.20	y	104	65.0 - 135
13C-PCB-111	M+2/M+4	1.62	1.32-1.78	y	102	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	115	75.0 - 125

Analyst: [illegible] Date: 8/8/19

FAL ID: ST080719Z2 Filename: 07AUG19Z Sam:15 Acquired: 7-AUG-19 20:01:51 ICal: DAILY209FAL4-8-7-19
Client ID: 1668 CS3 R181204D ConCal: ST080719Z1 EndCal: ST080719Z2
Results: 12513 GC Column: DB1MS Amount: 1.000

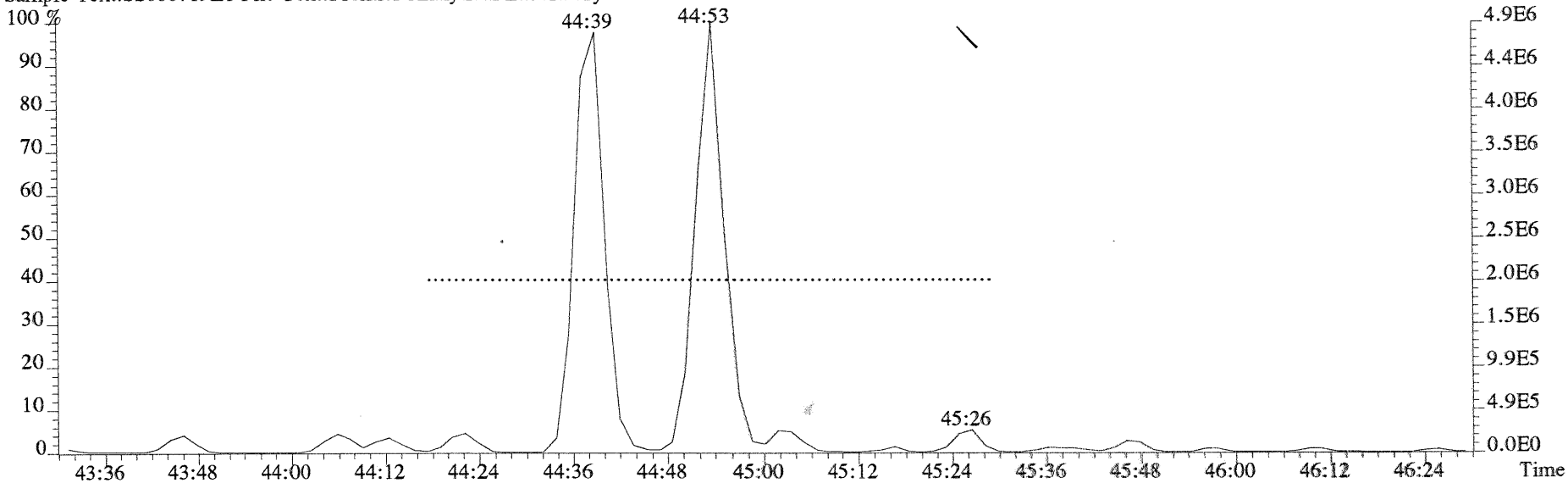
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.99e+07	3.11 y	14:31	1.11	52.6		2.50	-	-	*	
13C-PCB-1	1.20e+08	3.18 y	14:31	0.91	104		2.50				104
PCB-3	6.56e+07	3.04 y	16:58	1.15	50.9		2.50	-	-	*	
13C-PCB-3	1.12e+08	3.15 y	16:57	0.89	99.7		2.50				99.7
PCB-4	5.25e+07	1.46 y	18:12	1.16	46.6		2.50	-	-	*	
13C-PCB-4	9.70e+07	1.62 y	18:10	0.65	119		2.50				119
PCB-15	5.90e+07	1.58 y	23:43	1.08	48.7		2.50	-	-	*	
13C-PCB-15	1.12e+08	1.60 y	23:42	0.93	95.4		2.50				95.4
PCB-19	4.11e+07	1.06 y	22:04	1.19	48.6		2.50	-	-	*	
13C-PCB-19	7.12e+07	1.06 y	22:03	0.51	111		2.50				111
13C-PCB-9	1.26e+08	1.61 y	19:51	-	130		2.50				
PCB-37	4.29e+07	1.00 y	30:22	1.09	49.3		2.50	-	-	*	
13C-PCB-37	8.02e+07	1.05 y	30:21	1.32	98.4		2.50				98.4
PCB-54	5.58e+07	0.79 y	25:36	1.19	51.9		2.50	-	-	*	
13C-PCB-54	9.02e+07	0.82 y	25:35	1.26	116		2.50				116
PCB-104	4.00e+07	1.59 y	30:02	1.08	51.2		2.50	-	-	*	
13C-PCB-104	7.26e+07	1.60 y	30:01	1.00	117		2.50				117
13C-PCB-28	1.07e+08	1.03 y	26:40	1.67	104		2.50				104
13C-PCB-52	6.18e+07	0.80 y	28:55	-	125		2.50				
PCB-81	3.07e+07	0.78 y	36:07	1.17	48.8		2.50	-	-	*	
13C-PCB-81	5.40e+07	0.82 y	36:06	1.41	95.5		2.50				95.5
PCB-77	3.04e+07	0.79 y	36:41	1.00	55.2		2.50	-	-	*	
13C-PCB-77	5.51e+07	0.82 y	36:40	1.45	94.2		2.50				94.2
PCB-155	3.02e+07	1.37 y	34:11	1.01	49.2		2.50	-	-	*	
13C-PCB-155	6.08e+07	1.27 y	34:09	1.27	119		2.50				119
13C-PCB-111	5.05e+07	1.62 y	36:13	1.24	102		2.50				102
13C-PCB-101	4.02e+07	1.64 y	34:36	-	107		2.50				
PCB-123	2.71e+07	1.54 y	38:17	1.02	53.6		2.50	-	-	*	
13C-PCB-123	4.97e+07	1.60 y	38:17	1.21	111		2.50				111
PCB-118	2.88e+07	1.57 y	38:28	1.04	51.6		2.50	-	-	*	
13C-PCB-118	5.40e+07	1.58 y	38:27	1.36	108		2.50				108
PCB-114	2.72e+07	1.56 y	39:04	1.13	48.6		2.50	-	-	*	
13C-PCB-114	4.96e+07	1.61 y	39:04	1.26	106		2.50				106
PCB-105	2.67e+07	1.56 y	39:54	1.12	47.5		2.50	-	-	*	
13C-PCB-105	5.00e+07	1.60 y	39:52	1.26	107		2.50				107
PCB-126	2.51e+07	1.56 y	42:01	1.08	50.7		2.50	-	-	*	
13C-PCB-126	4.60e+07	1.60 y	42:01	1.17	106		2.50				106
PCB-167	2.46e+07	1.26 y	43:23	1.07	49.9		2.50	-	-	*	
13C-PCB-167	4.62e+07	1.28 y	43:21	1.16	108		2.50				108
PCB-156	2.41e+07	1.26 y	44:37	1.14	48.3		2.50	-	-	*	
13C-PCB-156	4.39e+07	1.29 y	44:35	1.16	102		2.50				102
PCB-157	2.57e+07	1.31 y	44:52	1.08	49.8		2.50	-	-	*	
13C-PCB-157	4.76e+07	1.32 y	44:50	1.17	110		2.50				110
PCB-169	2.52e+07	1.24 y	46:44	1.05	51.7		2.50	-	-	*	
13C-PCB-169	4.62e+07	1.29 y	46:42	1.16	107		2.50				107
PCB-188	2.56e+07	1.05 y	39:39	1.09	47.9		2.50	-	-	*	
13C-PCB-188	4.91e+07	1.05 y	39:39	1.15	116		2.50				116
PCB-189	2.35e+07	1.09 y	48:24	1.12	48.1		2.50	-	-	*	
13C-PCB-189	4.36e+07	1.07 y	48:22	1.01	116		2.50				116
PCB-202	2.16e+07	0.92 y	44:47	0.98	51.1		2.50	-	-	*	
13C-PCB-202	4.31e+07	0.90 y	44:45	0.96	122		2.50				122
13C-PCB-178	3.14e+07	1.05 y	42:17	0.74	115		2.50				115
13C-PCB-138	3.70e+07	1.26 y	41:29	-	102		2.50				

FAL ID: ST080719Z2 Filename: 07AUG19Z Sam:15 Acquired: 7-AUG-19 20:01:51 ICal: DAILY209FAL4-8-7-19
Client ID: 1668 CS3 R181204D ConCal: ST080719Z1 EndCal: ST080719Z2
Results: 12513 GC Column: DB1MS Amount: 1.000

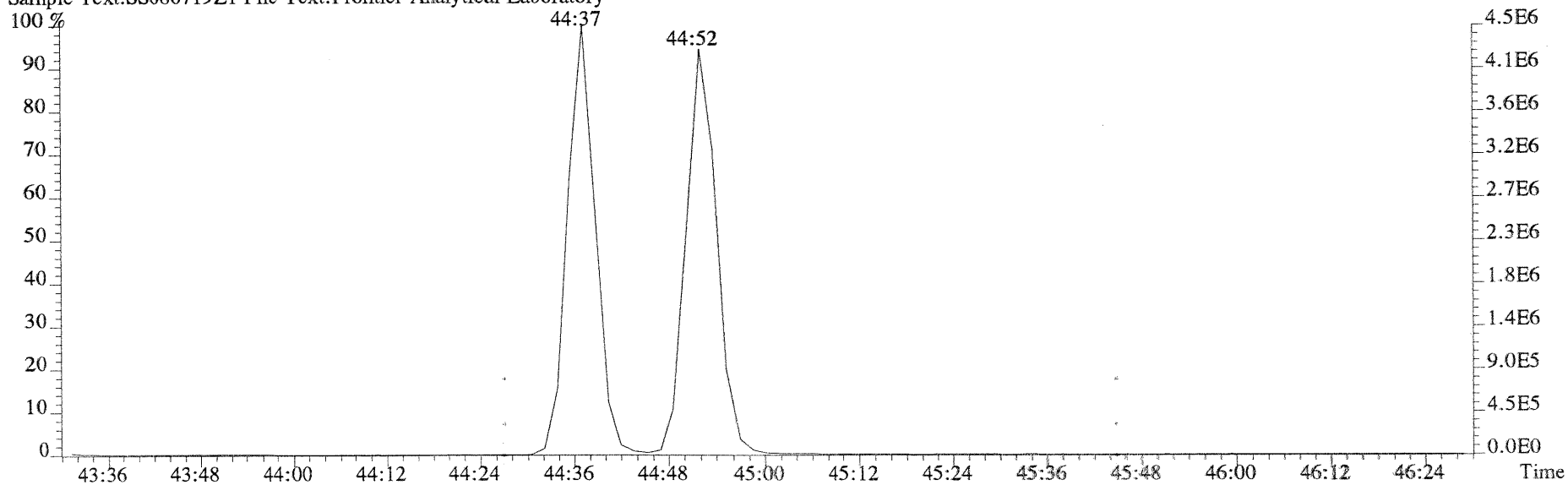
PCB-205	2.88e+07	0.89 y	50:04	1.05	51.2	2.50	-	-	*	
13C-PCB-205	5.38e+07	0.90 y	50:02	1.30	104	2.50				104
PCB-208	2.66e+07	1.34 y	49:07	1.00	50.5	2.50	-	-	*	
13C-PCB-208	5.29e+07	0.81 y	49:06	1.34	99.7	2.50				99.7
PCB-206	1.97e+07	1.35 y	51:15	1.05	48.9	2.50	-	-	*	
13C-PCB-206	3.83e+07	0.80 y	51:14	0.95	102	2.50				102
PCB-209	2.73e+07	1.18 y	52:26	1.11	50.7	2.50	-	-	*	
13C-PCB-209	4.85e+07	1.20 y	52:25	1.24	99.2	2.50				99.2
13C-PCB-194	3.95e+07	0.90 y	49:47	-	123	2.50				

Analyst: Date: 8/8/19

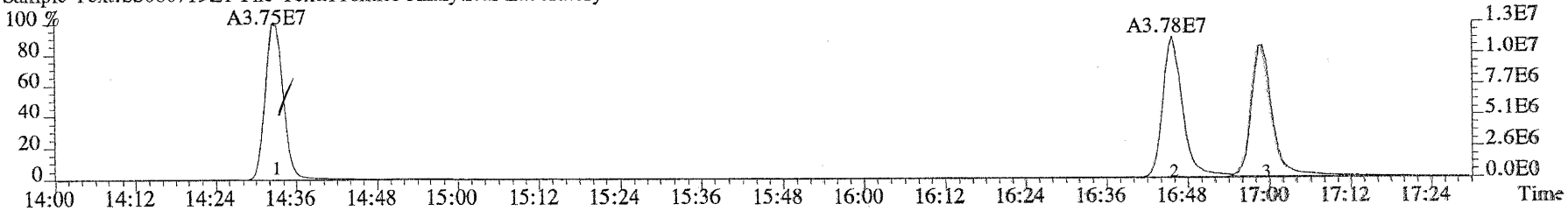
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



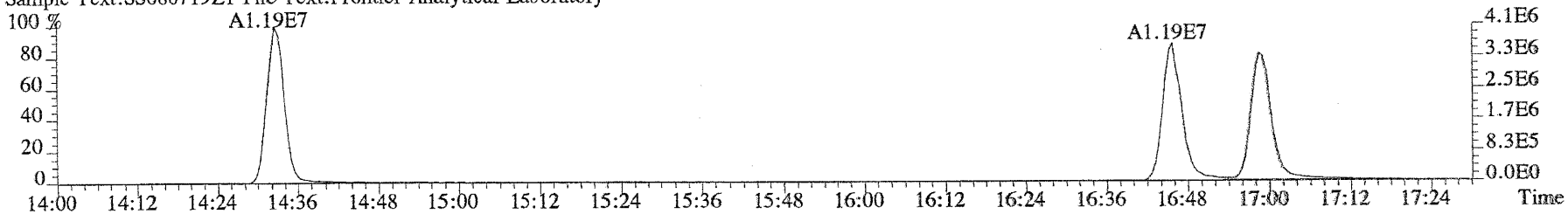
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



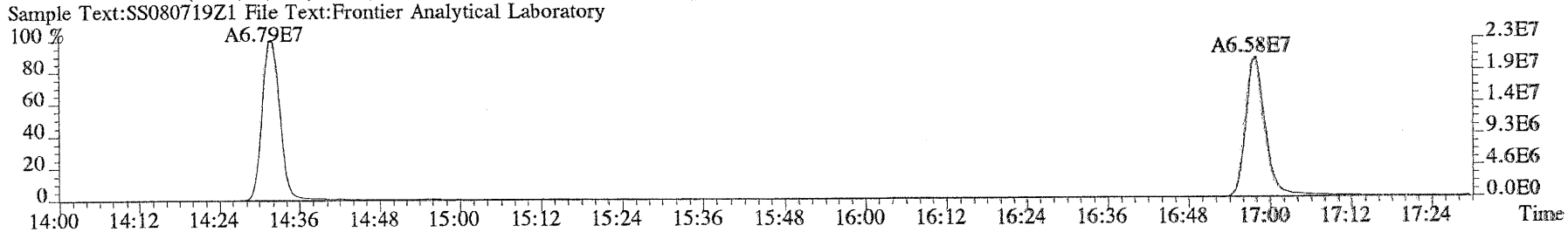
File:07AUG19Z #1-783 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



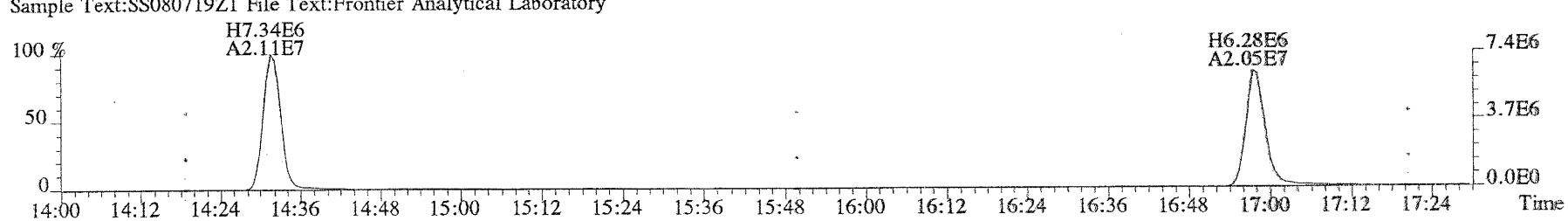
File:07AUG19Z #1-783 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



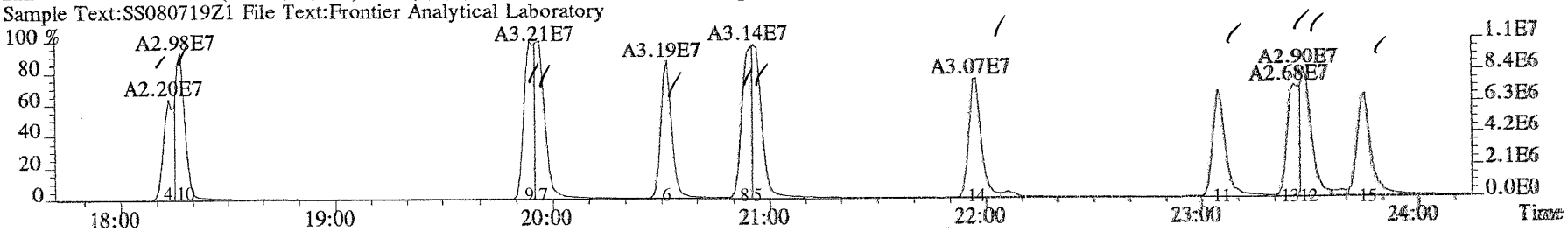
File:07AUG19Z #1-783 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



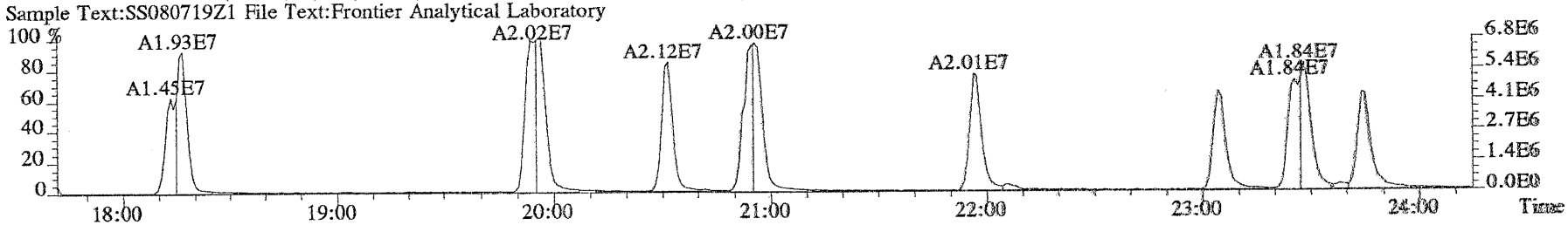
File:07AUG19Z #1-783 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



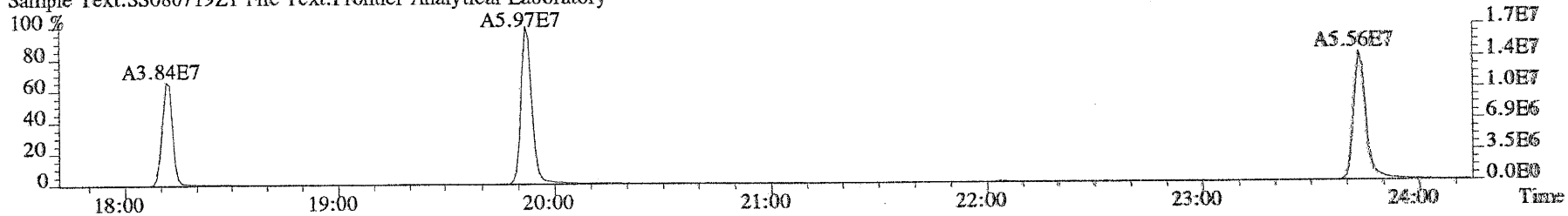
File:07AUG19Z #1-520 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



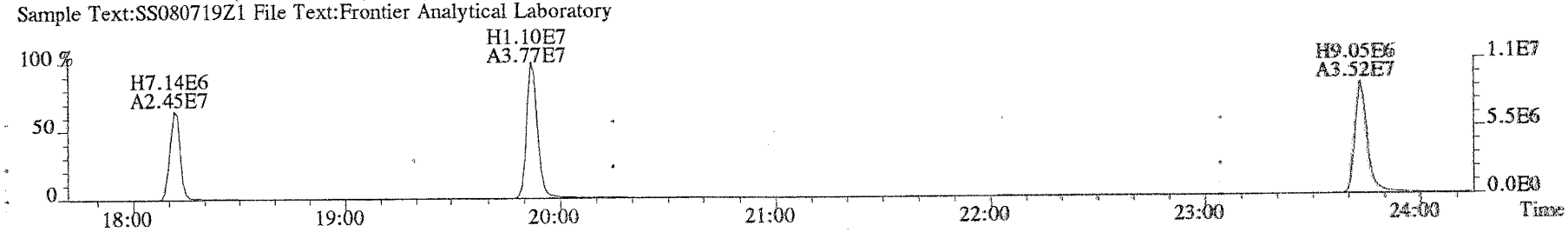
File:07AUG19Z #1-520 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



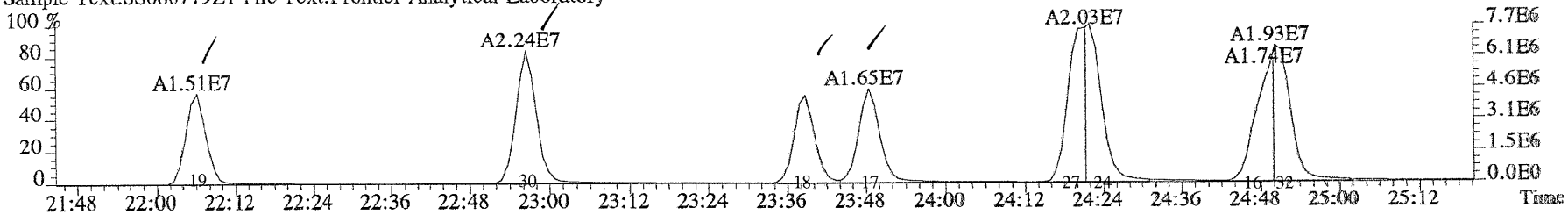
File:07AUG19Z #1-520 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



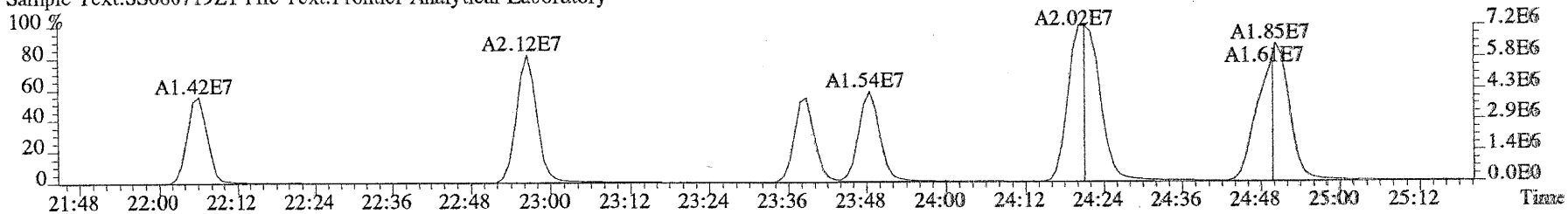
File:07AUG19Z #1-520 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



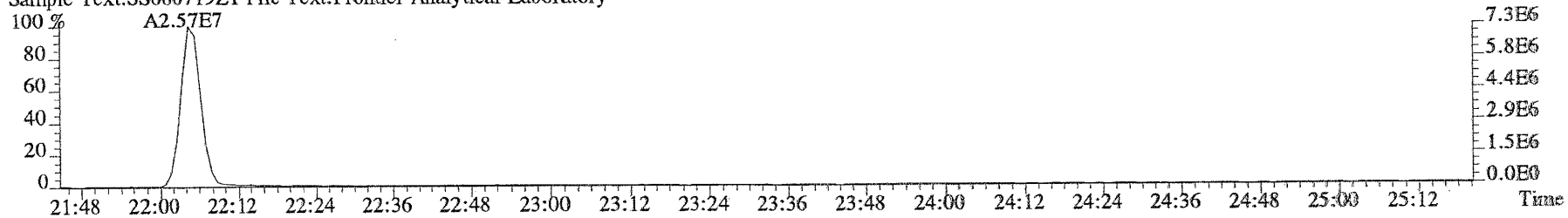
File:07AUG19Z #1-520 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



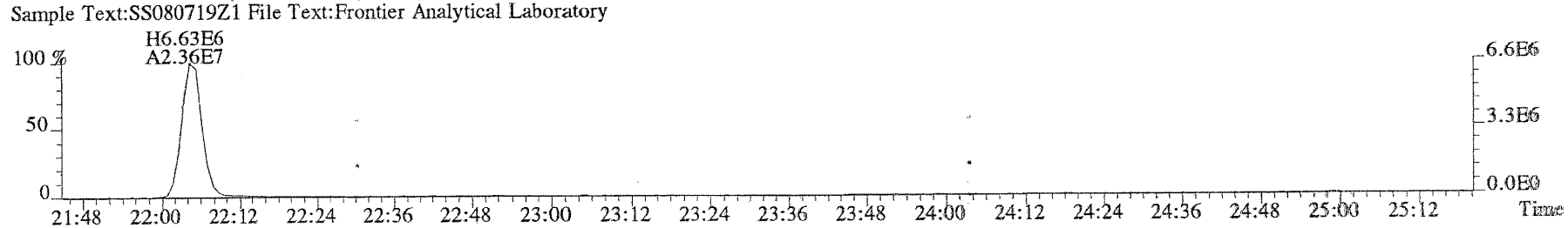
File:07AUG19Z #1-520 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



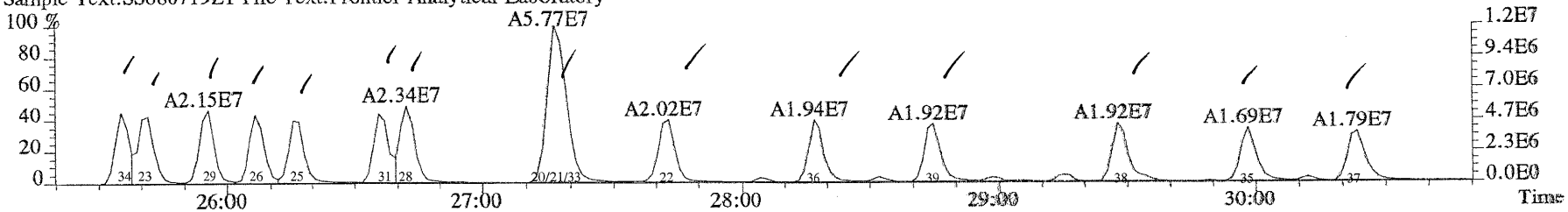
File:07AUG19Z #1-520 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



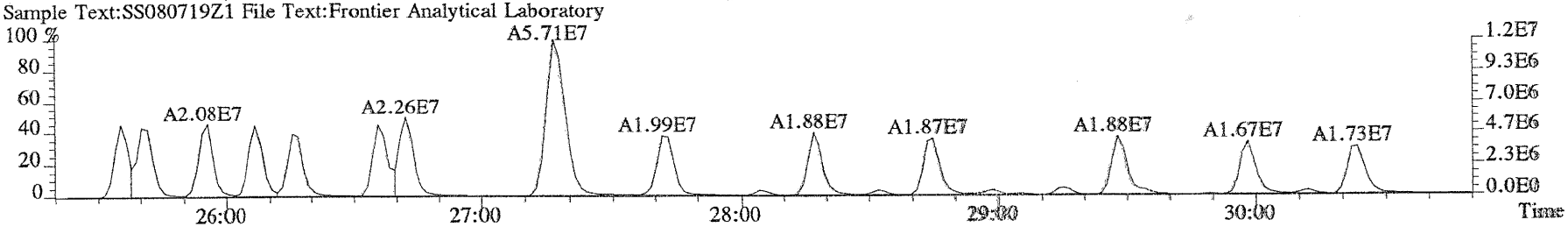
File:07AUG19Z #1-520 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



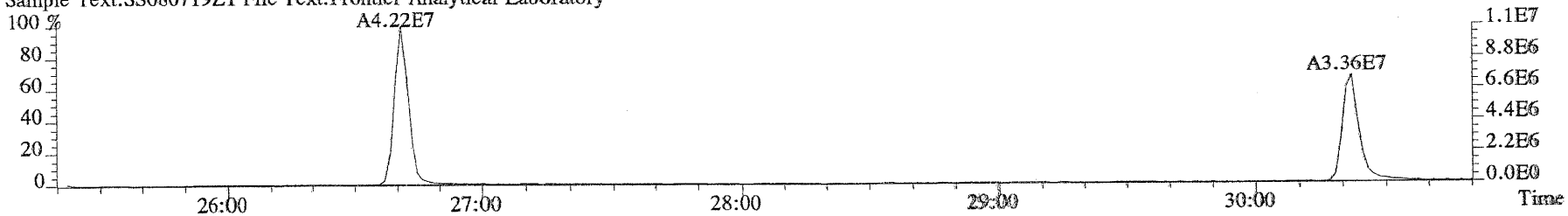
File:07AUG19Z #1-401 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



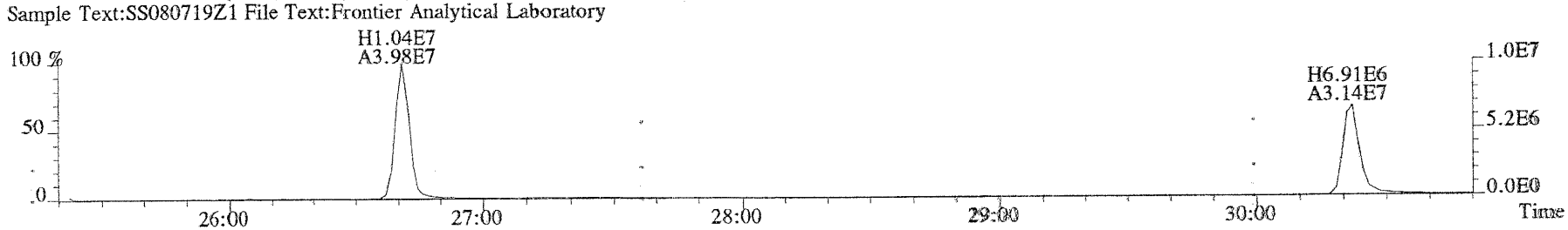
File:07AUG19Z #1-401 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



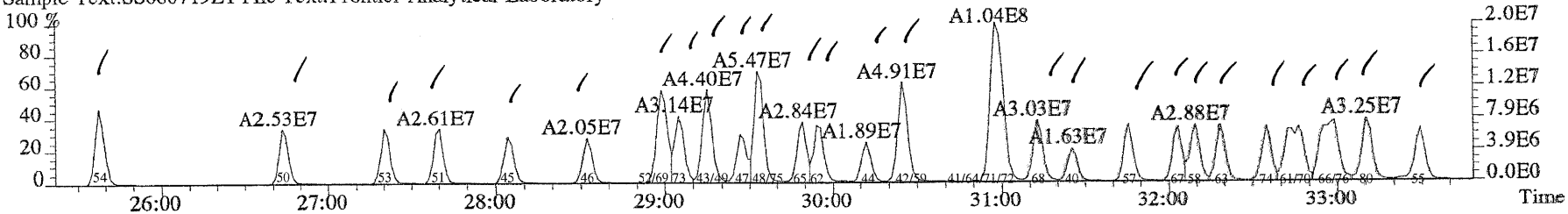
File:07AUG19Z #1-401 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



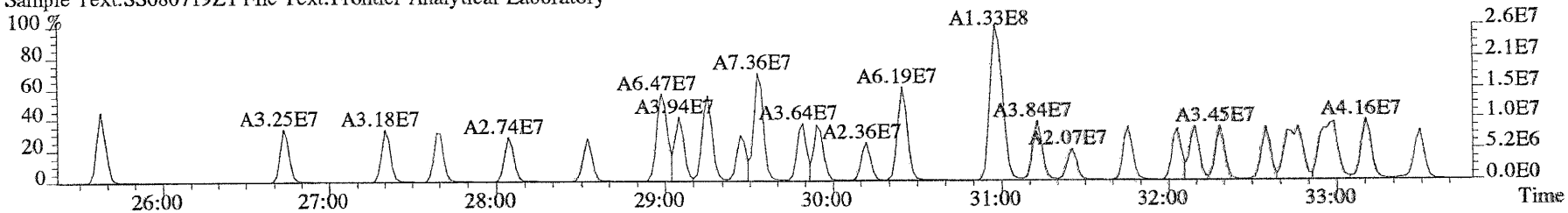
File:07AUG19Z #1-401 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



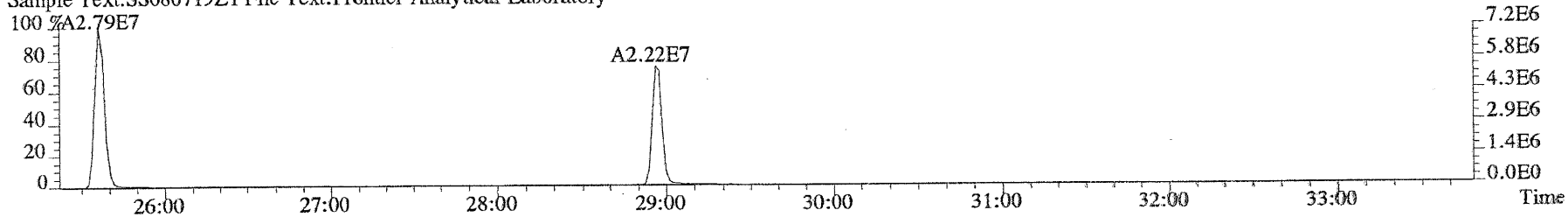
File:07AUG19Z #1-401 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



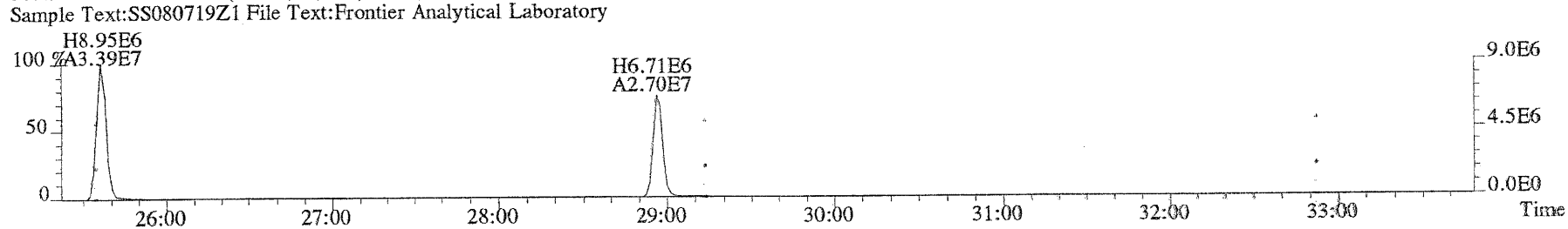
File:07AUG19Z #1-401 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



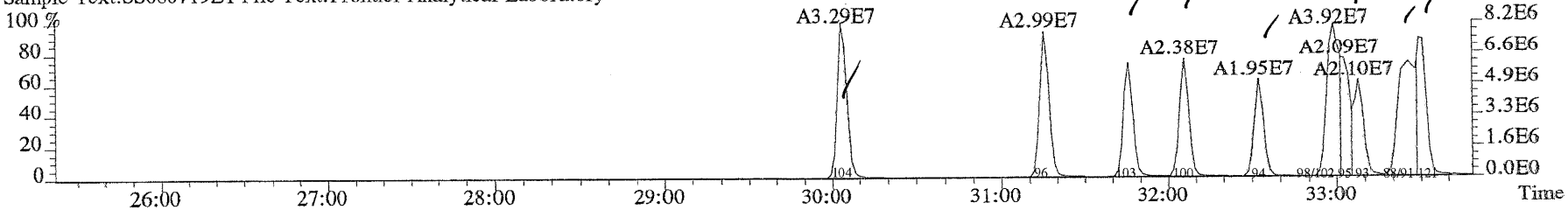
File:07AUG19Z #1-401 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



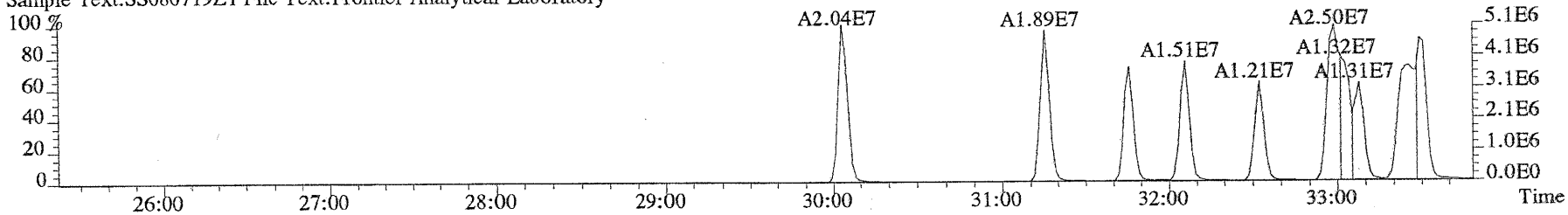
File:07AUG19Z #1-401 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



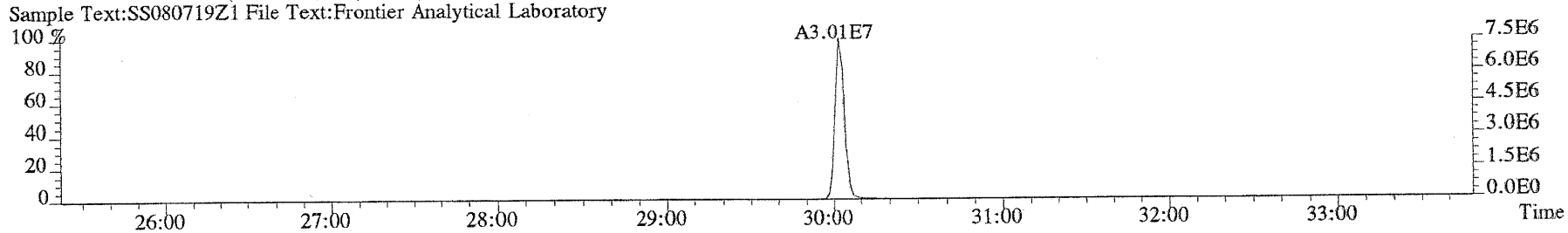
File:07AUG19Z #1-401 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



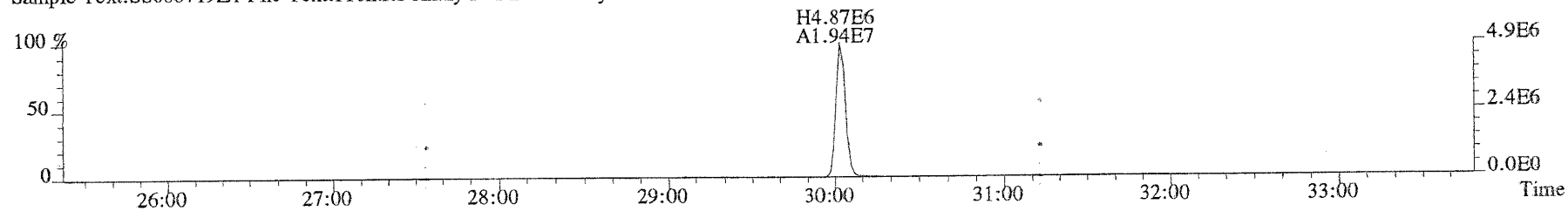
File:07AUG19Z #1-401 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



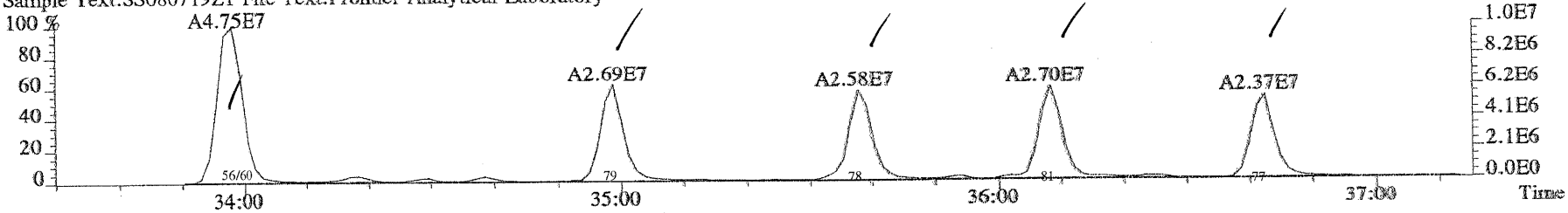
File:07AUG19Z #1-401 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



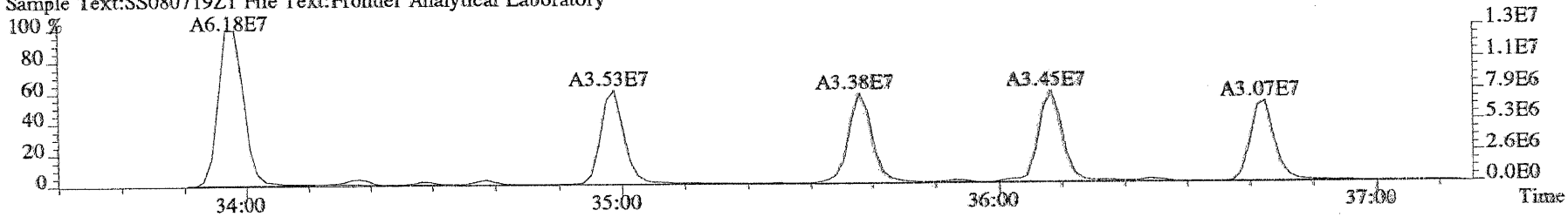
File:07AUG19Z #1-401 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



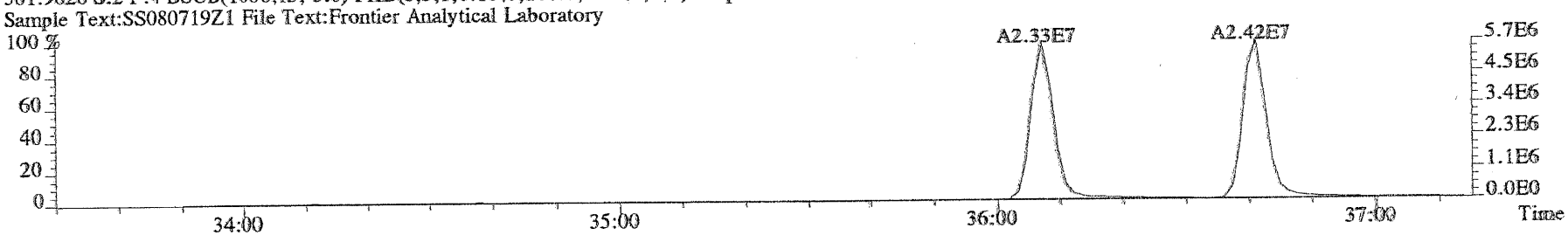
File:07AUG19Z #1-181 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



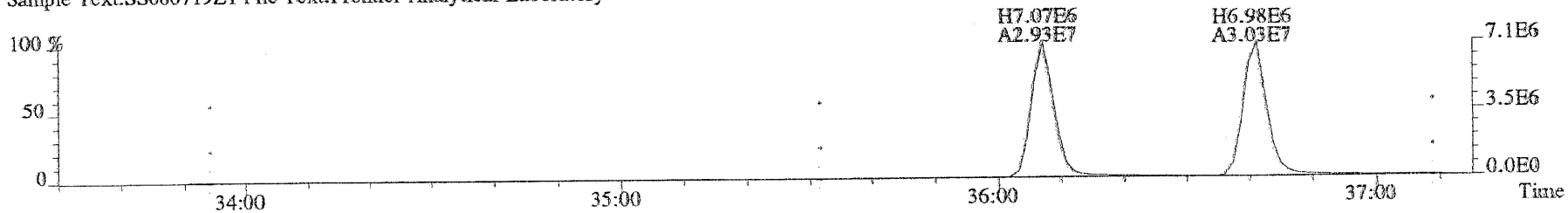
File:07AUG19Z #1-181 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



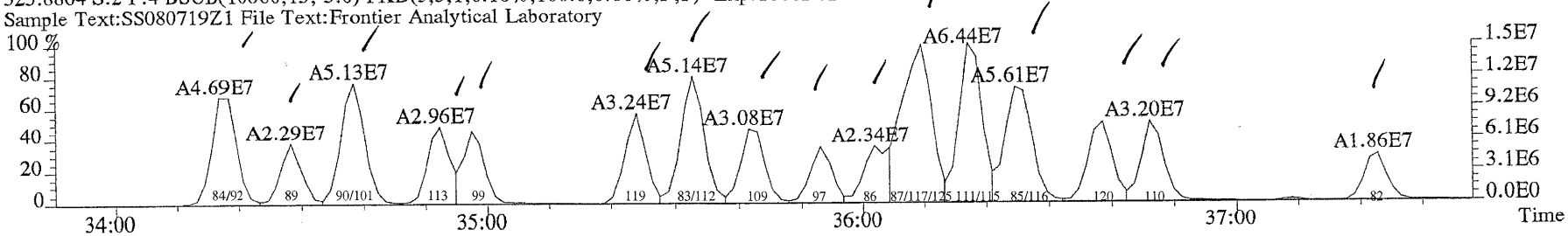
File:07AUG19Z #1-181 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



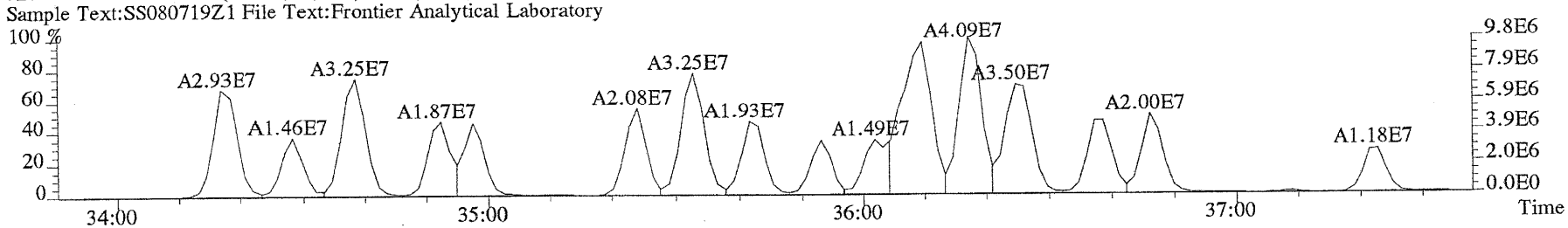
File:07AUG19Z #1-181 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



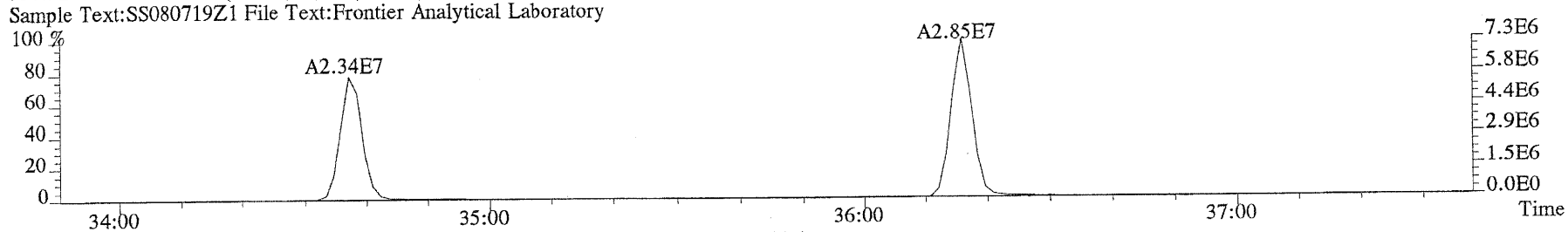
File:07AUG19Z #1-181 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



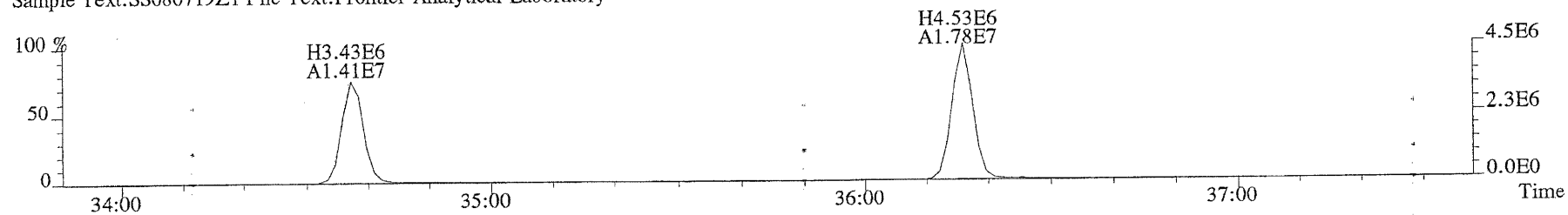
File:07AUG19Z #1-181 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



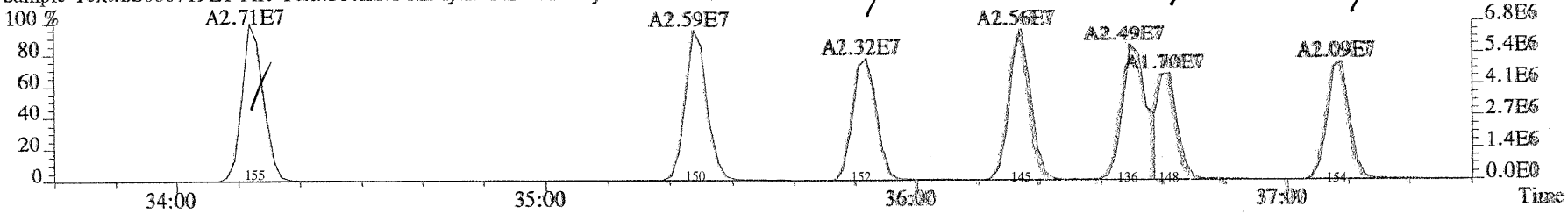
File:07AUG19Z #1-181 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



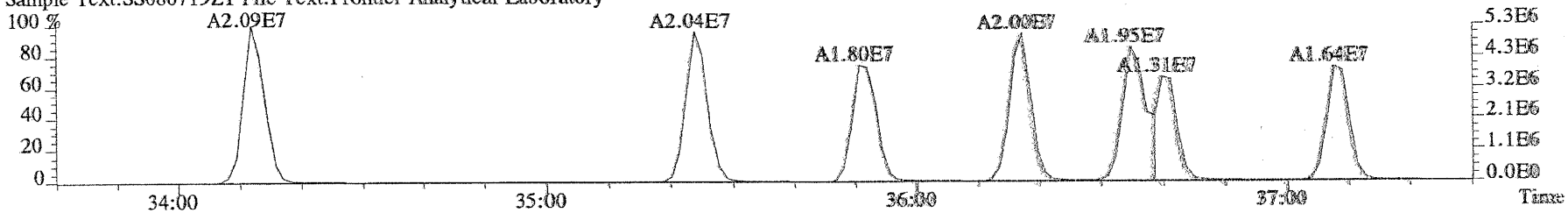
File:07AUG19Z #1-181 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



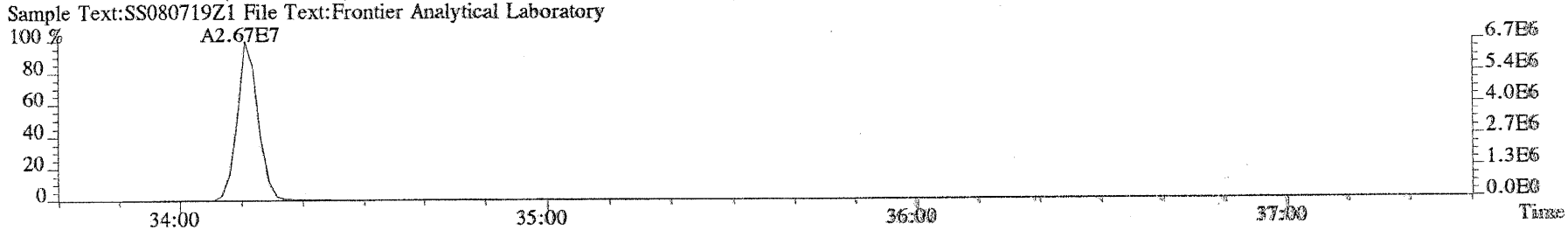
File:07AUG19Z #1-181 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



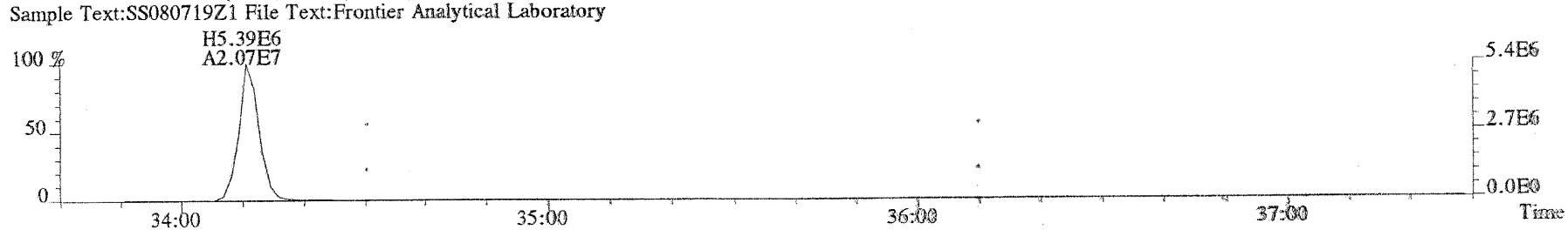
File:07AUG19Z #1-181 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



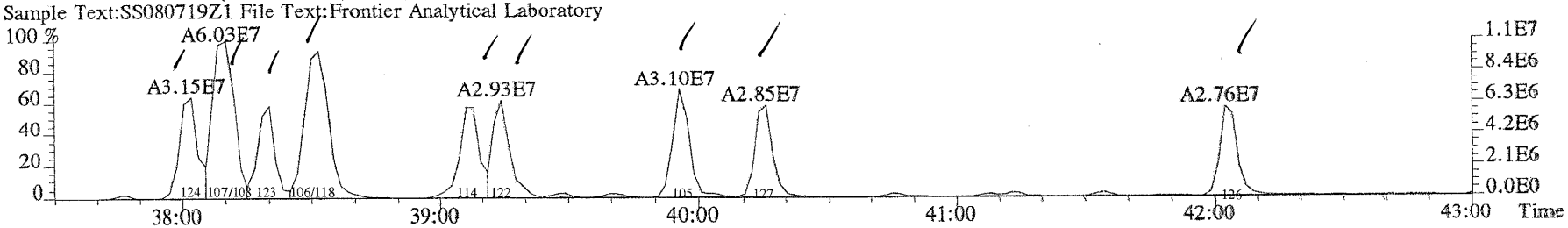
File:07AUG19Z #1-181 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



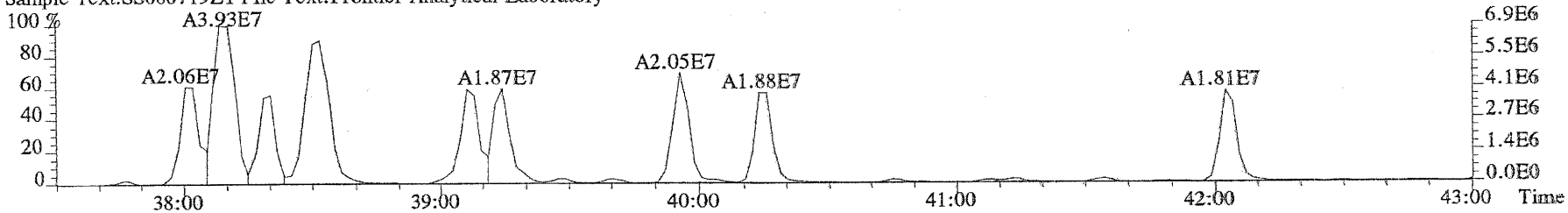
File:07AUG19Z #1-181 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



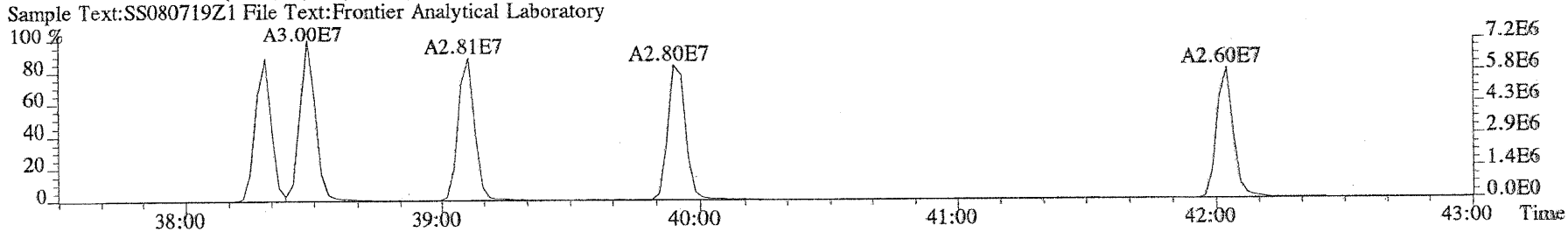
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



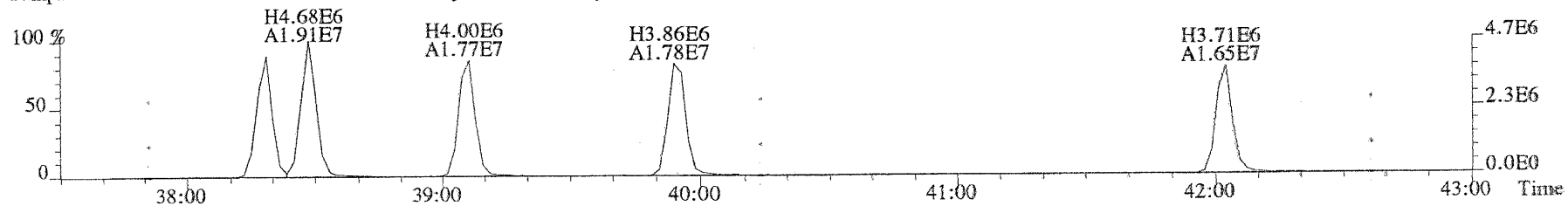
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



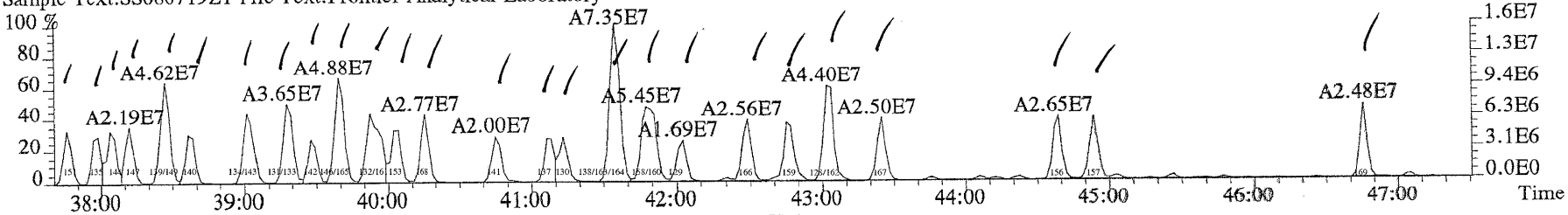
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



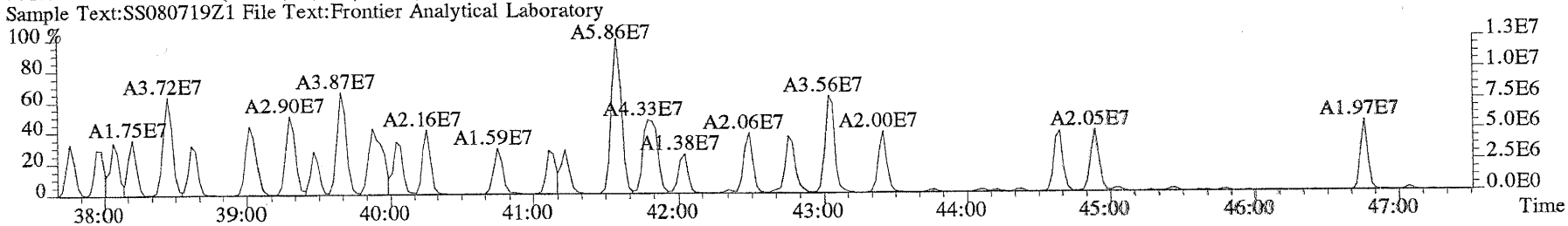
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



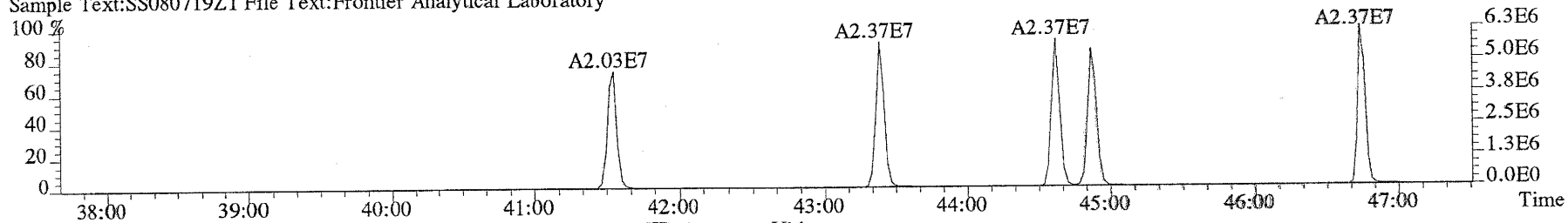
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



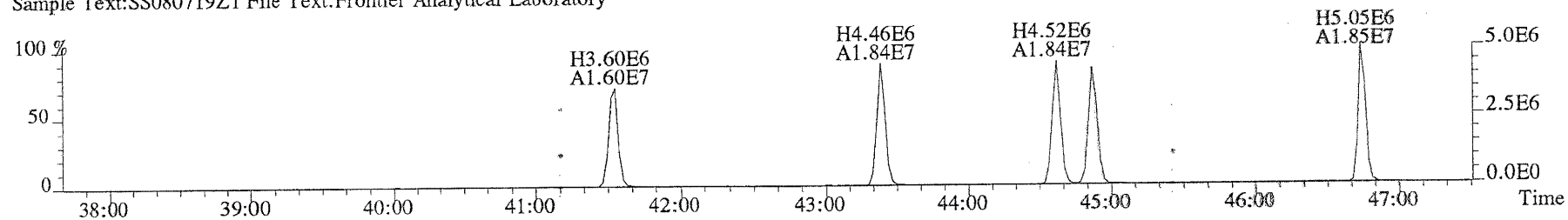
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



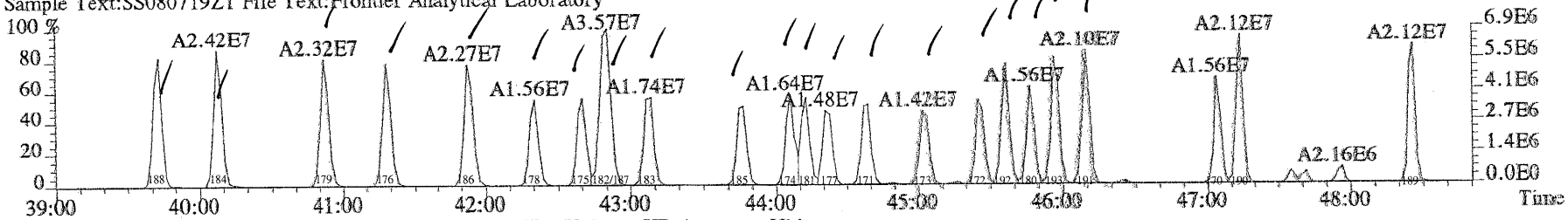
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



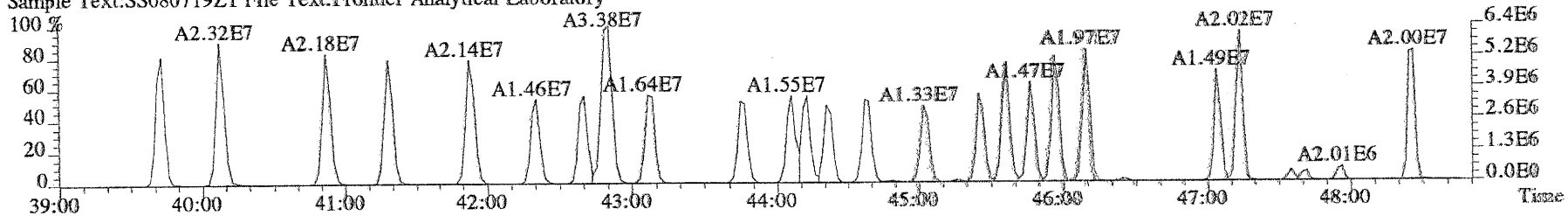
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



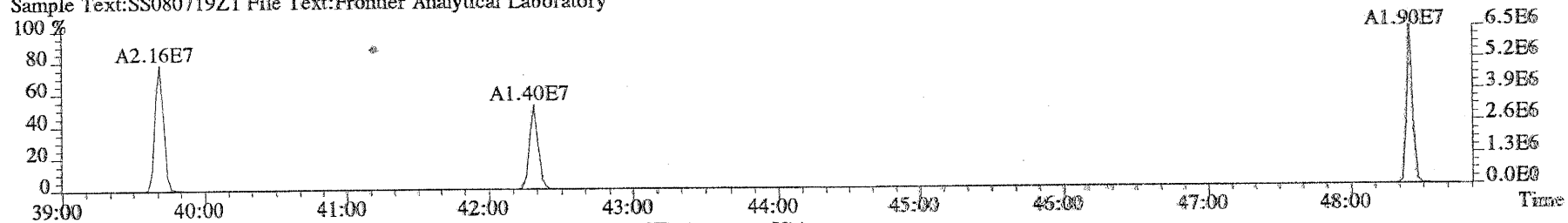
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



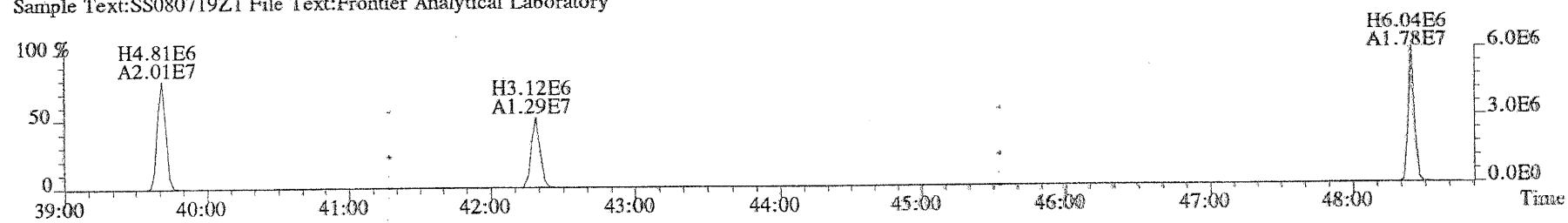
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



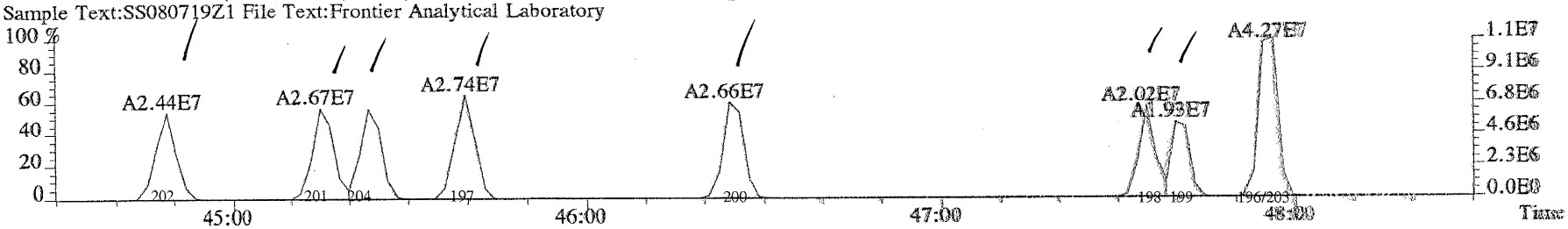
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



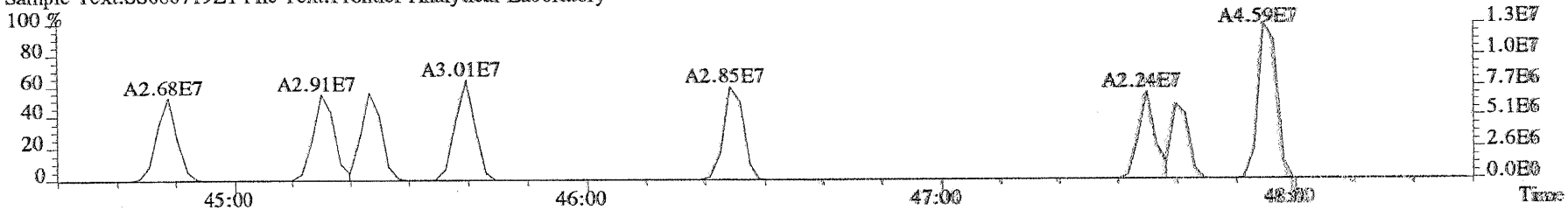
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



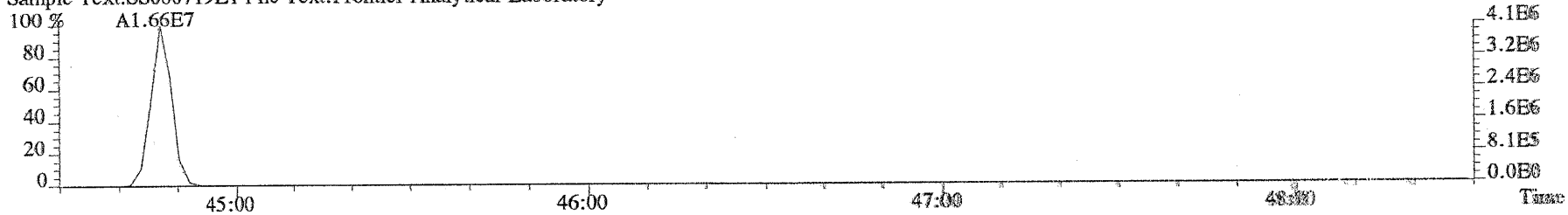
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



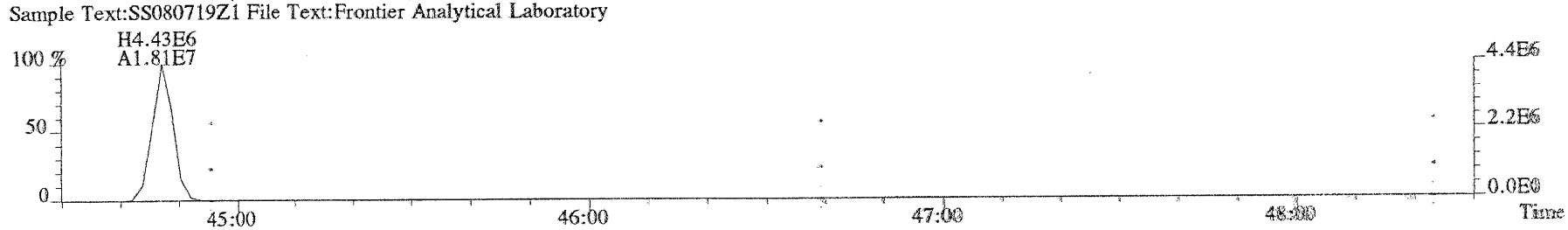
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



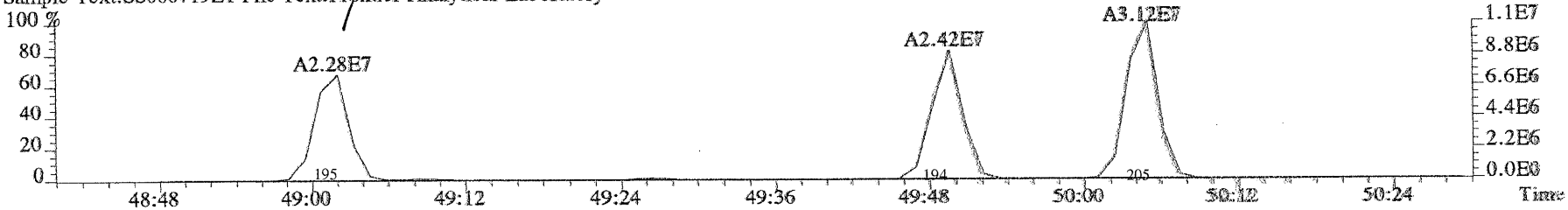
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



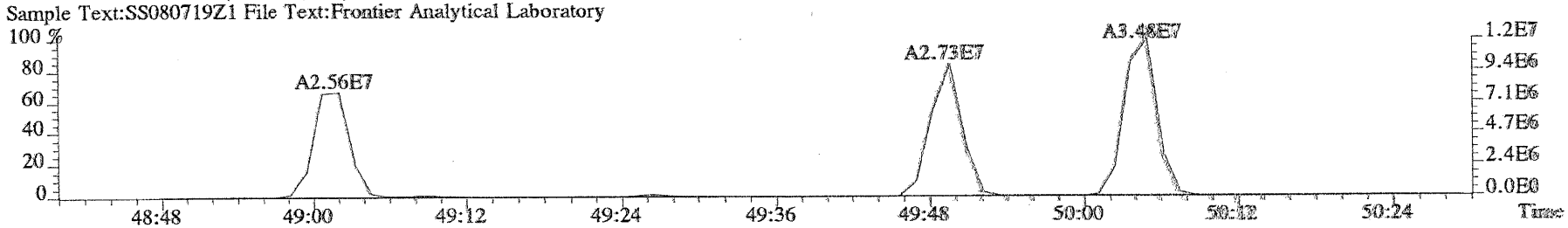
File:07AUG19Z #1-405 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



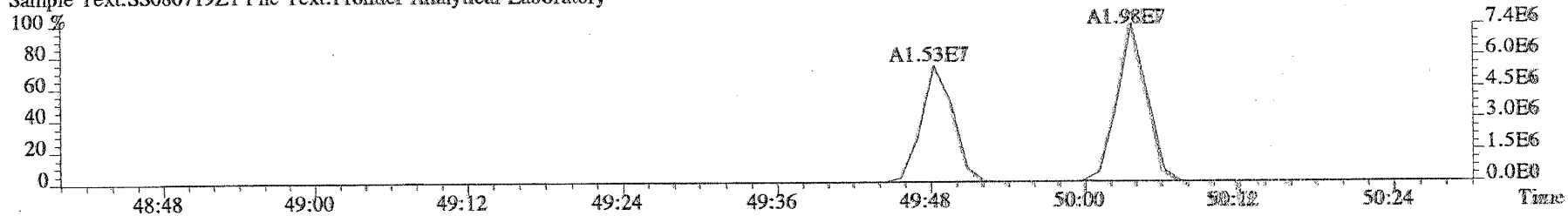
File:07AUG19Z #1-308 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



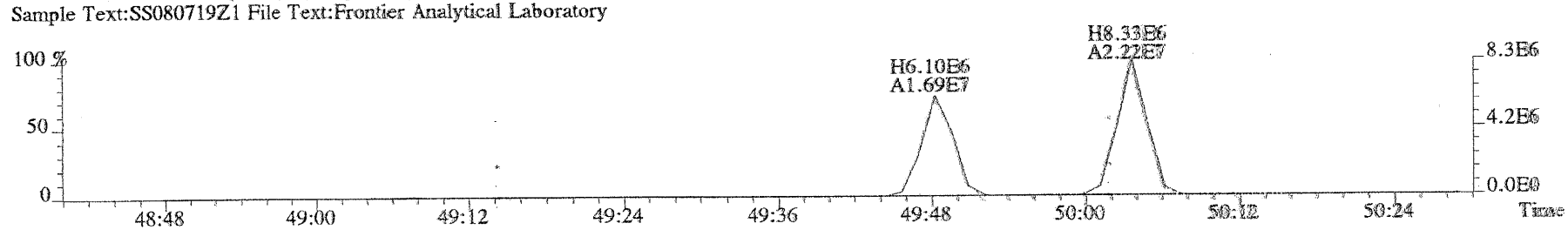
File:07AUG19Z #1-308 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



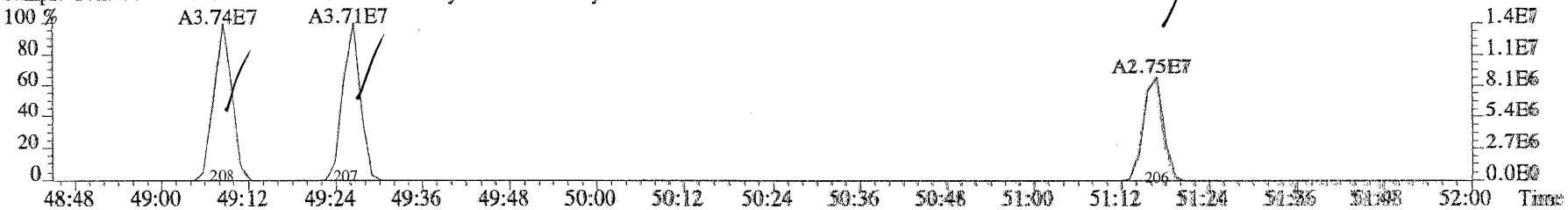
File:07AUG19Z #1-308 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



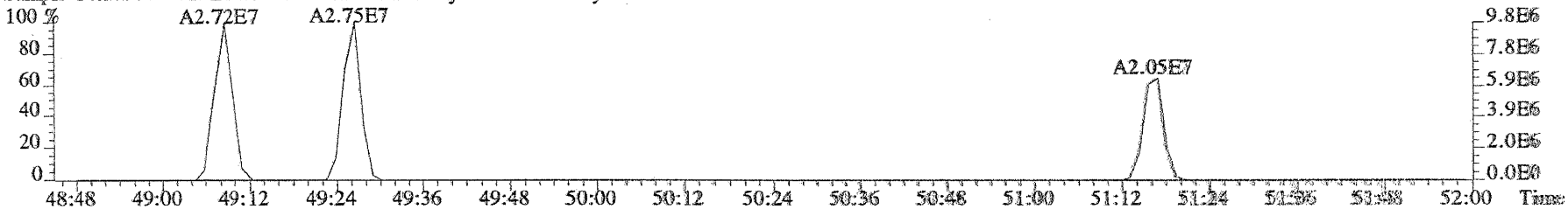
File:07AUG19Z #1-308 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



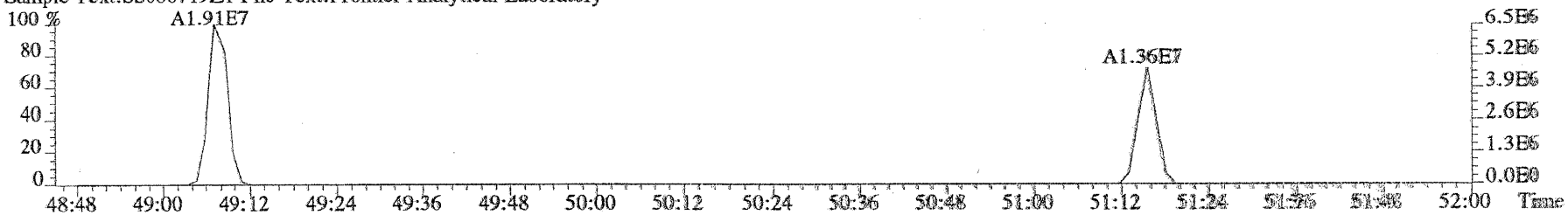
File:07AUG19Z #1-309 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



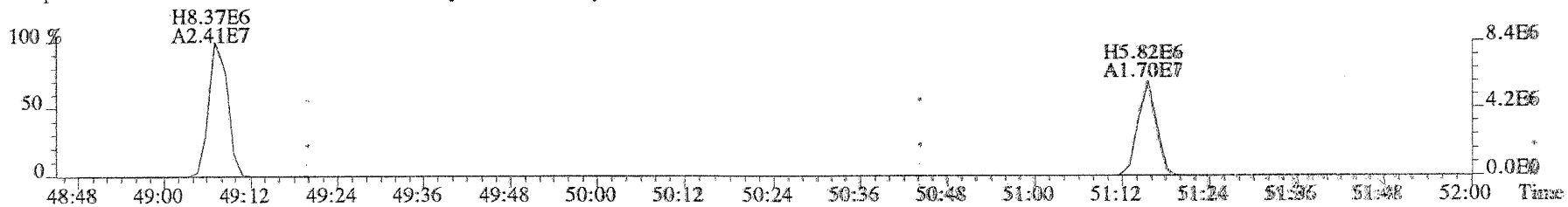
File:07AUG19Z #1-309 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



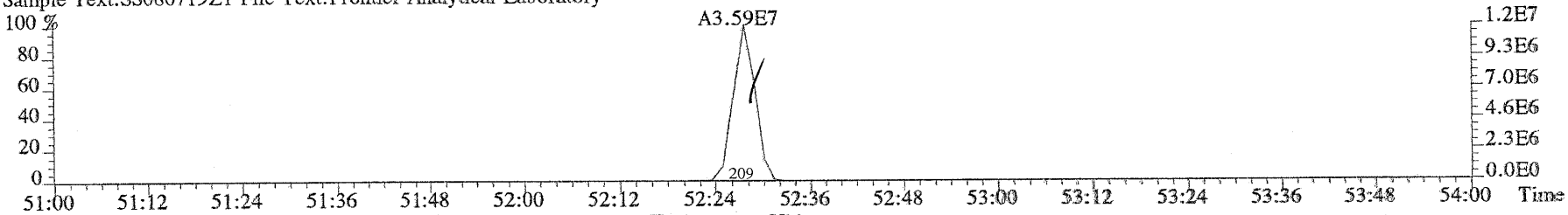
File:07AUG19Z #1-309 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



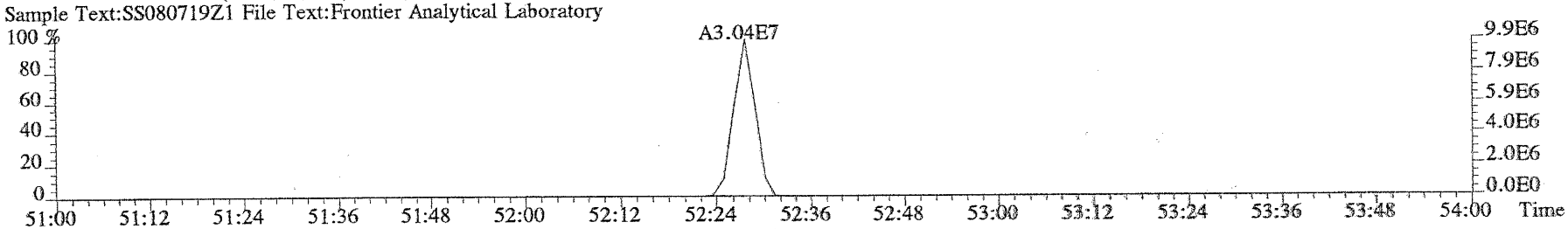
File:07AUG19Z #1-309 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



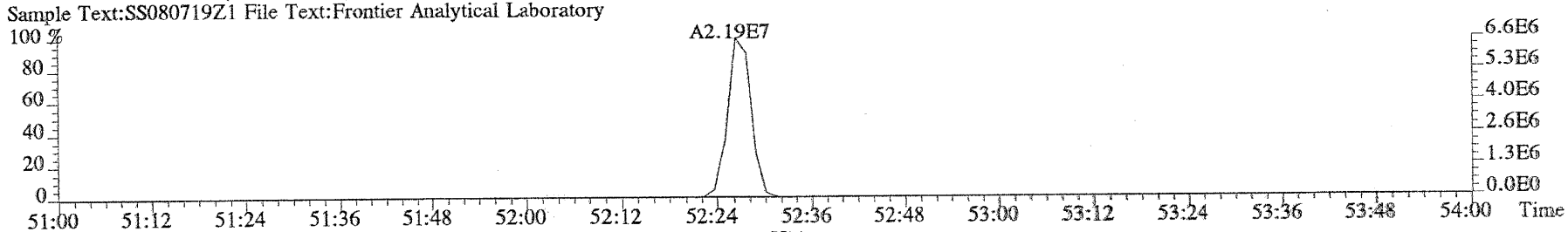
File:07AUG19Z #1-310 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



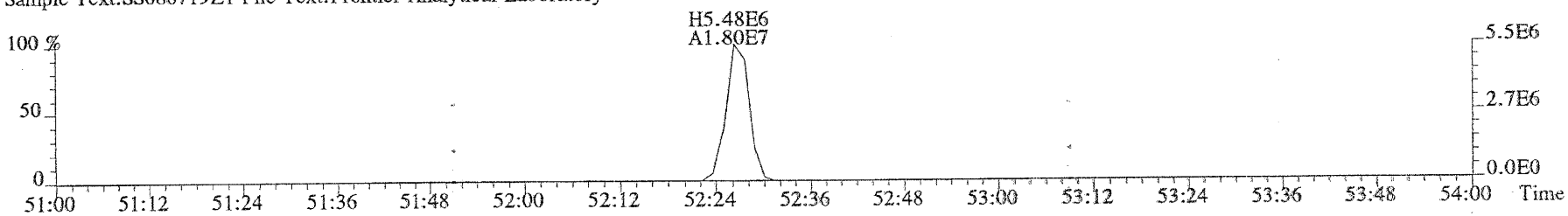
File:07AUG19Z #1-310 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-310 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



File:07AUG19Z #1-310 Acq: 7-AUG-2019 07:22:07 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080719Z1 File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 07AUG19Z Sam:15 Analysis Date: 7-AUG-19 20:01:51

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.11	2.66-3.60	y	48.8	37.5 - 62.5
PCB-3	M/M+2	3.04	2.66-3.60	y	50.0	37.5 - 62.5
PCB-4	M/M+2	1.46	1.33-1.79	y	51.8	37.5 - 62.5
PCB-15	M/M+2	1.58	1.33-1.79	y	51.0	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	52.0	37.5 - 62.5
PCB-37	M/M+2	1.00	0.88-1.20	y	51.6	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	53.1	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	53.9	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	53.5	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	51.0	37.5 - 62.5
PCB-105	M+2/M+4	1.56	1.32-1.78	y	52.5	37.5 - 62.5
PCB-114	M+2/M+4	1.56	1.32-1.78	y	54.2	37.5 - 62.5
PCB-118	M+2/M+4	1.57	1.32-1.78	y	52.5	37.5 - 62.5
PCB-123	M+2/M+4	1.54	1.32-1.78	y	52.7	37.5 - 62.5
PCB-126	M+2/M+4	1.56	1.32-1.78	y	53.6	37.5 - 62.5
PCB-155	M+2/M+4	1.37	1.05-1.43	y	48.6	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	50.1	37.5 - 62.5
PCB-157	M+2/M+4	1.31	1.05-1.43	y	50.9	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	49.9	37.5 - 62.5
PCB-169	M+2/M+4	1.24	1.05-1.43	y	51.3	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	51.3	37.5 - 62.5
PCB-189	M+2/M+4	1.09	0.89-1.21	y	54.3	37.5 - 62.5
PCB-202	M+2/M+4	0.92	0.76-1.02	y	50.9	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	52.3	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	51.7	37.5 - 62.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	51.6	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	51.6	37.5 - 62.5

Analyst: Date: 8/8/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 07AUG19Z Sam:15 Analysis Date: 7-AUG-19 20:01:51

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.18	2.66-3.60	y	93.2	50.0 - 145
13C-PCB-3	M/M+2	3.15	2.66-3.60	y	91.2	50.0 - 145
13C-PCB-4	M/M+2	1.62	1.33-1.79	y	104	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	92.4	50.0 - 145
13C-PCB-19	M/M+2	1.06	0.88-1.20	y	107	50.0 - 145
13C-PCB-37	M/M+2	1.05	0.88-1.20	y	82.8	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	106	50.0 - 145
13C-PCB-77	M/M+2	0.82	0.65-0.89	y	87.5	50.0 - 145
13C-PCB-81	M/M+2	0.82	0.65-0.89	y	89.5	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	106	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	93.9	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	92.6	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	95.1	50.0 - 145
13C-PCB-123	M+2/M+4	1.60	1.32-1.78	y	96.3	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	90.8	50.0 - 145
13C-PCB-155	M+2/M+4	1.27	1.05-1.43	y	107	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	95.9	50.0 - 145
13C-PCB-157	M+2/M+4	1.32	1.05-1.43	y	96.3	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	97.3	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	101	50.0 - 145
13C-PCB-188	M+2/M+4	1.05	0.89-1.21	y	103	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	110	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	107	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	97.2	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	96.4	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	98.2	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	101	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.03	0.88-1.20	y	101	65.0 - 135
13C-PCB-111	M+2/M+4	1.62	1.32-1.78	y	97.4	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	105	75.0 - 125

Analyst: [illegible] Date: 8/8/19

FAL ID: ST080719Z2 Filename: 07AUG19Z Sam:15 Acquired: 7-AUG-19 20:01:51 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 07AUG19Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.99e+07	3.11 y	14:31	1.19	48.8		2.50	-	-	*	-
13C-PCB-1	1.20e+08	3.18 y	14:31	1.02	93.2		2.50				93.2
PCB-3	6.56e+07	3.04 y	16:58	1.18	50.0		2.50	-	-	*	-
13C-PCB-3	1.12e+08	3.15 y	16:57	0.97	91.2		2.50				91.2
PCB-4	5.25e+07	1.46 y	18:12	1.04	51.8		2.50	-	-	*	-
13C-PCB-4	9.70e+07	1.62 y	18:10	0.74	104		2.50				104
PCB-15	5.90e+07	1.58 y	23:43	1.03	51.0		2.50	-	-	*	-
13C-PCB-15	1.12e+08	1.60 y	23:42	0.96	92.4		2.50				92.4
PCB-19	4.11e+07	1.06 y	22:04	1.11	52.0		2.50	-	-	*	-
13C-PCB-19	7.12e+07	1.06 y	22:03	0.53	107		2.50				107
13C-PCB-9	1.26e+08	1.61 y	19:51	-	163		2.50				
PCB-37	4.29e+07	1.00 y	30:22	1.04	51.6		2.50	-	-	*	-
13C-PCB-37	8.02e+07	1.05 y	30:21	1.57	82.8		2.50				82.8
PCB-54	5.58e+07	0.79 y	25:36	1.16	53.1		2.50	-	-	*	-
13C-PCB-54	9.02e+07	0.82 y	25:35	1.38	106		2.50				106
PCB-104	4.00e+07	1.59 y	30:02	1.08	51.0		2.50	-	-	*	-
13C-PCB-104	7.26e+07	1.60 y	30:01	1.11	106		2.50				106
13C-PCB-28	1.07e+08	1.03 y	26:40	1.71	101		2.50				101
13C-PCB-52	6.18e+07	0.80 y	28:55	-	162		2.50				
PCB-81	3.07e+07	0.78 y	36:07	1.06	53.5		2.50	-	-	*	-
13C-PCB-81	5.40e+07	0.82 y	36:06	1.50	89.5		2.50				89.5
PCB-77	3.04e+07	0.79 y	36:41	1.02	53.9		2.50	-	-	*	-
13C-PCB-77	5.51e+07	0.82 y	36:40	1.57	87.5		2.50				87.5
PCB-155	3.02e+07	1.37 y	34:11	1.02	48.6		2.50	-	-	*	-
13C-PCB-155	6.08e+07	1.27 y	34:09	1.42	107		2.50				107
13C-PCB-111	5.05e+07	1.62 y	36:13	1.29	97.4		2.50				97.4
13C-PCB-101	4.02e+07	1.64 y	34:36	-	122		2.50				
PCB-123	2.71e+07	1.54 y	38:17	1.03	52.7		2.50	-	-	*	-
13C-PCB-123	4.97e+07	1.60 y	38:17	1.40	96.3		2.50				96.3
PCB-118	2.88e+07	1.57 y	38:28	1.02	52.5		2.50	-	-	*	-
13C-PCB-118	5.40e+07	1.58 y	38:27	1.53	95.1		2.50				95.1
PCB-114	2.72e+07	1.56 y	39:04	1.01	54.2		2.50	-	-	*	-
13C-PCB-114	4.96e+07	1.61 y	39:04	1.45	92.6		2.50				92.6
PCB-105	2.67e+07	1.56 y	39:54	1.02	52.5		2.50	-	-	*	-
13C-PCB-105	5.00e+07	1.60 y	39:52	1.44	93.9		2.50				93.9
PCB-126	2.51e+07	1.56 y	42:01	1.02	53.6		2.50	-	-	*	-
13C-PCB-126	4.60e+07	1.60 y	42:01	1.37	90.8		2.50				90.8
PCB-167	2.46e+07	1.26 y	43:23	1.07	49.9		2.50	-	-	*	-
13C-PCB-167	4.62e+07	1.28 y	43:21	1.28	97.3		2.50				97.3
PCB-156	2.41e+07	1.26 y	44:37	1.10	50.1		2.50	-	-	*	-
13C-PCB-156	4.39e+07	1.29 y	44:35	1.24	95.9		2.50				95.9
PCB-157	2.57e+07	1.31 y	44:52	1.06	50.9		2.50	-	-	*	-
13C-PCB-157	4.76e+07	1.32 y	44:50	1.34	96.3		2.50				96.3
PCB-169	2.52e+07	1.24 y	46:44	1.06	51.3		2.50	-	-	*	-
13C-PCB-169	4.62e+07	1.29 y	46:42	1.24	101		2.50				101
PCB-188	2.56e+07	1.05 y	39:39	1.02	51.3		2.50	-	-	*	-
13C-PCB-188	4.91e+07	1.05 y	39:39	1.29	103		2.50				103
PCB-189	2.35e+07	1.09 y	48:24	0.99	54.3		2.50	-	-	*	-
13C-PCB-189	4.36e+07	1.07 y	48:22	1.07	110		2.50				110
PCB-202	2.16e+07	0.92 y	44:47	0.99	50.9		2.50	-	-	*	-
13C-PCB-202	4.31e+07	0.90 y	44:45	1.09	107		2.50				107
13C-PCB-178	3.14e+07	1.05 y	42:17	0.81	105		2.50				105
13C-PCB-138	3.70e+07	1.26 y	41:29	-	115		2.50				

FAL ID: ST080719Z2 Filename: 07AUG19Z Sam:15 Acquired: 7-AUG-19 20:01:51 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 07AUG19Z GC Column: DB1MS Amount: 1.000

PCB-205	2.88e+07	0.89	y	50:04	1.02	52.3	2.50	-	-	*	-
13C-PCB-205	5.38e+07	0.90	y	50:02	1.40	97.2	2.50				97.2
PCB-208	2.66e+07	1.34	y	49:07	0.98	51.6	2.50	-	-	*	-
13C-PCB-208	5.29e+07	0.81	y	49:06	1.36	98.2	2.50				98.2
PCB-206	1.97e+07	1.35	y	51:15	0.99	51.7	2.50	-	-	*	-
13C-PCB-206	3.83e+07	0.80	y	51:14	1.01	96.4	2.50				96.4
PCB-209	2.73e+07	1.18	y	52:26	1.09	51.6	2.50	-	-	*	-
13C-PCB-209	4.85e+07	1.20	y	52:25	1.21	101	2.50				101
13C-PCB-194	3.95e+07	0.90	y	49:47	-	129	2.50				

Analyst: Date: 8/8/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:07AUG19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

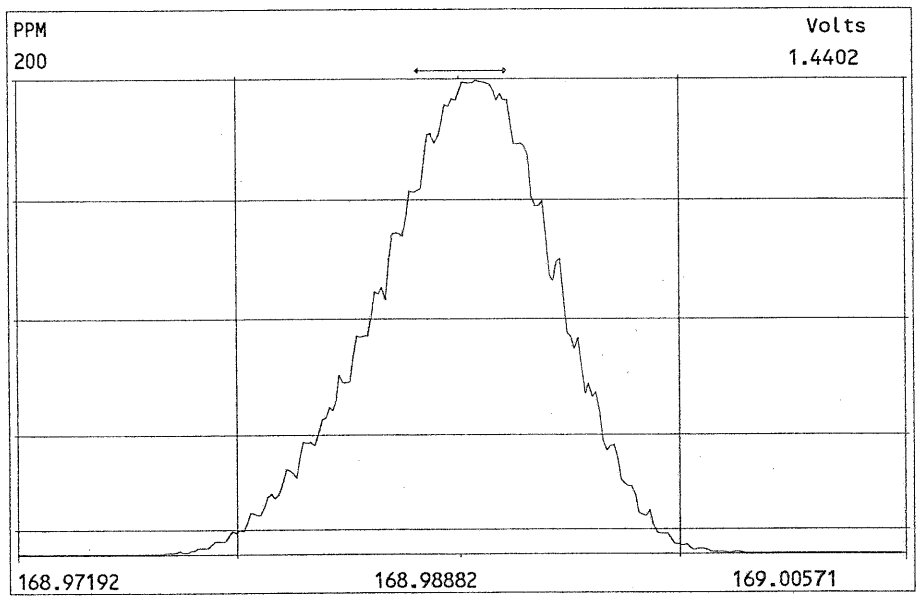
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
07AUG19Z	1	ST080719Z1	1668 CS3 R181204D	7-AUG-19 06:23:47	ST080719Z1	ST080719Z2	BS
07AUG19Z	2	SS080719Z1	Daily 209 190408A	7-AUG-19 07:22:07	ST080719Z1	ST080719Z2	BS
07AUG19Z	3	04998-001-0001-OPR	OPR	7-AUG-19 08:20:28	ST080719Z1	ST080719Z2	BS
07AUG19Z	4	04998-001-0001-MB	Method Blank	7-AUG-19 09:18:49	ST080719Z1	ST080719Z2	BS
07AUG19Z	5	12513-002-0001-SA	LDW-Y2-SC-ENR+AC-CB-SSWI	7-AUG-19 10:17:10	ST080719Z1	ST080719Z2	BS
07AUG19Z	6	12513-003-0001-SA	LDW-Y2-SC-ENR+AC-CC-SSWI	7-AUG-19 11:15:31	ST080719Z1	ST080719Z2	BS
07AUG19Z	7	12513-005-0001-SA	LDW-Y2-SC-ENR+AC-CE-SSWI	7-AUG-19 12:13:52	ST080719Z1	ST080719Z2	BS
07AUG19Z	8	12513-006-0001-SA	LDW-Y2-SC-ENR-CA-SSWI	7-AUG-19 13:12:13	ST080719Z1	ST080719Z2	BS
07AUG19Z	9	12513-007-0001-SA	LDW-Y2-SC-ENR-CB-SSWI	7-AUG-19 14:10:34	ST080719Z1	ST080719Z2	BS
07AUG19Z	10	12513-008-0001-SA	LDW-Y2-SC-ENR-CC-SSWI	7-AUG-19 15:09:14	ST080719Z1	ST080719Z2	BS
07AUG19Z	11	12513-009-0001-SA	LDW-Y2-SC-ENR-CD-SSWI	7-AUG-19 16:08:01	ST080719Z1	ST080719Z2	BS
07AUG19Z	12	12513-010-0001-SA	LDW-Y2-SC-ENR-CE-SSWI	7-AUG-19 17:06:22	ST080719Z1	ST080719Z2	BS
07AUG19Z	13	12513-011-0001-SA	LDW-Y2-SC-ENR+AC-CA/AC-CD-SS	7-AUG-19 18:05:08	ST080719Z1	ST080719Z2	BS
07AUG19Z	14	SB080719Z1	Solvent Blank	7-AUG-19 19:03:29	ST080719Z1	ST080719Z2	BS
07AUG19Z	15	ST080719Z2	1668 CS3 R181204D	7-AUG-19 20:01:51	ST080719Z1	ST080719Z2	BS

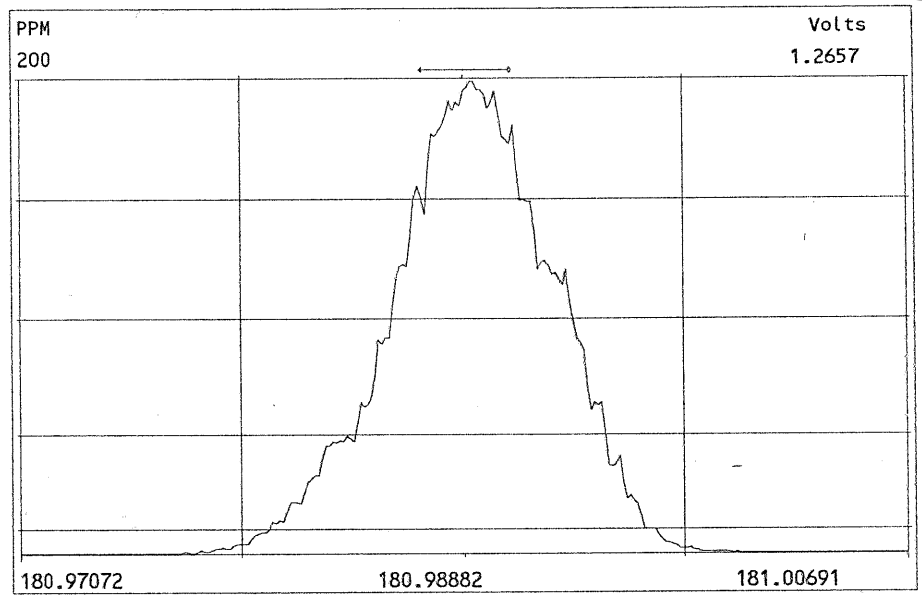
8/8/19

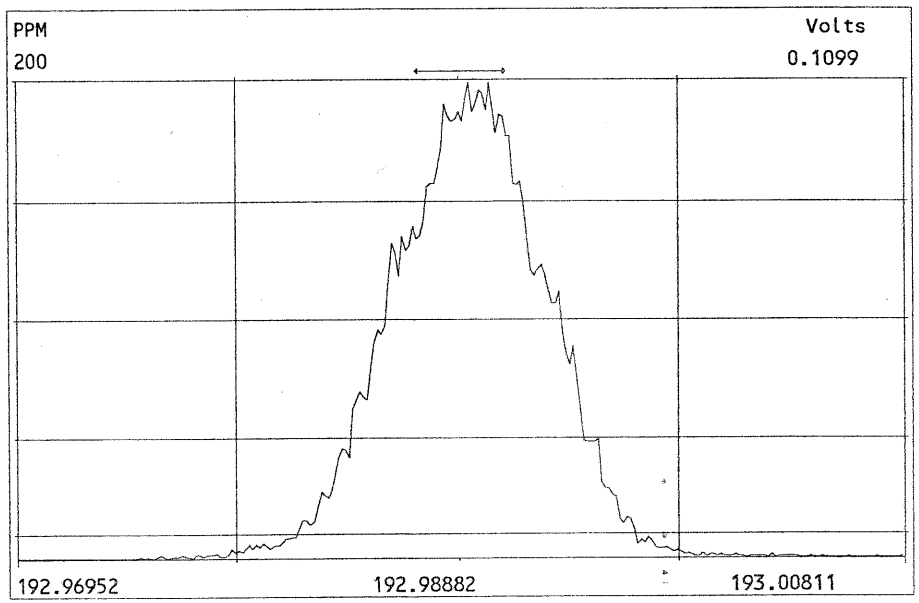
Data Backed Up:_____

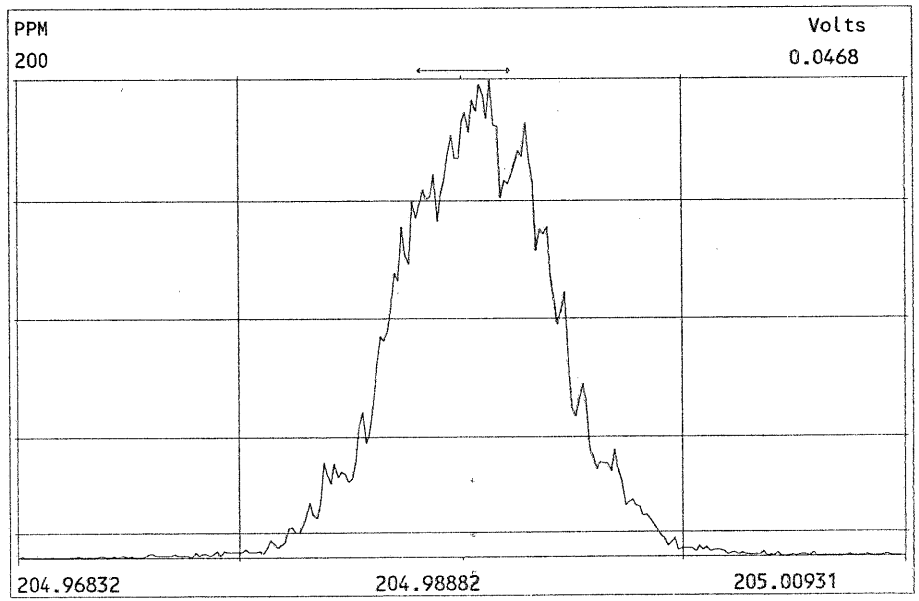
Date:_____

Peak Locate Examination: 7-AUG-2019:06:21 File:07AUG19Z
Experiment:1668PCB Function:1 Reference:PFK

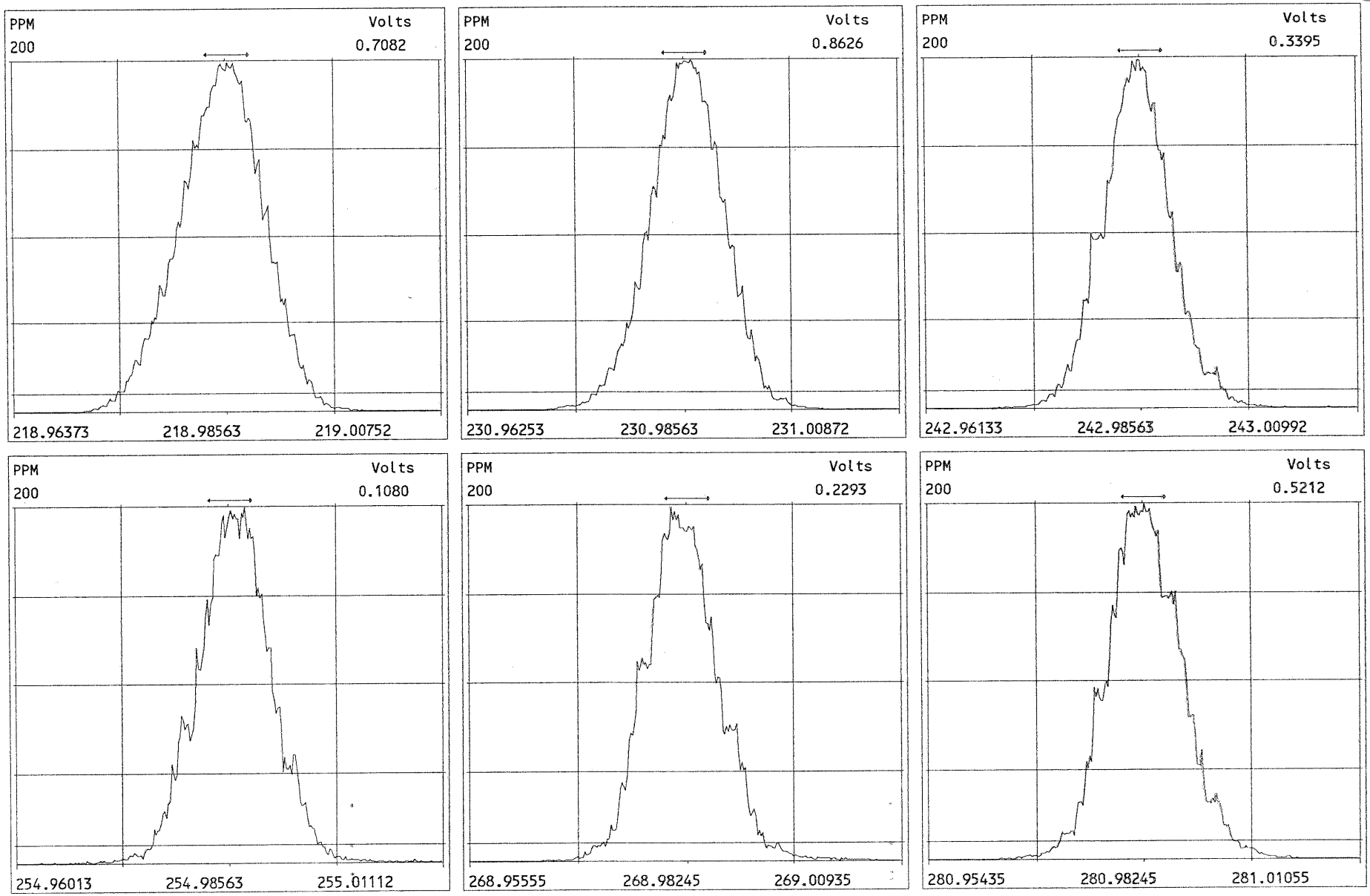




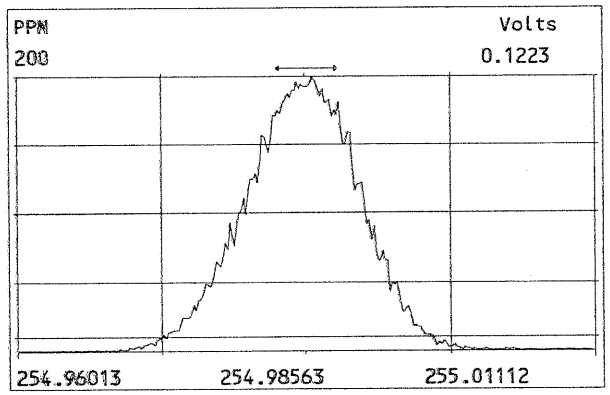


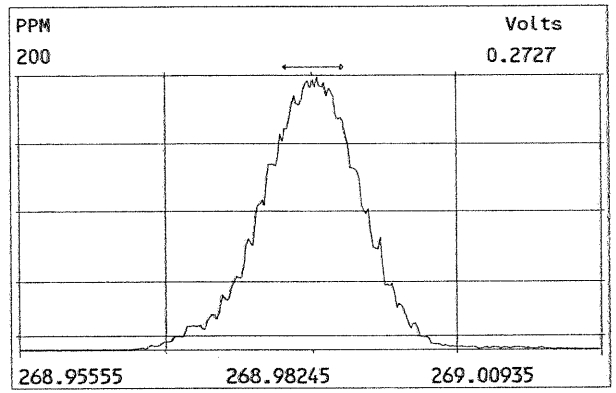


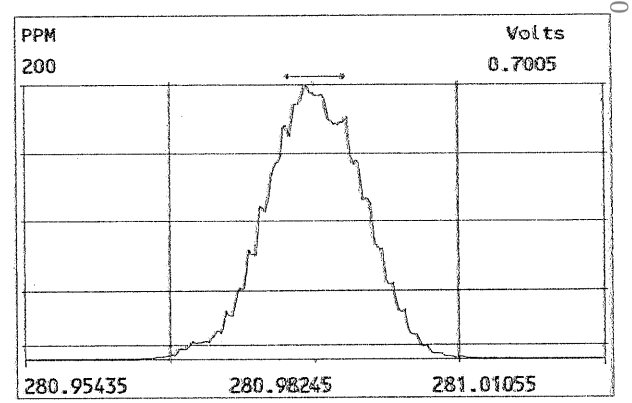
Peak Locate Examination: 7-AUG-2019:06:21 File:07AUG19Z
Experiment:1668PCB Function:2 Reference:PFK

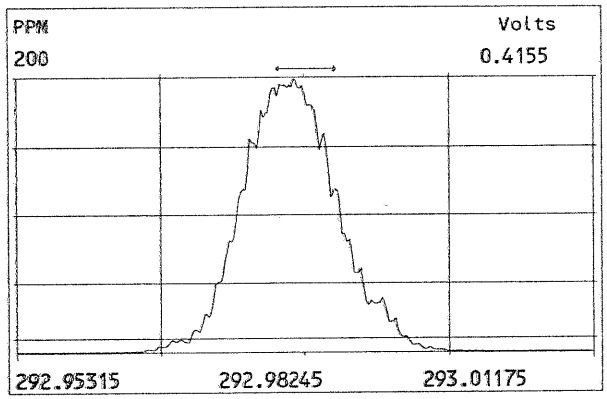


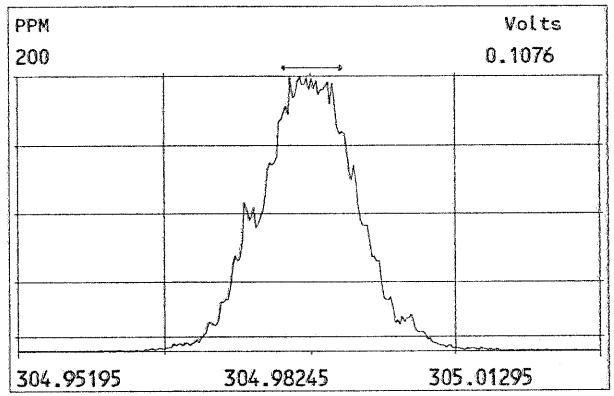
Peak Locate Examination: 7-AUG-2019:06:22 File:07AUG19Z
Experiment:1668PCB Function:3 Reference:PFK

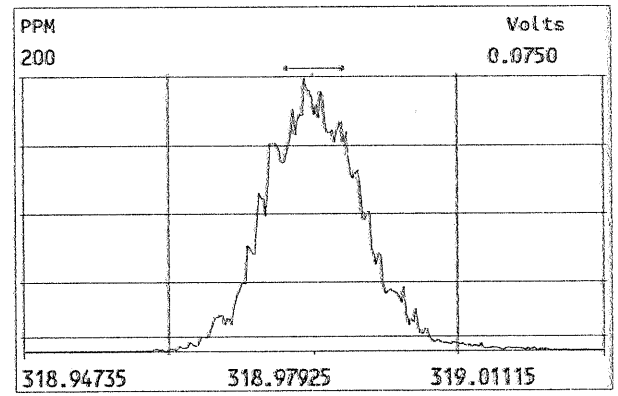


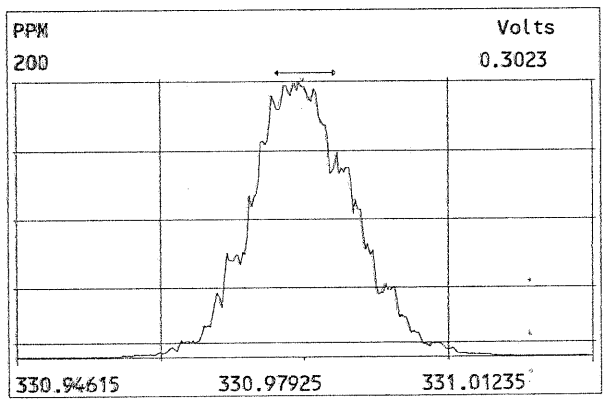


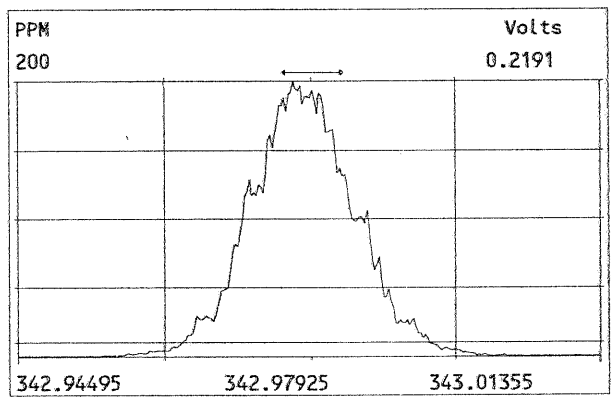




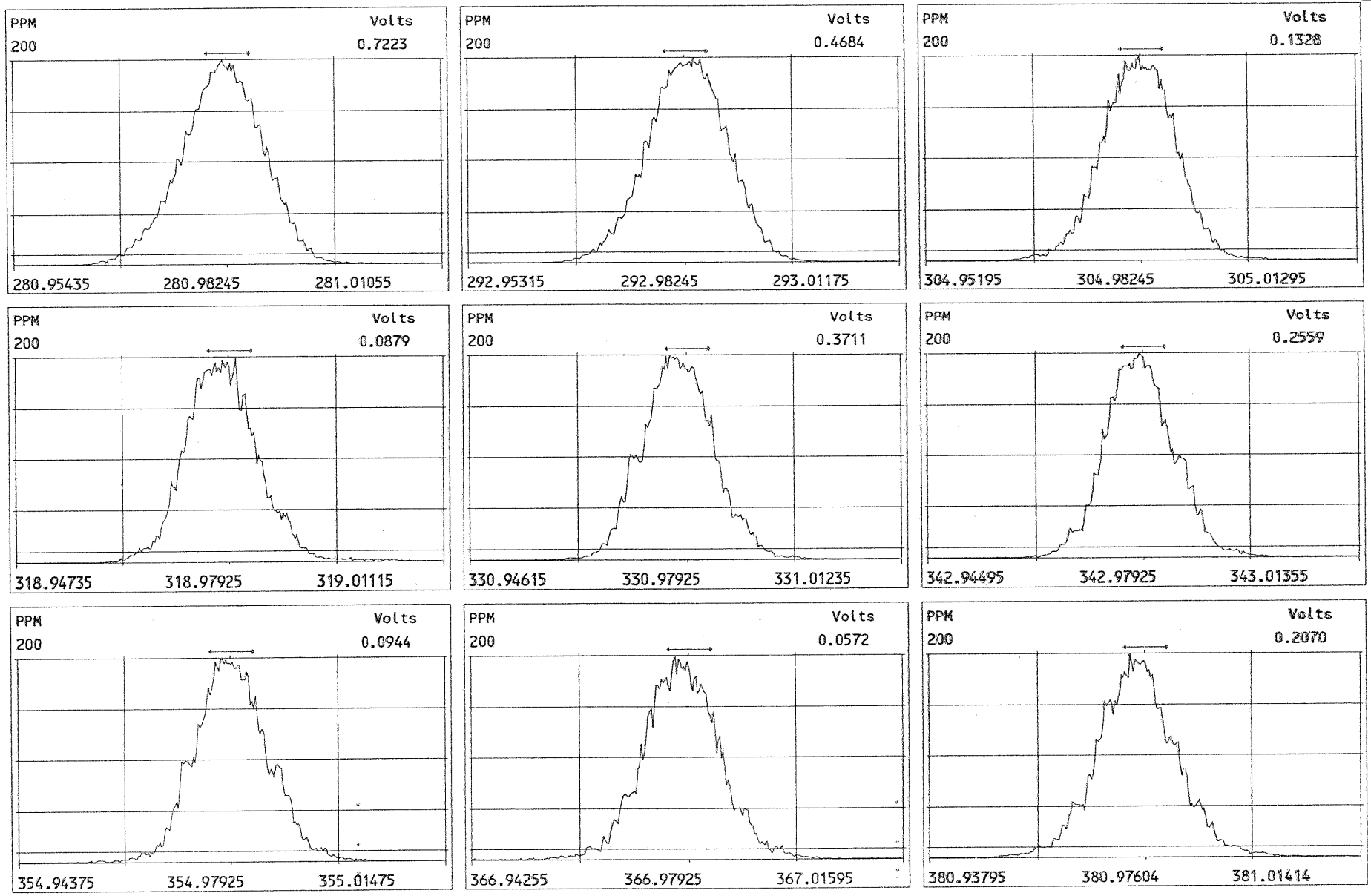




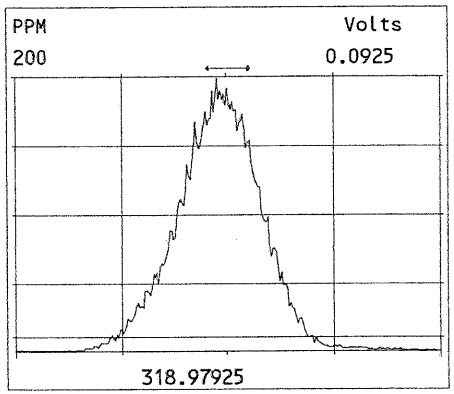


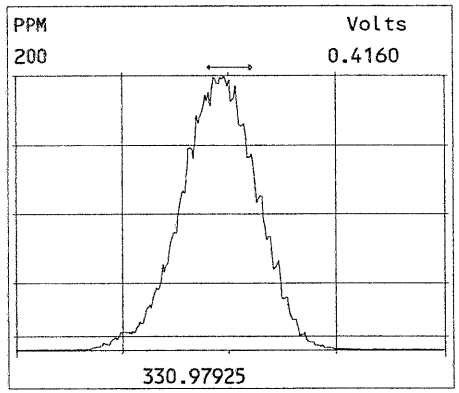


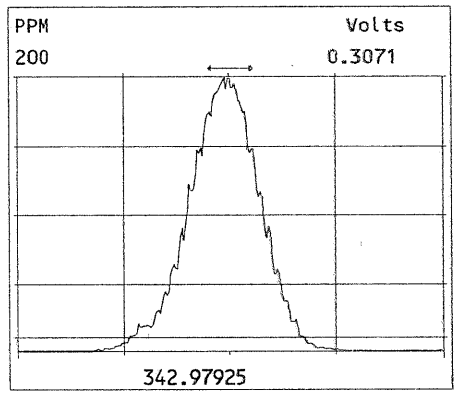
Peak Locate Examination: 7-AUG-2019:06:22 File:07AUG19Z
Experiment:1668PCB Function:4 Reference:PFK

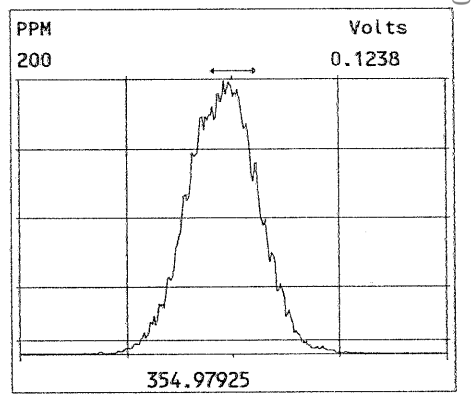


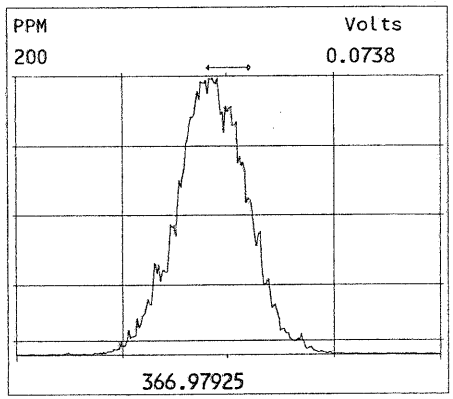
Peak Locate Examination: 7-AUG-2019:06:22 File:07AUG19Z
Experiment:1668PCB Function:5 Reference:PFK

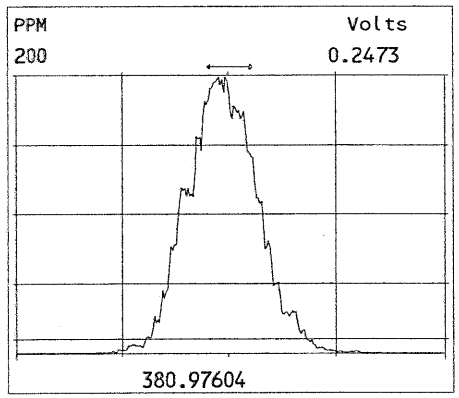


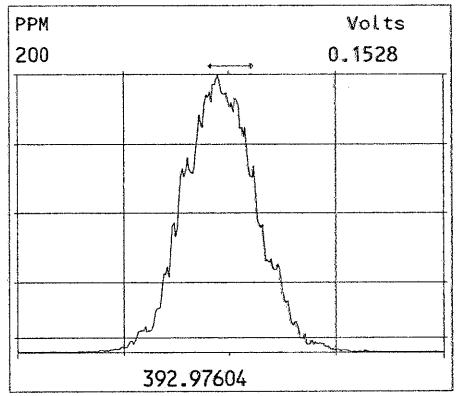


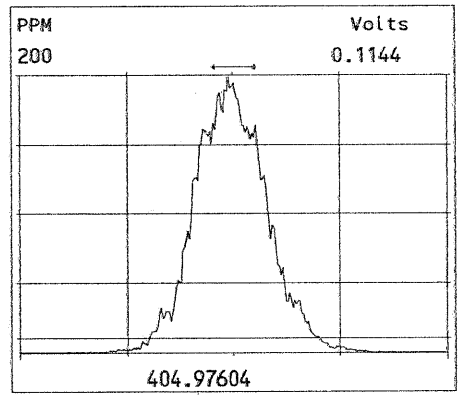


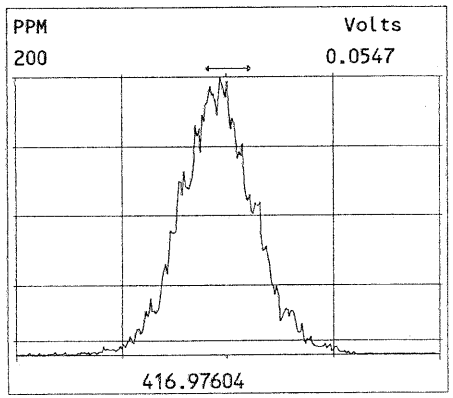


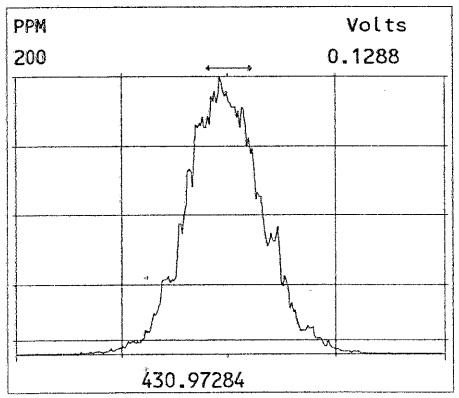


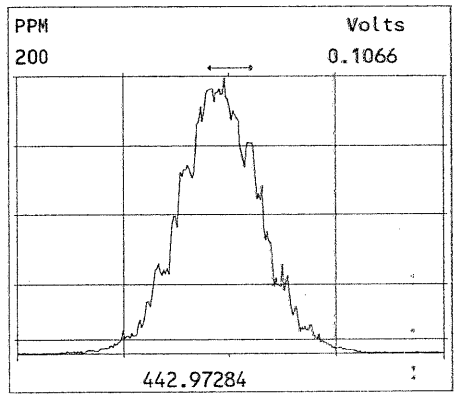




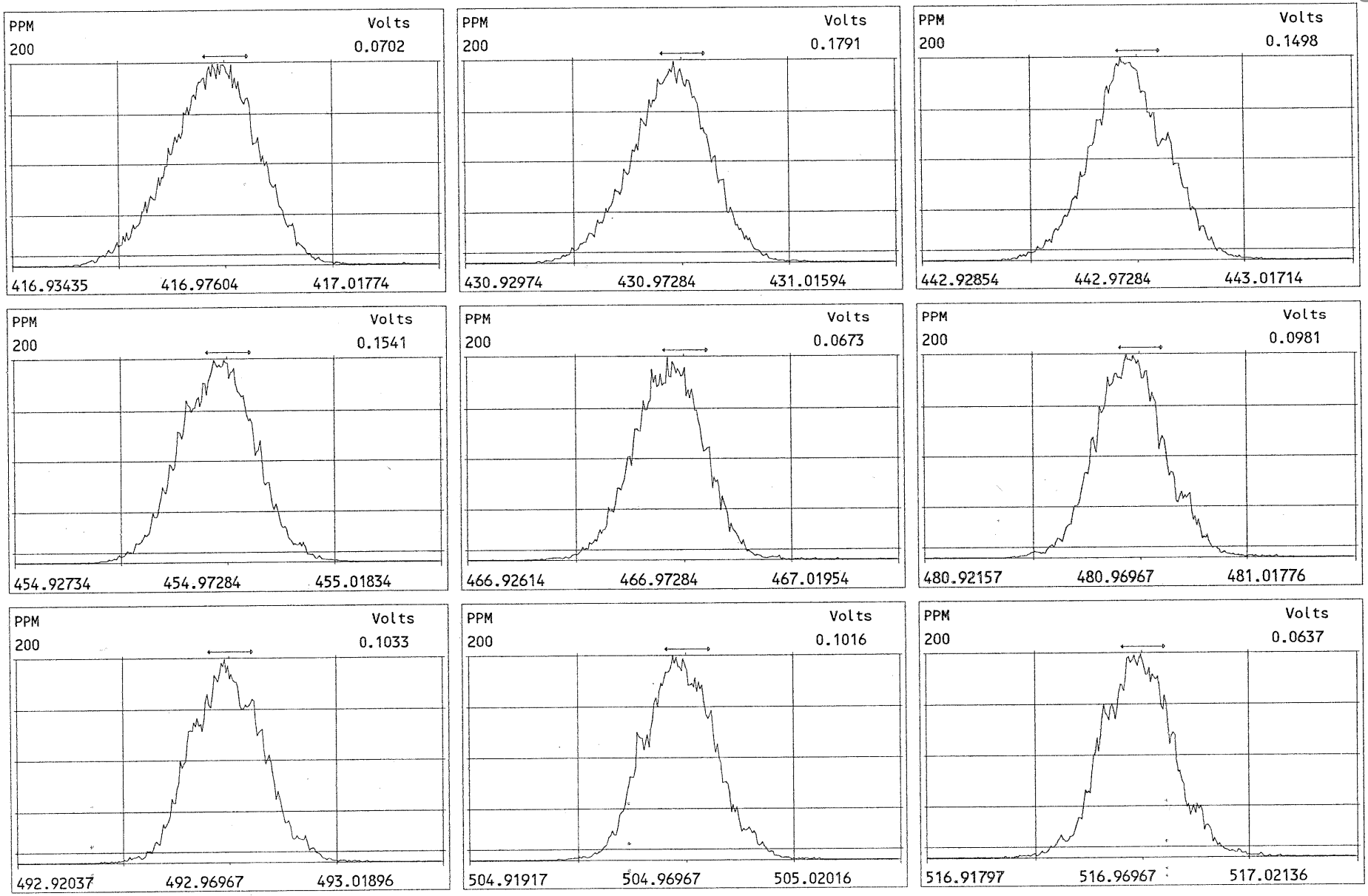




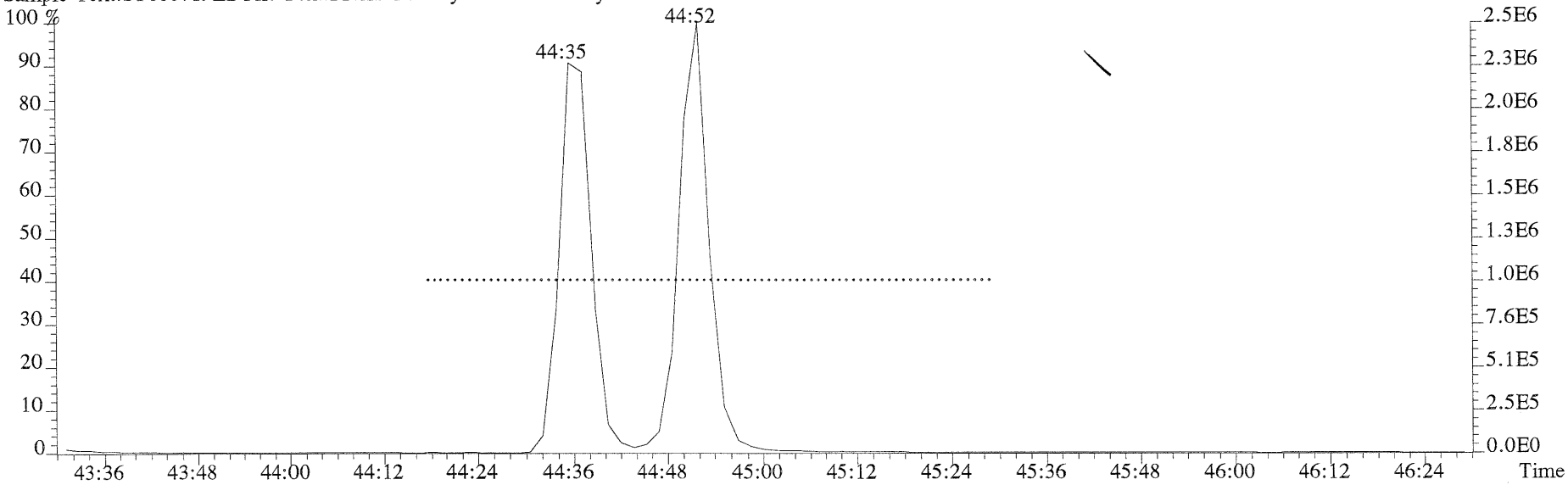




Peak Locate Examination: 7-AUG-2019:06:23 File:07AUG19Z
Experiment:1668PCB Function:6 Reference:PFK



File:07AUG19Z #1-405 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:5 Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



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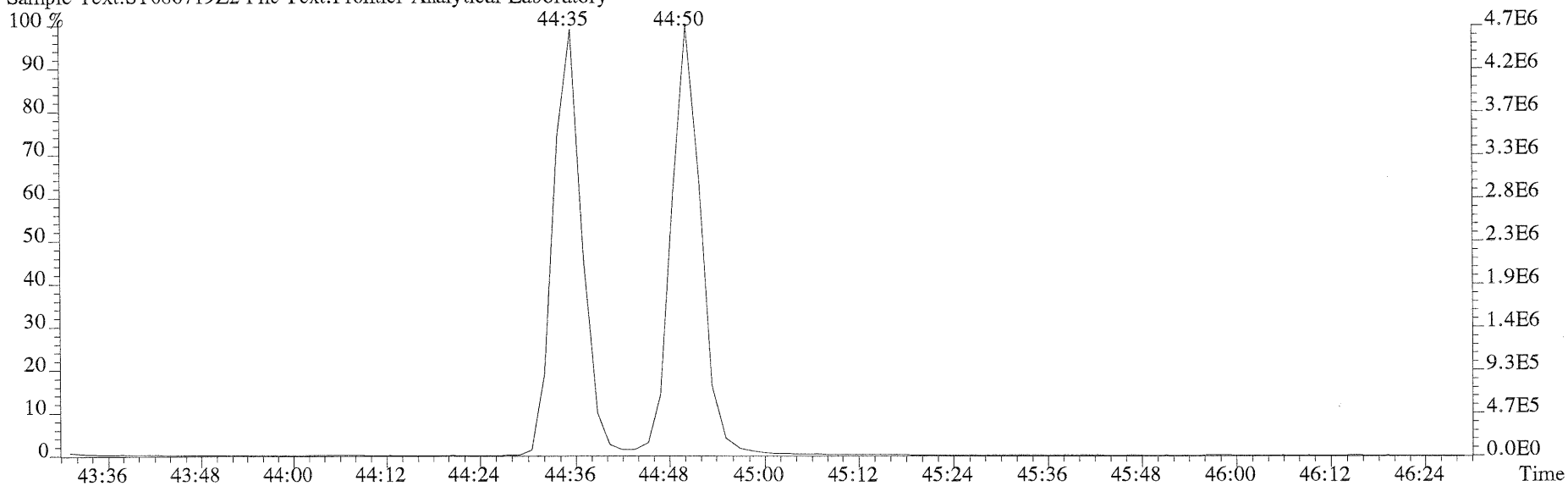

File:07AUG19Z #1-783 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
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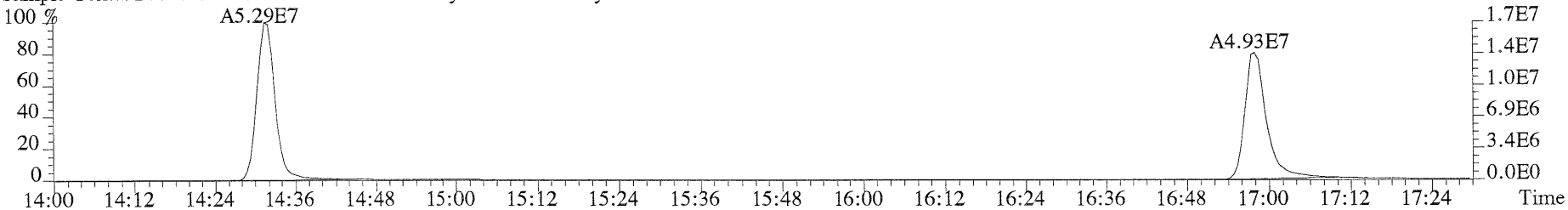
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



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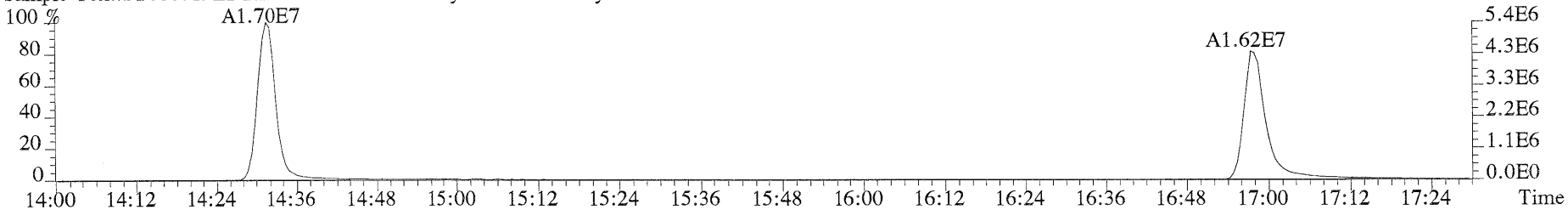

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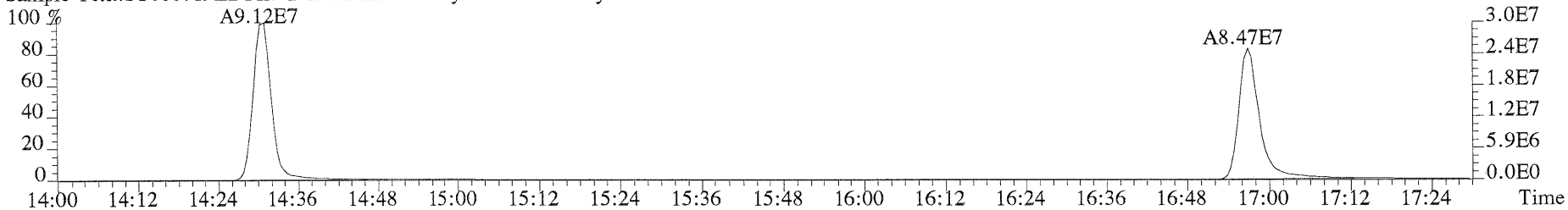

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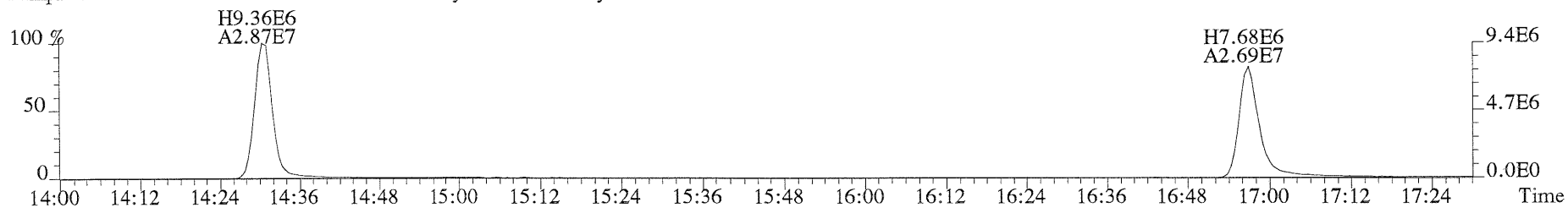
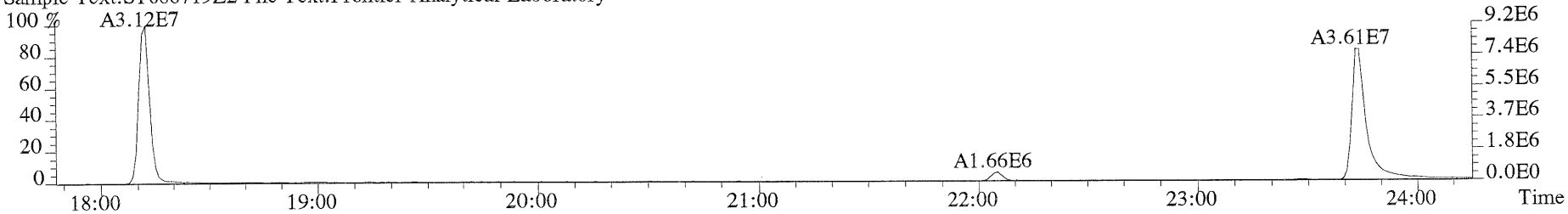
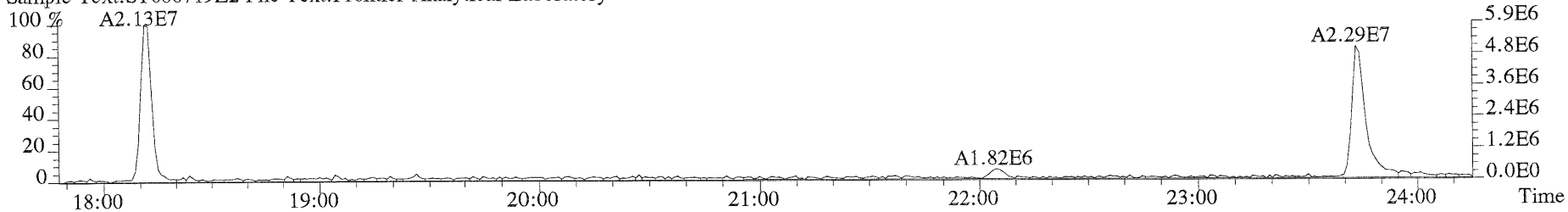
202.0766 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



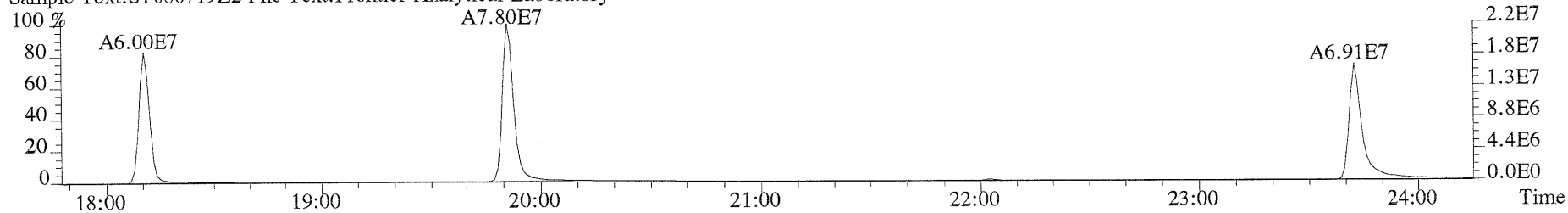
File:07AUG19Z #1-520 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



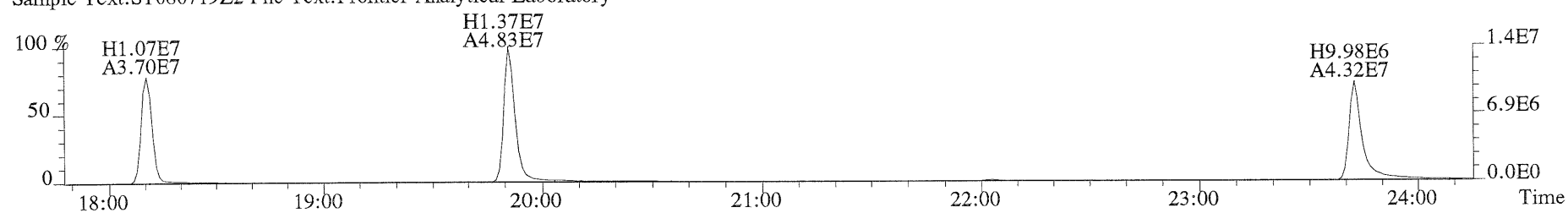
File:07AUG19Z #1-520 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



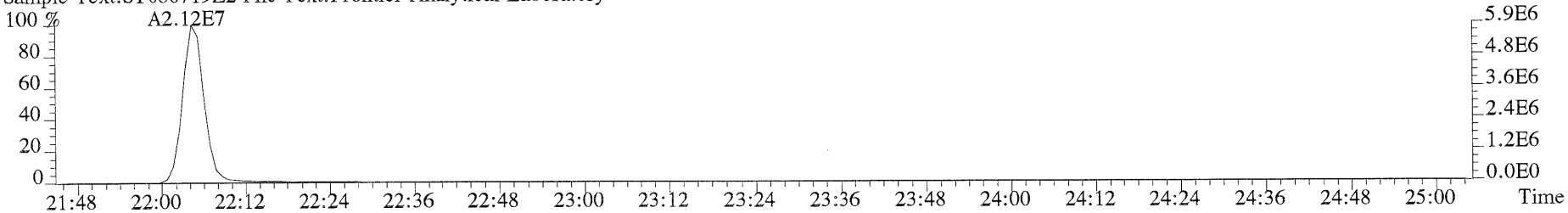
File:07AUG19Z #1-520 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



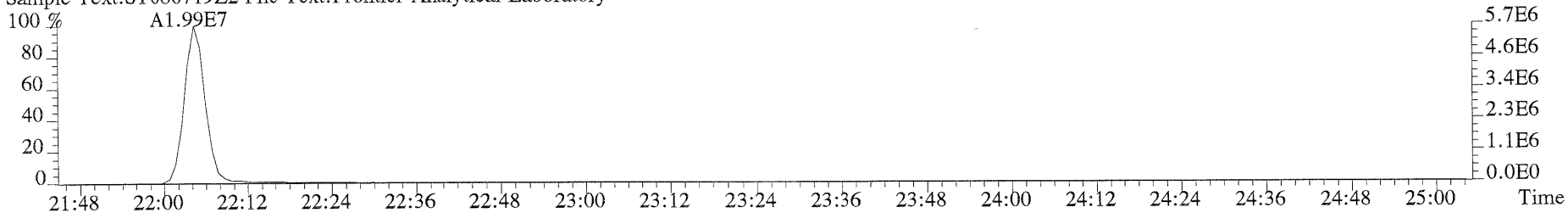
File:07AUG19Z #1-520 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



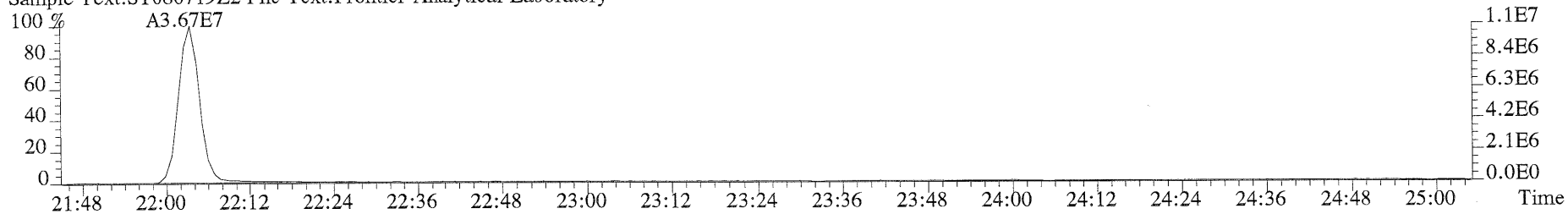
File:07AUG19Z #1-520 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



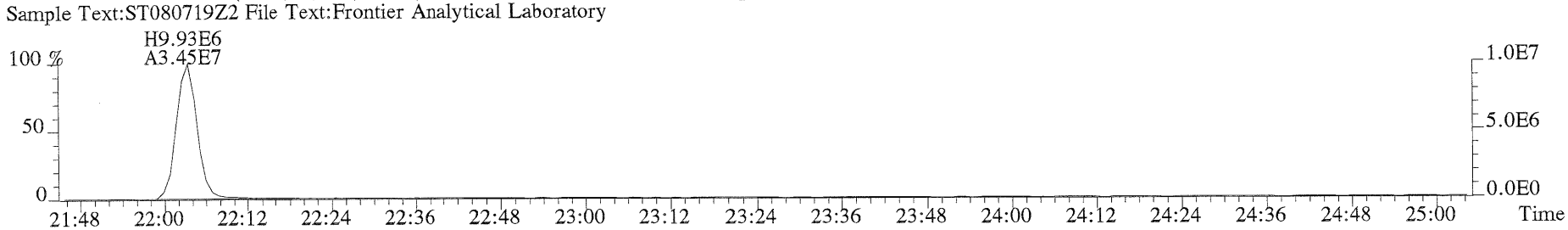
File:07AUG19Z #1-520 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



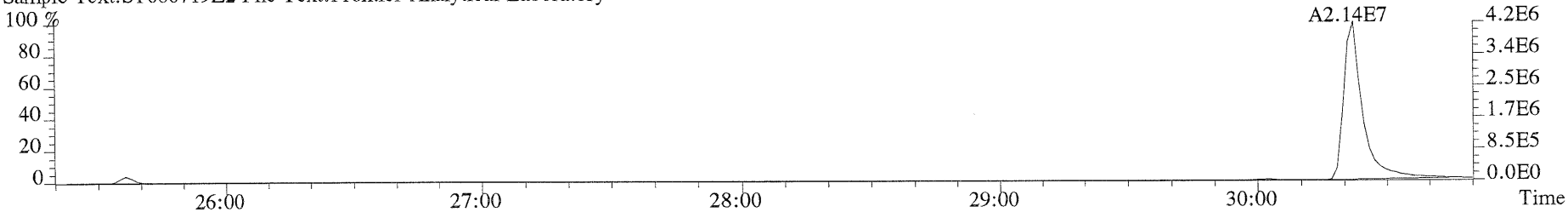
File:07AUG19Z #1-520 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



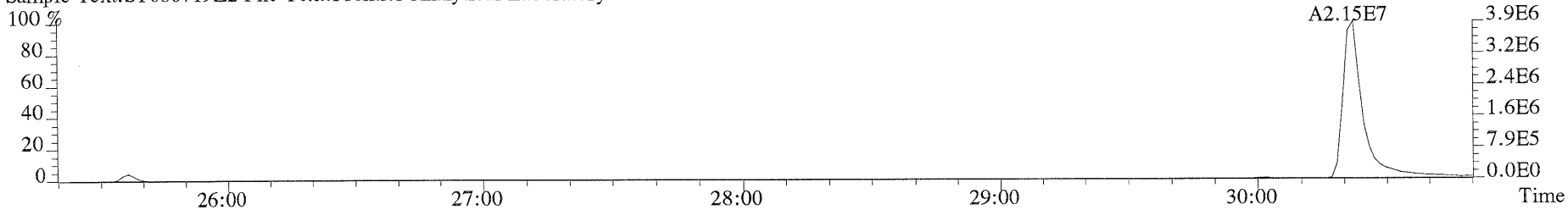
File:07AUG19Z #1-520 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



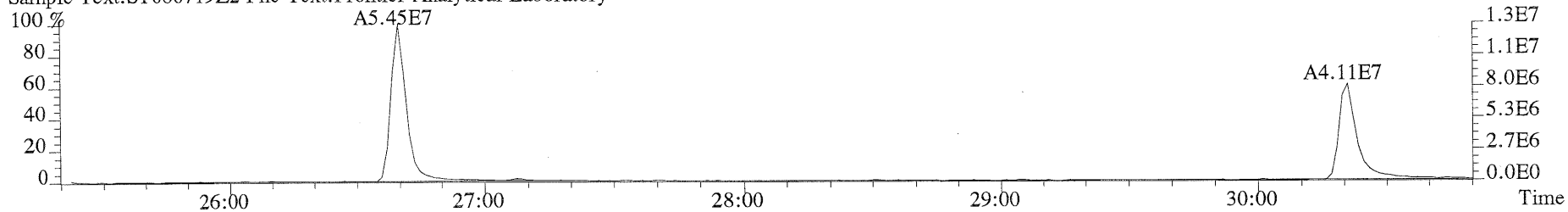
File:07AUG19Z #1-401 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



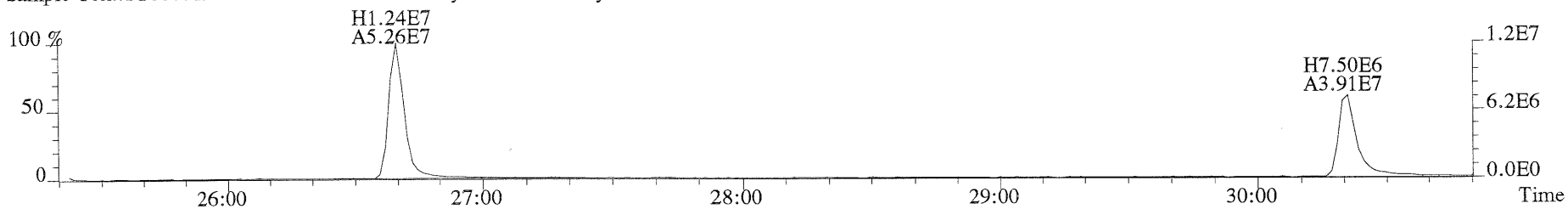
File:07AUG19Z #1-401 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



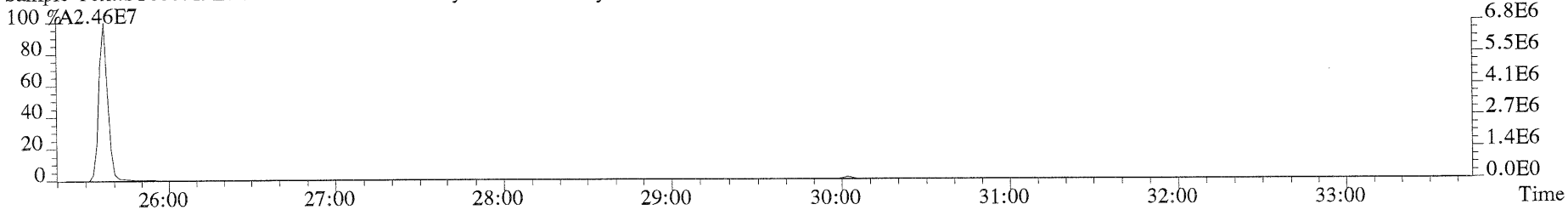
File:07AUG19Z #1-401 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



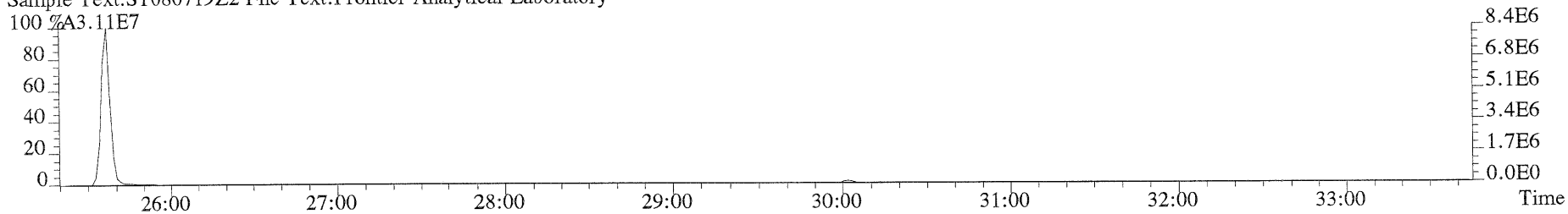
File:07AUG19Z #1-401 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



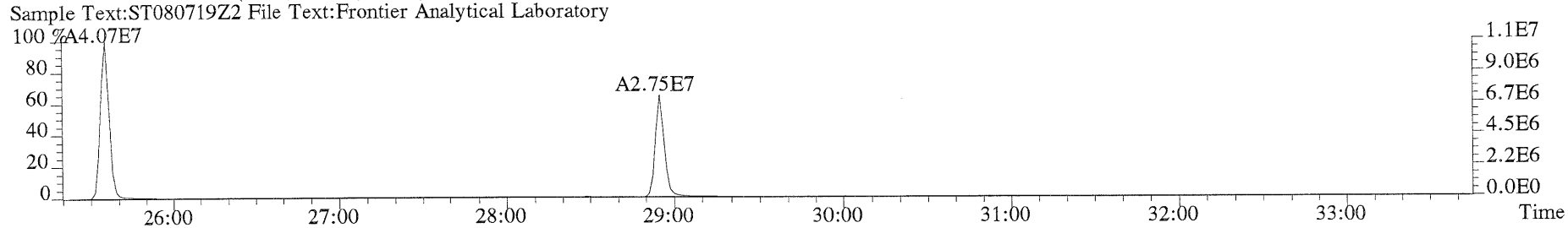
File:07AUG19Z #1-401 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



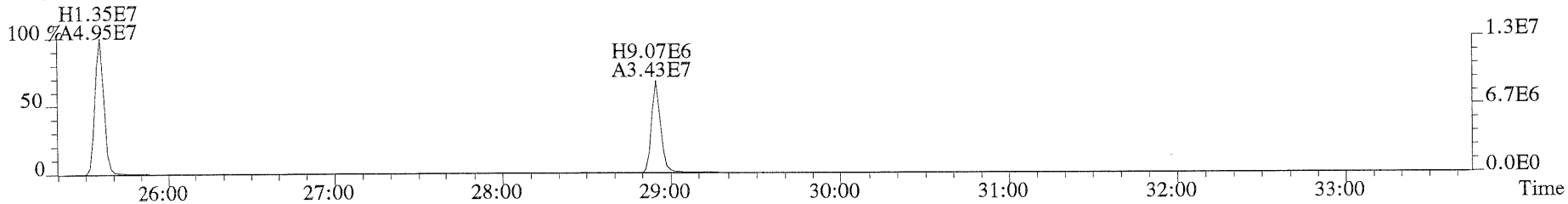
File:07AUG19Z #1-401 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



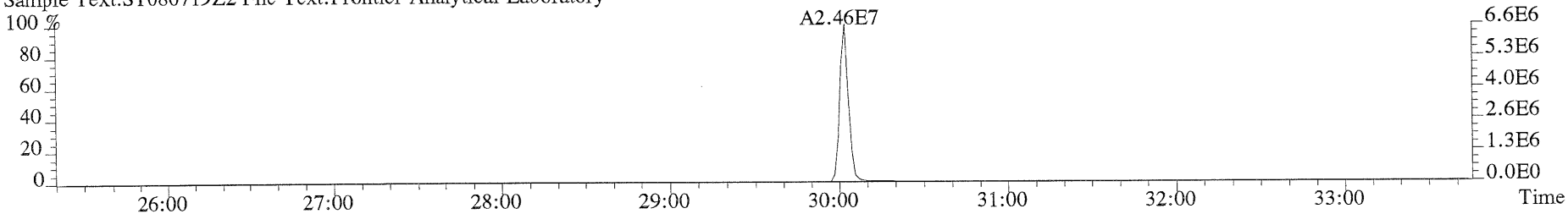
File:07AUG19Z #1-401 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



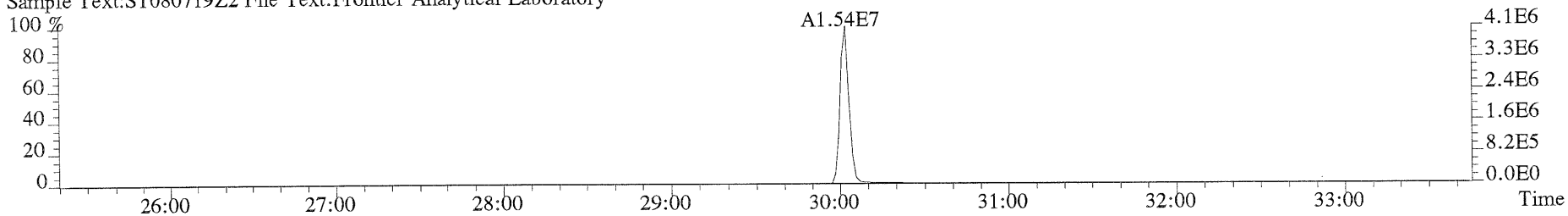
File:07AUG19Z #1-401 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



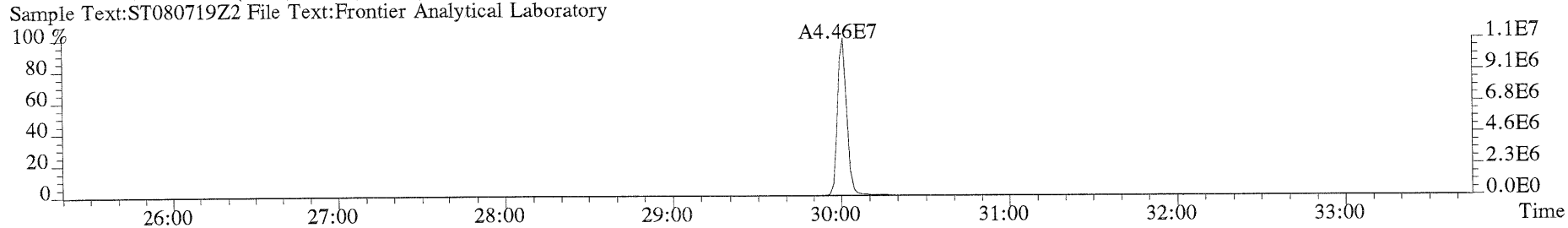
File:07AUG19Z #1-401 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



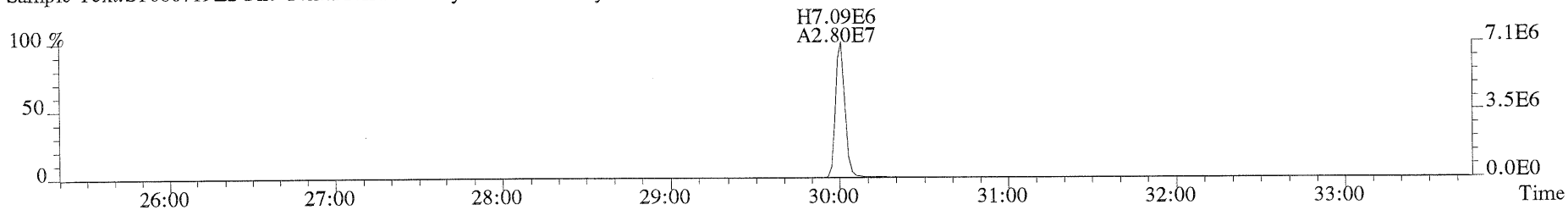
File:07AUG19Z #1-401 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



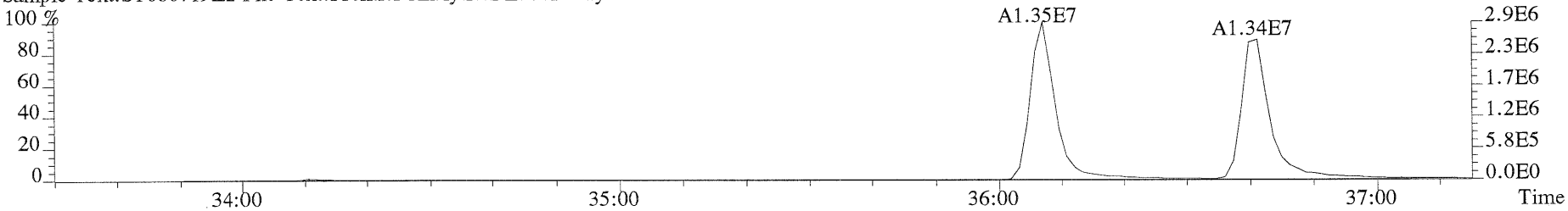
File:07AUG19Z #1-401 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



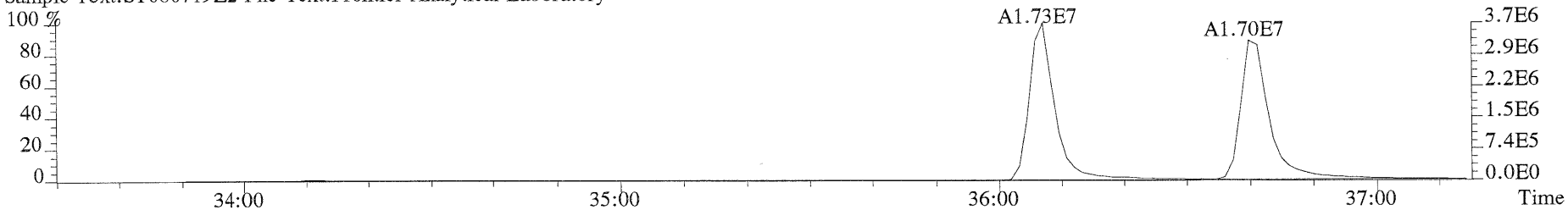
File:07AUG19Z #1-401 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



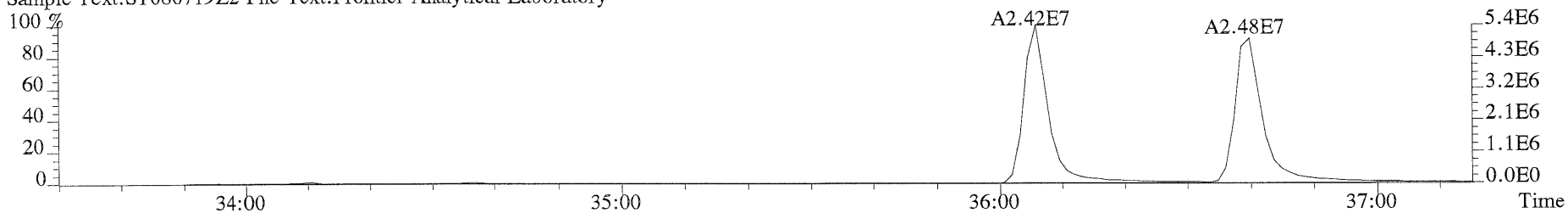
File:07AUG19Z #1-181 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



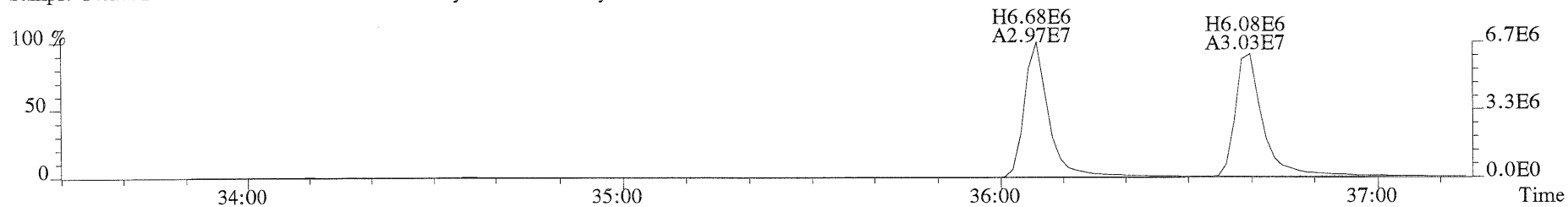
File:07AUG19Z #1-181 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



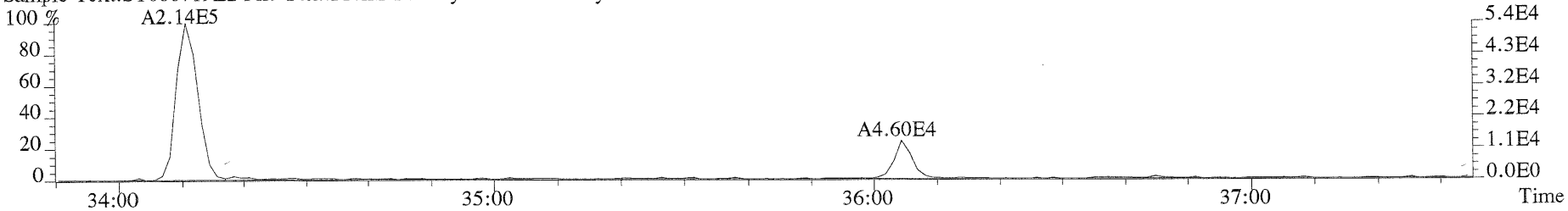
File:07AUG19Z #1-181 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



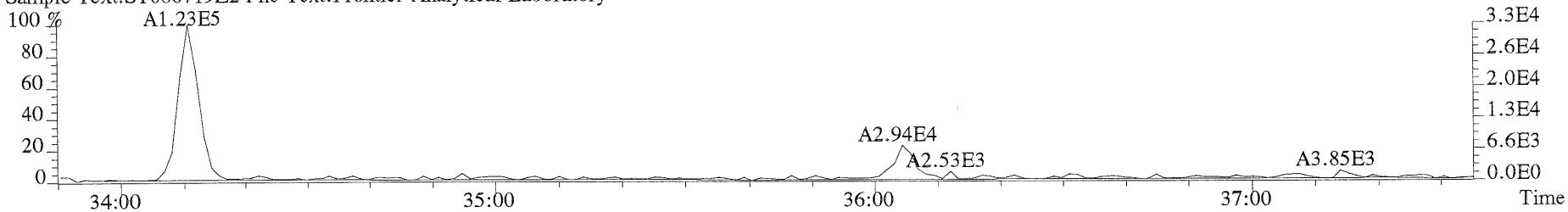
File:07AUG19Z #1-181 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



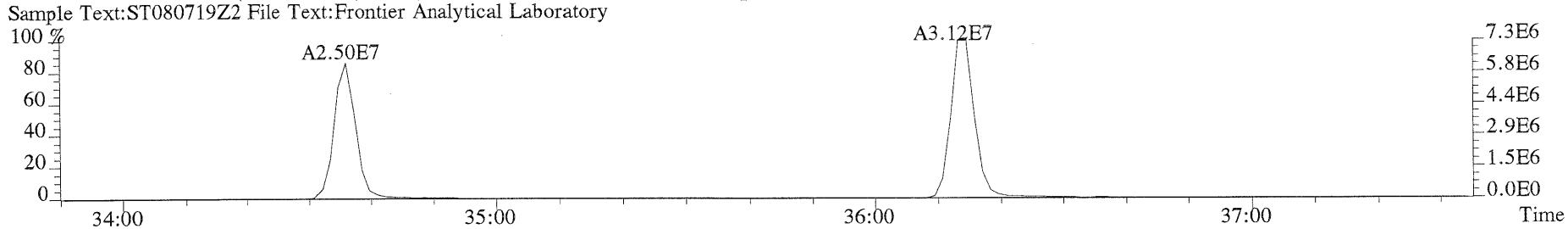
File:07AUG19Z #1-181 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



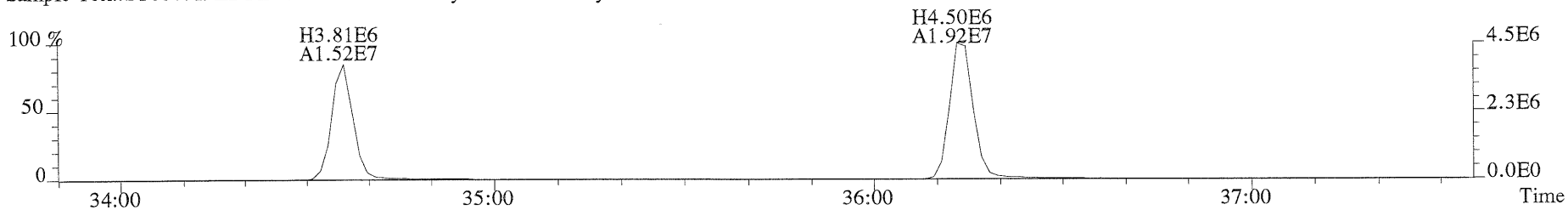
File:07AUG19Z #1-181 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



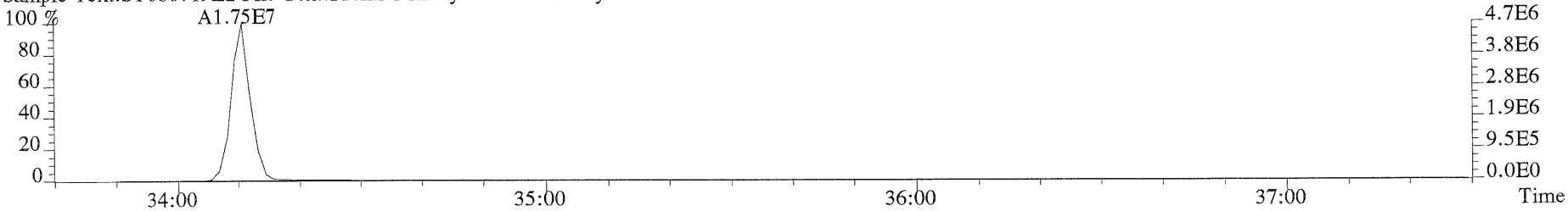
File:07AUG19Z #1-181 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



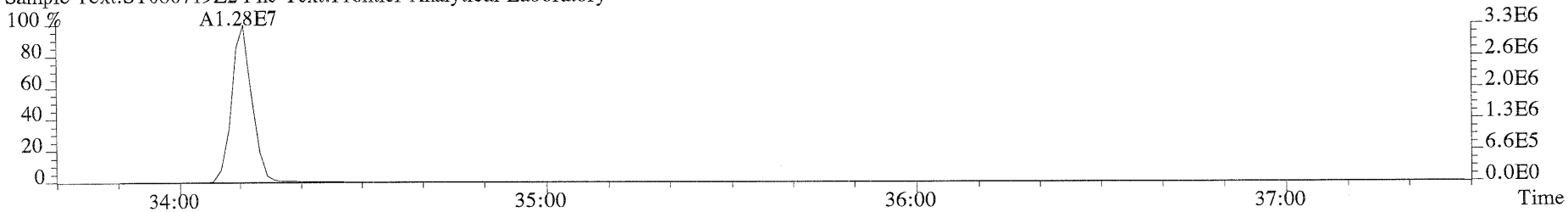
File:07AUG19Z #1-181 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



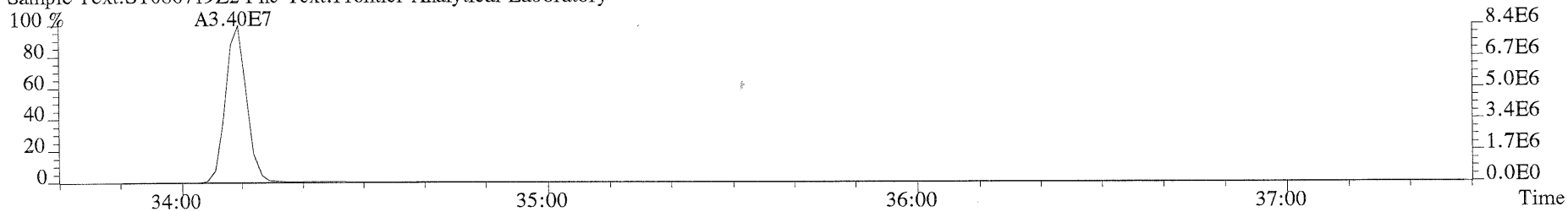
File:07AUG19Z #1-181 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



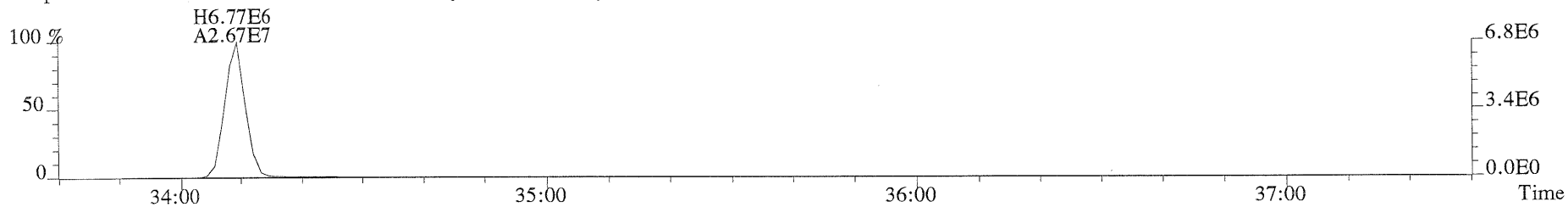
File:07AUG19Z #1-181 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



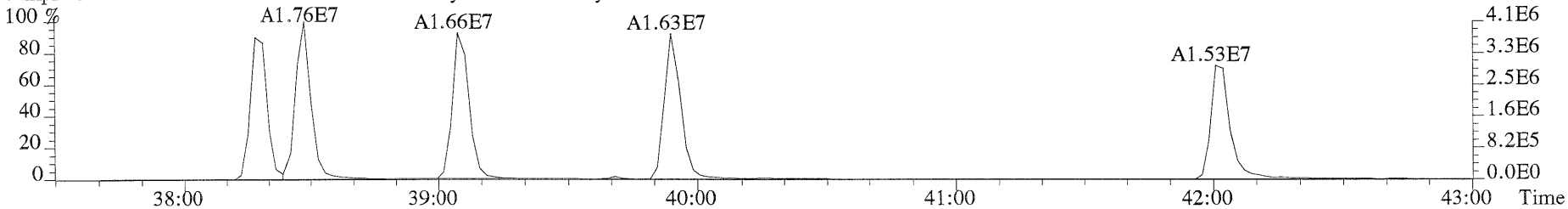
File:07AUG19Z #1-181 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



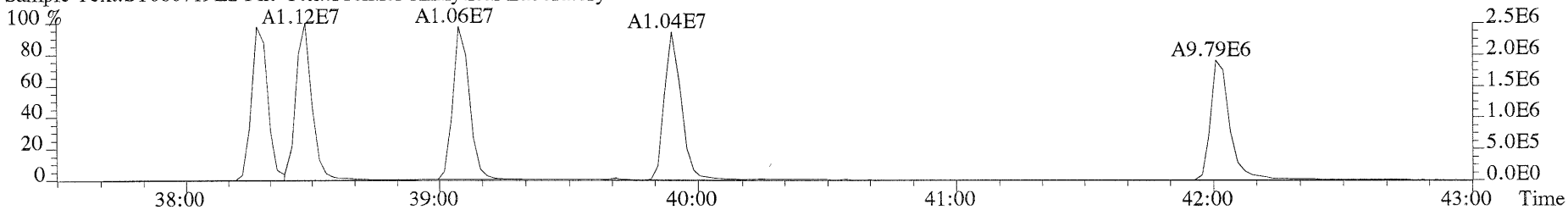
File:07AUG19Z #1-181 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



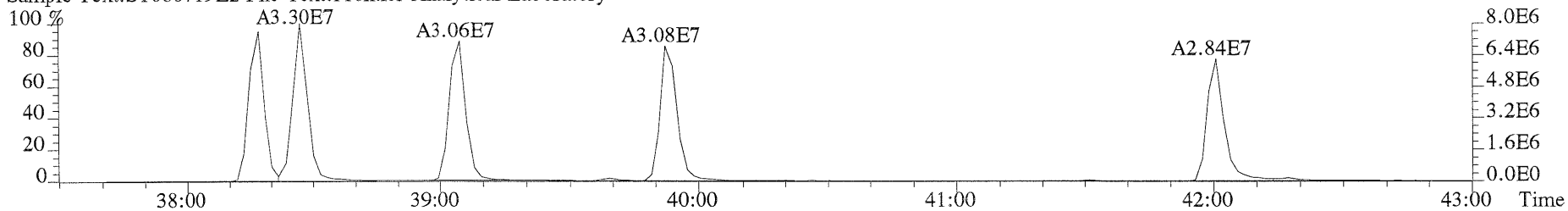
File:07AUG19Z #1-405 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



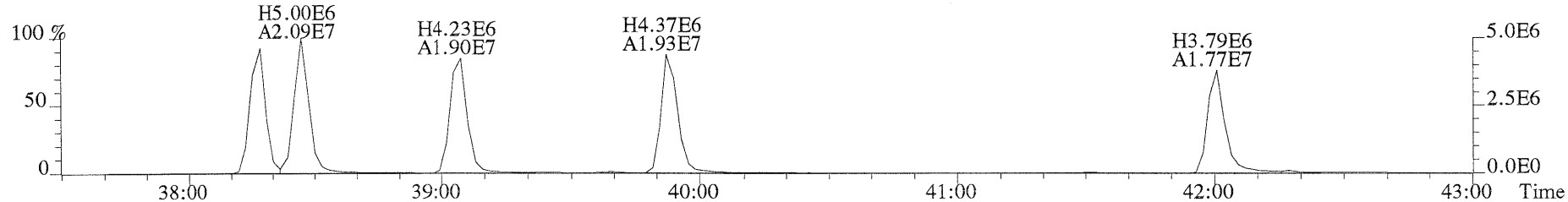
File:07AUG19Z #1-405 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



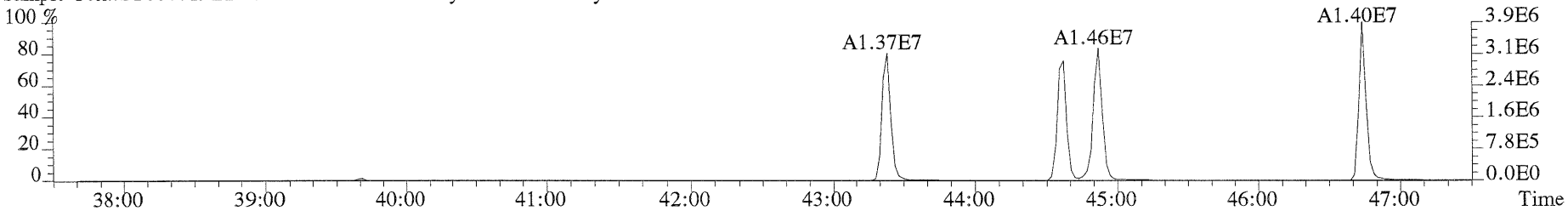
File:07AUG19Z #1-405 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



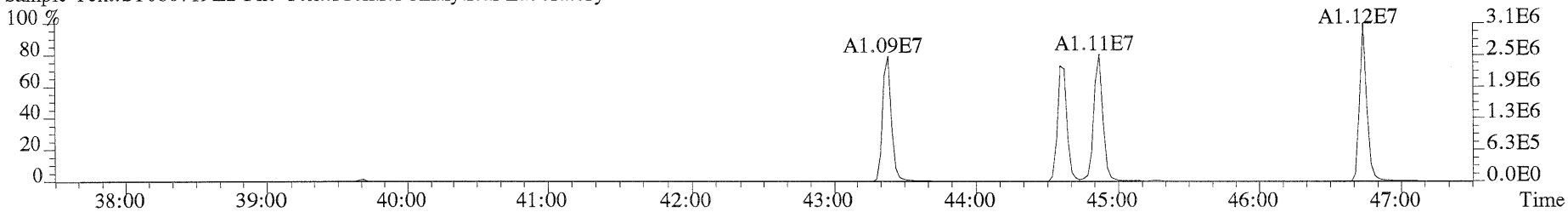
File:07AUG19Z #1-405 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



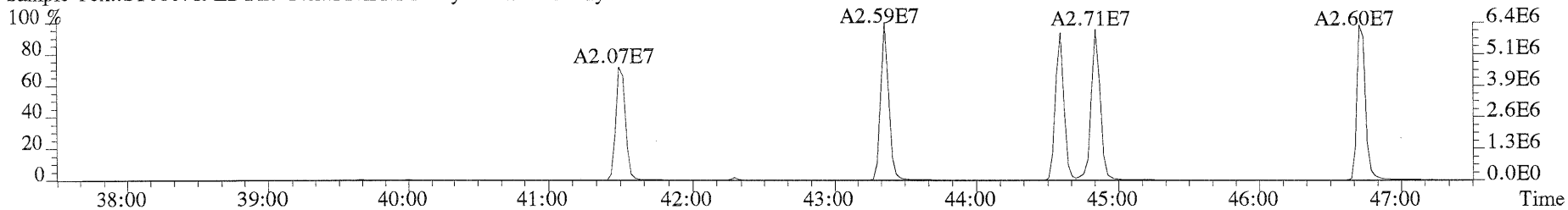
File:07AUG19Z #1-405 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



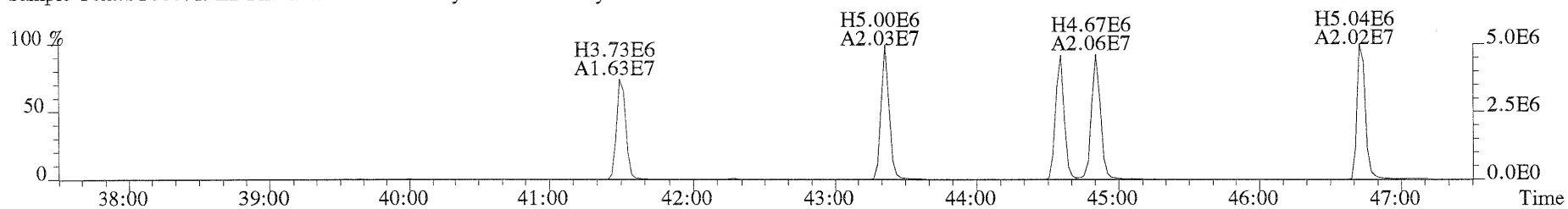
File:07AUG19Z #1-405 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



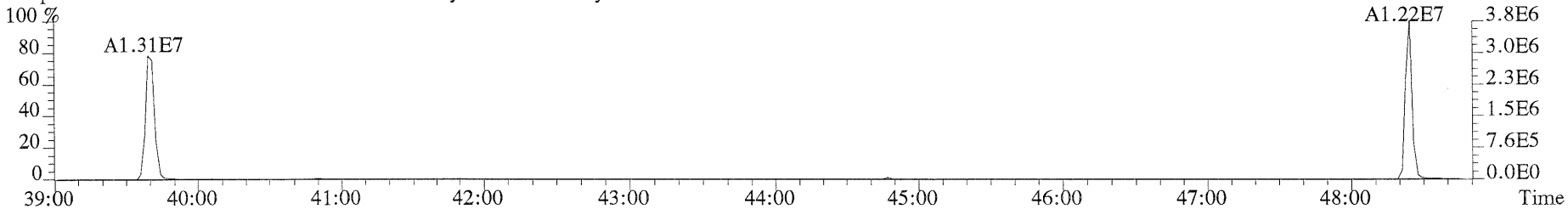
File:07AUG19Z #1-405 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



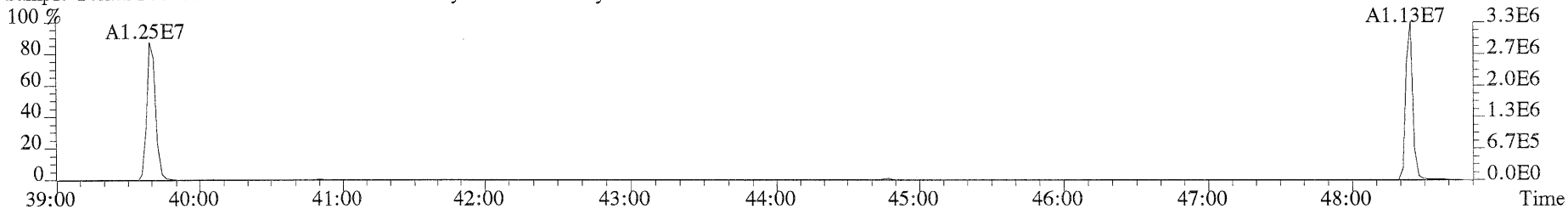
File:07AUG19Z #1-405 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



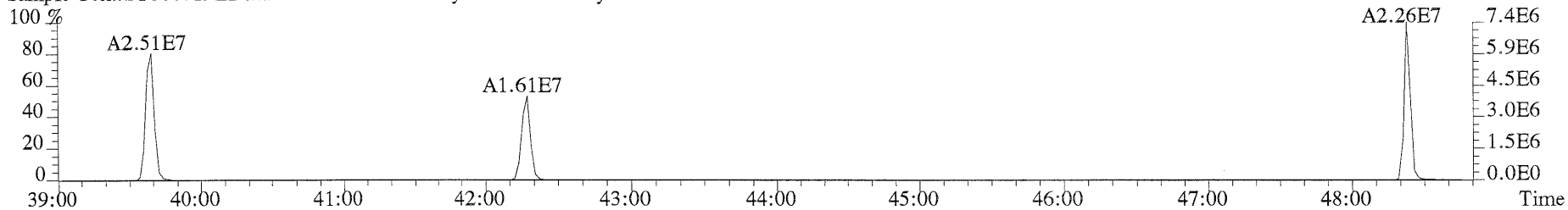
File:07AUG19Z #1-405 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



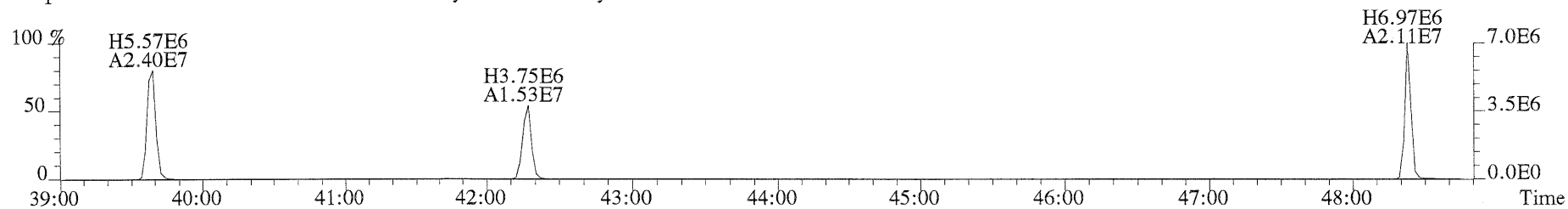
File:07AUG19Z #1-405 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



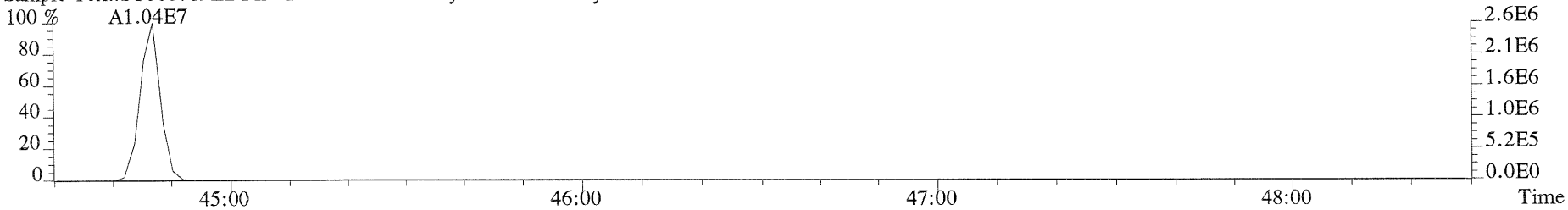
File:07AUG19Z #1-405 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



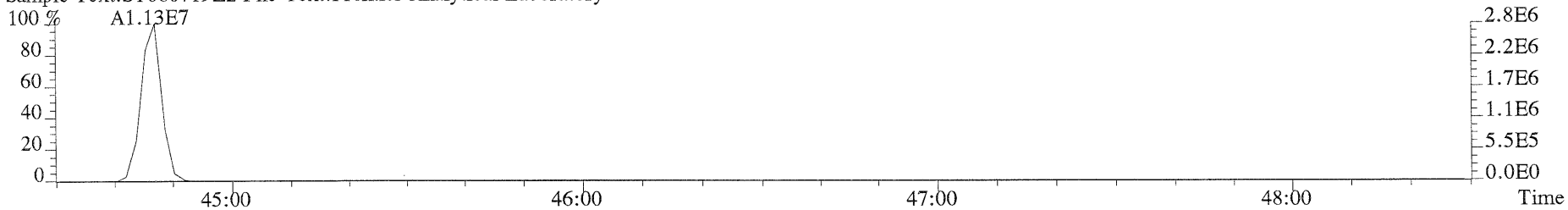
File:07AUG19Z #1-405 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



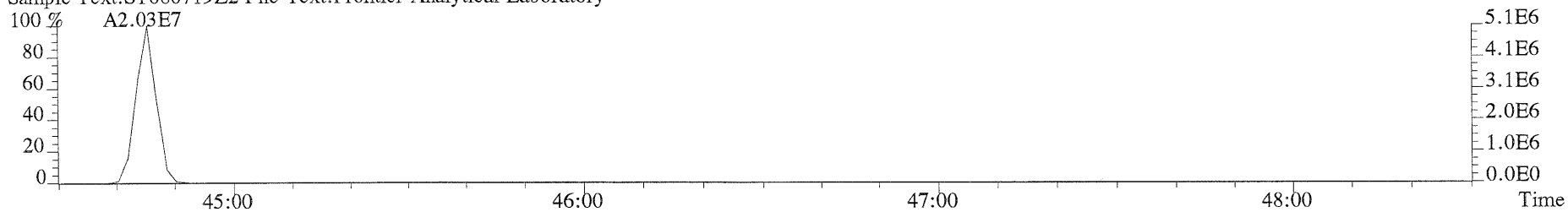
File:07AUG19Z #1-405 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



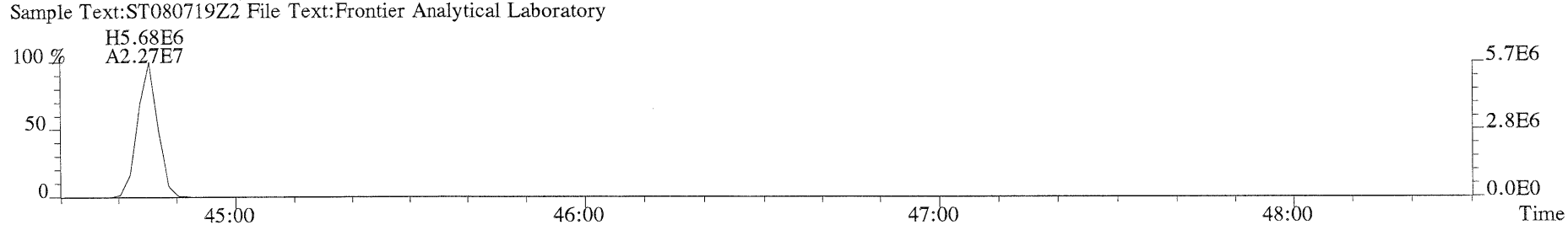
File:07AUG19Z #1-405 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



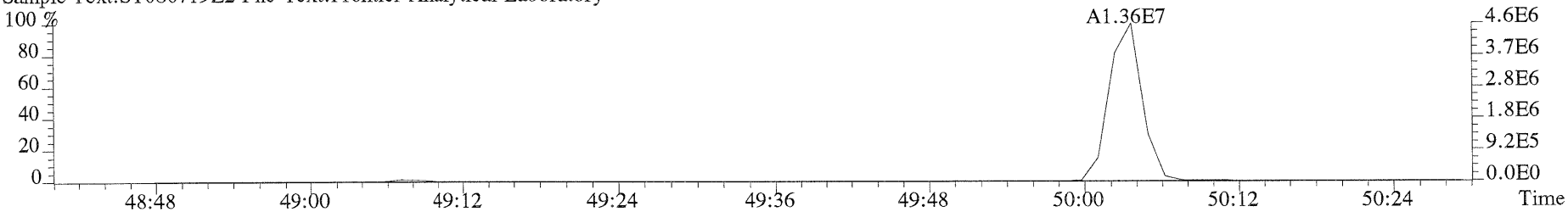
File:07AUG19Z #1-405 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



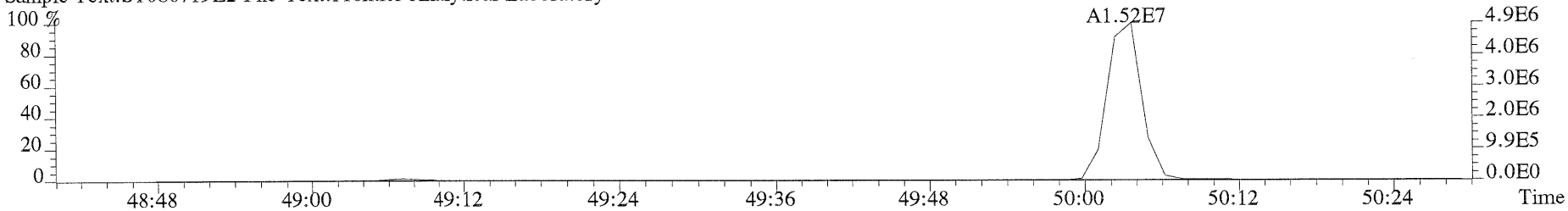
File:07AUG19Z #1-405 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



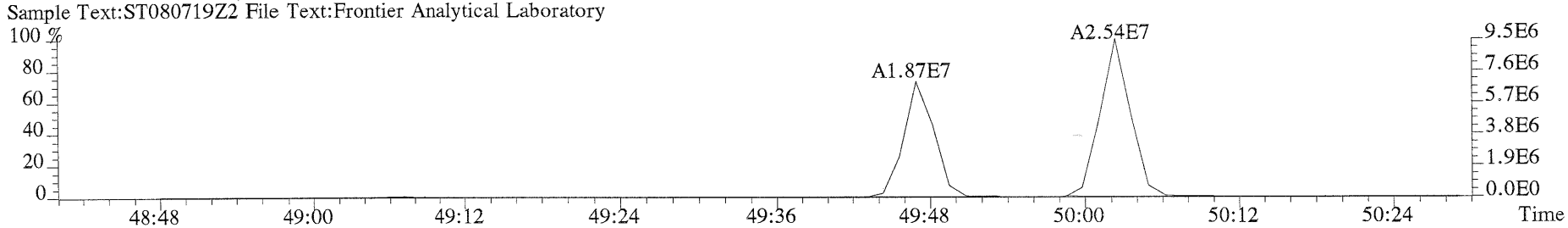
File:07AUG19Z #1-315 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



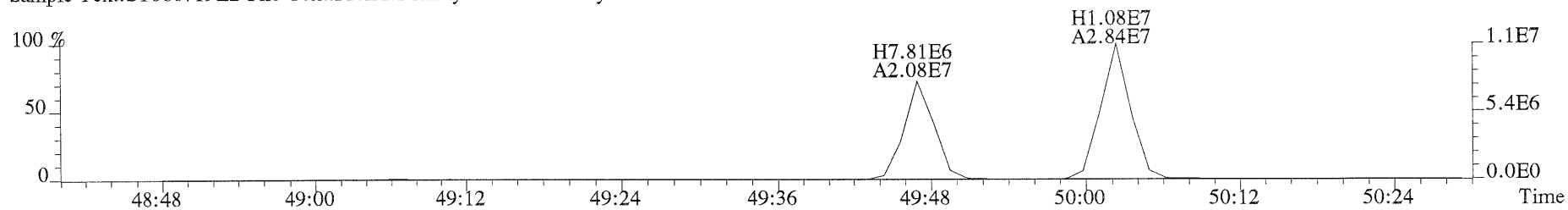
File:07AUG19Z #1-315 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



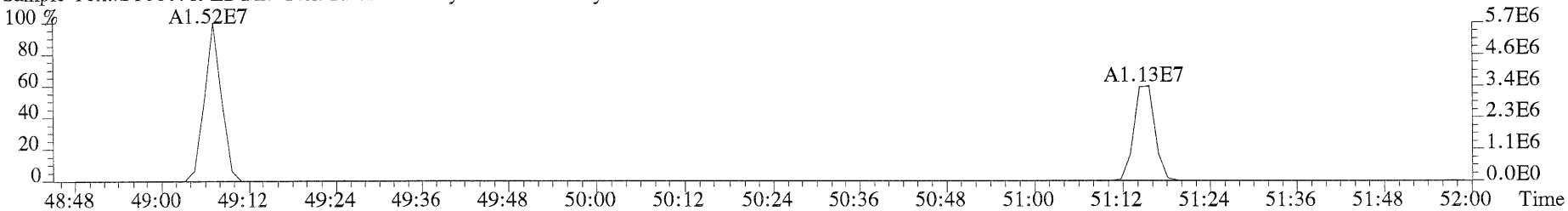
File:07AUG19Z #1-315 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



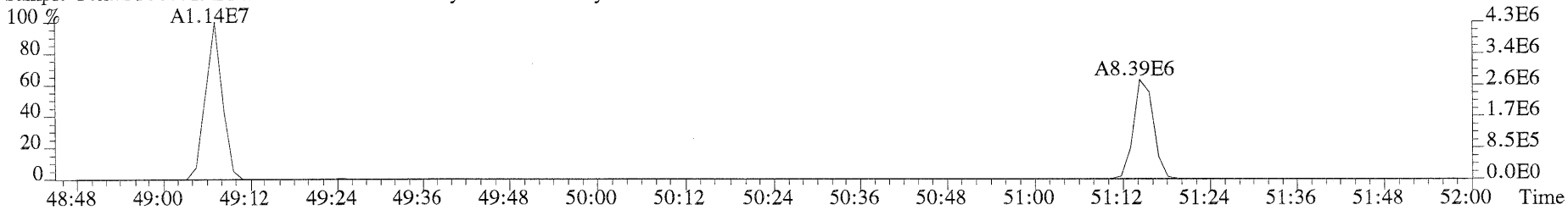
File:07AUG19Z #1-315 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



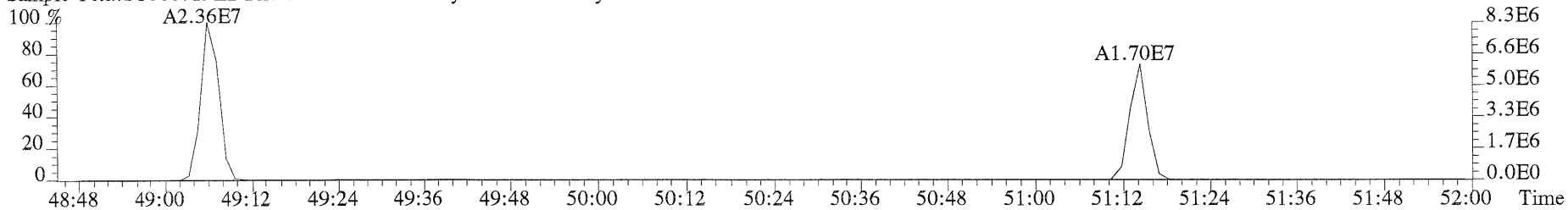
File:07AUG19Z #1-315 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



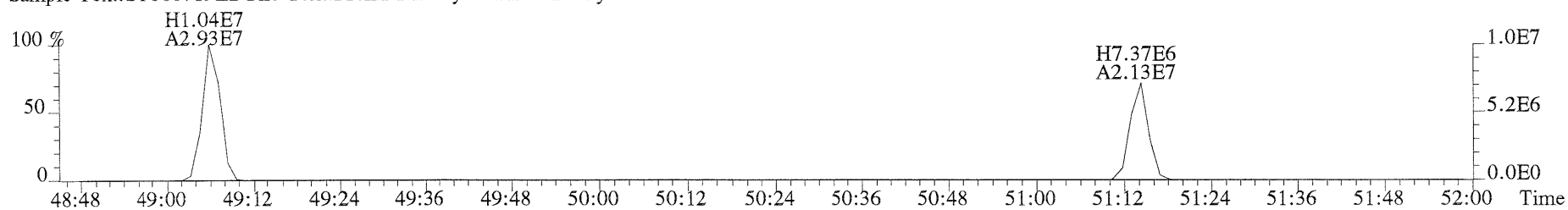
File:07AUG19Z #1-315 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



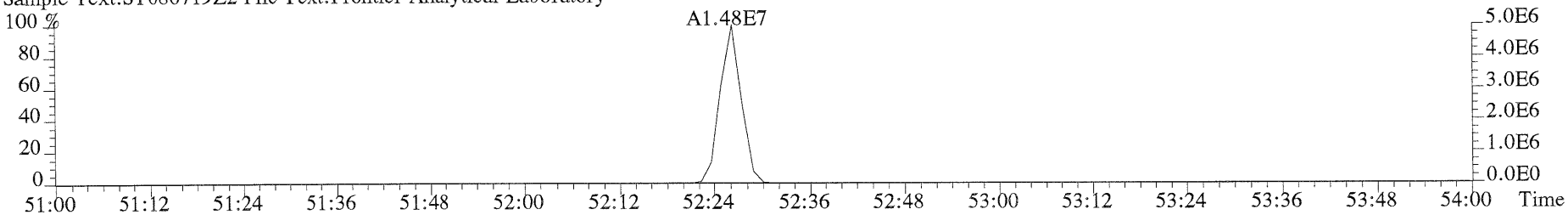
File:07AUG19Z #1-315 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



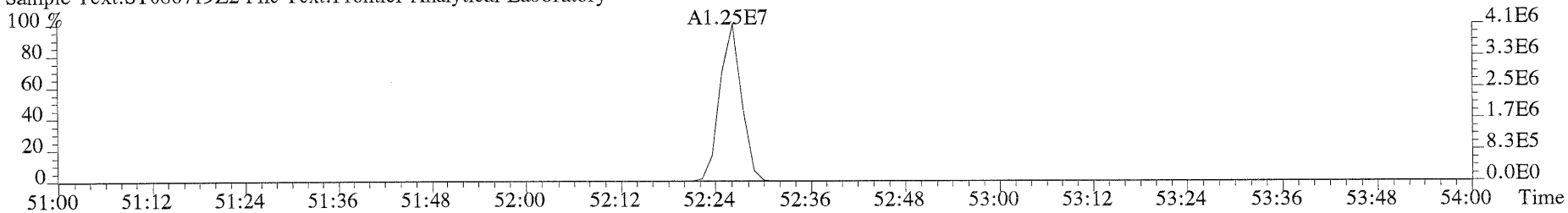
File:07AUG19Z #1-315 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



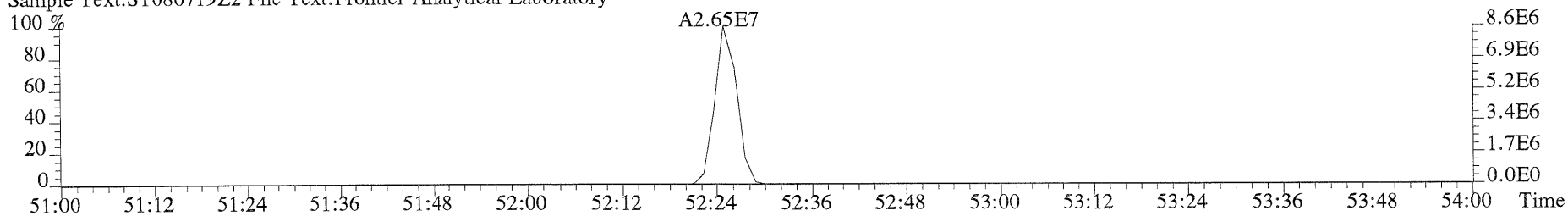
File:07AUG19Z #1-315 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



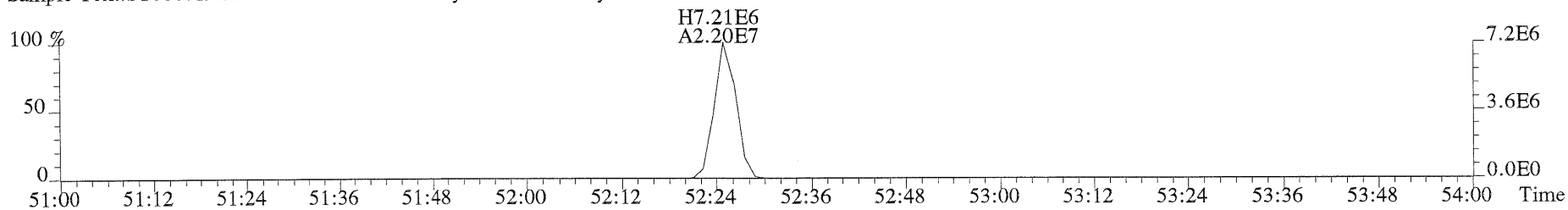
File:07AUG19Z #1-315 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



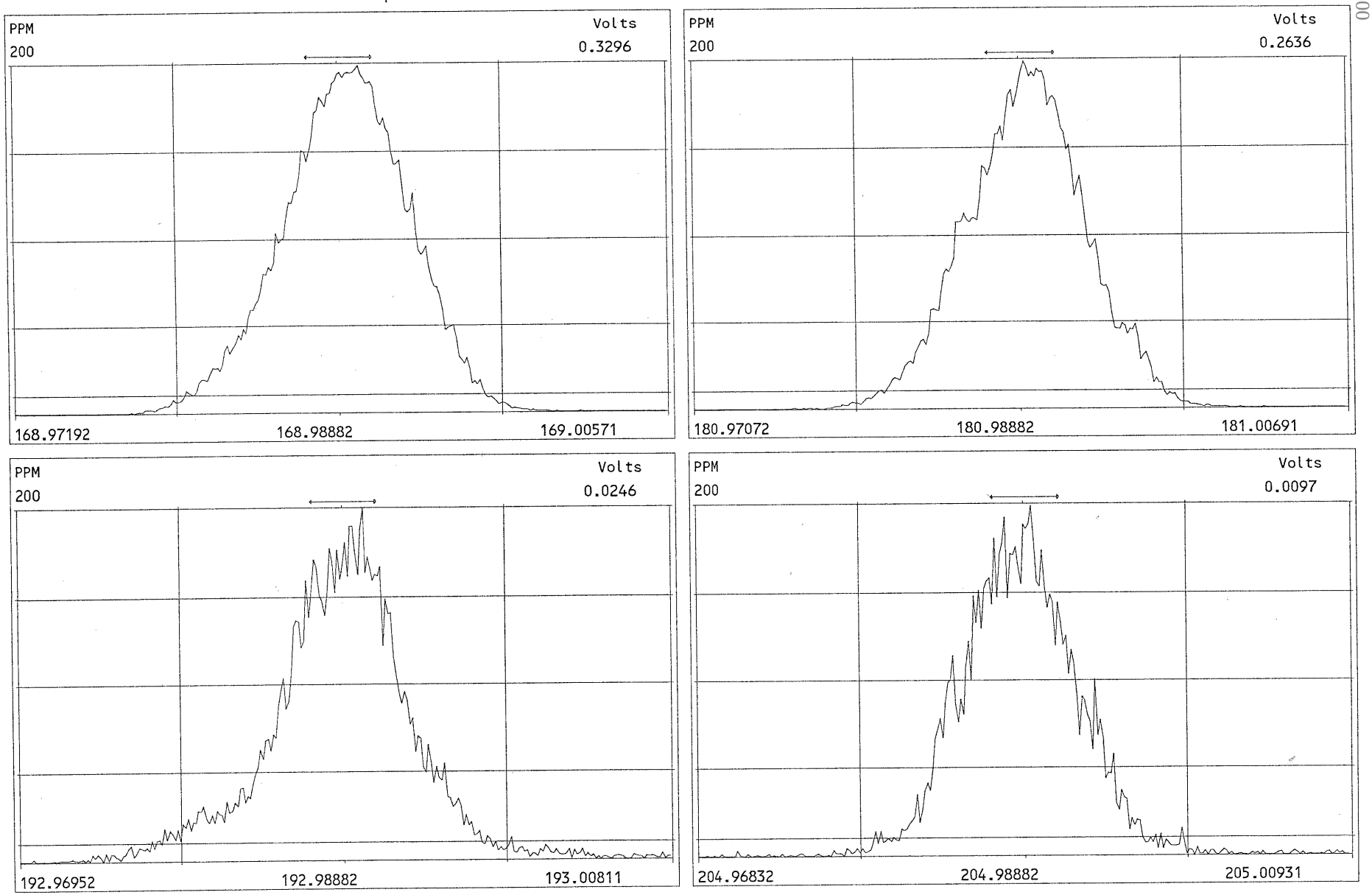
File:07AUG19Z #1-315 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory



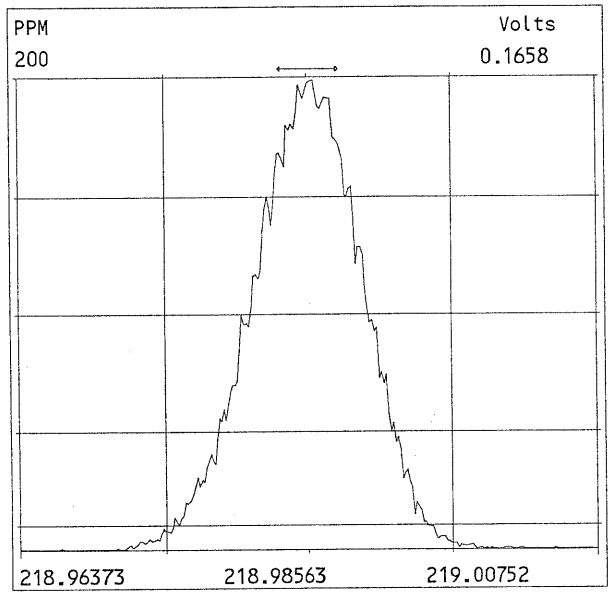
File:07AUG19Z #1-315 Acq: 7-AUG-2019 20:01:51 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080719Z2 File Text:Frontier Analytical Laboratory

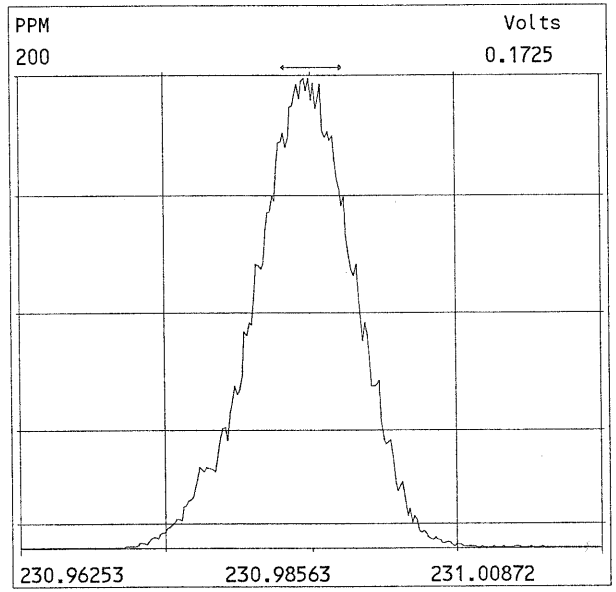


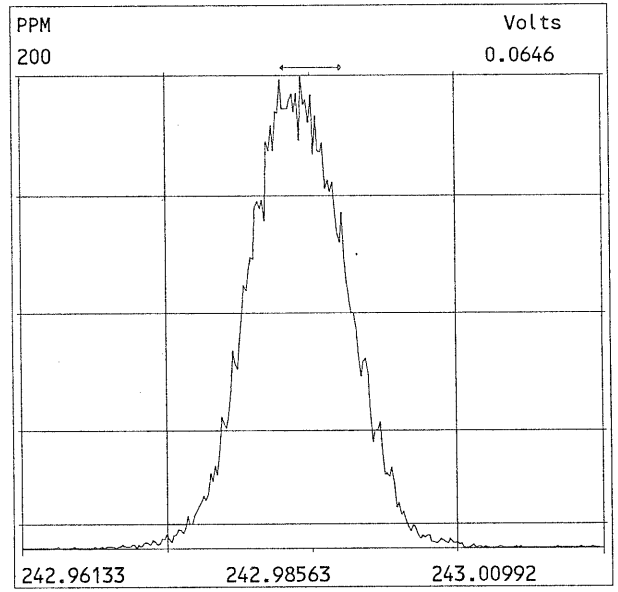
Peak Locate Examination: 7-AUG-2019:21:29 File:07AUG19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

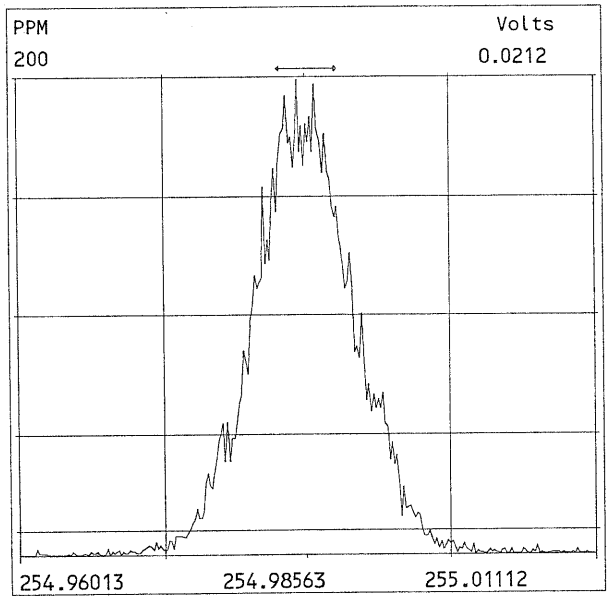


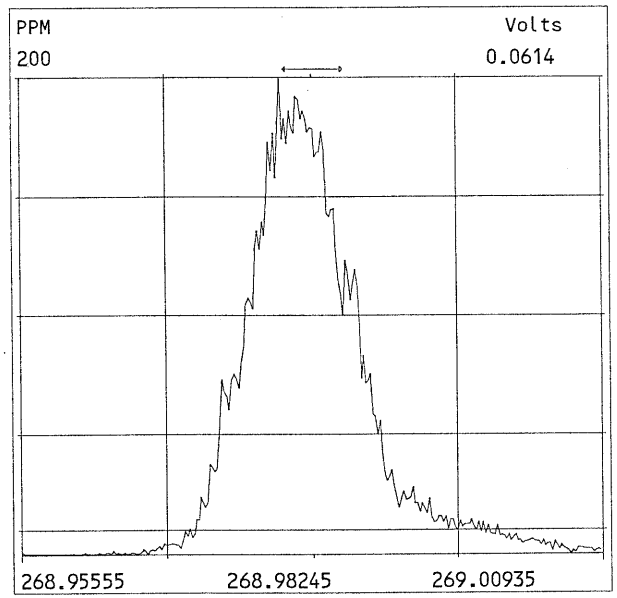
Peak Locate Examination: 7-AUG-2019:21:31 File:07AUG19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

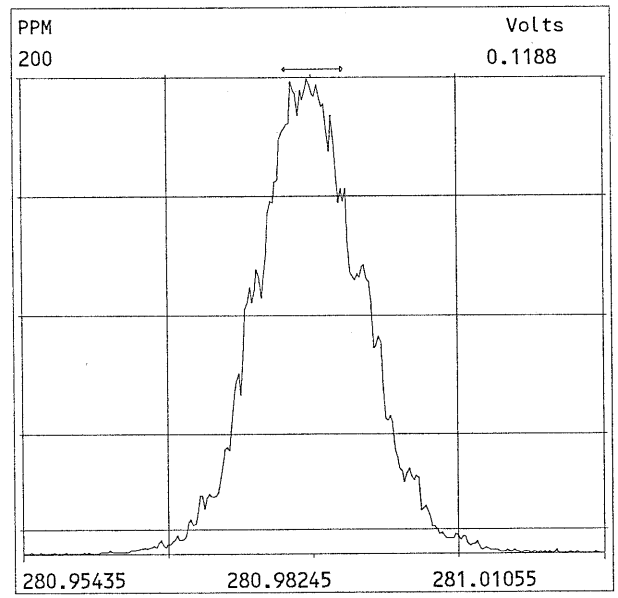




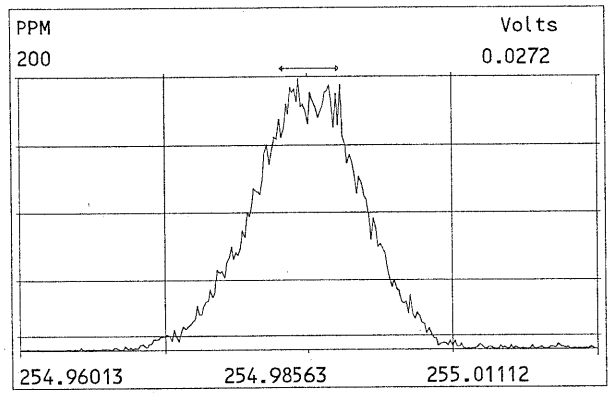


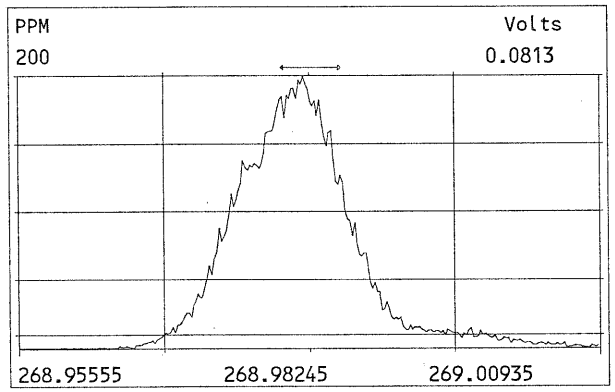


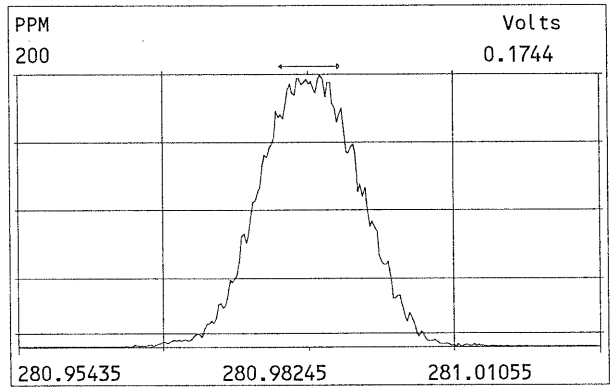


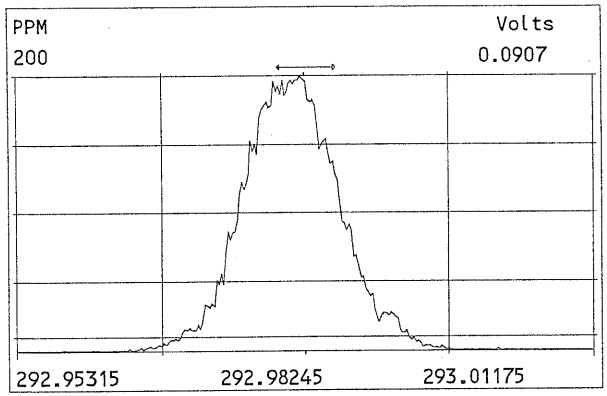


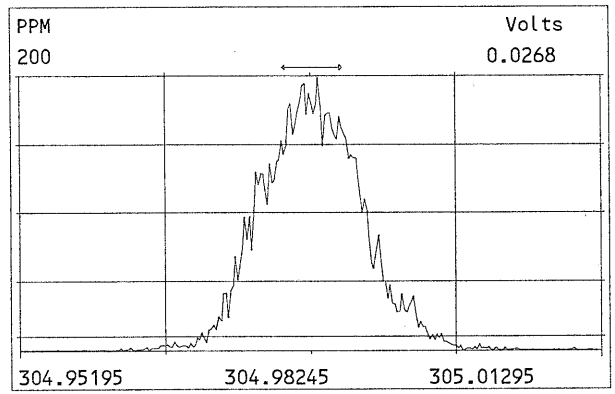
Peak Locate Examination: 7-AUG-2019:21:33 File:07AUG19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

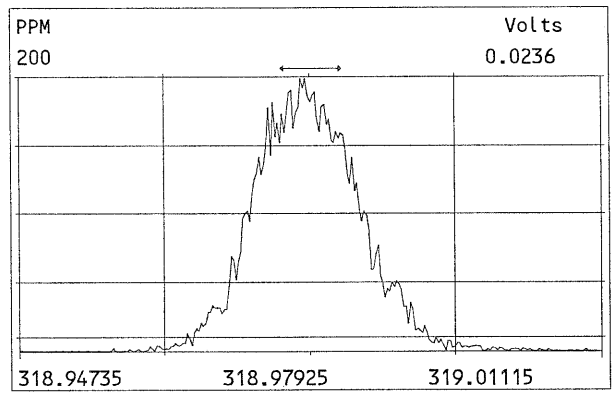


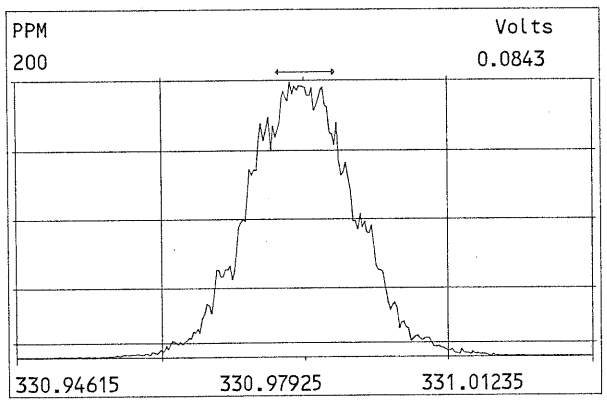


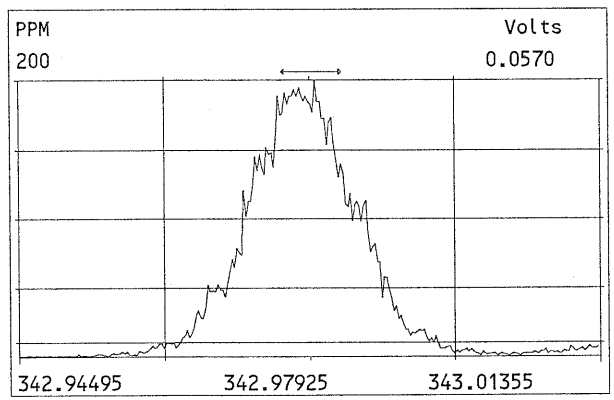




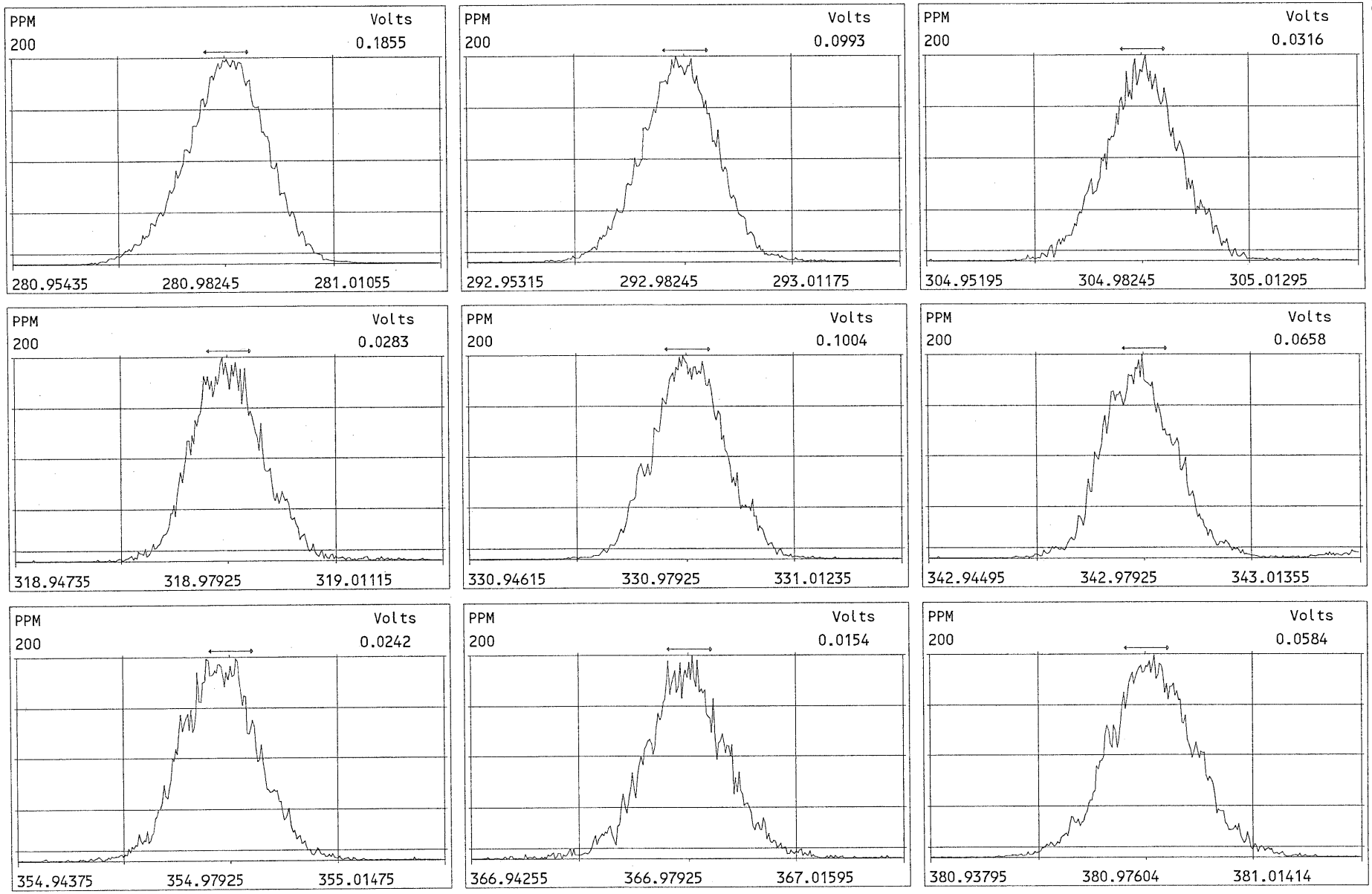




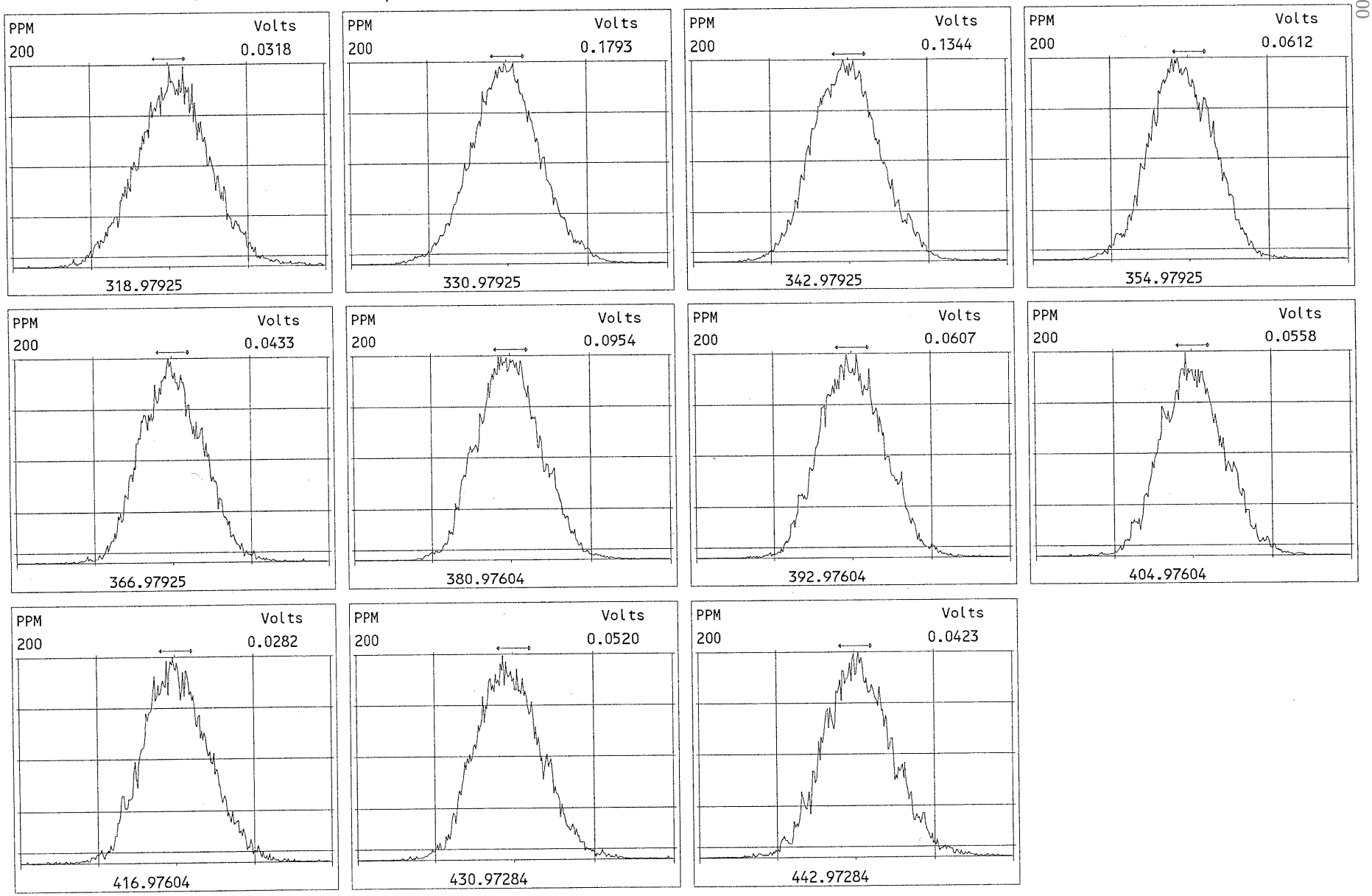
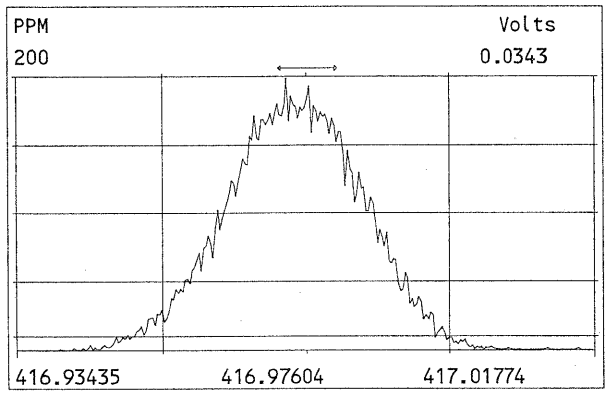
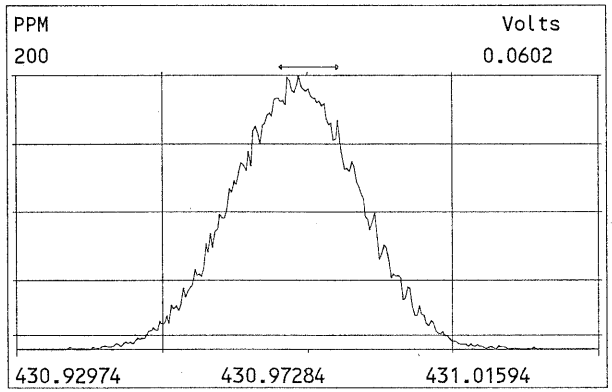
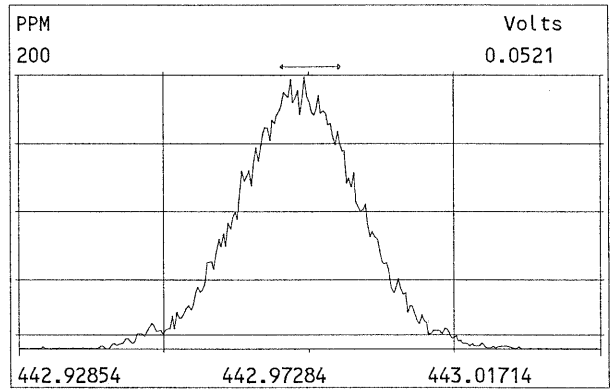
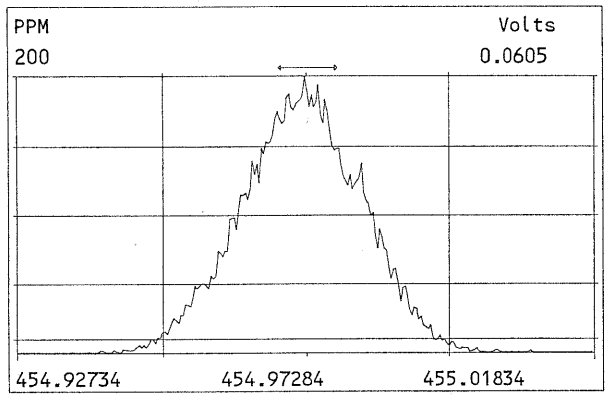
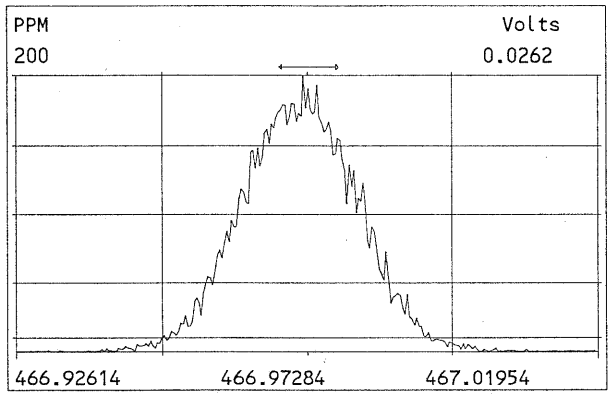
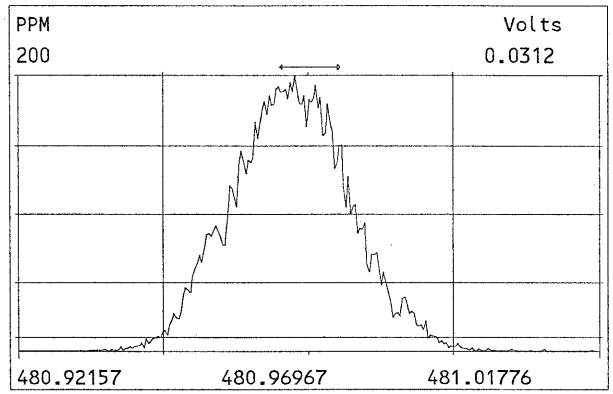
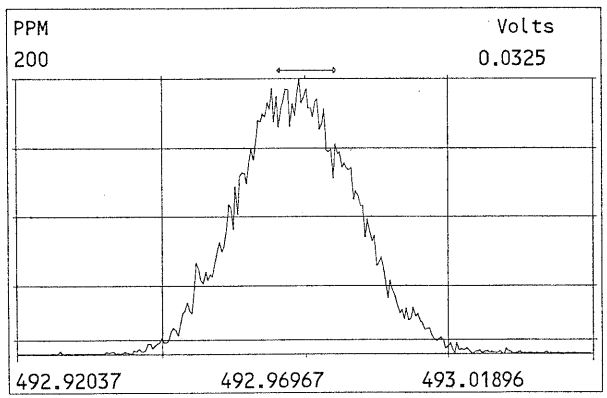
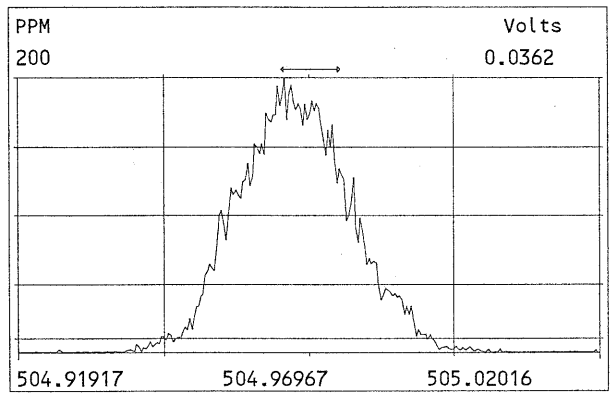
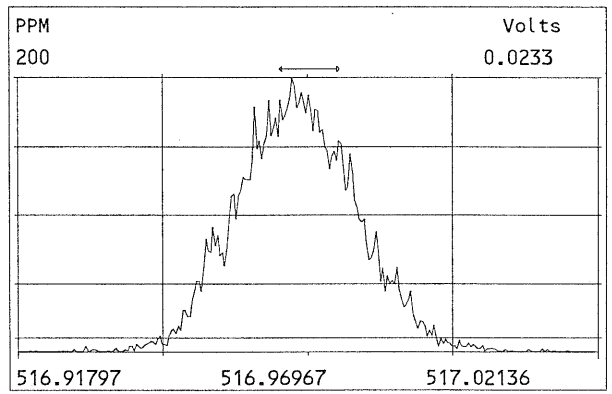




Peak Locate Examination: 7-AUG-2019:21:35 File:07AUG19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK



Peak Locate Examination: 7-AUG-2019:21:38 File:07AUG19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK



Peak Locate Examination: 7-AUG-2019:21:40 File:07AUG19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK