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 **12512**. These results correspond to your **LDW ENR/AC Pilot Study** project under project number **LY15160310**. Fifteen hexane solvent samples were received on 6/28/2019 in good condition. Per your e-mail request on 7/9/2019, the following samples were prepared however not analyzed; 12512-002-SA, 12512-003-SA, 12512-009-SA, 12512-010-SA, 12512-011-SA and 12512-012-SA (Floyd Snider IDs: LDW-Y2-IN-ENR-CC-SSW1, LDW-Y2-IN-ENR-CD-SSW1, LDW-Y2-SC-ENR+AC-CE-S010, LDW-Y2-SC-ENR+AC-CF-S010, LDW-Y2-SC-ENR-CA-S010 and LDW-Y2-SC-ENR-CB-S010 respectively). In addition, you requested we combine samples 12512-005-SA and 12512-008-SA (Floyd Snider IDs: LDW-Y2-SC-ENR+AC-CA-S010 and LDW-Y2-SC-ENR+AC-CD-S010 respectively). These samples were combined and given the FAL sample ID 12512-016-SA and Floyd Snider ID LDW-Y2-SC-ENR+AC-CA/AC-CD-S010. The original seven 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 **12512**.

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 **12512**, 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: **12512**

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
12512-001-SA	0	LY15160310	LDW-Y2-IN-ENR-CB-SSWI	EPA 1668 PCB	Solvent	06/24/2019	01:41 pm	06/23/2020
12512-002-SA	0	LY15160310	LDW-Y2-IN-ENR-CC-SSWI	EPA 1668 PCB	Solvent	06/24/2019	01:50 pm	06/23/2020
12512-003-SA	0	LY15160310	LDW-Y2-IN-ENR-CD-SSWI	EPA 1668 PCB	Solvent	06/24/2019	01:56 pm	06/23/2020
12512-004-SA	0	LY15160310	LDW-Y2-IN-ENR-CE-SSWI	EPA 1668 PCB	Solvent	06/24/2019	02:03 pm	06/23/2020
12512-005-SA	0	LY15160310	LDW-Y2-SC-ENR+AC-CA-S010	EPA 1668 PCB	Solvent	06/26/2019	08:32 am	06/25/2020
12512-006-SA	0	LY15160310	LDW-Y2-SC-ENR+AC-CB-S010	EPA 1668 PCB	Solvent	06/26/2019	08:44 am	06/25/2020
12512-007-SA	0	LY15160310	LDW-Y2-SC-ENR+AC-CC-S010	EPA 1668 PCB	Solvent	06/26/2019	08:53 am	06/25/2020
12512-008-SA	0	LY15160310	LDW-Y2-SC-ENR+AC-CD-S010	EPA 1668 PCB	Solvent	06/26/2019	09:01 am	06/25/2020
12512-009-SA	0	LY15160310	LDW-Y2-SC-ENR+AC-CE-S010	EPA 1668 PCB	Solvent	06/26/2019	09:08 am	06/25/2020
12512-010-SA	0	LY15160310	LDW-Y2-SC-ENR+AC-CF-S010	EPA 1668 PCB	Solvent	06/26/2019	09:17 am	06/25/2020
12512-011-SA	0	LY15160310	LDW-Y2-SC-ENR-CA-S010	EPA 1668 PCB	Solvent	06/26/2019	09:56 am	06/25/2020
12512-012-SA	0	LY15160310	LDW-Y2-SC-ENR-CB-S010	EPA 1668 PCB	Solvent	06/26/2019	10:06 am	06/25/2020
12512-013-SA	0	LY15160310	LDW-Y2-SC-ENR-CC-S010	EPA 1668 PCB	Solvent	06/26/2019	10:15 am	06/25/2020
12512-014-SA	0	LY15160310	LDW-Y2-SC-ENR-CD-S010	EPA 1668 PCB	Solvent	06/26/2019	10:26 am	06/25/2020
12512-015-SA	0	LY15160310	LDW-Y2-SC-ENR-CE-S010	EPA 1668 PCB	Solvent	06/26/2019	10:40 am	06/25/2020
12512-016-SA	0	LY15160310	LDW-Y2-SC-ENR+AC-CA/AC-CD-S010	EPA 1668 PCB	Solvent	06/26/2019	NP	06/25/2020

FAL Sample ID	Notes
12512-001-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12512-002-SA	Extract and hold.
12512-003-SA	Extract and hold.
12512-004-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12512-005-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019 Comp with sample 8 (LDW-Y2-SC-ENR+AC-CD-S010)
12512-006-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12512-007-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12512-008-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019 Comp with sample 5 (LDW-Y2-SC-ENR+AC-CA-S010)
12512-009-SA	Extract and hold.
12512-010-SA	Extract and hold.
12512-011-SA	Extract and hold.
12512-012-SA	Extract and hold.
12512-013-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12512-014-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12512-015-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12512-016-SA	Sample is a Composite of LDW-Y2-SC-ENR+AC-CA-S010 and LDW-Y2-SC-ENR+AC-CD-S010.

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EPA Method 1668
PCBs

FAL ID: 12512-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-8-6-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-06-2019
Total Conc: 0.0

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.55			PCB-51	ND	3.09		
PCB-2	ND	2.69			PCB-52	ND	3.24	C	69
PCB-3	ND	2.88			PCB-53	ND	3.11		
PCB-4	ND	7.50			PCB-54	ND	2.45		
PCB-5	ND	6.53			PCB-55	ND	2.81		
PCB-6	ND	6.16			PCB-56	ND	3.91	C	60
PCB-7	ND	6.28			PCB-57	ND	2.95		
PCB-8	ND	6.53			PCB-58	ND	2.87		
PCB-9	ND	6.30			PCB-59	-	-	C042	42
PCB-10	ND	6.95			PCB-60	-	-	C056	56
PCB-11	ND	7.73			PCB-61	ND	3.06	C	70
PCB-12	ND	7.37			PCB-62	ND	2.61		
PCB-13	ND	7.77			PCB-63	ND	2.93		
PCB-14	ND	7.07			PCB-64	-	-	C041	41/71/72
PCB-15	ND	8.27			PCB-65	ND	2.86		
PCB-16	ND	3.62			PCB-66	ND	2.81	C	76
PCB-17	ND	3.84			PCB-67	ND	2.87		
PCB-18	ND	4.26			PCB-68	ND	2.58		
PCB-19	ND	4.02			PCB-69	-	-	C052	52
PCB-20	ND	4.91	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	4.63			PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.72			PCB-73	ND	2.47		
PCB-24	ND	3.06			PCB-74	ND	2.93		
PCB-25	ND	4.83			PCB-75	-	-	C048	48
PCB-26	ND	4.77			PCB-76	-	-	C066	66
PCB-27	ND	2.92			PCB-77	ND	4.27		
PCB-28	ND	4.07			PCB-78	ND	3.95		
PCB-29	ND	4.91			PCB-79	ND	3.85		
PCB-30	ND	2.78			PCB-80	ND	2.44		
PCB-31	ND	4.81			PCB-81	ND	3.56		
PCB-32	ND	3.34			PCB-82	ND	8.03		
PCB-33	-	-	C020	20/21	PCB-83	ND	5.82	C	112
PCB-34	ND	4.77			PCB-84	ND	6.72	C	92
PCB-35	ND	5.62			PCB-85	ND	5.59	C	116
PCB-36	ND	5.09			PCB-86	ND	6.88		
PCB-37	ND	5.36			PCB-87	ND	5.19	C	117/125
PCB-38	ND	5.14			PCB-88	ND	3.05	C	91
PCB-39	ND	5.14			PCB-89	ND	6.47		
PCB-40	ND	4.65			PCB-90	ND	5.77	C	101
PCB-41	ND	2.95	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	3.24	C	59	PCB-92	-	-	C084	84
PCB-43	ND	3.61	C	49	PCB-93	ND	3.44		
PCB-44	ND	4.16			PCB-94	ND	3.45		
PCB-45	ND	3.67			PCB-95	ND	3.28		
PCB-46	ND	3.87			PCB-96	ND	2.22		
PCB-47	ND	3.47			PCB-97	ND	6.89		
PCB-48	ND	2.86	C	75	PCB-98	ND	3.18	C	102
PCB-49	-	-	C043	43	PCB-99	ND	5.06		
PCB-50	ND	3.05			PCB-100	ND	2.82		

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EPA Method 1668
PCBs

FAL ID: 12512-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-8-6-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-06-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	4.74		
PCB-102	-	-	C098	98	PCB-152	ND	1.85		
PCB-103	ND	2.81			PCB-153	ND	3.85		
PCB-104	ND	2.05			PCB-154	ND	2.28		
PCB-105	ND	4.76			PCB-155	ND	1.74		
PCB-106	ND	4.51	C	118	PCB-156	ND	3.59		
PCB-107	ND	4.78	C	108	PCB-157	ND	3.55		
PCB-108	-	-	C107	107	PCB-158	ND	3.30	C	160
PCB-109	ND	4.78			PCB-159	ND	3.26		
PCB-110	ND	4.63			PCB-160	-	-	C158	158
PCB-111	ND	4.33	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.36			PCB-163	-	-	C138	138/164
PCB-114	ND	4.96			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.55		
PCB-117	-	-	C087	87/125	PCB-167	ND	3.72		
PCB-118	-	-	C	106	PCB-168	ND	3.24		
PCB-119	ND	4.60			PCB-169	ND	3.32		
PCB-120	ND	4.47			PCB-170	ND	4.06		
PCB-121	ND	2.51			PCB-171	ND	3.68		
PCB-122	ND	4.79			PCB-172	ND	4.16		
PCB-123	ND	5.01			PCB-173	ND	4.20		
PCB-124	ND	4.95			PCB-174	ND	3.79		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.67		
PCB-126	ND	5.66			PCB-176	ND	2.66		
PCB-127	ND	5.04			PCB-177	ND	4.00		
PCB-128	ND	4.00	C	162	PCB-178	ND	3.96		
PCB-129	ND	5.26			PCB-179	ND	2.56		
PCB-130	ND	5.41			PCB-180	ND	4.03		
PCB-131	ND	5.05	C	133	PCB-181	ND	3.49		
PCB-132	ND	3.80	C	161	PCB-182	ND	3.30	C	187
PCB-133	-	-	C131	131	PCB-183	ND	3.43		
PCB-134	ND	5.03	C	143	PCB-184	ND	2.42		
PCB-135	ND	4.50			PCB-185	ND	3.76		
PCB-136	ND	1.88			PCB-186	ND	2.58		
PCB-137	ND	4.45			PCB-187	-	-	C182	182
PCB-138	ND	3.67	C	163/164	PCB-188	ND	3.07		
PCB-139	ND	4.05	C	149	PCB-189	ND	2.42		
PCB-140	ND	4.13			PCB-190	ND	3.00		
PCB-141	ND	4.48			PCB-191	ND	2.90		
PCB-142	ND	4.83			PCB-192	ND	3.05		
PCB-143	-	-	C134	134	PCB-193	ND	2.84		
PCB-144	ND	4.47			PCB-194	ND	2.57		
PCB-145	ND	1.78			PCB-195	ND	2.84		
PCB-146	ND	3.65	C	165	PCB-196	ND	3.43	C	203
PCB-147	ND	4.09			PCB-197	ND	2.61		
PCB-148	ND	2.50			PCB-198	ND	4.11		
PCB-149	-	-	C139	139	PCB-199	ND	3.69		
PCB-150	ND	1.82			PCB-200	ND	2.66		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12512-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-8-6-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-06-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.75		
PCB-202	ND	2.84		
PCB-203	-	-	C196	196
PCB-204	ND	2.77		
PCB-205	ND	2.07		
PCB-206	ND	2.71		
PCB-207	ND	2.00		
PCB-208	ND	1.83		
PCB-209	ND	1.86		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	77.7	5.00 - 145	
13C-PCB-3	78.2	5.00 - 145	
13C-PCB-4	81.9	5.00 - 145	
13C-PCB-15	87.3	5.00 - 145	
13C-PCB-19	83.7	5.00 - 145	
13C-PCB-37	77.7	5.00 - 145	
13C-PCB-54	85.9	5.00 - 145	
13C-PCB-77	80.2	10.0 - 145	
13C-PCB-81	79.6	10.0 - 145	
13C-PCB-104	88.3	10.0 - 145	
13C-PCB-105	82.2	10.0 - 145	
13C-PCB-114	85.8	10.0 - 145	
13C-PCB-118	85.8	10.0 - 145	
13C-PCB-123	89.0	10.0 - 145	
13C-PCB-126	84.3	10.0 - 145	
13C-PCB-155	91.5	10.0 - 145	
13C-PCB-156	83.6	10.0 - 145	
13C-PCB-157	84.3	10.0 - 145	
13C-PCB-167	84.3	10.0 - 145	
13C-PCB-169	91.4	10.0 - 145	
13C-PCB-188	87.6	10.0 - 145	
13C-PCB-189	89.2	10.0 - 145	
13C-PCB-202	88.4	10.0 - 145	
13C-PCB-205	88.1	10.0 - 145	
13C-PCB-206	87.0	10.0 - 145	
13C-PCB-208	80.8	10.0 - 145	
13C-PCB-209	87.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	94.4	5.00 - 145	
13C-PCB-111	90.1	10.0 - 145	
13C-PCB-178	95.2	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: 8/8/2019

Reviewed By: DPV

Date: 8/8/2019

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12512-001-OPR
Client ID: OPR
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-8-6-19
GC Column: DB1MS
Units: ng/ml

Acquired: 08-06-2019

Compound	% Recovery	QC Limits	Qual
PCB-1	103	60.0 - 135	
PCB-3	100	60.0 - 135	
PCB-4	90.0	60.0 - 135	
PCB-15	91.4	60.0 - 135	
PCB-19	98.2	60.0 - 135	
PCB-37	95.8	60.0 - 135	
PCB-54	99.4	60.0 - 135	
PCB-77	98.8	60.0 - 135	
PCB-81	90.8	60.0 - 135	
PCB-104	101	60.0 - 135	
PCB-105	88.8	60.0 - 135	
PCB-114	91.6	60.0 - 135	
PCB-118	100	60.0 - 135	
PCB-123	99.2	60.0 - 135	
PCB-126	93.6	60.0 - 135	
PCB-155	98.0	60.0 - 135	
PCB-156	91.0	60.0 - 135	
PCB-157	93.8	60.0 - 135	
PCB-167	95.6	60.0 - 135	
PCB-169	101	60.0 - 135	
PCB-188	99.8	60.0 - 135	
PCB-189	101	60.0 - 135	
PCB-202	107	60.0 - 135	
PCB-205	97.6	60.0 - 135	
PCB-206	99.2	60.0 - 135	
PCB-208	100	60.0 - 135	
PCB-209	97.8	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	83.7	15.0 - 145	
13C-PCB-3	86.4	15.0 - 145	
13C-PCB-4	88.7	15.0 - 145	
13C-PCB-15	96.1	15.0 - 145	
13C-PCB-19	92.7	15.0 - 145	
13C-PCB-37	82.1	15.0 - 145	
13C-PCB-54	89.9	15.0 - 145	
13C-PCB-77	85.3	40.0 - 145	
13C-PCB-81	84.8	40.0 - 145	
13C-PCB-104	93.8	40.0 - 145	
13C-PCB-105	90.0	40.0 - 145	
13C-PCB-114	93.0	40.0 - 145	
13C-PCB-118	92.5	40.0 - 145	
13C-PCB-123	97.4	40.0 - 145	
13C-PCB-126	87.8	40.0 - 145	
13C-PCB-155	102	40.0 - 145	
13C-PCB-156	87.8	40.0 - 145	
13C-PCB-157	90.5	40.0 - 145	
13C-PCB-167	92.1	40.0 - 145	
13C-PCB-169	88.2	40.0 - 145	
13C-PCB-188	97.0	40.0 - 145	
13C-PCB-189	92.5	40.0 - 145	
13C-PCB-202	97.2	40.0 - 145	
13C-PCB-205	97.4	40.0 - 145	
13C-PCB-206	99.9	40.0 - 145	
13C-PCB-208	97.8	40.0 - 145	
13C-PCB-209	101	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	98.3	15.0 - 145	
13C-PCB-111	95.2	40.0 - 145	
13C-PCB-178	101	40.0 - 145	

Analyst: [signature]

Date: 8/8/2019

Reviewed By: DPV

Date: 8/8/2019

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EPA Method 1668
PCBs

FAL ID: 12512-001-SA
Client ID: LDW-Y2-IN-ENR-CB-SSWI
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-6-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-06-2019
Total Conc: 58200

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.27			PCB-51	22.2	-		
PCB-2	ND	2.35			PCB-52	831	-	C	69
PCB-3	ND	2.46			PCB-53	76.4	-		
PCB-4	44.5	-			PCB-54	ND	2.40		
PCB-5	ND	7.64			PCB-55	40.8	-		
PCB-6	32.5	-			PCB-56	127	-	C	60
PCB-7	ND	7.35			PCB-57	ND	2.90		
PCB-8	71.8	-			PCB-58	ND	2.82		
PCB-9	ND	7.38			PCB-59	-	-	C042	42
PCB-10	ND	8.13			PCB-60	-	-	C056	56
PCB-11	39.4	-			PCB-61	310	-	C	70
PCB-12	ND	8.63			PCB-62	ND	2.56		
PCB-13	ND	9.10			PCB-63	15.5	-	J	
PCB-14	260	-			PCB-64	-	-	C041	41/71/72
PCB-15	34.0	-			PCB-65	ND	2.81		
PCB-16	62.4	-			PCB-66	270	-	C	76
PCB-17	117	-			PCB-67	15.4	-	J	
PCB-18	299	-			PCB-68	15.6	-	J	
PCB-19	39.2	-			PCB-69	-	-	C052	52
PCB-20	107	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	70.0	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	3.34			PCB-73	22.0	-		
PCB-24	22.0	-			PCB-74	130	-		
PCB-25	51.0	-			PCB-75	-	-	C048	48
PCB-26	103	-			PCB-76	-	-	C066	66
PCB-27	19.1	-	J		PCB-77	21.9	-		
PCB-28	219	-			PCB-78	2280	-		
PCB-29	ND	3.47			PCB-79	9.74	-	J	
PCB-30	ND	2.40			PCB-80	ND	2.39		
PCB-31	248	-			PCB-81	26.3	-		
PCB-32	79.5	-			PCB-82	63.4	-		
PCB-33	-	-	C020	20/21	PCB-83	38.5	-	C	112
PCB-34	ND	3.37			PCB-84	410	-	C	92
PCB-35	ND	3.98			PCB-85	90.8	-	C	116
PCB-36	632	-			PCB-86	ND	6.79		
PCB-37	37.6	-			PCB-87	224	-	C	117/125
PCB-38	ND	3.64			PCB-88	ND	2.01	C	91
PCB-39	ND	3.64			PCB-89	9.59	-	J	
PCB-40	53.8	-			PCB-90	652	-	C	101
PCB-41	280	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	135	-	C	59	PCB-92	-	-	C084	84
PCB-43	473	-	C	49	PCB-93	ND	2.26		
PCB-44	398	-			PCB-94	ND	2.27		
PCB-45	60.7	-			PCB-95	784	-		
PCB-46	25.1	-			PCB-96	8.23	-	J	
PCB-47	158	-			PCB-97	184	-		
PCB-48	78.6	-	C	75	PCB-98	ND	2.09	C	102
PCB-49	-	-	C043	43	PCB-99	278	-		
PCB-50	7.03	-	J		PCB-100	14.0	-	J	

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EPA Method 1668
PCBs

FAL ID: 12512-001-SA
Client ID: LDW-Y2-IN-ENR-CB-SSWI
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-6-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-06-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	131	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.81		
PCB-103	14.2	-	J		PCB-153	502	-		
PCB-104	2100	-			PCB-154	22.7	-		
PCB-105	121	-			PCB-155	3940	-		
PCB-106	380	-	C	118	PCB-156	30.1	-		
PCB-107	36.1	-	C	108	PCB-157	10.1	-	J	
PCB-108	-	-	C107	107	PCB-158	45.3	-	C	160
PCB-109	ND	4.72			PCB-159	8.47	-	J	
PCB-110	661	-			PCB-160	-	-	C158	158
PCB-111	13.5	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.29			PCB-163	-	-	C138	138/164
PCB-114	9.18	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.77		
PCB-117	-	-	C087	87/125	PCB-167	18.0	-	J	
PCB-118	-	-	C	106	PCB-168	ND	3.44		
PCB-119	21.4	-			PCB-169	ND	3.33		
PCB-120	ND	4.42			PCB-170	40.6	-		
PCB-121	4280	-			PCB-171	15.3	-	J	
PCB-122	ND	3.47			PCB-172	134	-		
PCB-123	9.06	-	J		PCB-173	ND	3.72		
PCB-124	21.4	-			PCB-174	50.8	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.25		
PCB-126	ND	4.40			PCB-176	9.41	-	J	
PCB-127	ND	3.64			PCB-177	34.7	-		
PCB-128	71.2	-	C	162	PCB-178	18.9	-	J	
PCB-129	22.9	-			PCB-179	34.4	-		
PCB-130	38.1	-			PCB-180	128	-		
PCB-131	16.9	-	C,J	133	PCB-181	7.80	-	J	
PCB-132	148	-	C	161	PCB-182	76.4	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	38.2	-		
PCB-134	37.7	-	C	143	PCB-184	5000	-		
PCB-135	84.8	-			PCB-185	8.46	-	J	
PCB-136	79.7	-			PCB-186	6.66	-	J	
PCB-137	23.7	-			PCB-187	-	-	C182	182
PCB-138	400	-	C	163/164	PCB-188	9.64	-	J	
PCB-139	418	-	C	149	PCB-189	ND	2.03		
PCB-140	ND	4.38			PCB-190	9.85	-	J	
PCB-141	75.6	-			PCB-191	ND	2.57		
PCB-142	12400	-			PCB-192	3960	-		
PCB-143	-	-	C134	134	PCB-193	9.16	-	J	
PCB-144	24.6	-			PCB-194	12.3	-	J	
PCB-145	ND	1.74			PCB-195	7.67	-	J	
PCB-146	115	-	C	165	PCB-196	20.1	-	C	203
PCB-147	17.5	-	J		PCB-197	56.4	-		
PCB-148	ND	2.45			PCB-198	ND	3.15		
PCB-149	-	-	C139	139	PCB-199	22.4	-		
PCB-150	ND	1.78			PCB-200	ND	2.04		

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EPA Method 1668
PCBs

FAL ID: 12512-001-SA
Client ID: LDW-Y2-IN-ENR-CB-SSWI
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-6-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-06-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.11		
PCB-202	7.49	-	J	
PCB-203	-	-	C196	196
PCB-204	10800	-		
PCB-205	ND	2.60		
PCB-206	5.74	-	J	
PCB-207	46.0	-		
PCB-208	4.76	-	J	
PCB-209	55.7	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	75.6	5.00 - 145	
13C-PCB-3	81.7	5.00 - 145	
13C-PCB-4	80.8	5.00 - 145	
13C-PCB-15	96.3	5.00 - 145	
13C-PCB-19	84.3	5.00 - 145	
13C-PCB-37	87.1	5.00 - 145	
13C-PCB-54	78.8	5.00 - 145	
13C-PCB-77	86.1	10.0 - 145	
13C-PCB-81	87.2	10.0 - 145	
13C-PCB-104	84.7	10.0 - 145	
13C-PCB-105	89.2	10.0 - 145	
13C-PCB-114	94.4	10.0 - 145	
13C-PCB-118	92.2	10.0 - 145	
13C-PCB-123	98.6	10.0 - 145	
13C-PCB-126	89.6	10.0 - 145	
13C-PCB-155	88.3	10.0 - 145	
13C-PCB-156	83.2	10.0 - 145	
13C-PCB-157	83.1	10.0 - 145	
13C-PCB-167	83.4	10.0 - 145	
13C-PCB-169	93.3	10.0 - 145	
13C-PCB-188	87.4	10.0 - 145	
13C-PCB-189	101	10.0 - 145	
13C-PCB-202	83.9	10.0 - 145	
13C-PCB-205	87.5	10.0 - 145	
13C-PCB-206	82.5	10.0 - 145	
13C-PCB-208	73.0	10.0 - 145	
13C-PCB-209	77.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	93.5	5.00 - 145	
13C-PCB-111	94.6	10.0 - 145	
13C-PCB-178	95.6	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: 8/8/2019

Reviewed By: DPV

Date: 8/8/2019

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EPA Method 1668
PCBs

FAL ID: 12512-004-SA
Client ID: LDW-Y2-IN-ENR-CE-SSWI
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-6-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-06-2019
Total Conc: 44400

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	5.31	-	J		PCB-51	16.3	-	J	
PCB-2	ND	1.98			PCB-52	837	-	C	69
PCB-3	ND	2.11			PCB-53	63.8	-		
PCB-4	45.3	-			PCB-54	ND	2.74		
PCB-5	ND	6.77			PCB-55	39.9	-		
PCB-6	27.0	-			PCB-56	118	-	C	60
PCB-7	ND	6.51			PCB-57	5.68	-	J	
PCB-8	64.0	-			PCB-58	ND	3.22		
PCB-9	ND	6.53			PCB-59	-	-	C042	42
PCB-10	ND	7.20			PCB-60	-	-	C056	56
PCB-11	25.1	-			PCB-61	312	-	C	70
PCB-12	ND	7.65			PCB-62	ND	2.93		
PCB-13	ND	8.06			PCB-63	12.3	-	J	
PCB-14	165	-			PCB-64	-	-	C041	41/71/72
PCB-15	31.6	-			PCB-65	ND	3.21		
PCB-16	55.3	-			PCB-66	265	-	C	76
PCB-17	86.1	-			PCB-67	13.0	-	J	
PCB-18	202	-			PCB-68	11.3	-	J	
PCB-19	24.0	-			PCB-69	-	-	C052	52
PCB-20	86.3	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	55.2	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	7.70			PCB-73	21.8	-		
PCB-24	14.1	-	J		PCB-74	128	-		
PCB-25	42.9	-			PCB-75	-	-	C048	48
PCB-26	85.7	-			PCB-76	-	-	C066	66
PCB-27	12.0	-	J		PCB-77	25.1	-		
PCB-28	193	-			PCB-78	1540	-		
PCB-29	ND	7.99			PCB-79	12.6	-	J	
PCB-30	ND	1.88			PCB-80	ND	2.73		
PCB-31	170	-			PCB-81	26.6	-		
PCB-32	45.8	-			PCB-82	75.7	-		
PCB-33	-	-	C020	20/21	PCB-83	40.0	-	C	112
PCB-34	ND	7.77			PCB-84	441	-	C	92
PCB-35	ND	9.16			PCB-85	104	-	C	116
PCB-36	386	-			PCB-86	ND	6.04		
PCB-37	32.0	-			PCB-87	278	-	C	117/125
PCB-38	ND	8.38			PCB-88	ND	1.39	C	91
PCB-39	ND	8.38			PCB-89	13.3	-	J	
PCB-40	41.6	-			PCB-90	812	-	C	101
PCB-41	260	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	111	-	C	59	PCB-92	-	-	C084	84
PCB-43	411	-	C	49	PCB-93	ND	1.56		
PCB-44	395	-			PCB-94	ND	1.57		
PCB-45	44.5	-			PCB-95	921	-		
PCB-46	18.0	-	J		PCB-96	7.07	-	J	
PCB-47	123	-			PCB-97	218	-		
PCB-48	64.0	-	C	75	PCB-98	ND	1.45	C	102
PCB-49	-	-	C043	43	PCB-99	320	-		
PCB-50	6.19	-	J		PCB-100	10.4	-	J	

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EPA Method 1668
PCBs

FAL ID: 12512-004-SA
Client ID: LDW-Y2-IN-ENR-CE-SSWI
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-6-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-06-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	133	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.72		
PCB-103	11.8	-	J		PCB-153	501	-		
PCB-104	1380	-			PCB-154	19.1	-	J	
PCB-105	157	-			PCB-155	2560	-		
PCB-106	474	-	C	118	PCB-156	32.9	-		
PCB-107	43.0	-	C	108	PCB-157	11.2	-	J	
PCB-108	-	-	C107	107	PCB-158	49.5	-	C	160
PCB-109	ND	4.20			PCB-159	8.87	-	J	
PCB-110	779	-			PCB-160	-	-	C158	158
PCB-111	15.7	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.71			PCB-163	-	-	C138	138/164
PCB-114	13.1	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.33		
PCB-117	-	-	C087	87/125	PCB-167	18.2	-	J	
PCB-118	-	-	C	106	PCB-168	ND	3.04		
PCB-119	22.9	-			PCB-169	ND	3.25		
PCB-120	ND	3.93			PCB-170	40.3	-		
PCB-121	2950	-			PCB-171	15.7	-	J	
PCB-122	7.34	-	J		PCB-172	104	-		
PCB-123	10.4	-	J		PCB-173	ND	3.08		
PCB-124	24.6	-			PCB-174	61.9	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	2.69		
PCB-126	ND	4.52			PCB-176	10.4	-	J	
PCB-127	ND	3.80			PCB-177	33.2	-		
PCB-128	73.4	-	C	162	PCB-178	17.9	-	J	
PCB-129	28.6	-			PCB-179	30.3	-		
PCB-130	39.4	-			PCB-180	108	-		
PCB-131	18.0	-	C,J	133	PCB-181	ND	2.56		
PCB-132	162	-	C	161	PCB-182	73.3	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	36.6	-		
PCB-134	44.0	-	C	143	PCB-184	3480	-		
PCB-135	94.3	-			PCB-185	ND	2.76		
PCB-136	87.3	-			PCB-186	ND	1.89		
PCB-137	29.1	-			PCB-187	-	-	C182	182
PCB-138	464	-	C	163/164	PCB-188	ND	2.32		
PCB-139	440	-	C	149	PCB-189	ND	1.71		
PCB-140	ND	3.87			PCB-190	10.4	-	J	
PCB-141	83.8	-			PCB-191	ND	2.12		
PCB-142	8930	-			PCB-192	2840	-		
PCB-143	-	-	C134	134	PCB-193	12.8	-	J	
PCB-144	27.6	-			PCB-194	11.8	-	J	
PCB-145	ND	1.66			PCB-195	4.96	-	J	
PCB-146	107	-	C	165	PCB-196	20.4	-	C	203
PCB-147	19.1	-	J		PCB-197	38.4	-		
PCB-148	ND	2.33			PCB-198	ND	2.79		
PCB-149	-	-	C139	139	PCB-199	16.9	-	J	
PCB-150	ND	1.69			PCB-200	ND	1.81		

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EPA Method 1668
PCBs

FAL ID: 12512-004-SA
Client ID: LDW-Y2-IN-ENR-CE-SSWI
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-6-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-06-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	1.87		
PCB-202	6.37	-	J	
PCB-203	-	-	C196	196
PCB-204	7440	-		
PCB-205	ND	1.77		
PCB-206	4.20	-	J	
PCB-207	29.1	-		
PCB-208	ND	1.83		
PCB-209	34.6	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	80.1	5.00 - 145	
13C-PCB-3	83.9	5.00 - 145	
13C-PCB-4	87.3	5.00 - 145	
13C-PCB-15	99.8	5.00 - 145	
13C-PCB-19	91.4	5.00 - 145	
13C-PCB-37	96.2	5.00 - 145	
13C-PCB-54	84.4	5.00 - 145	
13C-PCB-77	86.9	10.0 - 145	
13C-PCB-81	88.9	10.0 - 145	
13C-PCB-104	93.3	10.0 - 145	
13C-PCB-105	95.4	10.0 - 145	
13C-PCB-114	102	10.0 - 145	
13C-PCB-118	99.4	10.0 - 145	
13C-PCB-123	105	10.0 - 145	
13C-PCB-126	96.0	10.0 - 145	
13C-PCB-155	96.8	10.0 - 145	
13C-PCB-156	87.9	10.0 - 145	
13C-PCB-157	87.2	10.0 - 145	
13C-PCB-167	90.5	10.0 - 145	
13C-PCB-169	95.8	10.0 - 145	
13C-PCB-188	94.0	10.0 - 145	
13C-PCB-189	101	10.0 - 145	
13C-PCB-202	89.3	10.0 - 145	
13C-PCB-205	94.8	10.0 - 145	
13C-PCB-206	90.5	10.0 - 145	
13C-PCB-208	82.5	10.0 - 145	
13C-PCB-209	85.0	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	95.8	5.00 - 145	
13C-PCB-111	88.8	10.0 - 145	
13C-PCB-178	94.9	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: 8/8/2019

Reviewed By: DPV

Date: 8/8/2019

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EPA Method 1668
PCBs

FAL ID: 12512-006-SA
Client ID: LDW-Y2-SC-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-6-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-06-2019
Total Conc: 49600

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	1.82			PCB-51	76.0	-		
PCB-2	ND	1.89			PCB-52	887	-	C	69
PCB-3	ND	2.00			PCB-53	221	-		
PCB-4	83.2	-			PCB-54	8.05	-	J	
PCB-5	ND	6.75			PCB-55	45.1	-		
PCB-6	61.5	-			PCB-56	317	-	C	60
PCB-7	9.38	-	J		PCB-57	5.76	-	J	
PCB-8	277	-			PCB-58	ND	2.85		
PCB-9	17.3	-	J		PCB-59	-	-	C042	42
PCB-10	ND	7.18			PCB-60	-	-	C056	56
PCB-11	29.4	-			PCB-61	521	-	C	70
PCB-12	ND	7.62			PCB-62	ND	2.59		
PCB-13	ND	8.04			PCB-63	21.8	-		
PCB-14	234	-			PCB-64	-	-	C041	41/71/72
PCB-15	95.2	-			PCB-65	ND	2.84		
PCB-16	557	-			PCB-66	465	-	C	76
PCB-17	703	-			PCB-67	22.2	-		
PCB-18	1650	-			PCB-68	16.9	-	J	
PCB-19	123	-			PCB-69	-	-	C052	52
PCB-20	953	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	462	-			PCB-72	-	-	C041	41/64/71
PCB-23	4.63	-	J		PCB-73	17.9	-	J	
PCB-24	80.2	-			PCB-74	247	-		
PCB-25	143	-			PCB-75	-	-	C048	48
PCB-26	269	-			PCB-76	-	-	C066	66
PCB-27	61.5	-			PCB-77	29.6	-		
PCB-28	1230	-			PCB-78	1540	-		
PCB-29	15.7	-	J		PCB-79	7.26	-	J	
PCB-30	ND	1.90			PCB-80	ND	2.42		
PCB-31	1230	-			PCB-81	20.7	-		
PCB-32	445	-			PCB-82	43.1	-		
PCB-33	-	-	C020	20/21	PCB-83	21.2	-	C	112
PCB-34	7.49	-	J		PCB-84	246	-	C	92
PCB-35	17.9	-	J		PCB-85	58.4	-	C	116
PCB-36	510	-			PCB-86	ND	5.49		
PCB-37	202	-			PCB-87	130	-	C	117/125
PCB-38	5.94	-	J		PCB-88	ND	1.06	C	91
PCB-39	ND	2.05			PCB-89	11.1	-	J	
PCB-40	171	-			PCB-90	430	-	C	101
PCB-41	682	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	320	-	C	59	PCB-92	-	-	C084	84
PCB-43	687	-	C	49	PCB-93	ND	1.20		
PCB-44	780	-			PCB-94	5.13	-	J	
PCB-45	259	-			PCB-95	523	-		
PCB-46	109	-			PCB-96	7.65	-	J	
PCB-47	225	-			PCB-97	112	-		
PCB-48	217	-	C	75	PCB-98	ND	1.11	C	102
PCB-49	-	-	C043	43	PCB-99	169	-		
PCB-50	9.68	-	J		PCB-100	9.85	-	J	

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EPA Method 1668
PCBs

FAL ID: 12512-006-SA
Client ID: LDW-Y2-SC-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-6-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-06-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	105	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.18		
PCB-103	11.9	-	J		PCB-153	372	-		
PCB-104	1560	-			PCB-154	16.6	-	J	
PCB-105	85.6	-			PCB-155	2650	-		
PCB-106	238	-	C	118	PCB-156	18.7	-	J	
PCB-107	20.0	-	C	108	PCB-157	5.69	-	J	
PCB-108	-	-	C107	107	PCB-158	28.8	-	C	160
PCB-109	ND	3.82			PCB-159	9.86	-	J	
PCB-110	342	-			PCB-160	-	-	C158	158
PCB-111	7.42	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.28			PCB-163	-	-	C138	138/164
PCB-114	6.36	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	2.60		
PCB-117	-	-	C087	87/125	PCB-167	10.2	-	J	
PCB-118	-	-	C	106	PCB-168	ND	2.37		
PCB-119	13.4	-	J		PCB-169	ND	2.25		
PCB-120	ND	3.57			PCB-170	40.5	-		
PCB-121	2920	-			PCB-171	17.2	-	J	
PCB-122	4.22	-	J		PCB-172	92.4	-		
PCB-123	5.90	-	J		PCB-173	ND	2.95		
PCB-124	13.0	-	J		PCB-174	60.5	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	2.57		
PCB-126	ND	3.03			PCB-176	13.2	-	J	
PCB-127	ND	2.56			PCB-177	37.3	-		
PCB-128	38.6	-	C	162	PCB-178	18.8	-	J	
PCB-129	14.4	-	J		PCB-179	39.1	-		
PCB-130	22.6	-			PCB-180	109	-		
PCB-131	12.0	-	C,J	133	PCB-181	5.09	-	J	
PCB-132	98.5	-	C	161	PCB-182	86.6	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	42.9	-		
PCB-134	26.9	-	C	143	PCB-184	3200	-		
PCB-135	57.8	-			PCB-185	7.55	-	J	
PCB-136	70.1	-			PCB-186	ND	1.81		
PCB-137	12.1	-	J		PCB-187	-	-	C182	182
PCB-138	285	-	C	163/164	PCB-188	9.89	-	J	
PCB-139	341	-	C	149	PCB-189	ND	1.65		
PCB-140	4.64	-	J		PCB-190	12.3	-	J	
PCB-141	52.9	-			PCB-191	ND	2.03		
PCB-142	7770	-			PCB-192	2490	-		
PCB-143	-	-	C134	134	PCB-193	ND	1.99		
PCB-144	26.5	-			PCB-194	12.1	-	J	
PCB-145	ND	1.13			PCB-195	6.27	-	J	
PCB-146	65.9	-	C	165	PCB-196	23.0	-	C	203
PCB-147	8.92	-	J		PCB-197	36.3	-		
PCB-148	ND	1.59			PCB-198	ND	3.12		
PCB-149	-	-	C139	139	PCB-199	19.8	-	J	
PCB-150	ND	1.16			PCB-200	ND	2.02		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12512-006-SA
Client ID: LDW-Y2-SC-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-6-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-06-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.09		
PCB-202	5.84	-	J	
PCB-203	-	-	C196	196
PCB-204	6600	-		
PCB-205	ND	1.92		
PCB-206	ND	3.54		
PCB-207	28.0	-		
PCB-208	ND	2.48		
PCB-209	31.2	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	76.2	5.00 - 145	
13C-PCB-3	80.0	5.00 - 145	
13C-PCB-4	84.0	5.00 - 145	
13C-PCB-15	95.8	5.00 - 145	
13C-PCB-19	84.6	5.00 - 145	
13C-PCB-37	91.6	5.00 - 145	
13C-PCB-54	83.3	5.00 - 145	
13C-PCB-77	84.6	10.0 - 145	
13C-PCB-81	86.8	10.0 - 145	
13C-PCB-104	90.5	10.0 - 145	
13C-PCB-105	93.6	10.0 - 145	
13C-PCB-114	99.6	10.0 - 145	
13C-PCB-118	96.9	10.0 - 145	
13C-PCB-123	101	10.0 - 145	
13C-PCB-126	95.6	10.0 - 145	
13C-PCB-155	90.7	10.0 - 145	
13C-PCB-156	85.8	10.0 - 145	
13C-PCB-157	88.8	10.0 - 145	
13C-PCB-167	89.2	10.0 - 145	
13C-PCB-169	98.0	10.0 - 145	
13C-PCB-188	90.9	10.0 - 145	
13C-PCB-189	99.7	10.0 - 145	
13C-PCB-202	86.8	10.0 - 145	
13C-PCB-205	95.0	10.0 - 145	
13C-PCB-206	88.0	10.0 - 145	
13C-PCB-208	82.9	10.0 - 145	
13C-PCB-209	84.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	96.2	5.00 - 145	
13C-PCB-111	87.0	10.0 - 145	
13C-PCB-178	97.5	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: 8/8/2019

Reviewed By: DPV

Date: 8/8/2019

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EPA Method 1668
PCBs

FAL ID: 12512-007-SA
Client ID: LDW-Y2-SC-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-6-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-06-2019
Total Conc: 39500

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.11			PCB-51	51.2	-		
PCB-2	ND	2.24			PCB-52	711	-	C	69
PCB-3	ND	2.40			PCB-53	153	-		
PCB-4	87.9	-			PCB-54	4.94	-	J	
PCB-5	ND	8.13			PCB-55	38.2	-		
PCB-6	68.9	-			PCB-56	290	-	C	60
PCB-7	ND	7.83			PCB-57	4.55	-	J	
PCB-8	311	-			PCB-58	ND	2.18		
PCB-9	ND	7.86			PCB-59	-	-	C042	42
PCB-10	ND	8.66			PCB-60	-	-	C056	56
PCB-11	ND	9.63			PCB-61	475	-	C	70
PCB-12	ND	9.19			PCB-62	ND	1.98		
PCB-13	ND	9.69			PCB-63	20.5	-		
PCB-14	216	-			PCB-64	-	-	C041	41/71/72
PCB-15	59.9	-			PCB-65	ND	2.17		
PCB-16	283	-			PCB-66	423	-	C	76
PCB-17	404	-			PCB-67	21.2	-		
PCB-18	967	-			PCB-68	10.6	-	J	
PCB-19	110	-			PCB-69	-	-	C052	52
PCB-20	521	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	268	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.48			PCB-73	16.8	-	J	
PCB-24	46.3	-			PCB-74	220	-		
PCB-25	90.0	-			PCB-75	-	-	C048	48
PCB-26	153	-			PCB-76	-	-	C066	66
PCB-27	48.6	-			PCB-77	26.3	-		
PCB-28	775	-			PCB-78	1240	-		
PCB-29	8.17	-	J		PCB-79	7.95	-	J	
PCB-30	ND	2.35			PCB-80	ND	1.85		
PCB-31	661	-			PCB-81	21.1	-		
PCB-32	328	-			PCB-82	45.2	-		
PCB-33	-	-	C020	20/21	PCB-83	22.7	-	C	112
PCB-34	ND	4.53			PCB-84	250	-	C	92
PCB-35	12.7	-	J		PCB-85	60.6	-	C	116
PCB-36	365	-			PCB-86	7.14	-	J	
PCB-37	134	-			PCB-87	136	-	C	117/125
PCB-38	ND	4.88			PCB-88	ND	1.59	C	91
PCB-39	ND	4.88			PCB-89	10.1	-	J	
PCB-40	129	-			PCB-90	458	-	C	101
PCB-41	522	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	257	-	C	59	PCB-92	-	-	C084	84
PCB-43	568	-	C	49	PCB-93	ND	1.79		
PCB-44	583	-			PCB-94	4.20	-	J	
PCB-45	175	-			PCB-95	539	-		
PCB-46	73.0	-			PCB-96	8.42	-	J	
PCB-47	203	-			PCB-97	120	-		
PCB-48	151	-	C	75	PCB-98	ND	1.66	C	102
PCB-49	-	-	C043	43	PCB-99	170	-		
PCB-50	6.30	-	J		PCB-100	10.3	-	J	

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EPA Method 1668
PCBs

FAL ID: 12512-007-SA
Client ID: LDW-Y2-SC-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-6-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-06-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	118	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.80		
PCB-103	11.7	-	J		PCB-153	363	-		
PCB-104	1210	-			PCB-154	14.2	-	J	
PCB-105	85.7	-			PCB-155	1980	-		
PCB-106	230	-	C	118	PCB-156	18.7	-	J	
PCB-107	19.2	-	C,J	108	PCB-157	4.74	-	J	
PCB-108	-	-	C107,J	107	PCB-158	33.4	-	C	160
PCB-109	ND	3.72			PCB-159	8.00	-	J	
PCB-110	369	-			PCB-160	-	-	C158	158
PCB-111	6.38	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.17			PCB-163	-	-	C138	138/164
PCB-114	7.40	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	2.57		
PCB-117	-	-	C087	87/125	PCB-167	10.4	-	J	
PCB-118	-	-	C	106	PCB-168	ND	2.34		
PCB-119	12.8	-	J		PCB-169	ND	2.58		
PCB-120	ND	3.48			PCB-170	43.1	-		
PCB-121	2310	-			PCB-171	19.1	-	J	
PCB-122	ND	2.98			PCB-172	76.2	-		
PCB-123	5.70	-	J		PCB-173	ND	3.57		
PCB-124	11.9	-	J		PCB-174	61.9	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.11		
PCB-126	ND	3.59			PCB-176	13.3	-	J	
PCB-127	ND	3.13			PCB-177	40.9	-		
PCB-128	37.7	-	C	162	PCB-178	19.0	-	J	
PCB-129	13.4	-	J		PCB-179	38.8	-		
PCB-130	23.5	-			PCB-180	114	-		
PCB-131	11.6	-	C,J	133	PCB-181	ND	2.96		
PCB-132	107	-	C	161	PCB-182	86.0	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	47.1	-		
PCB-134	26.4	-	C	143	PCB-184	2630	-		
PCB-135	59.1	-			PCB-185	10.5	-	J	
PCB-136	69.3	-			PCB-186	ND	2.19		
PCB-137	14.3	-	J		PCB-187	-	-	C182	182
PCB-138	306	-	C	163/164	PCB-188	4.92	-	J	
PCB-139	355	-	C	149	PCB-189	ND	2.07		
PCB-140	6.85	-	J		PCB-190	9.73	-	J	
PCB-141	45.4	-			PCB-191	ND	2.46		
PCB-142	6650	-			PCB-192	2020	-		
PCB-143	-	-	C134	134	PCB-193	ND	2.41		
PCB-144	26.1	-			PCB-194	14.9	-	J	
PCB-145	ND	1.74			PCB-195	7.21	-	J	
PCB-146	79.0	-	C	165	PCB-196	23.1	-	C	203
PCB-147	8.62	-	J		PCB-197	32.0	-		
PCB-148	ND	2.44			PCB-198	ND	2.84		
PCB-149	-	-	C139	139	PCB-199	22.8	-		
PCB-150	ND	1.77			PCB-200	ND	1.84		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12512-007-SA
Client ID: LDW-Y2-SC-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-6-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-06-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	1.90		
PCB-202	7.24	-	J	
PCB-203	-	-	C196	196
PCB-204	5230	-		
PCB-205	ND	1.69		
PCB-206	5.44	-	J	
PCB-207	21.6	-		
PCB-208	ND	1.75		
PCB-209	23.1	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	80.5	5.00 - 145	
13C-PCB-3	81.5	5.00 - 145	
13C-PCB-4	84.4	5.00 - 145	
13C-PCB-15	98.3	5.00 - 145	
13C-PCB-19	88.1	5.00 - 145	
13C-PCB-37	95.8	5.00 - 145	
13C-PCB-54	85.6	5.00 - 145	
13C-PCB-77	84.4	10.0 - 145	
13C-PCB-81	88.0	10.0 - 145	
13C-PCB-104	90.3	10.0 - 145	
13C-PCB-105	95.1	10.0 - 145	
13C-PCB-114	99.3	10.0 - 145	
13C-PCB-118	99.8	10.0 - 145	
13C-PCB-123	105	10.0 - 145	
13C-PCB-126	95.1	10.0 - 145	
13C-PCB-155	101	10.0 - 145	
13C-PCB-156	85.3	10.0 - 145	
13C-PCB-157	88.9	10.0 - 145	
13C-PCB-167	86.8	10.0 - 145	
13C-PCB-169	98.2	10.0 - 145	
13C-PCB-188	94.1	10.0 - 145	
13C-PCB-189	98.0	10.0 - 145	
13C-PCB-202	84.8	10.0 - 145	
13C-PCB-205	92.8	10.0 - 145	
13C-PCB-206	88.1	10.0 - 145	
13C-PCB-208	85.9	10.0 - 145	
13C-PCB-209	85.6	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	94.2	5.00 - 145	
13C-PCB-111	86.1	10.0 - 145	
13C-PCB-178	92.9	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: 8/8/2019

Reviewed By: DPV

Date: 8/8/2019

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EPA Method 1668
PCBs

FAL ID: 12512-013-SA
Client ID: LDW-Y2-SC-ENR-CC-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-5-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-05-2019
Total Conc: 69300

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	6.55	-	J		PCB-51	127	-		
PCB-2	ND	2.69			PCB-52	1690	-	C	69
PCB-3	ND	2.86			PCB-53	399	-		
PCB-4	217	-			PCB-54	10.7	-	J	
PCB-5	ND	6.76			PCB-55	73.3	-		
PCB-6	136	-			PCB-56	768	-	C	60
PCB-7	33.1	-			PCB-57	11.0	-	J	
PCB-8	706	-			PCB-58	5.11	-	J	
PCB-9	43.6	-			PCB-59	-	-	C042	42
PCB-10	19.6	-	J		PCB-60	-	-	C056	56
PCB-11	46.1	-			PCB-61	1140	-	C	70
PCB-12	ND	7.28			PCB-62	ND	2.69		
PCB-13	ND	7.34			PCB-63	48.9	-		
PCB-14	325	-			PCB-64	-	-	C041	41/71/72
PCB-15	220	-			PCB-65	ND	2.87		
PCB-16	729	-			PCB-66	981	-	C	76
PCB-17	1060	-			PCB-67	50.8	-		
PCB-18	2470	-			PCB-68	19.6	-	J	
PCB-19	246	-			PCB-69	-	-	C052	52
PCB-20	1600	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	737	-			PCB-72	-	-	C041	41/64/71
PCB-23	7.55	-	J		PCB-73	39.4	-		
PCB-24	132	-			PCB-74	541	-		
PCB-25	245	-			PCB-75	-	-	C048	48
PCB-26	435	-			PCB-76	-	-	C066	66
PCB-27	100	-			PCB-77	64.9	-		
PCB-28	2040	-			PCB-78	1630	-		
PCB-29	25.3	-			PCB-79	11.5	-	J	
PCB-30	ND	2.57			PCB-80	ND	2.39		
PCB-31	2290	-			PCB-81	32.5	-		
PCB-32	752	-			PCB-82	110	-		
PCB-33	-	-	C020	20/21	PCB-83	43.4	-	C	112
PCB-34	11.6	-	J		PCB-84	434	-	C	92
PCB-35	26.2	-			PCB-85	127	-	C	116
PCB-36	492	-			PCB-86	13.6	-	J	
PCB-37	432	-			PCB-87	309	-	C	117/125
PCB-38	10.6	-	J		PCB-88	ND	1.48	C	91
PCB-39	ND	3.30			PCB-89	20.2	-		
PCB-40	317	-			PCB-90	909	-	C	101
PCB-41	1310	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	623	-	C	59	PCB-92	-	-	C084	84
PCB-43	1350	-	C	49	PCB-93	ND	1.53		
PCB-44	1500	-			PCB-94	8.83	-	J	
PCB-45	445	-			PCB-95	957	-		
PCB-46	171	-			PCB-96	15.9	-	J	
PCB-47	452	-			PCB-97	269	-		
PCB-48	415	-	C	75	PCB-98	ND	1.65	C	102
PCB-49	-	-	C043	43	PCB-99	384	-		
PCB-50	14.2	-	J		PCB-100	17.4	-	J	

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EPA Method 1668
PCBs

FAL ID: 12512-013-SA
Client ID: LDW-Y2-SC-ENR-CC-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-5-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-05-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	206	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.36		
PCB-103	23.7	-			PCB-153	525	-		
PCB-104	1830	-			PCB-154	26.3	-		
PCB-105	154	-			PCB-155	3030	-		
PCB-106	424	-	C	118	PCB-156	30.7	-		
PCB-107	33.1	-	C	108	PCB-157	9.68	-	J	
PCB-108	-	-	C107	107	PCB-158	41.3	-	C	160
PCB-109	ND	4.82			PCB-159	11.4	-	J	
PCB-110	824	-			PCB-160	-	-	C158	158
PCB-111	17.3	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.62			PCB-163	-	-	C138	138/164
PCB-114	12.1	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	2.30		
PCB-117	-	-	C087	87/125	PCB-167	15.5	-	J	
PCB-118	-	-	C	106	PCB-168	ND	2.20		
PCB-119	26.0	-			PCB-169	ND	2.37		
PCB-120	ND	4.71			PCB-170	69.3	-		
PCB-121	3590	-			PCB-171	24.6	-		
PCB-122	7.25	-	J		PCB-172	89.9	-		
PCB-123	10.0	-	J		PCB-173	ND	2.74		
PCB-124	20.7	-			PCB-174	96.3	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	2.46		
PCB-126	ND	3.57			PCB-176	18.2	-	J	
PCB-127	ND	3.43			PCB-177	58.2	-		
PCB-128	54.5	-	C	162	PCB-178	23.1	-		
PCB-129	19.6	-	J		PCB-179	57.8	-		
PCB-130	28.5	-			PCB-180	181	-		
PCB-131	17.8	-	C,J	133	PCB-181	ND	2.47		
PCB-132	143	-	C	161	PCB-182	123	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	62.4	-		
PCB-134	40.3	-	C	143	PCB-184	3330	-		
PCB-135	92.6	-			PCB-185	14.9	-	J	
PCB-136	128	-			PCB-186	ND	1.67		
PCB-137	20.1	-			PCB-187	-	-	C182	182
PCB-138	441	-	C	163/164	PCB-188	6.25	-	J	
PCB-139	525	-	C	149	PCB-189	ND	1.62		
PCB-140	5.00	-	J		PCB-190	16.5	-	J	
PCB-141	87.4	-			PCB-191	ND	1.91		
PCB-142	8710	-			PCB-192	2640	-		
PCB-143	-	-	C134	134	PCB-193	11.4	-	J	
PCB-144	38.0	-			PCB-194	23.0	-		
PCB-145	ND	1.45			PCB-195	9.54	-	J	
PCB-146	103	-	C	165	PCB-196	37.5	-	C	203
PCB-147	12.3	-	J		PCB-197	47.8	-		
PCB-148	ND	2.17			PCB-198	ND	2.87		
PCB-149	-	-	C139	139	PCB-199	39.7	-		
PCB-150	ND	1.34			PCB-200	ND	2.05		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12512-013-SA
Client ID: LDW-Y2-SC-ENR-CC-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-5-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-05-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.12		
PCB-202	11.0	-	J	
PCB-203	-	-	C196	196
PCB-204	7440	-		
PCB-205	ND	2.85		
PCB-206	7.69	-	J	
PCB-207	27.6	-		
PCB-208	ND	2.75		
PCB-209	34.4	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	84.9	5.00 - 145	
13C-PCB-3	88.9	5.00 - 145	
13C-PCB-4	82.5	5.00 - 145	
13C-PCB-15	89.8	5.00 - 145	
13C-PCB-19	87.5	5.00 - 145	
13C-PCB-37	94.3	5.00 - 145	
13C-PCB-54	86.0	5.00 - 145	
13C-PCB-77	95.7	10.0 - 145	
13C-PCB-81	104	10.0 - 145	
13C-PCB-104	91.3	10.0 - 145	
13C-PCB-105	94.2	10.0 - 145	
13C-PCB-114	105	10.0 - 145	
13C-PCB-118	101	10.0 - 145	
13C-PCB-123	99.9	10.0 - 145	
13C-PCB-126	105	10.0 - 145	
13C-PCB-155	92.0	10.0 - 145	
13C-PCB-156	102	10.0 - 145	
13C-PCB-157	102	10.0 - 145	
13C-PCB-167	101	10.0 - 145	
13C-PCB-169	112	10.0 - 145	
13C-PCB-188	116	10.0 - 145	
13C-PCB-189	112	10.0 - 145	
13C-PCB-202	93.1	10.0 - 145	
13C-PCB-205	94.4	10.0 - 145	
13C-PCB-206	92.3	10.0 - 145	
13C-PCB-208	90.7	10.0 - 145	
13C-PCB-209	89.8	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	96.3	5.00 - 145	
13C-PCB-111	106	10.0 - 145	
13C-PCB-178	94.3	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: 8/8/2019

Reviewed By: DPV

Date: 8/8/2019

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EPA Method 1668
PCBs

FAL ID: 12512-014-SA
Client ID: LDW-Y2-SC-ENR-CD-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-5-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-05-2019
Total Conc: 79300

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	9.23	-	J		PCB-51	128	-		
PCB-2	ND	1.87			PCB-52	1720	-	C	69
PCB-3	4.15	-	J		PCB-53	407	-		
PCB-4	251	-			PCB-54	11.5	-	J	
PCB-5	ND	7.78			PCB-55	84.6	-		
PCB-6	134	-			PCB-56	681	-	C	60
PCB-7	30.7	-			PCB-57	9.54	-	J	
PCB-8	716	-			PCB-58	6.02	-	J	
PCB-9	46.1	-			PCB-59	-	-	C042	42
PCB-10	29.9	-			PCB-60	-	-	C056	56
PCB-11	53.2	-			PCB-61	1160	-	C	70
PCB-12	15.6	-	J		PCB-62	ND	2.26		
PCB-13	16.5	-	J		PCB-63	45.5	-		
PCB-14	422	-			PCB-64	-	-	C041	41/71/72
PCB-15	248	-			PCB-65	ND	2.41		
PCB-16	815	-			PCB-66	1030	-	C	76
PCB-17	927	-			PCB-67	48.9	-		
PCB-18	2250	-			PCB-68	19.4	-	J	
PCB-19	308	-			PCB-69	-	-	C052	52
PCB-20	1130	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	563	-			PCB-72	-	-	C041	41/64/71
PCB-23	4.13	-	J		PCB-73	36.4	-		
PCB-24	138	-			PCB-74	535	-		
PCB-25	201	-			PCB-75	-	-	C048	48
PCB-26	338	-			PCB-76	-	-	C066	66
PCB-27	109	-			PCB-77	62.7	-		
PCB-28	1580	-			PCB-78	2050	-		
PCB-29	16.0	-	J		PCB-79	15.6	-	J	
PCB-30	ND	1.84			PCB-80	ND	2.01		
PCB-31	1750	-			PCB-81	28.8	-		
PCB-32	631	-			PCB-82	135	-		
PCB-33	-	-	C020	20/21	PCB-83	49.3	-	C	112
PCB-34	9.68	-	J		PCB-84	520	-	C	92
PCB-35	19.1	-	J		PCB-85	161	-	C	116
PCB-36	573	-			PCB-86	13.0	-	J	
PCB-37	322	-			PCB-87	378	-	C	117/125
PCB-38	10.1	-	J		PCB-88	ND	1.39	C	91
PCB-39	ND	2.23			PCB-89	20.5	-		
PCB-40	308	-			PCB-90	1120	-	C	101
PCB-41	1270	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	617	-	C	59	PCB-92	-	-	C084	84
PCB-43	1380	-	C	49	PCB-93	ND	1.43		
PCB-44	1480	-			PCB-94	9.15	-	J	
PCB-45	438	-			PCB-95	1180	-		
PCB-46	182	-			PCB-96	16.5	-	J	
PCB-47	480	-			PCB-97	348	-		
PCB-48	373	-	C	75	PCB-98	ND	1.55	C	102
PCB-49	-	-	C043	43	PCB-99	475	-		
PCB-50	12.5	-	J		PCB-100	20.1	-		

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EPA Method 1668
PCBs

FAL ID: 12512-014-SA
Client ID: LDW-Y2-SC-ENR-CD-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-5-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-05-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	279	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.24		
PCB-103	29.6	-			PCB-153	791	-		
PCB-104	1960	-			PCB-154	52.3	-		
PCB-105	207	-			PCB-155	3700	-		
PCB-106	582	-	C	118	PCB-156	42.8	-		
PCB-107	44.0	-	C	108	PCB-157	10.4	-	J	
PCB-108	-	-	C107	107	PCB-158	60.8	-	C	160
PCB-109	ND	3.22			PCB-159	12.7	-	J	
PCB-110	1030	-			PCB-160	-	-	C158	158
PCB-111	22.6	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	3.09			PCB-163	-	-	C138	138/164
PCB-114	16.0	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	2.64		
PCB-117	-	-	C087	87/125	PCB-167	18.6	-	J	
PCB-118	-	-	C	106	PCB-168	ND	2.53		
PCB-119	34.2	-			PCB-169	ND	2.86		
PCB-120	ND	3.15			PCB-170	107	-		
PCB-121	3960	-			PCB-171	40.8	-		
PCB-122	9.93	-	J		PCB-172	149	-		
PCB-123	13.0	-	J		PCB-173	ND	2.44		
PCB-124	29.9	-			PCB-174	156	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	2.19		
PCB-126	ND	3.42			PCB-176	29.0	-		
PCB-127	ND	3.06			PCB-177	93.2	-		
PCB-128	83.0	-	C	162	PCB-178	40.1	-		
PCB-129	30.1	-			PCB-179	98.2	-		
PCB-130	44.0	-			PCB-180	275	-		
PCB-131	26.0	-	C	133	PCB-181	ND	2.19		
PCB-132	237	-	C	161	PCB-182	218	-	C	187
PCB-133	-	-	C131	131	PCB-183	101	-		
PCB-134	57.8	-	C	143	PCB-184	4880	-		
PCB-135	140	-			PCB-185	22.3	-		
PCB-136	182	-			PCB-186	ND	1.48		
PCB-137	27.7	-			PCB-187	-	-	C182	182
PCB-138	658	-	C	163/164	PCB-188	10.6	-	J	
PCB-139	791	-	C	149	PCB-189	ND	1.38		
PCB-140	ND	3.08			PCB-190	24.4	-		
PCB-141	128	-			PCB-191	ND	1.69		
PCB-142	11000	-			PCB-192	3900	-		
PCB-143	-	-	C134	134	PCB-193	18.8	-	J	
PCB-144	53.0	-			PCB-194	30.8	-		
PCB-145	ND	1.32			PCB-195	16.0	-	J	
PCB-146	141	-	C	165	PCB-196	48.7	-	C	203
PCB-147	21.6	-			PCB-197	61.2	-		
PCB-148	ND	1.98			PCB-198	ND	2.67		
PCB-149	-	-	C139	139	PCB-199	52.9	-		
PCB-150	ND	1.22			PCB-200	ND	1.91		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12512-014-SA
Client ID: LDW-Y2-SC-ENR-CD-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-5-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-05-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	1.97		
PCB-202	15.5	-	J	
PCB-203	-	-	C196	196
PCB-204	9560	-		
PCB-205	3.36	-	J	
PCB-206	12.0	-	J	
PCB-207	37.9	-		
PCB-208	5.26	-	J	
PCB-209	43.3	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	86.7	5.00 - 145	
13C-PCB-3	86.8	5.00 - 145	
13C-PCB-4	80.5	5.00 - 145	
13C-PCB-15	89.1	5.00 - 145	
13C-PCB-19	86.8	5.00 - 145	
13C-PCB-37	87.8	5.00 - 145	
13C-PCB-54	77.3	5.00 - 145	
13C-PCB-77	81.6	10.0 - 145	
13C-PCB-81	91.1	10.0 - 145	
13C-PCB-104	86.3	10.0 - 145	
13C-PCB-105	88.0	10.0 - 145	
13C-PCB-114	96.4	10.0 - 145	
13C-PCB-118	92.2	10.0 - 145	
13C-PCB-123	93.0	10.0 - 145	
13C-PCB-126	90.7	10.0 - 145	
13C-PCB-155	76.9	10.0 - 145	
13C-PCB-156	92.2	10.0 - 145	
13C-PCB-157	89.3	10.0 - 145	
13C-PCB-167	91.1	10.0 - 145	
13C-PCB-169	92.2	10.0 - 145	
13C-PCB-188	86.6	10.0 - 145	
13C-PCB-189	89.5	10.0 - 145	
13C-PCB-202	84.1	10.0 - 145	
13C-PCB-205	88.6	10.0 - 145	
13C-PCB-206	84.2	10.0 - 145	
13C-PCB-208	87.5	10.0 - 145	
13C-PCB-209	82.0	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	88.9	5.00 - 145	
13C-PCB-111	93.5	10.0 - 145	
13C-PCB-178	91.7	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: 8/8/2019

Reviewed By: DPV

Date: 8/8/2019

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EPA Method 1668
PCBs

FAL ID: 12512-015-SA
Client ID: LDW-Y2-SC-ENR-CE-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-5-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-05-2019
Total Conc: 89000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	14.1	-	J		PCB-51	140	-		
PCB-2	ND	2.02			PCB-52	1860	-	C	69
PCB-3	5.86	-	J		PCB-53	448	-		
PCB-4	453	-			PCB-54	13.9	-	J	
PCB-5	ND	8.70			PCB-55	87.4	-		
PCB-6	265	-			PCB-56	652	-	C	60
PCB-7	57.3	-			PCB-57	10.8	-	J	
PCB-8	1420	-			PCB-58	5.73	-	J	
PCB-9	83.0	-			PCB-59	-	-	C042	42
PCB-10	34.5	-			PCB-60	-	-	C056	56
PCB-11	66.2	-			PCB-61	1190	-	C	70
PCB-12	21.7	-			PCB-62	ND	3.59		
PCB-13	21.0	-			PCB-63	46.7	-		
PCB-14	573	-			PCB-64	-	-	C041	41/71/72
PCB-15	372	-			PCB-65	ND	3.83		
PCB-16	1040	-			PCB-66	1100	-	C	76
PCB-17	1450	-			PCB-67	52.2	-		
PCB-18	3680	-			PCB-68	24.1	-		
PCB-19	487	-			PCB-69	-	-	C052	52
PCB-20	1400	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	667	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	2.60			PCB-73	36.9	-		
PCB-24	200	-			PCB-74	559	-		
PCB-25	234	-			PCB-75	-	-	C048	48
PCB-26	424	-			PCB-76	-	-	C066	66
PCB-27	148	-			PCB-77	67.3	-		
PCB-28	1920	-			PCB-78	2230	-		
PCB-29	20.8	-			PCB-79	13.8	-	J	
PCB-30	ND	1.82			PCB-80	ND	3.20		
PCB-31	2100	-			PCB-81	42.9	-		
PCB-32	1050	-			PCB-82	124	-		
PCB-33	-	-	C020	20/21	PCB-83	50.1	-	C	112
PCB-34	11.7	-	J		PCB-84	535	-	C	92
PCB-35	23.3	-			PCB-85	163	-	C	116
PCB-36	698	-			PCB-86	18.7	-	J	
PCB-37	351	-			PCB-87	393	-	C	117/125
PCB-38	12.4	-	J		PCB-88	ND	1.27	C	91
PCB-39	ND	2.72			PCB-89	19.1	-	J	
PCB-40	315	-			PCB-90	1150	-	C	101
PCB-41	1350	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	646	-	C	59	PCB-92	-	-	C084	84
PCB-43	1440	-	C	49	PCB-93	ND	1.31		
PCB-44	1550	-			PCB-94	10.5	-	J	
PCB-45	485	-			PCB-95	1290	-		
PCB-46	187	-			PCB-96	17.6	-	J	
PCB-47	486	-			PCB-97	348	-		
PCB-48	412	-	C	75	PCB-98	ND	1.41	C	102
PCB-49	-	-	C043	43	PCB-99	480	-		
PCB-50	15.9	-	J		PCB-100	20.1	-		

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EPA Method 1668
PCBs

FAL ID: 12512-015-SA
Client ID: LDW-Y2-SC-ENR-CE-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-5-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-05-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	303	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.76		
PCB-103	31.6	-			PCB-153	843	-		
PCB-104	2130	-			PCB-154	40.9	-		
PCB-105	210	-			PCB-155	3830	-		
PCB-106	578	-	C	118	PCB-156	45.7	-		
PCB-107	47.5	-	C	108	PCB-157	9.18	-	J	
PCB-108	-	-	C107	107	PCB-158	63.5	-	C	160
PCB-109	ND	4.43			PCB-159	14.1	-	J	
PCB-110	1050	-			PCB-160	-	-	C158	158
PCB-111	25.2	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.24			PCB-163	-	-	C138	138/164
PCB-114	16.1	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	2.53		
PCB-117	-	-	C087	87/125	PCB-167	22.0	-		
PCB-118	-	-	C	106	PCB-168	ND	2.42		
PCB-119	32.9	-			PCB-169	ND	2.58		
PCB-120	ND	4.33			PCB-170	115	-		
PCB-121	4360	-			PCB-171	47.1	-		
PCB-122	9.74	-	J		PCB-172	155	-		
PCB-123	14.7	-	J		PCB-173	ND	3.28		
PCB-124	29.8	-			PCB-174	160	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	2.94		
PCB-126	ND	3.68			PCB-176	31.3	-		
PCB-127	ND	3.15			PCB-177	99.7	-		
PCB-128	84.7	-	C	162	PCB-178	45.2	-		
PCB-129	30.1	-			PCB-179	111	-		
PCB-130	47.9	-			PCB-180	306	-		
PCB-131	27.7	-	C	133	PCB-181	8.24	-	J	
PCB-132	240	-	C	161	PCB-182	217	-	C	187
PCB-133	-	-	C131	131	PCB-183	112	-		
PCB-134	58.3	-	C	143	PCB-184	5330	-		
PCB-135	157	-			PCB-185	21.5	-		
PCB-136	203	-			PCB-186	6.65	-	J	
PCB-137	27.9	-			PCB-187	-	-	C182	182
PCB-138	682	-	C	163/164	PCB-188	9.39	-	J	
PCB-139	823	-	C	149	PCB-189	ND	2.05		
PCB-140	9.31	-	J		PCB-190	25.0	-		
PCB-141	138	-			PCB-191	ND	2.27		
PCB-142	12000	-			PCB-192	4220	-		
PCB-143	-	-	C134	134	PCB-193	25.5	-		
PCB-144	57.4	-			PCB-194	35.3	-		
PCB-145	ND	1.87			PCB-195	18.0	-	J	
PCB-146	172	-	C	165	PCB-196	59.7	-	C	203
PCB-147	22.3	-			PCB-197	58.3	-		
PCB-148	ND	2.81			PCB-198	ND	1.73		
PCB-149	-	-	C139	139	PCB-199	55.7	-		
PCB-150	ND	1.74			PCB-200	10.3	-	J	

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12512-015-SA
Client ID: LDW-Y2-SC-ENR-CE-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-5-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-05-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	1.27		
PCB-202	17.4	-	J	
PCB-203	-	-	C196	196
PCB-204	9700	-		
PCB-205	ND	2.72		
PCB-206	11.3	-	J	
PCB-207	41.8	-		
PCB-208	5.93	-	J	
PCB-209	45.1	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	85.2	5.00 - 145	
13C-PCB-3	86.2	5.00 - 145	
13C-PCB-4	81.4	5.00 - 145	
13C-PCB-15	89.8	5.00 - 145	
13C-PCB-19	88.9	5.00 - 145	
13C-PCB-37	90.5	5.00 - 145	
13C-PCB-54	80.4	5.00 - 145	
13C-PCB-77	88.1	10.0 - 145	
13C-PCB-81	91.8	10.0 - 145	
13C-PCB-104	89.0	10.0 - 145	
13C-PCB-105	93.2	10.0 - 145	
13C-PCB-114	102	10.0 - 145	
13C-PCB-118	97.3	10.0 - 145	
13C-PCB-123	97.9	10.0 - 145	
13C-PCB-126	94.2	10.0 - 145	
13C-PCB-155	78.0	10.0 - 145	
13C-PCB-156	94.6	10.0 - 145	
13C-PCB-157	93.1	10.0 - 145	
13C-PCB-167	95.5	10.0 - 145	
13C-PCB-169	95.8	10.0 - 145	
13C-PCB-188	91.1	10.0 - 145	
13C-PCB-189	87.8	10.0 - 145	
13C-PCB-202	87.7	10.0 - 145	
13C-PCB-205	90.1	10.0 - 145	
13C-PCB-206	87.6	10.0 - 145	
13C-PCB-208	88.0	10.0 - 145	
13C-PCB-209	84.6	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	91.9	5.00 - 145	
13C-PCB-111	102	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: 8/8/2019

Reviewed By: DPV

Date: 8/8/2019

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EPA Method 1668
PCBs

FAL ID: 12512-016-SA
Client ID: LDW-Y2-SC-ENR+AC-CA/AC-CD-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-5-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-05-2019
Total Conc: 45800

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	3.19	-	J		PCB-51	53.2	-		
PCB-2	ND	1.44			PCB-52	737	-	C	69
PCB-3	ND	1.53			PCB-53	155	-		
PCB-4	67.8	-			PCB-54	5.27	-	J	
PCB-5	ND	5.40			PCB-55	45.9	-		
PCB-6	48.5	-			PCB-56	283	-	C	60
PCB-7	10.8	-	J		PCB-57	6.22	-	J	
PCB-8	256	-			PCB-58	ND	2.24		
PCB-9	15.4	-	J		PCB-59	-	-	C042	42
PCB-10	7.15	-	J		PCB-60	-	-	C056	56
PCB-11	46.7	-			PCB-61	515	-	C	70
PCB-12	ND	5.81			PCB-62	ND	2.31		
PCB-13	ND	5.86			PCB-63	19.9	-	J	
PCB-14	479	-			PCB-64	-	-	C041	41/71/72
PCB-15	76.0	-			PCB-65	ND	2.47		
PCB-16	322	-			PCB-66	443	-	C	76
PCB-17	373	-			PCB-67	21.5	-		
PCB-18	932	-			PCB-68	13.6	-	J	
PCB-19	108	-			PCB-69	-	-	C052	52
PCB-20	449	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	219	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	2.24			PCB-73	19.0	-	J	
PCB-24	47.3	-			PCB-74	229	-		
PCB-25	74.2	-			PCB-75	-	-	C048	48
PCB-26	136	-			PCB-76	-	-	C066	66
PCB-27	41.4	-			PCB-77	26.3	-		
PCB-28	581	-			PCB-78	1610	-		
PCB-29	7.58	-	J		PCB-79	7.12	-	J	
PCB-30	ND	1.66			PCB-80	ND	2.06		
PCB-31	572	-			PCB-81	18.1	-	J	
PCB-32	256	-			PCB-82	54.5	-		
PCB-33	-	-	C020	20/21	PCB-83	23.6	-	C	112
PCB-34	4.50	-	J		PCB-84	229	-	C	92
PCB-35	9.13	-	J		PCB-85	66.7	-	C	116
PCB-36	545	-			PCB-86	8.88	-	J	
PCB-37	121	-			PCB-87	156	-	C	117/125
PCB-38	ND	2.29			PCB-88	ND	1.06	C	91
PCB-39	ND	2.35			PCB-89	7.49	-	J	
PCB-40	127	-			PCB-90	483	-	C	101
PCB-41	546	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	255	-	C	59	PCB-92	-	-	C084	84
PCB-43	575	-	C	49	PCB-93	ND	1.10		
PCB-44	616	-			PCB-94	4.55	-	J	
PCB-45	172	-			PCB-95	510	-		
PCB-46	67.6	-			PCB-96	7.58	-	J	
PCB-47	202	-			PCB-97	141	-		
PCB-48	157	-	C	75	PCB-98	ND	1.18	C	102
PCB-49	-	-	C043	43	PCB-99	199	-		
PCB-50	7.96	-	J		PCB-100	11.9	-	J	

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EPA Method 1668
PCBs

FAL ID: 12512-016-SA
Client ID: LDW-Y2-SC-ENR+AC-CA/AC-CD-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-5-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-05-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	120	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.75		
PCB-103	13.4	-	J		PCB-153	378	-		
PCB-104	1490	-			PCB-154	18.1	-	J	
PCB-105	85.2	-			PCB-155	2560	-		
PCB-106	241	-	C	118	PCB-156	19.9	-	J	
PCB-107	18.9	-	C,J	108	PCB-157	6.61	-	J	
PCB-108	-	-	C107,J	107	PCB-158	30.4	-	C	160
PCB-109	ND	4.76			PCB-159	8.09	-	J	
PCB-110	426	-			PCB-160	-	-	C158	158
PCB-111	8.09	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.56			PCB-163	-	-	C138	138/164
PCB-114	7.97	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	2.22		
PCB-117	-	-	C087	87/125	PCB-167	10.5	-	J	
PCB-118	-	-	C	106	PCB-168	ND	2.13		
PCB-119	14.8	-	J		PCB-169	ND	2.12		
PCB-120	ND	4.65			PCB-170	57.1	-		
PCB-121	2950	-			PCB-171	21.5	-		
PCB-122	4.15	-	J		PCB-172	107	-		
PCB-123	5.24	-	J		PCB-173	ND	3.25		
PCB-124	13.1	-	J		PCB-174	72.1	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	2.92		
PCB-126	ND	2.57			PCB-176	13.4	-	J	
PCB-127	ND	2.22			PCB-177	47.2	-		
PCB-128	37.6	-	C	162	PCB-178	20.9	-		
PCB-129	13.9	-	J		PCB-179	44.0	-		
PCB-130	18.2	-	J		PCB-180	156	-		
PCB-131	9.95	-	C,J	133	PCB-181	6.96	-	J	
PCB-132	90.1	-	C	161	PCB-182	101	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	56.5	-		
PCB-134	23.0	-	C	143	PCB-184	3430	-		
PCB-135	53.3	-			PCB-185	11.7	-	J	
PCB-136	83.5	-			PCB-186	ND	1.97		
PCB-137	13.1	-	J		PCB-187	-	-	C182	182
PCB-138	289	-	C	163/164	PCB-188	6.58	-	J	
PCB-139	334	-	C	149	PCB-189	ND	1.86		
PCB-140	ND	2.60			PCB-190	12.9	-	J	
PCB-141	55.7	-			PCB-191	ND	2.25		
PCB-142	7300	-			PCB-192	2950	-		
PCB-143	-	-	C134	134	PCB-193	11.7	-	J	
PCB-144	23.7	-			PCB-194	17.6	-	J	
PCB-145	ND	1.86			PCB-195	9.25	-	J	
PCB-146	69.0	-	C	165	PCB-196	26.2	-	C	203
PCB-147	8.94	-	J		PCB-197	42.2	-		
PCB-148	ND	2.80			PCB-198	ND	2.15		
PCB-149	-	-	C139	139	PCB-199	25.6	-		
PCB-150	ND	1.73			PCB-200	5.10	-	J	

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EPA Method 1668
PCBs

FAL ID: 12512-016-SA
Client ID: LDW-Y2-SC-ENR+AC-CA/AC-CD-S010
Matrix: Solvent
Batch No: X4993

Date Extracted: 08-02-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-5-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-05-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	1.59		
PCB-202	7.74	-	J	
PCB-203	-	-	C196	196
PCB-204	7000	-		
PCB-205	ND	1.86		
PCB-206	5.27	-	J	
PCB-207	26.5	-		
PCB-208	2.98	-	J	
PCB-209	30.5	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	88.6	5.00 - 145	
13C-PCB-3	90.4	5.00 - 145	
13C-PCB-4	81.7	5.00 - 145	
13C-PCB-15	93.6	5.00 - 145	
13C-PCB-19	88.3	5.00 - 145	
13C-PCB-37	89.8	5.00 - 145	
13C-PCB-54	77.4	5.00 - 145	
13C-PCB-77	84.7	10.0 - 145	
13C-PCB-81	90.1	10.0 - 145	
13C-PCB-104	86.0	10.0 - 145	
13C-PCB-105	94.4	10.0 - 145	
13C-PCB-114	98.0	10.0 - 145	
13C-PCB-118	91.3	10.0 - 145	
13C-PCB-123	96.7	10.0 - 145	
13C-PCB-126	95.5	10.0 - 145	
13C-PCB-155	78.8	10.0 - 145	
13C-PCB-156	100	10.0 - 145	
13C-PCB-157	95.6	10.0 - 145	
13C-PCB-167	96.1	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	87.2	10.0 - 145	
13C-PCB-189	96.5	10.0 - 145	
13C-PCB-202	89.5	10.0 - 145	
13C-PCB-205	89.7	10.0 - 145	
13C-PCB-206	83.1	10.0 - 145	
13C-PCB-208	92.4	10.0 - 145	
13C-PCB-209	82.4	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	83.4	5.00 - 145	
13C-PCB-111	93.9	10.0 - 145	
13C-PCB-178	90.6	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: 8/8/19

Reviewed By: DPV

Date: 8/8/19

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

FAL USE ONLY
Laboratory Project No.: 12512
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-IN-ENR-CB-SSW1	6-24-19	1341	hexane									✓			Process, do run on GC
2	LDW-Y2-IN-ENR-CC-SSW1	6-24-19	1350	hexane									✓			Process, do run on GC
3	LDW-Y2-IN-ENR-CD-SSW1	6-24-19	1356	hexane									✓			Process, do not run on GC
4	LDW-Y2-IN-ENR-CE-SSW1	6-24-19	1403	hexane									✓			Process, do not run on GC
5	LDW-Y2-SC-ENR+AC-CA-Solo	6-26-19	832	hexane									✓			Process, TBD run on GC
6	LDW-Y2-SC-ENR+AC-CB-Solo	6-26-19	844	hexane									✓			Process, TBD run on GC
7	LDW-Y2-SC-ENR+AC-CC-Solo	6-26-19	853	hexane									✓			Process, TBD run on GC
8	LDW-Y2-SC-ENR+AC-CD-Solo	6-26-19	901	hexane									✓			Process, TBD run on GC
9	LDW-Y2-SC-ENR+AC-CE-Solo	6-26-19	908	hexane									✓			Process, TBD run on GC
10	LDW-Y2-SC-ENR+AC-CF-Solo	6-26-19	917	hexane									✓			Process, TBD run on GC
11	LDW-Y2-SC-ENR-CA-Solo	6-26-19	956	hexane									✓			Process, TBD run on GC
12	LDW-Y2-SC-ENR-CB-Solo	6-26-19	1004	hexane									✓			Process, TBD run on GC
13	LDW-Y2-SC-ENR-CC-Solo	6-26-19	1015	hexane									✓			Process, TBD run on GC
14	LDW-Y2-SC-ENR-CD-Solo	6-26-19	1026	hexane									✓			Process, TBD run on GC
15	LDW-Y2-SC-ENR-CE-Solo	6-26-19	1040	hexane									✓			Process, TBD 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
Collin Ray Collin Ray	6/26/19	1412	Kathy Bop KZ Ap	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.

7755 5207 0076

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

Kathy Zipp

From: Brad Silverbush
Sent: Tuesday, July 09, 2019 1:35 PM
To: Kathy Zipp
Subject: FW: KC-ENR Pilot Study

Bradley B. Silverbush
Director of Operations
Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
916-934-0900
brads@frontieranalytical.com
www.frontieranalytical.com

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From: Gretchen Heavner [mailto:Gretchen.Heavner@floydsnider.com]
Sent: Tuesday, July 09, 2019 1:32 PM
To: Brad Silverbush
Cc: Thimsen, Crystal; Whitmus, Cliff
Subject: RE: KC-ENR Pilot Study

Brad,
Please proceed with analysis of the following samples. Please note that we have two sets of two samples that we would like you to make composites with before sampling (noted below). Let me know if you have any questions!

12510
1 LDW-Y2-SC-S010-TB
2 LDW-Y2-SU-S010-TB
3 LDW-Y2-IN-S010-TB
4 LDW-Y2-SU-ENR+AC-CA-S010
5 LDW-Y2-SU-ENR+AC-CB-S010
6 LDW-Y2-SU-ENR+AC-CC-S010
9 LDW-Y2-SU-ENR-CA-S010
10 LDW-Y2-SU-ENR-CB-S010
11 LDW-Y2-SU-ENR-CC-S010
14 LDW-Y2-SU-S010-LCB

15 LDW-Y2-IN-ENR+AC-CA-S010

12511

1 LDW-Y2-IN-ENR+AC-CB-S010
2 LDW-Y2-IN-ENR+AC-CC-S010
3 LDW-Y2-IN-ENR-CA-S010
4 LDW-Y2-IN-ENR-CB-S010
9 LDW-Y2-IN-ENR-CE-S010
10 LDW-Y2-IN-ENR+AC-CA-SSWI
11 LDW-Y2-IN-ENR+AC-CB-SSWI
12 LDW-Y2-IN-ENR+AC-CC-SSWI
15 LDW-Y2-IN-ENR-CA-SSWI

12512

1 LDW-Y2-IN-ENR-CB-SSWI
4 LDW-Y2-IN-ENR-CE-SSWI
Make a composite of the following two samples: LDW-Y2-SC-ENR+AC-CA-S010 (5) and LDW-Y2-SC-ENR+AC-CD-S010 (8)
6 LDW-Y2-SC-ENR+AC-CB-S010
7 LDW-Y2-SC-ENR+AC-CC-S010
13 LDW-Y2-SC-ENR-CC-S010
14 LDW-Y2-SC-ENR-CD-S010
15 LDW-Y2-SC-ENR-CE-S010

12513

Make a composite of the following two samples: LDW-Y2-SC-ENR+AC-CA-SSWI (1) and LDW-Y2-SC-ENR+AC-CD-SSWI (4)
2 LDW-Y2-SC-ENR+AC-CB-SSWI
3 LDW-Y2-SC-ENR+AC-CC-SSWI
8 LDW-Y2-SC-ENR-CC-SSWI
9 LDW-Y2-SC-ENR-CD-SSWI
10 LDW-Y2-SC-ENR-CE-SSWI

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

From: Brad Silverbush <brads@frontieranalytical.com>
Sent: Thursday, June 27, 2019 2:14 PM
To: Gretchen Heavner <Gretchen.Heavner@floydsnider.com>
Cc: Thimsen, Crystal <crystal.thimsen@woodplc.com>; Whitmus, Cliff <cliff.whitmus@woodplc.com>
Subject: RE: KC-ENR Pilot Study

Hi Gretchen,

Will do.

Thanks,
Brad

Bradley B. Silverbush

Director of Operations
Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
916-934-0900
brads@frontieranalytical.com
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From: Gretchen Heavner [mailto:Gretchen.Heavner@floydsnider.com]
Sent: Thursday, June 27, 2019 2:07 PM
To: Brad Silverbush
Cc: Thimsen, Crystal; Whitmus, Cliff
Subject: RE: KC-ENR Pilot Study

Brad,
Can you also hold off on starting any analyses on the samples you receive tomorrow until we give you the go ahead? We need the ok from the client.
Thanks!

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

From: Gretchen Heavner
Sent: Thursday, June 27, 2019 11:31 AM
To: 'Brad Silverbush (brads@frontieranalytical.com)' <brads@frontieranalytical.com>
Cc: Thimsen, Crystal <crystal.thimsen@woodplc.com>; Whitmus, Cliff <cliff.whitmus@woodplc.com>
Subject: KC-ENR Pilot Study

NO

~~Hi Brad,~~
~~The sample that we would like you to increase the injection amount as much as possible is:~~

~~LDW-Y2-SC-ENR+AC-CA-S010~~

~~Thanks, and let me know if you have any questions!~~

Gretchen Heavner, Ph.D.
FLOYD | SNIDER

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **12512**

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:	15
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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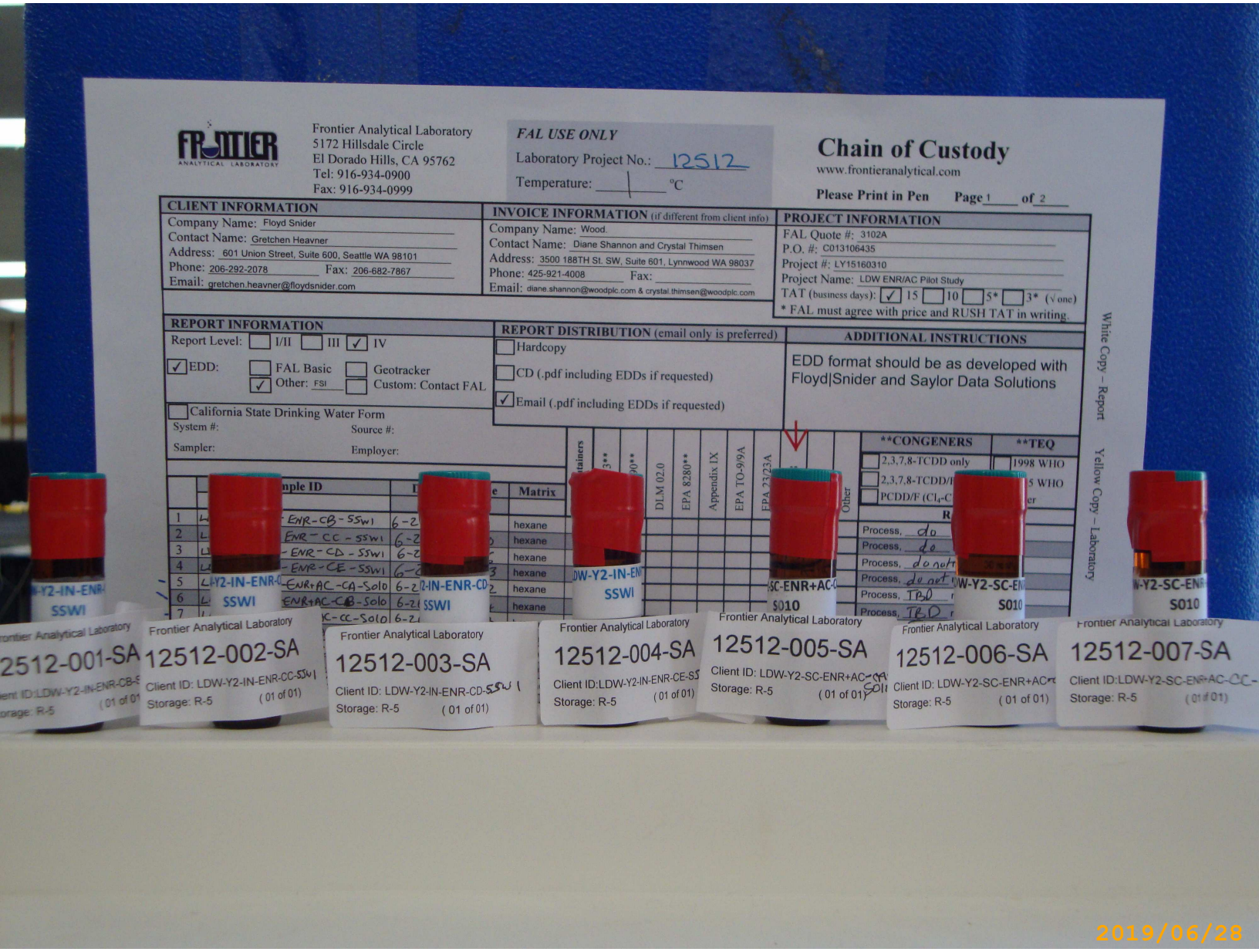
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Tel: 916-934-0900
Fax: 916-934-0999
FAL USE ONLY
Laboratory Project No.: 12512
Temperature: °C
Chain of Custody
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Page 1 of 2
CLIENT INFORMATION
Company Name: Floyd Snider
Contact Name: Gretchen Heavner
Address: 601 Union Street, Suite 600, Seattle WA 98101
Phone: 206-292-2078 Fax: 206-682-7867
Email: gretchen.heavner@floydsnider.com
INVOICE INFORMATION (if different from client info)
Company Name: Wood.
Contact Name: Diane Shannon and Crystal Thimsen
Address: 3500 188TH St. SW, Suite 601, Lynnwood WA 98037
Phone: 425-921-4008 Fax:
Email: diane.shannon@woodplc.com & crystal.thimsen@woodplc.com
PROJECT INFORMATION
FAL Quote #: 3102A
P.O. #: C013106435
Project #: LY15160310
Project Name: LDW ENR/AC Pilot Study
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
PCDD/F
**TEQ
1998 WHO
5 WHO
DLM 02.0
EPA 8280**
Appendix IX
EPA TO-9/9A
Other
Matrix
hexane
Process, do
Process, do not
Process, TBD
White Copy – Report
Yellow Copy – Laboratory
SSWI
S010
Frontier Analytical Laboratory
12512-001-SA
12512-002-SA
Client ID: LDW-Y2-IN-ENR-CC-SSWI
Storage: R-5
(01 of 01)
12512-003-SA
Client ID: LDW-Y2-IN-ENR-CD-SSWI
12512-004-SA
Client ID:LDW-Y2-IN-ENR-CE-SSWI
12512-005-SA
Client ID: LDW-Y2-SC-ENR+AC-CA-S010
12512-006-SA
Client ID: LDW-Y2-SC-ENR+AC-CB-S010
12512-007-SA
Client ID:LDW-Y2-SC-ENR+AC-CC-S010
2019/06/28

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PROJECT REQUEST SHEET

Project #:	12512	Sample #:	1 - 15	Client Manager:	BS
Client:	Floyd | Snider			Hold Time:	06/23/2020
Matrix:	Solvent	Extraction Batch:	4993	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: 12512
12512-12

Extract/s located in box: Knott Fun ~~"Hotter than Hades"~~ KC 8.5.19

Standards: 12512

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

7/11. Extract ALL Samples. Analyze the following samples: 1, 4, (5+8 comp), 6, 7, 13-15

L4 + Floyd Snider EDD

ALL Samples on hold.

Frontier Analytical Laboratory
EXTRACTION SHEET

Project #: 12512 Extraction Date: 2019-08-02 Extraction Chemist: KC

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 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
04993-001-0001-MB	(5.00mL)	NA	KC 8-2-19	NA	KC 8-2-19
04993-001-0001-OPR	(5.00mL)			KC 8-2-19	
12512-001-0001-SA	5.30 mL			NA	
12512-002-0001-SA	5.40 mL				
12512-003-0001-SA	5.10mL				
12512-004-0001-SA	5.40mL				
12512-006-0001-SA	5.50mL				
12512-007-0001-SA	5.40mL				
12512-009-0001-SA	5.60mL				
12512-010-0001-SA	5.60mL				
12512-011-0001-SA	5.50mL				
12512-012-0001-SA	5.50mL				
12512-013-0001-SA	5.40mL				
12512-014-0001-SA	5.40mL				
12512-015-0001-SA	5.30mL				
12512-016-0001-SA	10.10mL				

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:

- MB and OPR blank matrix = 5.00 mL Hexane.
- Sample volumes are approximate, measured with a 5mL pipett. KC 8-2-19
- Comped samples 12512-005-SA (5.40mL) and 12512-008-SA (4.70mL) to form 12512-016-SA

Frontier Analytical Laboratory
CLEANUP SHEET

Project #: 12512

Method/Analysis: EPA 1668 PCB

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

Sample ID	Cleanup 1 PCB-MS6 Chemist/Date	Cleanup 2 NA Chemist/Date	Cleanup 3 NA Chemist/Date	RS Amt: 10.0uL ID: 190723A Vial: 1 Chemist/Witness/Date
04993-001-0001-MB	KC 8-2-19	NA	NA	KC 8-5-19
04993-001-0001-OPR				
12512-001-0001-SA				
12512-002-0001-SA				
12512-003-0001-SA				
12512-004-0001-SA				
12512-006-0001-SA				
12512-007-0001-SA				
12512-009-0001-SA				
12512-010-0001-SA				
12512-011-0001-SA				
12512-012-0001-SA				
12512-013-0001-SA				
12512-014-0001-SA				
12512-015-0001-SA				
12512-016-0001-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: 04993-001-0001-MB Filename: 06AUG19Z Sam:4 Acquired: 6-AUG-19 11:12:36 ICal: DAILY209FAL4-8-6-19
Client ID: Method Blank ConCal: ST080619Z1 EndCal: ST080619Z2
Results: 12512 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	1.16	*		1450	1020	2.55	
13C-PCB-1	6.71e+07	3.26	y	14:32	0.90	7770					77.7
PCB-2	*	*	n	NotFnd	1.18	*		1450	1020	2.69	
PCB-3	*	*	n	NotFnd	1.17	*		1450	1020	2.88	
13C-PCB-3	6.67e+07	3.21	y	16:58	0.89	7820					78.2
PCB-4	*	*	n	NotFnd	1.21	*		759	5100	7.50	
PCB-10	*	*	n	NotFnd	1.31	*		759	5100	6.95	
13C-PCB-4	5.24e+07	1.58	y	18:11	0.67	8190					81.9
PCB-9	*	*	n	NotFnd	1.45	*		759	5100	6.30	
PCB-7	*	*	n	NotFnd	1.45	*		759	5100	6.28	
PCB-6	*	*	n	NotFnd	1.48	*		759	5100	6.16	
PCB-8	*	*	n	NotFnd	1.40	*		759	5100	6.53	
PCB-5	*	*	n	NotFnd	1.40	*		759	5100	6.53	
PCB-14	*	*	n	NotFnd	1.29	*		759	5100	7.07	
PCB-11	*	*	n	NotFnd	1.18	*		759	5100	7.73	
PCB-13	*	*	n	NotFnd	1.17	*		759	5100	7.77	
PCB-12	*	*	n	NotFnd	1.24	*		759	5100	7.37	
PCB-15	*	*	n	NotFnd	1.10	*		759	5100	8.27	
13C-PCB-15	7.40e+07	1.62	y	23:43	0.89	8730					87.3
PCB-19	*	*	n	NotFnd	1.18	*		1550	596	4.02	
PCB-30	*	*	n	NotFnd	1.71	*		1550	596	2.78	
PCB-18	*	*	n	NotFnd	1.12	*		1550	596	4.26	
PCB-17	*	*	n	NotFnd	1.24	*		1550	596	3.84	
PCB-27	*	*	n	NotFnd	1.63	*		1550	596	2.92	
PCB-24	*	*	n	NotFnd	1.56	*		1550	596	3.06	
PCB-16	*	*	n	NotFnd	1.31	*		1550	596	3.62	
PCB-32	*	*	n	NotFnd	1.43	*		1550	596	3.34	
13C-PCB-19	4.02e+07	1.08	y	22:04	0.50	8370					83.7
13C-PCB-9	9.57e+07	1.56	y	19:52	-	43.6					
PCB-34	*	*	n	NotFnd	1.29	*		1610	684	4.77	
PCB-23	*	*	n	NotFnd	1.31	*		1610	684	4.72	
PCB-29	*	*	n	NotFnd	1.26	*		1610	684	4.91	
PCB-26	*	*	n	NotFnd	1.29	*		1610	684	4.77	
PCB-25	*	*	n	NotFnd	1.28	*		1610	684	4.83	
PCB-31	*	*	n	NotFnd	1.28	*		1610	684	4.81	
PCB-28	*	*	n	NotFnd	1.52	*		1610	684	4.07	
PCB-20	*	*	n	NotFnd	1.26	*		1610	684	4.91	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.26	*		1610	684	4.91	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.26	*		1610	684	4.91	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.33	*		1610	684	4.63	
PCB-36	*	*	n	NotFnd	1.21	*		1610	684	5.09	
PCB-39	*	*	n	NotFnd	1.20	*		1610	684	5.14	
PCB-38	*	*	n	NotFnd	1.20	*		1610	684	5.14	
PCB-35	*	*	n	NotFnd	1.10	*		1610	684	5.62	
PCB-37	*	*	n	NotFnd	1.15	*		1610	684	5.36	
13C-PCB-37	4.76e+07	1.09	y	30:21	1.41	7770					77.7

FAL ID: 04993-001-0001-MB Filename: 06AUG19Z Sam:4 Acquired: 6-AUG-19 11:12:36 ICal: DAILY209FAL4-8-6-19
Client ID: Method Blank ConCal: ST080619Z1 EndCal: ST080619Z2
Results: 12512 GC Column: DB1MS Amount: 1.000

PCB-54	*	*	n	NotFnd	1.15	*	612	932	2.45	
PCB-50	*	*	n	NotFnd	0.93	*	612	932	3.05	
PCB-53	*	*	n	NotFnd	0.91	*	612	932	3.11	
PCB-51	*	*	n	NotFnd	0.91	*	612	932	3.09	
PCB-45	*	*	n	NotFnd	0.77	*	612	932	3.67	
PCB-46	*	*	n	NotFnd	0.73	*	612	932	3.87	
PCB-52	*	*	n	NotFnd	0.87	*	612	932	3.24	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	0.87	*	612	932	3.24	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.14	*	612	932	2.47	
PCB-43	*	*	n	NotFnd	0.78	*	612	932	3.61	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.78	*	612	932	3.61	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.81	*	612	932	3.47	
PCB-48	*	*	n	NotFnd	0.99	*	612	932	2.86	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	0.99	*	612	932	2.86	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*	612	932	2.86	
PCB-62	*	*	n	NotFnd	1.08	*	612	932	2.61	
PCB-44	*	*	n	NotFnd	0.68	*	612	932	4.16	
PCB-42	*	*	n	NotFnd	0.87	*	612	932	3.24	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.87	*	612	932	3.24	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	0.96	*	612	932	2.95	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	0.96	*	612	932	2.95	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	0.96	*	612	932	2.95	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	0.96	*	612	932	2.95	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	1.09	*	612	932	2.58	
PCB-40	*	*	n	NotFnd	0.61	*	612	932	4.65	
PCB-57	*	*	n	NotFnd	0.96	*	612	932	2.95	
PCB-67	*	*	n	NotFnd	0.98	*	612	932	2.87	
PCB-58	*	*	n	NotFnd	0.98	*	612	932	2.87	
PCB-63	*	*	n	NotFnd	0.96	*	612	932	2.93	
PCB-74	*	*	n	NotFnd	0.96	*	612	932	2.93	
PCB-61	*	*	n	NotFnd	0.92	*	612	932	3.06	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	0.92	*	612	932	3.06	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.00	*	612	932	2.81	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.00	*	612	932	2.81	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.16	*	612	932	2.44	
PCB-55	*	*	n	NotFnd	1.01	*	612	932	2.81	
13C-PCB-54	4.87e+07	0.83	y	25:36	1.31	8590				85.9
PCB-104	*	*	n	NotFnd	1.09	*	376	564	2.05	
PCB-96	*	*	n	NotFnd	1.01	*	376	564	2.22	
PCB-103	*	*	n	NotFnd	0.80	*	376	564	2.81	
PCB-100	*	*	n	NotFnd	0.79	*	376	564	2.82	
PCB-94	*	*	n	NotFnd	0.65	*	376	564	3.45	
PCB-98	*	*	n	NotFnd	0.70	*	376	564	3.18	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.70	*	376	564	3.18	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.68	*	376	564	3.28	
PCB-93	*	*	n	NotFnd	0.65	*	376	564	3.44	
PCB-88	*	*	n	NotFnd	0.73	*	376	564	3.05	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.73	*	376	564	3.05	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.89	*	376	564	2.51	
13C-PCB-104	4.02e+07	1.58	y	30:01	1.05	8830				88.3
13C-PCB-28	7.43e+07	1.05	y	26:40	1.82	9440				94.4
13C-PCB-52	4.34e+07	0.80	y	28:55	-	45.9				

PCB-56	*	*	n	NotFnd	1.12	*	500	868	3.91	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.12	*	500	868	3.91	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.14	*	500	868	3.85	
PCB-78	*	*	n	NotFnd	1.11	*	500	868	3.95	
PCB-81	*	*	n	NotFnd	1.21	*	500	868	3.56	
13C-PCB-81	3.63e+07	0.78	y	36:06	1.53	7960				79.6
PCB-77	*	*	n	NotFnd	1.04	*	500	868	4.27	
13C-PCB-77	3.79e+07	0.78	y	36:40	1.58	8020				80.2
PCB-155	*	*	n	NotFnd	1.03	*	312	344	1.74	
PCB-150	*	*	n	NotFnd	0.99	*	312	344	1.82	
PCB-152	*	*	n	NotFnd	0.97	*	312	344	1.85	
PCB-145	*	*	n	NotFnd	1.01	*	312	344	1.78	
PCB-136	*	*	n	NotFnd	0.96	*	312	344	1.88	
PCB-148	*	*	n	NotFnd	0.72	*	312	344	2.50	
PCB-154	*	*	n	NotFnd	0.79	*	312	344	2.28	
13C-PCB-155	3.61e+07	1.27	y	34:10	1.32	9150				91.5
13C-PCB-111	3.27e+07	1.62	y	36:15	1.22	9010				90.1
13C-PCB-101	2.98e+07	1.62	y	34:37	-	41.4				
PCB-84	*	*	n	NotFnd	0.75	*	776	688	6.72	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.75	*	776	688	6.72	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.78	*	776	688	6.47	
PCB-90	*	*	n	NotFnd	0.88	*	776	688	5.77	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.88	*	776	688	5.77	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.94	*	776	688	5.36	
PCB-99	*	*	n	NotFnd	1.00	*	776	688	5.06	
PCB-119	*	*	n	NotFnd	1.10	*	776	688	4.60	
PCB-83	*	*	n	NotFnd	0.87	*	776	688	5.82	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.87	*	776	688	5.82	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.06	*	776	688	4.78	
PCB-97	*	*	n	NotFnd	0.73	*	776	688	6.89	
PCB-86	*	*	n	NotFnd	0.73	*	776	688	6.88	
PCB-125	*	*	n	NotFnd	0.97	*	776	688	5.19	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.97	*	776	688	5.19	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.97	*	776	688	5.19	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.17	*	776	688	4.33	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.17	*	776	688	4.33	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.90	*	776	688	5.59	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.90	*	776	688	5.59	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.13	*	776	688	4.47	
PCB-110	*	*	n	NotFnd	1.09	*	776	688	4.63	
PCB-82	*	*	n	NotFnd	0.63	*	776	688	8.03	
PCB-124	*	*	n	NotFnd	1.06	*	496	1020	4.95	
PCB-108	*	*	n	NotFnd	1.09	*	496	1020	4.78	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.09	*	496	1020	4.78	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.05	*	496	1020	5.01	
13C-PCB-123	3.12e+07	1.55	y	38:18	1.27	8900				89.0
PCB-118	*	*	n	NotFnd	1.05	*	496	1020	4.51	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.05	*	496	1020	4.51	Co-elute PCB 118
13C-PCB-118	3.42e+07	1.61	y	38:28	1.44	8580				85.8
PCB-114	*	*	n	NotFnd	1.11	*	496	1020	4.96	
13C-PCB-114	3.21e+07	1.58	y	39:04	1.35	8580				85.8
PCB-122	*	*	n	NotFnd	1.09	*	496	1020	4.79	
PCB-105	*	*	n	NotFnd	1.14	*	496	1020	4.76	
13C-PCB-105	3.11e+07	1.57	y	39:53	1.37	8220				82.2

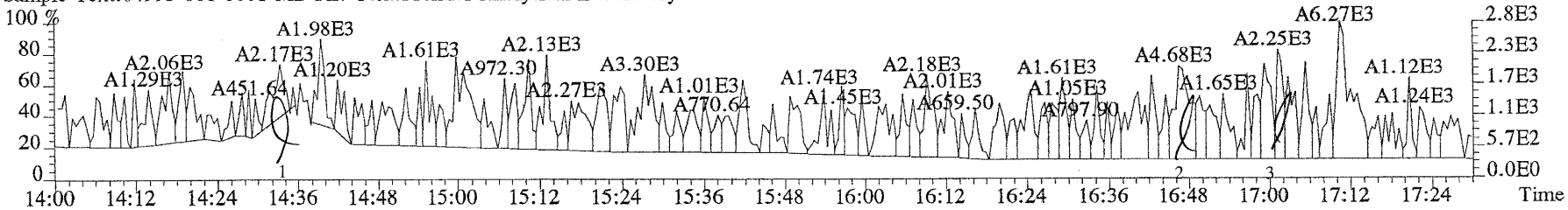
PCB-127	*	*	n	NotFnd	1.04	*	496	1020	5.04	
PCB-126	*	*	n	NotFnd	1.09	*	496	1020	5.66	
13C-PCB-126	2.94e+07	1.59	y	42:02	1.26	8430				84.3
PCB-151	*	*	n	NotFnd	0.84	*	560	468	4.74	
PCB-135	*	*	n	NotFnd	0.88	*	560	468	4.50	
PCB-144	*	*	n	NotFnd	0.89	*	560	468	4.47	
PCB-147	*	*	n	NotFnd	0.97	*	560	468	4.09	
PCB-139	*	*	n	NotFnd	0.98	*	560	468	4.05	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	0.98	*	560	468	4.05	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.96	*	560	468	4.13	
PCB-143	*	*	n	NotFnd	0.79	*	560	468	5.03	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.79	*	560	468	5.03	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.79	*	560	468	5.05	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.79	*	560	468	5.05	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.82	*	560	468	4.83	
PCB-165	*	*	n	NotFnd	1.09	*	560	468	3.65	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.09	*	560	468	3.65	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	1.04	*	560	468	3.80	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	1.04	*	560	468	3.80	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	1.03	*	560	468	3.85	
PCB-168	*	*	n	NotFnd	1.23	*	560	468	3.24	
PCB-141	*	*	n	NotFnd	0.89	*	560	468	4.48	
PCB-137	*	*	n	NotFnd	0.89	*	560	468	4.45	
PCB-130	*	*	n	NotFnd	0.73	*	560	468	5.41	
PCB-138	*	*	n	NotFnd	1.08	*	560	468	3.67	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.08	*	560	468	3.67	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.08	*	560	468	3.67	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.20	*	560	468	3.30	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.20	*	560	468	3.30	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.76	*	560	468	5.26	
PCB-166	*	*	n	NotFnd	1.12	*	560	468	3.55	
PCB-159	*	*	n	NotFnd	1.22	*	560	468	3.26	
PCB-128	*	*	n	NotFnd	0.99	*	560	468	4.00	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	0.99	*	560	468	4.00	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	1.10	*	560	468	3.72	
13C-PCB-167	2.74e+07	1.30	y	43:22	1.18	8430				84.3
PCB-156	*	*	n	NotFnd	1.18	*	560	468	3.59	
13C-PCB-156	2.66e+07	1.29	y	44:36	1.15	8360				83.6
PCB-157	*	*	n	NotFnd	1.12	*	560	468	3.55	
13C-PCB-157	2.74e+07	1.30	y	44:51	1.18	8430				84.3
PCB-169	*	*	n	NotFnd	1.08	*	560	468	3.32	
13C-PCB-169	2.67e+07	1.30	y	46:43	1.06	9140				91.4

FAL ID: 04993-001-0001-MB Filename: 06AUG19Z Sam:4 Acquired: 6-AUG-19 11:12:36 ICal: DAILY209FAL4-8-6-19
Client ID: Method Blank ConCal: ST08061921 EndCal: ST08061922
Results: 12512 GC Column: DB1MS Amount: 1.000

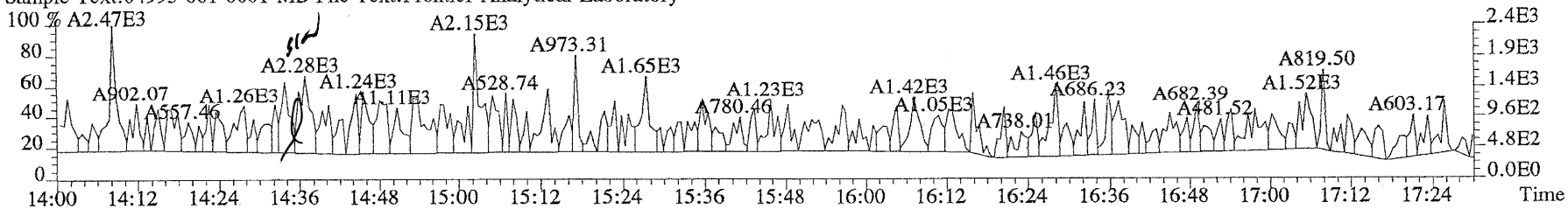
PCB-188	*	*	n	NotFnd	1.02	*		564	240	3.07	
13C-PCB-188	2.88e+07	1.07	y	39:40	1.19	8760					87.6
PCB-184	*	*	n	NotFnd	1.15	*		564	240	2.42	
PCB-179	*	*	n	NotFnd	1.09	*		564	240	2.56	
PCB-176	*	*	n	NotFnd	1.05	*		564	240	2.66	
PCB-186	*	*	n	NotFnd	1.08	*		564	240	2.58	
PCB-178	*	*	n	NotFnd	0.70	*		564	240	3.96	
PCB-175	*	*	n	NotFnd	0.76	*		564	240	3.67	
PCB-187	*	*	n	NotFnd	0.84	*		564	240	3.30	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.84	*		564	240	3.30	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.81	*		564	240	3.43	
PCB-185	*	*	n	NotFnd	0.74	*		564	240	3.76	
PCB-174	*	*	n	NotFnd	0.74	*		564	240	3.79	
PCB-181	*	*	n	NotFnd	0.80	*		564	240	3.49	
PCB-177	*	*	n	NotFnd	0.70	*		564	240	4.00	
PCB-171	*	*	n	NotFnd	0.76	*		564	240	3.68	
PCB-173	*	*	n	NotFnd	0.66	*		564	240	4.20	
PCB-172	*	*	n	NotFnd	0.67	*		564	240	4.16	
PCB-192	*	*	n	NotFnd	0.91	*		564	240	3.05	
PCB-180	*	*	n	NotFnd	0.69	*		564	240	4.03	
PCB-193	*	*	n	NotFnd	0.98	*		564	240	2.84	
PCB-191	*	*	n	NotFnd	0.96	*		564	240	2.90	
PCB-170	*	*	n	NotFnd	0.69	*		564	240	4.06	
PCB-190	*	*	n	NotFnd	0.93	*		564	240	3.00	
PCB-189	*	*	n	NotFnd	0.98	*		564	240	2.42	
13C-PCB-189	2.48e+07	1.06	y	48:24	1.01	8920					89.2
PCB-202	*	*	n	NotFnd	1.00	*		260	396	2.84	
PCB-201	*	*	n	NotFnd	1.03	*		260	396	2.75	
PCB-204	*	*	n	NotFnd	1.02	*		260	396	2.77	
PCB-197	*	*	n	NotFnd	1.09	*		260	396	2.61	
PCB-200	*	*	n	NotFnd	1.07	*		260	396	2.66	
PCB-198	*	*	n	NotFnd	0.69	*		260	396	4.11	
PCB-199	*	*	n	NotFnd	0.77	*		260	396	3.69	
PCB-203	*	*	n	NotFnd	0.83	*		260	396	3.43	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.83	*		260	396	3.43	Co-elute PCB 203
13C-PCB-202	2.35e+07	0.91	y	44:46	0.96	8840					88.4
13C-PCB-178	2.03e+07	1.06	y	42:18	0.77	9520					95.2
13C-PCB-138	2.77e+07	1.30	y	41:30	-	39.6					
PCB-195	*	*	n	NotFnd	0.81	*		260	652	2.84	
PCB-194	*	*	n	NotFnd	0.89	*		260	652	2.57	
PCB-205	*	*	n	NotFnd	1.11	*		260	652	2.07	
13C-PCB-205	2.83e+07	0.90	y	50:03	1.26	8810					88.1
PCB-208	*	*	n	NotFnd	1.01	*		384	372	1.83	
13C-PCB-208	2.79e+07	0.80	y	49:07	1.35	8080					80.8
PCB-207	*	*	n	NotFnd	1.13	*		384	372	2.00	
PCB-206	*	*	n	NotFnd	1.04	*		384	372	2.71	
13C-PCB-206	2.06e+07	0.80	y	51:15	0.93	8700					87.0
PCB-209	*	*	n	NotFnd	1.10	*		360	356	1.86	
13C-PCB-209	2.65e+07	1.21	y	52:26	1.19	8730					87.3
13C-PCB-194	2.56e+07	0.92	y	49:48	-	43.1					

Analyst: _____ Date: 8/7/19

File:06AUG19Z #1-783 Acq: 6-AUG-2019 11:12:36 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:04993-001-0001-MB File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-783 Acq: 6-AUG-2019 11:12:36 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:04993-001-0001-MB File Text:Frontier Analytical Laboratory



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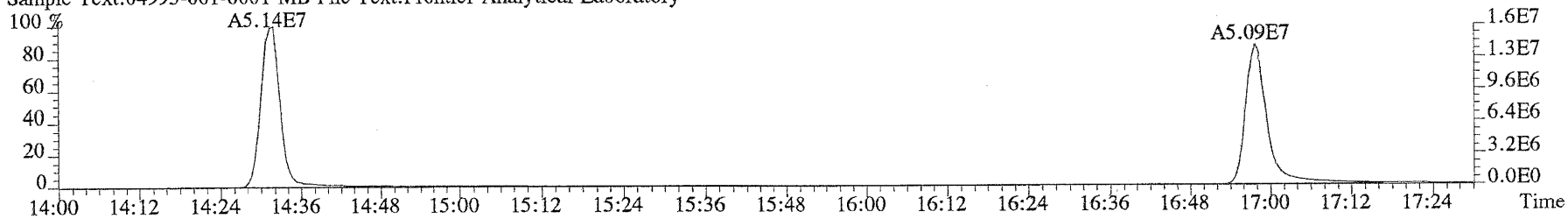
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



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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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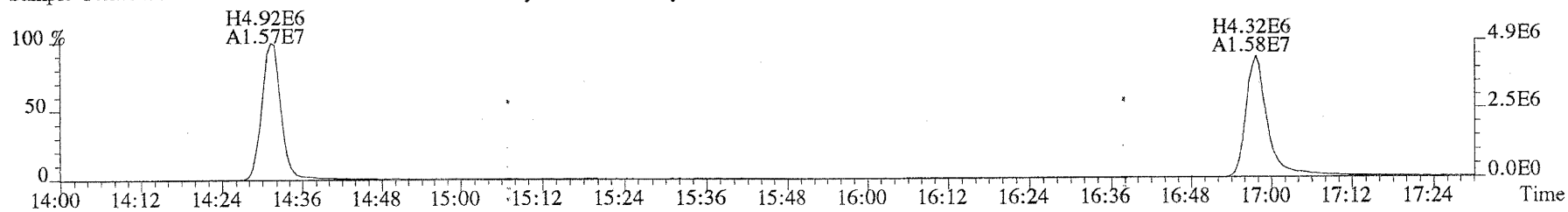
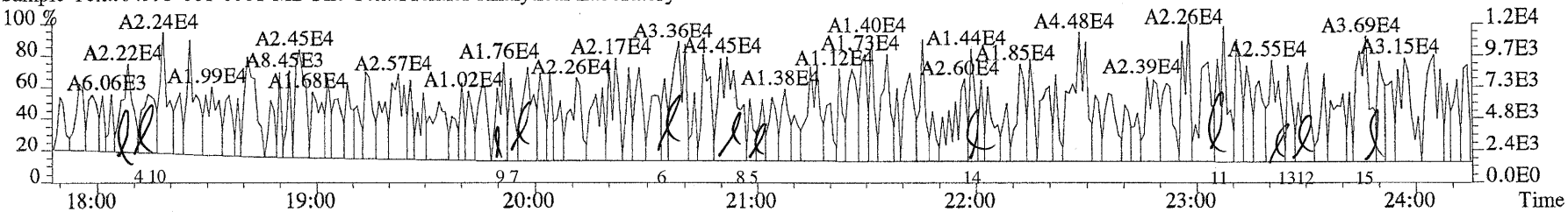
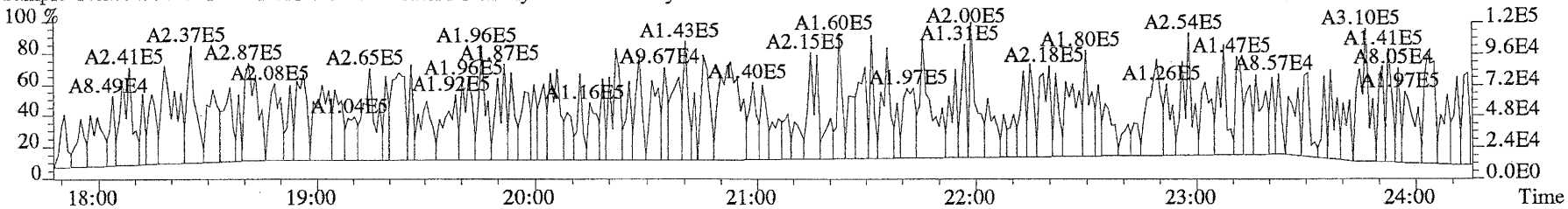


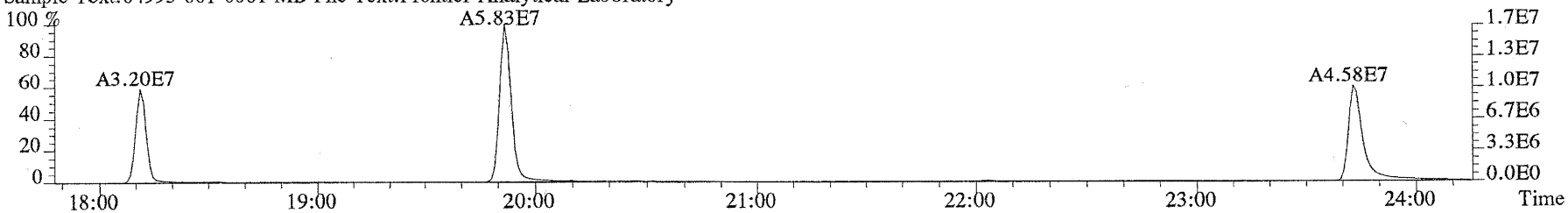
File:06AUG19Z #1-521 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-521 Acq: 6-AUG-2019 11:12:36 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
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-521 Acq: 6-AUG-2019 11:12:36 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:04993-001-0001-MB File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-521 Acq: 6-AUG-2019 11:12:36 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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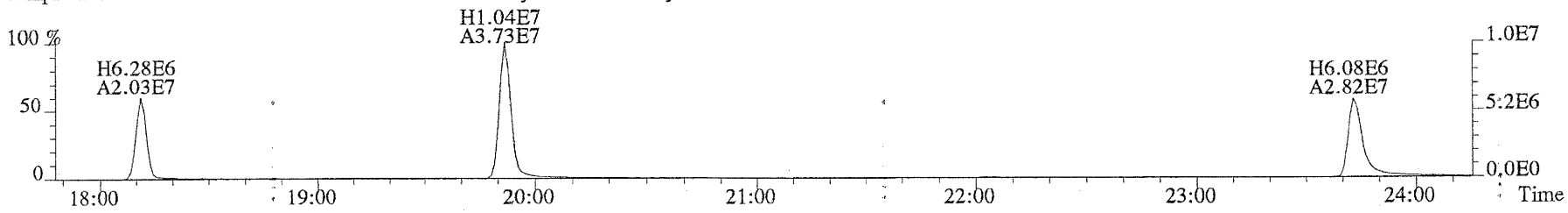
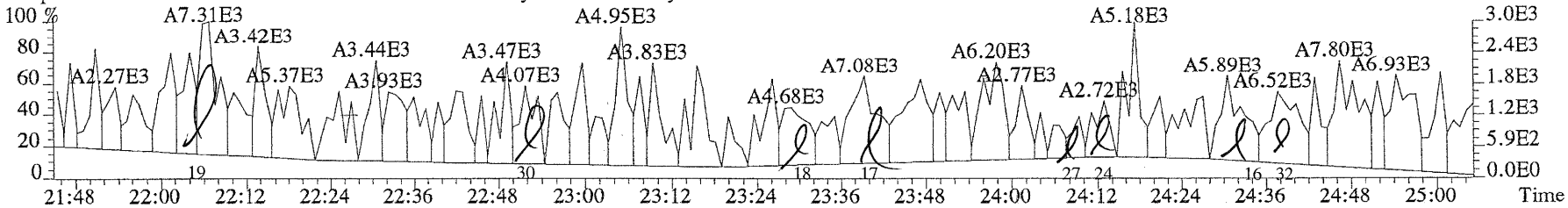
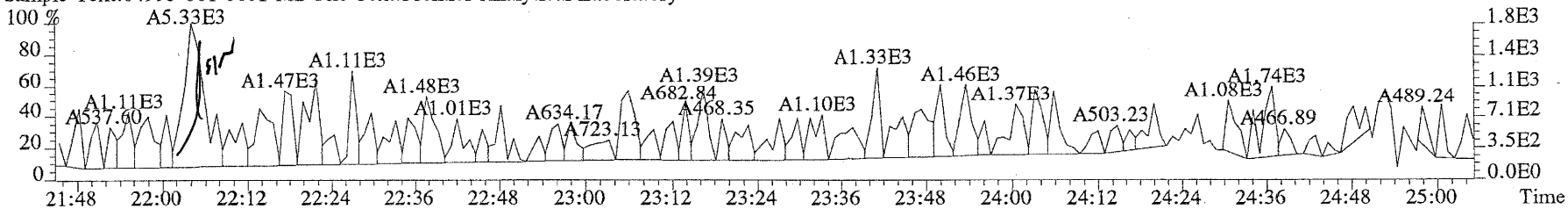


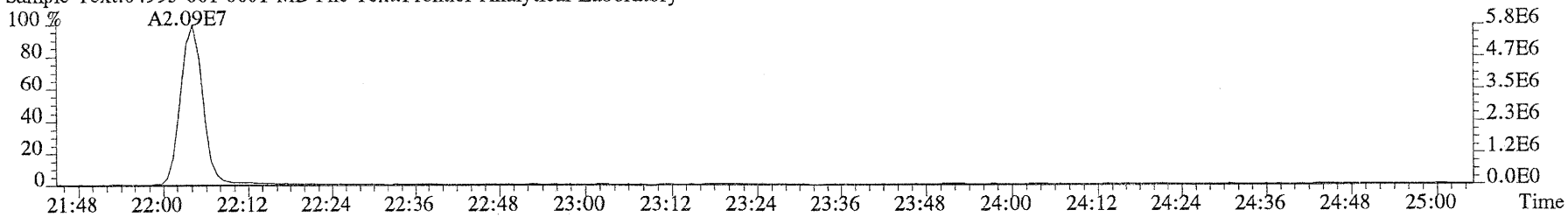
File:06AUG19Z #1-521 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



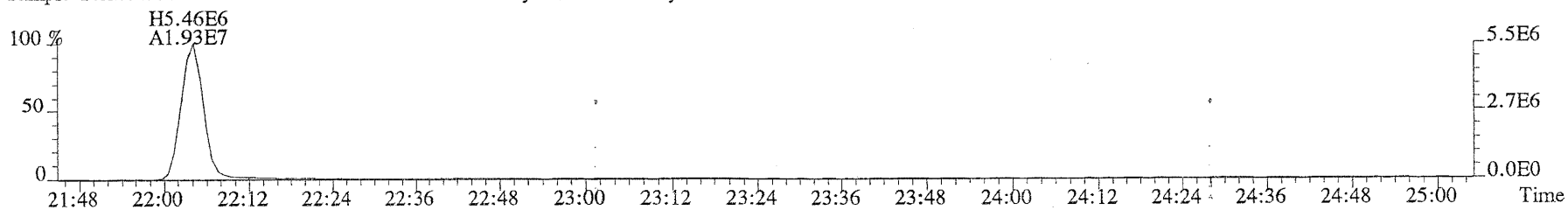
File:06AUG19Z #1-521 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



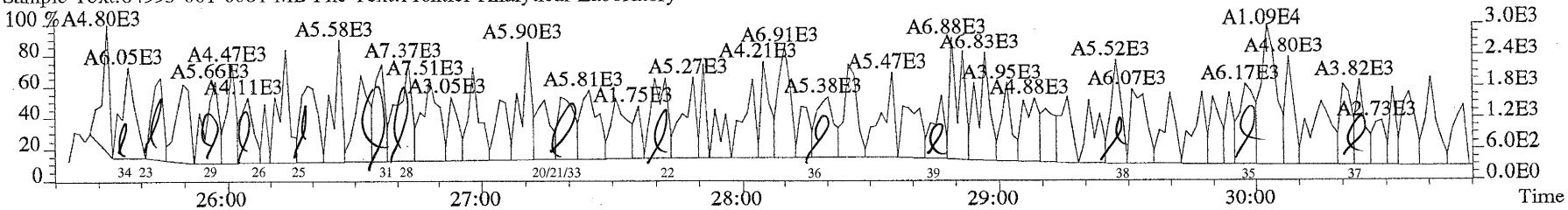
File:06AUG19Z #1-521 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



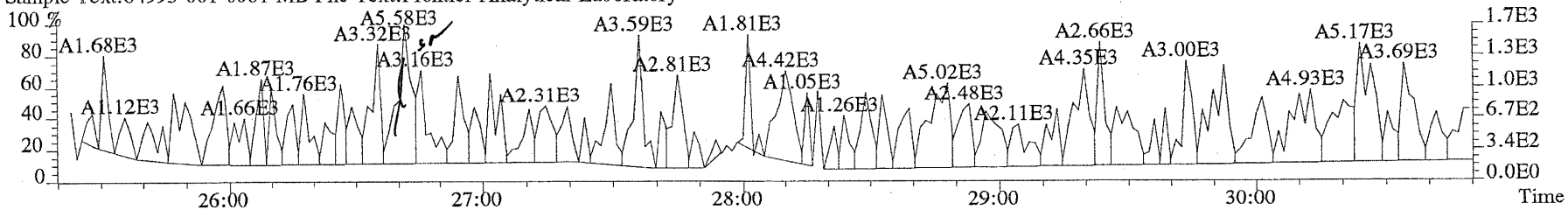
File:06AUG19Z #1-521 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



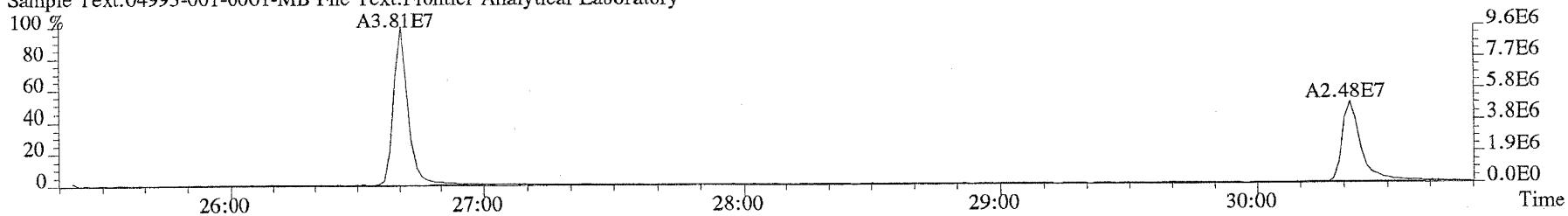
File:06AUG19Z #1-401 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-401 Acq: 6-AUG-2019 11:12:36 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:04993-001-0001-MB File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-401 Acq: 6-AUG-2019 11:12:36 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:04993-001-0001-MB File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-401 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
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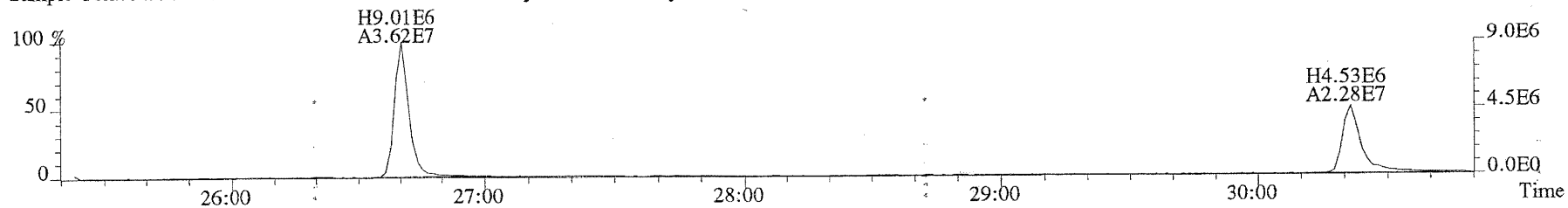
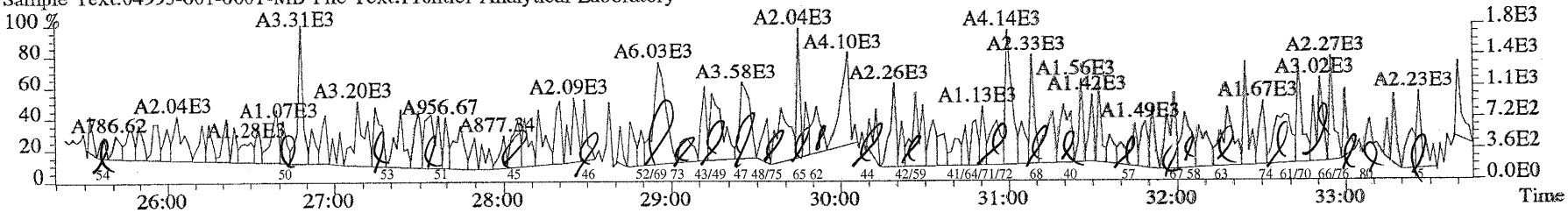
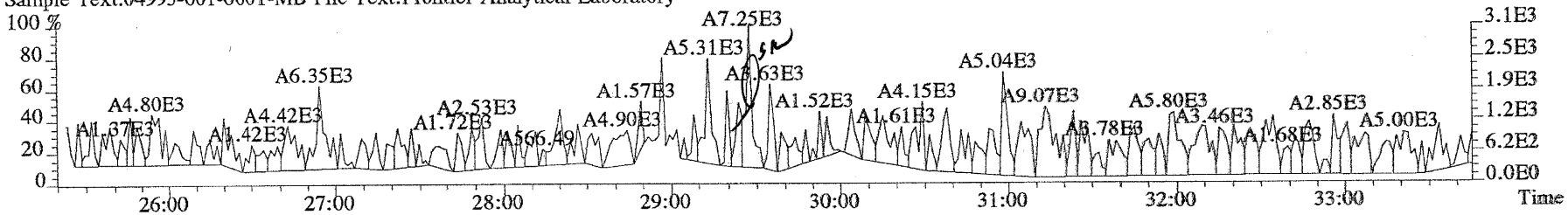
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



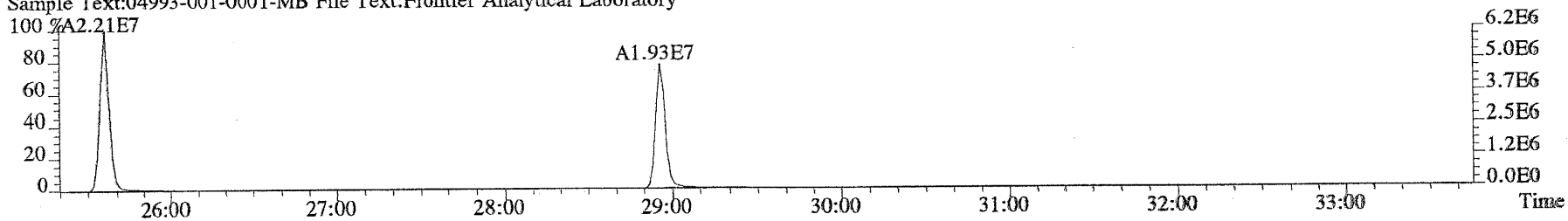
File:06AUG19Z #1-401 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



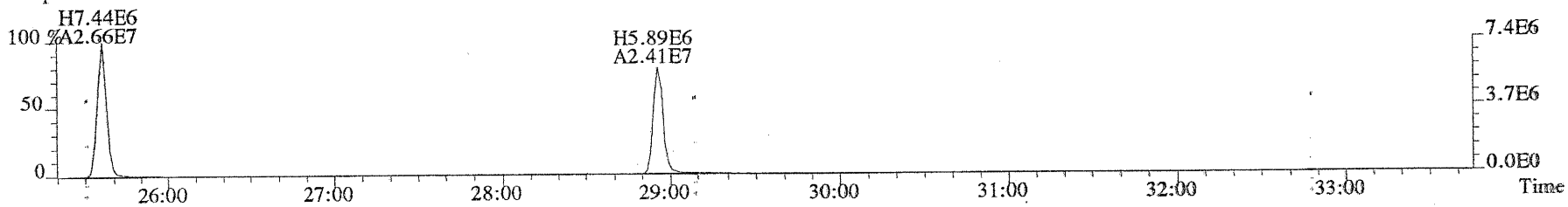
File:06AUG19Z #1-401 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



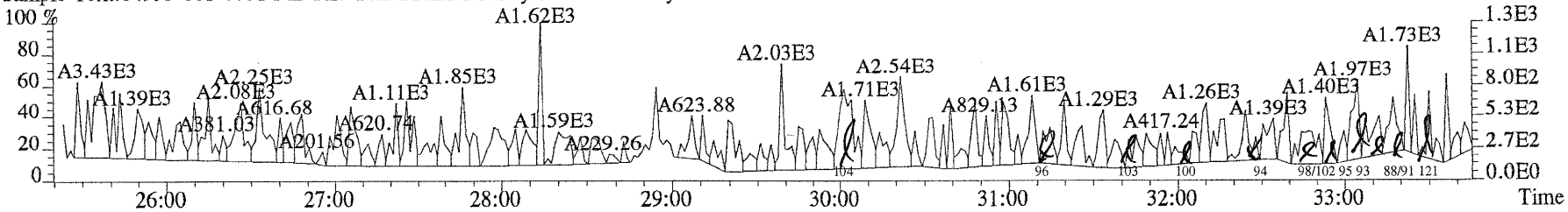
File:06AUG19Z #1-401 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



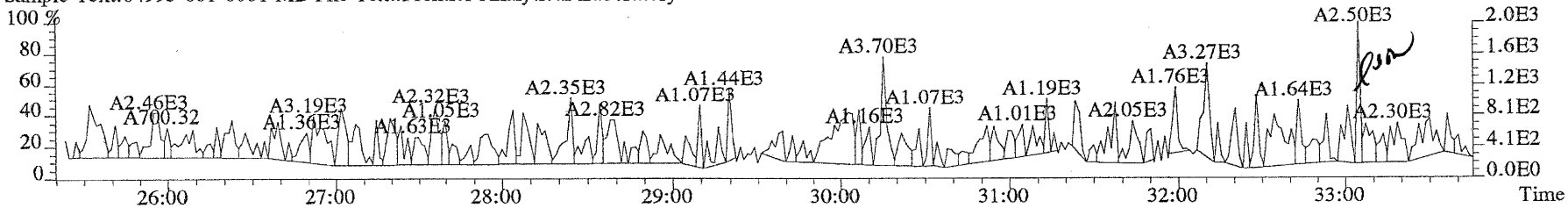
File:06AUG19Z #1-401 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



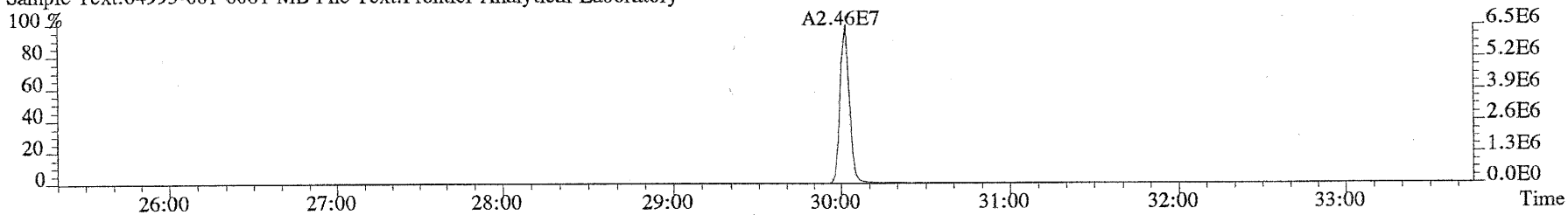
File:06AUG19Z #1-401 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



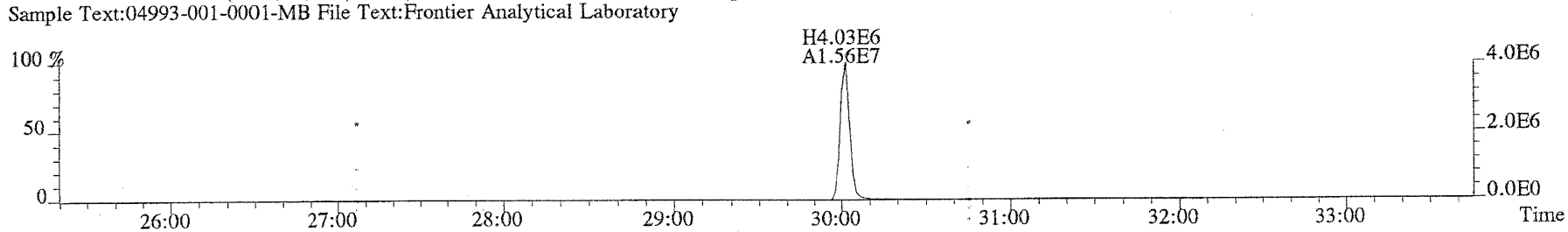
File:06AUG19Z #1-401 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



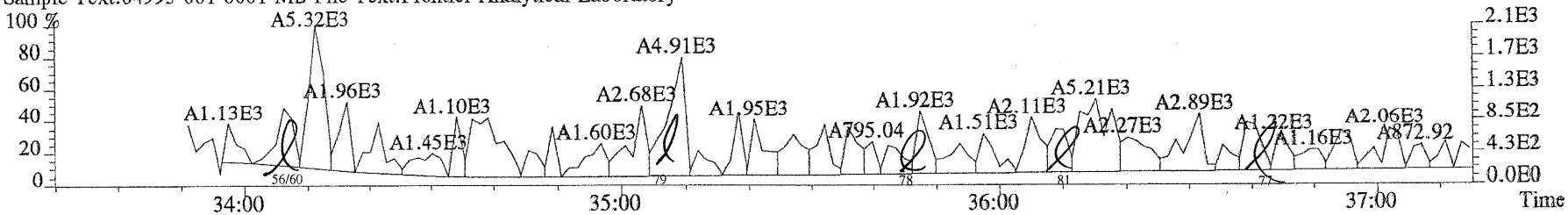
File:06AUG19Z #1-401 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



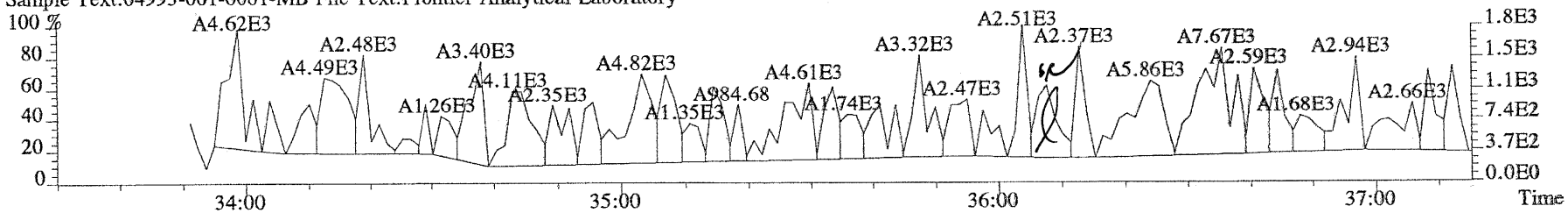
File:06AUG19Z #1-401 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



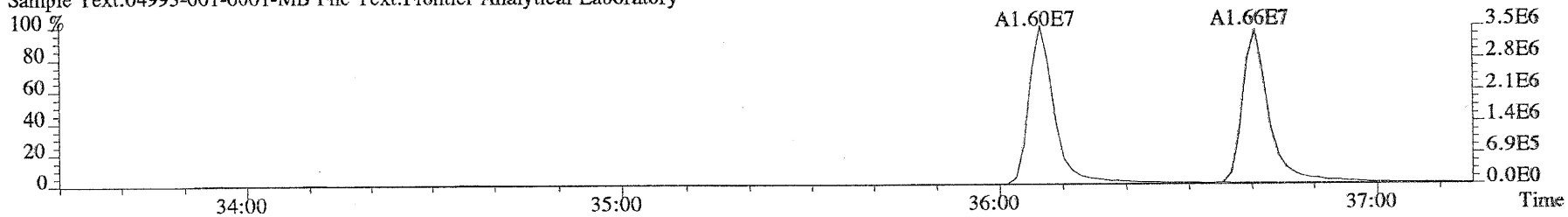
File:06AUG19Z #1-180 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



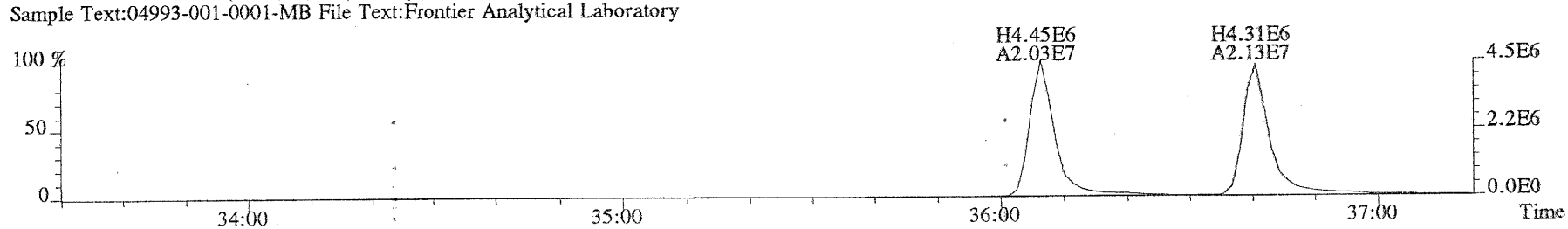
File:06AUG19Z #1-180 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



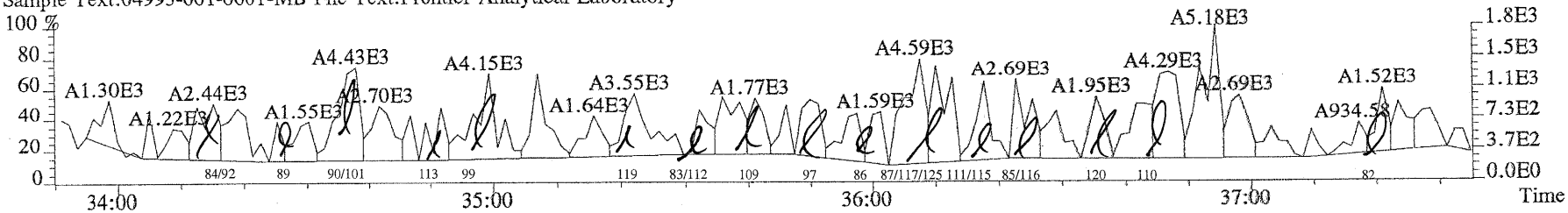
File:06AUG19Z #1-180 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



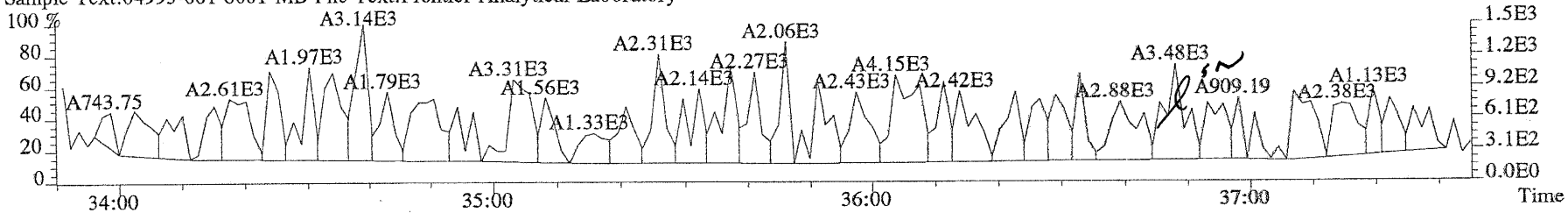
File:06AUG19Z #1-180 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



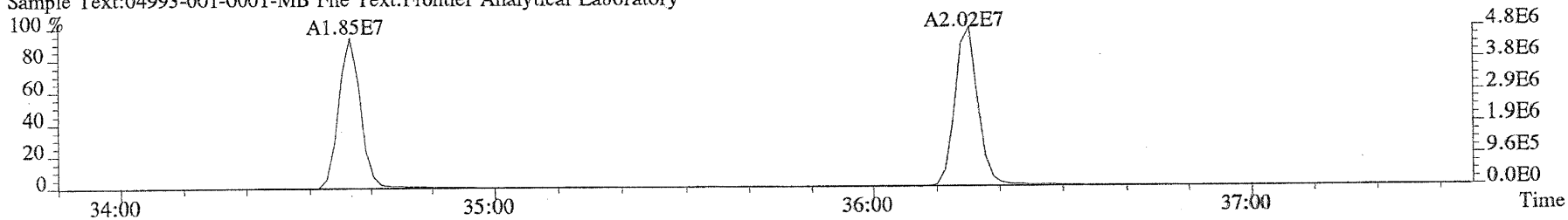
File:06AUG19Z #1-180 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



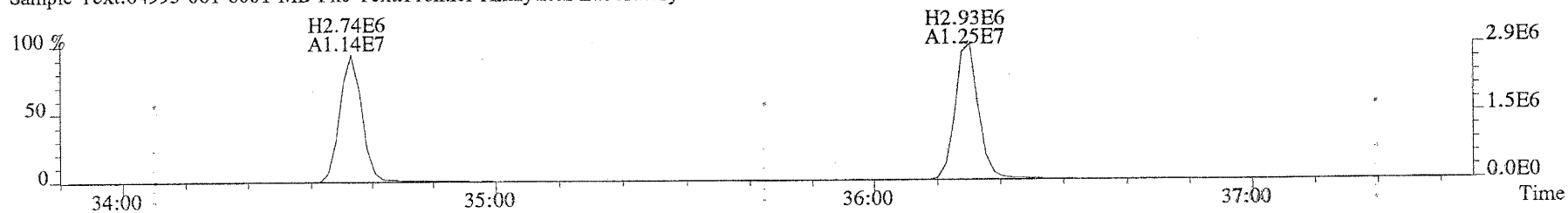
File:06AUG19Z #1-180 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



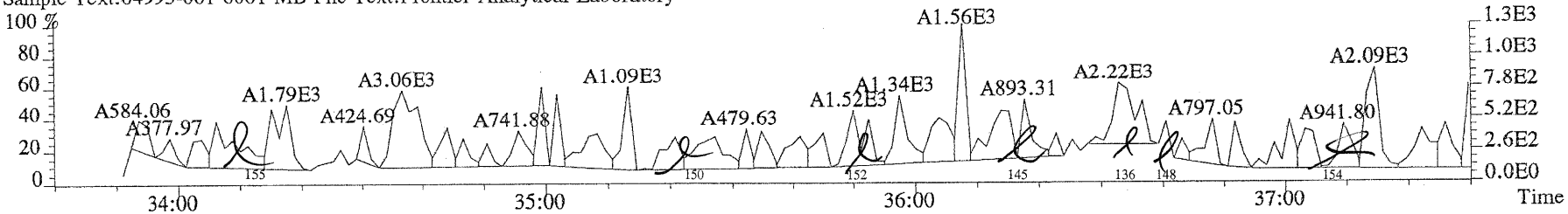
File:06AUG19Z #1-180 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-180 Acq: 6-AUG-2019 11:12:36 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:04993-001-0001-MB File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-180 Acq: 6-AUG-2019 11:12:36 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:04993-001-0001-MB File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-180 Acq: 6-AUG-2019 11:12:36 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
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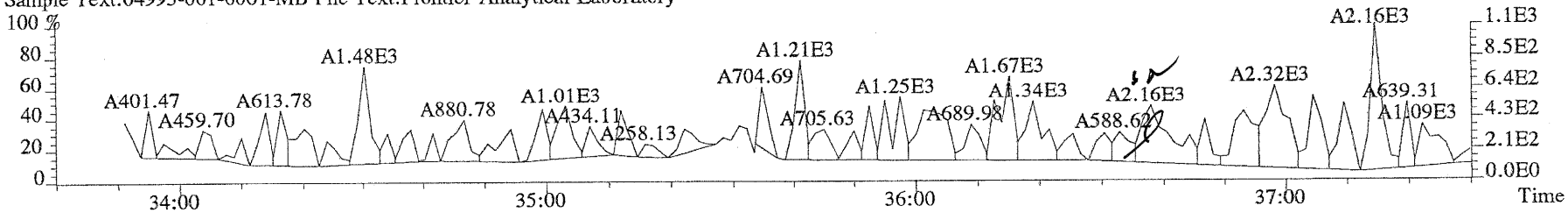

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371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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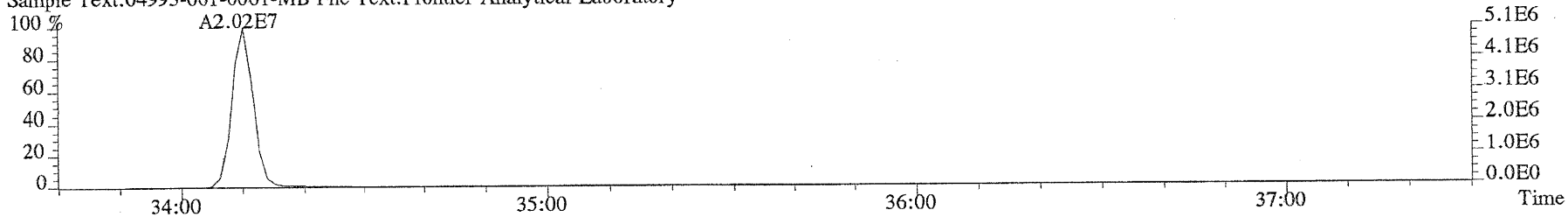

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373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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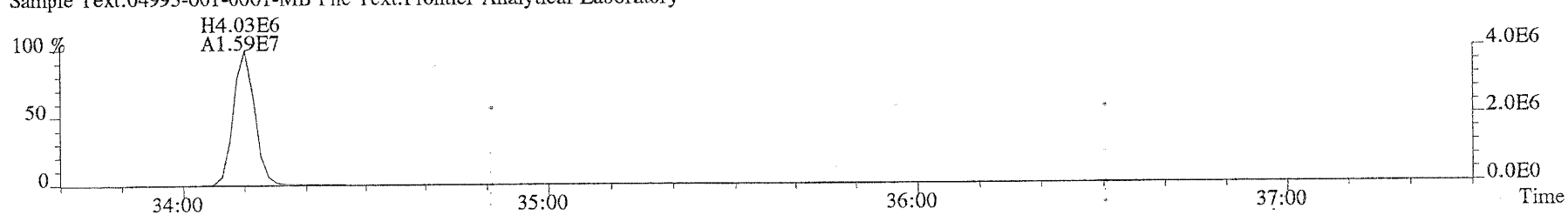

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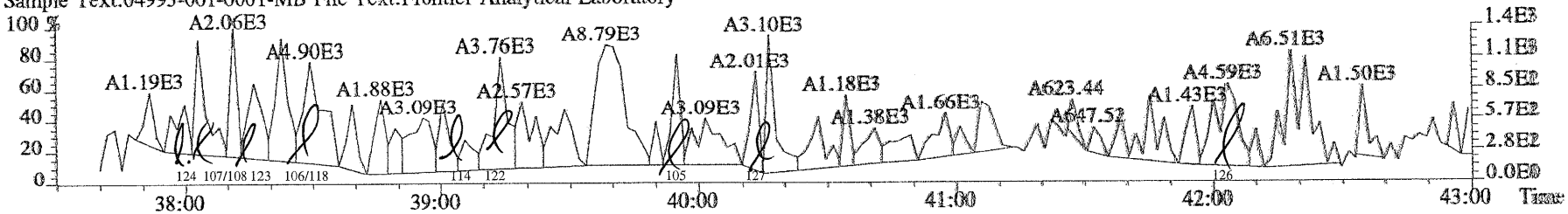

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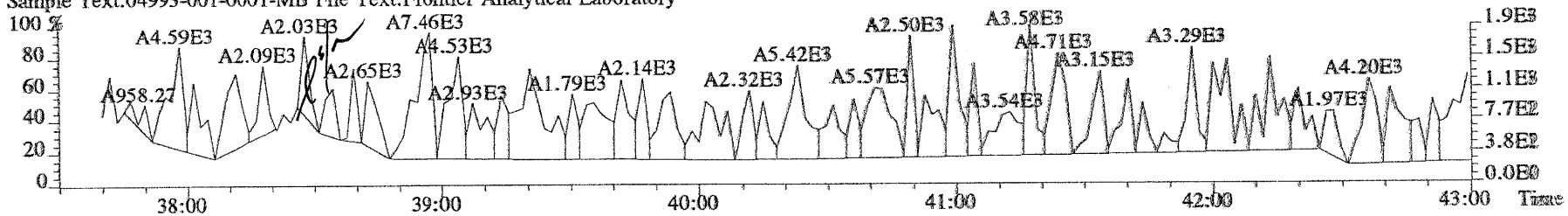

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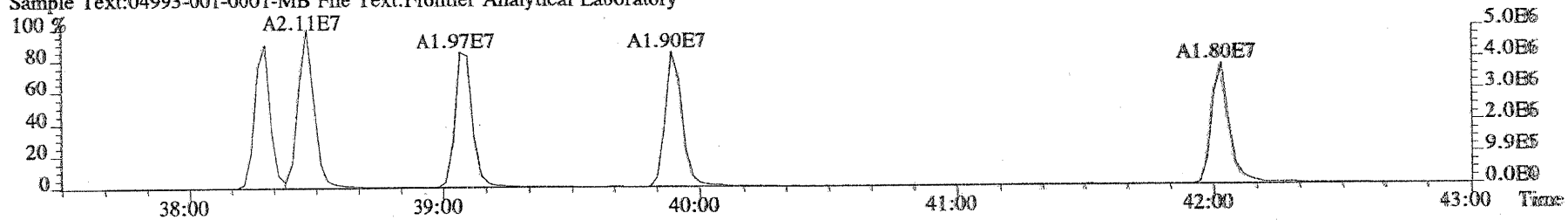

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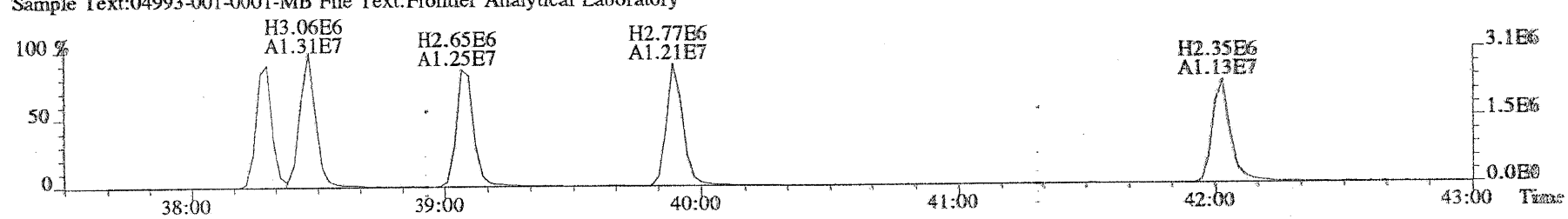

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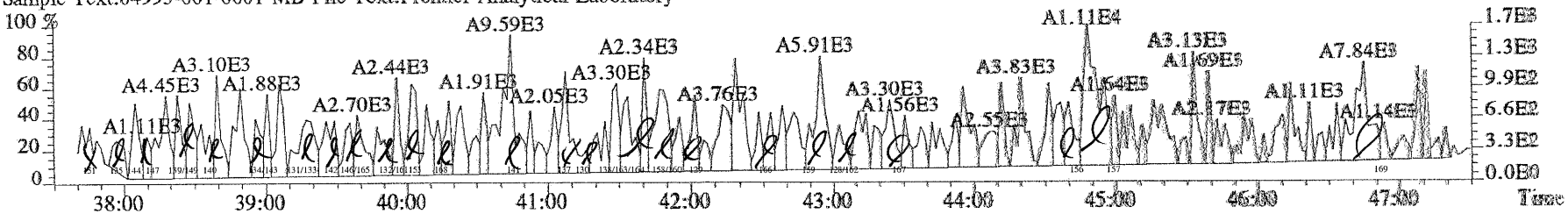
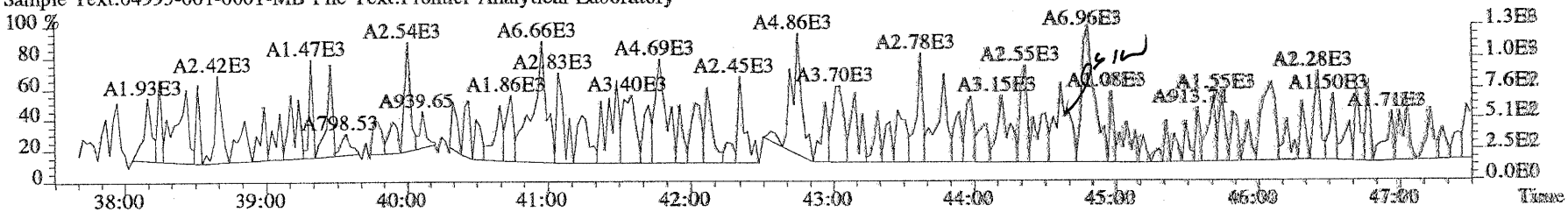


File:06AUG19Z #1-406 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-406 Acq: 6-AUG-2019 11:12:36 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
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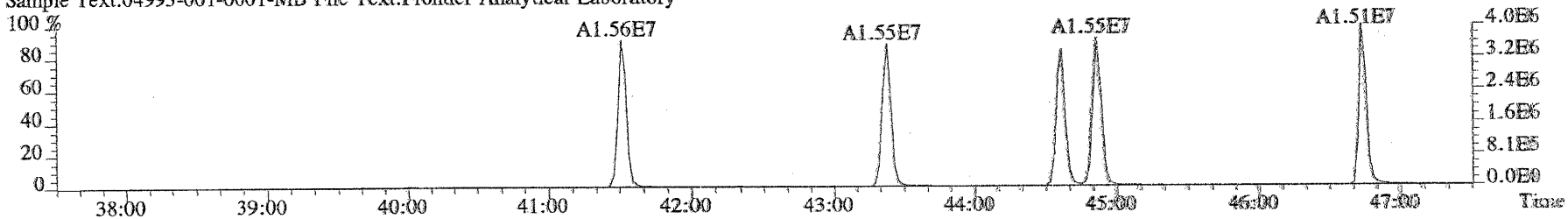

File:06AUG19Z #1-406 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
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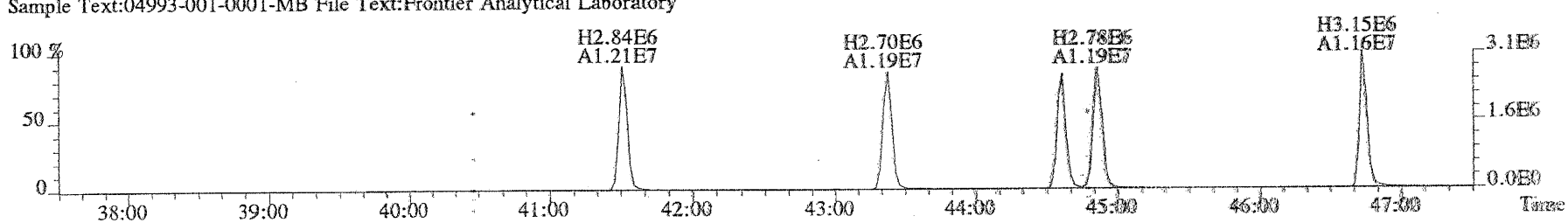

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393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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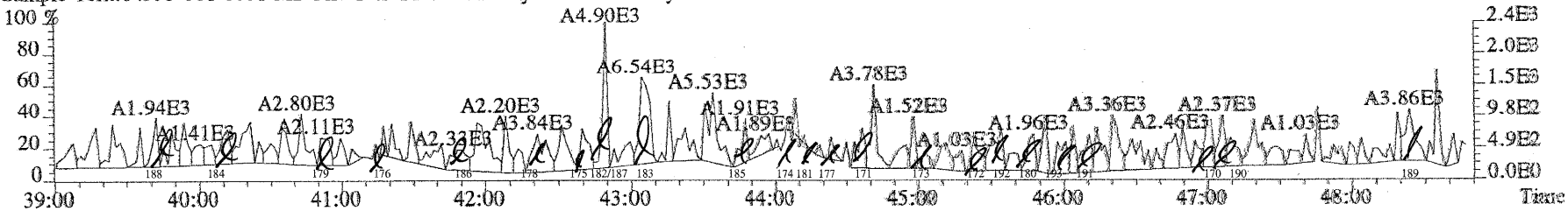

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395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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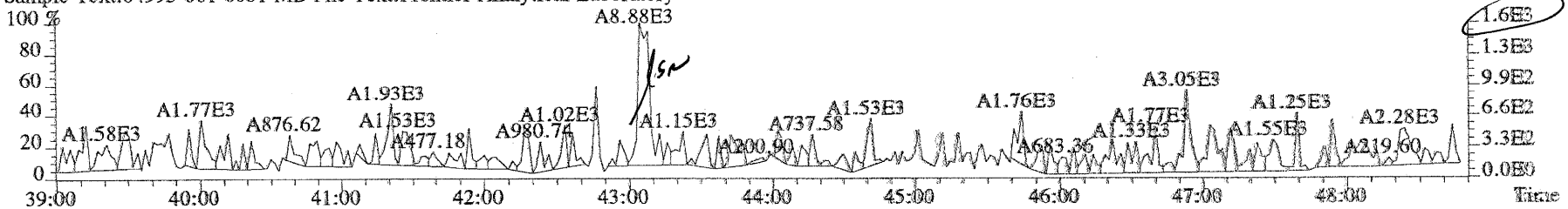

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405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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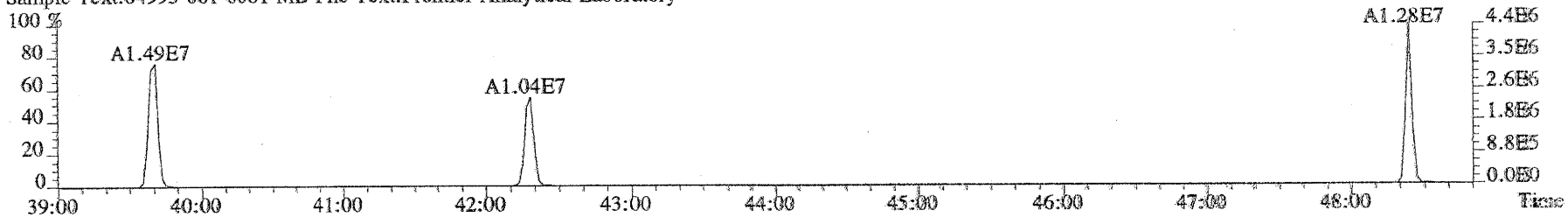

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407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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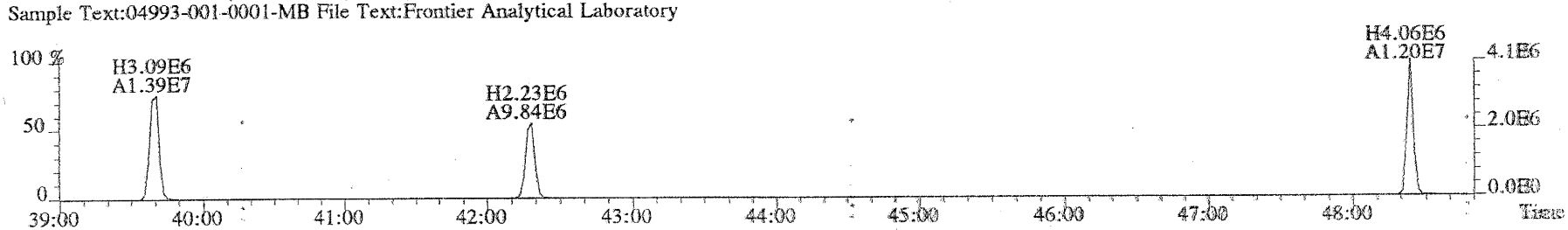

File:06AUG19Z #1-406 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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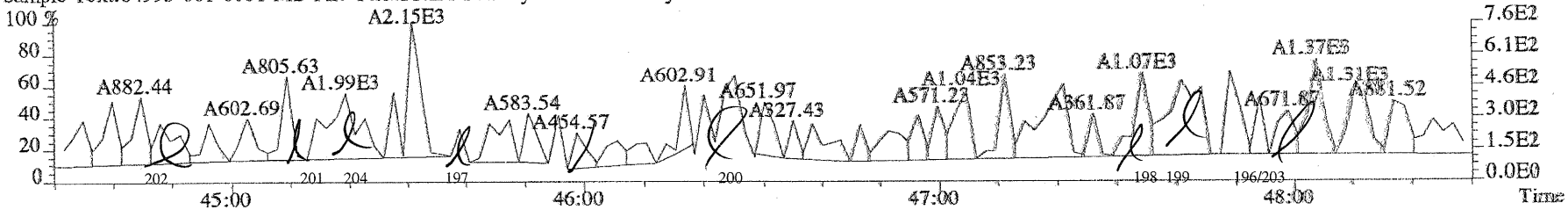

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429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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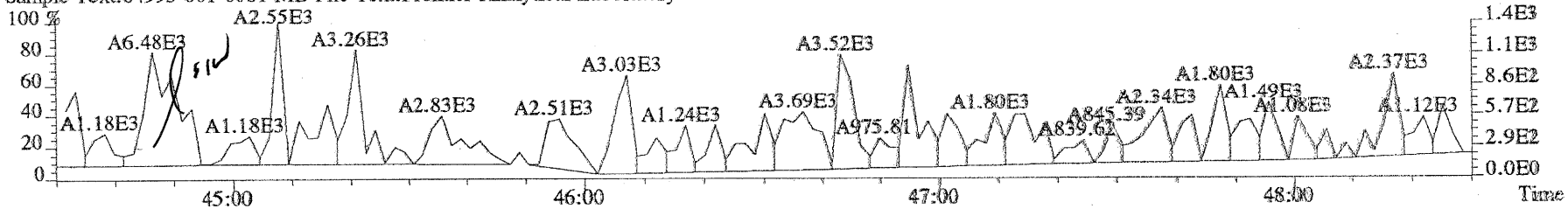
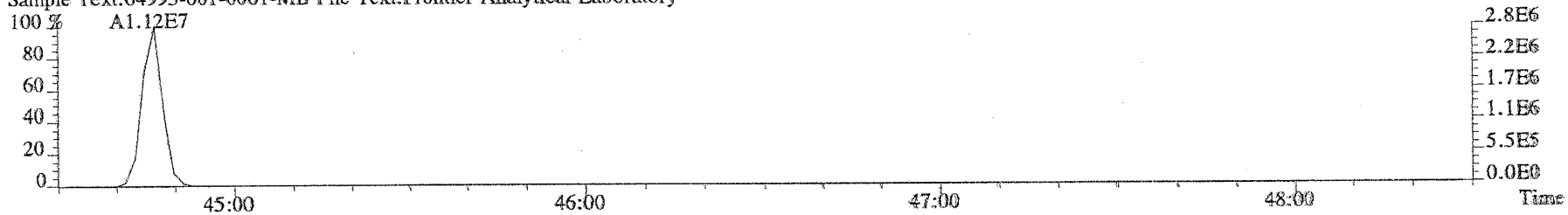


File:06AUG19Z #1-406 Acq: 6-AUG-2019 11:12:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



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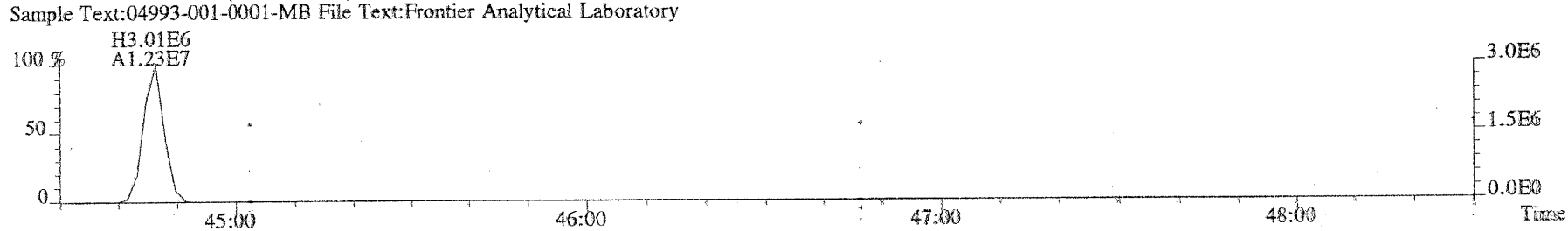
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



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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
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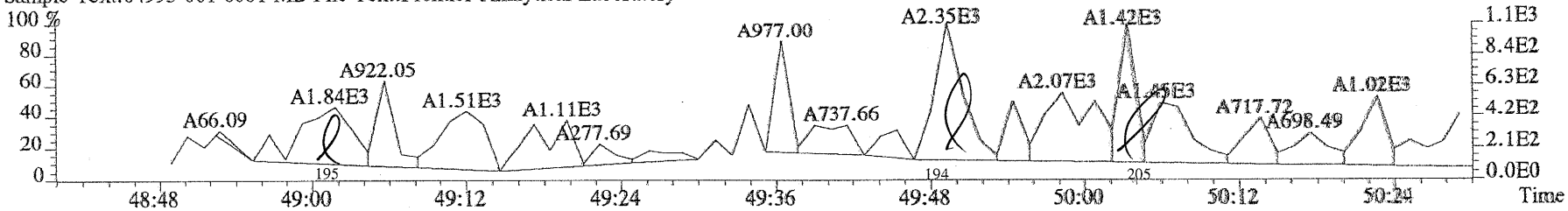

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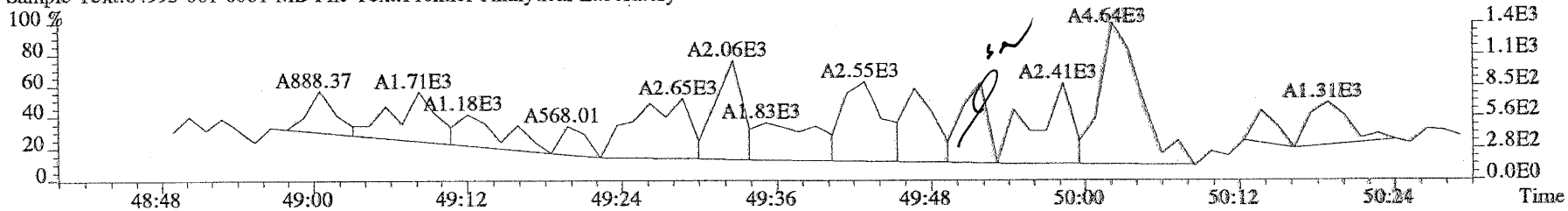

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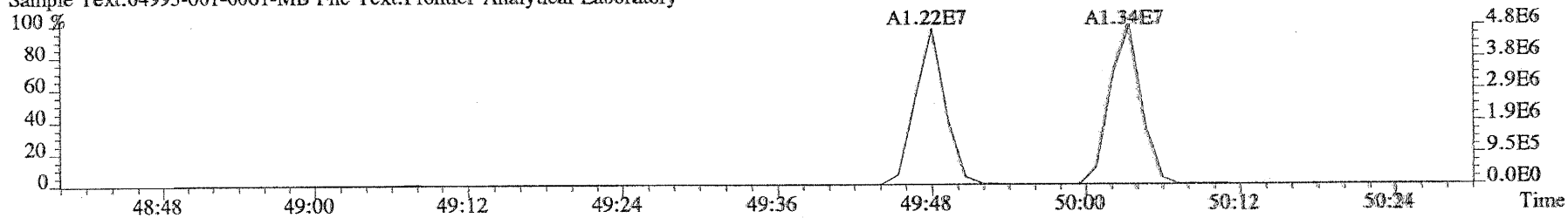

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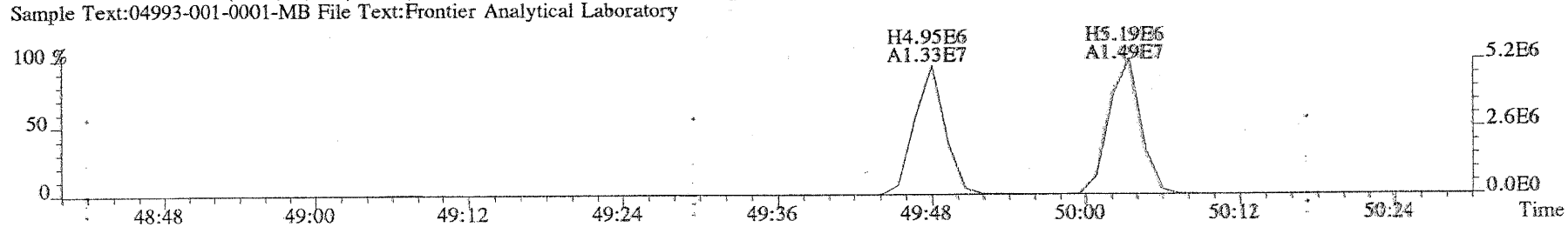

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463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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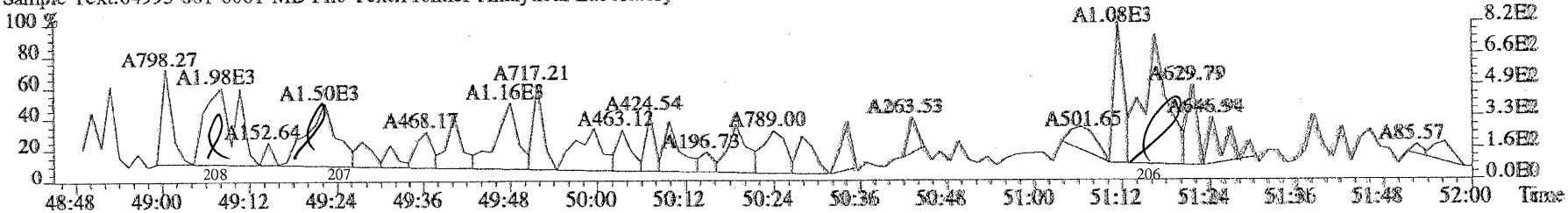

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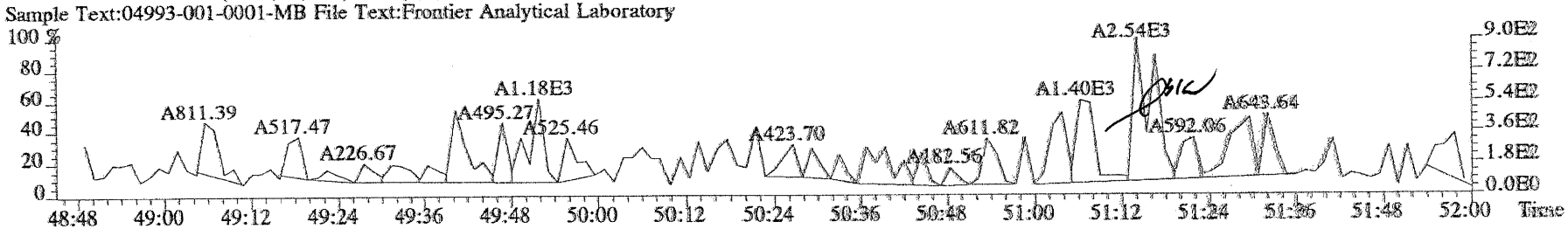

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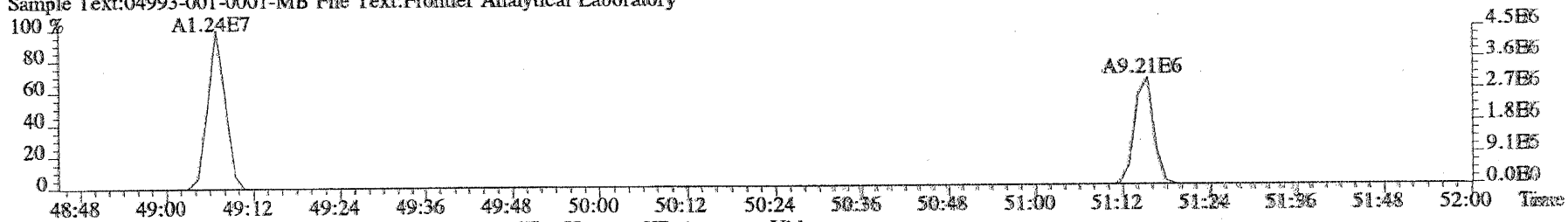
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



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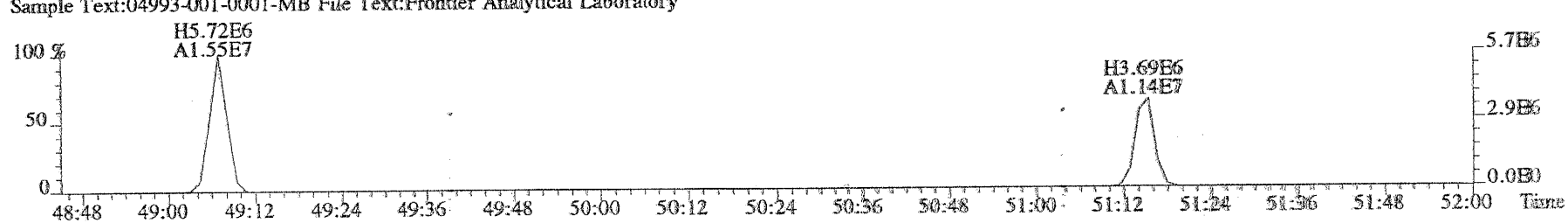
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-MB File Text:Frontier Analytical Laboratory



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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
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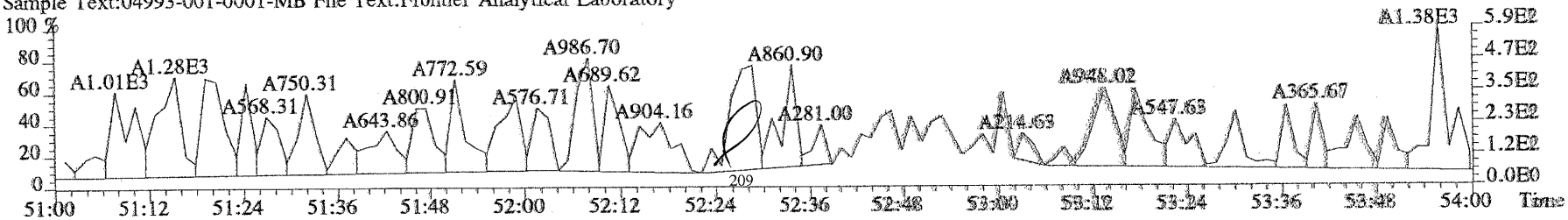

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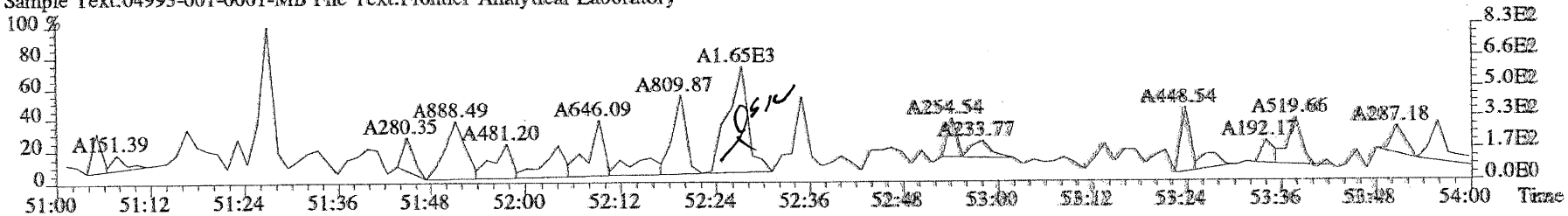

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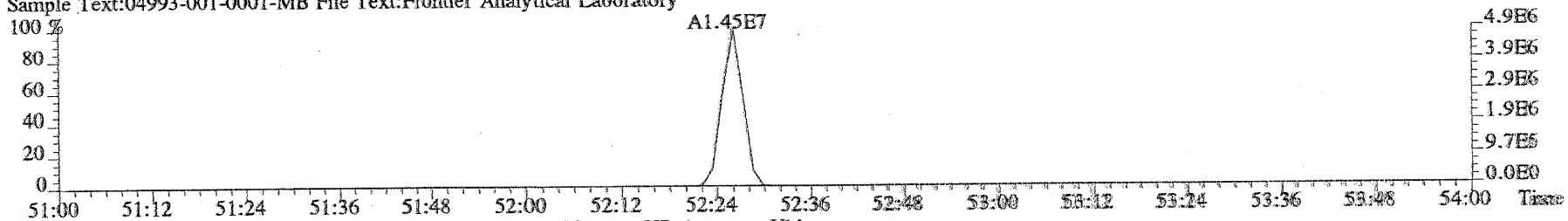

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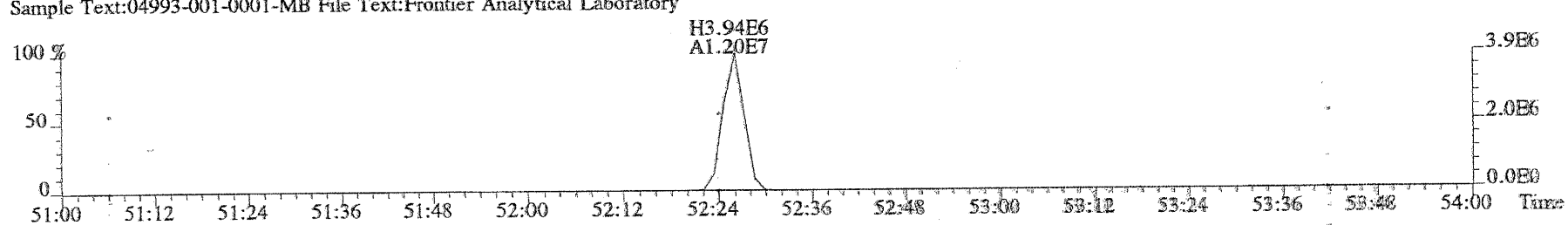


Frontier Analytical Laboratory

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

Lab Name: Frontier Analytical Laboratory FAL ID: 04993-001-0001-OPR

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 06AUG19Z Sam:3

Ext. Date: 8/2/19 Shift: Day Analysis Date: 6-AUG-19 10:13:50

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	51.3	30.0 - 67.5
PCB-3	50	50.2	30.0 - 67.5
PCB-4	50	45.0	30.0 - 67.5
PCB-15	50	45.7	30.0 - 67.5
PCB-19	50	49.1	30.0 - 67.5
PCB-37	50	47.9	30.0 - 67.5
PCB-54	50	49.7	30.0 - 67.5
PCB-77	50	49.4	30.0 - 67.5
PCB-81	50	45.4	30.0 - 67.5
PCB-104	50	50.6	30.0 - 67.5
PCB-105	50	44.4	30.0 - 67.5
PCB-114	50	45.8	30.0 - 67.5
PCB-118	50	50.2	30.0 - 67.5
PCB-123	50	49.6	30.0 - 67.5
PCB-126	50	46.8	30.0 - 67.5
PCB-155	50	49.0	30.0 - 67.5
PCB-156	50	45.5	30.0 - 67.5
PCB-157	50	46.9	30.0 - 67.5
PCB-167	50	47.8	30.0 - 67.5
PCB-169	50	50.4	30.0 - 67.5
PCB-188	50	49.9	30.0 - 67.5
PCB-189	50	50.5	30.0 - 67.5
PCB-202	50	53.6	30.0 - 67.5
PCB-205	50	48.8	30.0 - 67.5
PCB-206	50	49.6	30.0 - 67.5
PCB-208	50	50.1	30.0 - 67.5
PCB-209	50	48.9	30.0 - 67.5

Analyst: Date: 8/7/19

Frontier Analytical Laboratory

FORM 8B

209 PCB ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory FAL ID: 04993-001-0001-OPR

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 06AUG19Z Sam:3

Ext. Date: 8/2/19 Shift: Day Analysis Date: 6-AUG-19 10:13:50

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	83.7	15.0 - 145
13C-PCB-3	100	86.4	15.0 - 145
13C-PCB-4	100	88.7	15.0 - 145
13C-PCB-15	100	96.1	15.0 - 145
13C-PCB-19	100	92.7	15.0 - 145
13C-PCB-37	100	82.1	15.0 - 145
13C-PCB-54	100	89.9	15.0 - 145
13C-PCB-77	100	85.3	40.0 - 145
13C-PCB-81	100	84.8	40.0 - 145
13C-PCB-104	100	93.8	40.0 - 145
13C-PCB-105	100	90.0	40.0 - 145
13C-PCB-114	100	93.0	40.0 - 145
13C-PCB-118	100	92.5	40.0 - 145
13C-PCB-123	100	97.4	40.0 - 145
13C-PCB-126	100	87.8	40.0 - 145
13C-PCB-155	100	102	40.0 - 145
13C-PCB-156	100	87.8	40.0 - 145
13C-PCB-157	100	90.5	40.0 - 145
13C-PCB-167	100	92.1	40.0 - 145
13C-PCB-169	100	88.2	40.0 - 145
13C-PCB-188	100	97.0	40.0 - 145
13C-PCB-189	100	92.5	40.0 - 145
13C-PCB-202	100	97.2	40.0 - 145
13C-PCB-205	100	97.4	40.0 - 145
13C-PCB-206	100	99.9	40.0 - 145
13C-PCB-208	100	97.8	40.0 - 145
13C-PCB-209	100	101	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	98.3	15.0 - 145
13C-PCB-111	100	95.2	40.0 - 145
13C-PCB-178	100	101	40.0 - 145

Analyst: _____ Date: 8/7/19

FAL ID: 04993-001-0001-OPR Filename: 06AUG19Z Sam:3 Acquired: 6-AUG-19 10:13:50 ICal: DAILY209FAL4-8-6-19
Client ID: OPR ConCal: ST08061921 EndCal: ST08061922
Results: 12512 GC Column: DB1MS Amount: 1.000

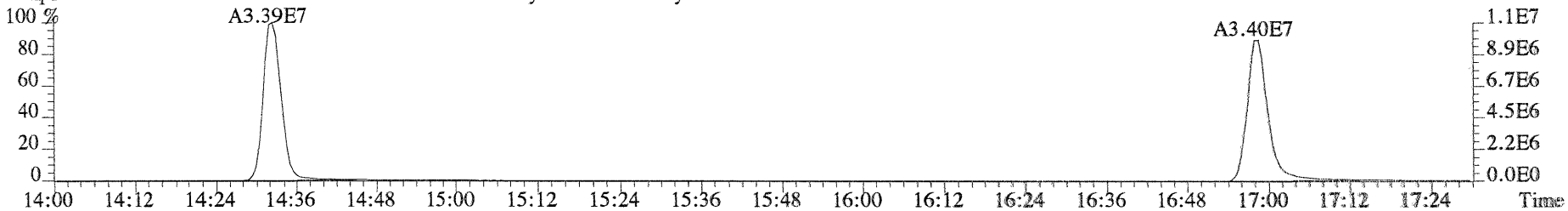
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.45e+07	3.17 y	14:32	1.16	51.3		2.50	-	-	*	
13C-PCB-1	7.49e+07	3.20 y	14:31	0.90	83.7		2.50				83.7
PCB-3	4.50e+07	3.10 y	16:58	1.17	50.2		2.50	-	-	*	
13C-PCB-3	7.64e+07	3.24 y	16:57	0.89	86.4		2.50				86.4
PCB-4	3.21e+07	1.55 y	18:12	1.21	45.0		2.50	-	-	*	
13C-PCB-4	5.87e+07	1.57 y	18:10	0.67	88.7		2.50				88.7
PCB-15	4.26e+07	1.57 y	23:44	1.10	45.7		2.50	-	-	*	
13C-PCB-15	8.45e+07	1.58 y	23:43	0.89	96.1		2.50				96.1
PCB-19	2.68e+07	1.06 y	22:05	1.18	49.1		2.50	-	-	*	
13C-PCB-19	4.61e+07	1.10 y	22:03	0.50	92.7		2.50				92.7
13C-PCB-9	9.92e+07	1.60 y	19:51	-	45.2		2.50				
PCB-37	2.96e+07	1.05 y	30:22	1.15	47.9		2.50	-	-	*	
13C-PCB-37	5.38e+07	1.06 y	30:21	1.41	82.1		2.50				82.1
PCB-54	3.12e+07	0.84 y	25:38	1.15	49.7		2.50	-	-	*	
13C-PCB-54	5.45e+07	0.81 y	25:36	1.31	89.9		2.50				89.9
PCB-104	2.52e+07	1.56 y	30:03	1.09	50.6		2.50	-	-	*	
13C-PCB-104	4.56e+07	1.56 y	30:02	1.05	93.8		2.50				93.8
13C-PCB-28	8.27e+07	1.05 y	26:41	1.82	98.3		2.50				98.3
13C-PCB-52	4.63e+07	0.82 y	28:56	-	49.0		2.50				
PCB-81	2.27e+07	0.81 y	36:08	1.21	45.4		2.50	-	-	*	
13C-PCB-81	4.13e+07	0.80 y	36:07	1.53	84.8		2.50				84.8
PCB-77	2.21e+07	0.82 y	36:41	1.04	49.4		2.50	-	-	*	
13C-PCB-77	4.30e+07	0.79 y	36:41	1.58	85.3		2.50				85.3
PCB-155	2.16e+07	1.26 y	34:12	1.03	49.0		2.50	-	-	*	
13C-PCB-155	4.28e+07	1.27 y	34:11	1.32	102		2.50				102
13C-PCB-111	3.69e+07	1.61 y	36:14	1.22	95.2		2.50				95.2
13C-PCB-101	3.18e+07	1.62 y	34:37	-	44.1		2.50				
PCB-123	1.91e+07	1.57 y	38:18	1.05	49.6		2.50	-	-	*	
13C-PCB-123	3.66e+07	1.59 y	38:17	1.27	97.4		2.50				97.4
PCB-118	2.08e+07	1.53 y	38:30	1.05	50.2		2.50	-	-	*	
13C-PCB-118	3.95e+07	1.59 y	38:28	1.44	92.5		2.50				92.5
PCB-114	1.90e+07	1.57 y	39:06	1.11	45.8		2.50	-	-	*	
13C-PCB-114	3.73e+07	1.59 y	39:04	1.35	93.0		2.50				93.0
PCB-105	1.84e+07	1.54 y	39:56	1.14	44.4		2.50	-	-	*	
13C-PCB-105	3.65e+07	1.57 y	39:54	1.37	90.0		2.50				90.0
PCB-126	1.67e+07	1.51 y	42:02	1.09	46.8		2.50	-	-	*	
13C-PCB-126	3.27e+07	1.58 y	42:02	1.26	87.8		2.50				87.8
PCB-167	1.69e+07	1.26 y	43:25	1.10	47.8		2.50	-	-	*	
13C-PCB-167	3.21e+07	1.32 y	43:23	1.18	92.1		2.50				92.1
PCB-156	1.61e+07	1.27 y	44:37	1.18	45.5		2.50	-	-	*	
13C-PCB-156	2.99e+07	1.29 y	44:37	1.15	87.8		2.50				87.8
PCB-157	1.65e+07	1.26 y	44:53	1.12	46.9		2.50	-	-	*	
13C-PCB-157	3.15e+07	1.27 y	44:52	1.18	90.5		2.50				90.5
PCB-169	1.50e+07	1.25 y	46:45	1.08	50.4		2.50	-	-	*	
13C-PCB-169	2.76e+07	1.30 y	46:44	1.06	88.2		2.50				88.2
PCB-188	1.74e+07	1.06 y	39:41	1.02	49.9		2.50	-	-	*	
13C-PCB-188	3.42e+07	1.06 y	39:41	1.19	97.0		2.50				97.0
PCB-189	1.37e+07	1.05 y	48:24	0.98	50.5		2.50	-	-	*	
13C-PCB-189	2.76e+07	1.05 y	48:24	1.01	92.5		2.50				92.5
PCB-202	1.49e+07	0.92 y	44:49	1.00	53.6		2.50	-	-	*	
13C-PCB-202	2.77e+07	0.91 y	44:47	0.96	97.2		2.50				97.2
13C-PCB-178	2.30e+07	1.09 y	42:19	0.77	101		2.50				101
13C-PCB-138	2.96e+07	1.29 y	41:31	-	42.4		2.50				

FAL ID: 04993-001-0001-OPR Filename: 06AUG19Z Sam:3 Acquired: 6-AUG-19 10:13:50 ICal: DAILY209FAL4-8-6-19
Client ID: OPR ConCal: ST080619Z1 EndCal: ST080619Z2
Results: 12512 GC Column: DB1MS Amount: 1.000

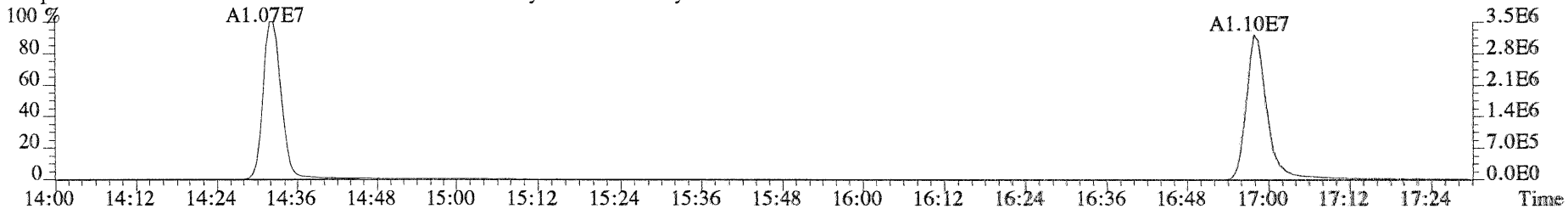
PCB-205	1.71e+07	0.90	y	50:04	1.11	48.8	2.50	-	-	*	
13C-PCB-205	3.16e+07	0.90	y	50:04	1.26	97.4	2.50				97.4
PCB-208	1.72e+07	1.36	y	49:08	1.01	50.1	2.50	-	-	*	
13C-PCB-208	3.41e+07	0.80	y	49:07	1.35	97.8	2.50				97.8
PCB-206	1.23e+07	1.35	y	51:15	1.04	49.6	2.50	-	-	*	
13C-PCB-206	2.39e+07	0.80	y	51:15	0.93	99.9	2.50				99.9
PCB-209	1.66e+07	1.18	y	52:27	1.10	48.9	2.50	-	-	*	
13C-PCB-209	3.10e+07	1.20	y	52:26	1.19	101	2.50				101
13C-PCB-194	2.58e+07	0.91	y	49:48	-	43.4	2.50				

Analyst: [signature] Date: 8/7/19

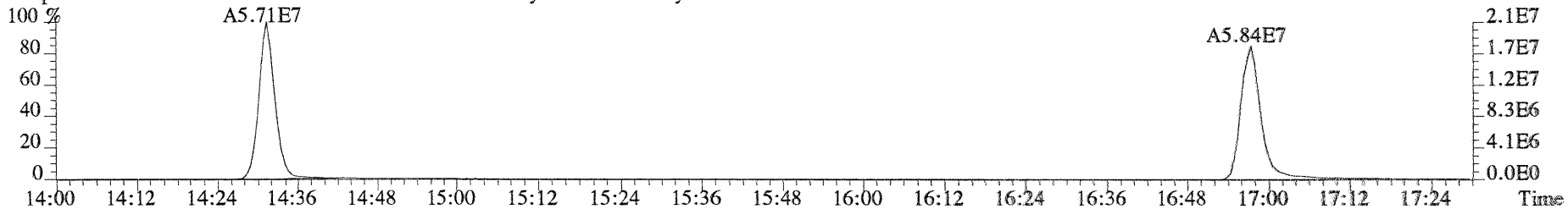
File:06AUG19Z #1-783 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



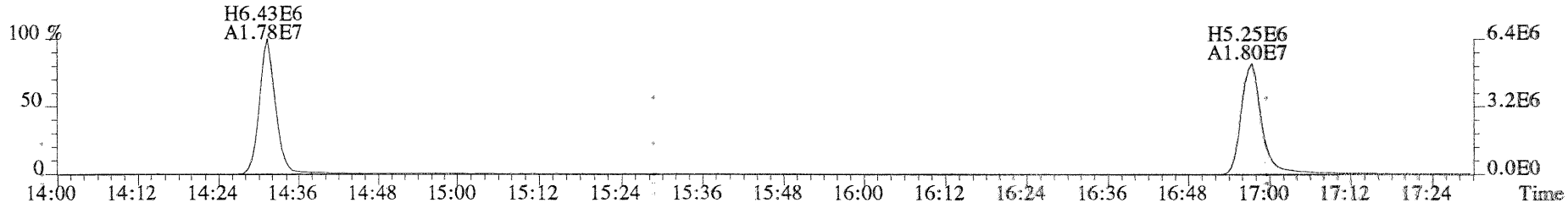
File:06AUG19Z #1-783 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



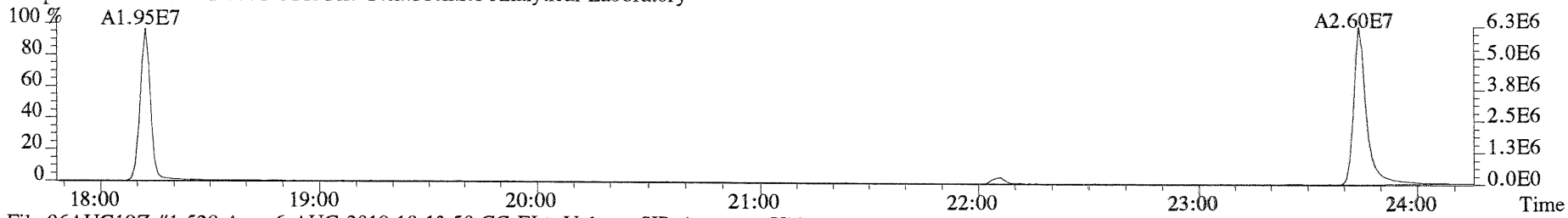
File:06AUG19Z #1-783 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



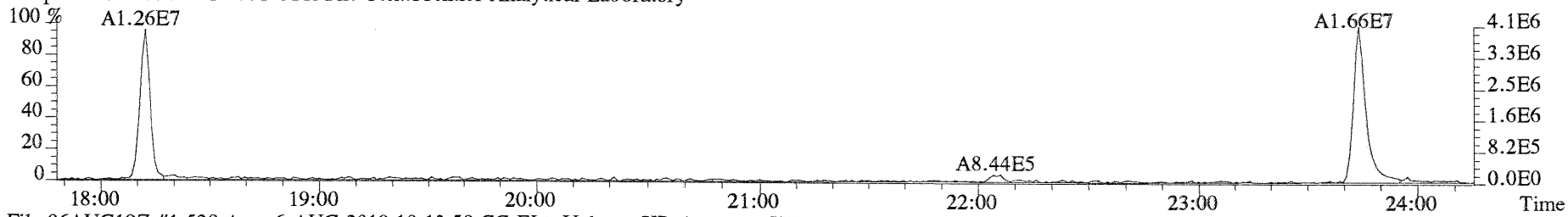
File:06AUG19Z #1-783 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



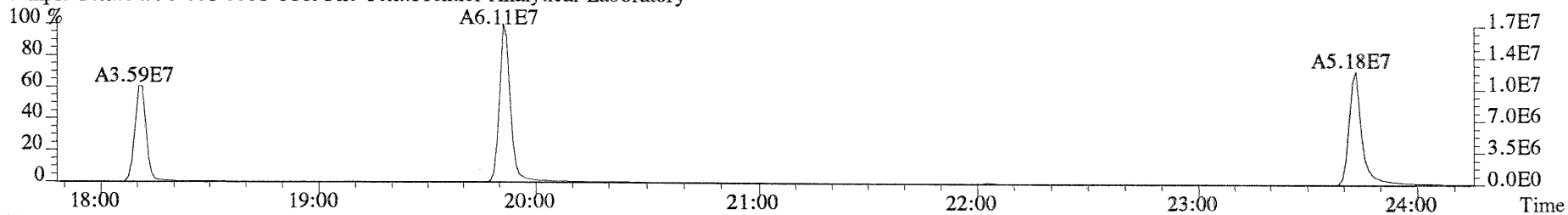
File:06AUG19Z #1-520 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



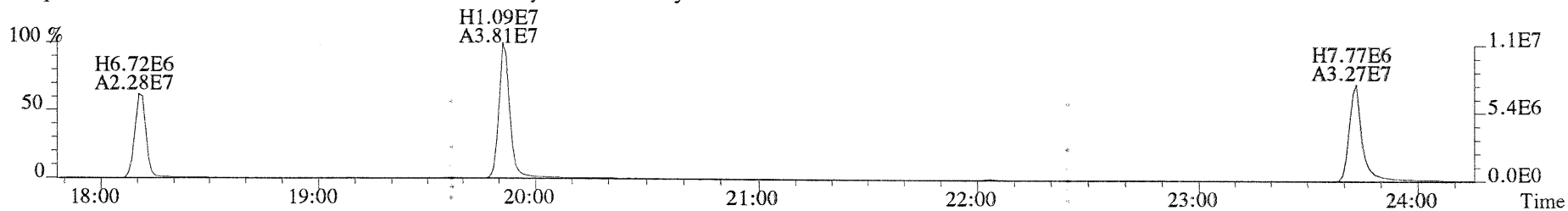
File:06AUG19Z #1-520 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



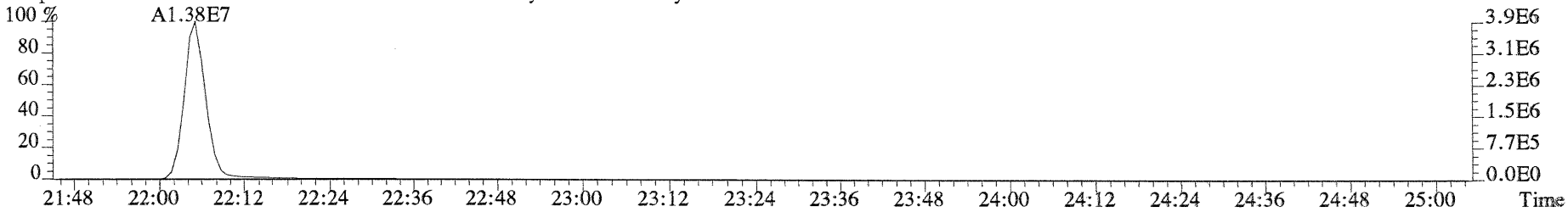
File:06AUG19Z #1-520 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



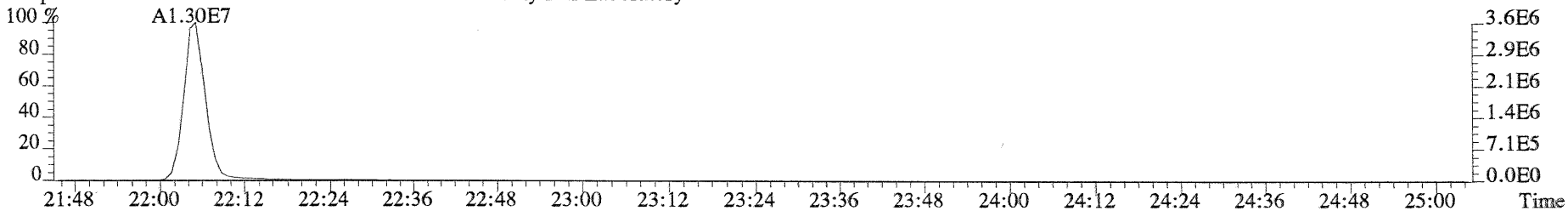
File:06AUG19Z #1-520 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



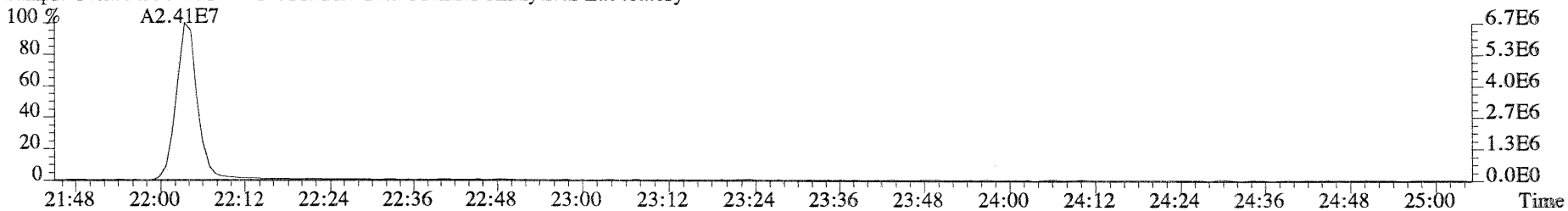
File:06AUG19Z #1-520 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



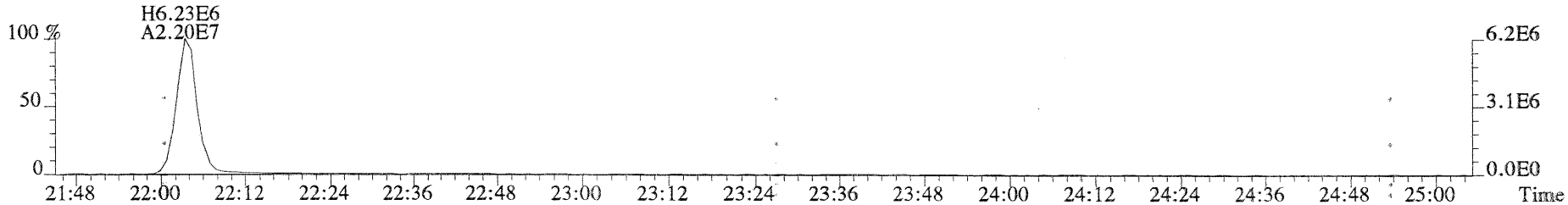
File:06AUG19Z #1-520 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



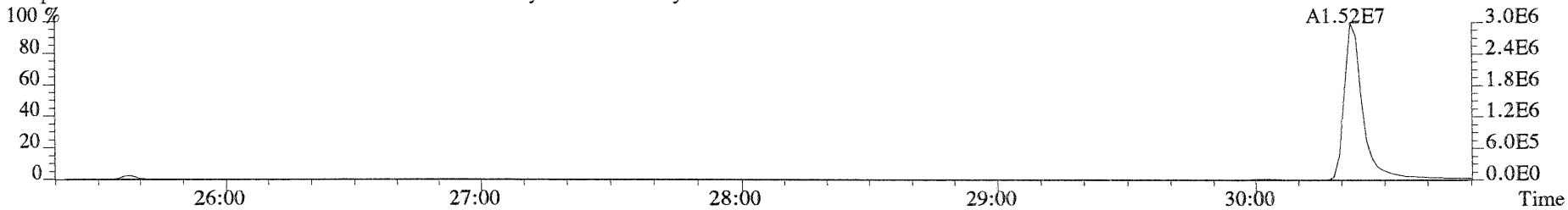
File:06AUG19Z #1-520 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



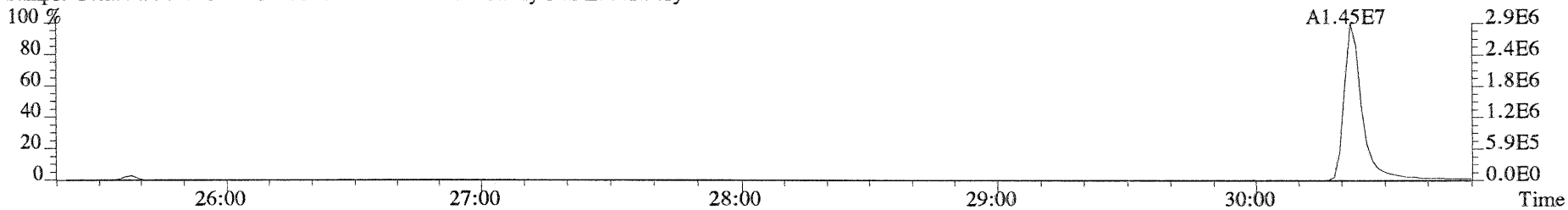
File:06AUG19Z #1-520 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



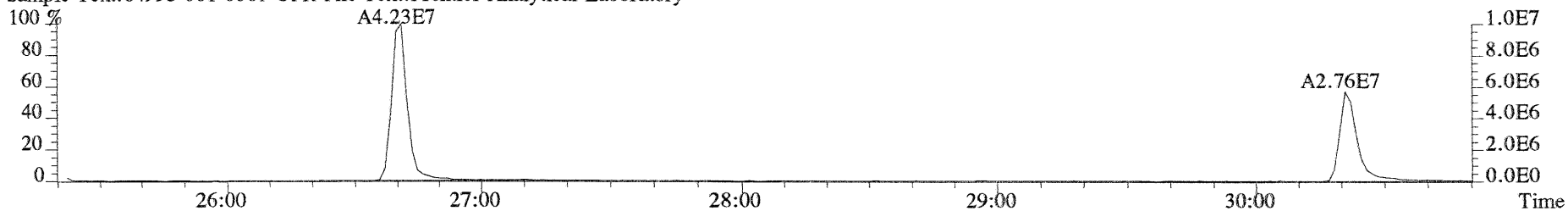
File:06AUG19Z #1-401 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-401 Acq: 6-AUG-2019 10:13:50 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:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-401 Acq: 6-AUG-2019 10:13:50 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:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



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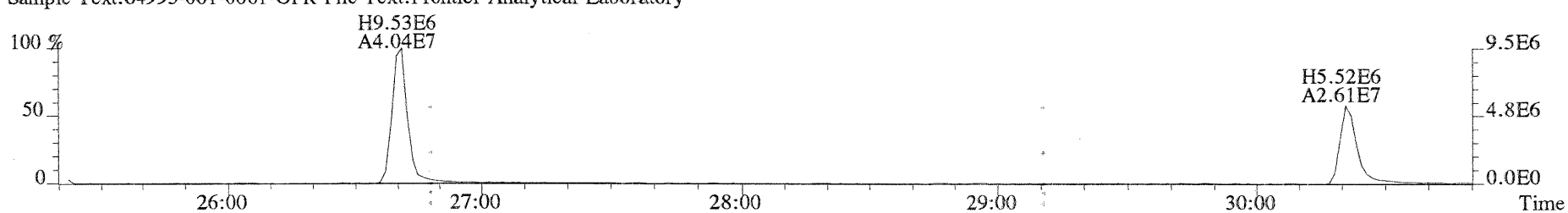
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



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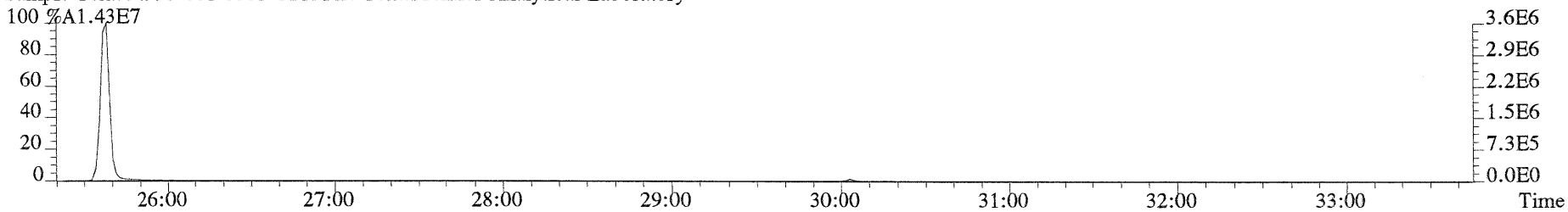
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



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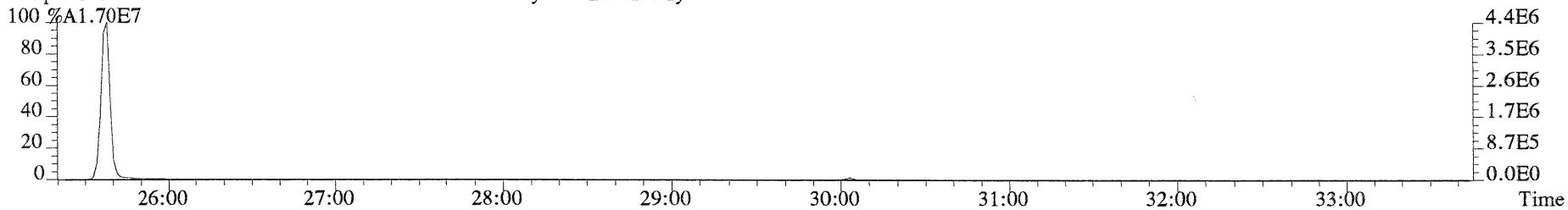
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



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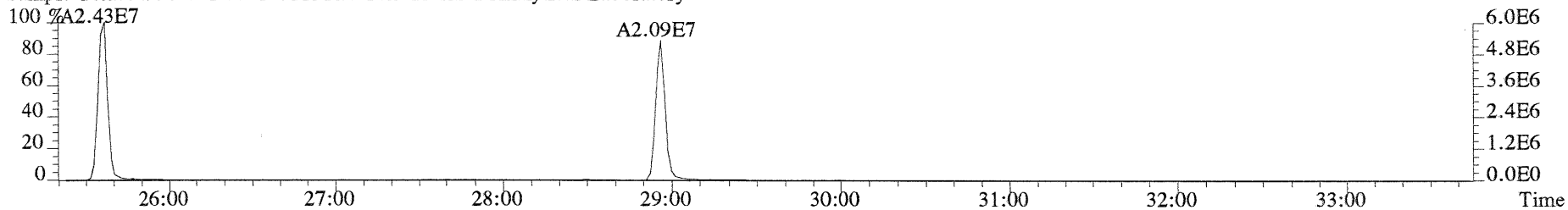
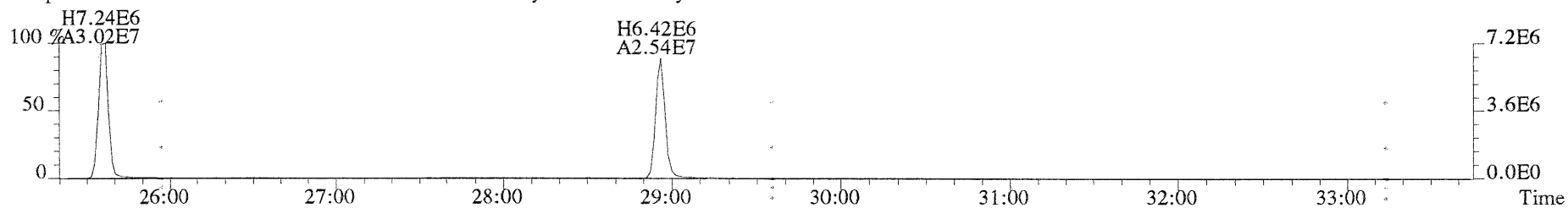
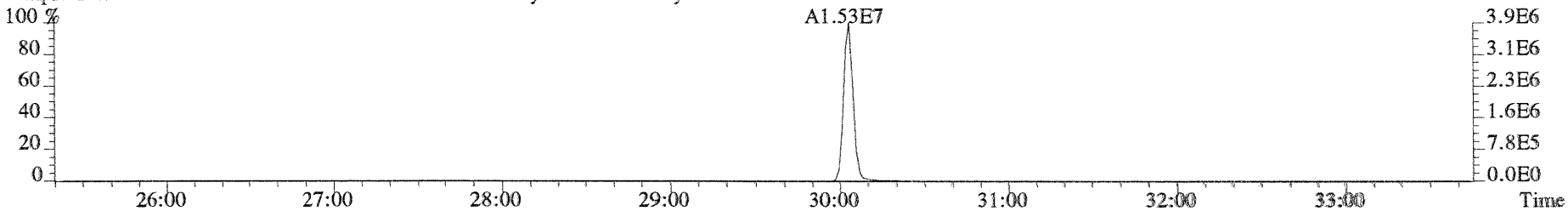
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



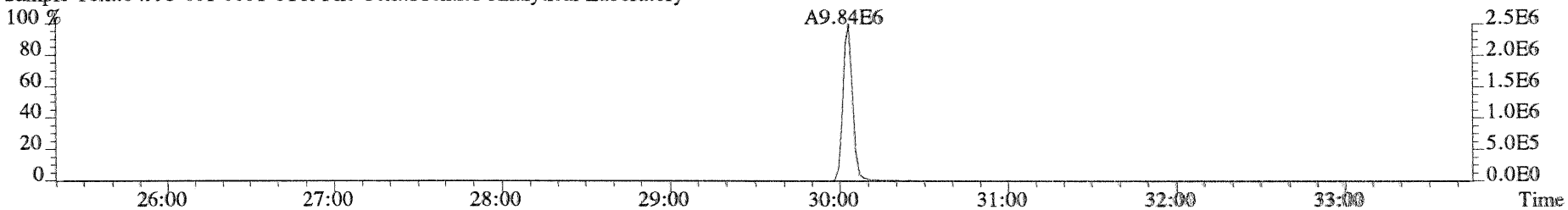
File:06AUG19Z #1-401 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-401 Acq: 6-AUG-2019 10:13:50 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:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-401 Acq: 6-AUG-2019 10:13:50 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:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



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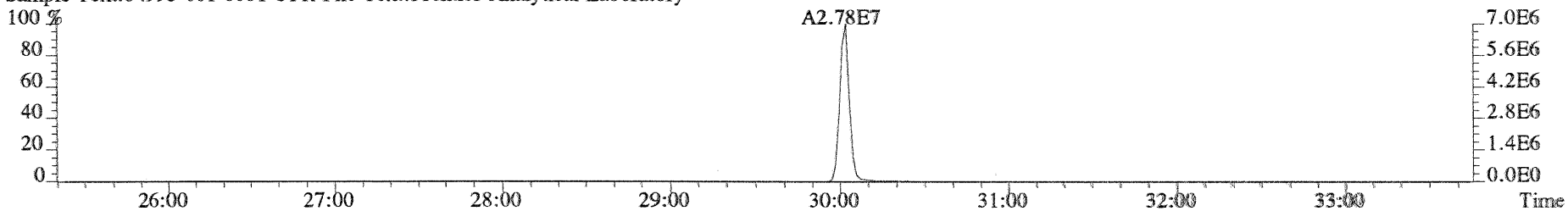
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



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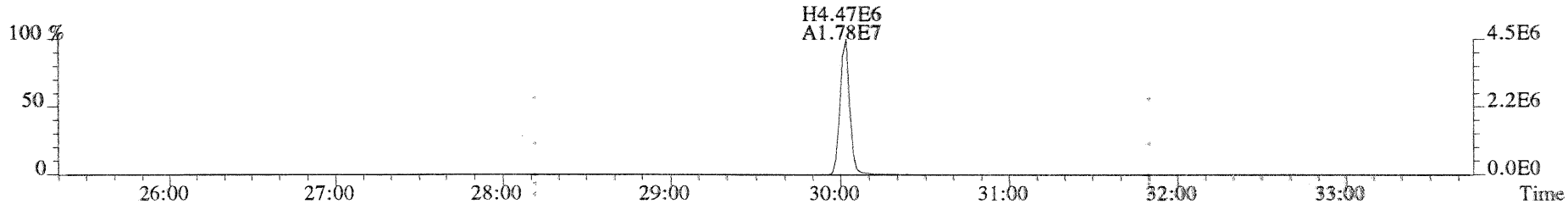
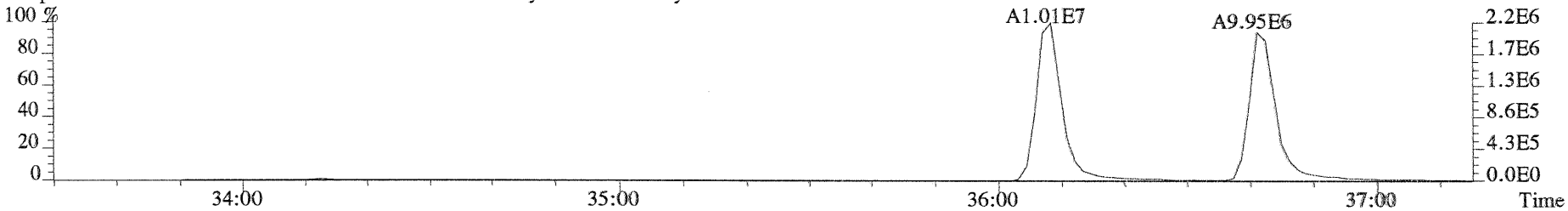
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-181 Acq: 6-AUG-2019 10:13:50 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:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-181 Acq: 6-AUG-2019 10:13:50 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
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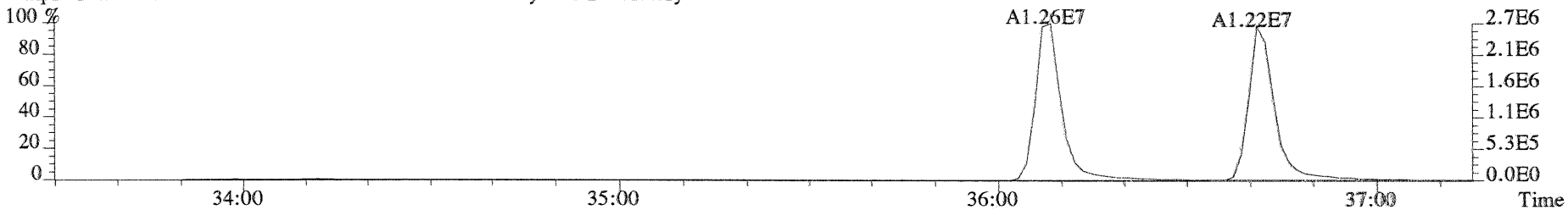

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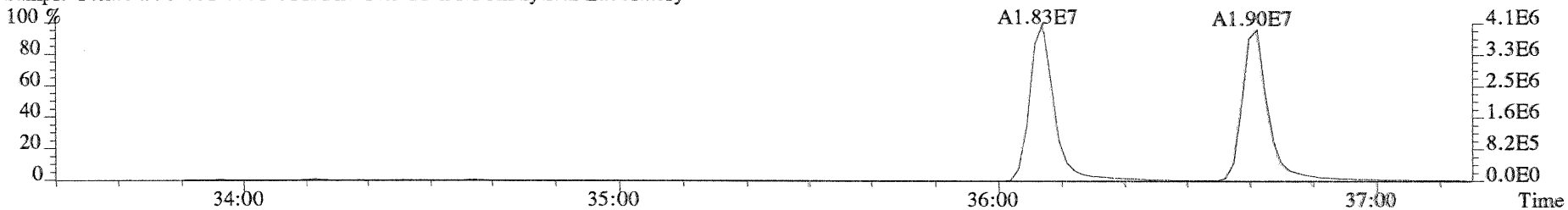
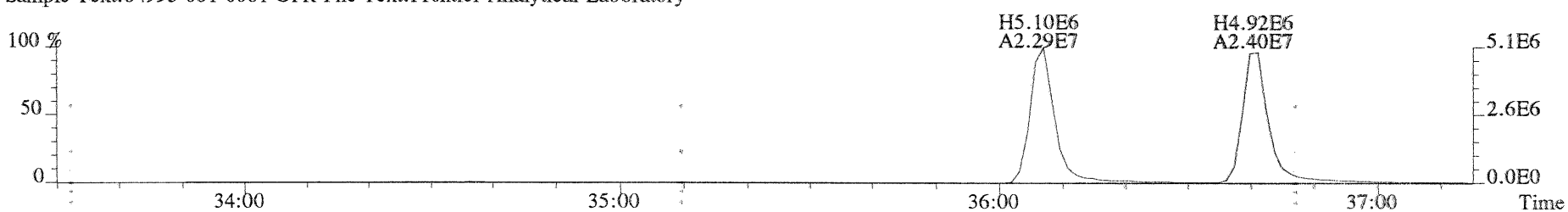
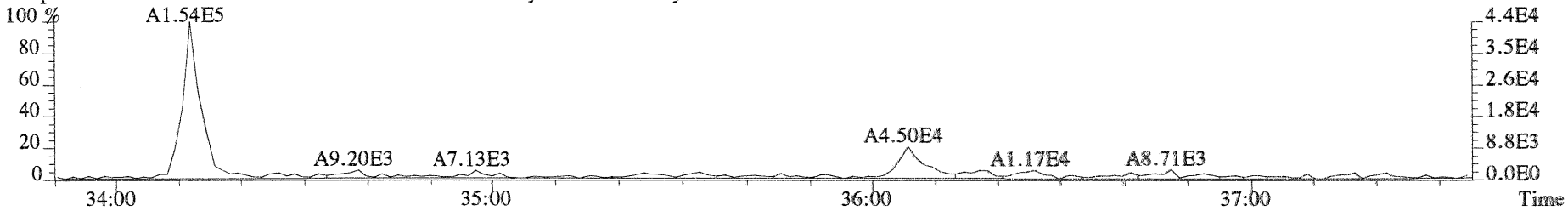
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



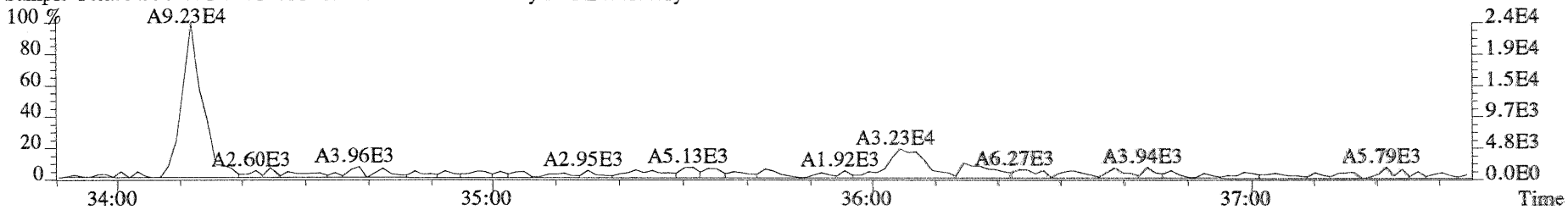
File:06AUG19Z #1-181 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-181 Acq: 6-AUG-2019 10:13:50 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:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-181 Acq: 6-AUG-2019 10:13:50 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:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



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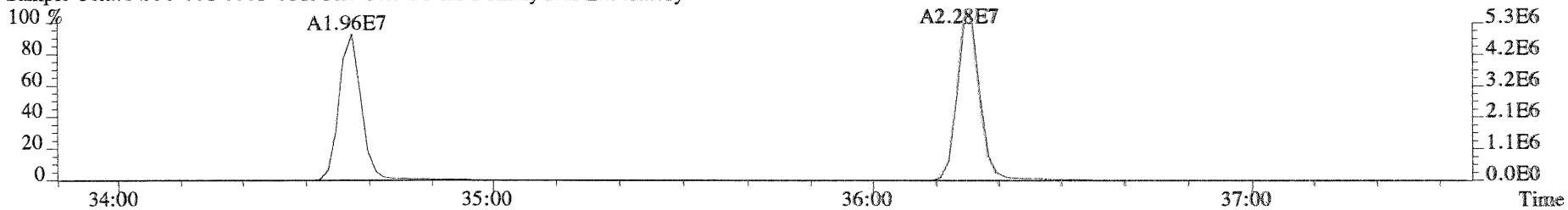
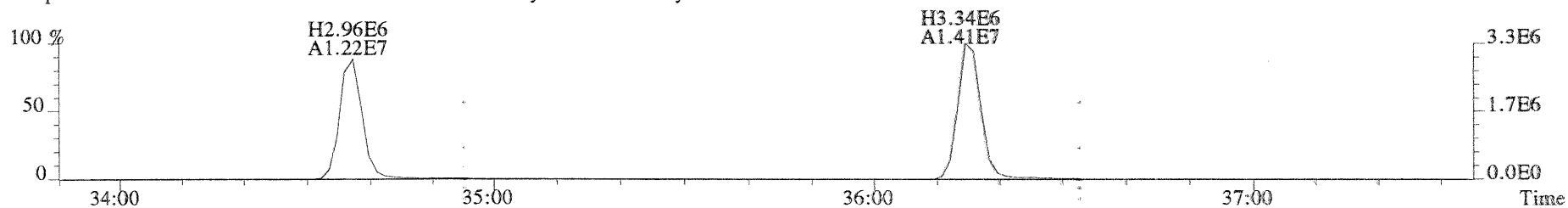
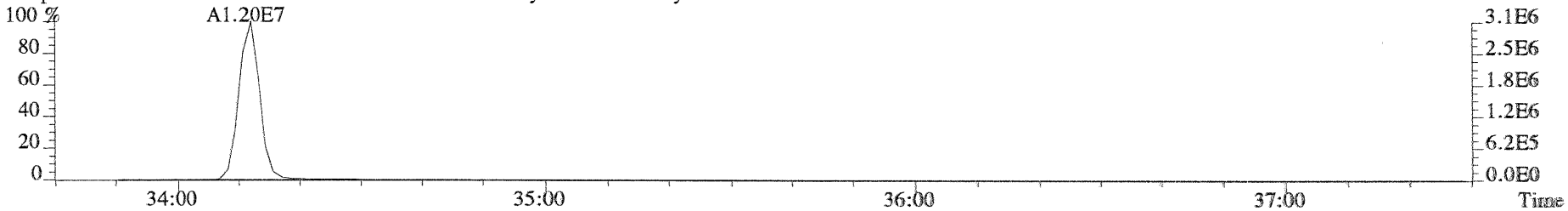
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



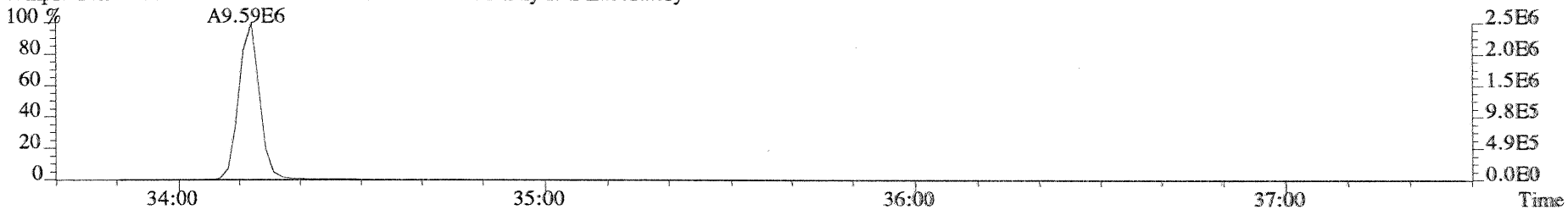
File:06AUG19Z #1-181 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



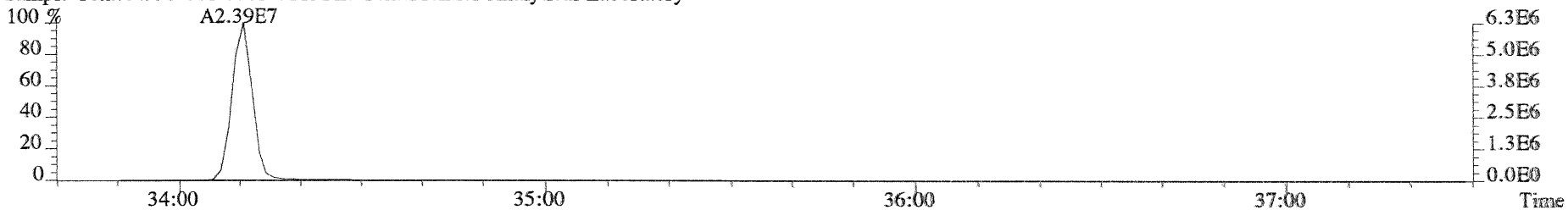
File:06AUG19Z #1-181 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



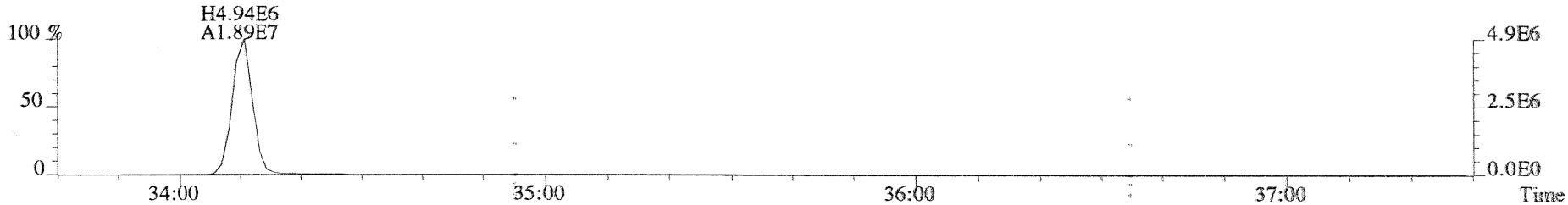
File:06AUG19Z #1-181 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



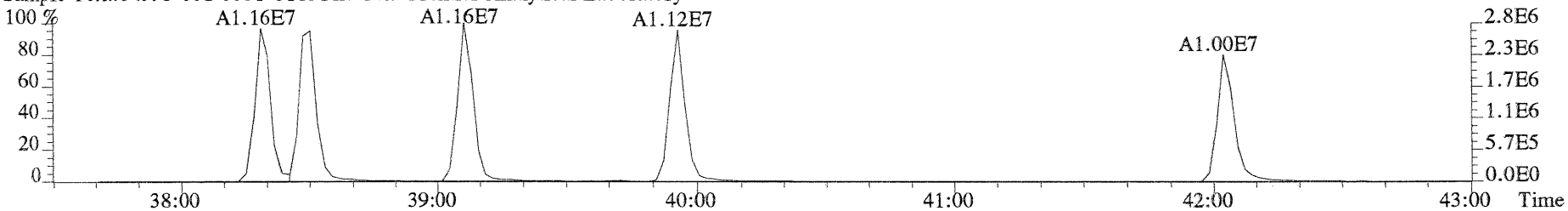
File:06AUG19Z #1-181 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



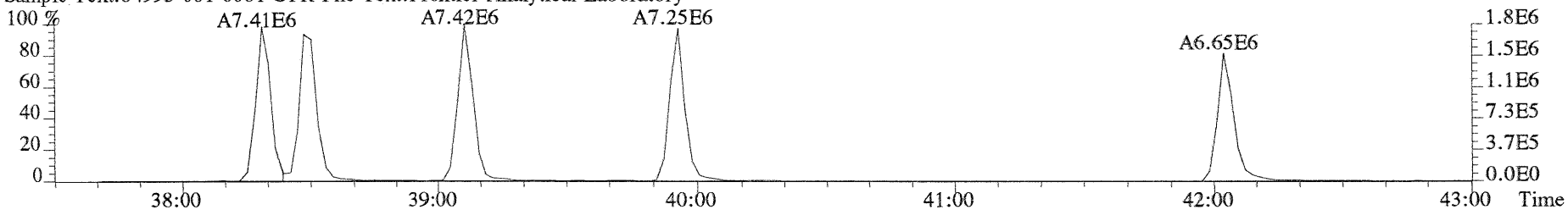
File:06AUG19Z #1-181 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



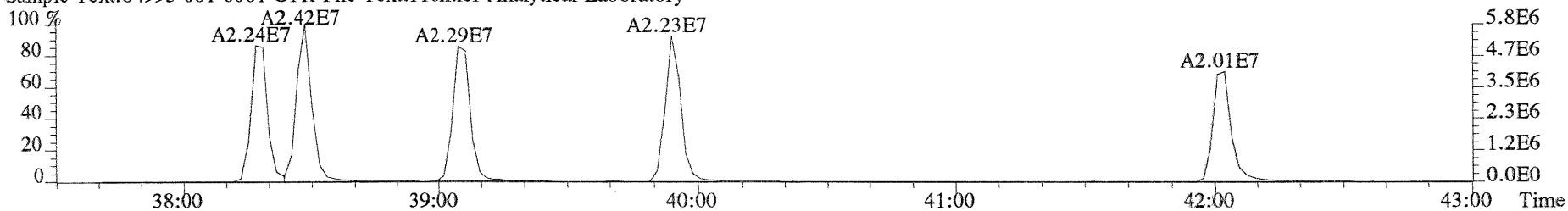
File:06AUG19Z #1-405 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



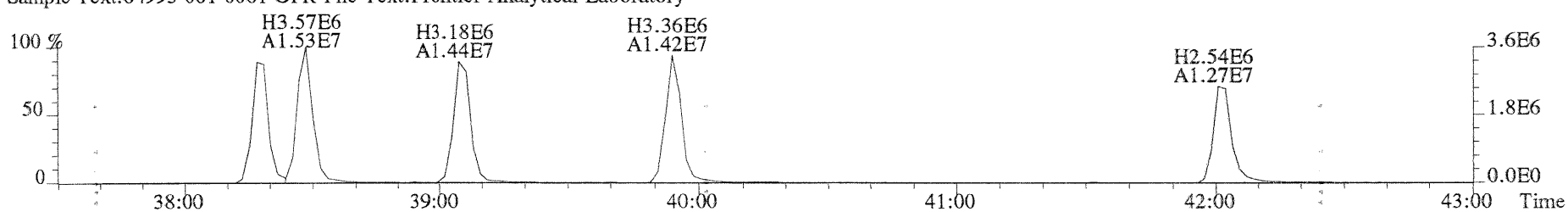
File:06AUG19Z #1-405 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



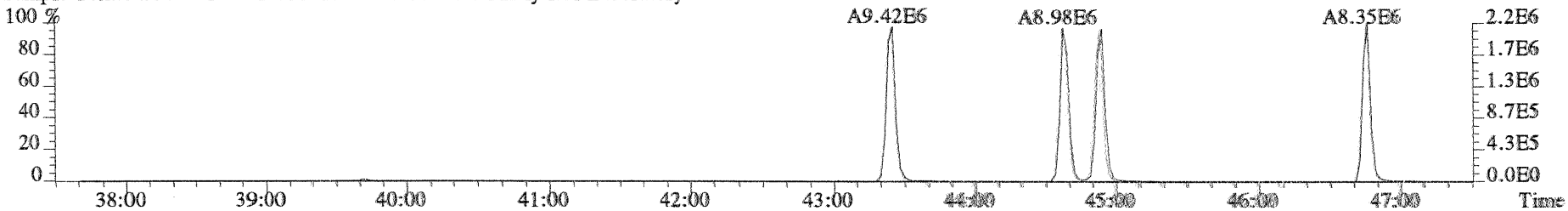
File:06AUG19Z #1-405 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



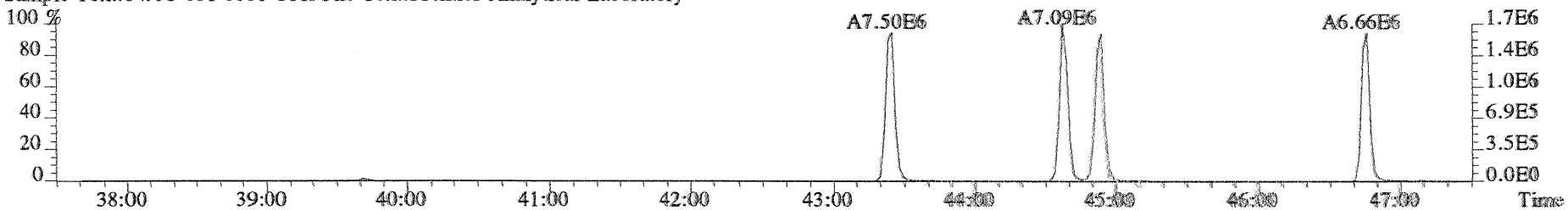
File:06AUG19Z #1-405 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-405 Acq: 6-AUG-2019 10:13:50 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:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-405 Acq: 6-AUG-2019 10:13:50 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:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-405 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
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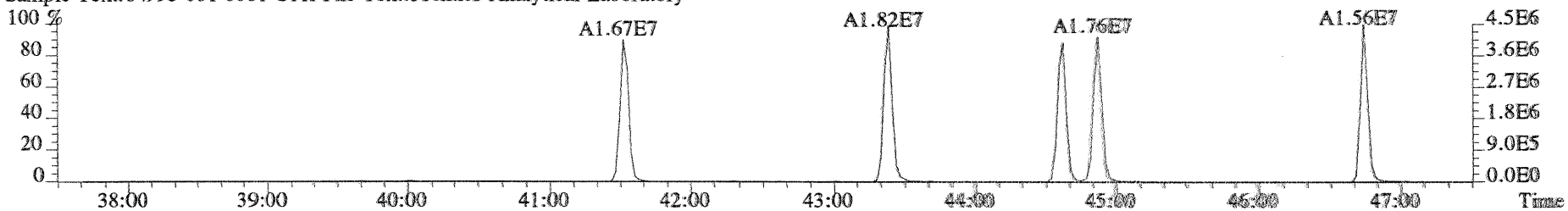
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



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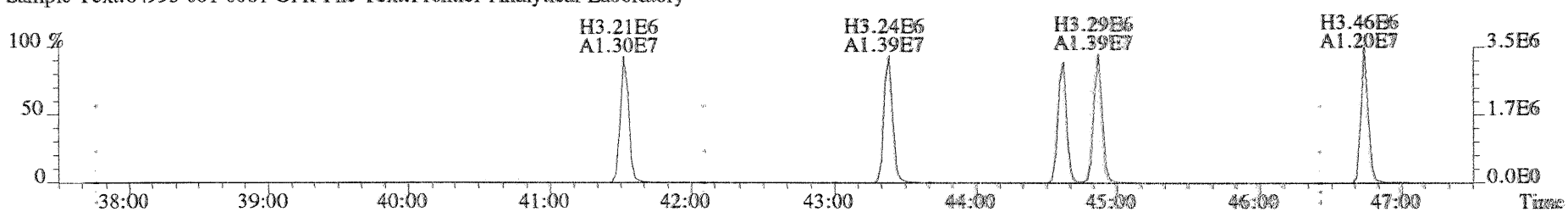
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



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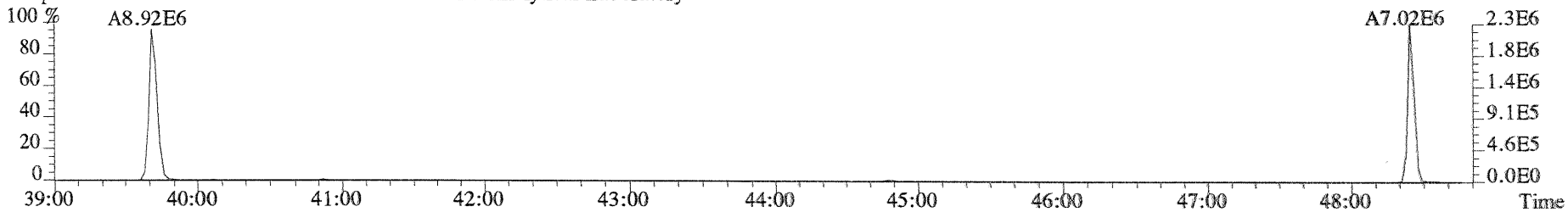
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



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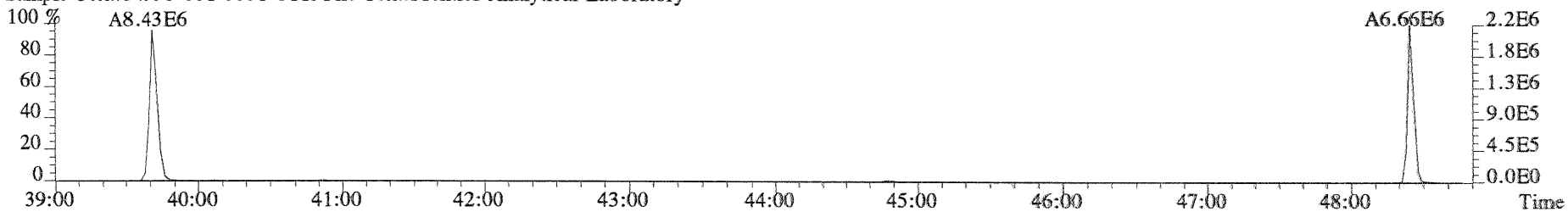
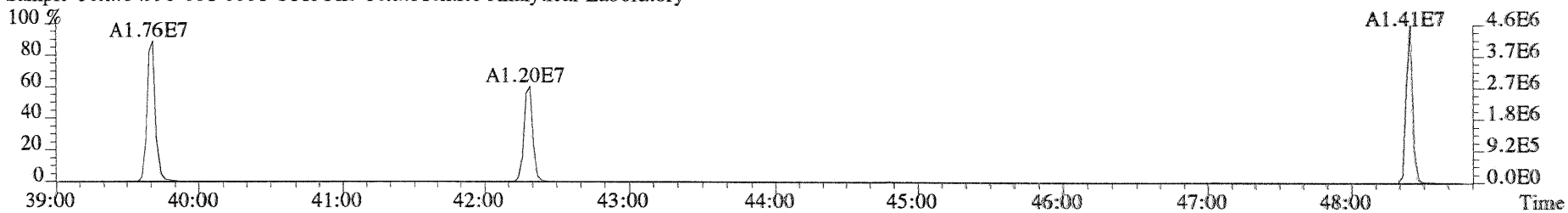
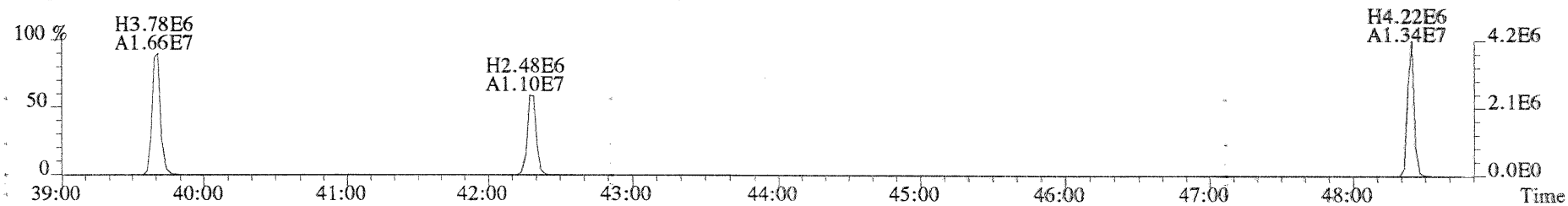
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



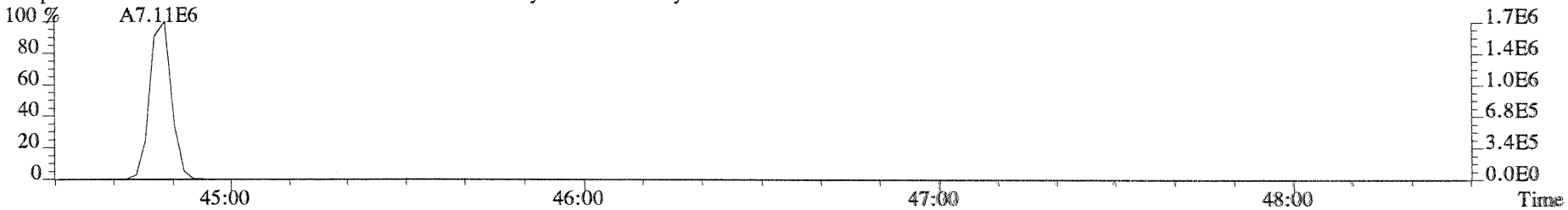
File:06AUG19Z #1-405 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



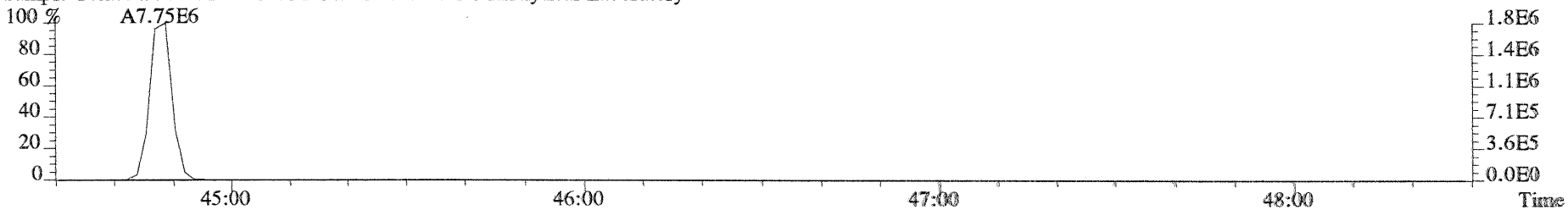
File:06AUG19Z #1-405 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



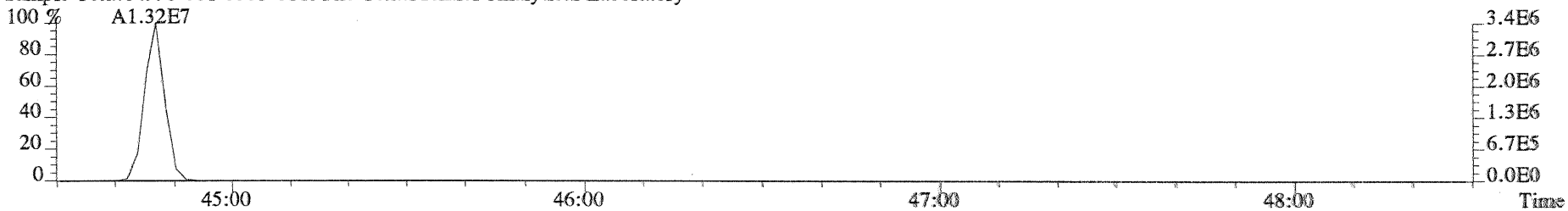
File:06AUG19Z #1-405 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



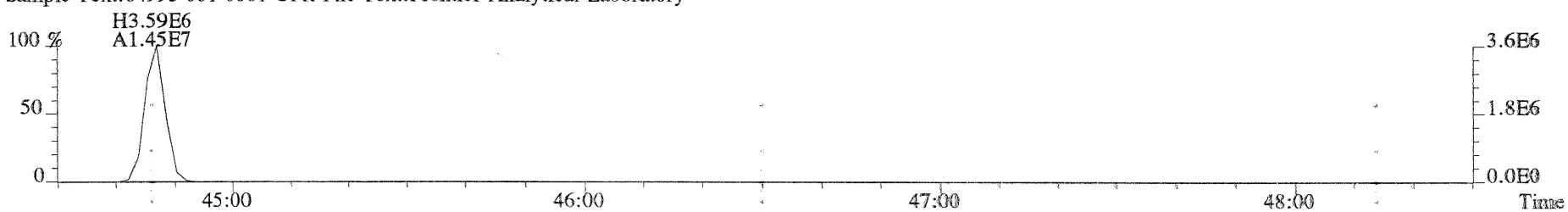
File:06AUG19Z #1-405 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



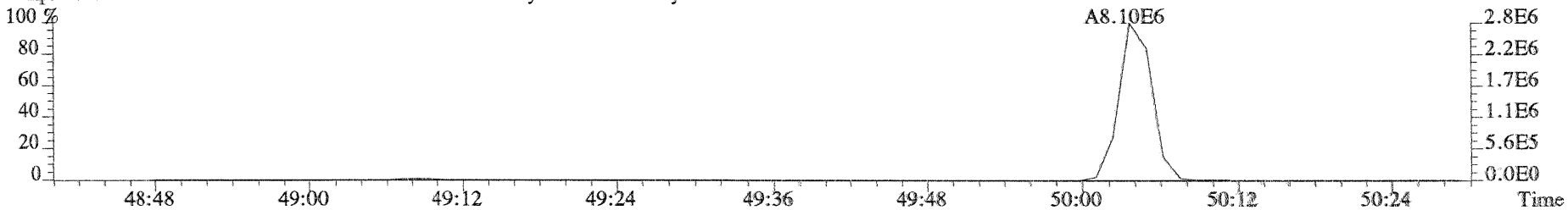
File:06AUG19Z #1-405 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



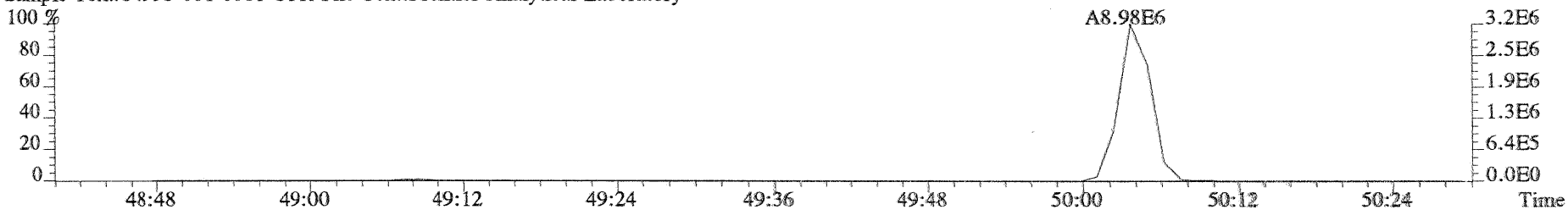
File:06AUG19Z #1-405 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



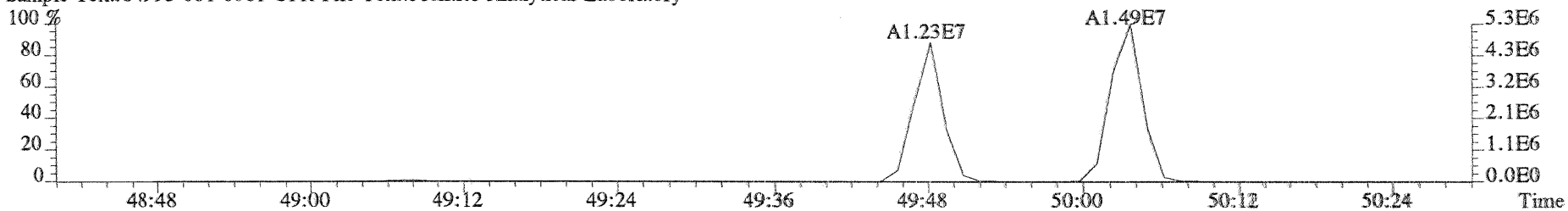
File:06AUG19Z #1-315 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



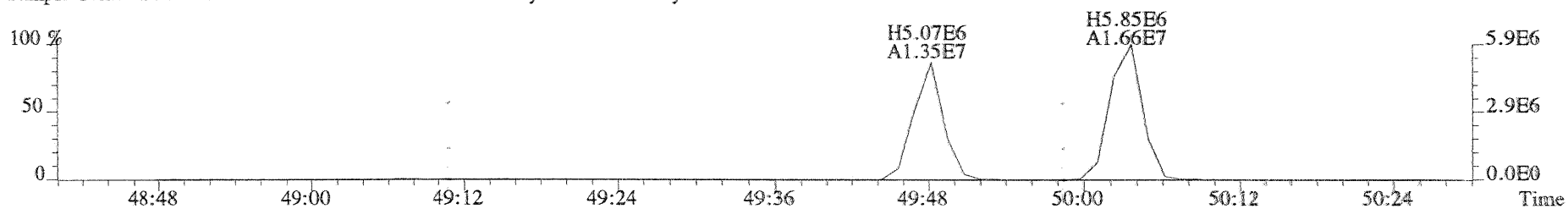
File:06AUG19Z #1-315 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



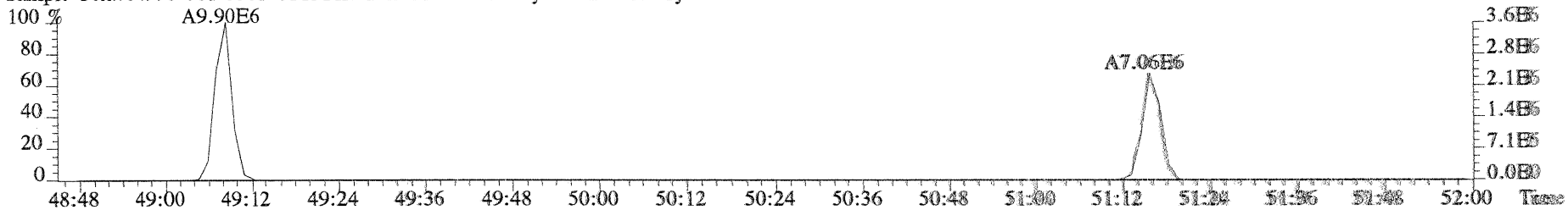
File:06AUG19Z #1-315 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



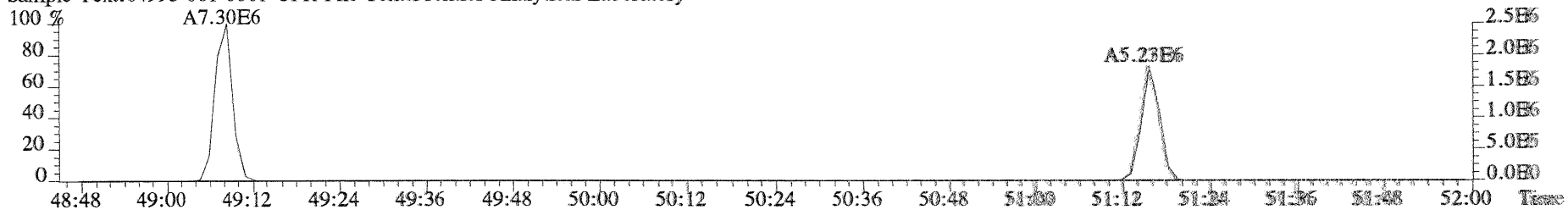
File:06AUG19Z #1-315 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



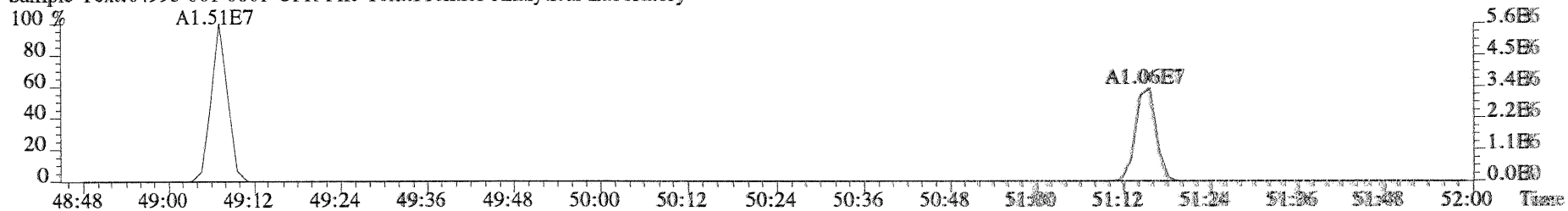
File:06AUG19Z #1-315 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



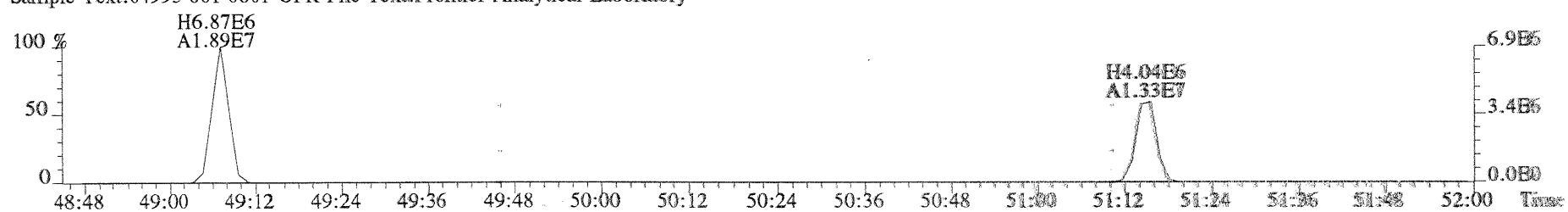
File:06AUG19Z #1-315 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



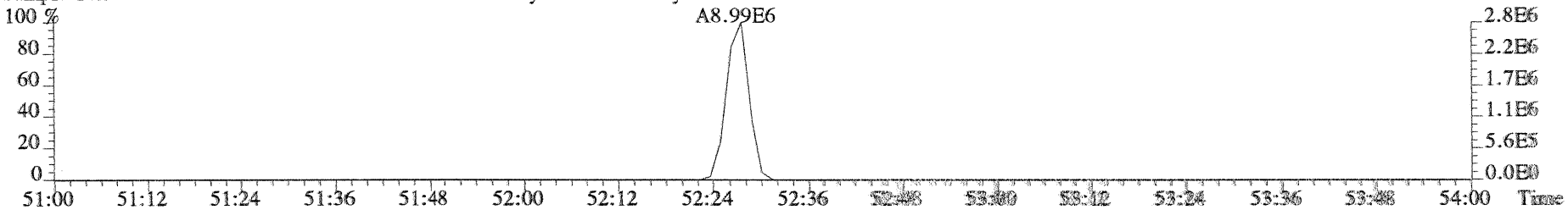
File:06AUG19Z #1-315 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



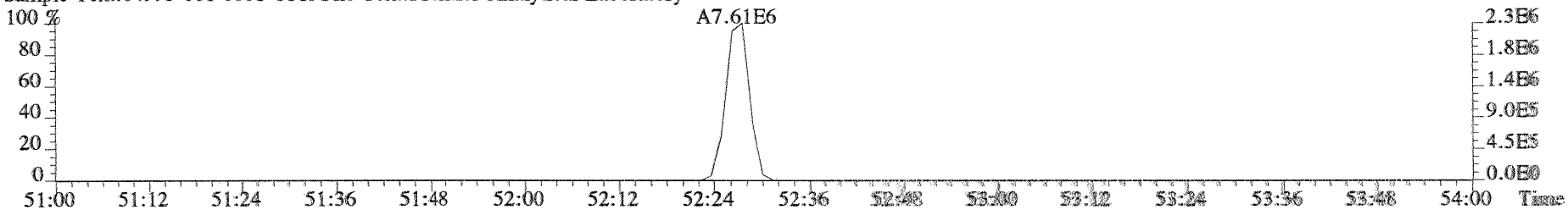
File:06AUG19Z #1-315 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



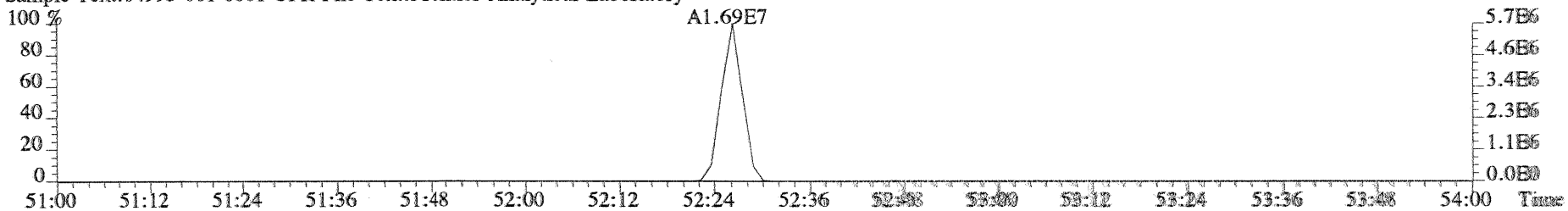
File:06AUG19Z #1-315 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



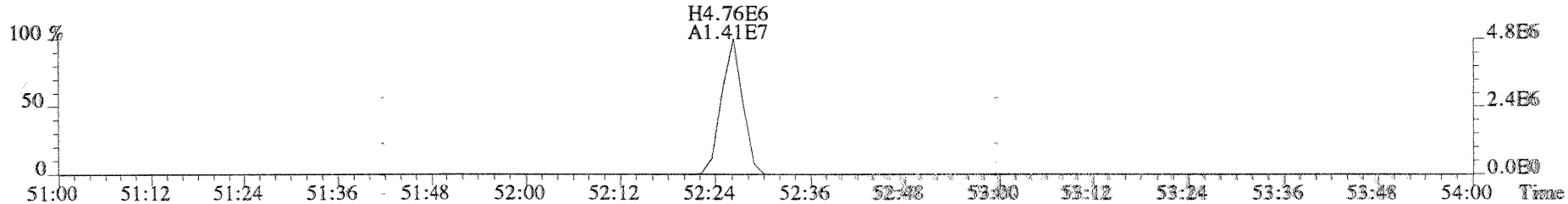
File:06AUG19Z #1-315 Acq: 6-AUG-2019 10:13:50 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-315 Acq: 6-AUG-2019 10:13:50 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:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-315 Acq: 6-AUG-2019 10:13:50 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:04993-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 12512-001-0001-SA Filename: 06AUG19Z Sam:5 Acquired: 6-AUG-19 12:10:57 ICal: DAILY209FAL4-8-6-19
Client ID: LDW-Y2-IN-ENR-CB-SSWI ConCal: ST080619Z1 EndCal: ST080619Z2
Results: Y GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	1.16	*		1420	1280	2.27	
13C-PCB-1	7.75e+07	3.24	y	14:32	0.90	7560					75.6
PCB-2	*	*	n	NotFnd	1.18	*		1420	1280	2.35	
PCB-3	*	*	n	NotFnd	1.17	*		1420	1280	2.46	
13C-PCB-3	8.27e+07	3.35	y	16:58	0.89	8170					81.7
PCB-4	3.31e+05	1.41	y	18:13	1.21	44.5		-	-	*	
PCB-10	*	*	n	NotFnd	1.31	*		853	7700	8.13	
13C-PCB-4	6.12e+07	1.58	y	18:11	0.67	8080					80.8
PCB-9	*	*	n	NotFnd	1.45	*		853	7700	7.38	
PCB-7	*	*	n	NotFnd	1.45	*		853	7700	7.35	
PCB-6	3.80e+05	1.54	y	20:30	1.48	32.5		-	-	*	
PCB-8	7.93e+05	1.41	y	20:53	1.40	71.8		-	-	*	
PCB-5	*	*	n	NotFnd	1.40	*		853	7700	7.64	
PCB-14	2.65e+06	1.43	y	21:57	1.29	260		-	-	*	
PCB-11	3.68e+05	1.47	y	23:06	1.18	39.4		-	-	*	
PCB-13	*	*	n	NotFnd	1.17	*		853	7700	9.10	
PCB-12	*	*	n	NotFnd	1.24	*		853	7700	8.63	
PCB-15	3.64e+05	1.50	y	23:45	1.10	34.0		-	-	*	
13C-PCB-15	9.69e+07	1.57	y	23:43	0.89	9630					96.3
PCB-19	2.23e+05	1.18	y	22:05	1.18	39.2		-	-	*	
PCB-30	*	*	n	NotFnd	1.71	*		1690	532	2.40	
PCB-18	1.60e+06	1.08	y	23:38	1.12	299		-	-	*	
PCB-17	6.98e+05	1.05	y	23:47	1.24	117		-	-	*	
PCB-27	1.50e+05	1.03	y	24:19	1.63	19.1	J	-	-	*	
PCB-24	1.64e+05	1.16	y	24:20	1.56	22.0		-	-	*	
PCB-16	3.94e+05	1.11	y	24:48	1.31	62.4		-	-	*	
PCB-32	5.44e+05	1.02	y	24:50	1.43	79.5		-	-	*	
13C-PCB-19	4.80e+07	1.08	y	22:04	0.50	8430					84.3
13C-PCB-9	1.13e+08	1.59	y	19:52	-	51.7					
PCB-34	*	*	n	NotFnd	1.29	*		1220	1240	3.37	
PCB-23	*	*	n	NotFnd	1.31	*		1220	1240	3.34	
PCB-29	*	*	n	NotFnd	1.26	*		1220	1240	3.47	
PCB-26	1.00e+06	1.03	y	26:06	1.29	103		-	-	*	
PCB-25	4.89e+05	1.03	y	26:16	1.28	51.0		-	-	*	
PCB-31	2.39e+06	1.02	y	26:35	1.28	248		-	-	*	
PCB-28	2.49e+06	1.11	y	26:41	1.52	219		-	-	*	
PCB-20	1.01e+06	1.05	y	27:18	1.26	107		-	-	*	Co-elute PCB 21/33
PCB-21	1.01e+06	1.05	y	27:18	1.26	107		-	-	*	Co-elute PCB 20/33
PCB-33	1.01e+06	1.05	y	27:18	1.26	107		-	-	*	Co-elute PCB 20/21
PCB-22	6.99e+05	1.05	y	27:42	1.33	70.0		-	-	*	
PCB-36	5.75e+06	1.05	y	28:17	1.21	632		-	-	*	
PCB-39	*	*	n	NotFnd	1.20	*		1220	1240	3.64	
PCB-38	*	*	n	NotFnd	1.20	*		1220	1240	3.64	
PCB-35	*	*	n	NotFnd	1.10	*		1220	1240	3.98	
PCB-37	3.25e+05	1.08	y	30:23	1.15	37.6		-	-	*	
13C-PCB-37	7.50e+07	1.05	y	30:21	1.41	8710					87.1

PCB-54	*	*	n	NotFnd	1.15	*		744	1110	2.40	
PCB-50	4.08e+04	0.86	y	26:43	0.93	7.03	J	-	-	*	
PCB-53	4.36e+05	0.77	y	27:19	0.91	76.4		-	-	*	
PCB-51	1.27e+05	0.79	y	27:38	0.91	22.2		-	-	*	
PCB-45	2.94e+05	0.82	y	28:04	0.77	60.7		-	-	*	
PCB-46	1.15e+05	0.81	y	28:30	0.73	25.1		-	-	*	
PCB-52	4.55e+06	0.81	y	28:57	0.87	831		-	-	*	Co-elute PCB 69
PCB-69	4.55e+06	0.81	y	28:57	0.87	831		-	-	*	Co-elute PCB 52
PCB-73	1.58e+05	0.86	y	29:04	1.14	22.0		-	-	*	
PCB-43	2.33e+06	0.81	y	29:14	0.78	473		-	-	*	Co-elute PCB 49
PCB-49	2.33e+06	0.81	y	29:14	0.78	473		-	-	*	Co-elute PCB 43
PCB-47	8.06e+05	0.82	y	29:26	0.81	158		-	-	*	
PCB-48	4.88e+05	0.83	y	29:32	0.99	78.6		-	-	*	Co-elute PCB 75
PCB-75	4.88e+05	0.83	y	29:32	0.99	78.6		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*		744	1110	2.81	
PCB-62	*	*	n	NotFnd	1.08	*		744	1110	2.56	
PCB-44	1.70e+06	0.85	y	30:11	0.68	398		-	-	*	
PCB-42	7.39e+05	0.79	y	30:24	0.87	135		-	-	*	Co-elute PCB 59
PCB-59	7.39e+05	0.79	y	30:24	0.87	135		-	-	*	Co-elute PCB 42
PCB-72	1.69e+06	0.84	y	30:58	0.96	280		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.69e+06	0.84	y	30:58	0.96	280		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.69e+06	0.84	y	30:58	0.96	280		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.69e+06	0.84	y	30:58	0.96	280		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.07e+05	0.71	y	31:12	1.09	15.6	J	-	-	*	
PCB-40	2.05e+05	0.76	y	31:25	0.61	53.8		-	-	*	
PCB-57	*	*	n	NotFnd	0.96	*		744	1110	2.90	
PCB-67	9.53e+04	0.84	y	32:03	0.98	15.4	J	-	-	*	
PCB-58	*	*	n	NotFnd	0.98	*		744	1110	2.82	
PCB-63	9.39e+04	0.88	y	32:16	0.96	15.5	J	-	-	*	
PCB-74	7.89e+05	0.80	y	32:34	0.96	130		-	-	*	
PCB-61	1.80e+06	0.82	y	32:46	0.92	310		-	-	*	Co-elute PCB 70
PCB-70	1.80e+06	0.82	y	32:46	0.92	310		-	-	*	Co-elute PCB 61
PCB-76	1.70e+06	0.81	y	32:58	1.00	270		-	-	*	Co-elute PCB 66
PCB-66	1.70e+06	0.81	y	32:58	1.00	270		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.16	*		744	1110	2.39	
PCB-55	2.58e+05	0.88	y	33:30	1.01	40.8		-	-	*	
13C-PCB-54	6.28e+07	0.81	y	25:36	1.31	7880					78.8
PCB-104	1.24e+07	1.56	y	30:02	1.09	2100		-	-	*	
PCB-96	4.50e+04	1.40	y	31:14	1.01	8.23	J	-	-	*	
PCB-103	6.10e+04	1.36	y	31:44	0.80	14.2	J	-	-	*	
PCB-100	6.03e+04	1.57	y	32:05	0.79	14.0	J	-	-	*	
PCB-94	*	*	n	NotFnd	0.65	*		332	428	2.27	
PCB-98	*	*	n	NotFnd	0.70	*		332	428	2.09	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.70	*		332	428	2.09	Co-elute PCB 98
PCB-95	2.90e+06	1.57	y	33:02	0.68	784		-	-	*	
PCB-93	*	*	n	NotFnd	0.65	*		332	428	2.26	
PCB-88	*	*	n	NotFnd	0.73	*		332	428	2.01	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.73	*		332	428	2.01	Co-elute PCB 88
PCB-121	2.07e+07	1.58	y	33:28	0.89	4280		-	-	*	
13C-PCB-104	5.42e+07	1.60	y	30:01	1.05	8470					84.7
13C-PCB-28	1.03e+08	1.06	y	26:40	1.82	9350					93.5
13C-PCB-52	6.09e+07	0.82	y	28:55	-	64.5					

PCB-56	8.67e+05	0.73	y	33:56	1.12	127		-	-	*	Co-elute PCB 60
PCB-60	8.67e+05	0.73	y	33:56	1.12	127		-	-	*	Co-elute PCB 56
PCB-79	6.77e+04	0.75	y	34:57	1.14	9.74	J	-	-	*	
PCB-78	1.54e+07	0.77	y	35:37	1.11	2280		-	-	*	
PCB-81	1.92e+05	0.78	y	36:09	1.21	26.3		-	-	*	
13C-PCB-81	6.03e+07	0.80	y	36:06	1.53	8720					87.2
PCB-77	1.41e+05	0.87	y	36:42	1.04	21.9		-	-	*	
13C-PCB-77	6.17e+07	0.81	y	36:40	1.58	8610					86.1
PCB-155	2.14e+07	1.27	y	34:11	1.03	3940		-	-	*	
PCB-150	*	*	n	NotFnd	0.99	*		516	392	1.78	
PCB-152	*	*	n	NotFnd	0.97	*		516	392	1.81	
PCB-145	*	*	n	NotFnd	1.01	*		516	392	1.74	
PCB-136	4.02e+05	1.21	y	36:34	0.96	79.7		-	-	*	
PCB-148	*	*	n	NotFnd	0.72	*		516	392	2.45	
PCB-154	9.42e+04	1.26	y	37:07	0.79	22.7		-	-	*	
13C-PCB-155	5.27e+07	1.28	y	34:10	1.32	8830					88.3
13C-PCB-111	5.21e+07	1.62	y	36:15	1.22	9460					94.6
13C-PCB-101	4.52e+07	1.59	y	34:36	-	62.7					
PCB-84	1.64e+06	1.53	y	34:16	0.75	410		-	-	*	Co-elute PCB 92
PCB-92	1.64e+06	1.53	y	34:16	0.75	410		-	-	*	Co-elute PCB 84
PCB-89	3.98e+04	1.39	y	34:26	0.78	9.59	J	-	-	*	
PCB-90	3.03e+06	1.60	y	34:38	0.88	652		-	-	*	Co-elute PCB 101
PCB-101	3.03e+06	1.60	y	34:38	0.88	652		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.94	*		1260	1050	5.29	
PCB-99	1.48e+06	1.58	y	34:57	1.00	278		-	-	*	
PCB-119	1.25e+05	1.56	y	35:22	1.10	21.4		-	-	*	
PCB-83	1.78e+05	1.66	y	35:32	0.87	38.5		-	-	*	Co-elute PCB 112
PCB-112	1.78e+05	1.66	y	35:32	0.87	38.5		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.06	*		1260	1050	4.72	
PCB-97	7.18e+05	1.48	y	35:52	0.73	184		-	-	*	
PCB-86	*	*	n	NotFnd	0.73	*		1260	1050	6.79	
PCB-125	1.16e+06	1.57	y	36:09	0.97	224		-	-	*	Co-elute PCB 87/117
PCB-87	1.16e+06	1.57	y	36:09	0.97	224		-	-	*	Co-elute PCB 125/117
PCB-117	1.16e+06	1.57	y	36:09	0.97	224		-	-	*	Co-elute PCB 125/87
PCB-111	8.36e+04	1.57	y	36:16	1.17	13.5	J	-	-	*	Co-elute PCB 115
PCB-115	8.36e+04	1.57	y	36:16	1.17	13.5	J	-	-	*	Co-elute PCB 111
PCB-85	4.36e+05	1.62	y	36:23	0.90	90.8		-	-	*	Co-elute PCB 116
PCB-116	4.36e+05	1.62	y	36:23	0.90	90.8		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.13	*		1260	1050	4.42	
PCB-110	3.83e+06	1.62	y	36:45	1.09	661		-	-	*	
PCB-82	2.12e+05	1.67	y	37:22	0.63	63.4		-	-	*	
PCB-124	1.20e+05	1.70	y	38:01	1.06	21.4		-	-	*	
PCB-108	2.10e+05	1.40	y	38:10	1.09	36.1		-	-	*	Co-elute PCB 107
PCB-107	2.10e+05	1.40	y	38:10	1.09	36.1		-	-	*	Co-elute PCB 108
PCB-123	4.99e+04	1.43	y	38:18	1.05	9.06	J	-	-	*	
13C-PCB-123	5.23e+07	1.60	y	38:18	1.27	9860					98.6
PCB-118	2.22e+06	1.47	y	38:29	1.05	380		-	-	*	Co-elute PCB 106
PCB-106	2.22e+06	1.47	y	38:29	1.05	380		-	-	*	Co-elute PCB 118
13C-PCB-118	5.57e+07	1.57	y	38:28	1.44	9220					92.2
PCB-114	5.47e+04	1.43	y	39:06	1.11	9.18	J	-	-	*	
13C-PCB-114	5.35e+07	1.58	y	39:04	1.35	9440					94.4
PCB-122	*	*	n	NotFnd	1.09	*		828	924	3.47	
PCB-105	7.04e+05	1.39	y	39:55	1.14	121		-	-	*	
13C-PCB-105	5.12e+07	1.60	y	39:53	1.37	8920					89.2

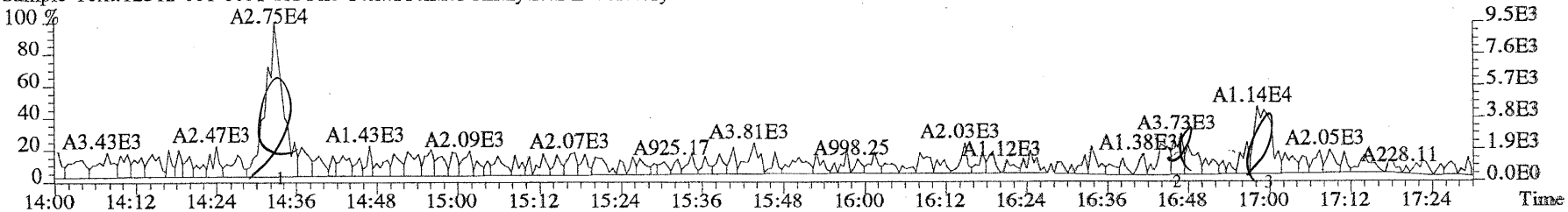
PCB-127	*	*	n	NotFnd	1.04	*		828	924	3.64	
PCB-126	*	*	n	NotFnd	1.09	*		828	924	4.40	
13C-PCB-126	4.72e+07	1.62	y	42:02	1.26	8960					89.6
PCB-151	4.50e+05	1.21	y	37:45	0.84	131		-	-	*	
PCB-135	3.06e+05	1.30	y	37:56	0.88	84.8		-	-	*	
PCB-144	8.94e+04	1.19	y	38:03	0.89	24.6		-	-	*	
PCB-147	6.93e+04	1.37	y	38:10	0.97	17.5	J	-	-	*	
PCB-139	1.68e+06	1.27	y	38:24	0.98	418		-	-	*	Co-elute PCB 149
PCB-149	1.68e+06	1.27	y	38:24	0.98	418		-	-	*	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.96	*		912	684	4.38	
PCB-143	1.22e+05	1.10	y	39:01	0.79	37.7		-	-	*	Co-elute PCB 134
PCB-134	1.22e+05	1.10	y	39:01	0.79	37.7		-	-	*	Co-elute PCB 143
PCB-131	5.43e+04	1.34	y	39:17	0.79	16.9	J	-	-	*	Co-elute PCB 133
PCB-133	5.43e+04	1.34	y	39:17	0.79	16.9	J	-	-	*	Co-elute PCB 131
PCB-142	4.17e+07	1.28	y	39:27	0.82	12400		-	-	*	
PCB-165	5.12e+05	1.30	y	39:38	1.09	115		-	-	*	Co-elute PCB 146
PCB-146	5.12e+05	1.30	y	39:38	1.09	115		-	-	*	Co-elute PCB 165
PCB-161	6.32e+05	1.30	y	39:55	1.04	148		-	-	*	Co-elute PCB 132
PCB-132	6.32e+05	1.30	y	39:55	1.04	148		-	-	*	Co-elute PCB 161
PCB-153	2.12e+06	1.29	y	40:01	1.03	502		-	-	*	
PCB-168	*	*	n	NotFnd	1.23	*		912	684	3.44	
PCB-141	2.74e+05	1.19	y	40:44	0.89	75.6		-	-	*	
PCB-137	8.66e+04	1.38	y	41:06	0.89	23.7		-	-	*	
PCB-130	1.14e+05	1.31	y	41:12	0.73	38.1		-	-	*	
PCB-138	1.77e+06	1.27	y	41:32	1.08	400		-	-	*	Co-elute PCB 163/164
PCB-163	1.77e+06	1.27	y	41:32	1.08	400		-	-	*	Co-elute PCB 138/164
PCB-164	1.77e+06	1.27	y	41:32	1.08	400		-	-	*	Co-elute PCB 138/163
PCB-158	2.23e+05	1.19	y	41:45	1.20	45.3		-	-	*	Co-elute PCB 160
PCB-160	2.23e+05	1.19	y	41:45	1.20	45.3		-	-	*	Co-elute PCB 158
PCB-129	7.08e+04	1.18	y	42:00	0.76	22.9		-	-	*	
PCB-166	*	*	n	NotFnd	1.12	*		912	684	3.77	
PCB-159	4.22e+04	1.19	y	42:46	1.22	8.47	J	-	-	*	
PCB-128	2.89e+05	1.32	y	43:01	0.99	71.2		-	-	*	Co-elute PCB 162
PCB-162	2.89e+05	1.32	y	43:01	0.99	71.2		-	-	*	Co-elute PCB 128
PCB-167	8.17e+04	1.34	y	43:24	1.10	18.0	J	-	-	*	
13C-PCB-167	4.11e+07	1.31	y	43:22	1.18	8340					83.4
PCB-156	1.43e+05	1.22	y	44:36	1.18	30.1		-	-	*	
13C-PCB-156	4.01e+07	1.31	y	44:36	1.15	8320					83.2
PCB-157	4.59e+04	1.28	y	44:53	1.12	10.1	J	-	-	*	
13C-PCB-157	4.09e+07	1.31	y	44:51	1.18	8310					83.1
PCB-169	*	*	n	NotFnd	1.08	*		912	684	3.33	
13C-PCB-169	4.13e+07	1.28	y	46:43	1.06	9330					93.3

FAL ID: 12512-001-0001-SA Filename: 06AUG19Z Sam:5 Acquired: 6-AUG-19 12:10:57 ICal: DAILY209FAL4-8-6-19
Client ID: LDW-Y2-IN-ENR-CB-SSWI ConCal: ST080619Z1 EndCal: ST080619Z2
Results: Y GC Column: DB1MS Amount: 1.000

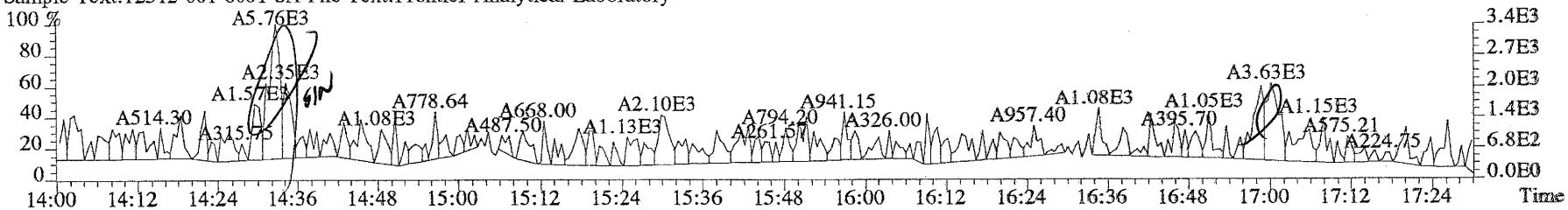
PCB-188	4.28e+04	1.17	y	39:40	1.02	9.64	J	-	-	*	
13C-PCB-188	4.36e+07	1.08	y	39:38	1.19	8740					87.4
PCB-184	2.48e+07	1.05	y	40:06	1.15	5000		-	-	*	
PCB-179	1.61e+05	1.13	y	40:49	1.09	34.4		-	-	*	
PCB-176	4.24e+04	1.13	y	41:17	1.05	9.41	J	-	-	*	
PCB-186	3.09e+04	1.06	y	41:52	1.08	6.66	J	-	-	*	
PCB-178	5.70e+04	0.95	y	42:20	0.70	18.9	J	-	-	*	
PCB-175	*	*	n	NotFnd	0.76	*		772	352	3.25	
PCB-187	2.77e+05	1.02	y	42:46	0.84	76.4		-	-	*	Co-elute PCB 182
PCB-182	2.77e+05	1.02	y	42:46	0.84	76.4		-	-	*	Co-elute PCB 187
PCB-183	1.33e+05	1.12	y	43:06	0.81	38.2		-	-	*	
PCB-185	2.69e+04	1.17	y	43:44	0.74	8.46	J	-	-	*	
PCB-174	1.61e+05	1.12	y	44:03	0.74	50.8		-	-	*	
PCB-181	2.68e+04	0.98	y	44:12	0.80	7.80	J	-	-	*	
PCB-177	1.04e+05	0.95	y	44:20	0.70	34.7		-	-	*	
PCB-171	4.98e+04	1.11	y	44:36	0.76	15.3	J	-	-	*	
PCB-173	*	*	n	NotFnd	0.66	*		772	352	3.72	
PCB-172	3.86e+05	0.99	y	45:22	0.67	134		-	-	*	
PCB-192	1.55e+07	1.04	y	45:36	0.91	3960		-	-	*	
PCB-180	3.80e+05	0.95	y	45:45	0.69	128		-	-	*	
PCB-193	3.87e+04	1.09	y	45:55	0.98	9.16	J	-	-	*	
PCB-191	*	*	n	NotFnd	0.96	*		772	352	2.57	
PCB-170	1.20e+05	0.97	y	47:03	0.69	40.6		-	-	*	
PCB-190	3.93e+04	0.90	y	47:13	0.93	9.85	J	-	-	*	
PCB-189	*	*	n	NotFnd	0.98	*		772	352	2.03	
13C-PCB-189	4.24e+07	1.07	y	48:24	1.01	10100					101
PCB-202	2.54e+04	0.83	y	44:46	1.00	7.49	J	-	-	*	
PCB-201	*	*	n	NotFnd	1.03	*		240	420	2.11	
PCB-204	3.76e+07	0.91	y	45:22	1.02	10800		-	-	*	
PCB-197	2.08e+05	0.93	y	45:39	1.09	56.4		-	-	*	
PCB-200	*	*	n	NotFnd	1.07	*		240	420	2.04	
PCB-198	*	*	n	NotFnd	0.69	*		240	420	3.15	
PCB-199	5.83e+04	1.00	y	47:39	0.77	22.4		-	-	*	
PCB-203	5.63e+04	0.98	y	47:54	0.83	20.1		-	-	*	Co-elute PCB 196
PCB-196	5.63e+04	0.98	y	47:54	0.83	20.1		-	-	*	Co-elute PCB 203
13C-PCB-202	3.38e+07	0.90	y	44:46	0.96	8390					83.9
13C-PCB-178	3.08e+07	1.08	y	42:16	0.77	9560					95.6
13C-PCB-138	4.19e+07	1.30	y	41:30	-	59.9					
PCB-195	2.93e+04	0.98	y	49:00	0.81	7.67	J	-	-	*	
PCB-194	5.23e+04	0.87	y	49:48	0.89	12.3	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.11	*		824	1070	2.60	
13C-PCB-205	4.75e+07	0.89	y	50:03	1.26	8750					87.5
PCB-208	2.04e+04	1.32	y	49:07	1.01	4.76	J	-	-	*	
13C-PCB-208	4.26e+07	0.80	y	49:07	1.35	7300					73.0
PCB-207	1.96e+05	1.47	y	49:25	1.13	46.0		-	-	*	
PCB-206	1.96e+04	1.47	y	51:15	1.04	5.74	J	-	-	*	
13C-PCB-206	3.31e+07	0.81	y	51:15	0.93	8250					82.5
PCB-209	2.43e+05	1.13	y	52:27	1.10	55.7		-	-	*	
13C-PCB-209	3.99e+07	1.18	y	52:26	1.19	7790					77.9
13C-PCB-194	4.32e+07	0.91	y	49:48	-	72.7					

Analyst: _____ Date: 8/7/19

File:06AUG19Z #1-783 Acq: 6-AUG-2019 12:10:57 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:12512-001-0001-SA File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-783 Acq: 6-AUG-2019 12:10:57 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:12512-001-0001-SA File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-783 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
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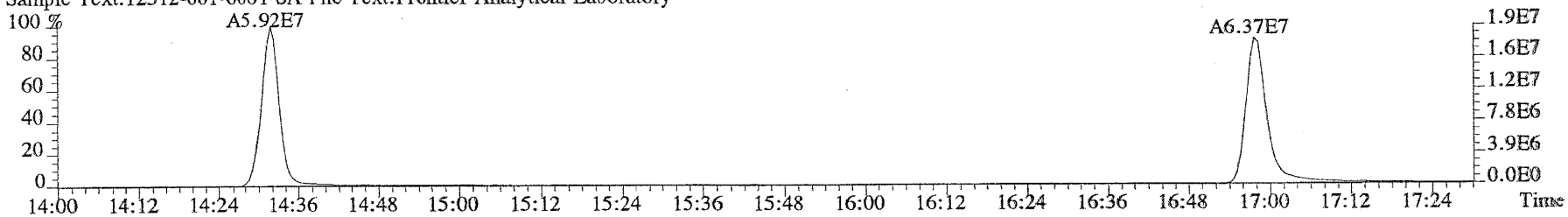
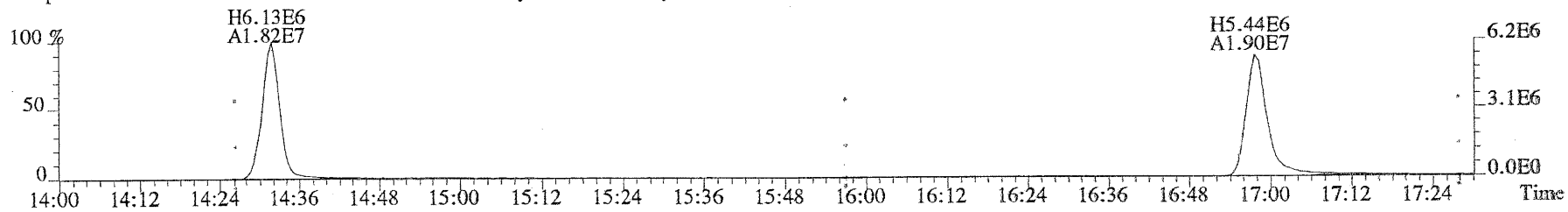
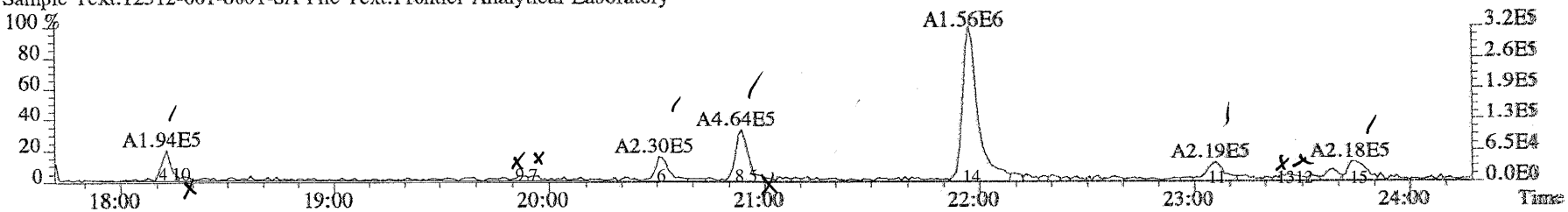
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



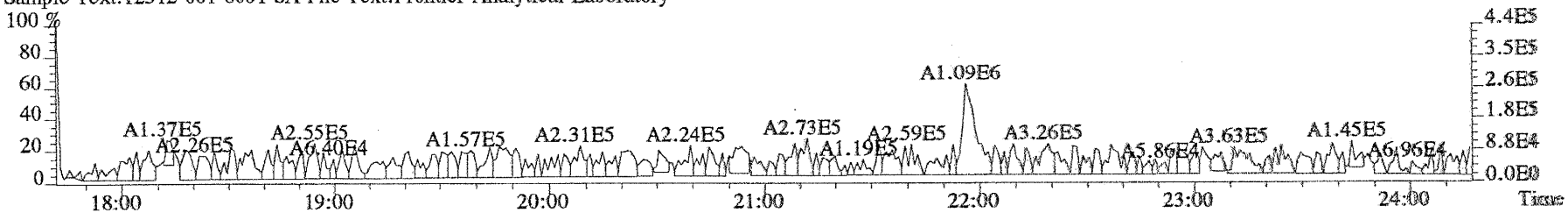
File:06AUG19Z #1-783 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



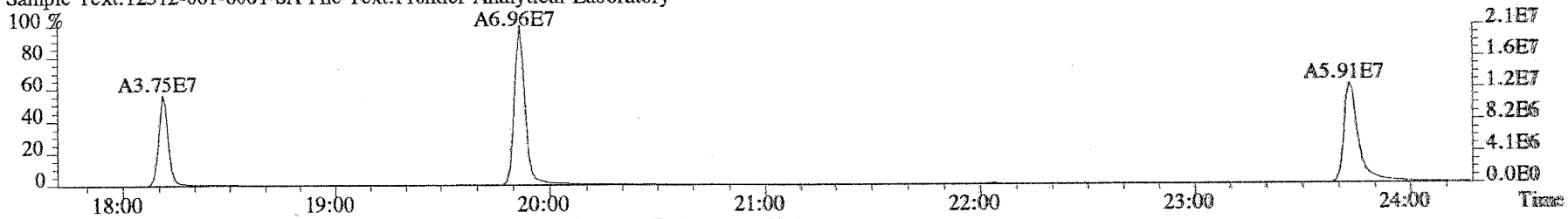
File:06AUG19Z #1-521 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



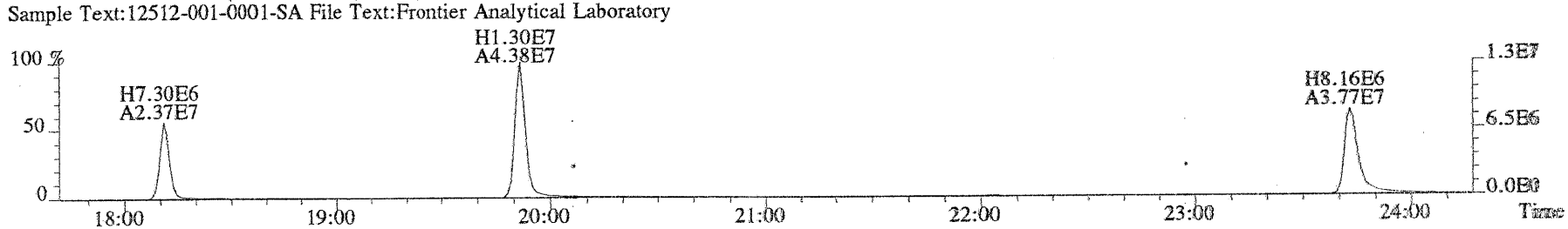
File:06AUG19Z #1-521 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



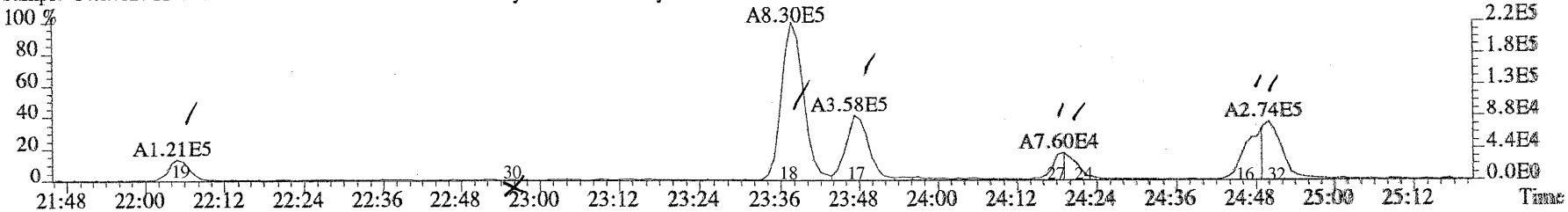
File:06AUG19Z #1-521 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



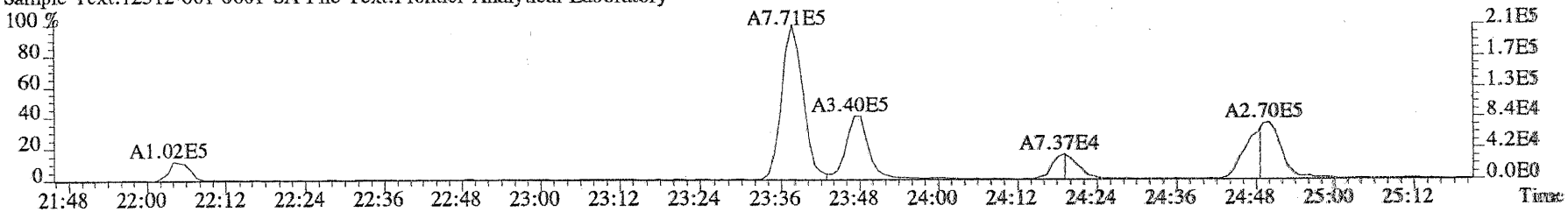
File:06AUG19Z #1-521 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



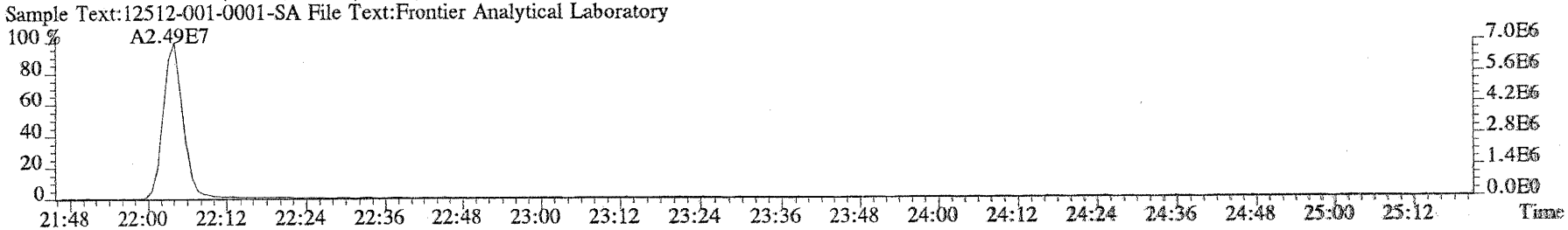
File:06AUG19Z #1-521 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



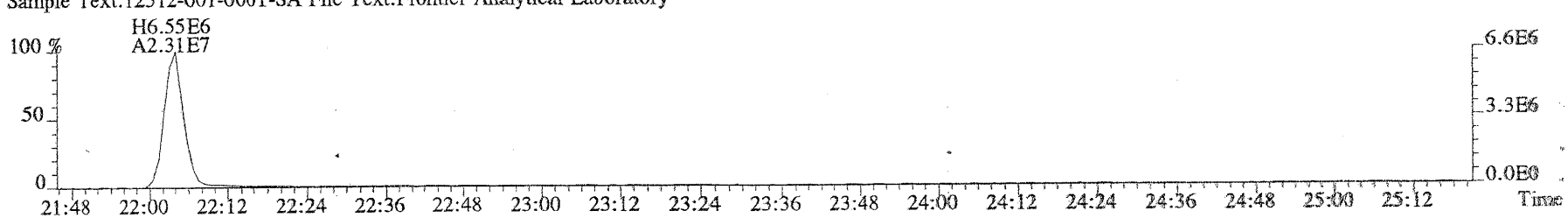
File:06AUG19Z #1-521 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



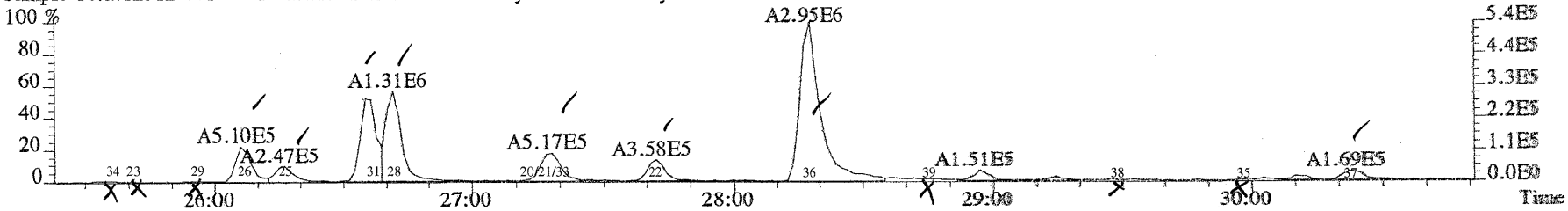
File:06AUG19Z #1-521 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



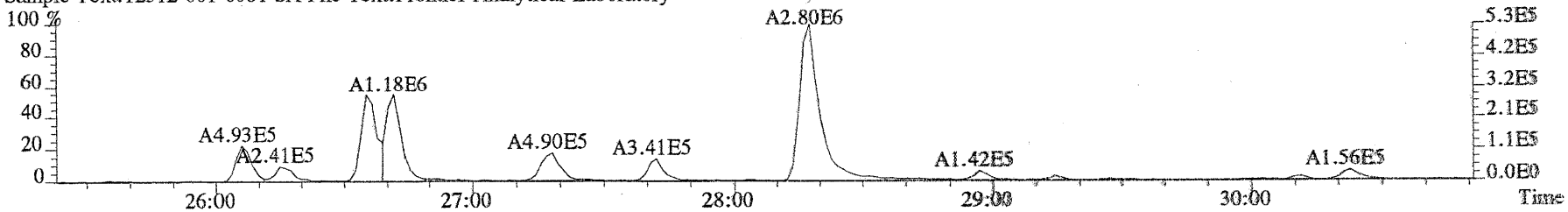
File:06AUG19Z #1-521 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



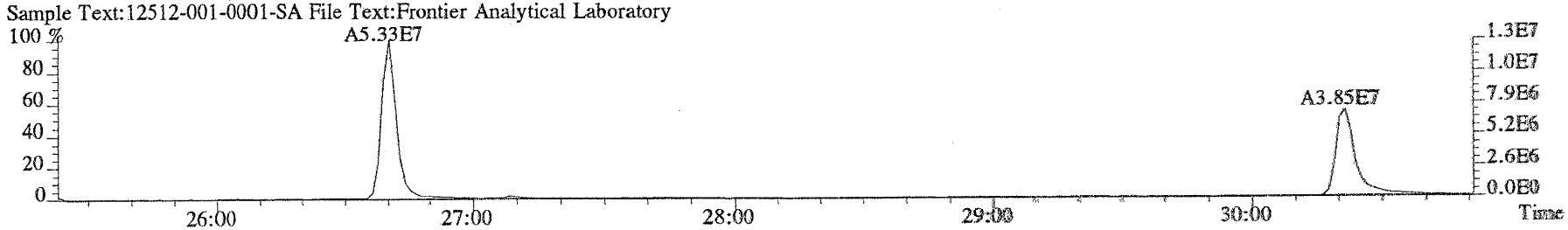
File:06AUG19Z #1-401 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



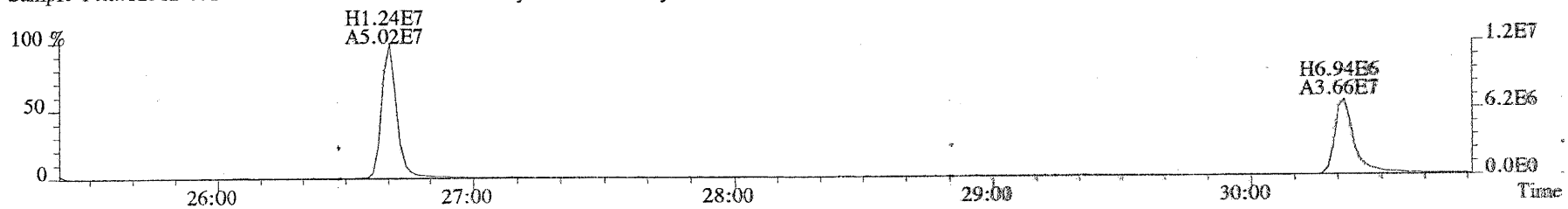
File:06AUG19Z #1-401 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



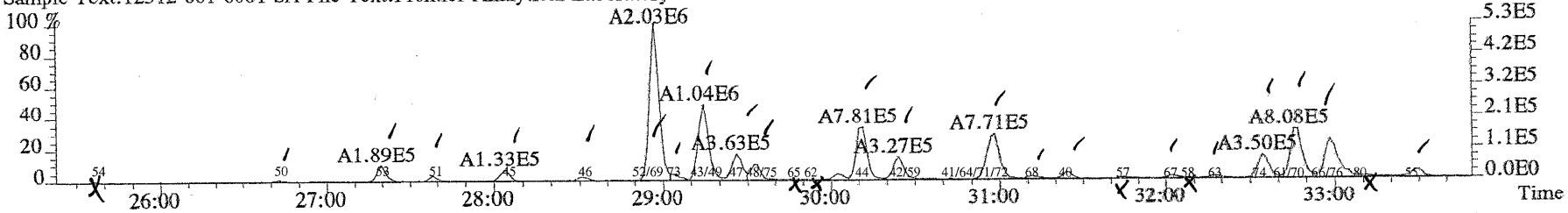
File:06AUG19Z #1-401 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



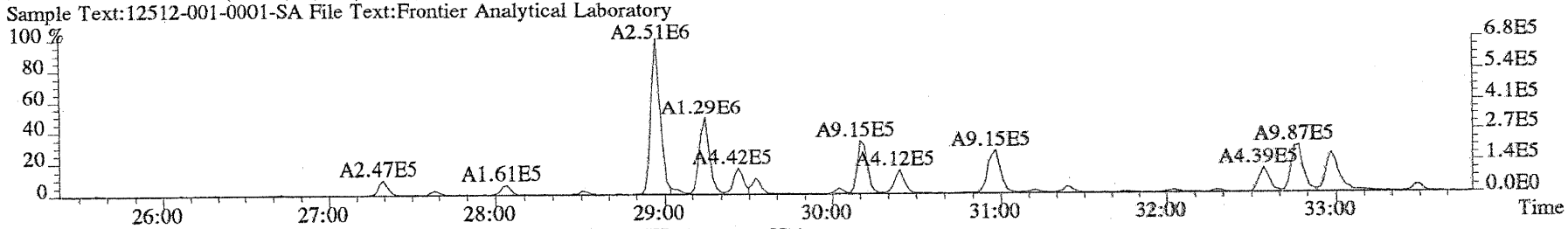
File:06AUG19Z #1-401 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



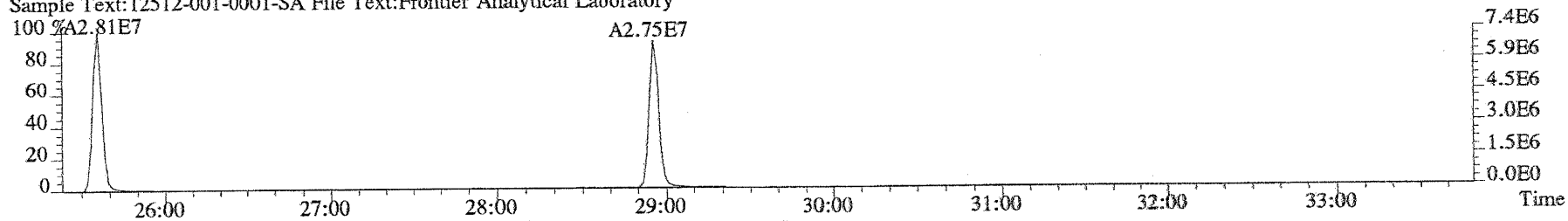
File:06AUG19Z #1-401 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



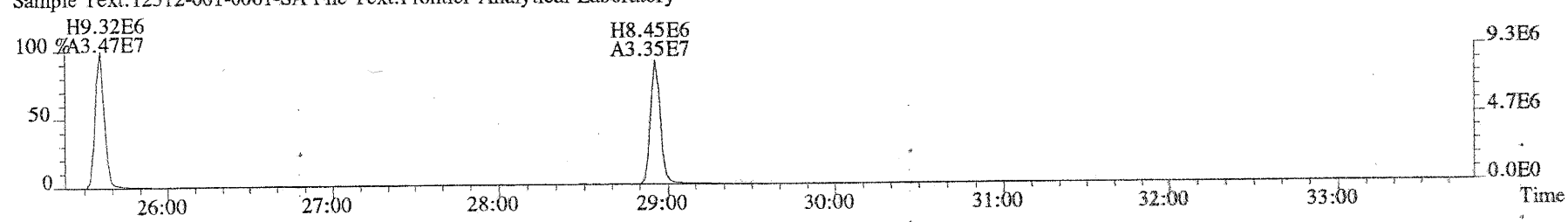
File:06AUG19Z #1-401 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



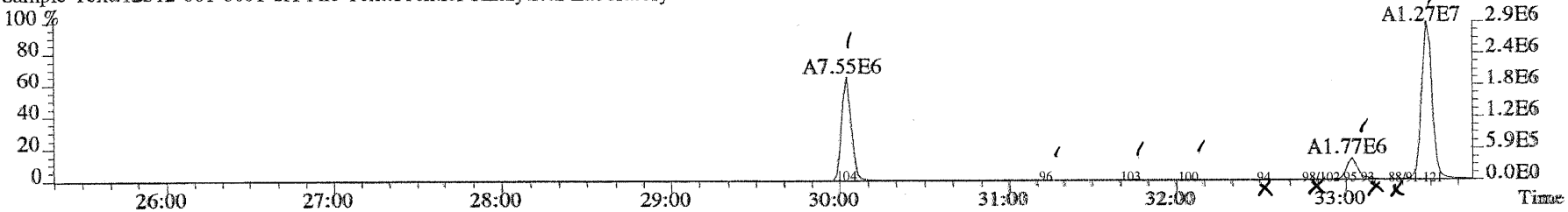
File:06AUG19Z #1-401 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



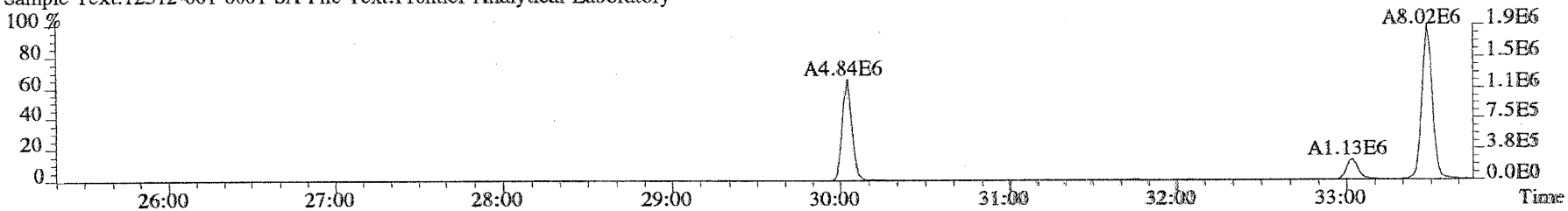
File:06AUG19Z #1-401 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



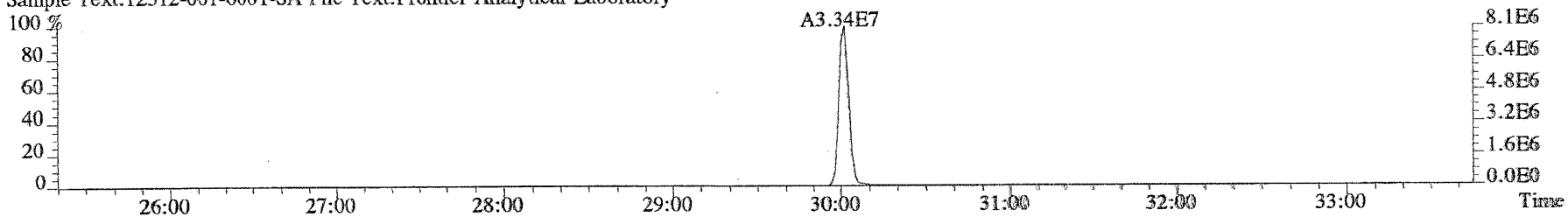
File:06AUG19Z #1-401 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



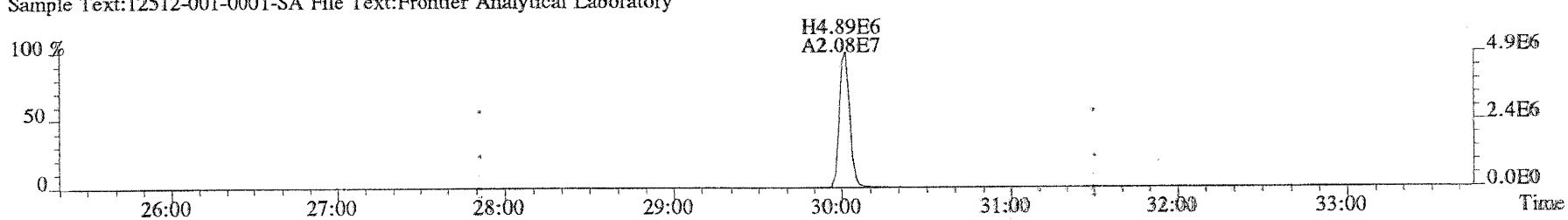
File:06AUG19Z #1-401 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



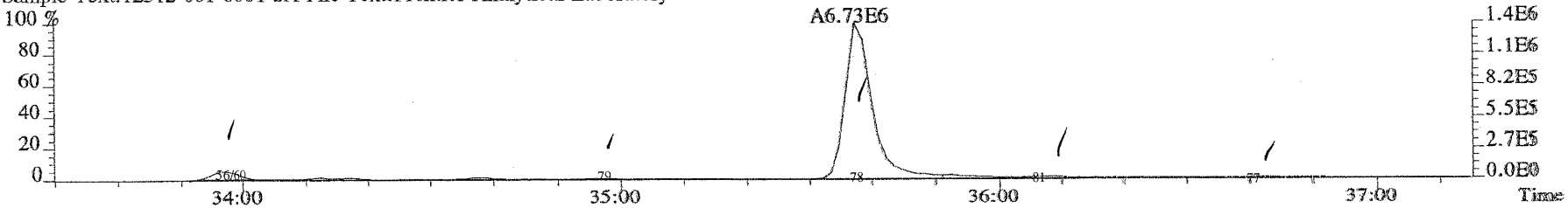
File:06AUG19Z #1-401 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



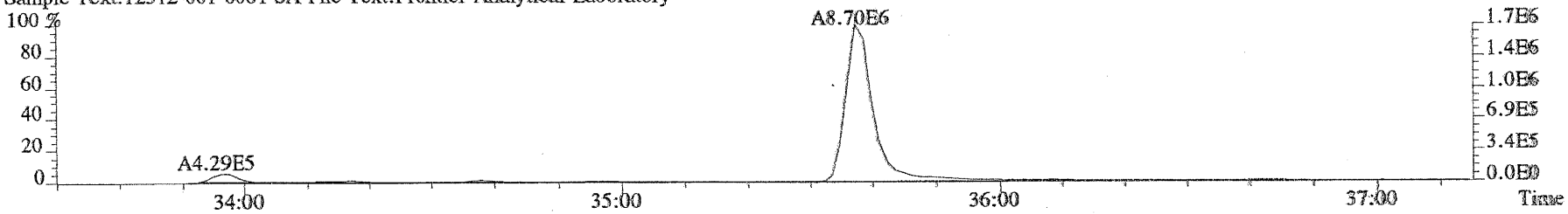
File:06AUG19Z #1-401 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



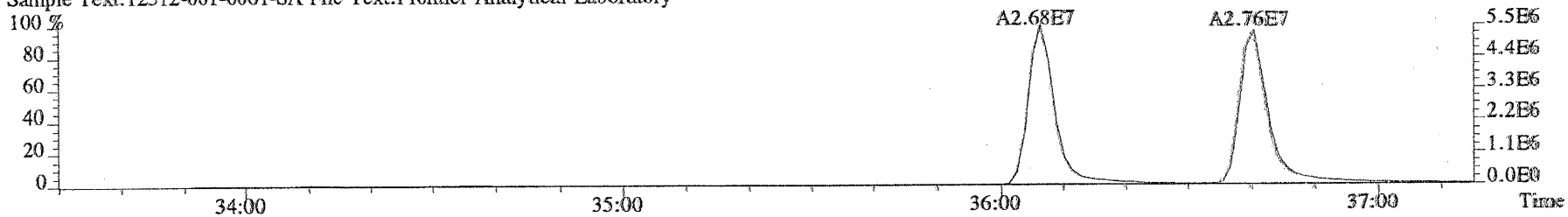
File:06AUG19Z #1-180 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



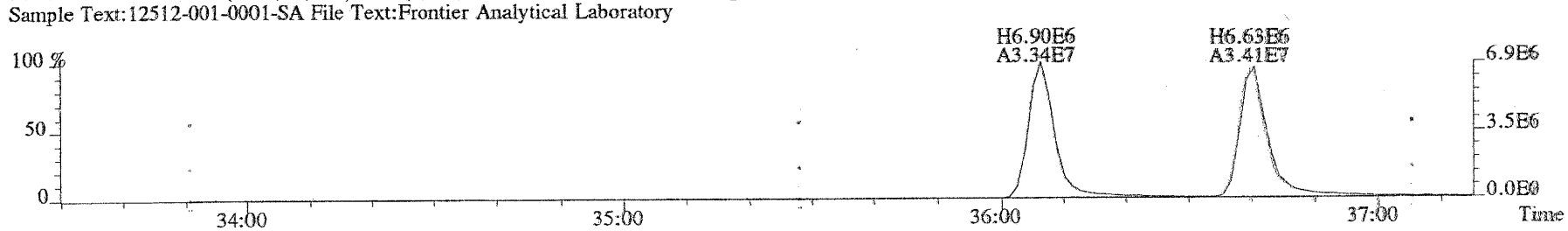
File:06AUG19Z #1-180 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



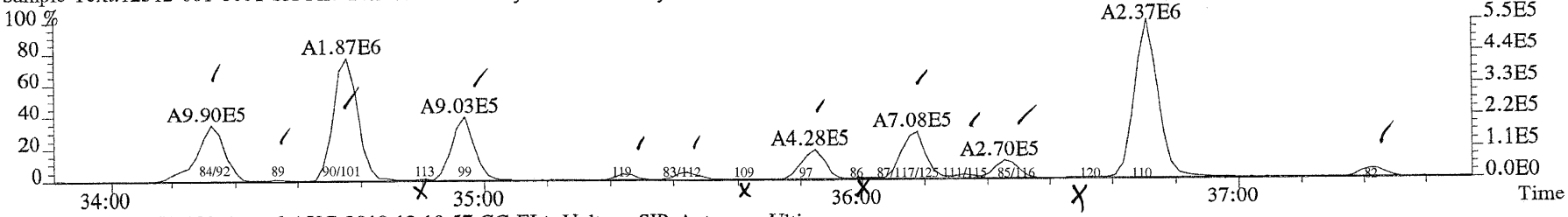
File:06AUG19Z #1-180 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



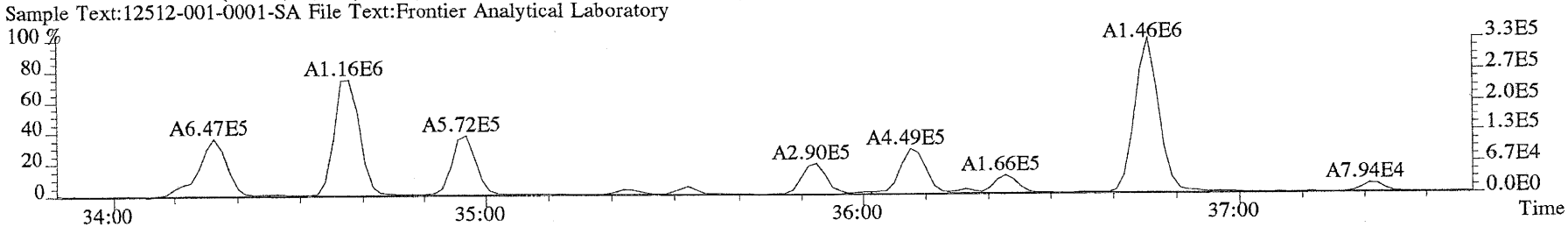
File:06AUG19Z #1-180 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



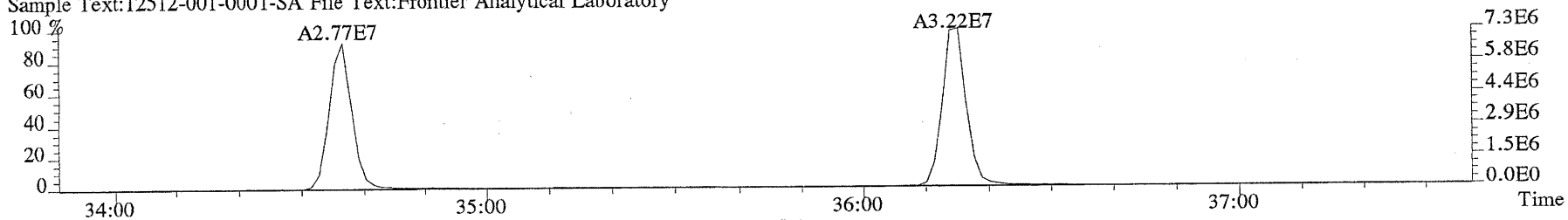
File:06AUG19Z #1-180 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



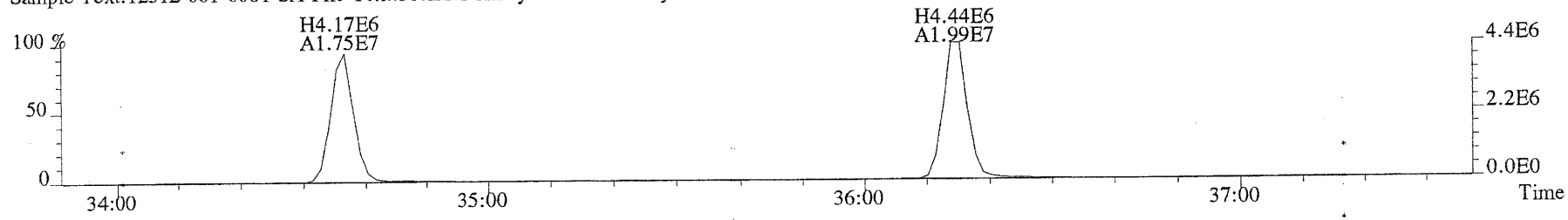
File:06AUG19Z #1-180 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



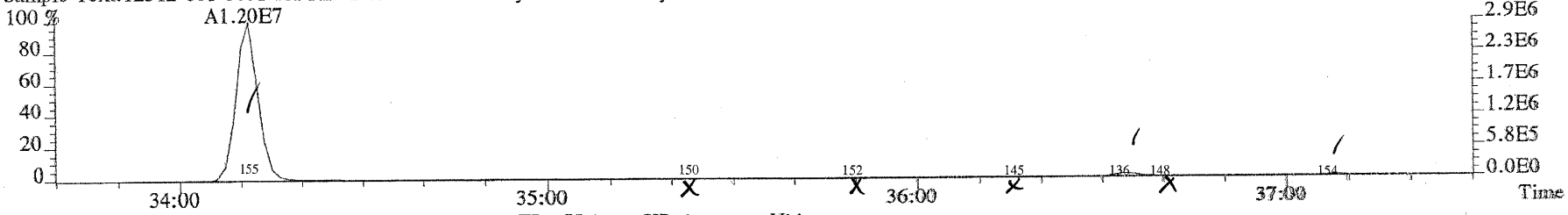
File:06AUG19Z #1-180 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



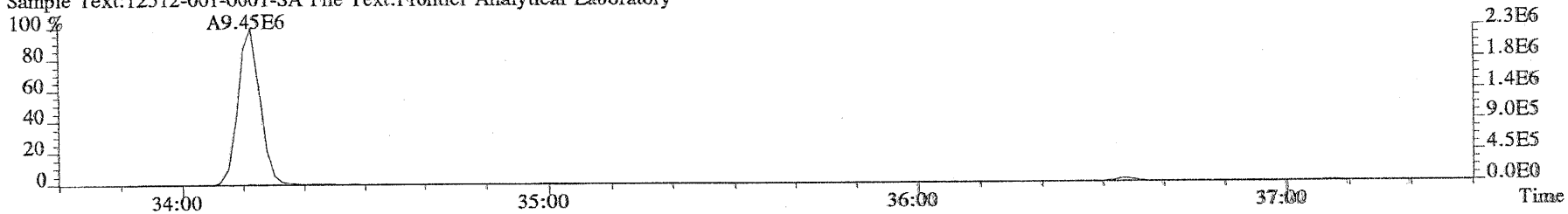
File:06AUG19Z #1-180 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



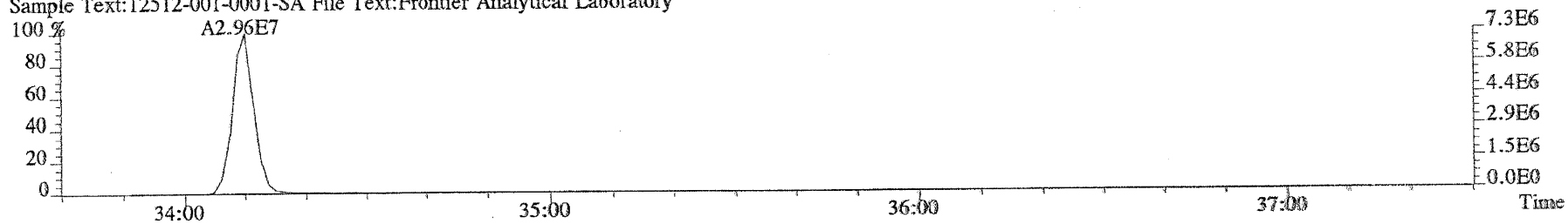
File:06AUG19Z #1-180 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



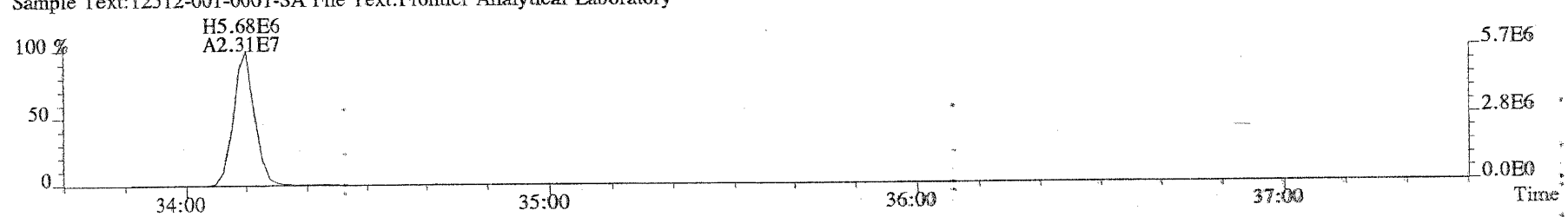
File:06AUG19Z #1-180 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



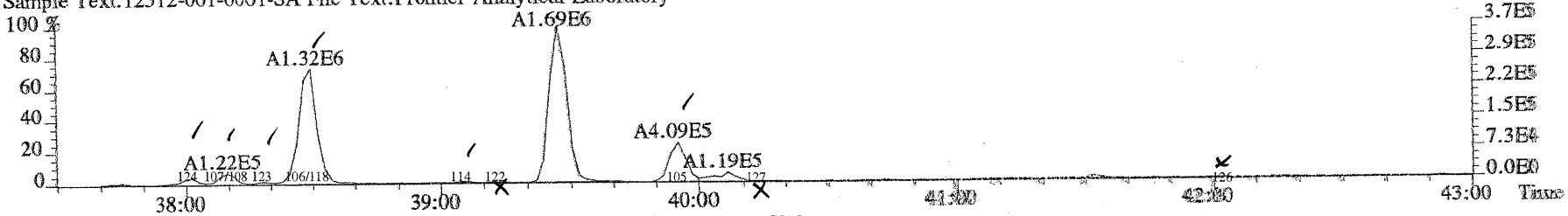
File:06AUG19Z #1-180 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



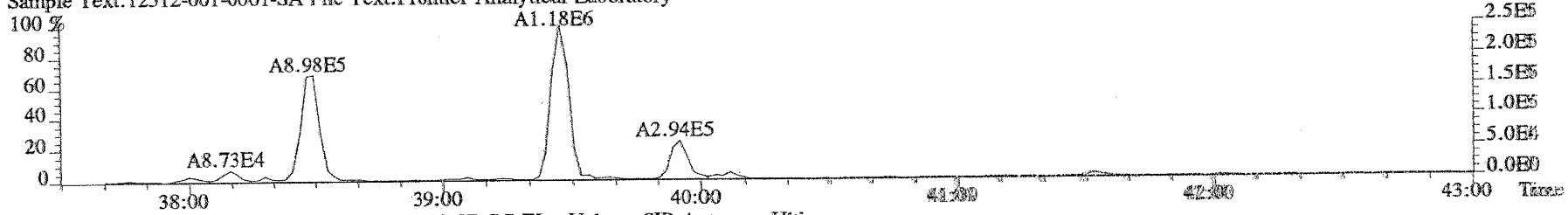
File:06AUG19Z #1-180 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



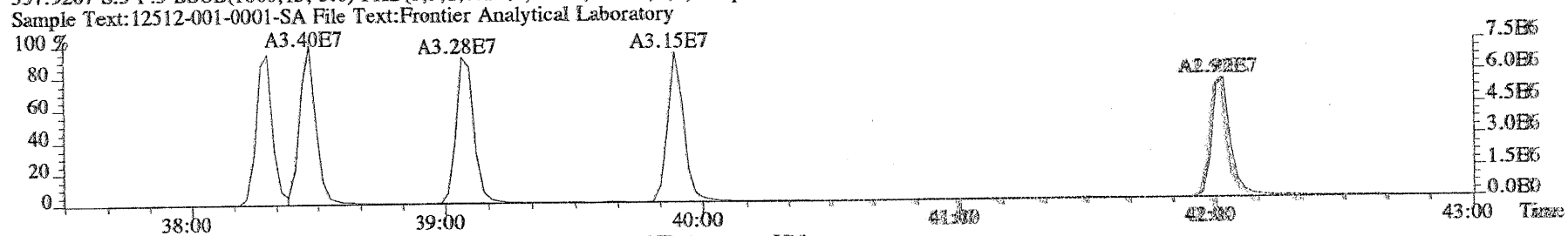
File:06AUG19Z #1-406 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



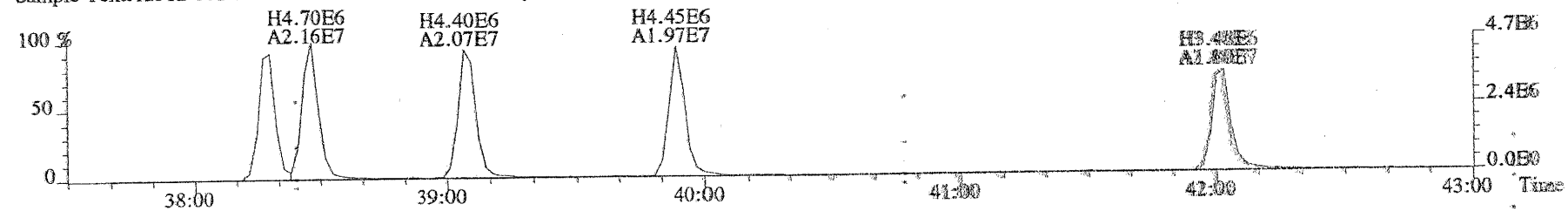
File:06AUG19Z #1-406 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



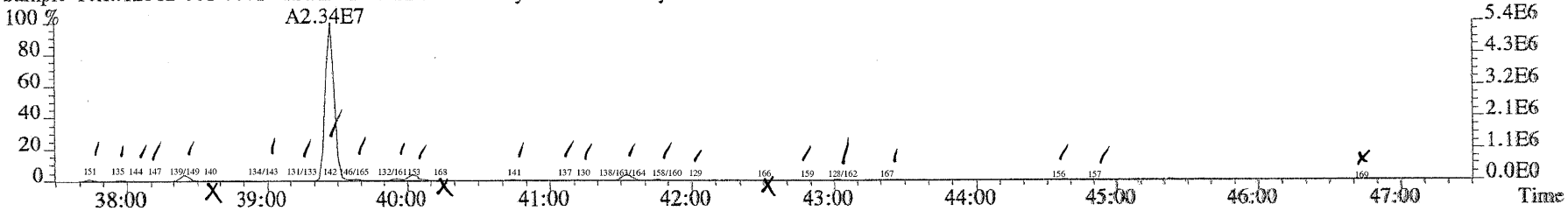
File:06AUG19Z #1-406 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



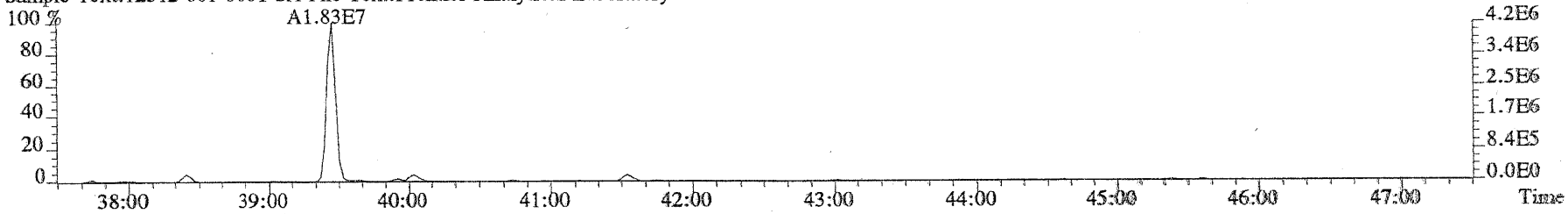
File:06AUG19Z #1-406 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



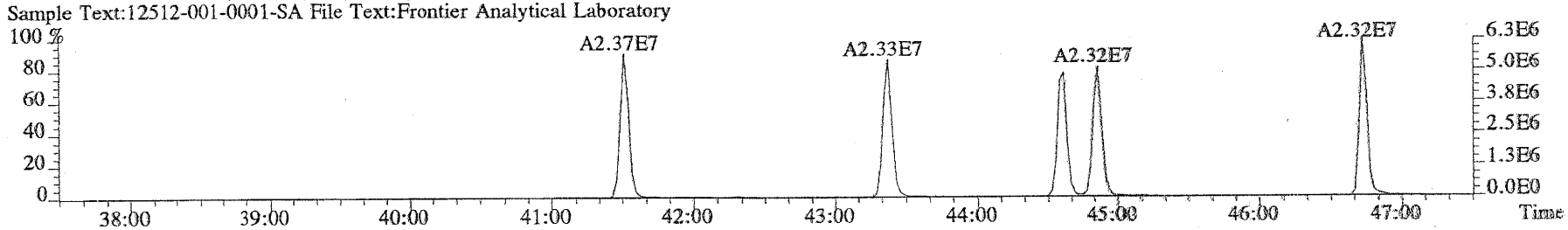
File:06AUG19Z #1-406 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



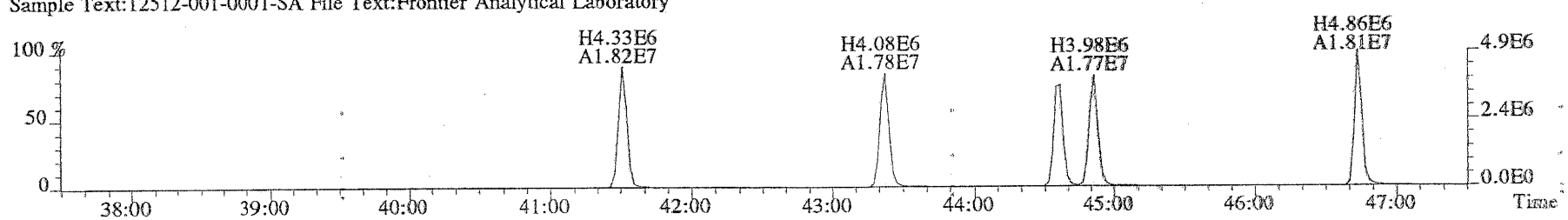
File:06AUG19Z #1-406 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



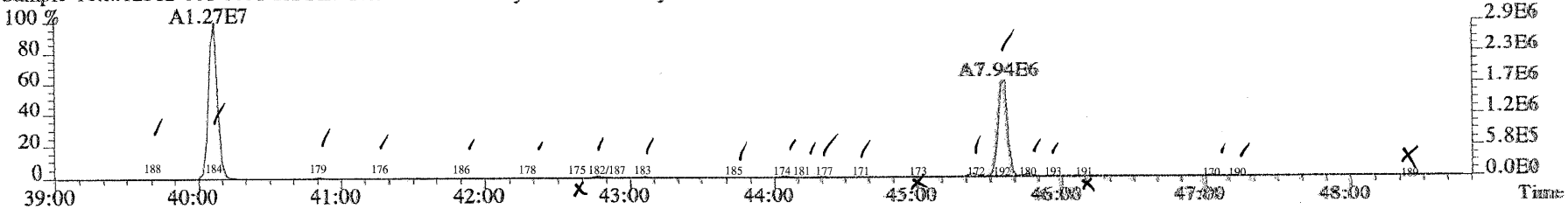
File:06AUG19Z #1-406 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



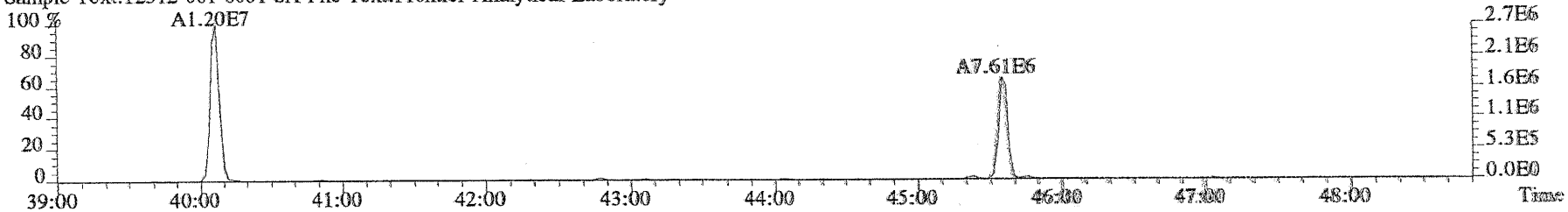
File:06AUG19Z #1-406 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



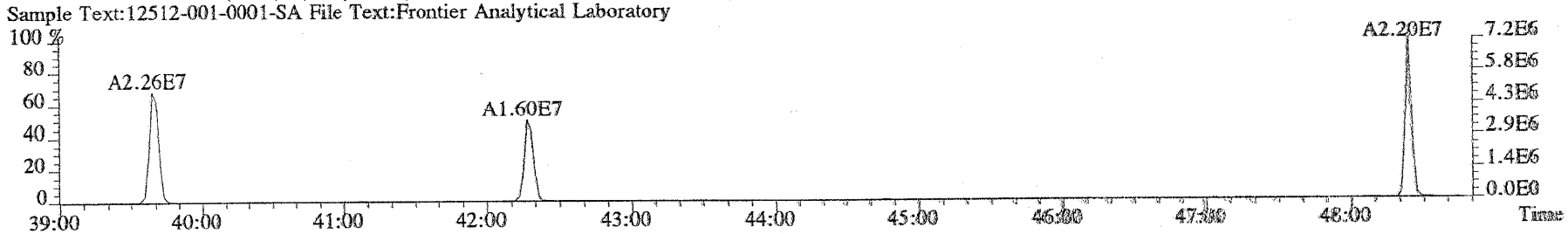
File:06AUG19Z #1-406 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



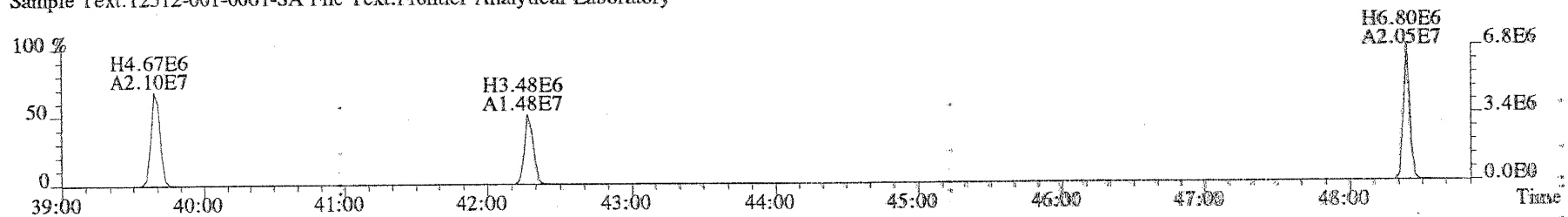
File:06AUG19Z #1-406 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



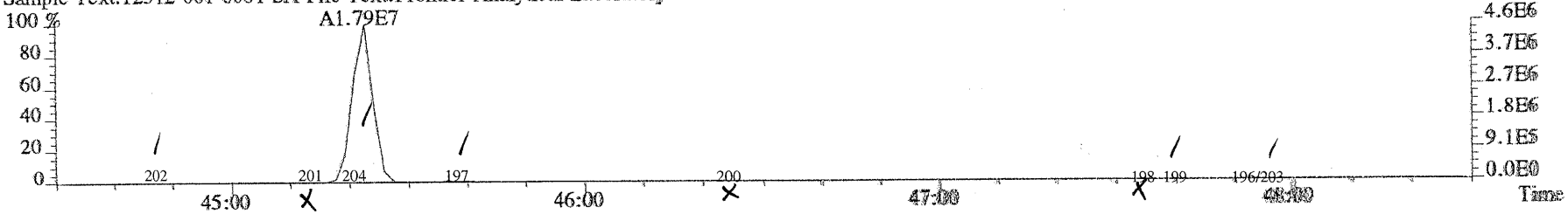
File:06AUG19Z #1-406 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



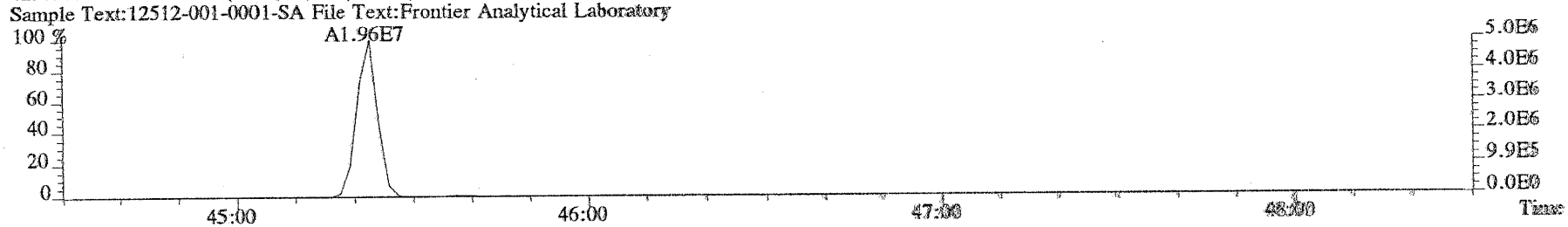
File:06AUG19Z #1-406 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



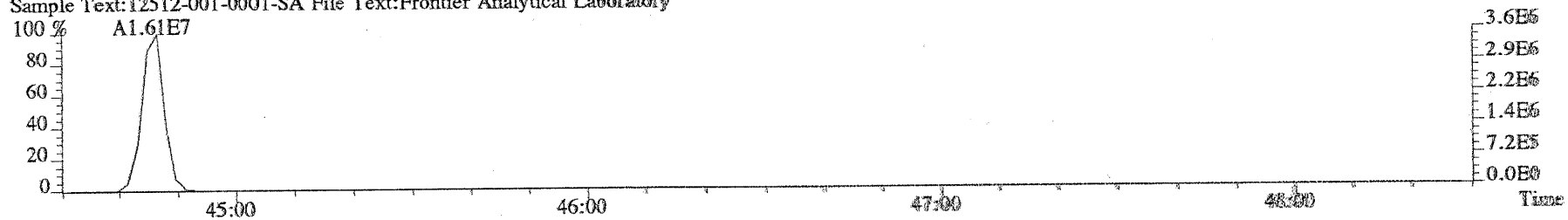
File:06AUG19Z #1-406 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



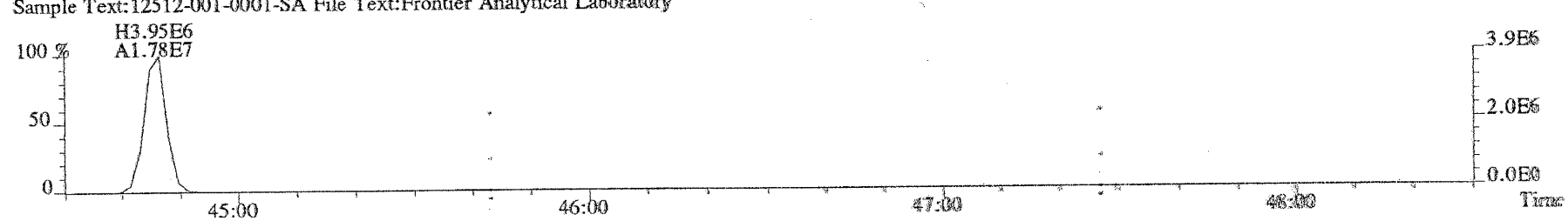
File:06AUG19Z #1-406 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



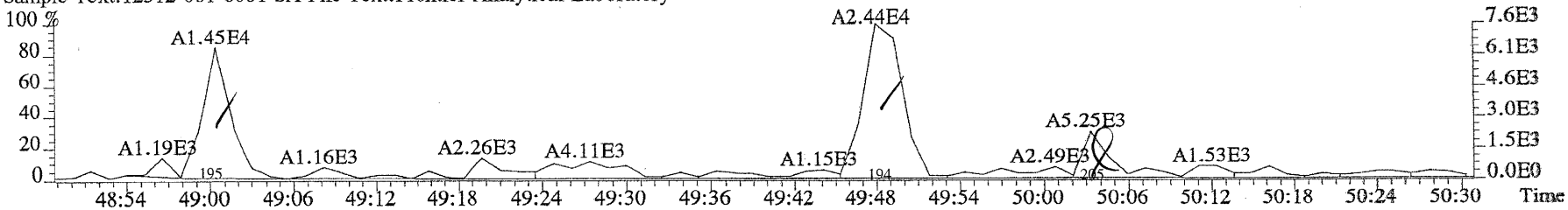
File:06AUG19Z #1-406 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



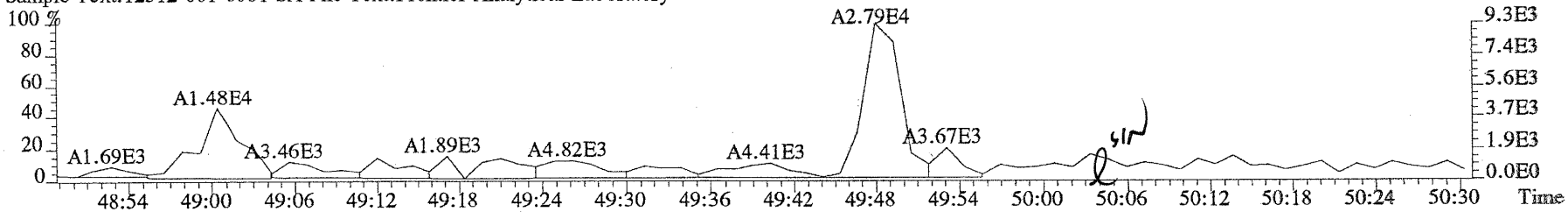
File:06AUG19Z #1-406 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



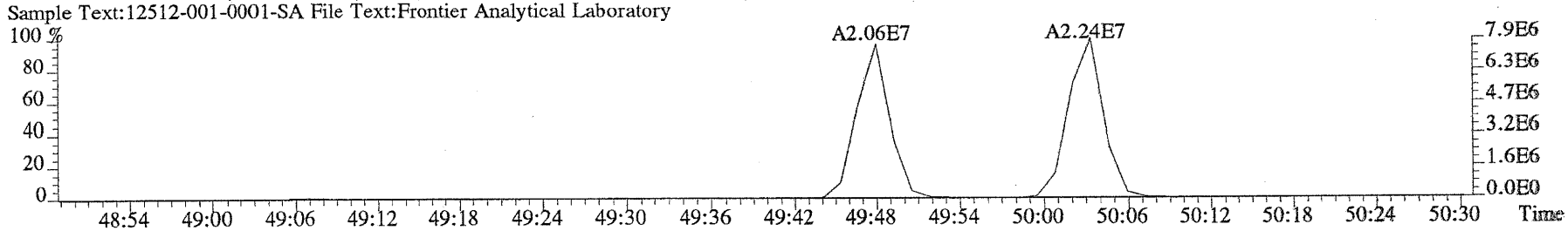
File:06AUG19Z #1-314 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



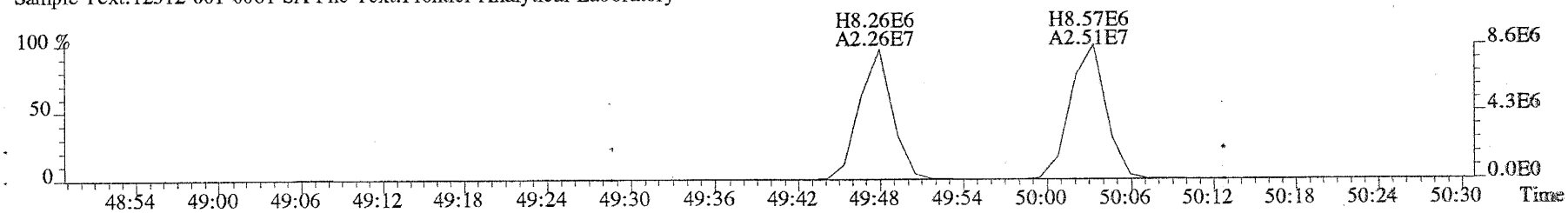
File:06AUG19Z #1-314 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



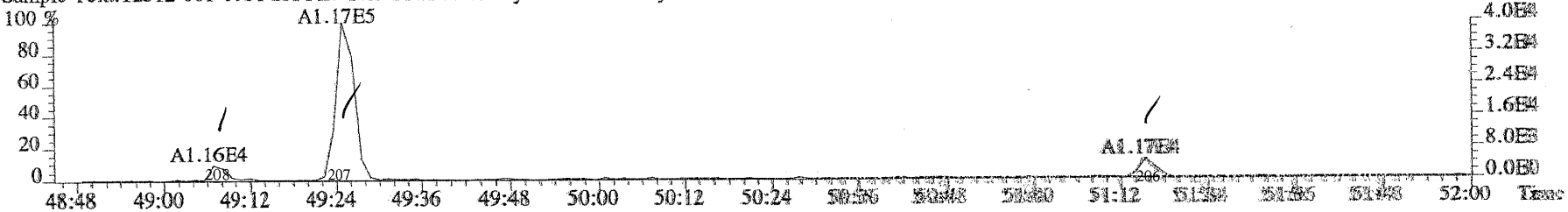
File:06AUG19Z #1-314 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-314 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-314 Acq: 6-AUG-2019 12:10:57 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:12512-001-0001-SA File Text:Frontier Analytical Laboratory



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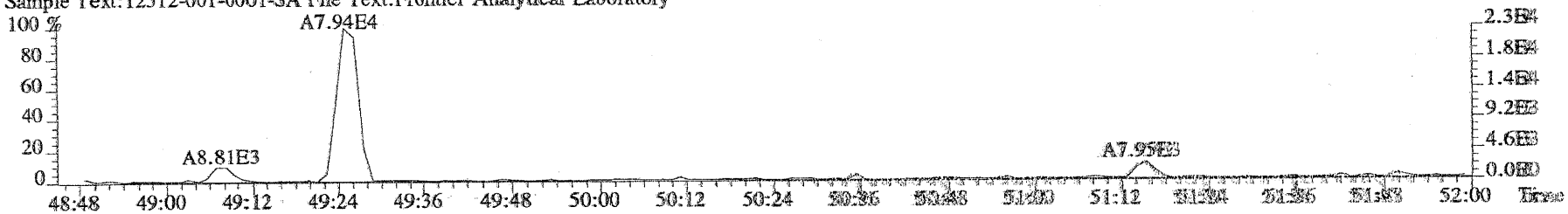
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



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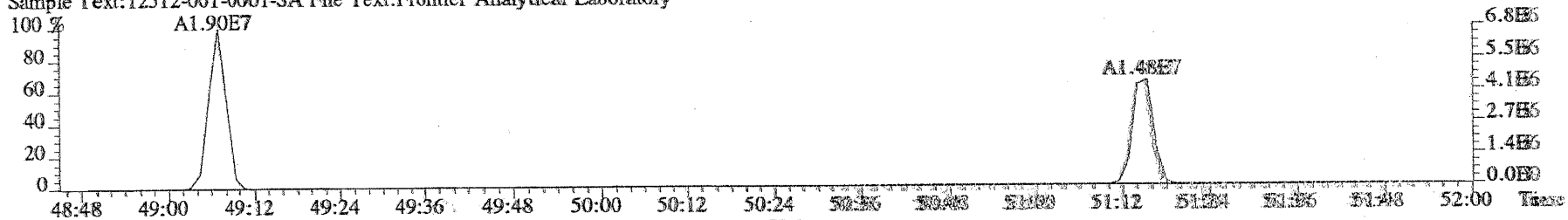
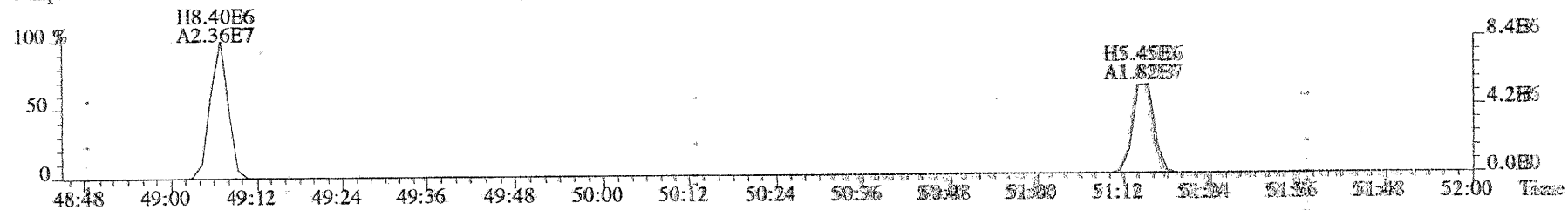
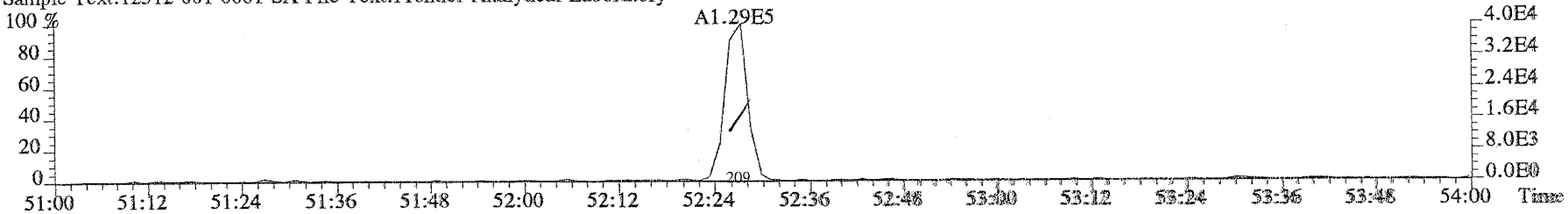
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



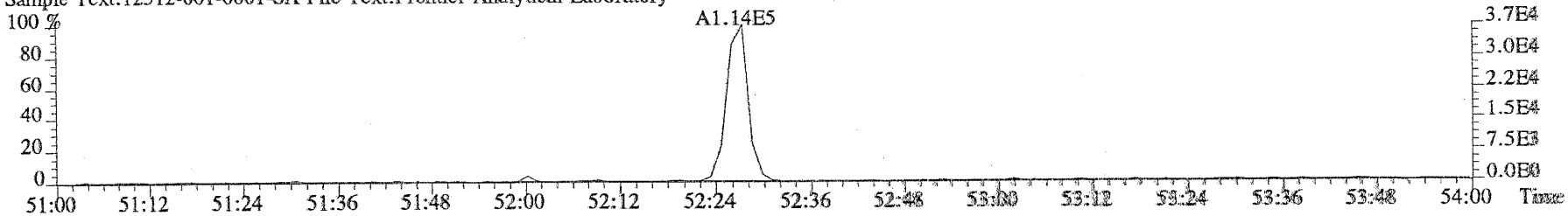
File:06AUG19Z #1-314 Acq: 6-AUG-2019 12:10:57 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-314 Acq: 6-AUG-2019 12:10:57 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:12512-001-0001-SA File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-314 Acq: 6-AUG-2019 12:10:57 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:12512-001-0001-SA File Text:Frontier Analytical Laboratory



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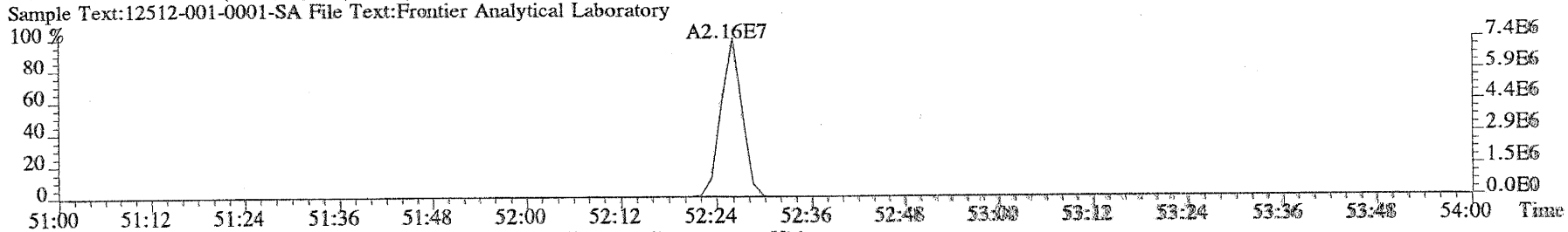
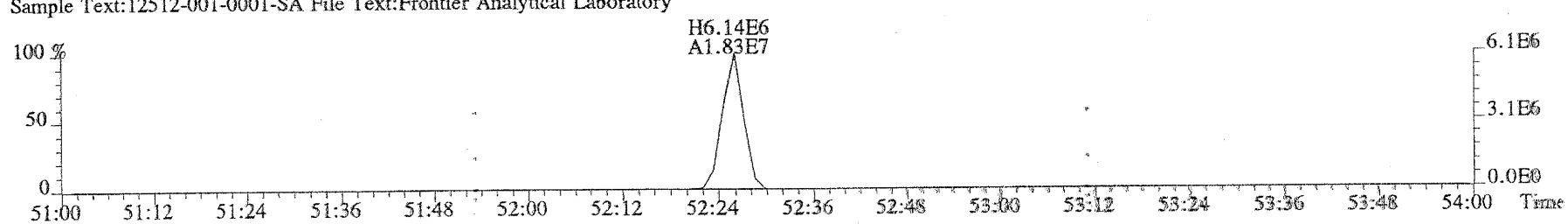
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-001-0001-SA File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-314 Acq: 6-AUG-2019 12:10:57 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:12512-001-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12512-004-0001-SA Filename: 06AUG19Z Sam:8 Acquired: 6-AUG-19 15:06:50 ICal: DAILY209FAL4-8-6-19
Client ID: LDW-Y2-IN-ENR-CE-SSWI ConCal: ST080619Z1 EndCal: ST080619Z2
Results: Y GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	6.74e+04	2.99 y	14:32	1.16	5.31	J	-	-	*	
13C-PCB-1	1.10e+08	3.24 y	14:31	0.90	8010					80.1
PCB-2	*	* n	NotFnd	1.18	*		1790	1360	1.98	
PCB-3	*	* n	NotFnd	1.17	*		1790	1360	2.11	
13C-PCB-3	1.14e+08	3.26 y	16:57	0.89	8390					83.9
PCB-4	4.87e+05	1.46 y	18:11	1.21	45.3		-	-	*	
PCB-10	*	* n	NotFnd	1.31	*		860	9840	7.20	
13C-PCB-4	8.85e+07	1.54 y	18:10	0.67	8730					87.3
PCB-9	*	* n	NotFnd	1.45	*		860	9840	6.53	
PCB-7	*	* n	NotFnd	1.45	*		860	9840	6.51	
PCB-6	4.44e+05	1.65 y	20:30	1.48	27.0		-	-	*	
PCB-8	9.96e+05	1.40 y	20:52	1.40	64.0		-	-	*	
PCB-5	*	* n	NotFnd	1.40	*		860	9840	6.77	
PCB-14	2.37e+06	1.40 y	21:56	1.29	165		-	-	*	
PCB-11	3.30e+05	1.44 y	23:04	1.18	25.1		-	-	*	
PCB-13	*	* n	NotFnd	1.17	*		860	9840	8.06	
PCB-12	*	* n	NotFnd	1.24	*		860	9840	7.65	
PCB-15	4.67e+05	1.56 y	23:44	1.10	31.6		-	-	*	
13C-PCB-15	1.34e+08	1.55 y	23:42	0.89	9980					99.8
PCB-19	1.98e+05	1.16 y	22:04	1.18	24.0		-	-	*	
PCB-30	*	* n	NotFnd	1.71	*		1950	536	1.88	
PCB-18	1.57e+06	1.03 y	23:37	1.12	202		-	-	*	
PCB-17	7.42e+05	1.11 y	23:47	1.24	86.1		-	-	*	
PCB-27	1.36e+05	0.97 y	24:18	1.63	12.0	J	-	-	*	
PCB-24	1.53e+05	1.14 y	24:19	1.56	14.1	J	-	-	*	
PCB-16	5.06e+05	1.12 y	24:49	1.31	55.3		-	-	*	
PCB-32	4.54e+05	1.09 y	24:48	1.43	45.8		-	-	*	
13C-PCB-19	6.95e+07	1.10 y	22:03	0.50	9140					91.4
13C-PCB-9	1.52e+08	1.58 y	19:51	-	69.1					
PCB-34	*	* n	NotFnd	1.29	*		4560	3150	7.77	
PCB-23	*	* n	NotFnd	1.31	*		4560	3150	7.70	
PCB-29	*	* n	NotFnd	1.26	*		4560	3150	7.99	
PCB-26	1.18e+06	1.10 y	26:06	1.29	85.7		-	-	*	
PCB-25	5.84e+05	0.99 y	26:16	1.28	42.9		-	-	*	
PCB-31	2.32e+06	1.03 y	26:35	1.28	170		-	-	*	
PCB-28	3.12e+06	1.02 y	26:41	1.52	193		-	-	*	
PCB-20	1.16e+06	1.10 y	27:16	1.26	86.3		-	-	*	Co-elute PCB 21/33
PCB-21	1.16e+06	1.10 y	27:16	1.26	86.3		-	-	*	Co-elute PCB 20/33
PCB-33	1.16e+06	1.10 y	27:16	1.26	86.3		-	-	*	Co-elute PCB 20/21
PCB-22	7.83e+05	1.04 y	27:40	1.33	55.2		-	-	*	
PCB-36	4.99e+06	1.04 y	28:17	1.21	386		-	-	*	
PCB-39	*	* n	NotFnd	1.20	*		4560	3150	8.38	
PCB-38	*	* n	NotFnd	1.20	*		4560	3150	8.38	
PCB-35	*	* n	NotFnd	1.10	*		4560	3150	9.16	
PCB-37	3.92e+05	0.94 y	30:22	1.15	32.0		-	-	*	
13C-PCB-37	1.06e+08	1.09 y	30:21	1.41	9620					96.2

PCB-54	*	*	n	NotFnd	1.15	*		888	1860	2.74	
PCB-50	4.95e+04	0.72	y	26:42	0.93	6.19	J	-	-	*	
PCB-53	5.00e+05	0.85	y	27:19	0.91	63.8		-	-	*	
PCB-51	1.29e+05	0.77	y	27:38	0.91	16.3	J	-	-	*	
PCB-45	2.96e+05	0.86	y	28:03	0.77	44.5		-	-	*	
PCB-46	1.13e+05	0.74	y	28:31	0.73	18.0	J	-	-	*	
PCB-52	6.30e+06	0.82	y	28:56	0.87	837		-	-	*	Co-elute PCB 69
PCB-69	6.30e+06	0.82	y	28:56	0.87	837		-	-	*	Co-elute PCB 52
PCB-73	2.16e+05	0.83	y	29:01	1.14	21.8		-	-	*	
PCB-43	2.78e+06	0.82	y	29:14	0.78	411		-	-	*	Co-elute PCB 49
PCB-49	2.78e+06	0.82	y	29:14	0.78	411		-	-	*	Co-elute PCB 43
PCB-47	8.67e+05	0.83	y	29:25	0.81	123		-	-	*	
PCB-48	5.47e+05	0.71	y	29:32	0.99	64.0		-	-	*	Co-elute PCB 75
PCB-75	5.47e+05	0.71	y	29:32	0.99	64.0		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*		888	1860	3.21	
PCB-62	*	*	n	NotFnd	1.08	*		888	1860	2.93	
PCB-44	2.32e+06	0.79	y	30:10	0.68	395		-	-	*	
PCB-42	8.33e+05	0.76	y	30:23	0.87	111		-	-	*	Co-elute PCB 59
PCB-59	8.33e+05	0.76	y	30:23	0.87	111		-	-	*	Co-elute PCB 42
PCB-72	2.15e+06	0.82	y	30:56	0.96	260		-	-	*	Co-elute PCB 41/71/64
PCB-41	2.15e+06	0.82	y	30:56	0.96	260		-	-	*	Co-elute PCB 72/71/64
PCB-71	2.15e+06	0.82	y	30:56	0.96	260		-	-	*	Co-elute PCB 72/41/64
PCB-64	2.15e+06	0.82	y	30:56	0.96	260		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.07e+05	0.81	y	31:11	1.09	11.3	J	-	-	*	
PCB-40	2.18e+05	0.74	y	31:23	0.61	41.6		-	-	*	
PCB-57	4.69e+04	0.75	y	31:44	0.96	5.68	J	-	-	*	
PCB-67	1.11e+05	0.68	y	32:01	0.98	13.0	J	-	-	*	
PCB-58	*	*	n	NotFnd	0.98	*		888	1860	3.22	
PCB-63	1.03e+05	0.81	y	32:17	0.96	12.3	J	-	-	*	
PCB-74	1.07e+06	0.80	y	32:34	0.96	128		-	-	*	
PCB-61	2.49e+06	0.85	y	32:46	0.92	312		-	-	*	Co-elute PCB 70
PCB-70	2.49e+06	0.85	y	32:46	0.92	312		-	-	*	Co-elute PCB 61
PCB-76	2.29e+06	0.83	y	32:58	1.00	265		-	-	*	Co-elute PCB 66
PCB-66	2.29e+06	0.83	y	32:58	1.00	265		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.16	*		888	1860	2.73	
PCB-55	3.47e+05	0.82	y	33:28	1.01	39.9		-	-	*	
13C-PCB-54	8.64e+07	0.82	y	25:35	1.31	8440					84.4
PCB-104	1.15e+07	1.57	y	30:02	1.09	1380		-	-	*	
PCB-96	5.47e+04	1.45	y	31:13	1.01	7.07	J	-	-	*	
PCB-103	7.22e+04	1.51	y	31:43	0.80	11.8	J	-	-	*	
PCB-100	6.35e+04	1.59	y	32:03	0.79	10.4	J	-	-	*	
PCB-94	*	*	n	NotFnd	0.65	*		368	420	1.57	
PCB-98	*	*	n	NotFnd	0.70	*		368	420	1.45	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.70	*		368	420	1.45	Co-elute PCB 98
PCB-95	4.81e+06	1.54	y	33:01	0.68	921		-	-	*	
PCB-93	*	*	n	NotFnd	0.65	*		368	420	1.56	
PCB-88	*	*	n	NotFnd	0.73	*		368	420	1.39	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.73	*		368	420	1.39	Co-elute PCB 88
PCB-121	2.02e+07	1.58	y	33:28	0.89	2950		-	-	*	
13C-PCB-104	7.66e+07	1.58	y	29:59	1.05	9330					93.3
13C-PCB-28	1.36e+08	1.04	y	26:40	1.82	9580					95.8
13C-PCB-52	7.83e+07	0.81	y	28:55	-	82.8					

PCB-56	1.06e+06	0.80	y	33:57	1.12	118		-	-	*	Co-elute PCB 60
PCB-60	1.06e+06	0.80	y	33:57	1.12	118		-	-	*	Co-elute PCB 56
PCB-79	1.16e+05	0.78	y	34:55	1.14	12.6	J	-	-	*	
PCB-78	1.37e+07	0.81	y	35:37	1.11	1540		-	-	*	
PCB-81	2.57e+05	0.88	y	36:07	1.21	26.6		-	-	*	
13C-PCB-81	7.97e+07	0.80	y	36:06	1.53	8890					88.9
PCB-77	2.11e+05	0.74	y	36:42	1.04	25.1		-	-	*	
13C-PCB-77	8.07e+07	0.79	y	36:40	1.58	8690					86.9
PCB-155	1.98e+07	1.28	y	34:11	1.03	2560		-	-	*	
PCB-150	*	*	n	NotFnd	0.99	*		728	452	1.69	
PCB-152	*	*	n	NotFnd	0.97	*		728	452	1.72	
PCB-145	*	*	n	NotFnd	1.01	*		728	452	1.66	
PCB-136	6.25e+05	1.21	y	36:34	0.96	87.3		-	-	*	
PCB-148	*	*	n	NotFnd	0.72	*		728	452	2.33	
PCB-154	1.13e+05	1.20	y	37:05	0.79	19.1	J	-	-	*	
13C-PCB-155	7.49e+07	1.29	y	34:08	1.32	9680					96.8
13C-PCB-111	6.34e+07	1.59	y	36:13	1.22	8880					88.8
13C-PCB-101	5.86e+07	1.60	y	34:36	-	81.3					
PCB-84	2.32e+06	1.56	y	34:16	0.75	441		-	-	*	Co-elute PCB 92
PCB-92	2.32e+06	1.56	y	34:16	0.75	441		-	-	*	Co-elute PCB 84
PCB-89	7.22e+04	1.51	y	34:27	0.78	13.3	J	-	-	*	
PCB-90	4.97e+06	1.57	y	34:37	0.88	812		-	-	*	Co-elute PCB 101
PCB-101	4.97e+06	1.57	y	34:37	0.88	812		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.94	*		1440	1240	4.71	
PCB-99	2.23e+06	1.59	y	34:56	1.00	320		-	-	*	
PCB-119	1.76e+05	1.52	y	35:22	1.10	22.9		-	-	*	
PCB-83	2.42e+05	1.76	y	35:32	0.87	40.0		-	-	*	Co-elute PCB 112
PCB-112	2.42e+05	1.76	y	35:32	0.87	40.0		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.06	*		1440	1240	4.20	
PCB-97	1.12e+06	1.57	y	35:51	0.73	218		-	-	*	
PCB-86	*	*	n	NotFnd	0.73	*		1440	1240	6.04	
PCB-125	1.89e+06	1.65	y	36:07	0.97	278		-	-	*	Co-elute PCB 87/117
PCB-87	1.89e+06	1.65	y	36:07	0.97	278		-	-	*	Co-elute PCB 125/117
PCB-117	1.89e+06	1.65	y	36:07	0.97	278		-	-	*	Co-elute PCB 125/87
PCB-111	1.28e+05	1.47	y	36:16	1.17	15.7	J	-	-	*	Co-elute PCB 115
PCB-115	1.28e+05	1.47	y	36:16	1.17	15.7	J	-	-	*	Co-elute PCB 111
PCB-85	6.55e+05	1.50	y	36:22	0.90	104		-	-	*	Co-elute PCB 116
PCB-116	6.55e+05	1.50	y	36:22	0.90	104		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.13	*		1440	1240	3.93	
PCB-110	5.94e+06	1.60	y	36:45	1.09	779		-	-	*	
PCB-82	3.32e+05	1.48	y	37:20	0.63	75.7		-	-	*	
PCB-124	1.82e+05	1.54	y	38:00	1.06	24.6		-	-	*	
PCB-108	3.28e+05	1.60	y	38:09	1.09	43.0		-	-	*	Co-elute PCB 107
PCB-107	3.28e+05	1.60	y	38:09	1.09	43.0		-	-	*	Co-elute PCB 108
PCB-123	7.48e+04	1.39	y	38:19	1.05	10.4	J	-	-	*	
13C-PCB-123	6.81e+07	1.57	y	38:17	1.27	10500					105
PCB-118	3.66e+06	1.53	y	38:28	1.05	474		-	-	*	Co-elute PCB 106
PCB-106	3.66e+06	1.53	y	38:28	1.05	474		-	-	*	Co-elute PCB 118
13C-PCB-118	7.36e+07	1.58	y	38:27	1.44	9940					99.4
PCB-114	1.03e+05	1.40	y	39:03	1.11	13.1	J	-	-	*	
13C-PCB-114	7.09e+07	1.58	y	39:03	1.35	10200					102
PCB-122	5.60e+04	1.63	y	39:13	1.09	7.34	J	-	-	*	
PCB-105	1.20e+06	1.53	y	39:54	1.14	157		-	-	*	
13C-PCB-105	6.70e+07	1.60	y	39:52	1.37	9540					95.4

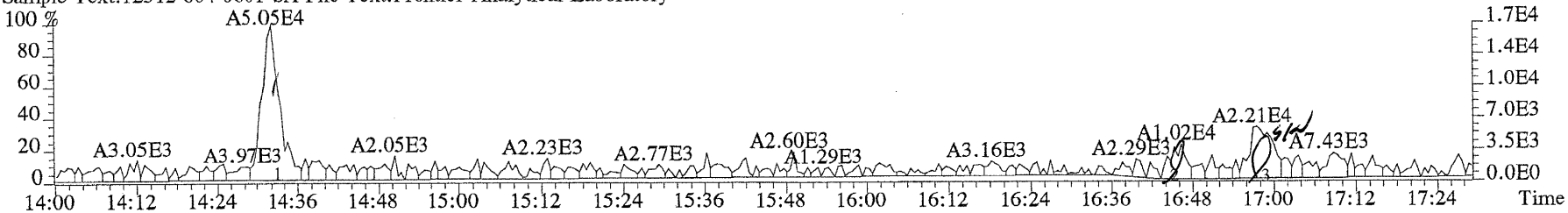
PCB-127	*	*	n	NotFnd	1.04	*		1020	1370	3.80	
PCB-126	*	*	n	NotFnd	1.09	*		1020	1370	4.52	
13C-PCB-126	6.19e+07	1.56	y	42:01	1.26	9600					96.0
PCB-151	5.88e+05	1.37	y	37:44	0.84	133		-	-	*	
PCB-135	4.39e+05	1.34	y	37:56	0.88	94.3		-	-	*	
PCB-144	1.29e+05	1.30	y	38:02	0.89	27.6		-	-	*	
PCB-147	9.82e+04	1.37	y	38:09	0.97	19.1	J	-	-	*	
PCB-139	2.28e+06	1.31	y	38:24	0.98	440		-	-	*	Co-elute PCB 149
PCB-149	2.28e+06	1.31	y	38:24	0.98	440		-	-	*	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.96	*		996	812	3.87	
PCB-143	1.83e+05	1.23	y	39:01	0.79	44.0		-	-	*	Co-elute PCB 134
PCB-134	1.83e+05	1.23	y	39:01	0.79	44.0		-	-	*	Co-elute PCB 143
PCB-131	7.48e+04	1.38	y	39:16	0.79	18.0	J	-	-	*	Co-elute PCB 133
PCB-133	7.48e+04	1.38	y	39:16	0.79	18.0	J	-	-	*	Co-elute PCB 131
PCB-142	3.87e+07	1.28	y	39:26	0.82	8930		-	-	*	
PCB-165	6.15e+05	1.32	y	39:38	1.09	107		-	-	*	Co-elute PCB 146
PCB-146	6.15e+05	1.32	y	39:38	1.09	107		-	-	*	Co-elute PCB 165
PCB-161	8.91e+05	1.22	y	39:54	1.04	162		-	-	*	Co-elute PCB 132
PCB-132	8.91e+05	1.22	y	39:54	1.04	162		-	-	*	Co-elute PCB 161
PCB-153	2.72e+06	1.30	y	40:01	1.03	501		-	-	*	
PCB-168	*	*	n	NotFnd	1.23	*		996	812	3.04	
PCB-141	3.92e+05	1.23	y	40:43	0.89	83.8		-	-	*	
PCB-137	1.37e+05	1.37	y	41:05	0.89	29.1		-	-	*	
PCB-130	1.53e+05	1.36	y	41:11	0.73	39.4		-	-	*	
PCB-138	2.65e+06	1.28	y	41:31	1.08	464		-	-	*	Co-elute PCB 163/164
PCB-163	2.65e+06	1.28	y	41:31	1.08	464		-	-	*	Co-elute PCB 138/164
PCB-164	2.65e+06	1.28	y	41:31	1.08	464		-	-	*	Co-elute PCB 138/163
PCB-158	3.14e+05	1.16	y	41:44	1.20	49.5		-	-	*	Co-elute PCB 160
PCB-160	3.14e+05	1.16	y	41:44	1.20	49.5		-	-	*	Co-elute PCB 158
PCB-129	1.14e+05	1.29	y	41:59	0.76	28.6		-	-	*	
PCB-166	*	*	n	NotFnd	1.12	*		996	812	3.33	
PCB-159	5.70e+04	1.31	y	42:45	1.22	8.87	J	-	-	*	
PCB-128	3.84e+05	1.35	y	43:00	0.99	73.4		-	-	*	Co-elute PCB 162
PCB-162	3.84e+05	1.35	y	43:00	0.99	73.4		-	-	*	Co-elute PCB 128
PCB-167	1.10e+05	1.20	y	43:23	1.10	18.2	J	-	-	*	
13C-PCB-167	5.46e+07	1.30	y	43:21	1.18	9050					90.5
PCB-156	2.01e+05	1.31	y	44:36	1.18	32.9		-	-	*	
13C-PCB-156	5.19e+07	1.30	y	44:36	1.15	8790					87.9
PCB-157	6.56e+04	1.22	y	44:52	1.12	11.2	J	-	-	*	
13C-PCB-157	5.26e+07	1.31	y	44:50	1.18	8710					87.2
PCB-169	*	*	n	NotFnd	1.08	*		996	812	3.25	
13C-PCB-169	5.19e+07	1.30	y	46:42	1.06	9580					95.8

FAL ID: 12512-004-0001-SA Filename: 06AUG19Z Sam:8 Acquired: 6-AUG-19 15:06:50 ICal: DAILY209FAL4-8-6-19
Client ID: LDW-Y2-IN-ENR-CE-SSWI ConCal: ST080619Z1 EndCal: ST080619Z2
Results: Y GC Column: DB1MS Amount: 1.000

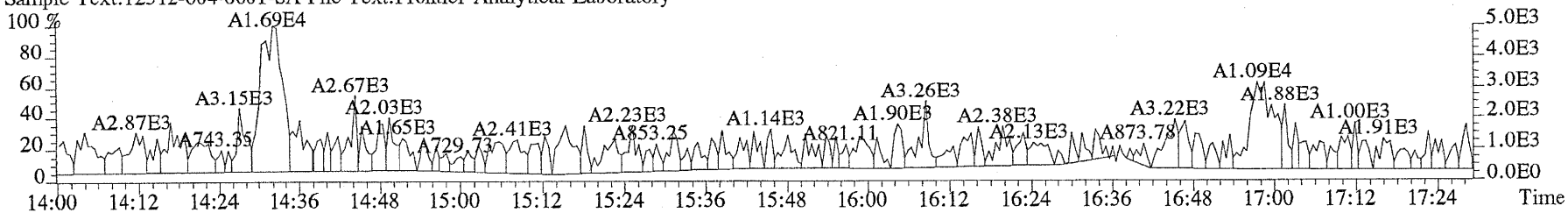
PCB-188	*	*	n	NotFnd	1.02	*		904	268	2.32	
13C-PCB-188	5.73e+07	1.06	y	39:38	1.19	9400					94.0
PCB-184	2.20e+07	1.06	y	40:06	1.15	3480		-	-	*	
PCB-179	1.80e+05	1.07	y	40:50	1.09	30.3		-	-	*	
PCB-176	5.98e+04	1.14	y	41:16	1.05	10.4	J	-	-	*	
PCB-186	*	*	n	NotFnd	1.08	*		904	268	1.89	
PCB-178	6.89e+04	1.16	y	42:17	0.70	17.9	J	-	-	*	
PCB-175	*	*	n	NotFnd	0.76	*		904	268	2.69	
PCB-187	3.38e+05	1.07	y	42:47	0.84	73.3		-	-	*	Co-elute PCB 182
PCB-182	3.38e+05	1.07	y	42:47	0.84	73.3		-	-	*	Co-elute PCB 187
PCB-183	1.63e+05	1.05	y	43:05	0.81	36.6		-	-	*	
PCB-185	*	*	n	NotFnd	0.74	*		904	268	2.76	
PCB-174	2.49e+05	1.06	y	44:03	0.74	61.9		-	-	*	
PCB-181	*	*	n	NotFnd	0.80	*		904	268	2.56	
PCB-177	1.26e+05	1.05	y	44:19	0.70	33.2		-	-	*	
PCB-171	6.49e+04	1.10	y	44:36	0.76	15.7	J	-	-	*	
PCB-173	*	*	n	NotFnd	0.66	*		904	268	3.08	
PCB-172	3.82e+05	1.06	y	45:22	0.67	104		-	-	*	
PCB-192	1.42e+07	1.06	y	45:35	0.91	2840		-	-	*	
PCB-180	4.07e+05	1.12	y	45:45	0.69	108		-	-	*	
PCB-193	6.88e+04	0.98	y	45:55	0.98	12.8	J	-	-	*	
PCB-191	*	*	n	NotFnd	0.96	*		904	268	2.12	
PCB-170	1.51e+05	1.09	y	47:02	0.69	40.3		-	-	*	
PCB-190	5.28e+04	1.09	y	47:12	0.93	10.4	J	-	-	*	
PCB-189	*	*	n	NotFnd	0.98	*		904	268	1.71	
13C-PCB-189	5.21e+07	1.08	y	48:23	1.01	10100					101
PCB-202	2.81e+04	0.83	y	44:47	1.00	6.37	J	-	-	*	
PCB-201	*	*	n	NotFnd	1.03	*		188	616	1.87	
PCB-204	3.36e+07	0.92	y	45:22	1.02	7440		-	-	*	
PCB-197	1.84e+05	0.98	y	45:36	1.09	38.4		-	-	*	
PCB-200	*	*	n	NotFnd	1.07	*		188	616	1.81	
PCB-198	*	*	n	NotFnd	0.69	*		188	616	2.79	
PCB-199	5.72e+04	0.80	y	47:38	0.77	16.9	J	-	-	*	
PCB-203	7.47e+04	0.80	y	47:53	0.83	20.4		-	-	*	Co-elute PCB 196
PCB-196	7.47e+04	0.80	y	47:53	0.83	20.4		-	-	*	Co-elute PCB 203
13C-PCB-202	4.41e+07	0.90	y	44:45	0.96	8930					89.3
13C-PCB-178	3.75e+07	1.08	y	42:17	0.77	9490					94.9
13C-PCB-138	5.13e+07	1.29	y	41:30	-	73.4					
PCB-195	2.35e+04	0.86	y	49:01	0.81	4.96	J	-	-	*	
PCB-194	6.19e+04	0.76	y	49:48	0.89	11.8	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.11	*		532	1160	1.77	
13C-PCB-205	5.88e+07	0.90	y	50:02	1.26	9480					94.8
PCB-208	*	*	n	NotFnd	1.01	*		684	696	1.83	
13C-PCB-208	5.50e+07	0.81	y	49:06	1.35	8250					82.5
PCB-207	1.59e+05	1.31	y	49:25	1.13	29.1		-	-	*	
PCB-206	1.80e+04	1.24	y	51:16	1.04	4.20	J	-	-	*	
13C-PCB-206	4.14e+07	0.81	y	51:14	0.93	9050					90.5
PCB-209	1.89e+05	1.16	y	52:26	1.10	34.6		-	-	*	
13C-PCB-209	4.98e+07	1.19	y	52:25	1.19	8500					85.0
13C-PCB-194	4.93e+07	0.91	y	49:47	-	83.1					

Analyst: _____ Date: 8/7/19

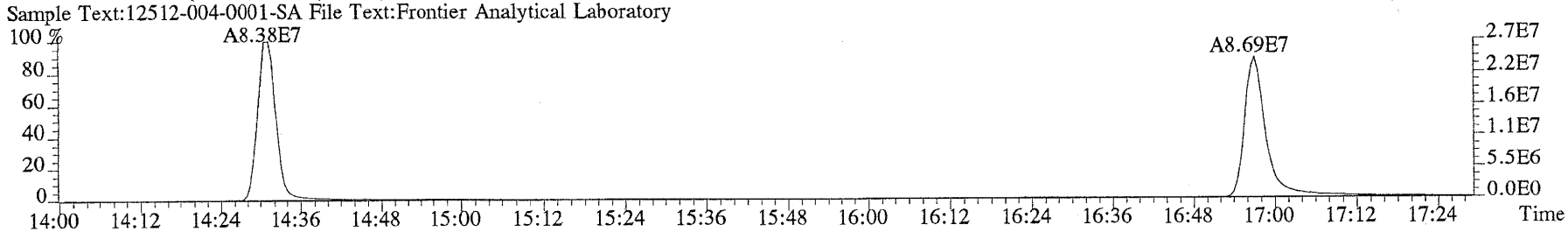
File:06AUG19Z #1-784 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:8 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



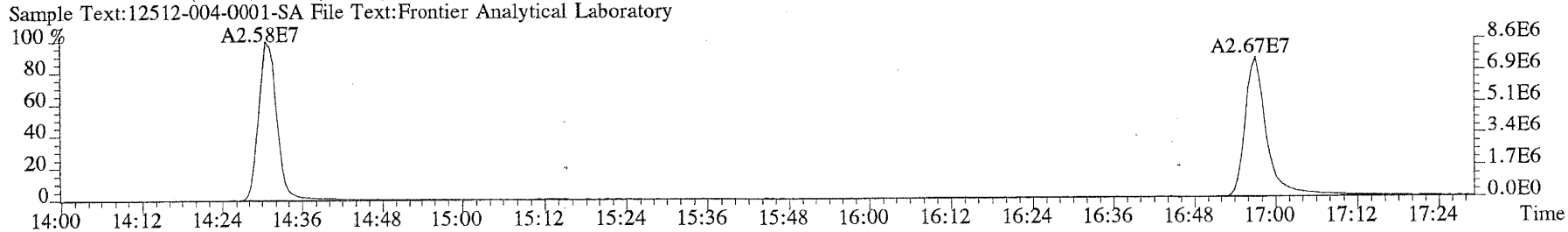
File:06AUG19Z #1-784 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:8 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



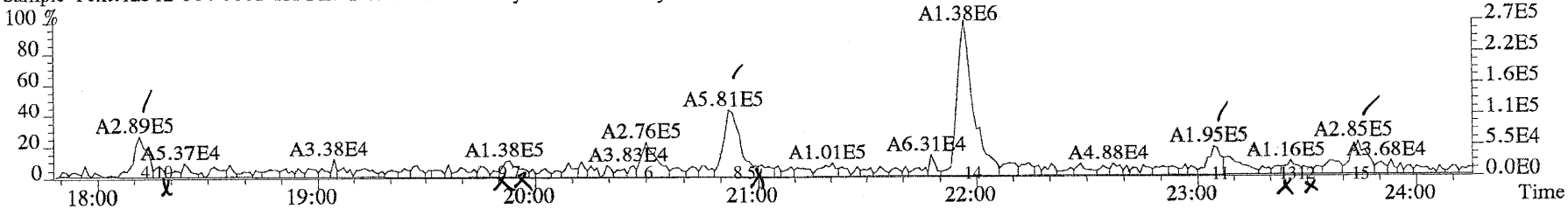
File:06AUG19Z #1-784 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:8 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



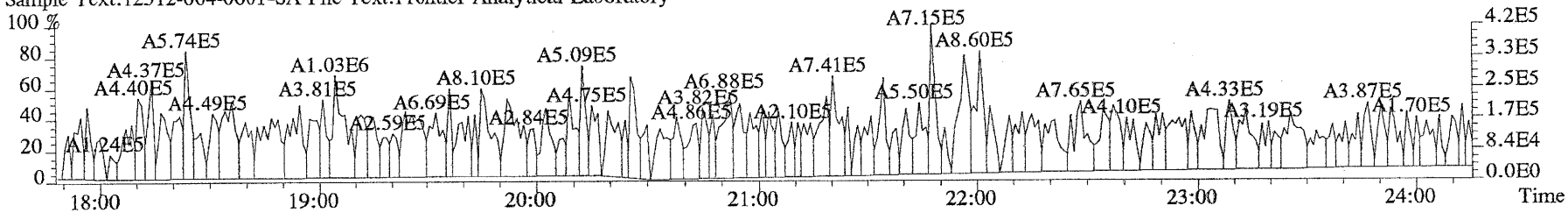
File:06AUG19Z #1-784 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:8 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



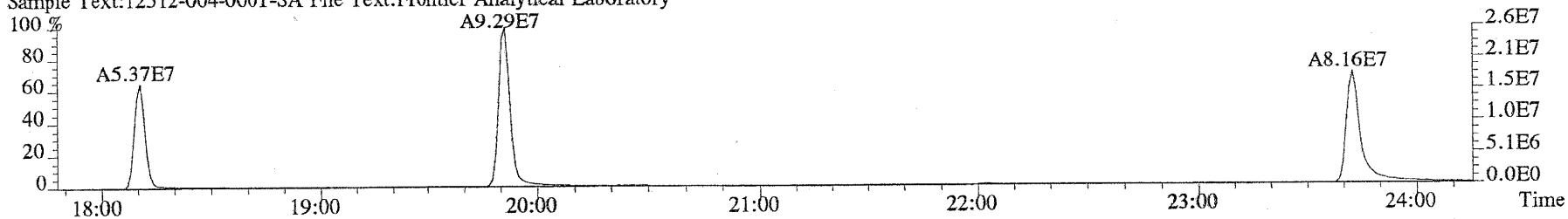
File:06AUG19Z #1-520 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



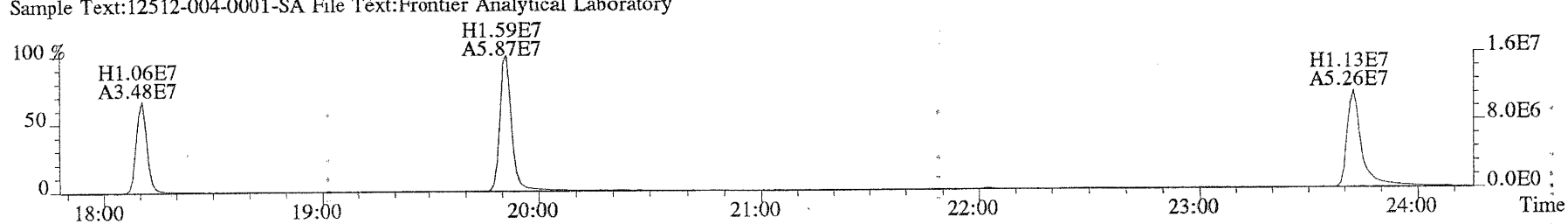
File:06AUG19Z #1-520 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



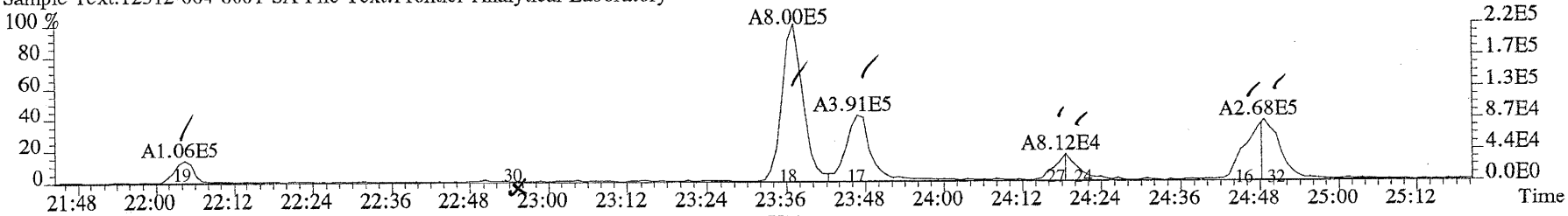
File:06AUG19Z #1-520 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



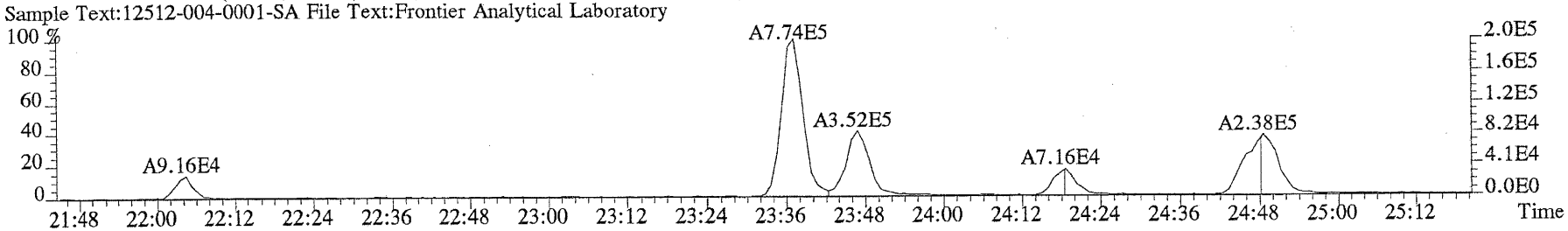
File:06AUG19Z #1-520 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



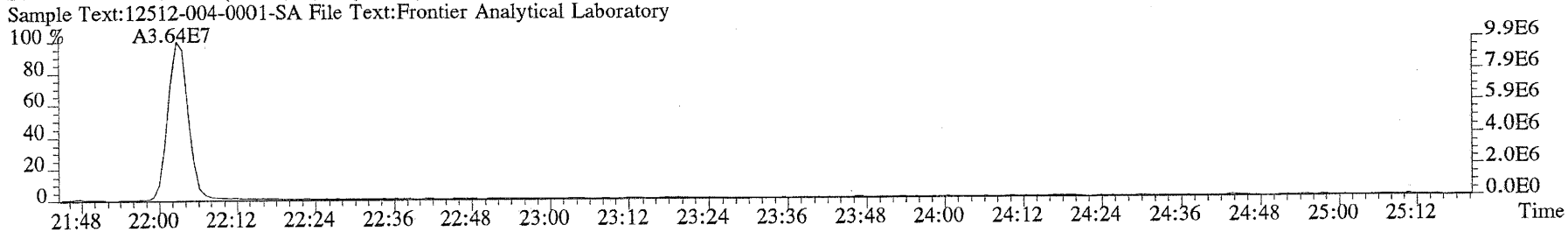
File:06AUG19Z #1-520 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



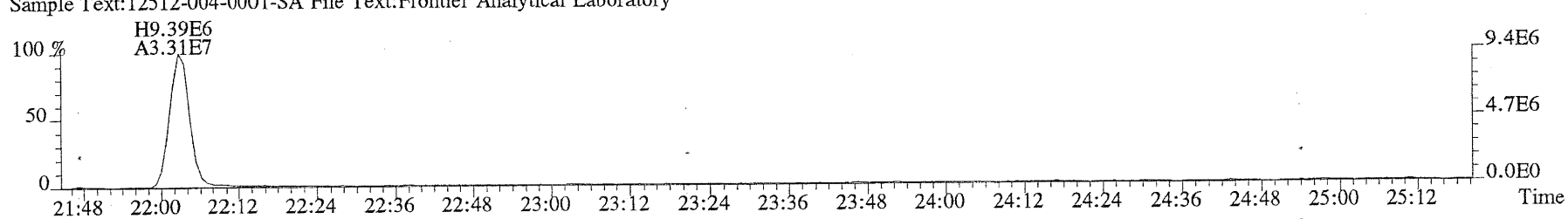
File:06AUG19Z #1-520 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



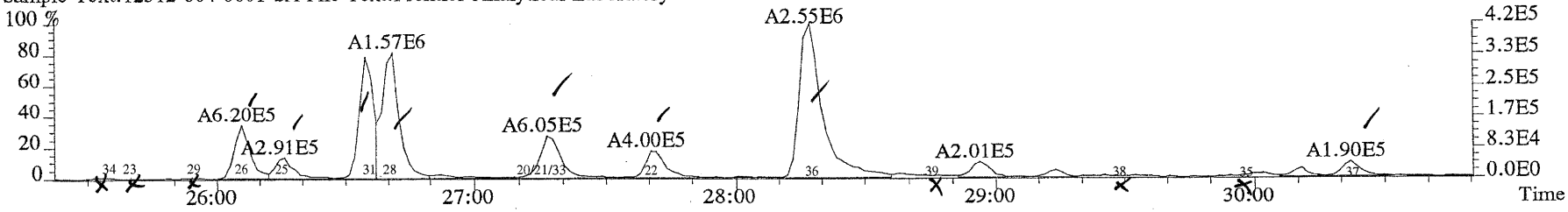
File:06AUG19Z #1-520 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



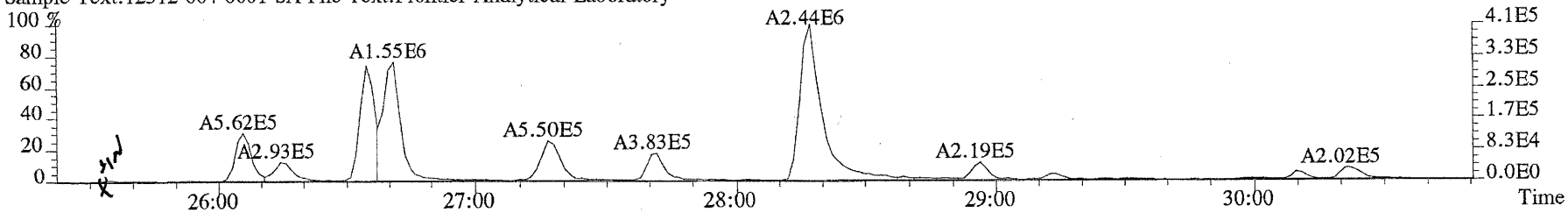
File:06AUG19Z #1-520 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



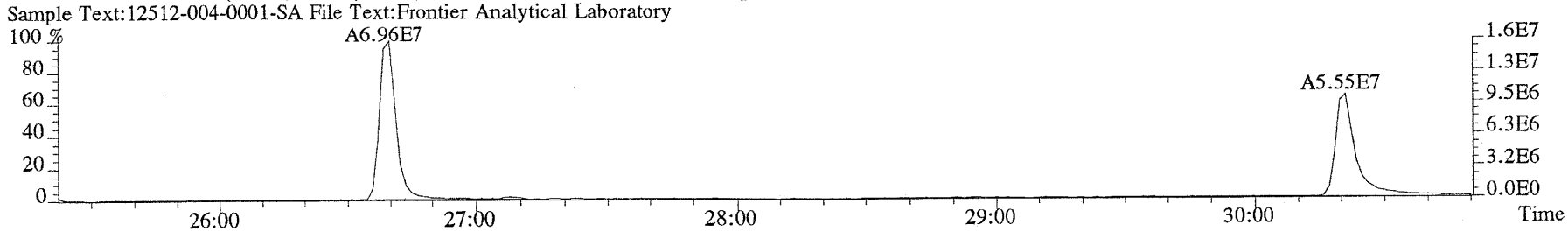
File:06AUG19Z #1-401 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



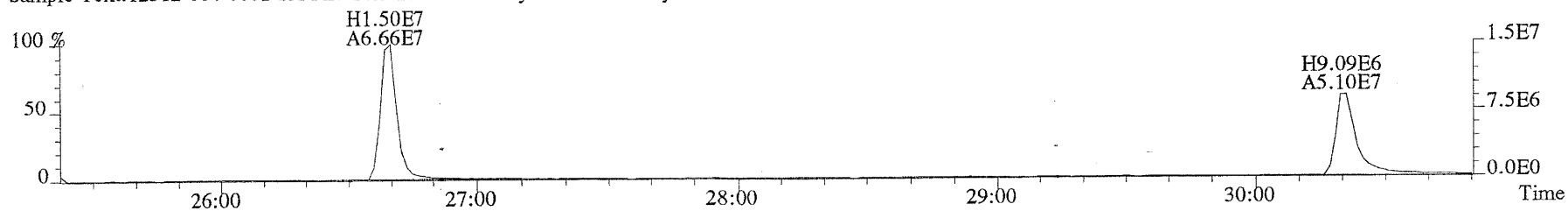
File:06AUG19Z #1-401 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



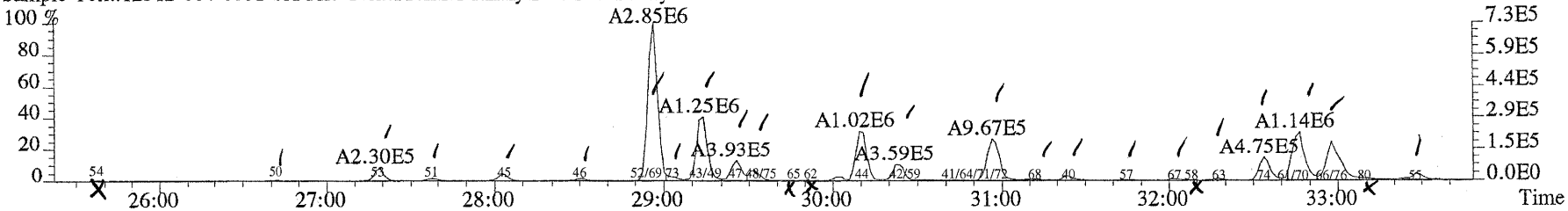
File:06AUG19Z #1-401 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



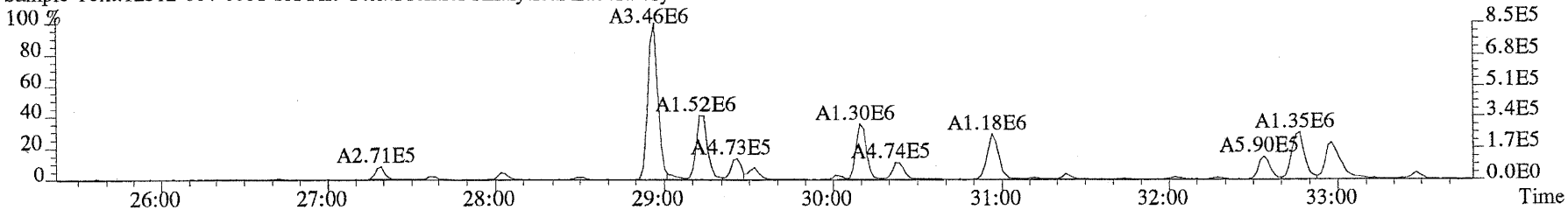
File:06AUG19Z #1-401 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



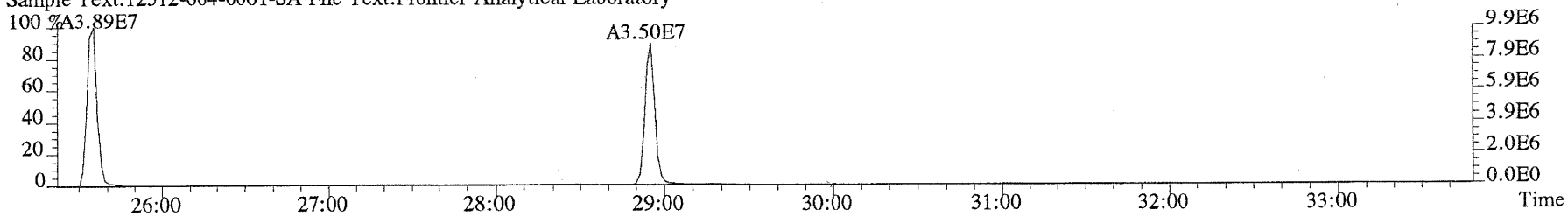
File:06AUG19Z #1-401 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



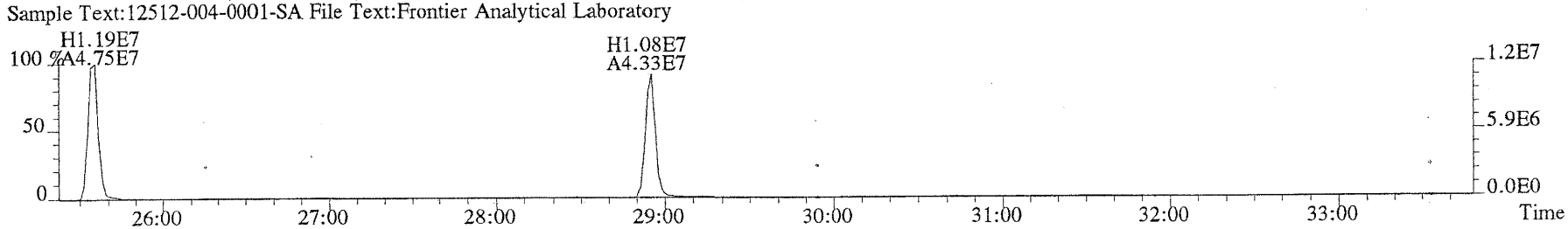
File:06AUG19Z #1-401 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



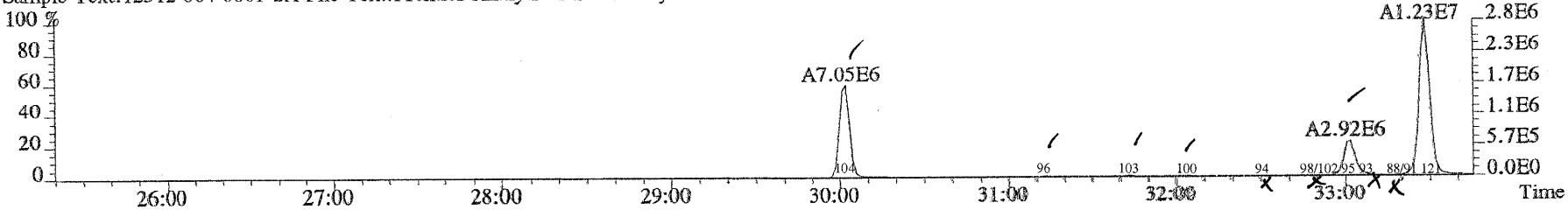
File:06AUG19Z #1-401 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



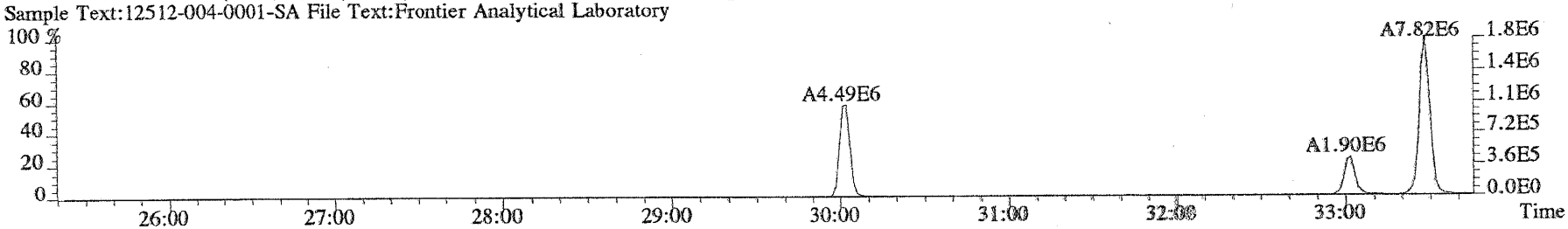
File:06AUG19Z #1-401 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



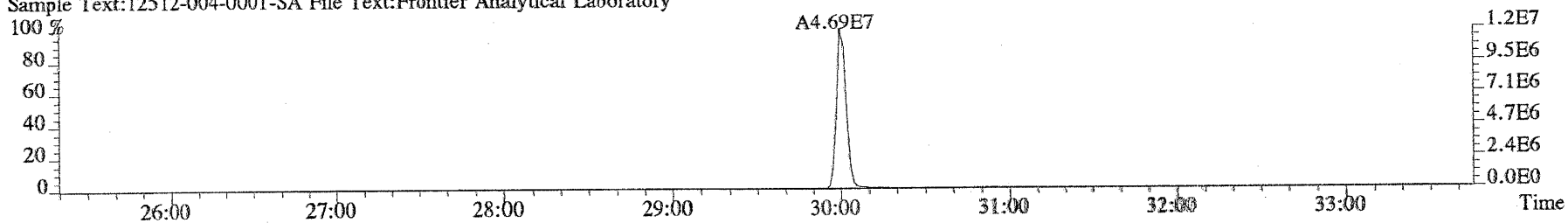
File:06AUG19Z #1-401 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



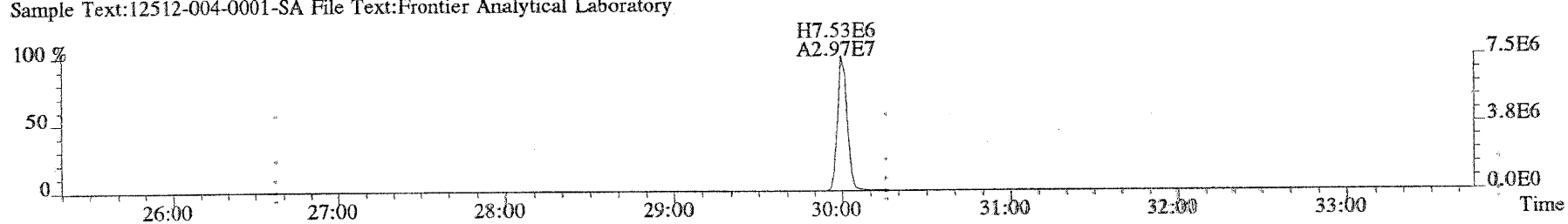
File:06AUG19Z #1-401 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



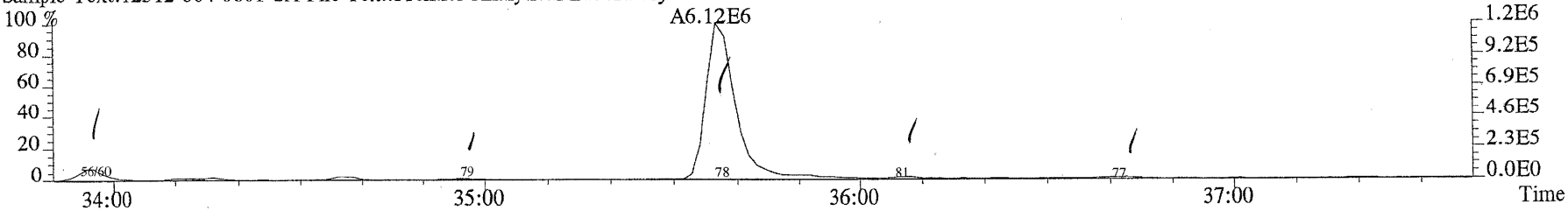
File:06AUG19Z #1-401 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



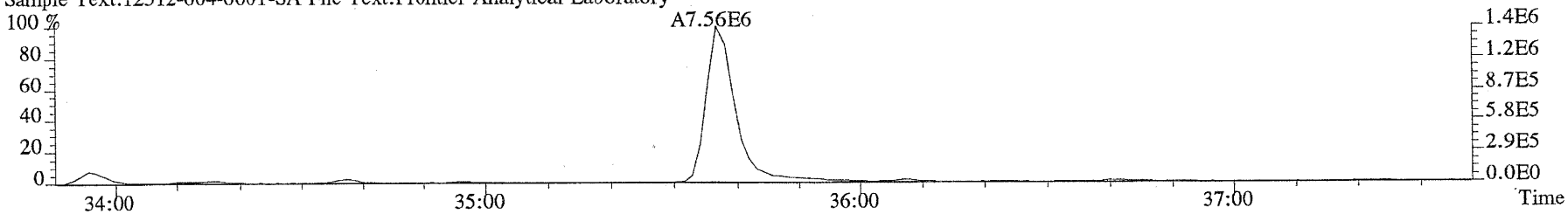
File:06AUG19Z #1-401 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



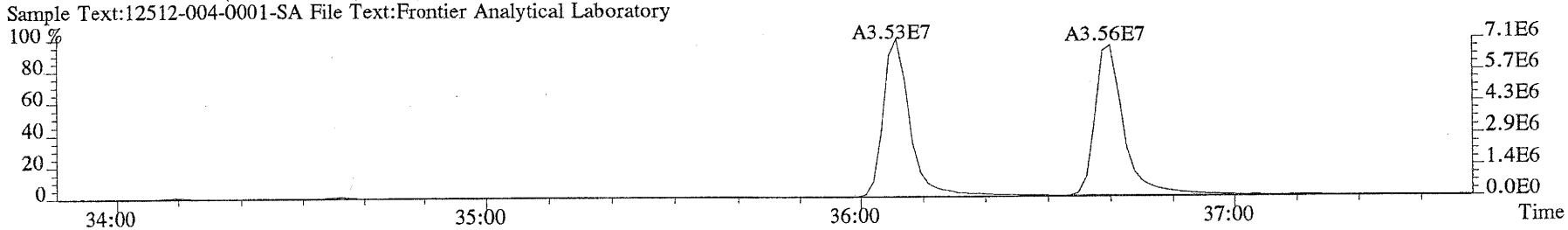
File:06AUG19Z #1-181 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



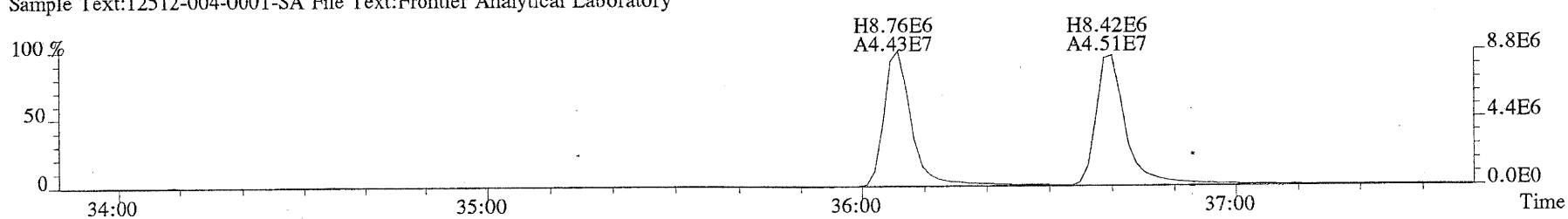
File:06AUG19Z #1-181 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



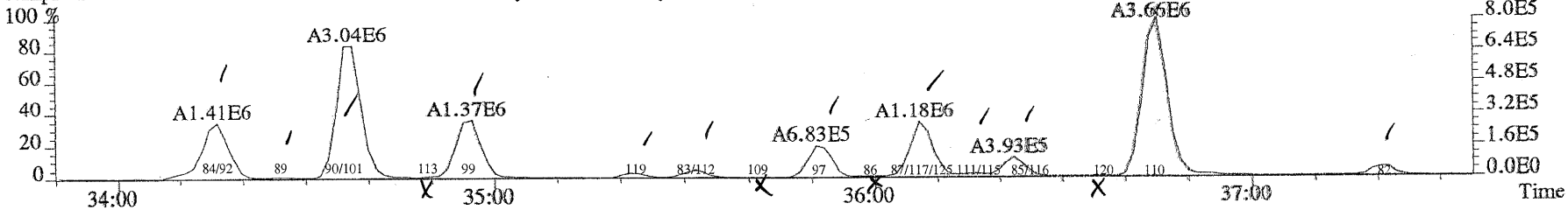
File:06AUG19Z #1-181 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



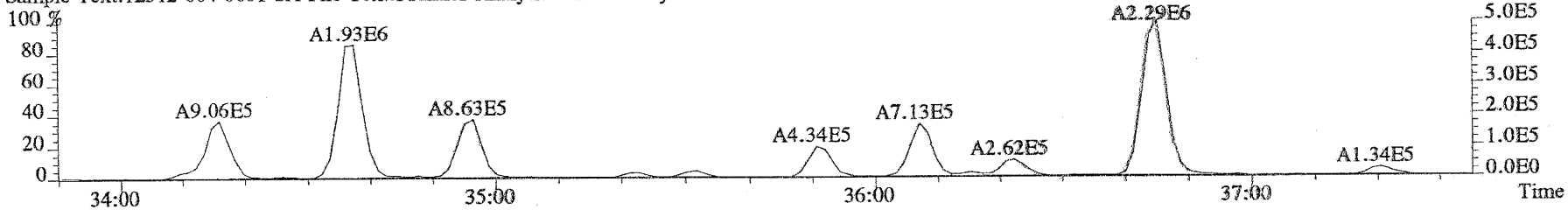
File:06AUG19Z #1-181 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



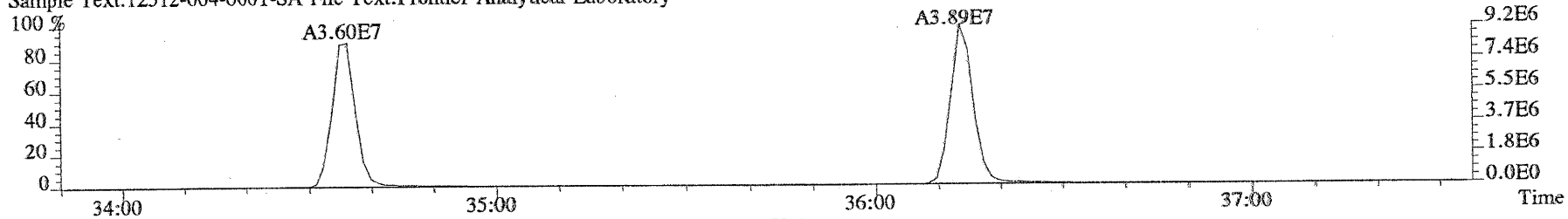
File:06AUG19Z #1-181 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



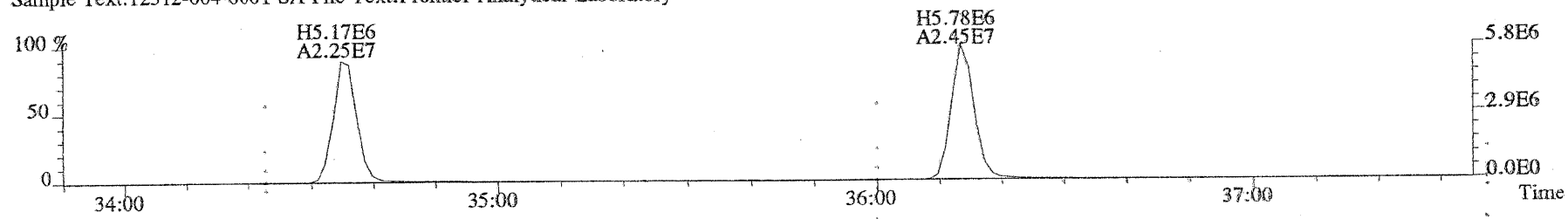
File:06AUG19Z #1-181 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



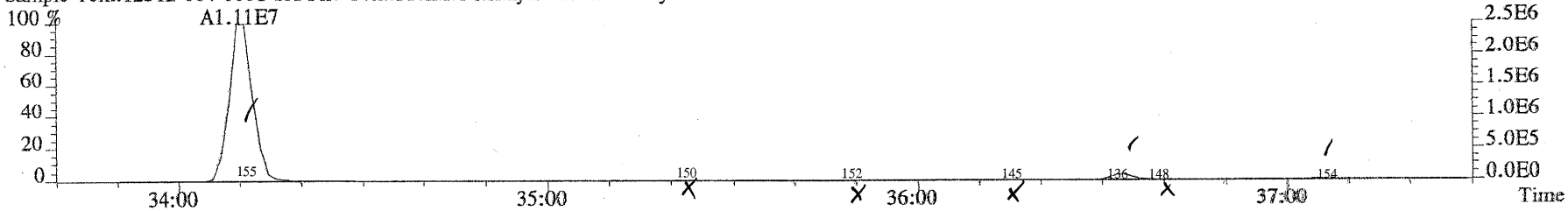
File:06AUG19Z #1-181 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



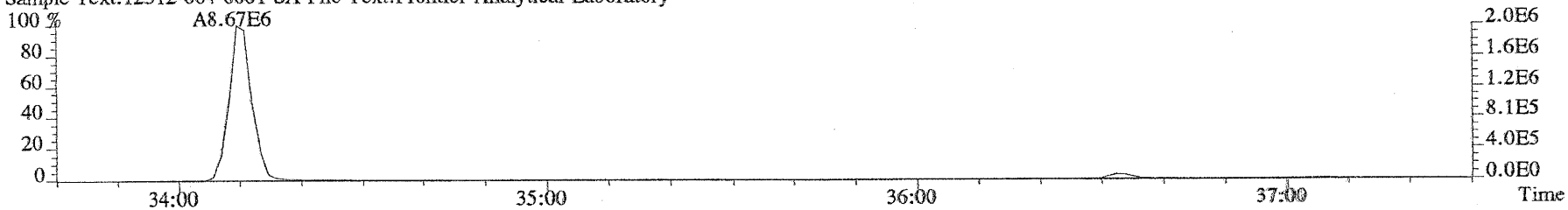
File:06AUG19Z #1-181 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



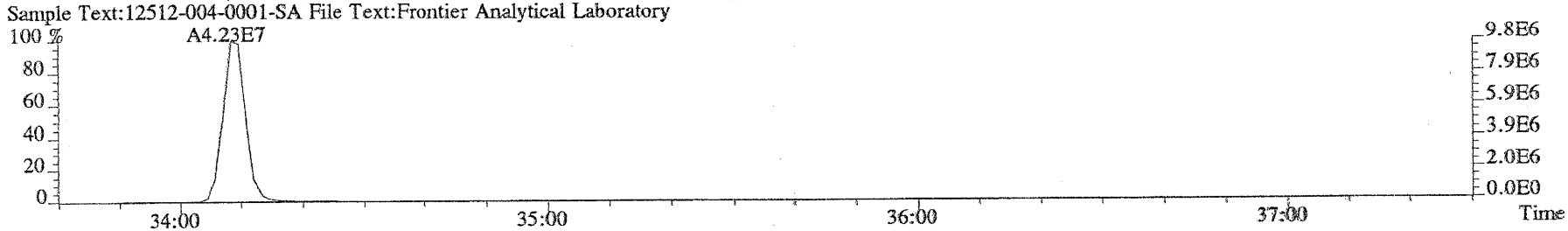
File:06AUG19Z #1-181 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



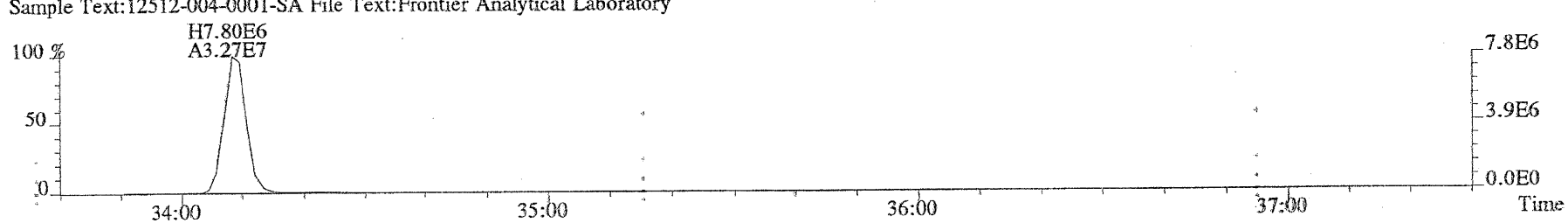
File:06AUG19Z #1-181 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



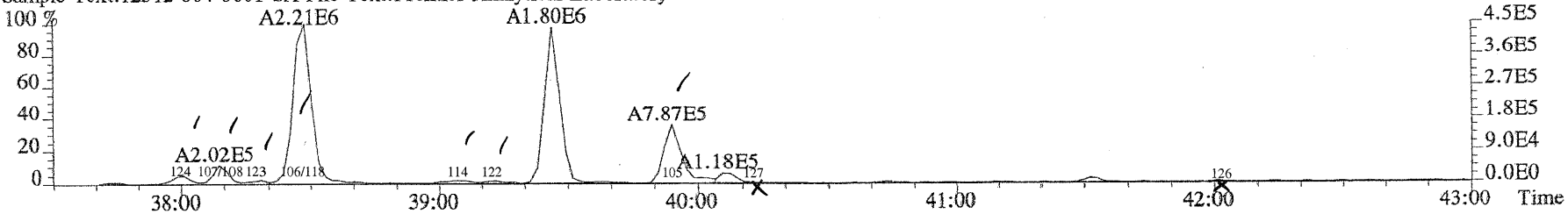
File:06AUG19Z #1-181 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



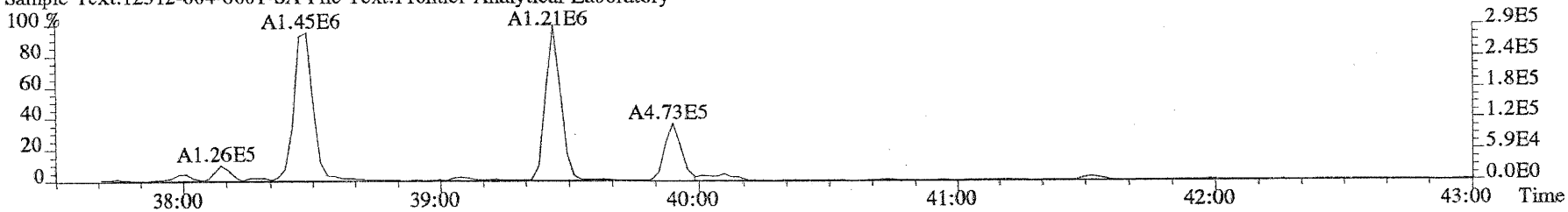
File:06AUG19Z #1-181 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



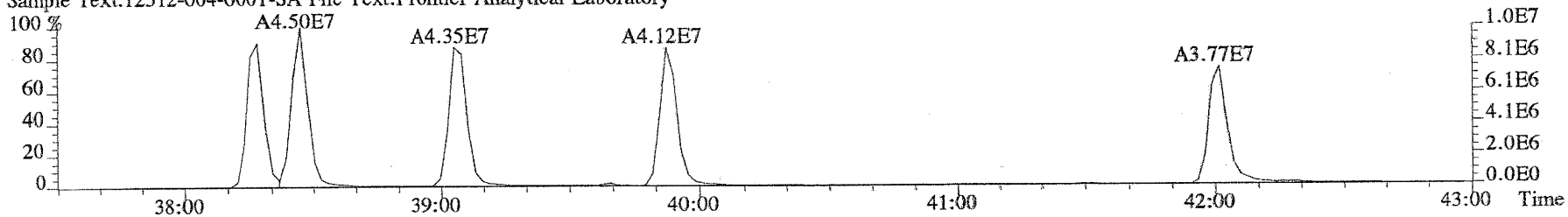
File:06AUG19Z #1-405 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



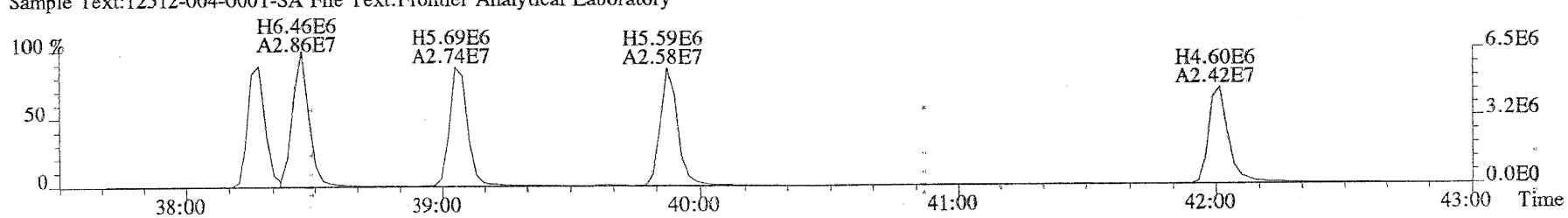
File:06AUG19Z #1-405 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



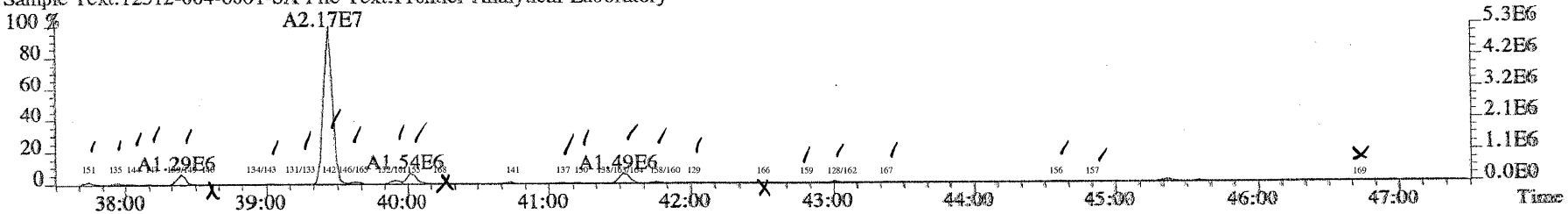
File:06AUG19Z #1-405 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



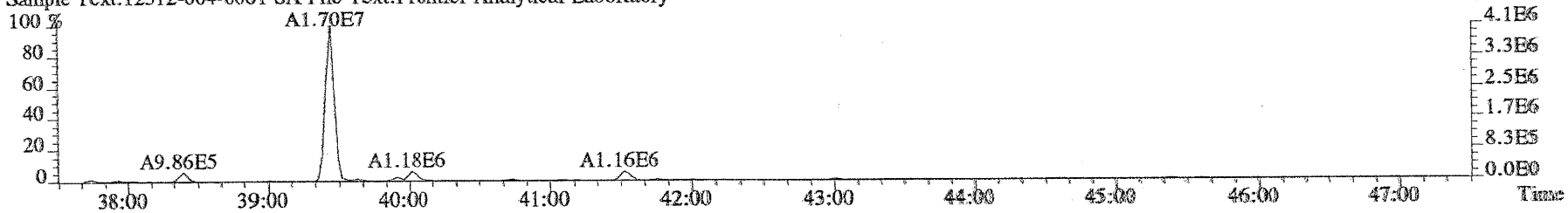
File:06AUG19Z #1-405 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



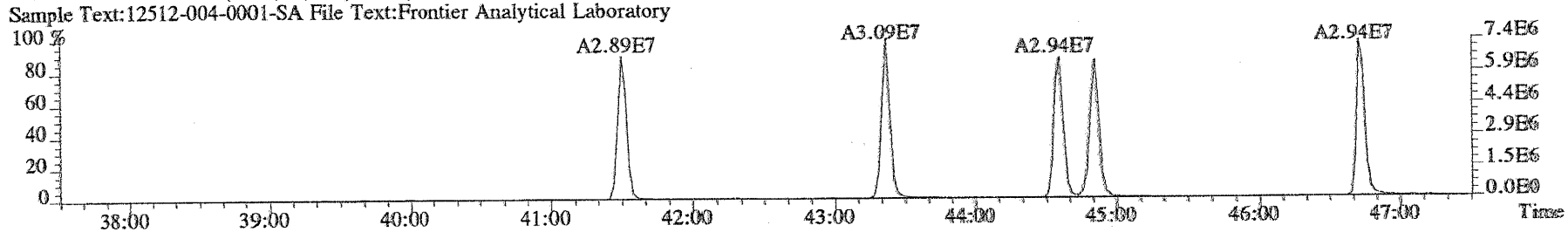
File:06AUG19Z #1-405 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



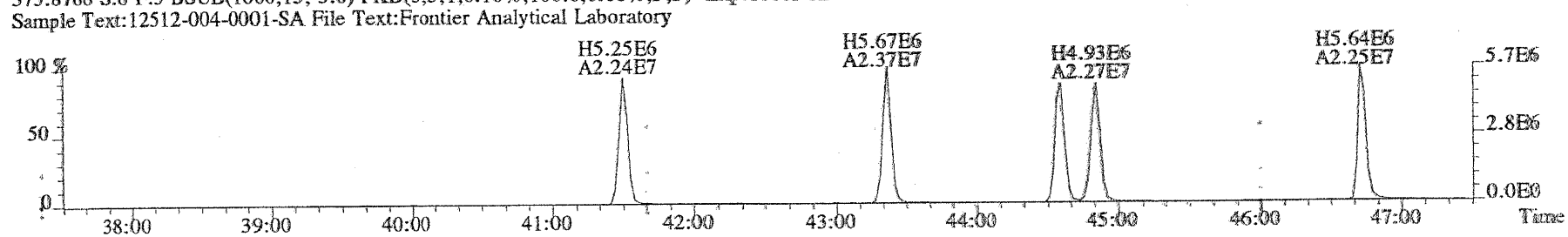
File:06AUG19Z #1-405 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



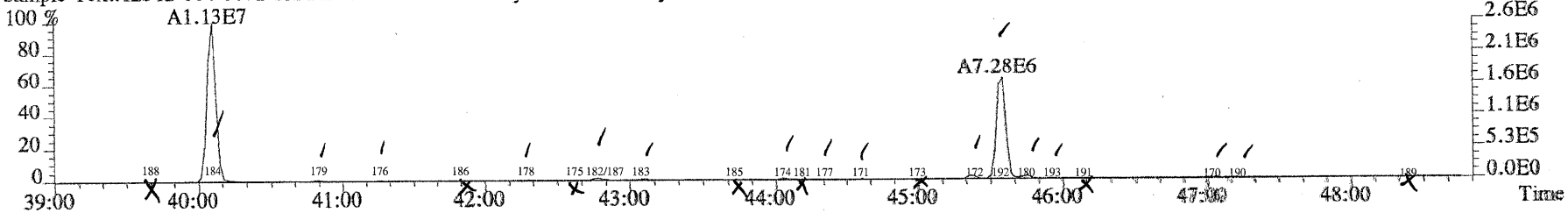
File:06AUG19Z #1-405 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



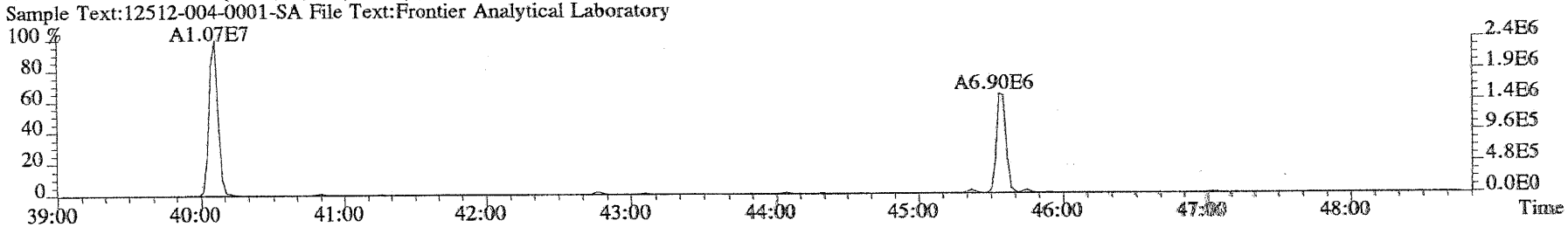
File:06AUG19Z #1-405 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



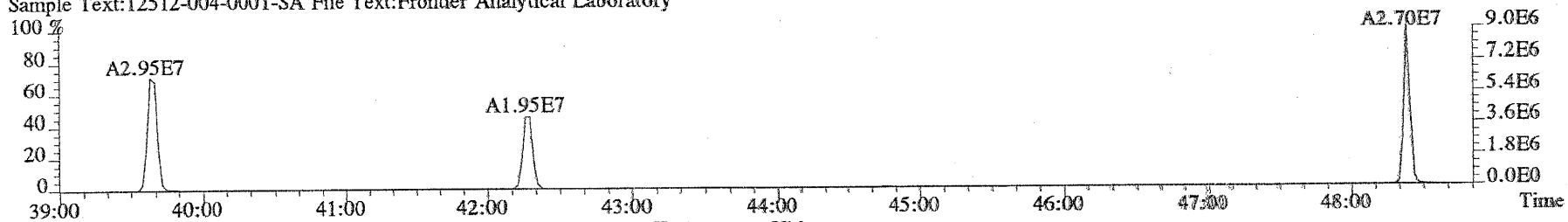
File:06AUG19Z #1-405 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



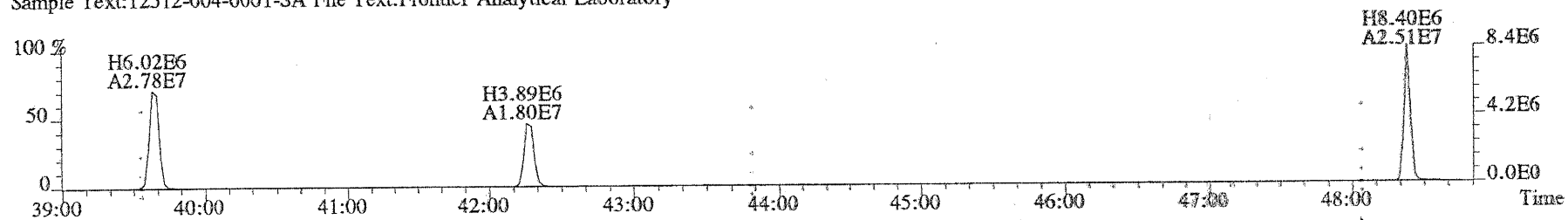
File:06AUG19Z #1-405 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



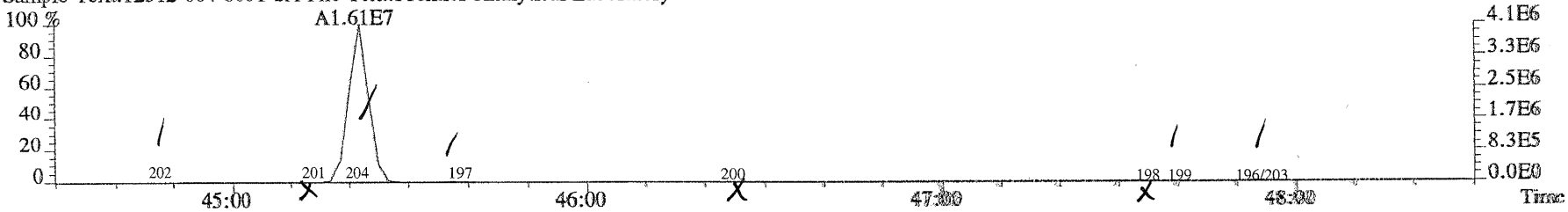
File:06AUG19Z #1-405 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



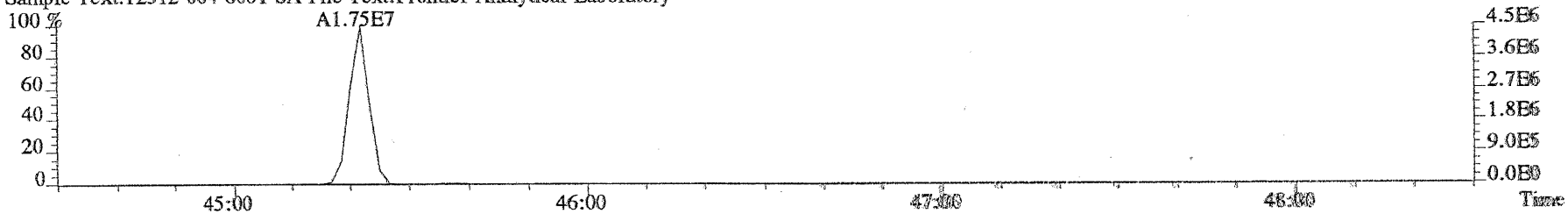
File:06AUG19Z #1-405 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



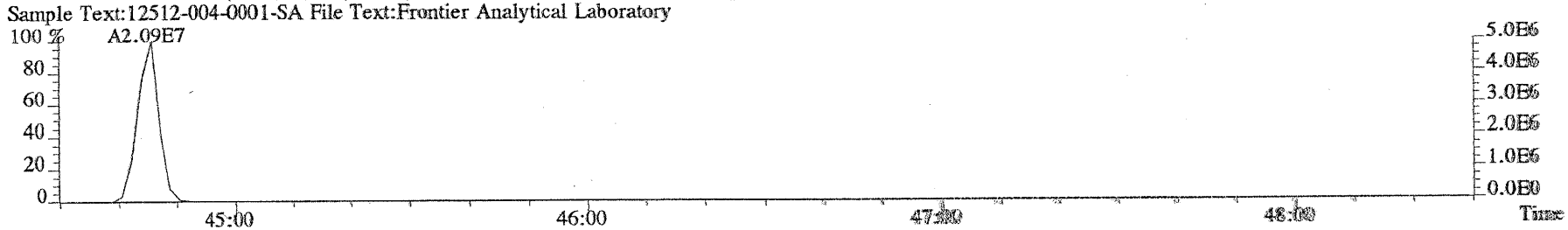
File:06AUG19Z #1-405 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



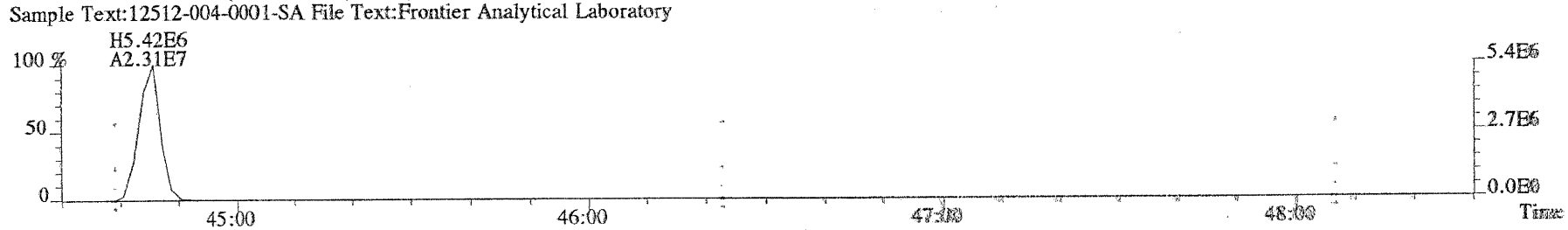
File:06AUG19Z #1-405 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



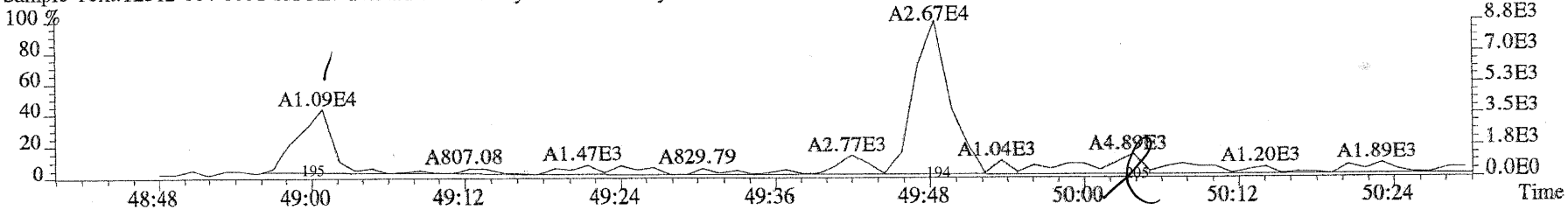
File:06AUG19Z #1-405 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



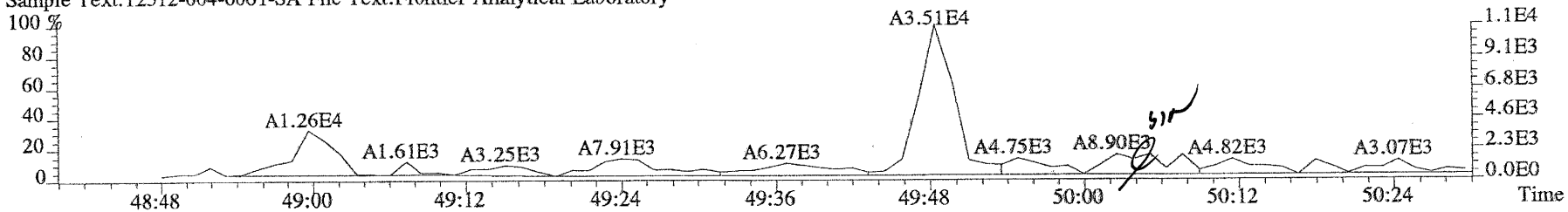
File:06AUG19Z #1-405 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



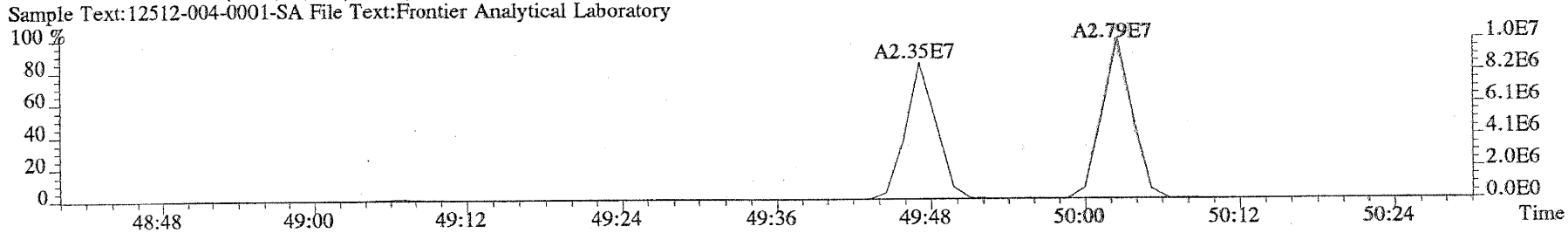
File:06AUG19Z #1-315 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



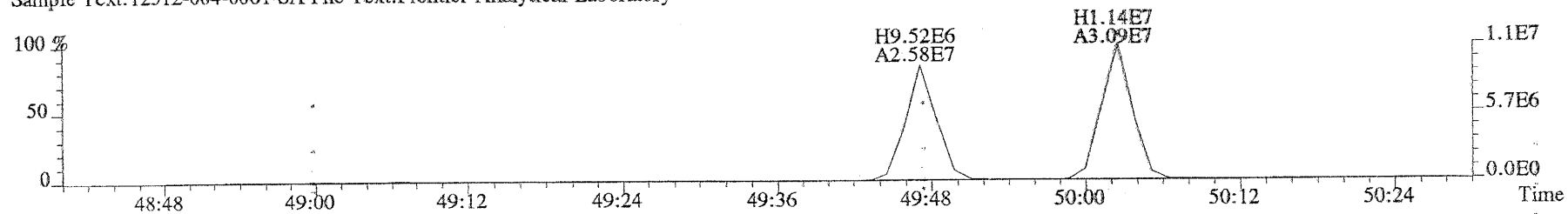
File:06AUG19Z #1-315 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



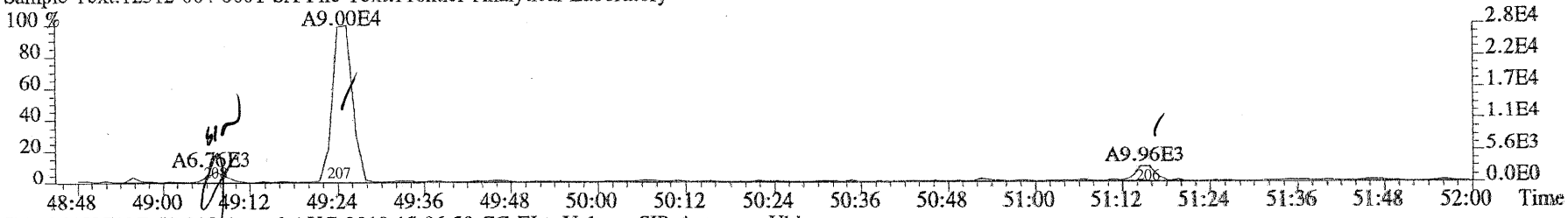
File:06AUG19Z #1-315 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



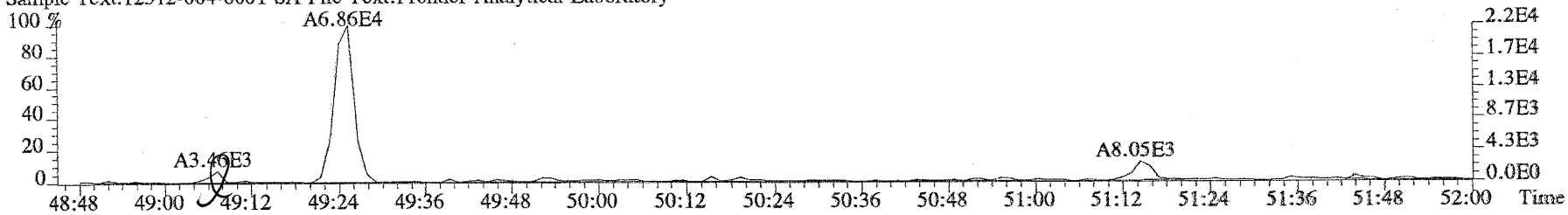
File:06AUG19Z #1-315 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



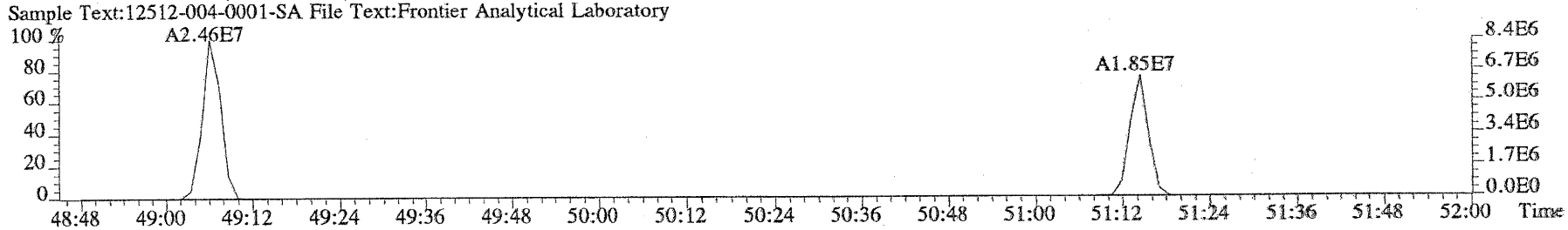
File:06AUG19Z #1-315 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



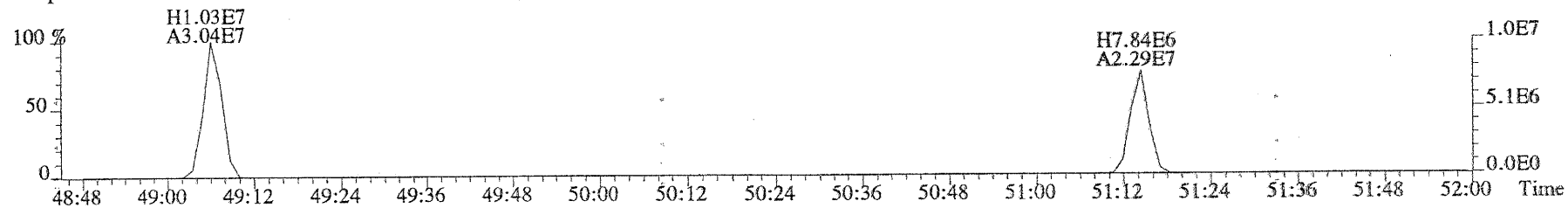
File:06AUG19Z #1-315 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



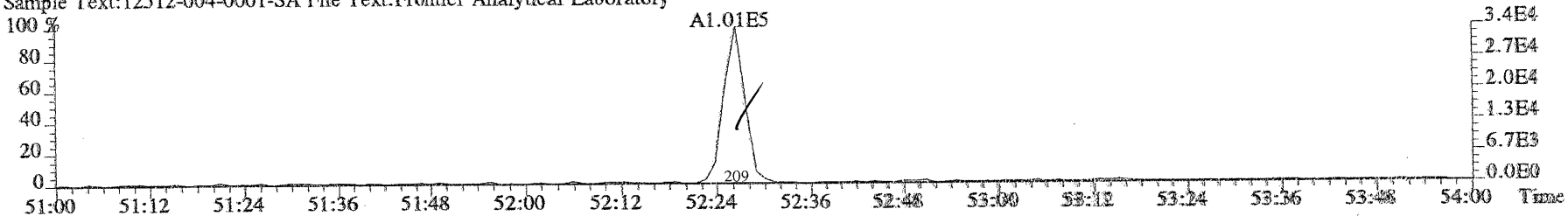
File:06AUG19Z #1-315 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



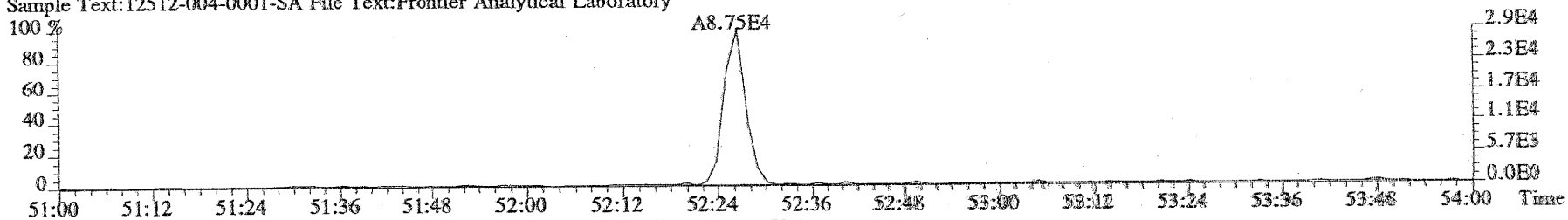
File:06AUG19Z #1-315 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



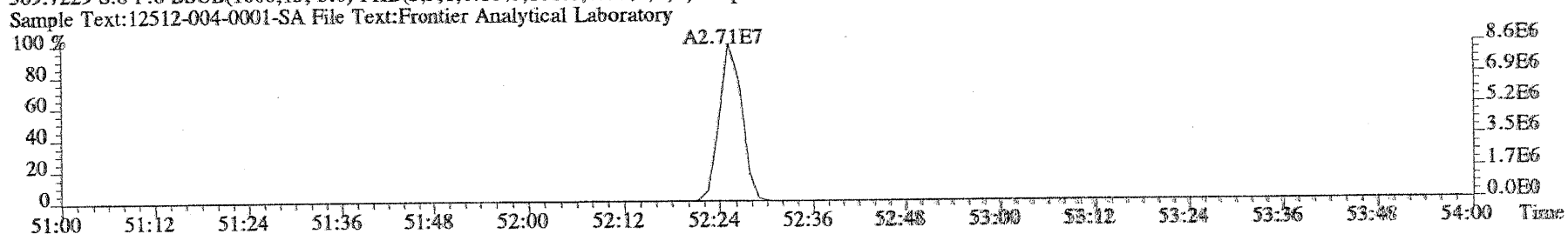
File:06AUG19Z #1-315 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



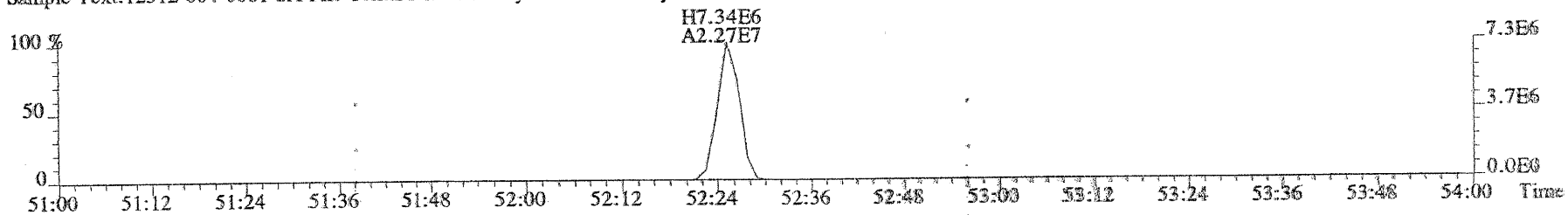
File:06AUG19Z #1-315 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-315 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-315 Acq: 6-AUG-2019 15:06:50 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-004-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12512-006-0001-SA Filename: 06AUG19Z Sam:9 Acquired: 6-AUG-19 16:05:12 ICal: DAILY209FAL4-8-6-19
Client ID: LDW-Y2-SC-ENR+AC-CB-S010 ConCal: ST080619Z1 EndCal: ST080619Z2
Results: Y GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	1.16	*		2080	1550	1.82	
13C-PCB-1	1.29e+08	3.16	y	14:31	0.90	7620					76.2
PCB-2	*	*	n	NotFnd	1.18	*		2080	1550	1.89	
PCB-3	*	*	n	NotFnd	1.17	*		2080	1550	2.00	
13C-PCB-3	1.34e+08	3.23	y	16:57	0.89	8000					80.0
PCB-4	1.06e+06	1.58	y	18:11	1.21	83.2		-	-	*	
PCB-10	*	*	n	NotFnd	1.31	*		730	11800	7.18	
13C-PCB-4	1.06e+08	1.56	y	18:11	0.67	8400					84.0
PCB-9	3.31e+05	1.50	y	19:52	1.45	17.3	J	-	-	*	
PCB-7	1.81e+05	1.36	y	19:56	1.45	9.38	J	-	-	*	
PCB-6	1.21e+06	1.59	y	20:30	1.48	61.5		-	-	*	
PCB-8	5.13e+06	1.37	y	20:52	1.40	277		-	-	*	
PCB-5	*	*	n	NotFnd	1.40	*		730	11800	6.75	
PCB-14	4.00e+06	1.52	y	21:56	1.29	234		-	-	*	
PCB-11	4.60e+05	1.47	y	23:04	1.18	29.4		-	-	*	
PCB-13	*	*	n	NotFnd	1.17	*		730	11800	8.04	
PCB-12	*	*	n	NotFnd	1.24	*		730	11800	7.62	
PCB-15	1.68e+06	1.66	y	23:43	1.10	95.2		-	-	*	
13C-PCB-15	1.60e+08	1.56	y	23:41	0.89	9580					95.8
PCB-19	1.16e+06	1.03	y	22:04	1.18	123		-	-	*	
PCB-30	*	*	n	NotFnd	1.71	*		2280	652	1.90	
PCB-18	1.47e+07	1.06	y	23:36	1.12	1650		-	-	*	
PCB-17	6.96e+06	1.06	y	23:47	1.24	703		-	-	*	
PCB-27	8.03e+05	1.10	y	24:18	1.63	61.5		-	-	*	
PCB-24	9.98e+05	1.03	y	24:19	1.56	80.2		-	-	*	
PCB-16	5.85e+06	1.07	y	24:48	1.31	557		-	-	*	
PCB-32	5.07e+06	1.11	y	24:49	1.43	445		-	-	*	
13C-PCB-19	7.99e+07	1.07	y	22:03	0.50	8460					84.6
13C-PCB-9	1.88e+08	1.61	y	19:50	-	85.7					
PCB-34	1.18e+05	1.10	y	25:34	1.29	7.49	J	-	-	*	
PCB-23	7.40e+04	1.07	y	25:39	1.31	4.63	J	-	-	*	
PCB-29	2.41e+05	1.09	y	25:53	1.26	15.7	J	-	-	*	
PCB-26	4.26e+06	1.05	y	26:06	1.29	269		-	-	*	
PCB-25	2.24e+06	1.14	y	26:14	1.28	143		-	-	*	
PCB-31	1.93e+07	1.04	y	26:35	1.28	1230		-	-	*	
PCB-28	2.29e+07	1.05	y	26:40	1.52	1230		-	-	*	
PCB-20	1.47e+07	1.09	y	27:16	1.26	953		-	-	*	Co-elute PCB 21/33
PCB-21	1.47e+07	1.09	y	27:16	1.26	953		-	-	*	Co-elute PCB 20/33
PCB-33	1.47e+07	1.09	y	27:16	1.26	953		-	-	*	Co-elute PCB 20/21
PCB-22	7.53e+06	1.11	y	27:40	1.33	462		-	-	*	
PCB-36	7.57e+06	1.09	y	28:16	1.21	510		-	-	*	
PCB-39	*	*	n	NotFnd	1.20	*		1280	1060	2.05	
PCB-38	8.72e+04	1.10	y	29:25	1.20	5.94	J	-	-	*	
PCB-35	2.41e+05	1.08	y	30:01	1.10	17.9	J	-	-	*	
PCB-37	2.85e+06	1.09	y	30:21	1.15	202		-	-	*	
13C-PCB-37	1.22e+08	1.09	y	30:20	1.41	9160					91.6

PCB-54	9.55e+04	0.84	y	25:36	1.15	8.05	J	-	-	*	
PCB-50	9.22e+04	0.84	y	26:41	0.93	9.68	J	-	-	*	
PCB-53	2.07e+06	0.80	y	27:18	0.91	221		-	-	*	
PCB-51	7.14e+05	0.82	y	27:38	0.91	76.0		-	-	*	
PCB-45	2.05e+06	0.82	y	28:02	0.77	259		-	-	*	
PCB-46	8.20e+05	0.80	y	28:30	0.73	109		-	-	*	
PCB-52	7.95e+06	0.80	y	28:56	0.87	887		-	-	*	Co-elute PCB 69
PCB-69	7.95e+06	0.80	y	28:56	0.87	887		-	-	*	Co-elute PCB 52
PCB-73	2.10e+05	0.81	y	29:03	1.14	17.9	J	-	-	*	
PCB-43	5.54e+06	0.82	y	29:13	0.78	687		-	-	*	Co-elute PCB 49
PCB-49	5.54e+06	0.82	y	29:13	0.78	687		-	-	*	Co-elute PCB 43
PCB-47	1.88e+06	0.81	y	29:25	0.81	225		-	-	*	
PCB-48	2.21e+06	0.80	y	29:32	0.99	217		-	-	*	Co-elute PCB 75
PCB-75	2.21e+06	0.80	y	29:32	0.99	217		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*		1240	1540	2.84	
PCB-62	*	*	n	NotFnd	1.08	*		1240	1540	2.59	
PCB-44	5.44e+06	0.80	y	30:10	0.68	780		-	-	*	
PCB-42	2.87e+06	0.85	y	30:22	0.87	320		-	-	*	Co-elute PCB 59
PCB-59	2.87e+06	0.85	y	30:22	0.87	320		-	-	*	Co-elute PCB 42
PCB-72	6.72e+06	0.80	y	30:56	0.96	682		-	-	*	Co-elute PCB 41/71/64
PCB-41	6.72e+06	0.80	y	30:56	0.96	682		-	-	*	Co-elute PCB 72/71/64
PCB-71	6.72e+06	0.80	y	30:56	0.96	682		-	-	*	Co-elute PCB 72/41/64
PCB-64	6.72e+06	0.80	y	30:56	0.96	682		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.90e+05	0.81	y	31:12	1.09	16.9	J	-	-	*	
PCB-40	1.07e+06	0.83	y	31:23	0.61	171		-	-	*	
PCB-57	5.67e+04	0.70	y	31:43	0.96	5.76	J	-	-	*	
PCB-67	2.25e+05	0.84	y	32:01	0.98	22.2		-	-	*	
PCB-58	*	*	n	NotFnd	0.98	*		1240	1540	2.85	
PCB-63	2.16e+05	0.86	y	32:17	0.96	21.8		-	-	*	
PCB-74	2.45e+06	0.83	y	32:34	0.96	247		-	-	*	
PCB-61	4.95e+06	0.82	y	32:45	0.92	521		-	-	*	Co-elute PCB 70
PCB-70	4.95e+06	0.82	y	32:45	0.92	521		-	-	*	Co-elute PCB 61
PCB-76	4.80e+06	0.82	y	32:58	1.00	465		-	-	*	Co-elute PCB 66
PCB-66	4.80e+06	0.82	y	32:58	1.00	465		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.16	*		1240	1540	2.42	
PCB-55	4.67e+05	0.78	y	33:28	1.01	45.1		-	-	*	
13C-PCB-54	1.03e+08	0.82	y	25:34	1.31	8330					83.3
PCB-104	1.53e+07	1.55	y	30:01	1.09	1560		-	-	*	
PCB-96	6.93e+04	1.64	y	31:13	1.01	7.65	J	-	-	*	
PCB-103	8.47e+04	1.52	y	31:43	0.80	11.9	J	-	-	*	
PCB-100	7.02e+04	1.39	y	32:03	0.79	9.85	J	-	-	*	
PCB-94	2.99e+04	1.61	y	32:30	0.65	5.13	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.70	*		304	396	1.11	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.70	*		304	396	1.11	Co-elute PCB 98
PCB-95	3.20e+06	1.55	y	33:00	0.68	523		-	-	*	
PCB-93	*	*	n	NotFnd	0.65	*		304	396	1.20	
PCB-88	*	*	n	NotFnd	0.73	*		304	396	1.06	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.73	*		304	396	1.06	Co-elute PCB 88
PCB-121	2.34e+07	1.58	y	33:28	0.89	2920		-	-	*	
13C-PCB-104	8.97e+07	1.58	y	29:59	1.05	9050					90.5
13C-PCB-28	1.65e+08	1.04	y	26:38	1.82	9620					96.2
13C-PCB-52	9.45e+07	0.81	y	28:55	-	99.9					

PCB-56	3.43e+06	0.79	y	33:56	1.12	317		-	-	*	Co-elute PCB 60
PCB-60	3.43e+06	0.79	y	33:56	1.12	317		-	-	*	Co-elute PCB 56
PCB-79	7.97e+04	0.86	y	34:56	1.14	7.26	J	-	-	*	
PCB-78	1.65e+07	0.80	y	35:37	1.11	1540		-	-	*	
PCB-81	2.41e+05	0.72	y	36:08	1.21	20.7		-	-	*	
13C-PCB-81	9.58e+07	0.79	y	36:06	1.53	8680					86.8
PCB-77	2.98e+05	0.78	y	36:40	1.04	29.6		-	-	*	
13C-PCB-77	9.68e+07	0.79	y	36:39	1.58	8460					84.6
PCB-155	2.36e+07	1.29	y	34:10	1.03	2650		-	-	*	
PCB-150	*	*	n	NotFnd	0.99	*		608	356	1.16	
PCB-152	*	*	n	NotFnd	0.97	*		608	356	1.18	
PCB-145	*	*	n	NotFnd	1.01	*		608	356	1.13	
PCB-136	5.80e+05	1.28	y	36:32	0.96	70.1		-	-	*	
PCB-148	*	*	n	NotFnd	0.72	*		608	356	1.59	
PCB-154	1.13e+05	1.17	y	37:07	0.79	16.6	J	-	-	*	
13C-PCB-155	8.65e+07	1.31	y	34:08	1.32	9070					90.7
13C-PCB-111	7.65e+07	1.59	y	36:13	1.22	8700					87.0
13C-PCB-101	7.22e+07	1.58	y	34:35	-	100					
PCB-84	1.55e+06	1.59	y	34:16	0.75	246		-	-	*	Co-elute PCB 92
PCB-92	1.55e+06	1.59	y	34:16	0.75	246		-	-	*	Co-elute PCB 84
PCB-89	7.24e+04	1.47	y	34:27	0.78	11.1	J	-	-	*	
PCB-90	3.16e+06	1.60	y	34:36	0.88	430		-	-	*	Co-elute PCB 101
PCB-101	3.16e+06	1.60	y	34:36	0.88	430		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.94	*		1690	1220	4.28	
PCB-99	1.41e+06	1.55	y	34:55	1.00	169		-	-	*	
PCB-119	1.23e+05	1.37	y	35:22	1.10	13.4	J	-	-	*	
PCB-83	1.54e+05	1.65	y	35:30	0.87	21.2		-	-	*	Co-elute PCB 112
PCB-112	1.54e+05	1.65	y	35:30	0.87	21.2		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.06	*		1690	1220	3.82	
PCB-97	6.90e+05	1.56	y	35:51	0.73	112		-	-	*	
PCB-86	*	*	n	NotFnd	0.73	*		1690	1220	5.49	
PCB-125	1.06e+06	1.51	y	36:07	0.97	130		-	-	*	Co-elute PCB 87/117
PCB-87	1.06e+06	1.51	y	36:07	0.97	130		-	-	*	Co-elute PCB 125/117
PCB-117	1.06e+06	1.51	y	36:07	0.97	130		-	-	*	Co-elute PCB 125/87
PCB-111	7.26e+04	1.40	y	36:17	1.17	7.42	J	-	-	*	Co-elute PCB 115
PCB-115	7.26e+04	1.40	y	36:17	1.17	7.42	J	-	-	*	Co-elute PCB 111
PCB-85	4.42e+05	1.56	y	36:22	0.90	58.4		-	-	*	Co-elute PCB 116
PCB-116	4.42e+05	1.56	y	36:22	0.90	58.4		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.13	*		1690	1220	3.57	
PCB-110	3.13e+06	1.55	y	36:45	1.09	342		-	-	*	
PCB-82	2.27e+05	1.49	y	37:20	0.63	43.1		-	-	*	
PCB-124	1.15e+05	1.38	y	37:59	1.06	13.0	J	-	-	*	
PCB-108	1.83e+05	1.70	y	38:09	1.09	20.0		-	-	*	Co-elute PCB 107
PCB-107	1.83e+05	1.70	y	38:09	1.09	20.0		-	-	*	Co-elute PCB 108
PCB-123	5.02e+04	1.36	y	38:19	1.05	5.90	J	-	-	*	
13C-PCB-123	8.09e+07	1.59	y	38:15	1.27	10100					101
PCB-118	2.21e+06	1.53	y	38:28	1.05	238		-	-	*	Co-elute PCB 106
PCB-106	2.21e+06	1.53	y	38:28	1.05	238		-	-	*	Co-elute PCB 118
13C-PCB-118	8.84e+07	1.60	y	38:27	1.44	9690					96.9
PCB-114	6.04e+04	1.37	y	39:05	1.11	6.36	J	-	-	*	
13C-PCB-114	8.53e+07	1.58	y	39:03	1.35	9960					99.6
PCB-122	3.86e+04	1.57	y	39:11	1.09	4.22	J	-	-	*	
PCB-105	7.88e+05	1.60	y	39:54	1.14	85.6		-	-	*	
13C-PCB-105	8.10e+07	1.61	y	39:52	1.37	9360					93.6

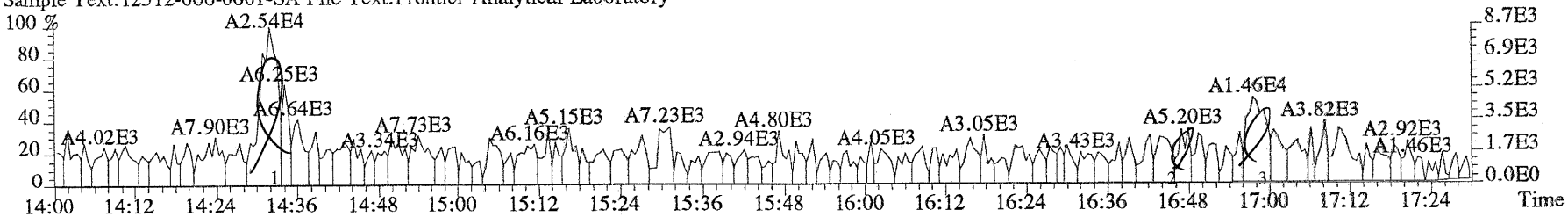
PCB-127	*	*	n	NotFnd	1.04	*		956	960	2.56	
PCB-126	*	*	n	NotFnd	1.09	*		956	960	3.03	
13C-PCB-126	7.61e+07	1.58	y	42:01	1.26	9560					95.6
PCB-151	5.70e+05	1.30	y	37:44	0.84	105		-	-	*	
PCB-135	3.32e+05	1.37	y	37:56	0.88	57.8		-	-	*	
PCB-144	1.53e+05	1.35	y	38:02	0.89	26.5		-	-	*	
PCB-147	5.64e+04	1.36	y	38:09	0.97	8.92	J	-	-	*	
PCB-139	2.17e+06	1.25	y	38:24	0.98	341		-	-	*	Co-elute PCB 149
PCB-149	2.17e+06	1.25	y	38:24	0.98	341		-	-	*	Co-elute PCB 139
PCB-140	2.91e+04	1.32	y	38:35	0.96	4.64	J	-	-	*	
PCB-143	1.38e+05	1.40	y	39:01	0.79	26.9		-	-	*	Co-elute PCB 134
PCB-134	1.38e+05	1.40	y	39:01	0.79	26.9		-	-	*	Co-elute PCB 143
PCB-131	6.16e+04	1.19	y	39:16	0.79	12.0	J	-	-	*	Co-elute PCB 133
PCB-133	6.16e+04	1.19	y	39:16	0.79	12.0	J	-	-	*	Co-elute PCB 131
PCB-142	4.16e+07	1.28	y	39:26	0.82	7770		-	-	*	
PCB-165	4.66e+05	1.13	y	39:38	1.09	65.9		-	-	*	Co-elute PCB 146
PCB-146	4.66e+05	1.13	y	39:38	1.09	65.9		-	-	*	Co-elute PCB 165
PCB-161	6.70e+05	1.18	y	39:54	1.04	98.5		-	-	*	Co-elute PCB 132
PCB-132	6.70e+05	1.18	y	39:54	1.04	98.5		-	-	*	Co-elute PCB 161
PCB-153	2.50e+06	1.20	y	40:01	1.03	372		-	-	*	
PCB-168	*	*	n	NotFnd	1.23	*		976	744	2.37	
PCB-141	3.05e+05	1.26	y	40:43	0.89	52.9		-	-	*	
PCB-137	7.04e+04	1.32	y	41:05	0.89	12.1	J	-	-	*	
PCB-130	1.08e+05	1.17	y	41:11	0.73	22.6		-	-	*	
PCB-138	2.00e+06	1.34	y	41:31	1.08	285		-	-	*	Co-elute PCB 163/164
PCB-163	2.00e+06	1.34	y	41:31	1.08	285		-	-	*	Co-elute PCB 138/164
PCB-164	2.00e+06	1.34	y	41:31	1.08	285		-	-	*	Co-elute PCB 138/163
PCB-158	2.25e+05	1.10	y	41:44	1.20	28.8		-	-	*	Co-elute PCB 160
PCB-160	2.25e+05	1.10	y	41:44	1.20	28.8		-	-	*	Co-elute PCB 158
PCB-129	7.08e+04	1.17	y	41:59	0.76	14.4	J	-	-	*	
PCB-166	*	*	n	NotFnd	1.12	*		976	744	2.60	
PCB-159	7.82e+04	1.32	y	42:47	1.22	9.86	J	-	-	*	
PCB-128	2.49e+05	1.32	y	43:00	0.99	38.6		-	-	*	Co-elute PCB 162
PCB-162	2.49e+05	1.32	y	43:00	0.99	38.6		-	-	*	Co-elute PCB 128
PCB-167	7.47e+04	1.22	y	43:21	1.10	10.2	J	-	-	*	
13C-PCB-167	6.63e+07	1.29	y	43:21	1.18	8920					89.2
PCB-156	1.38e+05	1.34	y	44:36	1.18	18.7	J	-	-	*	
13C-PCB-156	6.24e+07	1.29	y	44:36	1.15	8580					85.8
PCB-157	4.20e+04	1.33	y	44:52	1.12	5.69	J	-	-	*	
13C-PCB-157	6.60e+07	1.29	y	44:50	1.18	8880					88.8
PCB-169	*	*	n	NotFnd	1.08	*		976	744	2.25	
13C-PCB-169	6.55e+07	1.28	y	46:42	1.06	9800					98.0

FAL ID: 12512-006-0001-SA Filename: 06AUG19Z Sam:9 Acquired: 6-AUG-19 16:05:12 ICal: DAILY209FAL4-8-6-19
Client ID: LDW-Y2-SC-ENR+AC-CB-S010 ConCal: ST080619Z1 EndCal: ST080619Z2
Results: Y GC Column: DB1MS Amount: 1.000

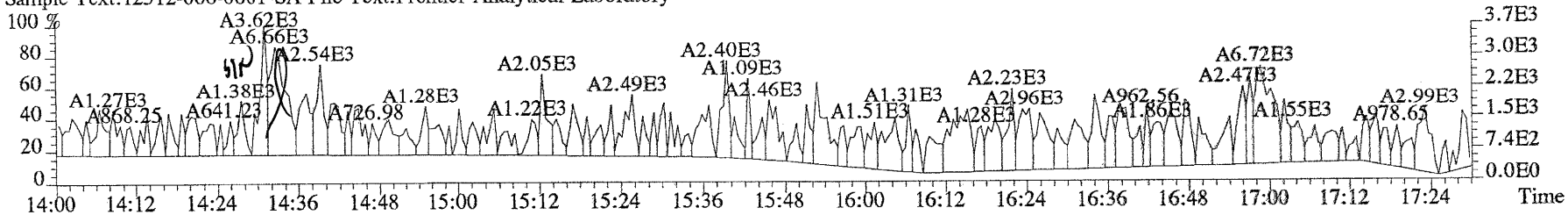
PCB-188	6.88e+04	1.14	y	39:39	1.02	9.89	J	-	-	*	
13C-PCB-188	6.83e+07	1.07	y	39:38	1.19	9090					90.9
PCB-184	2.43e+07	1.05	y	40:06	1.15	3200		-	-	*	
PCB-179	2.80e+05	1.00	y	40:50	1.09	39.1		-	-	*	
PCB-176	9.11e+04	1.18	y	41:15	1.05	13.2	J	-	-	*	
PCB-186	*	*	n	NotFnd	1.08	*		888	456	1.81	
PCB-178	8.72e+04	1.06	y	42:17	0.70	18.8	J	-	-	*	
PCB-175	*	*	n	NotFnd	0.76	*		888	456	2.57	
PCB-187	4.81e+05	0.99	y	42:47	0.84	86.6		-	-	*	Co-elute PCB 182
PCB-182	4.81e+05	0.99	y	42:47	0.84	86.6		-	-	*	Co-elute PCB 187
PCB-183	2.29e+05	1.19	y	43:05	0.81	42.9		-	-	*	
PCB-185	3.68e+04	1.02	y	43:43	0.74	7.55	J	-	-	*	
PCB-174	2.93e+05	1.10	y	44:04	0.74	60.5		-	-	*	
PCB-181	2.67e+04	1.10	y	44:11	0.80	5.09	J	-	-	*	
PCB-177	1.71e+05	1.10	y	44:19	0.70	37.3		-	-	*	
PCB-171	8.58e+04	1.12	y	44:37	0.76	17.2	J	-	-	*	
PCB-173	*	*	n	NotFnd	0.66	*		888	456	2.95	
PCB-172	4.07e+05	0.96	y	45:22	0.67	92.4		-	-	*	
PCB-192	1.50e+07	1.05	y	45:35	0.91	2490		-	-	*	
PCB-180	4.95e+05	1.12	y	45:45	0.69	109		-	-	*	
PCB-193	*	*	n	NotFnd	0.98	*		888	456	1.99	
PCB-191	*	*	n	NotFnd	0.96	*		888	456	2.03	
PCB-170	1.83e+05	1.20	y	47:02	0.69	40.5		-	-	*	
PCB-190	7.50e+04	1.06	y	47:12	0.93	12.3	J	-	-	*	
PCB-189	*	*	n	NotFnd	0.98	*		888	456	1.65	
13C-PCB-189	6.34e+07	1.07	y	48:23	1.01	9970					99.7
PCB-202	3.09e+04	0.85	y	44:47	1.00	5.84	J	-	-	*	
PCB-201	*	*	n	NotFnd	1.03	*		332	664	2.09	
PCB-204	3.57e+07	0.91	y	45:22	1.02	6600		-	-	*	
PCB-197	2.09e+05	0.98	y	45:38	1.09	36.3		-	-	*	
PCB-200	*	*	n	NotFnd	1.07	*		332	664	2.02	
PCB-198	*	*	n	NotFnd	0.69	*		332	664	3.12	
PCB-199	8.05e+04	0.87	y	47:40	0.77	19.8	J	-	-	*	
PCB-203	1.01e+05	0.90	y	47:53	0.83	23.0		-	-	*	Co-elute PCB 196
PCB-196	1.01e+05	0.90	y	47:53	0.83	23.0		-	-	*	Co-elute PCB 203
13C-PCB-202	5.28e+07	0.91	y	44:45	0.96	8680					86.8
13C-PCB-178	4.75e+07	1.06	y	42:16	0.77	9750					97.5
13C-PCB-138	6.32e+07	1.29	y	41:30	-	90.4					
PCB-195	3.61e+04	0.87	y	49:00	0.81	6.27	J	-	-	*	
PCB-194	7.72e+04	0.79	y	49:48	0.89	12.1	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.11	*		920	1280	1.92	
13C-PCB-205	7.14e+07	0.89	y	50:03	1.26	9500					95.0
PCB-208	*	*	n	NotFnd	1.01	*		1230	1110	2.48	
13C-PCB-208	6.70e+07	0.82	y	49:06	1.35	8290					82.9
PCB-207	1.83e+05	1.31	y	49:25	1.13	28.0		-	-	*	
PCB-206	*	*	n	NotFnd	1.04	*		1230	1110	3.54	
13C-PCB-206	4.88e+07	0.79	y	51:14	0.93	8800					88.0
PCB-209	2.04e+05	1.18	y	52:26	1.10	31.2		-	-	*	
13C-PCB-209	5.99e+07	1.20	y	52:25	1.19	8430					84.3
13C-PCB-194	5.98e+07	0.90	y	49:47	-	101					

Analyst: _____ Date: 8/7/19

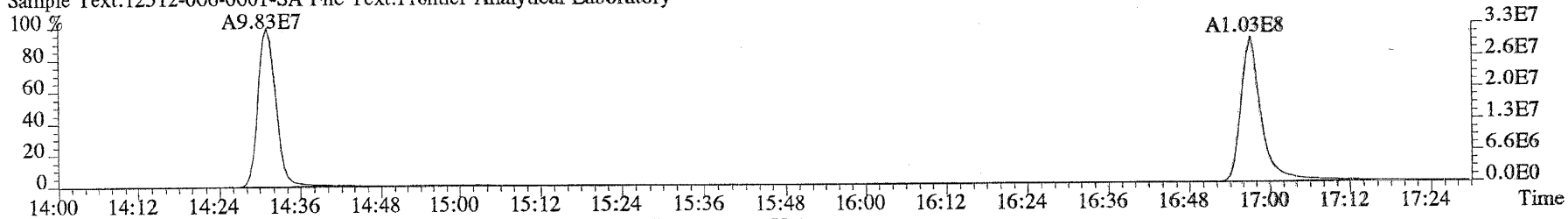
File:06AUG19Z #1-784 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



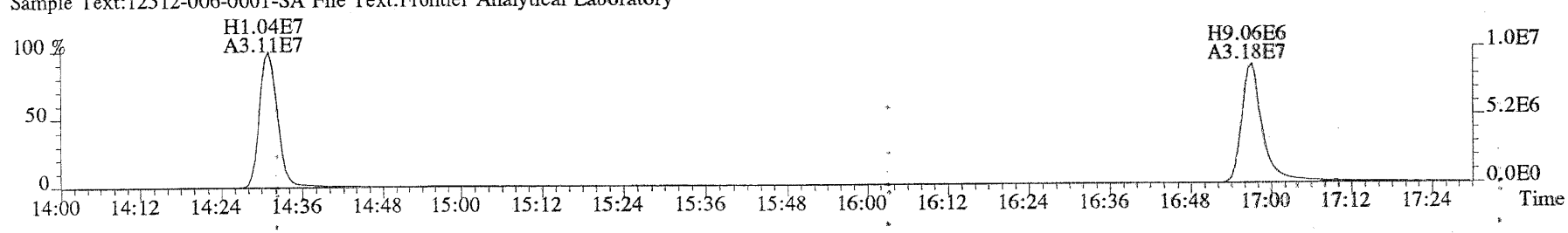
File:06AUG19Z #1-784 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



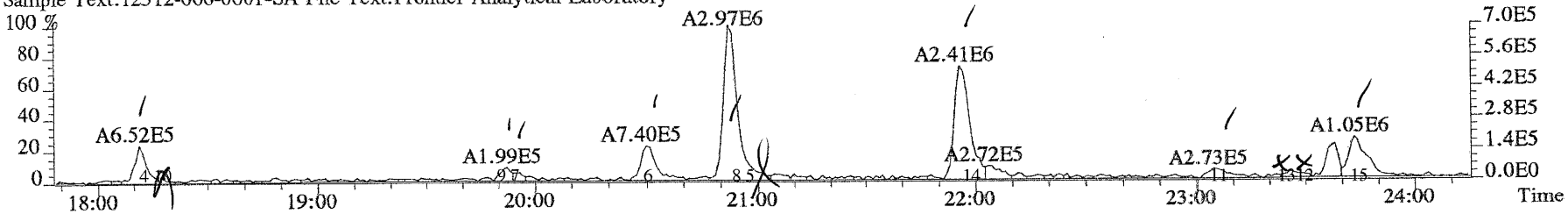
File:06AUG19Z #1-784 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



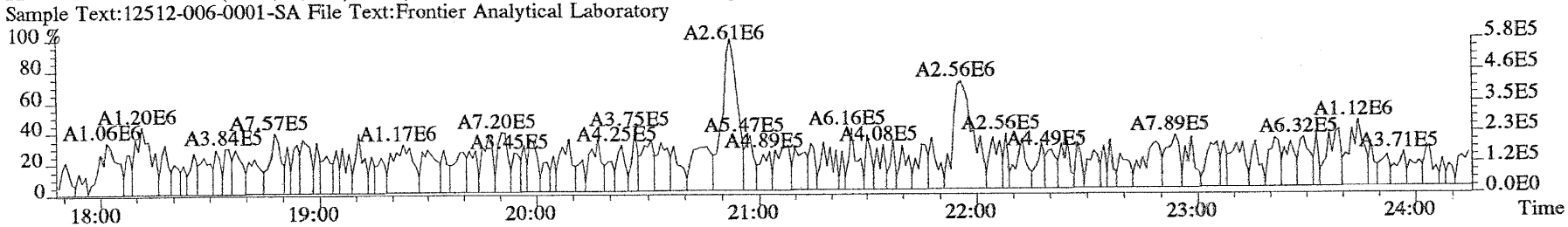
File:06AUG19Z #1-784 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



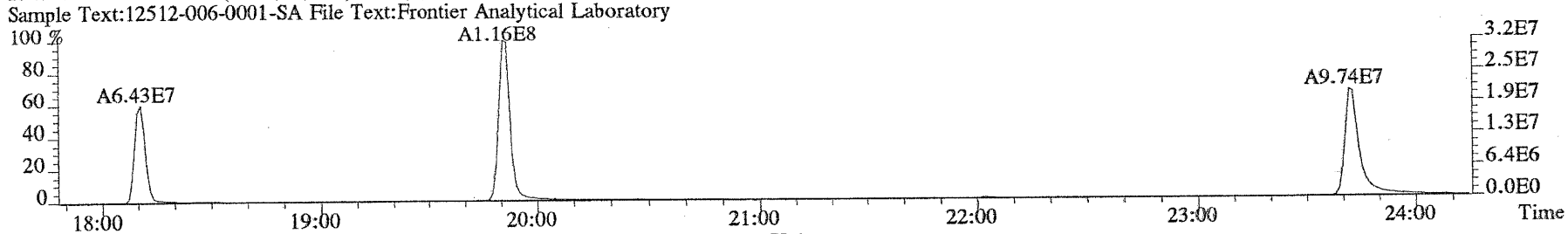
File:06AUG19Z #1-520 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



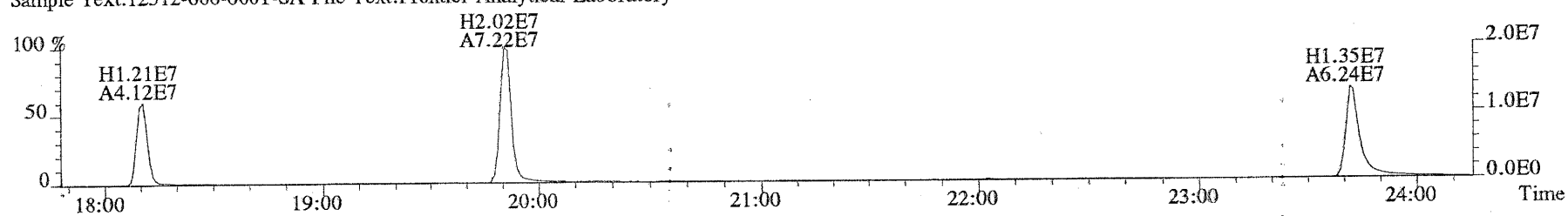
File:06AUG19Z #1-520 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



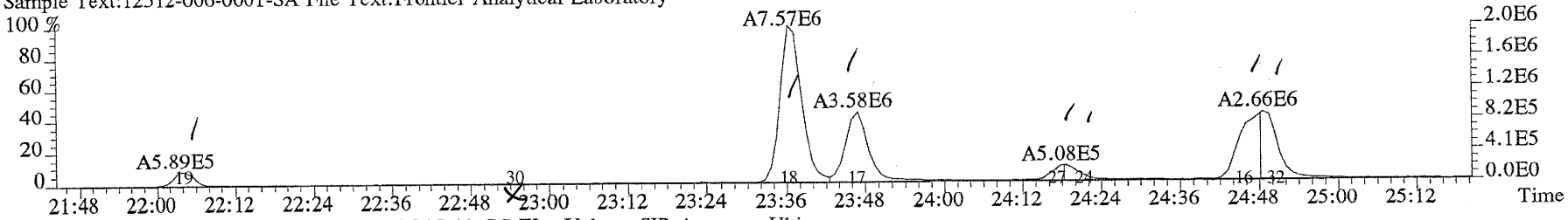
File:06AUG19Z #1-520 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



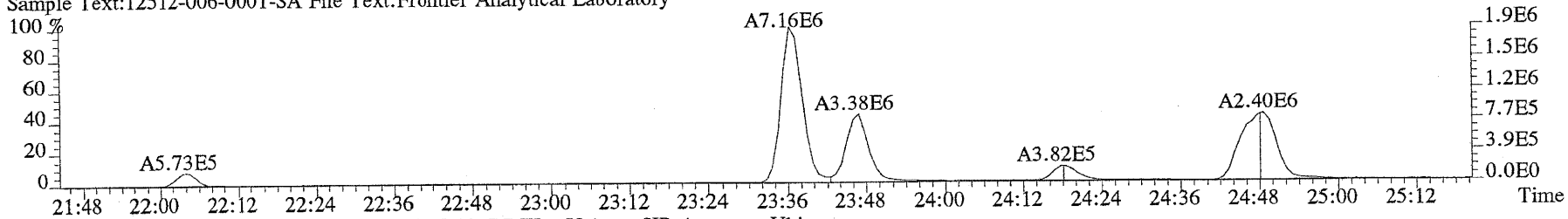
File:06AUG19Z #1-520 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



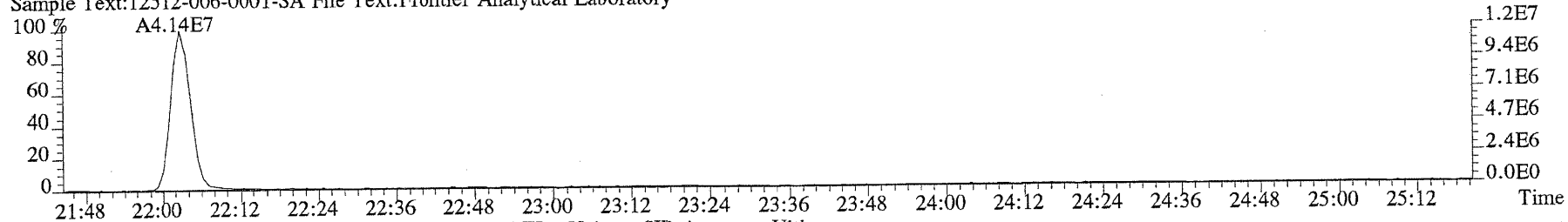
File:06AUG19Z #1-520 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



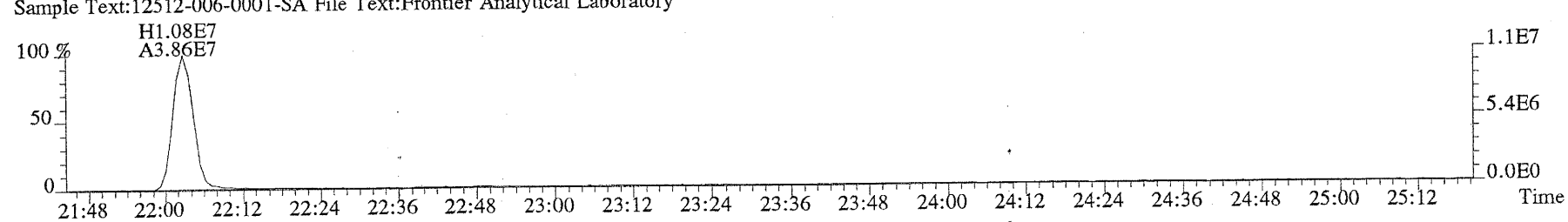
File:06AUG19Z #1-520 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



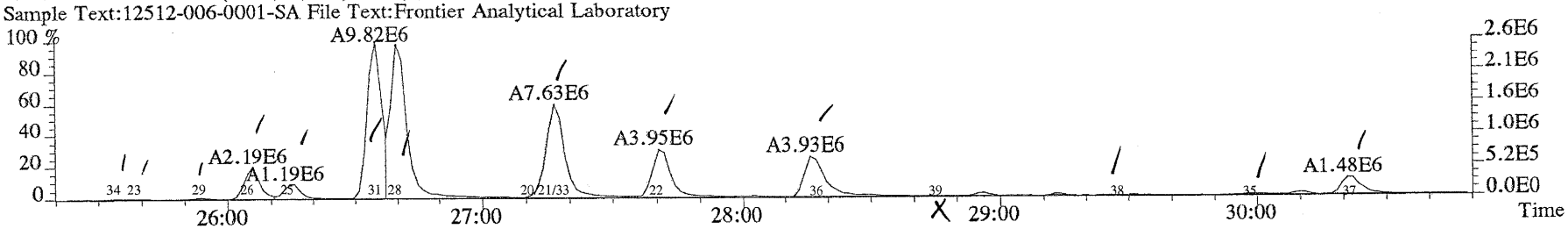
File:06AUG19Z #1-520 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



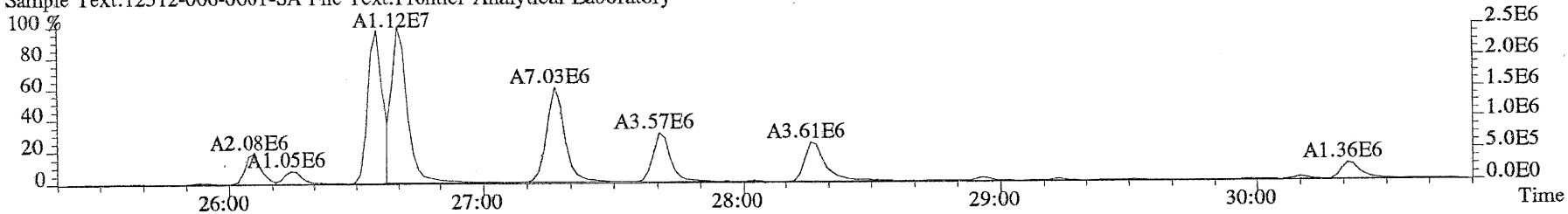
File:06AUG19Z #1-520 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



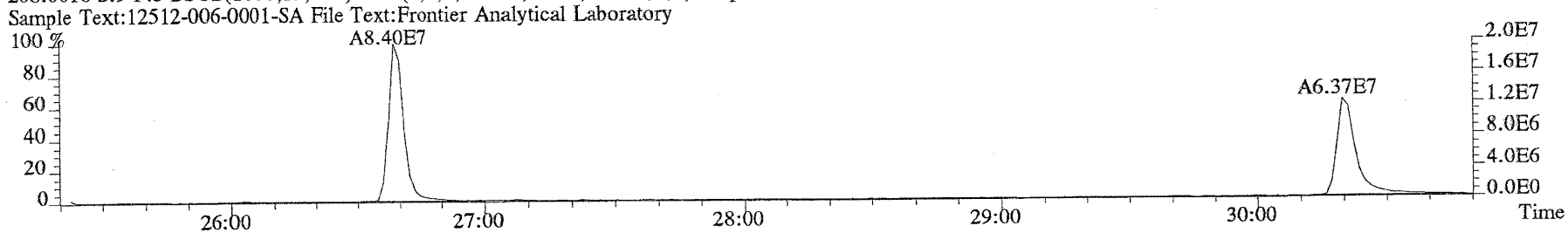
File:06AUG19Z #1-401 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



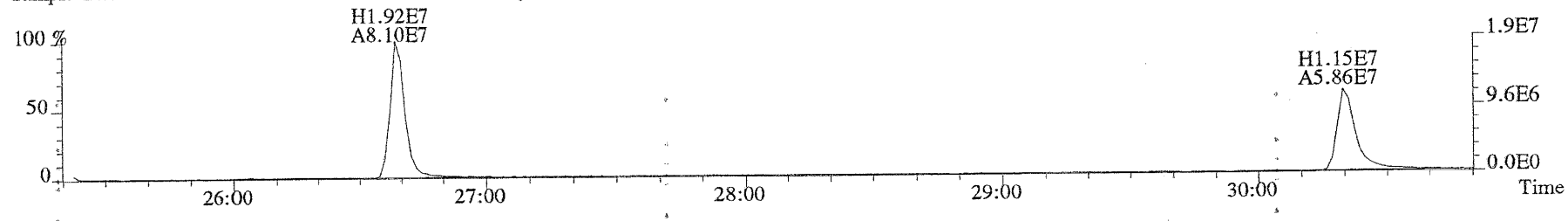
File:06AUG19Z #1-401 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



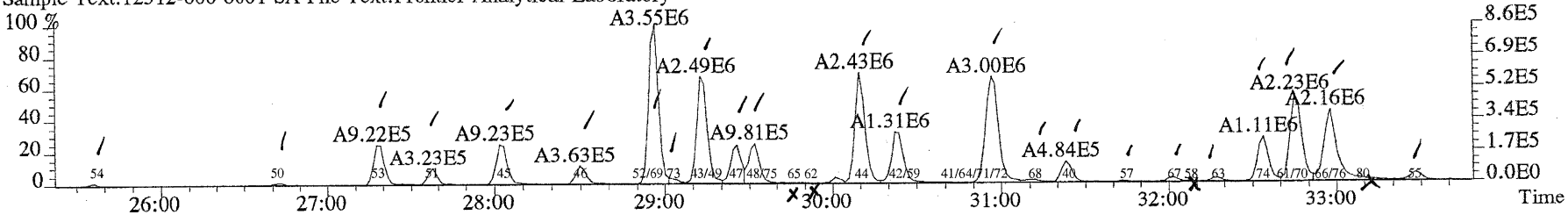
File:06AUG19Z #1-401 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



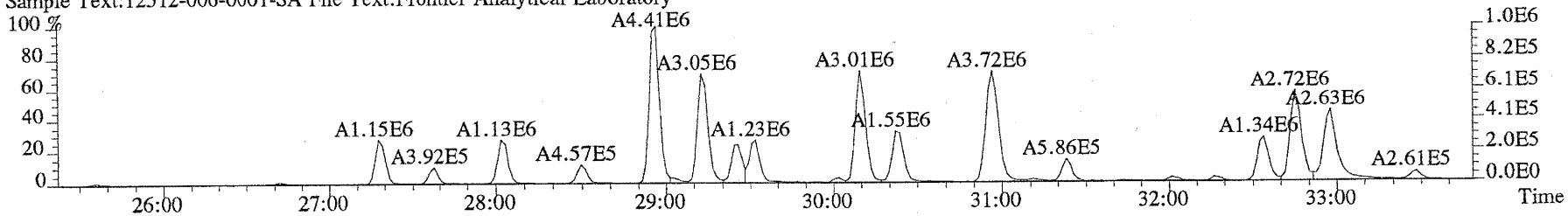
File:06AUG19Z #1-401 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



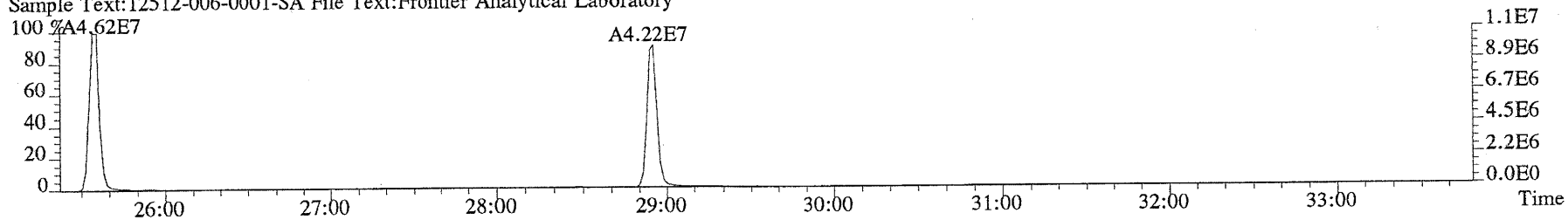
File:06AUG19Z #1-401 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



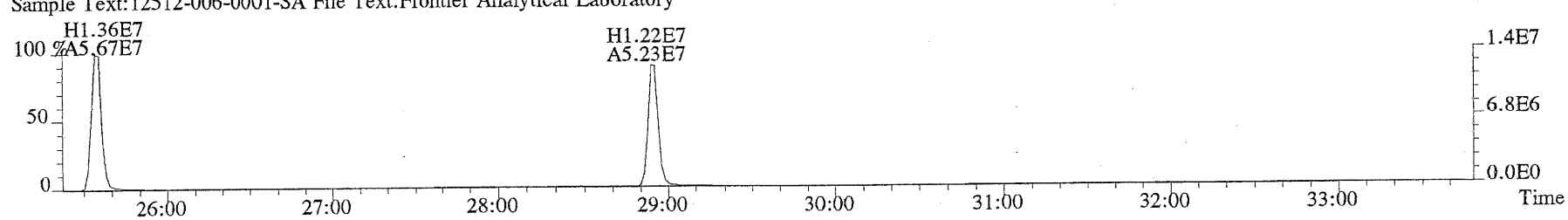
File:06AUG19Z #1-401 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



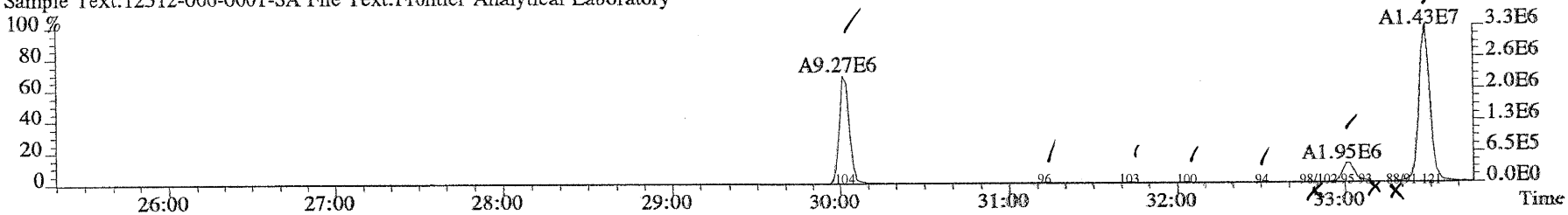
File:06AUG19Z #1-401 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



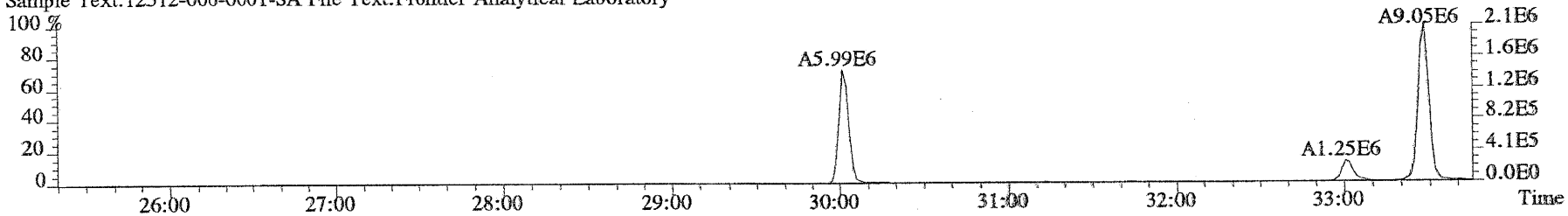
File:06AUG19Z #1-401 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



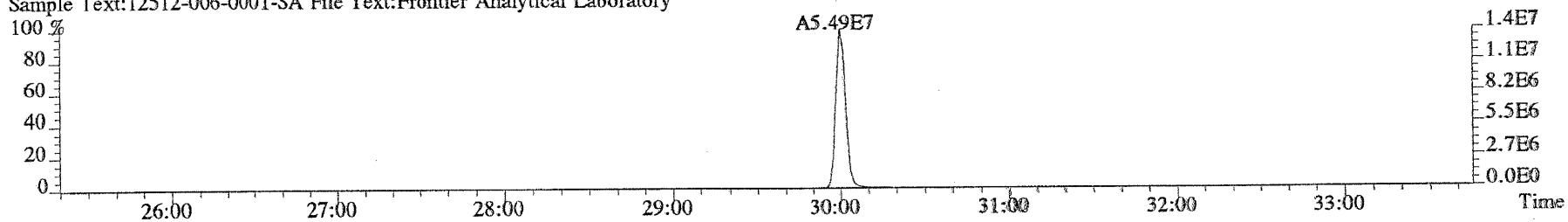
File:06AUG19Z #1-401 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



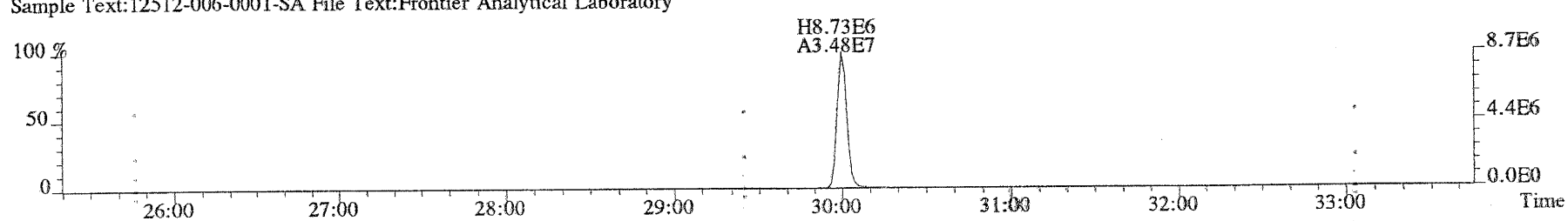
File:06AUG19Z #1-401 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



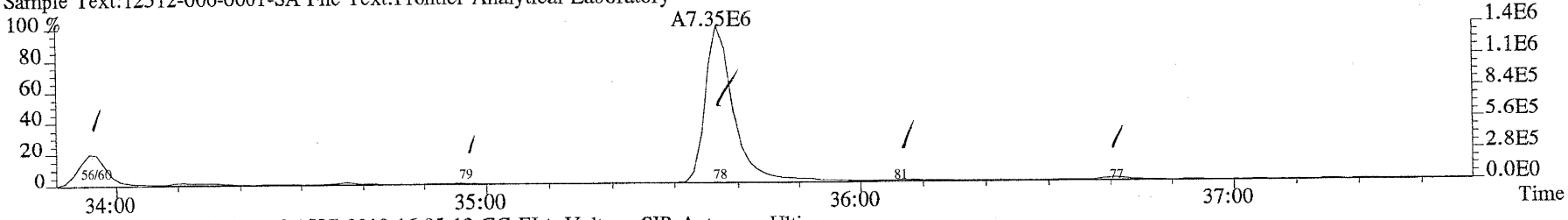
File:06AUG19Z #1-401 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-401 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-181 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



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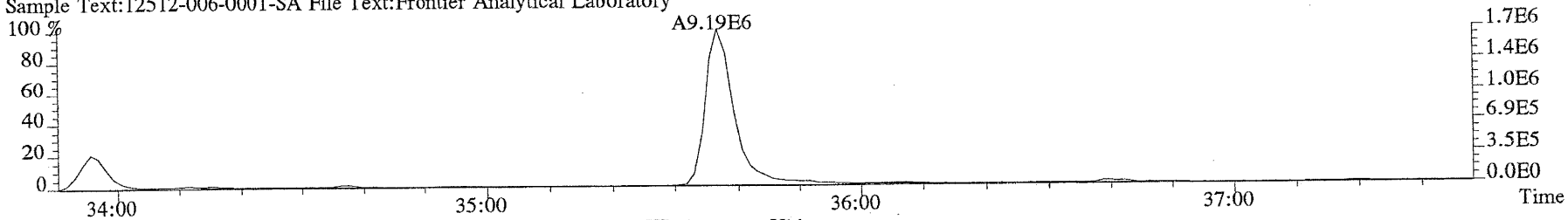
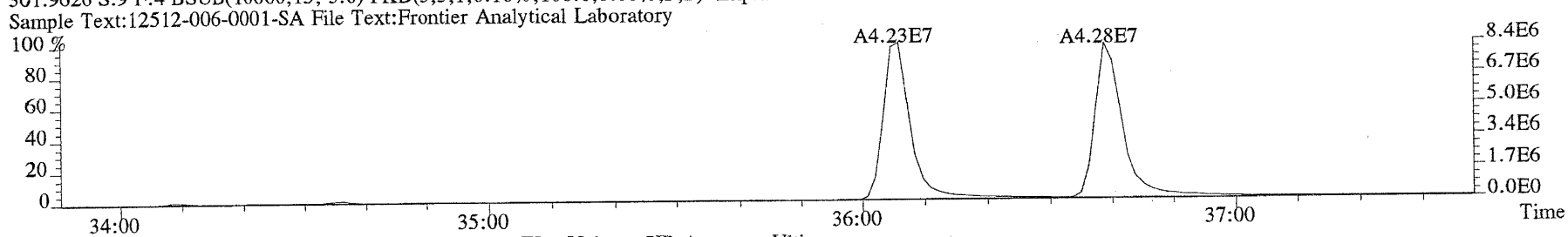
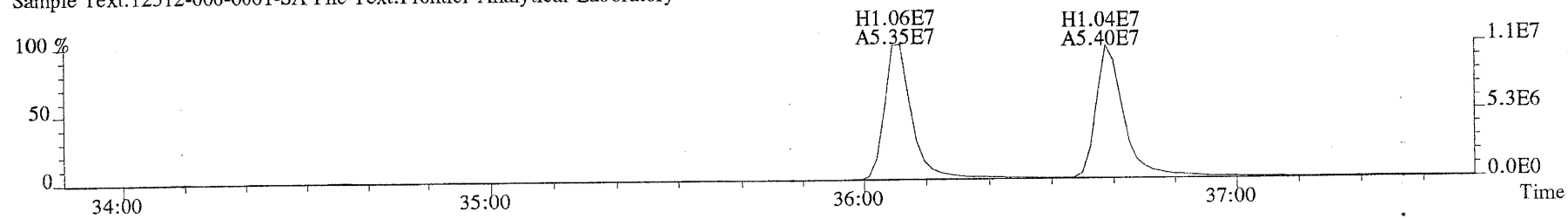
291.9194 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



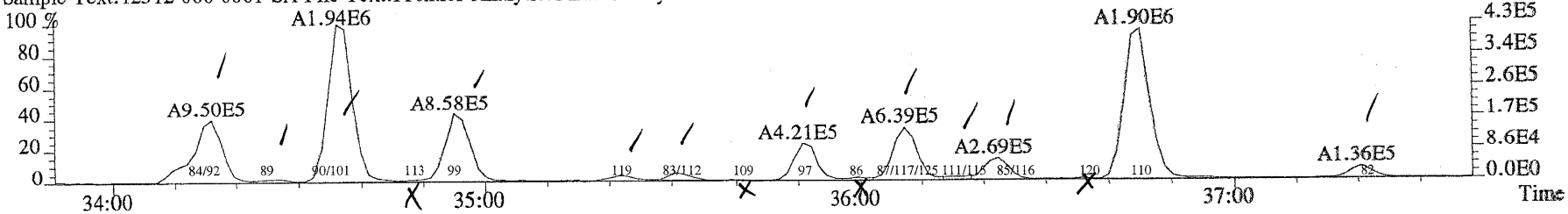
File:06AUG19Z #1-181 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



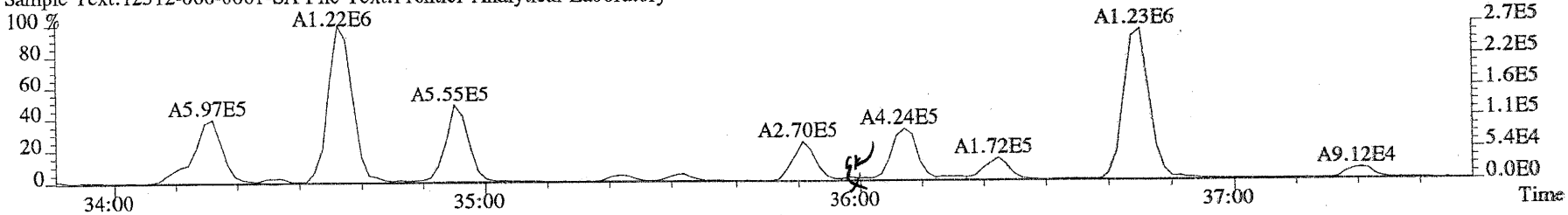
File:06AUG19Z #1-181 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



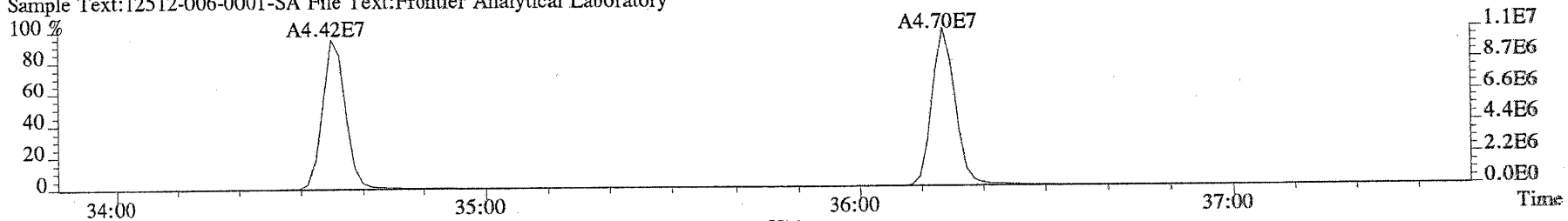
File:06AUG19Z #1-181 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



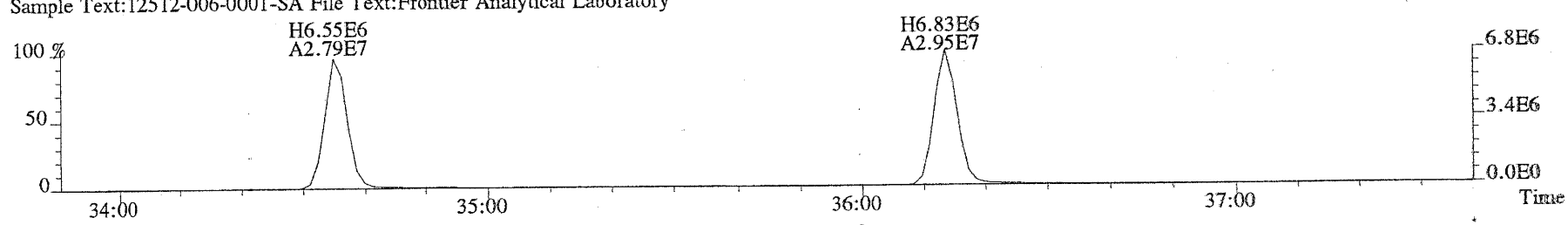
File:06AUG19Z #1-181 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



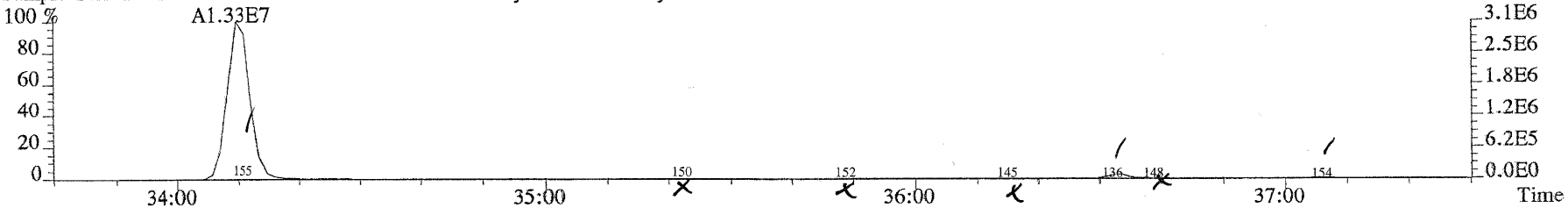
File:06AUG19Z #1-181 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



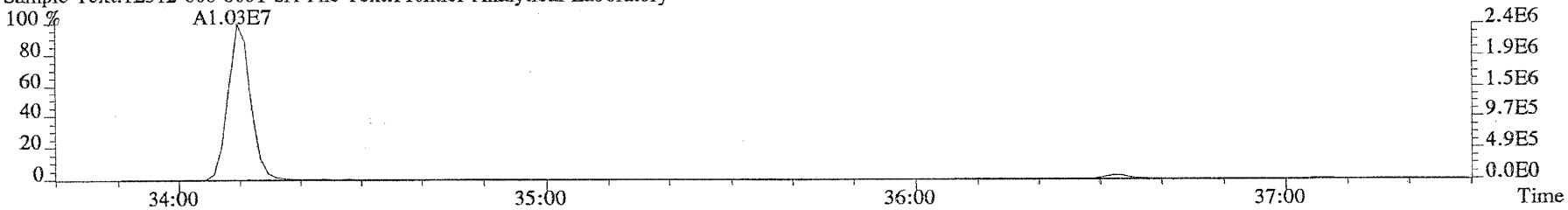
File:06AUG19Z #1-181 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



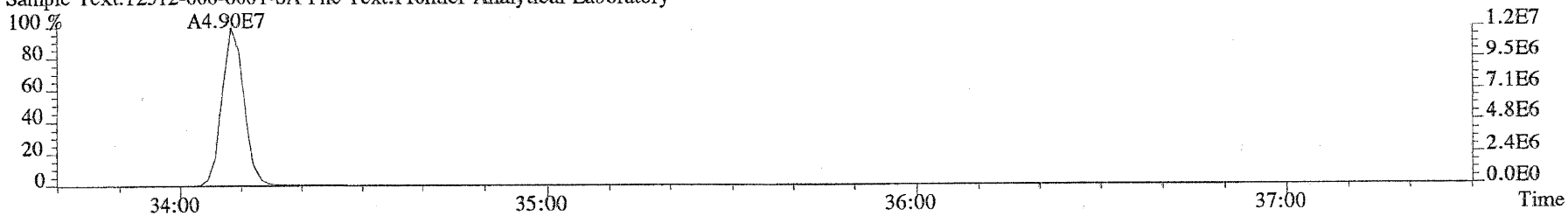
File:06AUG19Z #1-181 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



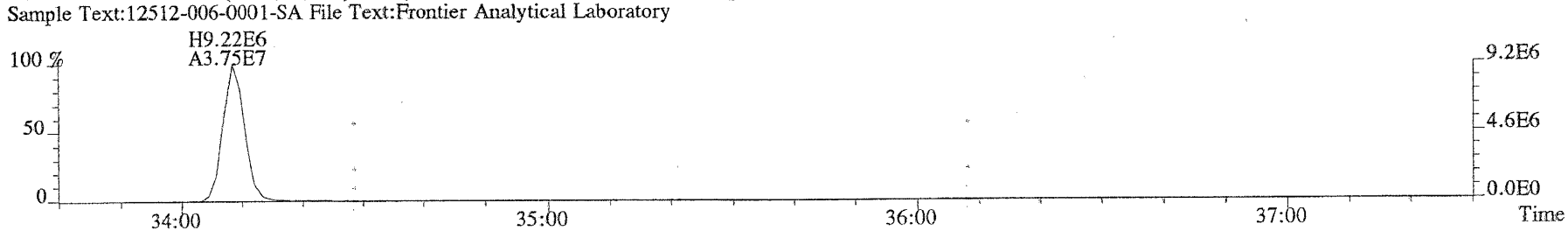
File:06AUG19Z #1-181 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



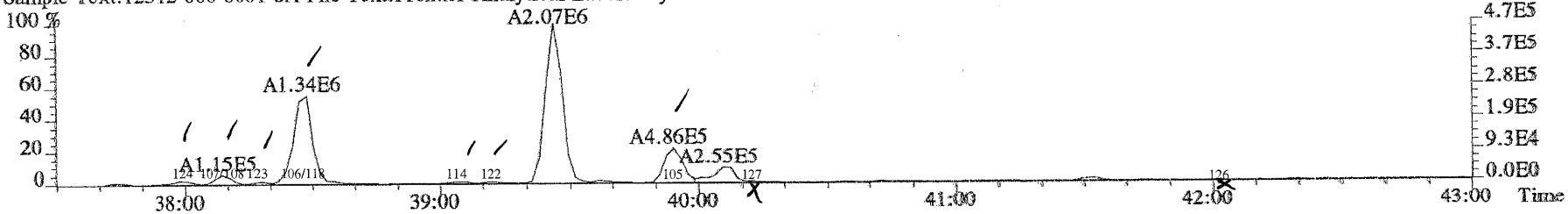
File:06AUG19Z #1-181 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



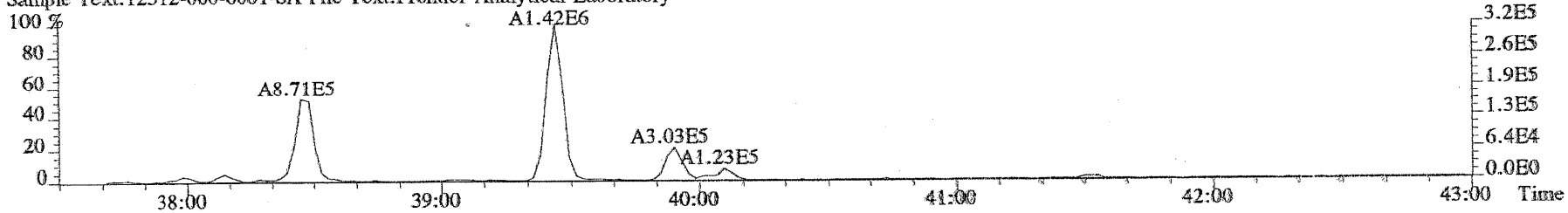
File:06AUG19Z #1-181 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



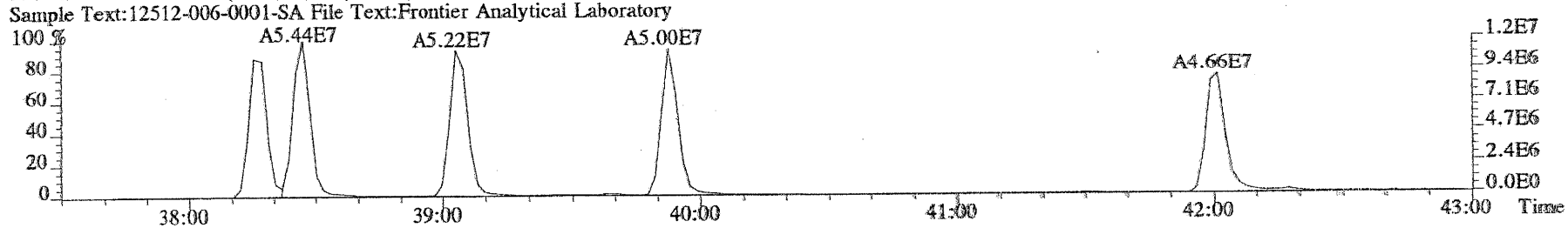
File:06AUG19Z #1-405 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



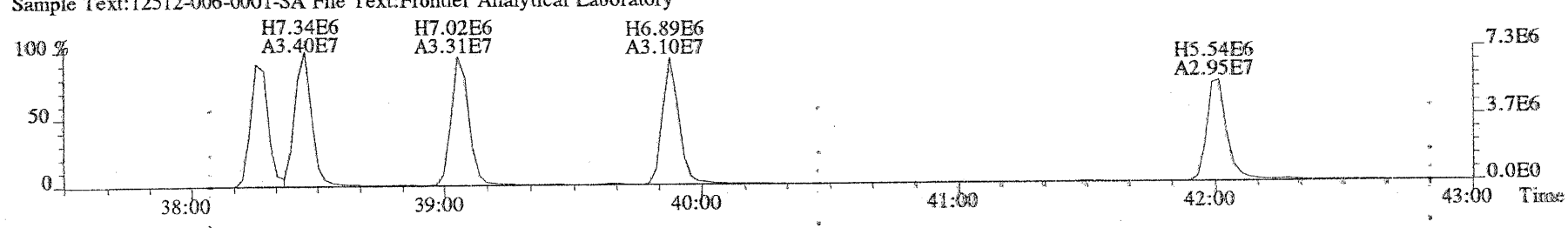
File:06AUG19Z #1-405 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



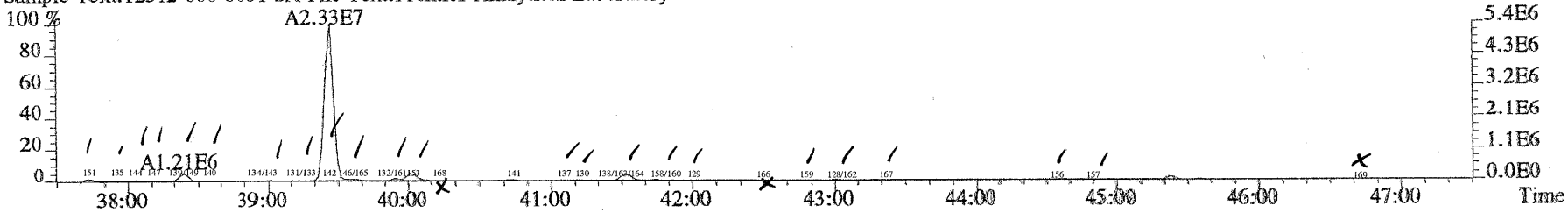
File:06AUG19Z #1-405 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



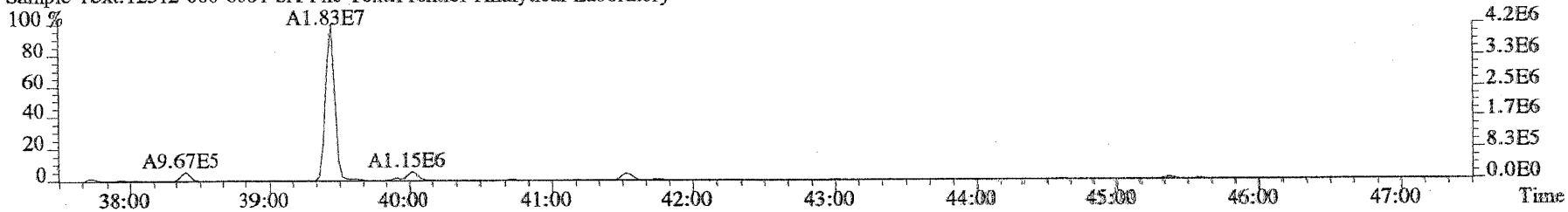
File:06AUG19Z #1-405 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



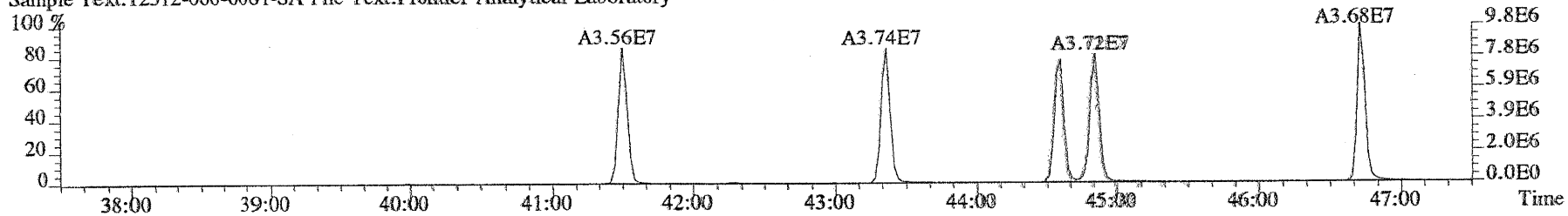
File:06AUG19Z #1-405 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



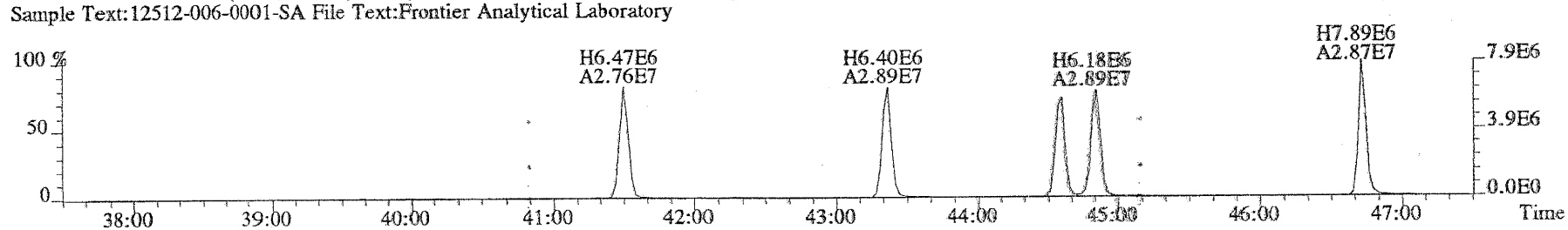
File:06AUG19Z #1-405 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



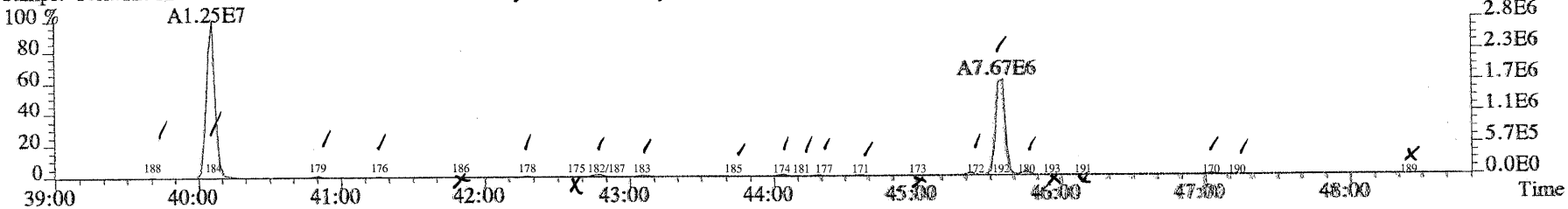
File:06AUG19Z #1-405 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



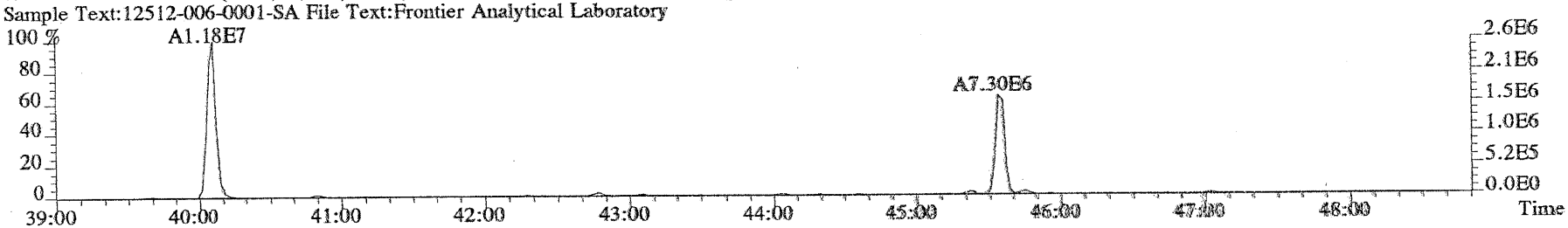
File:06AUG19Z #1-405 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



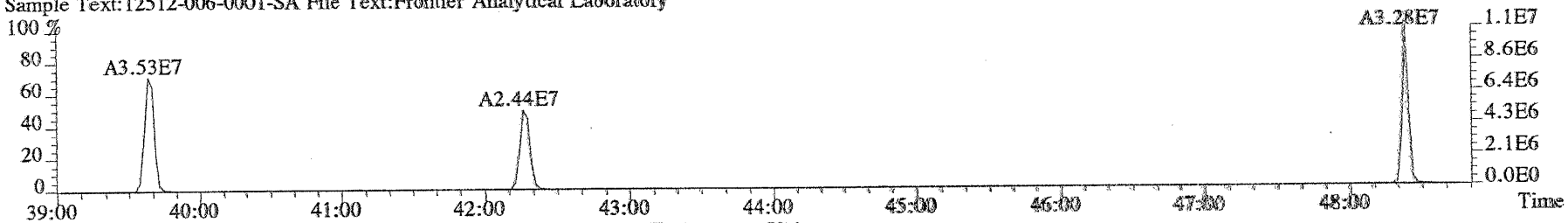
File:06AUG19Z #1-405 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



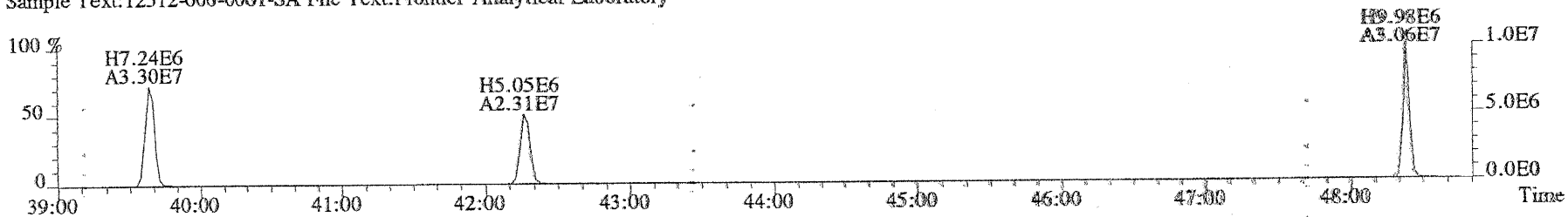
File:06AUG19Z #1-405 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



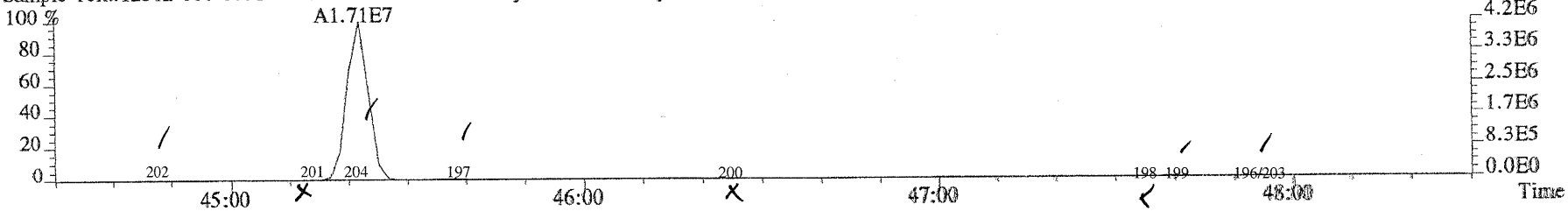
File:06AUG19Z #1-405 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



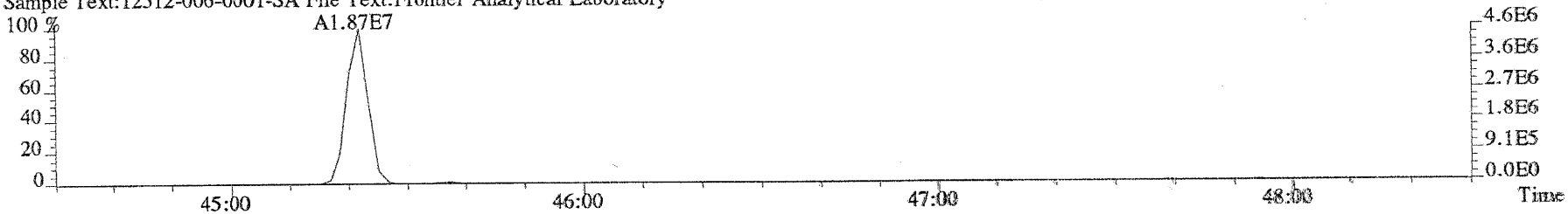
File:06AUG19Z #1-405 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



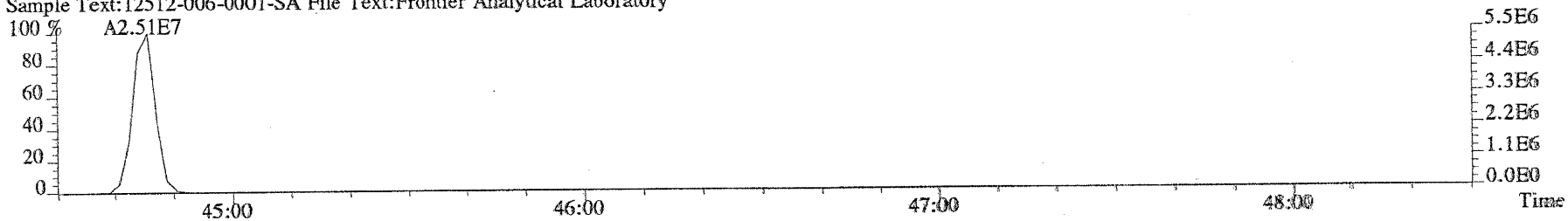
File:06AUG19Z #1-405 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



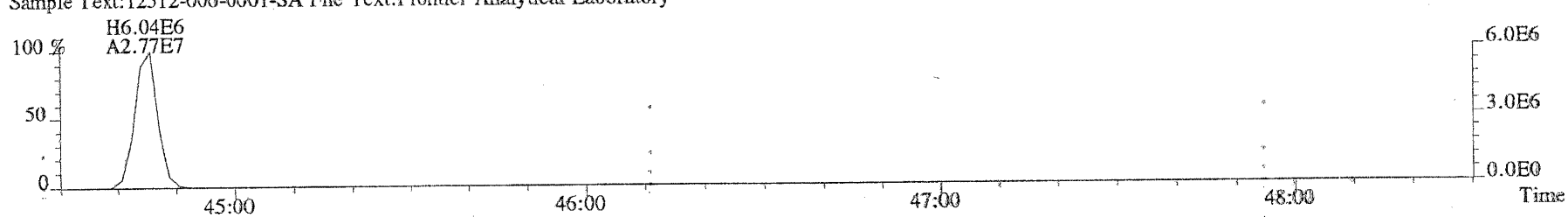
File:06AUG19Z #1-405 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



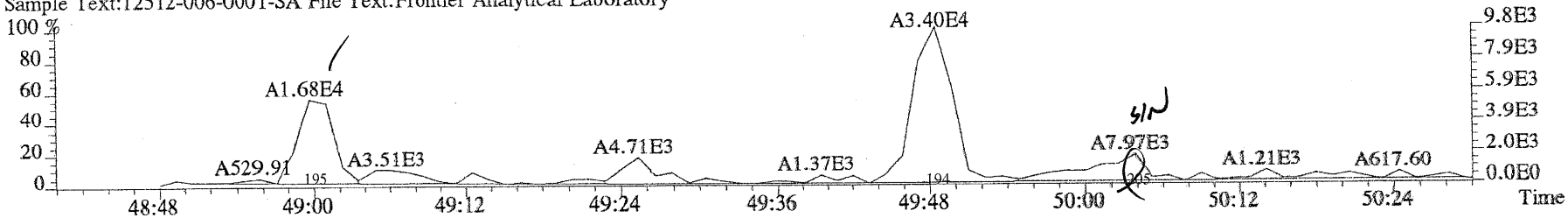
File:06AUG19Z #1-405 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



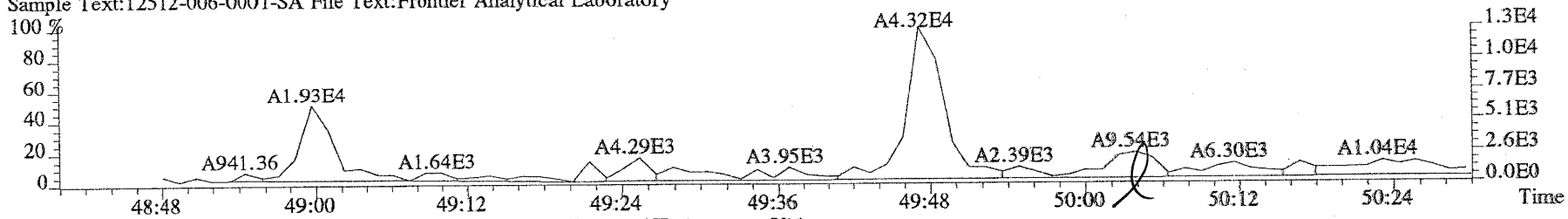
File:06AUG19Z #1-405 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



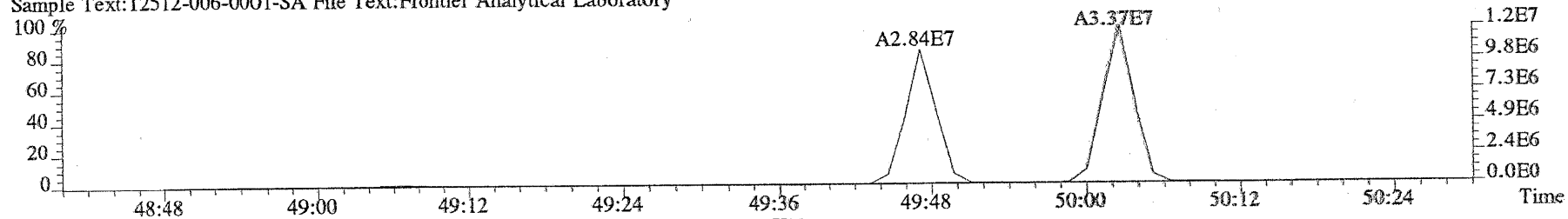
File:06AUG19Z #1-315 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



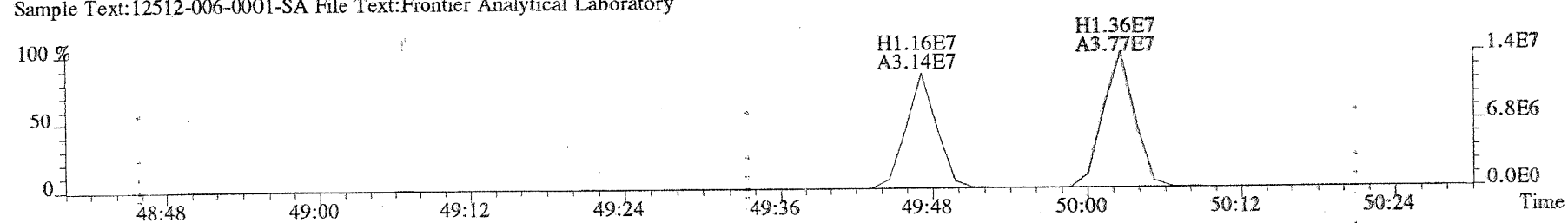
File:06AUG19Z #1-315 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



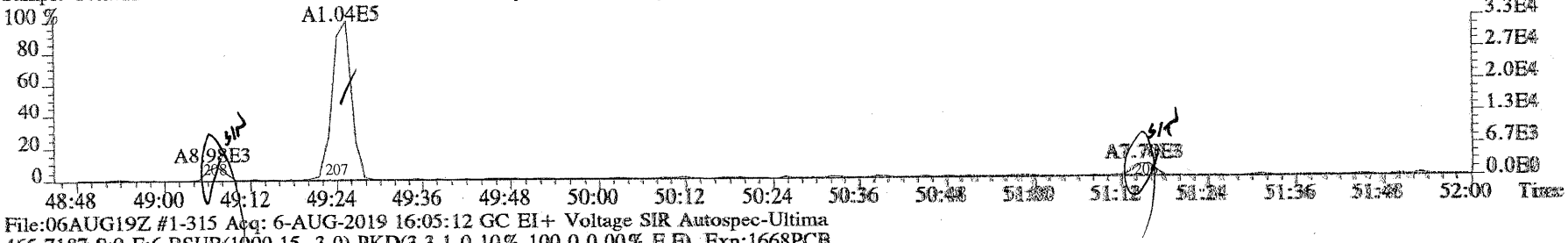
File:06AUG19Z #1-315 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



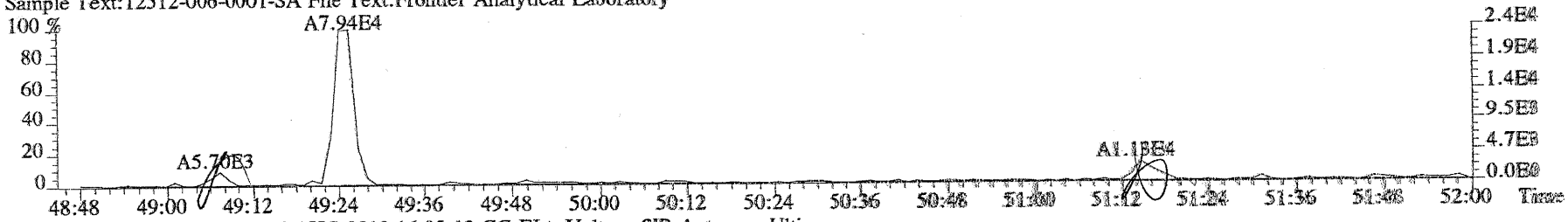
File:06AUG19Z #1-315 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



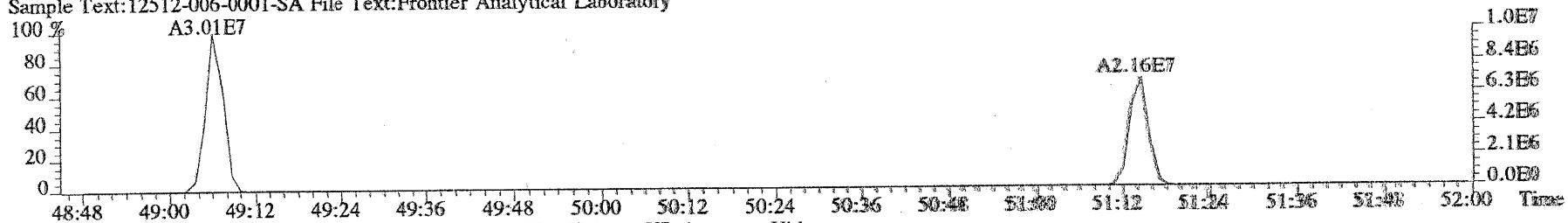
File:06AUG19Z #1-315 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



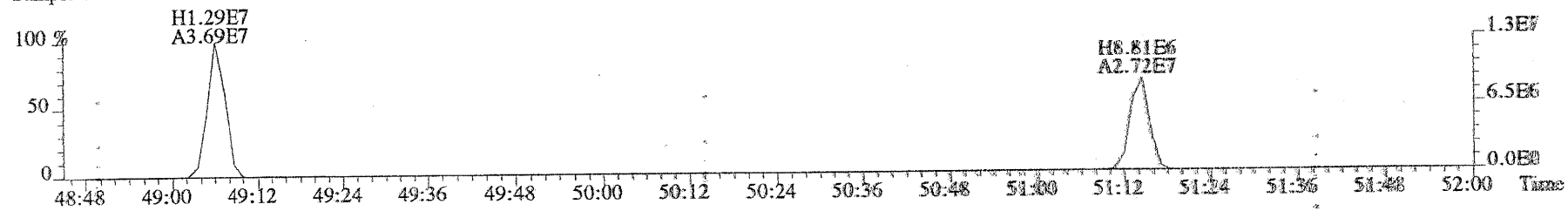
File:06AUG19Z #1-315 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



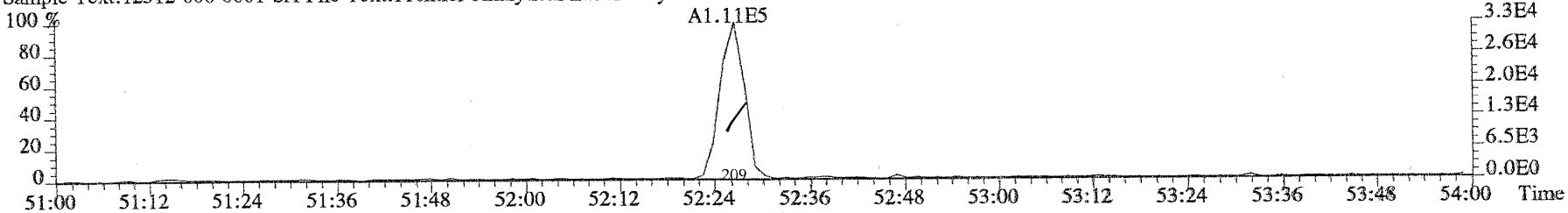
File:06AUG19Z #1-315 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



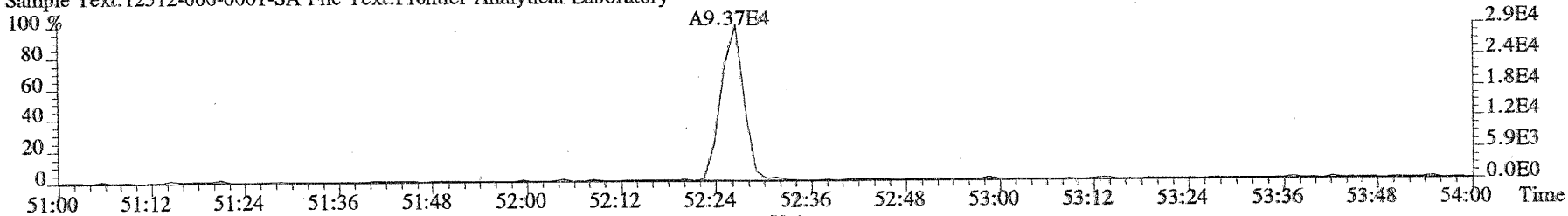
File:06AUG19Z #1-315 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



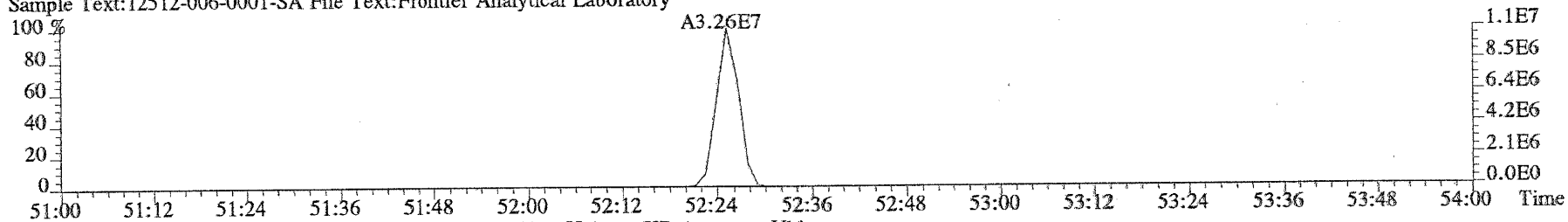
File:06AUG19Z #1-315 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



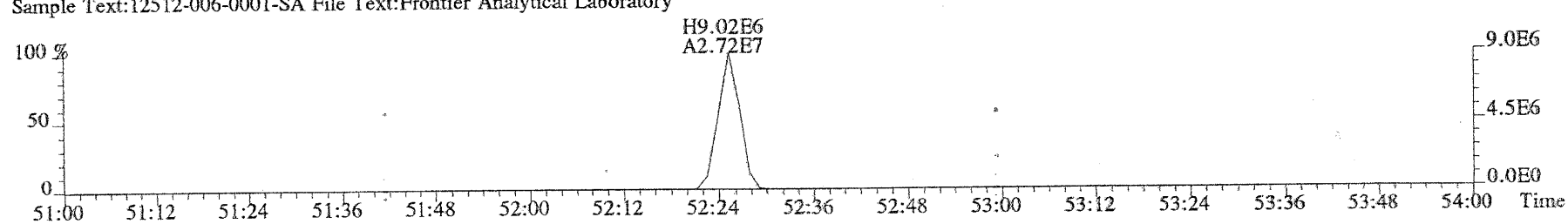
File:06AUG19Z #1-315 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-315 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-315 Acq: 6-AUG-2019 16:05:12 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-006-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12512-007-0001-SA Filename: 06AUG19Z Sam:10 Acquired: 6-AUG-19 17:03:36 ICal: DAILY209FAL4-8-6-19
Client ID: LDW-Y2-SC-ENR+AC-CC-S010 ConCal: ST080619Z1 EndCal: ST080619Z2
Results: Y GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	
PCB-1	*	*	n	NotFnd	1.16	*		2560	1750	2.11		
13C-PCB-1	1.32e+08	3.19	y	14:31	0.90	8050					80.5	
PCB-2	*	*	n	NotFnd	1.18	*		2560	1750	2.24		
PCB-3	*	*	n	NotFnd	1.17	*		2560	1750	2.40		
13C-PCB-3	1.32e+08	3.21	y	16:57	0.89	8150					81.5	
PCB-4	1.09e+06	1.55	y	18:11	1.21	87.9		-	-	*		
PCB-10	*	*	n	NotFnd	1.31	*		987	14000	8.66		
13C-PCB-4	1.03e+08	1.59	y	18:10	0.67	8440					84.4	
PCB-9	*	*	n	NotFnd	1.45	*		987	14000	7.86		
PCB-7	*	*	n	NotFnd	1.45	*		987	14000	7.83		
PCB-6	1.33e+06	1.42	y	20:31	1.48	68.9		-	-	*		
PCB-8	5.67e+06	1.42	y	20:53	1.40	311		-	-	*		
PCB-5	*	*	n	NotFnd	1.40	*		987	14000	8.13		
PCB-14	3.64e+06	1.54	y	21:56	1.29	216		-	-	*		
PCB-11	*	*	n	NotFnd	1.18	*		987	14000	9.63		
PCB-13	*	*	n	NotFnd	1.17	*		987	14000	9.69		
PCB-12	*	*	n	NotFnd	1.24	*		987	14000	9.19		
PCB-15	1.05e+06	1.34	y	23:43	1.10	59.9		-	-	*		
13C-PCB-15	1.59e+08	1.57	y	23:42	0.89	9830					98.3	
PCB-19	1.05e+06	1.13	y	22:04	1.18	110		-	-	*		
PCB-30	*	*	n	NotFnd	1.71	*		2970	740	2.35		
PCB-18	8.71e+06	1.06	y	23:37	1.12	967		-	-	*		
PCB-17	4.03e+06	1.07	y	23:46	1.24	404		-	-	*		
PCB-27	6.40e+05	0.97	y	24:18	1.63	48.6		-	-	*		
PCB-24	5.81e+05	1.15	y	24:19	1.56	46.3		-	-	*		
PCB-16	3.00e+06	1.01	y	24:47	1.31	283		-	-	*		
PCB-32	3.76e+06	1.10	y	24:48	1.43	328		-	-	*		
13C-PCB-19	8.05e+07	1.07	y	22:02	0.50	8810					88.1	
13C-PCB-9	1.82e+08	1.61	y	19:51	-	83.0						
PCB-34	*	*	n	NotFnd	1.29	*		2640	2870	4.53		
PCB-23	*	*	n	NotFnd	1.31	*		2640	2870	4.48		
PCB-29	1.29e+05	1.11	y	25:54	1.26	8.17	J	-	-	*		
PCB-26	2.49e+06	1.07	y	26:05	1.29	153		-	-	*		
PCB-25	1.44e+06	1.03	y	26:15	1.28	90.0		-	-	*		
PCB-31	1.06e+07	1.02	y	26:34	1.28	661		-	-	*		
PCB-28	1.47e+07	1.05	y	26:41	1.52	775		-	-	*		
PCB-20	8.23e+06	1.03	y	27:16	1.26	521		-	-	*		Co-elute PCB 21/33
PCB-21	8.23e+06	1.03	y	27:16	1.26	521		-	-	*		Co-elute PCB 20/33
PCB-33	8.23e+06	1.03	y	27:16	1.26	521		-	-	*		Co-elute PCB 20/21
PCB-22	4.47e+06	1.04	y	27:41	1.33	268		-	-	*		
PCB-36	5.55e+06	0.98	y	28:17	1.21	365		-	-	*		
PCB-39	*	*	n	NotFnd	1.20	*		2640	2870	4.88		
PCB-38	*	*	n	NotFnd	1.20	*		2640	2870	4.88		
PCB-35	1.75e+05	1.08	y	30:02	1.10	12.7	J	-	-	*		
PCB-37	1.93e+06	1.03	y	30:22	1.15	134		-	-	*		
13C-PCB-37	1.25e+08	1.07	y	30:21	1.41	9580					95.8	

PCB-54	5.90e+04	0.72	y	25:36	1.15	4.94	J	-	-	*	
PCB-50	6.05e+04	0.81	y	26:42	0.93	6.30	J	-	-	*	
PCB-53	1.44e+06	0.82	y	27:19	0.91	153		-	-	*	
PCB-51	4.85e+05	0.87	y	27:38	0.91	51.2		-	-	*	
PCB-45	1.40e+06	0.84	y	28:03	0.77	175		-	-	*	
PCB-46	5.52e+05	0.76	y	28:29	0.73	73.0		-	-	*	
PCB-52	6.43e+06	0.81	y	28:56	0.87	711		-	-	*	Co-elute PCB 69
PCB-69	6.43e+06	0.81	y	28:56	0.87	711		-	-	*	Co-elute PCB 52
PCB-73	1.99e+05	0.85	y	29:04	1.14	16.8	J	-	-	*	
PCB-43	4.61e+06	0.80	y	29:14	0.78	568		-	-	*	Co-elute PCB 49
PCB-49	4.61e+06	0.80	y	29:14	0.78	568		-	-	*	Co-elute PCB 43
PCB-47	1.71e+06	0.86	y	29:25	0.81	203		-	-	*	
PCB-48	1.55e+06	0.84	y	29:31	0.99	151		-	-	*	Co-elute PCB 75
PCB-75	1.55e+06	0.84	y	29:31	0.99	151		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*		987	1230	2.17	
PCB-62	*	*	n	NotFnd	1.08	*		987	1230	1.98	
PCB-44	4.10e+06	0.83	y	30:09	0.68	583		-	-	*	
PCB-42	2.32e+06	0.83	y	30:23	0.87	257		-	-	*	Co-elute PCB 59
PCB-59	2.32e+06	0.83	y	30:23	0.87	257		-	-	*	Co-elute PCB 42
PCB-72	5.19e+06	0.82	y	30:56	0.96	522		-	-	*	Co-elute PCB 41/71/64
PCB-41	5.19e+06	0.82	y	30:56	0.96	522		-	-	*	Co-elute PCB 72/71/64
PCB-71	5.19e+06	0.82	y	30:56	0.96	522		-	-	*	Co-elute PCB 72/41/64
PCB-64	5.19e+06	0.82	y	30:56	0.96	522		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.21e+05	0.78	y	31:11	1.09	10.6	J	-	-	*	
PCB-40	8.12e+05	0.81	y	31:23	0.61	129		-	-	*	
PCB-57	4.51e+04	0.85	y	31:44	0.96	4.55	J	-	-	*	
PCB-67	2.17e+05	0.76	y	32:02	0.98	21.2		-	-	*	
PCB-58	*	*	n	NotFnd	0.98	*		987	1230	2.18	
PCB-63	2.05e+05	0.85	y	32:17	0.96	20.5		-	-	*	
PCB-74	2.20e+06	0.79	y	32:33	0.96	220		-	-	*	
PCB-61	4.55e+06	0.81	y	32:45	0.92	475		-	-	*	Co-elute PCB 70
PCB-70	4.55e+06	0.81	y	32:45	0.92	475		-	-	*	Co-elute PCB 61
PCB-76	4.40e+06	0.81	y	32:57	1.00	423		-	-	*	Co-elute PCB 66
PCB-66	4.40e+06	0.81	y	32:57	1.00	423		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.16	*		987	1230	1.85	
PCB-55	3.99e+05	0.83	y	33:29	1.01	38.2		-	-	*	
13C-PCB-54	1.04e+08	0.80	y	25:35	1.31	8560					85.6
PCB-104	1.16e+07	1.57	y	30:02	1.09	1210		-	-	*	
PCB-96	7.46e+04	1.47	y	31:14	1.01	8.42	J	-	-	*	
PCB-103	8.18e+04	1.56	y	31:43	0.80	11.7	J	-	-	*	
PCB-100	7.21e+04	1.43	y	32:03	0.79	10.3	J	-	-	*	
PCB-94	2.39e+04	1.37	y	32:31	0.65	4.20	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.70	*		432	536	1.66	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.70	*		432	536	1.66	Co-elute PCB 98
PCB-95	3.22e+06	1.62	y	33:01	0.68	539		-	-	*	
PCB-93	*	*	n	NotFnd	0.65	*		432	536	1.79	
PCB-88	*	*	n	NotFnd	0.73	*		432	536	1.59	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.73	*		432	536	1.59	Co-elute PCB 88
PCB-121	1.81e+07	1.59	y	33:28	0.89	2310		-	-	*	
13C-PCB-104	8.77e+07	1.58	y	29:59	1.05	9030					90.3
13C-PCB-28	1.58e+08	1.05	y	26:39	1.82	9420					94.2
13C-PCB-52	9.26e+07	0.81	y	28:55	-	98.0					

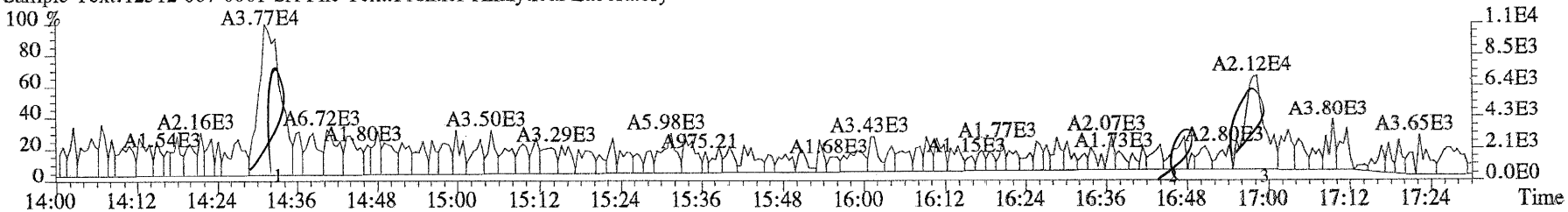
PCB-56	2.93e+06	0.77	y	33:57	1.12	290		-	-	*	Co-elute PCB 60
PCB-60	2.93e+06	0.77	y	33:57	1.12	290		-	-	*	Co-elute PCB 56
PCB-79	8.17e+04	0.79	y	34:56	1.14	7.95	J	-	-	*	
PCB-78	1.24e+07	0.78	y	35:38	1.11	1240		-	-	*	
PCB-81	2.31e+05	0.79	y	36:08	1.21	21.1		-	-	*	
13C-PCB-81	9.04e+07	0.79	y	36:06	1.53	8800					88.0
PCB-77	2.46e+05	0.76	y	36:41	1.04	26.3		-	-	*	
13C-PCB-77	8.99e+07	0.80	y	36:40	1.58	8440					84.4
PCB-155	1.83e+07	1.26	y	34:10	1.03	1980		-	-	*	
PCB-150	*	*	n	NotFnd	0.99	*		840	584	1.77	
PCB-152	*	*	n	NotFnd	0.97	*		840	584	1.80	
PCB-145	*	*	n	NotFnd	1.01	*		840	584	1.74	
PCB-136	5.95e+05	1.24	y	36:33	0.96	69.3		-	-	*	
PCB-148	*	*	n	NotFnd	0.72	*		840	584	2.44	
PCB-154	1.00e+05	1.35	y	37:06	0.79	14.2	J	-	-	*	
13C-PCB-155	9.00e+07	1.24	y	34:09	1.32	10100					101
13C-PCB-111	7.05e+07	1.60	y	36:13	1.22	8610					86.1
13C-PCB-101	6.72e+07	1.62	y	34:36	-	93.3					
PCB-84	1.50e+06	1.61	y	34:16	0.75	250		-	-	*	Co-elute PCB 92
PCB-92	1.50e+06	1.61	y	34:16	0.75	250		-	-	*	Co-elute PCB 84
PCB-89	6.34e+04	1.35	y	34:24	0.78	10.1	J	-	-	*	
PCB-90	3.22e+06	1.56	y	34:37	0.88	458		-	-	*	Co-elute PCB 101
PCB-101	3.22e+06	1.56	y	34:37	0.88	458		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.94	*		1510	1240	4.17	
PCB-99	1.36e+06	1.61	y	34:56	1.00	170		-	-	*	
PCB-119	1.13e+05	1.54	y	35:23	1.10	12.8	J	-	-	*	
PCB-83	1.58e+05	1.47	y	35:31	0.87	22.7		-	-	*	Co-elute PCB 112
PCB-112	1.58e+05	1.47	y	35:31	0.87	22.7		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.06	*		1510	1240	3.72	
PCB-97	7.06e+05	1.48	y	35:50	0.73	120		-	-	*	
PCB-86	4.20e+04	1.42	y	35:59	0.73	7.14	J	-	-	*	
PCB-125	1.06e+06	1.59	y	36:07	0.97	136		-	-	*	Co-elute PCB 87/117
PCB-87	1.06e+06	1.59	y	36:07	0.97	136		-	-	*	Co-elute PCB 125/117
PCB-117	1.06e+06	1.59	y	36:07	0.97	136		-	-	*	Co-elute PCB 125/87
PCB-111	5.96e+04	1.36	y	36:16	1.17	6.38	J	-	-	*	Co-elute PCB 115
PCB-115	5.96e+04	1.36	y	36:16	1.17	6.38	J	-	-	*	Co-elute PCB 111
PCB-85	4.39e+05	1.49	y	36:22	0.90	60.6		-	-	*	Co-elute PCB 116
PCB-116	4.39e+05	1.49	y	36:22	0.90	60.6		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.13	*		1510	1240	3.48	
PCB-110	3.23e+06	1.55	y	36:45	1.09	369		-	-	*	
PCB-82	2.28e+05	1.54	y	37:20	0.63	45.2		-	-	*	
PCB-124	1.01e+05	1.48	y	38:00	1.06	11.9	J	-	-	*	
PCB-108	1.68e+05	1.42	y	38:08	1.09	19.2	J	-	-	*	Co-elute PCB 107
PCB-107	1.68e+05	1.42	y	38:08	1.09	19.2	J	-	-	*	Co-elute PCB 108
PCB-123	4.73e+04	1.41	y	38:17	1.05	5.70	J	-	-	*	
13C-PCB-123	7.88e+07	1.59	y	38:17	1.27	10500					105
PCB-118	2.05e+06	1.60	y	38:28	1.05	230		-	-	*	Co-elute PCB 106
PCB-106	2.05e+06	1.60	y	38:28	1.05	230		-	-	*	Co-elute PCB 118
13C-PCB-118	8.52e+07	1.61	y	38:27	1.44	9980					99.8
PCB-114	6.56e+04	1.37	y	39:04	1.11	7.40	J	-	-	*	
13C-PCB-114	7.96e+07	1.60	y	39:04	1.35	9930					99.3
PCB-122	*	*	n	NotFnd	1.09	*		912	1360	2.98	
PCB-105	7.52e+05	1.57	y	39:54	1.14	85.7		-	-	*	
13C-PCB-105	7.71e+07	1.59	y	39:52	1.37	9510					95.1

PCB-127	*	*	n	NotFnd	1.04	*		912	1360	3.13	
PCB-126	*	*	n	NotFnd	1.09	*		912	1360	3.59	
13C-PCB-126	7.08e+07	1.58	y	42:01	1.26	9510					95.1
PCB-151	5.98e+05	1.35	y	37:44	0.84	118		-	-	*	
PCB-135	3.16e+05	1.26	y	37:55	0.88	59.1		-	-	*	
PCB-144	1.40e+05	1.32	y	38:02	0.89	26.1		-	-	*	
PCB-147	5.07e+04	1.08	y	38:10	0.97	8.62	J	-	-	*	
PCB-139	2.10e+06	1.38	y	38:23	0.98	355		-	-	*	Co-elute PCB 149
PCB-149	2.10e+06	1.38	y	38:23	0.98	355		-	-	*	Co-elute PCB 139
PCB-140	3.98e+04	1.19	y	38:33	0.96	6.85	J	-	-	*	
PCB-143	1.26e+05	1.34	y	39:01	0.79	26.4		-	-	*	Co-elute PCB 134
PCB-134	1.26e+05	1.34	y	39:01	0.79	26.4		-	-	*	Co-elute PCB 143
PCB-131	5.50e+04	1.28	y	39:16	0.79	11.6	J	-	-	*	Co-elute PCB 133
PCB-133	5.50e+04	1.28	y	39:16	0.79	11.6	J	-	-	*	Co-elute PCB 131
PCB-142	3.31e+07	1.27	y	39:26	0.82	6650		-	-	*	
PCB-165	5.19e+05	1.31	y	39:37	1.09	79.0		-	-	*	Co-elute PCB 146
PCB-146	5.19e+05	1.31	y	39:37	1.09	79.0		-	-	*	Co-elute PCB 165
PCB-161	6.74e+05	1.17	y	39:54	1.04	107		-	-	*	Co-elute PCB 132
PCB-132	6.74e+05	1.17	y	39:54	1.04	107		-	-	*	Co-elute PCB 161
PCB-153	2.26e+06	1.28	y	40:00	1.03	363		-	-	*	
PCB-168	*	*	n	NotFnd	1.23	*		872	716	2.34	
PCB-141	2.43e+05	1.39	y	41:44	0.89	45.4		-	-	*	
PCB-137	7.70e+04	1.09	y	41:06	0.89	14.3	J	-	-	*	
PCB-130	1.05e+05	1.32	y	41:11	0.73	23.5		-	-	*	
PCB-138	2.00e+06	1.30	y	41:31	1.08	306		-	-	*	Co-elute PCB 163/164
PCB-163	2.00e+06	1.30	y	41:31	1.08	306		-	-	*	Co-elute PCB 138/164
PCB-164	2.00e+06	1.30	y	41:31	1.08	306		-	-	*	Co-elute PCB 138/163
PCB-158	2.43e+05	1.39	y	41:44	1.20	33.4		-	-	*	Co-elute PCB 160
PCB-160	2.43e+05	1.39	y	41:44	1.20	33.4		-	-	*	Co-elute PCB 158
PCB-129	6.12e+04	1.29	y	42:01	0.76	13.4	J	-	-	*	
PCB-166	*	*	n	NotFnd	1.12	*		872	716	2.57	
PCB-159	5.90e+04	1.21	y	42:47	1.22	8.00	J	-	-	*	
PCB-128	2.26e+05	1.25	y	43:00	0.99	37.7		-	-	*	Co-elute PCB 162
PCB-162	2.26e+05	1.25	y	43:00	0.99	37.7		-	-	*	Co-elute PCB 128
PCB-167	6.94e+04	1.10	y	43:23	1.10	10.4	J	-	-	*	
13C-PCB-167	6.04e+07	1.27	y	43:21	1.18	8680					86.8
PCB-156	1.28e+05	1.08	y	44:35	1.18	18.7	J	-	-	*	
13C-PCB-156	5.81e+07	1.28	y	44:35	1.15	8530					85.3
PCB-157	3.27e+04	1.24	y	44:50	1.12	4.74	J	-	-	*	
13C-PCB-157	6.18e+07	1.31	y	44:50	1.18	8890					88.9
PCB-169	*	*	n	NotFnd	1.08	*		872	716	2.58	
13C-PCB-169	6.14e+07	1.27	y	46:42	1.06	9820					98.2

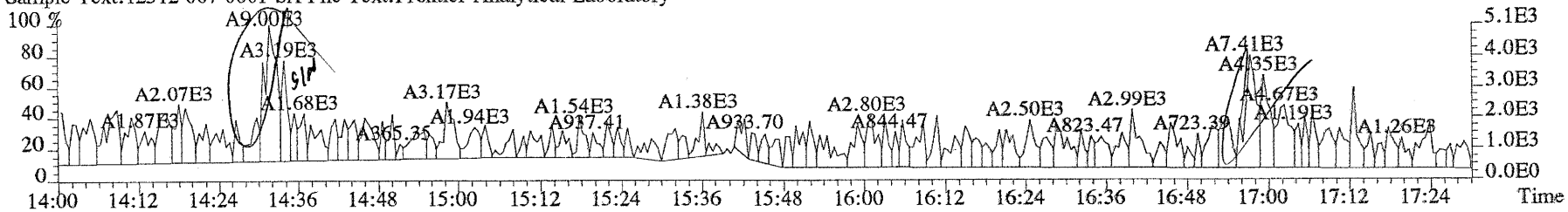
PCB-188	3.32e+04	1.08	y 39:39	1.02	4.92	J	-	-	*	
13C-PCB-188	6.63e+07	1.06	y 39:39	1.19	9410					94.1
PCB-184	1.89e+07	1.07	y 40:05	1.15	2630		-	-	*	
PCB-179	2.63e+05	1.15	y 40:50	1.09	38.8		-	-	*	
PCB-176	8.66e+04	1.12	y 41:16	1.05	13.3	J	-	-	*	
PCB-186	*	*	n NotFnd	1.08	*		1050	456	2.19	
PCB-178	8.30e+04	1.17	y 42:17	0.70	19.0	J	-	-	*	
PCB-175	*	*	n NotFnd	0.76	*		1050	456	3.11	
PCB-187	4.52e+05	1.08	y 42:47	0.84	86.0		-	-	*	Co-elute PCB 182
PCB-182	4.52e+05	1.08	y 42:47	0.84	86.0		-	-	*	Co-elute PCB 187
PCB-183	2.38e+05	1.06	y 43:05	0.81	47.1		-	-	*	
PCB-185	4.85e+04	1.04	y 43:44	0.74	10.5	J	-	-	*	
PCB-174	2.84e+05	1.05	y 44:02	0.74	61.9		-	-	*	
PCB-181	*	*	n NotFnd	0.80	*		1050	456	2.96	
PCB-177	1.77e+05	1.00	y 44:19	0.70	40.9		-	-	*	
PCB-171	9.02e+04	1.12	y 44:35	0.76	19.1	J	-	-	*	
PCB-173	*	*	n NotFnd	0.66	*		1050	456	3.57	
PCB-172	3.18e+05	0.99	y 45:23	0.67	76.2		-	-	*	
PCB-192	1.15e+07	1.04	y 45:35	0.91	2020		-	-	*	
PCB-180	4.93e+05	1.06	y 45:44	0.69	114		-	-	*	
PCB-193	*	*	n NotFnd	0.98	*		1050	456	2.41	
PCB-191	*	*	n NotFnd	0.96	*		1050	456	2.46	
PCB-170	1.84e+05	1.14	y 47:02	0.69	43.1		-	-	*	
PCB-190	5.62e+04	1.07	y 47:12	0.93	9.73	J	-	-	*	
PCB-189	*	*	n NotFnd	0.98	*		1050	456	2.07	
13C-PCB-189	5.84e+07	1.07	y 48:22	1.01	9800					98.0
PCB-202	3.50e+04	0.90	y 44:45	1.00	7.24	J	-	-	*	
PCB-201	*	*	n NotFnd	1.03	*		272	616	1.90	
PCB-204	2.59e+07	0.92	y 45:21	1.02	5230		-	-	*	
PCB-197	1.68e+05	0.90	y 45:38	1.09	32.0		-	-	*	
PCB-200	*	*	n NotFnd	1.07	*		272	616	1.84	
PCB-198	*	*	n NotFnd	0.69	*		272	616	2.84	
PCB-199	8.48e+04	0.82	y 47:38	0.77	22.8		-	-	*	
PCB-203	9.27e+04	0.85	y 47:54	0.83	23.1		-	-	*	Co-elute PCB 196
PCB-196	9.27e+04	0.85	y 47:54	0.83	23.1		-	-	*	Co-elute PCB 203
13C-PCB-202	4.83e+07	0.92	y 44:45	0.96	8480					84.8
13C-PCB-178	4.23e+07	1.08	y 42:17	0.77	9290					92.9
13C-PCB-138	5.92e+07	1.29	y 41:29	-	84.7					
PCB-195	3.77e+04	0.89	y 49:01	0.81	7.21	J	-	-	*	
PCB-194	8.61e+04	0.84	y 49:48	0.89	14.9	J	-	-	*	
PCB-205	*	*	n NotFnd	1.11	*		408	1340	1.69	
13C-PCB-205	6.49e+07	0.90	y 50:02	1.26	9280					92.8
PCB-208	*	*	n NotFnd	1.01	*		750	754	1.75	
13C-PCB-208	6.46e+07	0.80	y 49:06	1.35	8590					85.9
PCB-207	1.34e+05	1.19	y 49:25	1.13	21.6		-	-	*	
PCB-206	2.56e+04	1.13	y 51:15	1.04	5.44	J	-	-	*	
13C-PCB-206	4.55e+07	0.81	y 51:14	0.93	8810					88.1
PCB-209	1.43e+05	1.22	y 52:26	1.10	23.1		-	-	*	
13C-PCB-209	5.66e+07	1.19	y 52:25	1.19	8560					85.6
13C-PCB-194	5.56e+07	0.92	y 49:47	-	93.8					

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

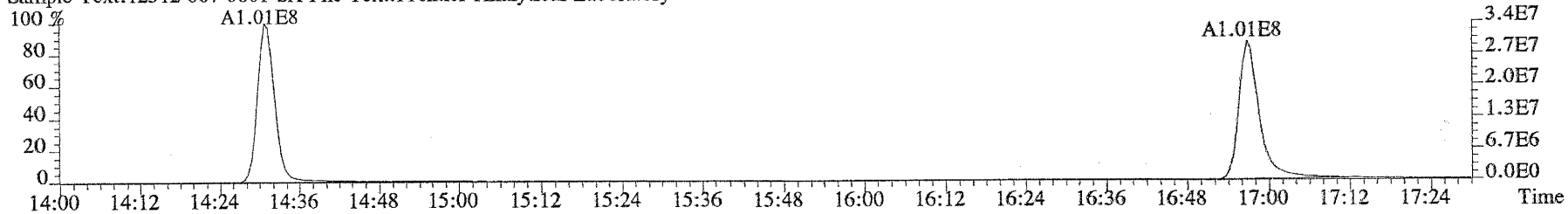
File:06AUG19Z #1-783 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



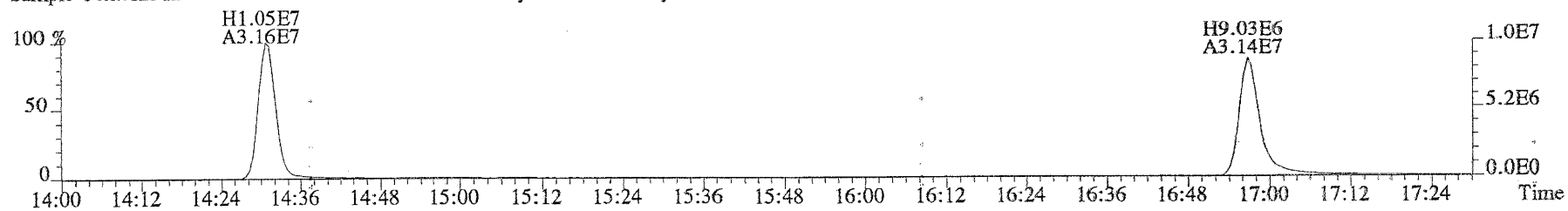
File:06AUG19Z #1-783 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



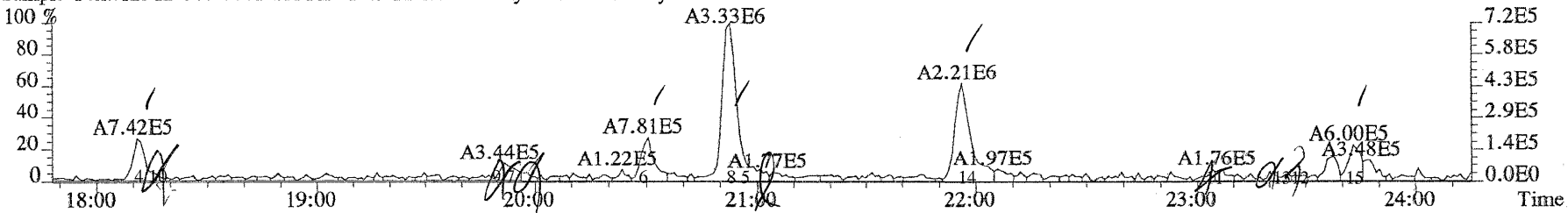
File:06AUG19Z #1-783 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



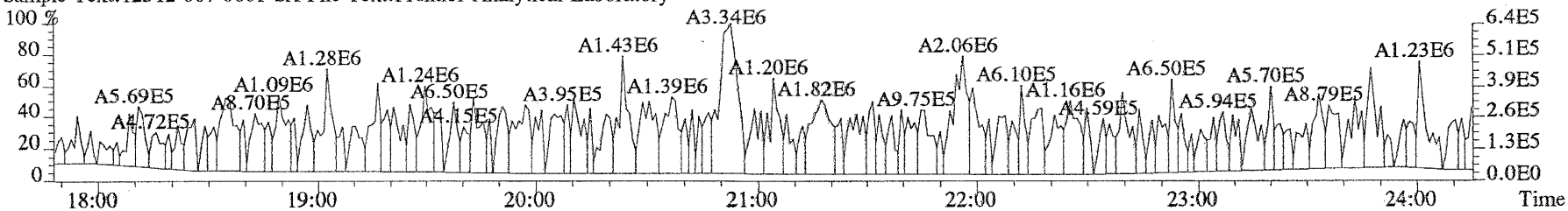
File:06AUG19Z #1-783 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



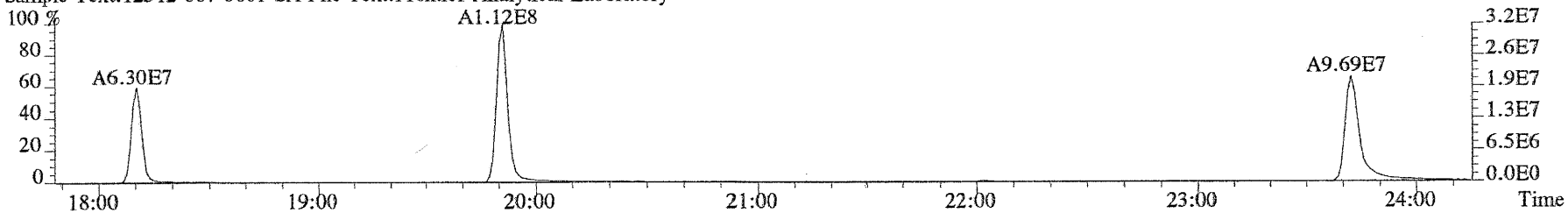
File:06AUG19Z #1-520 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:10 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



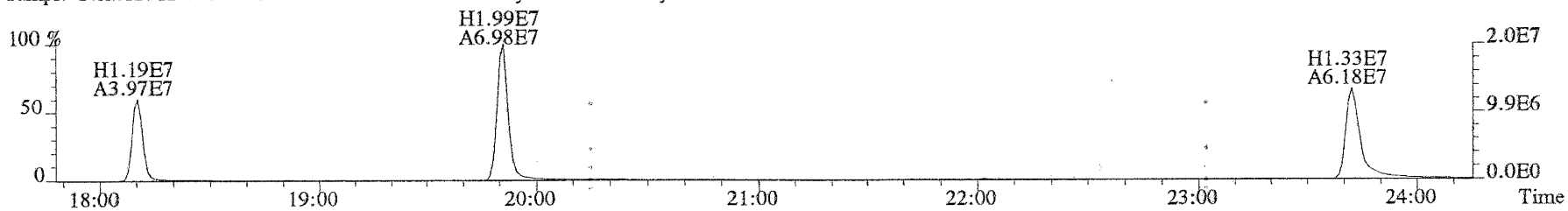
File:06AUG19Z #1-520 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:10 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



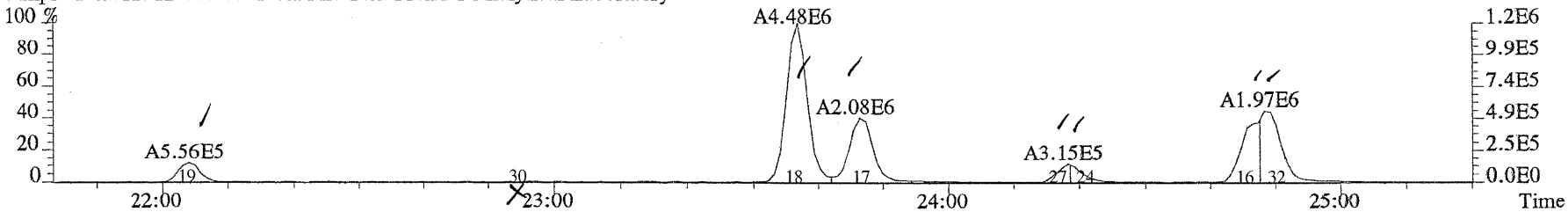
File:06AUG19Z #1-520 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:10 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



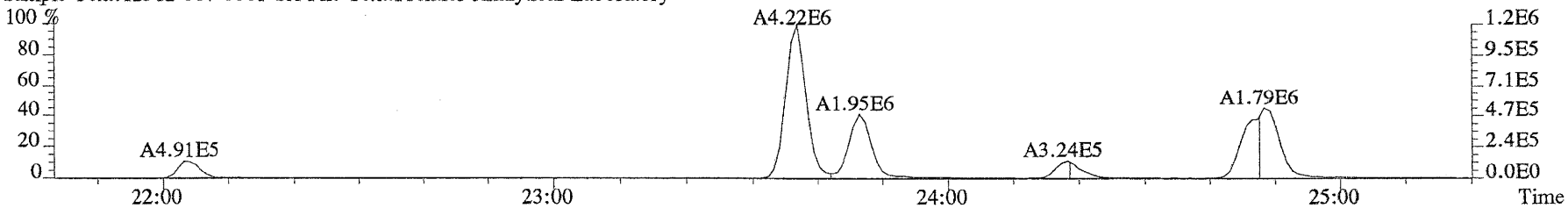
File:06AUG19Z #1-520 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:10 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



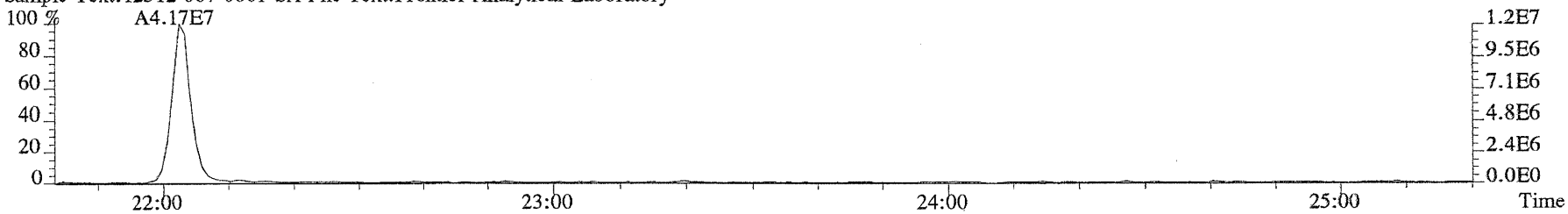
File:06AUG19Z #1-520 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



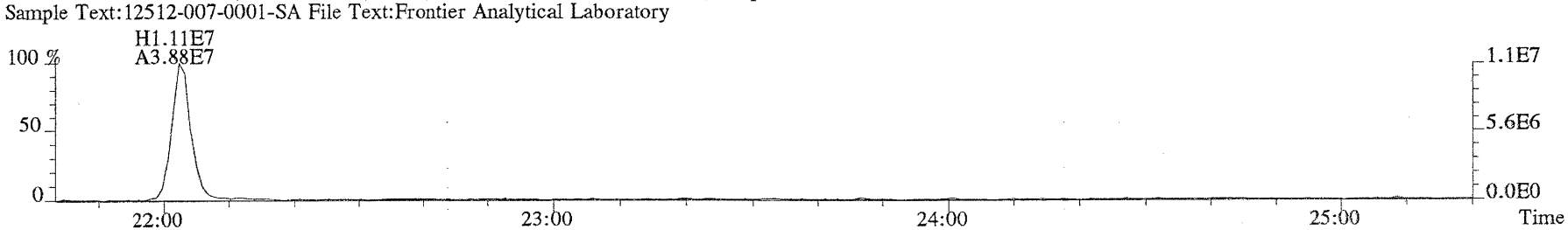
File:06AUG19Z #1-520 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



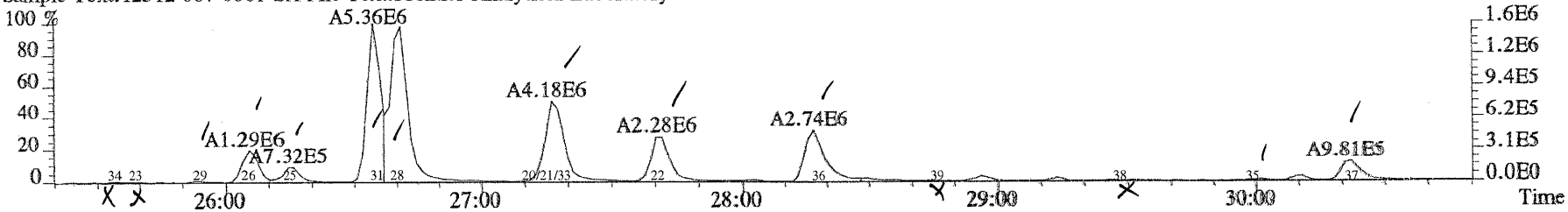
File:06AUG19Z #1-520 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



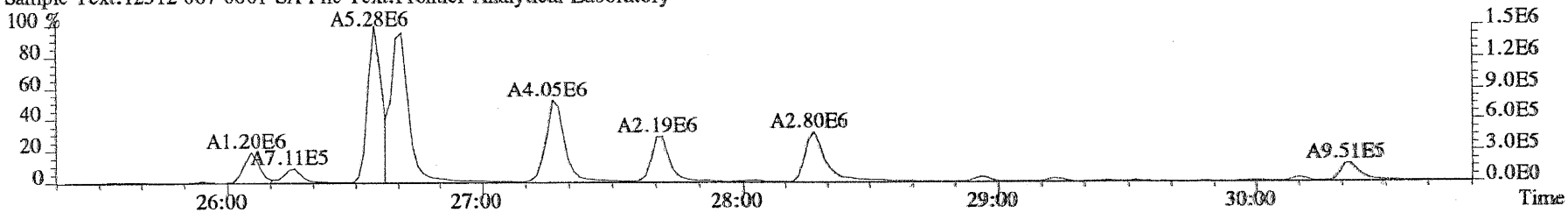
File:06AUG19Z #1-520 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



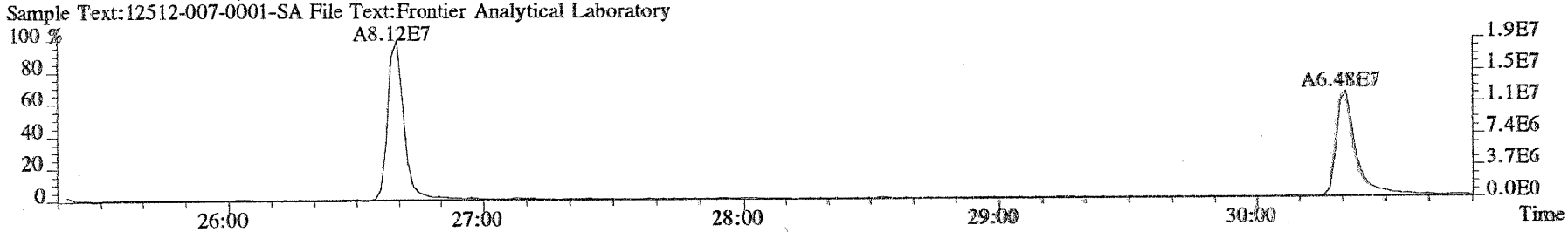
File:06AUG19Z #1-402 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



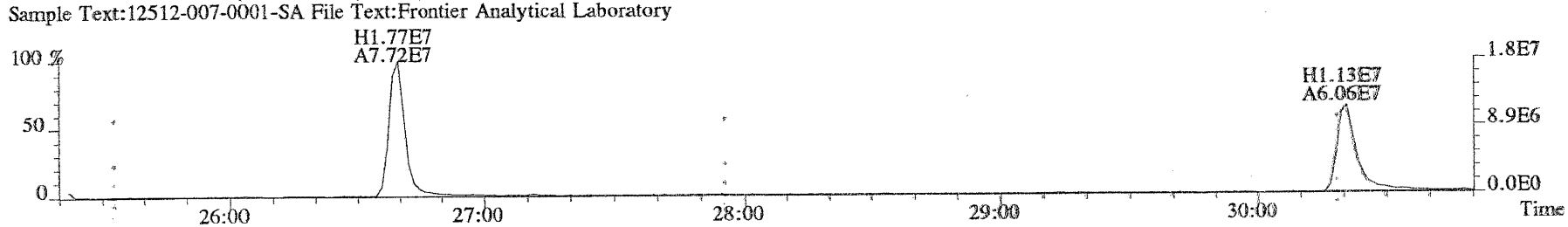
File:06AUG19Z #1-402 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



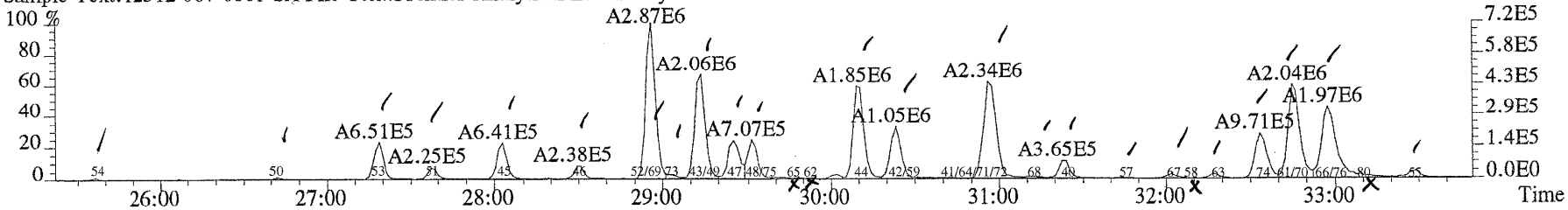
File:06AUG19Z #1-402 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



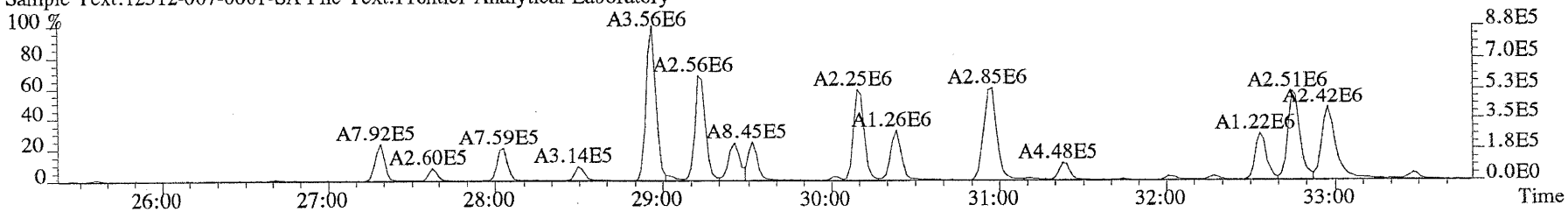
File:06AUG19Z #1-402 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



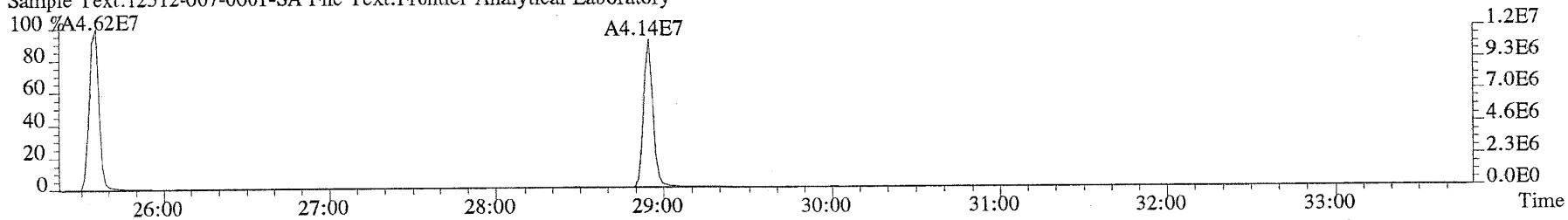
File:06AUG19Z #1-402 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



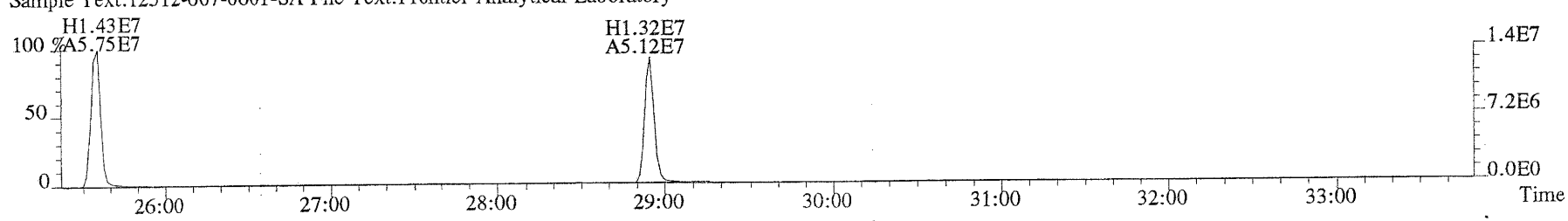
File:06AUG19Z #1-402 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



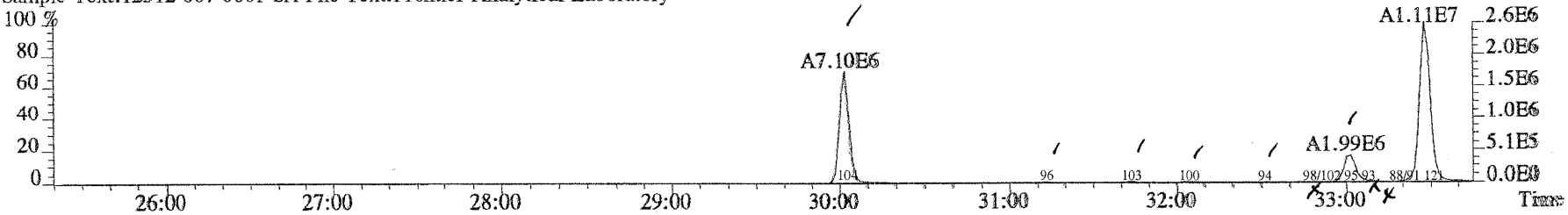
File:06AUG19Z #1-402 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



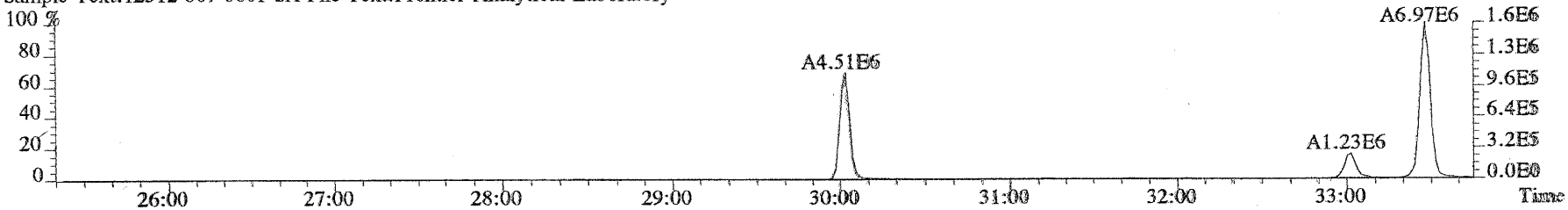
File:06AUG19Z #1-402 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



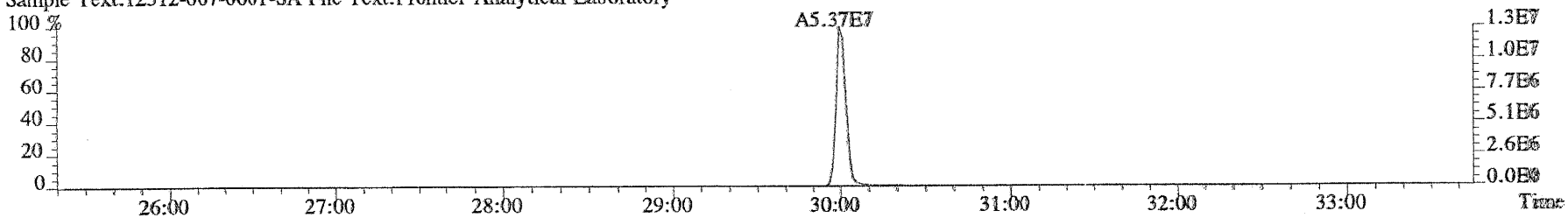
File:06AUG19Z #1-402 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



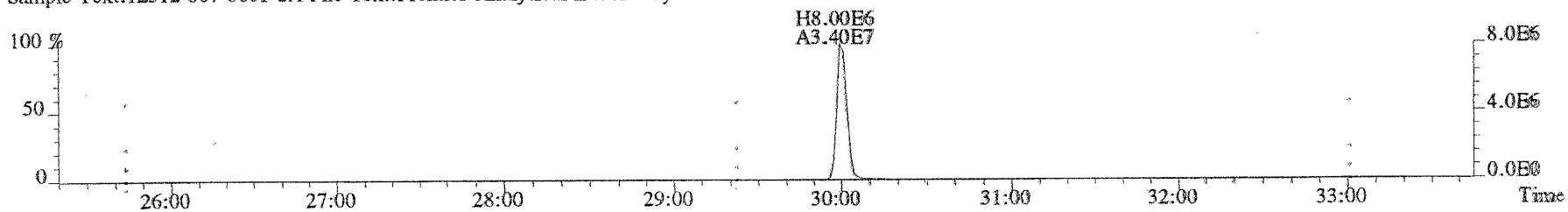
File:06AUG19Z #1-402 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



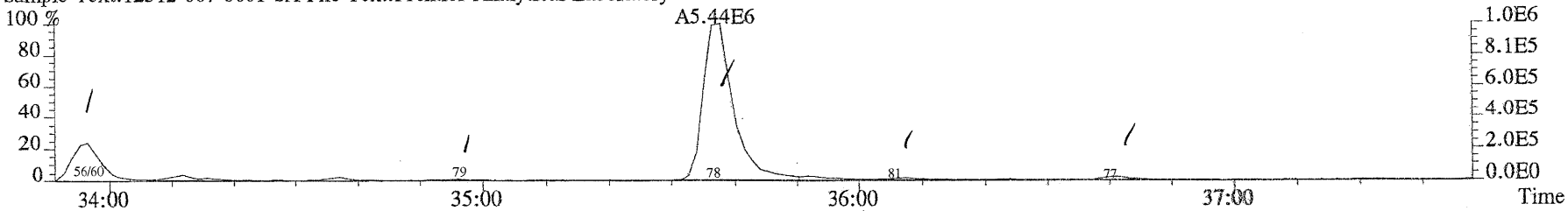
File:06AUG19Z #1-402 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



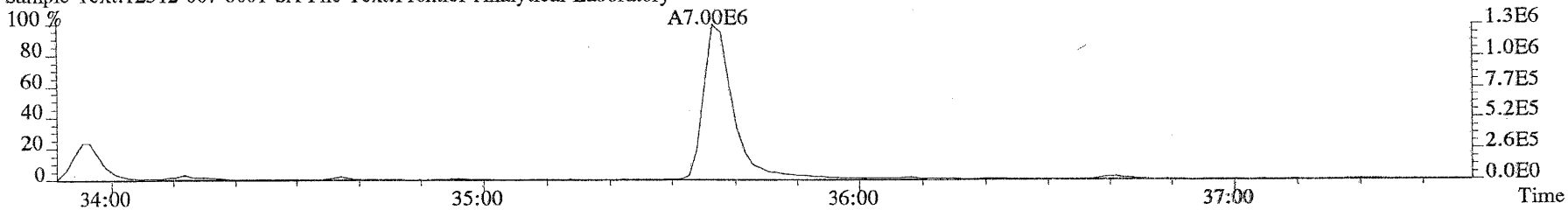
File:06AUG19Z #1-402 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



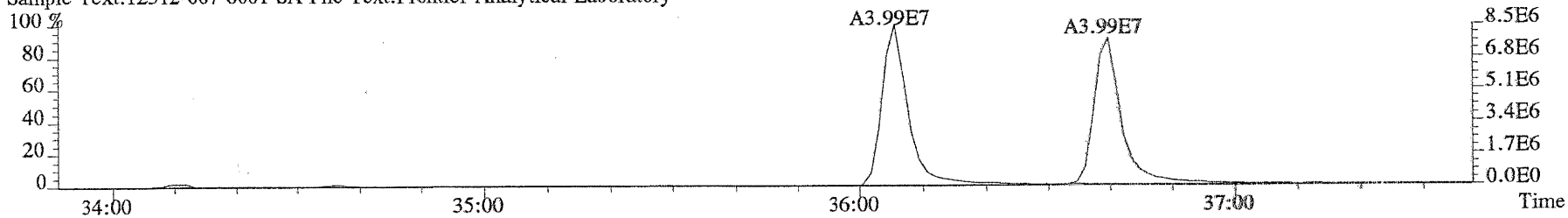
File:06AUG19Z #1-180 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



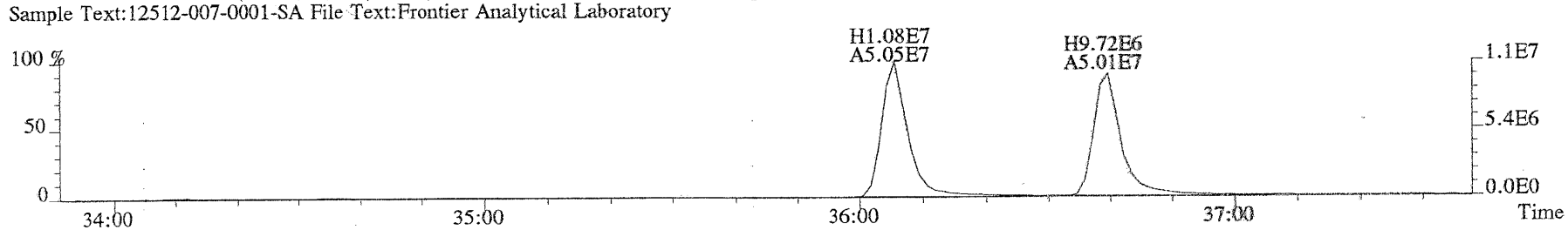
File:06AUG19Z #1-180 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



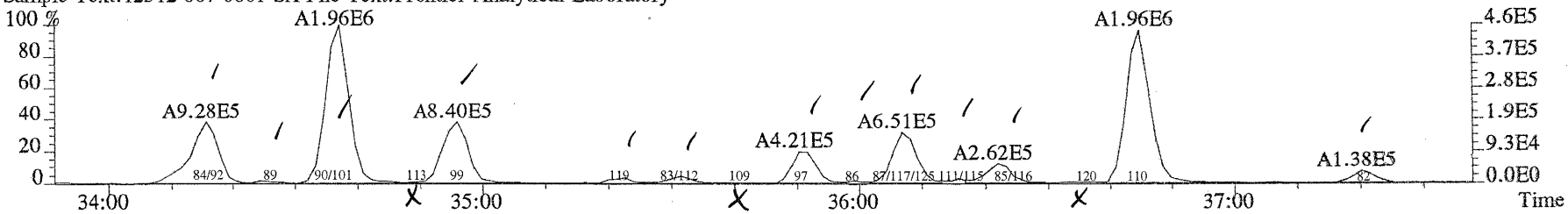
File:06AUG19Z #1-180 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



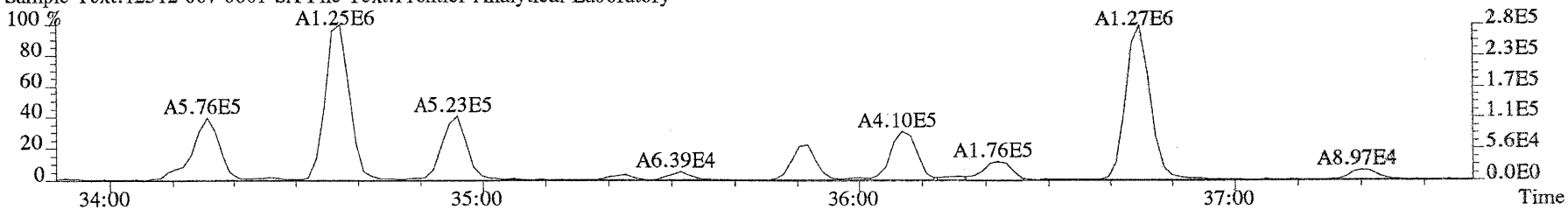
File:06AUG19Z #1-180 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



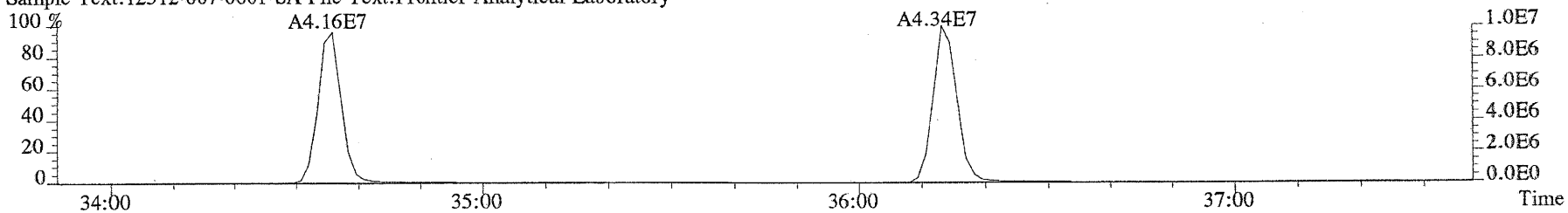
File:06AUG19Z #1-180 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



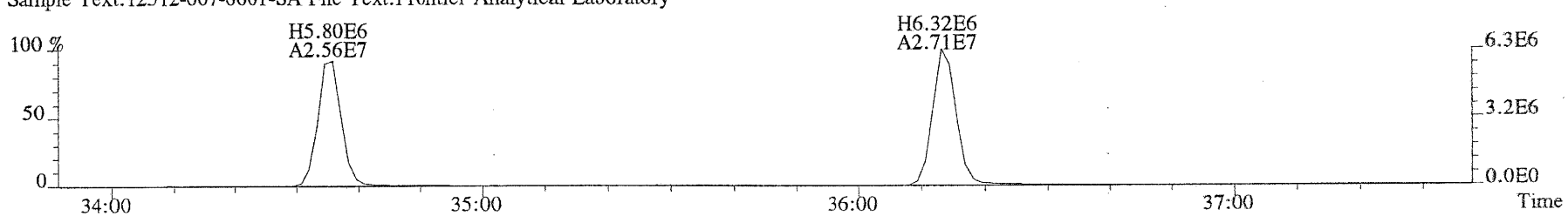
File:06AUG19Z #1-180 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



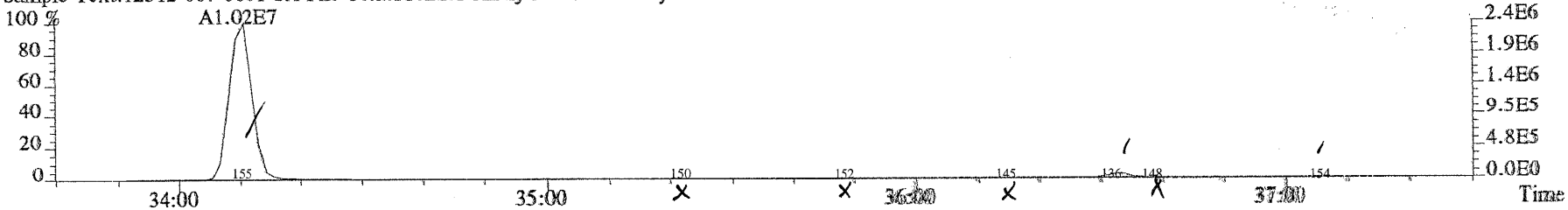
File:06AUG19Z #1-180 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



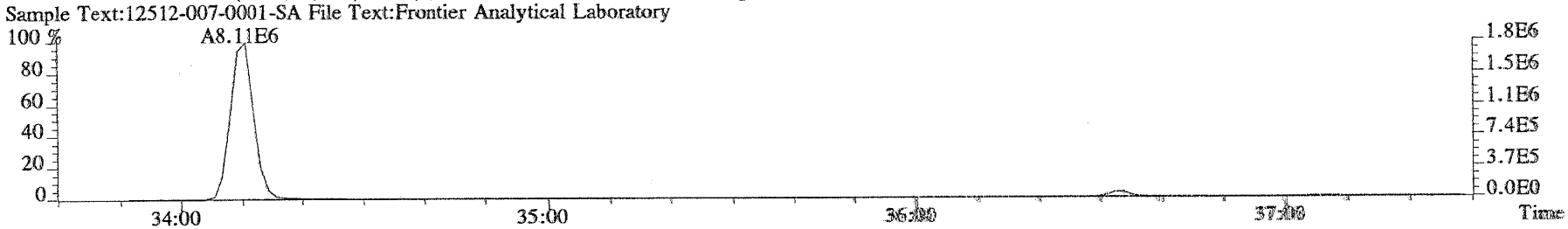
File:06AUG19Z #1-180 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



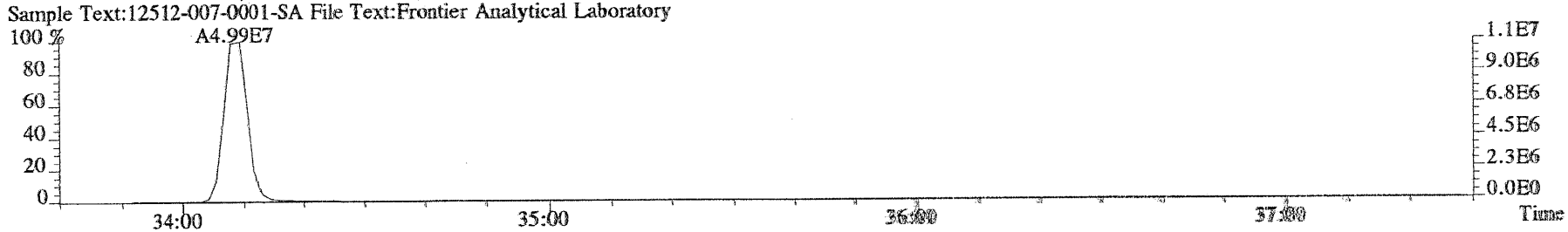
File:06AUG19Z #1-180 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-180 Acq: 6-AUG-2019 17:03:36 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:12512-007-0001-SA File Text:Frontier Analytical Laboratory

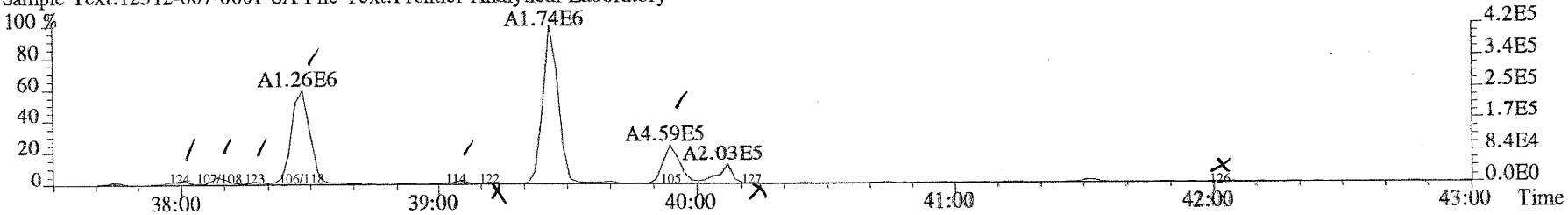


File:06AUG19Z #1-180 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory

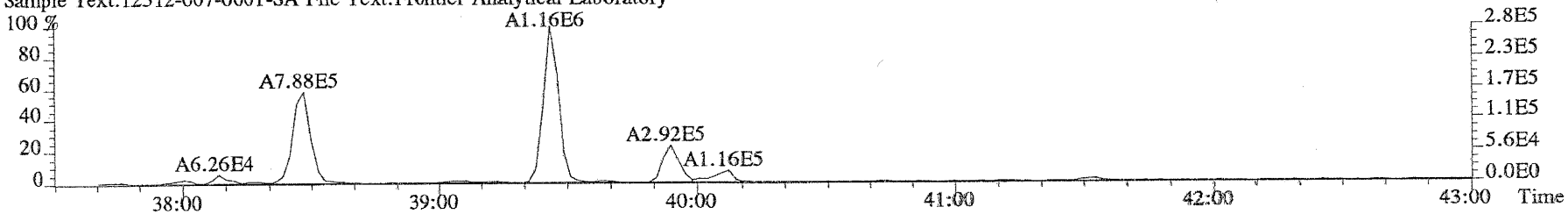


File:06AUG19Z #1-180 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory

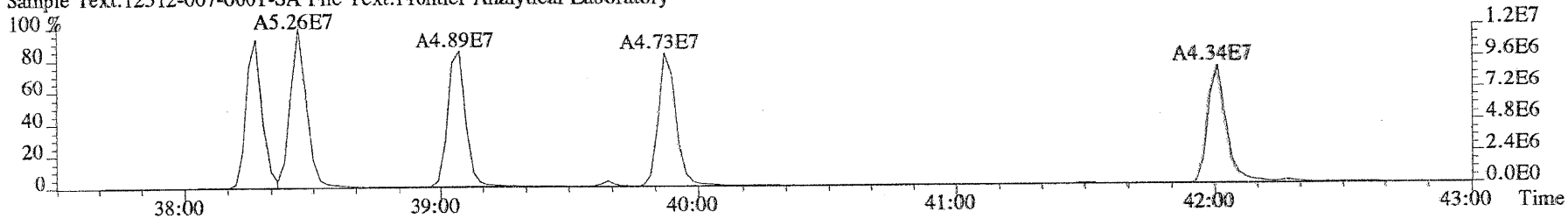
File:06AUG19Z #1-405 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



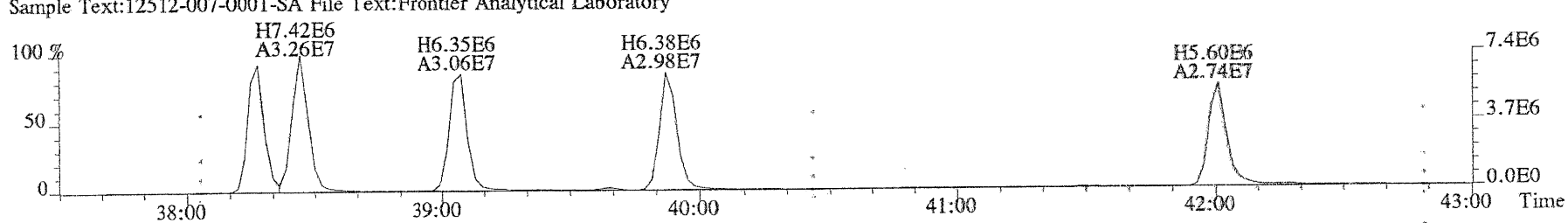
File:06AUG19Z #1-405 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



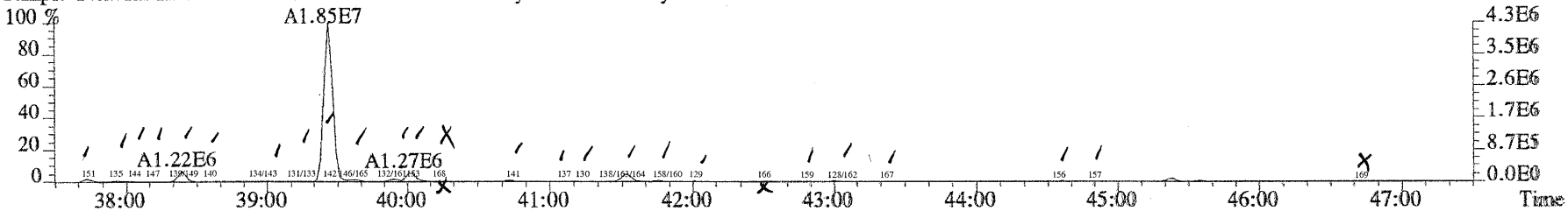
File:06AUG19Z #1-405 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



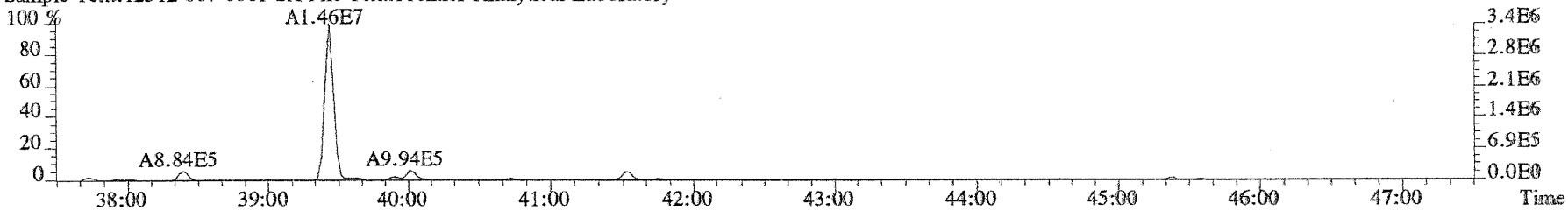
File:06AUG19Z #1-405 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



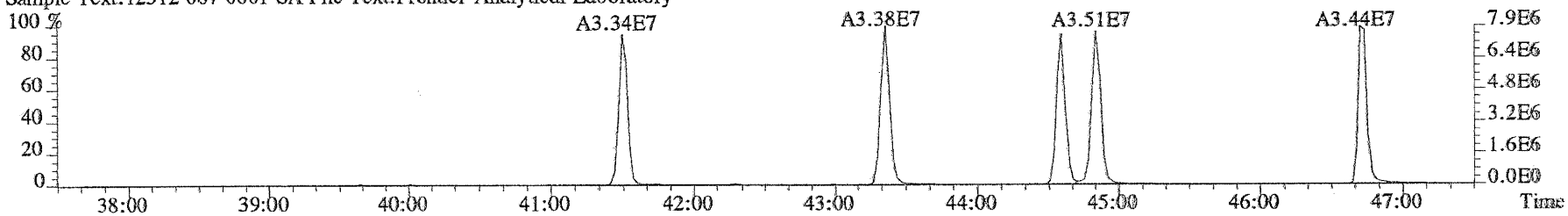
File:06AUG19Z #1-405 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



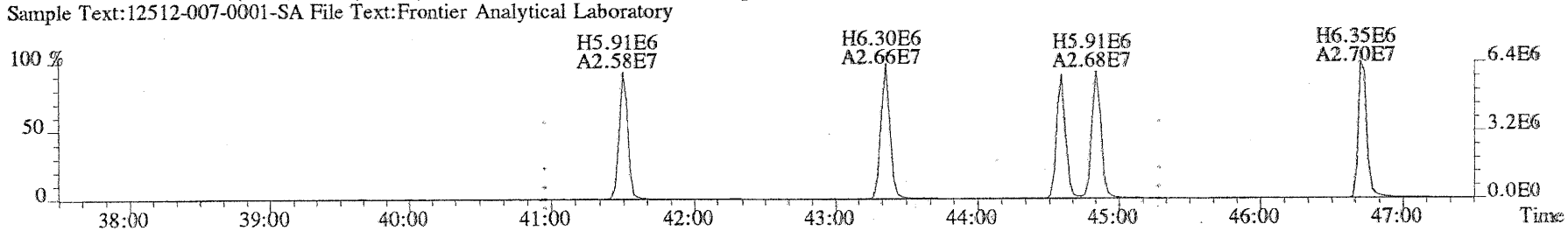
File:06AUG19Z #1-405 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



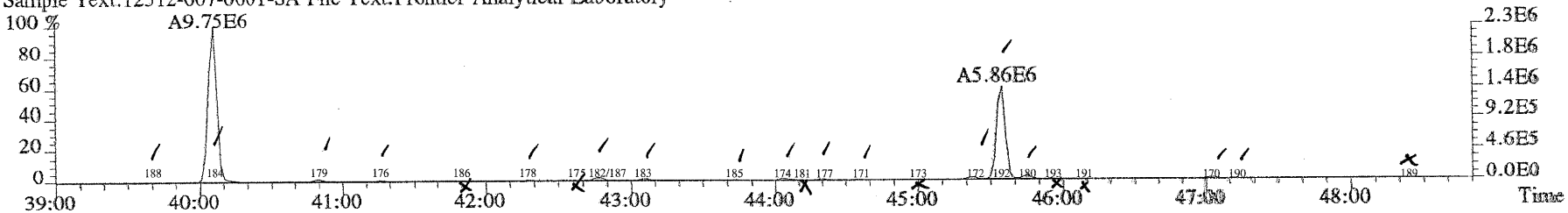
File:06AUG19Z #1-405 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



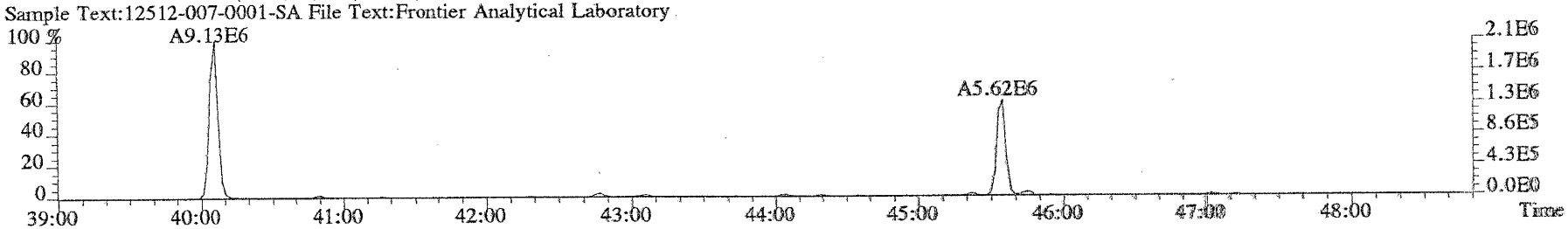
File:06AUG19Z #1-405 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



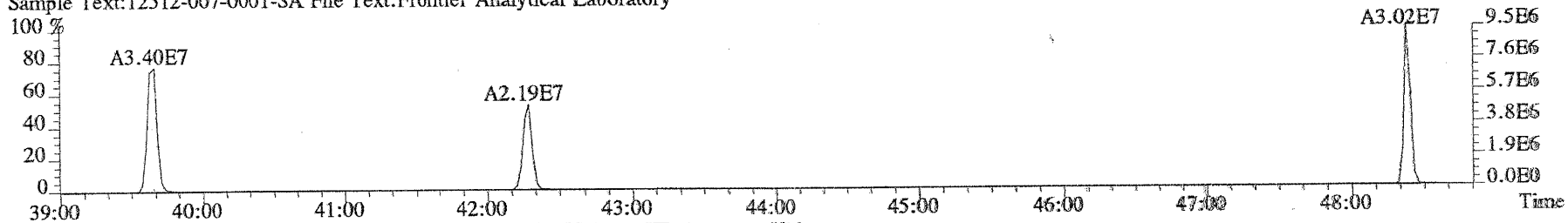
File:06AUG19Z #1-405 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



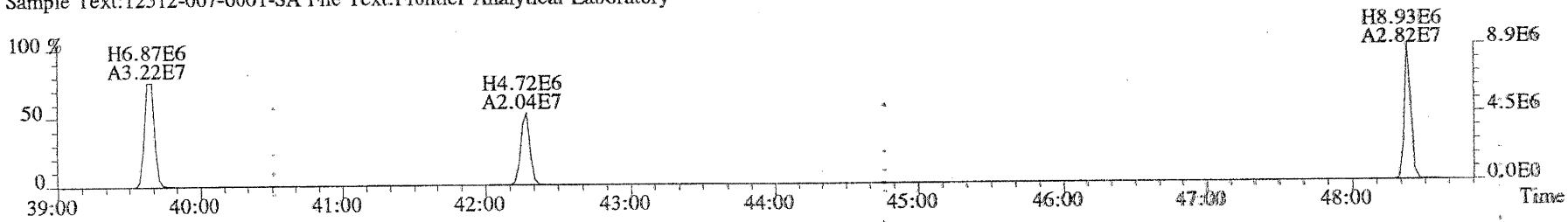
File:06AUG19Z #1-405 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



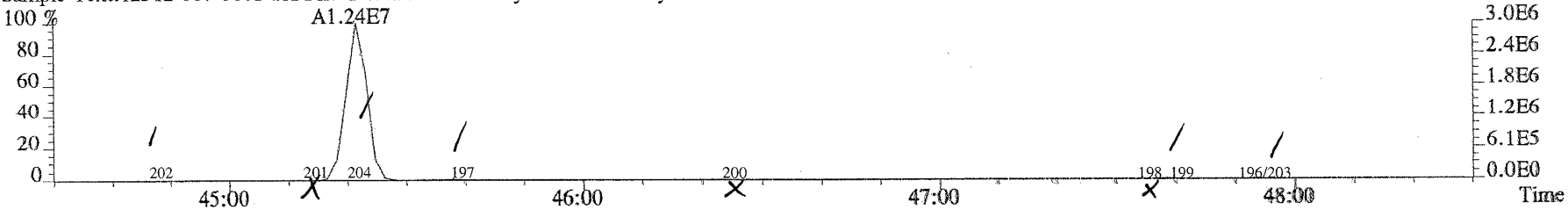
File:06AUG19Z #1-405 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



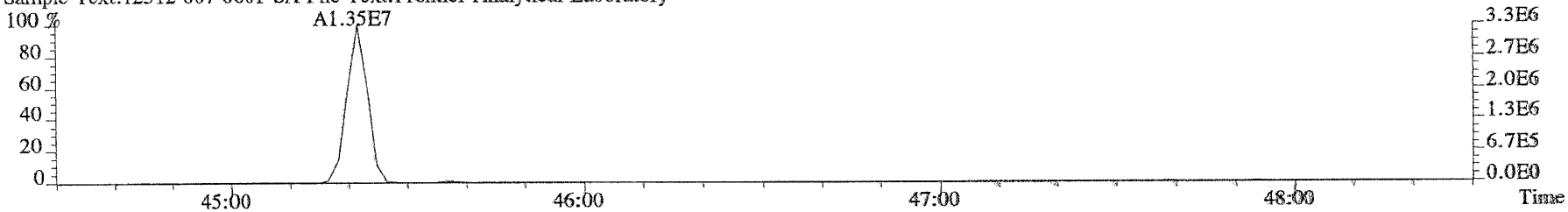
File:06AUG19Z #1-405 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



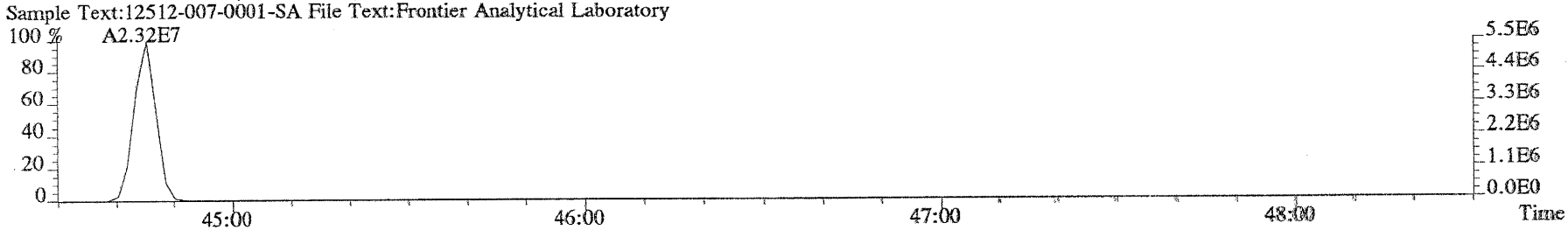
File:06AUG19Z #1-405 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



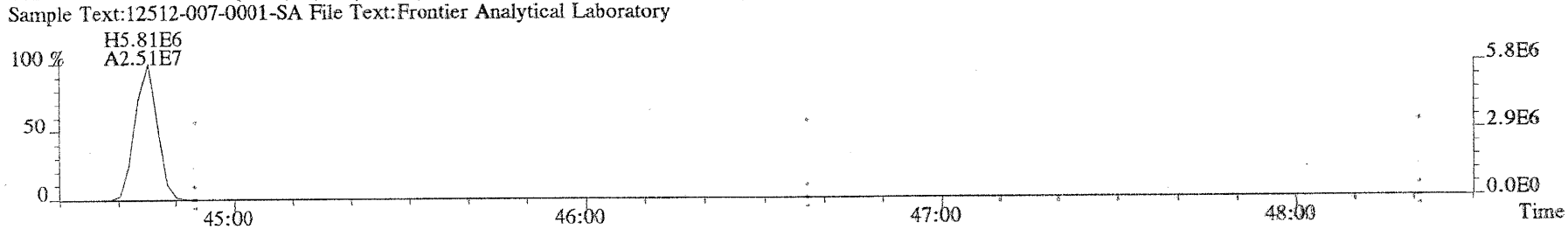
File:06AUG19Z #1-405 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



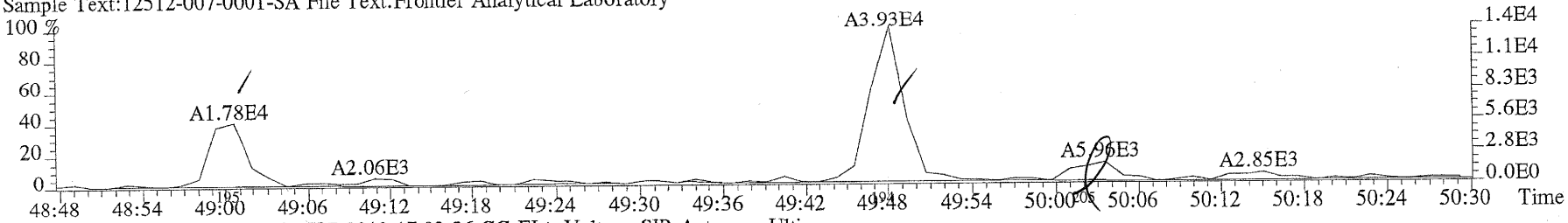
File:06AUG19Z #1-405 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



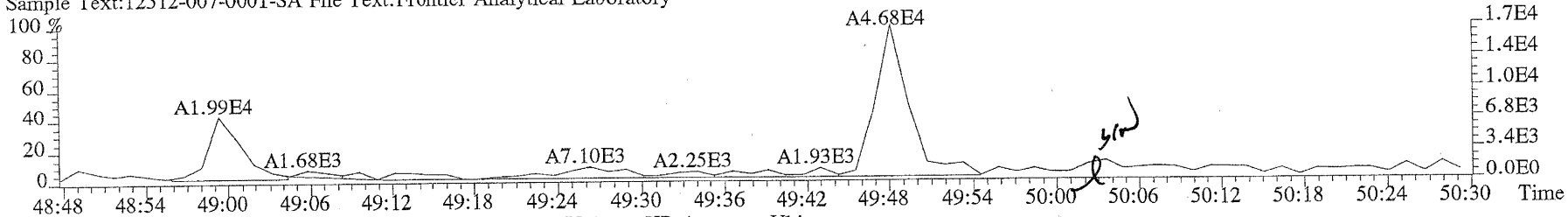
File:06AUG19Z #1-405 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



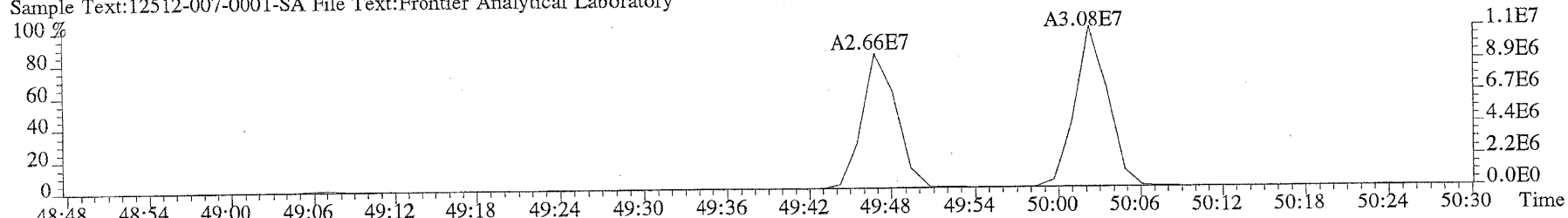
File:06AUG19Z #1-315 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



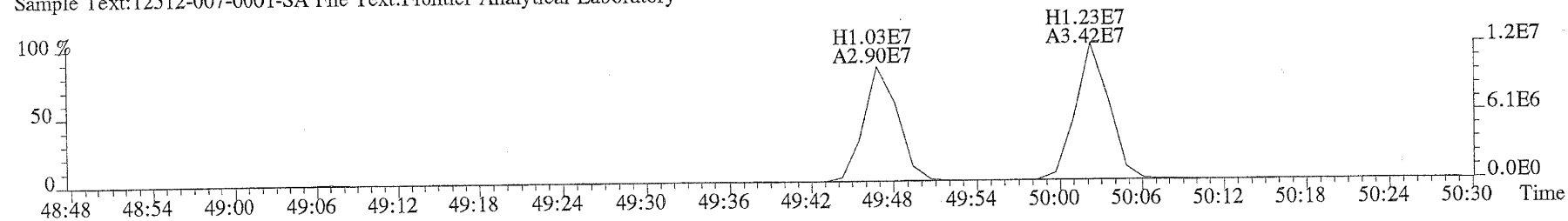
File:06AUG19Z #1-315 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



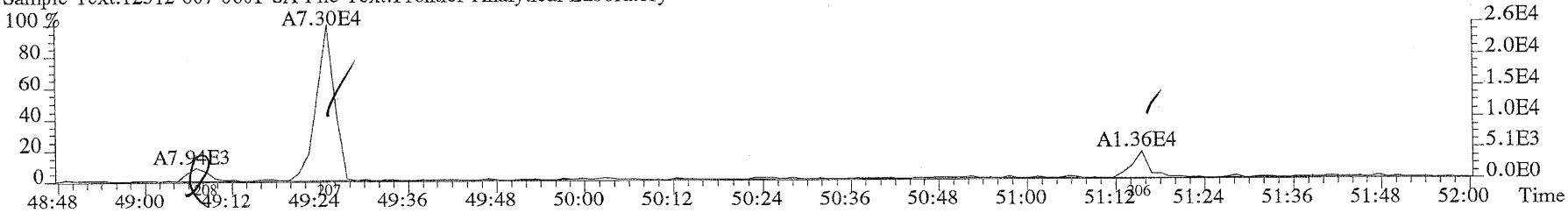
File:06AUG19Z #1-315 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



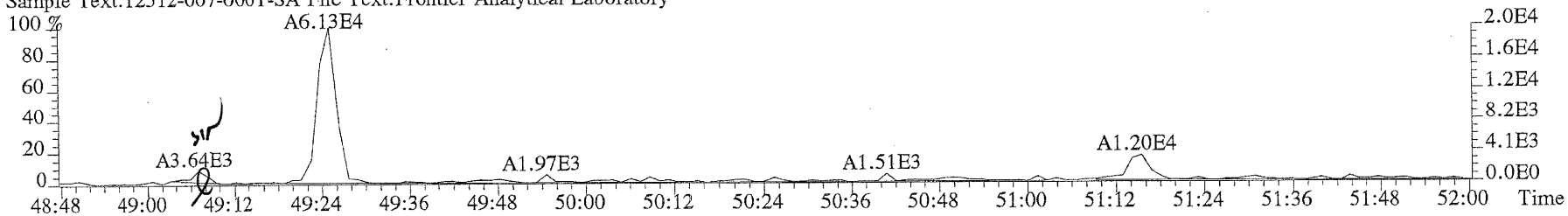
File:06AUG19Z #1-315 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



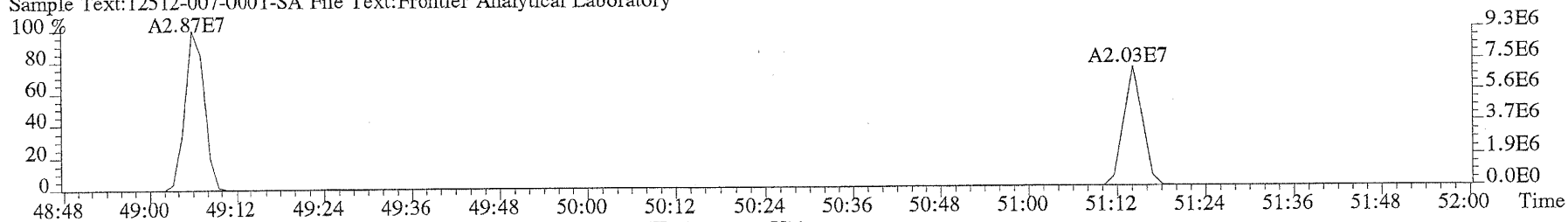
File:06AUG19Z #1-315 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



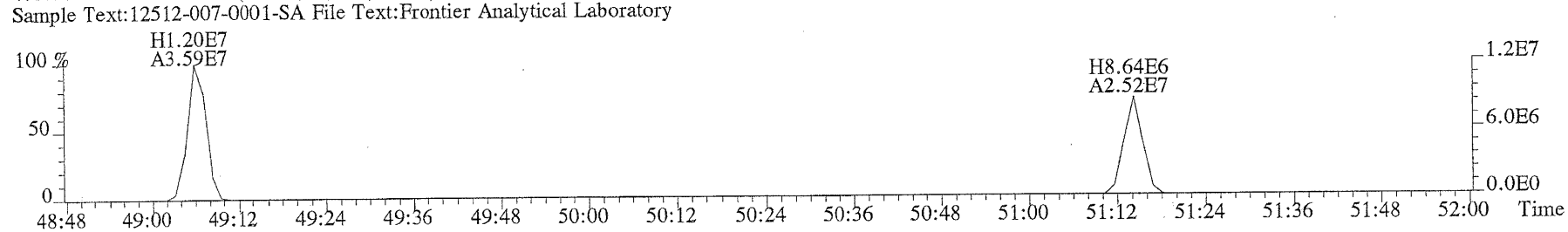
File:06AUG19Z #1-315 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



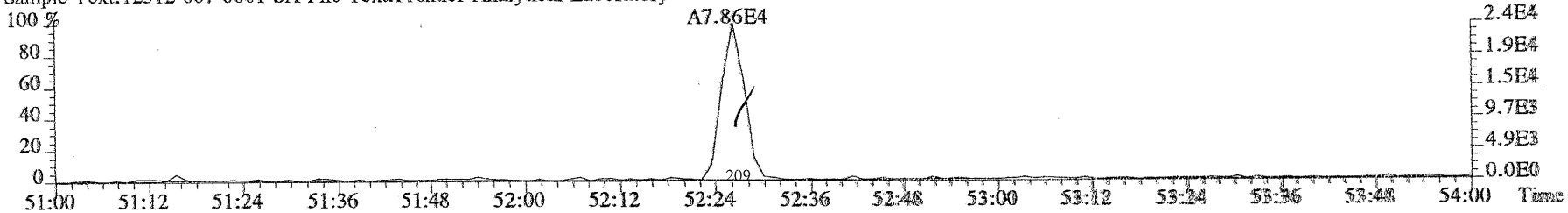
File:06AUG19Z #1-315 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



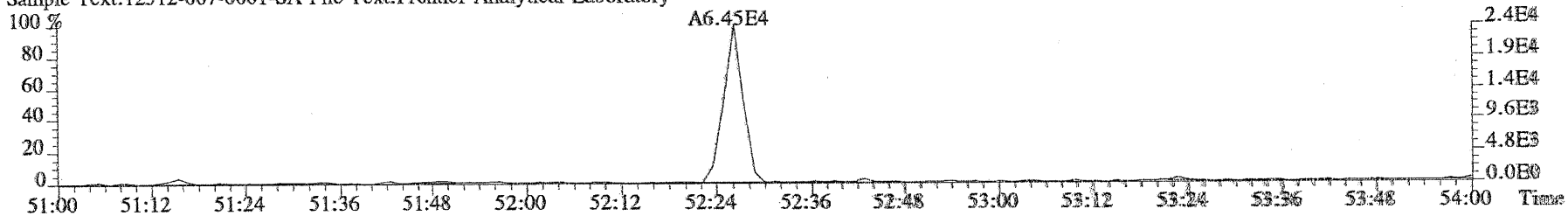
File:06AUG19Z #1-315 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



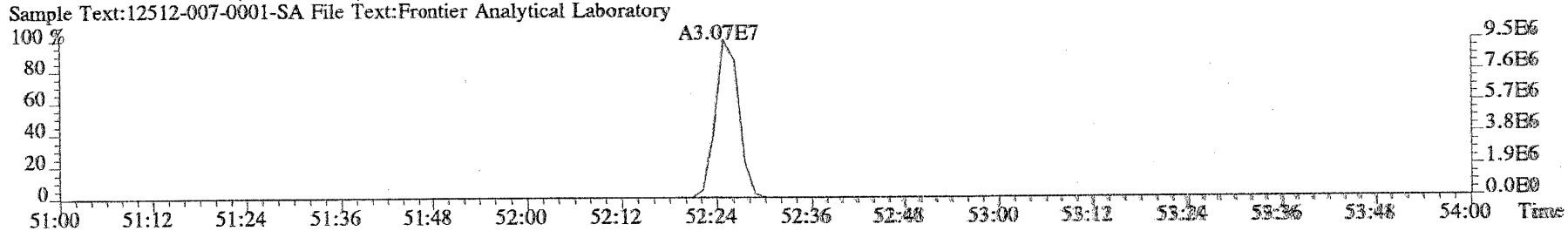
File:06AUG19Z #1-315 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



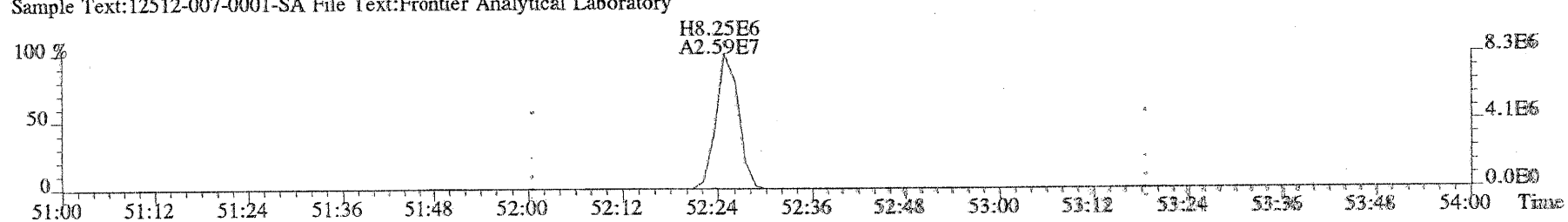
File:06AUG19Z #1-315 Acq: 6-AUG-2019 17:03:36 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-007-0001-SA File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-315 Acq: 6-AUG-2019 17:03:36 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:12512-007-0001-SA File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-315 Acq: 6-AUG-2019 17:03:36 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:12512-007-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12512-013-0001-SA Filename: 05AUG19Z Sam:11 Acquired: 5-AUG-19 19:19:42 ICal: DAILY209FAL4-8-5-19
Client ID: LDW-Y2-SC-ENR-CC-S010 ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 12511-9 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	7.79e+04	2.93 y	14:33	1.19	6.55	J	-	-	*	
13C-PCB-1	1.00e+08	3.16 y	14:32	0.92	8490					84.9
PCB-2	*	* n	NotFnd	1.17	*		1960	1880	2.69	
PCB-3	*	* n	NotFnd	1.22	*		1960	1880	2.86	
13C-PCB-3	9.90e+07	3.37 y	16:58	0.87	8890					88.9
PCB-4	2.04e+06	1.56 y	18:13	1.25	217		-	-	*	
PCB-10	2.37e+05	1.57 y	18:16	1.30	19.6	J	-	-	*	
13C-PCB-4	7.56e+07	1.58 y	18:11	0.71	8250					82.5
PCB-9	5.54e+05	1.47 y	19:54	1.37	43.6		-	-	*	
PCB-7	4.20e+05	1.58 y	19:55	1.36	33.1		-	-	*	
PCB-6	2.01e+06	1.48 y	20:31	1.59	136		-	-	*	
PCB-8	8.73e+06	1.51 y	20:54	1.33	706		-	-	*	
PCB-5	*	* n	NotFnd	1.34	*		840	7560	6.76	
PCB-14	3.93e+06	1.47 y	21:57	1.30	325		-	-	*	
PCB-11	5.03e+05	1.50 y	23:06	1.18	46.1		-	-	*	
PCB-13	*	* n	NotFnd	1.24	*		840	7560	7.34	
PCB-12	*	* n	NotFnd	1.25	*		840	7560	7.28	
PCB-15	2.70e+06	1.50 y	23:45	1.12	220		-	-	*	
13C-PCB-15	1.10e+08	1.61 y	23:44	0.95	8980					89.8
PCB-19	1.65e+06	1.05 y	22:06	1.19	246		-	-	*	
PCB-30	*	* n	NotFnd	1.71	*		2140	616	2.57	
PCB-18	1.58e+07	1.07 y	23:38	1.13	2470		-	-	*	
PCB-17	7.60e+06	1.07 y	23:48	1.27	1060		-	-	*	
PCB-27	8.95e+05	1.07 y	24:19	1.58	100.0		-	-	*	
PCB-24	1.24e+06	1.13 y	24:20	1.67	132		-	-	*	
PCB-16	5.09e+06	1.03 y	24:48	1.24	729		-	-	*	
PCB-32	6.79e+06	1.13 y	24:50	1.60	752		-	-	*	
13C-PCB-19	5.65e+07	1.06 y	22:04	0.50	8750					87.5
13C-PCB-9	1.29e+08	1.62 y	19:52	-	76.0					
PCB-34	1.38e+05	1.08 y	25:36	1.28	11.6	J	-	-	*	
PCB-23	9.05e+04	1.06 y	25:39	1.28	7.55	J	-	-	*	
PCB-29	3.06e+05	1.18 y	25:55	1.29	25.3		-	-	*	
PCB-26	5.13e+06	1.06 y	26:07	1.26	435		-	-	*	
PCB-25	2.88e+06	1.03 y	26:17	1.26	245		-	-	*	
PCB-31	2.69e+07	1.05 y	26:36	1.26	2290		-	-	*	
PCB-28	2.96e+07	1.09 y	26:42	1.55	2040		-	-	*	
PCB-20	1.86e+07	1.06 y	27:19	1.25	1600		-	-	*	Co-elute PCB 21/33
PCB-21	1.86e+07	1.06 y	27:19	1.25	1600		-	-	*	Co-elute PCB 20/33
PCB-33	1.86e+07	1.06 y	27:19	1.25	1600		-	-	*	Co-elute PCB 20/21
PCB-22	9.47e+06	1.06 y	27:43	1.38	737		-	-	*	
PCB-36	5.63e+06	1.05 y	28:18	1.23	492		-	-	*	
PCB-39	*	* n	NotFnd	1.23	*		1450	1340	3.30	
PCB-38	1.25e+05	1.04 y	29:26	1.26	10.6	J	-	-	*	
PCB-35	2.71e+05	1.16 y	30:02	1.11	26.2		-	-	*	
PCB-37	4.68e+06	1.09 y	30:23	1.16	432		-	-	*	
13C-PCB-37	9.34e+07	1.05 y	30:22	1.52	9430					94.3

PCB-54	1.00e+05	0.85	y	25:37	1.23	10.7	J	-	-	*	
PCB-50	1.01e+05	0.87	y	26:44	0.93	14.2	J	-	-	*	
PCB-53	2.77e+06	0.79	y	27:20	0.91	399		-	-	*	
PCB-51	8.97e+05	0.81	y	27:39	0.92	127		-	-	*	
PCB-45	2.64e+06	0.81	y	28:04	0.78	445		-	-	*	
PCB-46	9.64e+05	0.82	y	28:32	0.74	171		-	-	*	
PCB-52	1.15e+07	0.79	y	28:57	0.89	1690		-	-	*	Co-elute PCB 69
PCB-69	1.15e+07	0.79	y	28:57	0.89	1690		-	-	*	Co-elute PCB 52
PCB-73	3.46e+05	0.80	y	29:04	1.15	39.4		-	-	*	
PCB-43	8.16e+06	0.80	y	29:15	0.79	1350		-	-	*	Co-elute PCB 49
PCB-49	8.16e+06	0.80	y	29:15	0.79	1350		-	-	*	Co-elute PCB 43
PCB-47	3.01e+06	0.78	y	29:26	0.87	452		-	-	*	
PCB-48	3.17e+06	0.83	y	29:33	1.00	415		-	-	*	Co-elute PCB 75
PCB-75	3.17e+06	0.83	y	29:33	1.00	415		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*		1070	1290	2.87	
PCB-62	*	*	n	NotFnd	1.07	*		1070	1290	2.69	
PCB-44	7.80e+06	0.80	y	30:12	0.68	1500		-	-	*	
PCB-42	4.30e+06	0.79	y	30:24	0.90	623		-	-	*	Co-elute PCB 59
PCB-59	4.30e+06	0.79	y	30:24	0.90	623		-	-	*	Co-elute PCB 42
PCB-72	9.91e+06	0.78	y	30:59	0.99	1310		-	-	*	Co-elute PCB 41/71/64
PCB-41	9.91e+06	0.78	y	30:59	0.99	1310		-	-	*	Co-elute PCB 72/71/64
PCB-71	9.91e+06	0.78	y	30:59	0.99	1310		-	-	*	Co-elute PCB 72/41/64
PCB-64	9.91e+06	0.78	y	30:59	0.99	1310		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.68e+05	0.71	y	31:14	1.12	19.6	J	-	-	*	
PCB-40	1.53e+06	0.78	y	31:25	0.63	317		-	-	*	
PCB-57	8.65e+04	0.76	y	31:45	1.03	11.0	J	-	-	*	
PCB-67	3.69e+05	0.81	y	32:03	0.95	50.8		-	-	*	
PCB-58	4.33e+04	0.77	y	32:09	1.11	5.11	J	-	-	*	
PCB-63	3.80e+05	0.80	y	32:18	1.02	48.9		-	-	*	
PCB-74	4.09e+06	0.77	y	32:36	0.99	541		-	-	*	
PCB-61	8.32e+06	0.80	y	32:47	0.95	1140		-	-	*	Co-elute PCB 70
PCB-70	8.32e+06	0.80	y	32:47	0.95	1140		-	-	*	Co-elute PCB 61
PCB-76	7.97e+06	0.77	y	32:59	1.06	981		-	-	*	Co-elute PCB 66
PCB-66	7.97e+06	0.77	y	32:59	1.06	981		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.20	*		1070	1290	2.39	
PCB-55	5.84e+05	0.77	y	33:29	1.04	73.3		-	-	*	
13C-PCB-54	7.64e+07	0.81	y	25:36	1.36	8600					86.0
PCB-104	1.25e+07	1.57	y	30:03	1.10	1830		-	-	*	
PCB-96	1.02e+05	1.35	y	31:15	1.03	15.9	J	-	-	*	
PCB-103	1.20e+05	1.40	y	31:45	0.81	23.7		-	-	*	
PCB-100	8.84e+04	1.39	y	32:06	0.81	17.4	J	-	-	*	
PCB-94	3.67e+04	1.44	y	32:32	0.67	8.83	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.68	*		316	392	1.65	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.68	*		316	392	1.65	Co-elute PCB 98
PCB-95	4.63e+06	1.53	y	33:02	0.78	957		-	-	*	
PCB-93	*	*	n	NotFnd	0.73	*		316	392	1.53	
PCB-88	*	*	n	NotFnd	0.76	*		316	392	1.48	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.76	*		316	392	1.48	Co-elute PCB 88
PCB-121	2.10e+07	1.55	y	33:29	0.94	3590		-	-	*	
13C-PCB-104	6.22e+07	1.58	y	30:02	1.05	9130					91.3
13C-PCB-28	1.14e+08	1.05	y	26:41	1.82	9630					96.3
13C-PCB-52	6.52e+07	0.80	y	28:56	-	80.3					

PCB-56	6.18e+06	0.78	y	33:58	1.14	768		-	-	*	Co-elute PCB 60
PCB-60	6.18e+06	0.78	y	33:58	1.14	768		-	-	*	Co-elute PCB 56
PCB-79	9.92e+04	0.87	y	34:57	1.22	11.5	J	-	-	*	
PCB-78	1.34e+07	0.79	y	35:39	1.17	1630		-	-	*	
PCB-81	3.00e+05	0.79	y	36:09	1.29	32.5		-	-	*	
13C-PCB-81	7.16e+07	0.81	y	36:07	1.32	10400					104
PCB-77	5.01e+05	0.72	y	36:42	1.11	64.9		-	-	*	
13C-PCB-77	6.94e+07	0.85	y	36:41	1.39	9570					95.7
PCB-155	2.15e+07	1.24	y	34:12	1.03	3030		-	-	*	
PCB-150	*	*	n	NotFnd	0.96	*		492	428	1.34	
PCB-152	*	*	n	NotFnd	0.95	*		492	428	1.36	
PCB-145	*	*	n	NotFnd	0.90	*		492	428	1.45	
PCB-136	8.57e+05	1.21	y	36:35	0.97	128		-	-	*	
PCB-148	*	*	n	NotFnd	0.60	*		492	428	2.17	
PCB-154	1.42e+05	1.24	y	37:07	0.78	26.3		-	-	*	
13C-PCB-155	6.88e+07	1.29	y	34:10	1.43	9200					92.0
13C-PCB-111	6.20e+07	1.59	y	36:16	1.12	10600					106
13C-PCB-101	5.23e+07	1.60	y	34:37	-	83.6					
PCB-84	2.30e+06	1.58	y	34:18	0.86	434		-	-	*	Co-elute PCB 92
PCB-92	2.30e+06	1.58	y	34:18	0.86	434		-	-	*	Co-elute PCB 84
PCB-89	1.11e+05	1.45	y	34:28	0.88	20.2		-	-	*	
PCB-90	5.03e+06	1.65	y	34:38	0.89	909		-	-	*	Co-elute PCB 101
PCB-101	5.03e+06	1.65	y	34:38	0.89	909		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.06	*		1510	1220	4.62	
PCB-99	2.31e+06	1.58	y	34:57	0.97	384		-	-	*	
PCB-119	1.73e+05	1.45	y	35:24	1.07	26.0		-	-	*	
PCB-83	2.36e+05	1.59	y	35:33	0.87	43.4		-	-	*	Co-elute PCB 112
PCB-112	2.36e+05	1.59	y	35:33	0.87	43.4		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.01	*		1510	1220	4.82	
PCB-97	1.14e+06	1.49	y	35:53	0.68	269		-	-	*	
PCB-86	6.51e+04	1.52	y	36:00	0.77	13.6	J	-	-	*	
PCB-125	1.72e+06	1.54	y	36:09	0.90	309		-	-	*	Co-elute PCB 87/117
PCB-87	1.72e+06	1.54	y	36:09	0.90	309		-	-	*	Co-elute PCB 125/117
PCB-117	1.72e+06	1.54	y	36:09	0.90	309		-	-	*	Co-elute PCB 125/87
PCB-111	1.11e+05	1.53	y	36:18	1.04	17.3	J	-	-	*	Co-elute PCB 115
PCB-115	1.11e+05	1.53	y	36:18	1.04	17.3	J	-	-	*	Co-elute PCB 111
PCB-85	6.76e+05	1.71	y	36:25	0.85	127		-	-	*	Co-elute PCB 116
PCB-116	6.76e+05	1.71	y	36:25	0.85	127		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.04	*		1510	1220	4.71	
PCB-110	5.06e+06	1.55	y	36:46	0.99	824		-	-	*	
PCB-82	3.90e+05	1.44	y	37:23	0.57	110		-	-	*	
PCB-124	1.45e+05	1.36	y	38:02	1.12	20.7		-	-	*	
PCB-108	2.27e+05	1.62	y	38:10	1.10	33.1		-	-	*	Co-elute PCB 107
PCB-107	2.27e+05	1.62	y	38:10	1.10	33.1		-	-	*	Co-elute PCB 108
PCB-123	6.15e+04	1.56	y	38:20	1.03	10.0	J	-	-	*	
13C-PCB-123	5.95e+07	1.60	y	38:18	1.30	9990					99.9
PCB-118	2.97e+06	1.61	y	38:30	1.06	424		-	-	*	Co-elute PCB 106
PCB-106	2.97e+06	1.61	y	38:30	1.06	424		-	-	*	Co-elute PCB 118
13C-PCB-118	6.60e+07	1.59	y	38:28	1.44	10100					101
PCB-114	9.21e+04	1.59	y	39:08	1.19	12.1	J	-	-	*	
13C-PCB-114	6.42e+07	1.60	y	39:06	1.33	10500					105
PCB-122	4.79e+04	1.61	y	39:14	1.06	7.25	J	-	-	*	
PCB-105	1.01e+06	1.62	y	39:55	1.11	154		-	-	*	
13C-PCB-105	5.88e+07	1.60	y	39:55	1.36	9420					94.2

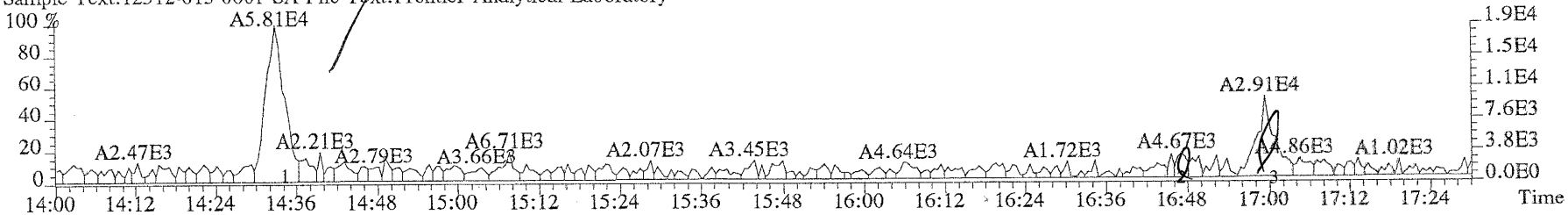
PCB-127	*	*	n	NotFnd	1.03	*		780	1190	3.43	
PCB-126	*	*	n	NotFnd	1.08	*		780	1190	3.57	
13C-PCB-126	5.96e+07	1.56	y	42:02	1.24	10500					105
PCB-151	8.94e+05	1.36	y	37:45	0.84	206		-	-	*	
PCB-135	4.37e+05	1.28	y	37:57	0.91	92.6		-	-	*	
PCB-144	1.88e+05	1.42	y	38:04	0.96	38.0		-	-	*	
PCB-147	6.34e+04	1.21	y	38:12	1.00	12.3	J	-	-	*	
PCB-139	2.93e+06	1.31	y	38:25	1.08	525		-	-	*	Co-elute PCB 149
PCB-149	2.93e+06	1.31	y	38:25	1.08	525		-	-	*	Co-elute PCB 139
PCB-140	2.61e+04	1.16	y	38:36	1.01	5.00	J	-	-	*	
PCB-143	1.76e+05	1.41	y	39:03	0.84	40.3		-	-	*	Co-elute PCB 134
PCB-134	1.76e+05	1.41	y	39:03	0.84	40.3		-	-	*	Co-elute PCB 143
PCB-131	7.89e+04	1.29	y	39:18	0.86	17.8	J	-	-	*	Co-elute PCB 133
PCB-133	7.89e+04	1.29	y	39:18	0.86	17.8	J	-	-	*	Co-elute PCB 131
PCB-142	3.74e+07	1.28	y	39:27	0.83	8710		-	-	*	
PCB-165	6.07e+05	1.29	y	39:39	1.14	103		-	-	*	Co-elute PCB 146
PCB-146	6.07e+05	1.29	y	39:39	1.14	103		-	-	*	Co-elute PCB 165
PCB-161	7.86e+05	1.26	y	39:55	1.06	143		-	-	*	Co-elute PCB 132
PCB-132	7.86e+05	1.26	y	39:55	1.06	143		-	-	*	Co-elute PCB 161
PCB-153	3.12e+06	1.26	y	40:04	1.15	525		-	-	*	
PCB-168	*	*	n	NotFnd	1.23	*		660	640	2.20	
PCB-141	4.07e+05	1.16	y	40:45	0.90	87.4		-	-	*	
PCB-137	8.79e+04	1.27	y	41:08	0.84	20.1		-	-	*	
PCB-130	1.31e+05	1.37	y	41:13	0.89	28.5		-	-	*	
PCB-138	2.64e+06	1.22	y	41:34	1.15	441		-	-	*	Co-elute PCB 163/164
PCB-163	2.64e+06	1.22	y	41:34	1.15	441		-	-	*	Co-elute PCB 138/164
PCB-164	2.64e+06	1.22	y	41:34	1.15	441		-	-	*	Co-elute PCB 138/163
PCB-158	2.64e+05	1.22	y	41:47	1.23	41.3		-	-	*	Co-elute PCB 160
PCB-160	2.64e+05	1.22	y	41:47	1.23	41.3		-	-	*	Co-elute PCB 158
PCB-129	8.19e+04	1.27	y	42:02	0.81	19.6	J	-	-	*	
PCB-166	*	*	n	NotFnd	1.18	*		660	640	2.30	
PCB-159	7.51e+04	1.08	y	42:48	1.28	11.4	J	-	-	*	
PCB-128	2.94e+05	1.14	y	43:01	1.04	54.5		-	-	*	Co-elute PCB 162
PCB-162	2.94e+05	1.14	y	43:01	1.04	54.5		-	-	*	Co-elute PCB 128
PCB-167	8.89e+04	1.13	y	43:24	1.13	15.5	J	-	-	*	
13C-PCB-167	5.09e+07	1.28	y	43:23	1.10	10100					101
PCB-156	1.82e+05	1.17	y	44:39	1.20	30.7		-	-	*	
13C-PCB-156	4.92e+07	1.32	y	44:37	1.05	10200					102
PCB-157	5.72e+04	1.32	y	44:53	1.12	9.68	J	-	-	*	
13C-PCB-157	5.29e+07	1.31	y	44:52	1.13	10200					102
PCB-169	*	*	n	NotFnd	1.07	*		660	640	2.37	
13C-PCB-169	5.43e+07	1.27	y	46:44	1.06	11200					112

FAL ID: 12512-013-0001-SA Filename: 05AUG19Z Sam:11 Acquired: 5-AUG-19 19:19:42 ICal: DAILY209FAL4-8-5-19
Client ID: LDW-Y2-SC-ENR-CC-S010 ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 12511-9 GC Column: DB1MS Amount: 1.000

PCB-188	4.05e+04	1.14	y	39:42	1.08	6.25	J	-	-	*	
13C-PCB-188	6.01e+07	1.07	y	39:41	1.13	11600					116
PCB-184	2.17e+07	1.10	y	40:07	1.19	3330		-	-	*	
PCB-179	3.44e+05	1.19	y	40:51	1.08	57.8		-	-	*	
PCB-176	1.07e+05	1.14	y	41:18	1.07	18.2	J	-	-	*	
PCB-186	*	*	n	NotFnd	1.10	*		784	360	1.67	
PCB-178	9.45e+04	0.94	y	42:20	0.75	23.1		-	-	*	
PCB-175	*	*	n	NotFnd	0.74	*		784	360	2.46	
PCB-187	5.79e+05	1.16	y	42:48	0.85	123		-	-	*	Co-elute PCB 182
PCB-182	5.79e+05	1.16	y	42:48	0.85	123		-	-	*	Co-elute PCB 187
PCB-183	2.82e+05	1.04	y	43:06	0.82	62.4		-	-	*	
PCB-185	6.13e+04	1.10	y	43:44	0.75	14.9	J	-	-	*	
PCB-174	4.11e+05	1.12	y	44:06	0.78	96.3		-	-	*	
PCB-181	*	*	n	NotFnd	0.74	*		784	360	2.47	
PCB-177	2.19e+05	1.05	y	44:22	0.68	58.2		-	-	*	
PCB-171	1.02e+05	1.10	y	44:39	0.76	24.6		-	-	*	
PCB-173	*	*	n	NotFnd	0.67	*		784	360	2.74	
PCB-172	3.46e+05	1.19	y	45:23	0.70	89.9		-	-	*	
PCB-192	1.34e+07	1.07	y	45:36	0.92	2640		-	-	*	
PCB-180	6.95e+05	1.05	y	45:46	0.70	181		-	-	*	
PCB-193	6.20e+04	0.97	y	45:56	0.99	11.4	J	-	-	*	
PCB-191	*	*	n	NotFnd	0.96	*		784	360	1.91	
PCB-170	2.62e+05	1.14	y	47:03	0.69	69.3		-	-	*	
PCB-190	8.60e+04	0.90	y	47:13	0.95	16.5	J	-	-	*	
PCB-189	*	*	n	NotFnd	1.05	*		784	360	1.62	
13C-PCB-189	4.96e+07	1.07	y	48:24	0.96	11200					112
PCB-202	4.19e+04	0.93	y	44:48	1.02	11.0	J	-	-	*	
PCB-201	*	*	n	NotFnd	1.06	*		240	544	2.12	
PCB-204	2.90e+07	0.94	y	45:23	1.05	7440		-	-	*	
PCB-197	1.89e+05	0.92	y	45:39	1.06	47.8		-	-	*	
PCB-200	*	*	n	NotFnd	1.09	*		240	544	2.05	
PCB-198	*	*	n	NotFnd	0.78	*		240	544	2.87	
PCB-199	1.10e+05	0.98	y	47:41	0.75	39.7		-	-	*	
PCB-203	1.20e+05	0.89	y	47:54	0.86	37.5		-	-	*	Co-elute PCB 196
PCB-196	1.20e+05	0.89	y	47:54	0.86	37.5		-	-	*	Co-elute PCB 203
13C-PCB-202	3.72e+07	0.91	y	44:47	0.87	9310					93.1
13C-PCB-178	3.08e+07	1.07	y	42:19	0.71	9430					94.3
13C-PCB-138	4.58e+07	1.28	y	41:31	-	79.5					
PCB-195	3.98e+04	0.99	y	49:02	0.74	9.54	J	-	-	*	
PCB-194	1.10e+05	1.01	y	49:49	0.85	23.0		-	-	*	
PCB-205	*	*	n	NotFnd	1.07	*		1370	1140	2.85	
13C-PCB-205	5.64e+07	0.90	y	50:04	1.28	9440					94.4
PCB-208	*	*	n	NotFnd	1.06	*		988	932	2.75	
13C-PCB-208	5.15e+07	0.83	y	49:07	1.22	9070					90.7
PCB-207	1.46e+05	1.23	y	49:26	1.16	27.6		-	-	*	
PCB-206	3.21e+04	1.28	y	51:17	1.06	7.69	J	-	-	*	
13C-PCB-206	3.93e+07	0.81	y	51:15	0.91	9230					92.3
PCB-209	1.85e+05	1.13	y	52:27	1.12	34.4		-	-	*	
13C-PCB-209	4.77e+07	1.19	y	52:26	1.14	8980					89.8
13C-PCB-194	4.66e+07	0.92	y	49:48	-	88.4					

Analyst: b Date: 8/7/19

File:05AUG19Z #1-783 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-783 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
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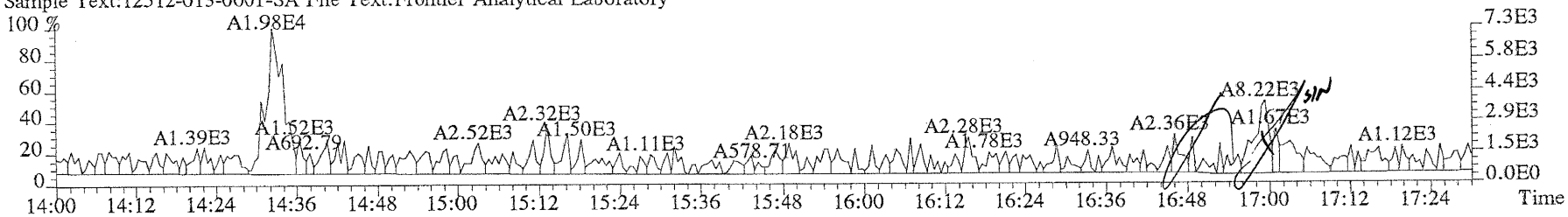

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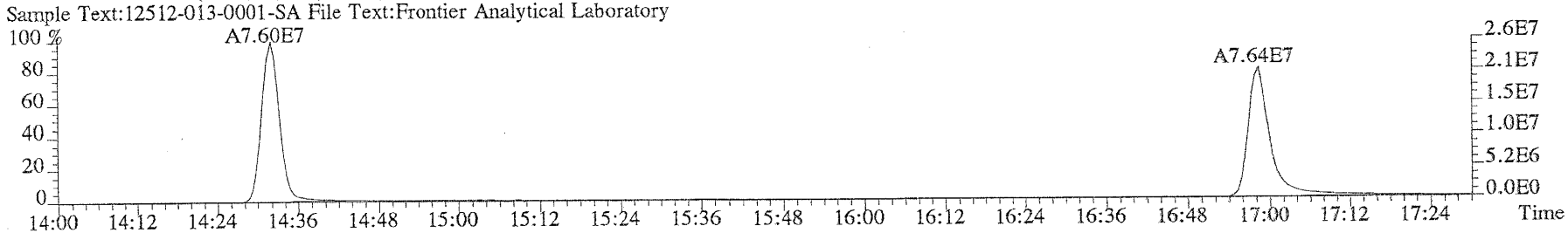

File:05AUG19Z #1-783 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
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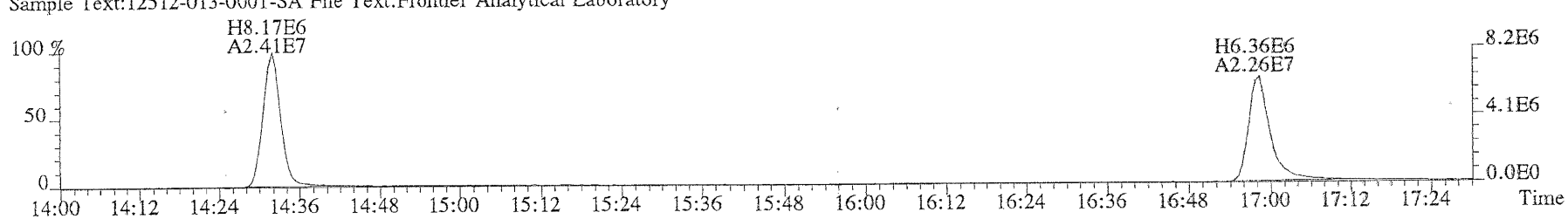
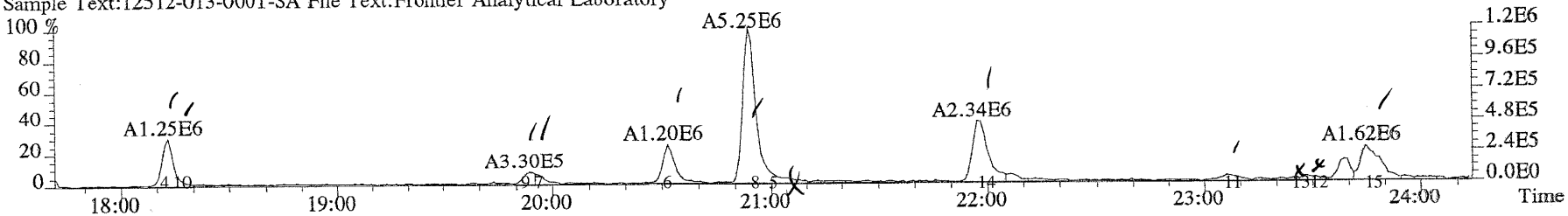


File:05AUG19Z #1-520 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-520 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
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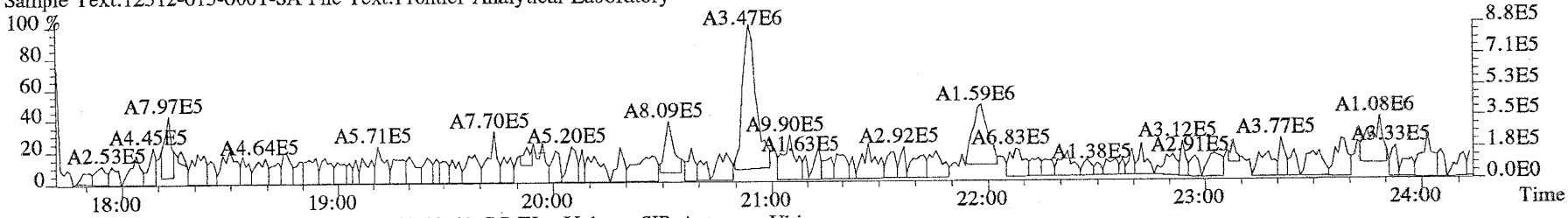
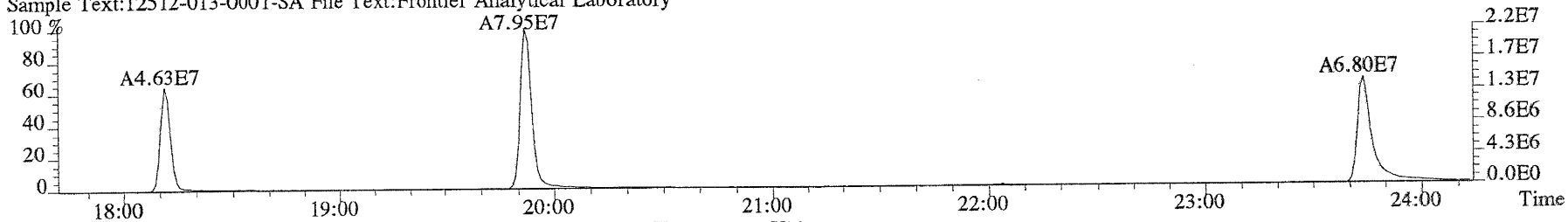
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-520 Acq: 5-AUG-2019 19:19:42 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:12512-013-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-520 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
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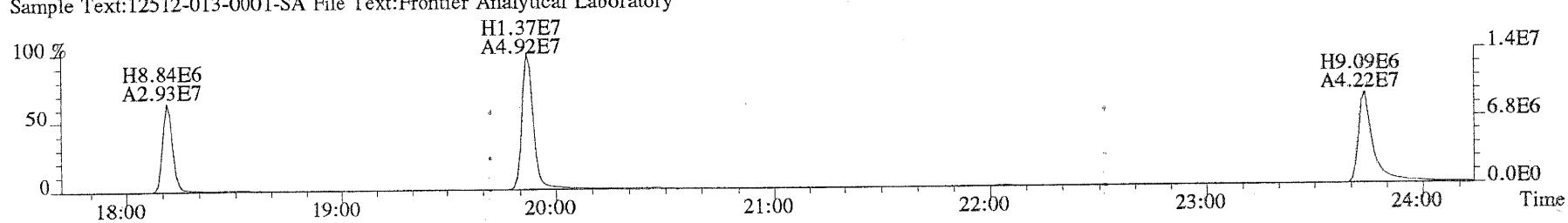
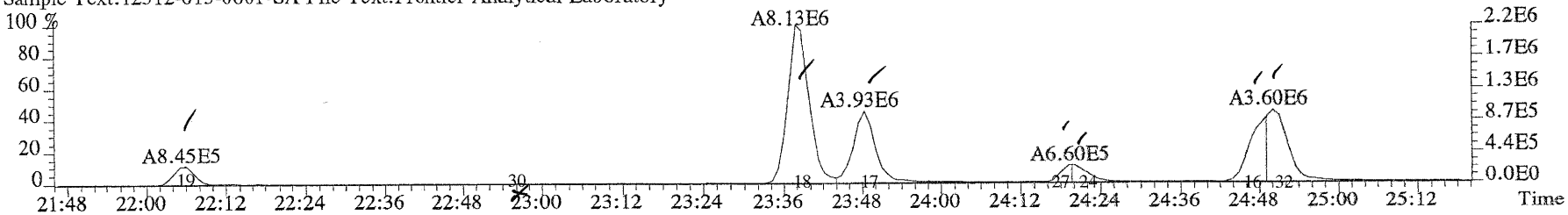
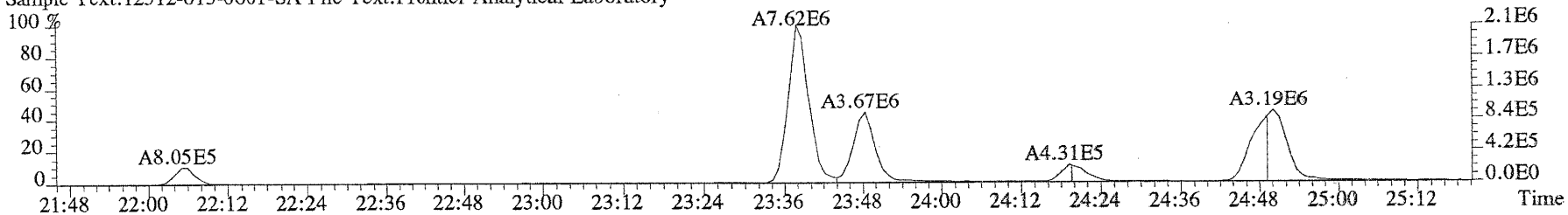


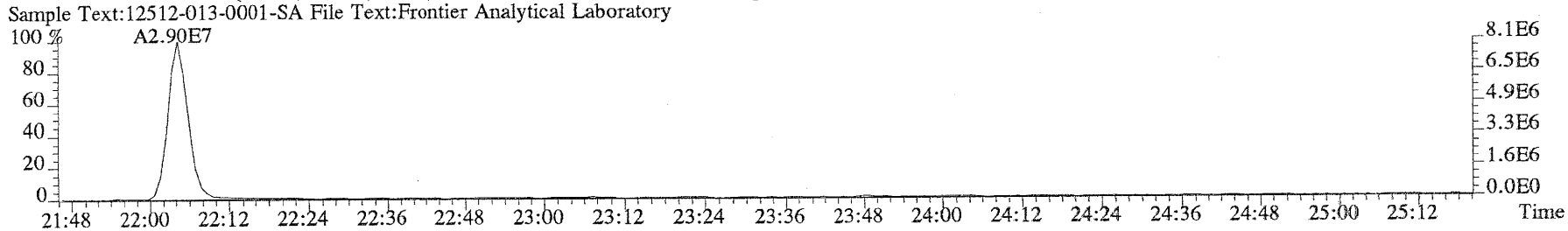
File:05AUG19Z #1-520 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



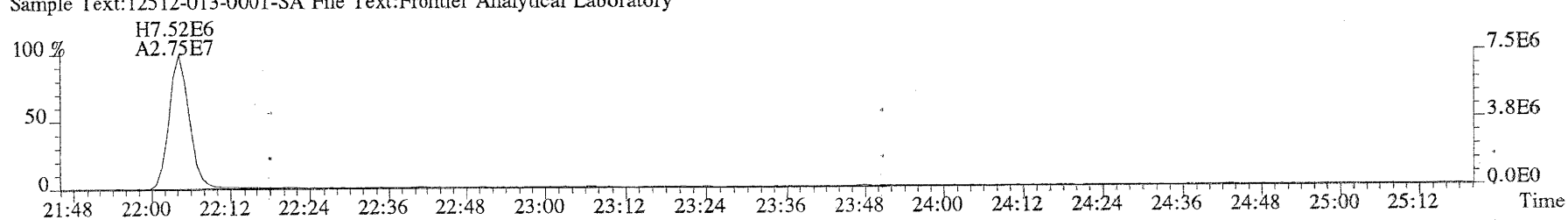
File:05AUG19Z #1-520 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



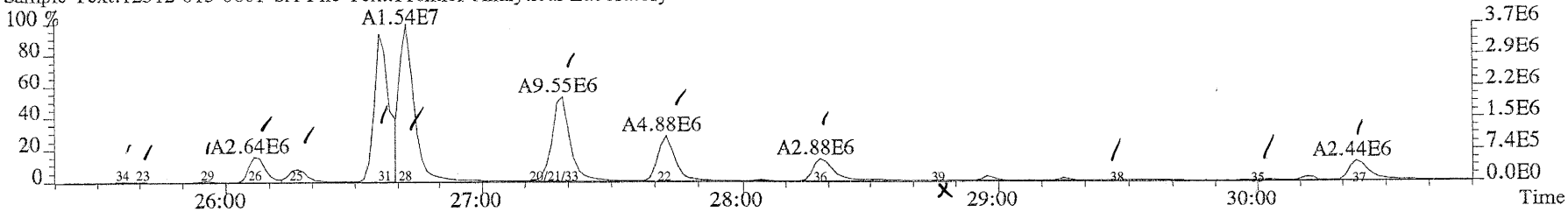
File:05AUG19Z #1-520 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



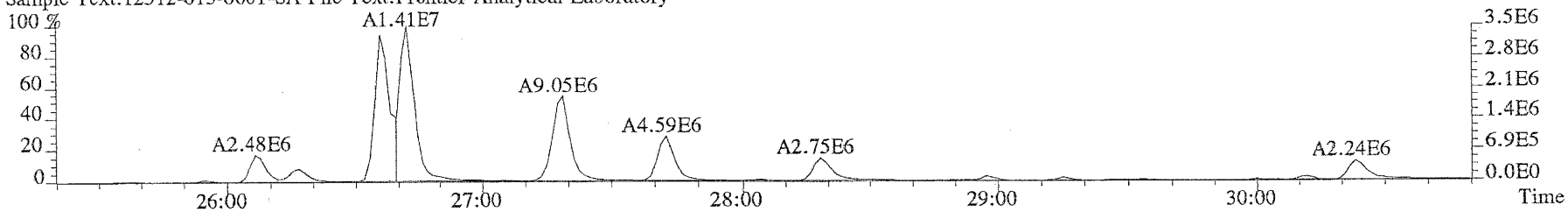
File:05AUG19Z #1-520 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



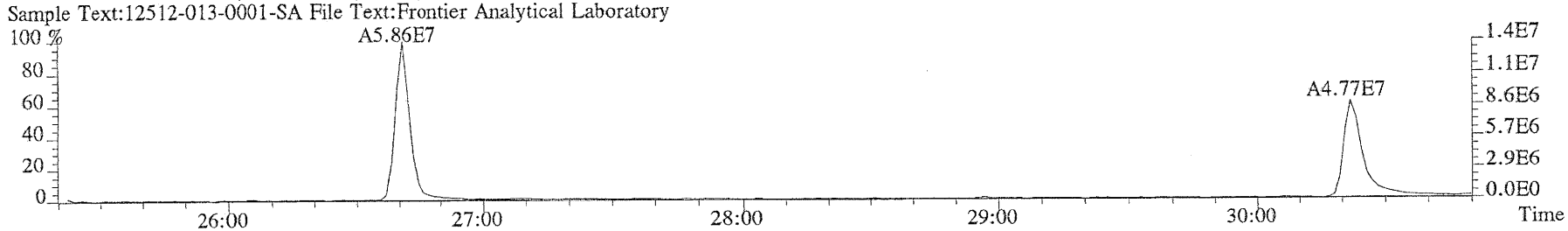
File:05AUG19Z #1-401 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 19:19:42 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:12512-013-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 19:19:42 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:12512-013-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
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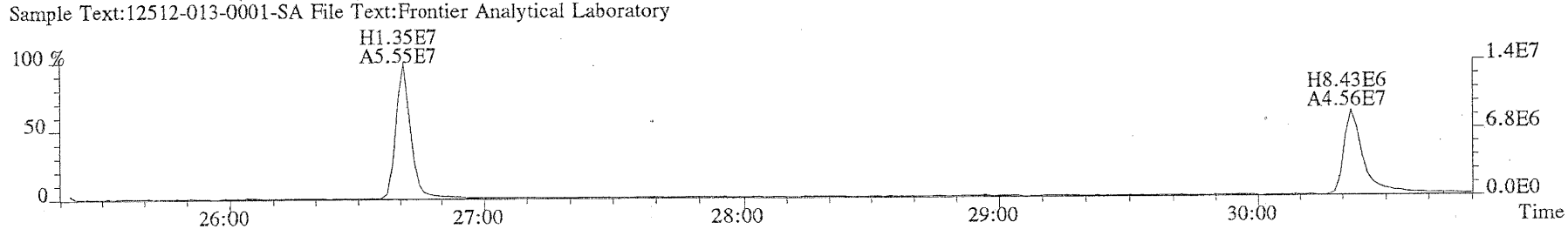
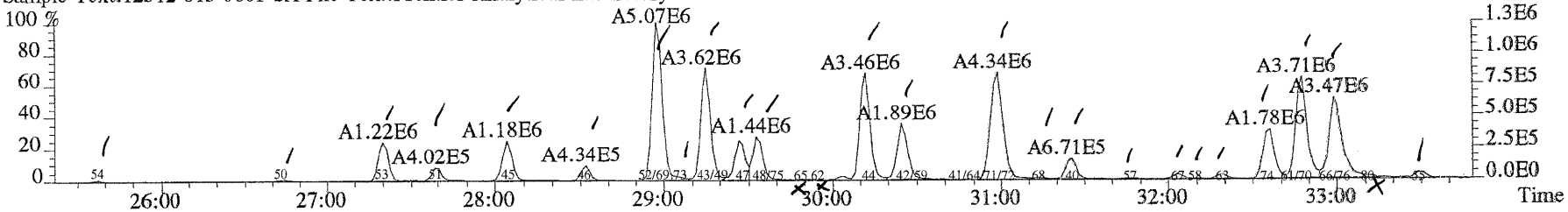
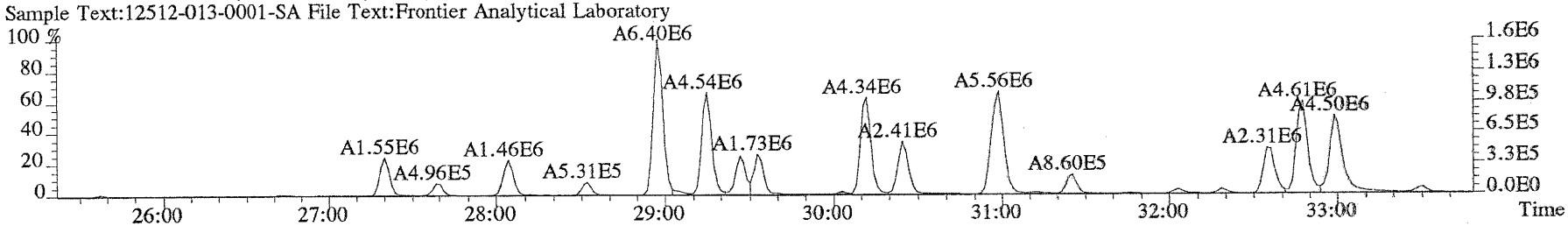
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



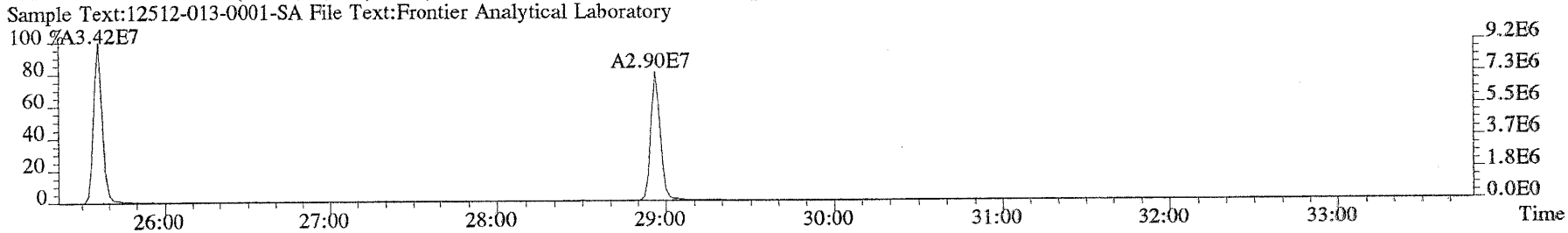
File:05AUG19Z #1-401 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



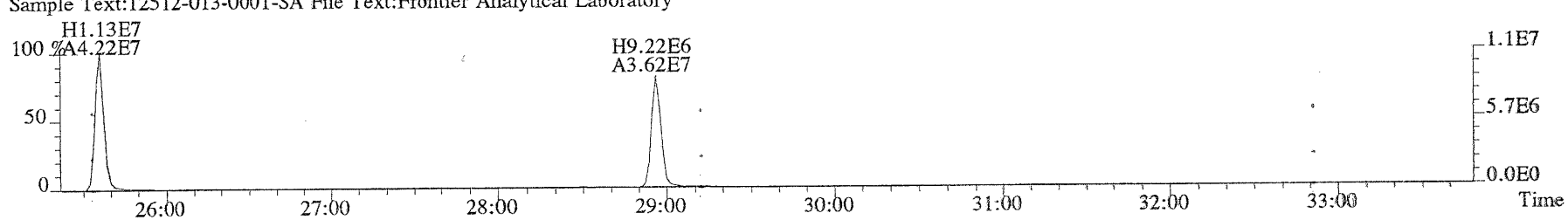
File:05AUG19Z #1-401 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



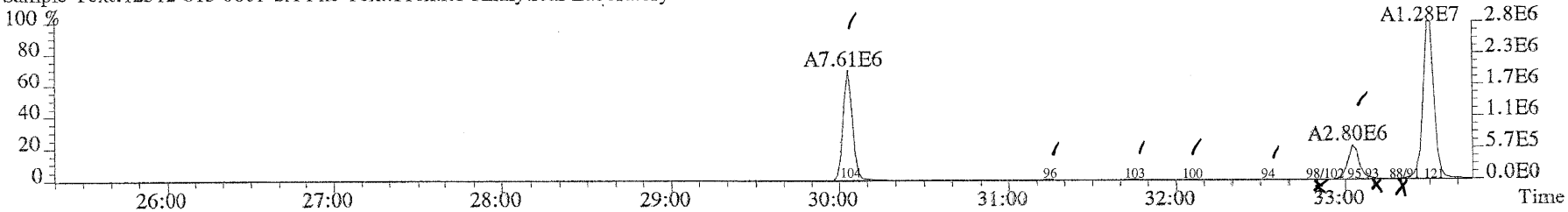
File:05AUG19Z #1-401 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



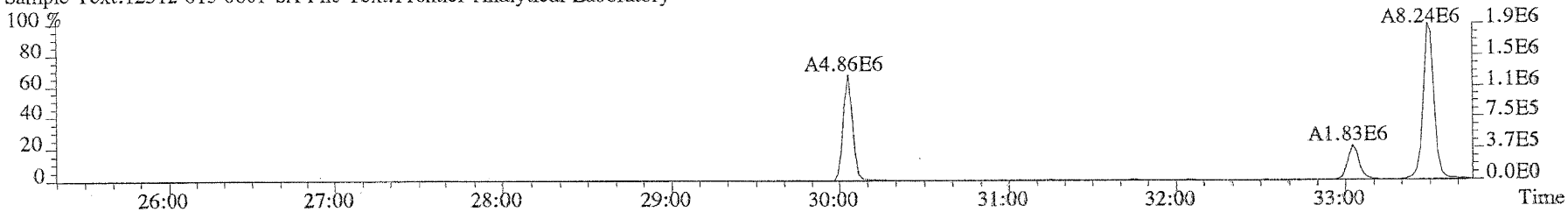
File:05AUG19Z #1-401 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



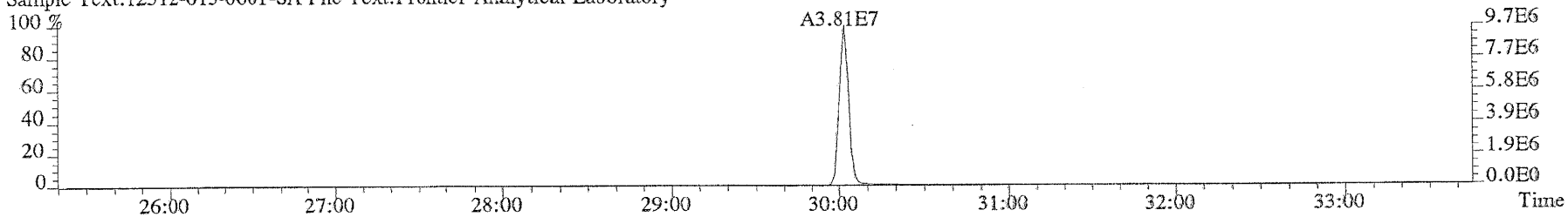
File:05AUG19Z #1-401 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



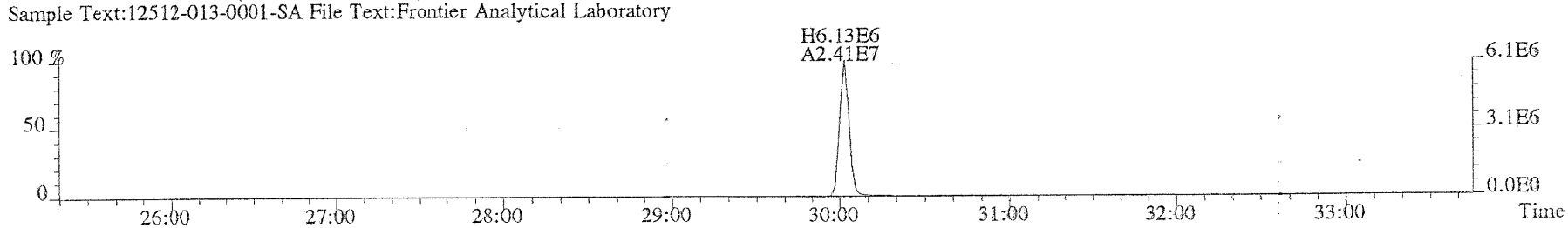
File:05AUG19Z #1-401 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



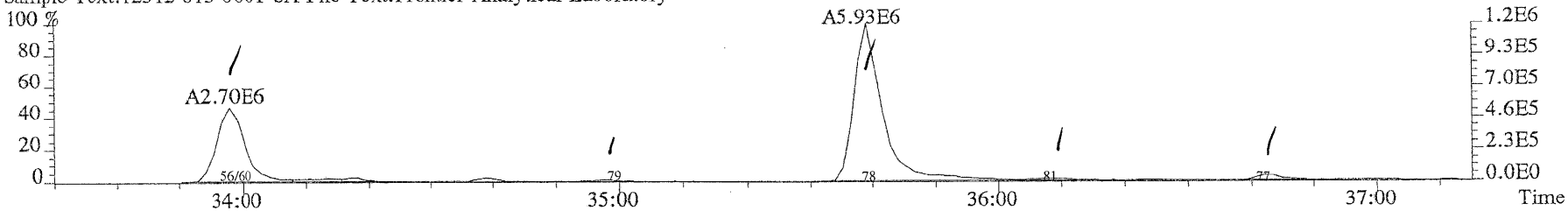
File:05AUG19Z #1-401 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



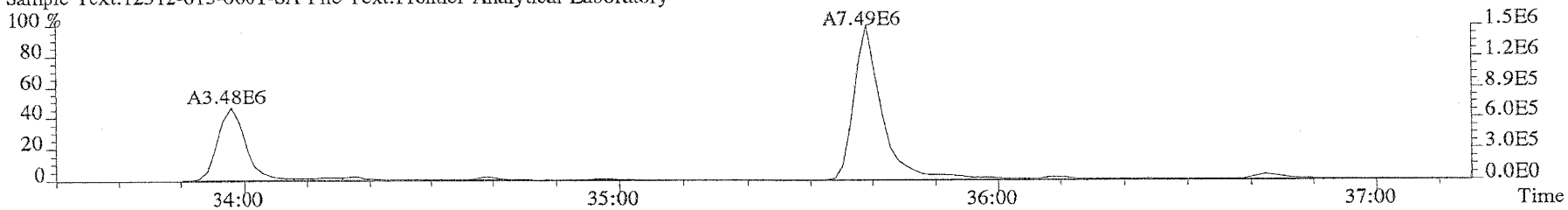
File:05AUG19Z #1-401 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



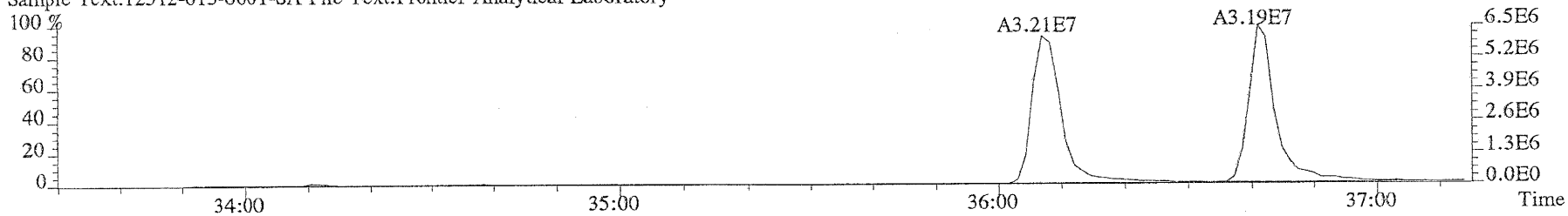
File:05AUG19Z #1-181 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



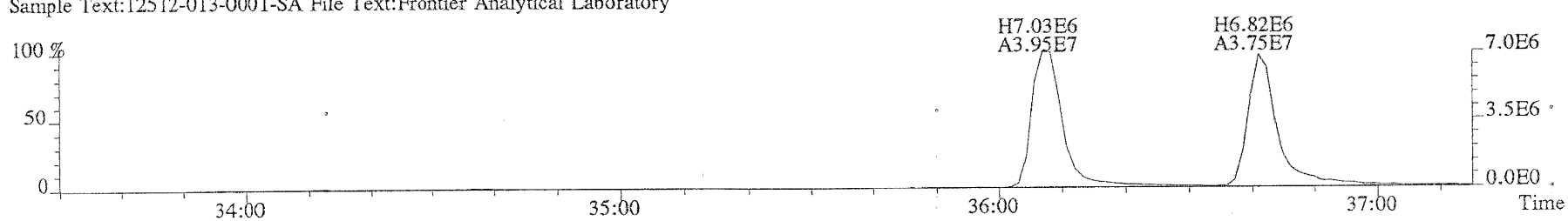
File:05AUG19Z #1-181 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



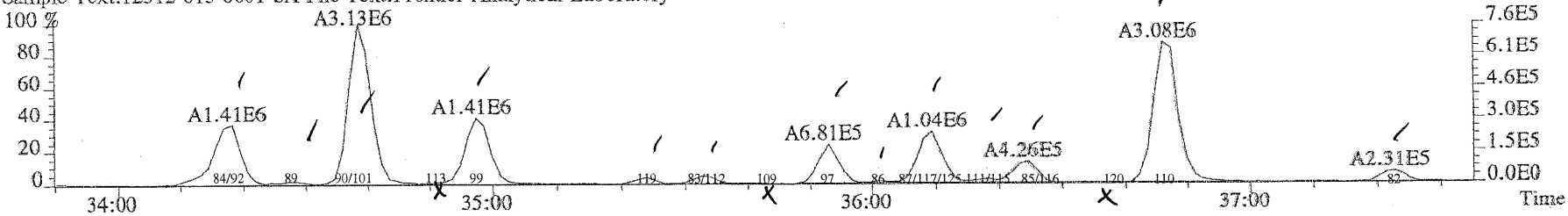
File:05AUG19Z #1-181 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



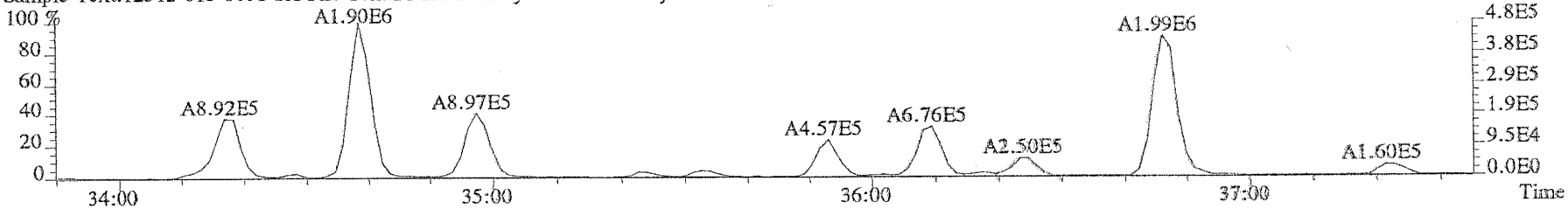
File:05AUG19Z #1-181 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



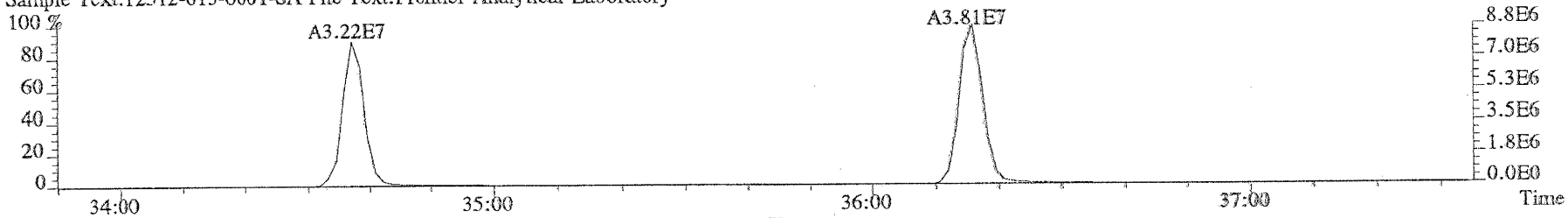
File:05AUG19Z #1-181 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



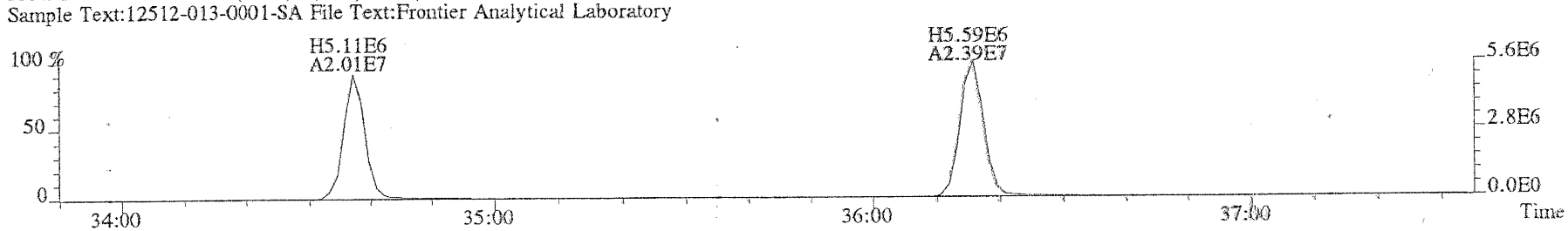
File:05AUG19Z #1-181 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



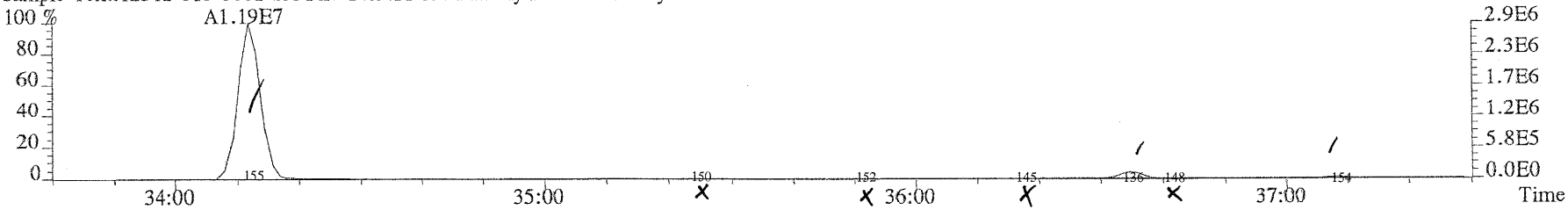
File:05AUG19Z #1-181 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



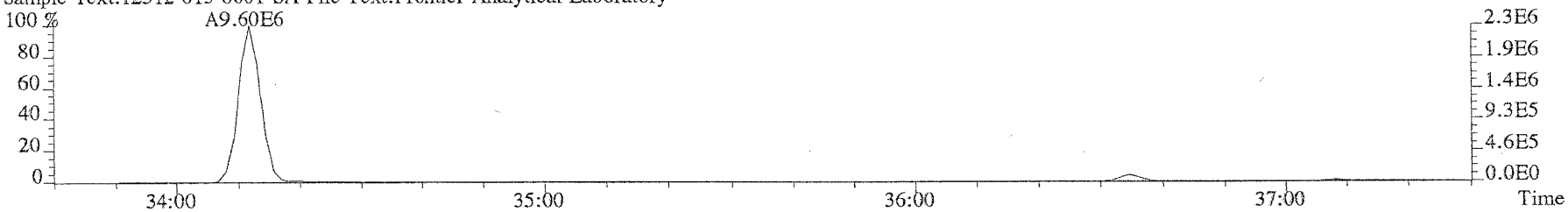
File:05AUG19Z #1-181 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



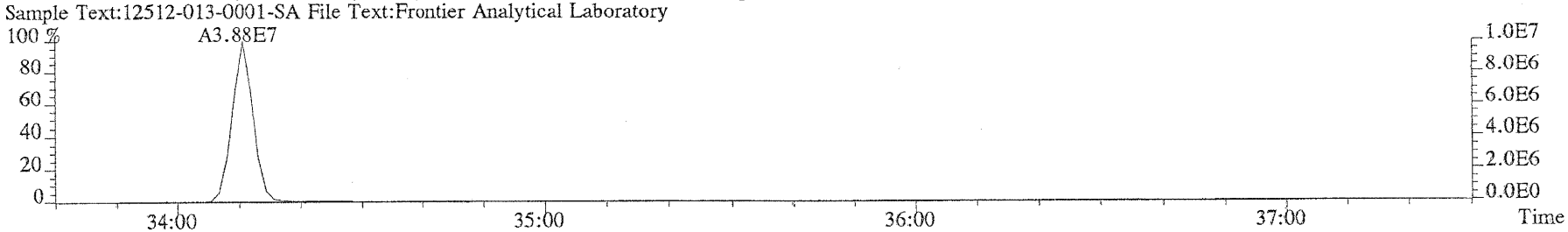
File:05AUG19Z #1-181 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



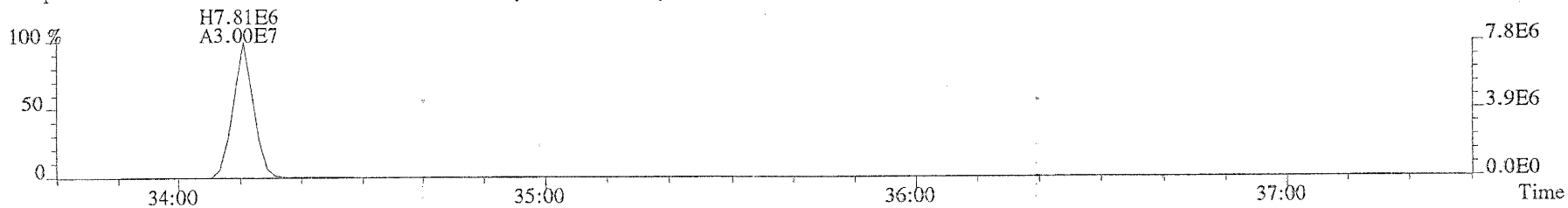
File:05AUG19Z #1-181 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



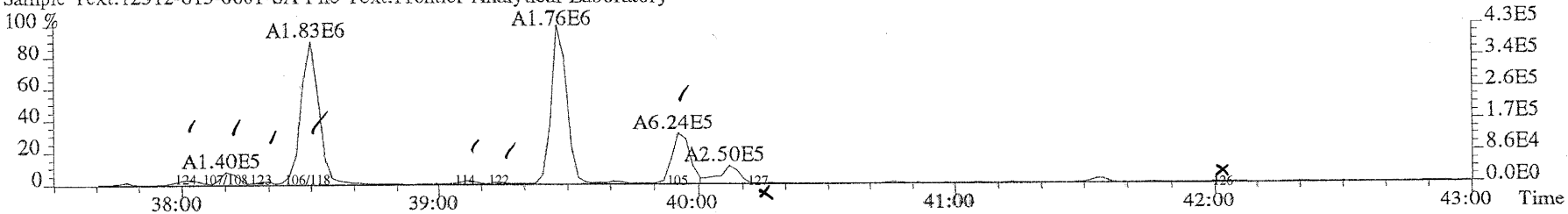
File:05AUG19Z #1-181 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



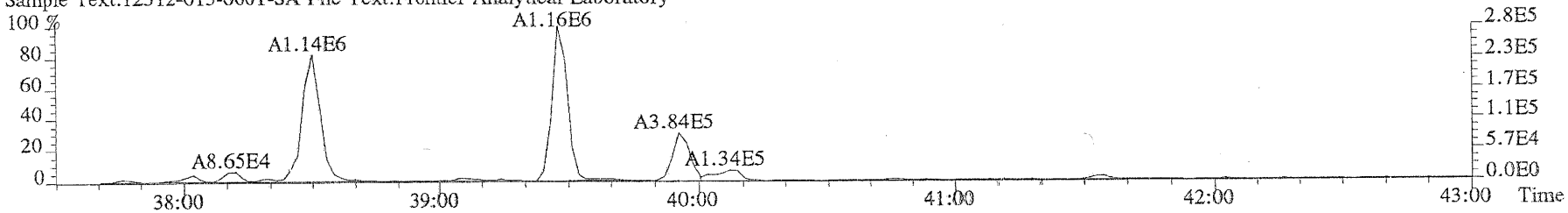
File:05AUG19Z #1-181 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



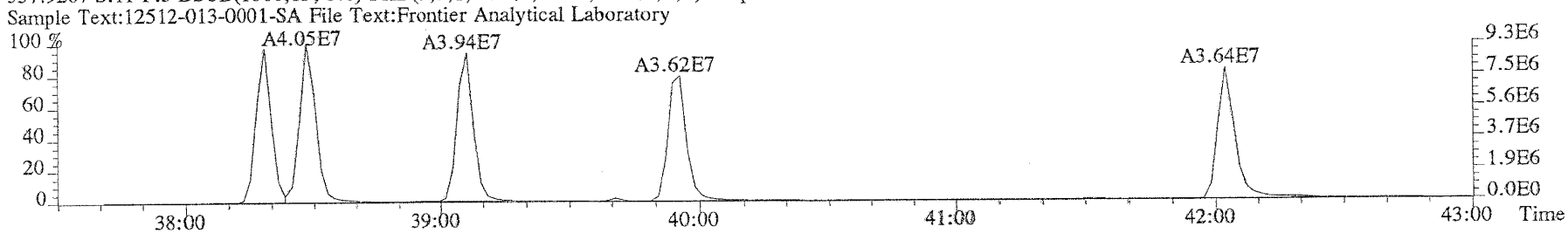
File:05AUG19Z #1-405 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



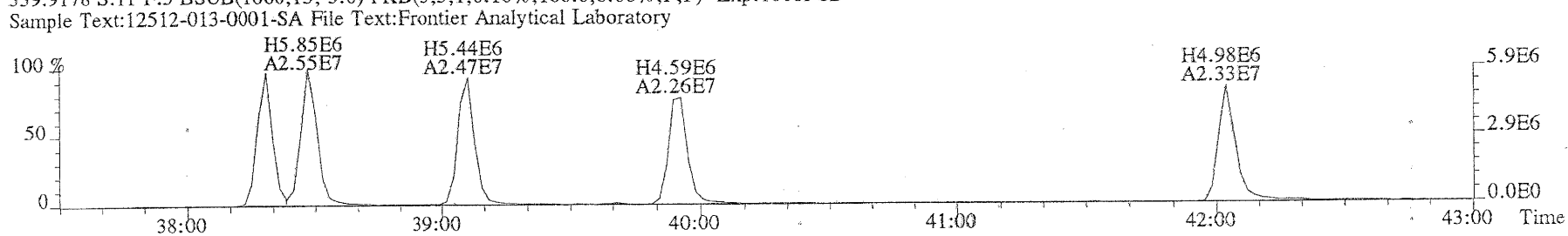
File:05AUG19Z #1-405 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



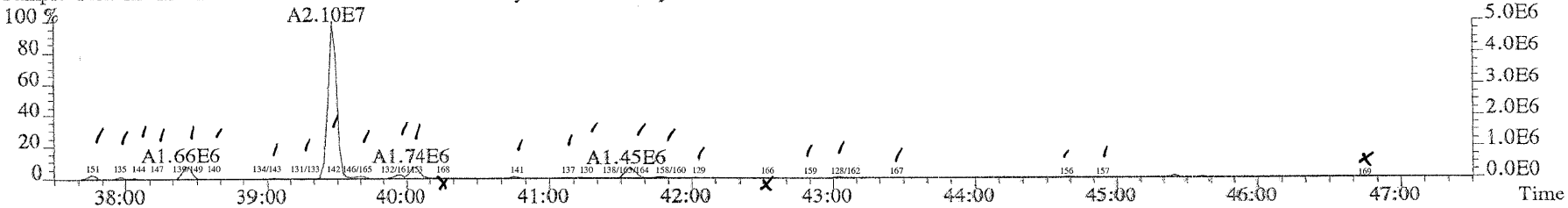
File:05AUG19Z #1-405 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-405 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 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:12512-013-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-405 Acq: 5-AUG-2019 19:19:42 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:12512-013-0001-SA File Text:Frontier Analytical Laboratory



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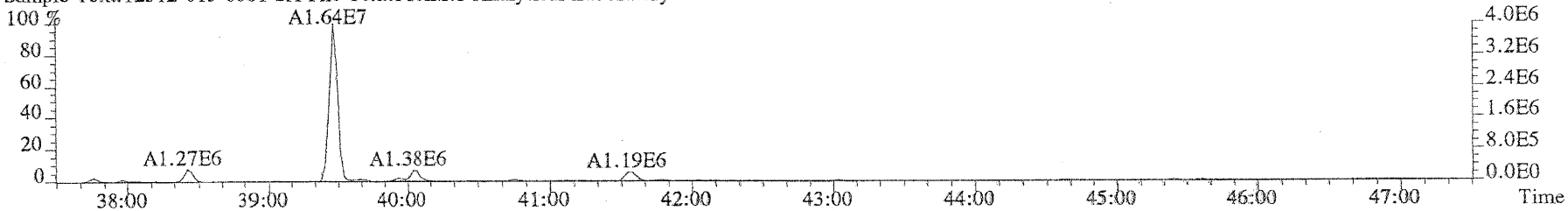
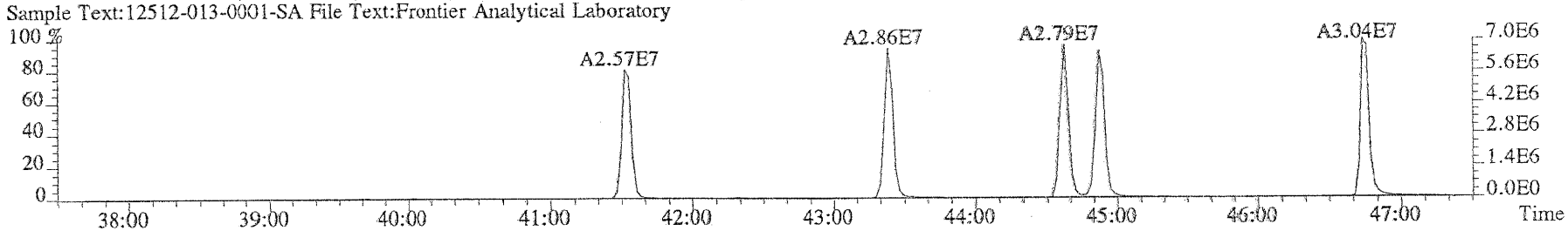
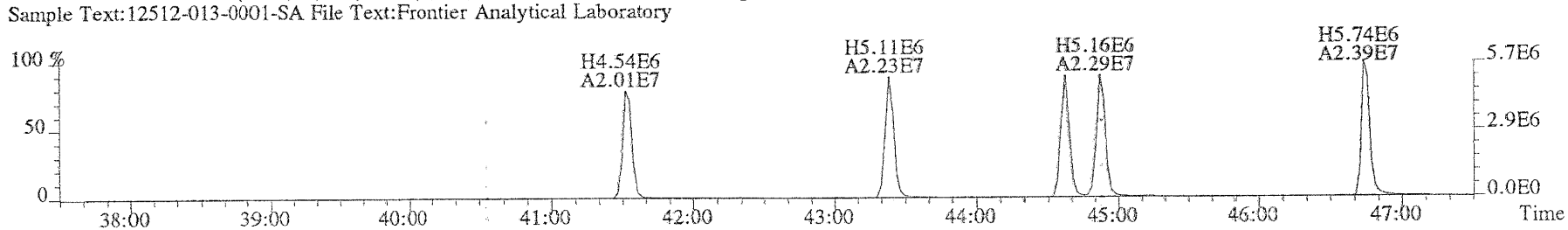
361.8385 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0:10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



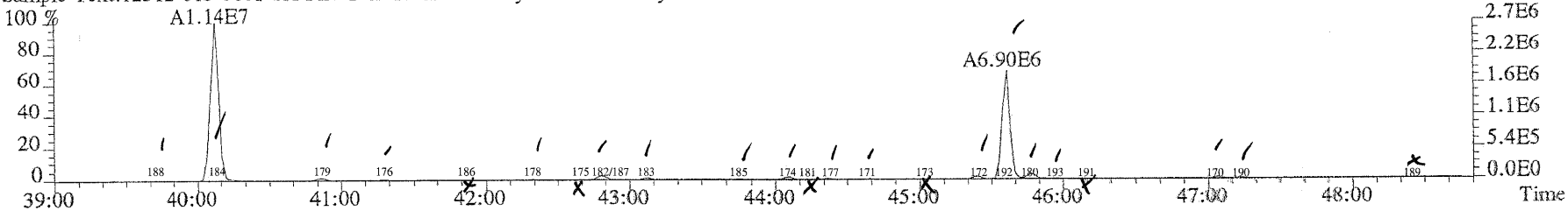
File:05AUG19Z #1-405 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



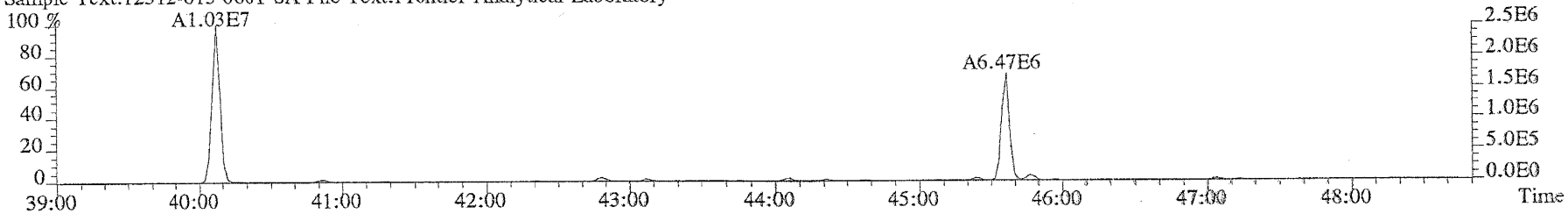
File:05AUG19Z #1-405 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



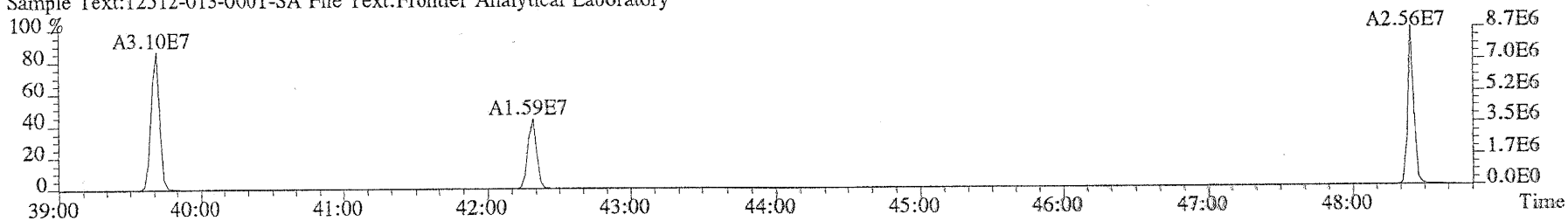
File:05AUG19Z #1-405 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



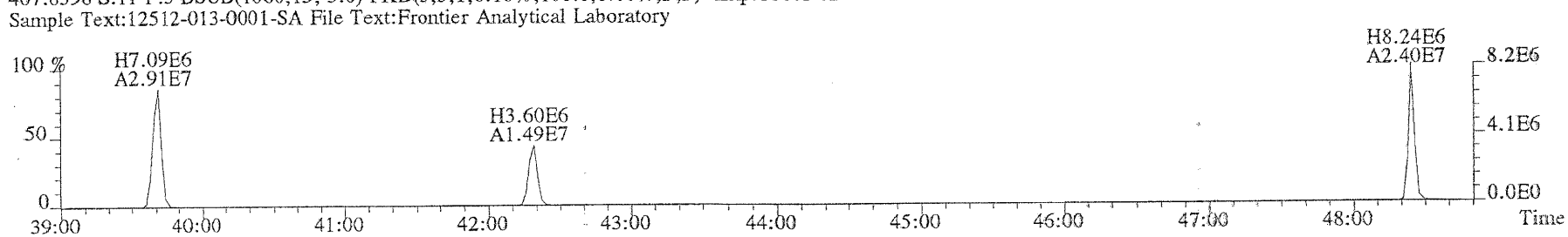
File:05AUG19Z #1-405 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



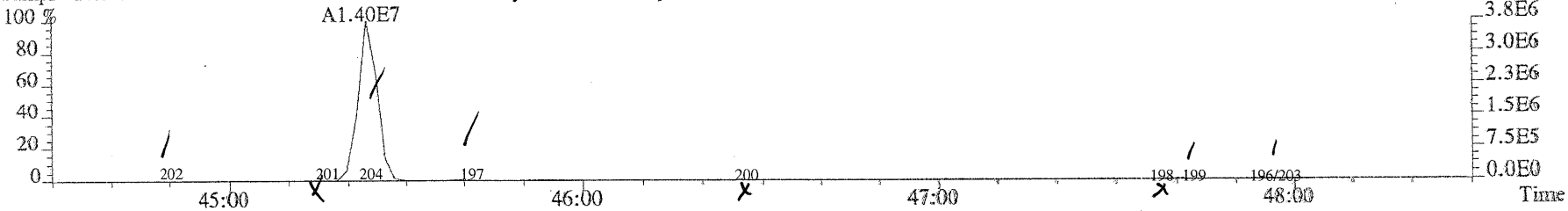
File:05AUG19Z #1-405 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



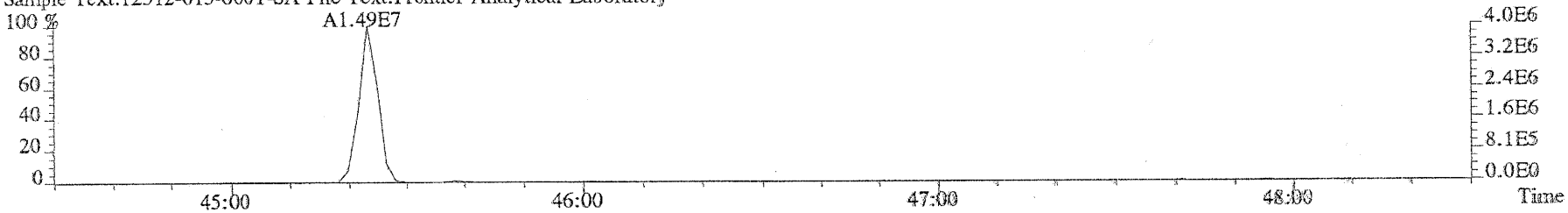
File:05AUG19Z #1-405 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



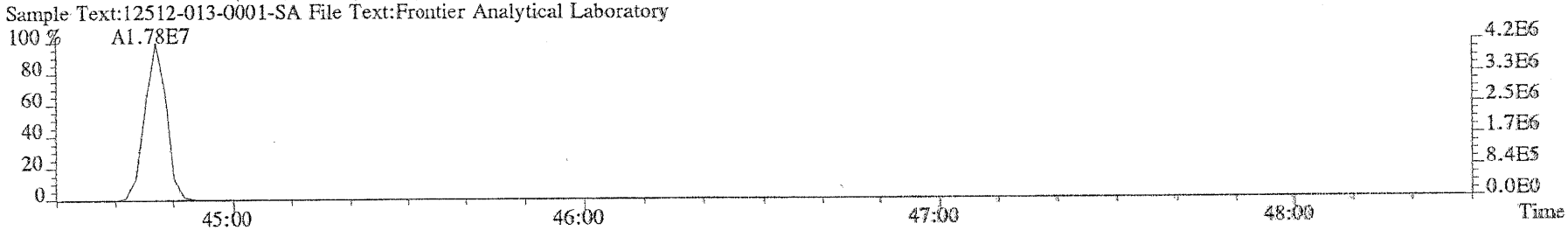
File:05AUG19Z #1-405 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



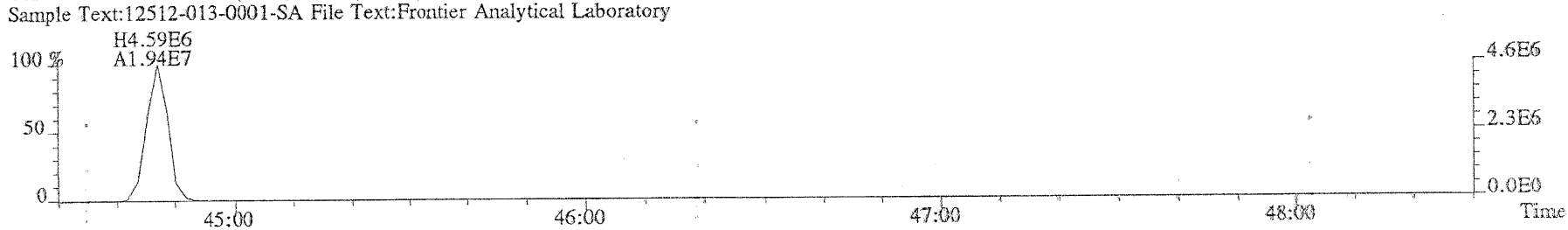
File:05AUG19Z #1-405 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



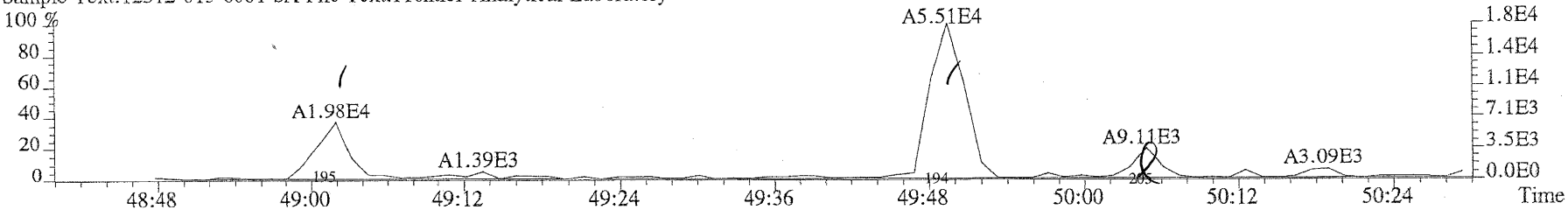
File:05AUG19Z #1-405 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



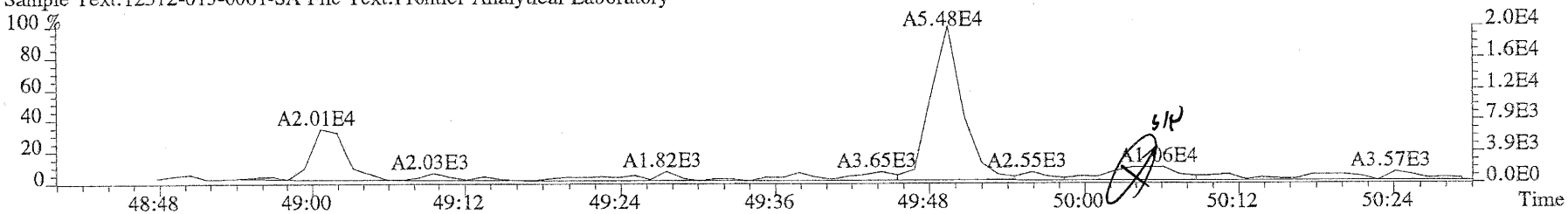
File:05AUG19Z #1-405 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



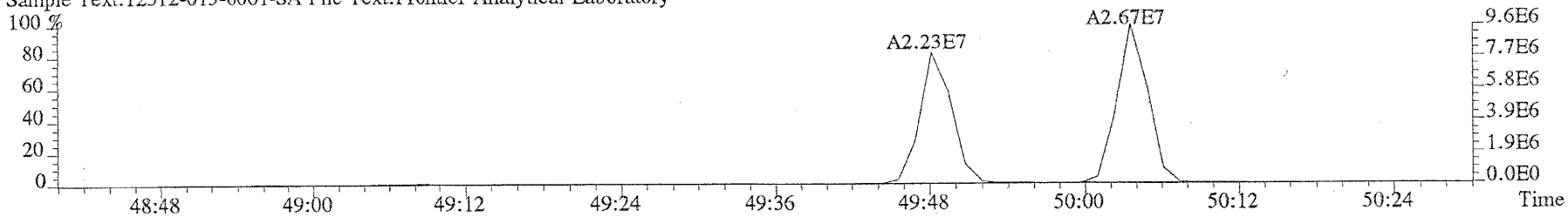
File:05AUG19Z #1-315 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



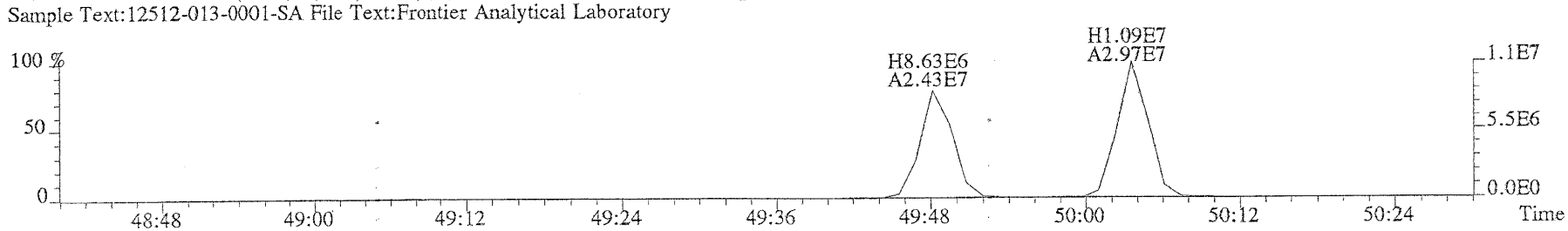
File:05AUG19Z #1-315 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



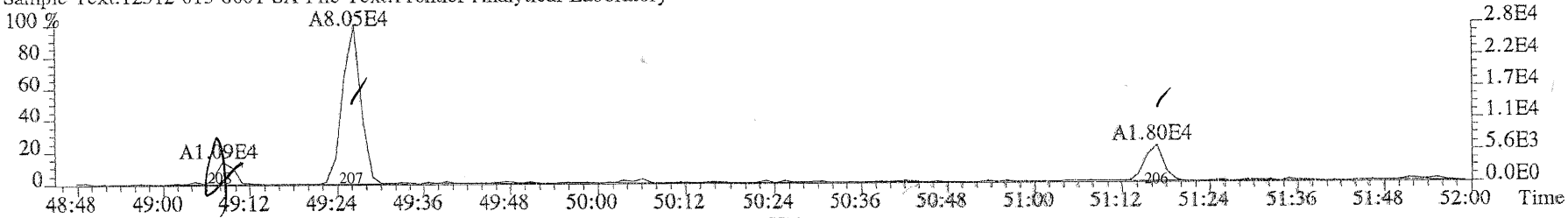
File:05AUG19Z #1-315 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



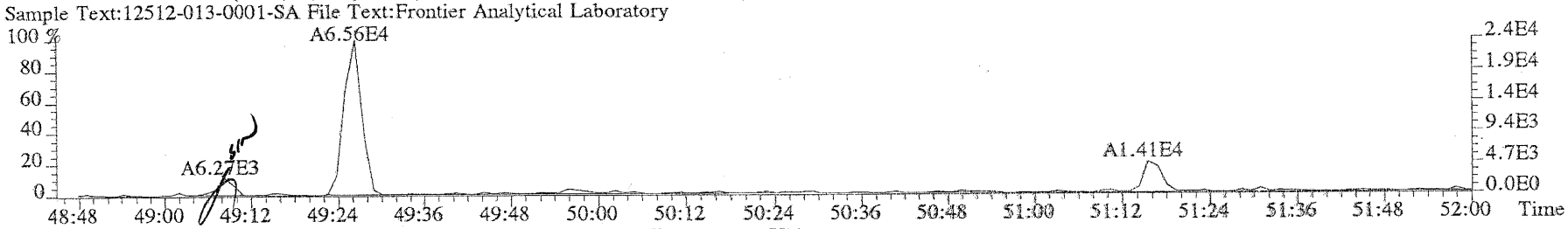
File:05AUG19Z #1-315 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



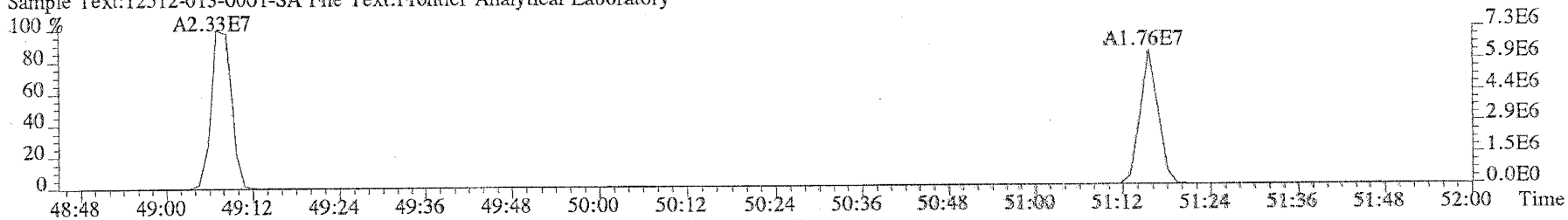
File:05AUG19Z #1-315 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



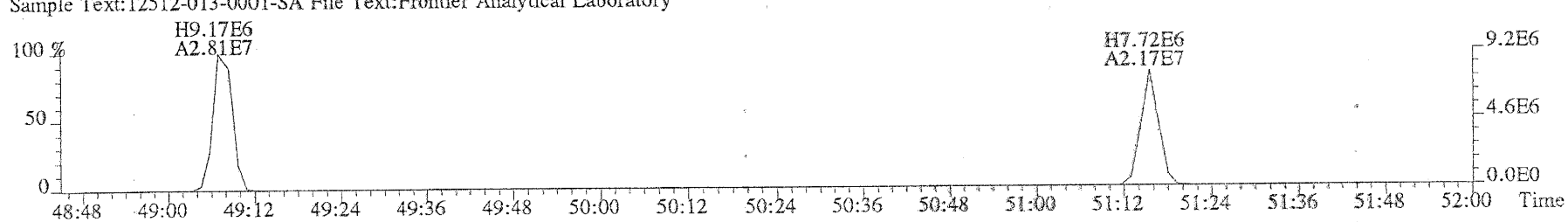
File:05AUG19Z #1-315 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



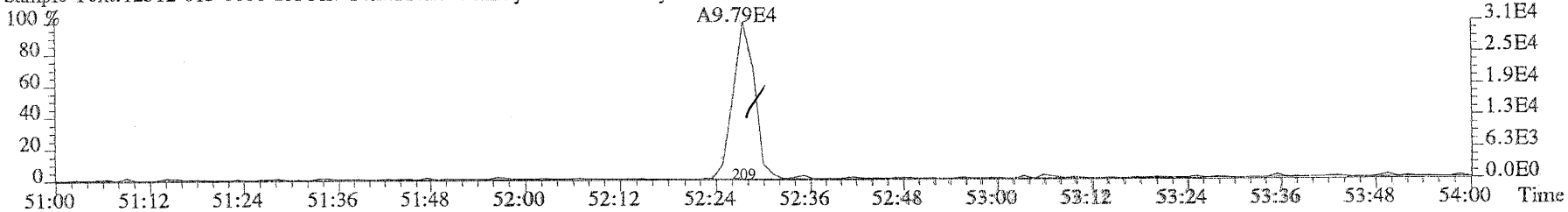
File:05AUG19Z #1-315 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



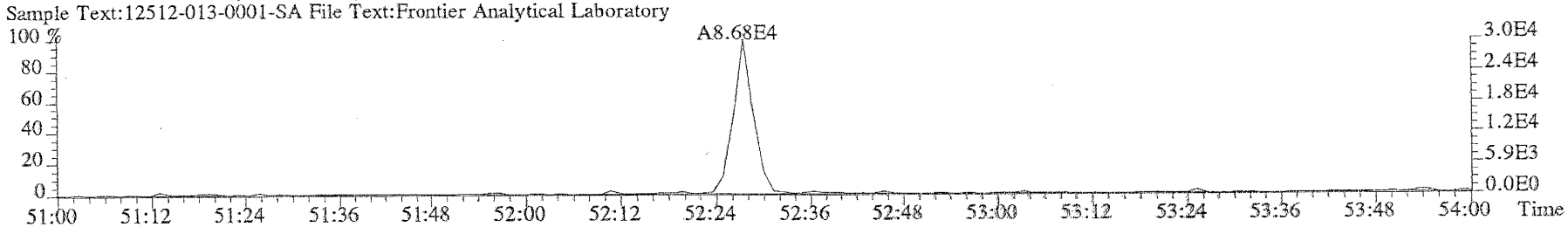
File:05AUG19Z #1-315 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



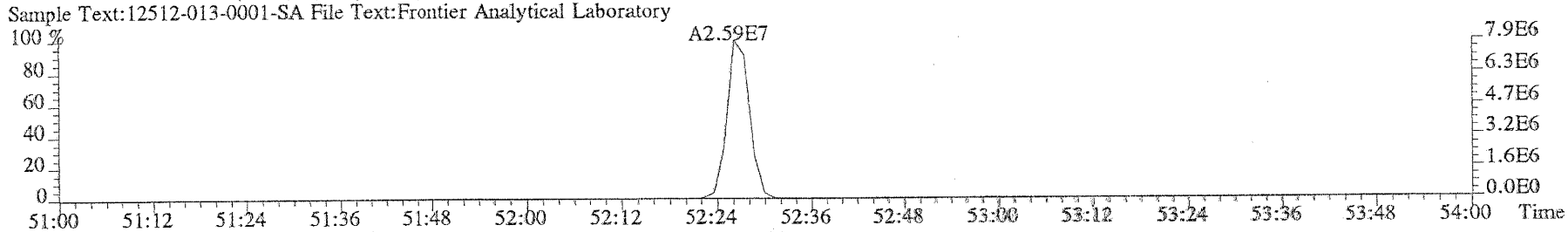
File:05AUG19Z #1-315 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



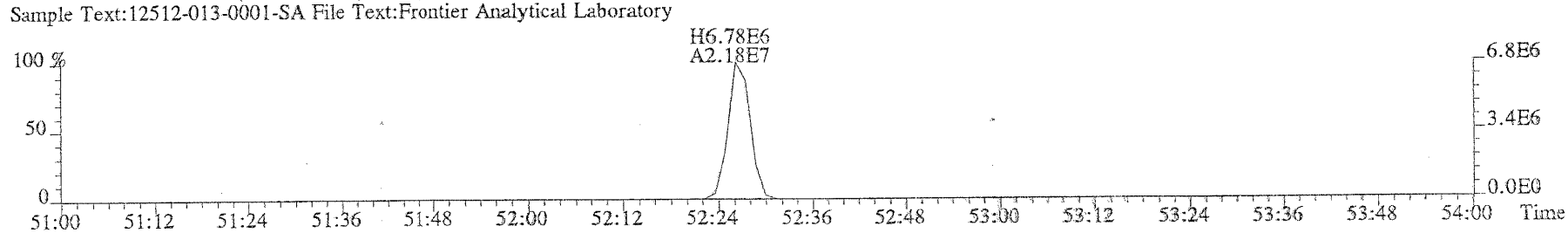
File:05AUG19Z #1-315 Acq: 5-AUG-2019 19:19:42 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-013-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 19:19:42 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:12512-013-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 19:19:42 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:12512-013-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12512-014-0001-SA Filename: 05AUG19Z Sam:12 Acquired: 5-AUG-19 20:18:03 ICal: DAILY209FAL4-8-5-19
Client ID: LDW-Y2-SC-ENR-CD-S010 ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 12512-12 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	
PCB-1	1.37e+05	2.85 y	14:33	1.19	9.23	J	-	-	*		
13C-PCB-1	1.25e+08	3.14 y	14:32	0.92	8670					86.7	
PCB-2	*	* n	NotFnd	1.17	*		1880	1410	1.87		
PCB-3	6.02e+04	2.86 y	16:59	1.22	4.15	J	-	-	*		
13C-PCB-3	1.18e+08	3.19 y	16:58	0.87	8680					86.8	
PCB-4	2.83e+06	1.44 y	18:13	1.25	251		-	-	*		
PCB-10	4.36e+05	1.45 y	18:16	1.30	29.9		-	-	*		
13C-PCB-4	9.04e+07	1.60 y	18:11	0.71	8050					80.5	
PCB-9	7.06e+05	1.60 y	19:54	1.37	46.1		-	-	*		
PCB-7	4.69e+05	1.39 y	19:56	1.36	30.7		-	-	*		
PCB-6	2.39e+06	1.45 y	20:31	1.59	134		-	-	*		
PCB-8	1.07e+07	1.53 y	20:54	1.33	716		-	-	*		
PCB-5	*	* n	NotFnd	1.34	*		1190	10600	7.78		
PCB-14	6.15e+06	1.45 y	21:57	1.30	422		-	-	*		
PCB-11	7.01e+05	1.46 y	23:06	1.18	53.2		-	-	*		
PCB-13	2.29e+05	1.56 y	23:27	1.24	16.5	J	-	-	*		
PCB-12	2.18e+05	1.45 y	23:29	1.25	15.6	J	-	-	*		
PCB-15	3.70e+06	1.37 y	23:45	1.12	248		-	-	*		
13C-PCB-15	1.34e+08	1.63 y	23:44	0.95	8910					89.1	
PCB-19	2.51e+06	1.08 y	22:05	1.19	308		-	-	*		
PCB-30	*	* n	NotFnd	1.71	*		1790	616	1.84		
PCB-18	1.74e+07	1.07 y	23:38	1.13	2250		-	-	*		
PCB-17	8.09e+06	1.04 y	23:48	1.27	927		-	-	*		
PCB-27	1.19e+06	1.04 y	24:19	1.58	109		-	-	*		
PCB-24	1.58e+06	1.04 y	24:20	1.67	138		-	-	*		
PCB-16	6.91e+06	1.00 y	24:49	1.24	815		-	-	*		
PCB-32	6.92e+06	1.11 y	24:50	1.60	631		-	-	*		
13C-PCB-19	6.86e+07	1.06 y	22:04	0.50	8680					86.8	
13C-PCB-9	1.57e+08	1.64 y	19:52	-	92.9						
PCB-34	1.43e+05	1.09 y	25:35	1.28	9.68	J	-	-	*		
PCB-23	6.13e+04	1.16 y	25:40	1.28	4.13	J	-	-	*		
PCB-29	2.39e+05	1.15 y	25:55	1.29	16.0	J	-	-	*		
PCB-26	4.93e+06	1.08 y	26:07	1.26	338		-	-	*		
PCB-25	2.93e+06	1.02 y	26:17	1.26	201		-	-	*		
PCB-31	2.54e+07	1.04 y	26:36	1.26	1750		-	-	*		
PCB-28	2.83e+07	1.05 y	26:42	1.55	1580		-	-	*		
PCB-20	1.63e+07	1.06 y	27:19	1.25	1130		-	-	*		Co-elute PCB 21/33
PCB-21	1.63e+07	1.06 y	27:19	1.25	1130		-	-	*		Co-elute PCB 20/33
PCB-33	1.63e+07	1.06 y	27:19	1.25	1130		-	-	*		Co-elute PCB 20/21
PCB-22	8.95e+06	1.03 y	27:43	1.38	563		-	-	*		
PCB-36	8.11e+06	1.03 y	28:18	1.23	573		-	-	*		
PCB-39	*	* n	NotFnd	1.23	*		1250	1060	2.23		
PCB-38	1.47e+05	1.11 y	29:26	1.26	10.1	J	-	-	*		
PCB-35	2.45e+05	1.10 y	30:03	1.11	19.1	J	-	-	*		
PCB-37	4.31e+06	1.04 y	30:23	1.16	322		-	-	*		
13C-PCB-37	1.15e+08	1.04 y	30:22	1.52	8780					87.8	

PCB-54	1.29e+05	0.87	y	25:37	1.23	11.5	J	-	-	*	
PCB-50	1.07e+05	0.85	y	26:43	0.93	12.5	J	-	-	*	
PCB-53	3.37e+06	0.80	y	27:20	0.91	407		-	-	*	
PCB-51	1.08e+06	0.76	y	27:39	0.92	128		-	-	*	
PCB-45	3.10e+06	0.77	y	28:04	0.78	438		-	-	*	
PCB-46	1.23e+06	0.75	y	28:32	0.74	182		-	-	*	
PCB-52	1.39e+07	0.81	y	28:57	0.89	1720		-	-	*	Co-elute PCB 69
PCB-69	1.39e+07	0.81	y	28:57	0.89	1720		-	-	*	Co-elute PCB 52
PCB-73	3.81e+05	0.76	y	29:04	1.15	36.4		-	-	*	
PCB-43	9.95e+06	0.80	y	29:15	0.79	1380		-	-	*	Co-elute PCB 49
PCB-49	9.95e+06	0.80	y	29:15	0.79	1380		-	-	*	Co-elute PCB 43
PCB-47	3.82e+06	0.79	y	29:26	0.87	480		-	-	*	
PCB-48	3.40e+06	0.79	y	29:33	1.00	373		-	-	*	Co-elute PCB 75
PCB-75	3.40e+06	0.79	y	29:33	1.00	373		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*		1050	1240	2.41	
PCB-62	*	*	n	NotFnd	1.07	*		1050	1240	2.26	
PCB-44	9.19e+06	0.80	y	30:12	0.68	1480		-	-	*	
PCB-42	5.08e+06	0.81	y	30:24	0.90	617		-	-	*	Co-elute PCB 59
PCB-59	5.08e+06	0.81	y	30:24	0.90	617		-	-	*	Co-elute PCB 42
PCB-72	1.14e+07	0.79	y	30:59	0.99	1270		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.14e+07	0.79	y	30:59	0.99	1270		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.14e+07	0.79	y	30:59	0.99	1270		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.14e+07	0.79	y	30:59	0.99	1270		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.98e+05	0.85	y	31:13	1.12	19.4	J	-	-	*	
PCB-40	1.77e+06	0.81	y	31:25	0.63	308		-	-	*	
PCB-57	8.91e+04	0.84	y	31:44	1.03	9.54	J	-	-	*	
PCB-67	4.24e+05	0.74	y	32:03	0.95	48.9		-	-	*	
PCB-58	6.08e+04	0.84	y	32:08	1.11	6.02	J	-	-	*	
PCB-63	4.21e+05	0.77	y	32:18	1.02	45.5		-	-	*	
PCB-74	4.83e+06	0.81	y	32:35	0.99	535		-	-	*	
PCB-61	1.01e+07	0.79	y	32:47	0.95	1160		-	-	*	Co-elute PCB 70
PCB-70	1.01e+07	0.79	y	32:47	0.95	1160		-	-	*	Co-elute PCB 61
PCB-76	1.00e+07	0.80	y	32:59	1.06	1030		-	-	*	Co-elute PCB 66
PCB-66	1.00e+07	0.80	y	32:59	1.06	1030		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.20	*		1050	1240	2.01	
PCB-55	8.05e+05	0.83	y	33:30	1.04	84.6		-	-	*	
13C-PCB-54	9.11e+07	0.81	y	25:36	1.36	7730					77.3
PCB-104	1.68e+07	1.56	y	30:03	1.10	1960		-	-	*	
PCB-96	1.33e+05	1.52	y	31:15	1.03	16.5	J	-	-	*	
PCB-103	1.88e+05	1.68	y	31:44	0.81	29.6		-	-	*	
PCB-100	1.28e+05	1.37	y	32:06	0.81	20.1		-	-	*	
PCB-94	4.77e+04	1.47	y	32:32	0.67	9.15	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.68	*		456	356	1.55	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.68	*		456	356	1.55	Co-elute PCB 98
PCB-95	7.18e+06	1.59	y	33:02	0.78	1180		-	-	*	
PCB-93	*	*	n	NotFnd	0.73	*		456	356	1.43	
PCB-88	*	*	n	NotFnd	0.76	*		456	356	1.39	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.76	*		456	356	1.39	Co-elute PCB 88
PCB-121	2.91e+07	1.56	y	33:29	0.94	3960		-	-	*	
13C-PCB-104	7.81e+07	1.57	y	30:02	1.05	8630					86.3
13C-PCB-28	1.40e+08	1.04	y	26:41	1.82	8890					88.9
13C-PCB-52	8.65e+07	0.79	y	28:56	-	107					

PCB-56	6.74e+06	0.80	y	33:58	1.14	681		-	-	*	Co-elute PCB 60
PCB-60	6.74e+06	0.80	y	33:58	1.14	681		-	-	*	Co-elute PCB 56
PCB-79	1.66e+05	0.77	y	34:57	1.22	15.6	J	-	-	*	
PCB-78	2.07e+07	0.79	y	35:39	1.17	2050		-	-	*	
PCB-81	3.32e+05	0.87	y	36:09	1.29	28.8		-	-	*	
13C-PCB-81	8.93e+07	0.78	y	36:07	1.32	9110					91.1
PCB-77	5.86e+05	0.80	y	36:42	1.11	62.7		-	-	*	
13C-PCB-77	8.39e+07	0.81	y	36:41	1.39	8160					81.6
PCB-155	3.11e+07	1.29	y	34:12	1.03	3700		-	-	*	
PCB-150	*	*	n	NotFnd	0.96	*		564	372	1.22	
PCB-152	*	*	n	NotFnd	0.95	*		564	372	1.24	
PCB-145	*	*	n	NotFnd	0.90	*		564	372	1.32	
PCB-136	1.44e+06	1.22	y	36:35	0.97	182		-	-	*	
PCB-148	*	*	n	NotFnd	0.60	*		564	372	1.98	
PCB-154	3.35e+05	1.36	y	37:07	0.78	52.3		-	-	*	
13C-PCB-155	8.15e+07	1.27	y	34:11	1.43	7690					76.9
13C-PCB-111	7.74e+07	1.61	y	36:16	1.12	9350					93.5
13C-PCB-101	7.41e+07	1.60	y	34:37	-	119					
PCB-84	3.62e+06	1.57	y	34:17	0.86	520		-	-	*	Co-elute PCB 92
PCB-92	3.62e+06	1.57	y	34:17	0.86	520		-	-	*	Co-elute PCB 84
PCB-89	1.47e+05	1.62	y	34:27	0.88	20.5		-	-	*	
PCB-90	8.12e+06	1.59	y	34:38	0.89	1120		-	-	*	Co-elute PCB 101
PCB-101	8.12e+06	1.59	y	34:38	0.89	1120		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.06	*		1040	1260	3.09	
PCB-99	3.74e+06	1.58	y	34:57	0.97	475		-	-	*	
PCB-119	2.99e+05	1.44	y	35:24	1.07	34.2		-	-	*	
PCB-83	3.51e+05	1.59	y	35:33	0.87	49.3		-	-	*	Co-elute PCB 112
PCB-112	3.51e+05	1.59	y	35:33	0.87	49.3		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.01	*		1040	1260	3.22	
PCB-97	1.92e+06	1.61	y	35:53	0.68	348		-	-	*	
PCB-86	8.17e+04	1.48	y	36:00	0.77	13.0	J	-	-	*	
PCB-125	2.76e+06	1.57	y	36:09	0.90	378		-	-	*	Co-elute PCB 87/117
PCB-87	2.76e+06	1.57	y	36:09	0.90	378		-	-	*	Co-elute PCB 125/117
PCB-117	2.76e+06	1.57	y	36:09	0.90	378		-	-	*	Co-elute PCB 125/87
PCB-111	1.91e+05	1.63	y	36:18	1.04	22.6		-	-	*	Co-elute PCB 115
PCB-115	1.91e+05	1.63	y	36:18	1.04	22.6		-	-	*	Co-elute PCB 111
PCB-85	1.12e+06	1.54	y	36:23	0.85	161		-	-	*	Co-elute PCB 116
PCB-116	1.12e+06	1.54	y	36:23	0.85	161		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.04	*		1040	1260	3.15	
PCB-110	8.30e+06	1.59	y	36:46	0.99	1030		-	-	*	
PCB-82	6.27e+05	1.60	y	37:21	0.57	135		-	-	*	
PCB-124	2.73e+05	1.40	y	38:02	1.12	29.9		-	-	*	
PCB-108	3.95e+05	1.62	y	38:10	1.10	44.0		-	-	*	Co-elute PCB 107
PCB-107	3.95e+05	1.62	y	38:10	1.10	44.0		-	-	*	Co-elute PCB 108
PCB-123	1.06e+05	1.42	y	38:20	1.03	13.0	J	-	-	*	
13C-PCB-123	7.85e+07	1.58	y	38:18	1.30	9300					93.0
PCB-118	5.28e+06	1.56	y	38:30	1.06	582		-	-	*	Co-elute PCB 106
PCB-106	5.28e+06	1.56	y	38:30	1.06	582		-	-	*	Co-elute PCB 118
13C-PCB-118	8.57e+07	1.62	y	38:28	1.44	9220					92.2
PCB-114	1.59e+05	1.47	y	39:08	1.19	16.0	J	-	-	*	
13C-PCB-114	8.32e+07	1.63	y	39:06	1.33	9640					96.4
PCB-122	8.59e+04	1.42	y	39:14	1.06	9.93	J	-	-	*	
PCB-105	1.80e+06	1.59	y	39:55	1.11	207		-	-	*	
13C-PCB-105	7.78e+07	1.61	y	39:54	1.36	8800					88.0

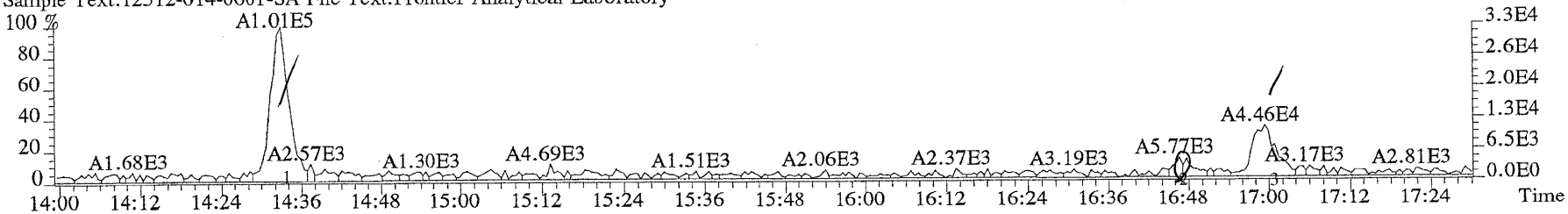
PCB-127	*	*	n	NotFnd	1.03	*		968	1250	3.06	
PCB-126	*	*	n	NotFnd	1.08	*		968	1250	3.42	
13C-PCB-126	7.30e+07	1.57	y	42:02	1.24	9070					90.7
PCB-151	1.50e+06	1.25	y	37:45	0.84	279		-	-	*	
PCB-135	8.20e+05	1.30	y	37:57	0.91	140		-	-	*	
PCB-144	3.26e+05	1.30	y	38:04	0.96	53.0		-	-	*	
PCB-147	1.38e+05	1.34	y	38:12	1.00	21.6		-	-	*	
PCB-139	5.47e+06	1.27	y	38:25	1.08	791		-	-	*	Co-elute PCB 149
PCB-149	5.47e+06	1.27	y	38:25	1.08	791		-	-	*	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	1.01	*		924	848	3.08	
PCB-143	3.13e+05	1.31	y	39:03	0.84	57.8		-	-	*	Co-elute PCB 134
PCB-134	3.13e+05	1.31	y	39:03	0.84	57.8		-	-	*	Co-elute PCB 143
PCB-131	1.43e+05	1.35	y	39:18	0.86	26.0		-	-	*	Co-elute PCB 133
PCB-133	1.43e+05	1.35	y	39:18	0.86	26.0		-	-	*	Co-elute PCB 131
PCB-142	5.89e+07	1.25	y	39:27	0.83	11000		-	-	*	
PCB-165	1.03e+06	1.09	y	39:41	1.14	141		-	-	*	Co-elute PCB 146
PCB-146	1.03e+06	1.09	y	39:41	1.14	141		-	-	*	Co-elute PCB 165
PCB-161	1.61e+06	1.23	y	39:55	1.06	237		-	-	*	Co-elute PCB 132
PCB-132	1.61e+06	1.23	y	39:55	1.06	237		-	-	*	Co-elute PCB 161
PCB-153	5.83e+06	1.25	y	40:02	1.15	791		-	-	*	
PCB-168	*	*	n	NotFnd	1.23	*		924	848	2.53	
PCB-141	7.37e+05	1.27	y	40:45	0.90	128		-	-	*	
PCB-137	1.50e+05	1.11	y	41:06	0.84	27.7		-	-	*	
PCB-130	2.51e+05	1.35	y	41:13	0.89	44.0		-	-	*	
PCB-138	4.88e+06	1.26	y	41:33	1.15	658		-	-	*	Co-elute PCB 163/164
PCB-163	4.88e+06	1.26	y	41:33	1.15	658		-	-	*	Co-elute PCB 138/164
PCB-164	4.88e+06	1.26	y	41:33	1.15	658		-	-	*	Co-elute PCB 138/163
PCB-158	4.81e+05	1.23	y	41:46	1.23	60.8		-	-	*	Co-elute PCB 160
PCB-160	4.81e+05	1.23	y	41:46	1.23	60.8		-	-	*	Co-elute PCB 158
PCB-129	1.56e+05	1.19	y	42:02	0.81	30.1		-	-	*	
PCB-166	*	*	n	NotFnd	1.18	*		924	848	2.64	
PCB-159	1.04e+05	1.33	y	42:48	1.28	12.7	J	-	-	*	
PCB-128	5.56e+05	1.31	y	43:01	1.04	83.0		-	-	*	Co-elute PCB 162
PCB-162	5.56e+05	1.31	y	43:01	1.04	83.0		-	-	*	Co-elute PCB 128
PCB-167	1.36e+05	1.35	y	43:25	1.13	18.6	J	-	-	*	
13C-PCB-167	6.49e+07	1.30	y	43:23	1.10	9110					91.1
PCB-156	3.25e+05	1.27	y	44:39	1.20	42.8		-	-	*	
13C-PCB-156	6.30e+07	1.29	y	44:37	1.05	9220					92.2
PCB-157	7.60e+04	1.16	y	44:55	1.12	10.4	J	-	-	*	
13C-PCB-157	6.56e+07	1.31	y	44:52	1.13	8930					89.3
PCB-169	*	*	n	NotFnd	1.07	*		924	848	2.86	
13C-PCB-169	6.35e+07	1.30	y	46:45	1.06	9220					92.2

FAL ID: 12512-014-0001-SA Filename: 05AUG19Z Sam:12 Acquired: 5-AUG-19 20:18:03 ICal: DAILY209FAL4-8-5-19
Client ID: LDW-Y2-SC-ENR-CD-S010 ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 12512-12 GC Column: DB1MS Amount: 1.000

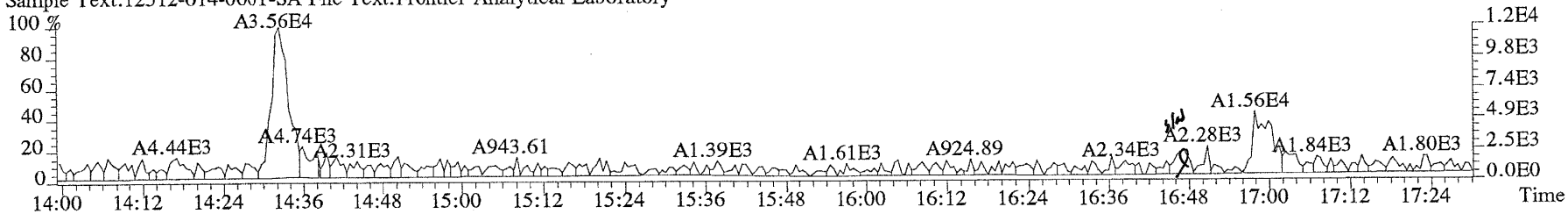
PCB-188	7.28e+04	0.94	y	39:42	1.08	10.6	J	-	-	*	
13C-PCB-188	6.36e+07	1.12	y	39:41	1.13	8660					86.6
PCB-184	3.46e+07	1.07	y	40:07	1.19	4880		-	-	*	
PCB-179	6.36e+05	1.06	y	40:51	1.08	98.2		-	-	*	
PCB-176	1.85e+05	0.93	y	41:18	1.07	29.0		-	-	*	
PCB-186	*	*	n	NotFnd	1.10	*		644	408	1.48	
PCB-178	1.79e+05	1.15	y	42:20	0.75	40.1		-	-	*	
PCB-175	*	*	n	NotFnd	0.74	*		644	408	2.19	
PCB-187	1.11e+06	1.06	y	42:48	0.85	218		-	-	*	Co-elute PCB 182
PCB-182	1.11e+06	1.06	y	42:48	0.85	218		-	-	*	Co-elute PCB 187
PCB-183	4.98e+05	1.11	y	43:06	0.82	101		-	-	*	
PCB-185	1.00e+05	1.11	y	43:46	0.75	22.3		-	-	*	
PCB-174	7.25e+05	1.09	y	44:06	0.78	156		-	-	*	
PCB-181	*	*	n	NotFnd	0.74	*		644	408	2.19	
PCB-177	3.82e+05	1.12	y	44:20	0.68	93.2		-	-	*	
PCB-171	1.85e+05	1.14	y	44:39	0.76	40.8		-	-	*	
PCB-173	*	*	n	NotFnd	0.67	*		644	408	2.44	
PCB-172	6.27e+05	1.11	y	45:23	0.70	149		-	-	*	
PCB-192	2.15e+07	1.05	y	45:36	0.92	3900		-	-	*	
PCB-180	1.15e+06	0.99	y	45:46	0.70	275		-	-	*	
PCB-193	1.12e+05	0.94	y	45:56	0.99	18.8	J	-	-	*	
PCB-191	*	*	n	NotFnd	0.96	*		644	408	1.69	
PCB-170	4.40e+05	1.10	y	47:03	0.69	107		-	-	*	
PCB-190	1.38e+05	1.02	y	47:13	0.95	24.4		-	-	*	
PCB-189	*	*	n	NotFnd	1.05	*		644	408	1.38	
13C-PCB-189	5.60e+07	1.06	y	48:24	0.96	8950					89.5
PCB-202	7.54e+04	0.90	y	44:48	1.02	15.5	J	-	-	*	
PCB-201	*	*	n	NotFnd	1.06	*		344	576	1.97	
PCB-204	4.76e+07	0.92	y	45:23	1.05	9560		-	-	*	
PCB-197	3.10e+05	0.83	y	45:39	1.06	61.2		-	-	*	
PCB-200	*	*	n	NotFnd	1.09	*		344	576	1.91	
PCB-198	*	*	n	NotFnd	0.78	*		344	576	2.67	
PCB-199	1.88e+05	0.84	y	47:40	0.75	52.9		-	-	*	
PCB-203	2.00e+05	0.99	y	47:56	0.86	48.7		-	-	*	Co-elute PCB 196
PCB-196	2.00e+05	0.99	y	47:56	0.86	48.7		-	-	*	Co-elute PCB 203
13C-PCB-202	4.76e+07	0.90	y	44:47	0.87	8410					84.1
13C-PCB-178	4.25e+07	1.07	y	42:19	0.71	9170					91.7
13C-PCB-138	6.48e+07	1.29	y	41:31	-	113					
PCB-195	7.64e+04	0.89	y	49:02	0.74	16.0	J	-	-	*	
PCB-194	1.68e+05	0.77	y	49:49	0.85	30.8		-	-	*	
PCB-205	2.33e+04	0.79	y	50:05	1.07	3.36	J	-	-	*	
13C-PCB-205	6.46e+07	0.89	y	50:04	1.28	8860					88.6
PCB-208	3.38e+04	1.44	y	49:08	1.06	5.26	J	-	-	*	
13C-PCB-208	6.06e+07	0.82	y	49:07	1.22	8750					87.5
PCB-207	2.30e+05	1.32	y	49:26	1.16	37.9		-	-	*	
PCB-206	5.58e+04	1.46	y	51:17	1.06	12.0	J	-	-	*	
13C-PCB-206	4.38e+07	0.81	y	51:15	0.91	8420					84.2
PCB-209	2.59e+05	1.18	y	52:27	1.12	43.3		-	-	*	
13C-PCB-209	5.33e+07	1.20	y	52:27	1.14	8200					82.0
13C-PCB-194	5.69e+07	0.91	y	49:48	-	108					

Analyst: [signature] Date: 8/7/19

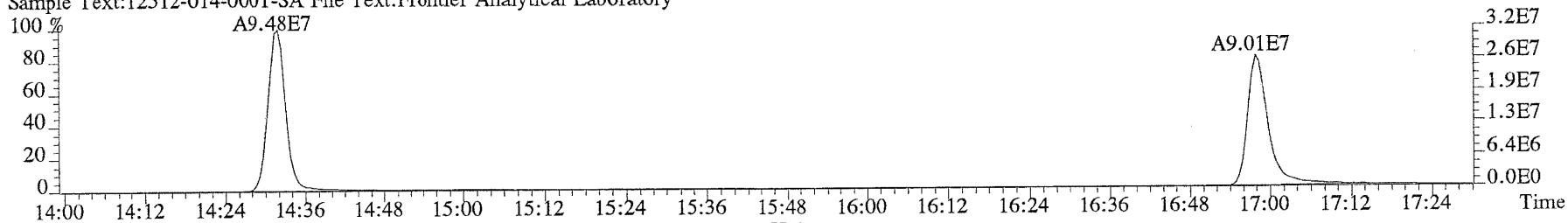
File:05AUG19Z #1-783 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:12 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



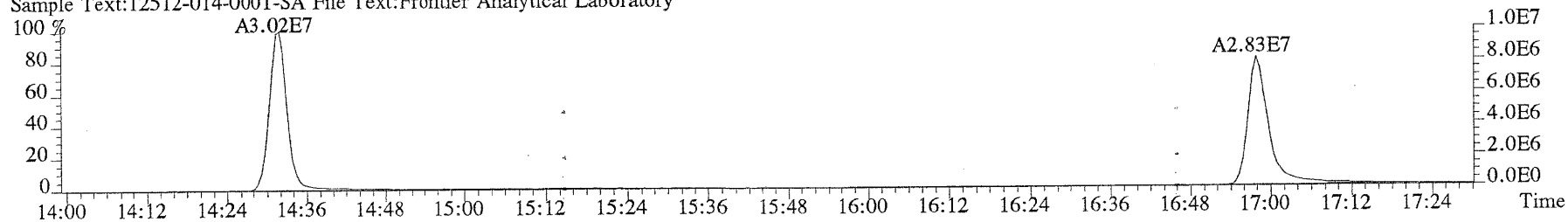
File:05AUG19Z #1-783 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:12 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



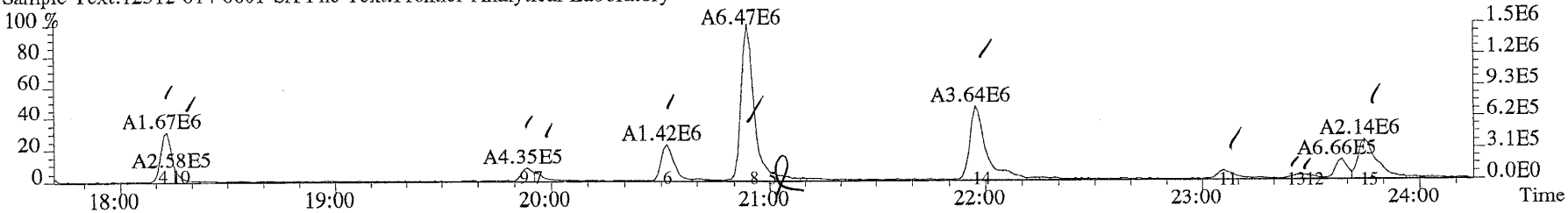
File:05AUG19Z #1-783 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:12 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



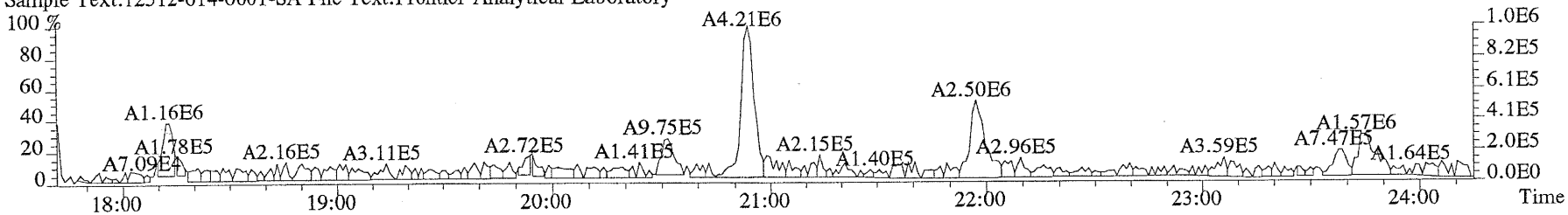
File:05AUG19Z #1-783 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:12 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



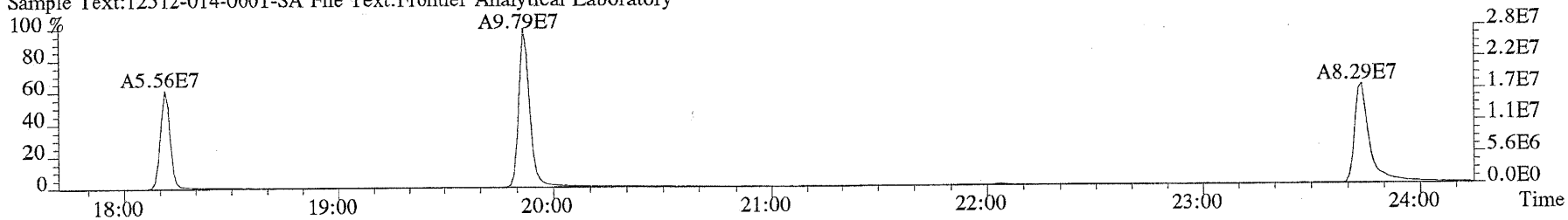
File:05AUG19Z #1-520 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



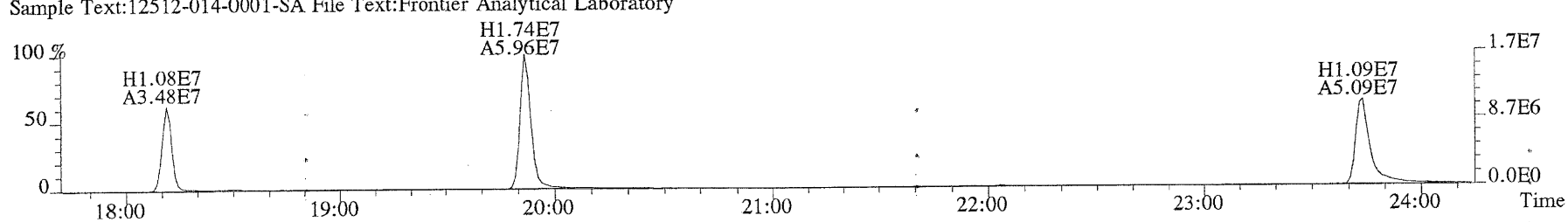
File:05AUG19Z #1-520 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



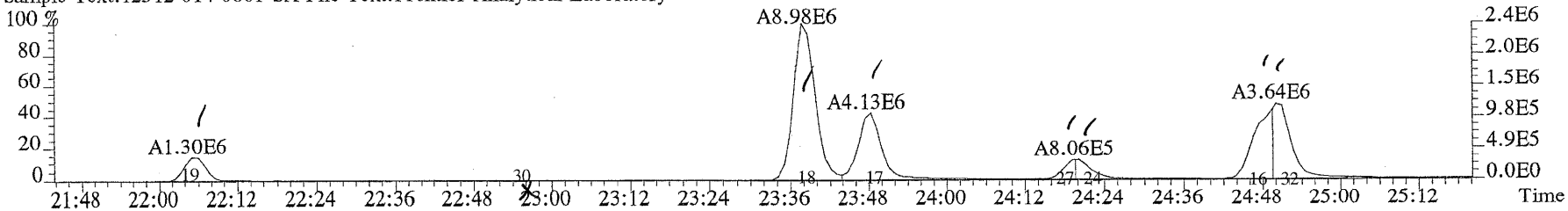
File:05AUG19Z #1-520 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



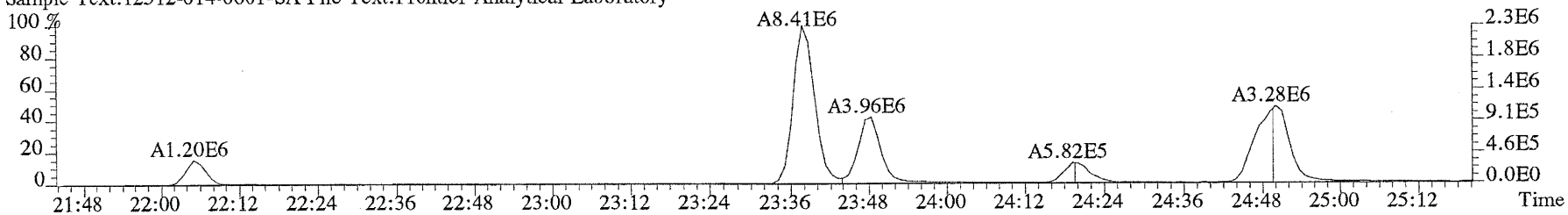
File:05AUG19Z #1-520 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



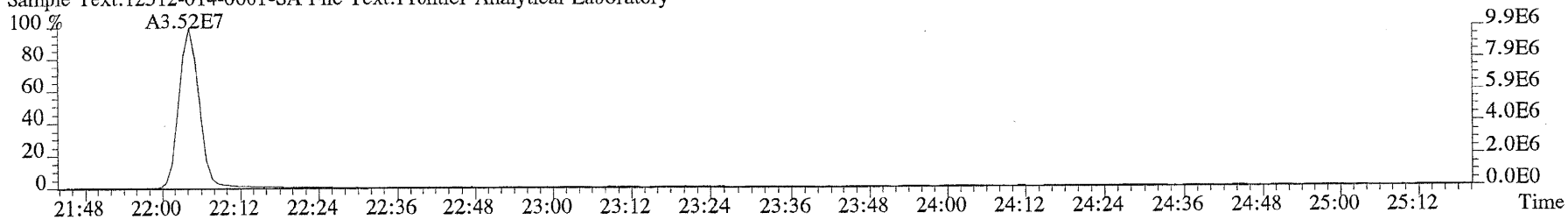
File:05AUG19Z #1-520 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



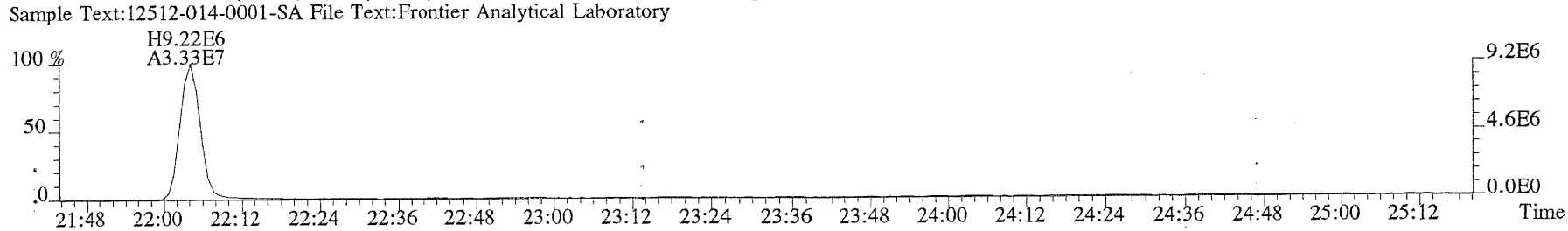
File:05AUG19Z #1-520 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



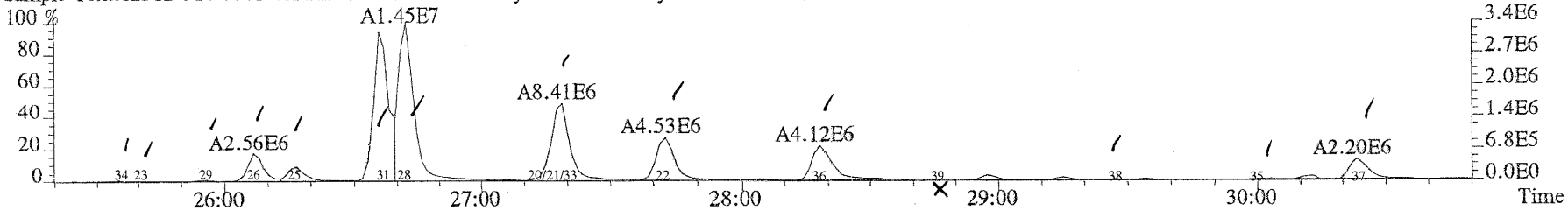
File:05AUG19Z #1-520 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



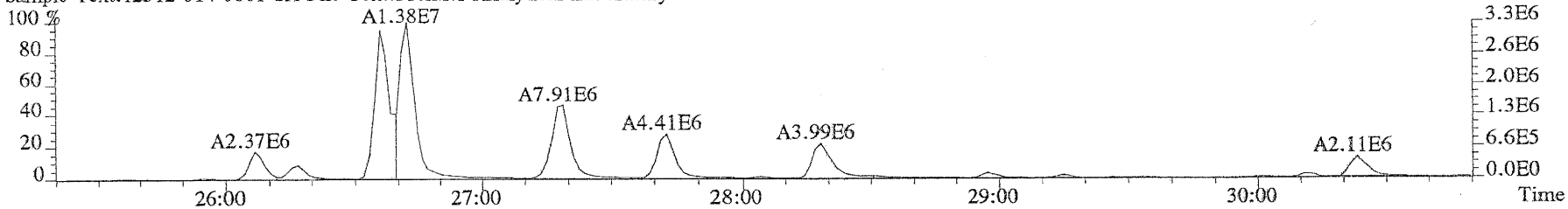
File:05AUG19Z #1-520 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



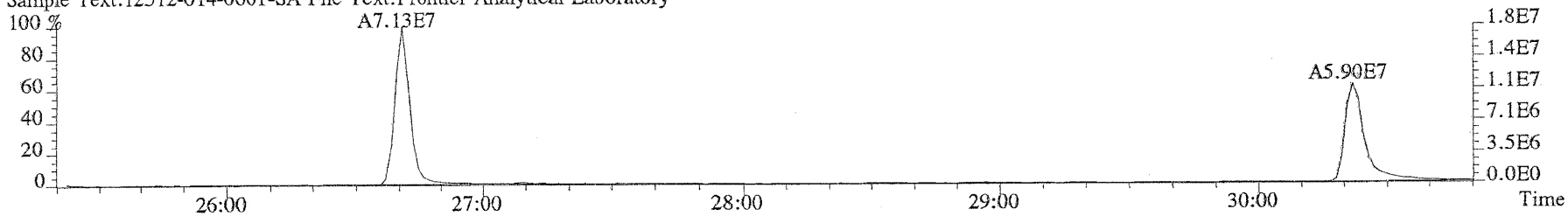
File:05AUG19Z #1-401 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



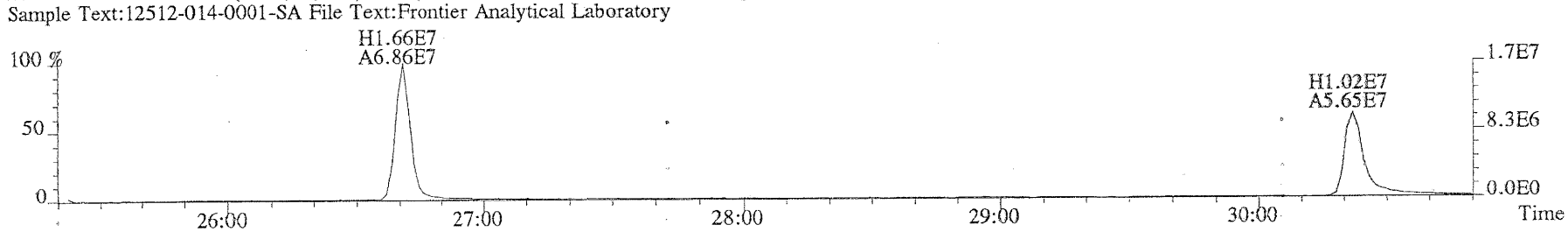
File:05AUG19Z #1-401 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



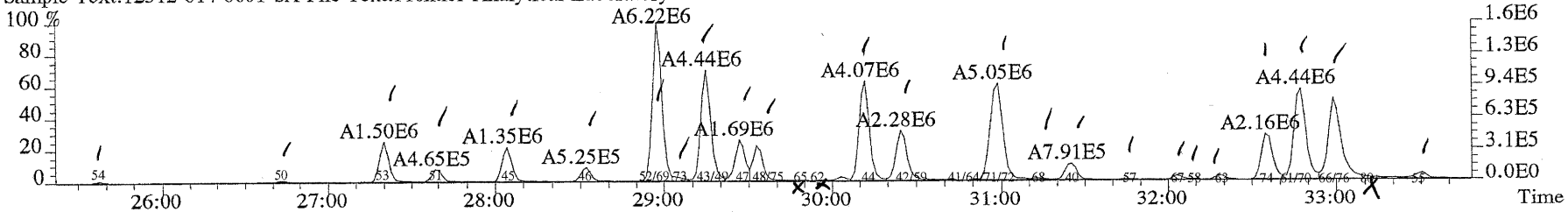
File:05AUG19Z #1-401 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



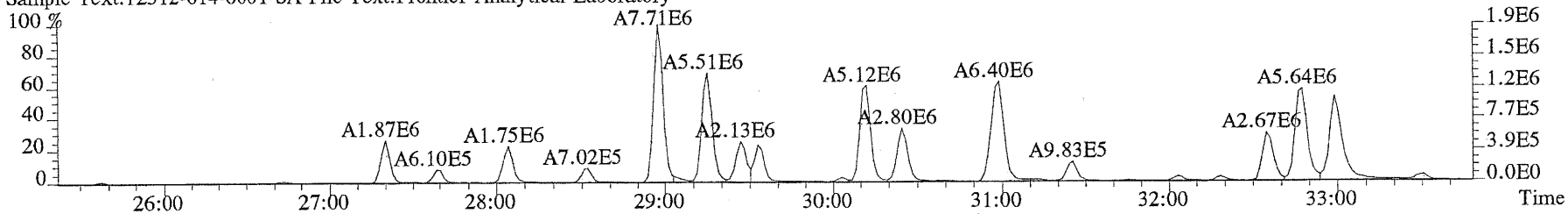
File:05AUG19Z #1-401 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



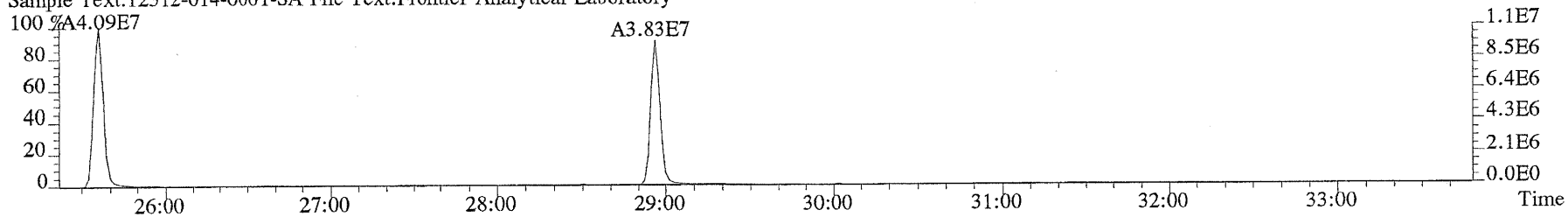
File:05AUG19Z #1-401 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



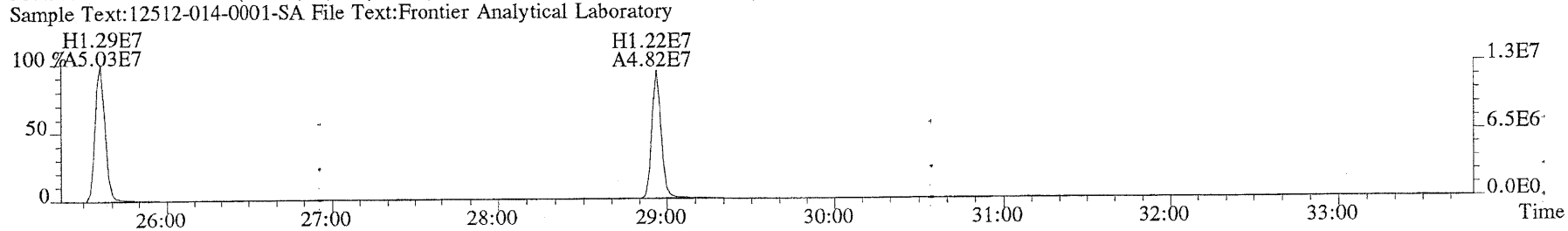
File:05AUG19Z #1-401 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



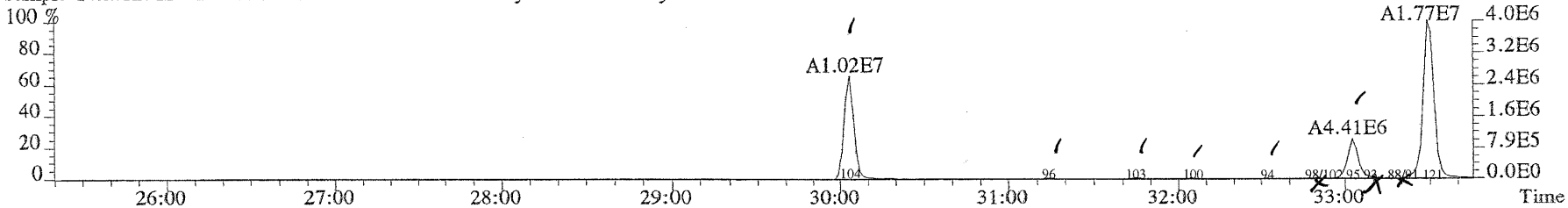
File:05AUG19Z #1-401 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



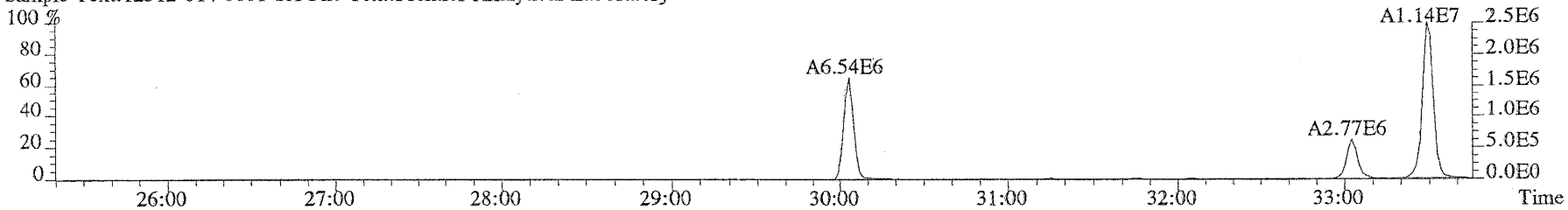
File:05AUG19Z #1-401 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



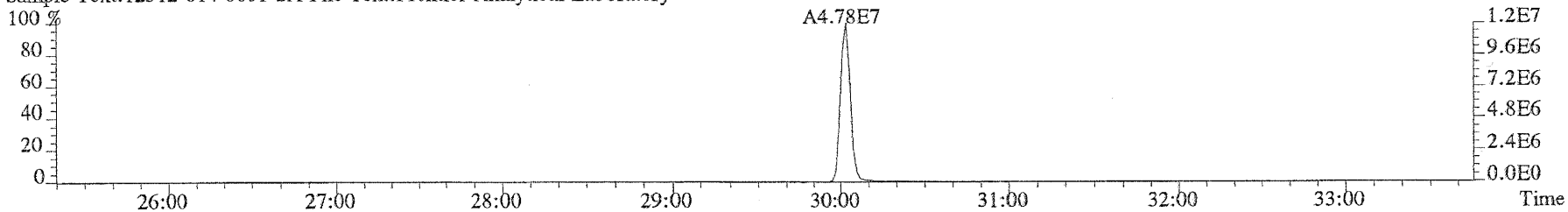
File:05AUG19Z #1-401 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



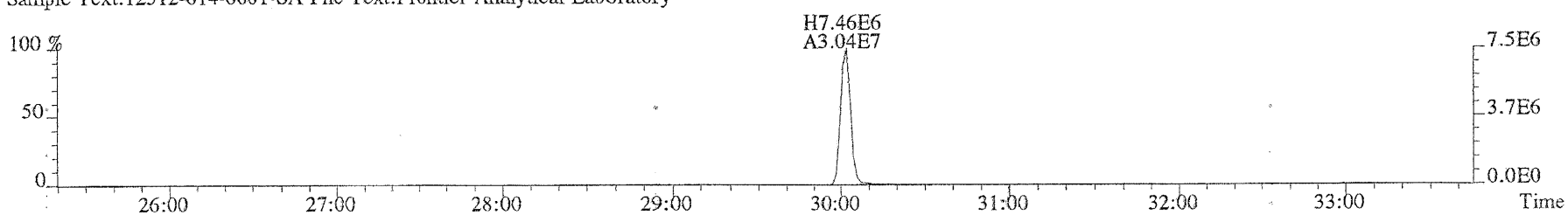
File:05AUG19Z #1-401 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



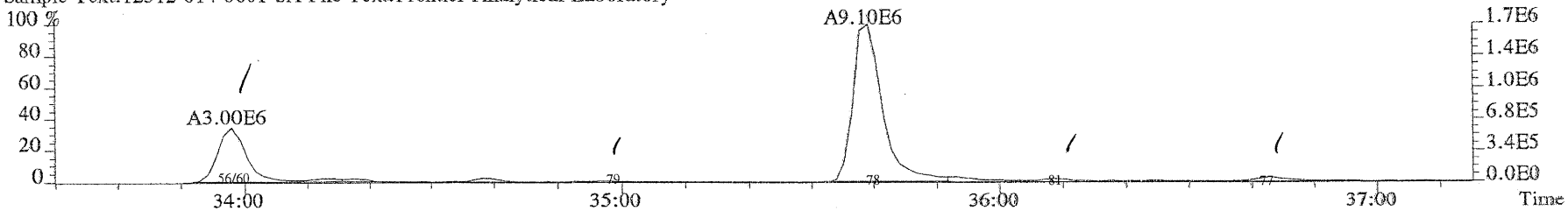
File:05AUG19Z #1-401 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



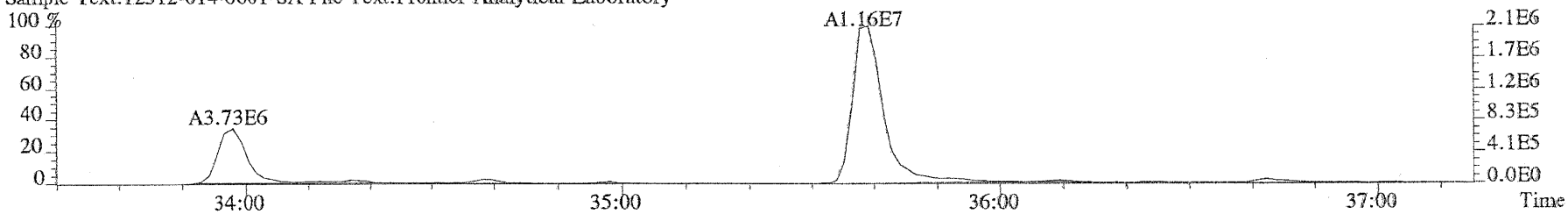
File:05AUG19Z #1-401 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



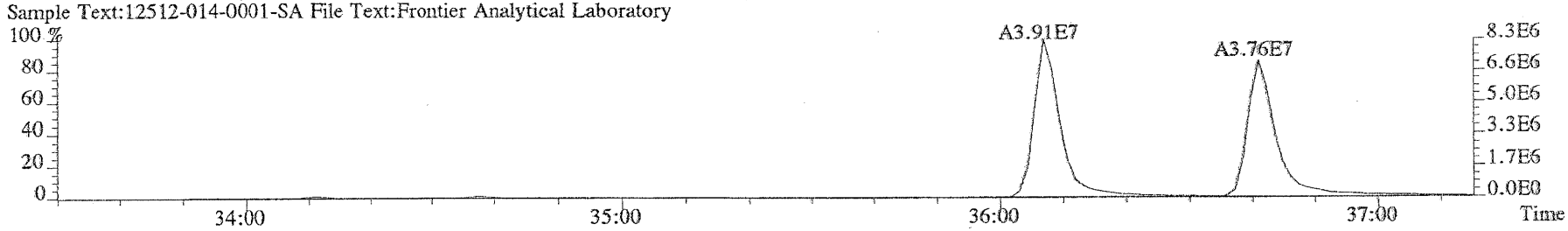
File:05AUG19Z #1-181 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



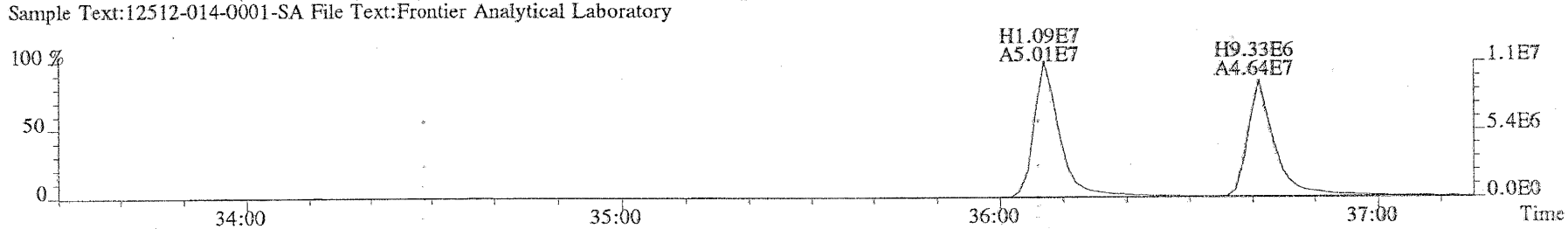
File:05AUG19Z #1-181 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



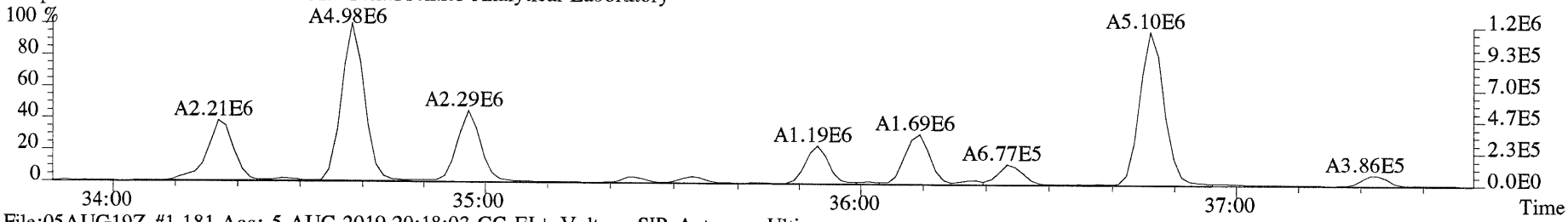
File:05AUG19Z #1-181 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



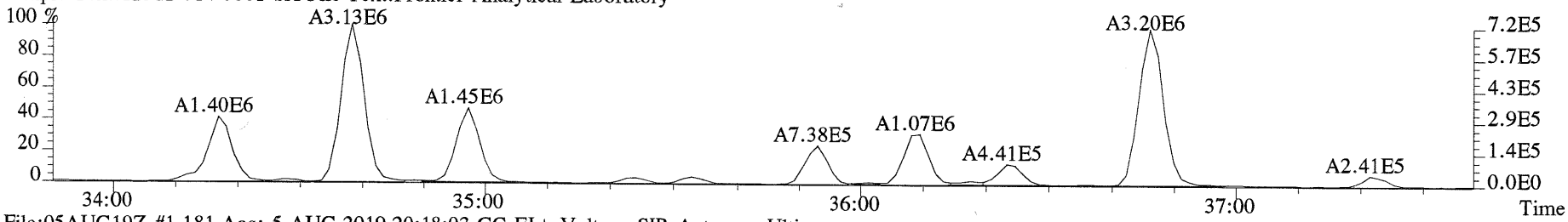
File:05AUG19Z #1-181 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



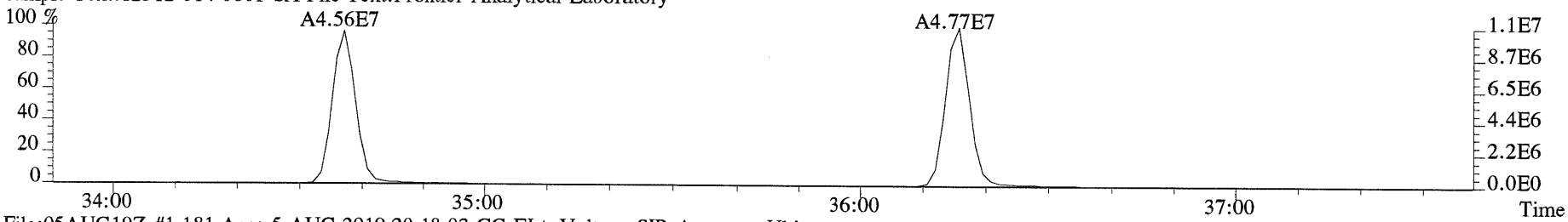
File:05AUG19Z #1-181 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:4 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



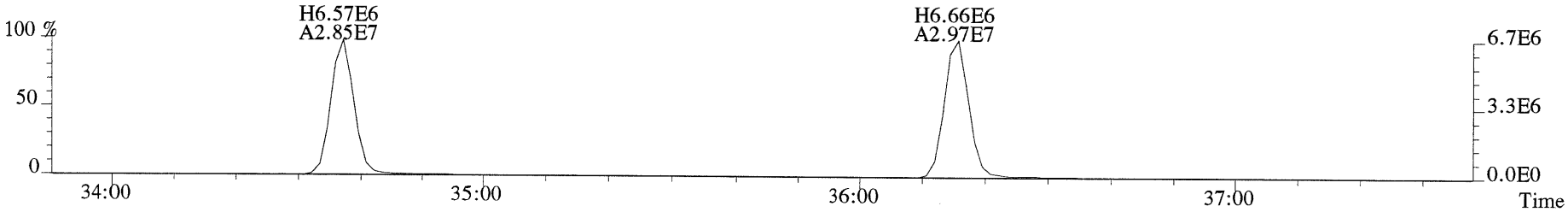
File:05AUG19Z #1-181 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



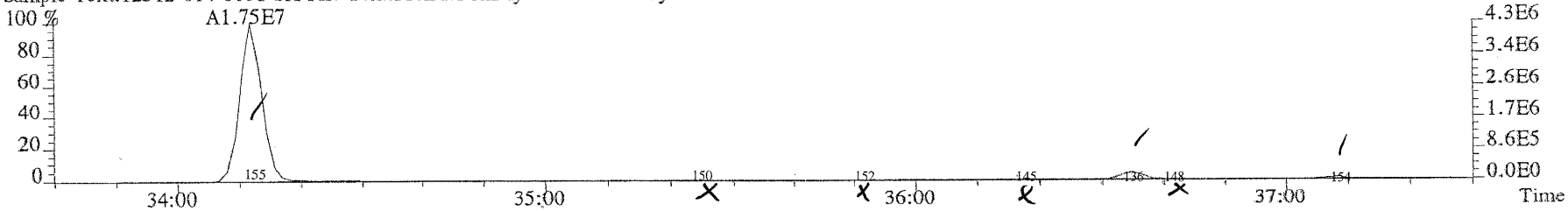
File:05AUG19Z #1-181 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



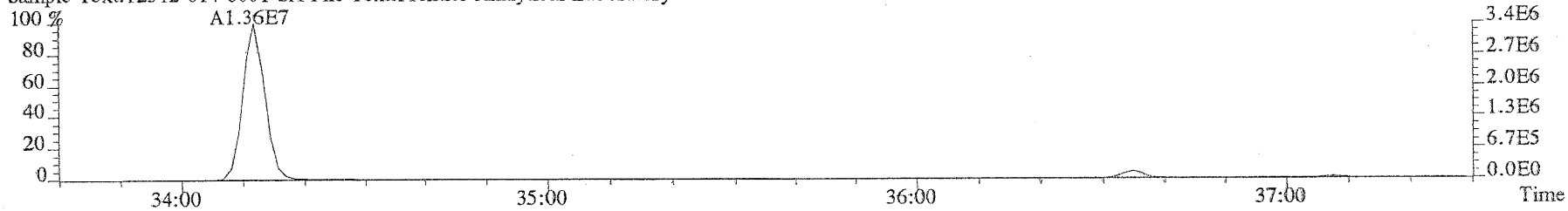
File:05AUG19Z #1-181 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



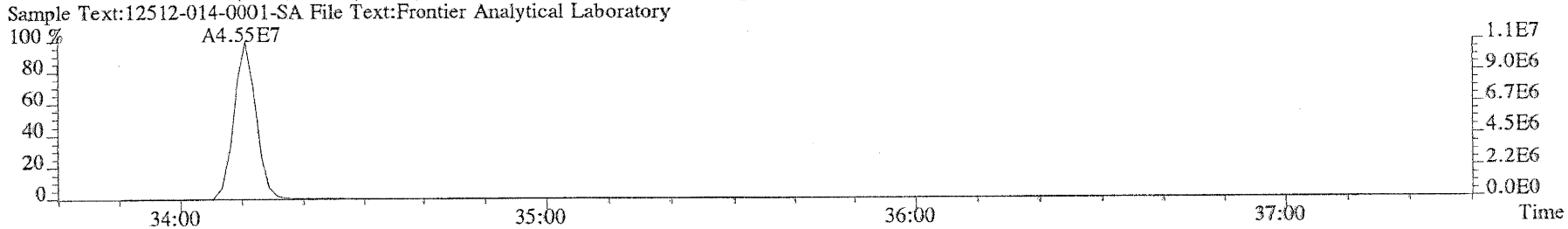
File:05AUG19Z #1-181 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



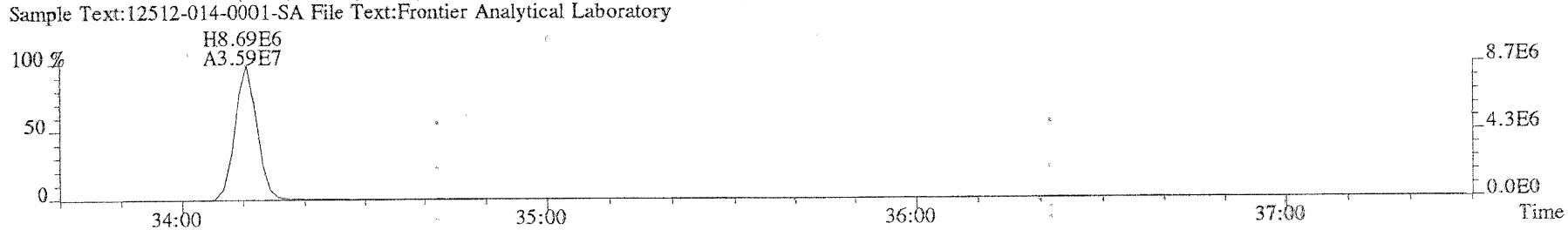
File:05AUG19Z #1-181 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



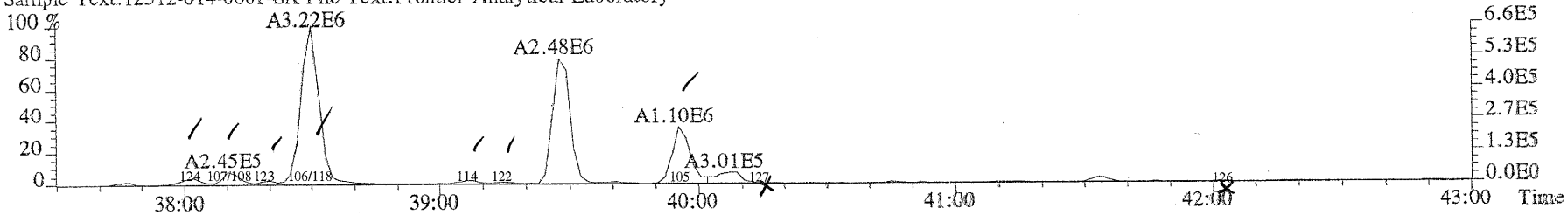
File:05AUG19Z #1-181 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



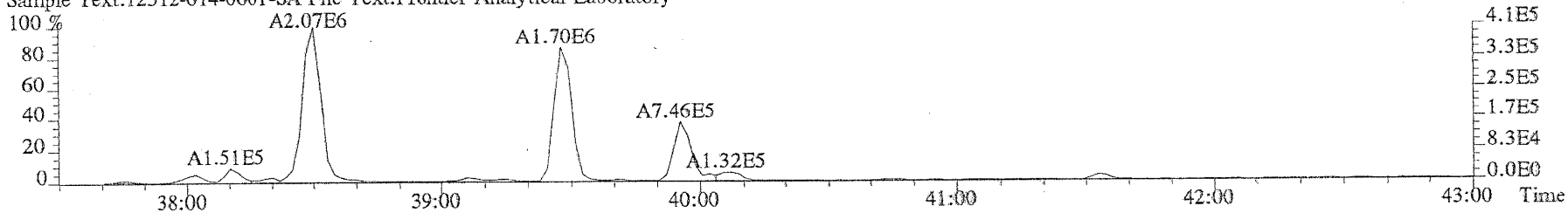
File:05AUG19Z #1-181 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



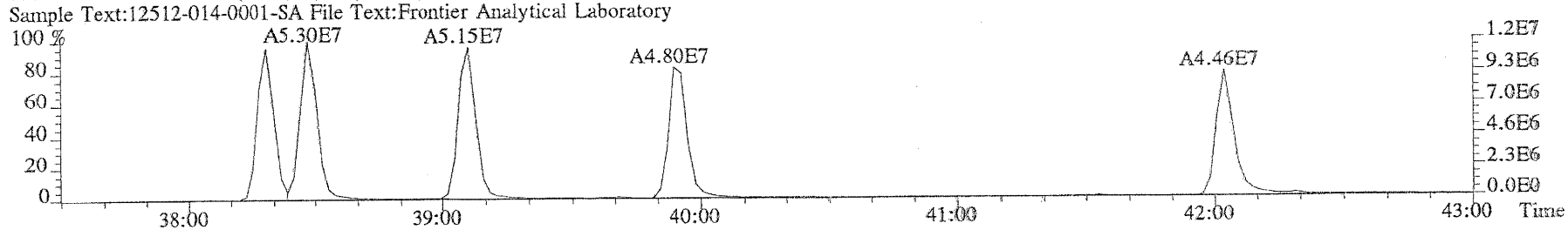
File:05AUG19Z #1-405 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



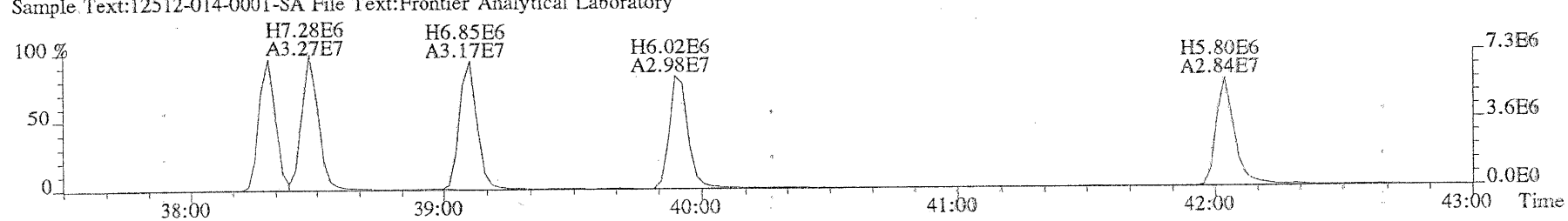
File:05AUG19Z #1-405 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



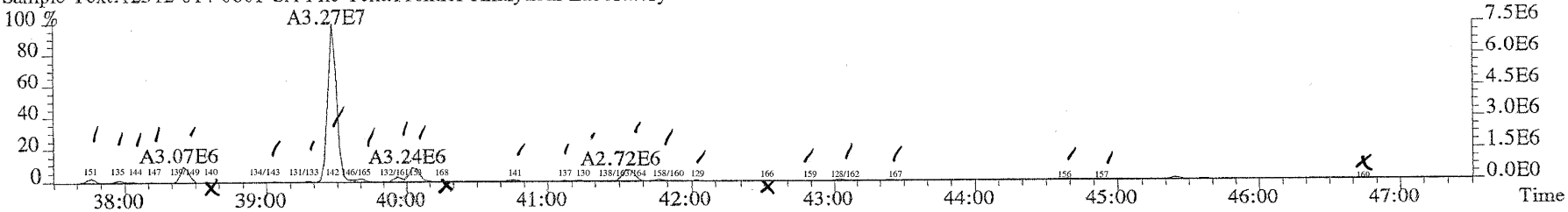
File:05AUG19Z #1-405 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



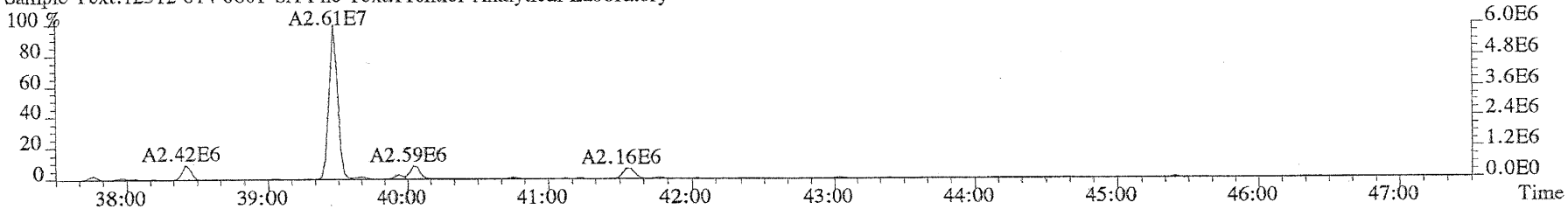
File:05AUG19Z #1-405 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



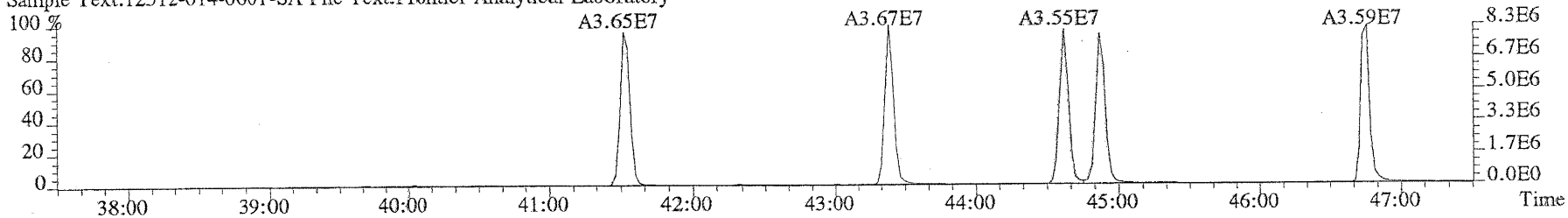
File:05AUG19Z #1-405 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



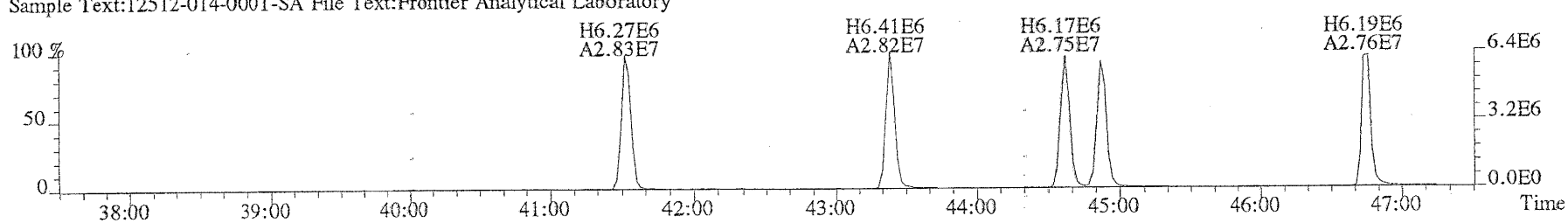
File:05AUG19Z #1-405 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



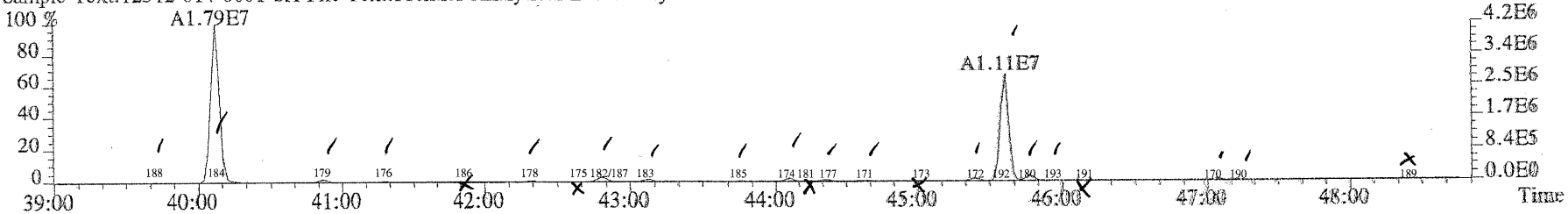
File:05AUG19Z #1-405 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



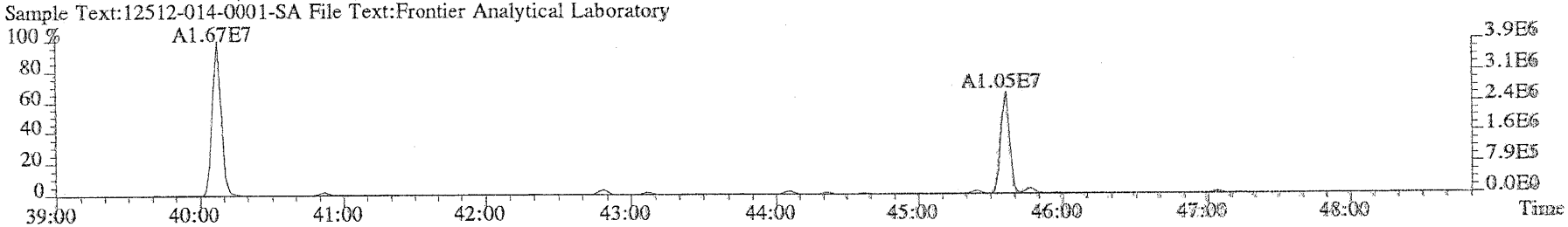
File:05AUG19Z #1-405 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



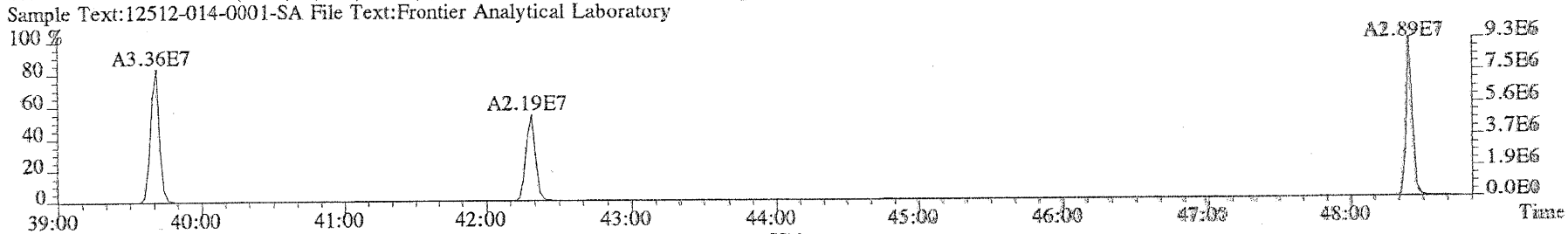
File:05AUG19Z #1-405 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



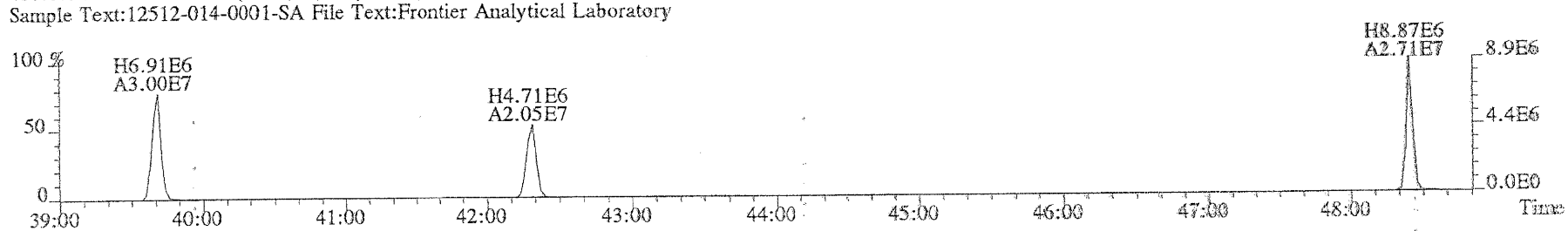
File:05AUG19Z #1-405 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



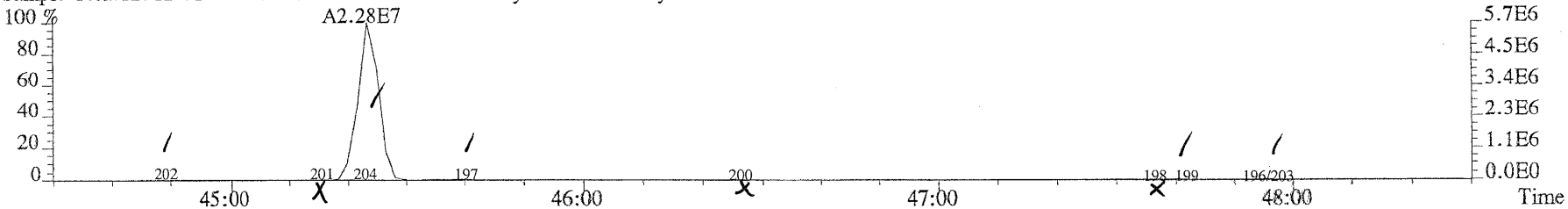
File:05AUG19Z #1-405 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



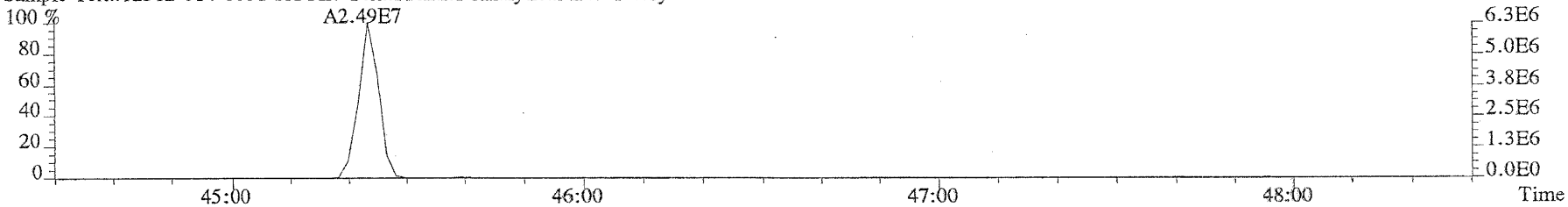
File:05AUG19Z #1-405 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



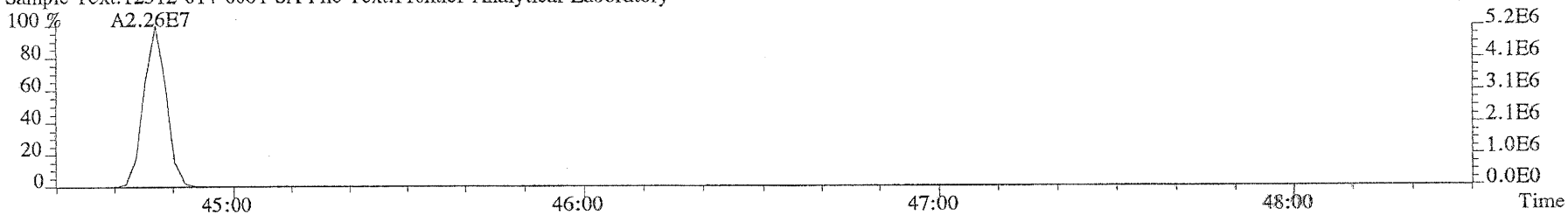
File:05AUG19Z #1-405 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



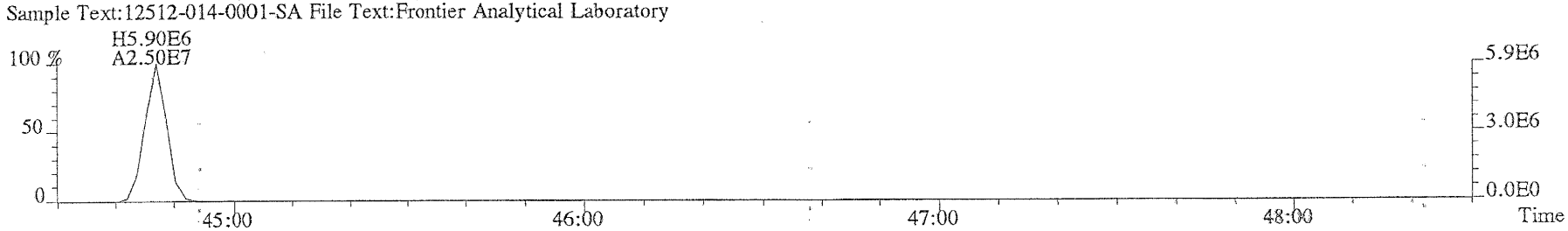
File:05AUG19Z #1-405 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



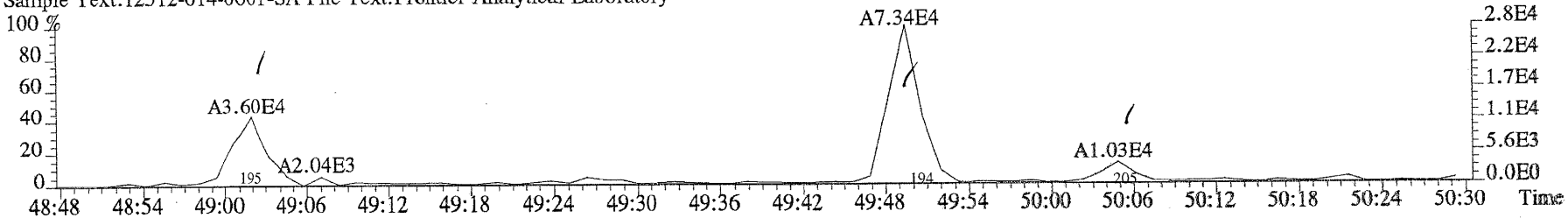
File:05AUG19Z #1-405 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



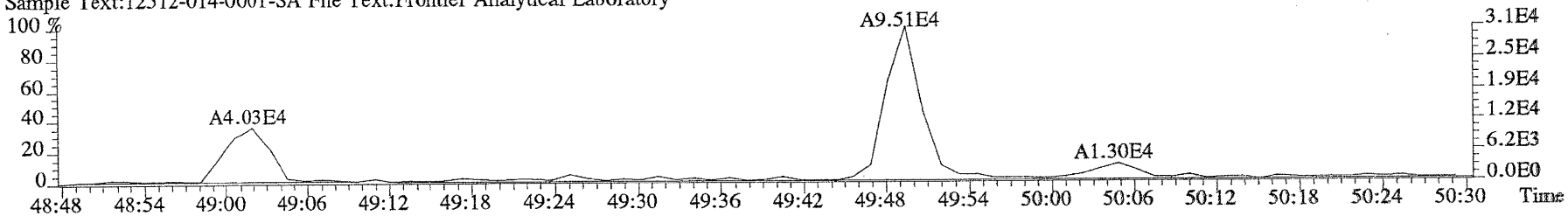
File:05AUG19Z #1-405 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



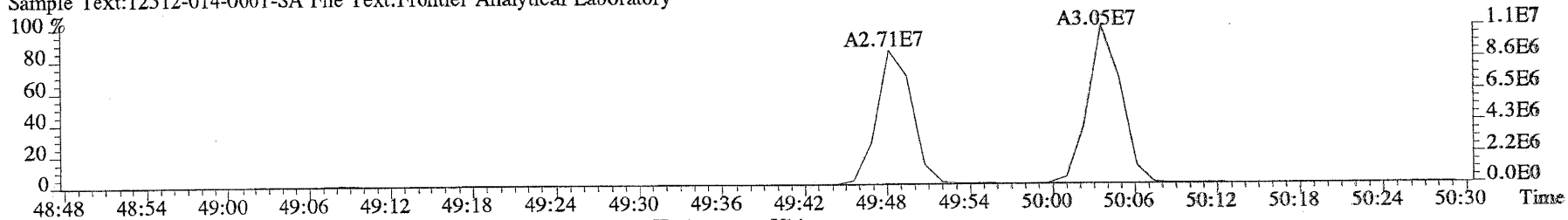
File:05AUG19Z #1-315 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



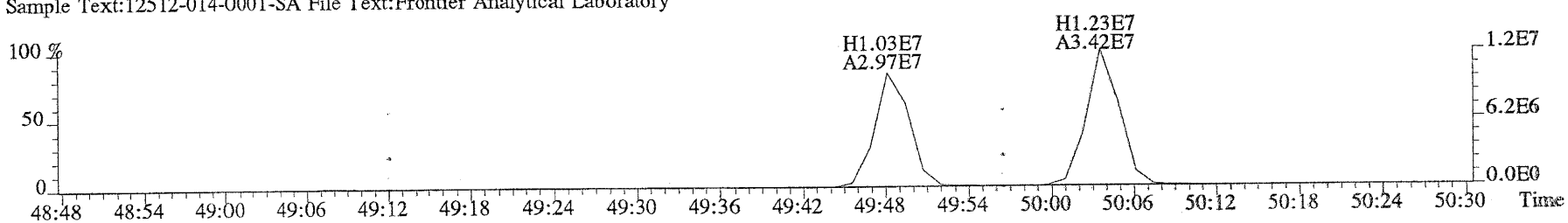
File:05AUG19Z #1-315 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



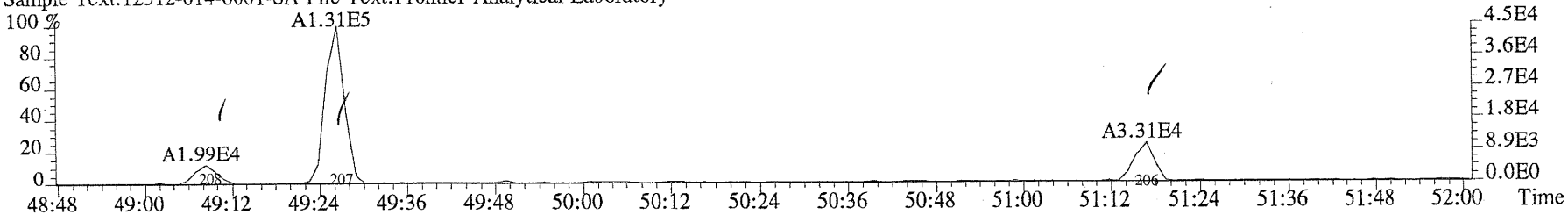
File:05AUG19Z #1-315 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



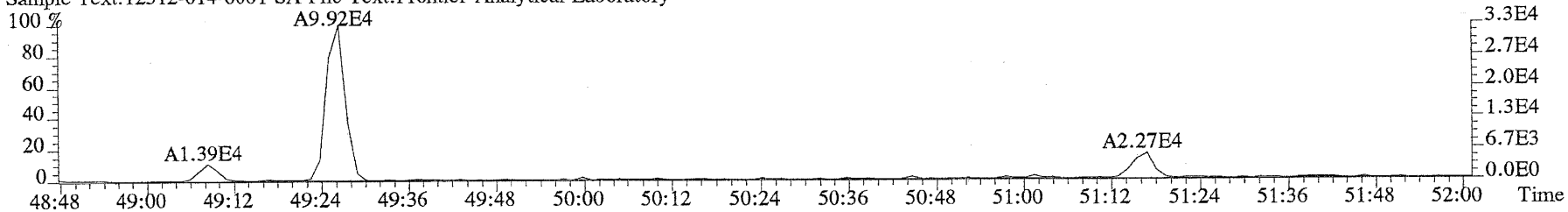
File:05AUG19Z #1-315 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



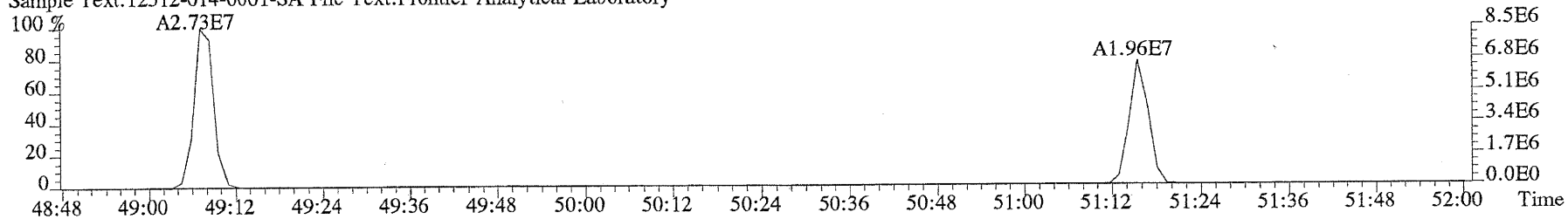
File:05AUG19Z #1-315 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



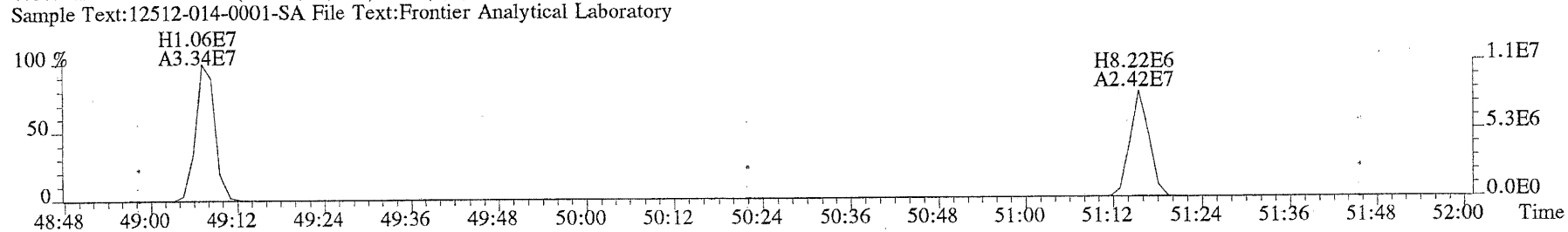
File:05AUG19Z #1-315 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



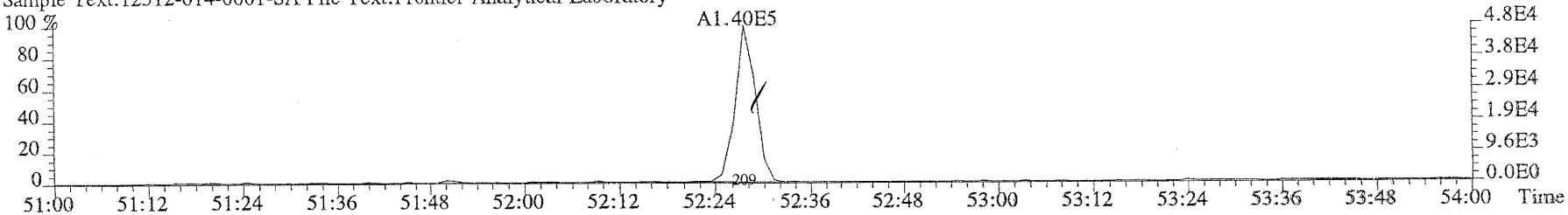
File:05AUG19Z #1-315 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



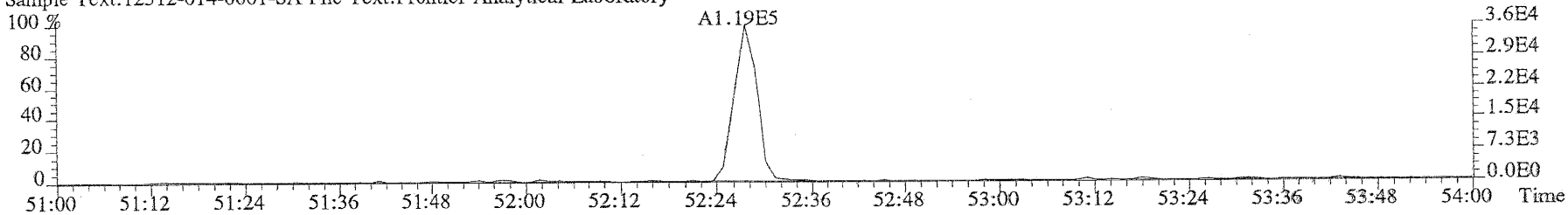
File:05AUG19Z #1-315 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



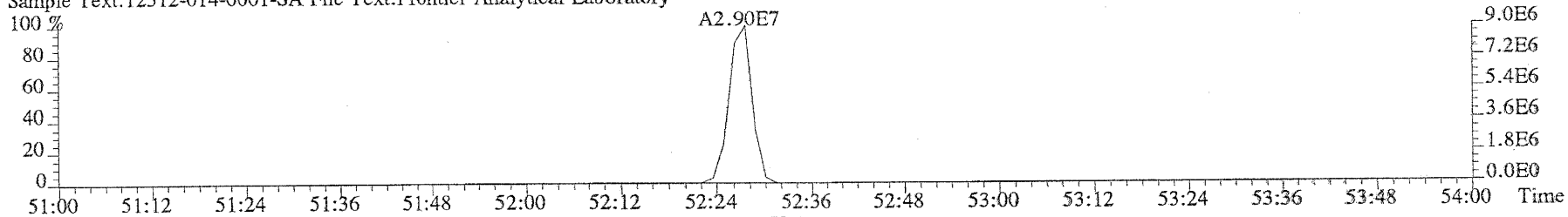
File:05AUG19Z #1-315 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



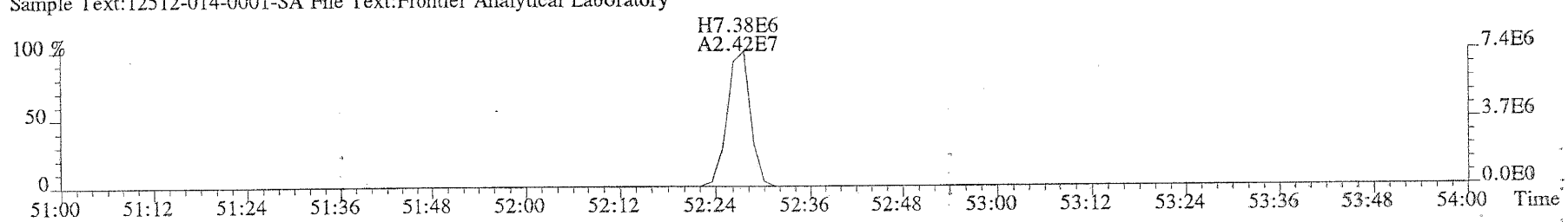
File:05AUG19Z #1-315 Acq: 5-AUG-2019 20:18:03 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-014-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 20:18:03 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:12512-014-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 20:18:03 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:12512-014-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12512-015-0001-SA Filename: 05AUG19Z Sam:13 Acquired: 5-AUG-19 21:16:25 ICal: DAILY209FAL4-8-5-19
Client ID: LDW-Y2-SC-ENR-CE-S010 ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 12511-9 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.76e+05	2.91 y	14:32	1.19	14.1	J	-	-	*	
13C-PCB-1	1.05e+08	3.19 y	14:31	0.92	8520					85.2
PCB-2	*	* n	NotFnd	1.17	*		1720	1260	2.02	
PCB-3	7.19e+04	2.86 y	16:59	1.22	5.86	J	-	-	*	
13C-PCB-3	1.00e+08	3.36 y	16:58	0.87	8620					86.2
PCB-4	4.40e+06	1.33 y	18:13	1.25	453		-	-	*	
PCB-10	4.33e+05	1.46 y	18:16	1.30	34.5		-	-	*	
13C-PCB-4	7.79e+07	1.61 y	18:11	0.71	8140					81.4
PCB-9	1.09e+06	1.45 y	19:54	1.37	83.0		-	-	*	
PCB-7	7.53e+05	1.39 y	19:55	1.36	57.3		-	-	*	
PCB-6	4.06e+06	1.48 y	20:31	1.59	265		-	-	*	
PCB-8	1.82e+07	1.49 y	20:54	1.33	1420		-	-	*	
PCB-5	*	* n	NotFnd	1.34	*		1190	9990	8.70	
PCB-14	7.18e+06	1.54 y	21:58	1.30	573		-	-	*	
PCB-11	7.51e+05	1.58 y	23:06	1.18	66.2		-	-	*	
PCB-13	2.51e+05	1.48 y	23:27	1.24	21.0		-	-	*	
PCB-12	2.61e+05	1.52 y	23:29	1.25	21.7		-	-	*	
PCB-15	4.77e+06	1.33 y	23:45	1.12	372		-	-	*	
13C-PCB-15	1.15e+08	1.60 y	23:44	0.95	8980					89.8
PCB-19	3.46e+06	1.06 y	22:06	1.19	487		-	-	*	
PCB-30	*	* n	NotFnd	1.71	*		1620	464	1.82	
PCB-18	2.48e+07	1.06 y	23:38	1.13	3680		-	-	*	
PCB-17	1.11e+07	1.10 y	23:48	1.27	1450		-	-	*	
PCB-27	1.40e+06	1.08 y	24:19	1.58	148		-	-	*	
PCB-24	2.00e+06	1.09 y	24:20	1.67	200		-	-	*	
PCB-16	7.71e+06	1.01 y	24:48	1.24	1040		-	-	*	
PCB-32	1.01e+07	1.07 y	24:50	1.60	1050		-	-	*	
13C-PCB-19	5.98e+07	1.07 y	22:04	0.50	8890					88.9
13C-PCB-9	1.34e+08	1.62 y	19:52	-	79.2					
PCB-34	1.49e+05	1.02 y	25:35	1.28	11.7	J	-	-	*	
PCB-23	*	* n	NotFnd	1.28	*		1240	1170	2.60	
PCB-29	2.66e+05	1.13 y	25:55	1.29	20.8		-	-	*	
PCB-26	5.31e+06	1.08 y	26:07	1.26	424		-	-	*	
PCB-25	2.93e+06	1.08 y	26:17	1.26	234		-	-	*	
PCB-31	2.61e+07	1.05 y	26:36	1.26	2100		-	-	*	
PCB-28	2.95e+07	1.06 y	26:42	1.55	1920		-	-	*	
PCB-20	1.73e+07	1.07 y	27:19	1.25	1400		-	-	*	Co-elute PCB 21/33
PCB-21	1.73e+07	1.07 y	27:19	1.25	1400		-	-	*	Co-elute PCB 20/33
PCB-33	1.73e+07	1.07 y	27:19	1.25	1400		-	-	*	Co-elute PCB 20/21
PCB-22	9.10e+06	1.09 y	27:43	1.38	667		-	-	*	
PCB-36	8.49e+06	1.11 y	28:18	1.23	698		-	-	*	
PCB-39	*	* n	NotFnd	1.23	*		1240	1170	2.72	
PCB-38	1.54e+05	0.96 y	29:29	1.26	12.4	J	-	-	*	
PCB-35	2.56e+05	1.15 y	30:00	1.11	23.3		-	-	*	
PCB-37	4.04e+06	1.06 y	30:23	1.16	351		-	-	*	
13C-PCB-37	9.91e+07	1.08 y	30:22	1.52	9050					90.5

PCB-54	1.34e+05	0.79	y	25:37	1.23	13.9	J	-	-	*	
PCB-50	1.17e+05	0.79	y	26:43	0.93	15.9	J	-	-	*	
PCB-53	3.20e+06	0.80	y	27:20	0.91	448		-	-	*	
PCB-51	1.02e+06	0.76	y	27:39	0.92	140		-	-	*	
PCB-45	2.98e+06	0.78	y	28:04	0.78	485		-	-	*	
PCB-46	1.09e+06	0.77	y	28:32	0.74	187		-	-	*	
PCB-52	1.30e+07	0.79	y	28:57	0.89	1860		-	-	*	Co-elute PCB 69
PCB-69	1.30e+07	0.79	y	28:57	0.89	1860		-	-	*	Co-elute PCB 52
PCB-73	3.34e+05	0.86	y	29:05	1.15	36.9		-	-	*	
PCB-43	8.96e+06	0.80	y	29:15	0.79	1440		-	-	*	Co-elute PCB 49
PCB-49	8.96e+06	0.80	y	29:15	0.79	1440		-	-	*	Co-elute PCB 43
PCB-47	3.35e+06	0.75	y	29:26	0.87	486		-	-	*	
PCB-48	3.25e+06	0.78	y	29:33	1.00	412		-	-	*	Co-elute PCB 75
PCB-75	3.25e+06	0.78	y	29:33	1.00	412		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*		1510	1780	3.83	
PCB-62	*	*	n	NotFnd	1.07	*		1510	1780	3.59	
PCB-44	8.36e+06	0.78	y	30:12	0.68	1550		-	-	*	
PCB-42	4.60e+06	0.79	y	30:24	0.90	646		-	-	*	Co-elute PCB 59
PCB-59	4.60e+06	0.79	y	30:24	0.90	646		-	-	*	Co-elute PCB 42
PCB-72	1.05e+07	0.79	y	30:59	0.99	1350		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.05e+07	0.79	y	30:59	0.99	1350		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.05e+07	0.79	y	30:59	0.99	1350		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.05e+07	0.79	y	30:59	0.99	1350		-	-	*	Co-elute PCB 72/41/71
PCB-68	2.14e+05	0.83	y	31:14	1.12	24.1		-	-	*	
PCB-40	1.57e+06	0.78	y	31:25	0.63	315		-	-	*	
PCB-57	8.75e+04	0.73	y	31:45	1.03	10.8	J	-	-	*	
PCB-67	3.92e+05	0.79	y	32:04	0.95	52.2		-	-	*	
PCB-58	5.01e+04	0.76	y	32:09	1.11	5.73	J	-	-	*	
PCB-63	3.75e+05	0.80	y	32:18	1.02	46.7		-	-	*	
PCB-74	4.36e+06	0.82	y	32:36	0.99	559		-	-	*	
PCB-61	8.95e+06	0.77	y	32:47	0.95	1190		-	-	*	Co-elute PCB 70
PCB-70	8.95e+06	0.77	y	32:47	0.95	1190		-	-	*	Co-elute PCB 61
PCB-76	9.20e+06	0.79	y	32:59	1.06	1100		-	-	*	Co-elute PCB 66
PCB-66	9.20e+06	0.79	y	32:59	1.06	1100		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.20	*		1510	1780	3.20	
PCB-55	7.20e+05	0.84	y	33:30	1.04	87.4		-	-	*	
13C-PCB-54	7.89e+07	0.81	y	25:36	1.36	8040					80.4
PCB-104	1.57e+07	1.58	y	30:03	1.10	2130		-	-	*	
PCB-96	1.22e+05	1.45	y	31:15	1.03	17.6	J	-	-	*	
PCB-103	1.73e+05	1.68	y	31:45	0.81	31.6		-	-	*	
PCB-100	1.10e+05	1.71	y	32:06	0.81	20.1		-	-	*	
PCB-94	4.69e+04	1.44	y	32:32	0.67	10.5	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.68	*		248	416	1.41	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.68	*		248	416	1.41	Co-elute PCB 98
PCB-95	6.70e+06	1.53	y	33:02	0.78	1290		-	-	*	
PCB-93	*	*	n	NotFnd	0.73	*		248	416	1.31	
PCB-88	*	*	n	NotFnd	0.76	*		248	416	1.27	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.76	*		248	416	1.27	Co-elute PCB 88
PCB-121	2.76e+07	1.57	y	33:30	0.94	4360		-	-	*	
13C-PCB-104	6.71e+07	1.58	y	30:02	1.05	8900					89.0
13C-PCB-28	1.20e+08	1.05	y	26:41	1.82	9190					91.9
13C-PCB-52	7.21e+07	0.79	y	28:56	-	88.8					

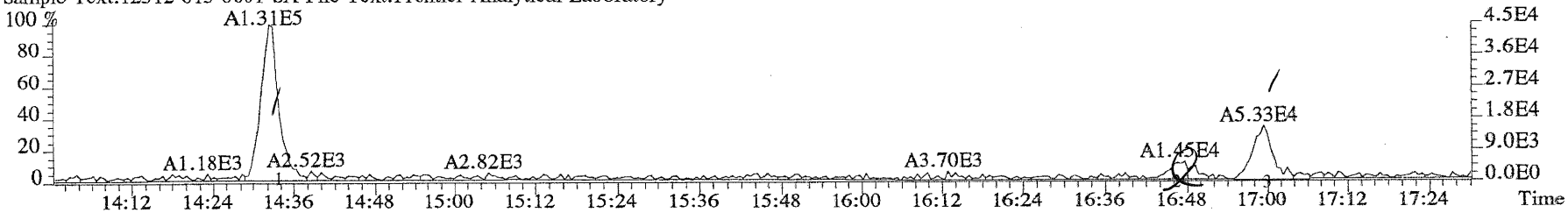
PCB-56	5.87e+06	0.78	y	33:58	1.14	652		-	-	*	Co-elute PCB 60
PCB-60	5.87e+06	0.78	y	33:58	1.14	652		-	-	*	Co-elute PCB 56
PCB-79	1.33e+05	0.67	y	34:59	1.22	13.8	J	-	-	*	
PCB-78	2.04e+07	0.81	y	35:39	1.17	2230		-	-	*	
PCB-81	4.35e+05	0.88	y	36:08	1.29	42.9		-	-	*	
13C-PCB-81	7.85e+07	0.80	y	36:08	1.32	9180					91.8
PCB-77	5.93e+05	0.79	y	36:42	1.11	67.3		-	-	*	
13C-PCB-77	7.91e+07	0.78	y	36:41	1.39	8810					88.1
PCB-155	2.85e+07	1.27	y	34:12	1.03	3830		-	-	*	
PCB-150	*	*	n	NotFnd	0.96	*		552	604	1.74	
PCB-152	*	*	n	NotFnd	0.95	*		552	604	1.76	
PCB-145	*	*	n	NotFnd	0.90	*		552	604	1.87	
PCB-136	1.43e+06	1.25	y	36:35	0.97	203		-	-	*	
PCB-148	*	*	n	NotFnd	0.60	*		552	604	2.81	
PCB-154	2.32e+05	1.20	y	37:09	0.78	40.9		-	-	*	
13C-PCB-155	7.22e+07	1.30	y	34:10	1.43	7800					78.0
13C-PCB-111	7.34e+07	1.60	y	36:16	1.12	10200					102
13C-PCB-101	6.47e+07	1.58	y	34:37	-	104					
PCB-84	3.41e+06	1.59	y	34:18	0.86	535		-	-	*	Co-elute PCB 92
PCB-92	3.41e+06	1.59	y	34:18	0.86	535		-	-	*	Co-elute PCB 84
PCB-89	1.26e+05	1.52	y	34:27	0.88	19.1	J	-	-	*	
PCB-90	7.64e+06	1.57	y	34:38	0.89	1150		-	-	*	Co-elute PCB 101
PCB-101	7.64e+06	1.57	y	34:38	0.89	1150		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.06	*		1510	1440	4.24	
PCB-99	3.47e+06	1.49	y	34:57	0.97	480		-	-	*	
PCB-119	2.63e+05	1.44	y	35:24	1.07	32.9		-	-	*	
PCB-83	3.27e+05	1.39	y	35:33	0.87	50.1		-	-	*	Co-elute PCB 112
PCB-112	3.27e+05	1.39	y	35:33	0.87	50.1		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.01	*		1510	1440	4.43	
PCB-97	1.76e+06	1.53	y	35:53	0.68	348		-	-	*	
PCB-86	1.08e+05	1.44	y	36:02	0.77	18.7	J	-	-	*	
PCB-125	2.63e+06	1.58	y	36:09	0.90	393		-	-	*	Co-elute PCB 87/117
PCB-87	2.63e+06	1.58	y	36:09	0.90	393		-	-	*	Co-elute PCB 125/117
PCB-117	2.63e+06	1.58	y	36:09	0.90	393		-	-	*	Co-elute PCB 125/87
PCB-111	1.95e+05	1.70	y	36:18	1.04	25.2		-	-	*	Co-elute PCB 115
PCB-115	1.95e+05	1.70	y	36:18	1.04	25.2		-	-	*	Co-elute PCB 111
PCB-85	1.04e+06	1.44	y	36:24	0.85	163		-	-	*	Co-elute PCB 116
PCB-116	1.04e+06	1.44	y	36:24	0.85	163		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.04	*		1510	1440	4.33	
PCB-110	7.76e+06	1.57	y	36:46	0.99	1050		-	-	*	
PCB-82	5.26e+05	1.58	y	37:23	0.57	124		-	-	*	
PCB-124	2.50e+05	1.49	y	38:02	1.12	29.8		-	-	*	
PCB-108	3.91e+05	1.45	y	38:12	1.10	47.5		-	-	*	Co-elute PCB 107
PCB-107	3.91e+05	1.45	y	38:12	1.10	47.5		-	-	*	Co-elute PCB 108
PCB-123	1.09e+05	1.72	y	38:20	1.03	14.7	J	-	-	*	
13C-PCB-123	7.18e+07	1.59	y	38:18	1.30	9790					97.9
PCB-118	4.82e+06	1.53	y	38:30	1.06	578		-	-	*	Co-elute PCB 106
PCB-106	4.82e+06	1.53	y	38:30	1.06	578		-	-	*	Co-elute PCB 118
13C-PCB-118	7.87e+07	1.60	y	38:28	1.44	9730					97.3
PCB-114	1.46e+05	1.38	y	39:06	1.19	16.1	J	-	-	*	
13C-PCB-114	7.63e+07	1.62	y	39:06	1.33	10200					102
PCB-122	7.74e+04	1.59	y	39:14	1.06	9.74	J	-	-	*	
PCB-105	1.67e+06	1.65	y	39:55	1.11	210		-	-	*	
13C-PCB-105	7.16e+07	1.58	y	39:55	1.36	9320					93.2

PCB-127	*	*	n	NotFnd	1.03	*		1040	1100	3.15	
PCB-126	*	*	n	NotFnd	1.08	*		1040	1100	3.68	
13C-PCB-126	6.59e+07	1.58	y	42:02	1.24	9420					94.2
PCB-151	1.47e+06	1.28	y	37:45	0.84	303		-	-	*	
PCB-135	8.27e+05	1.38	y	37:59	0.91	157		-	-	*	
PCB-144	3.18e+05	1.33	y	38:04	0.96	57.4		-	-	*	
PCB-147	1.29e+05	1.10	y	38:12	1.00	22.3		-	-	*	
PCB-139	5.14e+06	1.27	y	38:27	1.08	823		-	-	*	Co-elute PCB 149
PCB-149	5.14e+06	1.27	y	38:27	1.08	823		-	-	*	Co-elute PCB 139
PCB-140	5.43e+04	1.10	y	38:36	1.01	9.31	J	-	-	*	
PCB-143	2.85e+05	1.28	y	39:03	0.84	58.3		-	-	*	Co-elute PCB 134
PCB-134	2.85e+05	1.28	y	39:03	0.84	58.3		-	-	*	Co-elute PCB 143
PCB-131	1.38e+05	1.25	y	39:18	0.86	27.7		-	-	*	Co-elute PCB 133
PCB-133	1.38e+05	1.25	y	39:18	0.86	27.7		-	-	*	Co-elute PCB 131
PCB-142	5.77e+07	1.27	y	39:27	0.83	12000		-	-	*	
PCB-165	1.14e+06	1.30	y	39:41	1.14	172		-	-	*	Co-elute PCB 146
PCB-146	1.14e+06	1.30	y	39:41	1.14	172		-	-	*	Co-elute PCB 165
PCB-161	1.48e+06	1.21	y	39:55	1.06	240		-	-	*	Co-elute PCB 132
PCB-132	1.48e+06	1.21	y	39:55	1.06	240		-	-	*	Co-elute PCB 161
PCB-153	5.61e+06	1.27	y	40:04	1.15	843		-	-	*	
PCB-168	*	*	n	NotFnd	1.23	*		900	660	2.42	
PCB-141	7.20e+05	1.22	y	40:45	0.90	138		-	-	*	
PCB-137	1.36e+05	1.26	y	41:06	0.84	27.9		-	-	*	
PCB-130	2.47e+05	1.29	y	41:13	0.89	47.9		-	-	*	
PCB-138	4.57e+06	1.25	y	41:34	1.15	682		-	-	*	Co-elute PCB 163/164
PCB-163	4.57e+06	1.25	y	41:34	1.15	682		-	-	*	Co-elute PCB 138/164
PCB-164	4.57e+06	1.25	y	41:34	1.15	682		-	-	*	Co-elute PCB 138/163
PCB-158	4.53e+05	1.14	y	41:47	1.23	63.5		-	-	*	Co-elute PCB 160
PCB-160	4.53e+05	1.14	y	41:47	1.23	63.5		-	-	*	Co-elute PCB 158
PCB-129	1.41e+05	1.12	y	42:02	0.81	30.1		-	-	*	
PCB-166	*	*	n	NotFnd	1.18	*		900	660	2.53	
PCB-159	1.04e+05	1.28	y	42:48	1.28	14.1	J	-	-	*	
PCB-128	5.12e+05	1.22	y	43:03	1.04	84.7		-	-	*	Co-elute PCB 162
PCB-162	5.12e+05	1.22	y	43:03	1.04	84.7		-	-	*	Co-elute PCB 128
PCB-167	1.46e+05	1.35	y	43:24	1.13	22.0		-	-	*	
13C-PCB-167	5.91e+07	1.29	y	43:23	1.10	9550					95.5
PCB-156	3.09e+05	1.35	y	44:39	1.20	45.7		-	-	*	
13C-PCB-156	5.61e+07	1.29	y	44:37	1.05	9460					94.6
PCB-157	6.10e+04	1.33	y	44:52	1.12	9.18	J	-	-	*	
13C-PCB-157	5.95e+07	1.29	y	44:52	1.13	9310					93.1
PCB-169	*	*	n	NotFnd	1.07	*		900	660	2.58	
13C-PCB-169	5.73e+07	1.29	y	46:45	1.06	9580					95.8

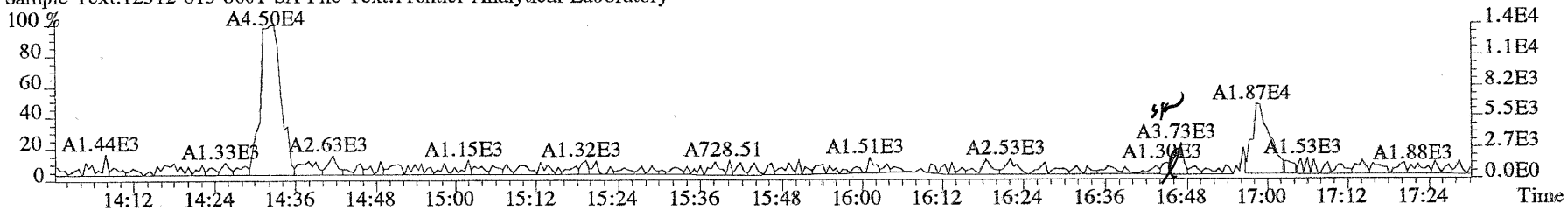
PCB-188	5.89e+04	1.10	y	39:41	1.08	9.39	J	-	-	*	
13C-PCB-188	5.82e+07	1.08	y	39:41	1.13	9110					91.1
PCB-184	3.35e+07	1.07	y	40:07	1.19	5330		-	-	*	
PCB-179	6.35e+05	1.03	y	40:51	1.08	111		-	-	*	
PCB-176	1.77e+05	1.13	y	41:18	1.07	31.3		-	-	*	
PCB-186	3.88e+04	1.12	y	41:52	1.10	6.65	J	-	-	*	
PCB-178	1.79e+05	1.12	y	42:20	0.75	45.2		-	-	*	
PCB-175	*	*	n	NotFnd	0.74	*		824	420	2.94	
PCB-187	9.80e+05	1.11	y	42:48	0.85	217		-	-	*	Co-elute PCB 182
PCB-182	9.80e+05	1.11	y	42:48	0.85	217		-	-	*	Co-elute PCB 187
PCB-183	4.87e+05	1.14	y	43:08	0.82	112		-	-	*	
PCB-185	8.55e+04	1.13	y	43:44	0.75	21.5		-	-	*	
PCB-174	6.58e+05	1.07	y	44:06	0.78	160		-	-	*	
PCB-181	3.24e+04	1.10	y	44:12	0.74	8.24	J	-	-	*	
PCB-177	3.61e+05	1.06	y	44:20	0.68	99.7		-	-	*	
PCB-171	1.89e+05	1.06	y	44:37	0.76	47.1		-	-	*	
PCB-173	*	*	n	NotFnd	0.67	*		824	420	3.28	
PCB-172	5.77e+05	1.06	y	45:25	0.70	155		-	-	*	
PCB-192	2.06e+07	1.07	y	45:36	0.92	4220		-	-	*	
PCB-180	1.14e+06	1.04	y	45:46	0.70	306		-	-	*	
PCB-193	1.34e+05	0.97	y	45:56	0.99	25.5		-	-	*	
PCB-191	*	*	n	NotFnd	0.96	*		824	420	2.27	
PCB-170	4.21e+05	1.09	y	47:05	0.69	115		-	-	*	
PCB-190	1.25e+05	0.95	y	47:13	0.95	25.0		-	-	*	
PCB-189	*	*	n	NotFnd	1.05	*		824	420	2.05	
13C-PCB-189	4.77e+07	1.08	y	48:24	0.96	8780					87.8
PCB-202	7.67e+04	0.92	y	44:48	1.02	17.4	J	-	-	*	
PCB-201	*	*	n	NotFnd	1.06	*		244	336	1.27	
PCB-204	4.38e+07	0.92	y	45:23	1.05	9700		-	-	*	
PCB-197	2.67e+05	0.97	y	45:39	1.06	58.3		-	-	*	
PCB-200	4.86e+04	0.93	y	46:24	1.09	10.3	J	-	-	*	
PCB-198	*	*	n	NotFnd	0.78	*		244	336	1.73	
PCB-199	1.79e+05	0.98	y	47:41	0.75	55.7		-	-	*	
PCB-203	2.22e+05	0.89	y	47:56	0.86	59.7		-	-	*	Co-elute PCB 196
PCB-196	2.22e+05	0.89	y	47:56	0.86	59.7		-	-	*	Co-elute PCB 203
13C-PCB-202	4.31e+07	0.90	y	44:47	0.87	8770					87.7
13C-PCB-178	3.80e+07	1.07	y	42:19	0.71	9450					94.5
13C-PCB-138	5.63e+07	1.31	y	41:33	-	97.8					
PCB-195	7.57e+04	0.77	y	49:02	0.74	18.0	J	-	-	*	
PCB-194	1.70e+05	0.90	y	49:49	0.85	35.3		-	-	*	
PCB-205	*	*	n	NotFnd	1.07	*		1160	1130	2.72	
13C-PCB-205	5.69e+07	0.90	y	50:03	1.28	9010					90.1
PCB-208	3.32e+04	1.34	y	49:08	1.06	5.93	J	-	-	*	
13C-PCB-208	5.28e+07	0.82	y	49:08	1.22	8800					88.0
PCB-207	2.24e+05	1.33	y	49:26	1.16	41.8		-	-	*	
PCB-206	4.73e+04	1.18	y	51:17	1.06	11.3	J	-	-	*	
13C-PCB-206	3.94e+07	0.82	y	51:15	0.91	8760					87.6
PCB-209	2.41e+05	1.15	y	52:27	1.12	45.1		-	-	*	
13C-PCB-209	4.75e+07	1.19	y	52:27	1.14	8460					84.6
13C-PCB-194	4.92e+07	0.91	y	49:48	-	93.4					

Analyst: _____ Date: 8/7/19

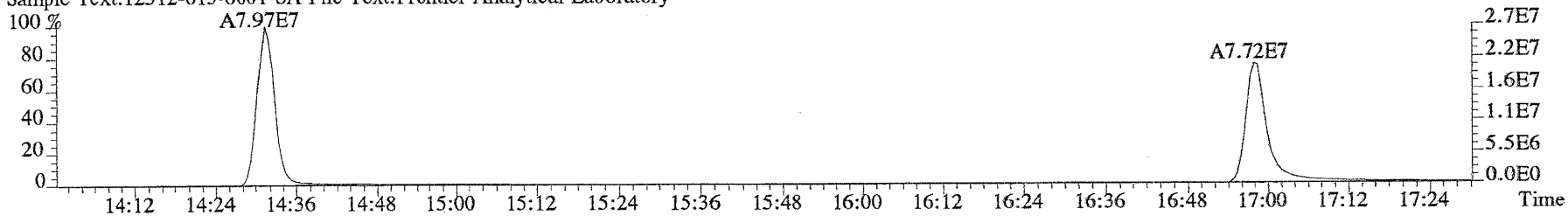
File:05AUG19Z #1-783 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



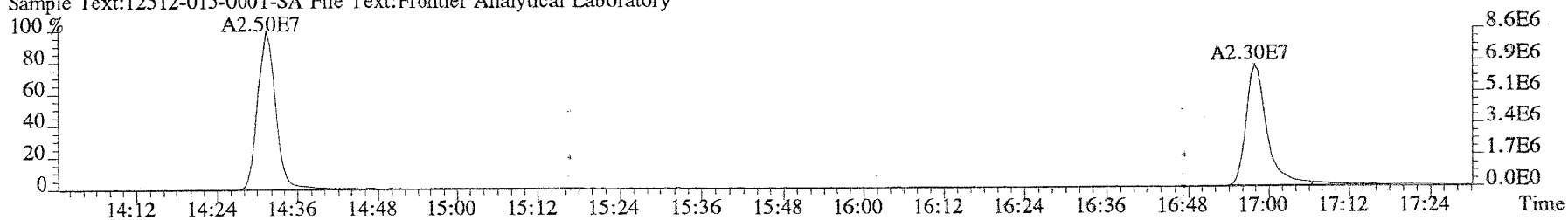
File:05AUG19Z #1-783 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



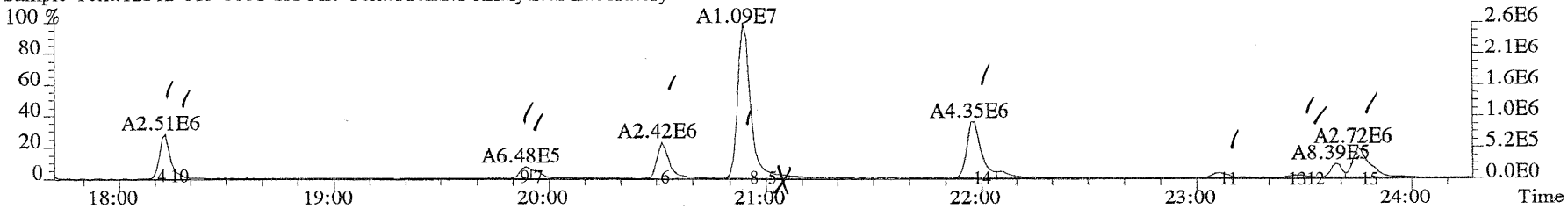
File:05AUG19Z #1-783 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



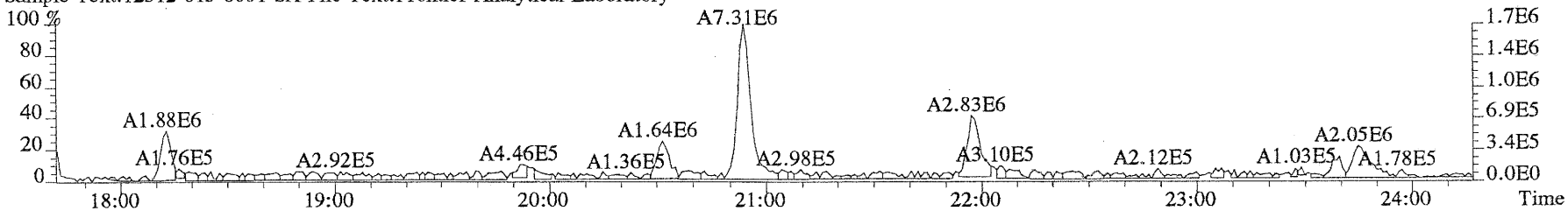
File:05AUG19Z #1-783 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



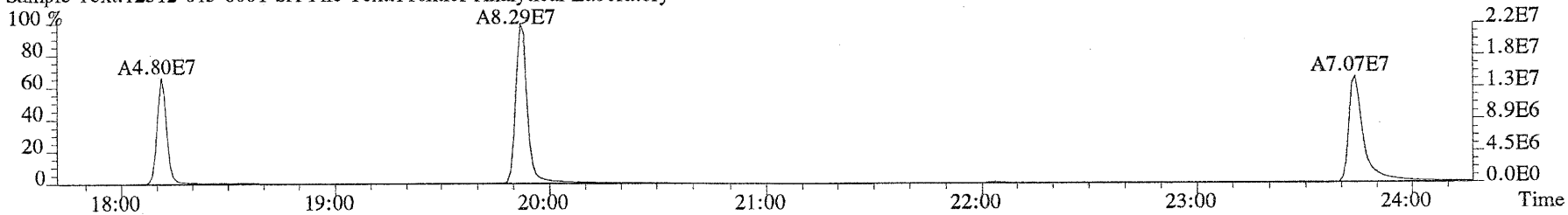
File:05AUG19Z #1-520 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



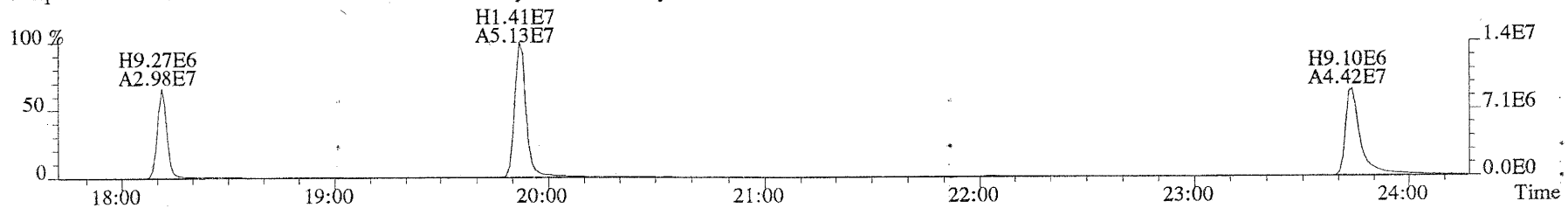
File:05AUG19Z #1-520 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



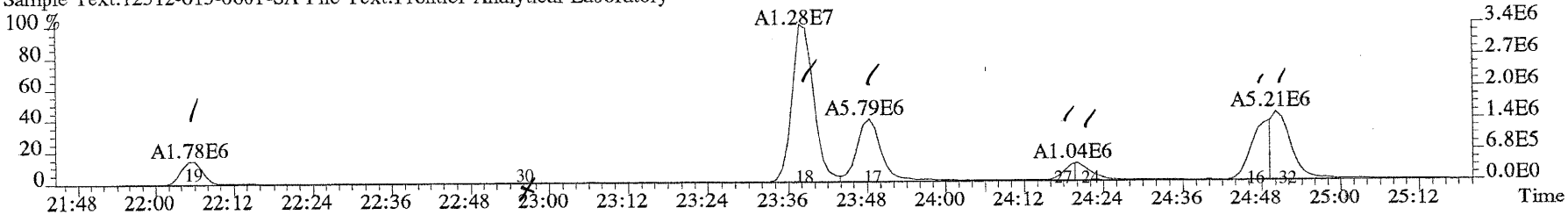
File:05AUG19Z #1-520 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



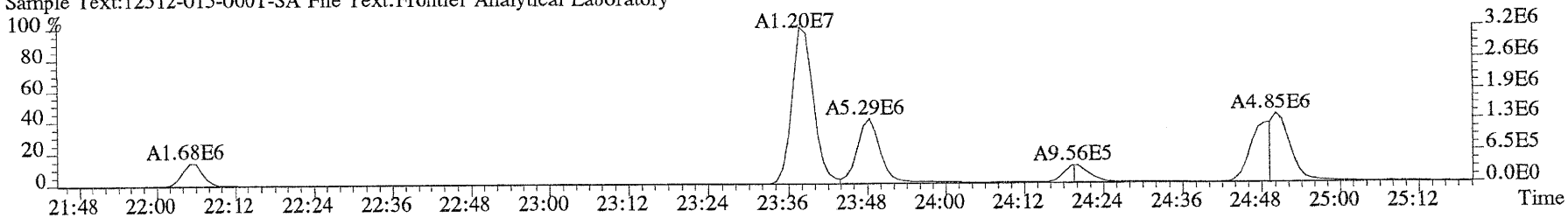
File:05AUG19Z #1-520 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



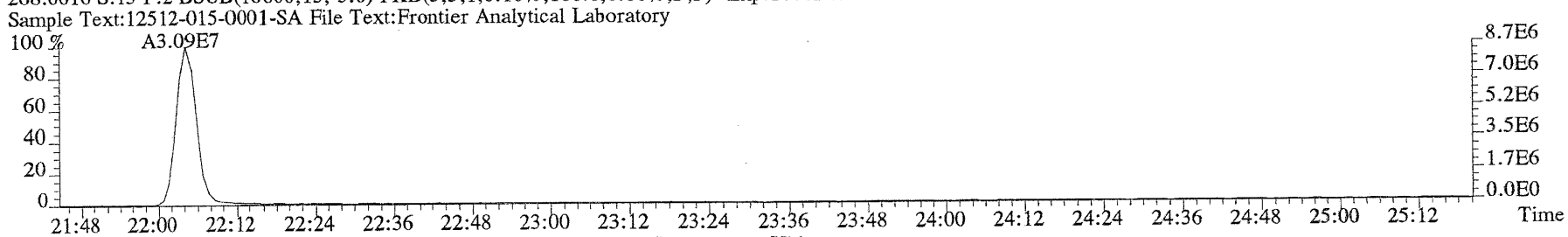
File:05AUG19Z #1-520 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



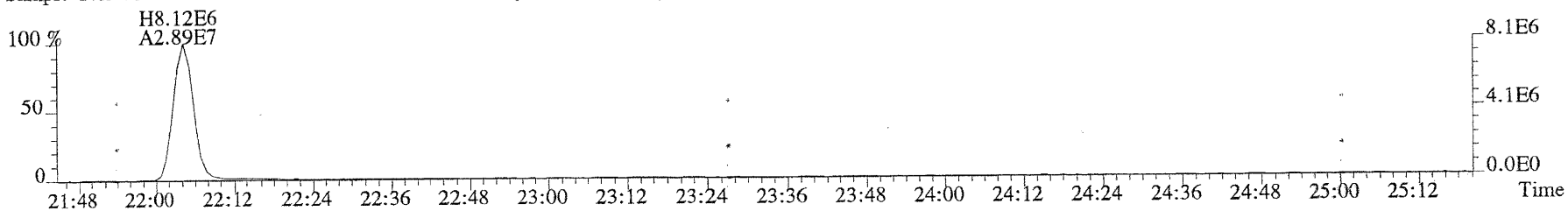
File:05AUG19Z #1-520 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



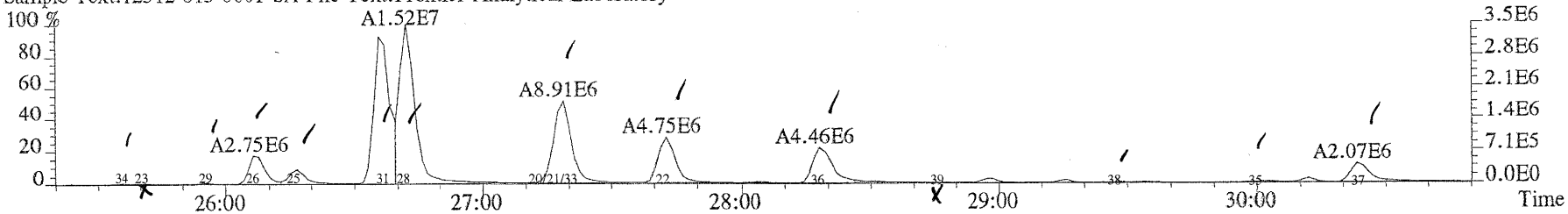
File:05AUG19Z #1-520 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



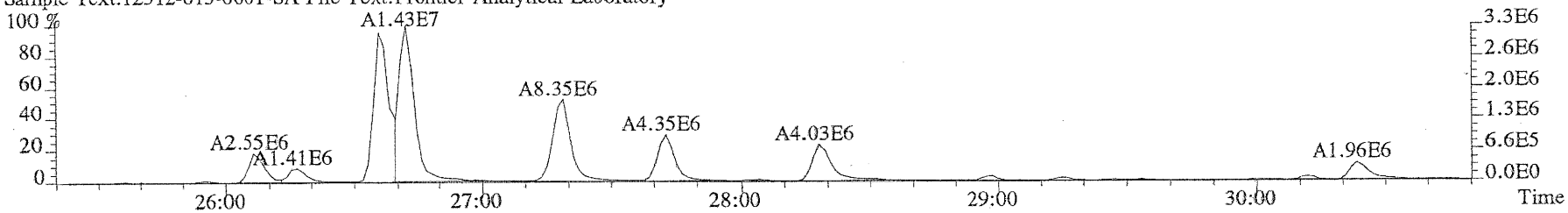
File:05AUG19Z #1-520 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



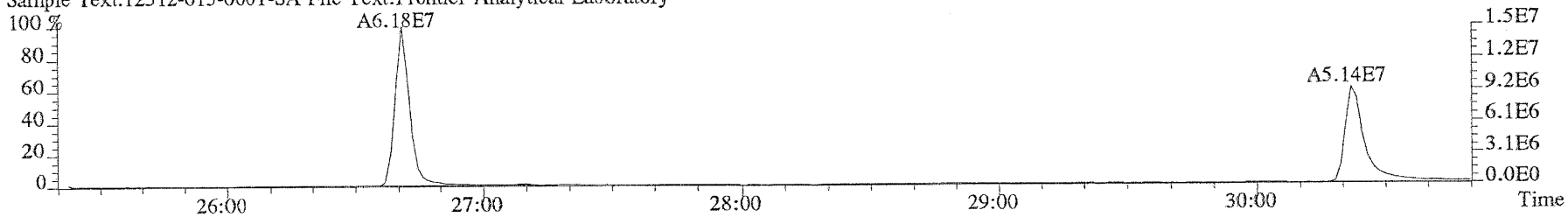
File:05AUG19Z #1-402 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



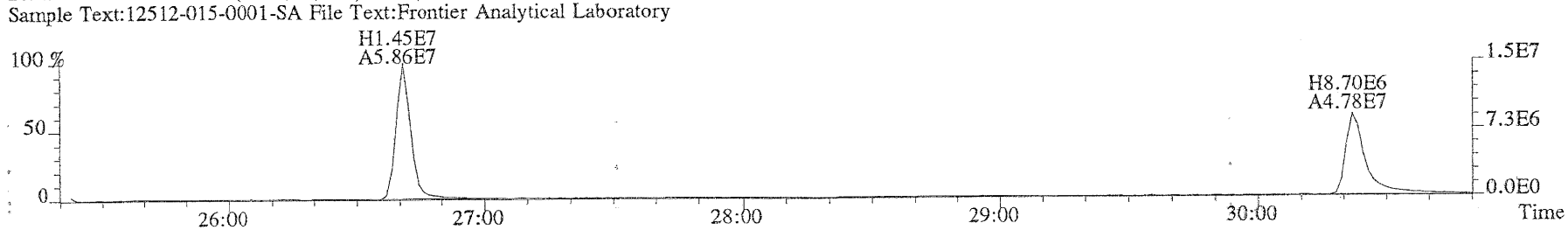
File:05AUG19Z #1-402 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



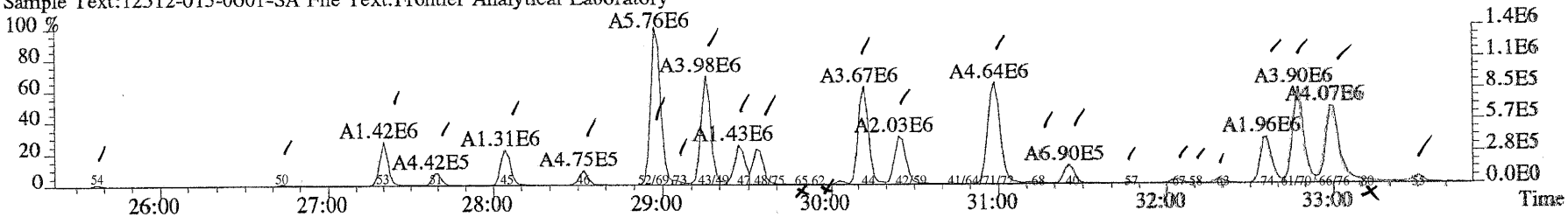
File:05AUG19Z #1-402 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



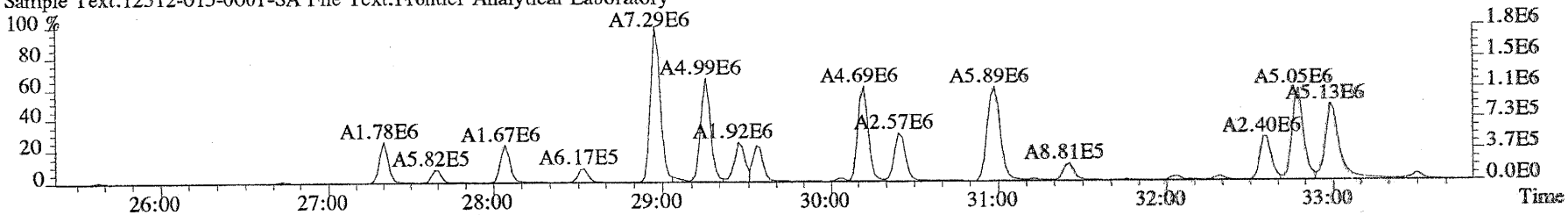
File:05AUG19Z #1-402 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



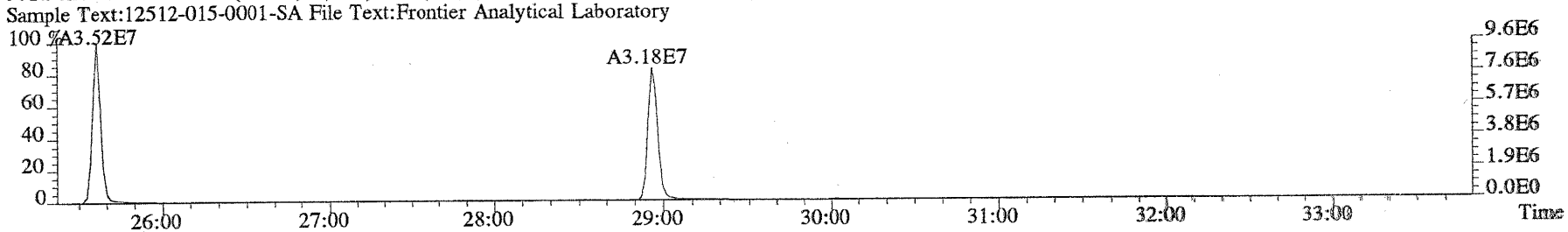
File:05AUG19Z #1-402 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



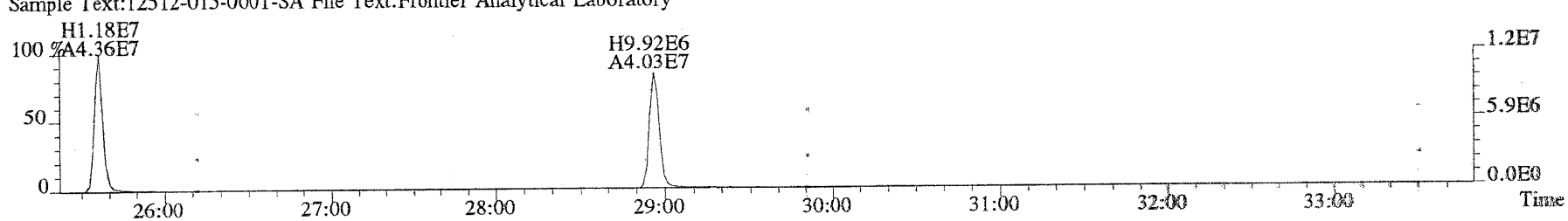
File:05AUG19Z #1-402 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



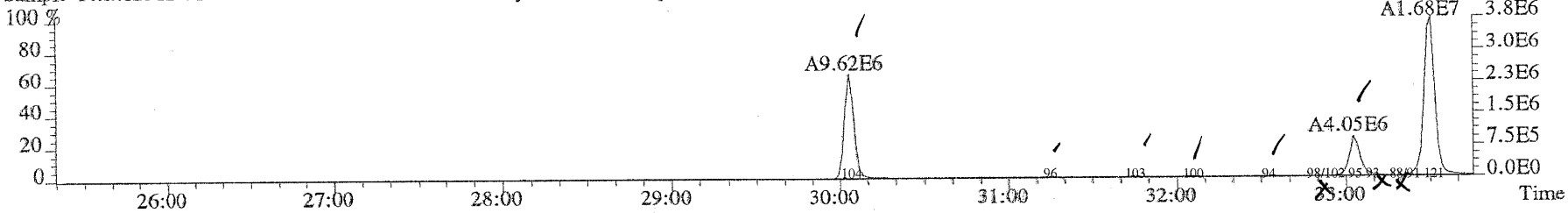
File:05AUG19Z #1-402 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



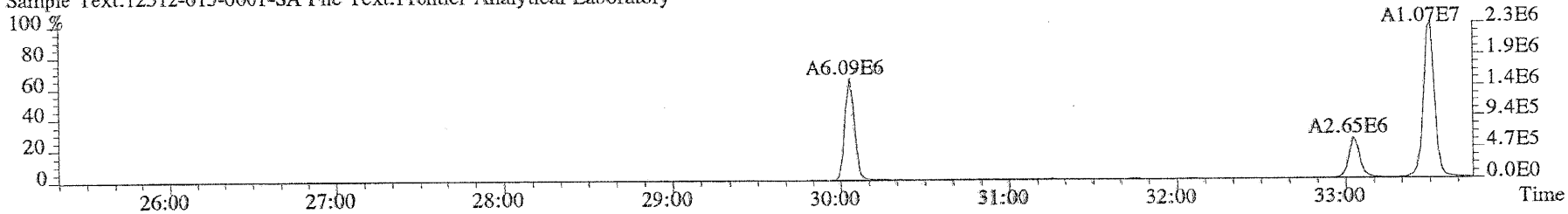
File:05AUG19Z #1-402 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



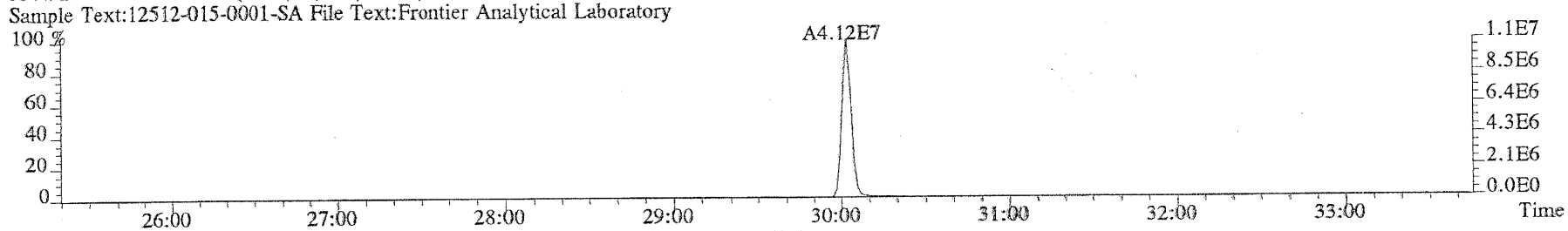
File:05AUG19Z #1-402 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



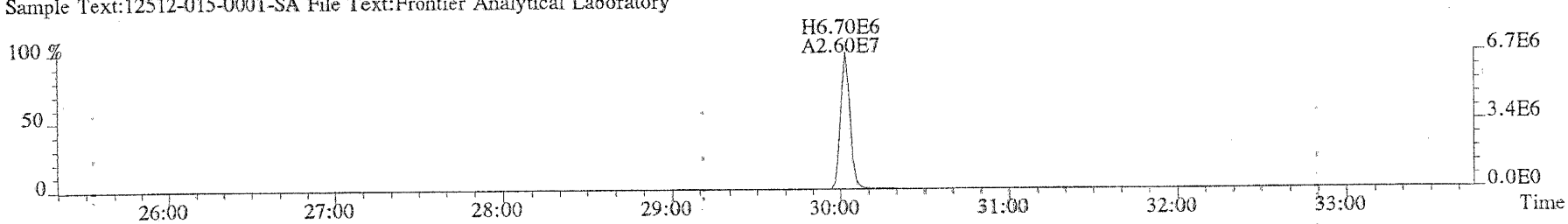
File:05AUG19Z #1-402 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



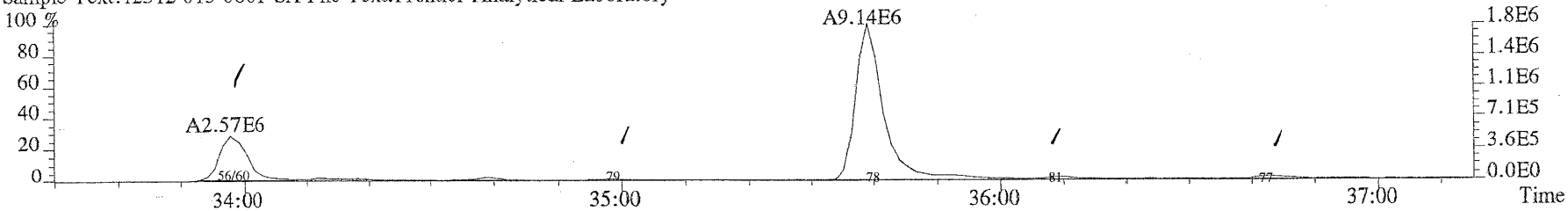
File:05AUG19Z #1-402 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



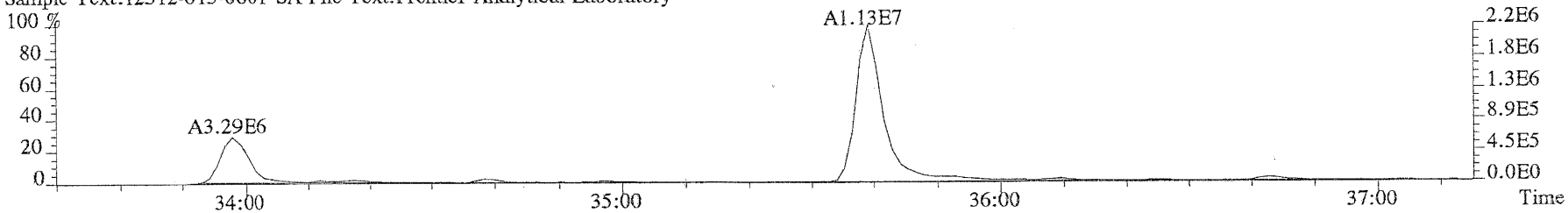
File:05AUG19Z #1-402 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



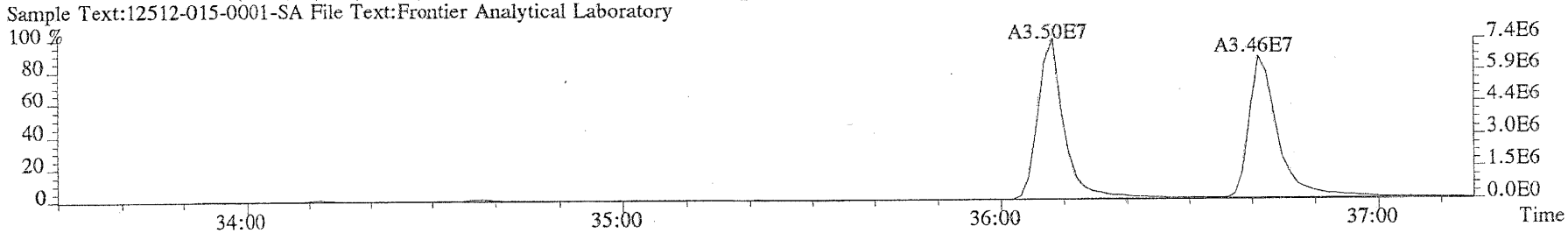
File:05AUG19Z #1-180 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



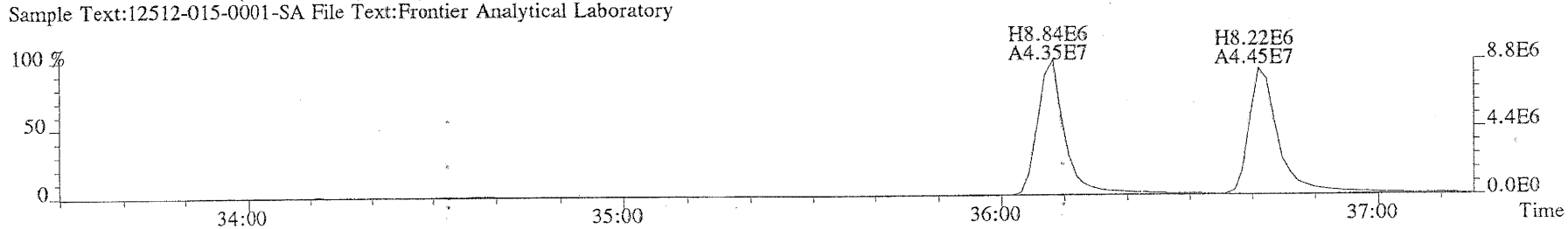
File:05AUG19Z #1-180 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



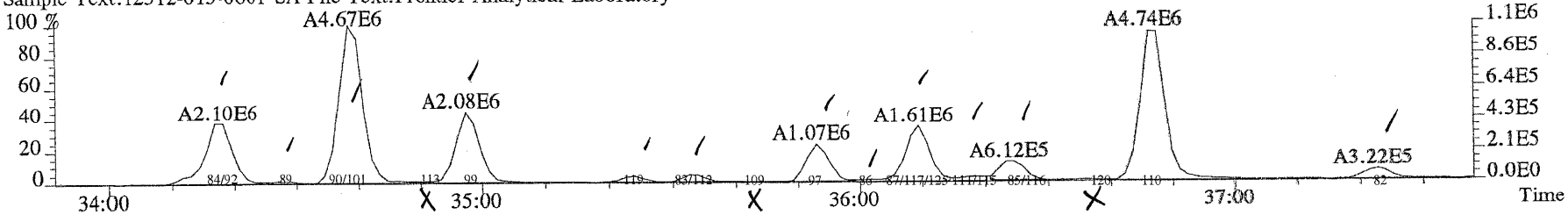
File:05AUG19Z #1-180 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



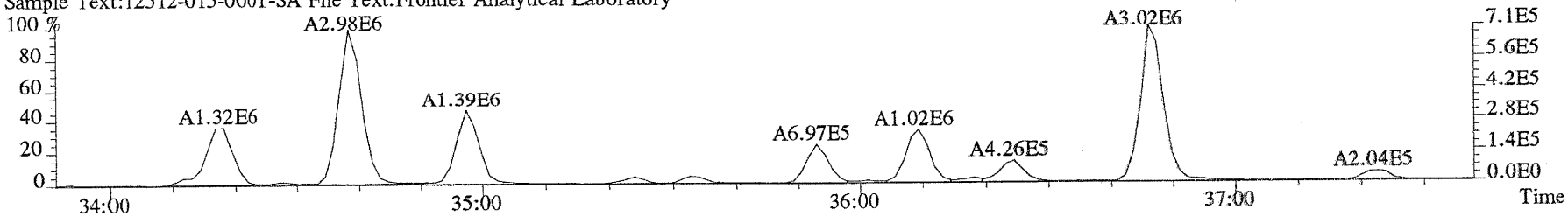
File:05AUG19Z #1-180 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



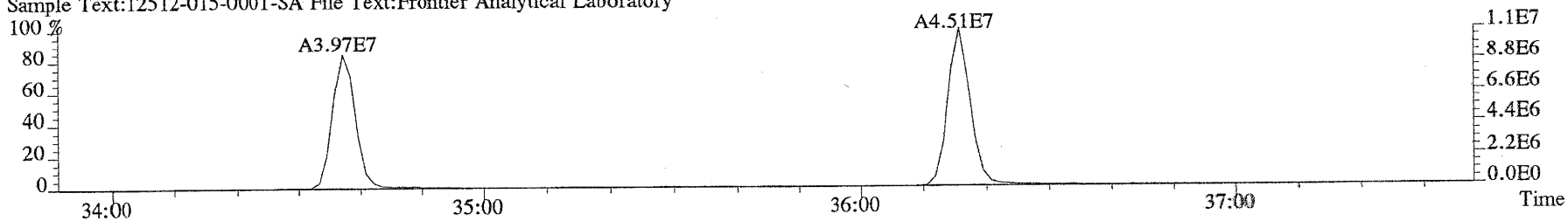
File:05AUG19Z #1-180 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



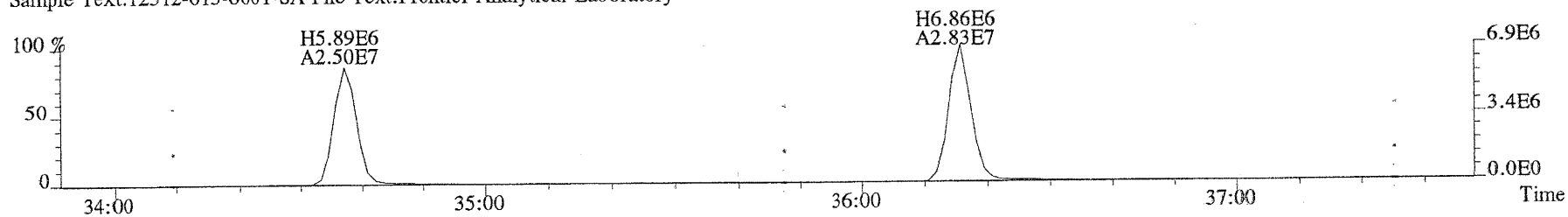
File:05AUG19Z #1-180 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



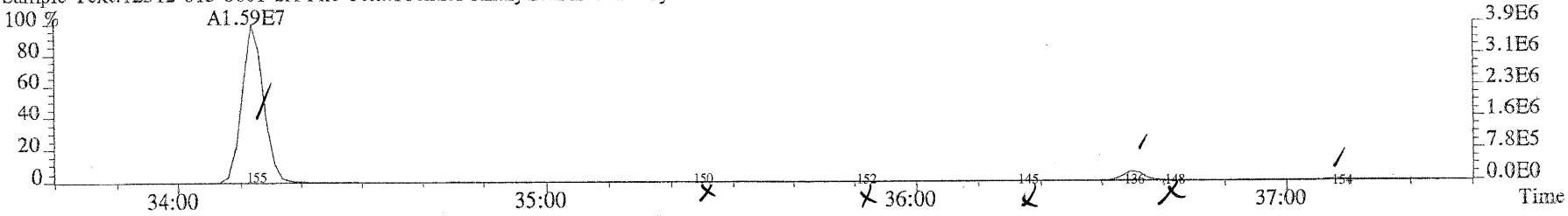
File:05AUG19Z #1-180 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



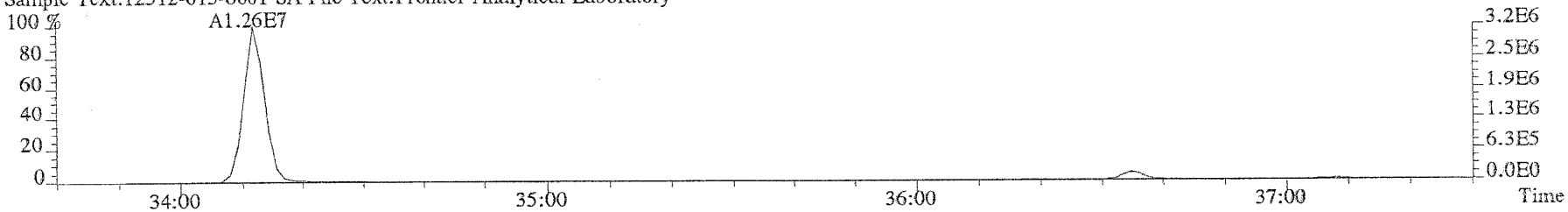
File:05AUG19Z #1-180 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



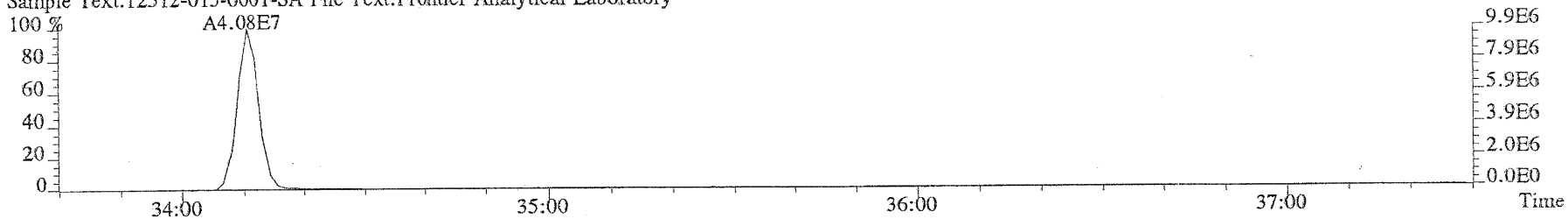
File:05AUG19Z #1-180 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



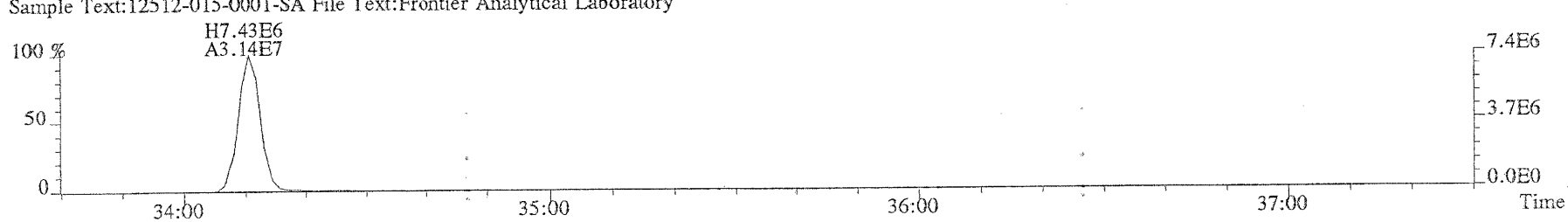
File:05AUG19Z #1-180 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



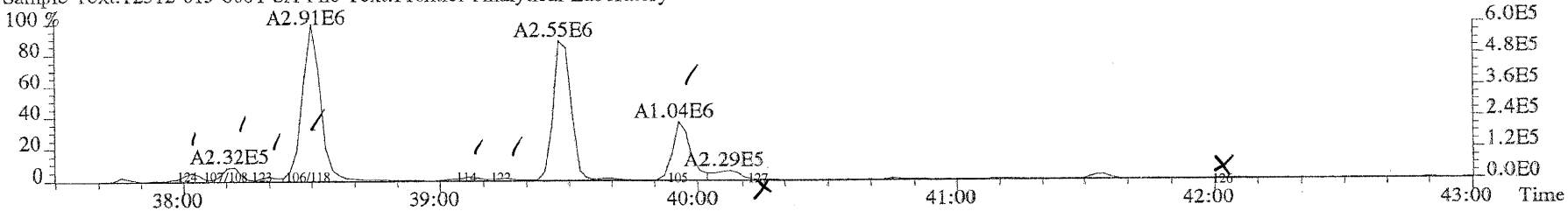
File:05AUG19Z #1-180 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



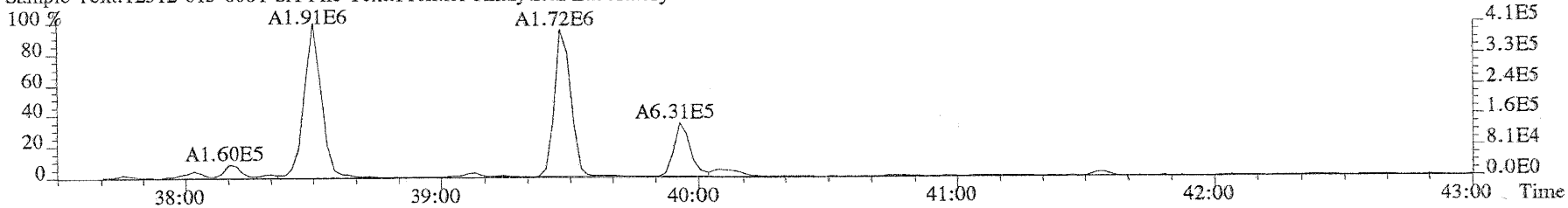
File:05AUG19Z #1-180 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



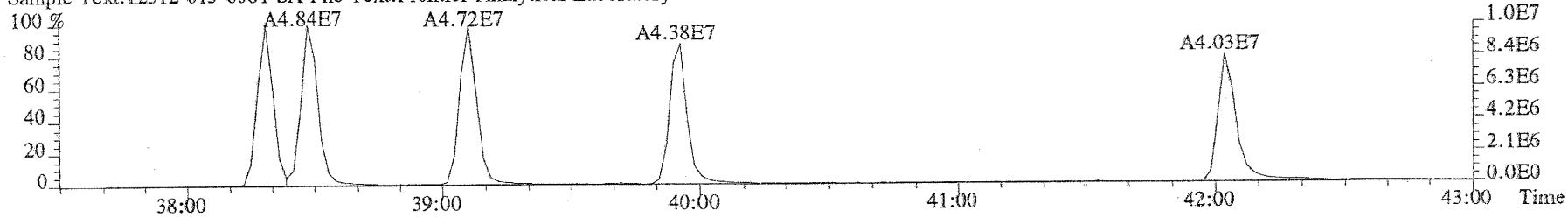
File:05AUG19Z #1-405 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



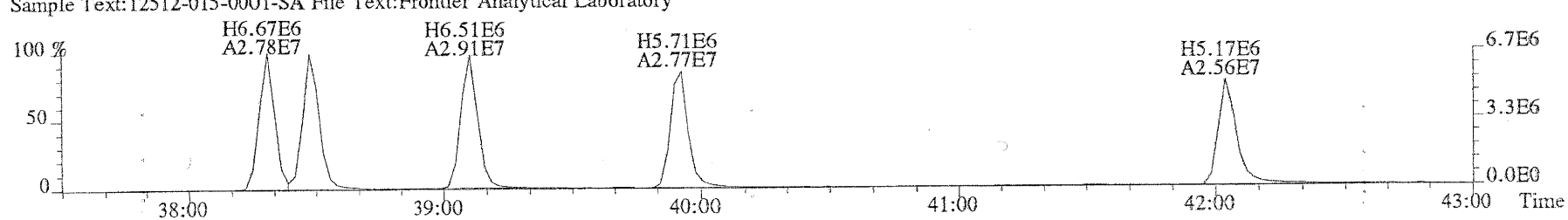
File:05AUG19Z #1-405 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



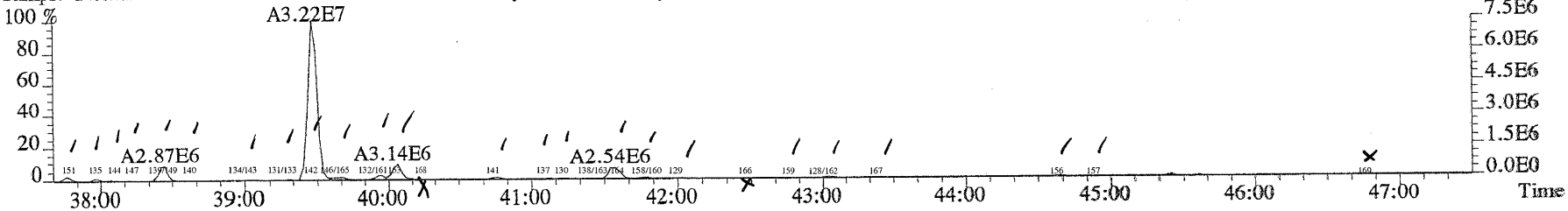
File:05AUG19Z #1-405 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



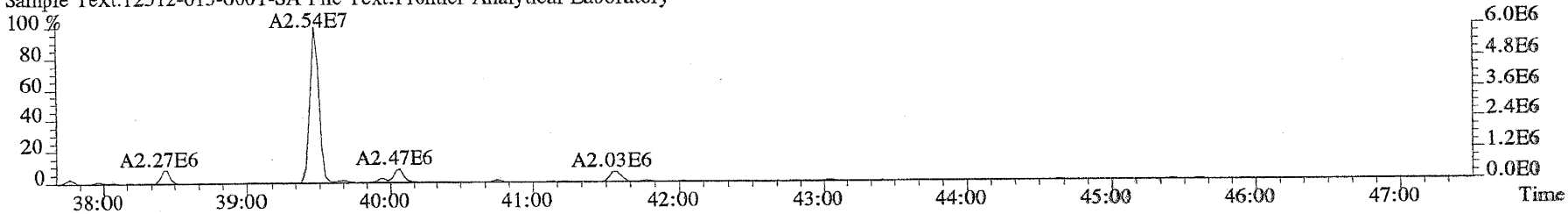
File:05AUG19Z #1-405 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



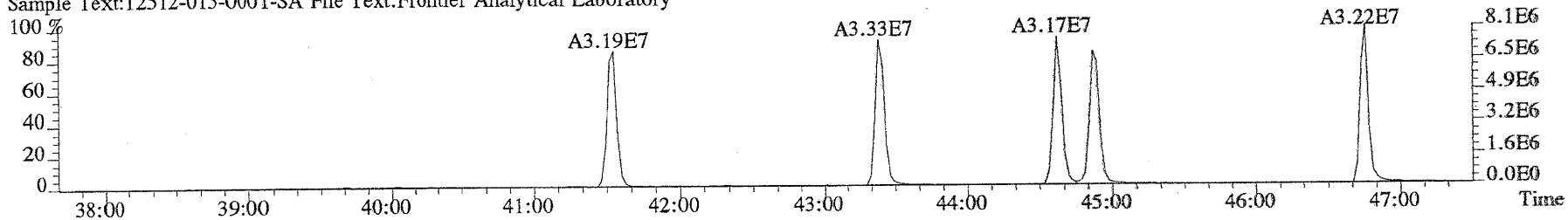
File:05AUG19Z #1-405 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



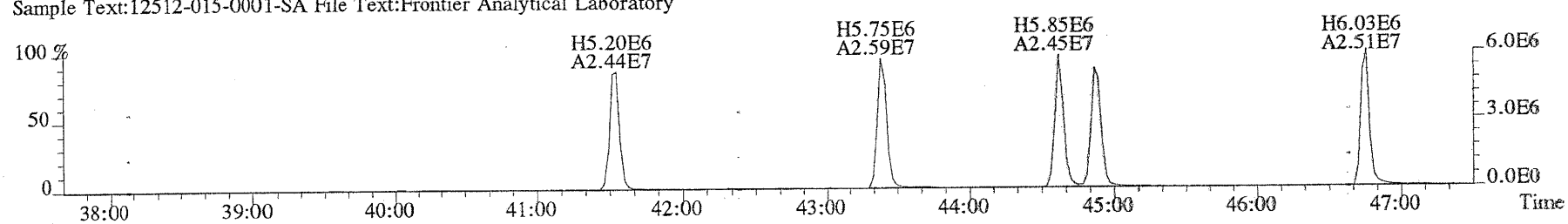
File:05AUG19Z #1-405 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



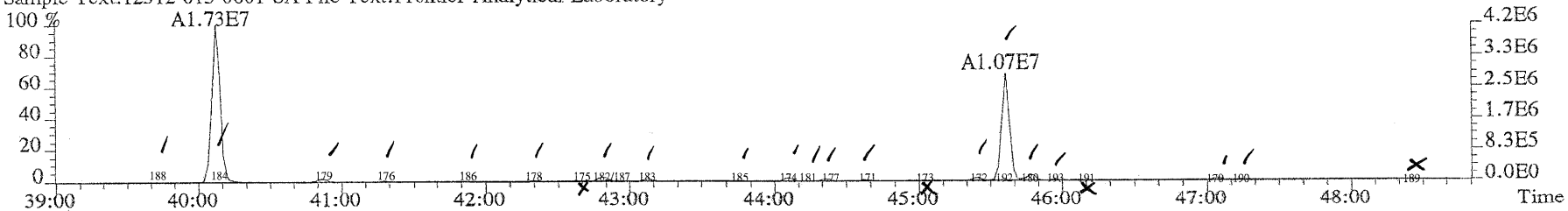
File:05AUG19Z #1-405 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



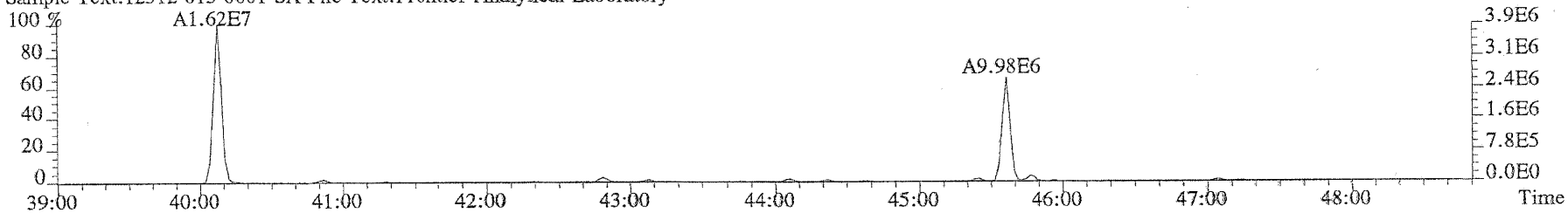
File:05AUG19Z #1-405 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



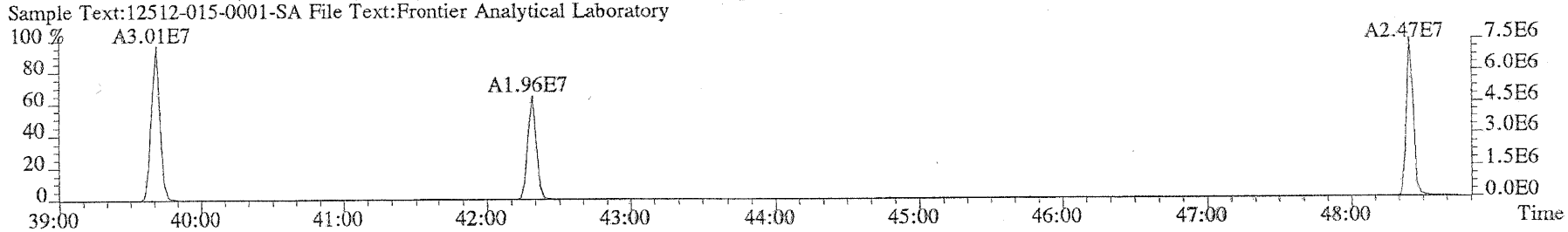
File:05AUG19Z #1-405 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



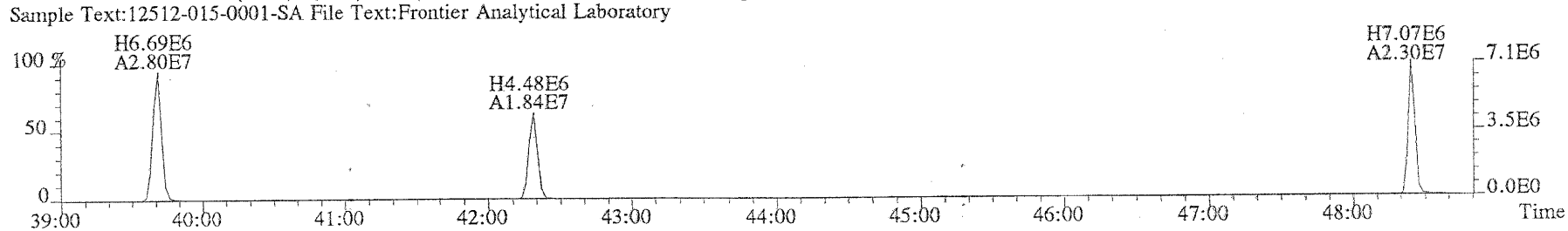
File:05AUG19Z #1-405 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



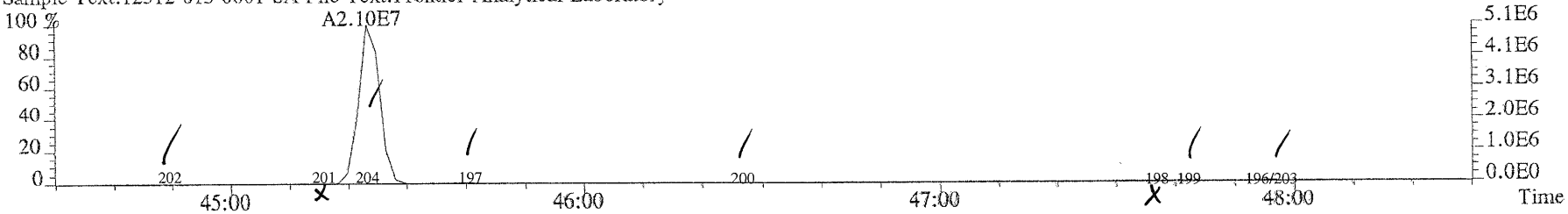
File:05AUG19Z #1-405 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



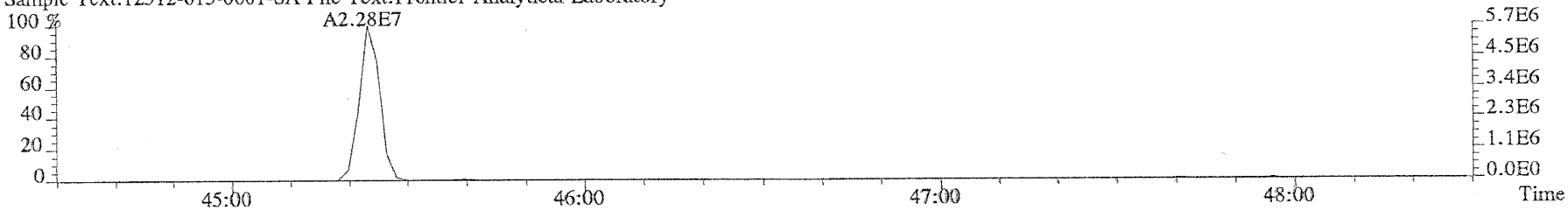
File:05AUG19Z #1-405 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



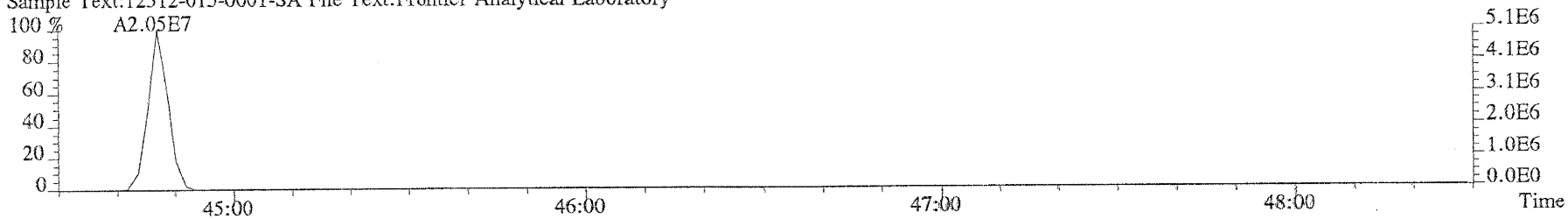
File:05AUG19Z #1-405 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



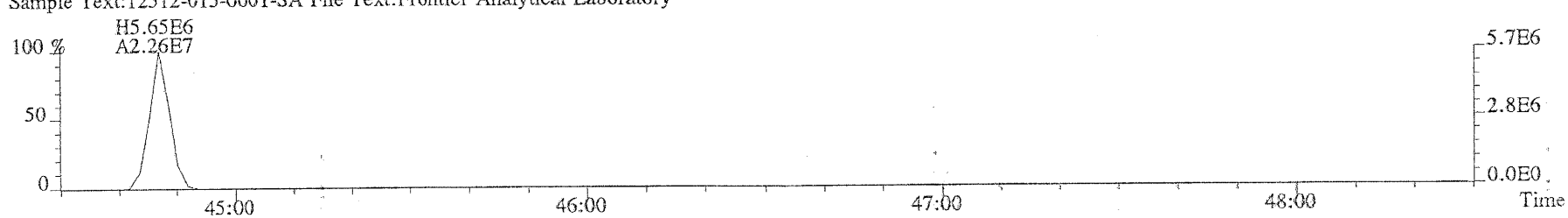
File:05AUG19Z #1-405 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



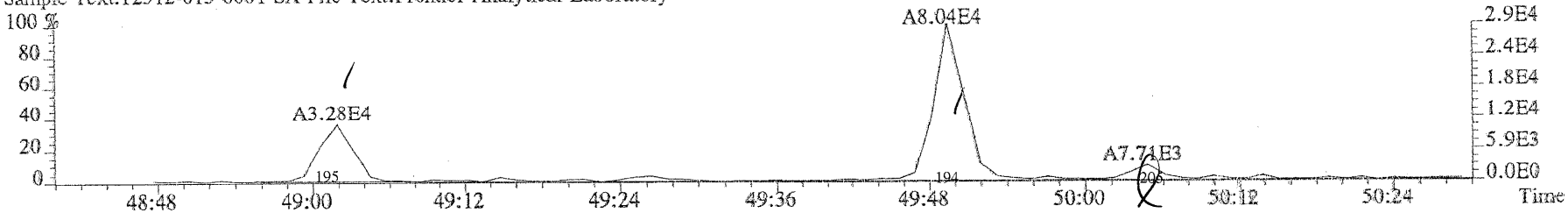
File:05AUG19Z #1-405 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



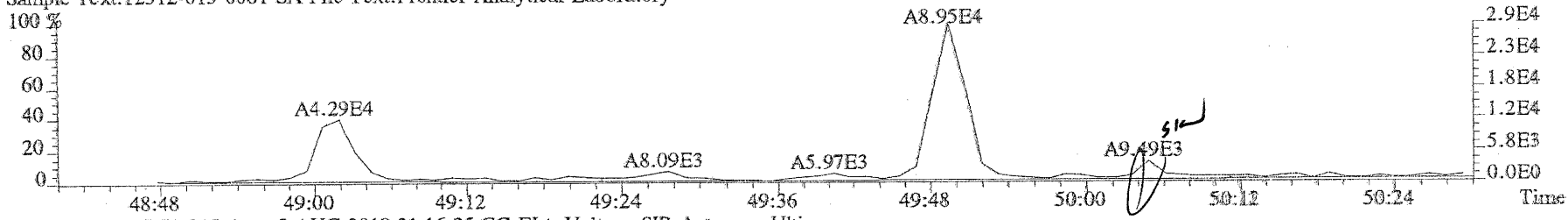
File:05AUG19Z #1-405 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



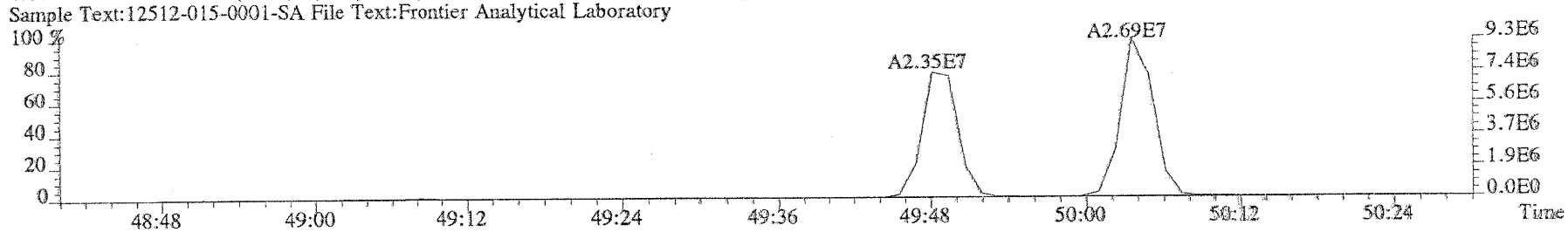
File:05AUG19Z #1-315 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



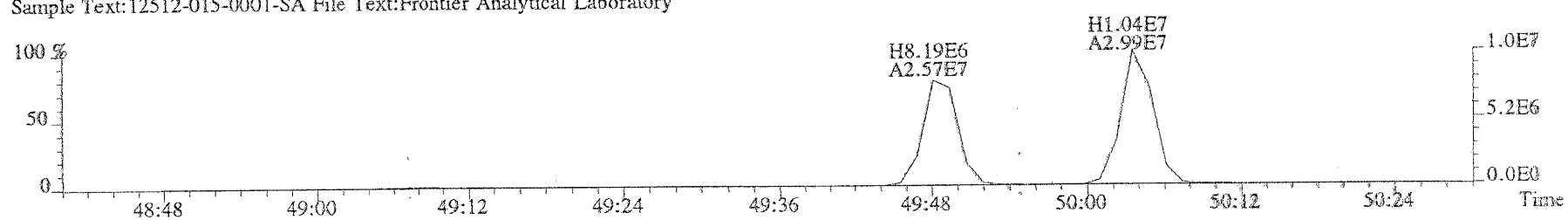
File:05AUG19Z #1-315 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



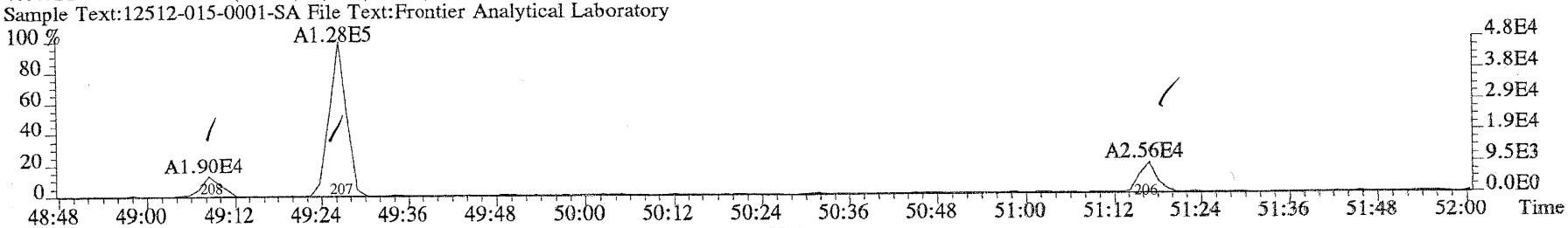
File:05AUG19Z #1-315 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



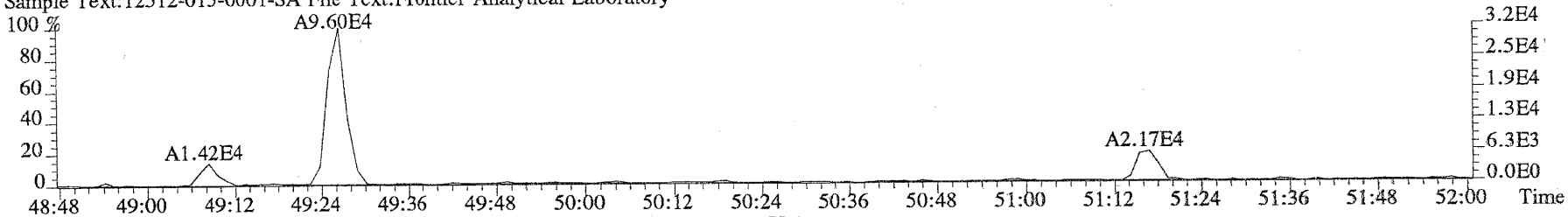
File:05AUG19Z #1-315 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



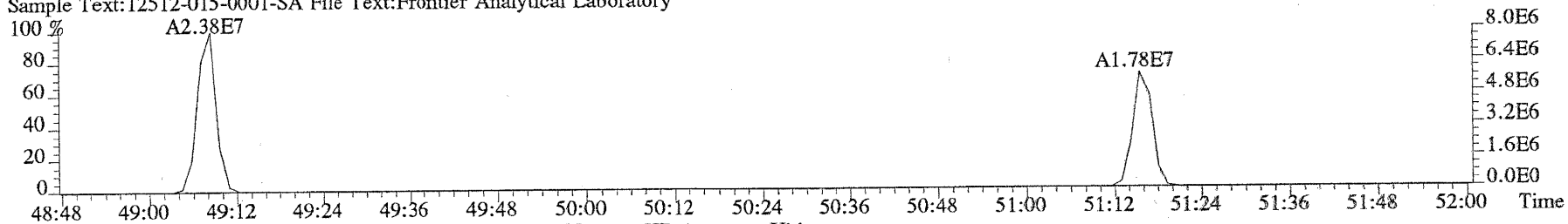
File:05AUG19Z #1-315 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



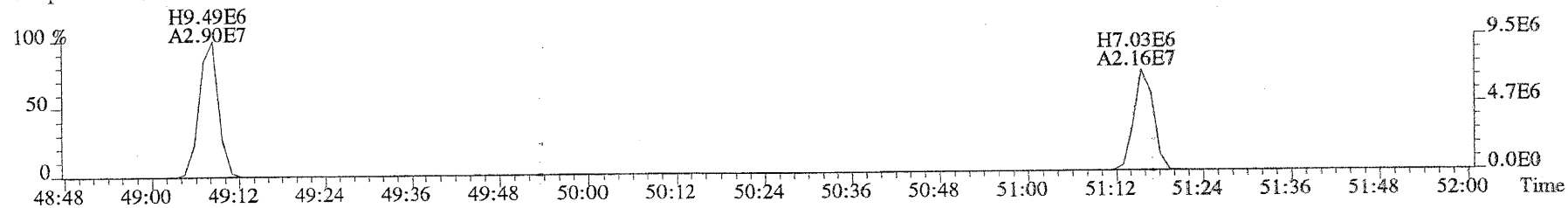
File:05AUG19Z #1-315 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



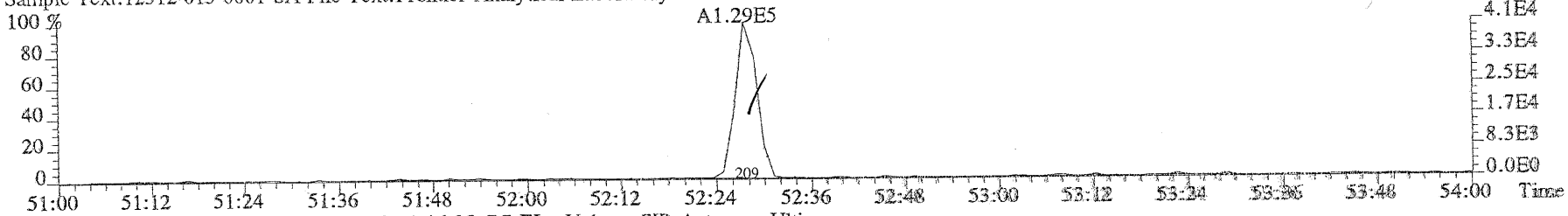
File:05AUG19Z #1-315 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



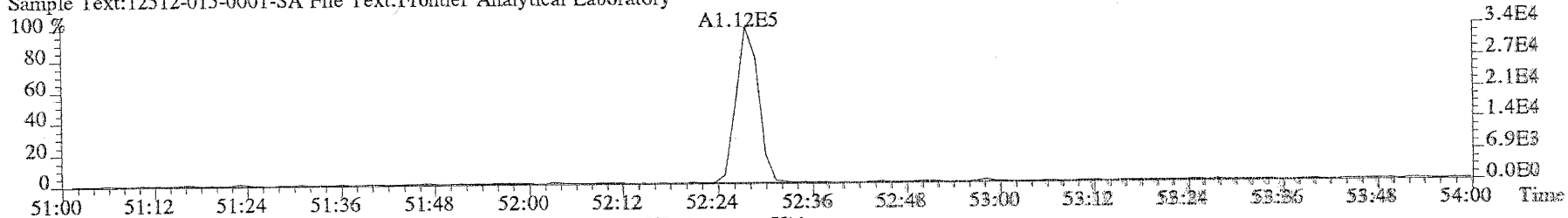
File:05AUG19Z #1-315 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



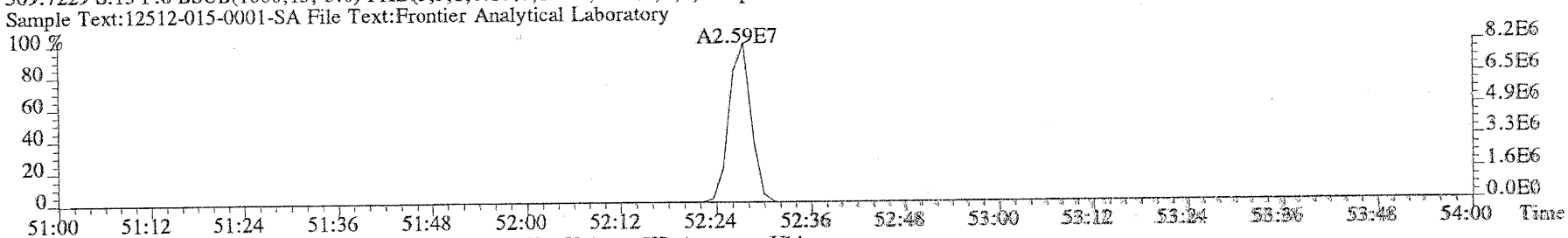
File:05AUG19Z #1-315 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



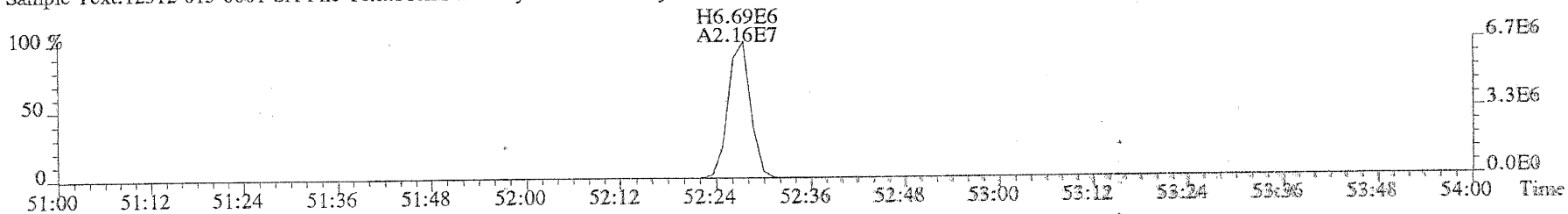
File:05AUG19Z #1-315 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-015-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 21:16:25 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:12512-015-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 21:16:25 GC EI+ Voltage SIR Autospec-Ultima
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:12512-015-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12512-016-0001-SA Filename: 05AUG19Z Sam:14 Acquired: 5-AUG-19 22:14:45 ICal: DAILY209FAL4-8-5-19
Client ID: LDW-Y2-SC-ENR+AC-CA/AC-CD-S010 ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 12511-9 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	4.81e+04	3.22 y	14:34	1.19	3.19	J	-	-	*	
13C-PCB-1	1.27e+08	3.20 y	14:33	0.92	8860					88.6
PCB-2	*	* n	NotFnd	1.17	*		1480	1100	1.44	
PCB-3	*	* n	NotFnd	1.22	*		1480	1100	1.53	
13C-PCB-3	1.23e+08	3.34 y	16:59	0.87	9040					90.4
PCB-4	7.71e+05	1.55 y	18:13	1.25	67.8		-	-	*	
PCB-10	1.07e+05	1.47 y	18:17	1.30	7.15	J	-	-	*	
13C-PCB-4	9.12e+07	1.55 y	18:12	0.71	8170					81.7
PCB-9	2.44e+05	1.45 y	19:53	1.37	15.4	J	-	-	*	
PCB-7	1.70e+05	1.46 y	19:56	1.36	10.8	J	-	-	*	
PCB-6	8.91e+05	1.50 y	20:32	1.59	48.5		-	-	*	
PCB-8	3.93e+06	1.38 y	20:54	1.33	256		-	-	*	
PCB-5	*	* n	NotFnd	1.34	*		824	7470	5.40	
PCB-14	7.19e+06	1.44 y	21:58	1.30	479		-	-	*	
PCB-11	6.34e+05	1.42 y	23:07	1.18	46.7		-	-	*	
PCB-13	*	* n	NotFnd	1.24	*		824	7470	5.86	
PCB-12	*	* n	NotFnd	1.25	*		824	7470	5.81	
PCB-15	1.19e+06	1.50 y	23:46	1.12	76.0		-	-	*	
13C-PCB-15	1.40e+08	1.59 y	23:44	0.95	9360					93.6
PCB-19	8.85e+05	1.08 y	22:06	1.19	108		-	-	*	
PCB-30	*	* n	NotFnd	1.71	*		1630	532	1.66	
PCB-18	7.29e+06	1.05 y	23:39	1.13	932		-	-	*	
PCB-17	3.29e+06	1.06 y	23:48	1.27	373		-	-	*	
PCB-27	4.55e+05	1.07 y	24:20	1.58	41.4		-	-	*	
PCB-24	5.48e+05	0.99 y	24:21	1.67	47.3		-	-	*	
PCB-16	2.76e+06	1.07 y	24:50	1.24	322		-	-	*	
PCB-32	2.84e+06	1.05 y	24:51	1.60	256		-	-	*	
13C-PCB-19	6.94e+07	1.09 y	22:05	0.50	8830					88.3
13C-PCB-9	1.57e+08	1.57 y	19:53	-	92.5					
PCB-34	6.84e+04	1.03 y	25:36	1.28	4.50	J	-	-	*	
PCB-23	*	* n	NotFnd	1.28	*		1400	1170	2.24	
PCB-29	1.17e+05	1.17 y	25:56	1.29	7.58	J	-	-	*	
PCB-26	2.04e+06	1.02 y	26:07	1.26	136		-	-	*	
PCB-25	1.11e+06	1.15 y	26:18	1.26	74.2		-	-	*	
PCB-31	8.54e+06	1.02 y	26:38	1.26	572		-	-	*	
PCB-28	1.07e+07	1.04 y	26:43	1.55	581		-	-	*	
PCB-20	6.66e+06	1.06 y	27:19	1.25	449		-	-	*	Co-elute PCB 21/33
PCB-21	6.66e+06	1.06 y	27:19	1.25	449		-	-	*	Co-elute PCB 20/33
PCB-33	6.66e+06	1.06 y	27:19	1.25	449		-	-	*	Co-elute PCB 20/21
PCB-22	3.59e+06	1.04 y	27:43	1.38	219		-	-	*	
PCB-36	7.95e+06	1.07 y	28:19	1.23	545		-	-	*	
PCB-39	*	* n	NotFnd	1.23	*		1400	1170	2.35	
PCB-38	*	* n	NotFnd	1.26	*		1400	1170	2.29	
PCB-35	1.20e+05	1.03 y	30:03	1.11	9.13	J	-	-	*	
PCB-37	1.67e+06	1.07 y	30:24	1.16	121		-	-	*	
13C-PCB-37	1.19e+08	1.11 y	30:23	1.52	8980					89.8

PCB-54	5.93e+04	0.69	y	25:37	1.23	5.27	J	-	-	*	
PCB-50	6.82e+04	0.85	y	26:44	0.93	7.96	J	-	-	*	
PCB-53	1.29e+06	0.79	y	27:21	0.91	155		-	-	*	
PCB-51	4.52e+05	0.76	y	27:41	0.92	53.2		-	-	*	
PCB-45	1.23e+06	0.82	y	28:05	0.78	172		-	-	*	
PCB-46	4.59e+05	0.81	y	28:32	0.74	67.6		-	-	*	
PCB-52	6.03e+06	0.80	y	28:58	0.89	737		-	-	*	Co-elute PCB 69
PCB-69	6.03e+06	0.80	y	28:58	0.89	737		-	-	*	Co-elute PCB 52
PCB-73	2.00e+05	0.81	y	29:04	1.15	19.0	J	-	-	*	
PCB-43	4.17e+06	0.81	y	29:16	0.79	575		-	-	*	Co-elute PCB 49
PCB-49	4.17e+06	0.81	y	29:16	0.79	575		-	-	*	Co-elute PCB 43
PCB-47	1.62e+06	0.80	y	29:27	0.87	202		-	-	*	
PCB-48	1.44e+06	0.79	y	29:33	1.00	157		-	-	*	Co-elute PCB 75
PCB-75	1.44e+06	0.79	y	29:33	1.00	157		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*		1080	1220	2.47	
PCB-62	*	*	n	NotFnd	1.07	*		1080	1220	2.31	
PCB-44	3.86e+06	0.79	y	30:13	0.68	616		-	-	*	
PCB-42	2.11e+06	0.79	y	30:25	0.90	255		-	-	*	Co-elute PCB 59
PCB-59	2.11e+06	0.79	y	30:25	0.90	255		-	-	*	Co-elute PCB 42
PCB-72	4.94e+06	0.78	y	30:59	0.99	546		-	-	*	Co-elute PCB 41/71/64
PCB-41	4.94e+06	0.78	y	30:59	0.99	546		-	-	*	Co-elute PCB 72/71/64
PCB-71	4.94e+06	0.78	y	30:59	0.99	546		-	-	*	Co-elute PCB 72/41/64
PCB-64	4.94e+06	0.78	y	30:59	0.99	546		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.41e+05	0.72	y	31:13	1.12	13.6	J	-	-	*	
PCB-40	7.38e+05	0.78	y	31:25	0.63	127		-	-	*	
PCB-57	5.86e+04	0.84	y	31:44	1.03	6.22	J	-	-	*	
PCB-67	1.88e+05	0.86	y	32:04	0.95	21.5		-	-	*	
PCB-58	*	*	n	NotFnd	1.11	*		1080	1220	2.24	
PCB-63	1.86e+05	0.80	y	32:19	1.02	19.9	J	-	-	*	
PCB-74	2.08e+06	0.77	y	32:37	0.99	229		-	-	*	
PCB-61	4.50e+06	0.81	y	32:48	0.95	515		-	-	*	Co-elute PCB 70
PCB-70	4.50e+06	0.81	y	32:48	0.95	515		-	-	*	Co-elute PCB 61
PCB-76	4.33e+06	0.79	y	33:00	1.06	443		-	-	*	Co-elute PCB 66
PCB-66	4.33e+06	0.79	y	33:00	1.06	443		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.20	*		1080	1220	2.06	
PCB-55	4.40e+05	0.73	y	33:30	1.04	45.9		-	-	*	
13C-PCB-54	9.18e+07	0.80	y	25:37	1.36	7740					77.4
PCB-104	1.28e+07	1.57	y	30:04	1.10	1490		-	-	*	
PCB-96	6.14e+04	1.33	y	31:16	1.03	7.58	J	-	-	*	
PCB-103	8.55e+04	1.34	y	31:46	0.81	13.4	J	-	-	*	
PCB-100	7.58e+04	1.58	y	32:06	0.81	11.9	J	-	-	*	
PCB-94	2.38e+04	1.34	y	32:32	0.67	4.55	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.68	*		308	292	1.18	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.68	*		308	292	1.18	Co-elute PCB 98
PCB-95	3.11e+06	1.56	y	33:03	0.78	510		-	-	*	
PCB-93	*	*	n	NotFnd	0.73	*		308	292	1.10	
PCB-88	*	*	n	NotFnd	0.76	*		308	292	1.06	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.76	*		308	292	1.06	Co-elute PCB 88
PCB-121	2.18e+07	1.58	y	33:30	0.94	2950		-	-	*	
13C-PCB-104	7.84e+07	1.59	y	30:03	1.05	8600					86.0
13C-PCB-28	1.32e+08	1.03	y	26:42	1.82	8340					83.4
13C-PCB-52	8.71e+07	0.80	y	28:57	-	107					

PCB-56	2.85e+06	0.79	y	33:59	1.14	283		-	-	*	Co-elute PCB 60
PCB-60	2.85e+06	0.79	y	33:59	1.14	283		-	-	*	Co-elute PCB 56
PCB-79	7.68e+04	0.81	y	34:58	1.22	7.12	J	-	-	*	
PCB-78	1.65e+07	0.82	y	35:39	1.17	1610		-	-	*	
PCB-81	2.08e+05	0.81	y	36:10	1.29	18.1	J	-	-	*	
13C-PCB-81	8.87e+07	0.79	y	36:08	1.32	9010					90.1
PCB-77	2.56e+05	0.76	y	36:43	1.11	26.3		-	-	*	
13C-PCB-77	8.75e+07	0.80	y	36:42	1.39	8470					84.7
PCB-155	2.21e+07	1.26	y	34:13	1.03	2560		-	-	*	
PCB-150	*	*	n	NotFnd	0.96	*		657	680	1.73	
PCB-152	*	*	n	NotFnd	0.95	*		657	680	1.75	
PCB-145	*	*	n	NotFnd	0.90	*		657	680	1.86	
PCB-136	6.82e+05	1.22	y	36:35	0.97	83.5		-	-	*	
PCB-148	*	*	n	NotFnd	0.60	*		657	680	2.80	
PCB-154	1.20e+05	1.29	y	37:08	0.78	18.1	J	-	-	*	
13C-PCB-155	8.39e+07	1.29	y	34:11	1.43	7880					78.8
13C-PCB-111	7.81e+07	1.58	y	36:16	1.12	9390					93.9
13C-PCB-101	7.45e+07	1.60	y	34:38	-	119					
PCB-84	1.64e+06	1.56	y	34:18	0.86	229		-	-	*	Co-elute PCB 92
PCB-92	1.64e+06	1.56	y	34:18	0.86	229		-	-	*	Co-elute PCB 84
PCB-89	5.53e+04	1.41	y	34:28	0.88	7.49	J	-	-	*	
PCB-90	3.60e+06	1.54	y	34:39	0.89	483		-	-	*	Co-elute PCB 101
PCB-101	3.60e+06	1.54	y	34:39	0.89	483		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.06	*		1810	1550	4.56	
PCB-99	1.62e+06	1.58	y	34:58	0.97	199		-	-	*	
PCB-119	1.32e+05	1.67	y	35:25	1.07	14.8	J	-	-	*	
PCB-83	1.72e+05	1.73	y	35:33	0.87	23.6		-	-	*	Co-elute PCB 112
PCB-112	1.72e+05	1.73	y	35:33	0.87	23.6		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.01	*		1810	1550	4.76	
PCB-97	8.00e+05	1.57	y	35:52	0.68	141		-	-	*	
PCB-86	5.74e+04	1.46	y	36:01	0.77	8.88	J	-	-	*	
PCB-125	1.17e+06	1.54	y	36:10	0.90	156		-	-	*	Co-elute PCB 87/117
PCB-87	1.17e+06	1.54	y	36:10	0.90	156		-	-	*	Co-elute PCB 125/117
PCB-117	1.17e+06	1.54	y	36:10	0.90	156		-	-	*	Co-elute PCB 125/87
PCB-111	7.01e+04	1.59	y	36:18	1.04	8.09	J	-	-	*	Co-elute PCB 115
PCB-115	7.01e+04	1.59	y	36:18	1.04	8.09	J	-	-	*	Co-elute PCB 111
PCB-85	4.76e+05	1.46	y	36:24	0.85	66.7		-	-	*	Co-elute PCB 116
PCB-116	4.76e+05	1.46	y	36:24	0.85	66.7		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.04	*		1810	1550	4.65	
PCB-110	3.53e+06	1.55	y	36:47	0.99	426		-	-	*	
PCB-82	2.60e+05	1.48	y	37:23	0.57	54.5		-	-	*	
PCB-124	1.23e+05	1.35	y	38:01	1.12	13.1	J	-	-	*	
PCB-108	1.74e+05	1.45	y	38:11	1.10	18.9	J	-	-	*	Co-elute PCB 107
PCB-107	1.74e+05	1.45	y	38:11	1.10	18.9	J	-	-	*	Co-elute PCB 108
PCB-123	4.41e+04	1.73	y	38:20	1.03	5.24	J	-	-	*	
13C-PCB-123	8.15e+07	1.63	y	38:18	1.30	9670					96.7
PCB-118	2.17e+06	1.52	y	38:29	1.06	241		-	-	*	Co-elute PCB 106
PCB-106	2.17e+06	1.52	y	38:29	1.06	241		-	-	*	Co-elute PCB 118
13C-PCB-118	8.49e+07	1.58	y	38:29	1.44	9130					91.3
PCB-114	8.01e+04	1.38	y	39:07	1.19	7.97	J	-	-	*	
13C-PCB-114	8.46e+07	1.61	y	39:06	1.33	9800					98.0
PCB-122	3.70e+04	1.46	y	39:15	1.06	4.15	J	-	-	*	
PCB-105	7.91e+05	1.43	y	39:57	1.11	85.2		-	-	*	
13C-PCB-105	8.34e+07	1.60	y	39:55	1.36	9440					94.4

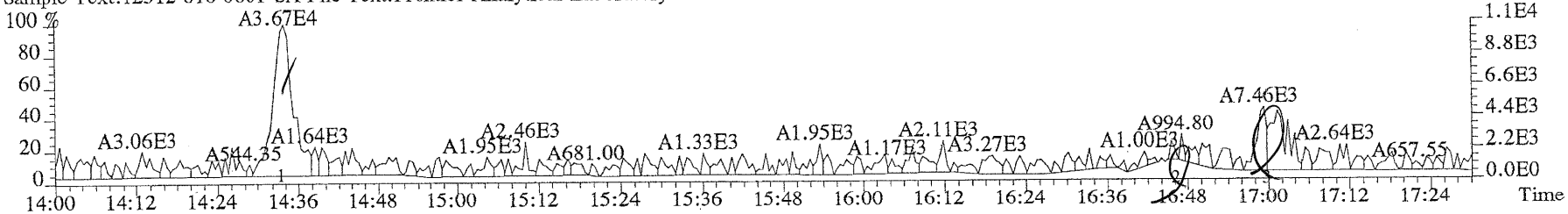
PCB-127	*	*	n	NotFnd	1.03	*		660	932	2.22	
PCB-126	*	*	n	NotFnd	1.08	*		660	932	2.57	
13C-PCB-126	7.68e+07	1.60	y	42:03	1.24	9550					95.5
PCB-151	6.93e+05	1.26	y	37:47	0.84	120		-	-	*	
PCB-135	3.35e+05	1.15	y	37:58	0.91	53.3		-	-	*	
PCB-144	1.56e+05	1.31	y	38:05	0.96	23.7		-	-	*	
PCB-147	6.16e+04	1.22	y	38:13	1.00	8.94	J	-	-	*	
PCB-139	2.48e+06	1.27	y	38:26	1.08	334		-	-	*	Co-elute PCB 149
PCB-149	2.48e+06	1.27	y	38:26	1.08	334		-	-	*	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	1.01	*		904	740	2.60	
PCB-143	1.34e+05	1.23	y	39:02	0.84	23.0		-	-	*	Co-elute PCB 134
PCB-134	1.34e+05	1.23	y	39:02	0.84	23.0		-	-	*	Co-elute PCB 143
PCB-131	5.89e+04	1.11	y	39:19	0.86	9.95	J	-	-	*	Co-elute PCB 133
PCB-133	5.89e+04	1.11	y	39:19	0.86	9.95	J	-	-	*	Co-elute PCB 131
PCB-142	4.18e+07	1.25	y	39:29	0.83	7300		-	-	*	
PCB-165	5.42e+05	1.28	y	39:39	1.14	69.0		-	-	*	Co-elute PCB 146
PCB-146	5.42e+05	1.28	y	39:39	1.14	69.0		-	-	*	Co-elute PCB 165
PCB-161	6.61e+05	1.22	y	39:57	1.06	90.1		-	-	*	Co-elute PCB 132
PCB-132	6.61e+05	1.22	y	39:57	1.06	90.1		-	-	*	Co-elute PCB 161
PCB-153	2.99e+06	1.23	y	40:03	1.15	378		-	-	*	
PCB-168	*	*	n	NotFnd	1.23	*		904	740	2.13	
PCB-141	3.46e+05	1.13	y	40:46	0.90	55.7		-	-	*	
PCB-137	7.59e+04	1.28	y	41:09	0.84	13.1	J	-	-	*	
PCB-130	1.11e+05	1.24	y	41:14	0.89	18.2	J	-	-	*	
PCB-138	2.30e+06	1.30	y	41:34	1.15	289		-	-	*	Co-elute PCB 163/164
PCB-163	2.30e+06	1.30	y	41:34	1.15	289		-	-	*	Co-elute PCB 138/164
PCB-164	2.30e+06	1.30	y	41:34	1.15	289		-	-	*	Co-elute PCB 138/163
PCB-158	2.59e+05	1.25	y	41:47	1.23	30.4		-	-	*	Co-elute PCB 160
PCB-160	2.59e+05	1.25	y	41:47	1.23	30.4		-	-	*	Co-elute PCB 158
PCB-129	7.75e+04	1.17	y	42:02	0.81	13.9	J	-	-	*	
PCB-166	*	*	n	NotFnd	1.18	*		904	740	2.22	
PCB-159	7.13e+04	1.38	y	42:48	1.28	8.09	J	-	-	*	
PCB-128	2.71e+05	1.36	y	43:03	1.04	37.6		-	-	*	Co-elute PCB 162
PCB-162	2.71e+05	1.36	y	43:03	1.04	37.6		-	-	*	Co-elute PCB 128
PCB-167	8.12e+04	1.15	y	43:26	1.13	10.5	J	-	-	*	
13C-PCB-167	6.84e+07	1.31	y	43:24	1.10	9610					96.1
PCB-156	1.64e+05	1.22	y	44:38	1.20	19.9	J	-	-	*	
13C-PCB-156	6.85e+07	1.29	y	44:38	1.05	10000					100
PCB-157	5.19e+04	1.13	y	44:55	1.12	6.61	J	-	-	*	
13C-PCB-157	7.03e+07	1.28	y	44:53	1.13	9560					95.6
PCB-169	*	*	n	NotFnd	1.07	*		904	740	2.12	
13C-PCB-169	6.91e+07	1.28	y	46:45	1.06	10000					100

FAL ID: 12512-016-0001-SA Filename: 05AUG19Z Sam:14 Acquired: 5-AUG-19 22:14:45 ICal: DAILY209FAL4-8-5-19
Client ID: LDW-Y2-SC-ENR+AC-CA/AC-CD-S010 ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 12511-9 GC Column: DB1MS Amount: 1.000

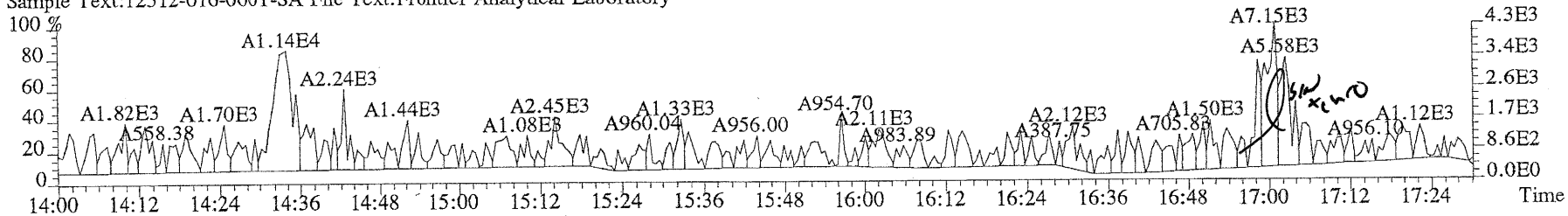
PCB-188	4.54e+04	1.14	y	39:42	1.08	6.58	J	-	-	*	
13C-PCB-188	6.40e+07	1.12	y	39:40	1.13	8720					87.2
PCB-184	2.53e+07	1.06	y	40:07	1.19	3430		-	-	*	
PCB-179	2.96e+05	1.13	y	40:53	1.08	44.0		-	-	*	
PCB-176	8.92e+04	1.05	y	41:19	1.07	13.4	J	-	-	*	
PCB-186	*	*	n	NotFnd	1.10	*		692	672	1.97	
PCB-178	9.72e+04	1.03	y	42:20	0.75	20.9		-	-	*	
PCB-175	*	*	n	NotFnd	0.74	*		692	672	2.92	
PCB-187	5.38e+05	1.19	y	42:49	0.85	101		-	-	*	Co-elute PCB 182
PCB-182	5.38e+05	1.19	y	42:49	0.85	101		-	-	*	Co-elute PCB 187
PCB-183	2.89e+05	1.11	y	43:08	0.82	56.5		-	-	*	
PCB-185	5.46e+04	1.16	y	43:45	0.75	11.7	J	-	-	*	
PCB-174	3.49e+05	1.09	y	44:05	0.78	72.1		-	-	*	
PCB-181	3.21e+04	1.09	y	44:10	0.74	6.96	J	-	-	*	
PCB-177	2.01e+05	1.15	y	44:22	0.68	47.2		-	-	*	
PCB-171	1.01e+05	1.06	y	44:38	0.76	21.5		-	-	*	
PCB-173	*	*	n	NotFnd	0.67	*		692	672	3.25	
PCB-172	4.65e+05	1.09	y	45:24	0.70	107		-	-	*	
PCB-192	1.69e+07	1.05	y	45:36	0.92	2950		-	-	*	
PCB-180	6.79e+05	1.09	y	45:47	0.70	156		-	-	*	
PCB-193	7.21e+04	1.18	y	45:55	0.99	11.7	J	-	-	*	
PCB-191	*	*	n	NotFnd	0.96	*		692	672	2.25	
PCB-170	2.45e+05	1.07	y	47:05	0.69	57.1		-	-	*	
PCB-190	7.61e+04	0.96	y	47:14	0.95	12.9	J	-	-	*	
PCB-189	*	*	n	NotFnd	1.05	*		692	672	1.86	
13C-PCB-189	6.03e+07	1.09	y	48:25	0.96	9650					96.5
PCB-202	4.01e+04	0.88	y	44:48	1.02	7.74	J	-	-	*	
PCB-201	*	*	n	NotFnd	1.06	*		288	464	1.59	
PCB-204	3.71e+07	0.91	y	45:24	1.05	7000		-	-	*	
PCB-197	2.27e+05	0.97	y	45:41	1.06	42.2		-	-	*	
PCB-200	2.81e+04	0.87	y	46:25	1.09	5.10	J	-	-	*	
PCB-198	*	*	n	NotFnd	0.78	*		288	464	2.15	
PCB-199	9.66e+04	0.87	y	47:41	0.75	25.6		-	-	*	
PCB-203	1.14e+05	0.89	y	47:56	0.86	26.2		-	-	*	Co-elute PCB 196
PCB-196	1.14e+05	0.89	y	47:56	0.86	26.2		-	-	*	Co-elute PCB 203
13C-PCB-202	5.07e+07	0.89	y	44:48	0.87	8950					89.5
13C-PCB-178	4.20e+07	1.08	y	42:18	0.71	9060					90.6
13C-PCB-138	6.48e+07	1.28	y	41:32	-	113					
PCB-195	4.57e+04	0.76	y	49:01	0.74	9.25	J	-	-	*	
PCB-194	9.96e+04	0.82	y	49:50	0.85	17.6	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.07	*		952	968	1.86	
13C-PCB-205	6.67e+07	0.90	y	50:04	1.28	8970					89.7
PCB-208	2.06e+04	1.18	y	49:09	1.06	2.98	J	-	-	*	
13C-PCB-208	6.53e+07	0.83	y	49:08	1.22	9240					92.4
PCB-207	1.69e+05	1.23	y	49:27	1.16	26.5		-	-	*	
PCB-206	2.47e+04	1.26	y	51:16	1.06	5.27	J	-	-	*	
13C-PCB-206	4.41e+07	0.82	y	51:16	0.91	8310					83.1
PCB-209	1.87e+05	1.04	y	52:28	1.12	30.5		-	-	*	
13C-PCB-209	5.46e+07	1.20	y	52:27	1.14	8240					82.4
13C-PCB-194	5.80e+07	0.92	y	49:49	-	110					

Analyst: _____ Date: 8/7/19

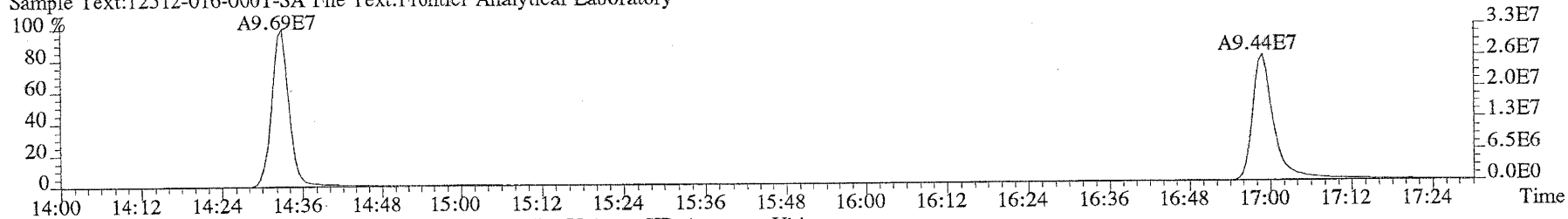
File:05AUG19Z #1-783 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



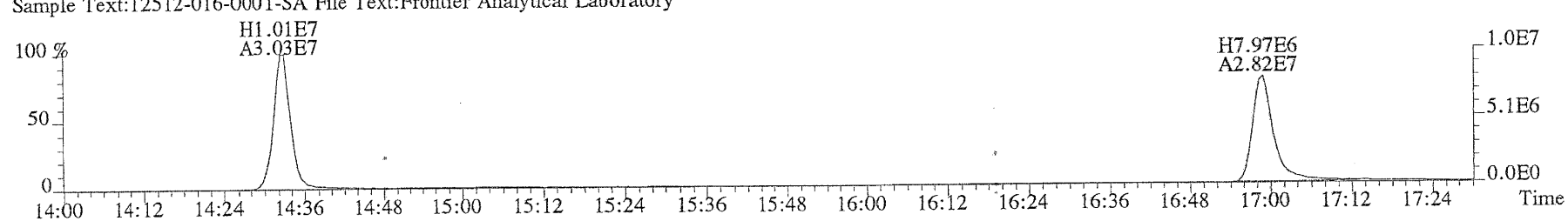
File:05AUG19Z #1-783 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



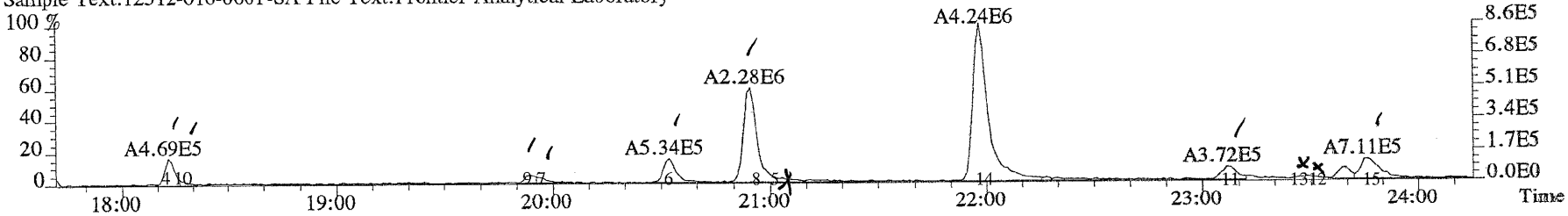
File:05AUG19Z #1-783 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



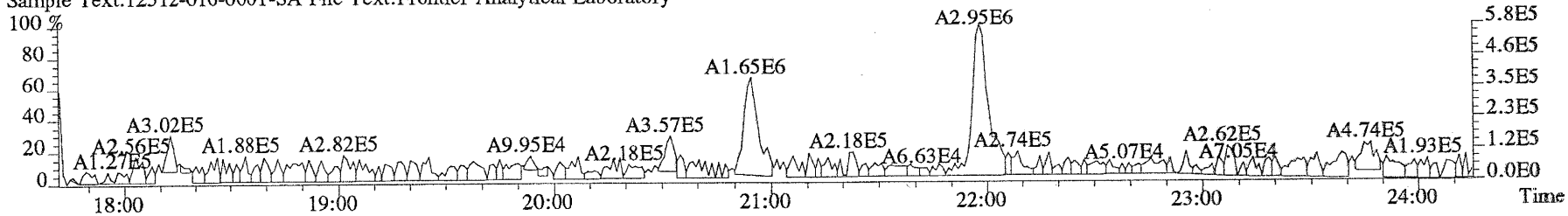
File:05AUG19Z #1-783 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



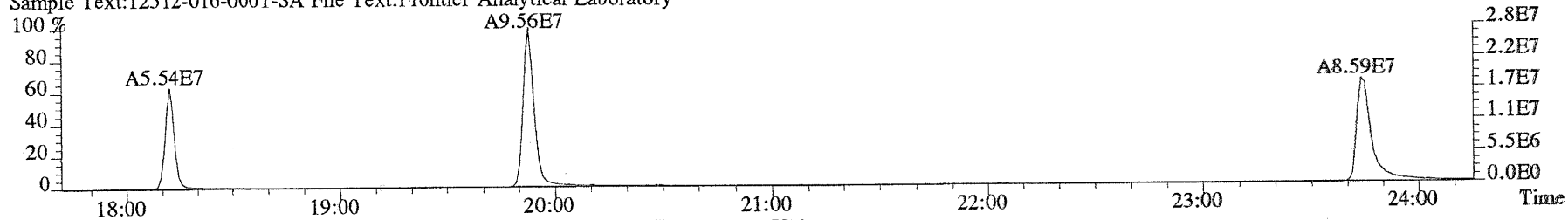
File:05AUG19Z #1-521 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



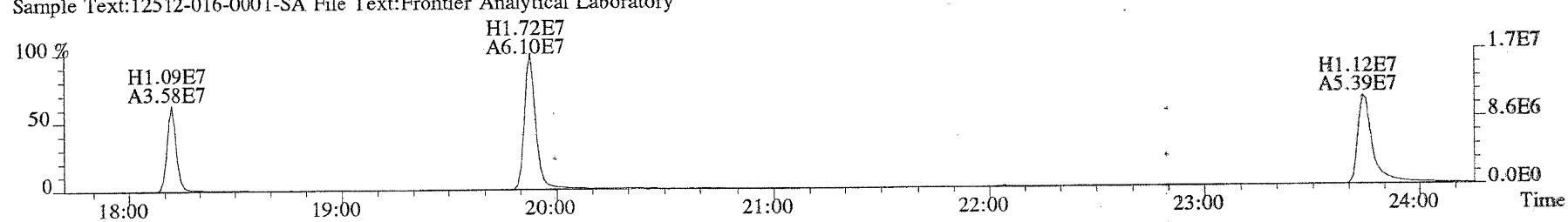
File:05AUG19Z #1-521 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



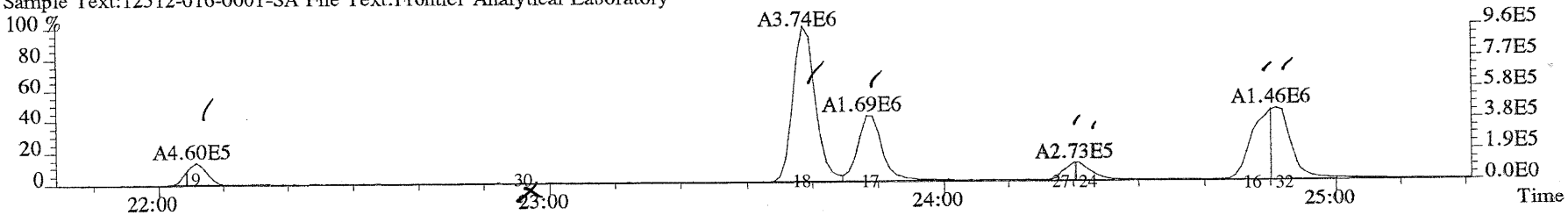
File:05AUG19Z #1-521 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



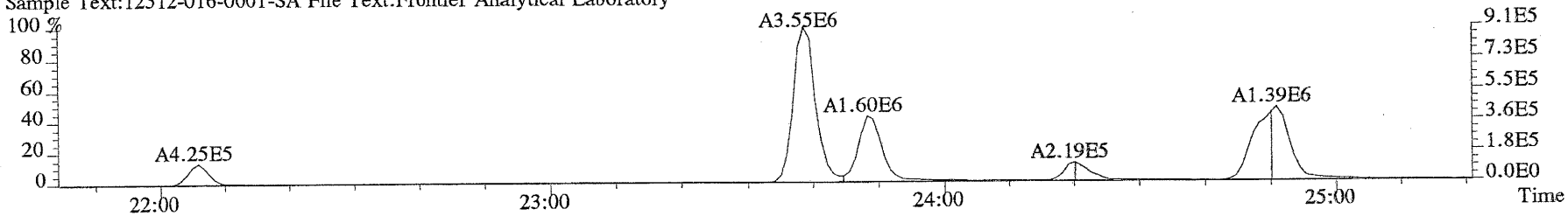
File:05AUG19Z #1-521 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



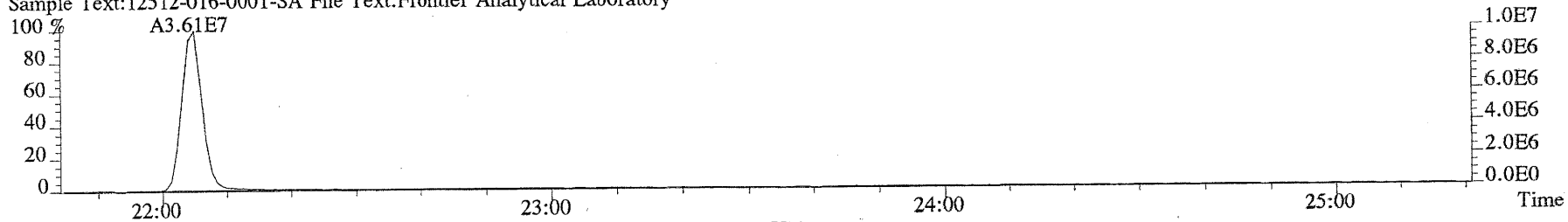
File:05AUG19Z #1-521 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



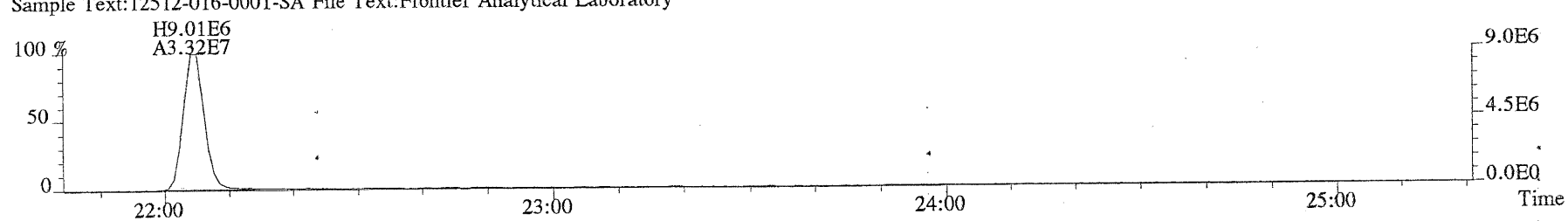
File:05AUG19Z #1-521 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



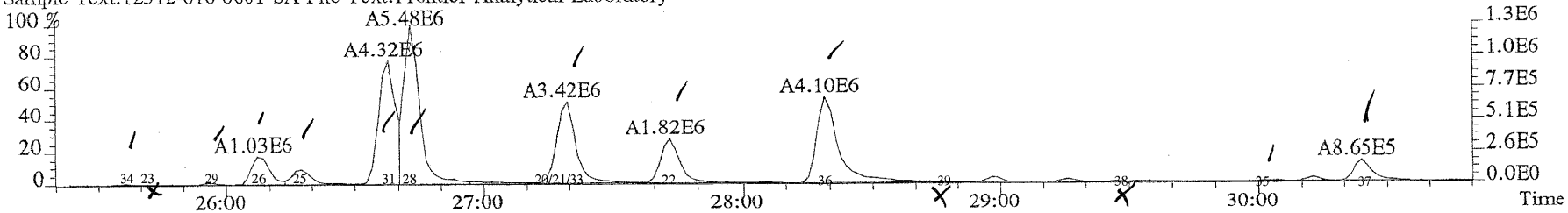
File:05AUG19Z #1-521 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



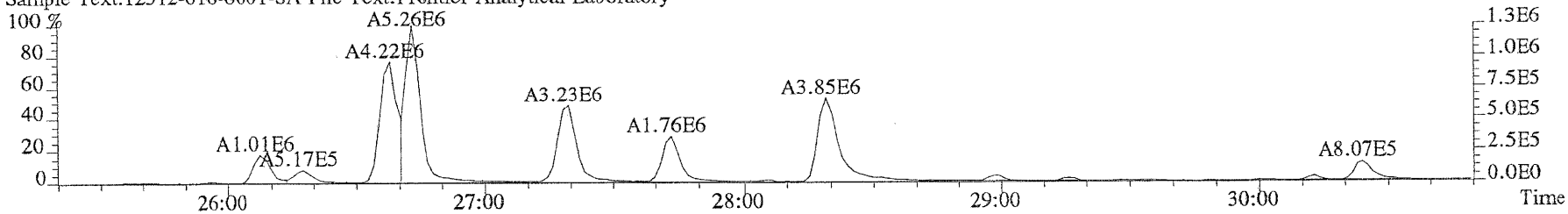
File:05AUG19Z #1-521 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



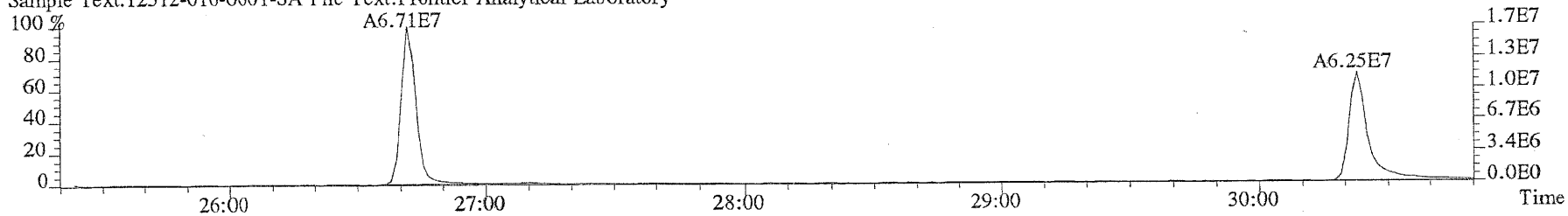
File:05AUG19Z #1-401 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



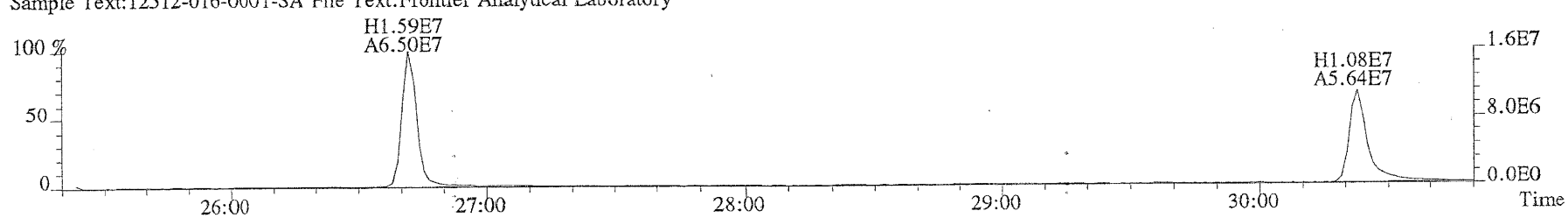
File:05AUG19Z #1-401 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3;1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



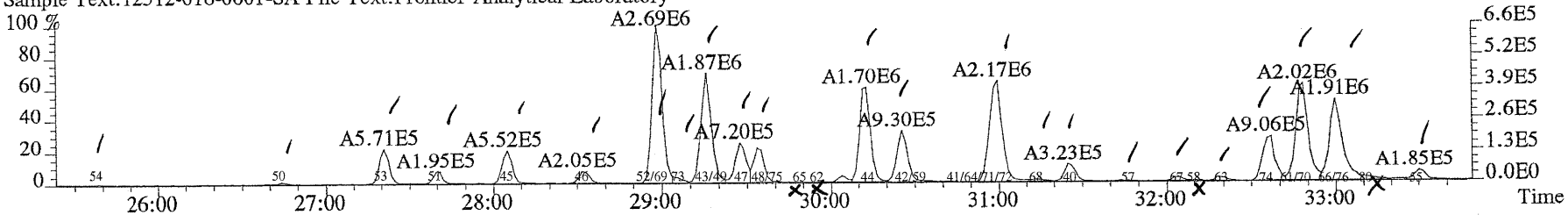
File:05AUG19Z #1-401 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



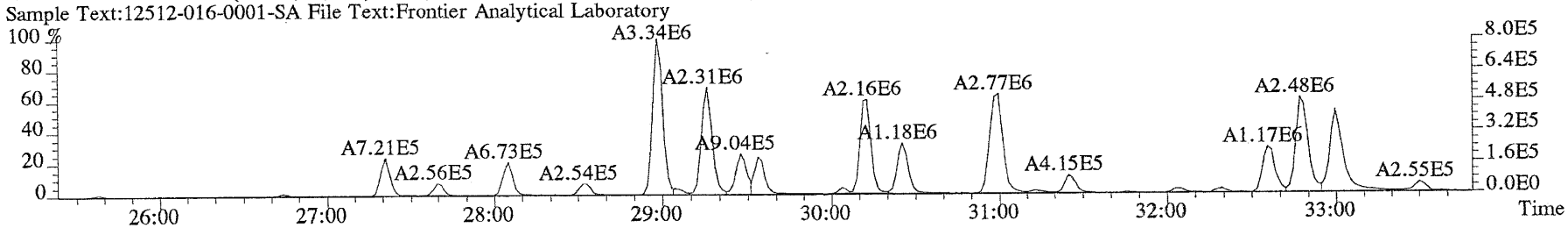
File:05AUG19Z #1-401 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



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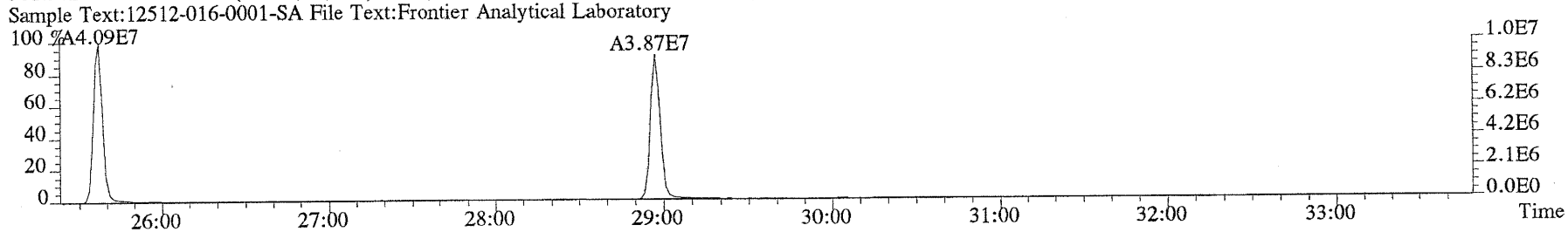
301.9626 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



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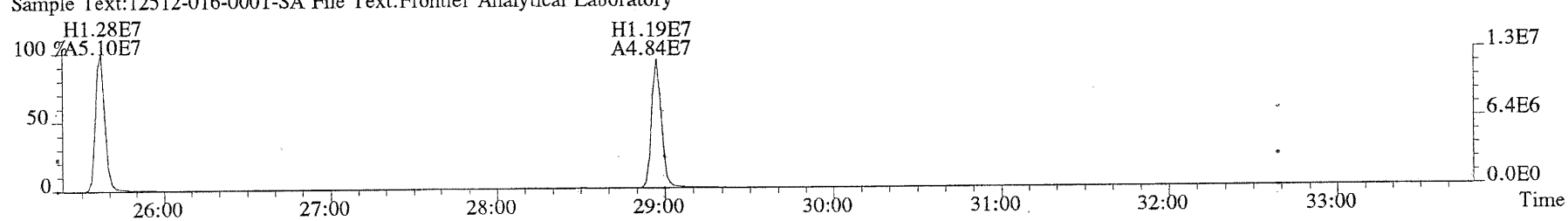
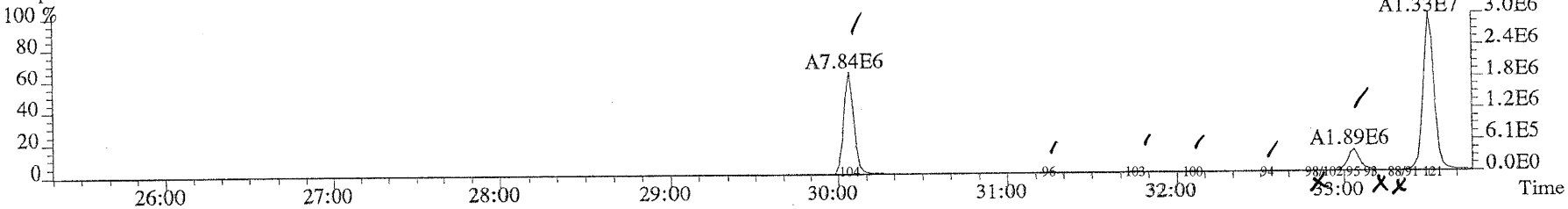
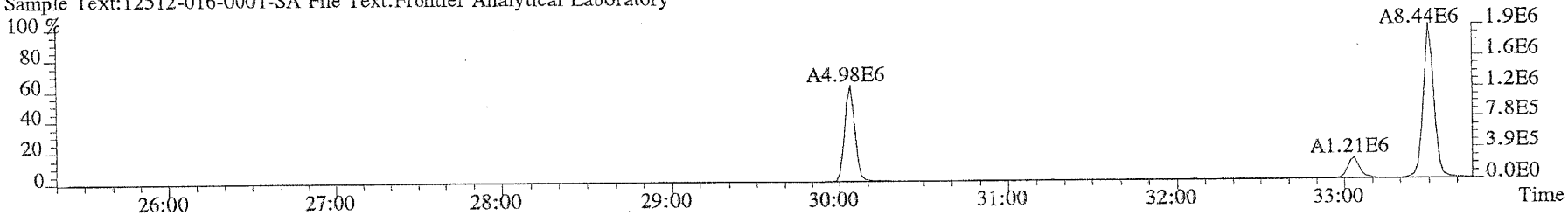
303.9597 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



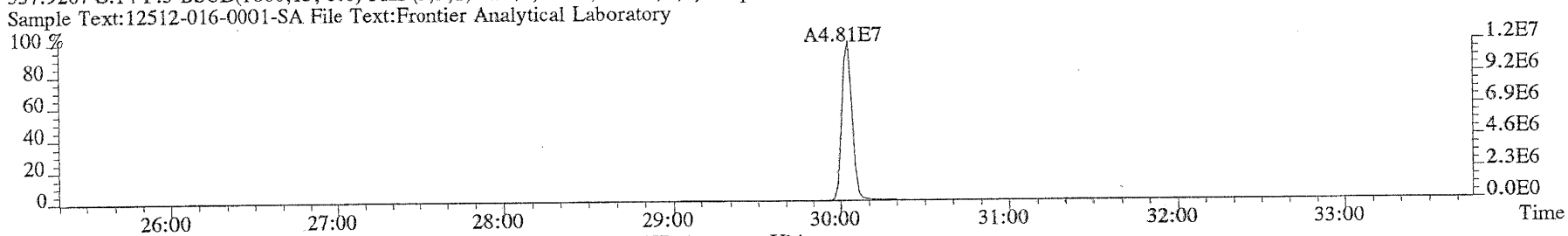
File:05AUG19Z #1-401 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



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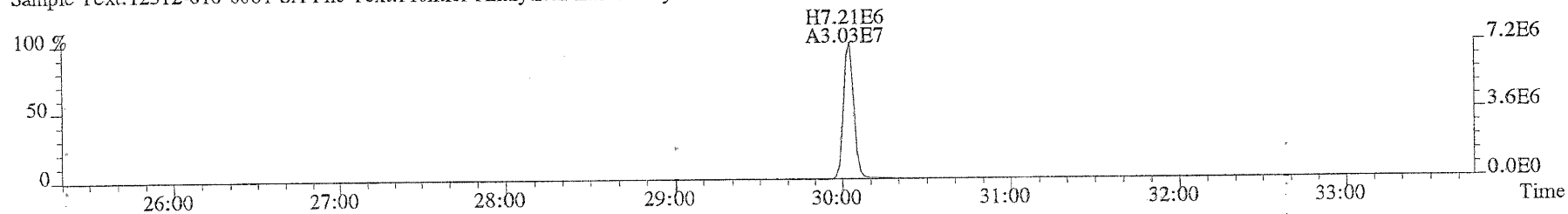
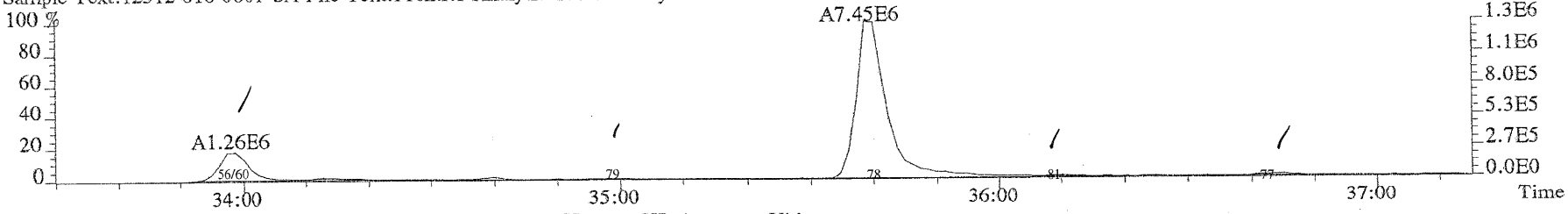
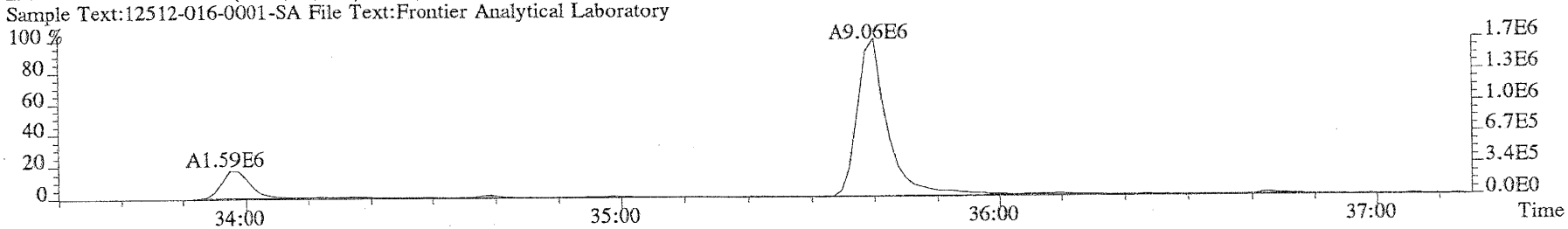
339.9178 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



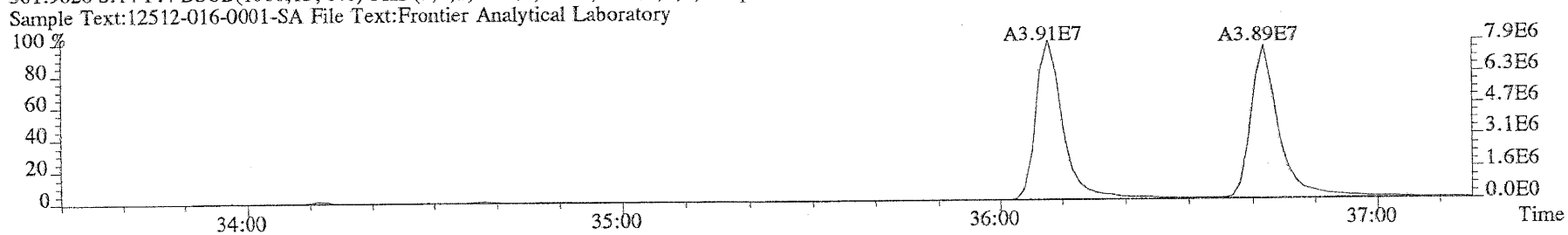
File:05AUG19Z #1-180 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



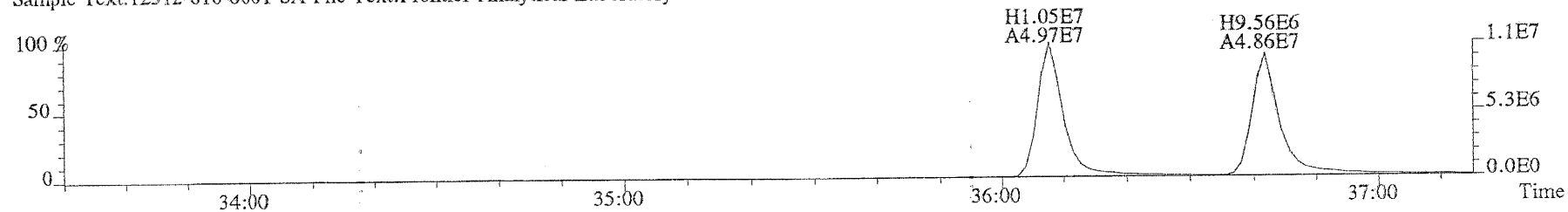
File:05AUG19Z #1-180 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



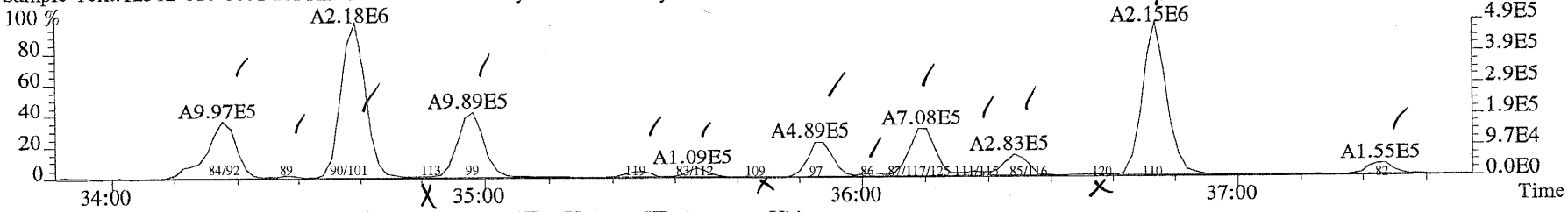
File:05AUG19Z #1-180 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



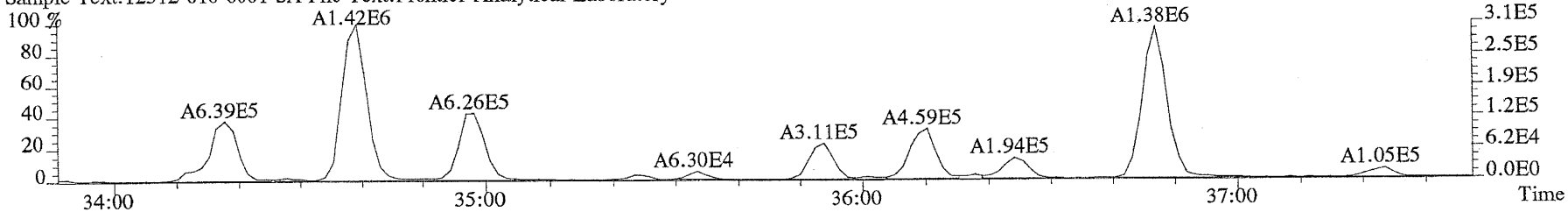
File:05AUG19Z #1-180 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-180 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-180 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-180 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
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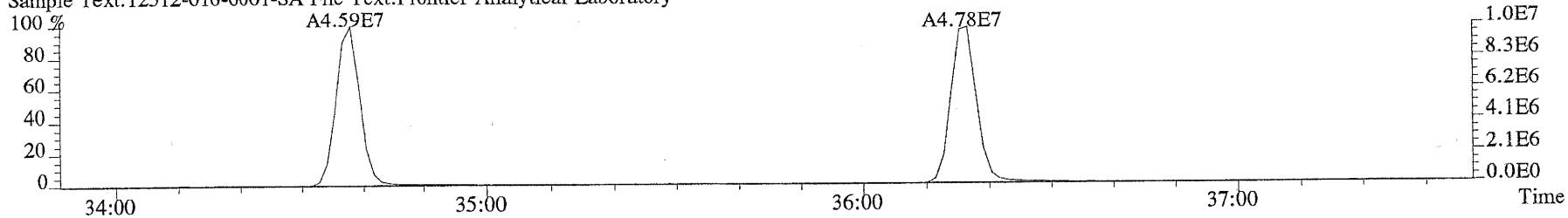
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



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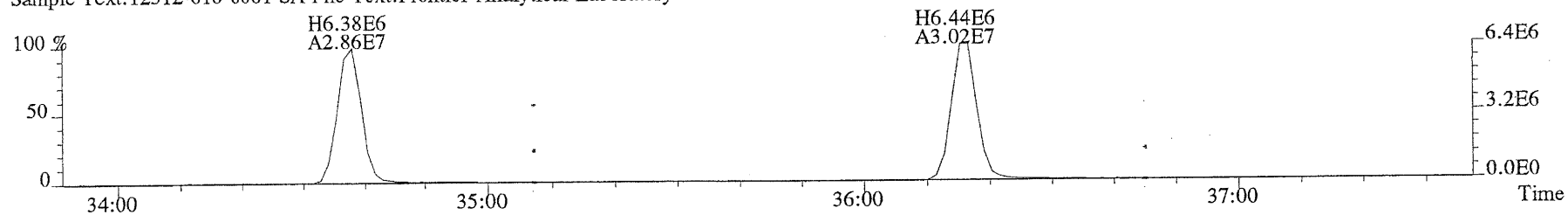
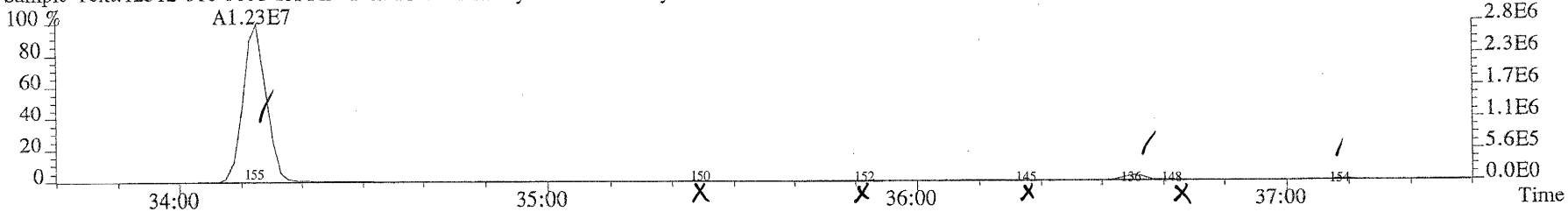
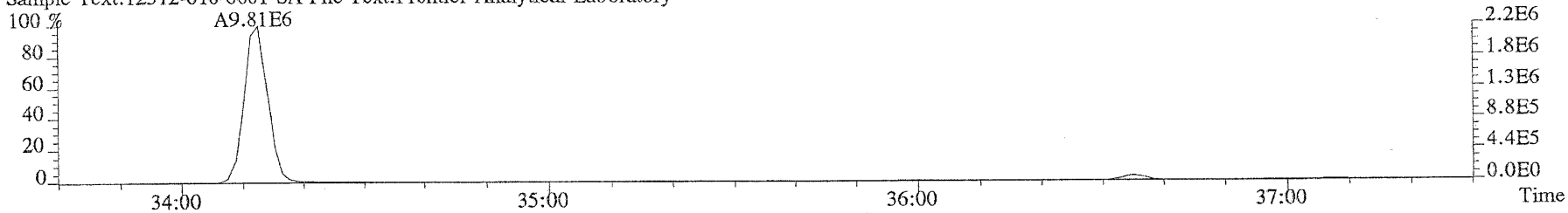
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



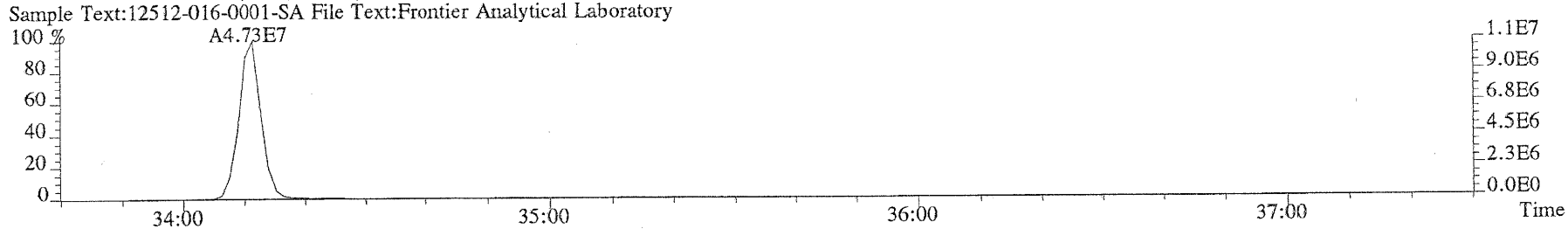
File:05AUG19Z #1-180 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



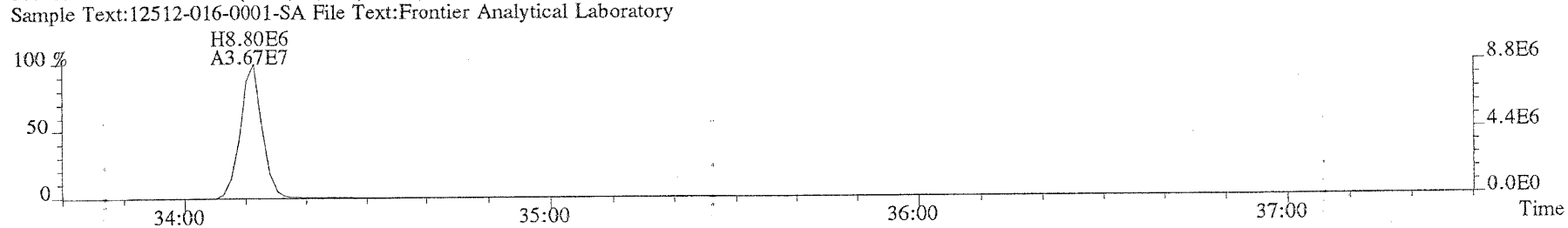
File:05AUG19Z #1-180 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



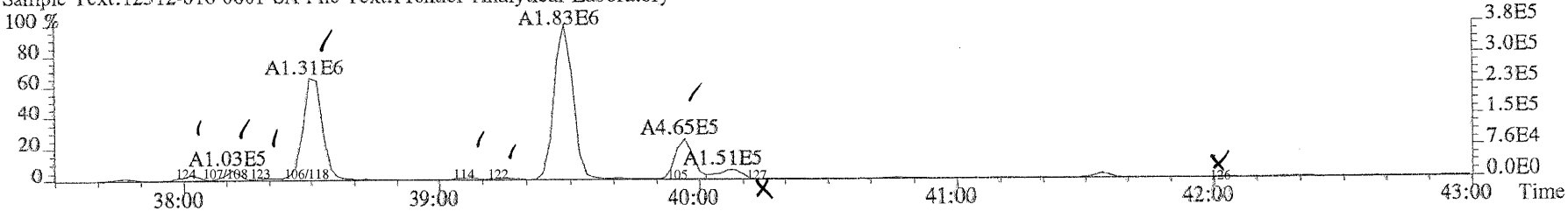
File:05AUG19Z #1-180 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-180 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-405 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



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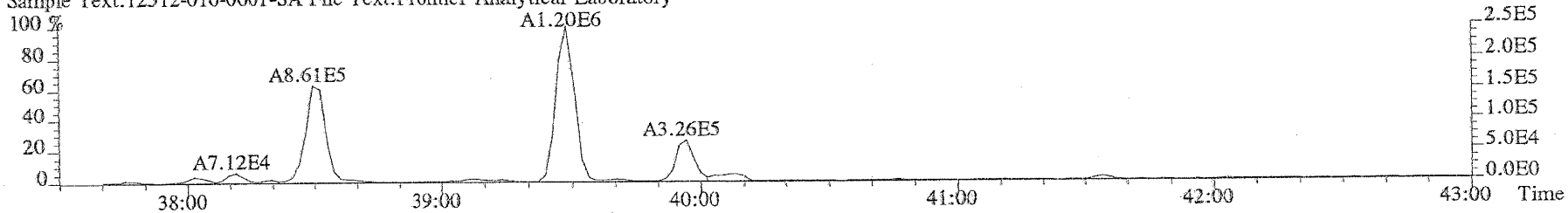
327.8775 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



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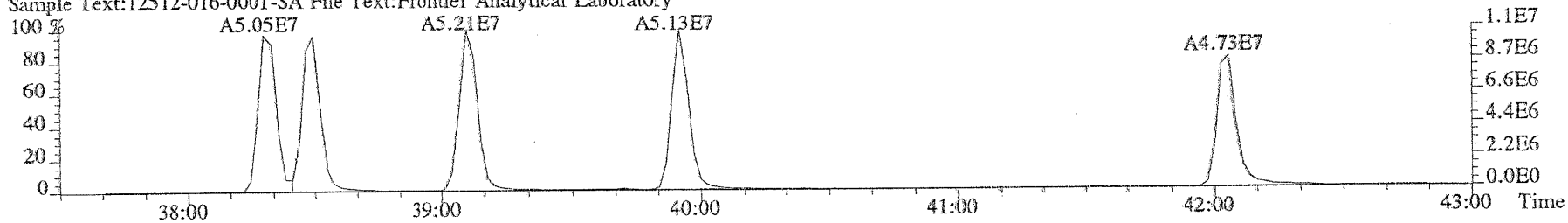
337.9207 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



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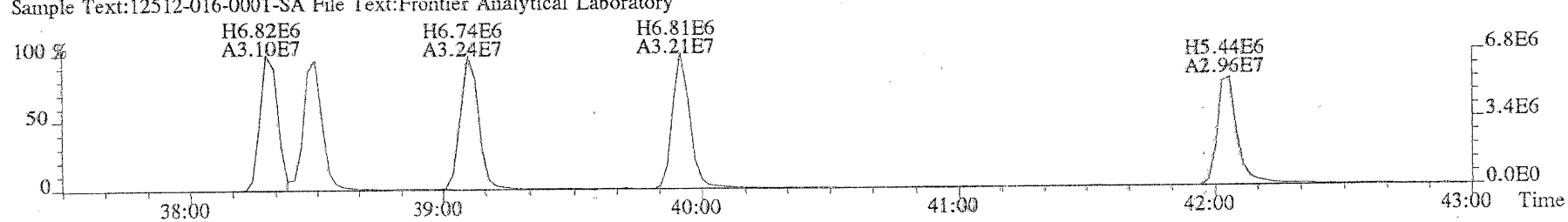
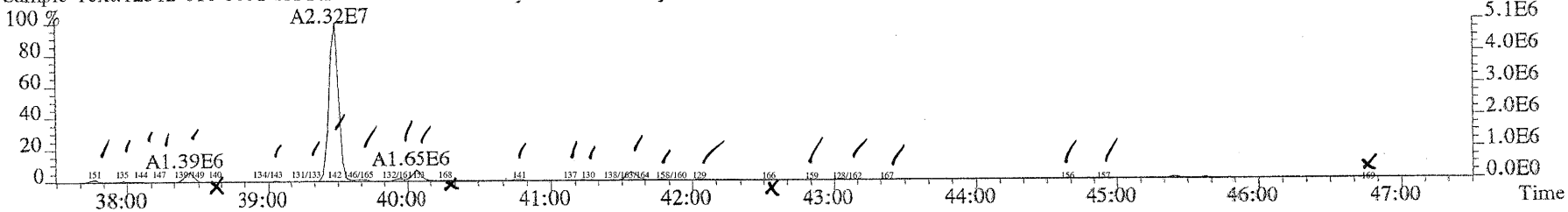
339.9178 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-405 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



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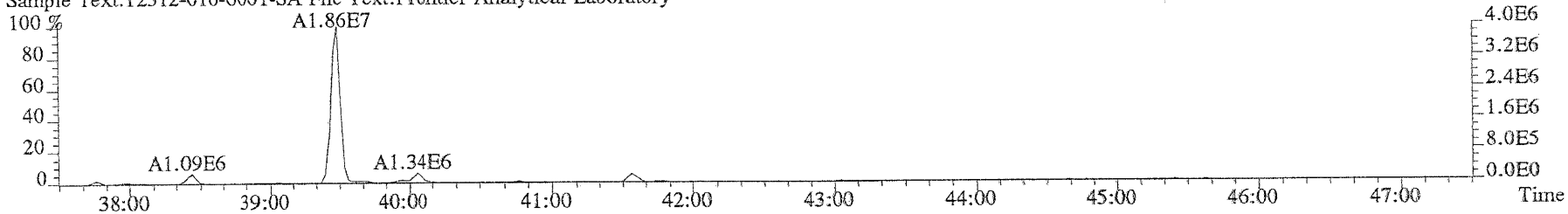
361.8385 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



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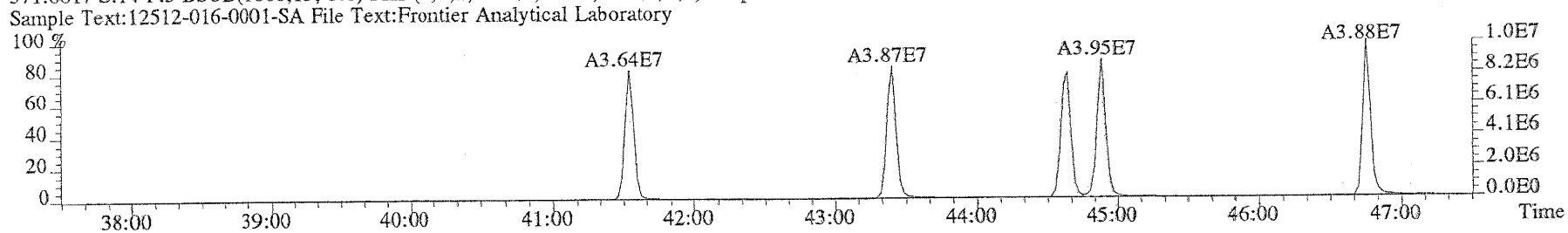
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



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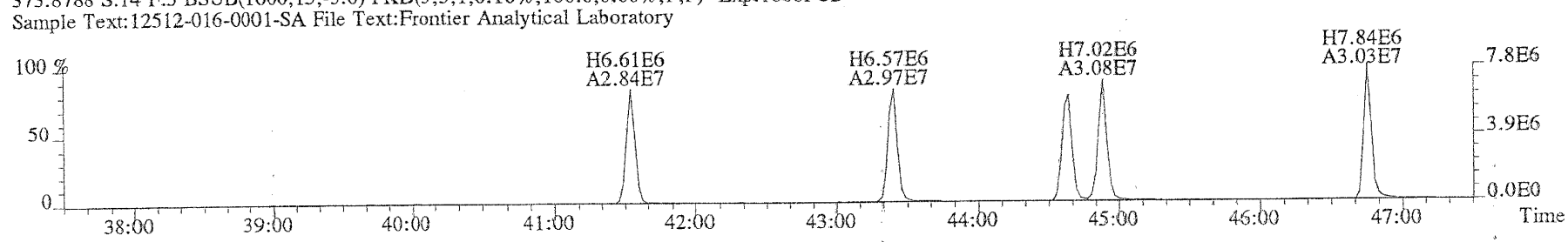

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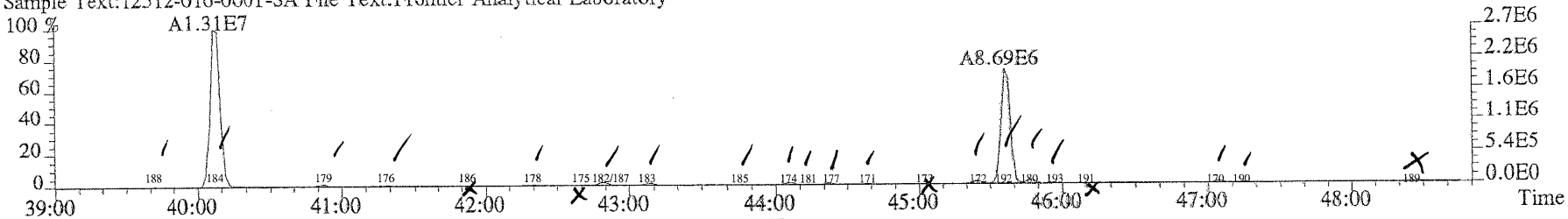
393.8025 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



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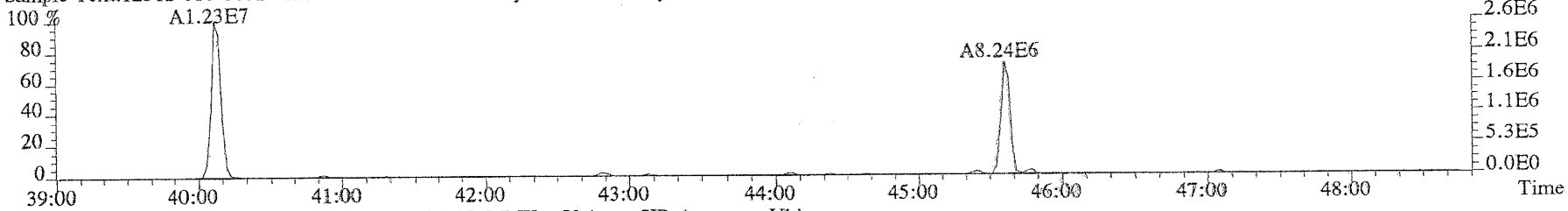
395.7995 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



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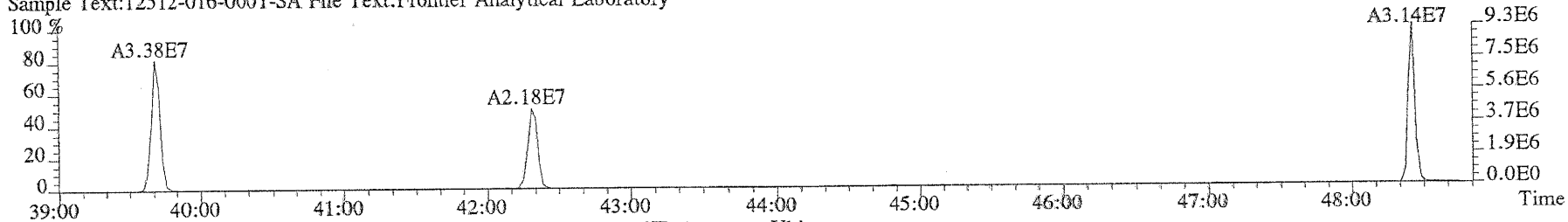
405.8428 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



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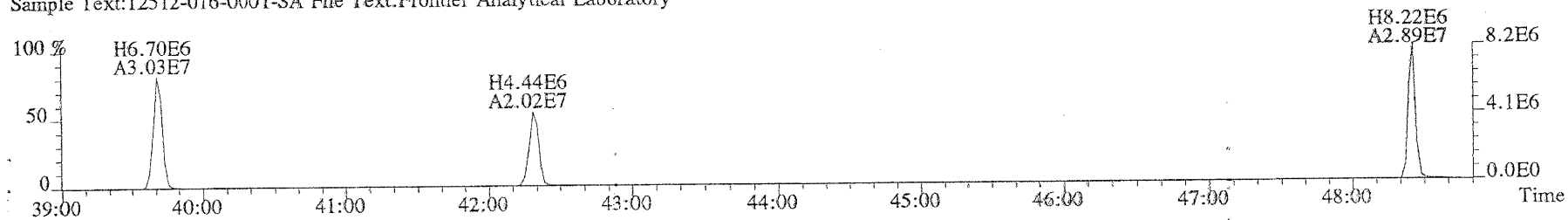
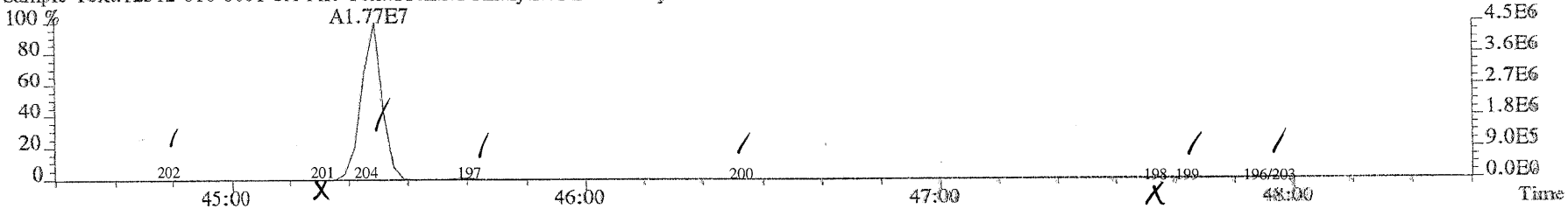
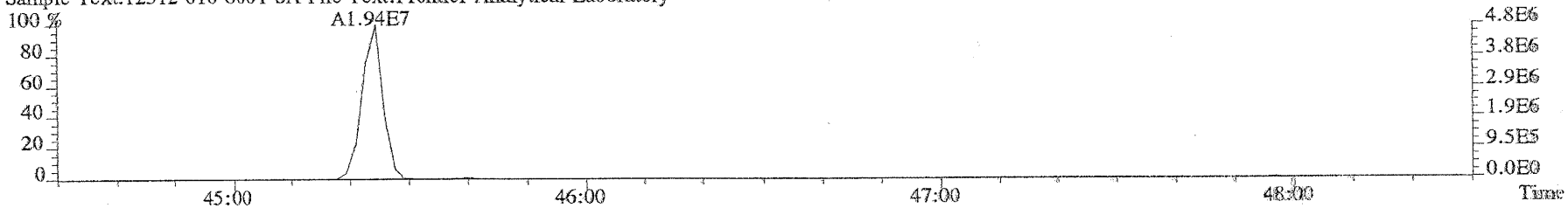
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



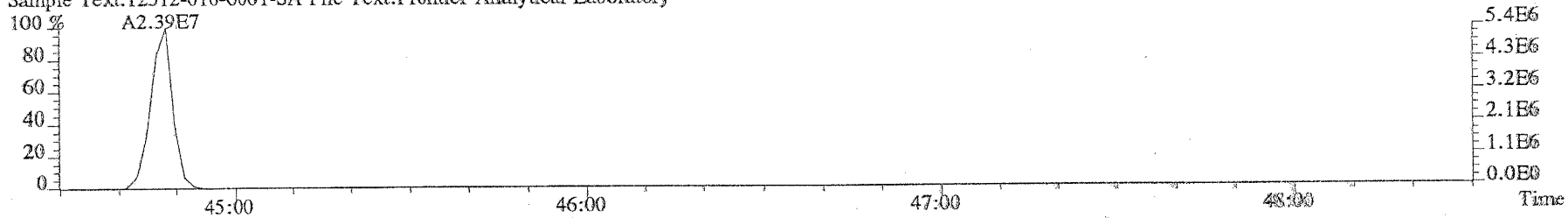
File:05AUG19Z #1-405 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



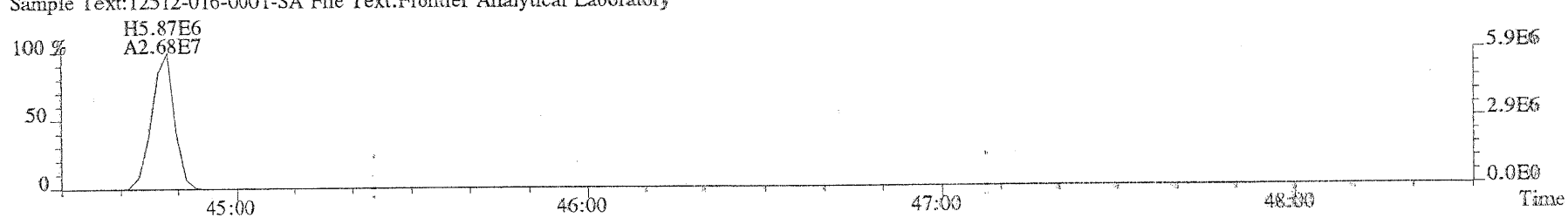
File:05AUG19Z #1-405 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



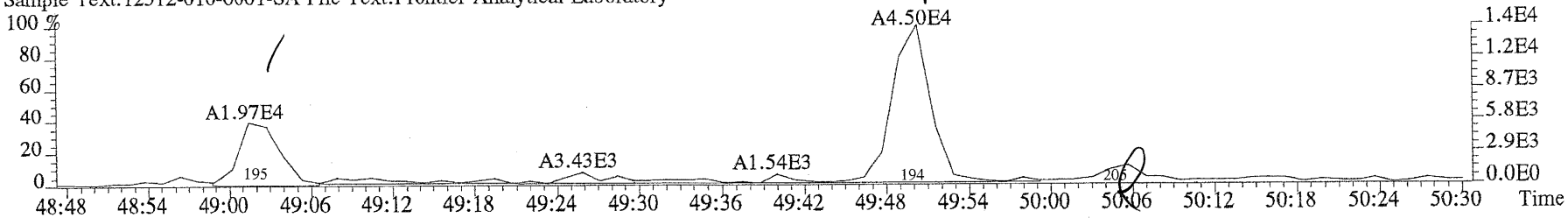
File:05AUG19Z #1-405 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



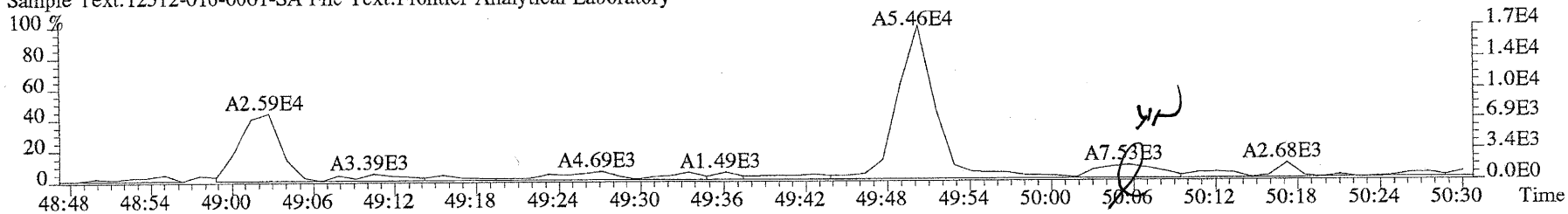
File:05AUG19Z #1-405 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



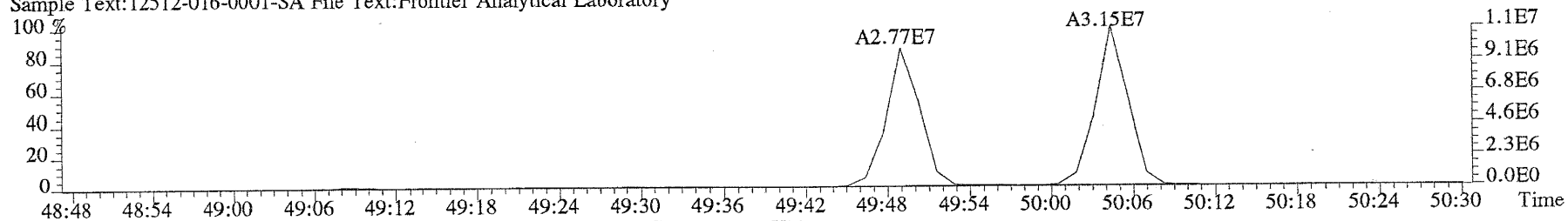
File:05AUG19Z #1-315 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:14 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



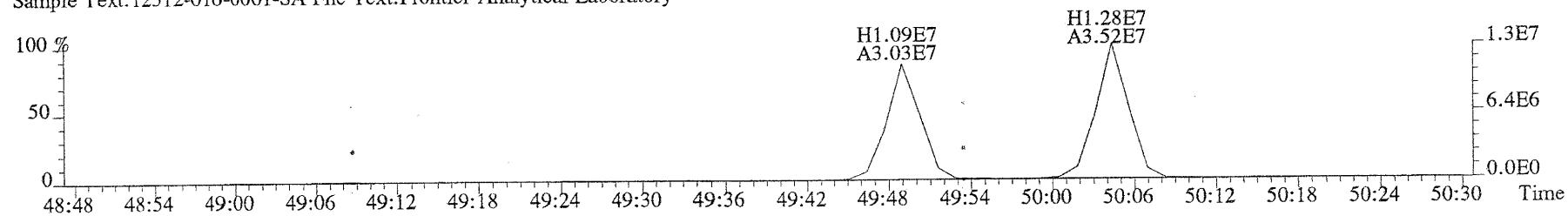
File:05AUG19Z #1-315 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:14 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



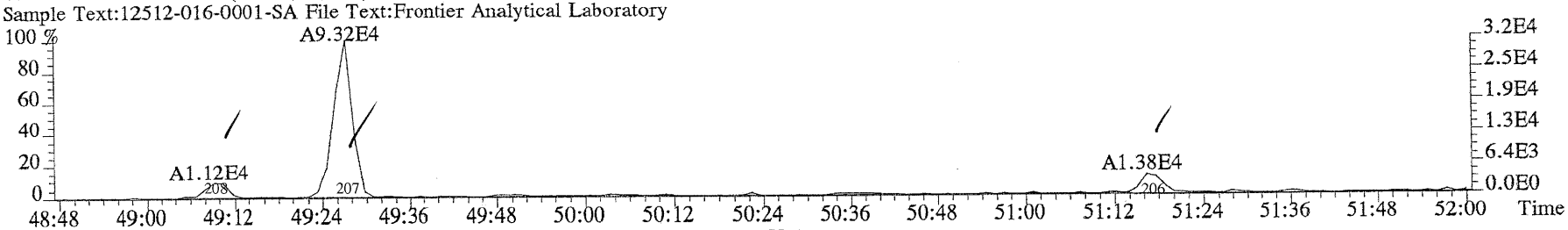
File:05AUG19Z #1-315 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:14 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



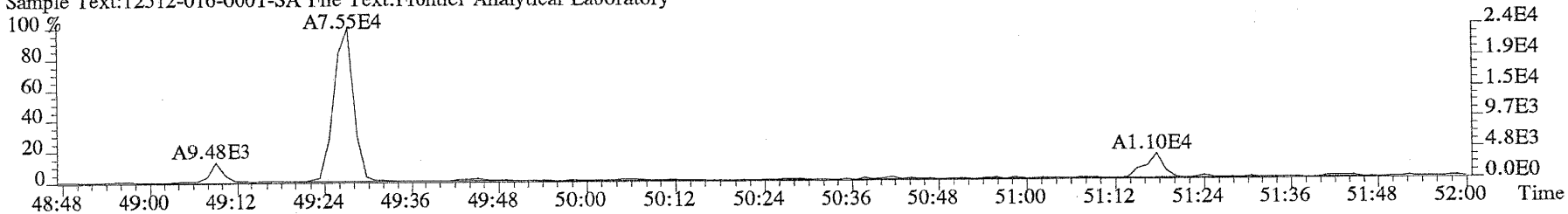
File:05AUG19Z #1-315 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



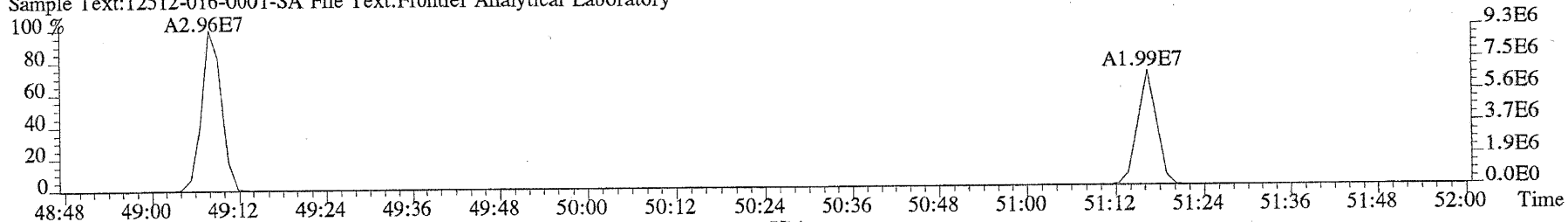
File:05AUG19Z #1-315 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:14 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



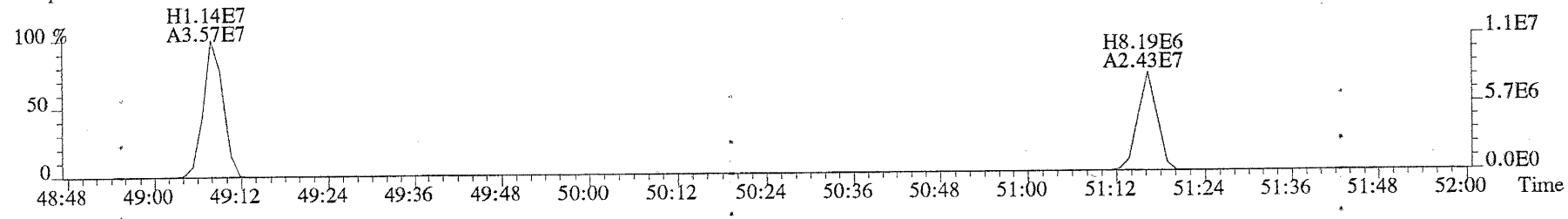
File:05AUG19Z #1-315 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:14 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



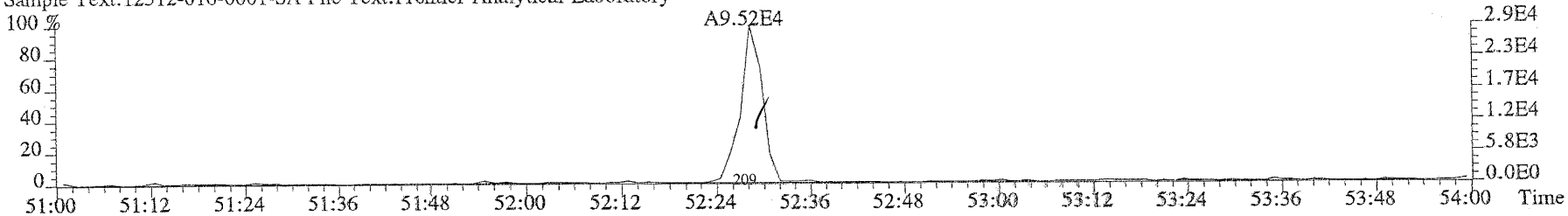
File:05AUG19Z #1-315 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:14 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



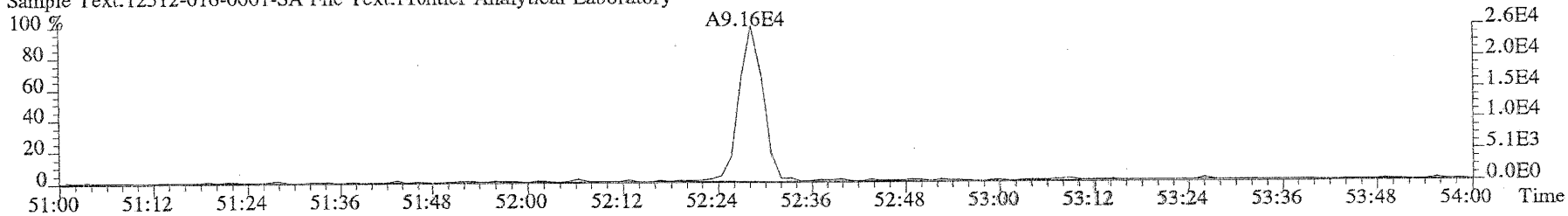
File:05AUG19Z #1-315 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:14 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



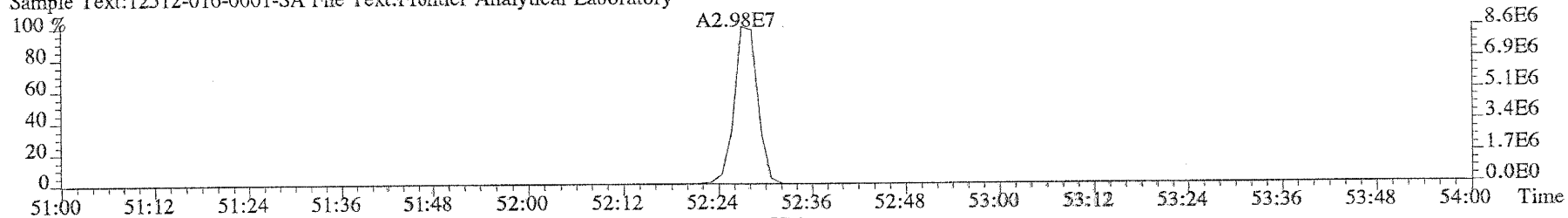
File:05AUG19Z #1-315 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



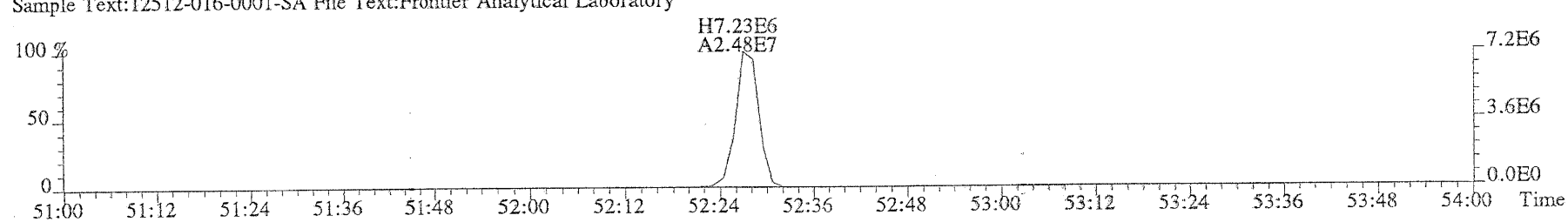
File:05AUG19Z #1-315 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 22:14:45 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12512-016-0001-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: [signature] 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: [illegible] 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: [signature] 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

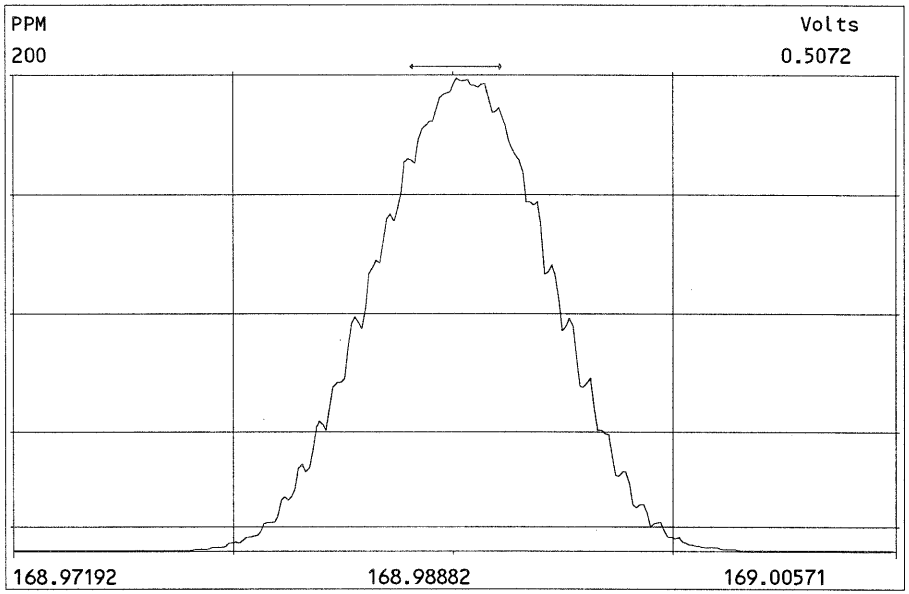
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
03APR19Z	1	ST040319Z0	1668 CS077 R170821A	3-APR-19 07:41:54	NA	NA	BS
03APR19Z	2	ST040319Z1	1668 CS177 R170213A	3-APR-19 08:40:14	NA	NA	BS
03APR19Z	3	ST040319Z2	1668 CS277 R170213B	3-APR-19 09:38:36	NA	NA	BS
03APR19Z	4	ST040319Z3	1668 CS377 R181204D	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

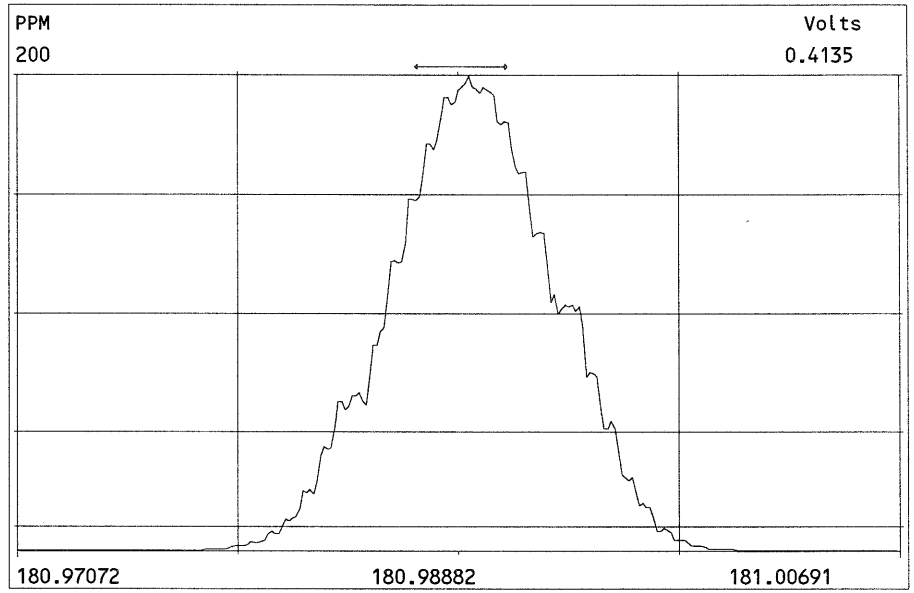
4/4/19

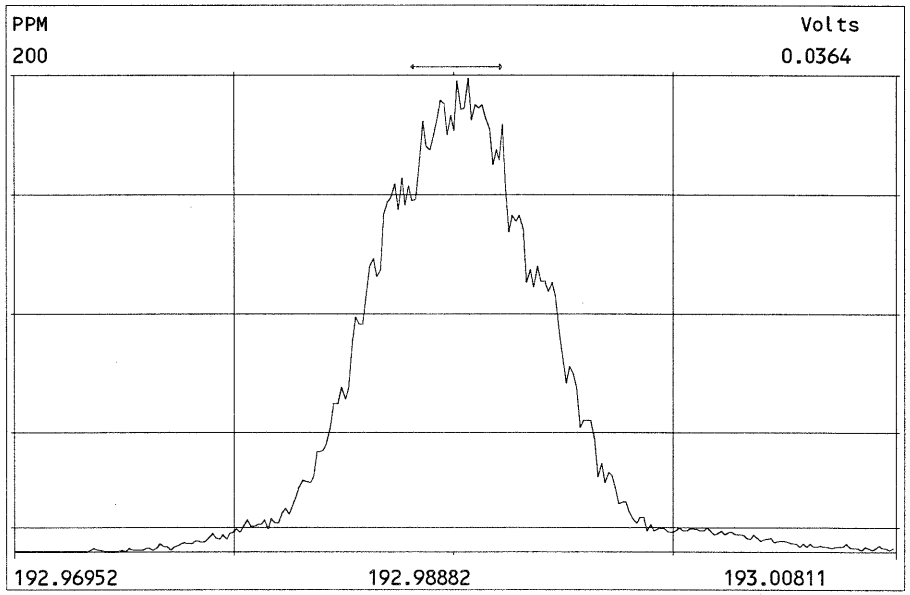
Data Backed Up:_____

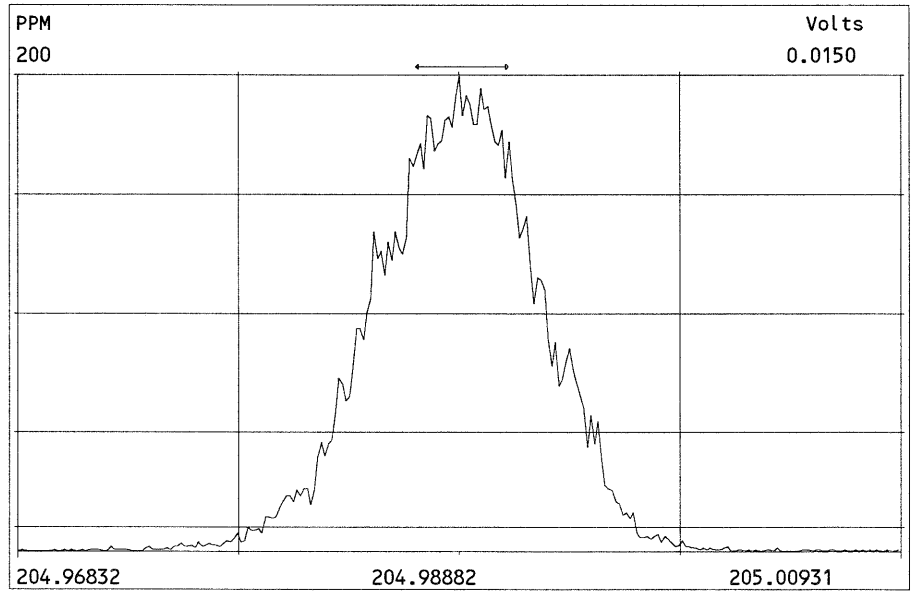
Date:_____

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

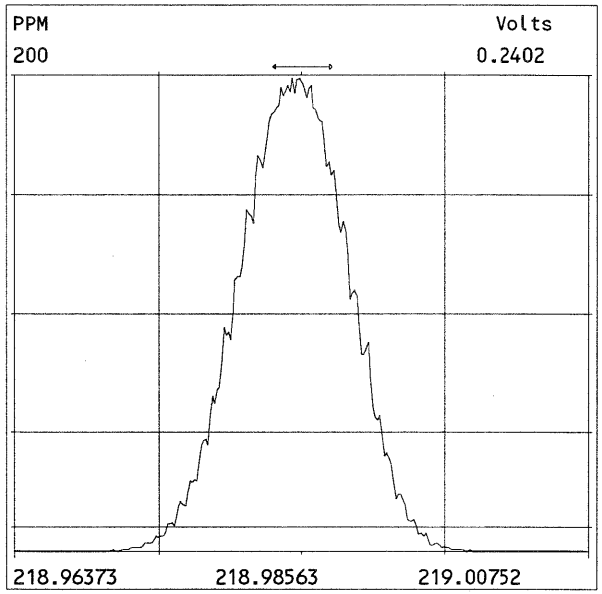


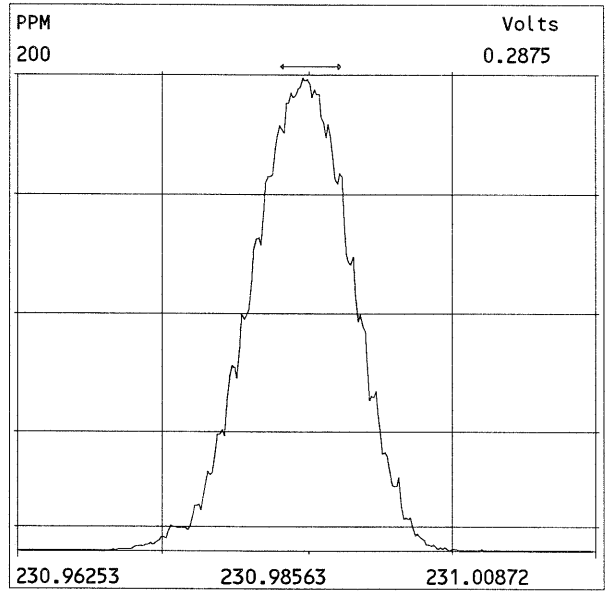


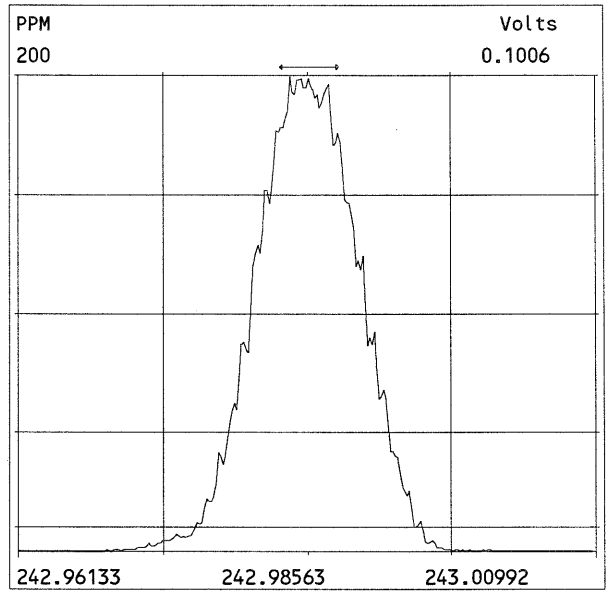


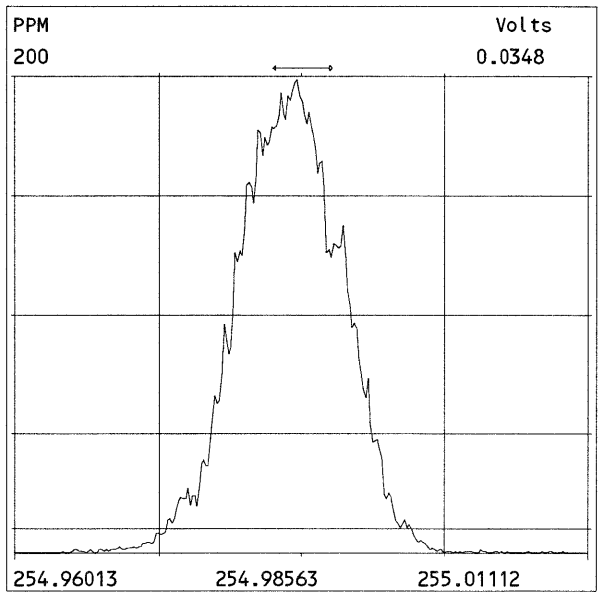


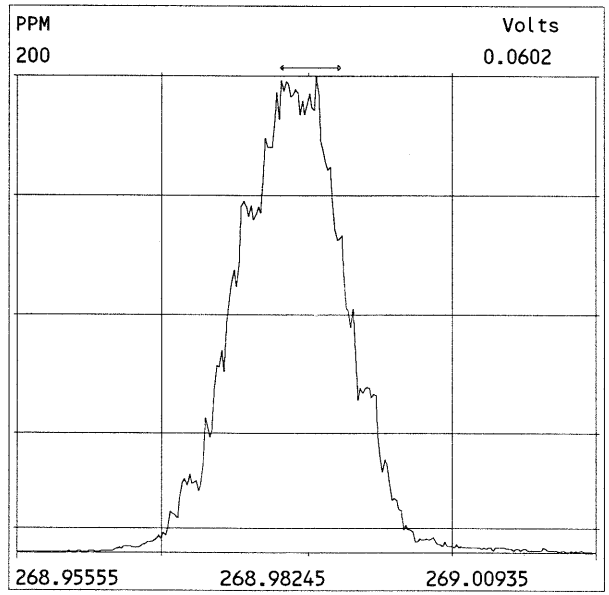
Peak Locate Examination: 3-APR-2019:07:39 File:03APR19Z
Experiment:1668PCB Function:2 Reference:PFK77

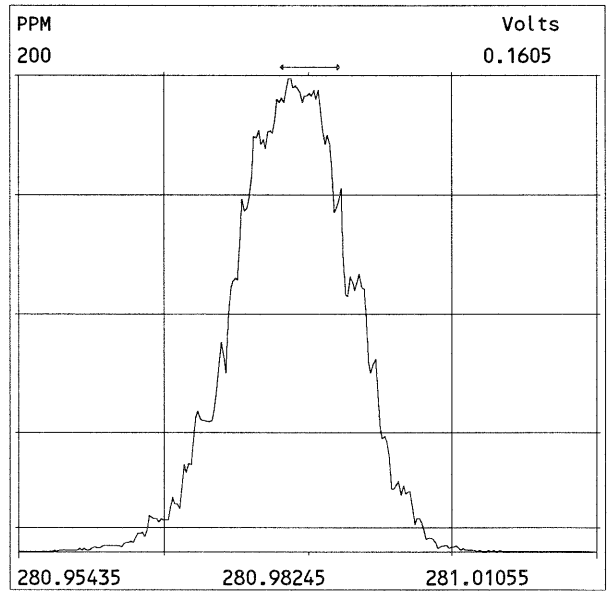




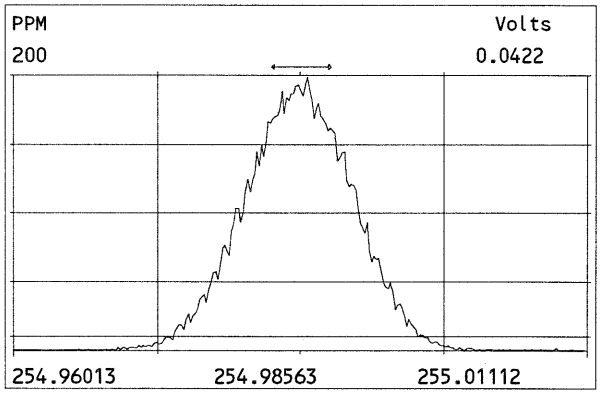


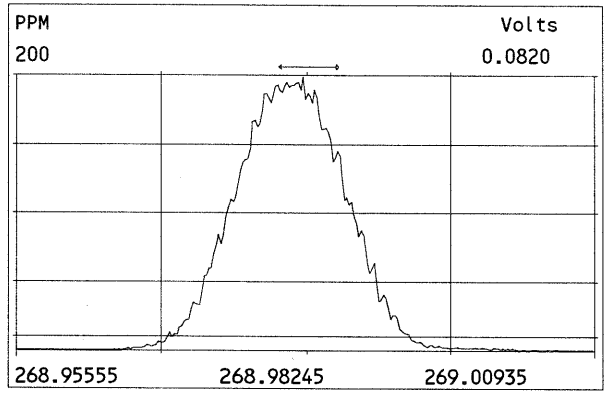


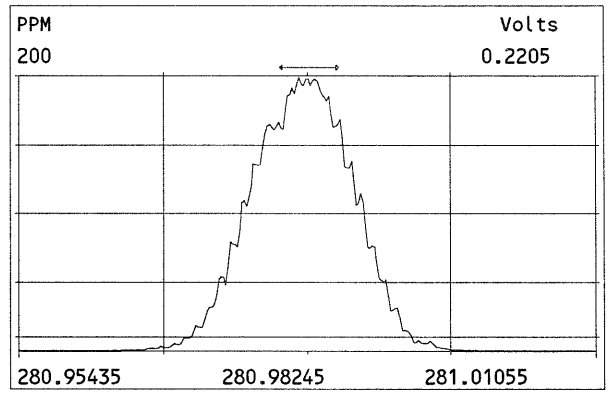


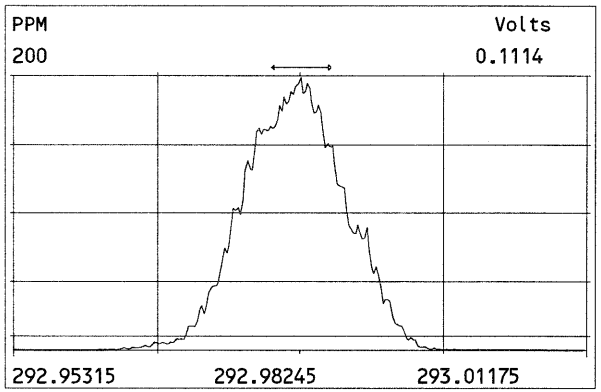


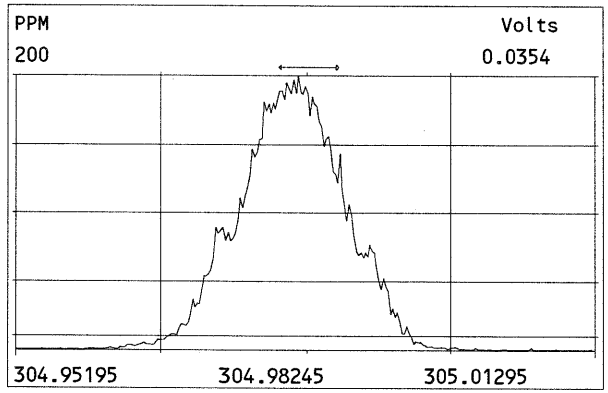
Peak Locate Examination: 3-APR-2019:07:39 File:03APR19Z
Experiment:1668PCB Function:3 Reference:PFK77

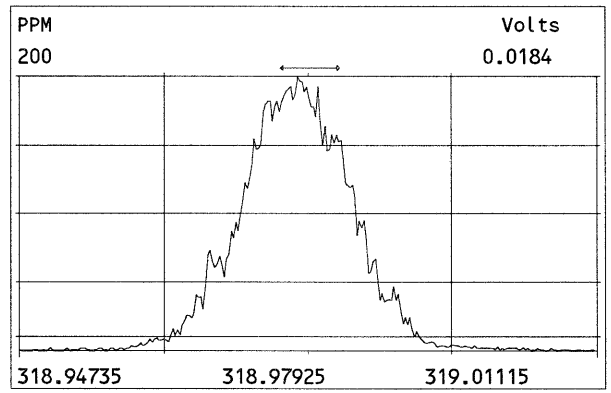


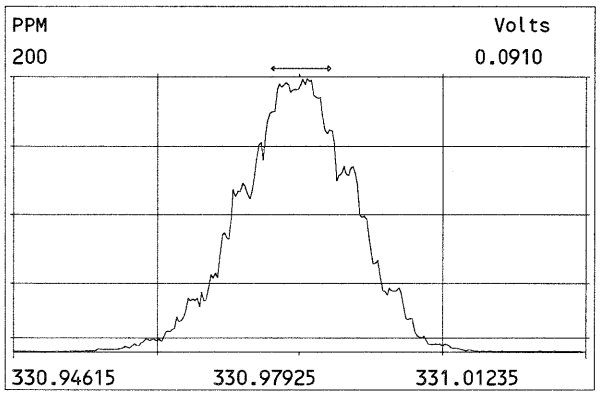


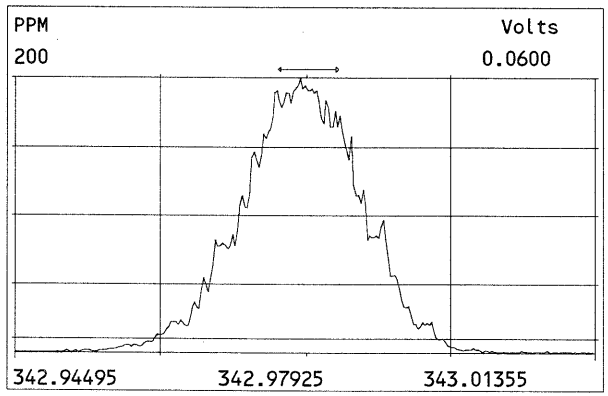




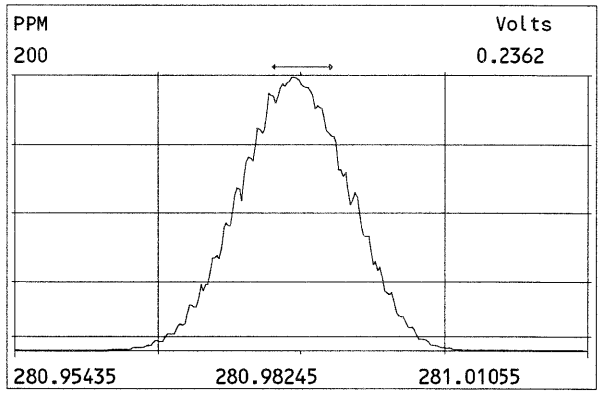


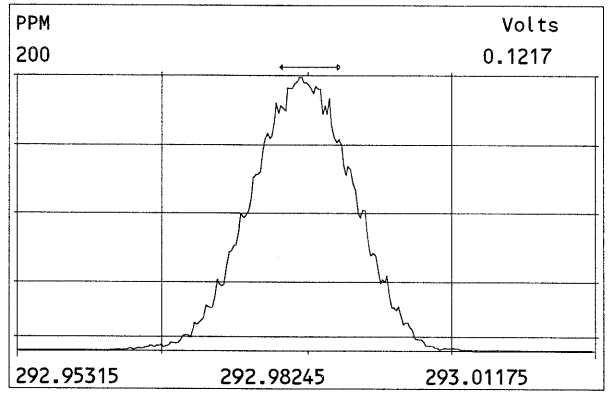


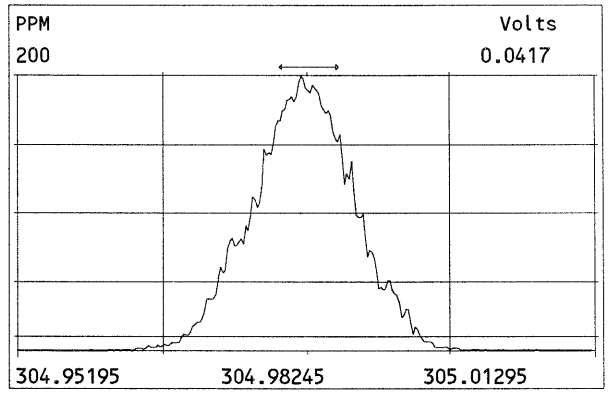


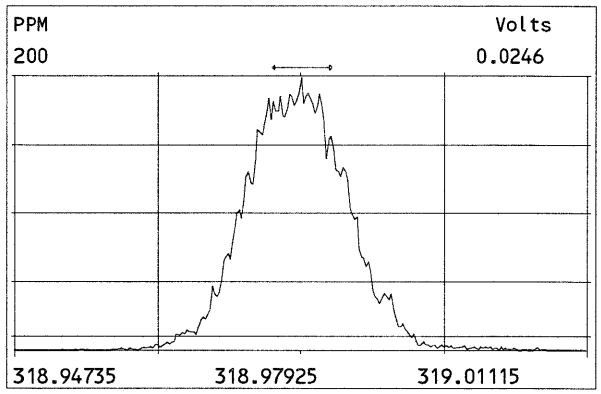


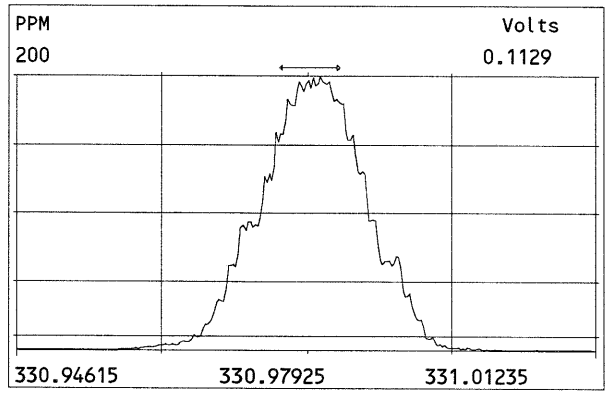
Peak Locate Examination: 3-APR-2019:07:40 File:03APR19Z
Experiment:1668PCB Function:4 Reference:PFK77

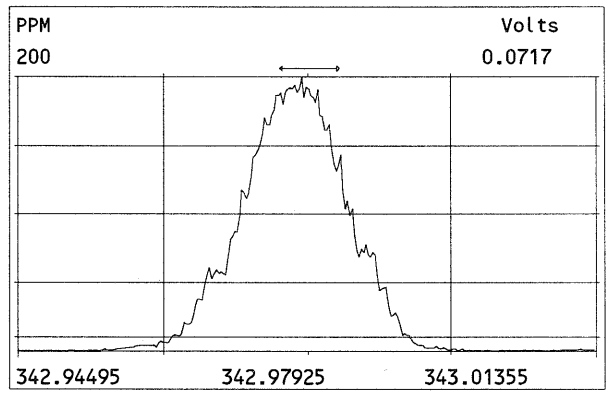


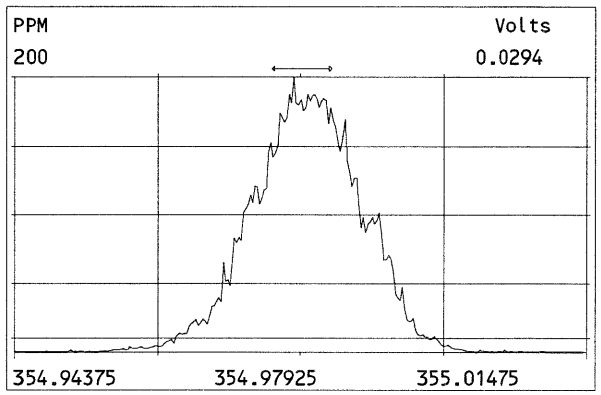


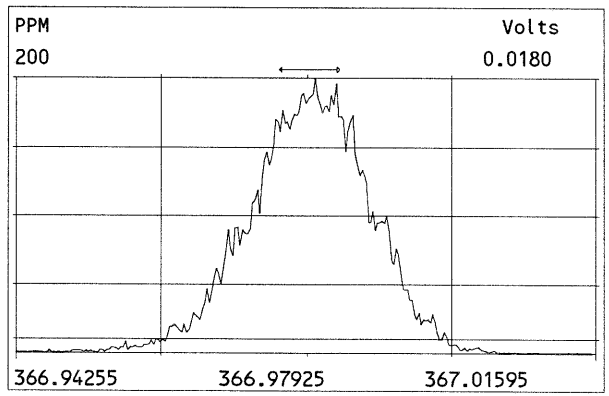


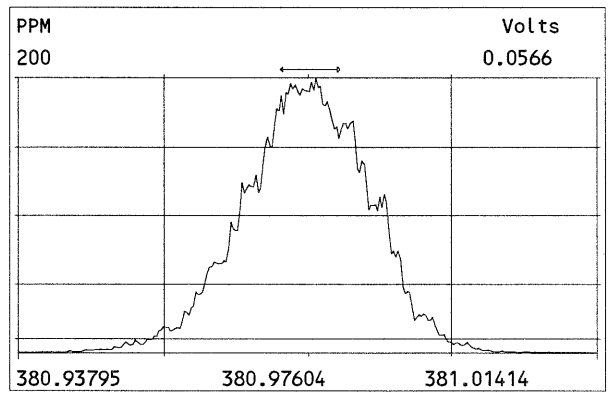




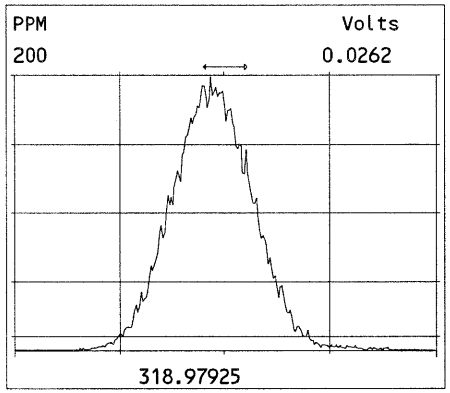


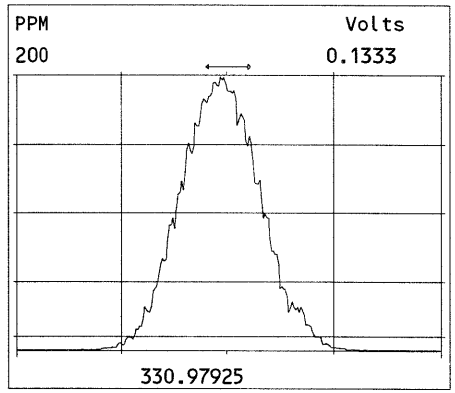


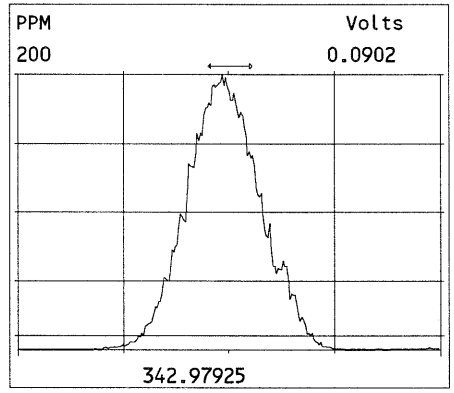


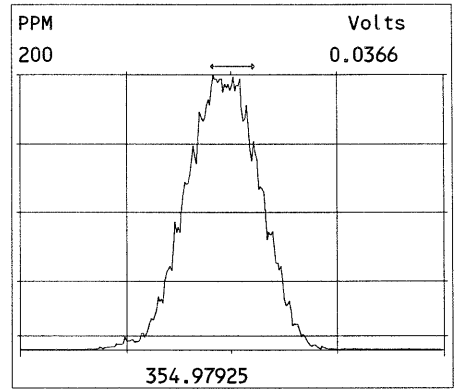


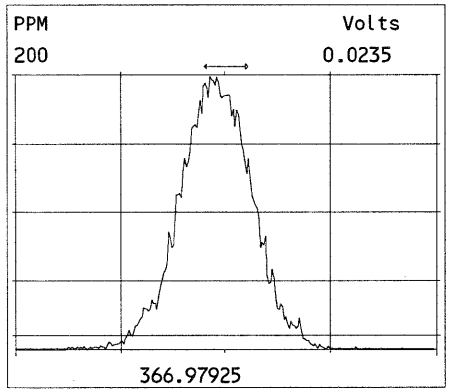
Peak Locate Examination: 3-APR-2019:07:40 File:03APR19Z
Experiment:1668PCB Function:5 Reference:PFK77

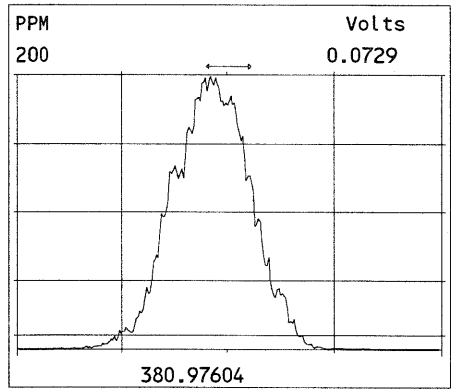


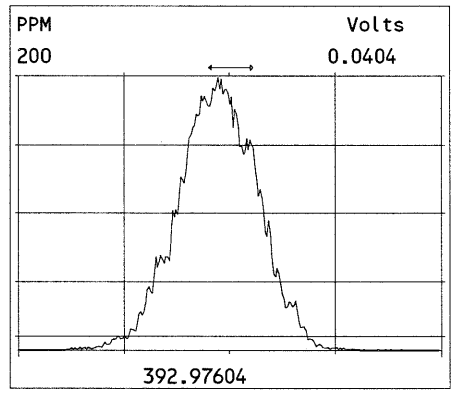


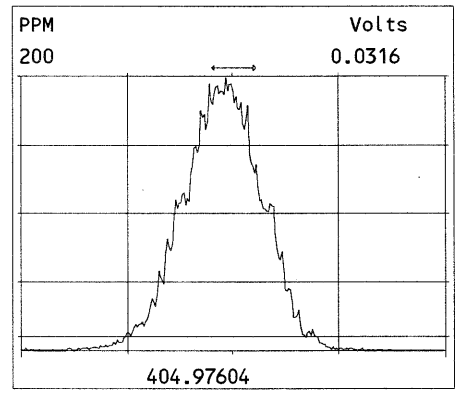


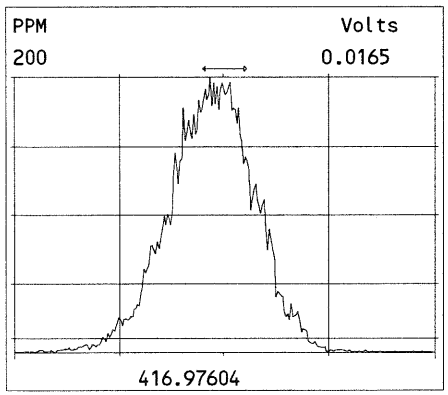


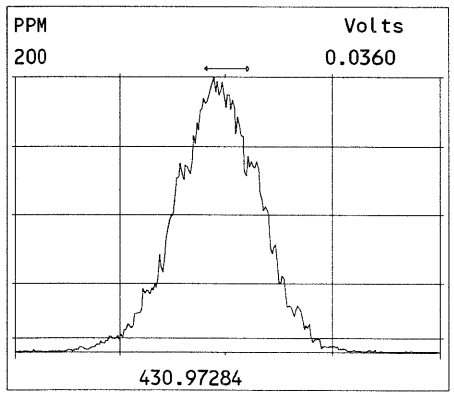


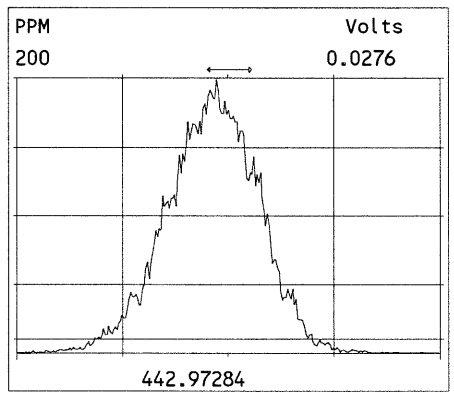




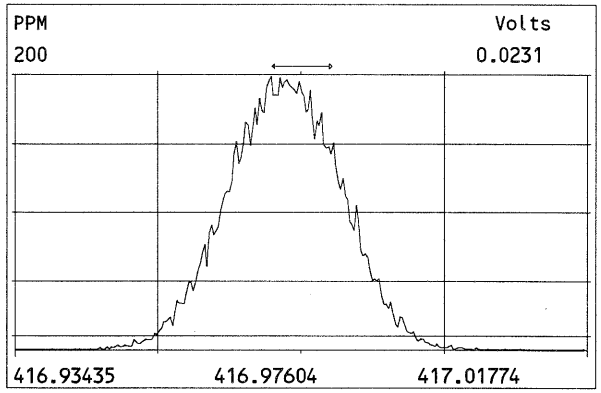


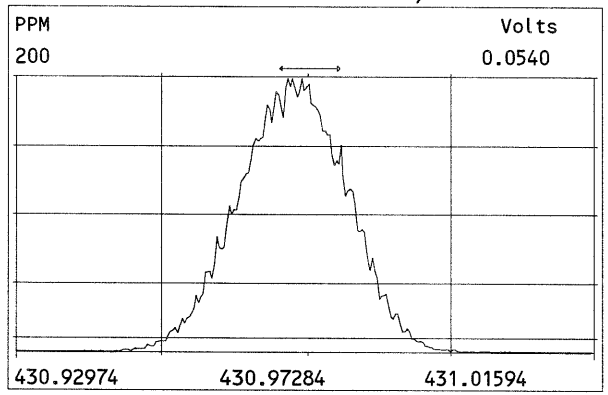


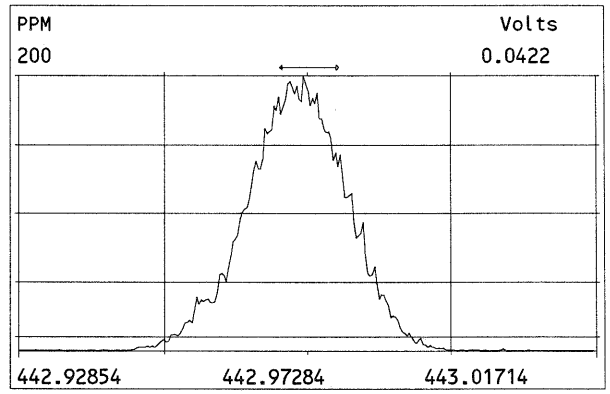


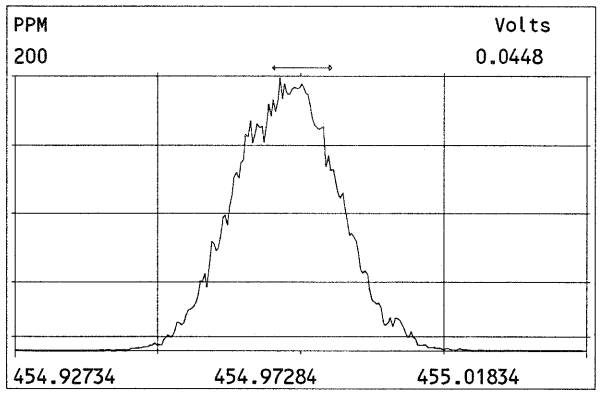


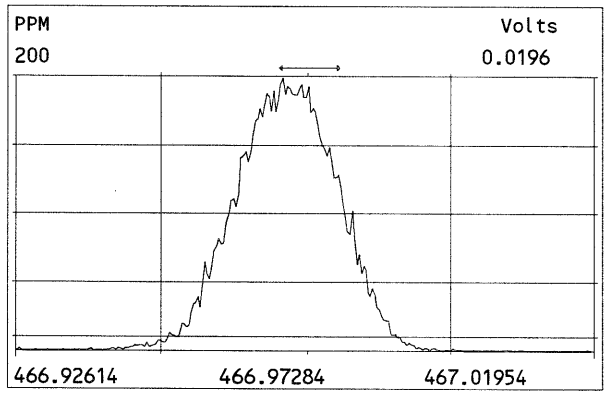
Peak Locate Examination: 3-APR-2019:07:41 File:03APR19Z
Experiment:1668PCB Function:6 Reference:PFK 77

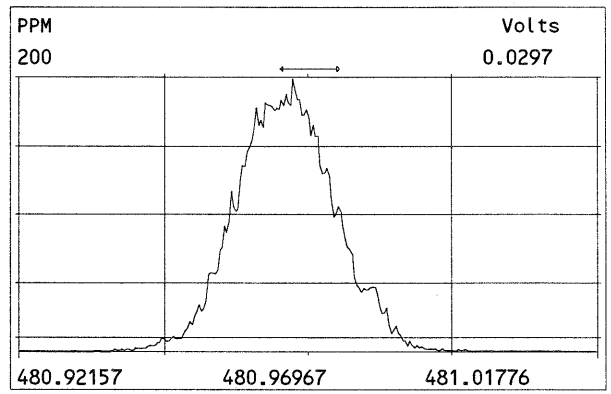


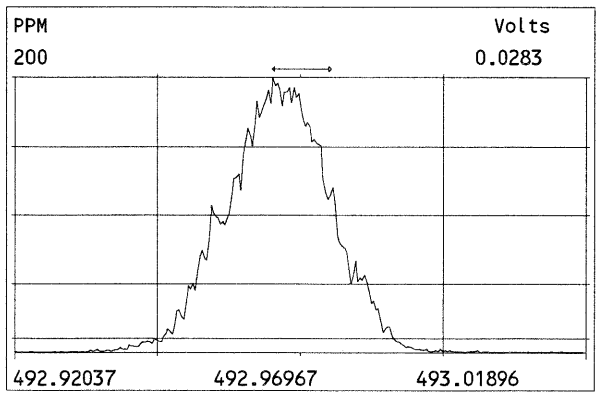


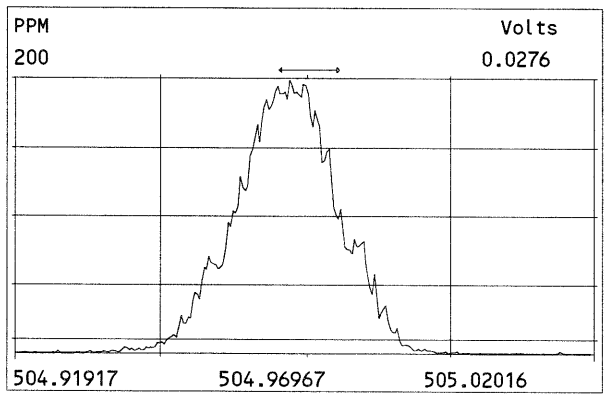


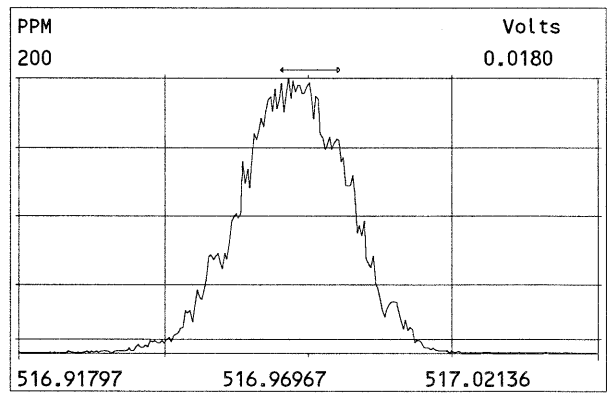




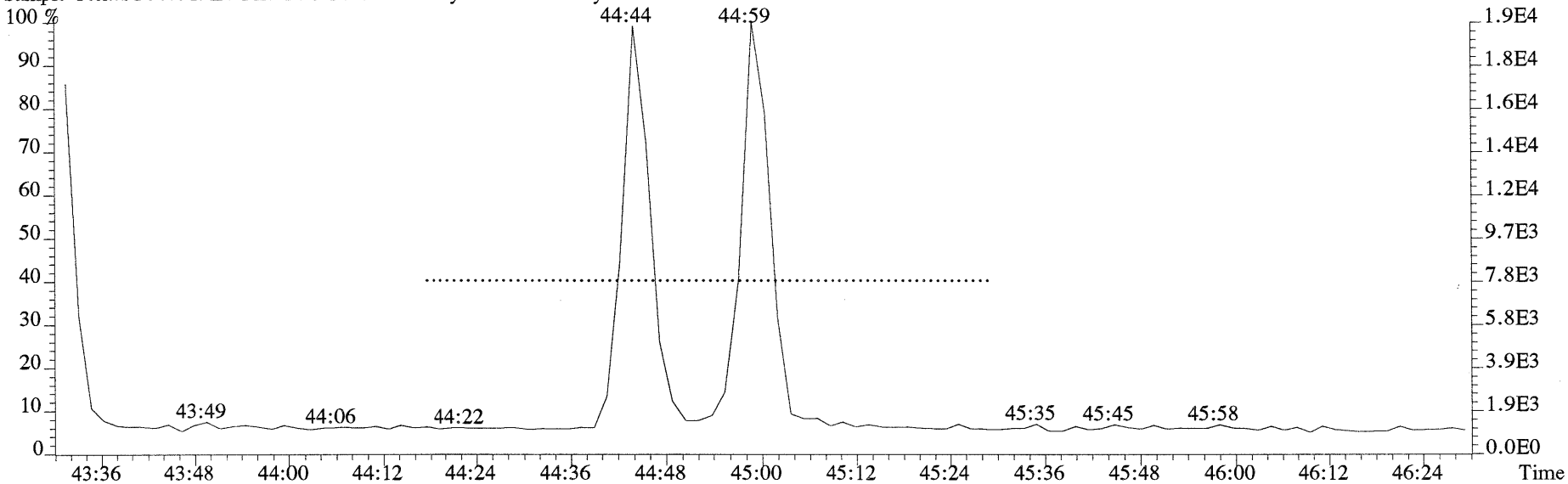




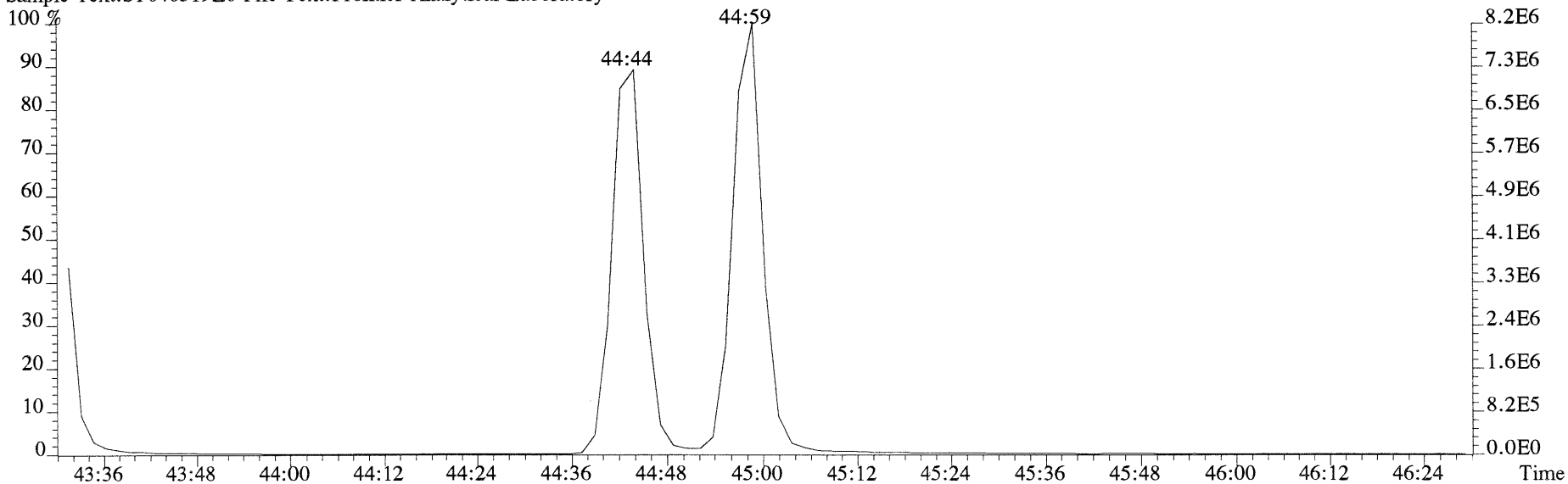




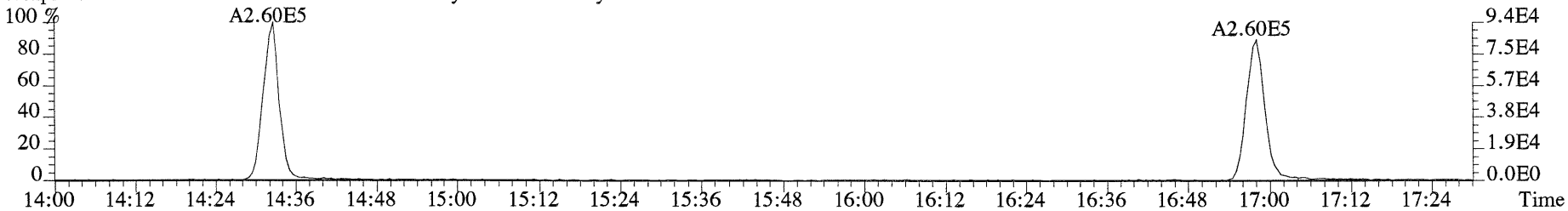
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



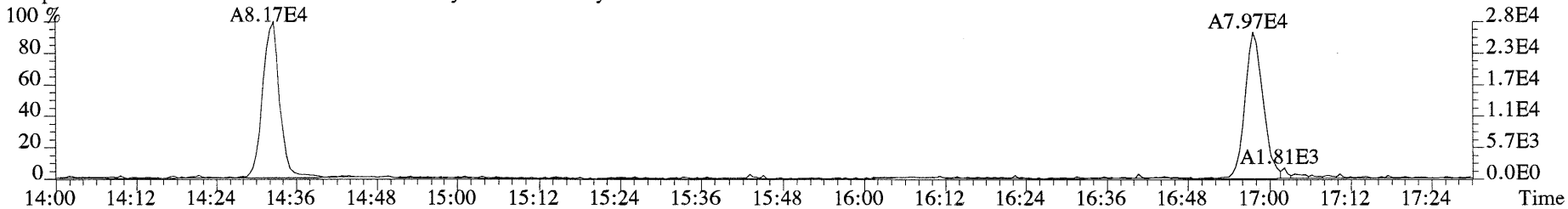
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



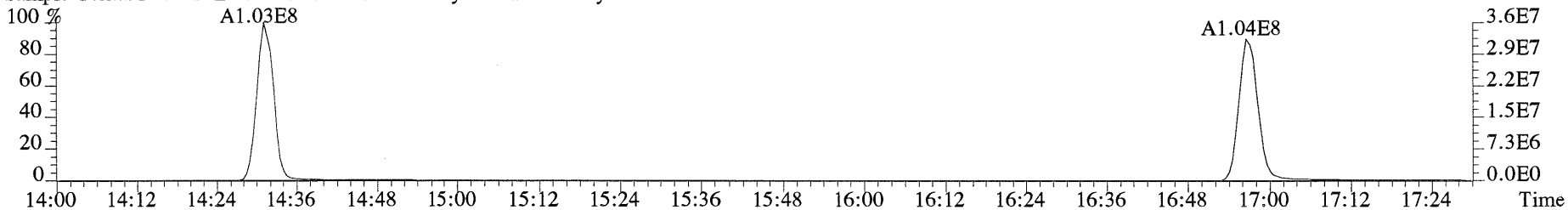
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



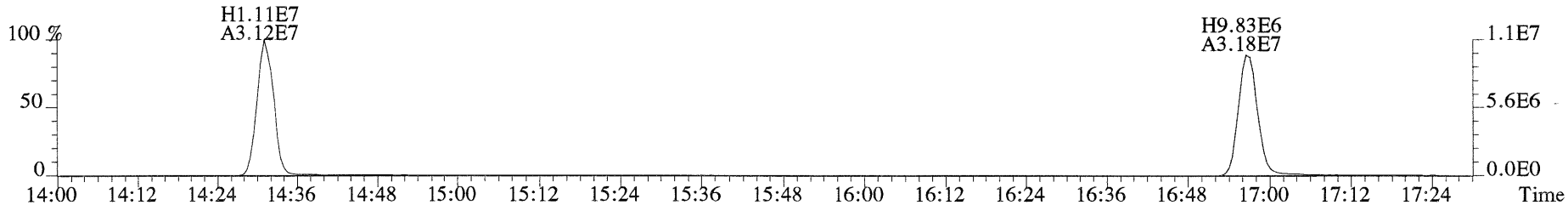
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



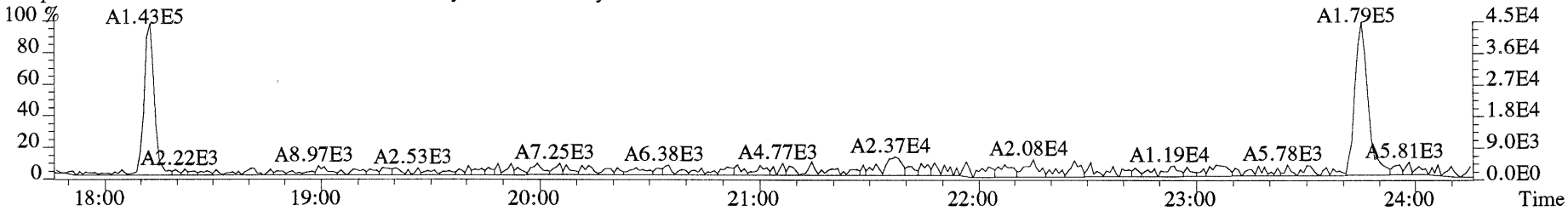
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



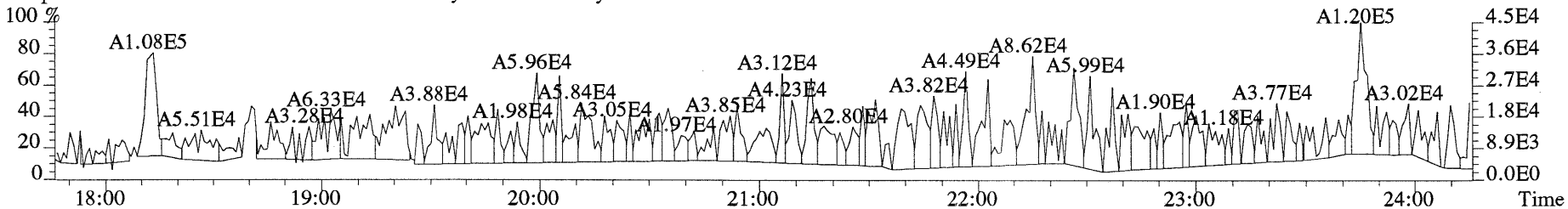
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



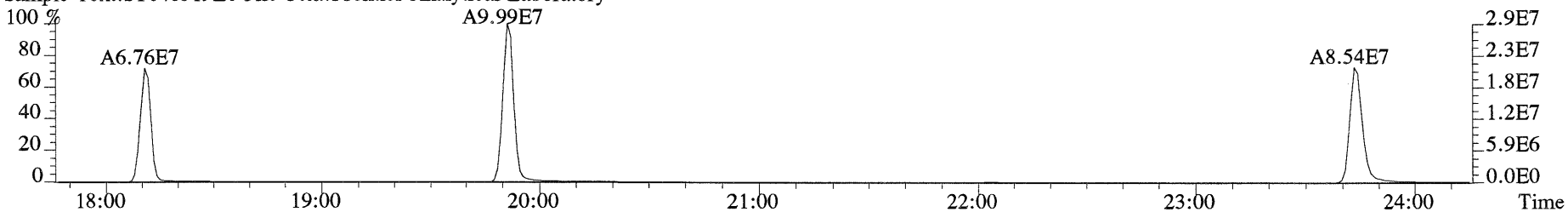
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



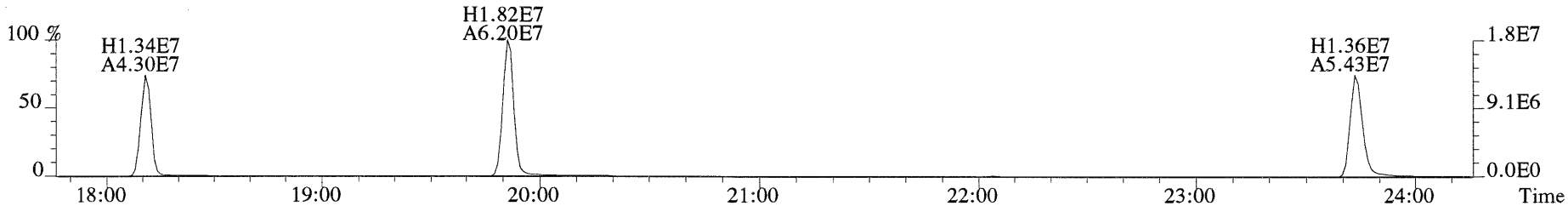
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



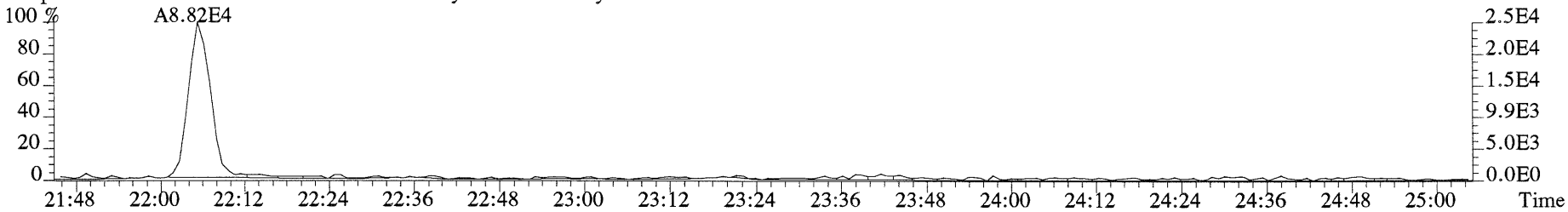
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



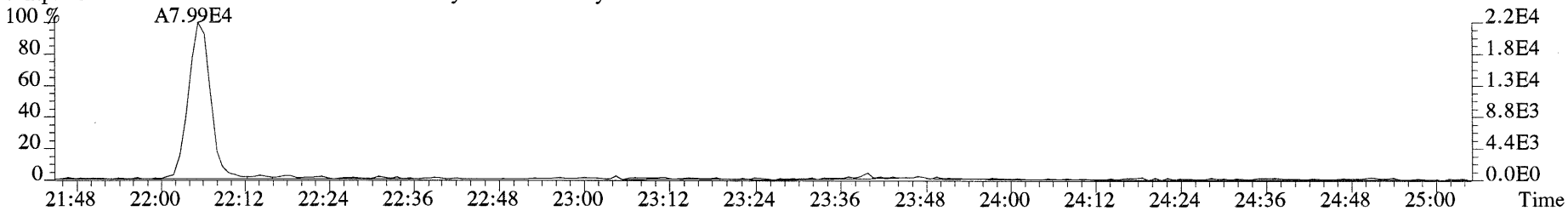
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



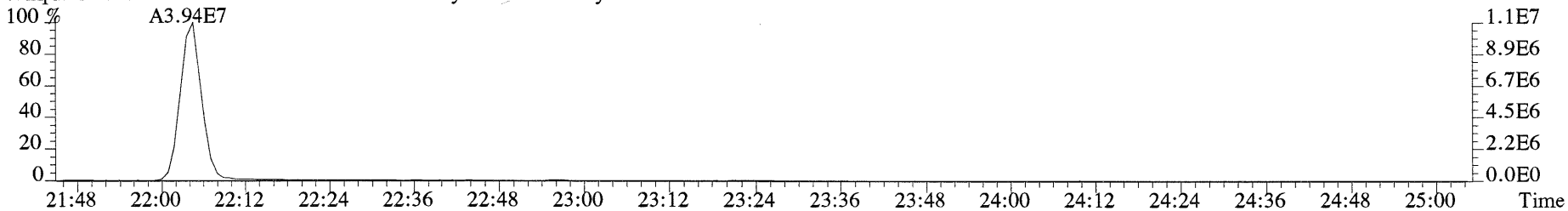
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



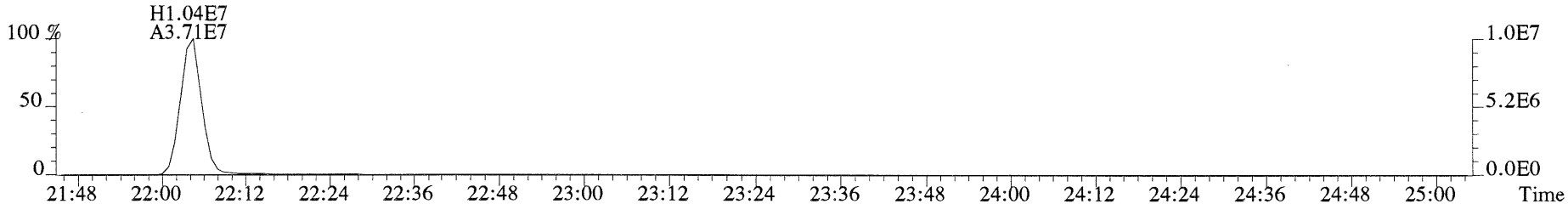
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



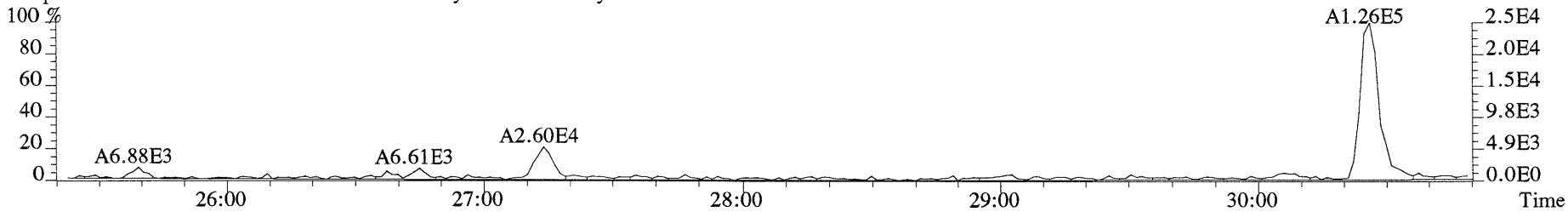
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



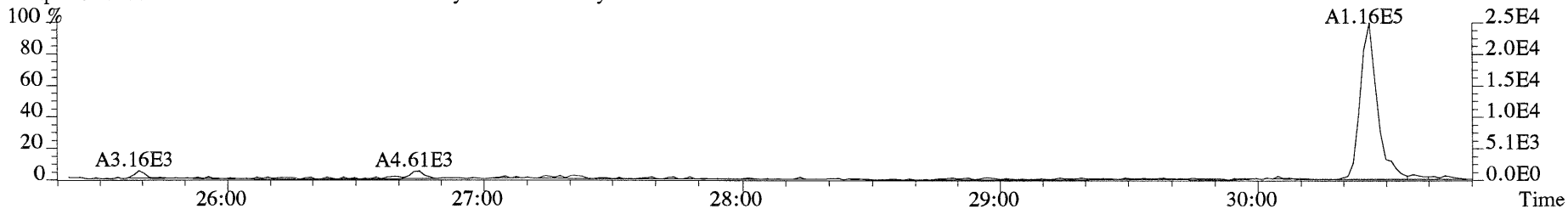
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



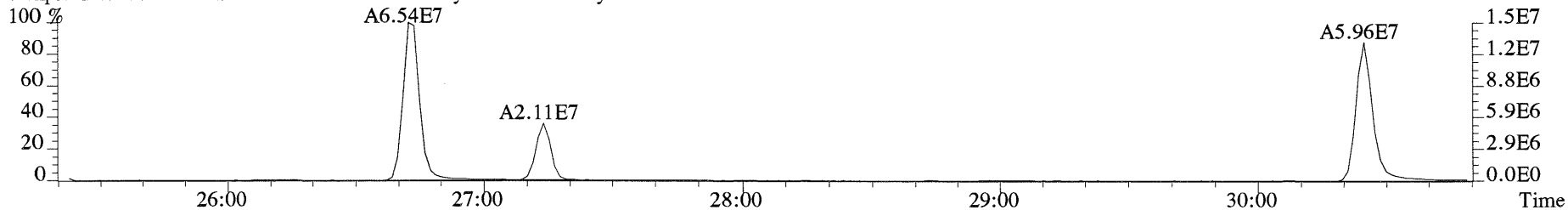
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



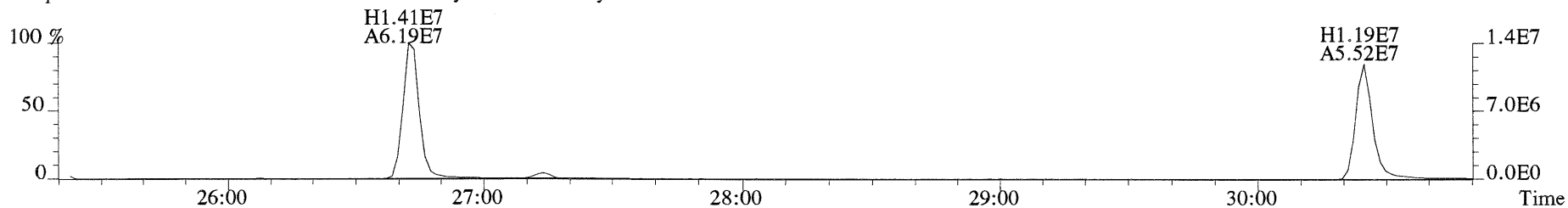
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



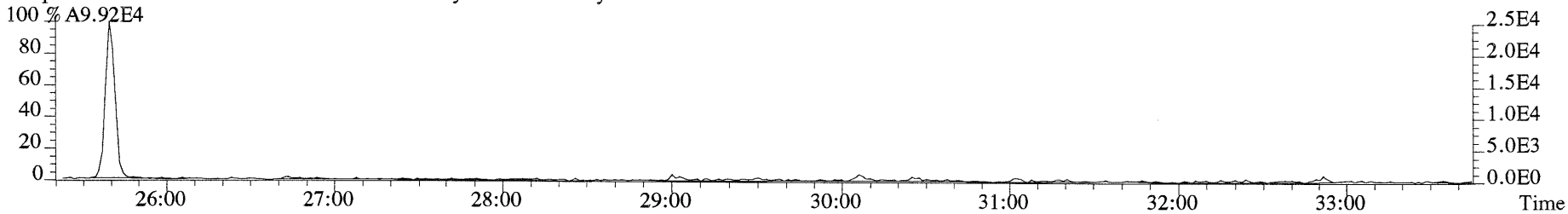
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



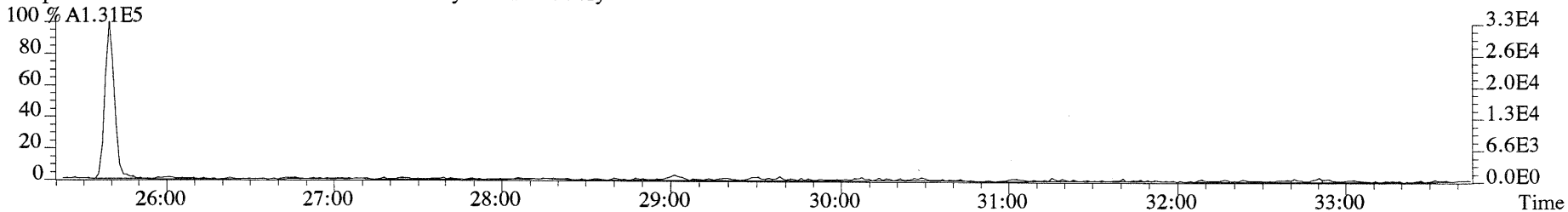
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



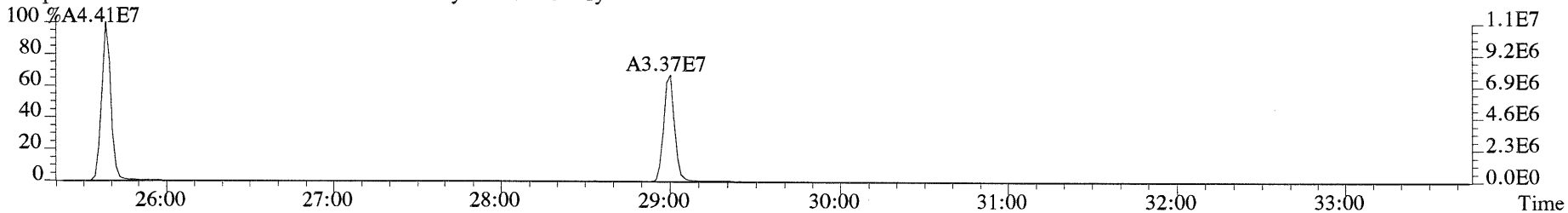
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



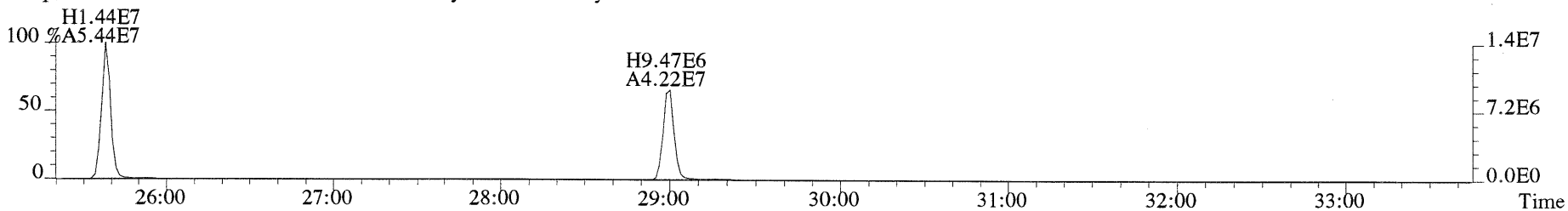
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



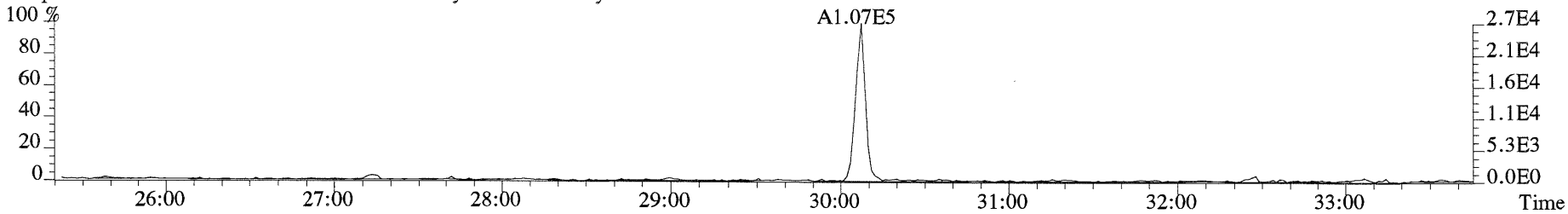
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



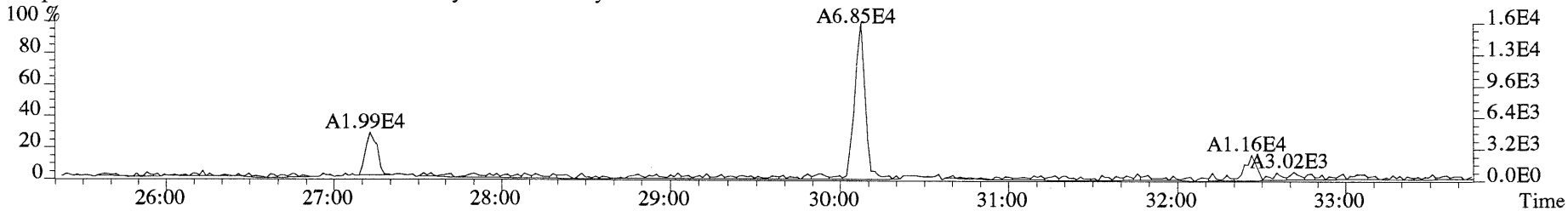
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



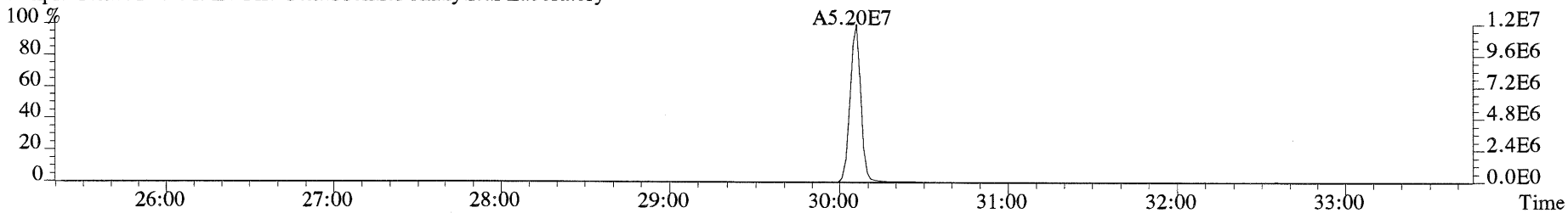
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



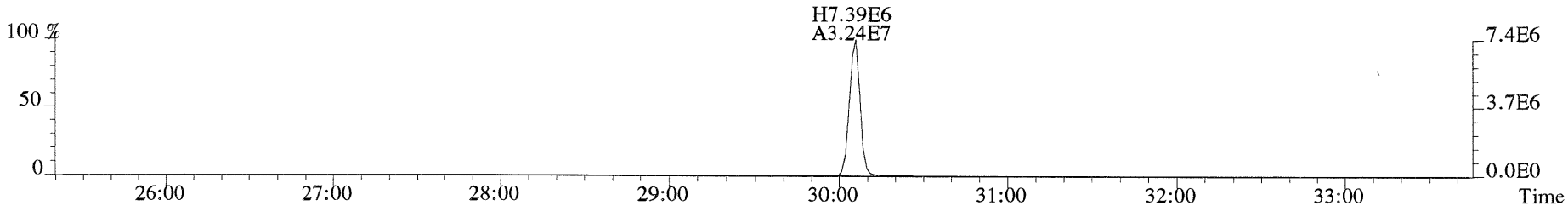
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



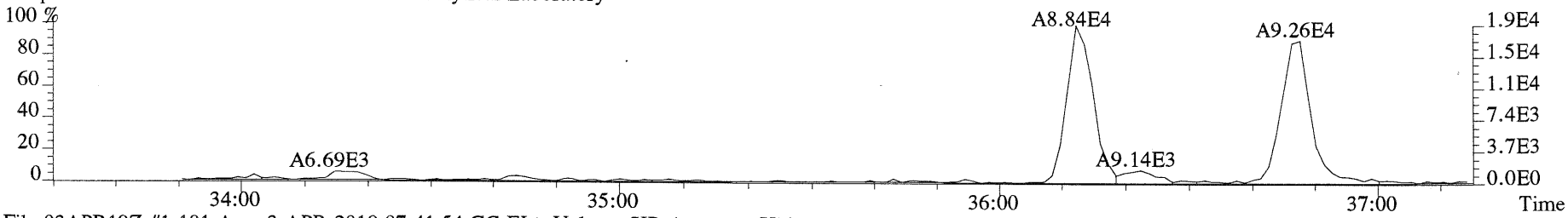
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



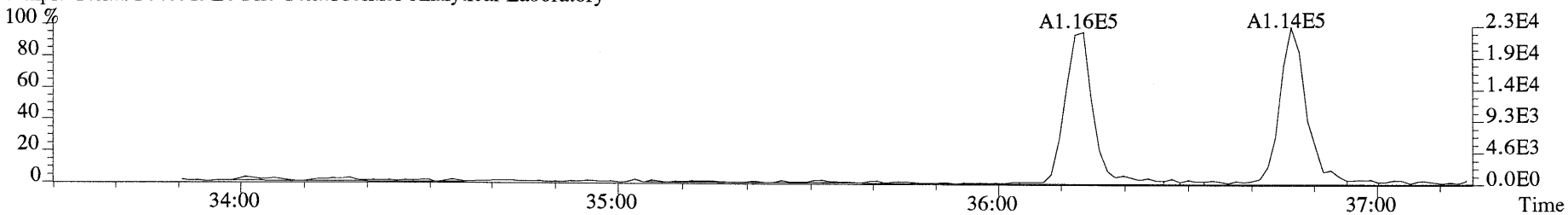
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



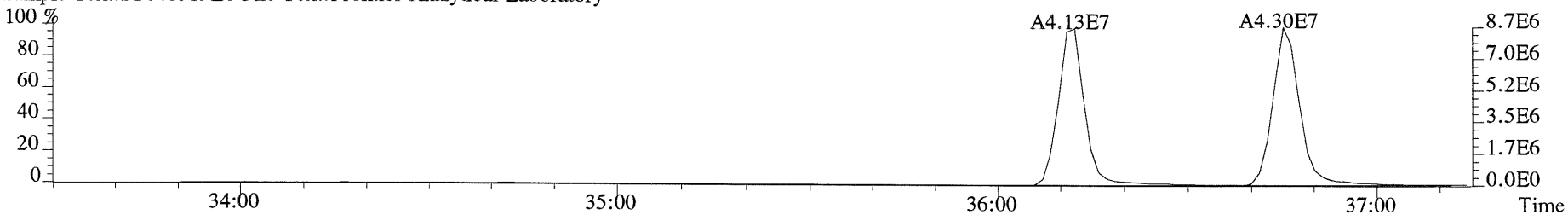
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



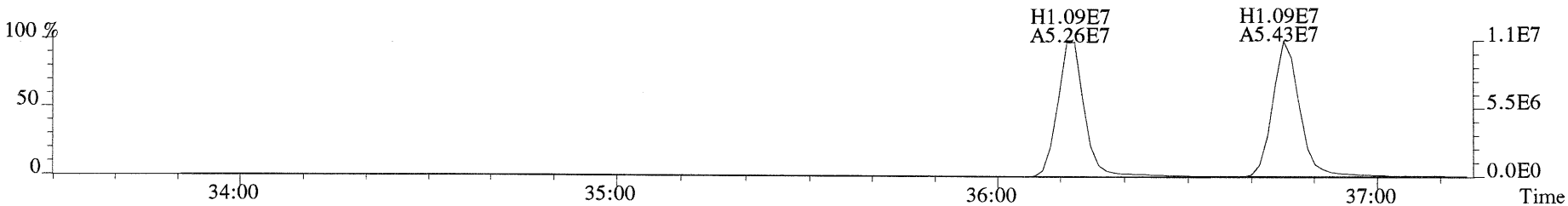
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



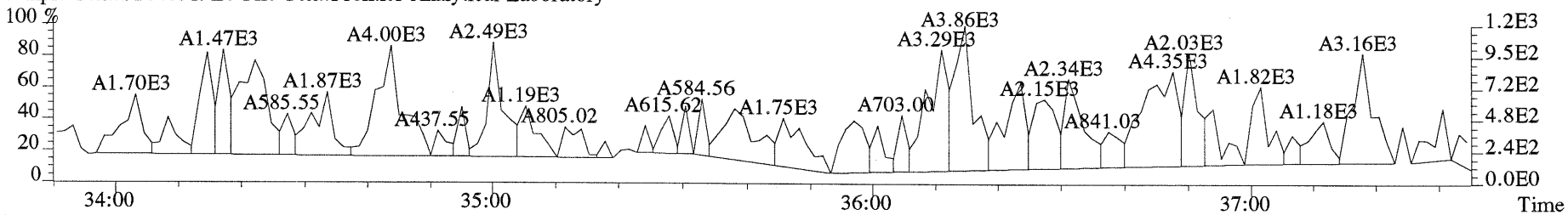
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



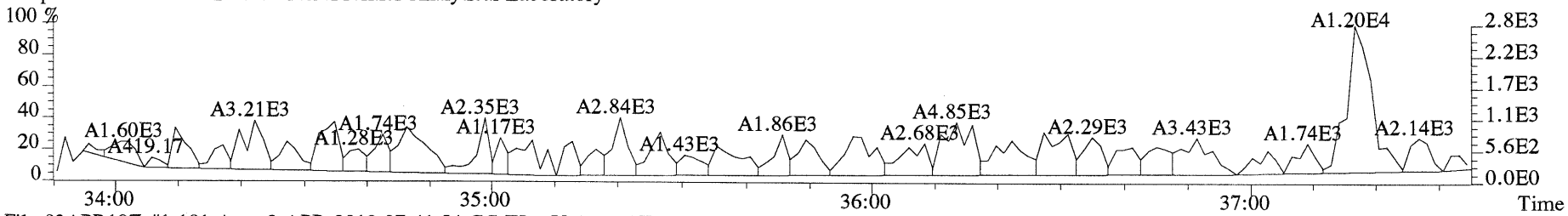
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



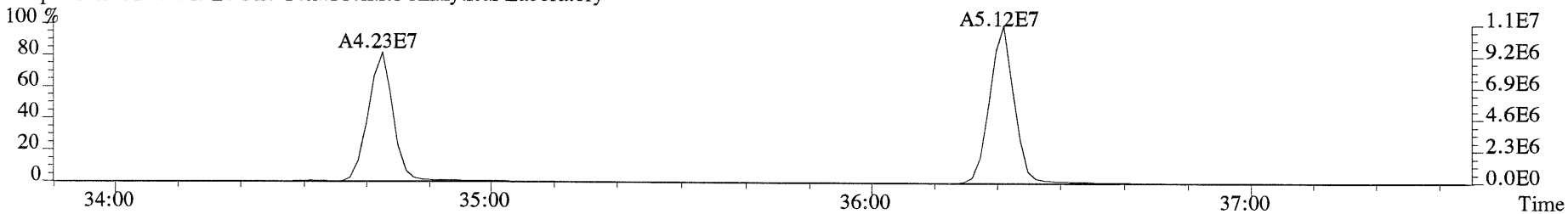
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



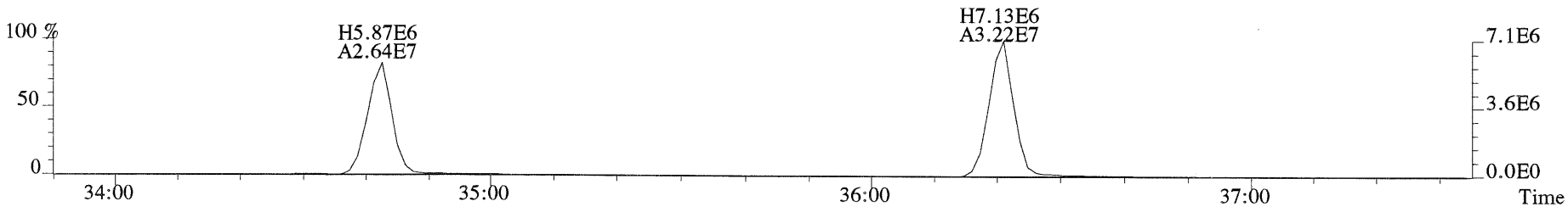
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



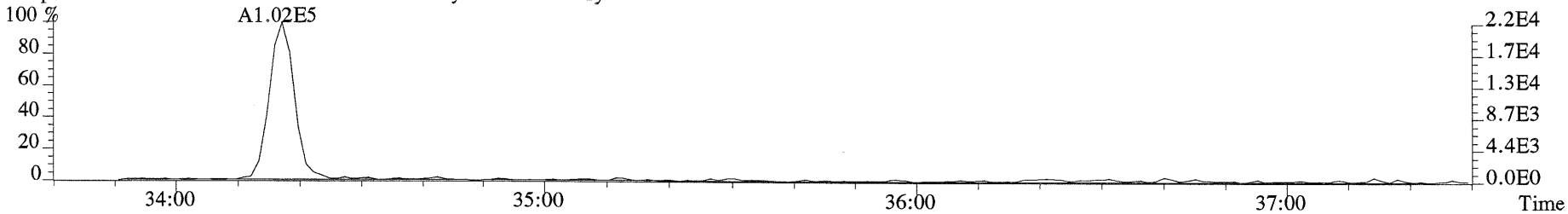
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



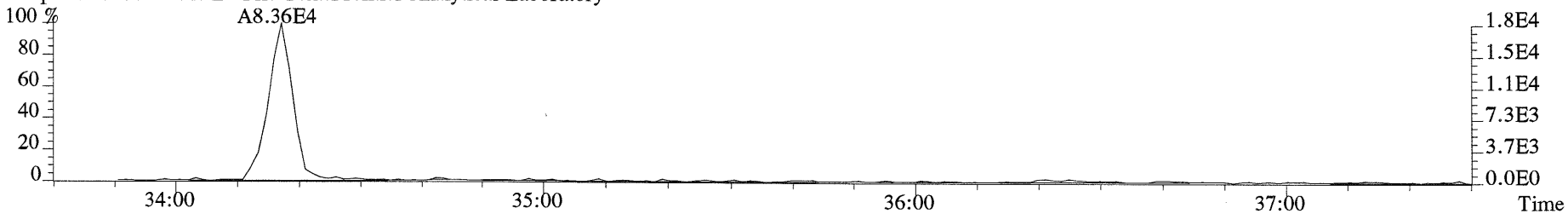
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



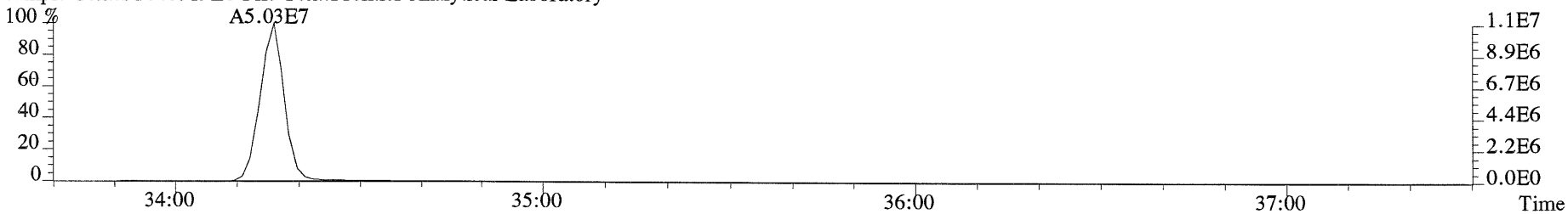
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



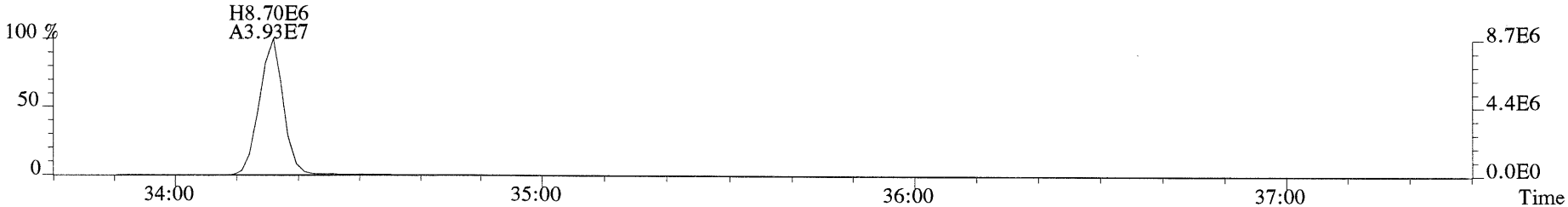
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



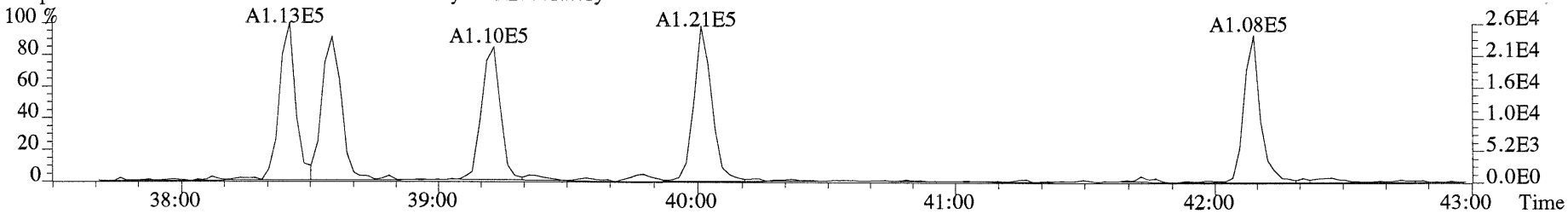
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



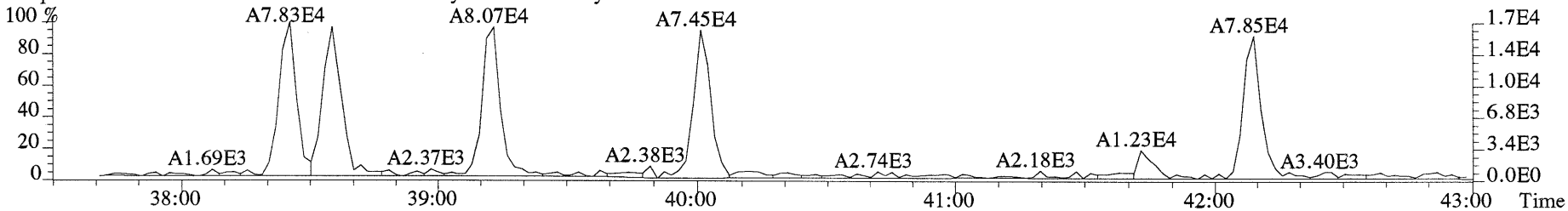
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



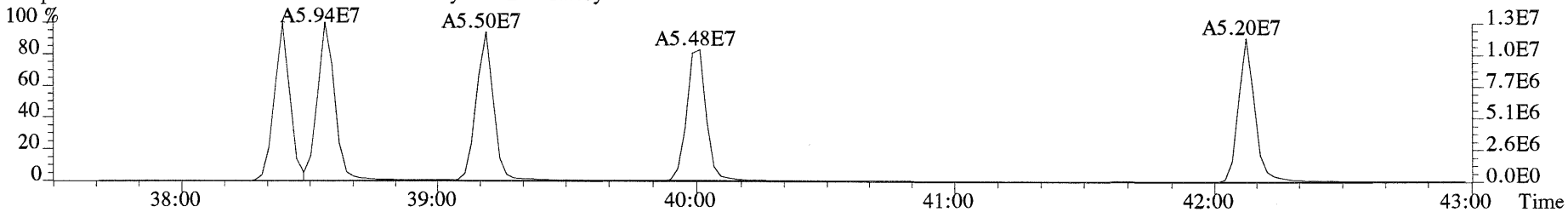
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



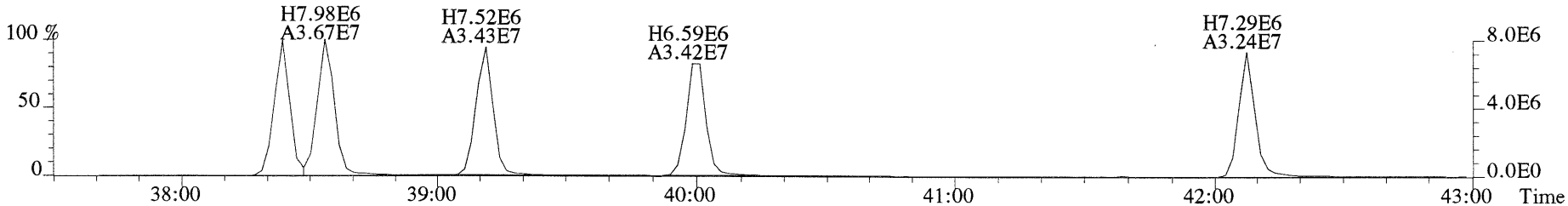
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



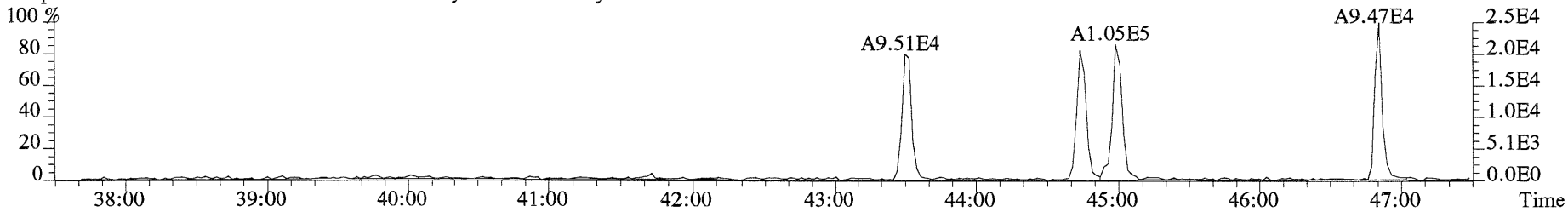
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



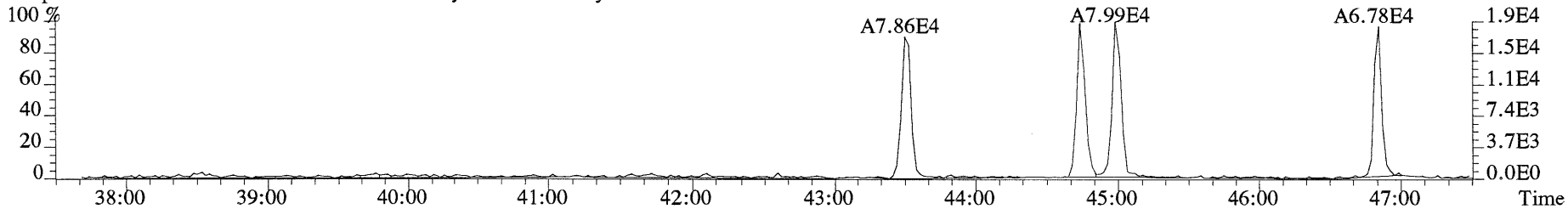
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



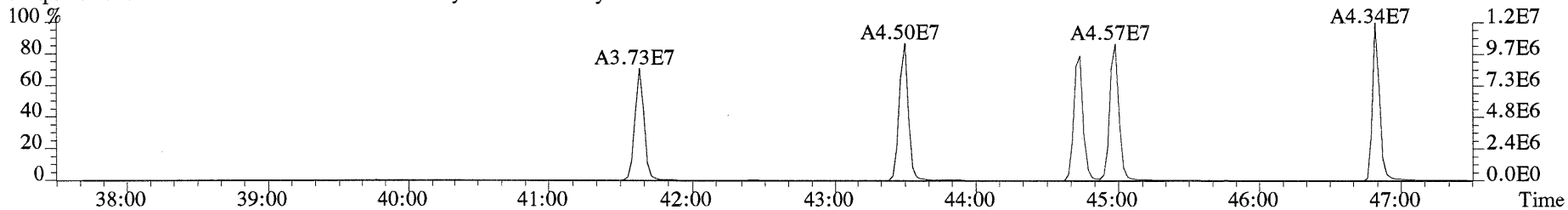
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



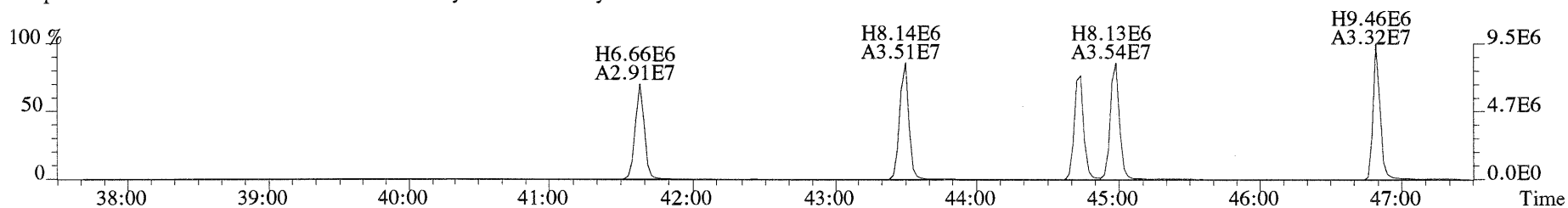
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



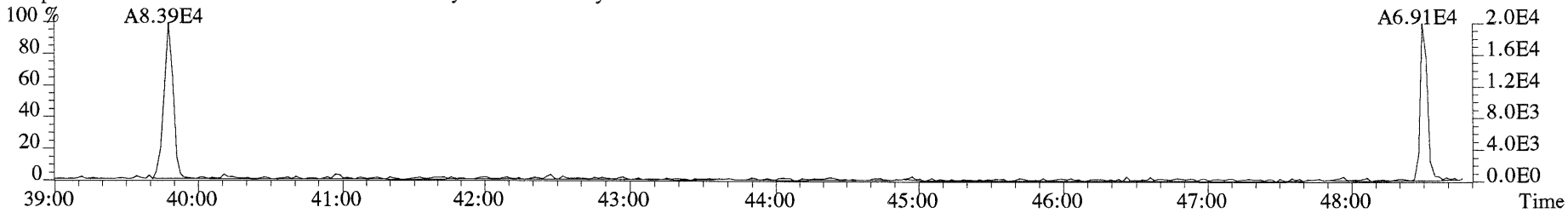
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



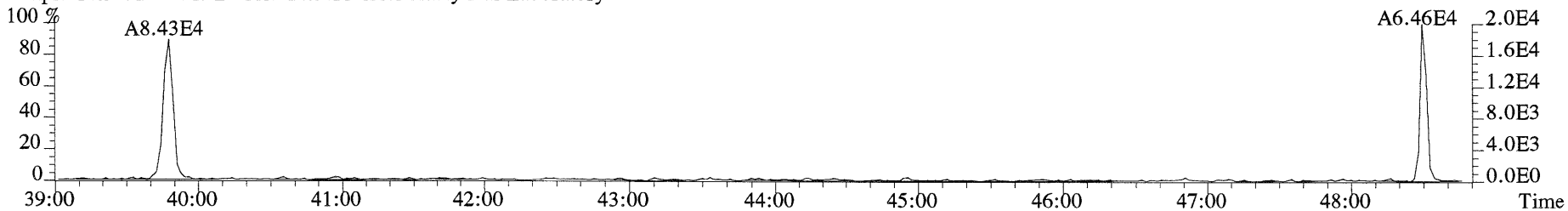
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



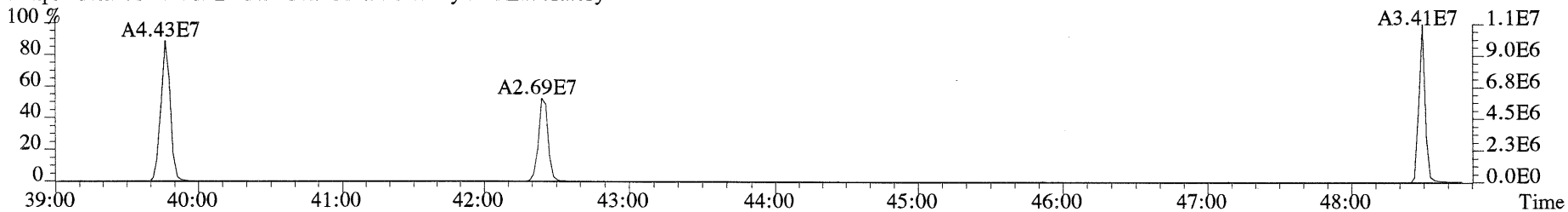
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



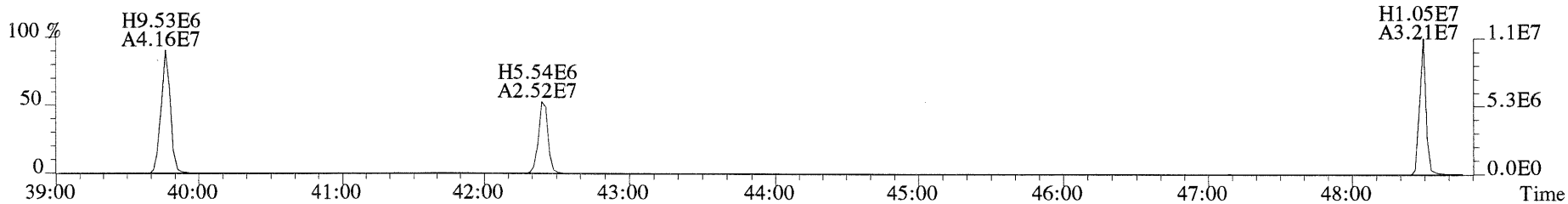
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



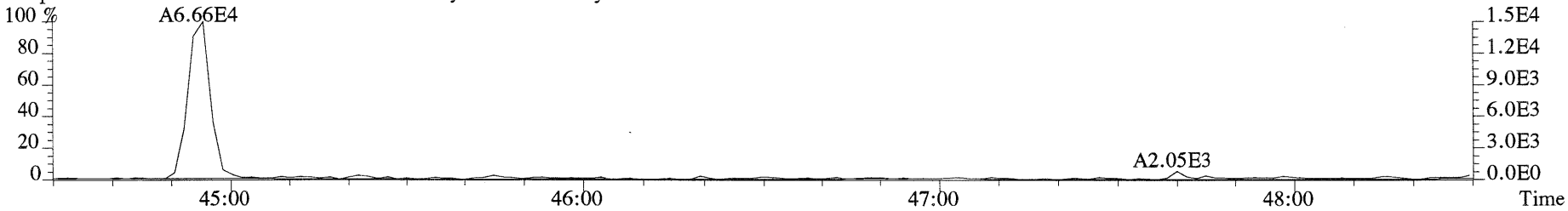
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



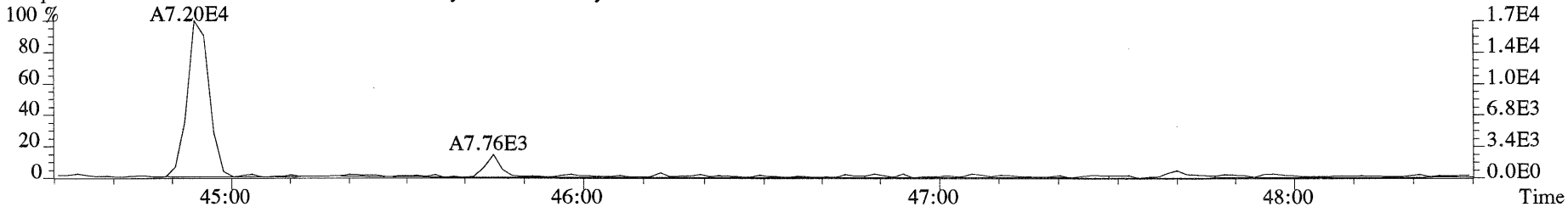
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



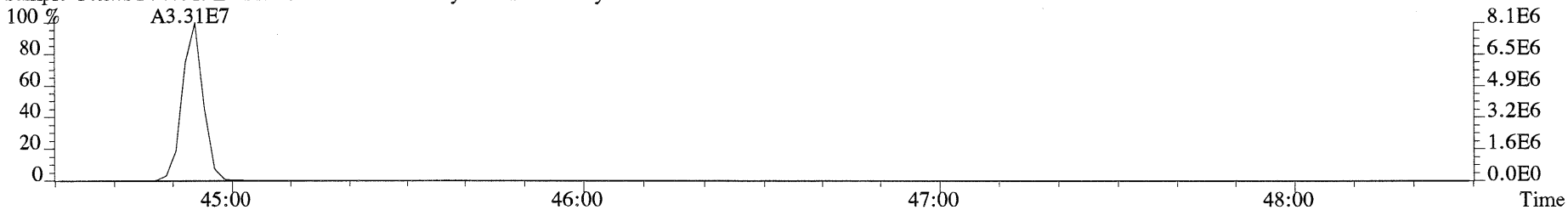
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



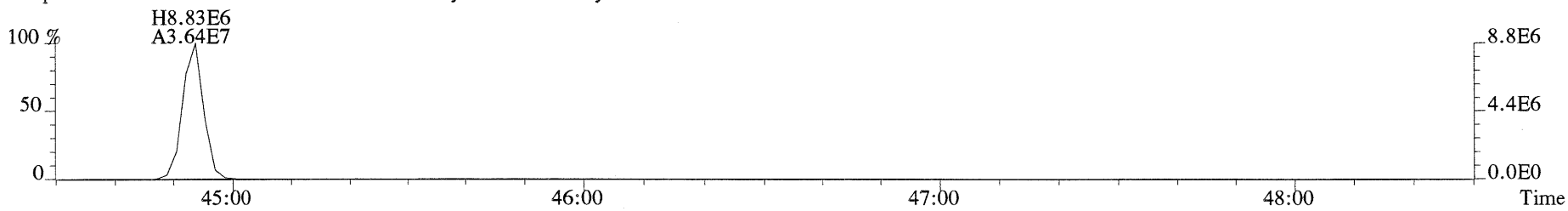
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



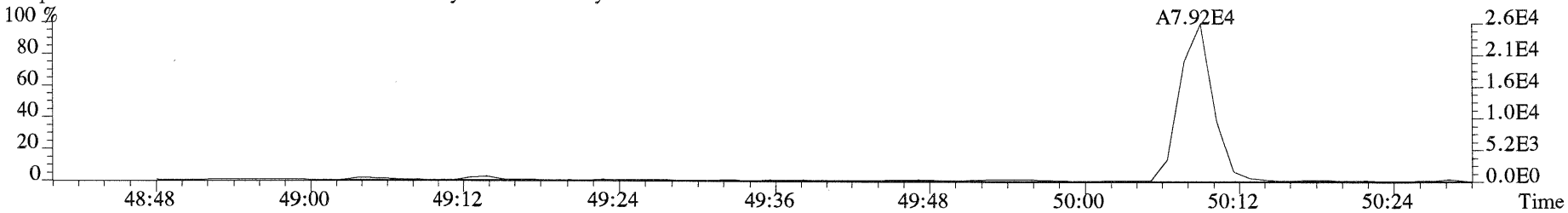
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



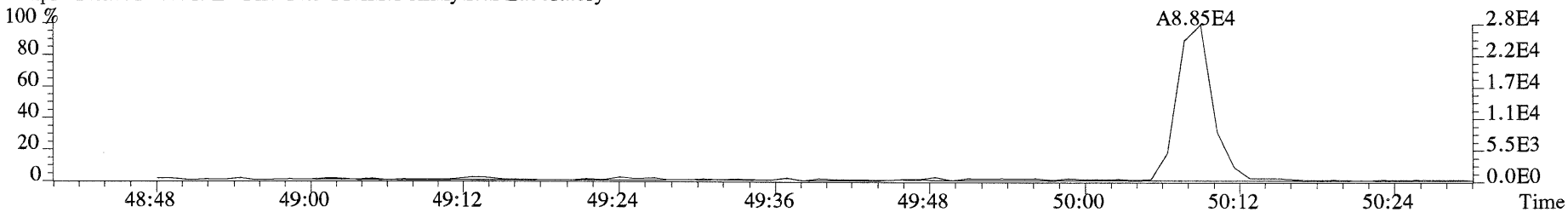
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



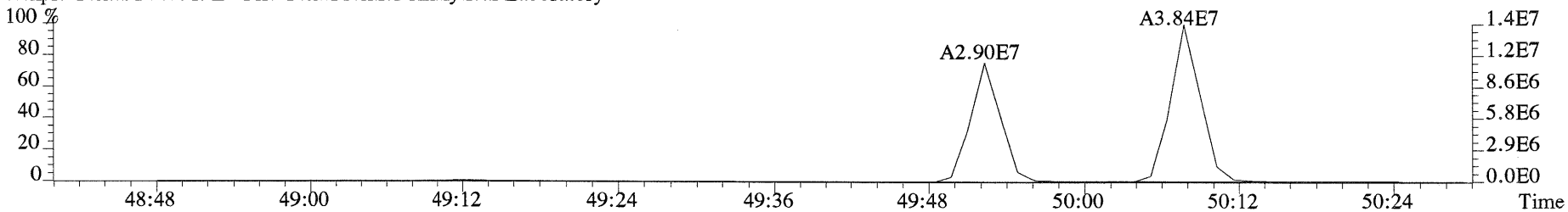
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



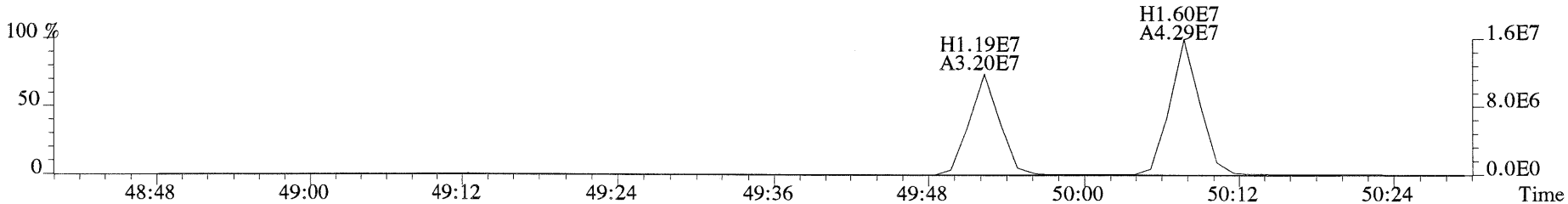
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



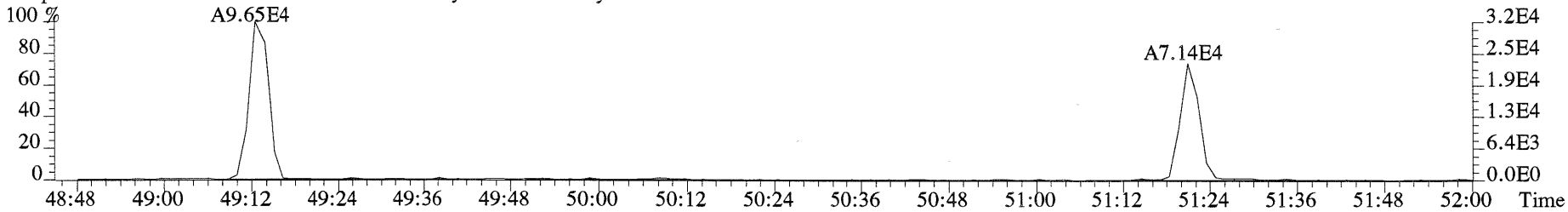
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



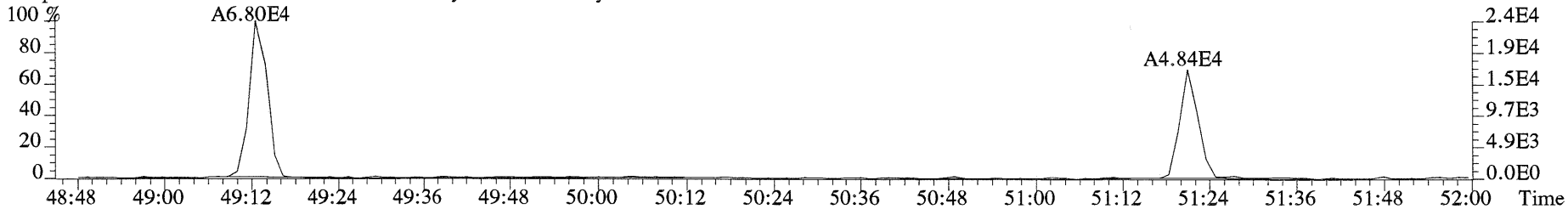
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



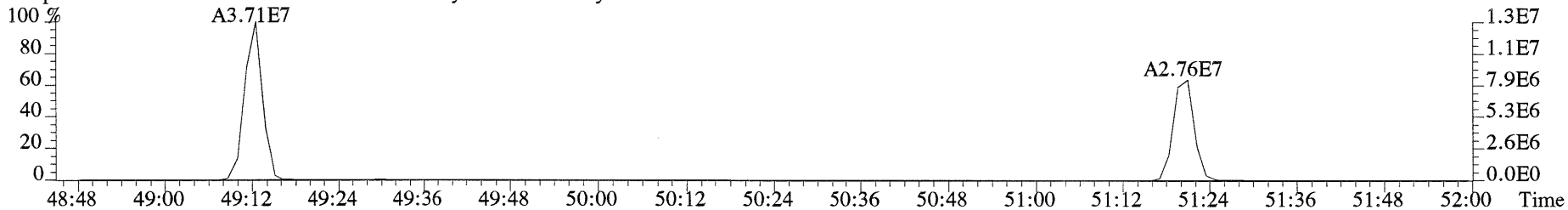
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



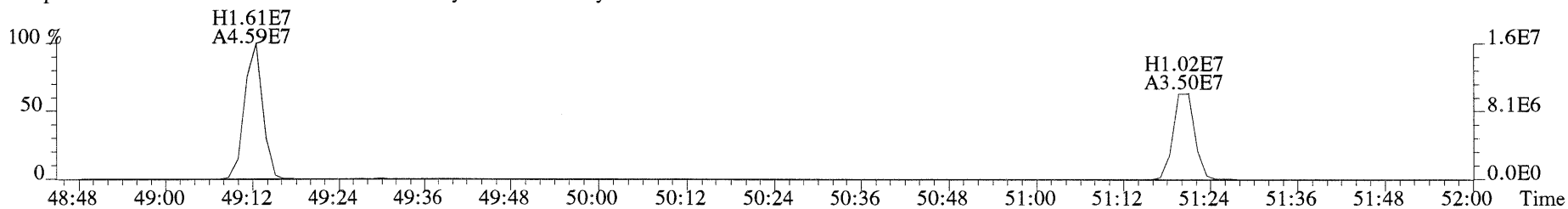
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



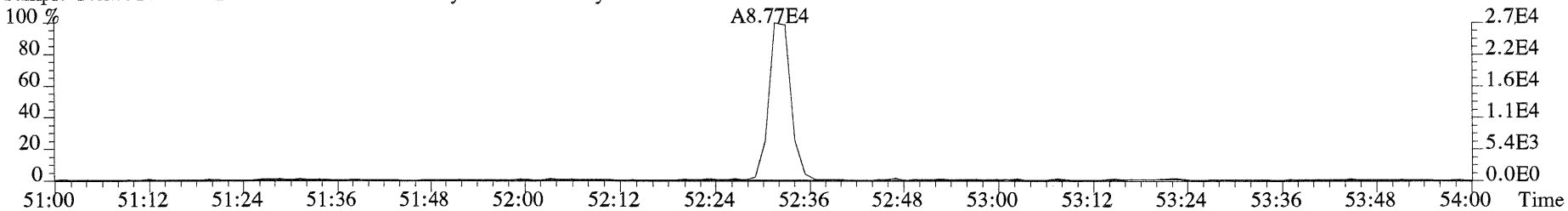
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



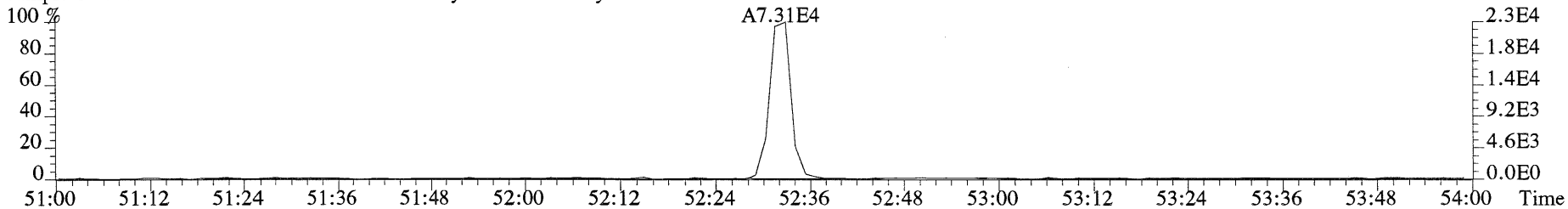
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



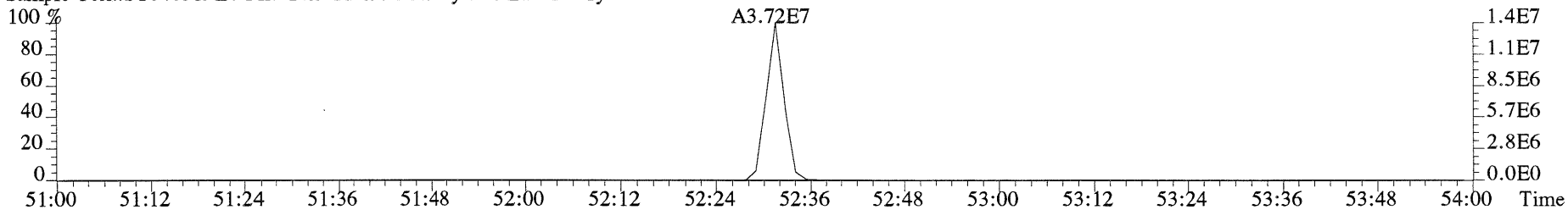
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



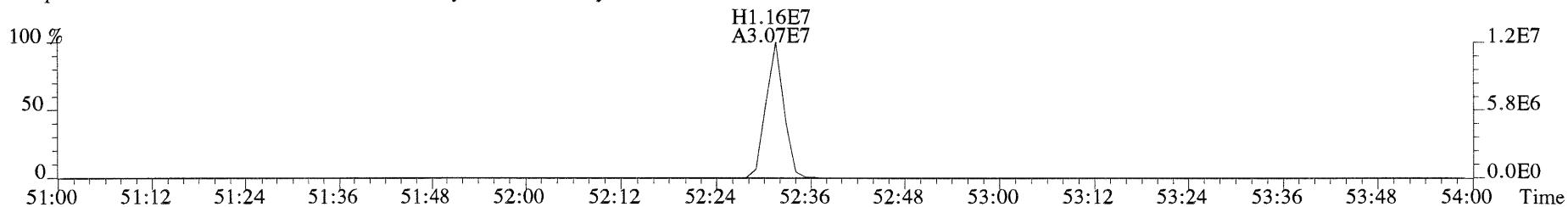
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



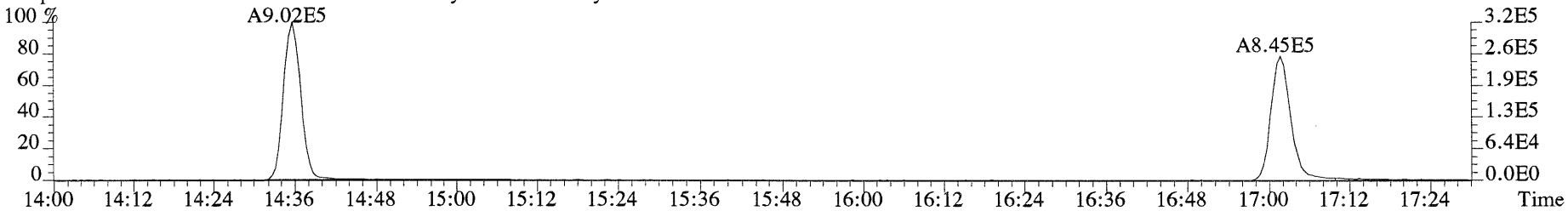
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



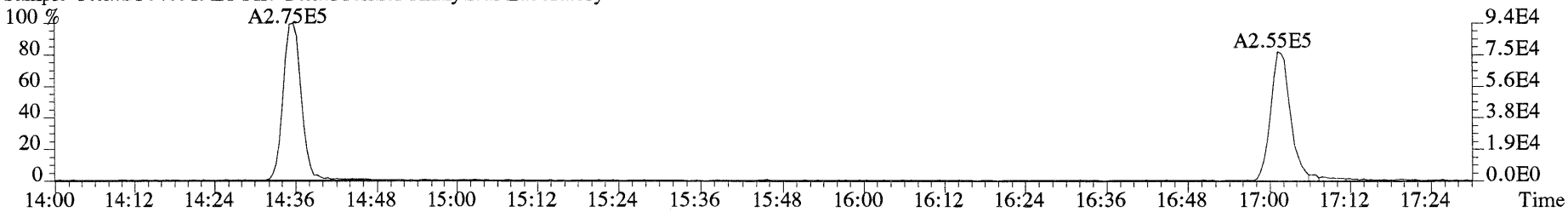
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



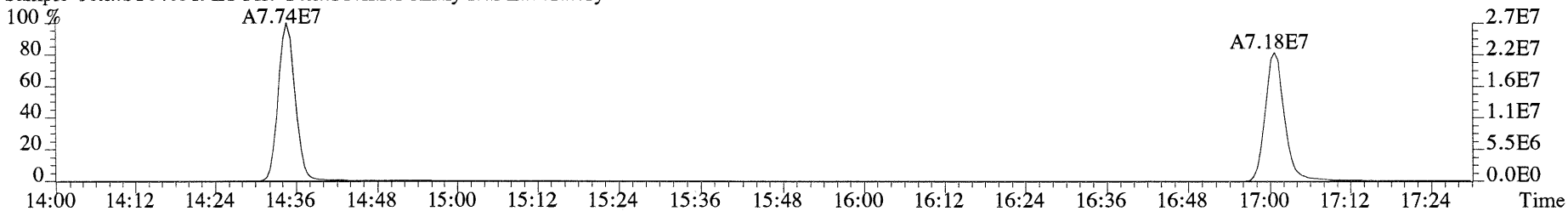
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



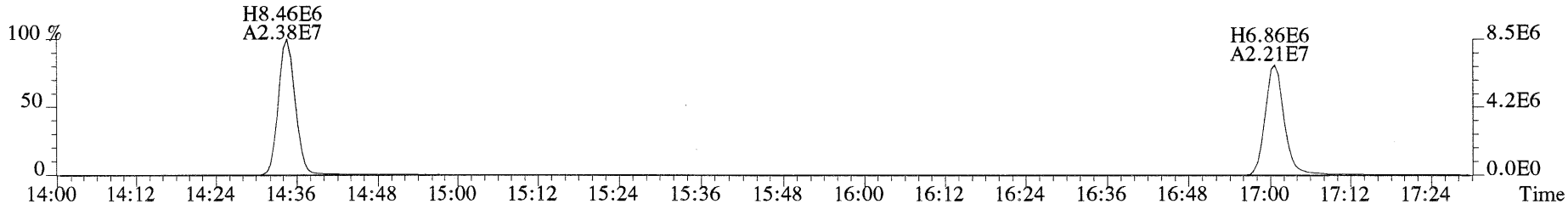
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



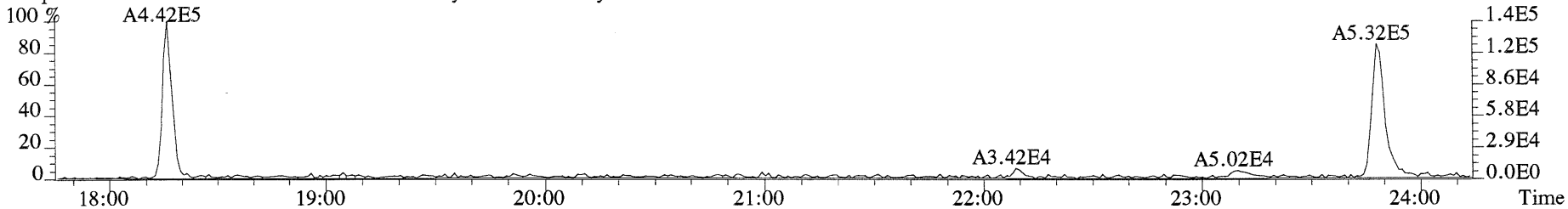
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



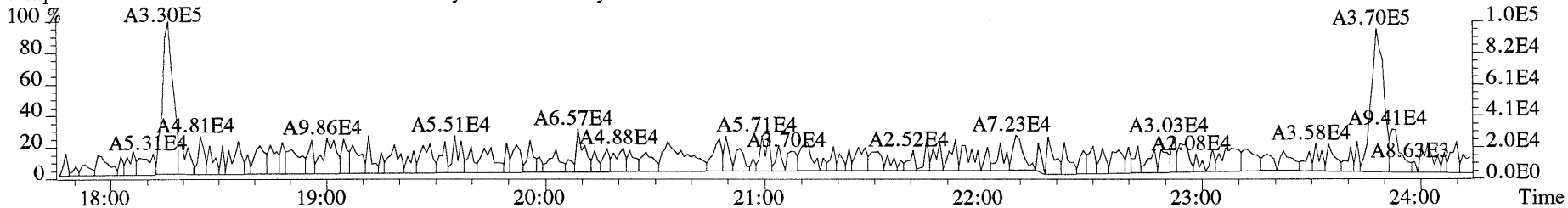
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



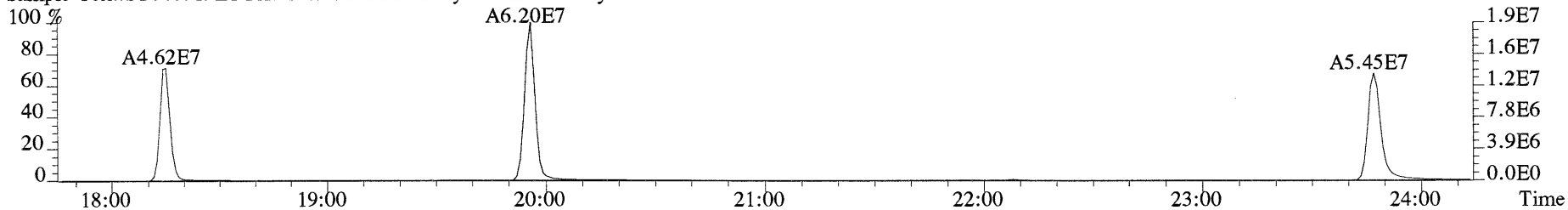
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



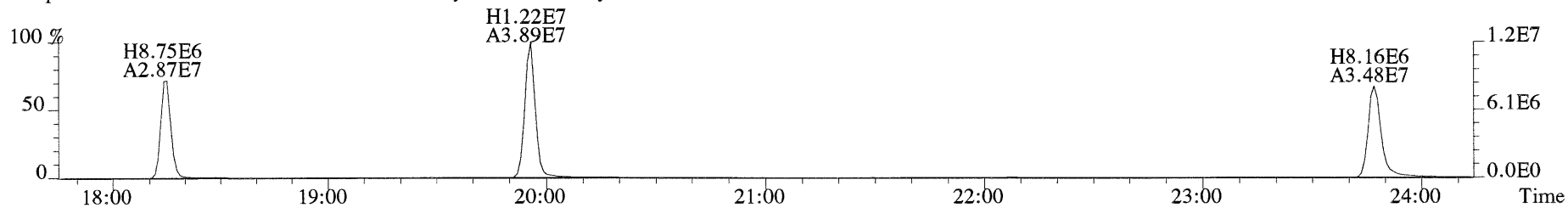
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



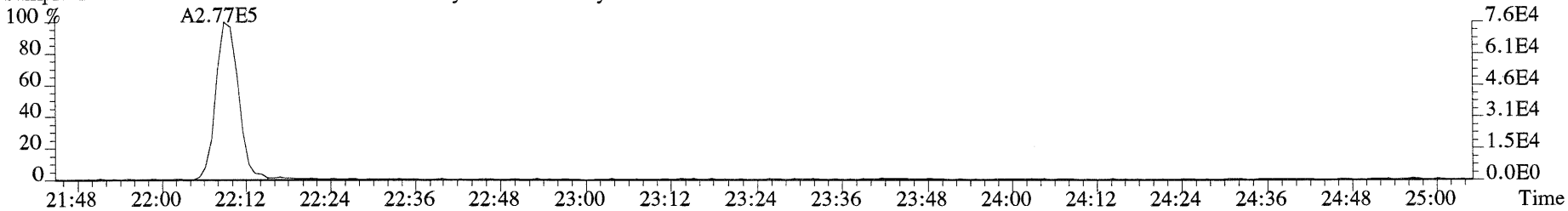
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



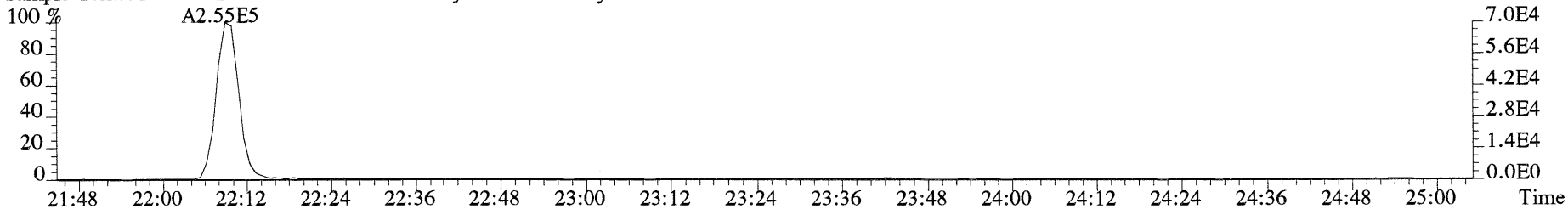
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



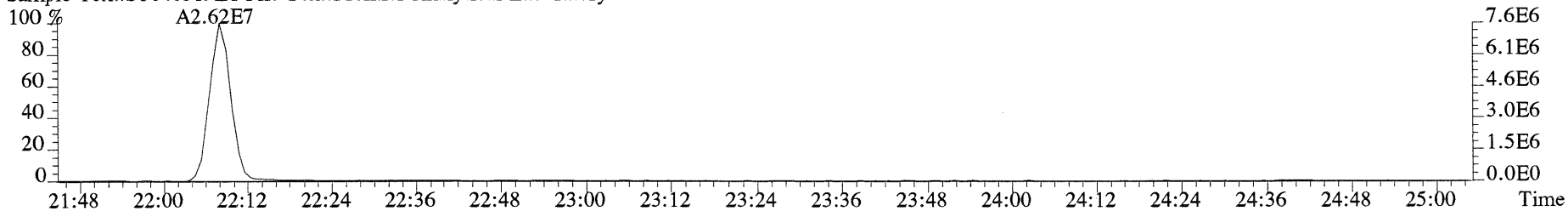
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



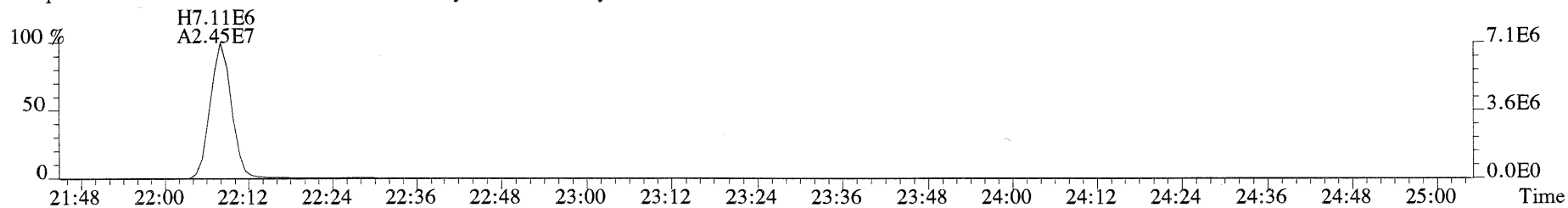
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



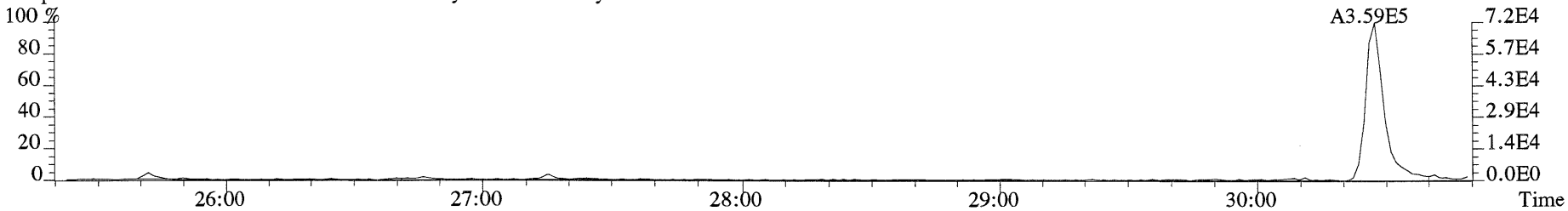
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



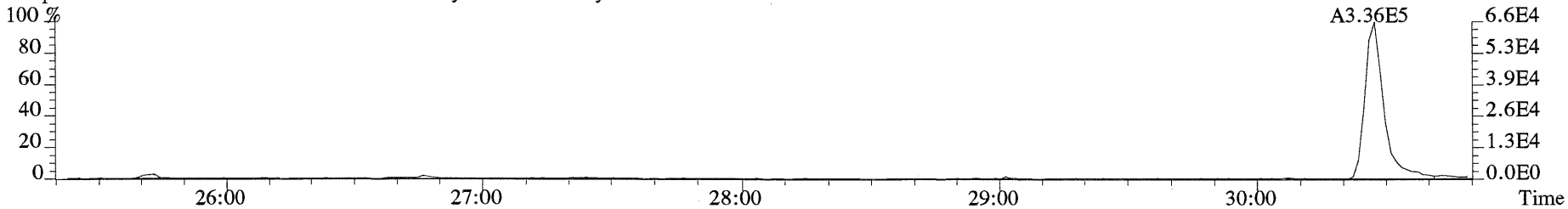
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



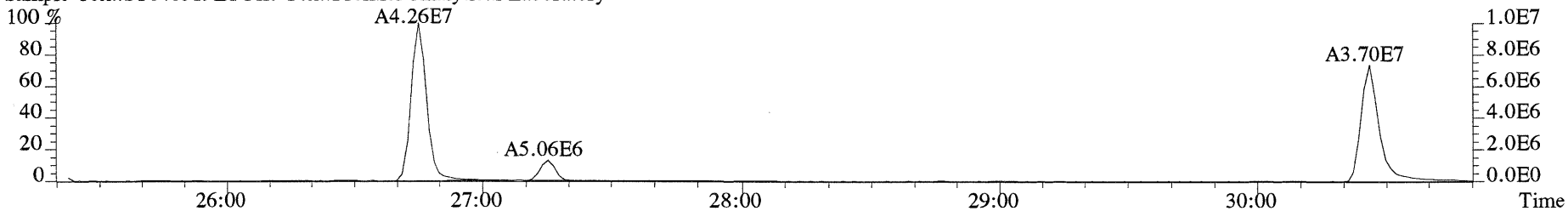
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



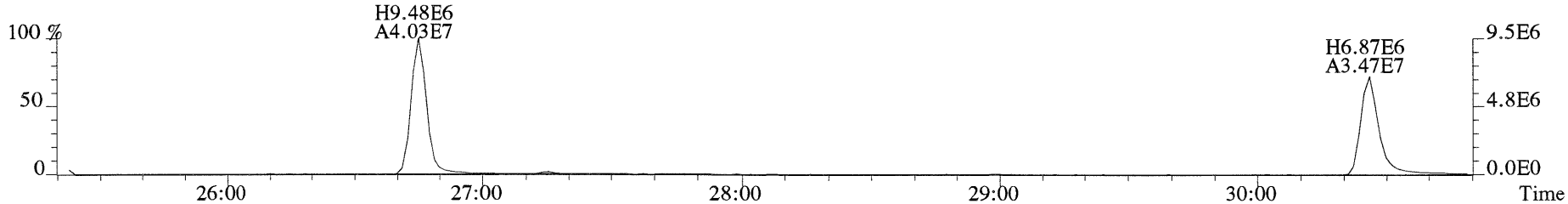
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



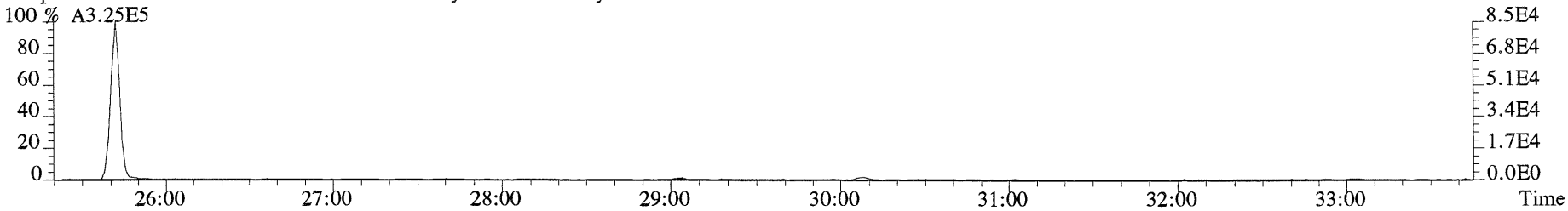
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



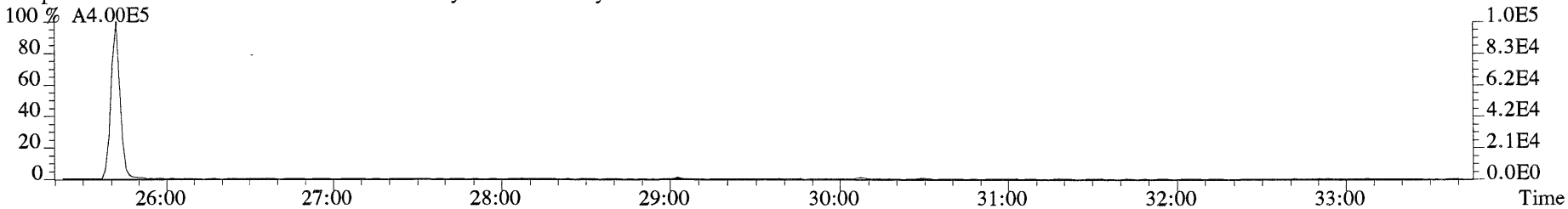
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



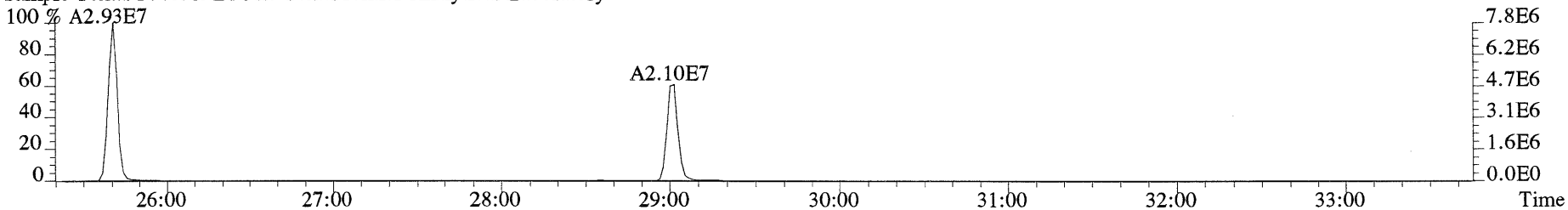
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



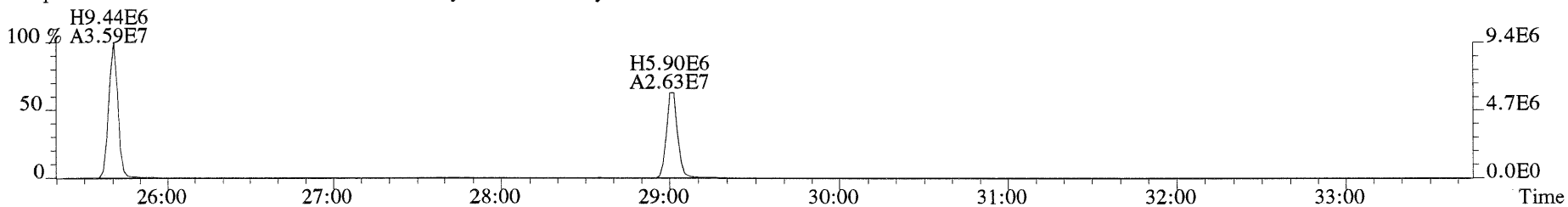
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



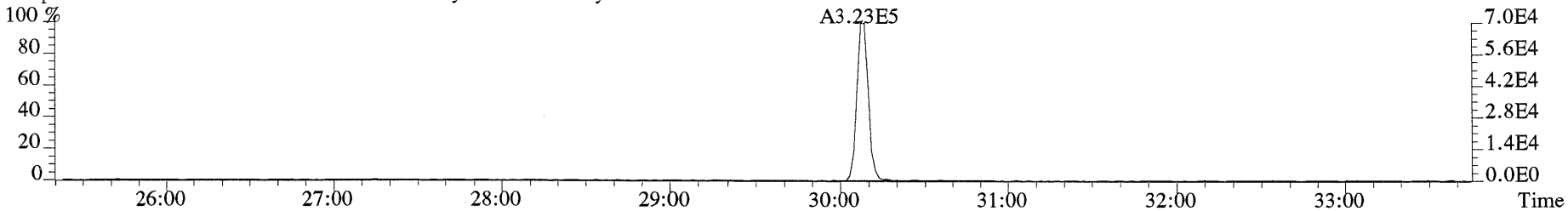
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



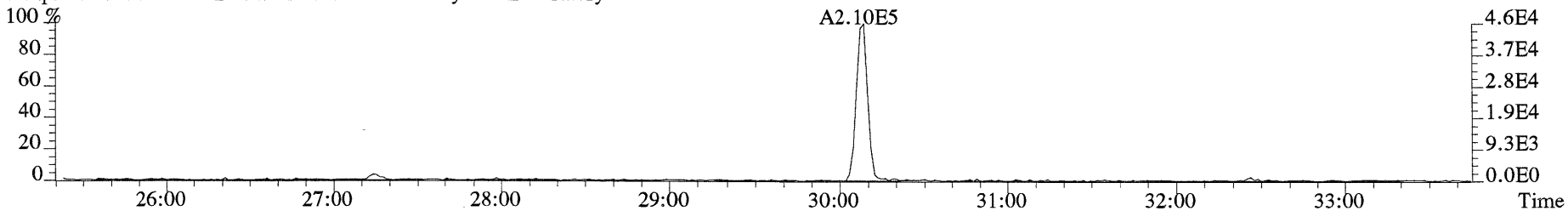
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



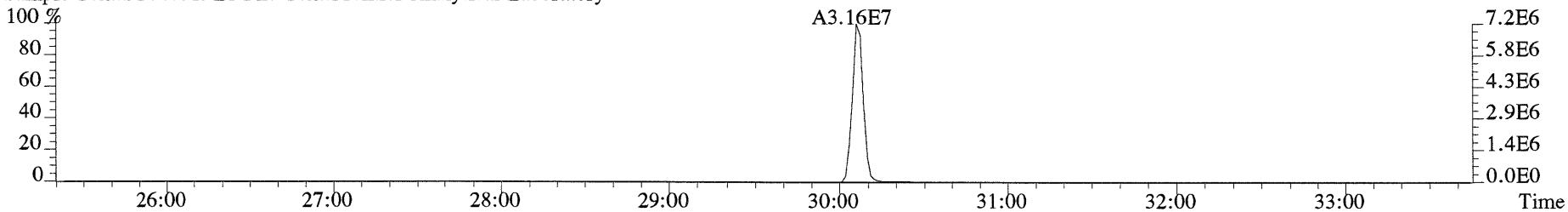
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



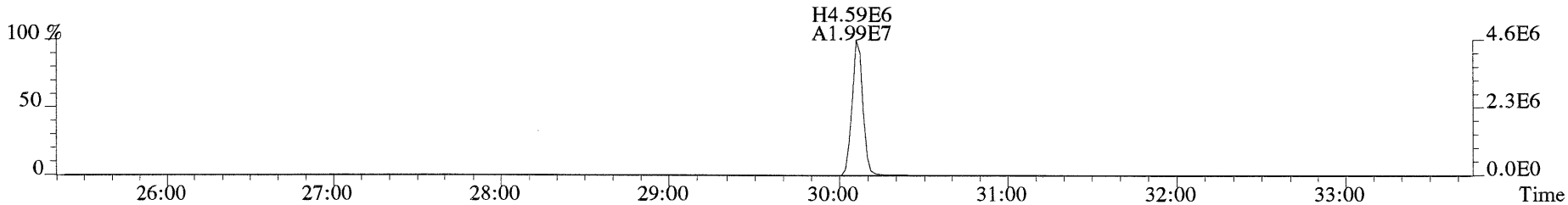
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



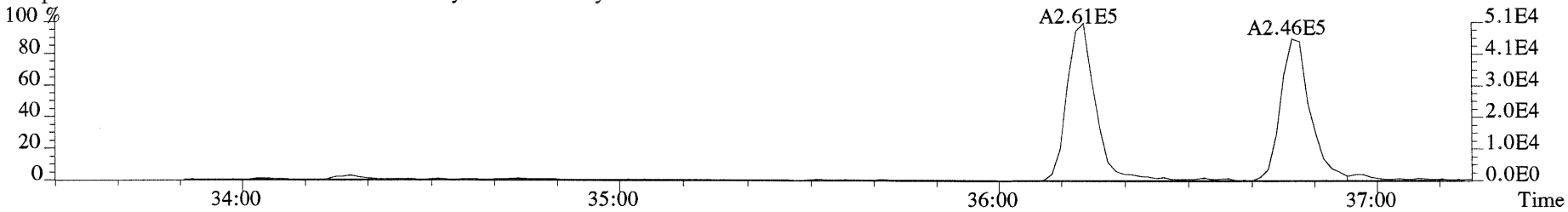
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



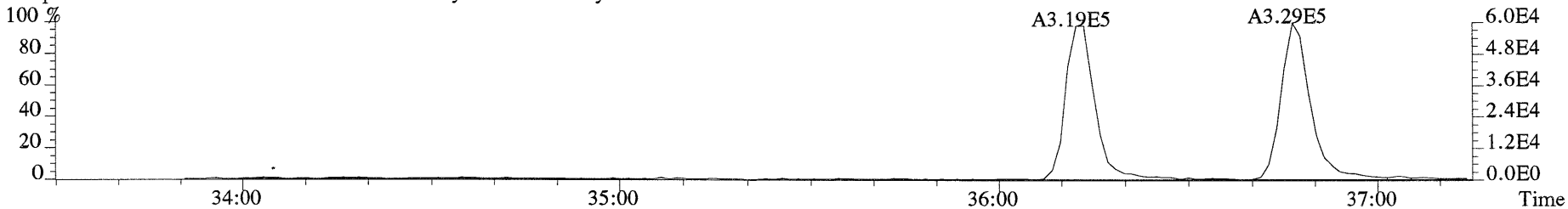
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



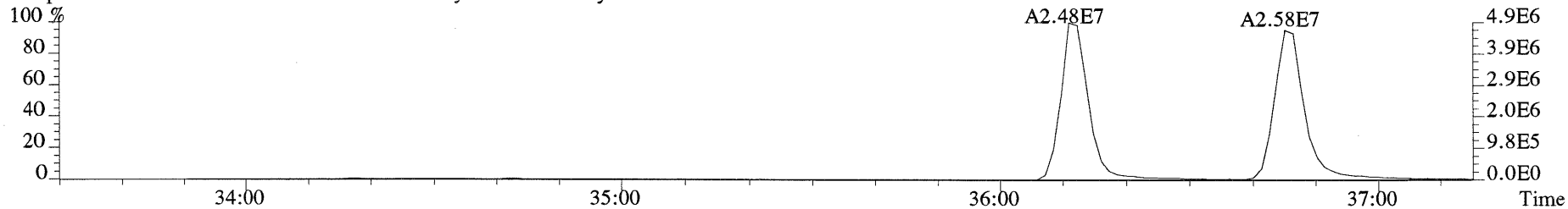
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



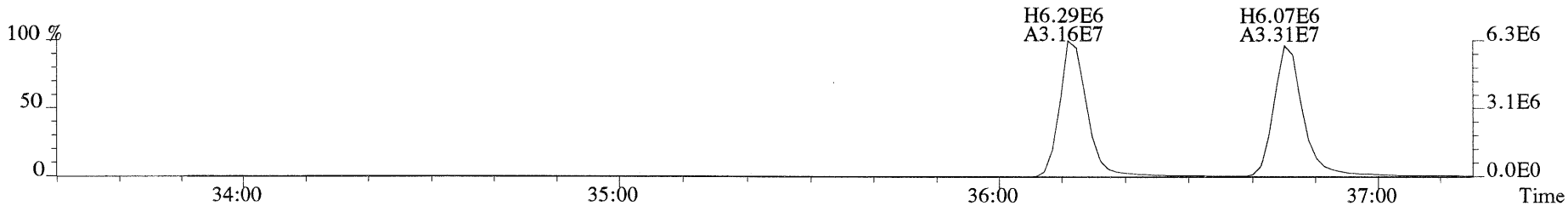
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



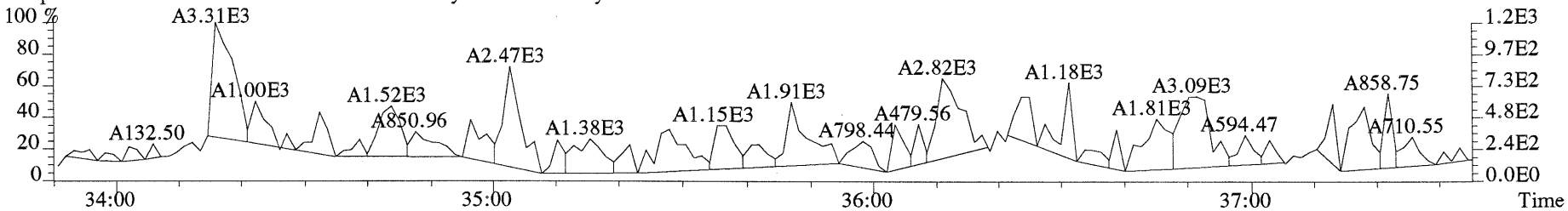
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



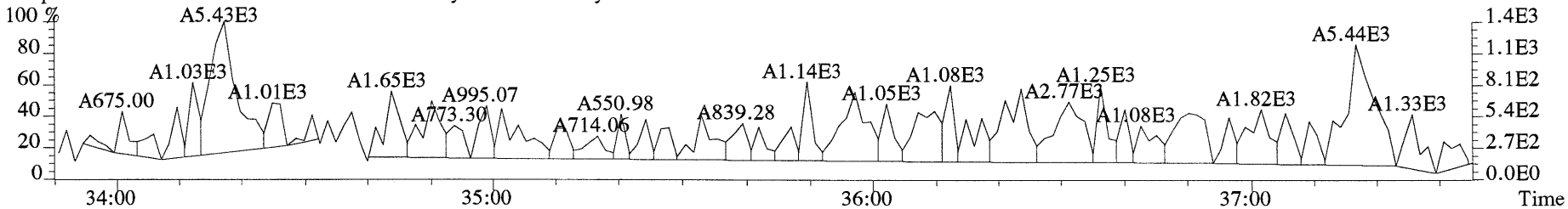
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



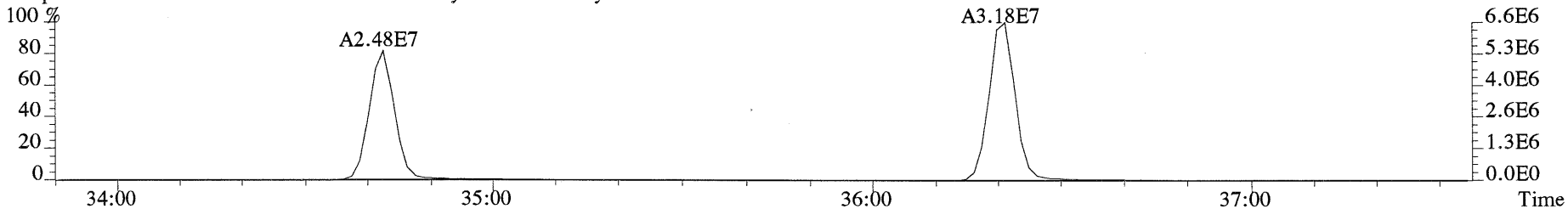
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



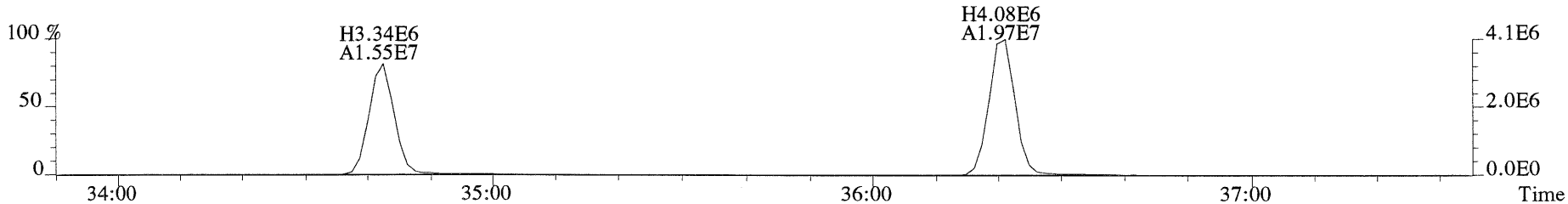
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



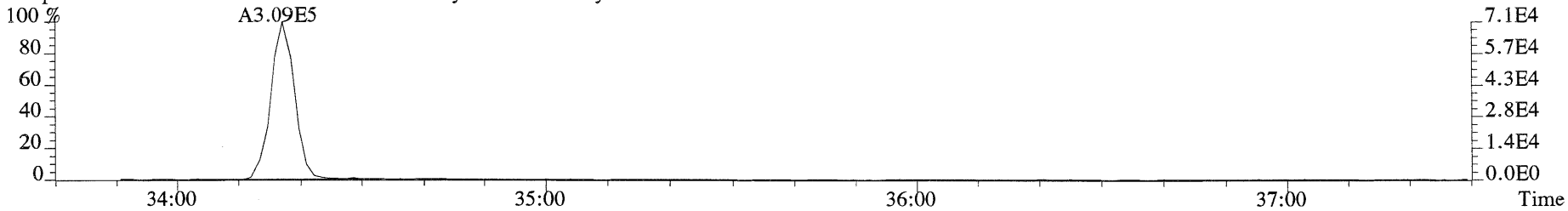
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



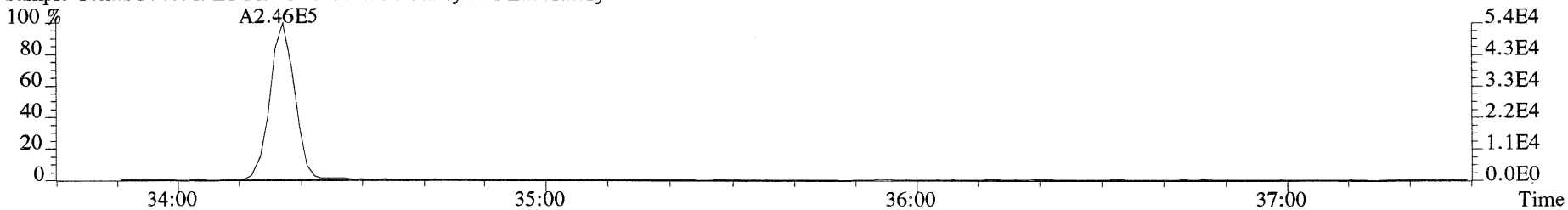
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



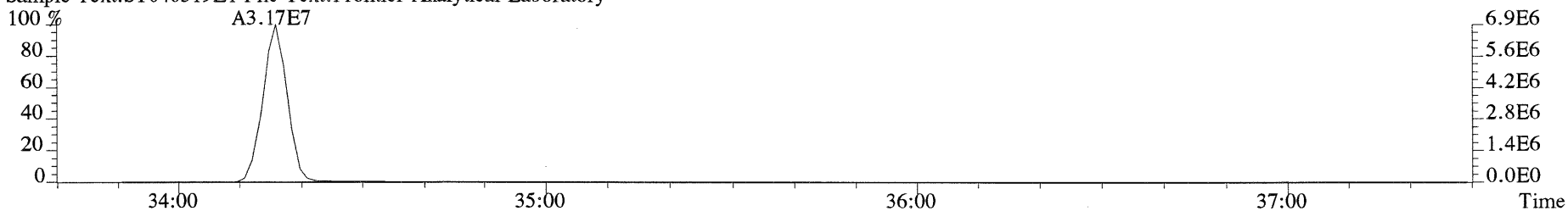
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



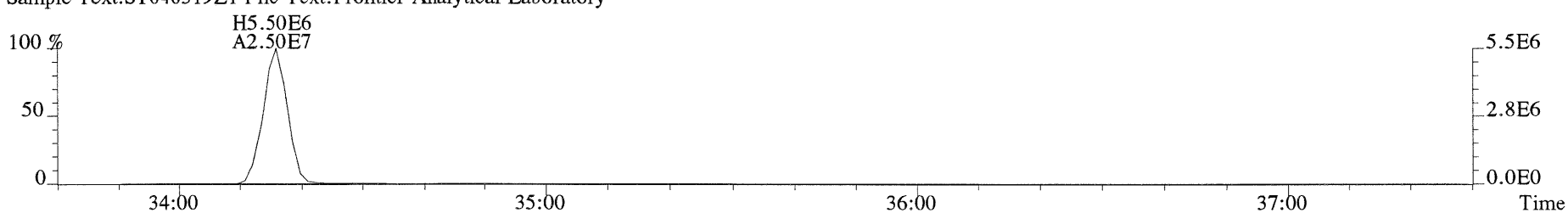
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



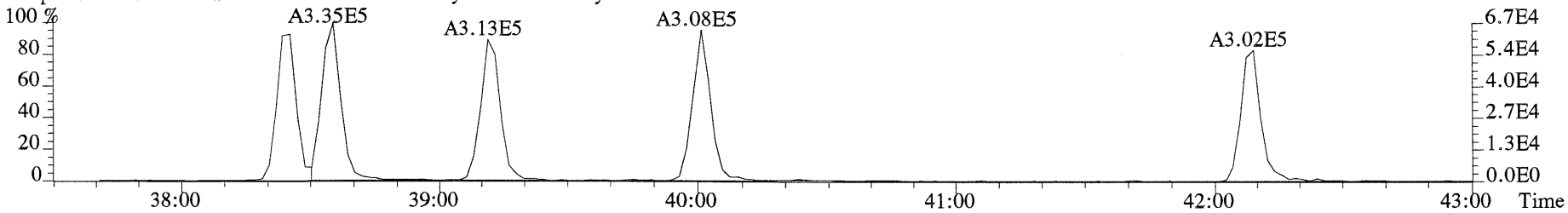
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



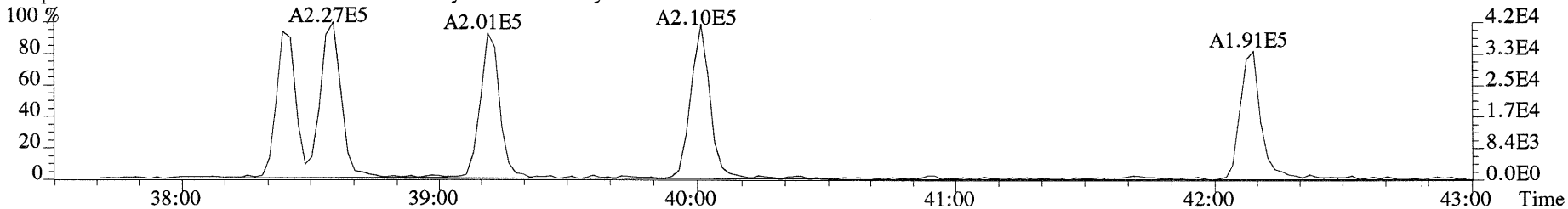
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



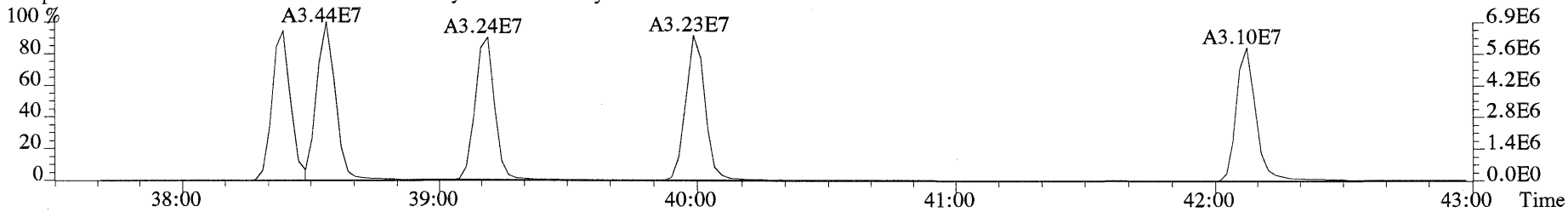
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



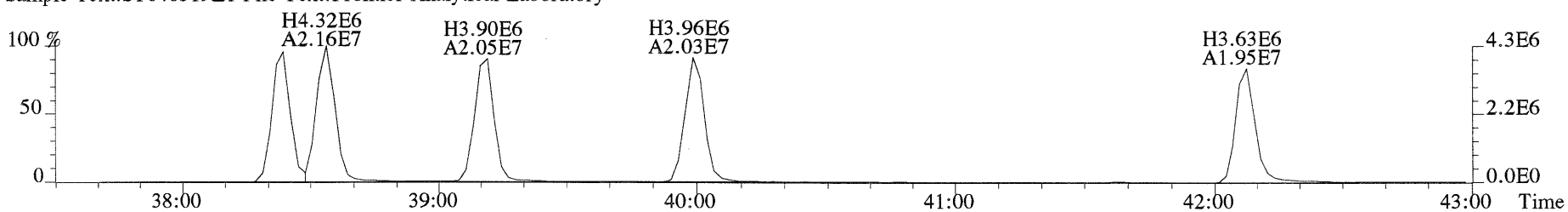
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



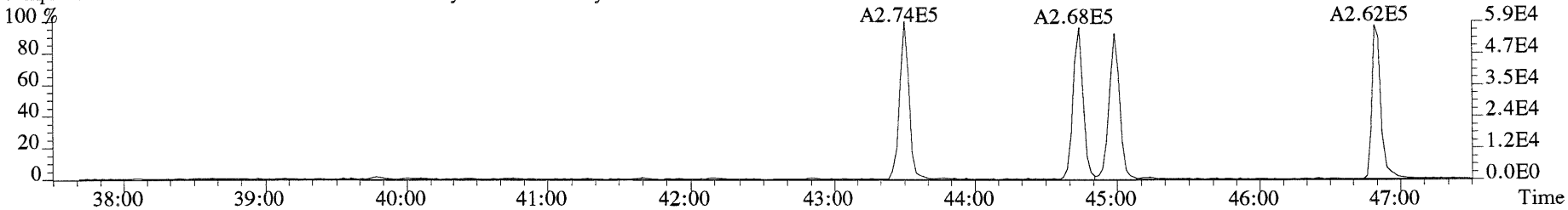
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



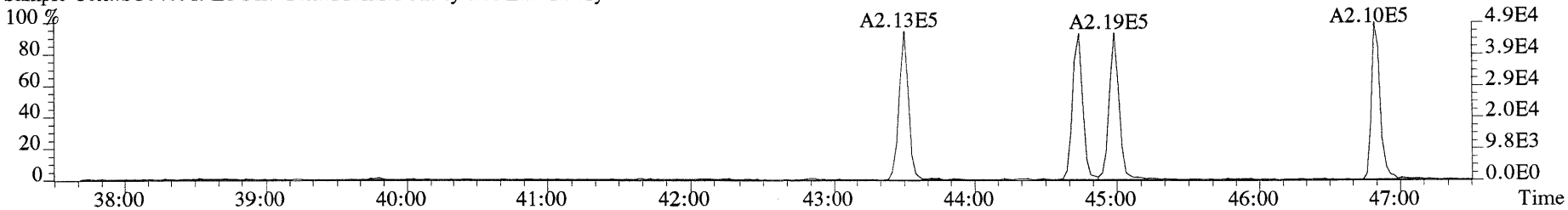
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



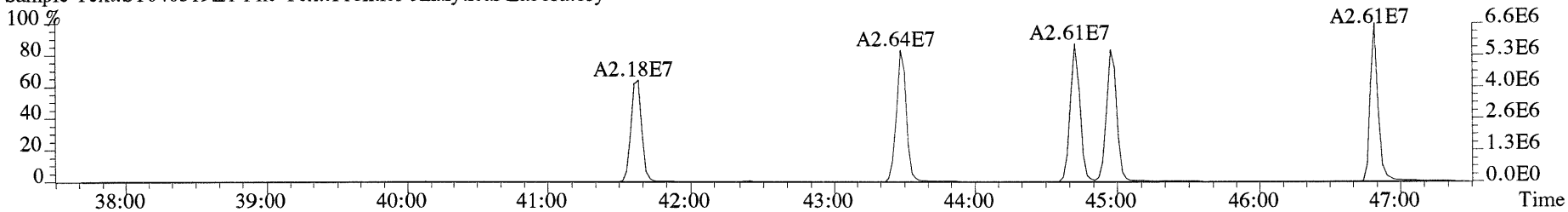
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



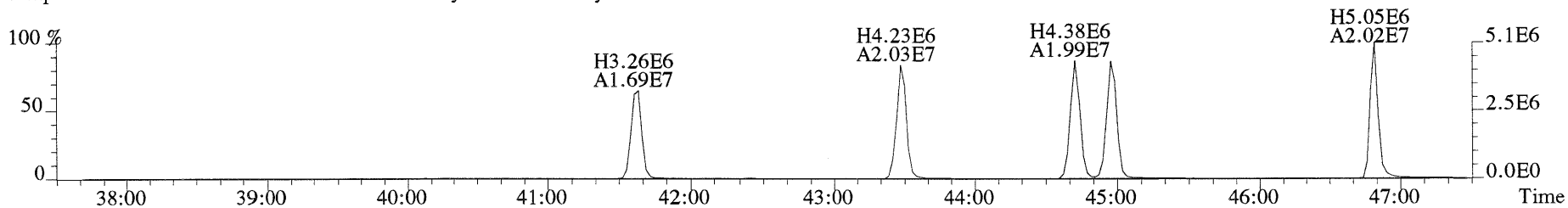
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



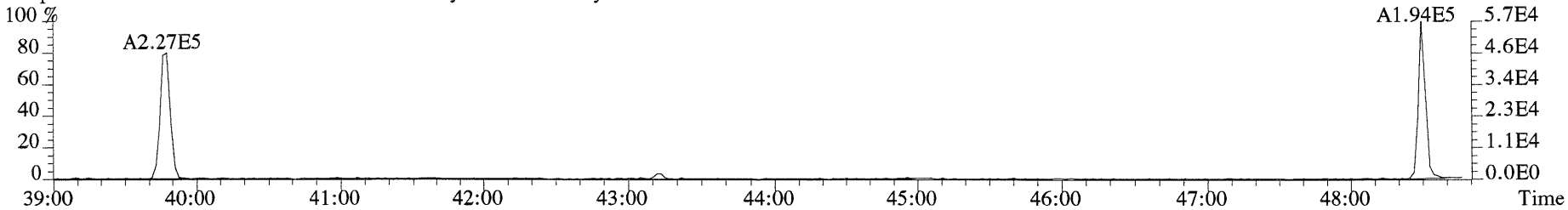
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



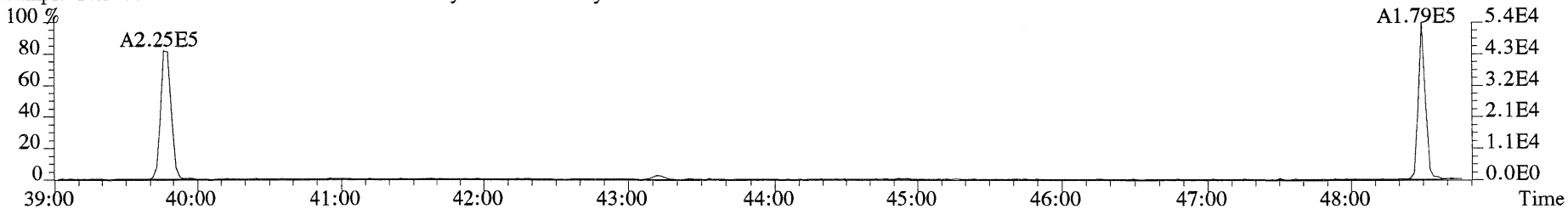
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



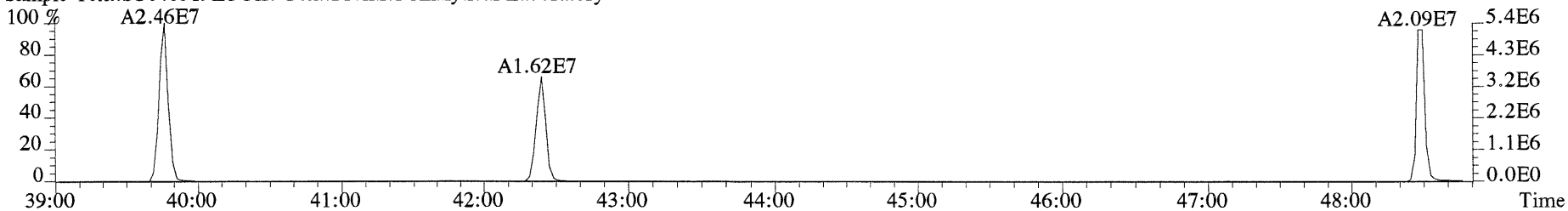
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



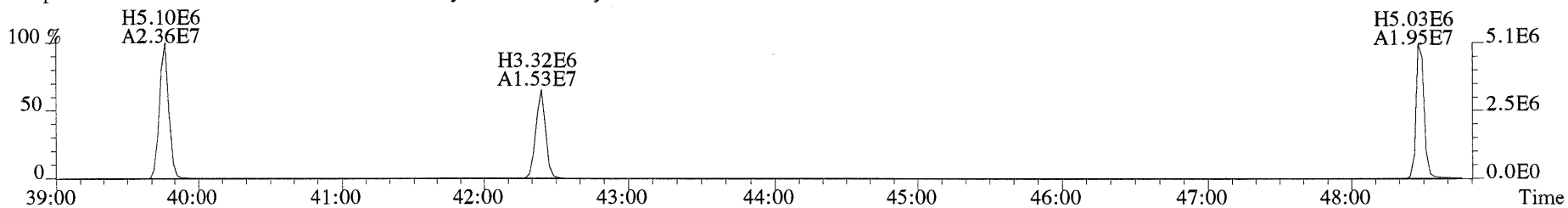
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



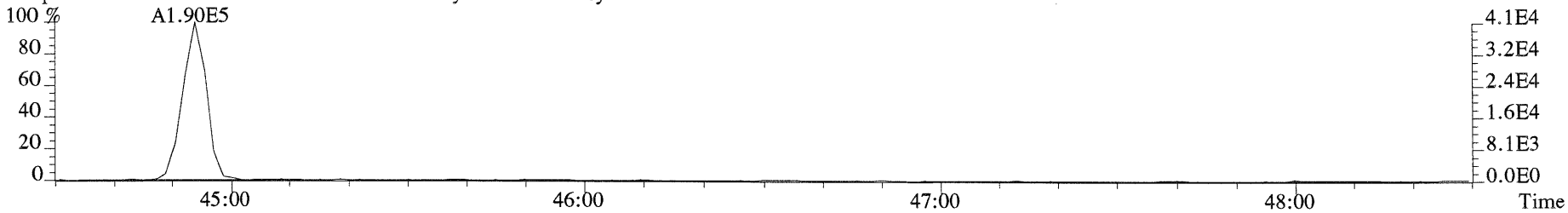
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



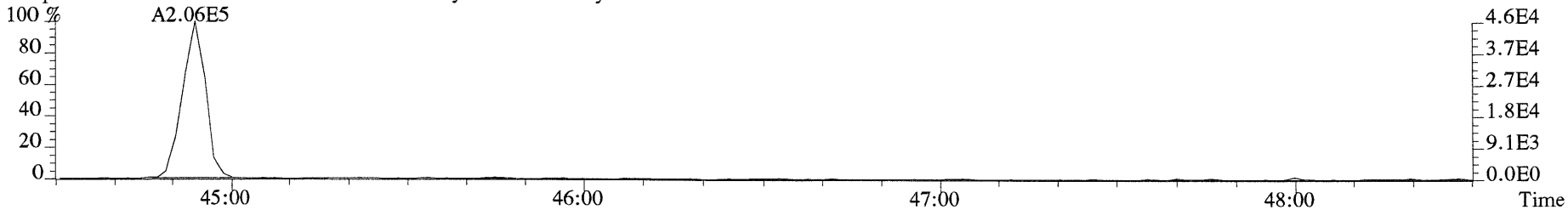
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



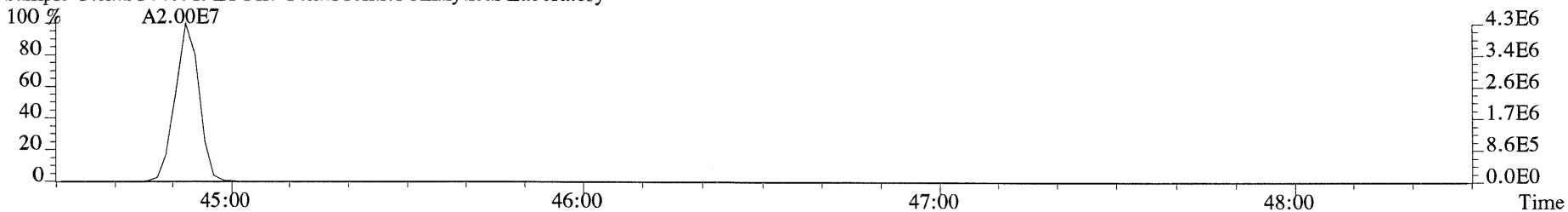
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



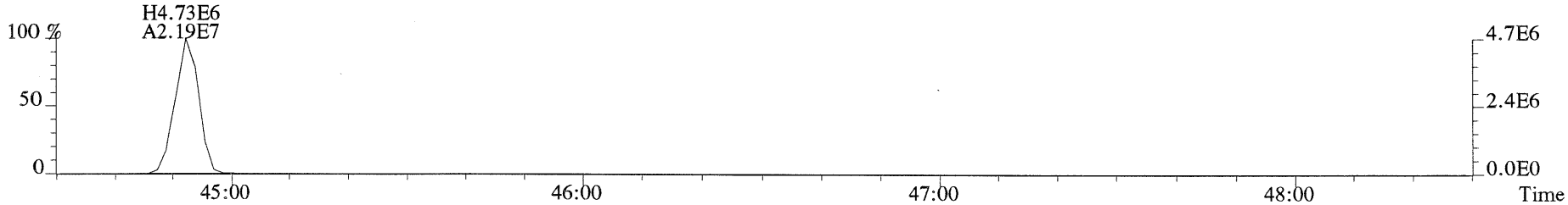
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



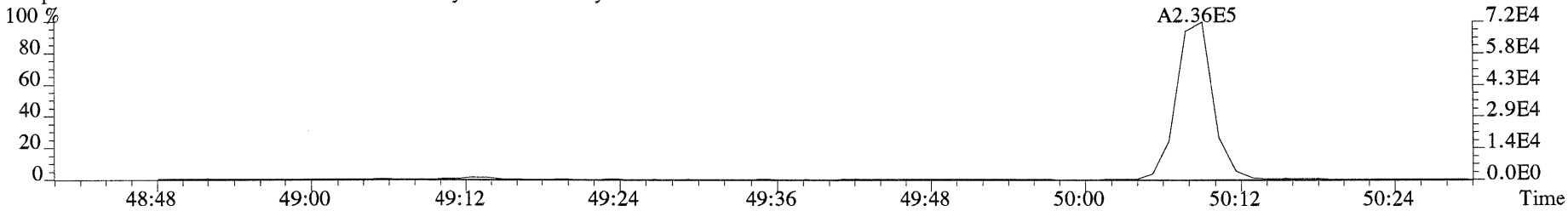
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



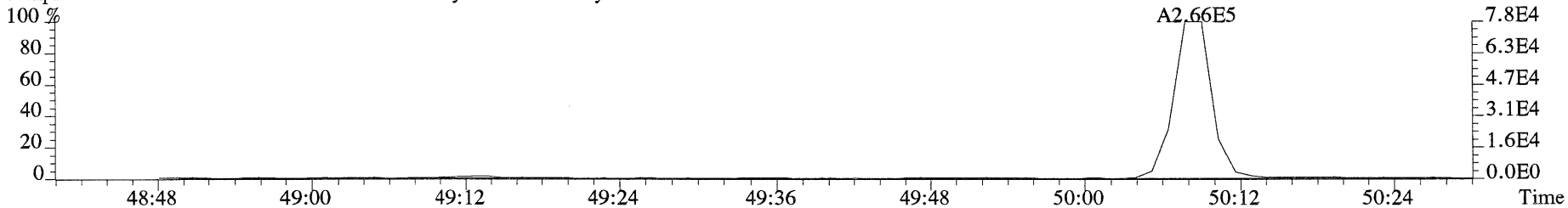
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



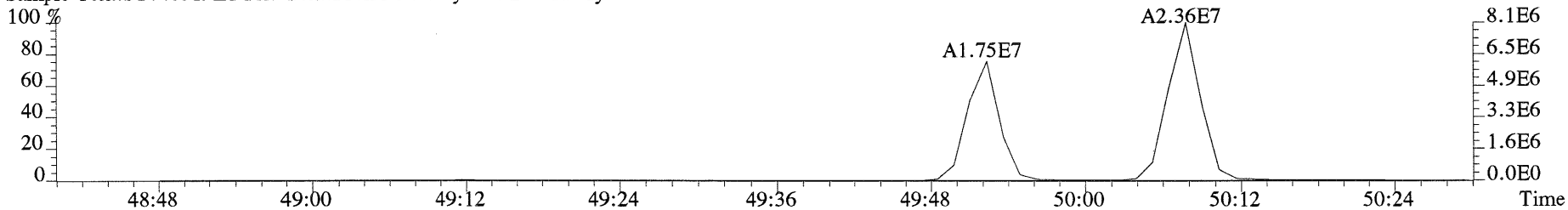
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



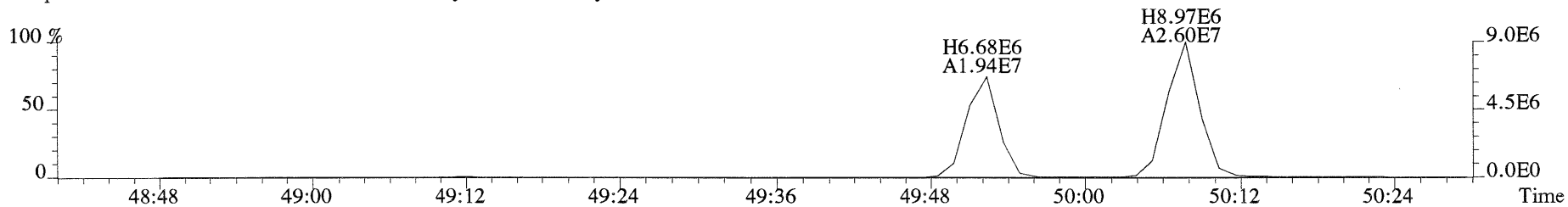
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



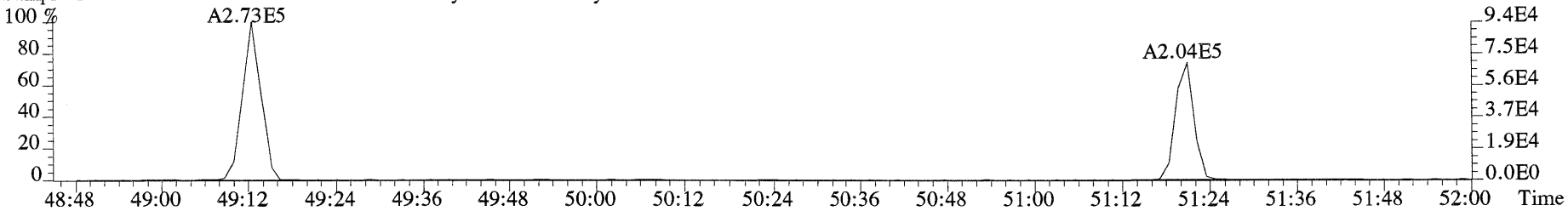
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



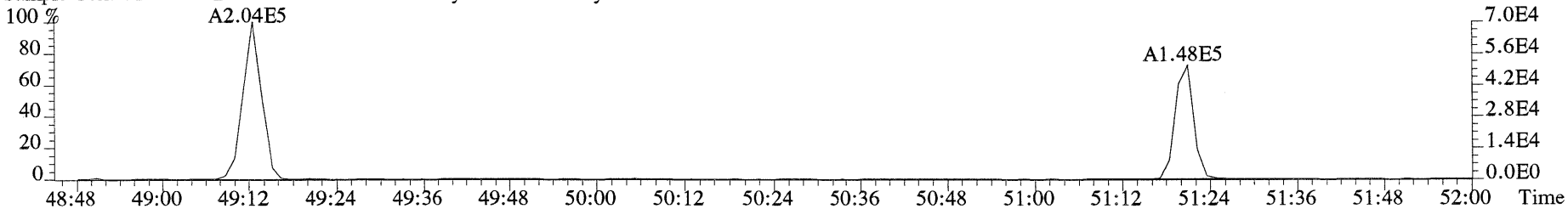
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



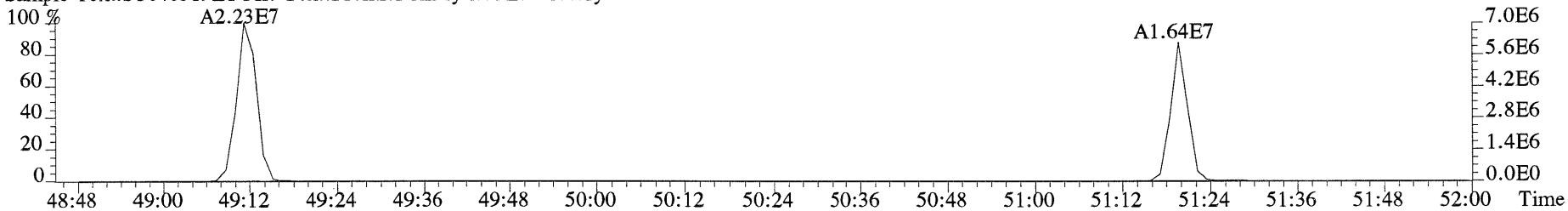
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



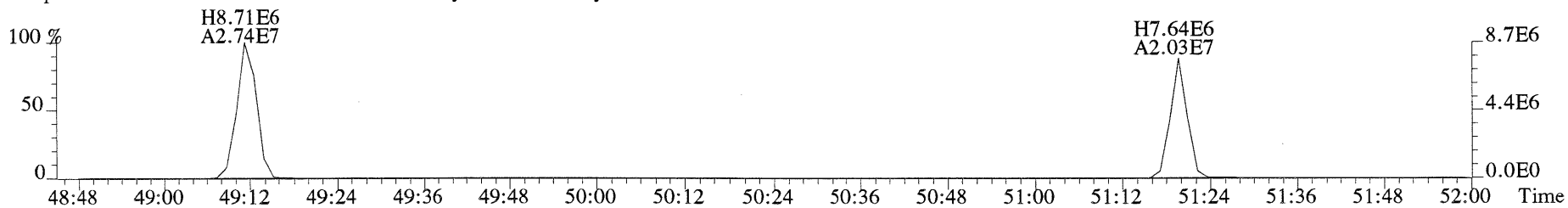
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



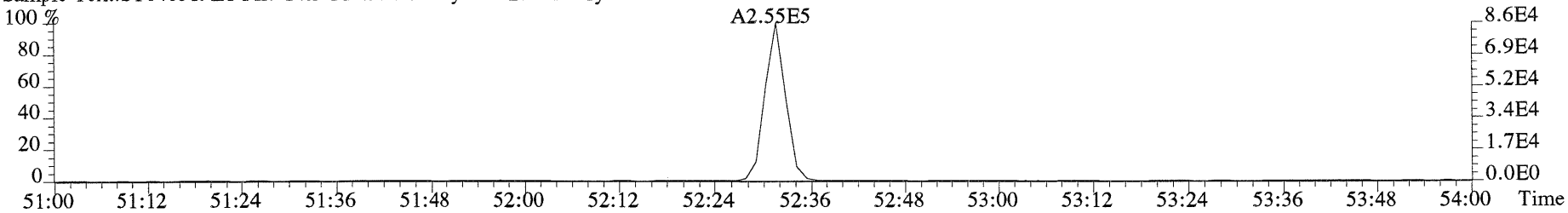
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



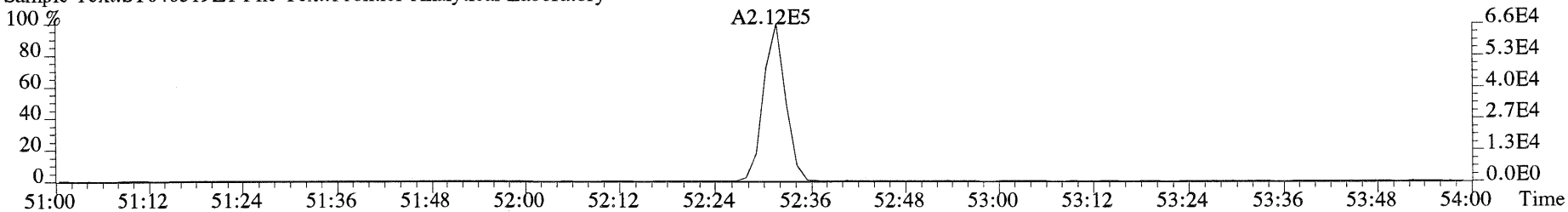
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



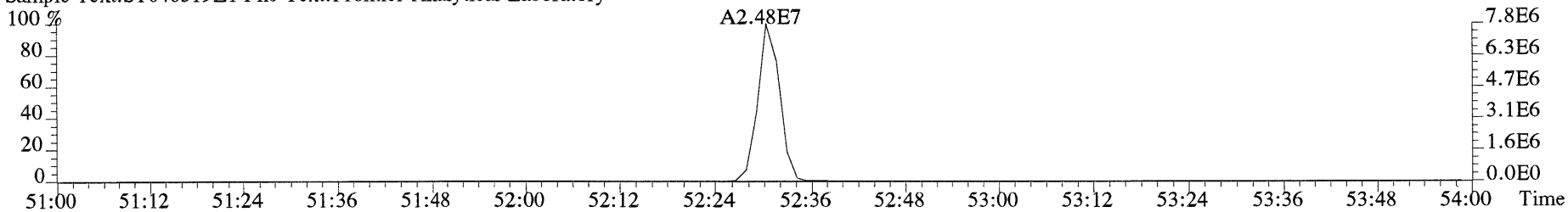
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



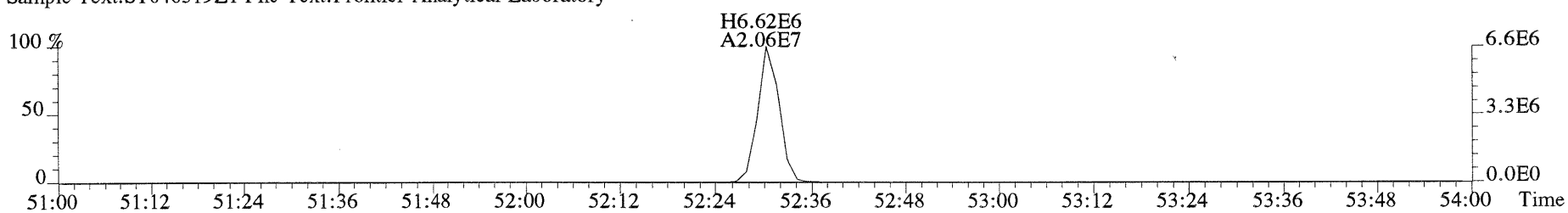
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



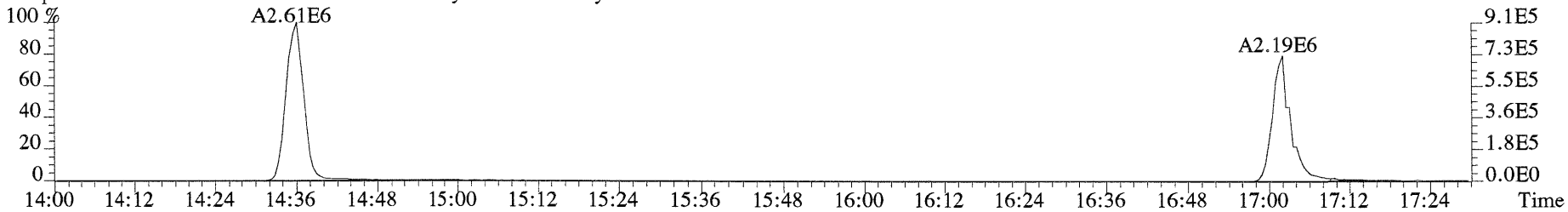
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



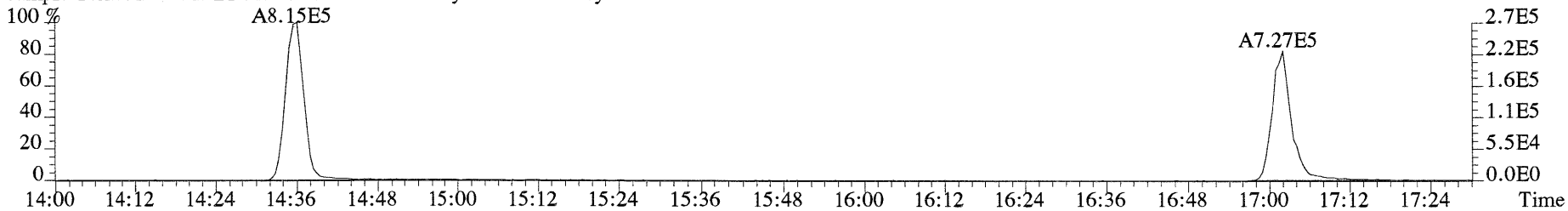
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



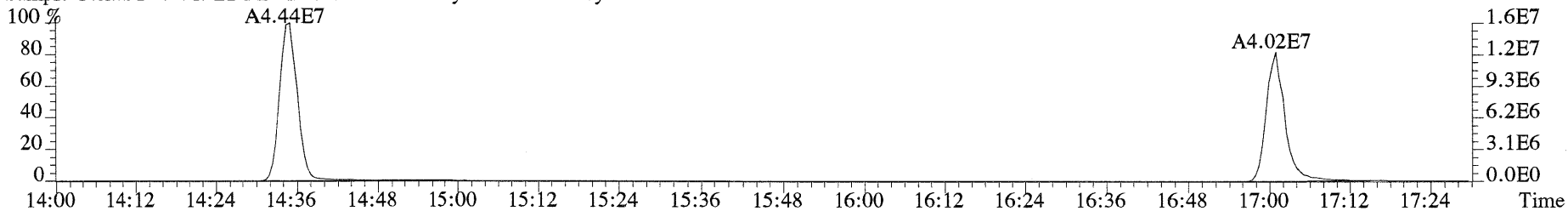
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



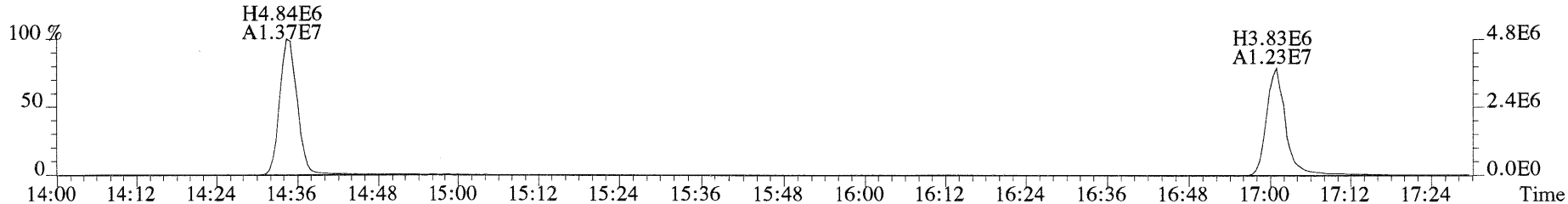
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



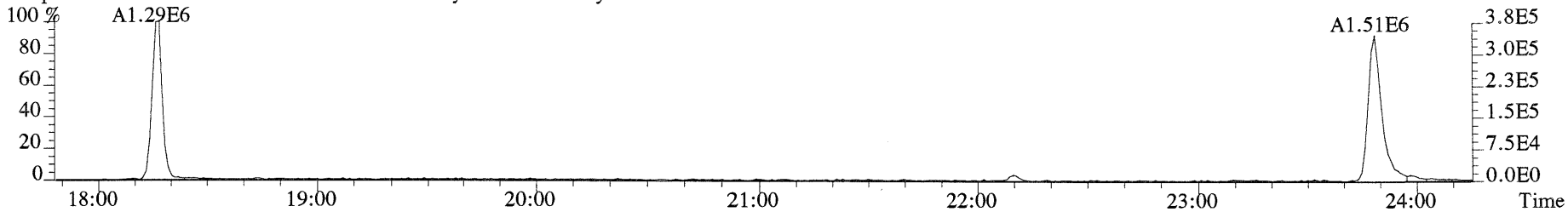
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



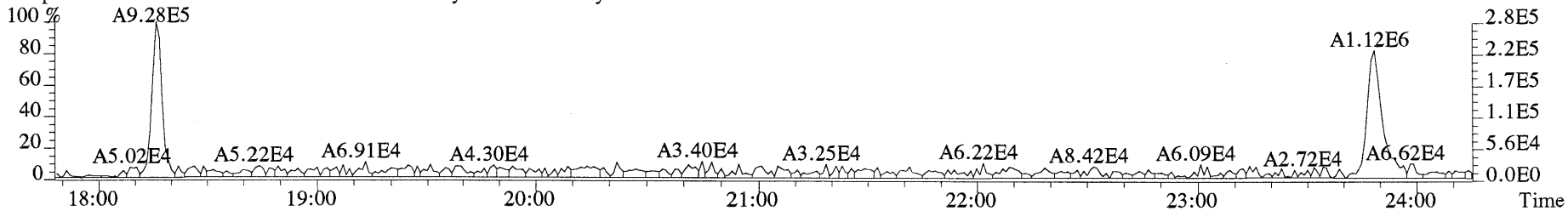
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



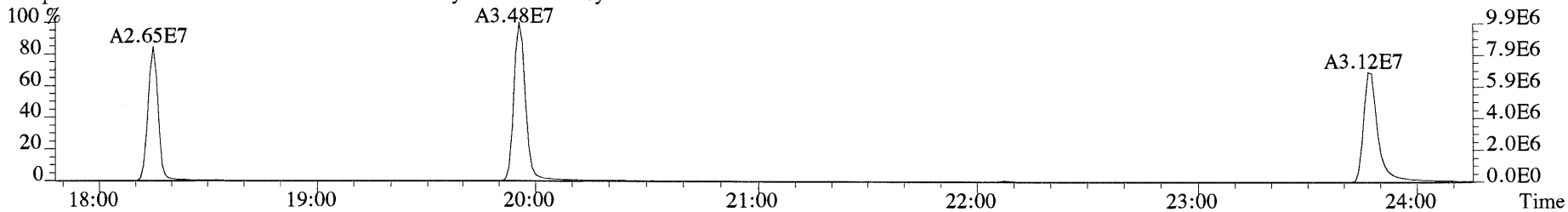
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



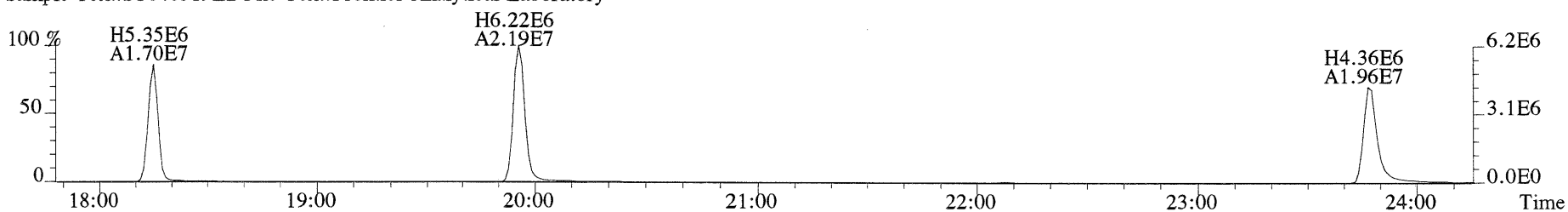
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



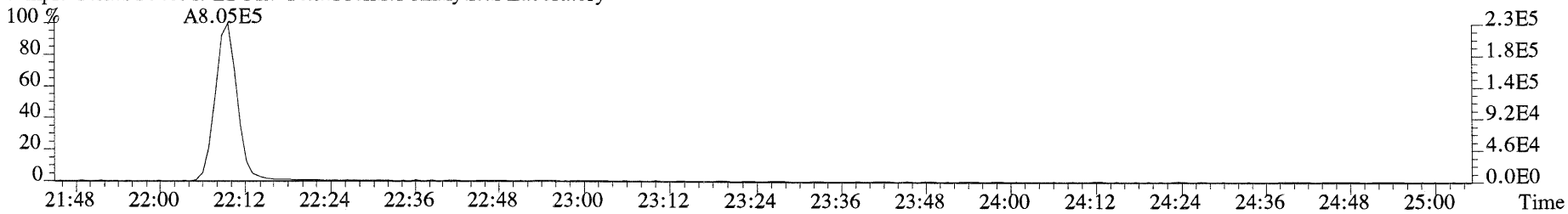
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



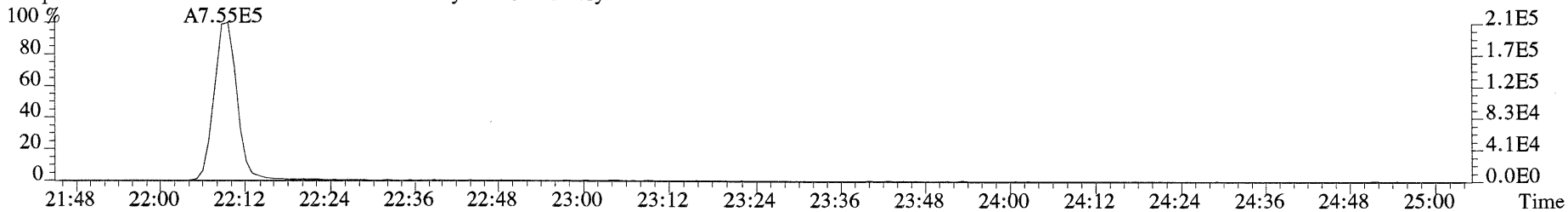
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



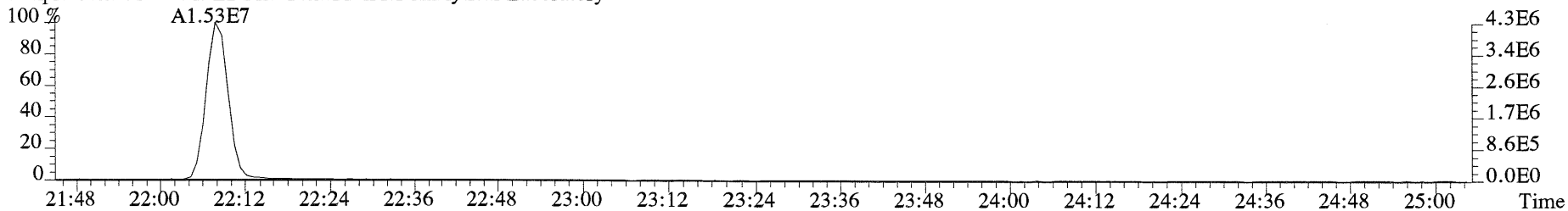
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



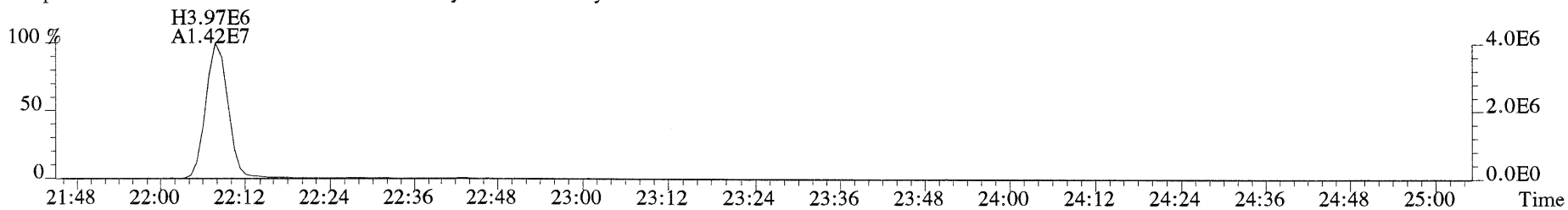
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



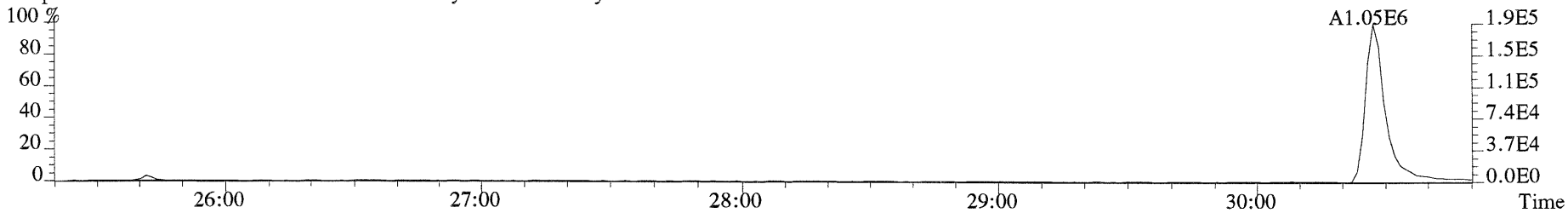
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



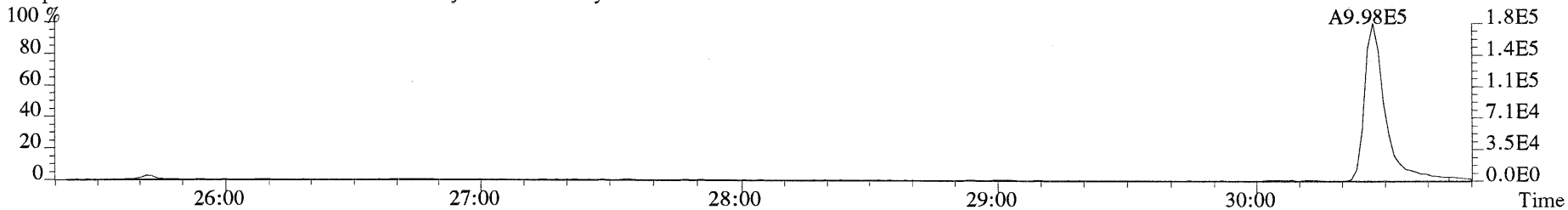
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



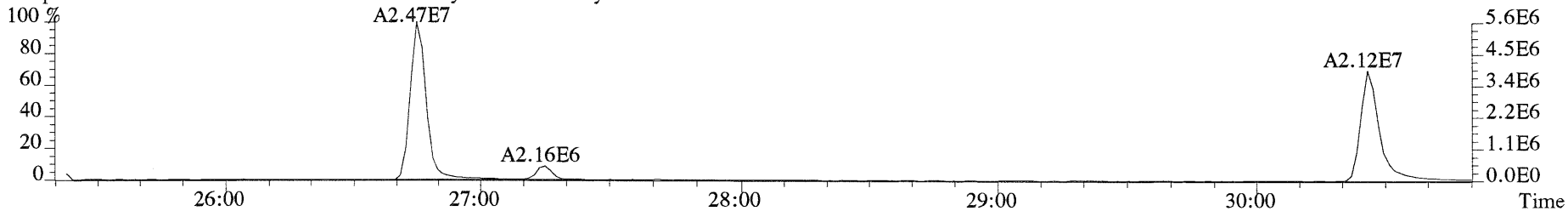
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



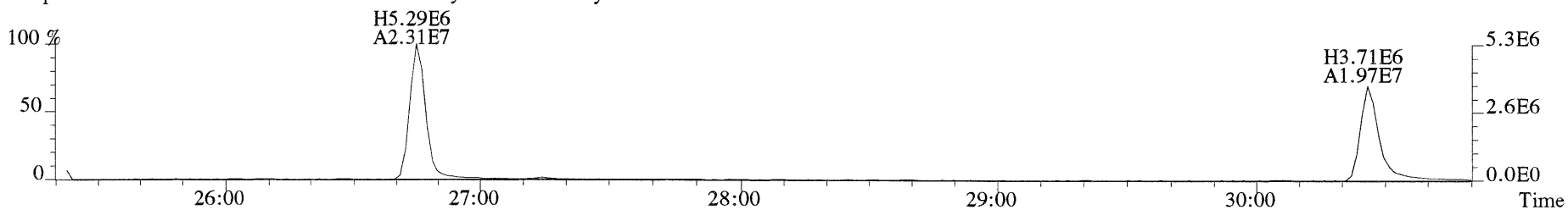
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



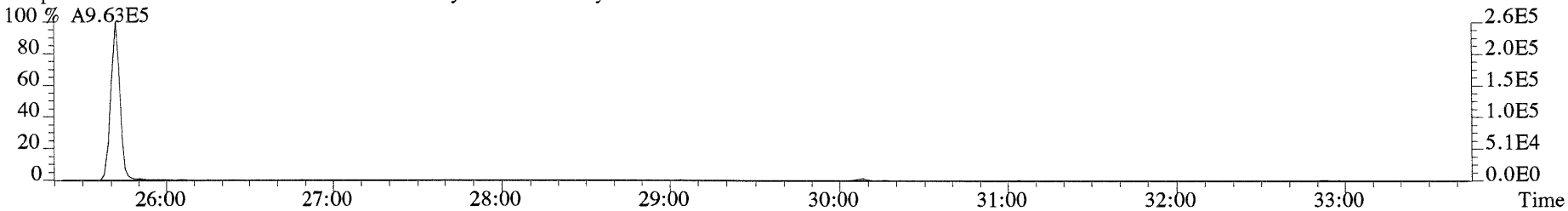
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



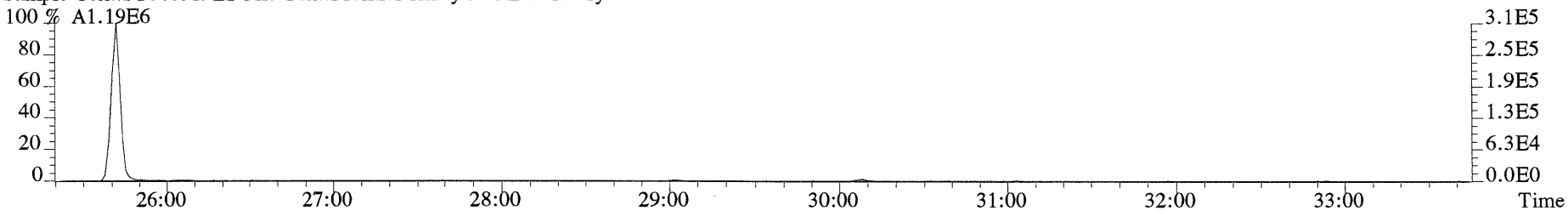
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



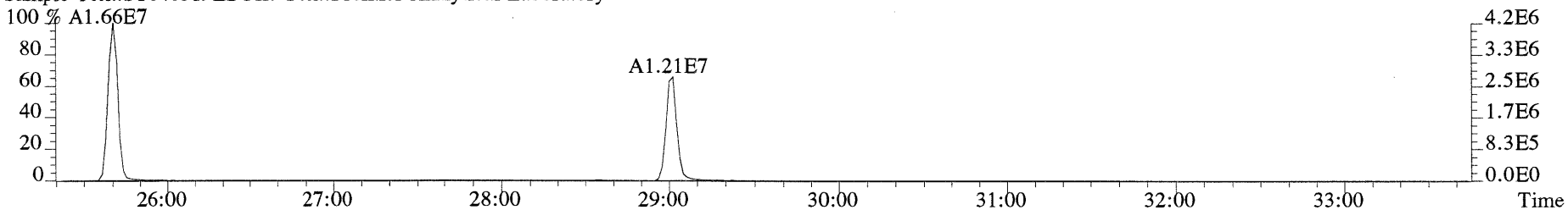
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



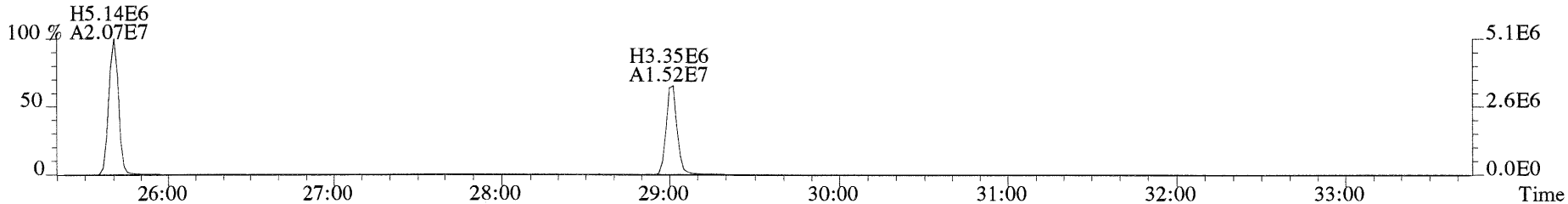
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



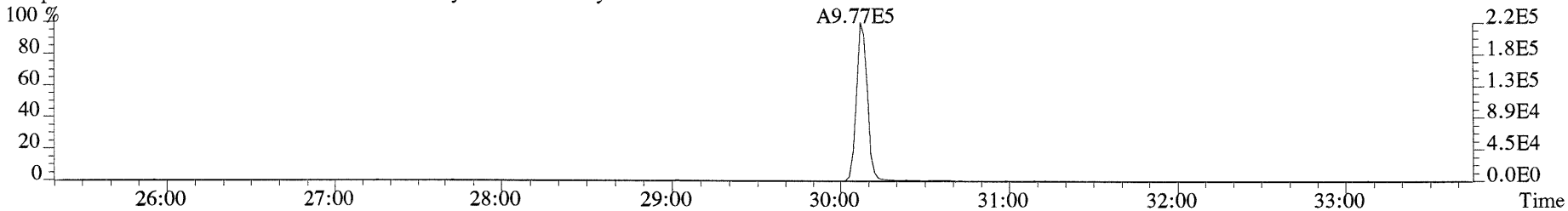
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



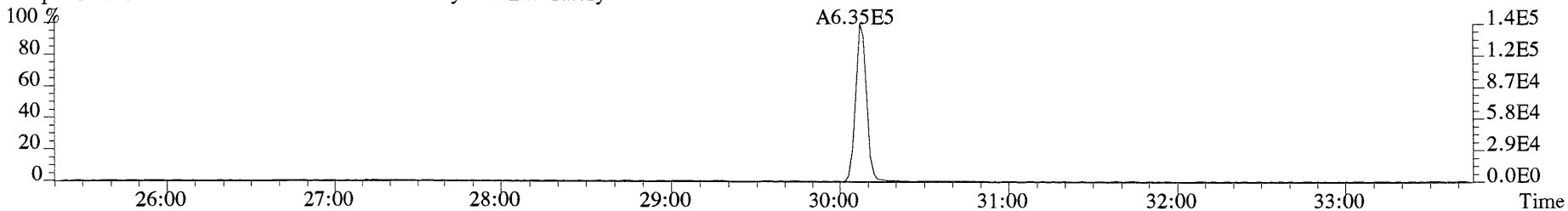
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



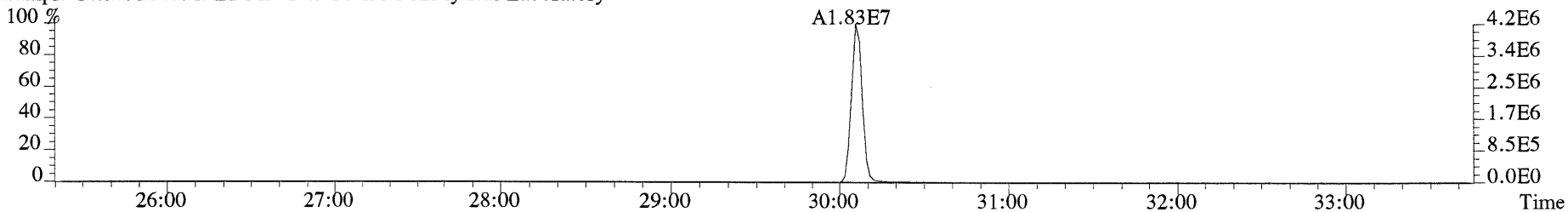
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



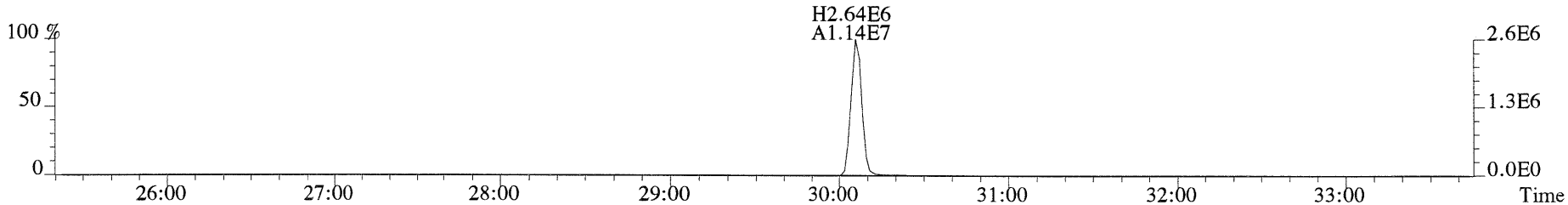
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



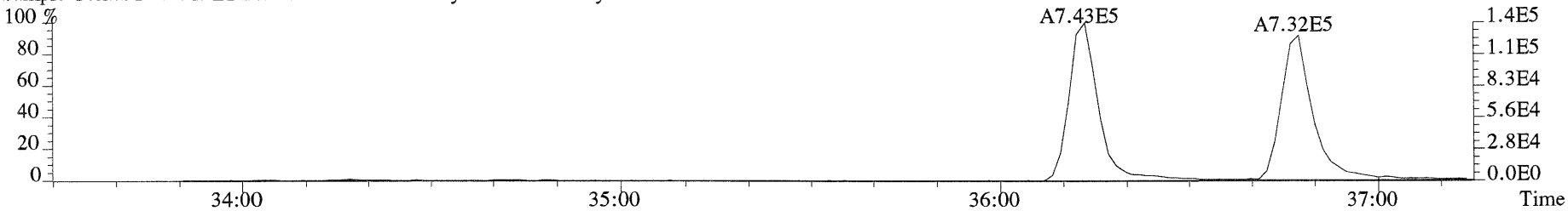
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



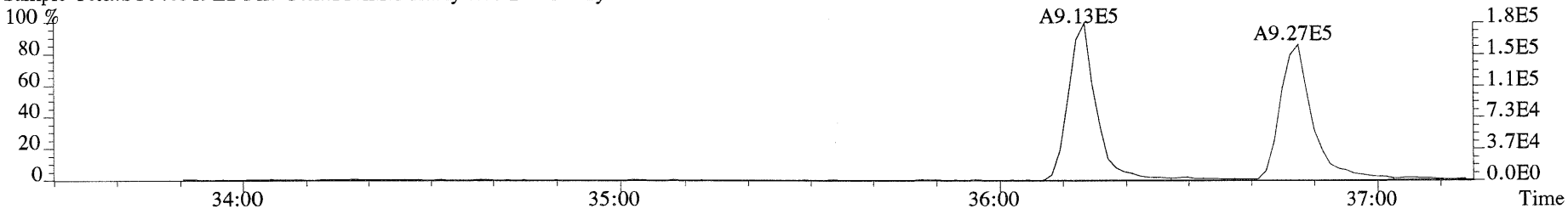
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



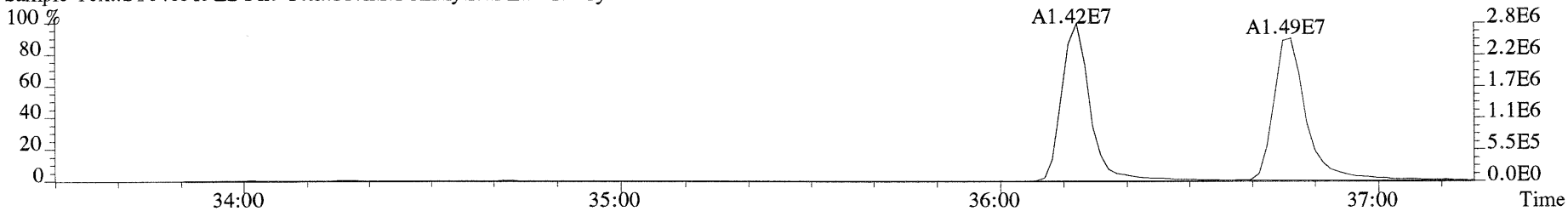
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



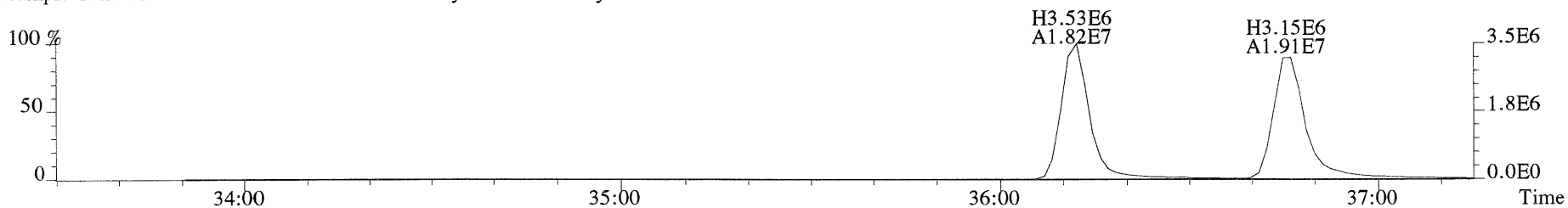
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



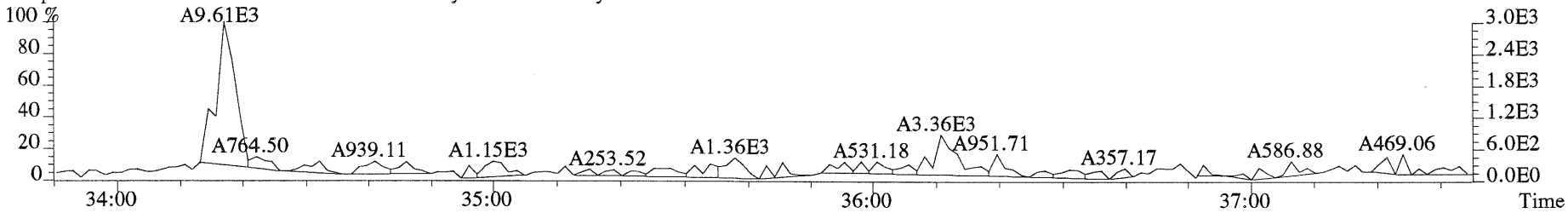
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



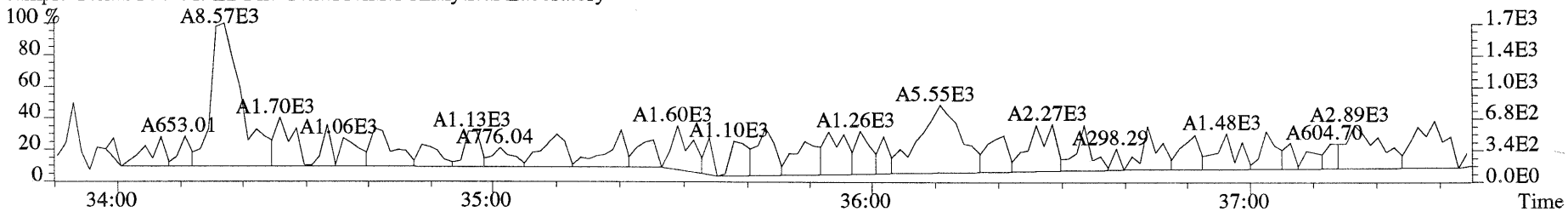
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



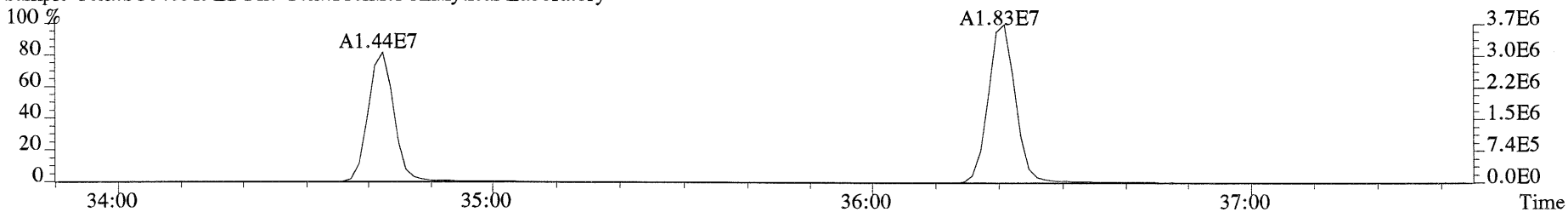
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



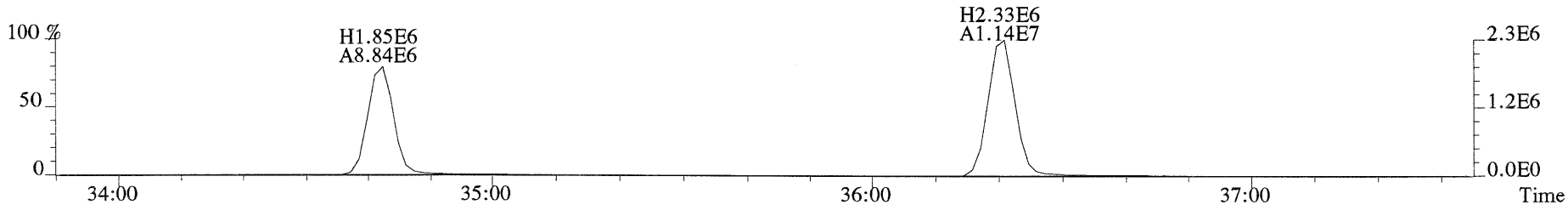
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



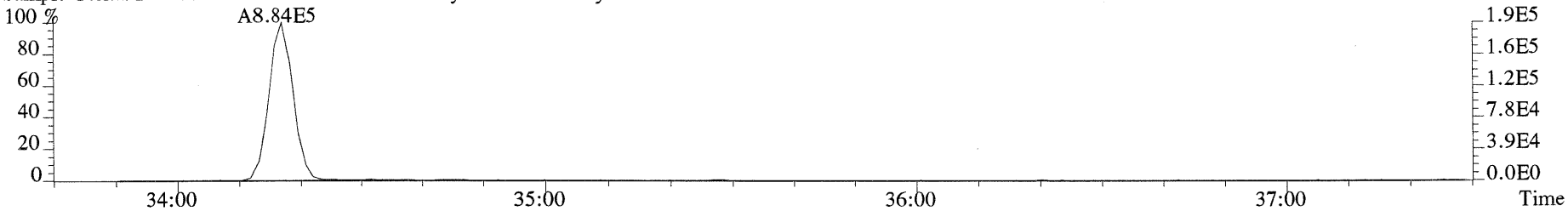
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



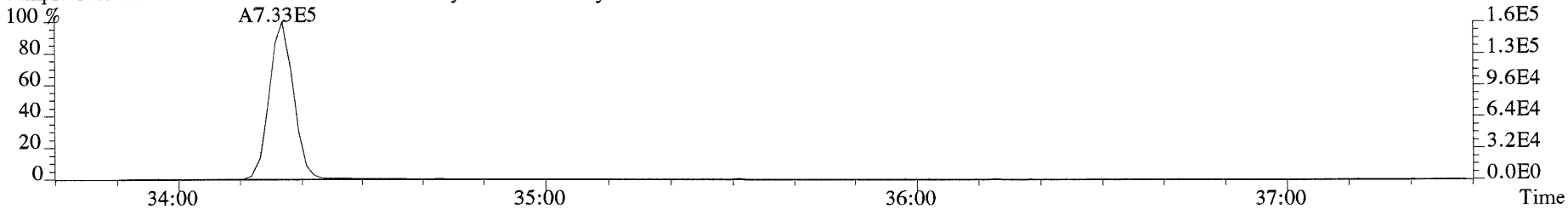
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



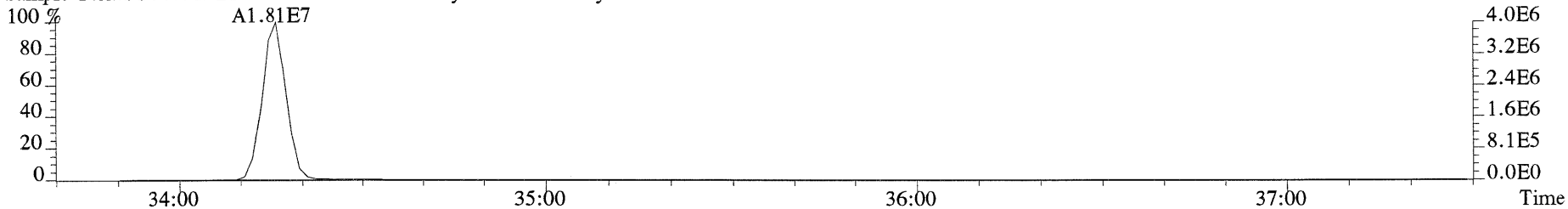
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



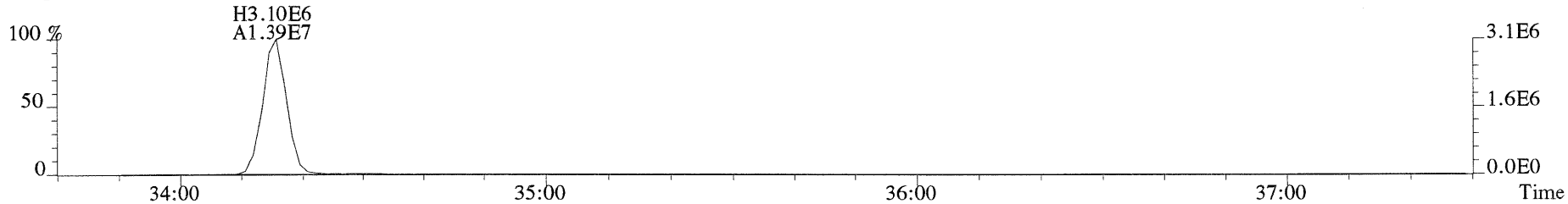
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



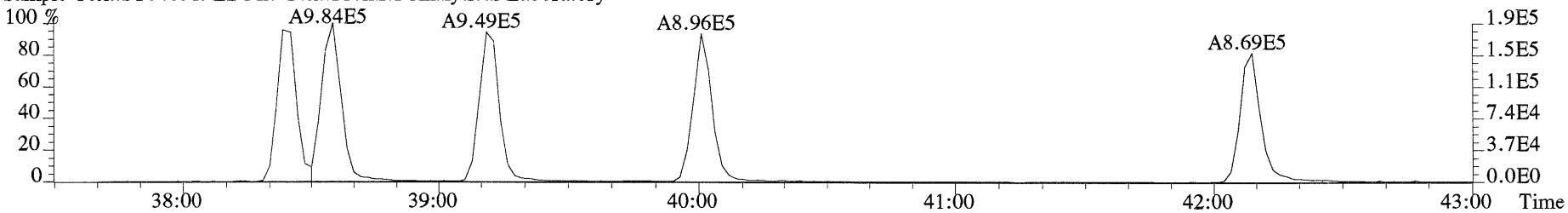
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



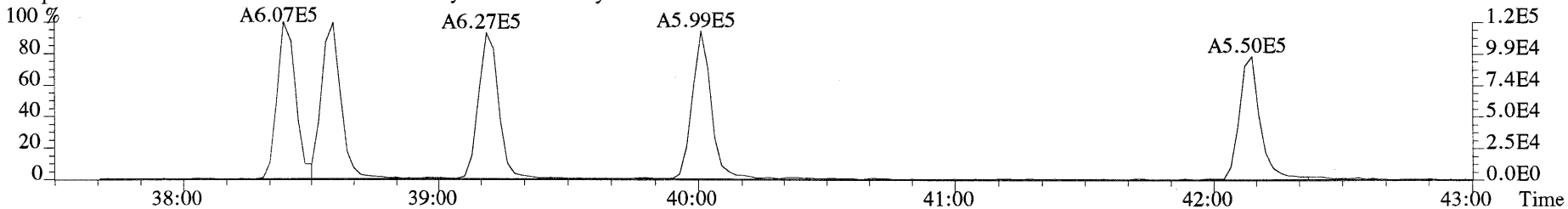
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



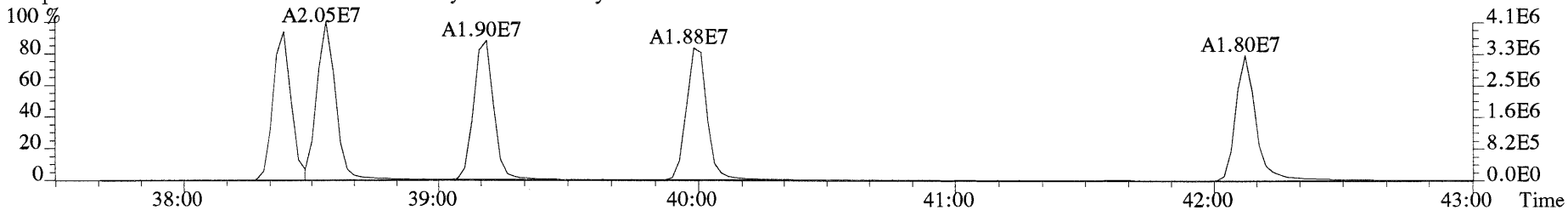
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



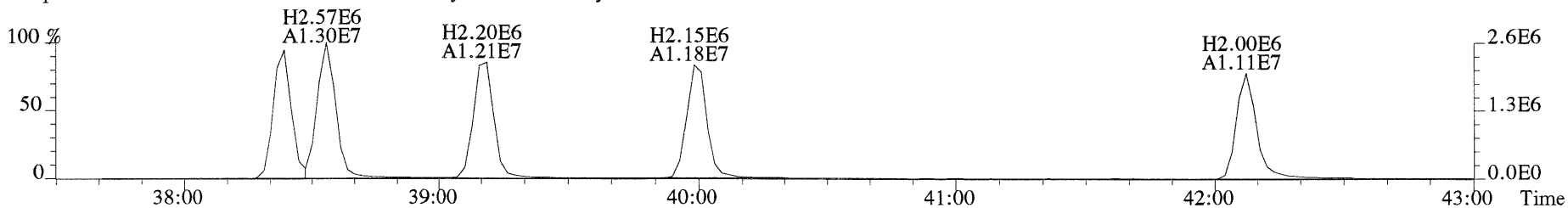
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



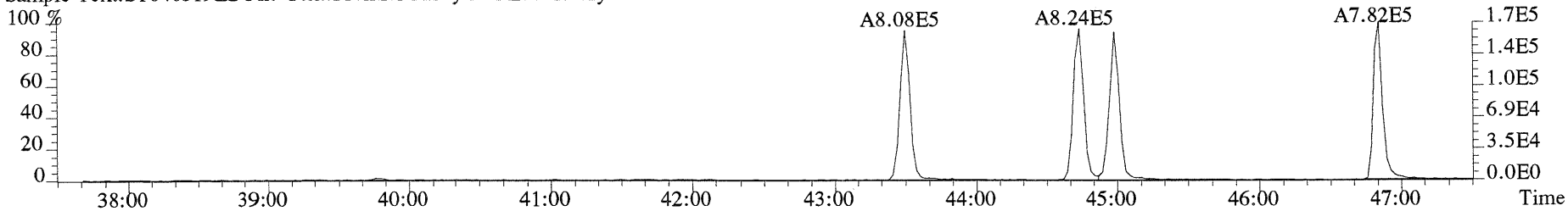
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



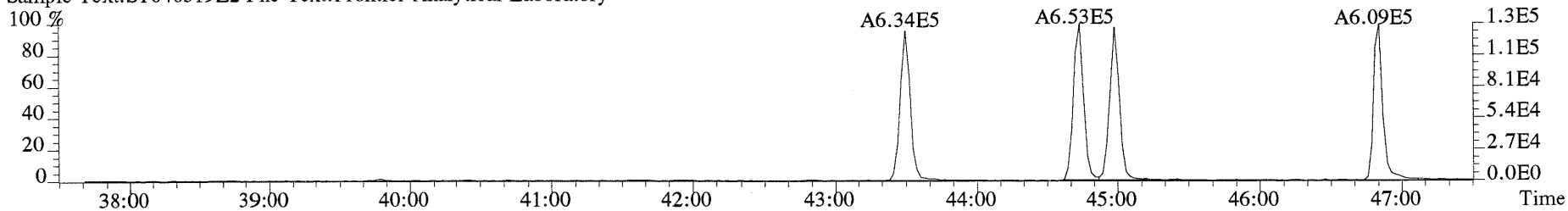
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



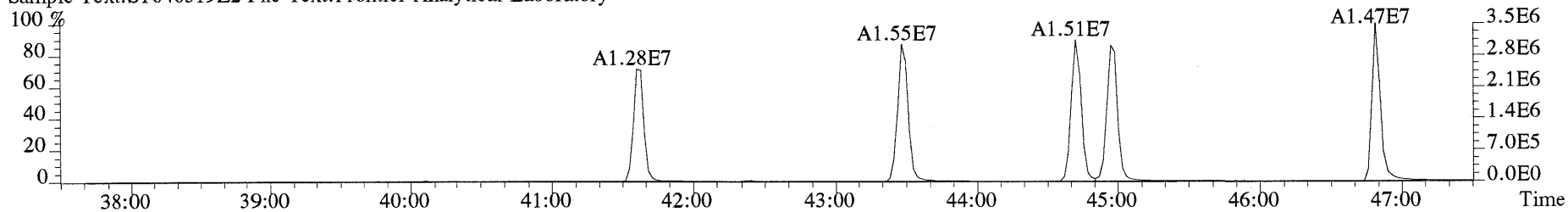
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



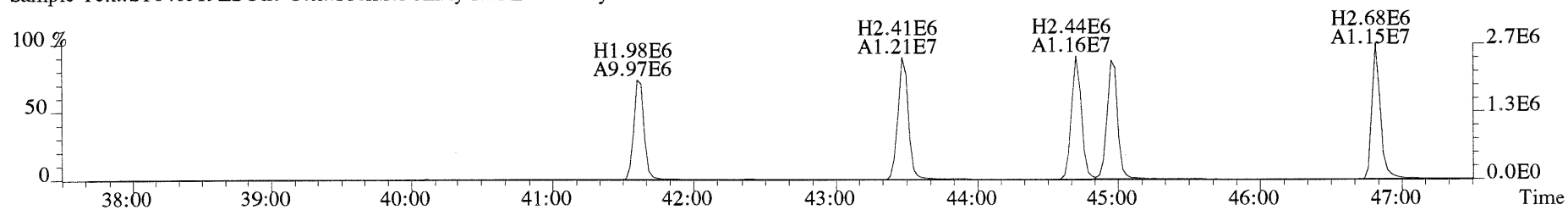
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



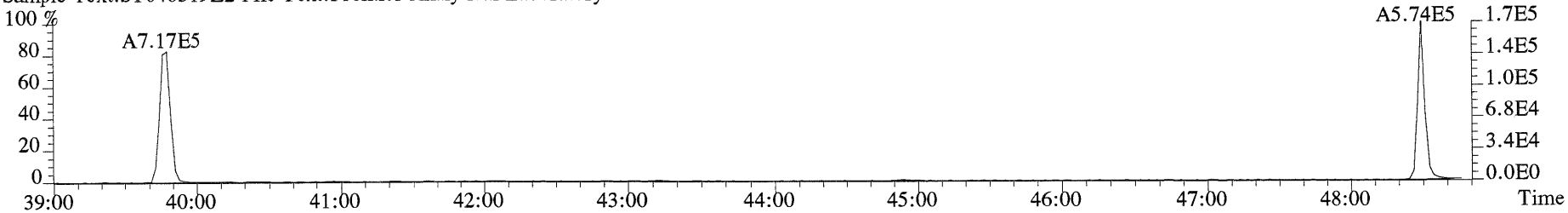
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



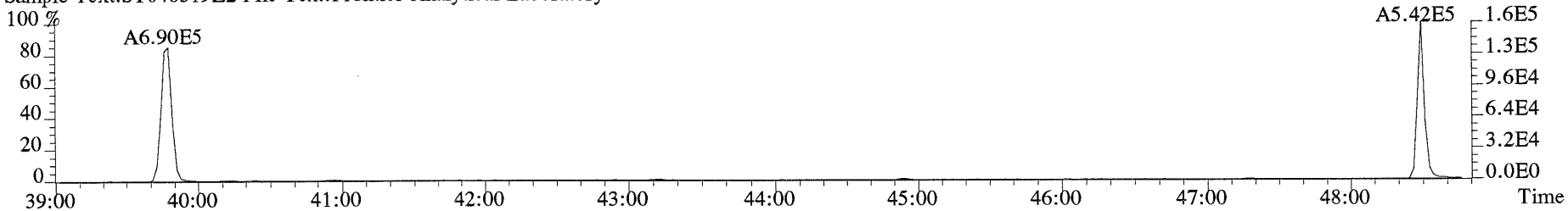
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



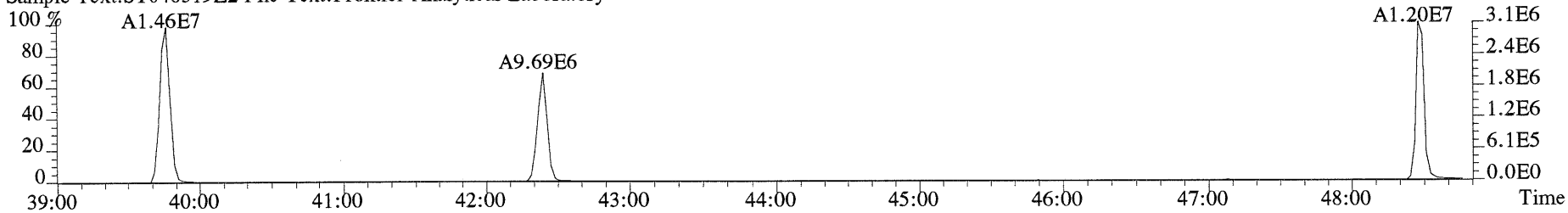
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



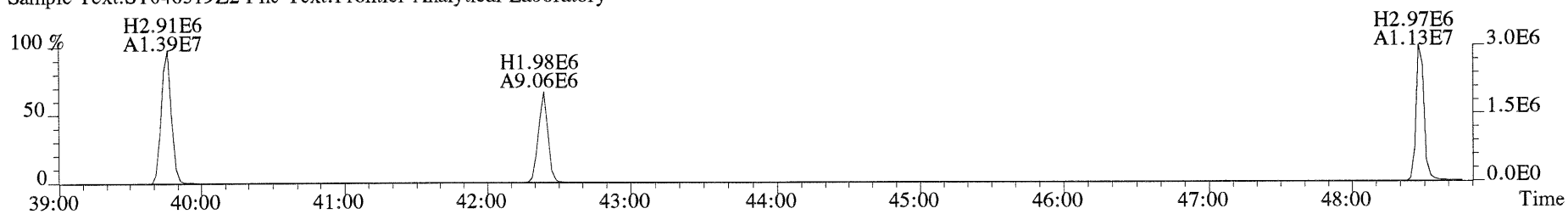
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



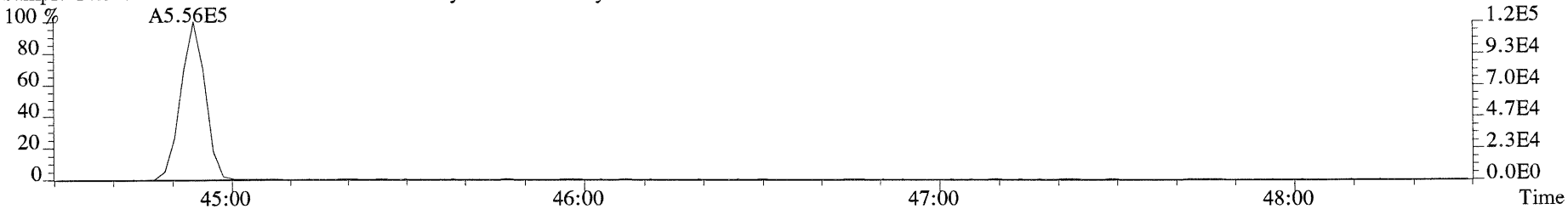
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



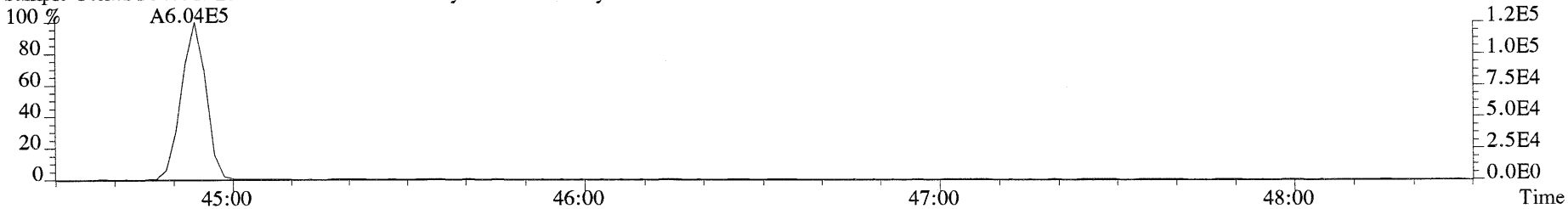
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



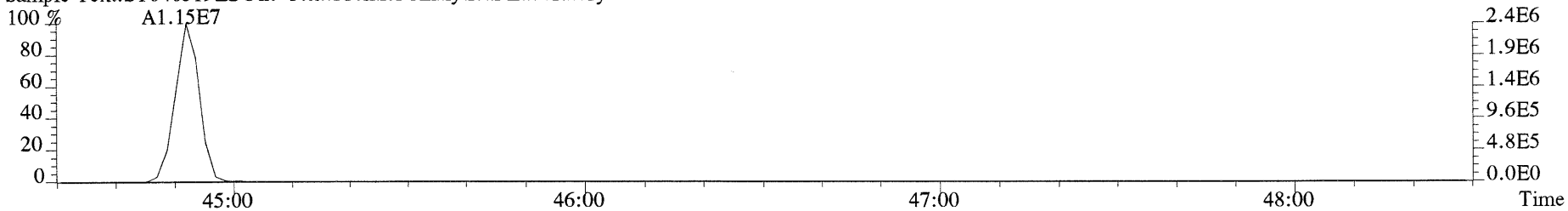
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



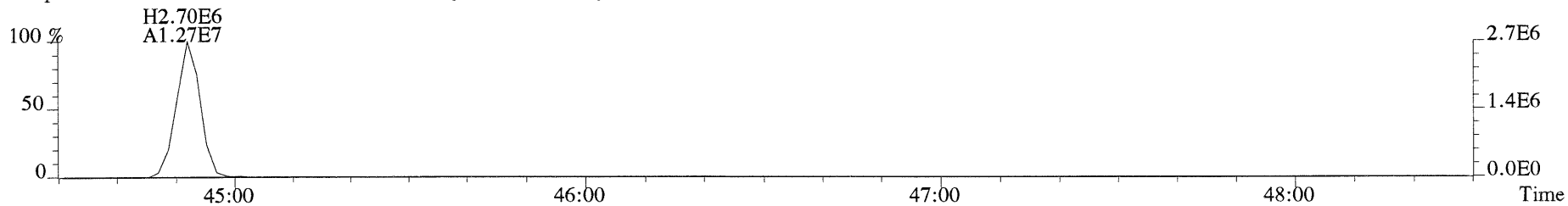
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



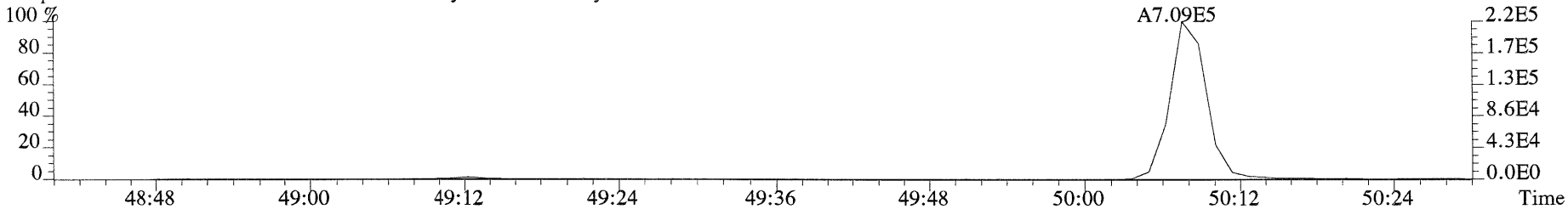
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



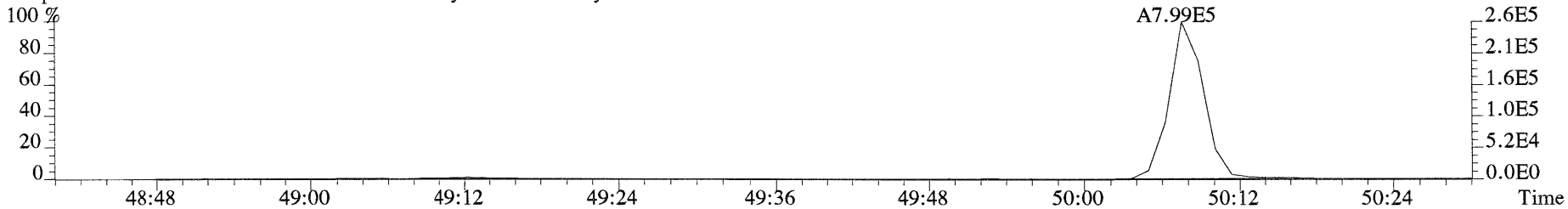
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



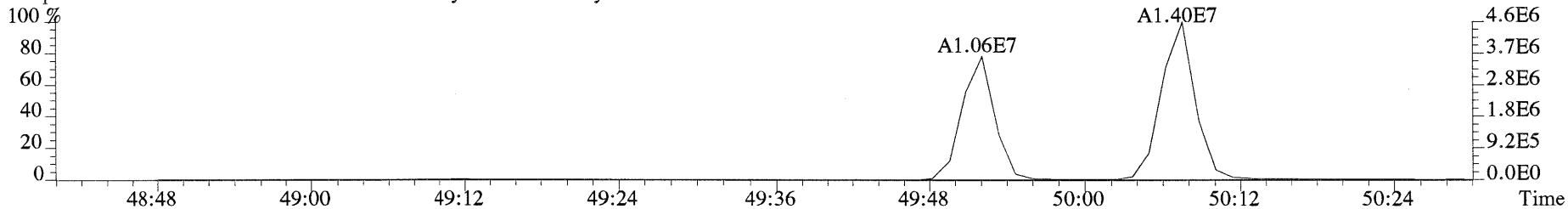
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



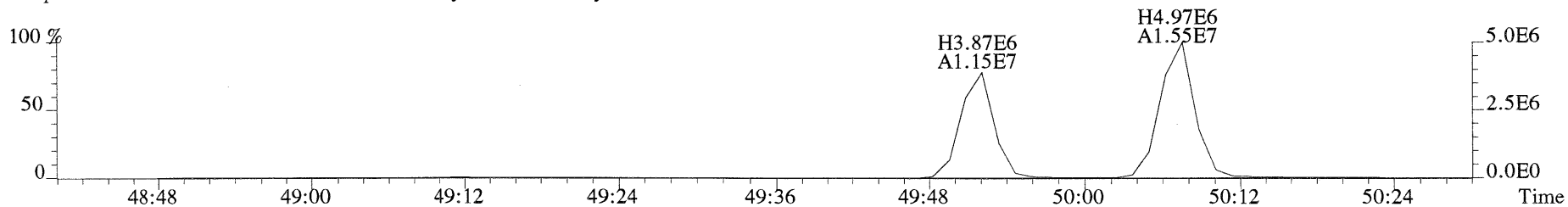
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



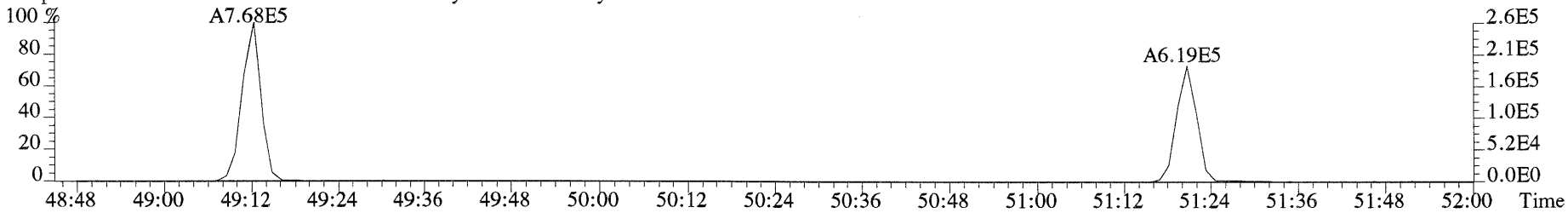
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



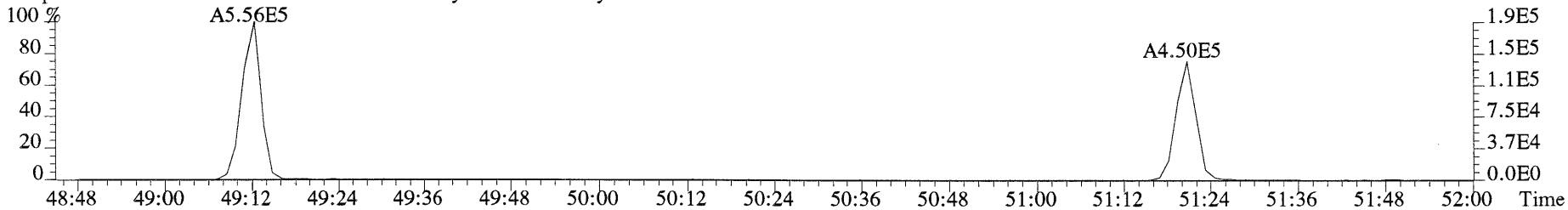
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



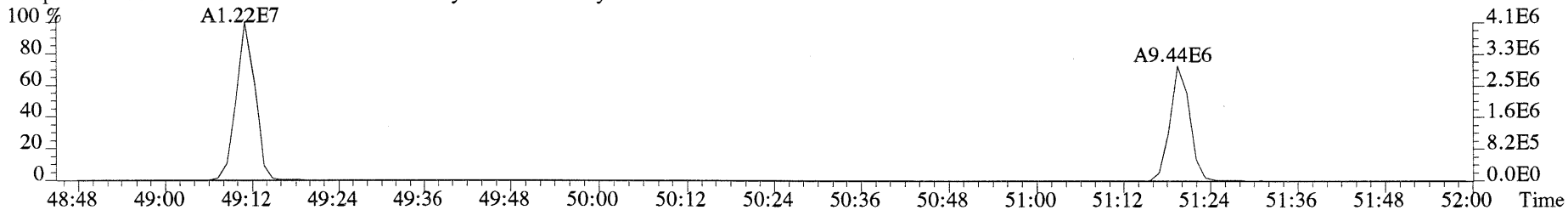
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



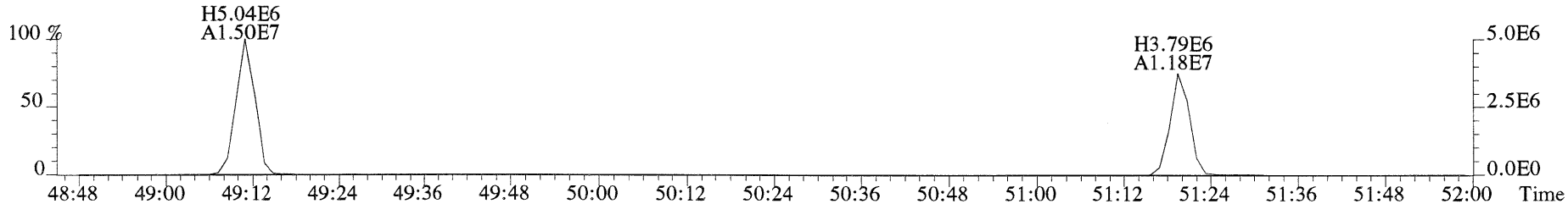
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



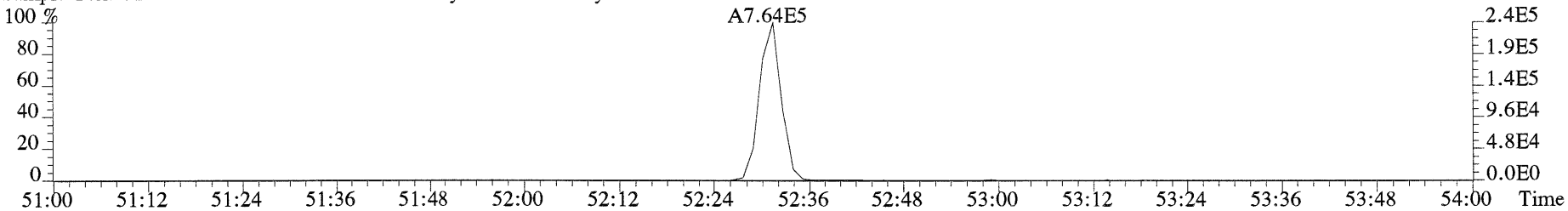
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



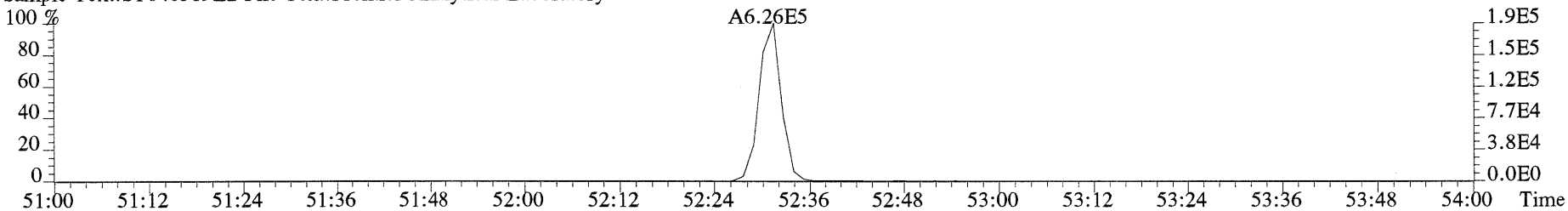
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



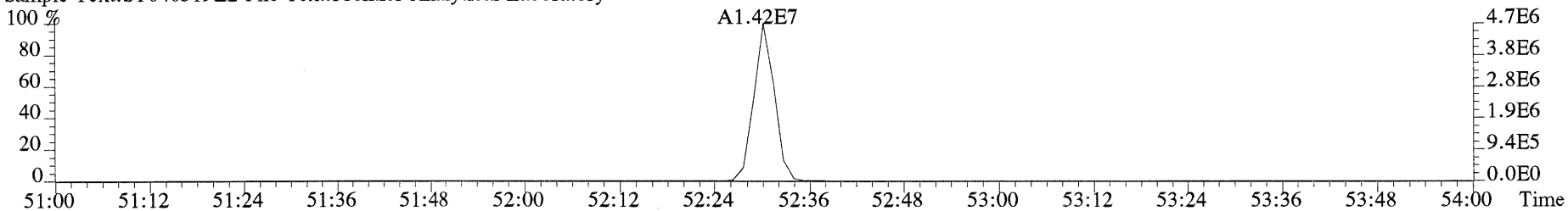
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



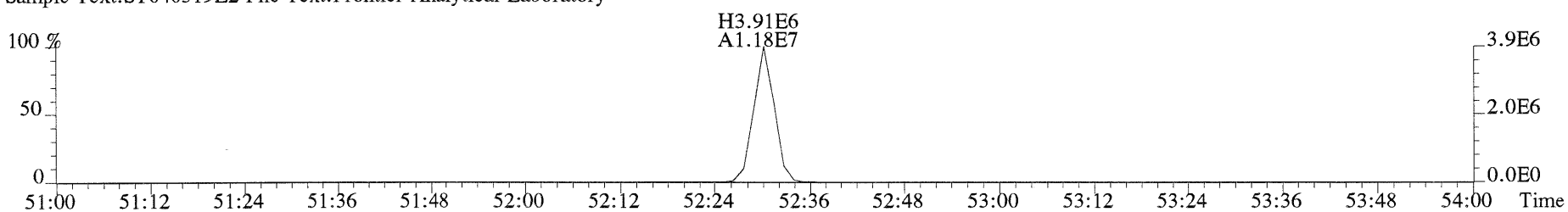
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



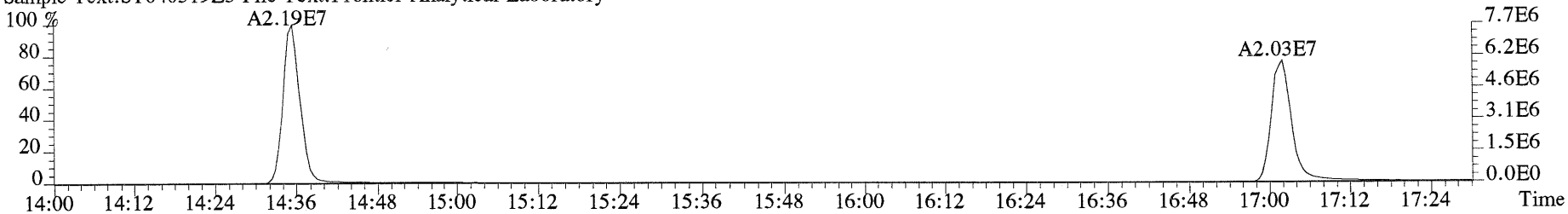
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



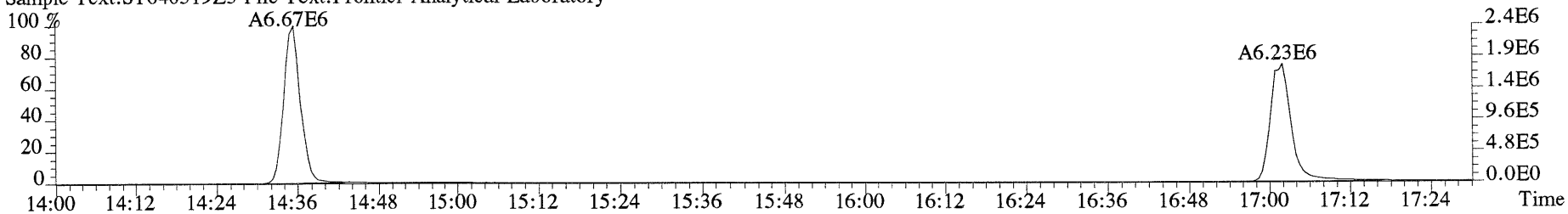
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



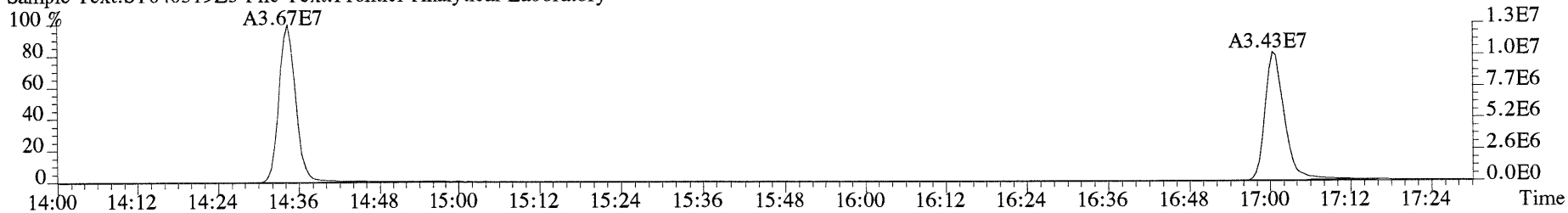
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



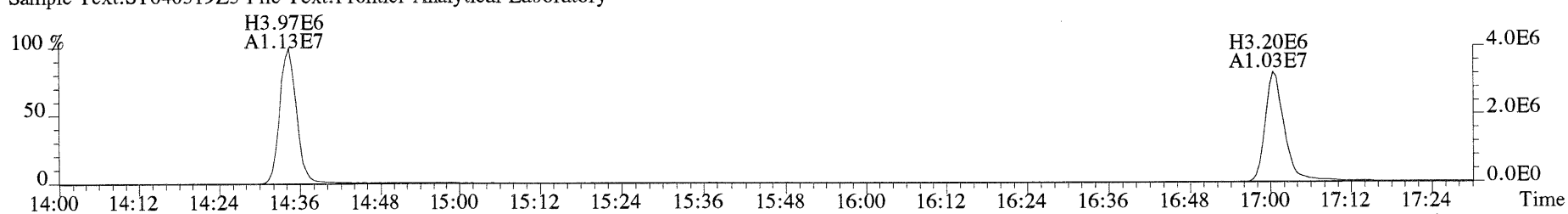
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



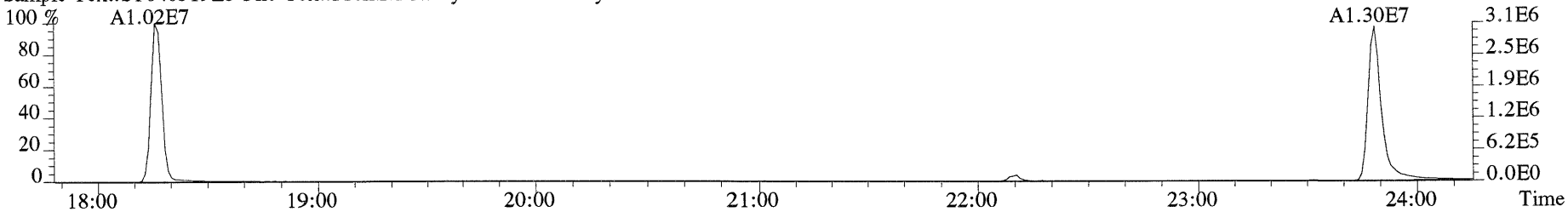
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



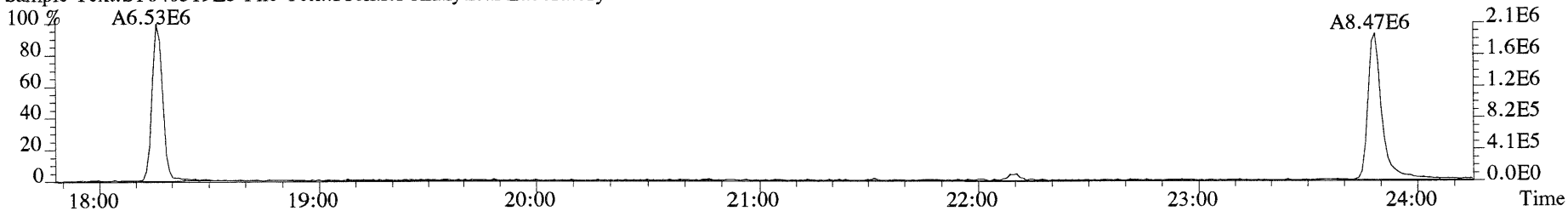
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



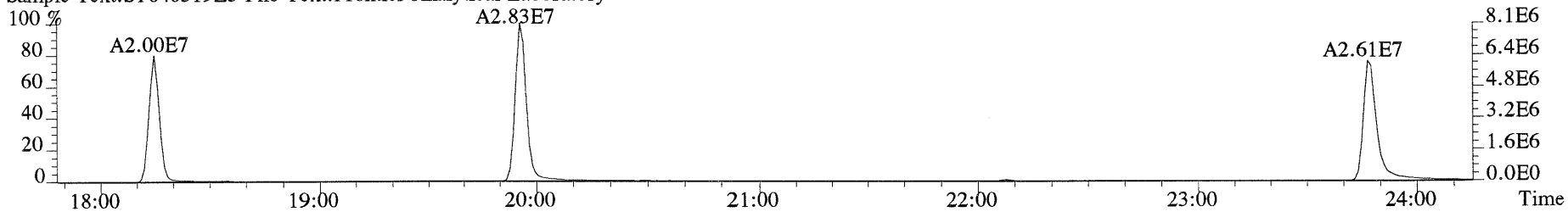
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



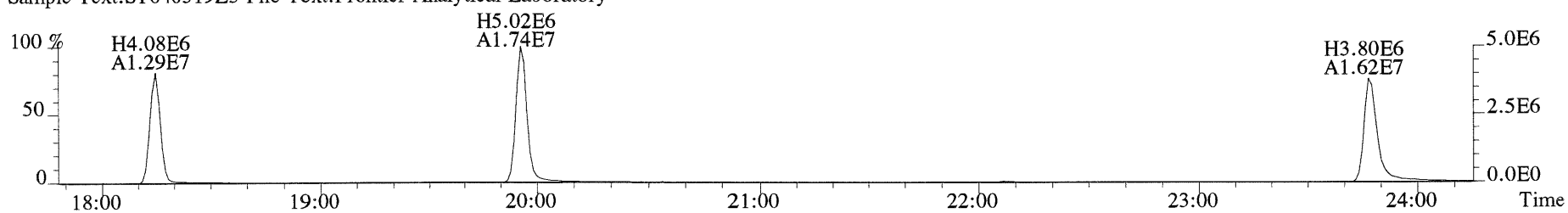
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



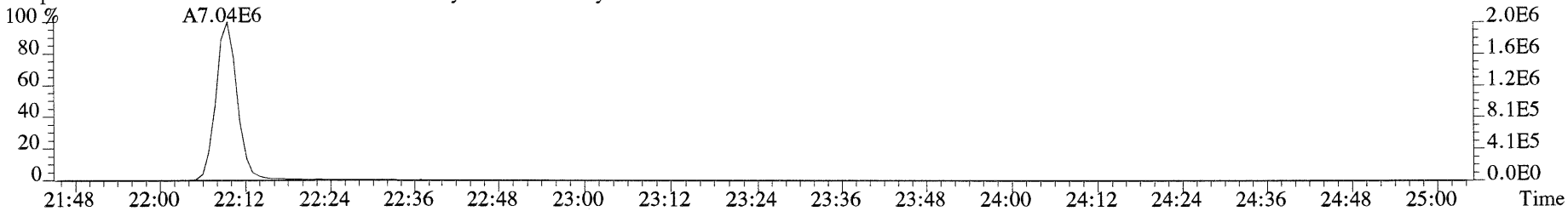
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



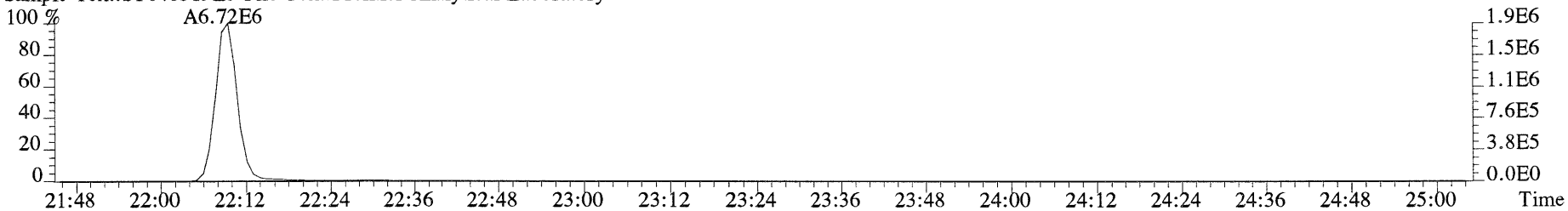
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



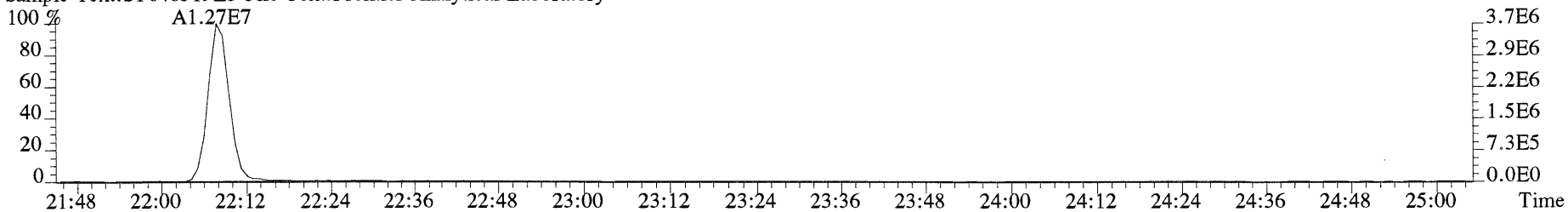
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



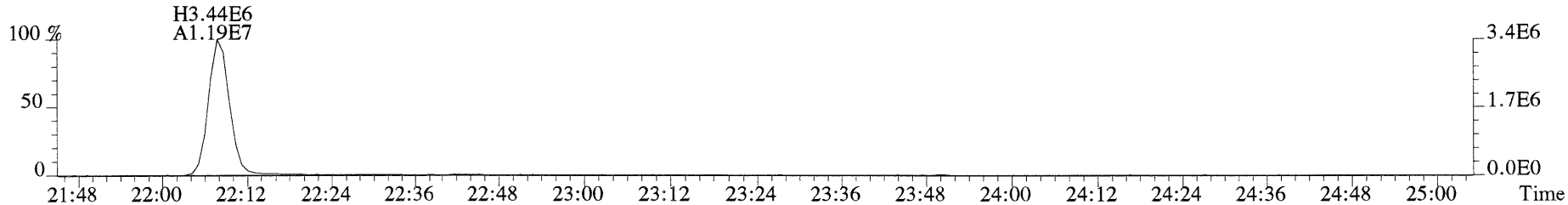
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



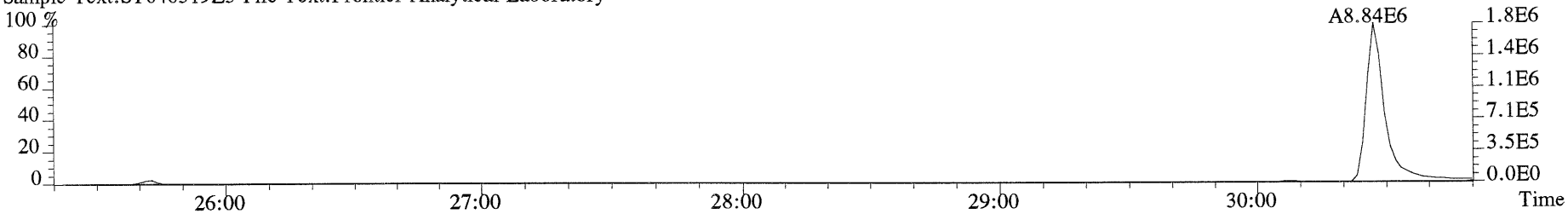
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



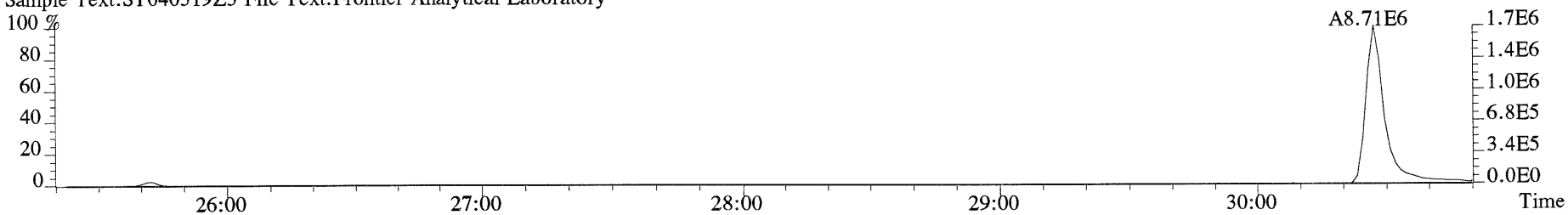
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



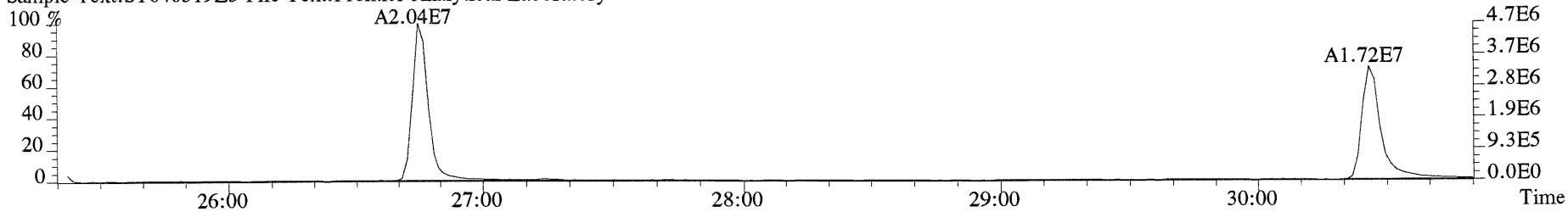
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



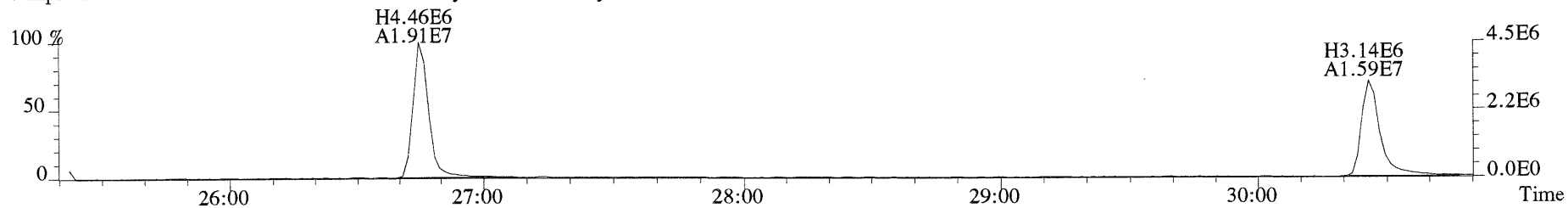
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



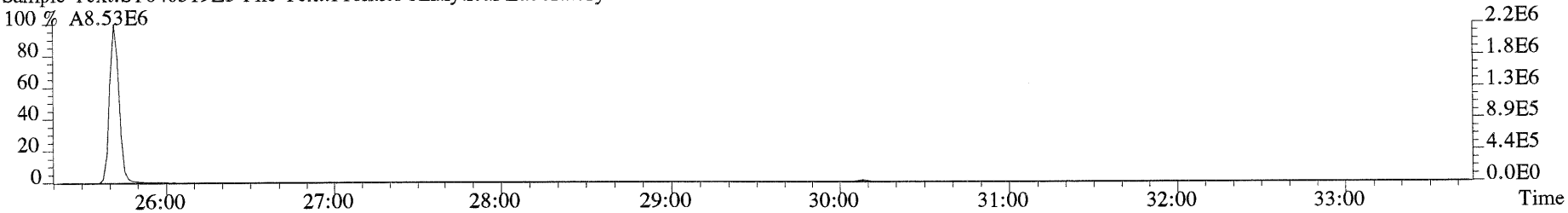
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



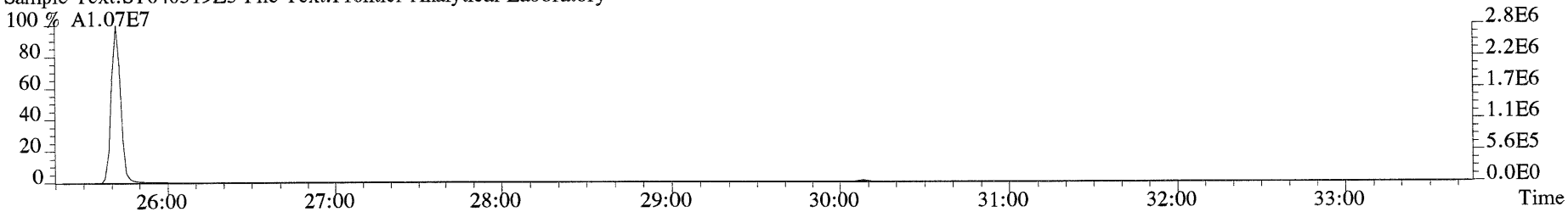
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



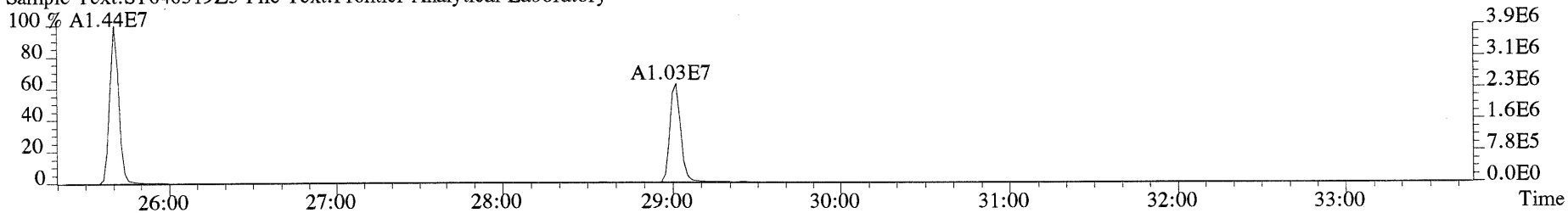
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



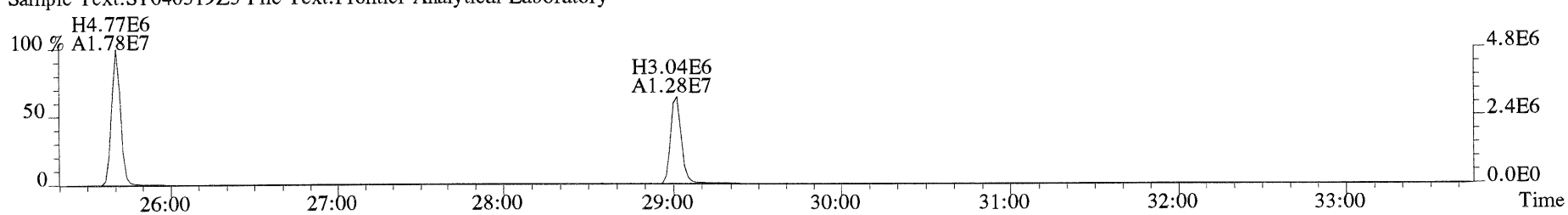
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



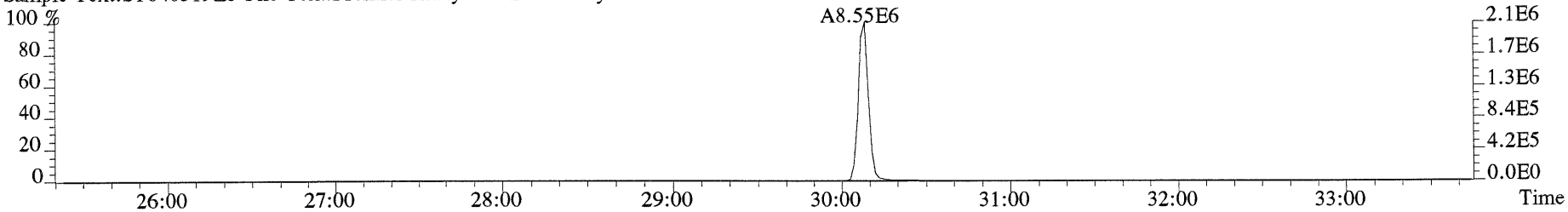
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



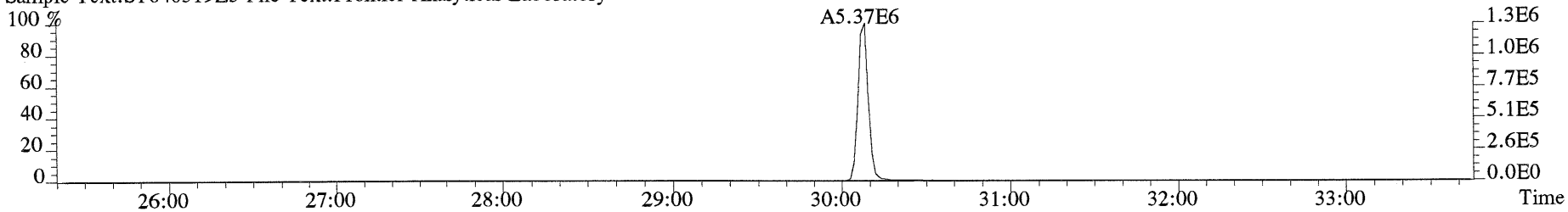
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



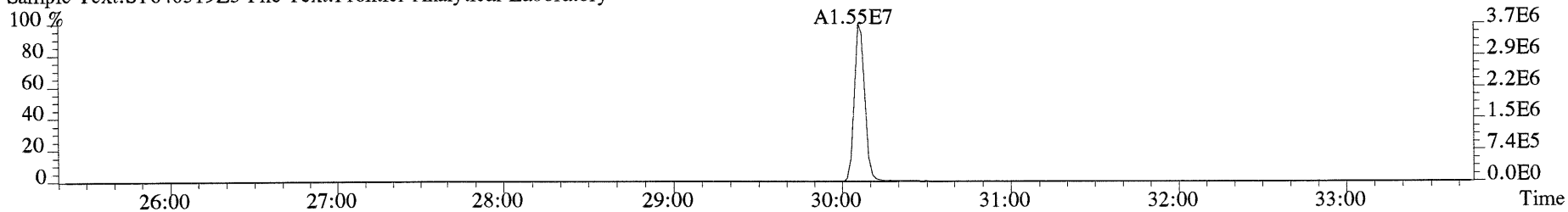
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



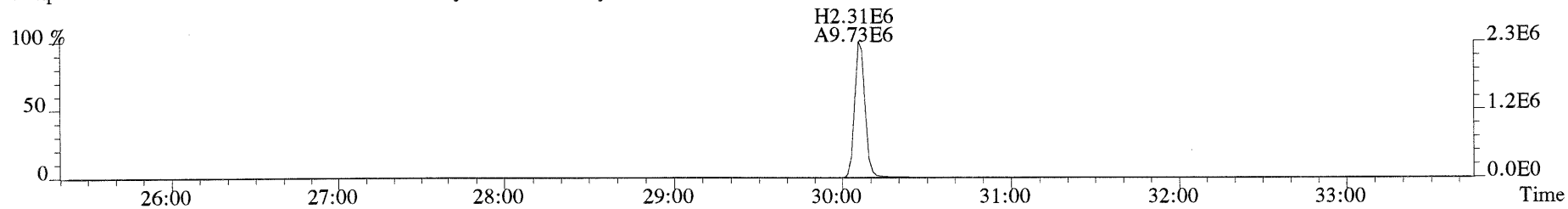
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



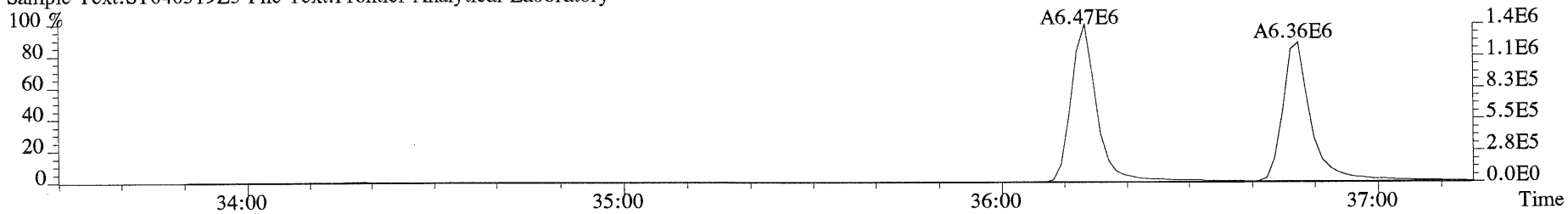
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



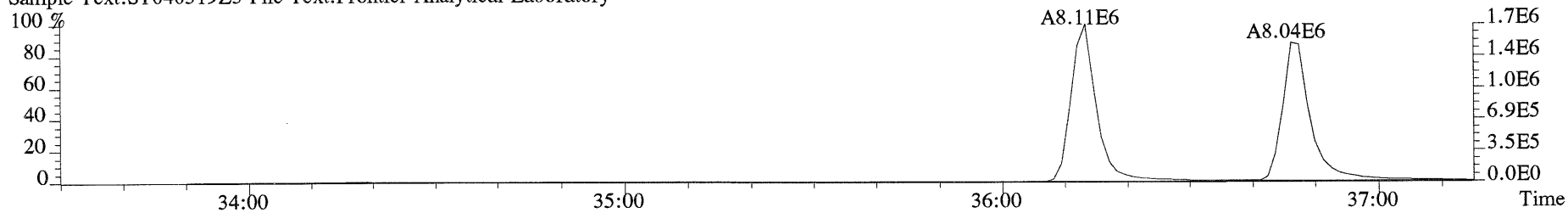
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



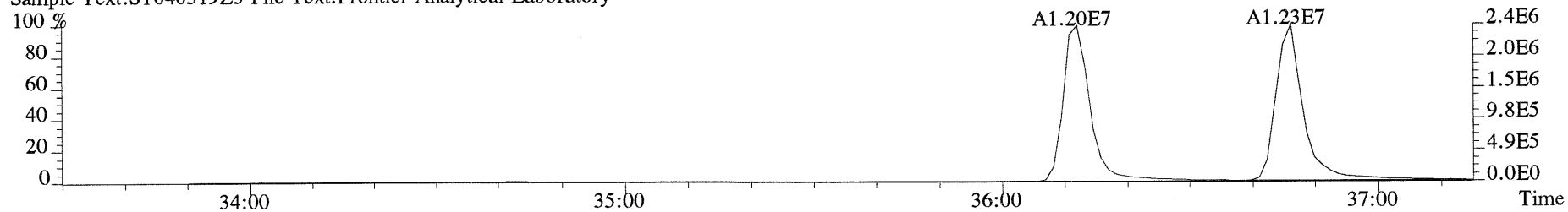
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



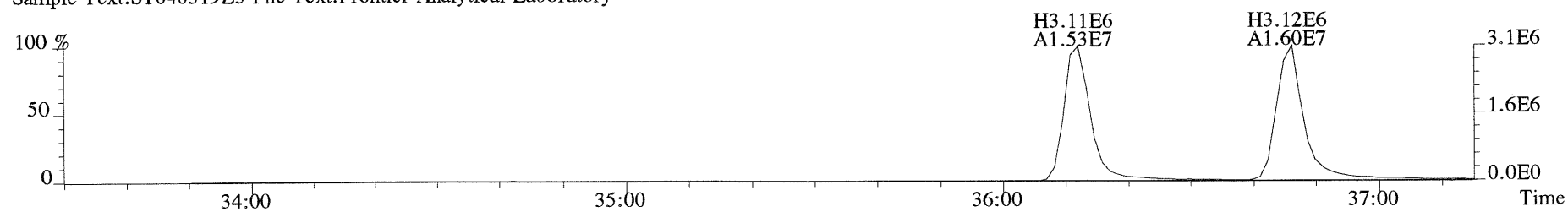
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



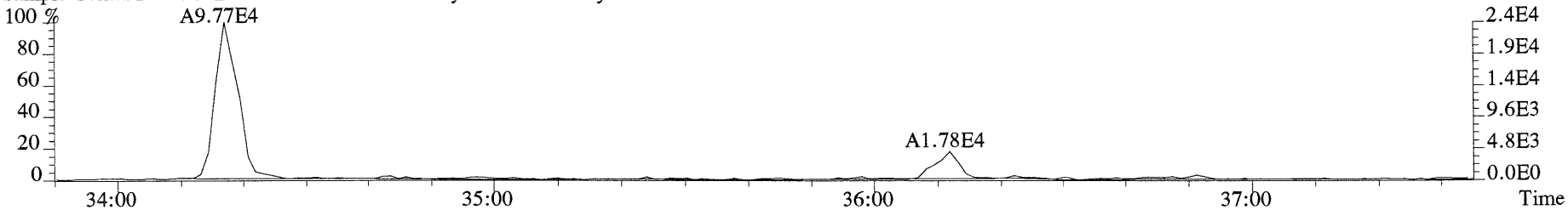
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



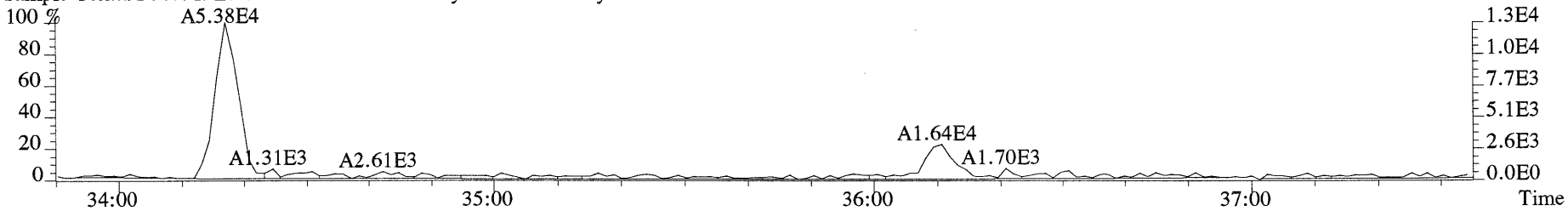
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



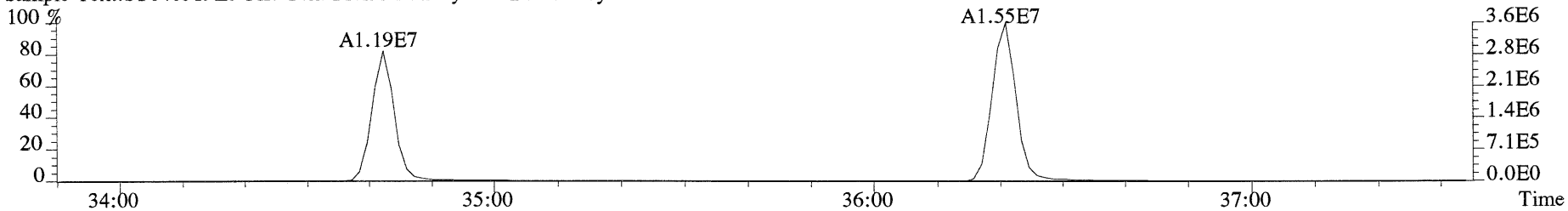
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



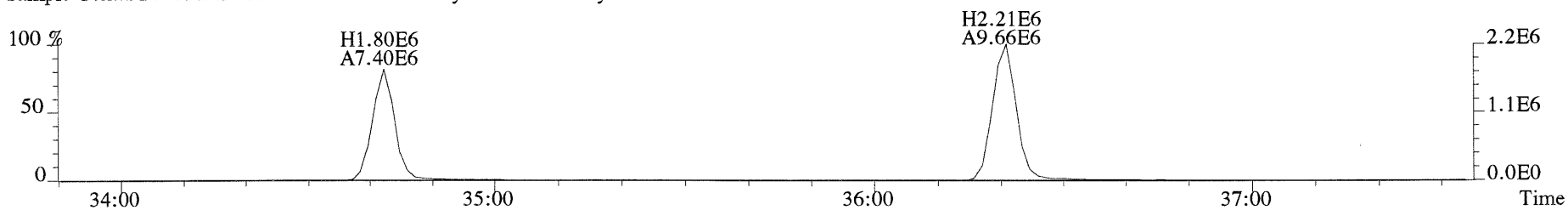
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



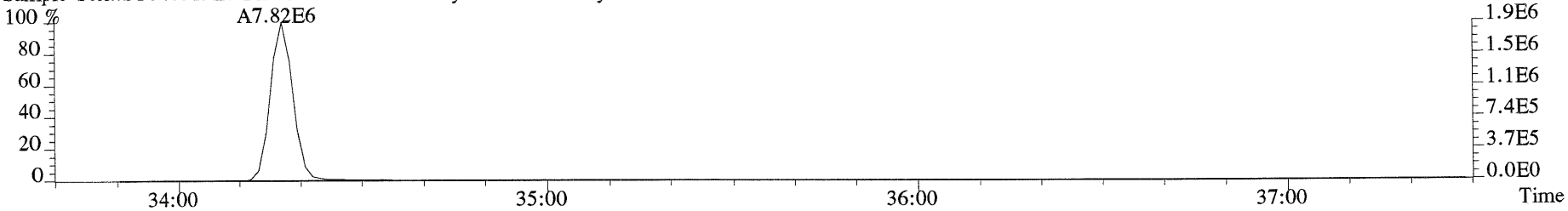
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



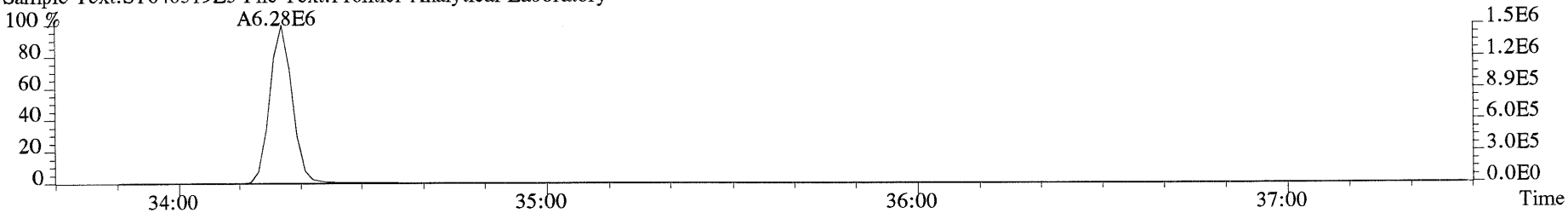
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



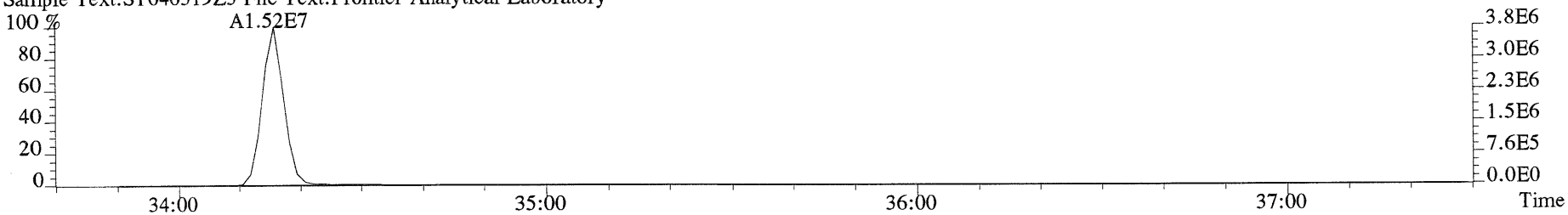
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



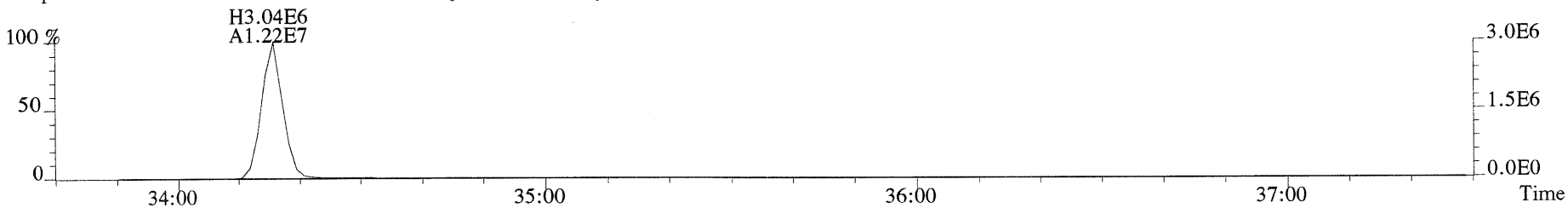
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



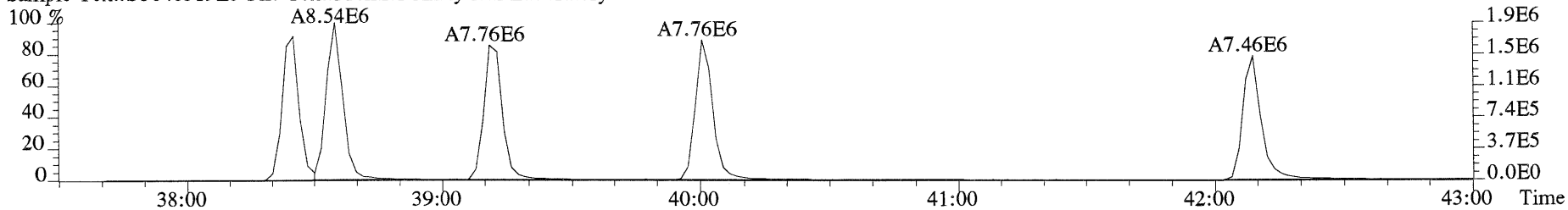
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



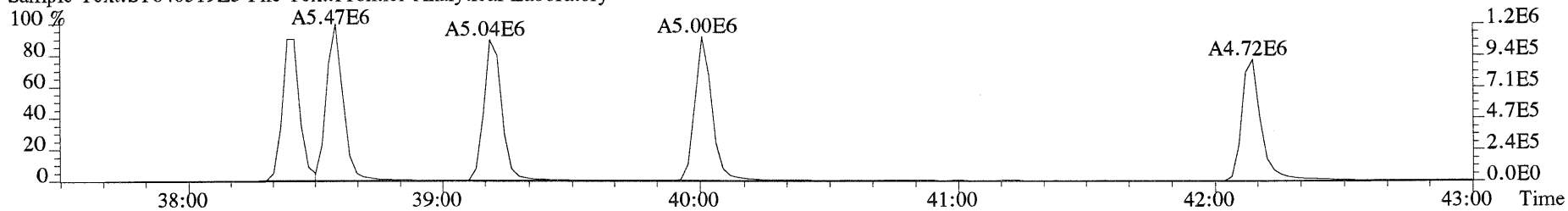
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



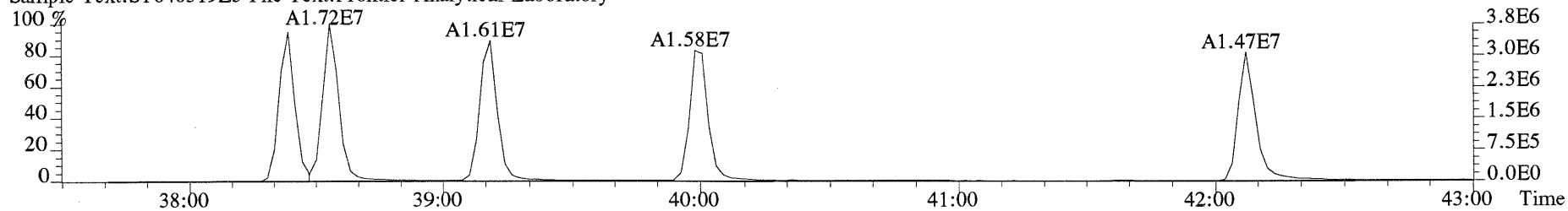
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



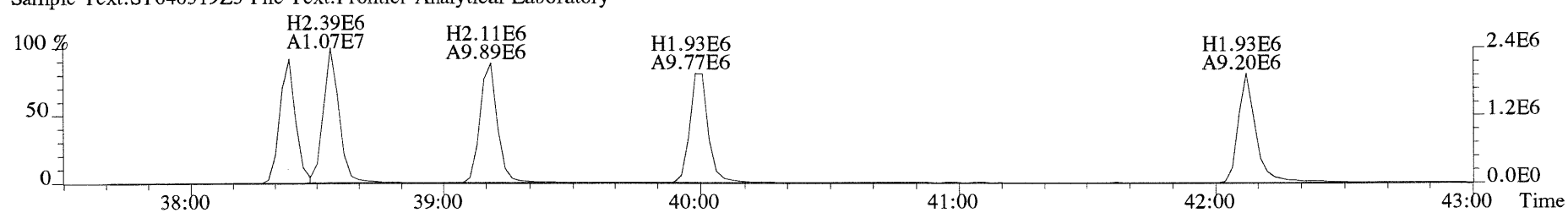
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



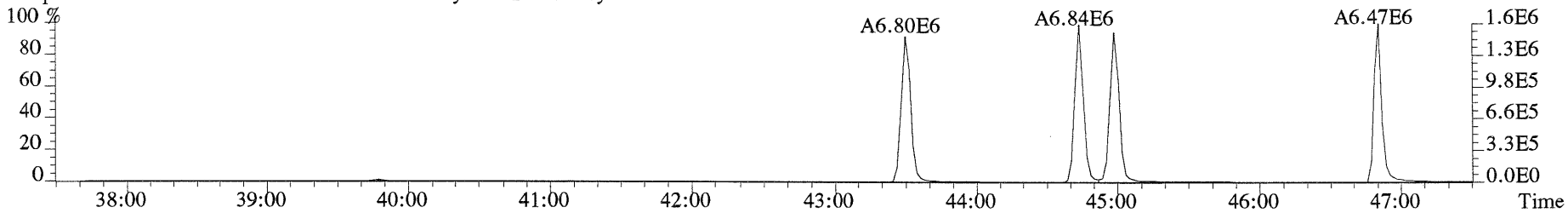
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



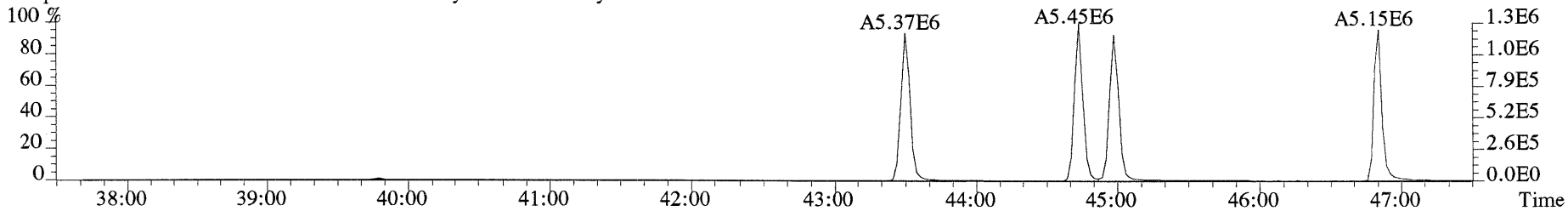
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



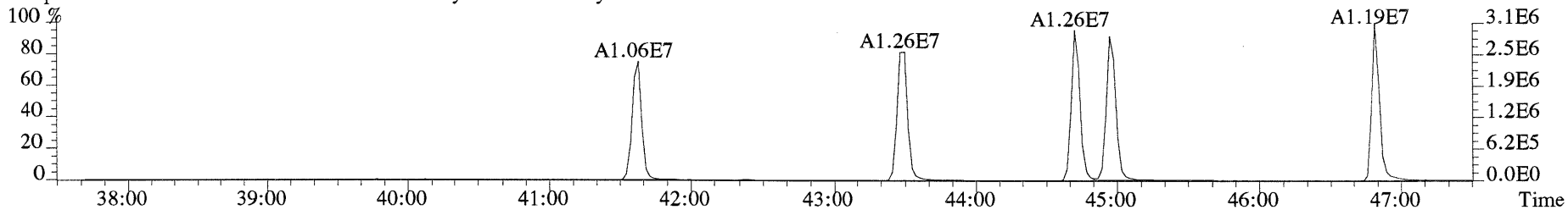
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



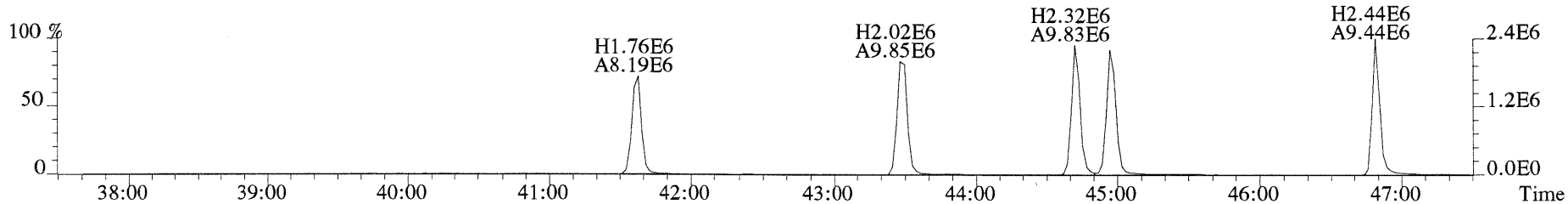
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



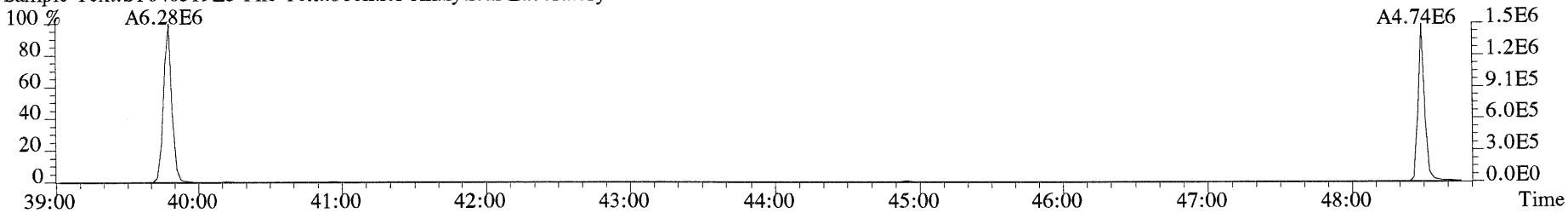
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



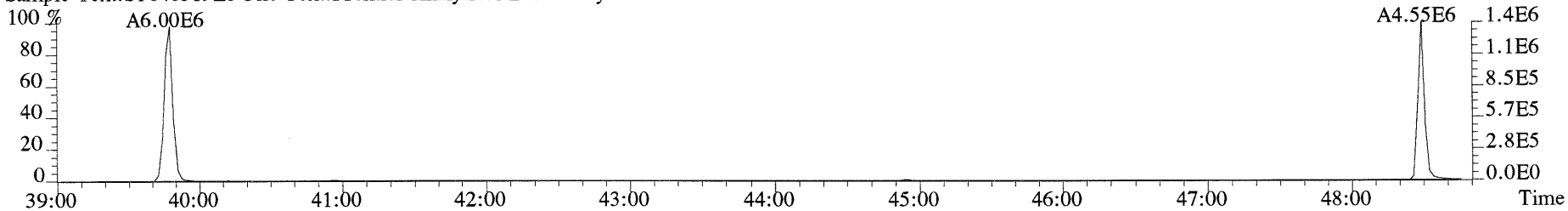
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



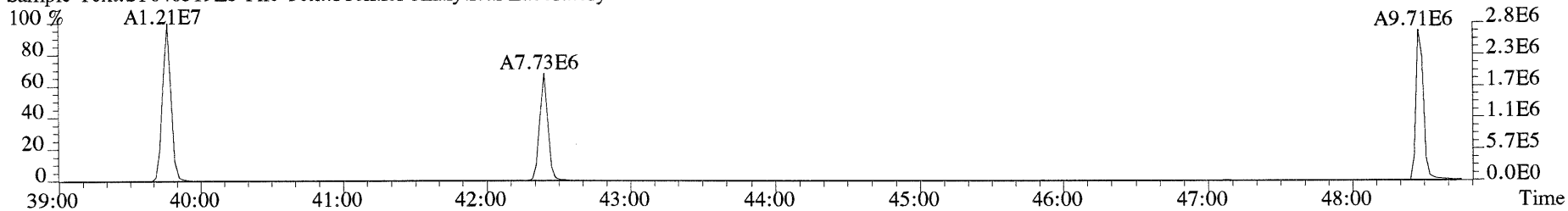
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



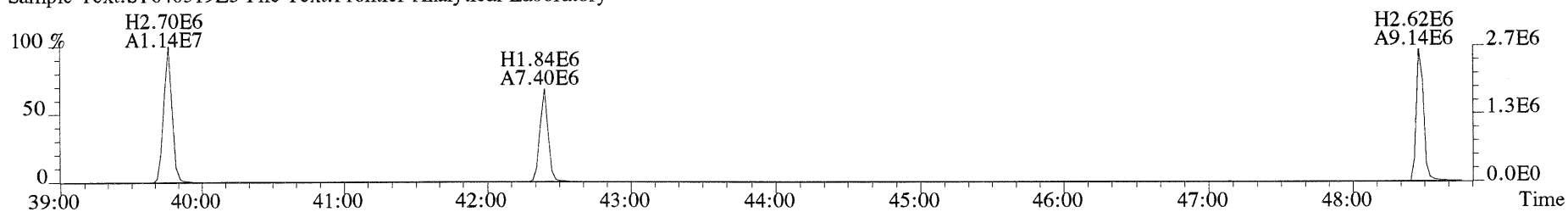
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



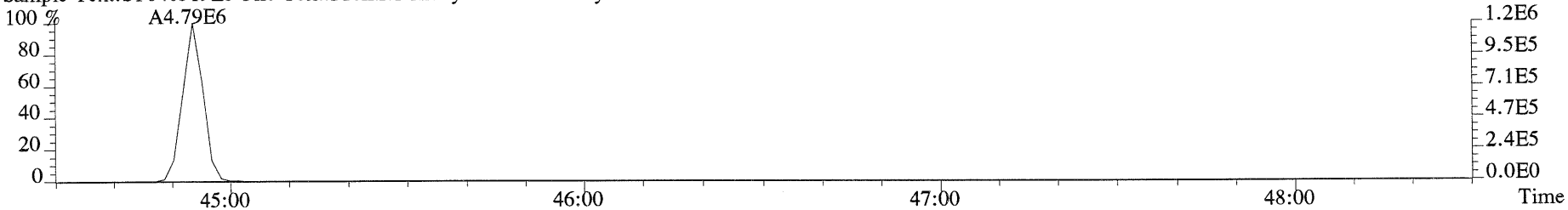
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



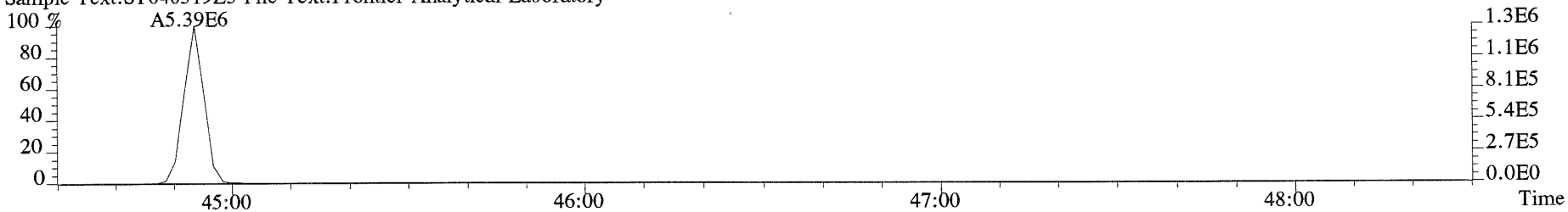
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



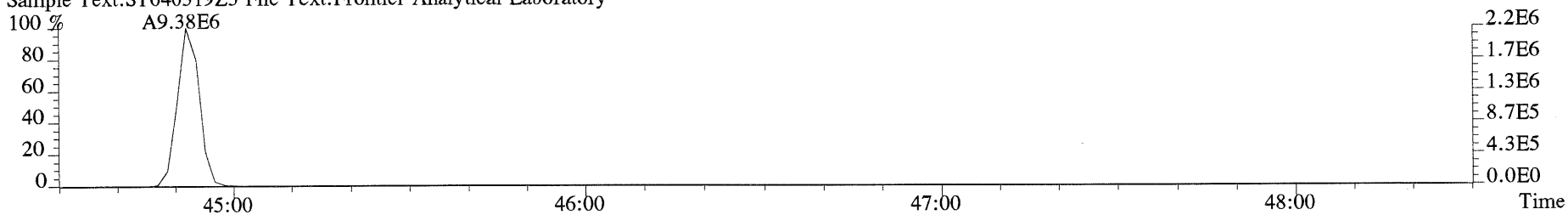
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



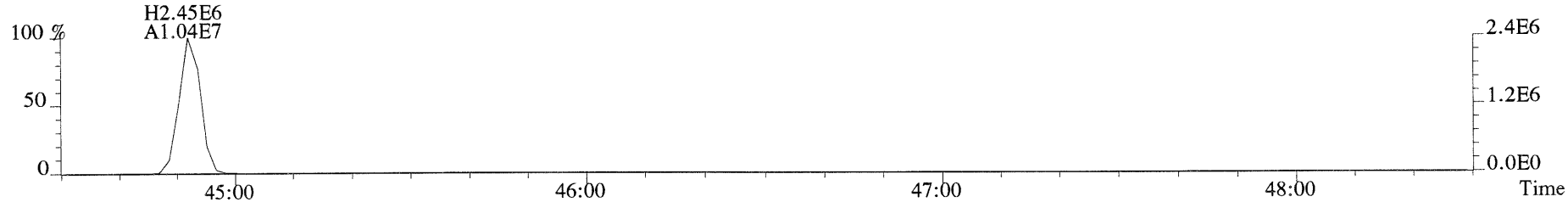
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



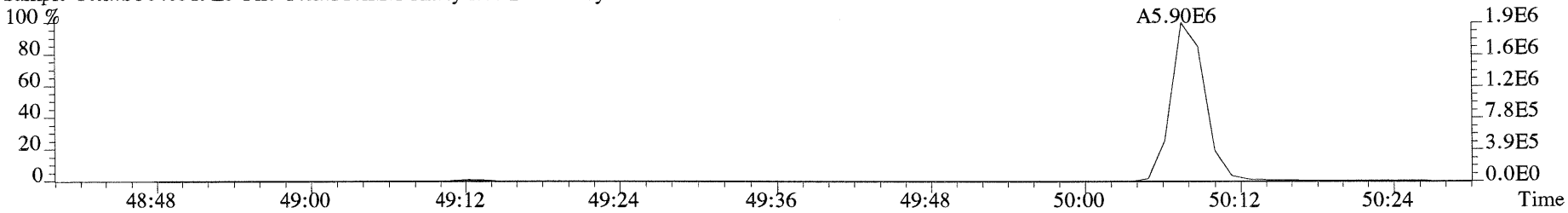
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



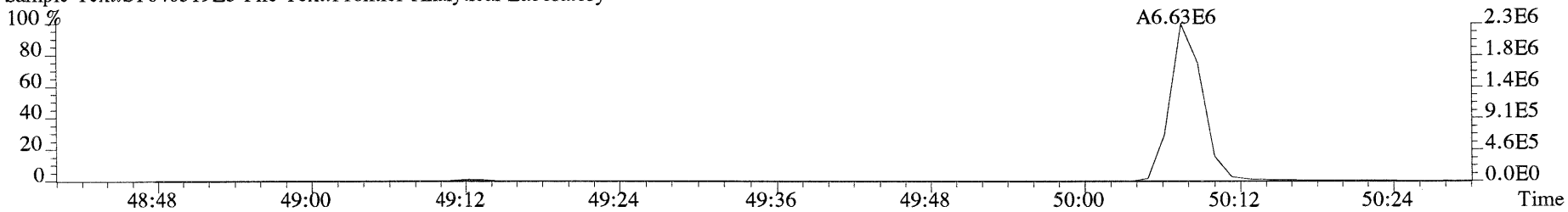
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



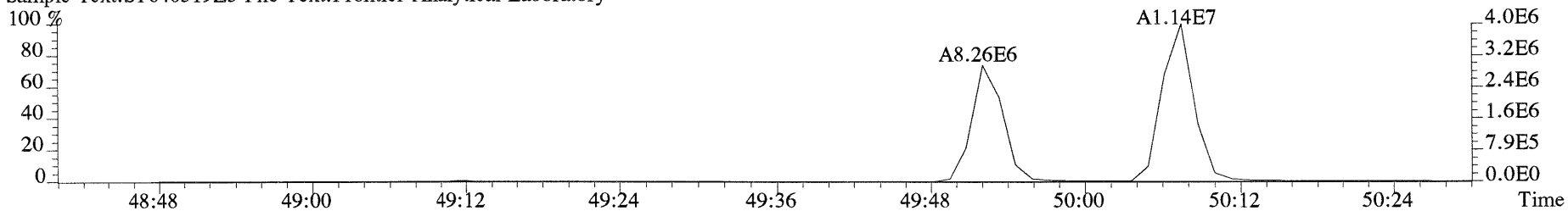
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



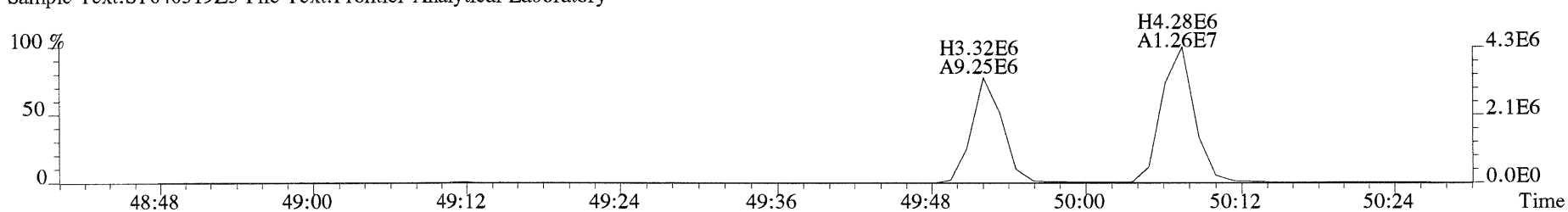
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



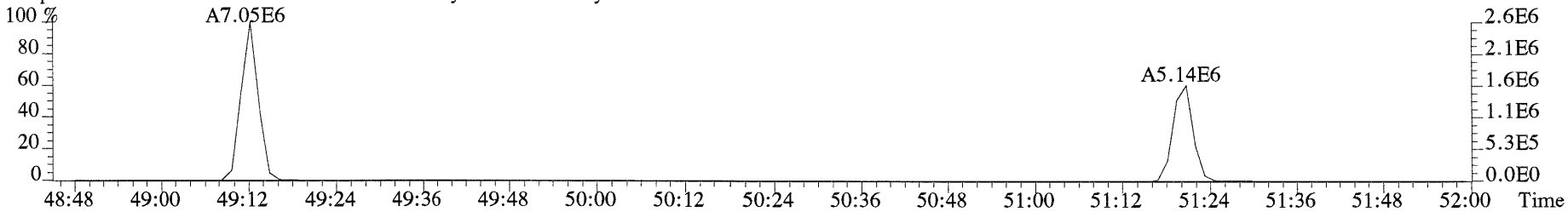
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



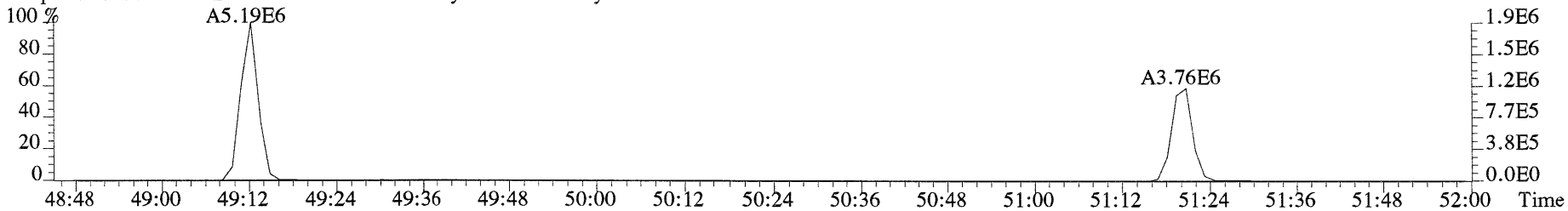
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



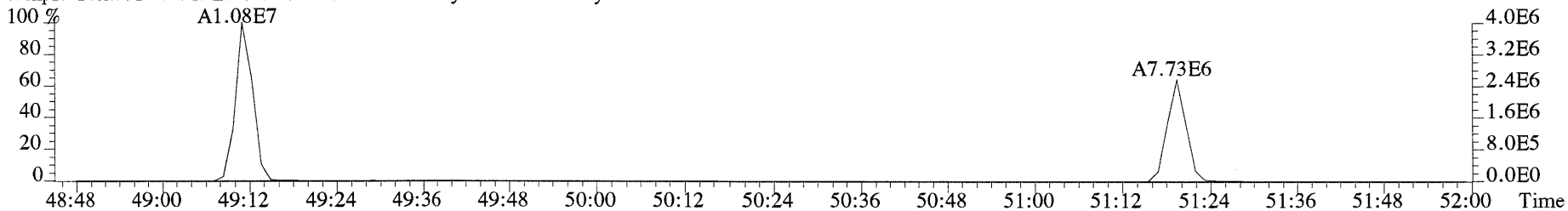
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



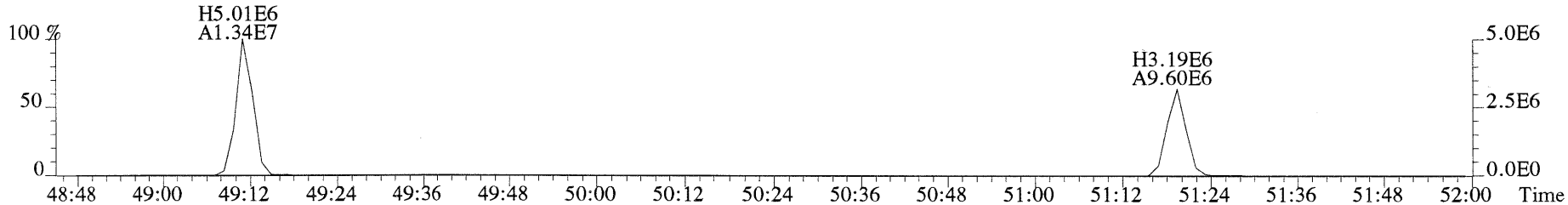
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



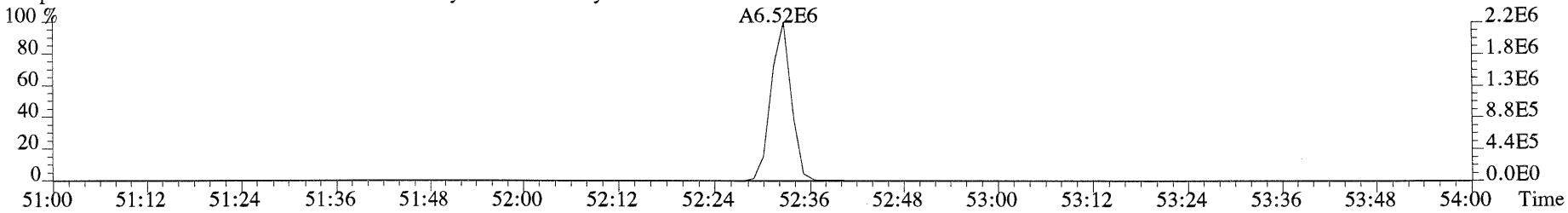
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



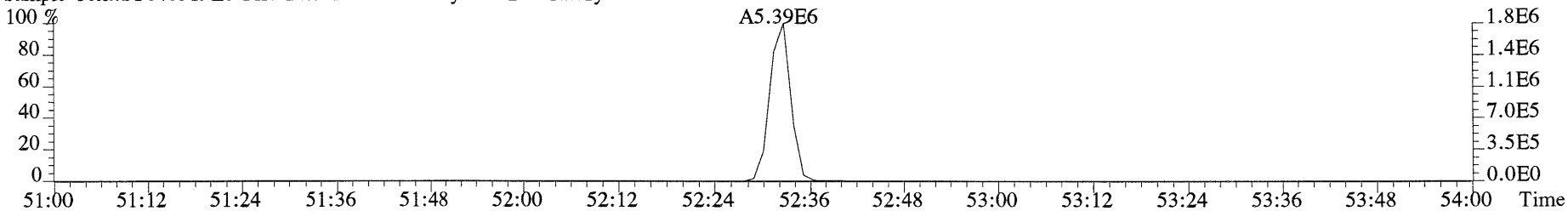
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



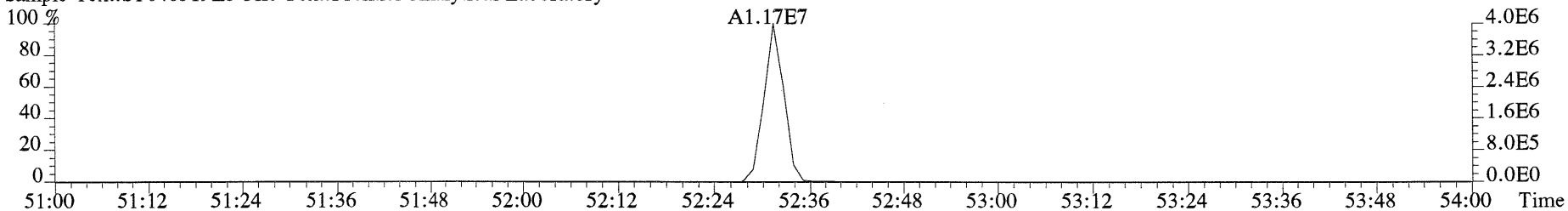
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



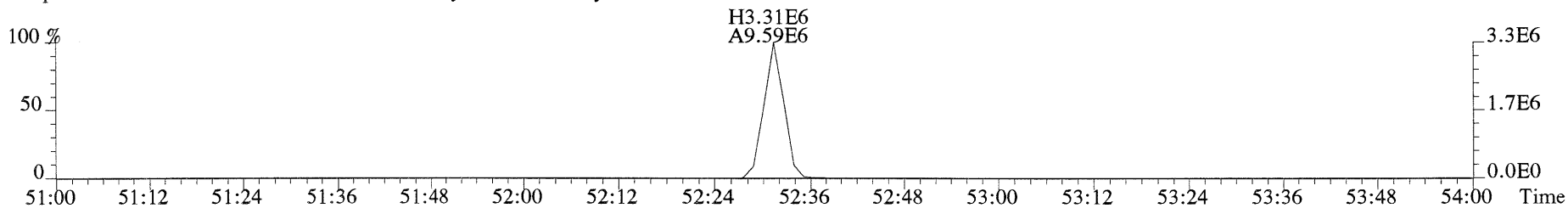
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



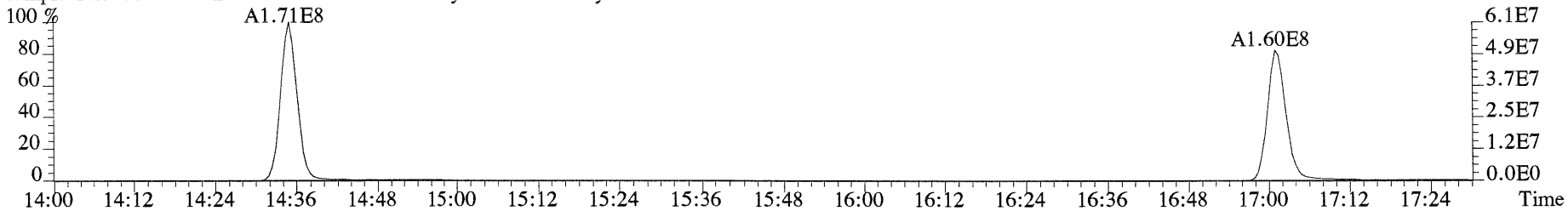
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



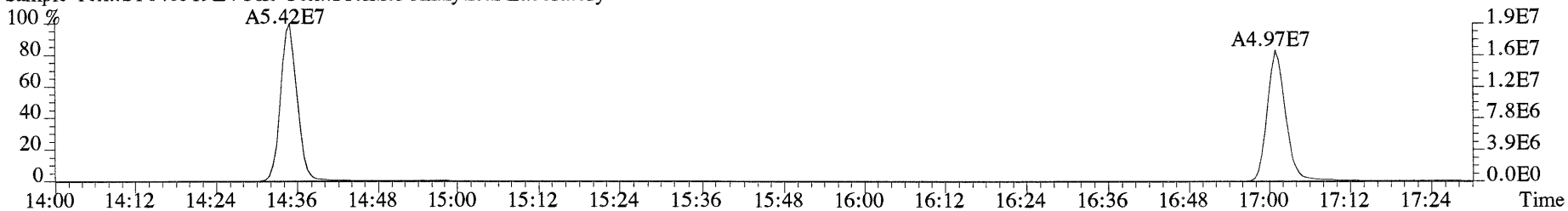
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



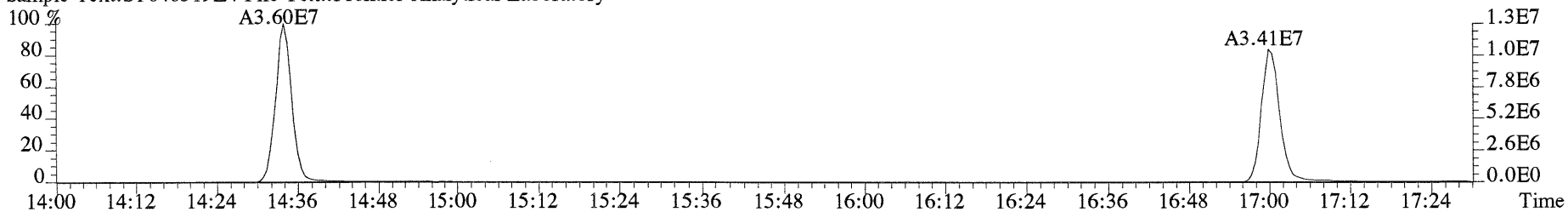
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



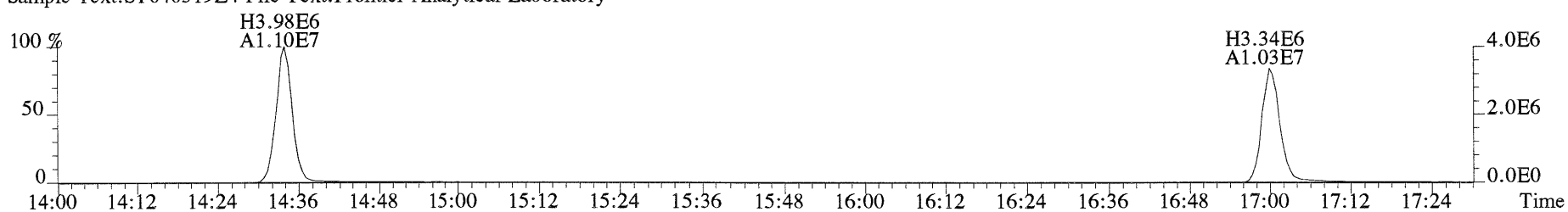
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



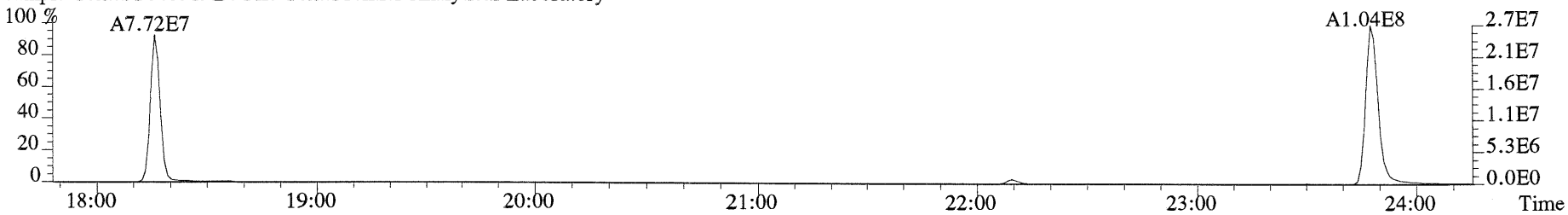
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



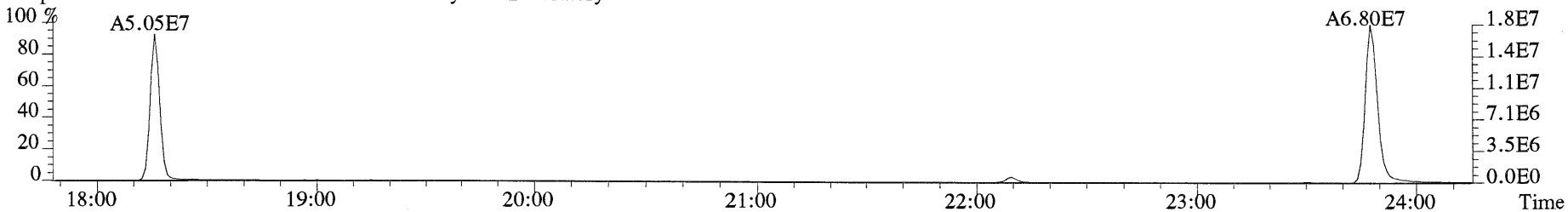
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



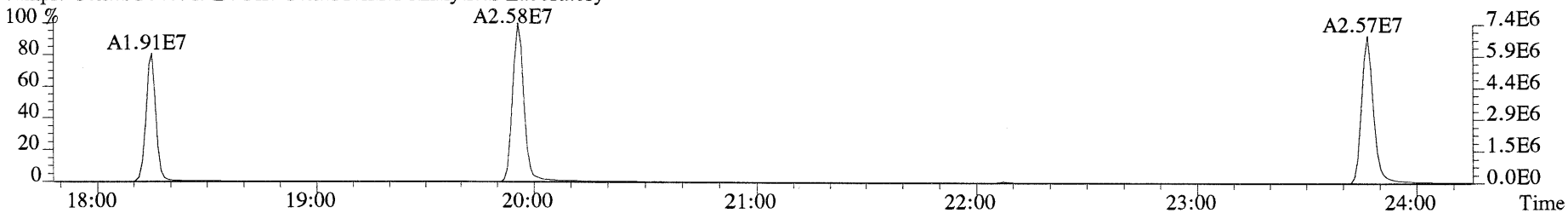
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



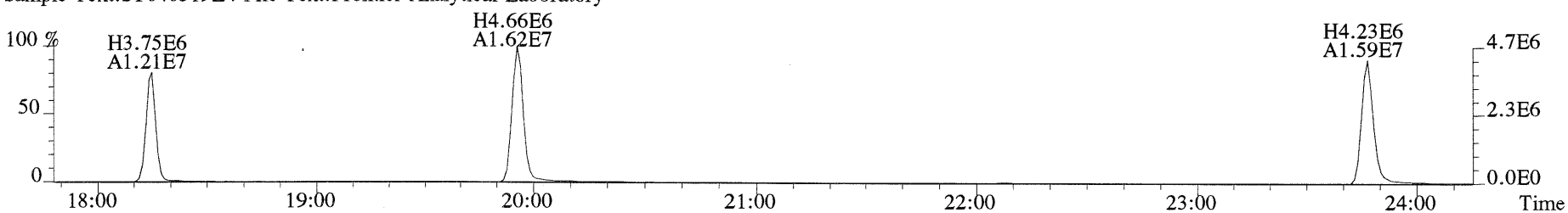
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



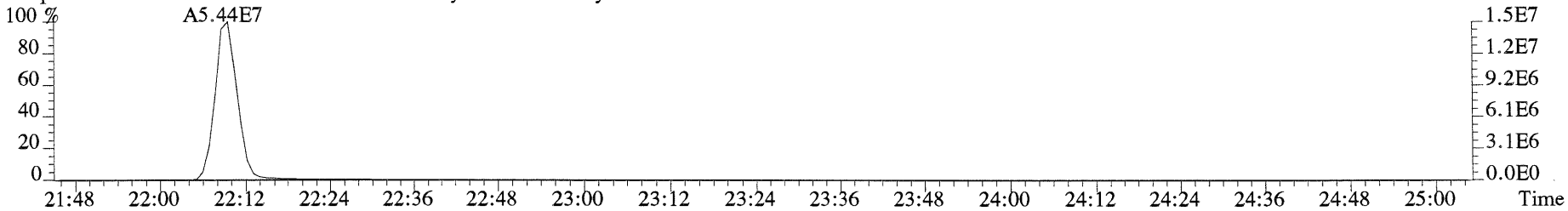
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



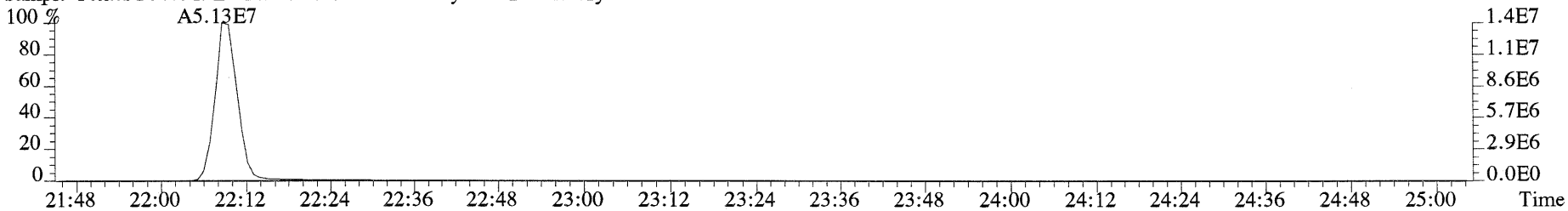
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



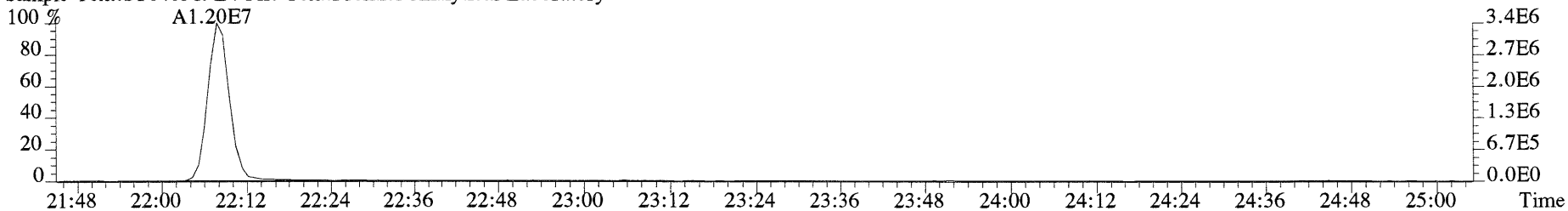
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



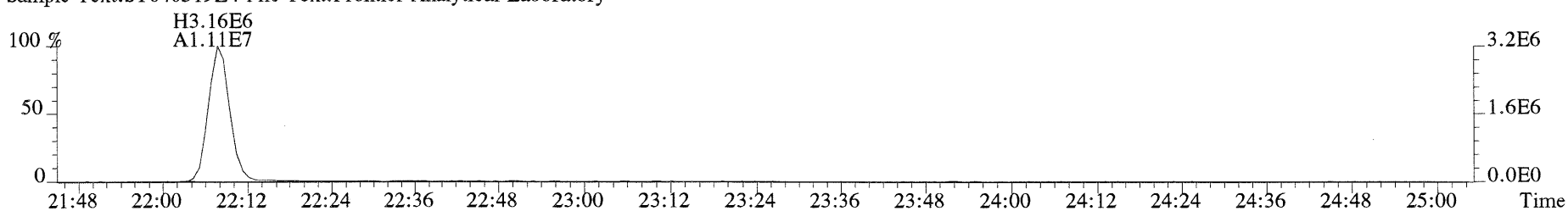
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



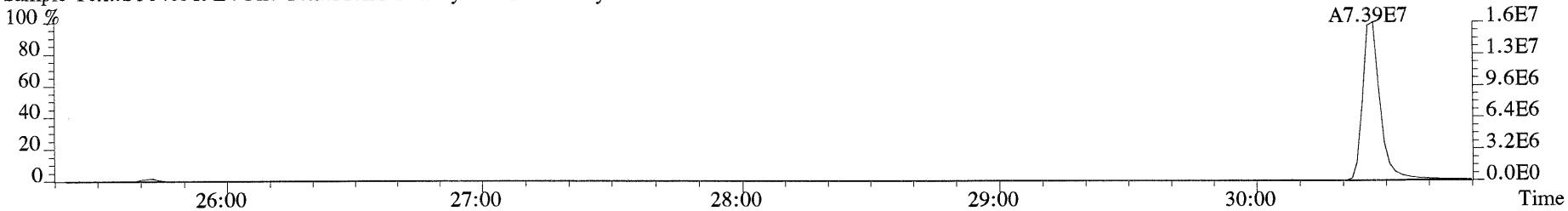
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



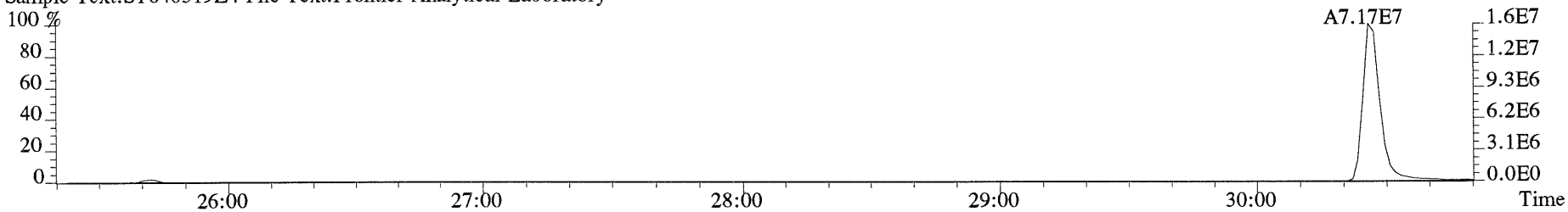
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



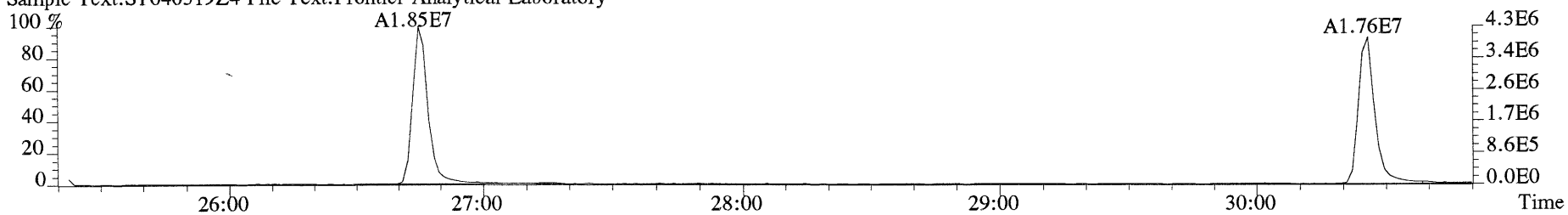
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



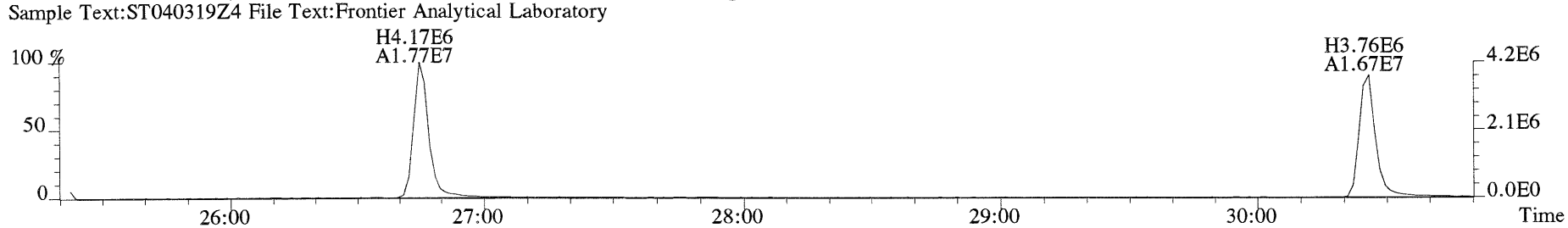
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



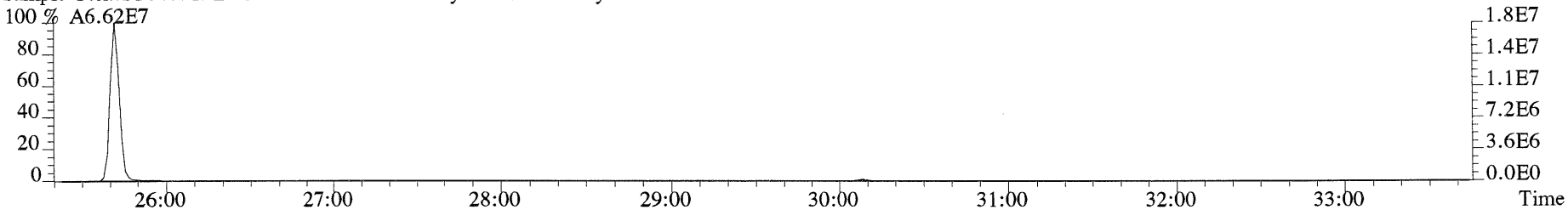
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



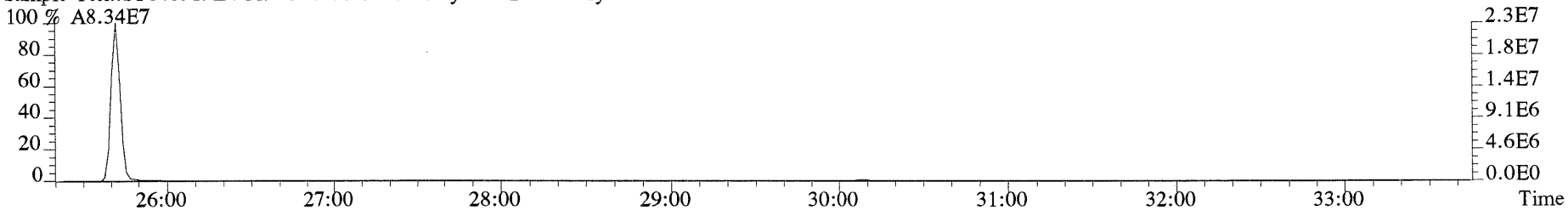
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



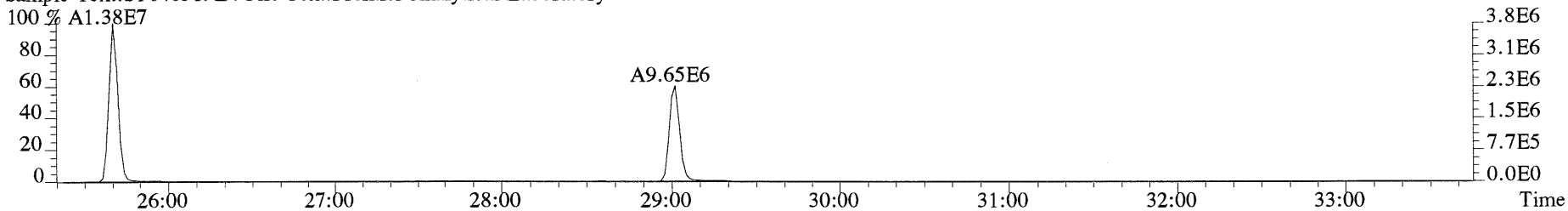
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



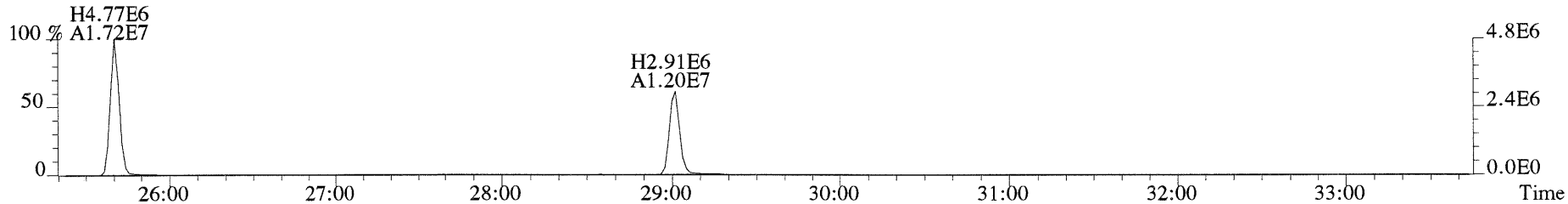
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



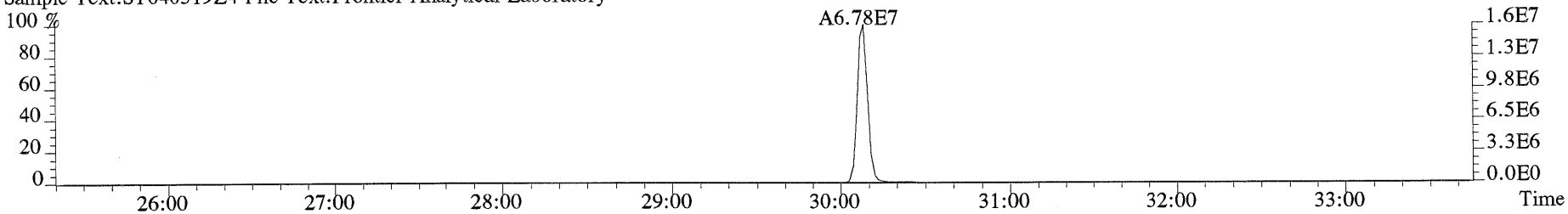
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



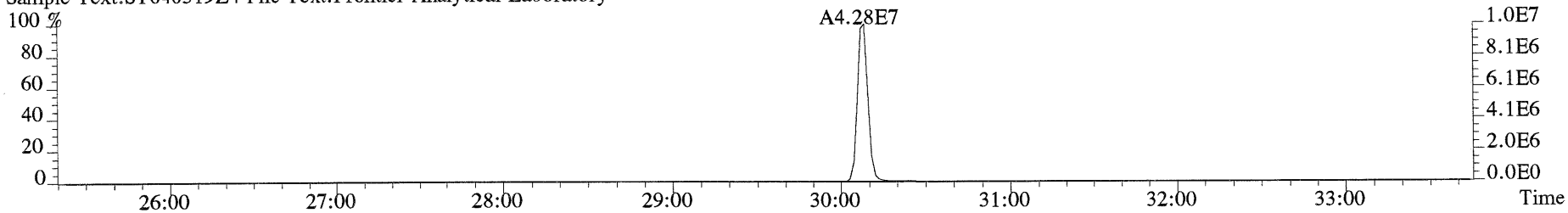
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



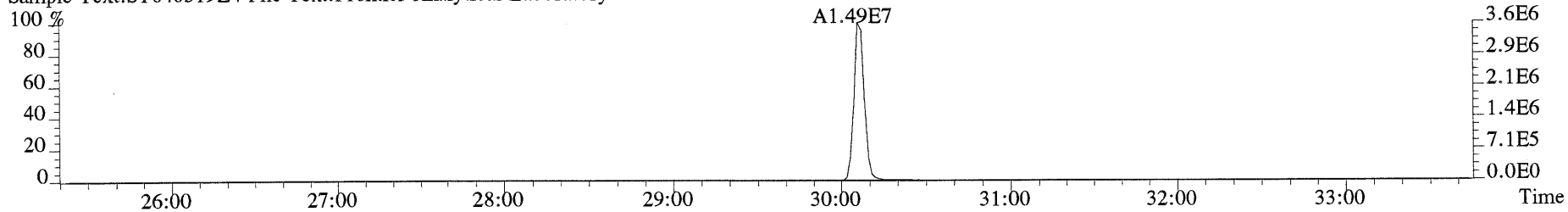
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



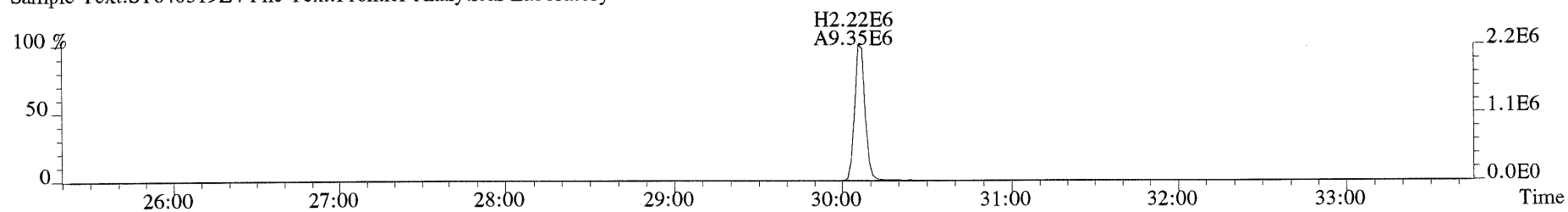
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



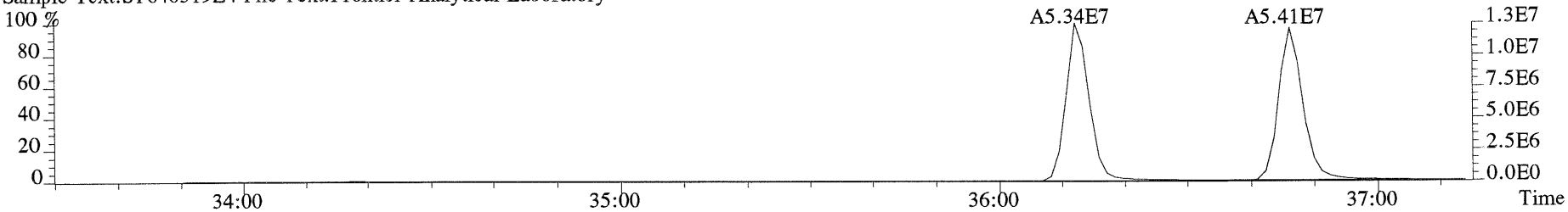
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



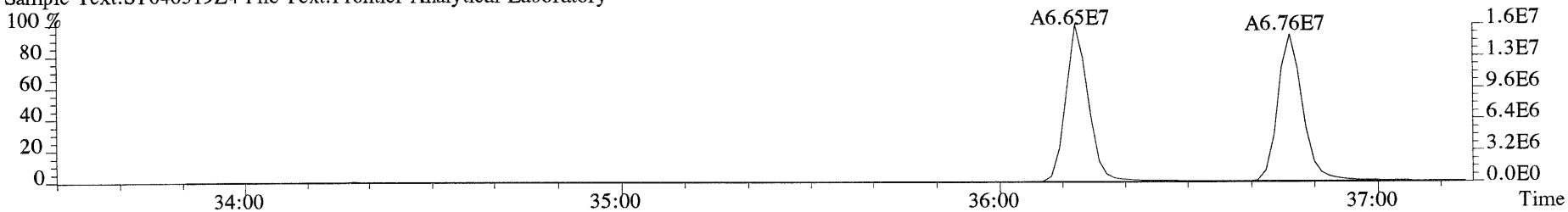
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



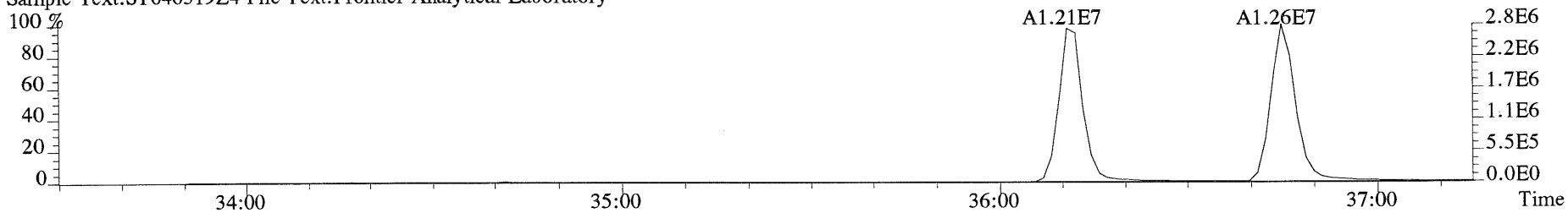
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



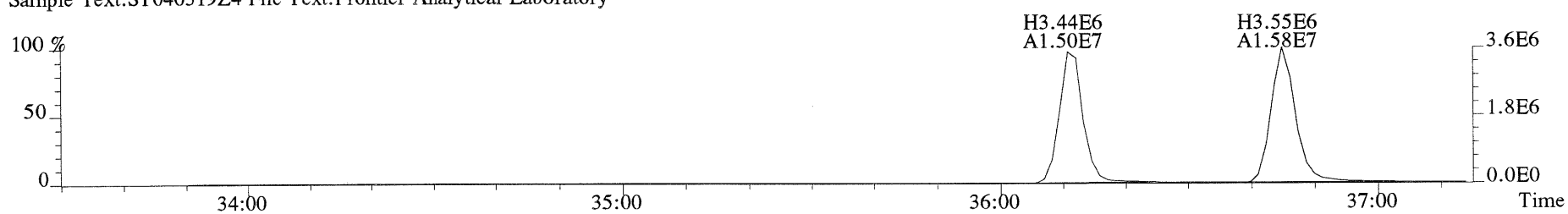
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



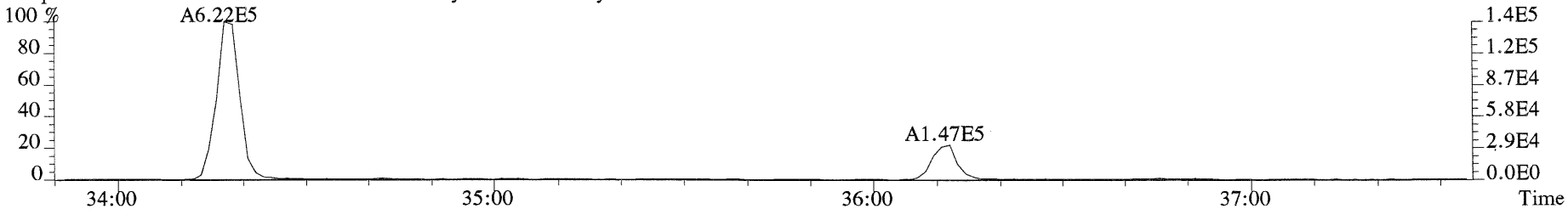
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



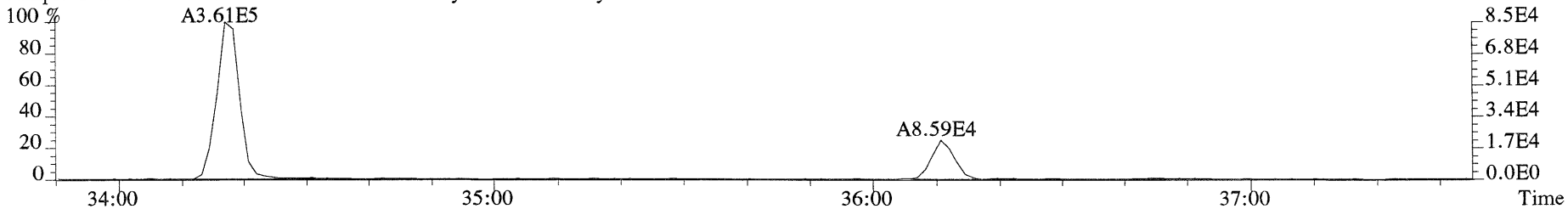
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



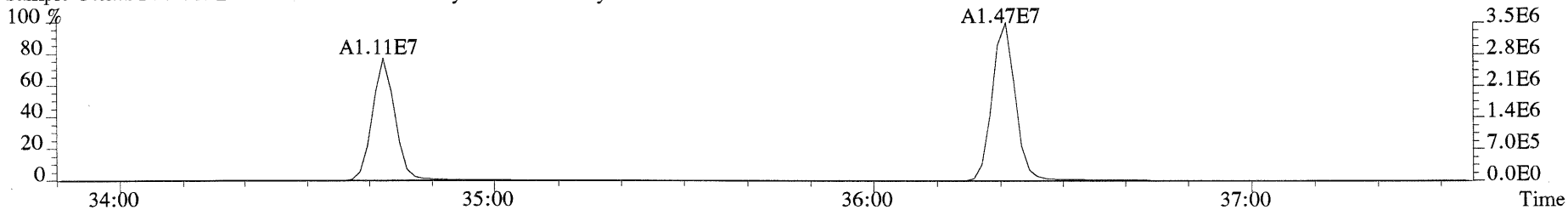
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



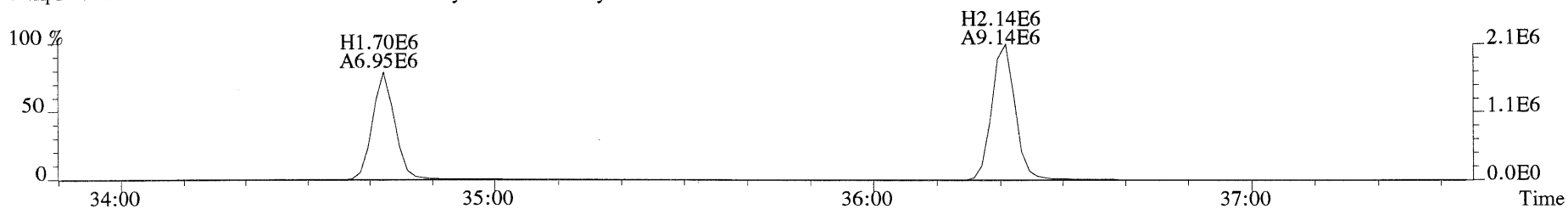
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



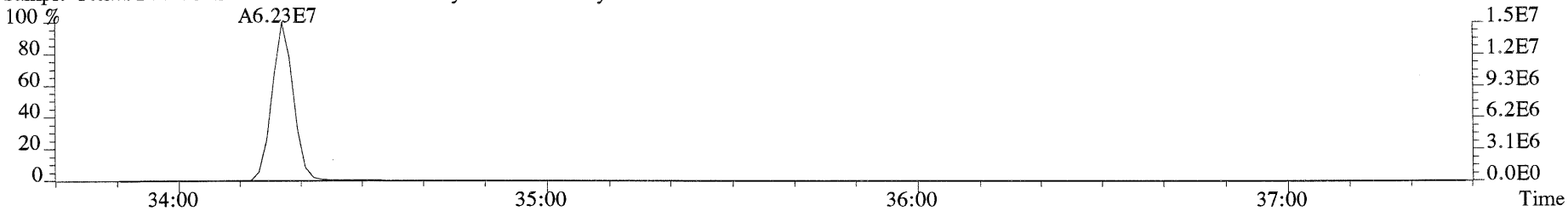
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



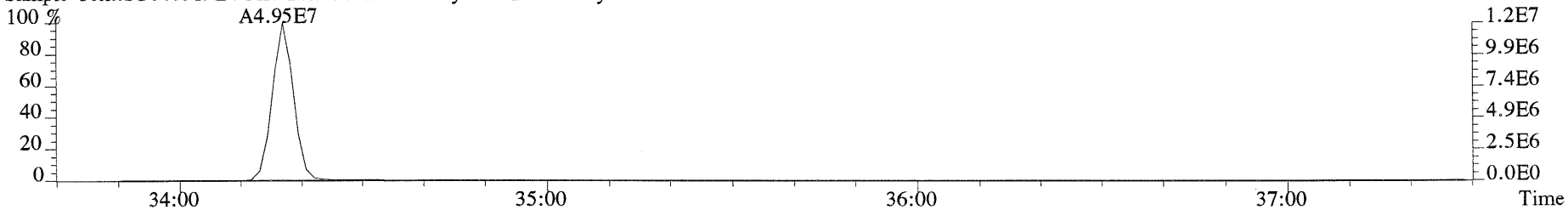
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



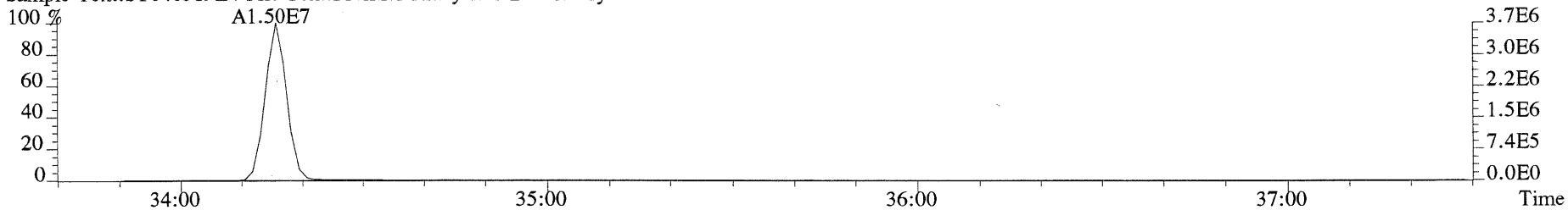
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



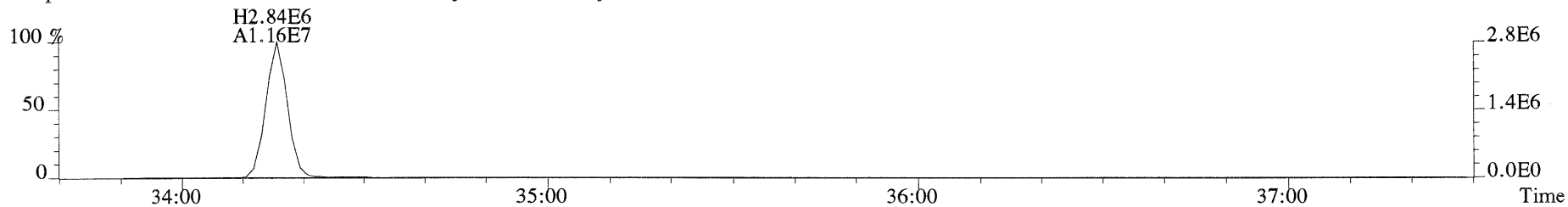
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



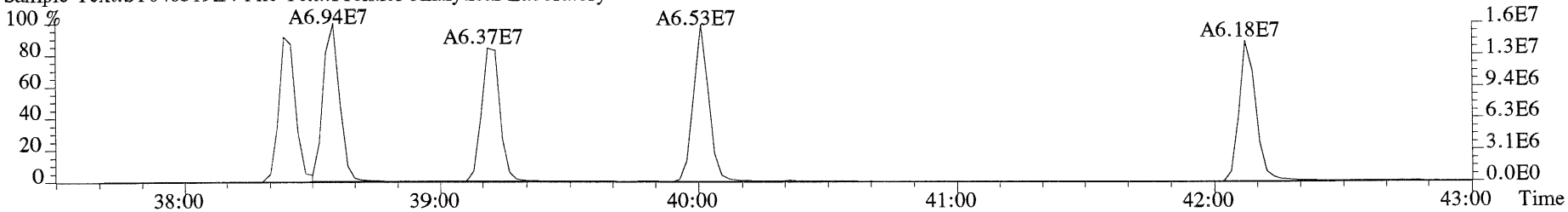
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



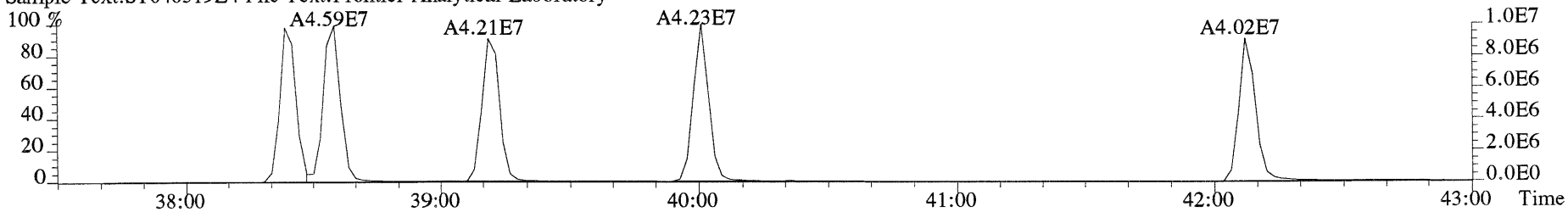
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



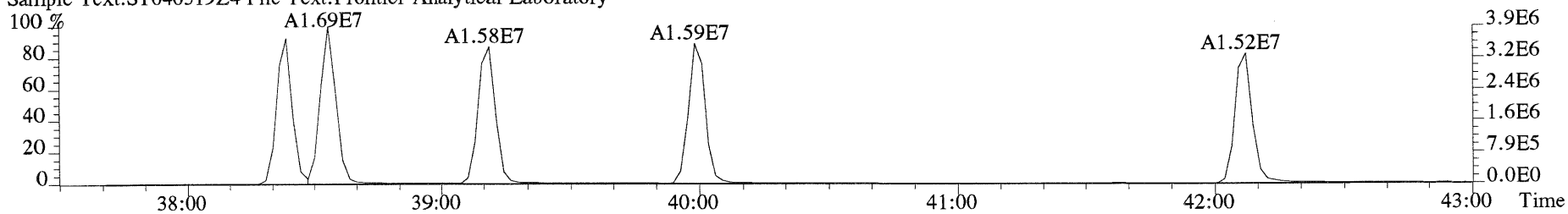
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



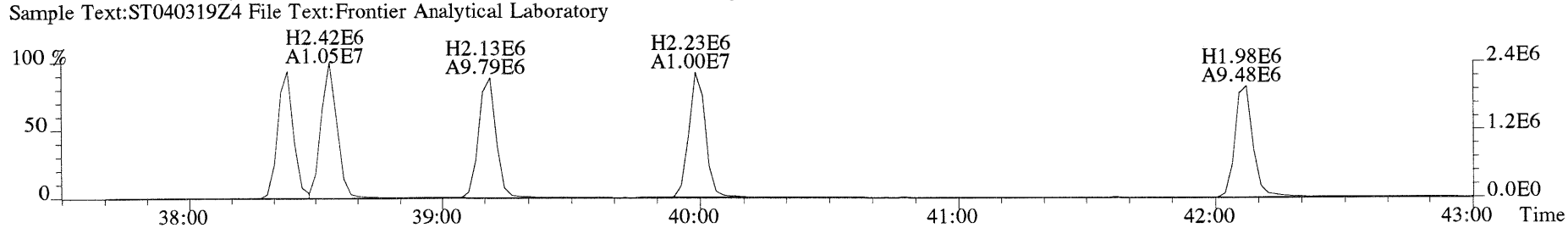
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



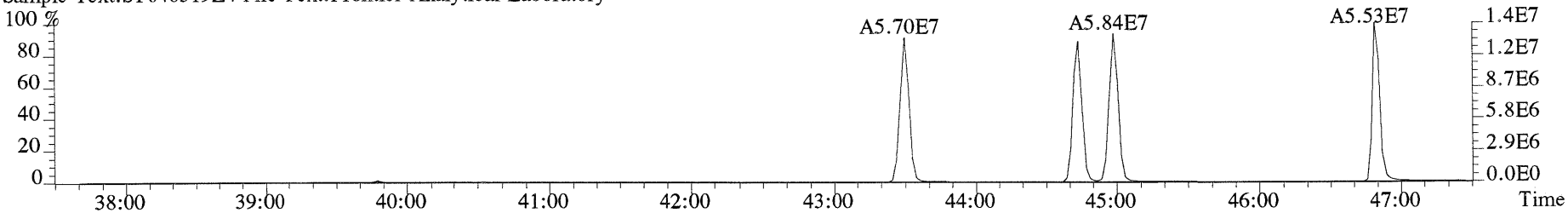
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



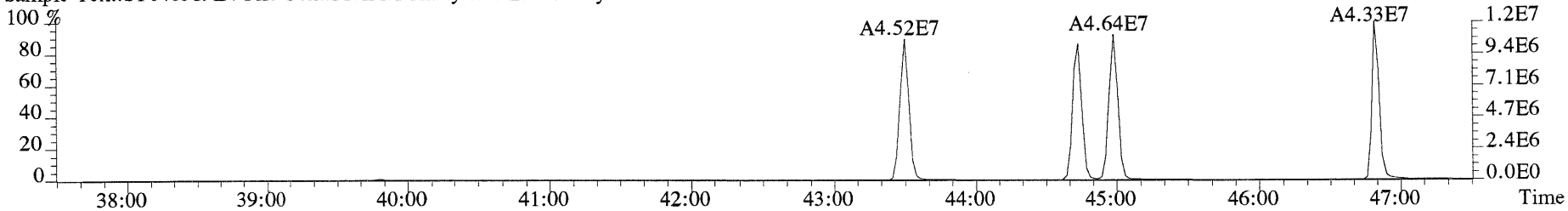
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



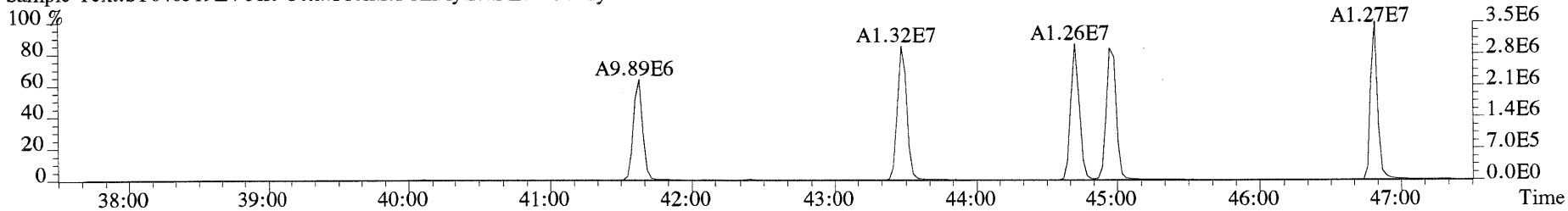
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



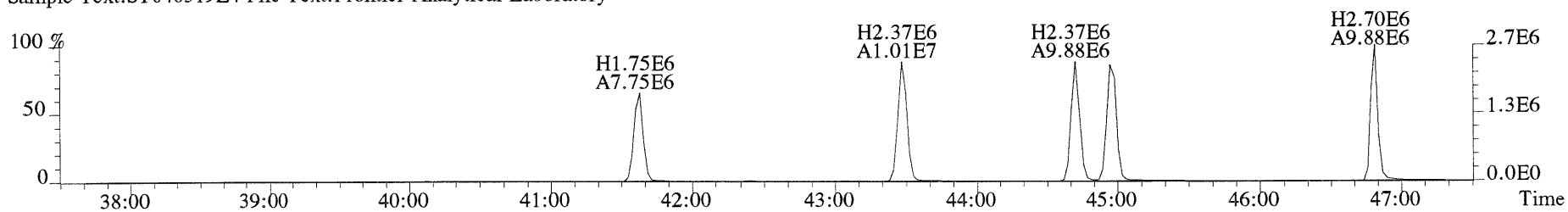
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



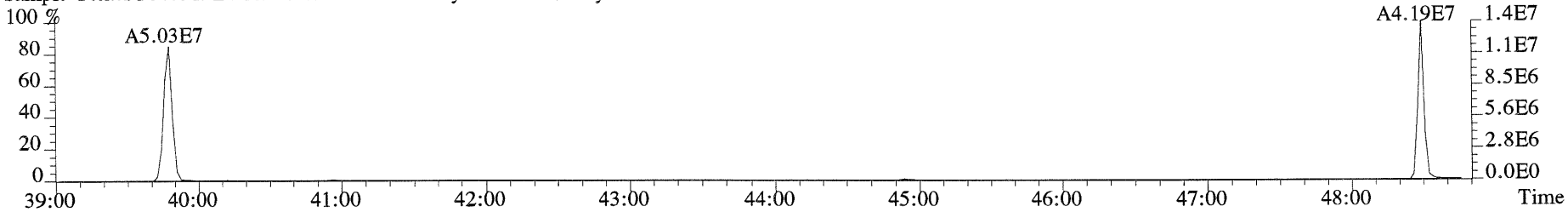
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



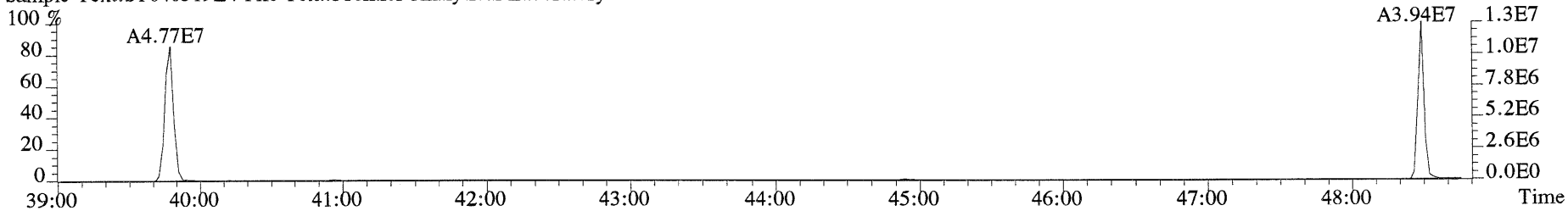
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



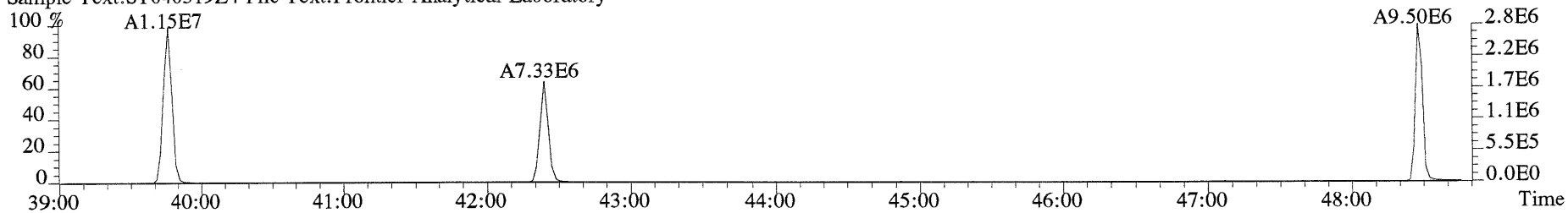
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



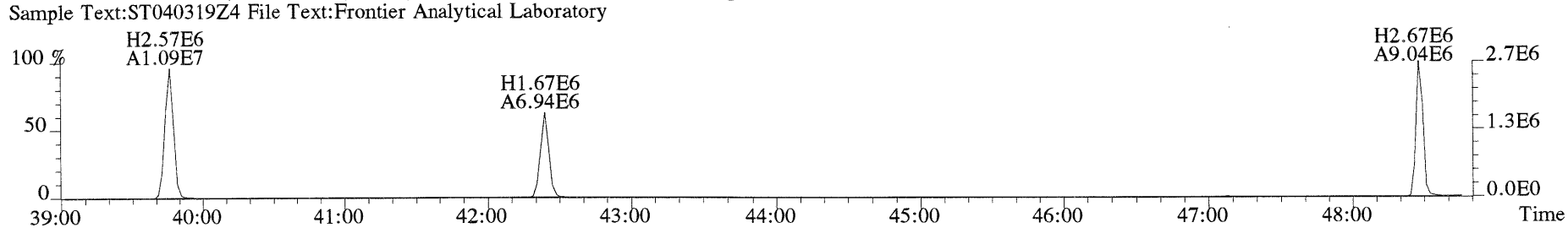
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



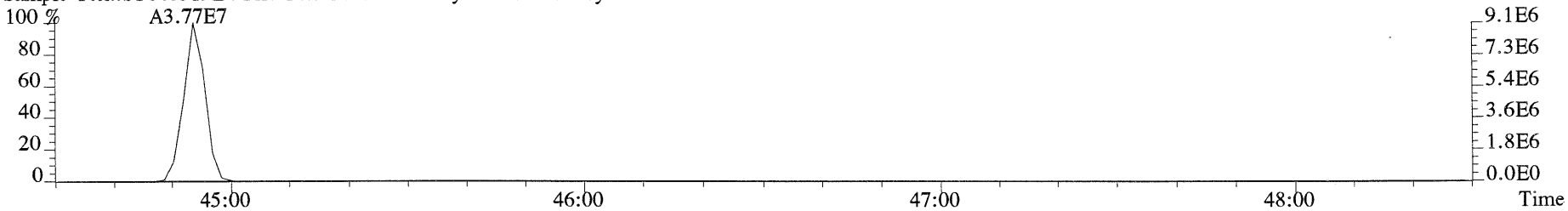
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



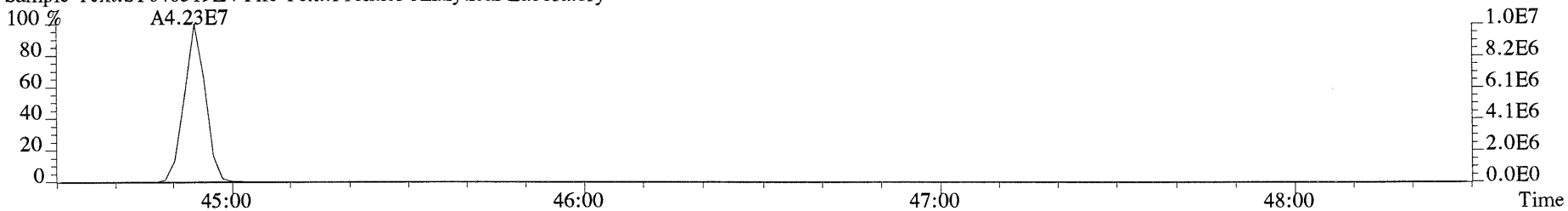
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



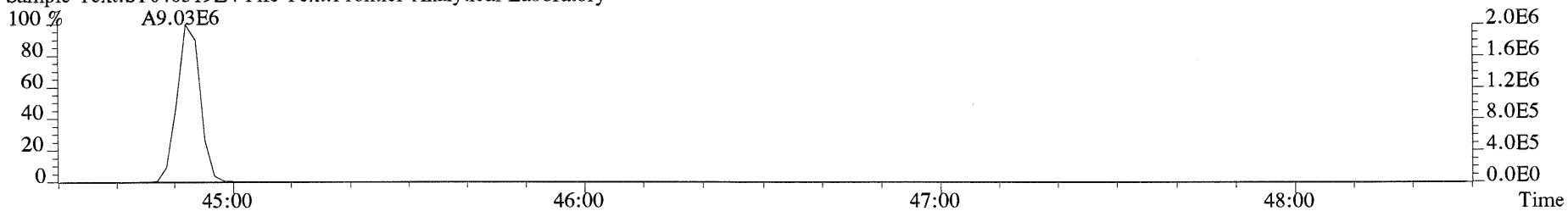
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



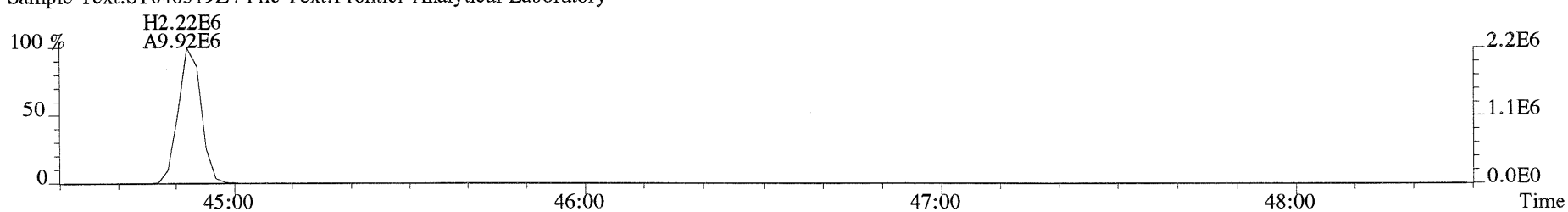
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



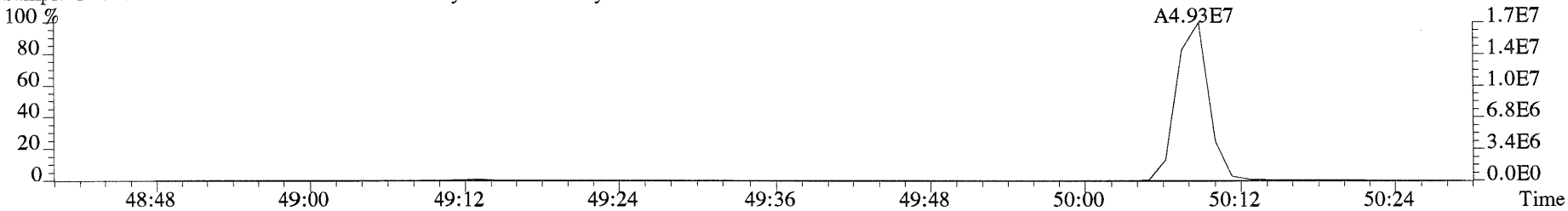
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



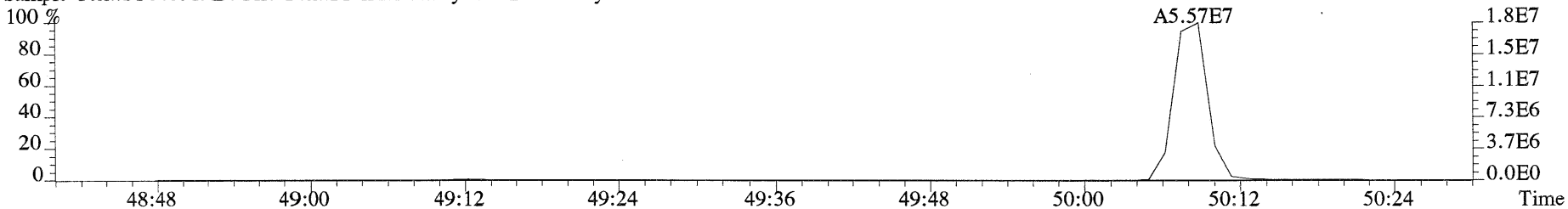
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



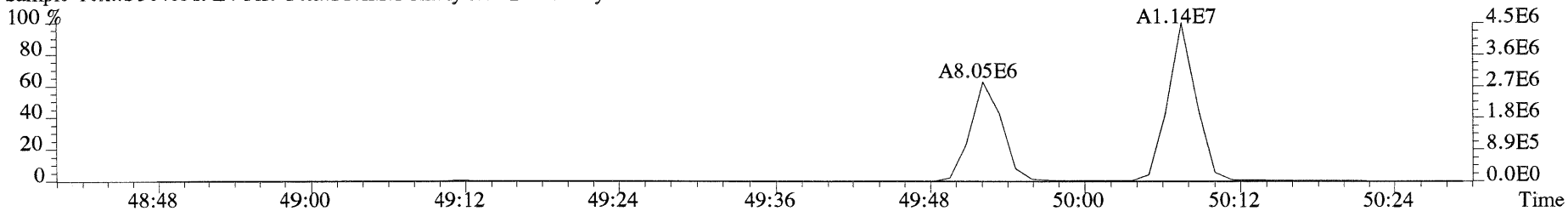
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



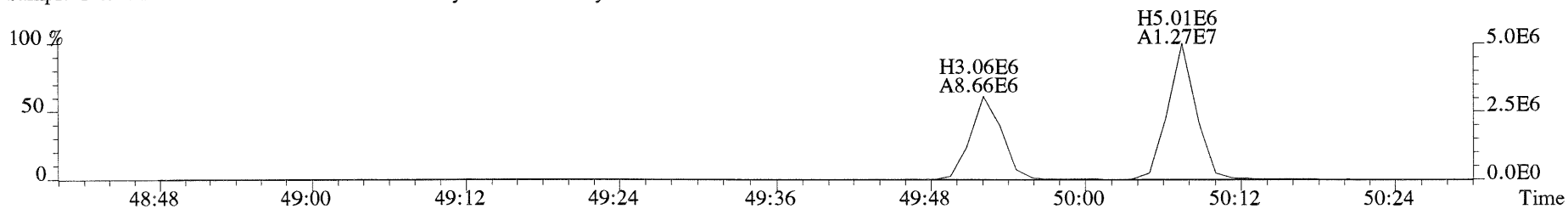
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



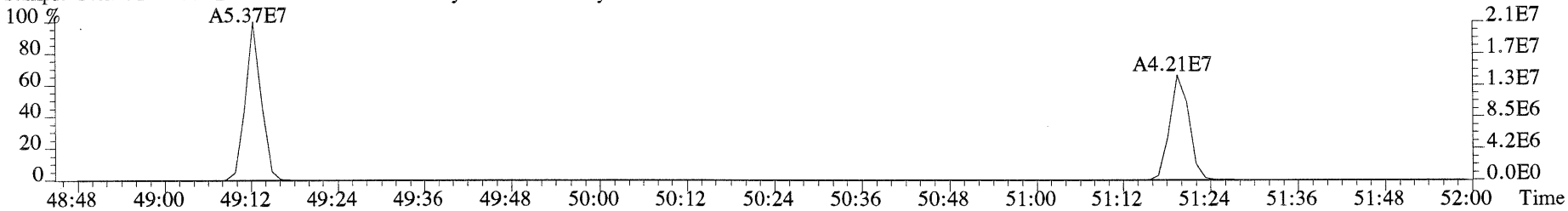
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



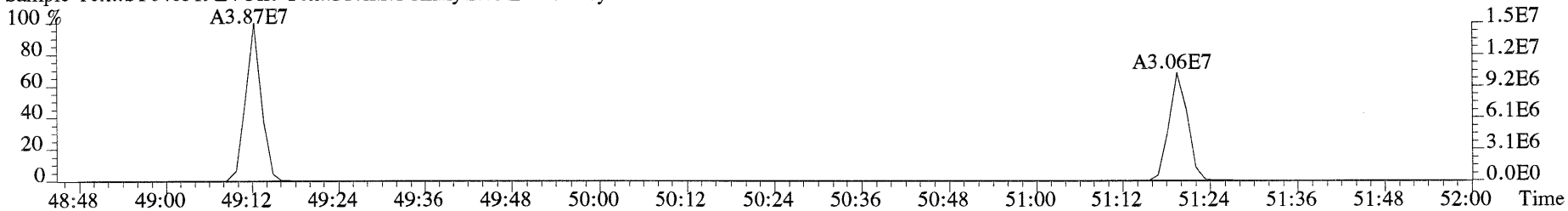
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



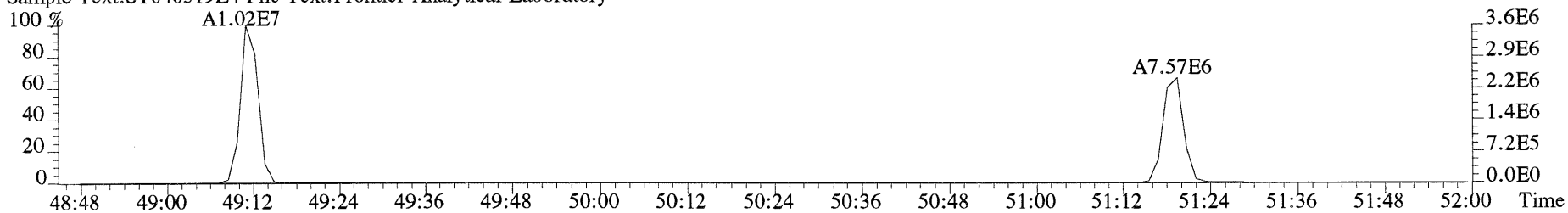
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



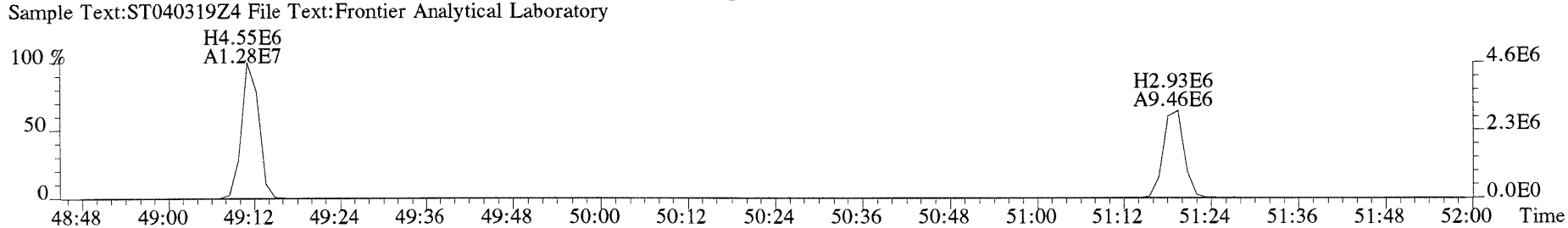
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



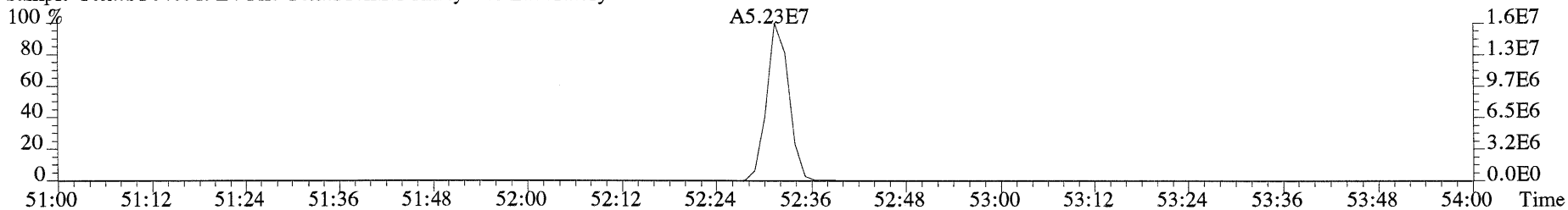
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



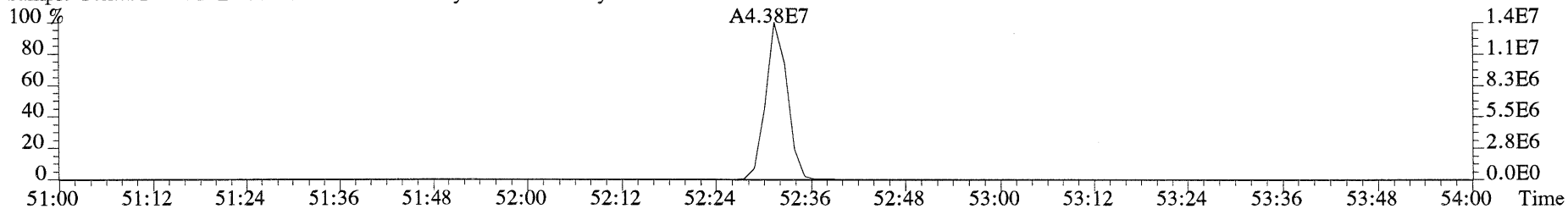
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



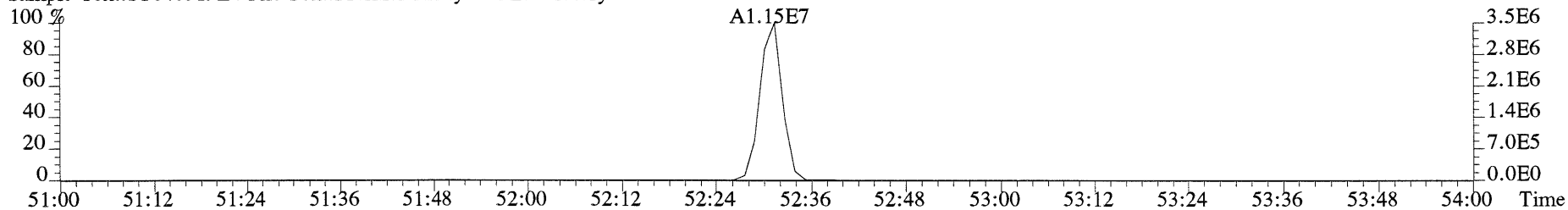
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



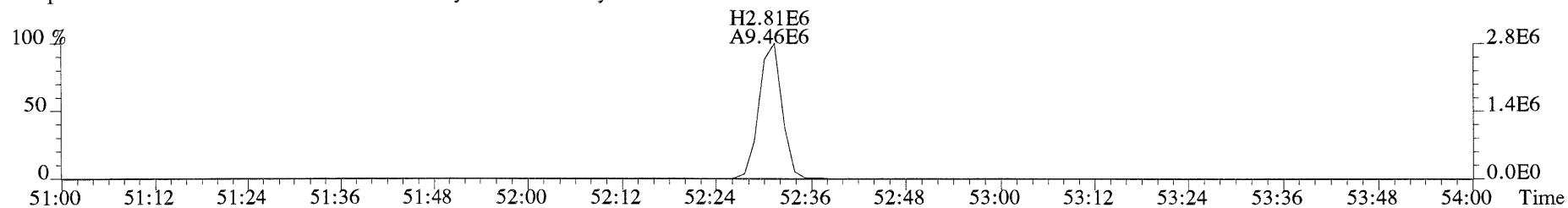
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



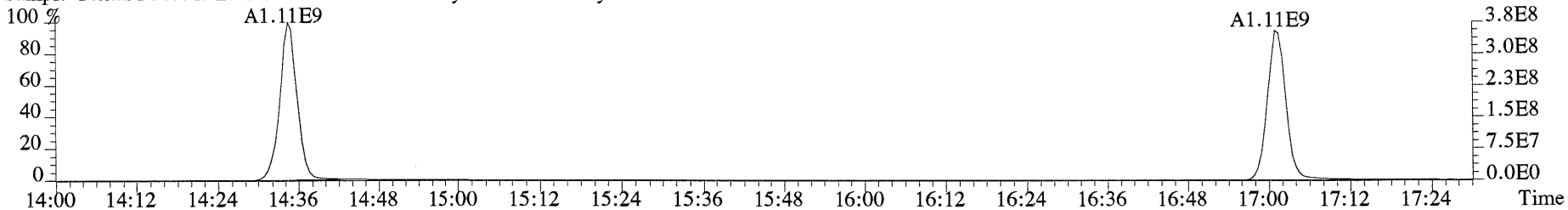
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



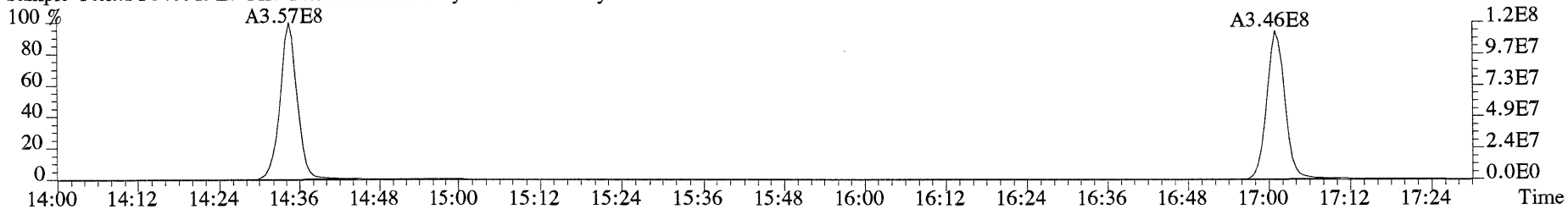
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



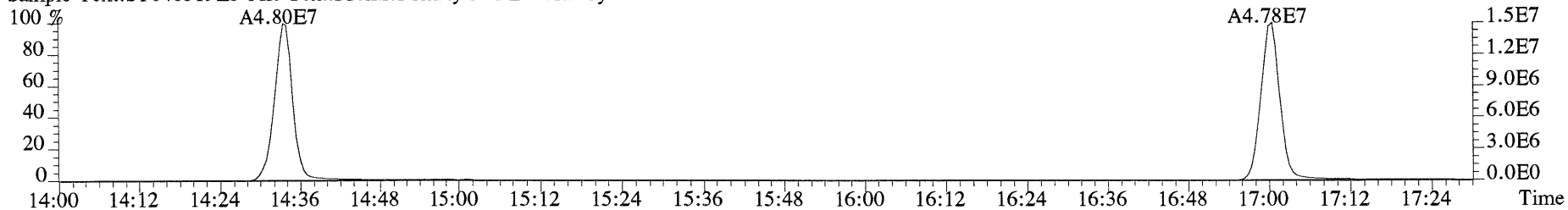
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



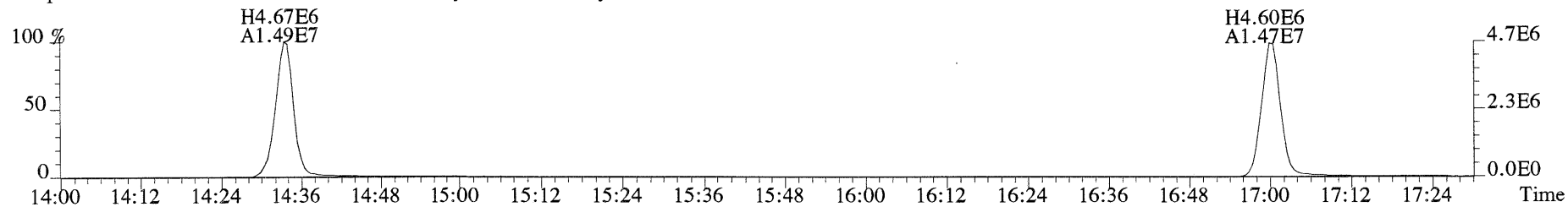
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



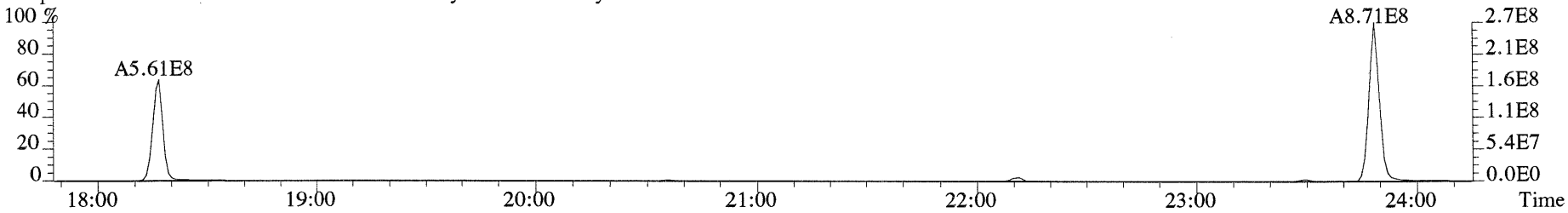
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



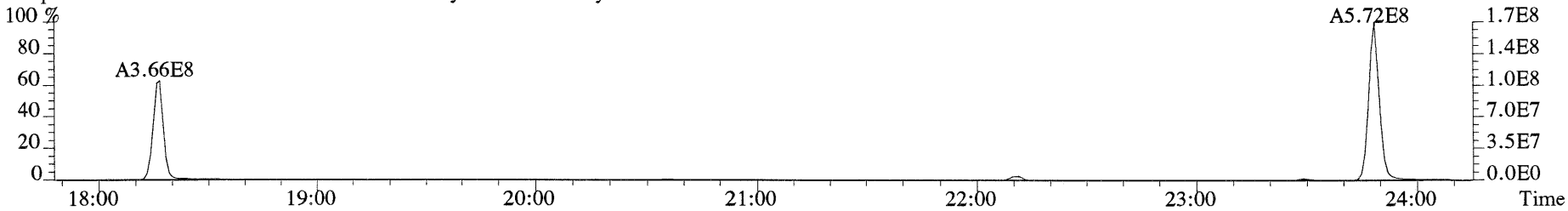
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



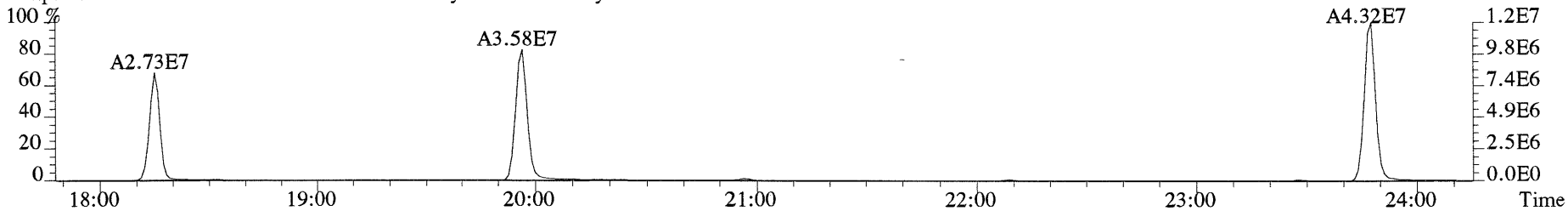
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



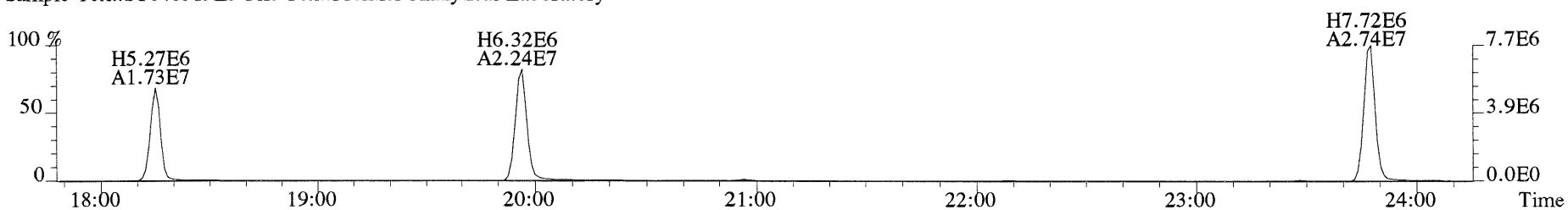
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



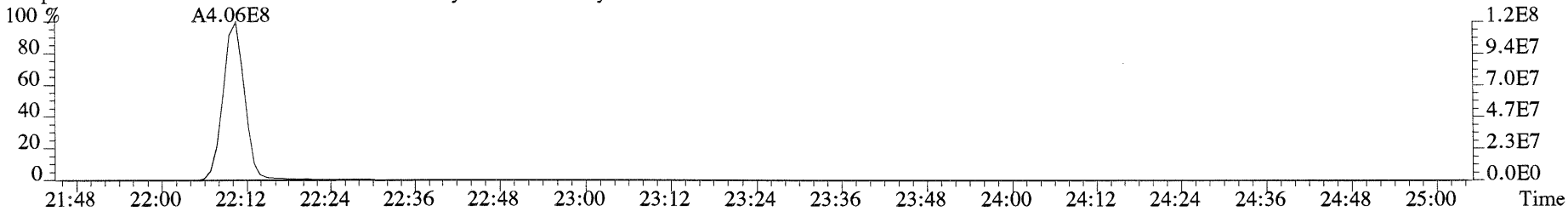
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



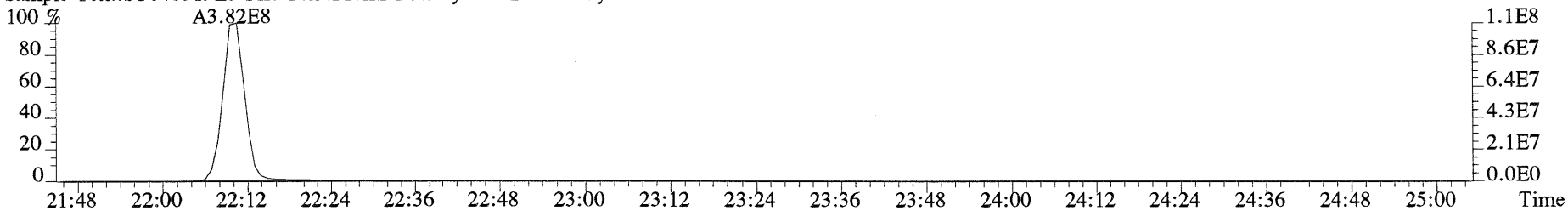
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



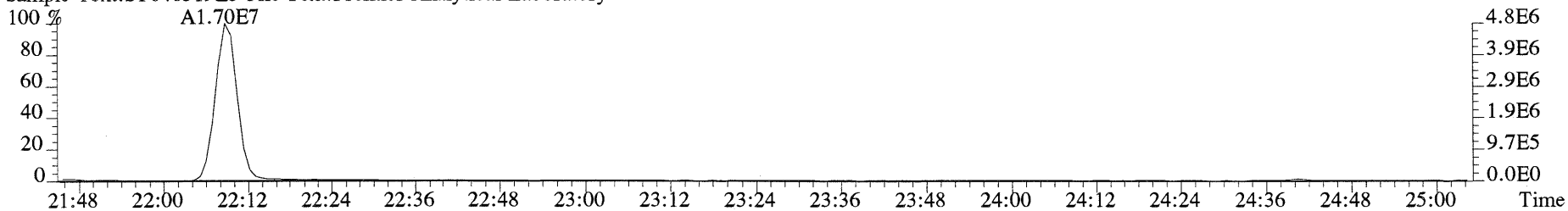
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



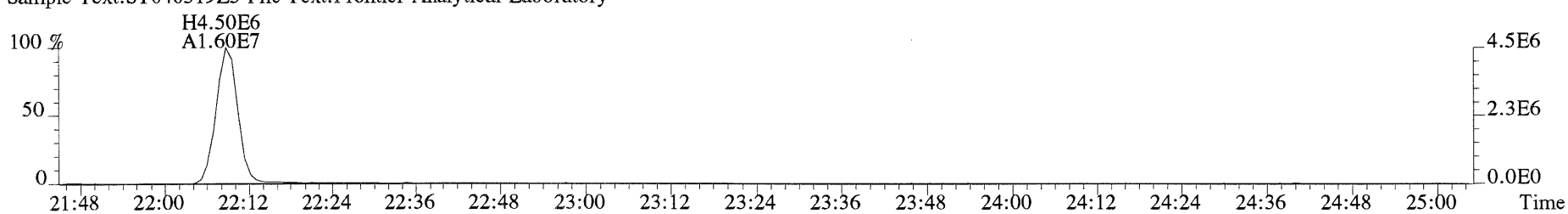
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



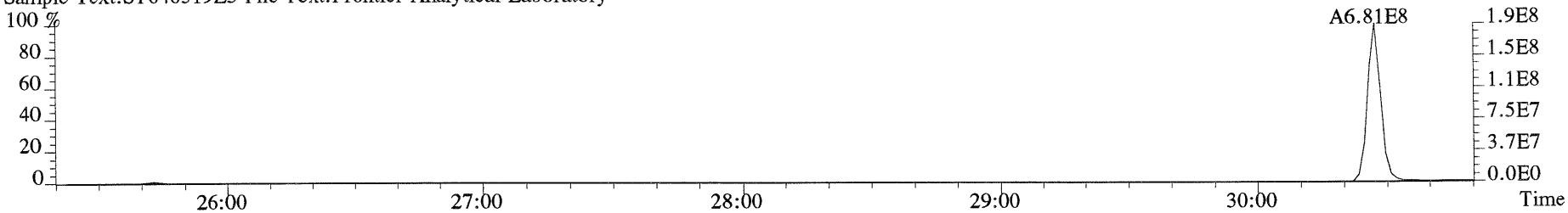
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



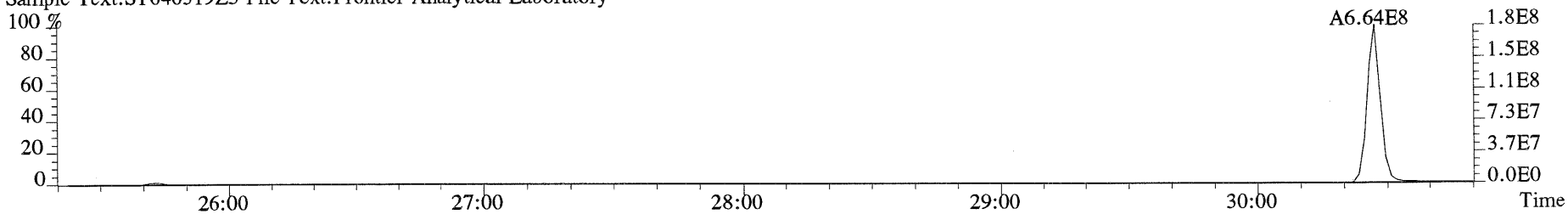
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



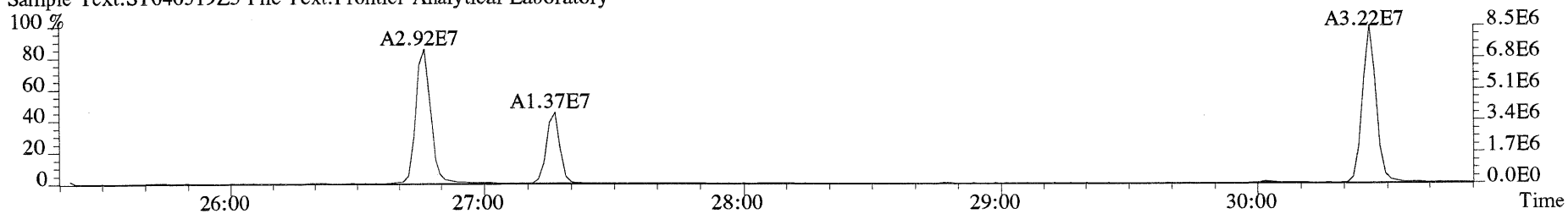
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



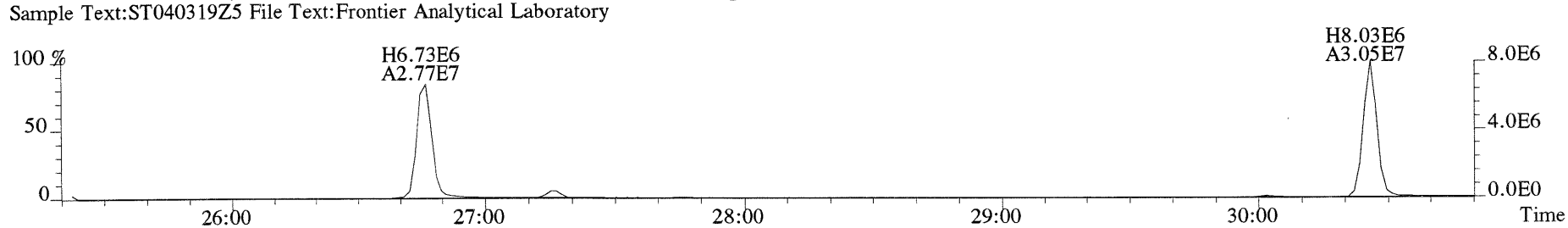
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



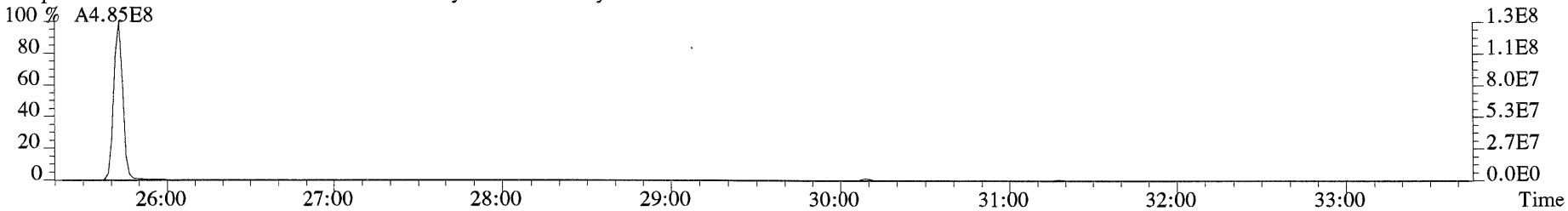
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



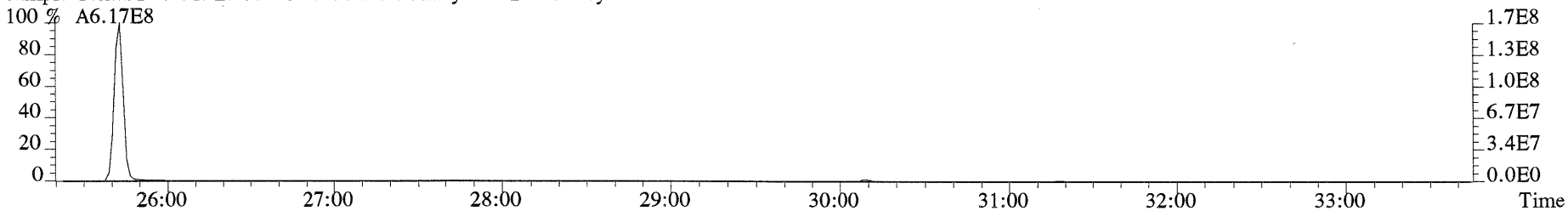
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



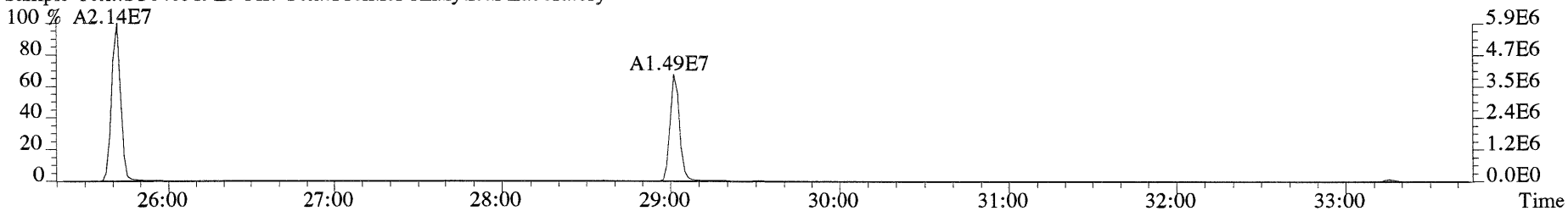
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



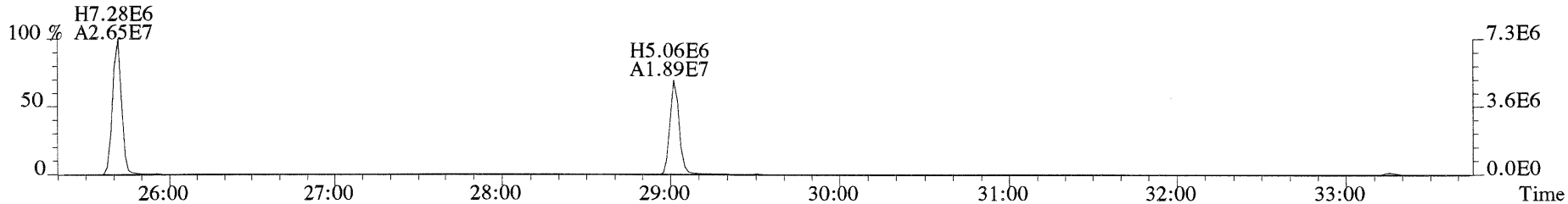
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



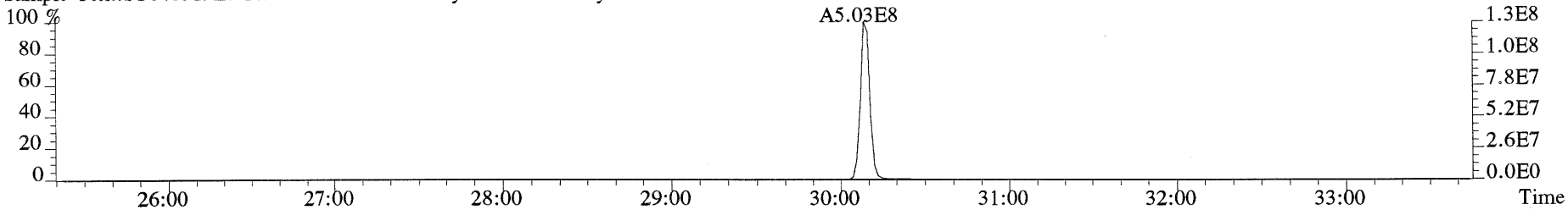
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



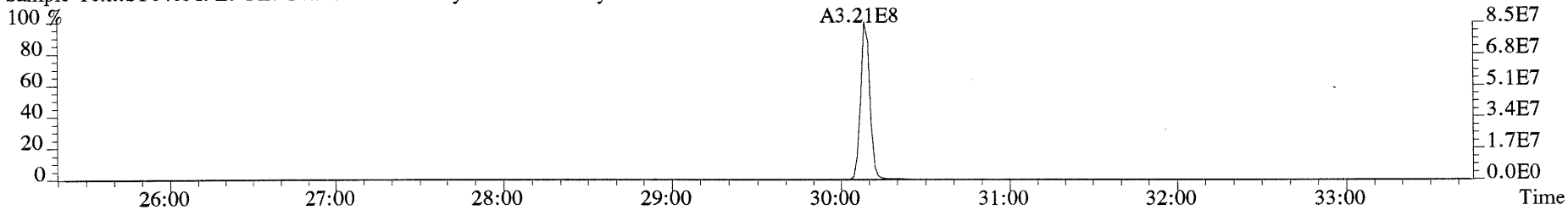
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



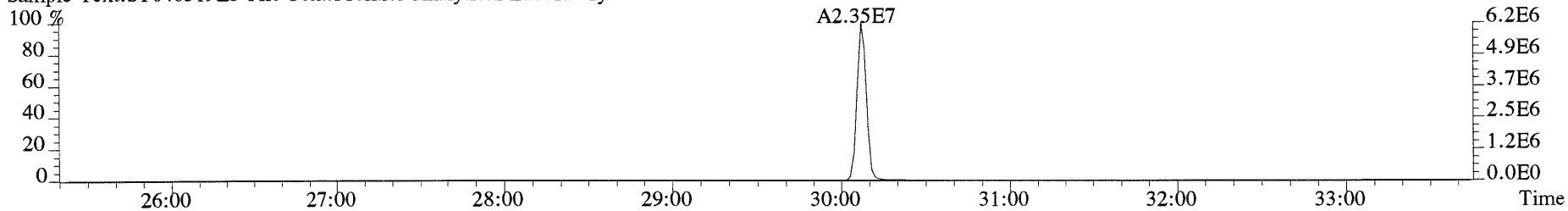
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



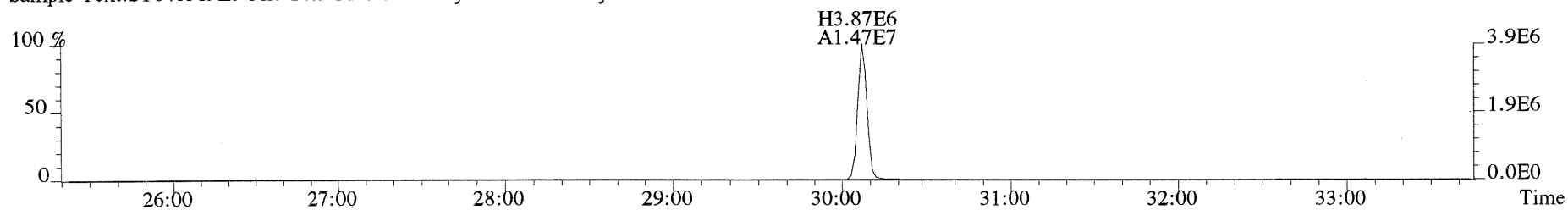
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



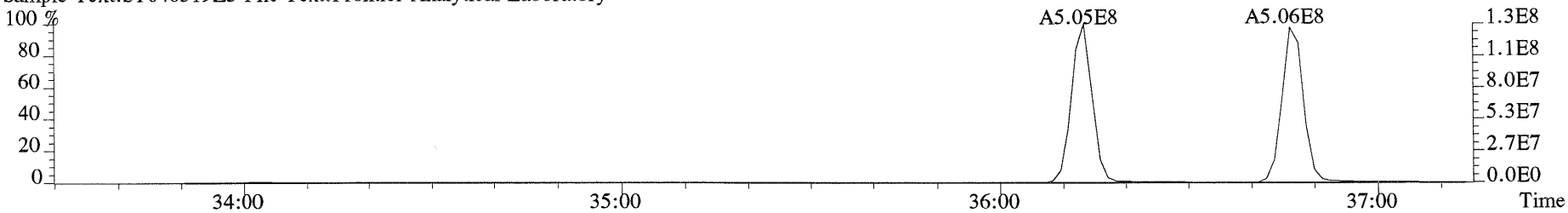
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



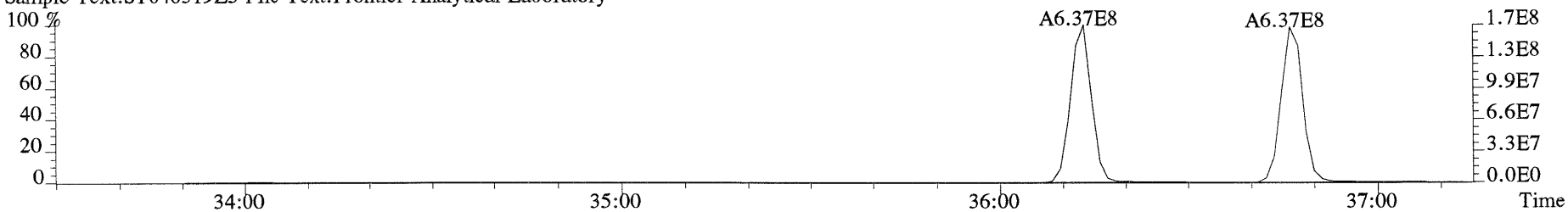
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



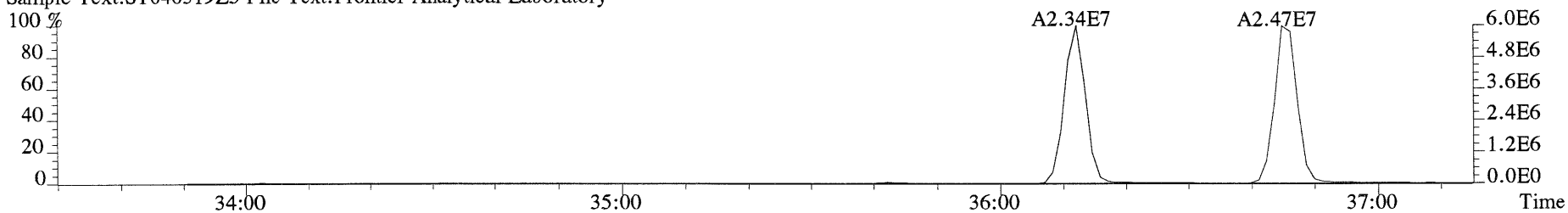
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



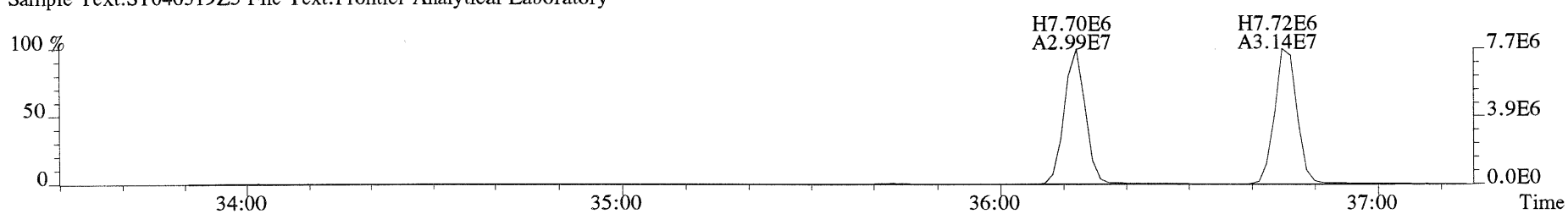
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



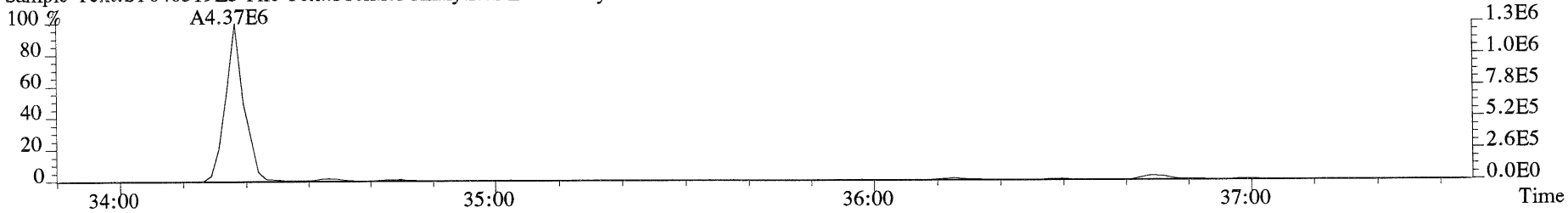
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



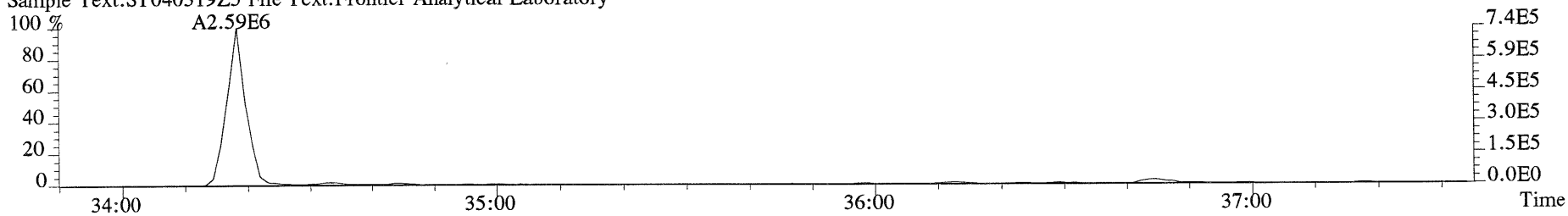
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



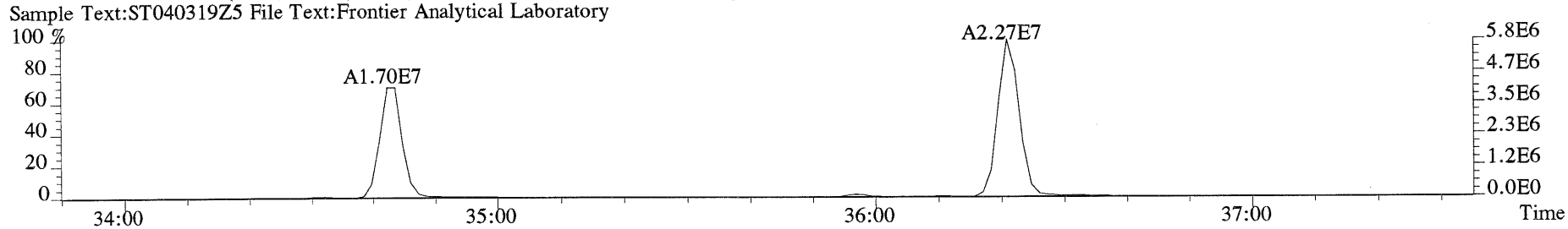
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



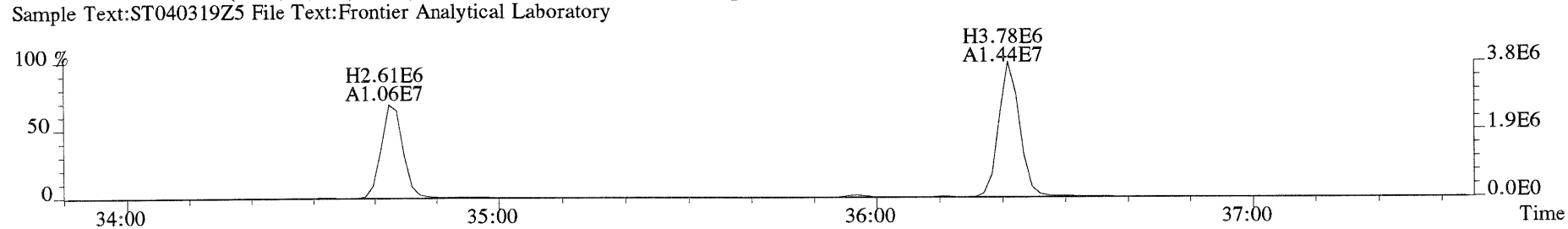
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



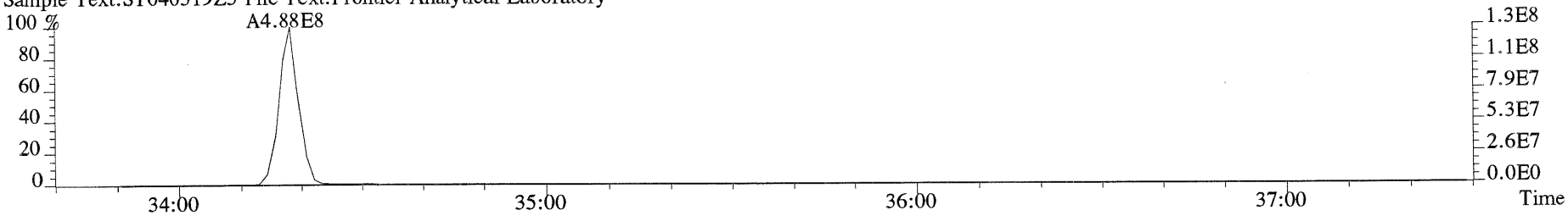
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



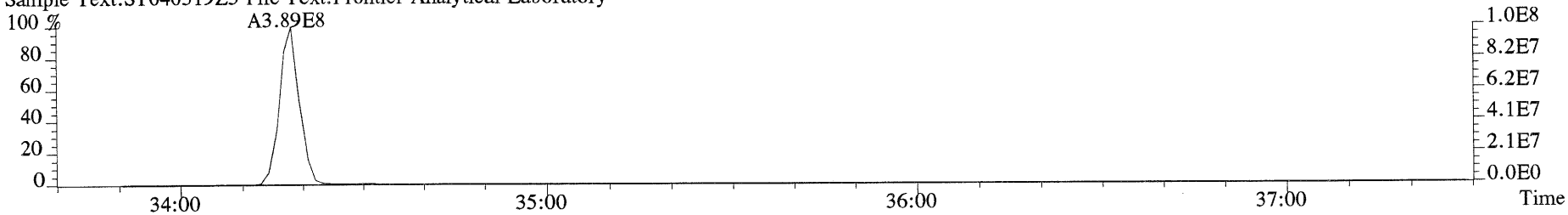
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



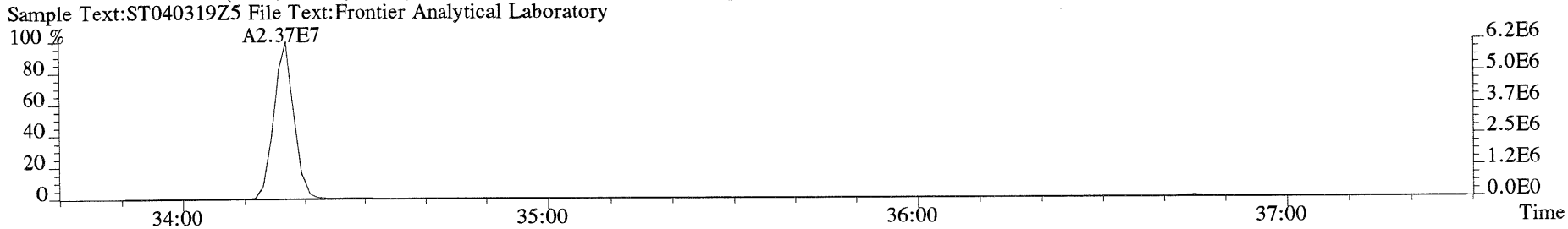
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



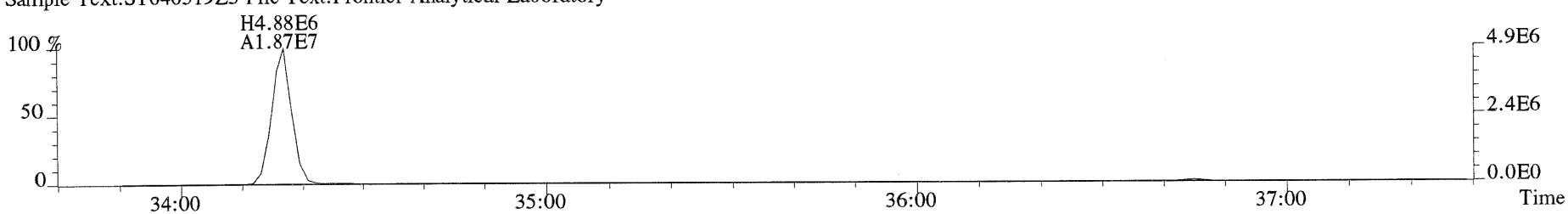
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



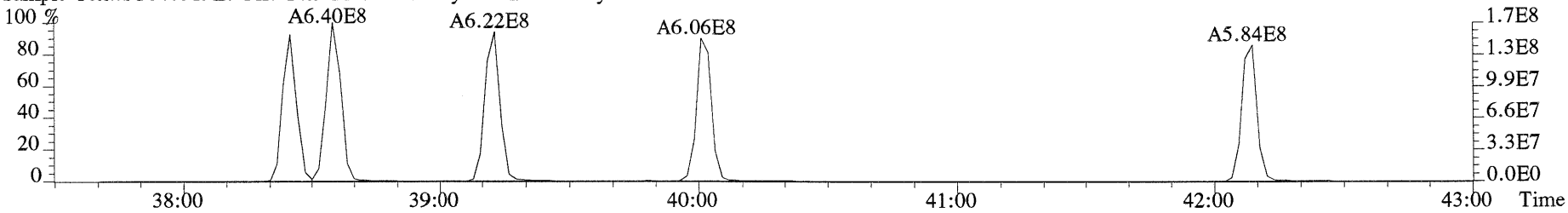
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



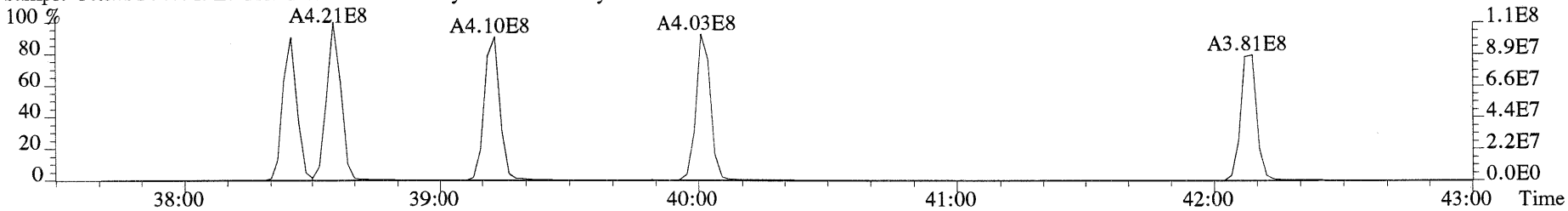
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



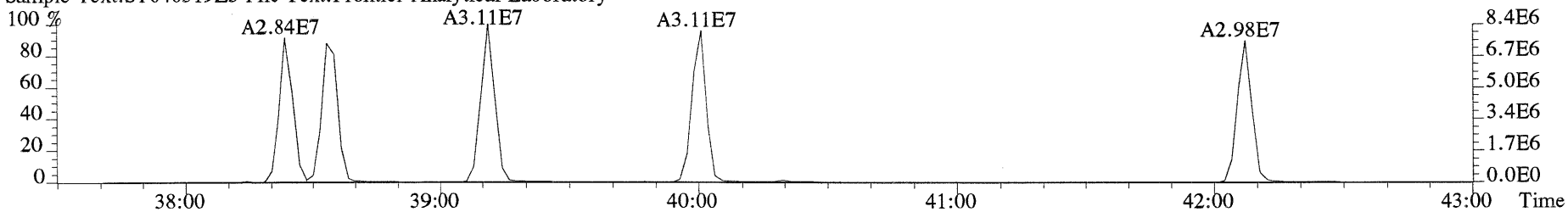
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



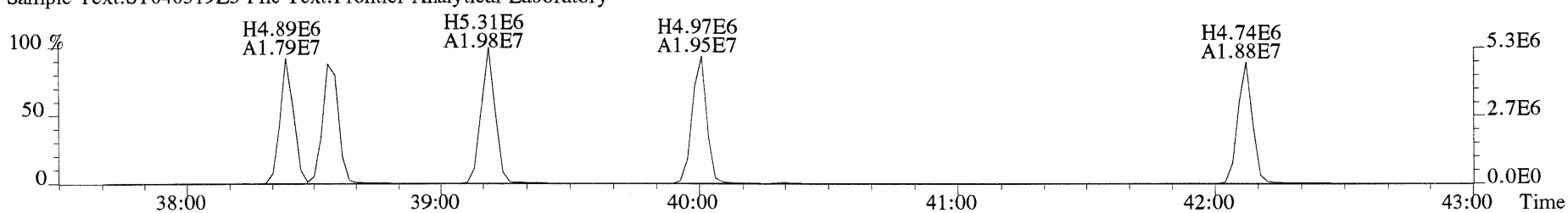
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



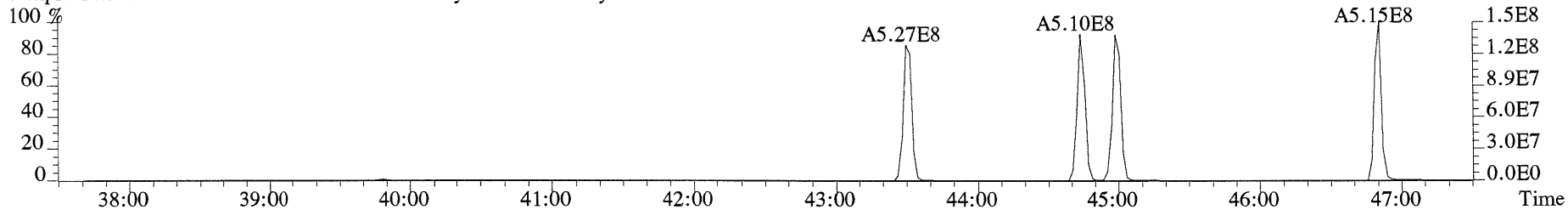
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



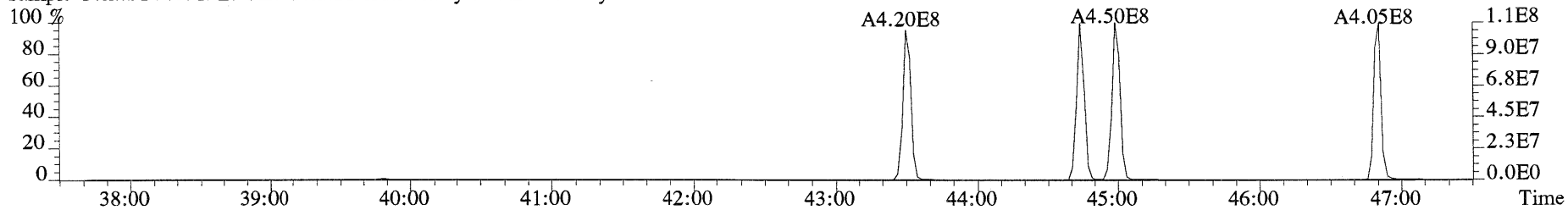
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



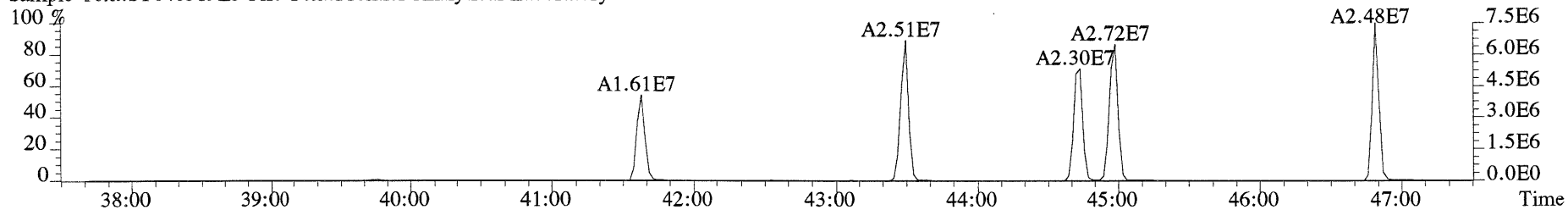
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



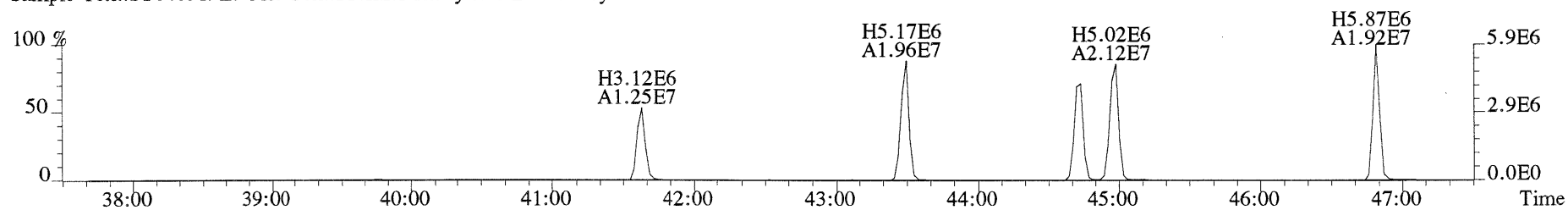
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



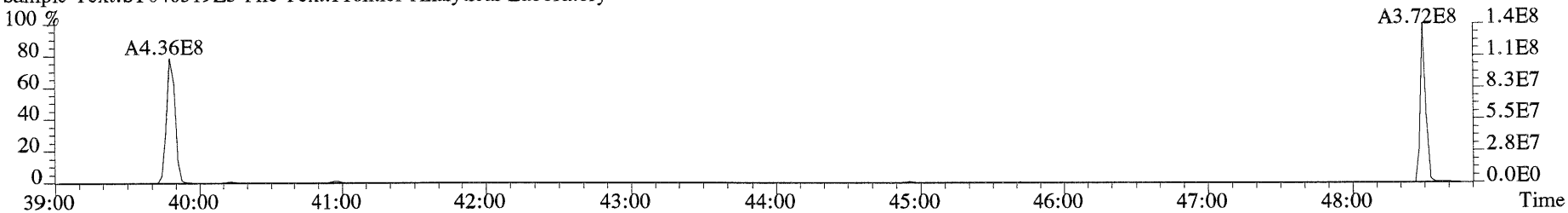
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



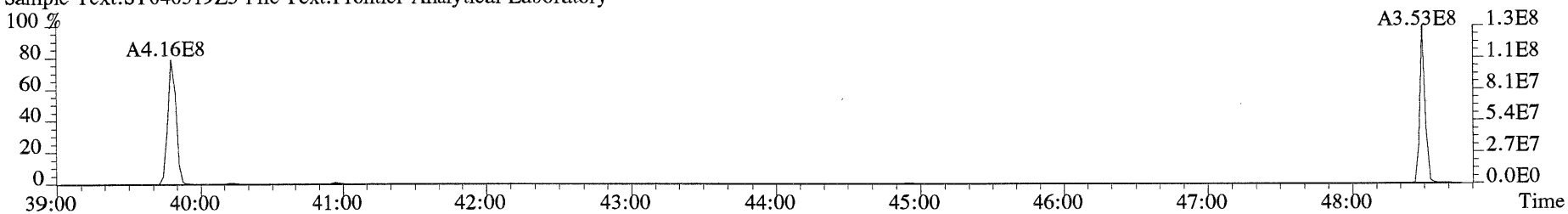
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



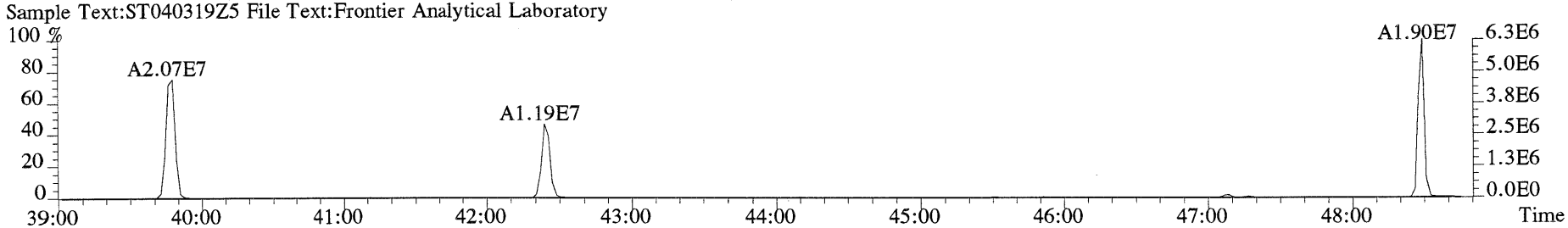
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



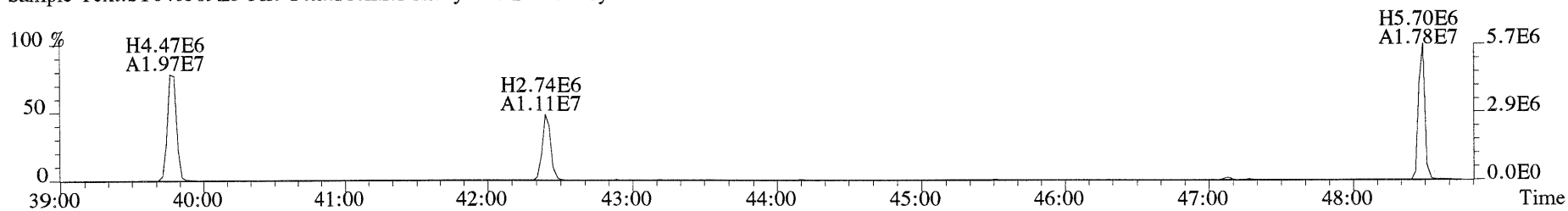
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



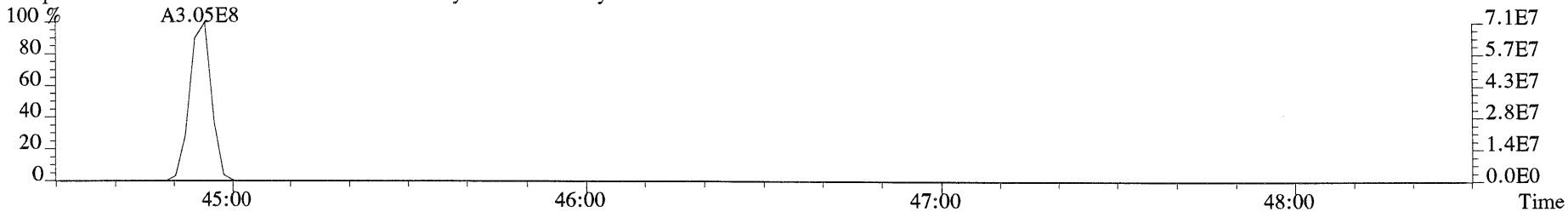
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



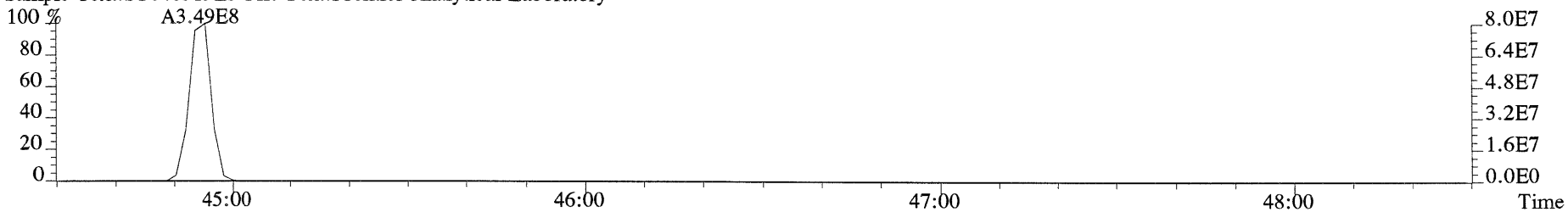
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



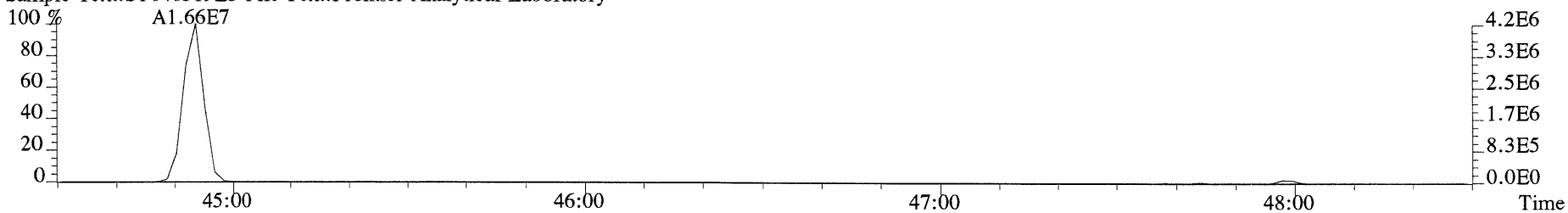
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



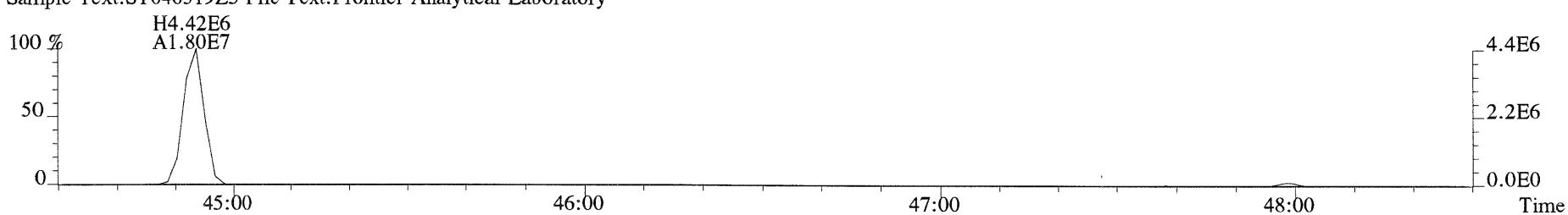
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



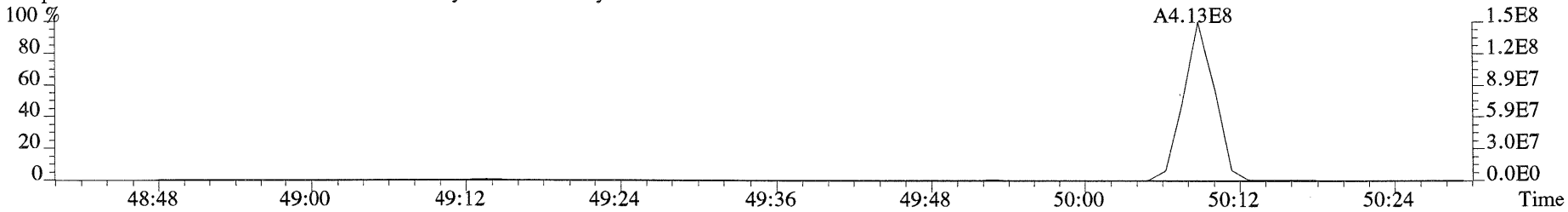
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



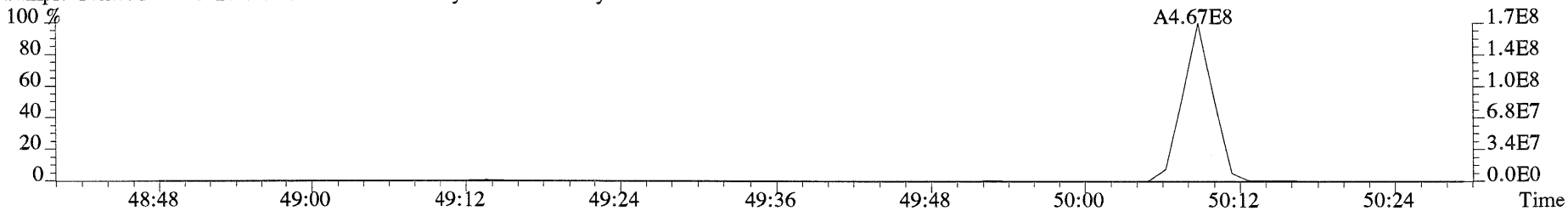
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



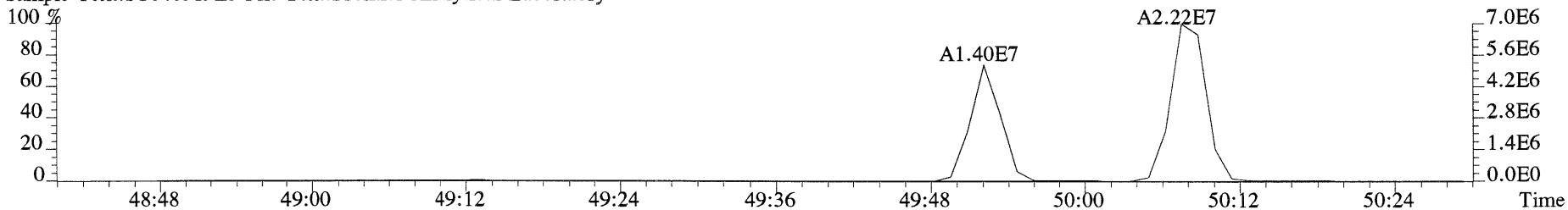
File:03APR19Z #1-272 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



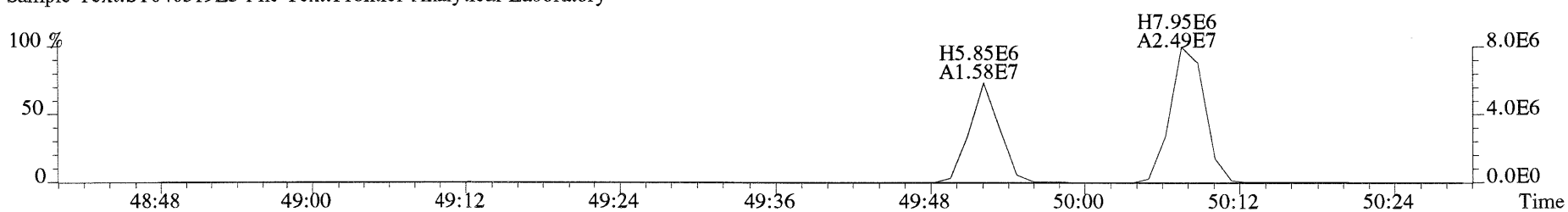
File:03APR19Z #1-273 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



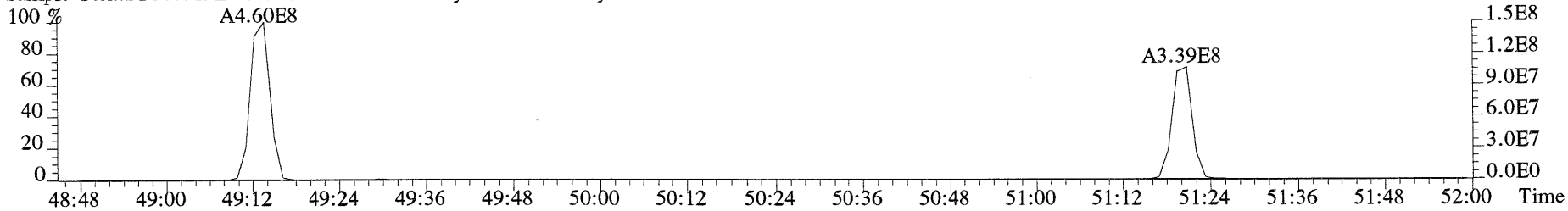
File:03APR19Z #1-273 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



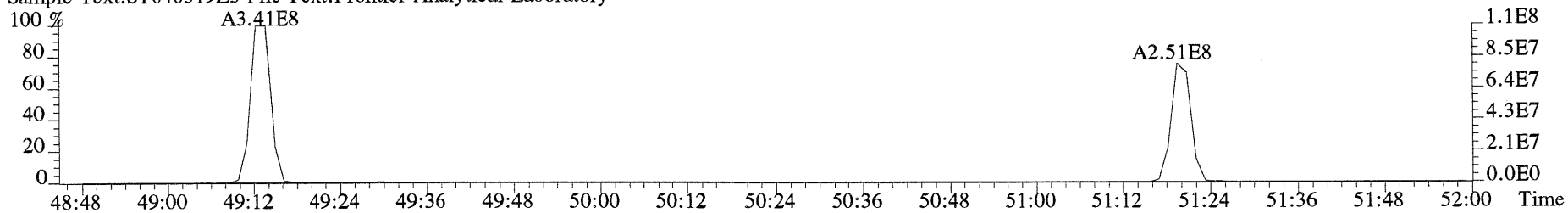
File:03APR19Z #1-273 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



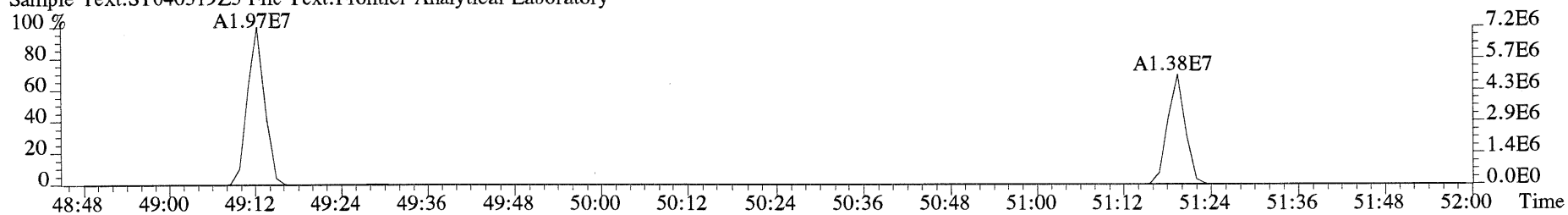
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



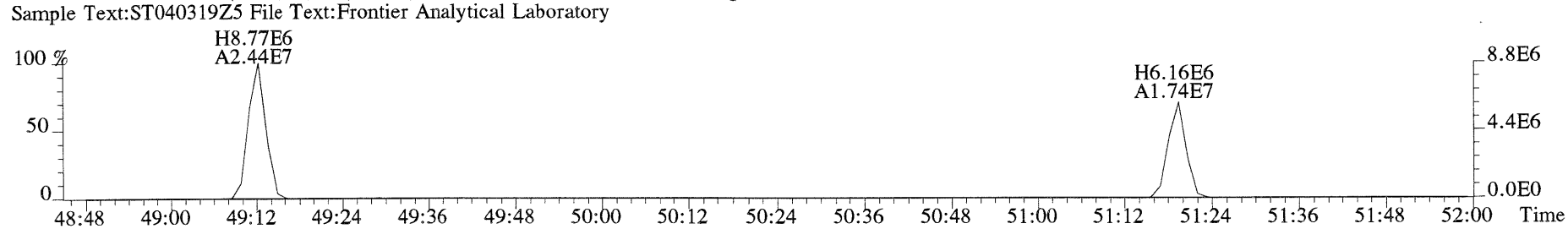
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



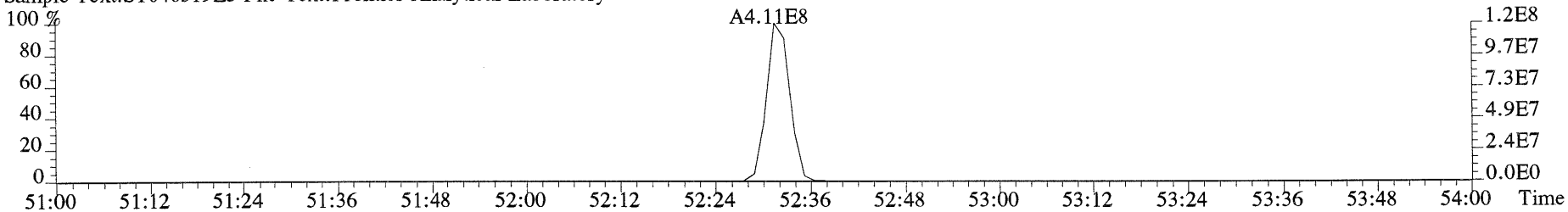
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



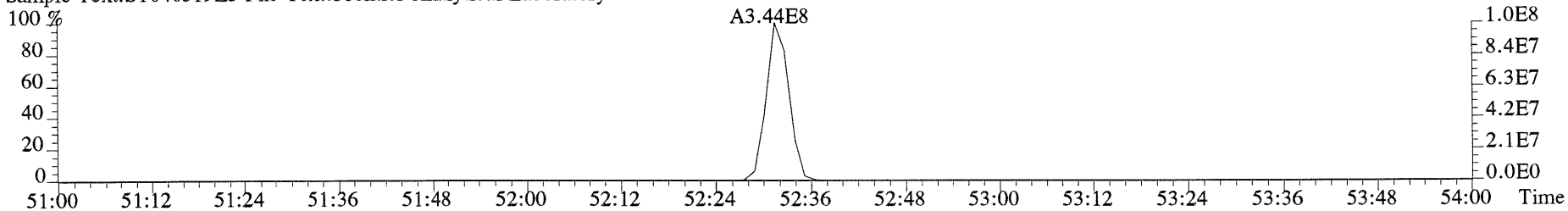
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



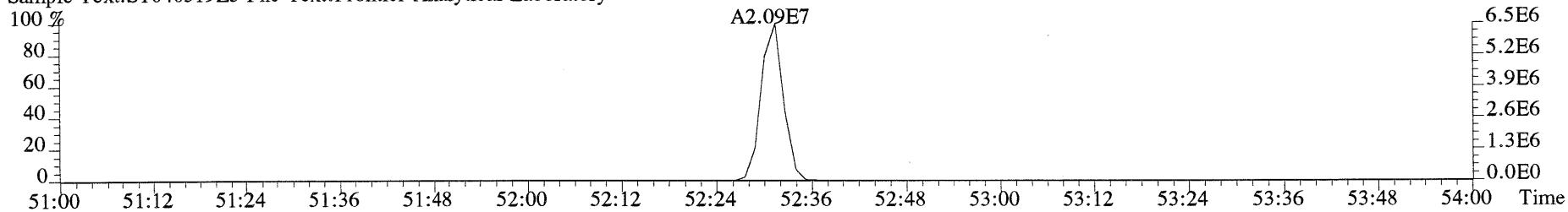
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



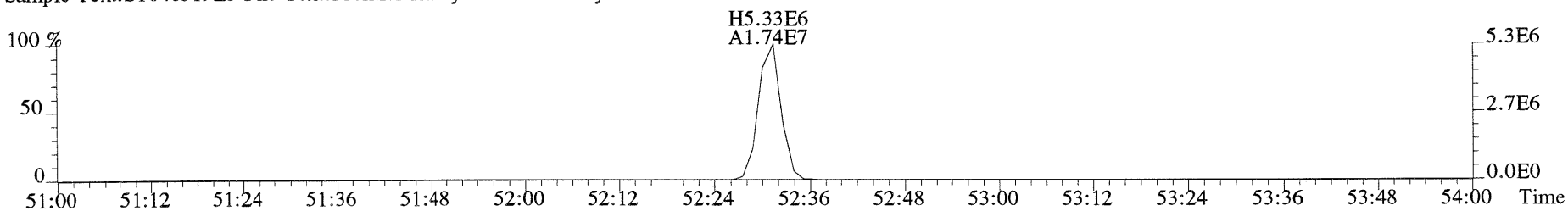
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



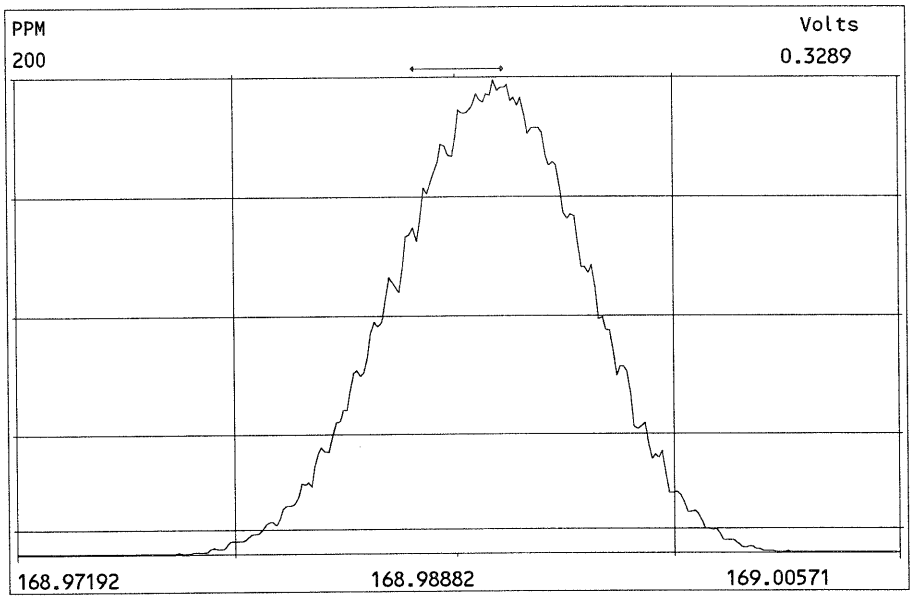
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory

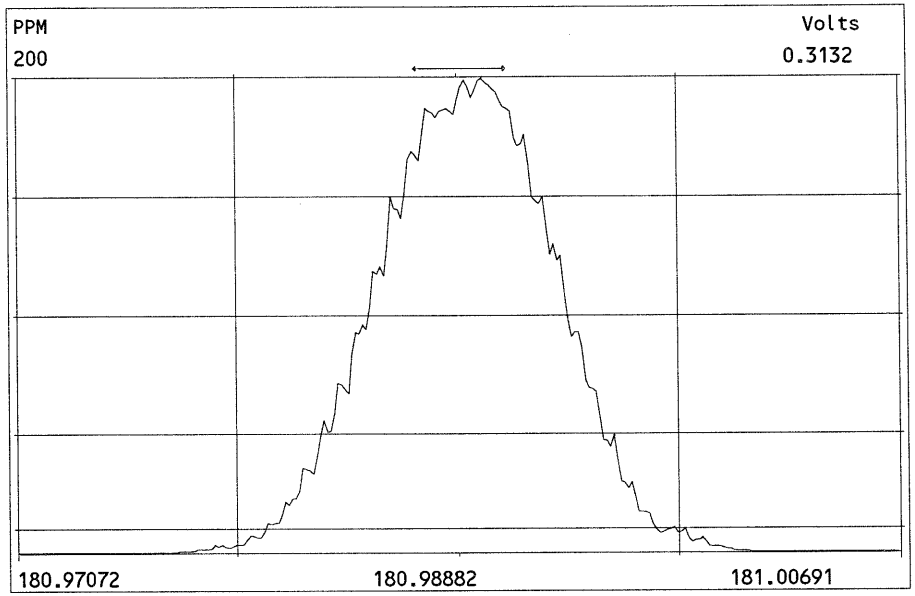


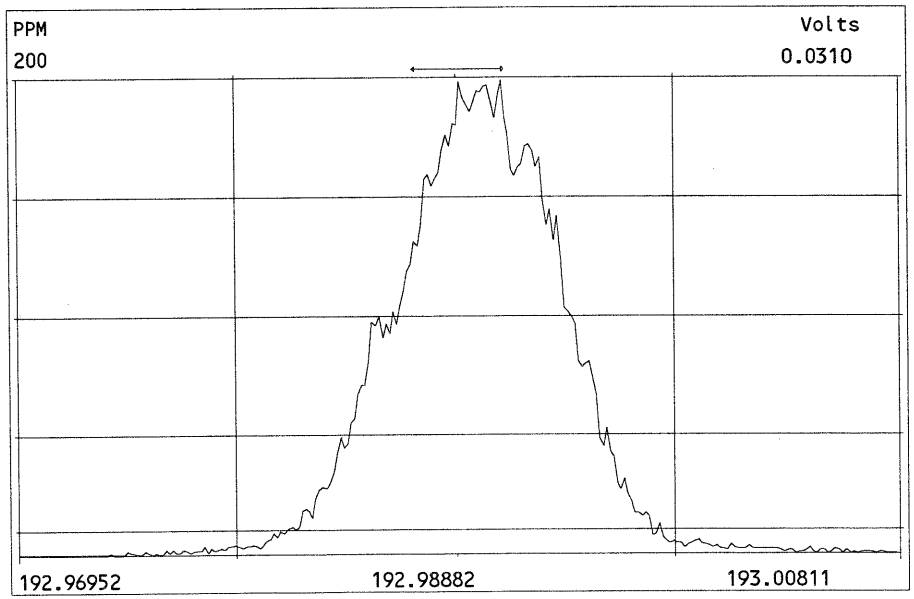
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory

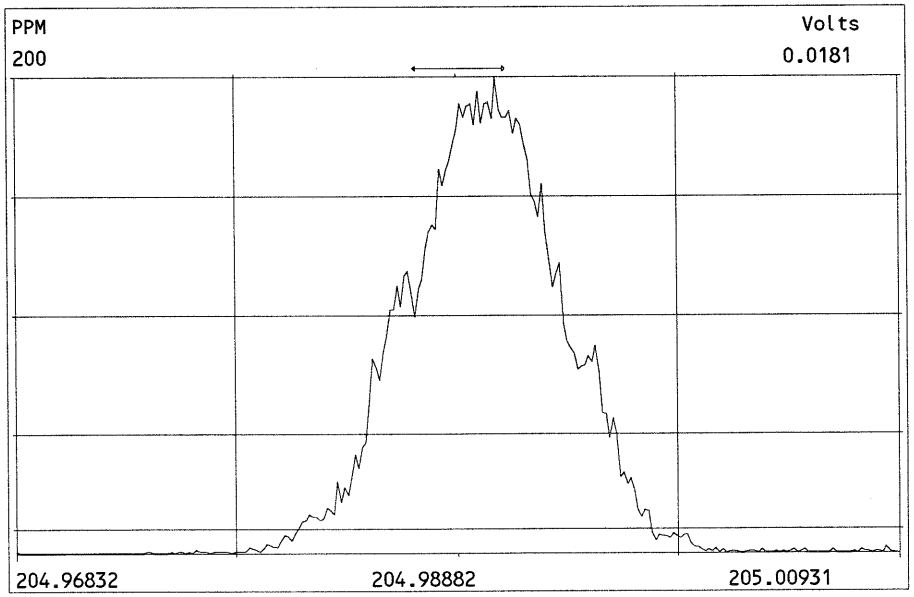


Peak Locate Examination: 3-APR-2019:21:48 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK 78

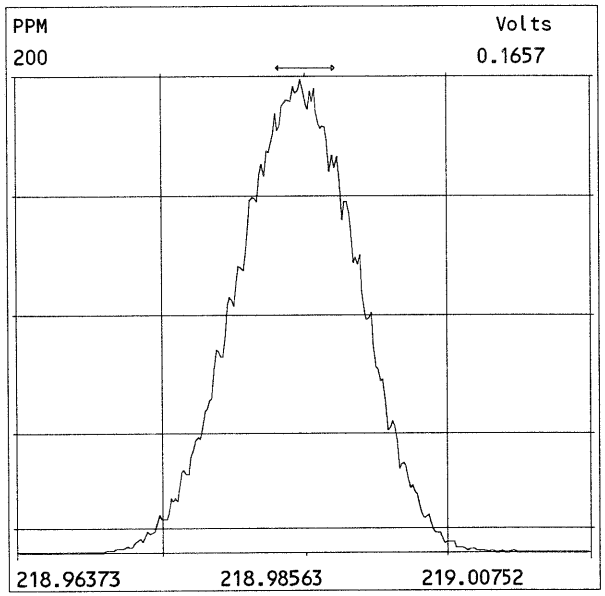


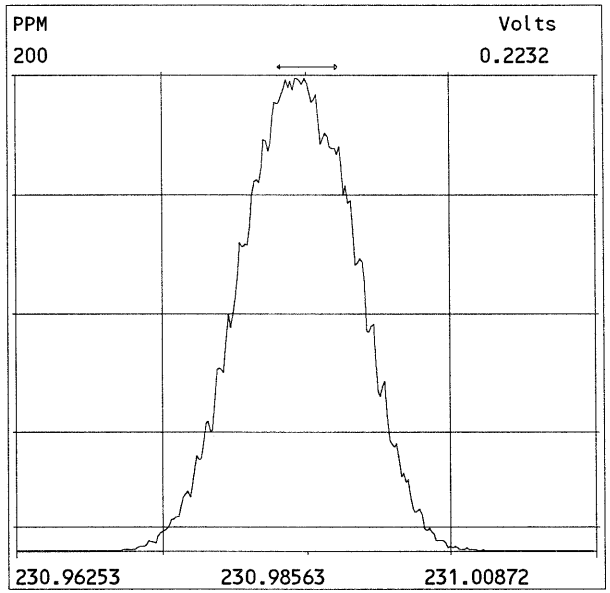


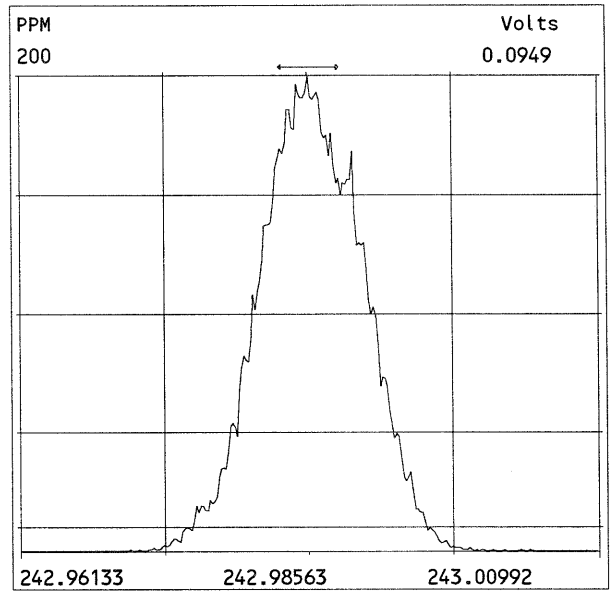


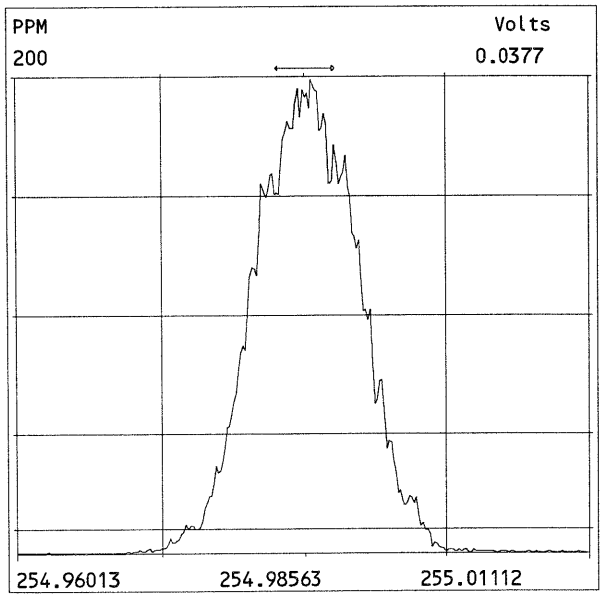


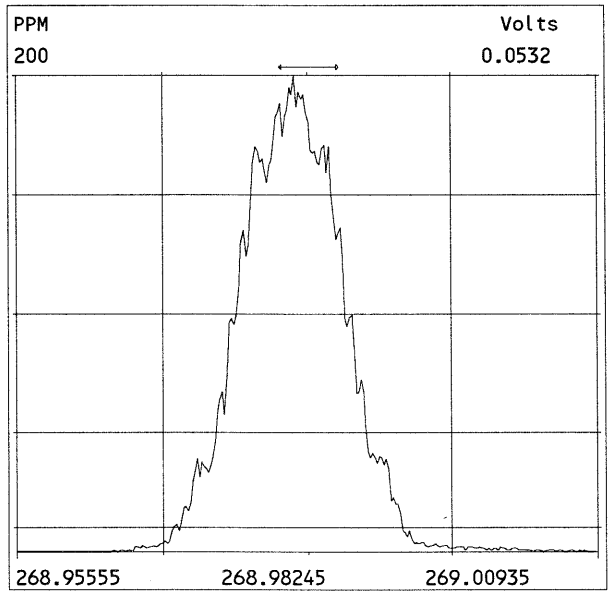
Peak Locate Examination: 3-APR-2019:21:50 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK 78

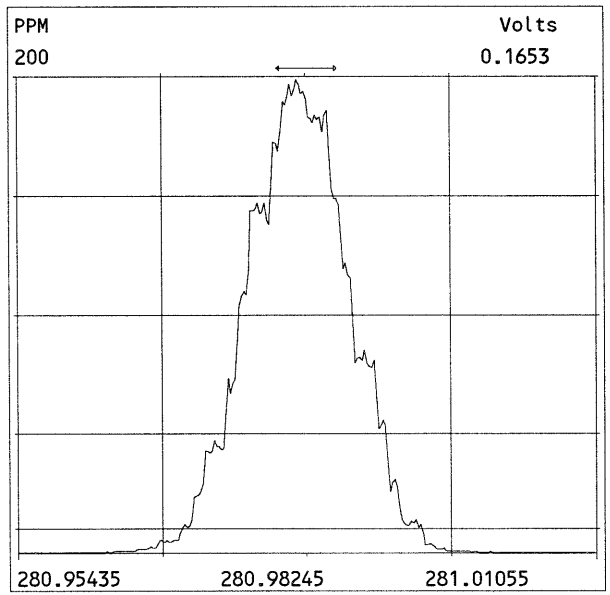




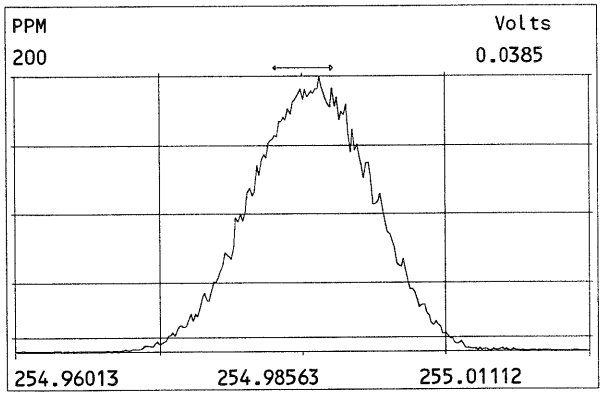


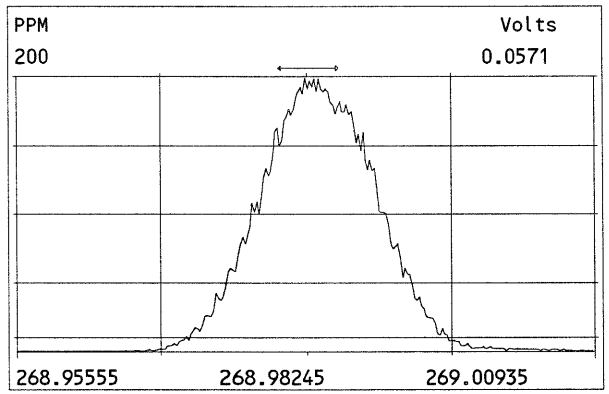


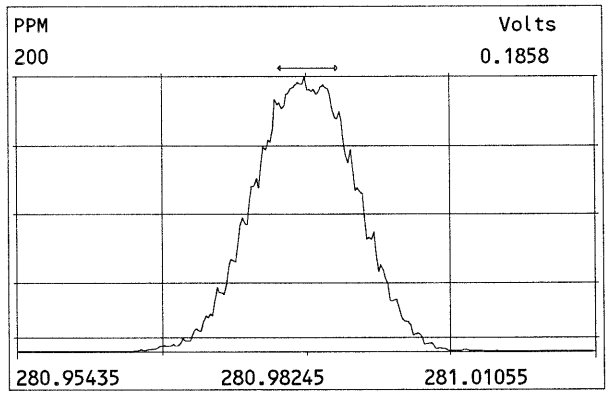


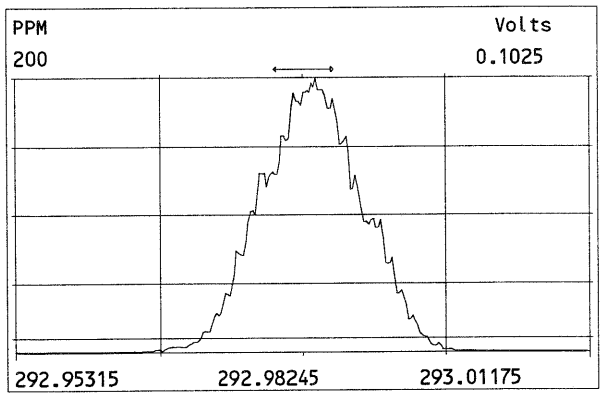


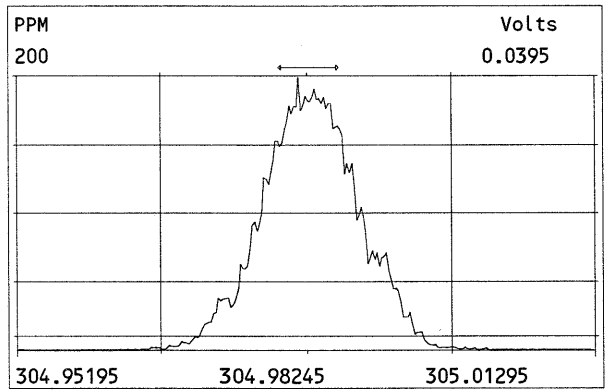
Peak Locate Examination: 3-APR-2019:21:53 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK78

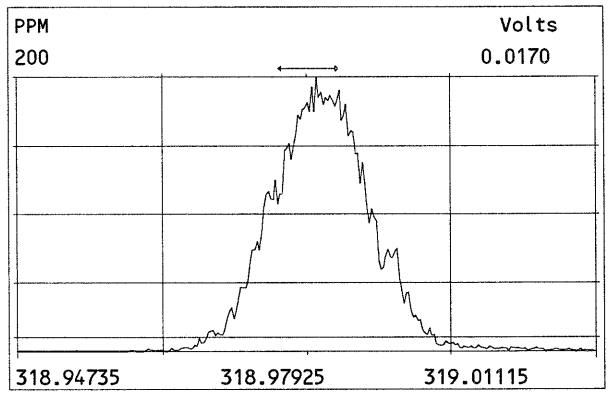


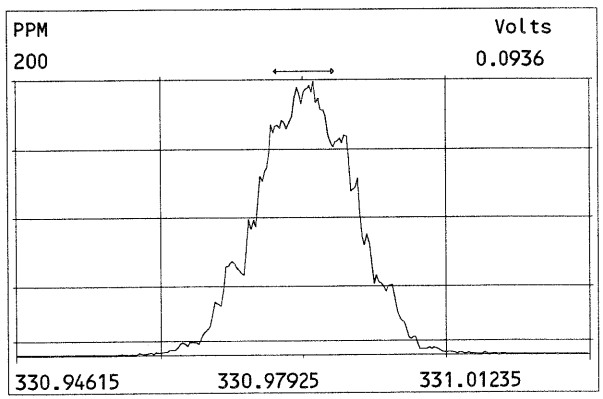


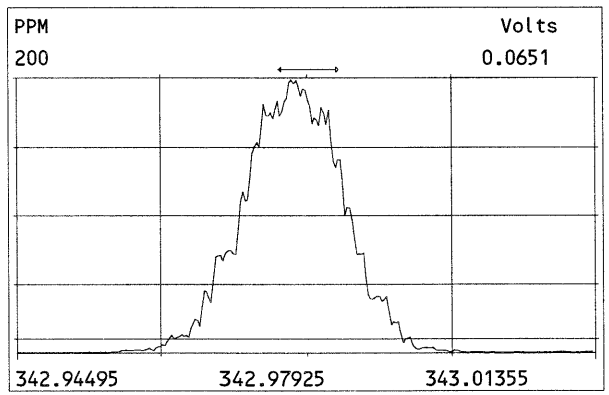




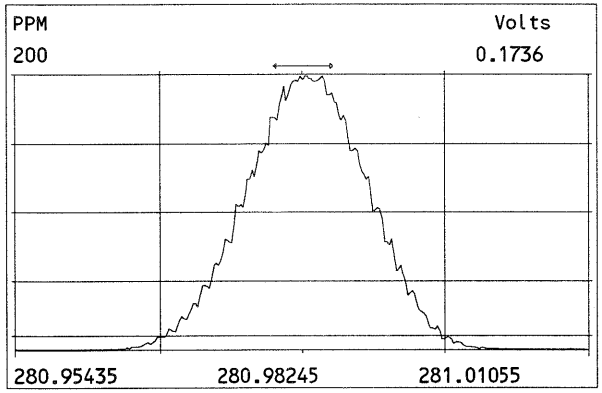


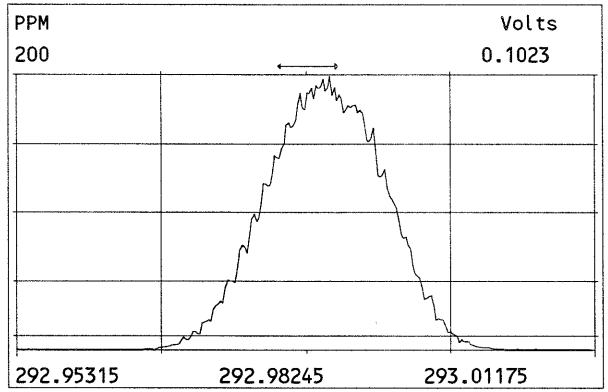


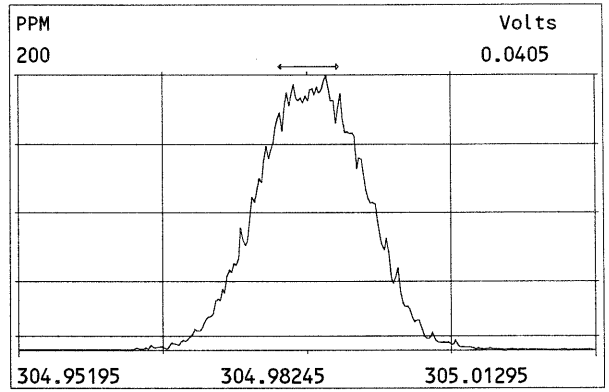


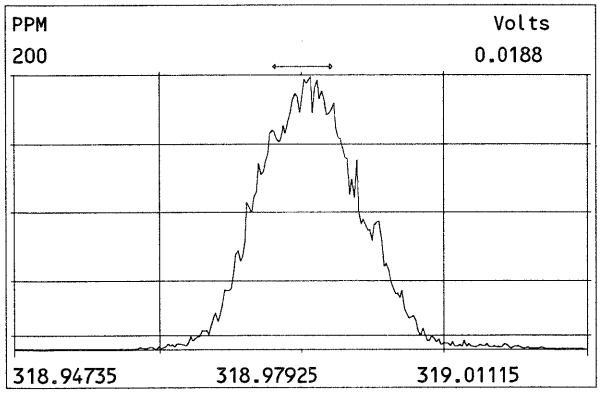


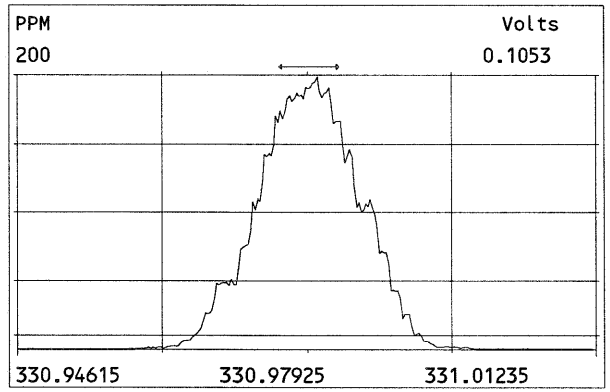
Peak Locate Examination: 3-APR-2019:21:55 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK 78

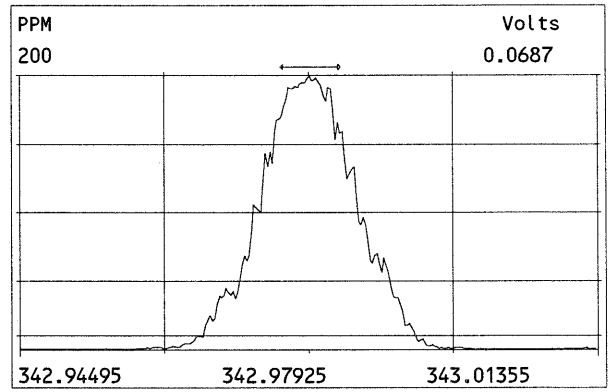


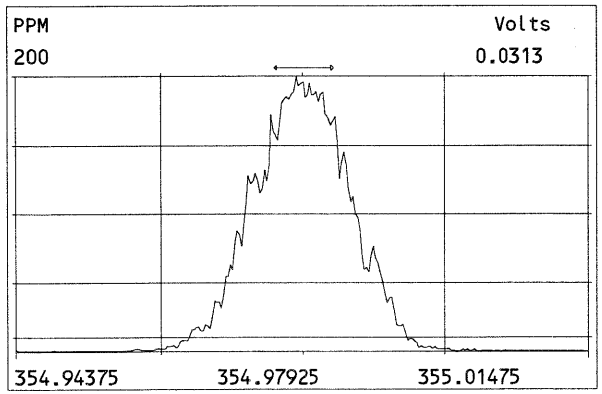


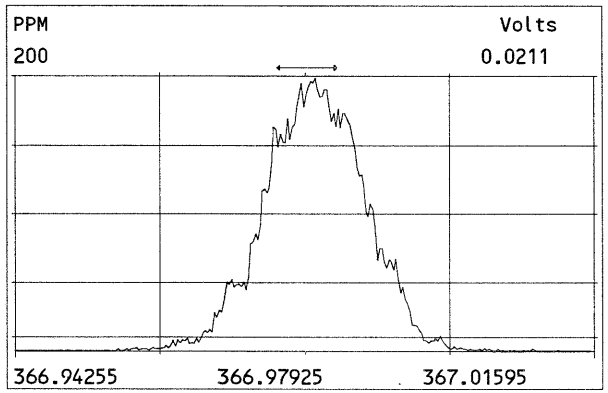


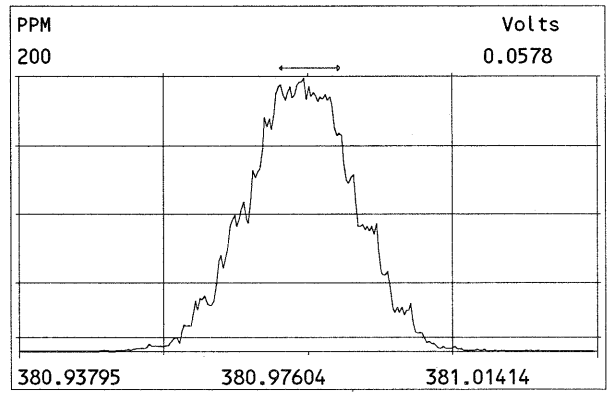




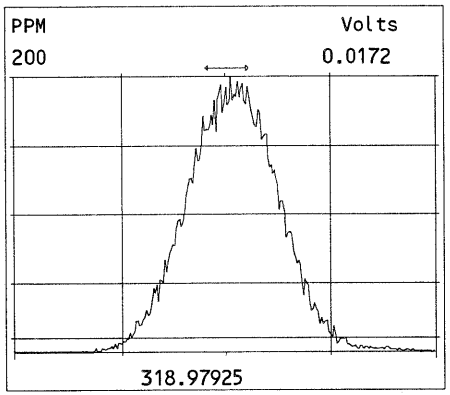


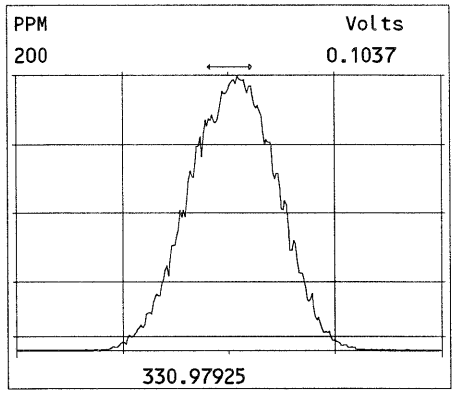


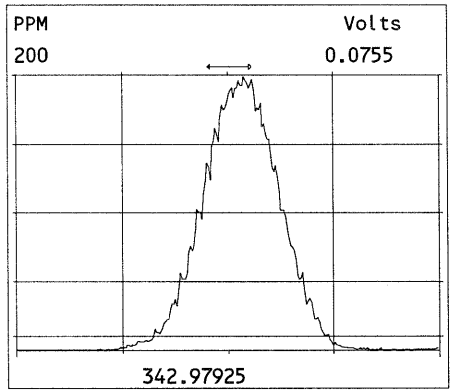


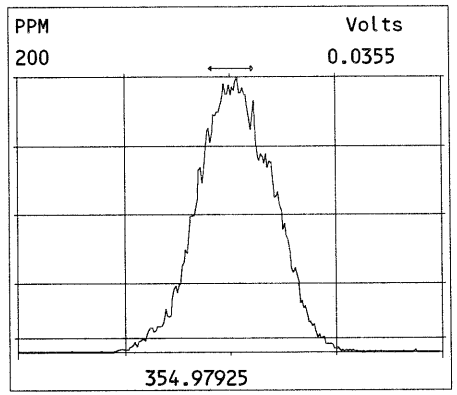


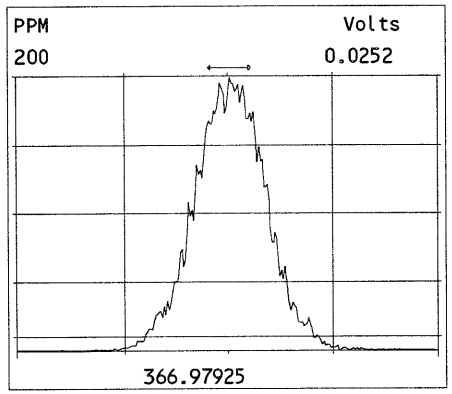
Peak Locate Examination: 3-APR-2019:21:57 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK 78

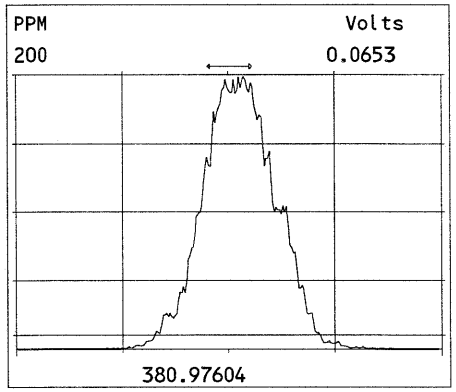


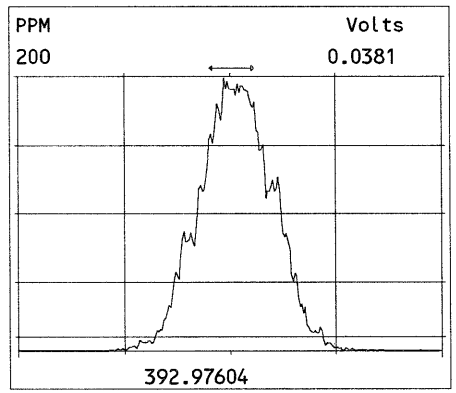


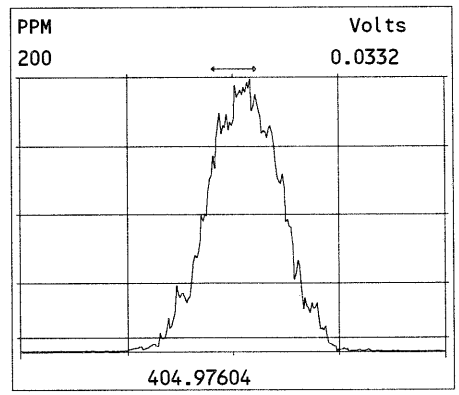


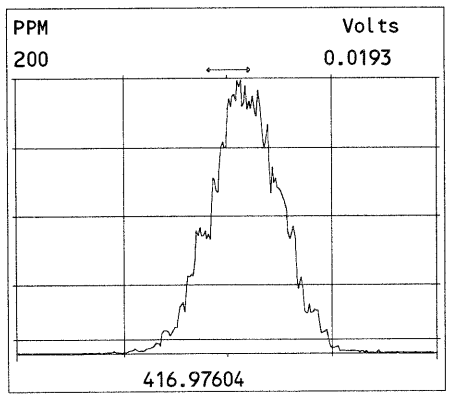


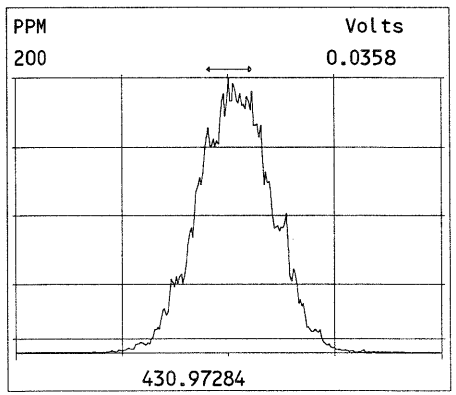


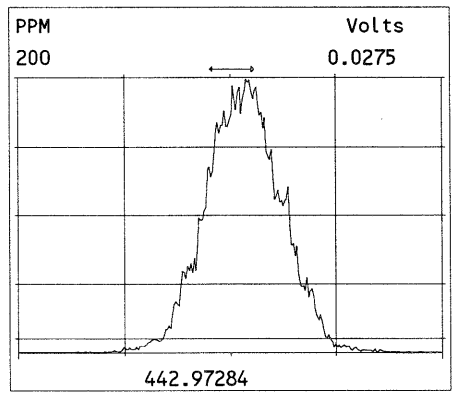




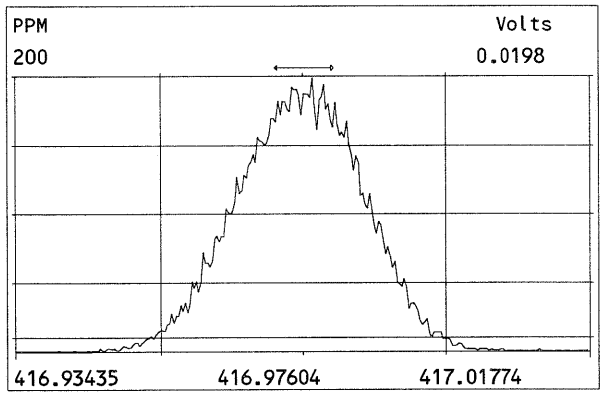


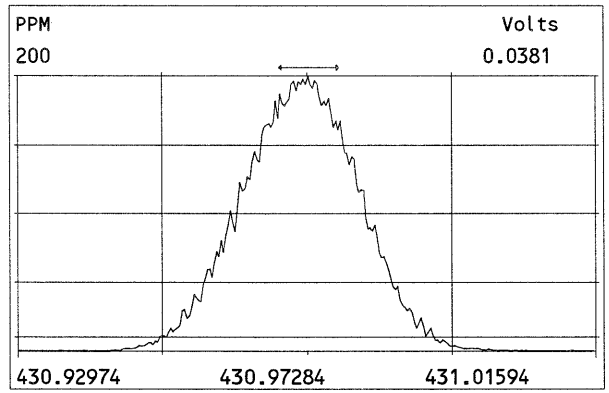


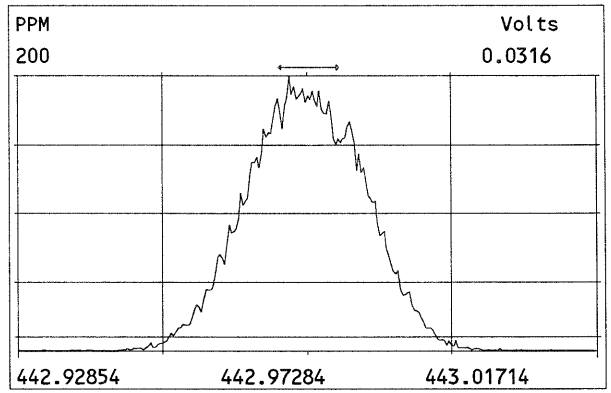


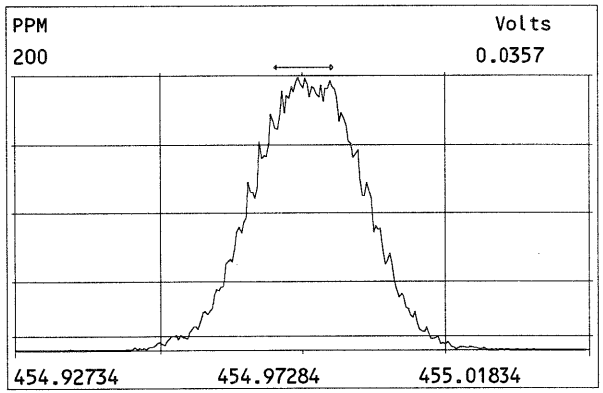


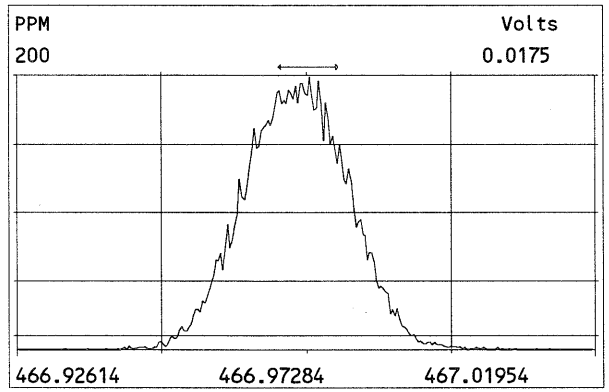
Peak Locate Examination: 3-APR-2019:22:00 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK 78

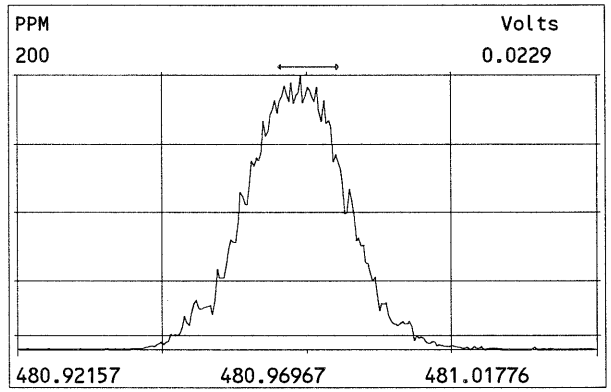


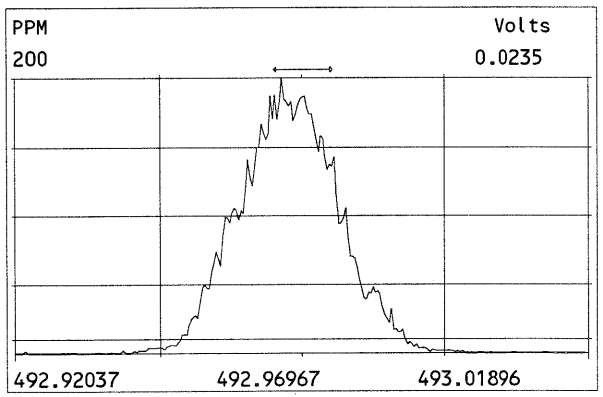


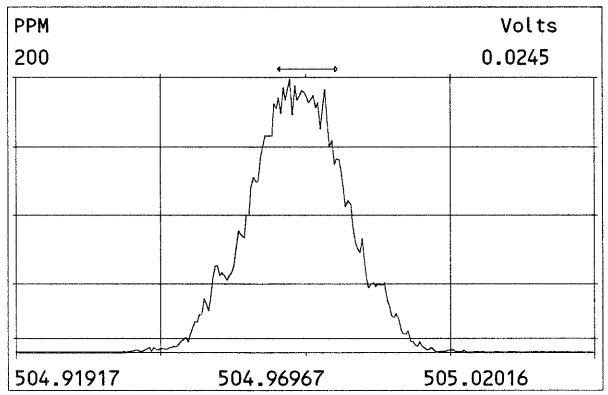


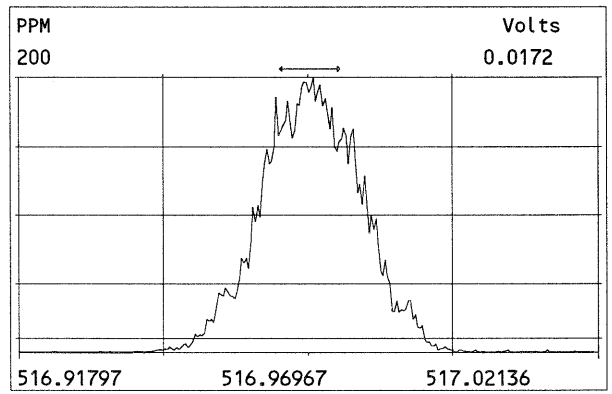












Frontier Analytical Laboratory

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: 05AUG19Z Sam:1 Analysis Date: 5-AUG-19 09:35:17

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.16	2.66-3.60	y	49.5	37.5 - 62.5
PCB-3	M/M+2	3.16	2.66-3.60	y	50.7	37.5 - 62.5
PCB-4	M/M+2	1.54	1.33-1.79	y	52.7	37.5 - 62.5
PCB-15	M/M+2	1.53	1.33-1.79	y	51.3	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	53.8	37.5 - 62.5
PCB-37	M/M+2	1.04	0.88-1.20	y	51.1	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	52.3	37.5 - 62.5
PCB-77	M/M+2	0.77	0.65-0.89	y	54.7	37.5 - 62.5
PCB-81	M/M+2	0.79	0.65-0.89	y	55.4	37.5 - 62.5
PCB-104	M+2/M+4	1.53	1.32-1.78	y	50.3	37.5 - 62.5
PCB-105	M+2/M+4	1.53	1.32-1.78	y	49.8	37.5 - 62.5
PCB-114	M+2/M+4	1.53	1.32-1.78	y	50.7	37.5 - 62.5
PCB-118	M+2/M+4	1.54	1.32-1.78	y	49.8	37.5 - 62.5
PCB-123	M+2/M+4	1.52	1.32-1.78	y	49.8	37.5 - 62.5
PCB-126	M+2/M+4	1.52	1.32-1.78	y	49.9	37.5 - 62.5
PCB-155	M+2/M+4	1.24	1.05-1.43	y	50.2	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	48.7	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	49.7	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	49.4	37.5 - 62.5
PCB-169	M+2/M+4	1.26	1.05-1.43	y	50.1	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	55.1	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	53.3	37.5 - 62.5
PCB-202	M+2/M+4	0.92	0.76-1.02	y	51.7	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	53.3	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	51.7	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	56.0	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	51.1	37.5 - 62.5

Analyst: [signature] Date: 8/5/19

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: 05AUG19Z Sam:1 Analysis Date: 5-AUG-19 09:35:17

	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	3.19	2.66-3.60	y	94.6	50.0 - 145
13C-PCB-3	M/M+2	3.27	2.66-3.60	y	93.9	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	94.9	50.0 - 145
13C-PCB-15	M/M+2	1.59	1.33-1.79	y	94.9	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	95.6	50.0 - 145
13C-PCB-37	M/M+2	1.05	0.88-1.20	y	93.7	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	104	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	84.5	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	84.6	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	96.8	50.0 - 145
13C-PCB-105	M+2/M+4	1.57	1.32-1.78	y	89.5	50.0 - 145
13C-PCB-114	M+2/M+4	1.59	1.32-1.78	y	91.9	50.0 - 145
13C-PCB-118	M+2/M+4	1.60	1.32-1.78	y	96.4	50.0 - 145
13C-PCB-123	M+2/M+4	1.58	1.32-1.78	y	93.6	50.0 - 145
13C-PCB-126	M+2/M+4	1.56	1.32-1.78	y	83.0	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	117	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	88.0	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	84.2	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	90.6	50.0 - 145
13C-PCB-169	M+2/M+4	1.30	1.05-1.43	y	80.9	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	94.3	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	88.5	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	98.9	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	96.1	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	99.9	50.0 - 145
13C-PCB-208	M+2/M+4	0.83	0.65-0.89	y	99.0	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	105	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.06	0.88-1.20	y	106	65.0 - 135
13C-PCB-111	M+2/M+4	1.59	1.32-1.78	y	95.0	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	99.1	75.0 - 125

Analyst: _____ Date: 8/5/19

FAL ID: ST080519Z1 Filename: 05AUG19Z Sam:1 Acquired: 5-AUG-19 09:35:17 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 05AUG19Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	7.53e+07	3.16 y	14:32	1.19	49.5		2.50	-	-	*	-
13C-PCB-1	1.27e+08	3.19 y	14:31	1.02	94.6		2.50				94.6
PCB-3	7.16e+07	3.16 y	16:58	1.18	50.7		2.50	-	-	*	-
13C-PCB-3	1.20e+08	3.27 y	16:57	0.97	93.9		2.50				93.9
PCB-4	5.09e+07	1.54 y	18:12	1.04	52.7		2.50	-	-	*	-
13C-PCB-4	9.24e+07	1.60 y	18:10	0.74	94.9		2.50				94.9
PCB-15	6.38e+07	1.53 y	23:43	1.03	51.3		2.50	-	-	*	-
13C-PCB-15	1.21e+08	1.59 y	23:42	0.96	94.9		2.50				94.9
PCB-19	3.97e+07	1.06 y	22:05	1.11	53.8		2.50	-	-	*	-
13C-PCB-19	6.64e+07	1.07 y	22:03	0.53	95.6		2.50				95.6
13C-PCB-9	1.32e+08	1.58 y	19:51	-	170		2.50				
PCB-37	4.81e+07	1.04 y	30:22	1.04	51.1		2.50	-	-	*	-
13C-PCB-37	9.08e+07	1.05 y	30:21	1.57	93.7		2.50				93.7
PCB-54	5.38e+07	0.79 y	25:36	1.16	52.3		2.50	-	-	*	-
13C-PCB-54	8.85e+07	0.81 y	25:35	1.38	104		2.50				104
PCB-104	3.60e+07	1.53 y	30:03	1.08	50.3		2.50	-	-	*	-
13C-PCB-104	6.62e+07	1.60 y	30:02	1.11	96.8		2.50				96.8
13C-PCB-28	1.12e+08	1.06 y	26:40	1.71	106		2.50				106
13C-PCB-52	6.19e+07	0.80 y	28:56	-	162		2.50				
PCB-81	3.44e+07	0.79 y	36:08	1.06	55.4		2.50	-	-	*	-
13C-PCB-81	5.84e+07	0.80 y	36:07	1.50	84.6		2.50				84.6
PCB-77	3.40e+07	0.77 y	36:42	1.02	54.7		2.50	-	-	*	-
13C-PCB-77	6.09e+07	0.81 y	36:41	1.57	84.5		2.50				84.5
PCB-155	3.91e+07	1.24 y	34:12	1.02	50.2		2.50	-	-	*	-
13C-PCB-155	7.61e+07	1.28 y	34:11	1.42	117		2.50				117
13C-PCB-111	5.63e+07	1.59 y	36:16	1.29	95.0		2.50				95.0
13C-PCB-101	4.60e+07	1.62 y	34:37	-	140		2.50				
PCB-123	2.94e+07	1.52 y	38:20	1.03	49.8		2.50	-	-	*	-
13C-PCB-123	5.71e+07	1.58 y	38:18	1.40	93.6		2.50				93.6
PCB-118	3.27e+07	1.54 y	38:30	1.02	49.8		2.50	-	-	*	-
13C-PCB-118	6.46e+07	1.60 y	38:30	1.53	96.4		2.50				96.4
PCB-114	2.99e+07	1.53 y	39:08	1.01	50.7		2.50	-	-	*	-
13C-PCB-114	5.81e+07	1.59 y	39:06	1.45	91.9		2.50				91.9
PCB-105	2.85e+07	1.53 y	39:57	1.02	49.8		2.50	-	-	*	-
13C-PCB-105	5.63e+07	1.57 y	39:56	1.44	89.5		2.50				89.5
PCB-126	2.52e+07	1.52 y	42:04	1.02	49.9		2.50	-	-	*	-
13C-PCB-126	4.97e+07	1.56 y	42:02	1.37	83.0		2.50				83.0
PCB-167	2.68e+07	1.25 y	43:26	1.07	49.4		2.50	-	-	*	-
13C-PCB-167	5.08e+07	1.28 y	43:25	1.28	90.6		2.50				90.6
PCB-156	2.54e+07	1.25 y	44:39	1.10	48.7		2.50	-	-	*	-
13C-PCB-156	4.75e+07	1.29 y	44:39	1.24	88.0		2.50				88.0
PCB-157	2.60e+07	1.27 y	44:55	1.06	49.7		2.50	-	-	*	-
13C-PCB-157	4.92e+07	1.29 y	44:54	1.34	84.2		2.50				84.2
PCB-169	2.33e+07	1.26 y	46:45	1.06	50.1		2.50	-	-	*	-
13C-PCB-169	4.39e+07	1.30 y	46:45	1.24	80.9		2.50				80.9
PCB-188	2.97e+07	1.06 y	39:42	1.02	55.1		2.50	-	-	*	-
13C-PCB-188	5.30e+07	1.07 y	39:41	1.29	94.3		2.50				94.3
PCB-189	2.18e+07	1.07 y	48:26	0.99	53.3		2.50	-	-	*	-
13C-PCB-189	4.13e+07	1.06 y	48:26	1.07	88.5		2.50				88.5
PCB-202	2.40e+07	0.92 y	44:50	0.99	51.7		2.50	-	-	*	-
13C-PCB-202	4.70e+07	0.91 y	44:49	1.09	98.9		2.50				98.9
13C-PCB-178	3.49e+07	1.08 y	42:20	0.81	99.1		2.50				99.1
13C-PCB-138	4.37e+07	1.28 y	41:33	-	136		2.50				

FAL ID: ST080519Z1 Filename: 05AUG19Z Sam:1 Acquired: 5-AUG-19 09:35:17 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 05AUG19Z GC Column: DB1MS Amount: 1.000

PCB-205	2.81e+07	0.90 y	50:05	1.02	53.3	2.50	-	-	*	-
13C-PCB-205	5.15e+07	0.91 y	50:05	1.40	96.1	2.50				96.1
PCB-208	2.82e+07	1.35 y	49:10	0.98	56.0	2.50	-	-	*	-
13C-PCB-208	5.16e+07	0.83 y	49:08	1.36	99.0	2.50				99.0
PCB-206	1.98e+07	1.36 y	51:17	0.99	51.7	2.50	-	-	*	-
13C-PCB-206	3.85e+07	0.81 y	51:17	1.01	99.9	2.50				99.9
PCB-209	2.72e+07	1.19 y	52:29	1.09	51.1	2.50	-	-	*	-
13C-PCB-209	4.89e+07	1.19 y	52:27	1.21	105	2.50				105
13C-PCB-194	3.83e+07	0.91 y	49:50	-	125	2.50				

Analyst: _____ Date: 8/5/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:05AUG19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

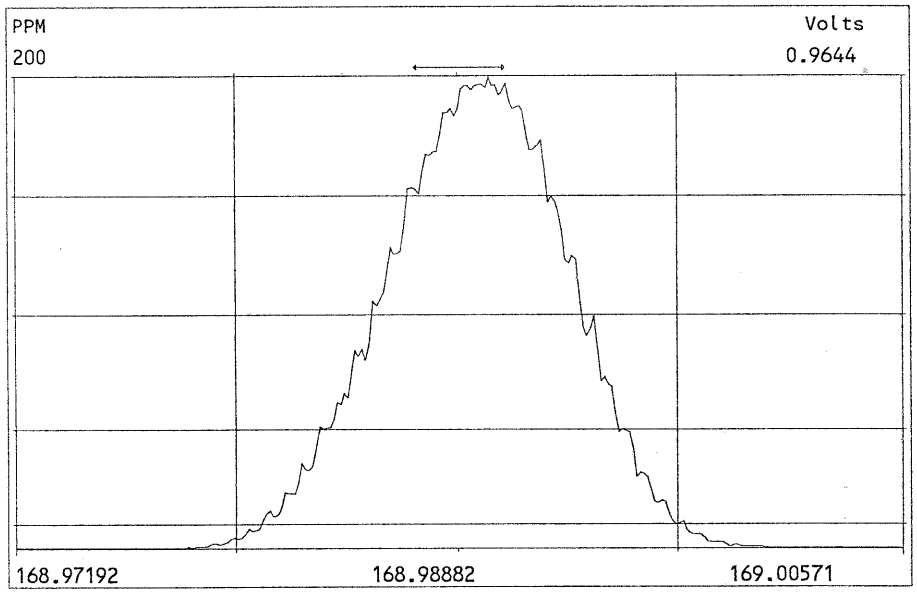
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
05AUG19Z	1	ST080519Z1	1668 CS3 R181204D	5-AUG-19 09:35:17	ST080519Z1	ST080519Z2	BS
05AUG19Z	2	SS080519Z1	Daily 209 190408A	5-AUG-19 10:33:37	ST080519Z1	ST080519Z2	BS
05AUG19Z	3	12511-009-0001-SA	LDW-Y2-IN-ENR-CE-S010	5-AUG-19 11:31:58	ST080519Z1	ST080519Z2	BS
05AUG19Z	4	12511-010-0001-SA	LDW-Y2-IN-ENR+AC-CA-SSWI	5-AUG-19 12:30:20	ST080519Z1	ST080519Z2	BS
05AUG19Z	5	12511-011-0001-SA	LDW-Y2-IN-ENR+AC-CB-SSWI	5-AUG-19 13:28:45	ST080519Z1	ST080519Z2	BS
05AUG19Z	6	12511-012-0001-SA	LDW-Y2-IN-ENR+AC-CC-SSWI	5-AUG-19 14:27:06	ST080519Z1	ST080519Z2	BS
05AUG19Z	7	12511-013-0001-SA	LDW-Y2-IN-ENR+AC-CD-SSWI	5-AUG-19 15:25:27	ST080519Z1	ST080519Z2	BS
05AUG19Z	8	12511-014-0001-SA	LDW-Y2-IN-ENR+AC-CE-SSWI	5-AUG-19 16:24:14	ST080519Z1	ST080519Z2	BS
05AUG19Z	9	12511-015-0001-SA	LDW-Y2-IN-ENR-CA-SSWI	5-AUG-19 17:22:59	ST080519Z1	ST080519Z2	BS
05AUG19Z	10	12512-012-0001-SA	LDW-Y2-SC-ENR-CB-S010	5-AUG-19 18:21:21	ST080519Z1	ST080519Z2	BS
05AUG19Z	11	12512-013-0001-SA	LDW-Y2-SC-ENR-CC-S010	5-AUG-19 19:19:42	ST080519Z1	ST080519Z2	BS
05AUG19Z	12	12512-014-0001-SA	LDW-Y2-SC-ENR-CD-S010	5-AUG-19 20:18:03	ST080519Z1	ST080519Z2	BS
05AUG19Z	13	12512-015-0001-SA	LDW-Y2-SC-ENR-CE-S010	5-AUG-19 21:16:25	ST080519Z1	ST080519Z2	BS
05AUG19Z	14	12512-016-0001-SA	LDW-Y2-SC-ENR+AC-CA/AC-CD-S0	5-AUG-19 22:14:45	ST080519Z1	ST080519Z2	BS
05AUG19Z	15	SB080519Z1	Solvent Blank	5-AUG-19 23:13:07	ST080519Z1	ST080519Z2	BS
05AUG19Z	16	ST080519Z2	1668 CS3 R181204D	6-AUG-19 00:11:49	ST080519Z1	ST080519Z2	BS

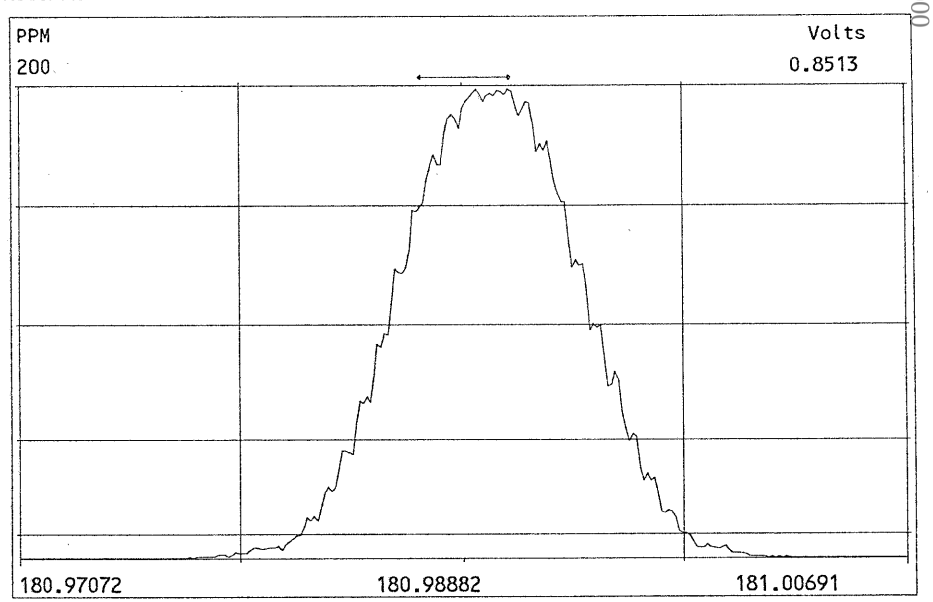
8/6/19

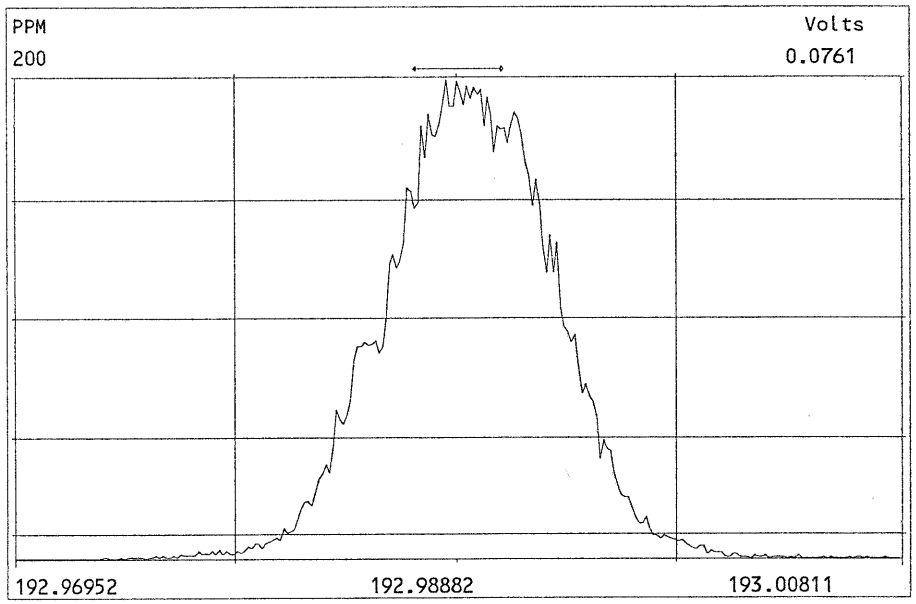
Data Backed Up:_____

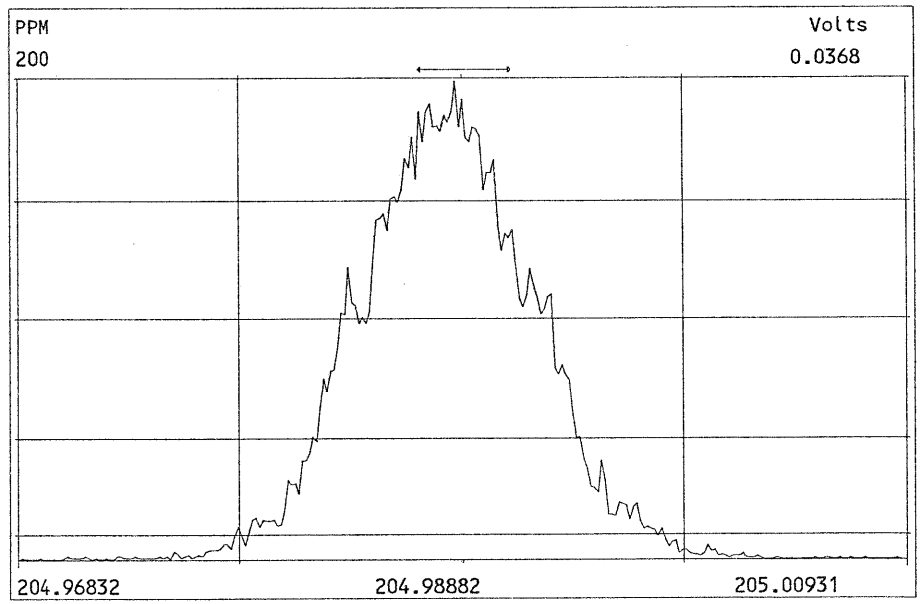
Date:_____

Peak Locate Examination: 5-AUG-2019:09:32 File:05AUG19Z
Experiment:1668PCB Function:1 Reference:PFK

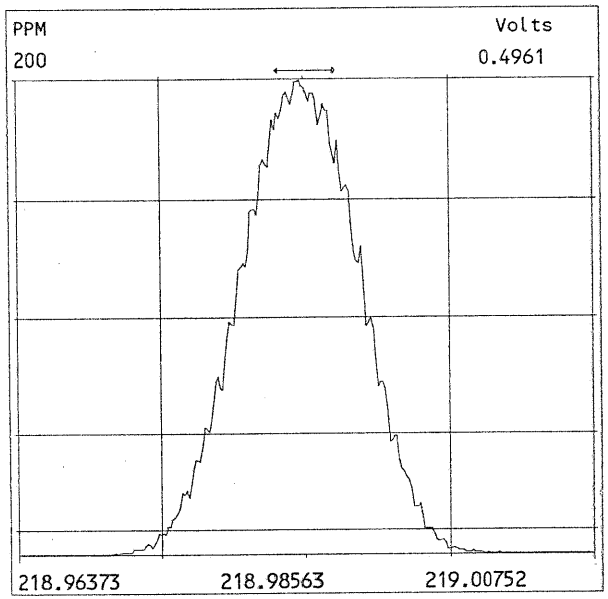


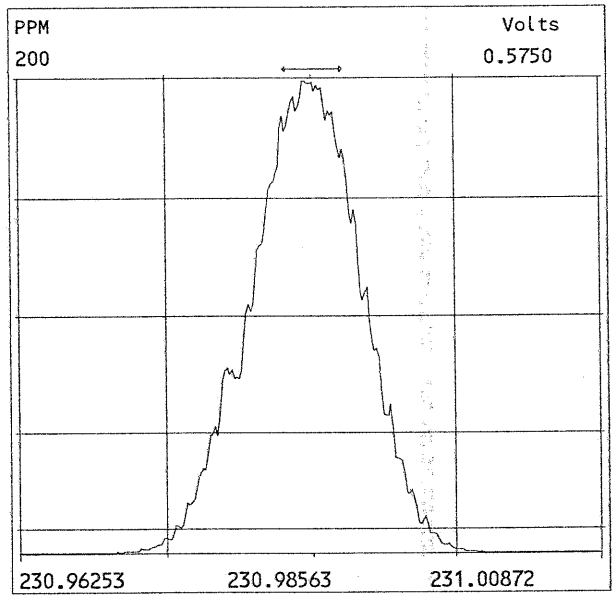


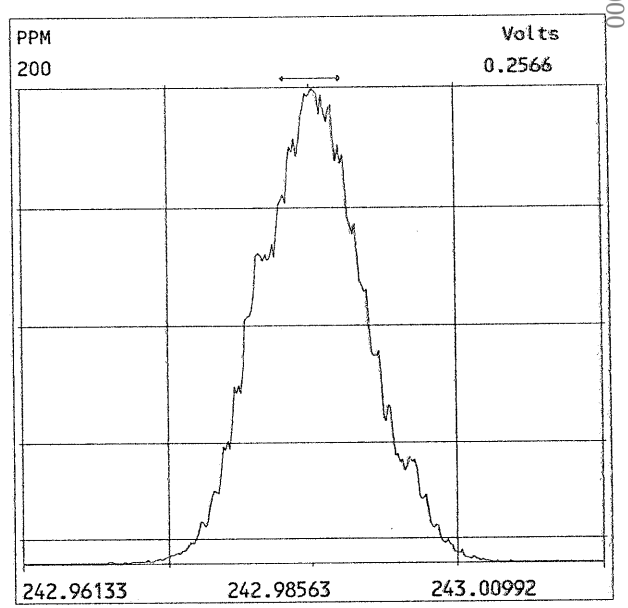


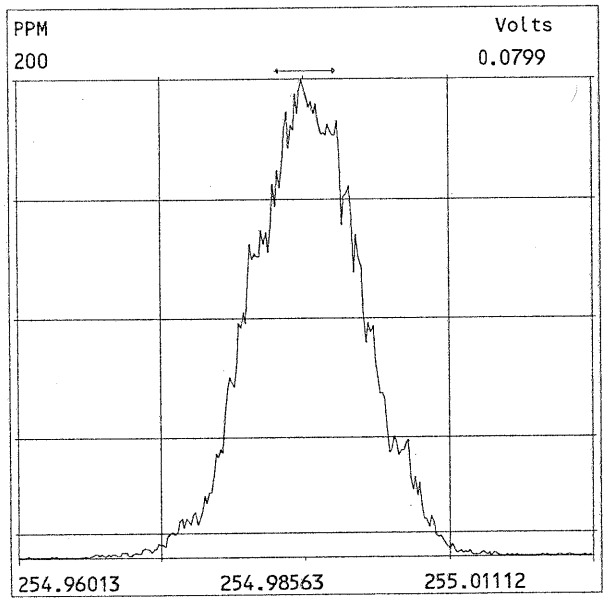


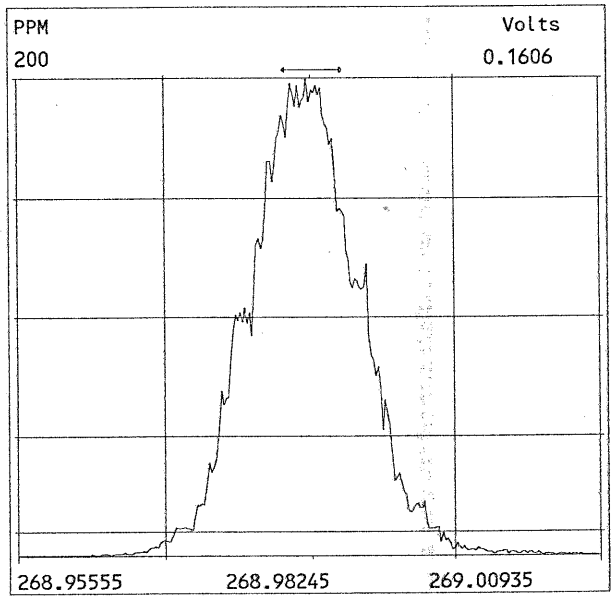
Peak Locate Examination: 5-AUG-2019:09:32 File:05AUG19Z
Experiment:1668PCB Function:2 Reference:PFK

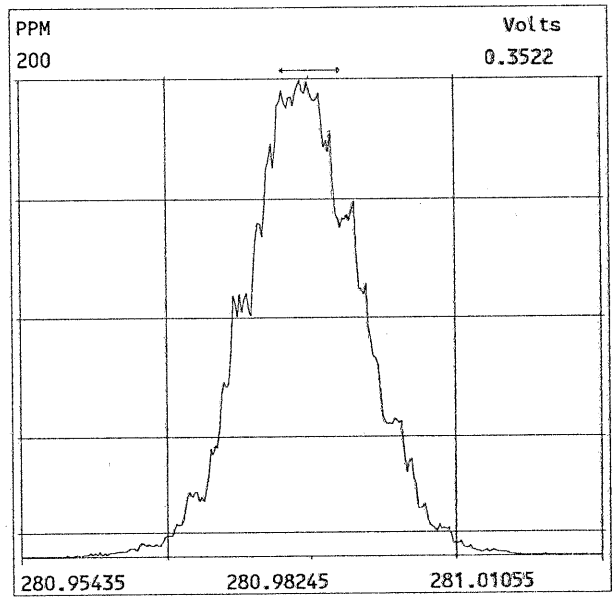




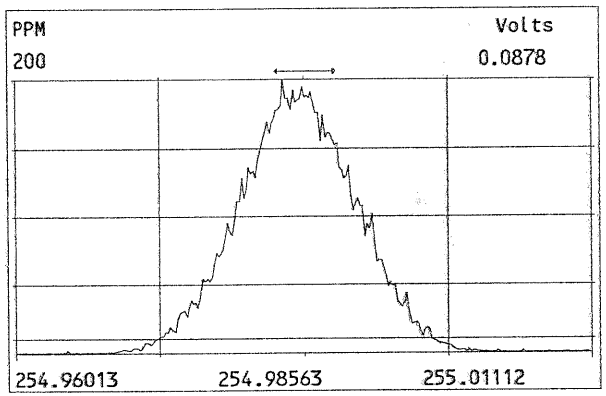


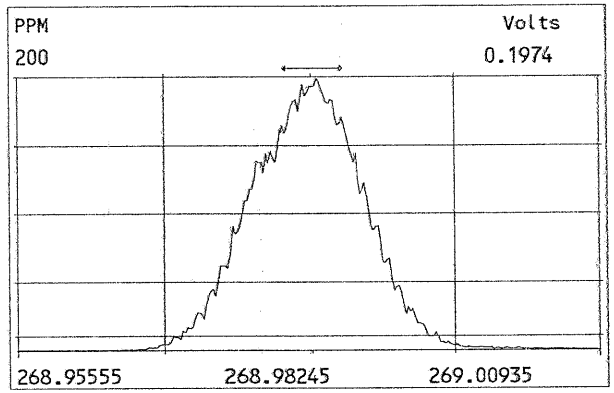


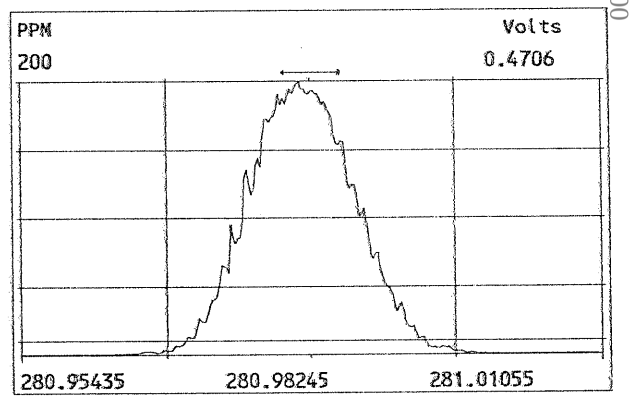


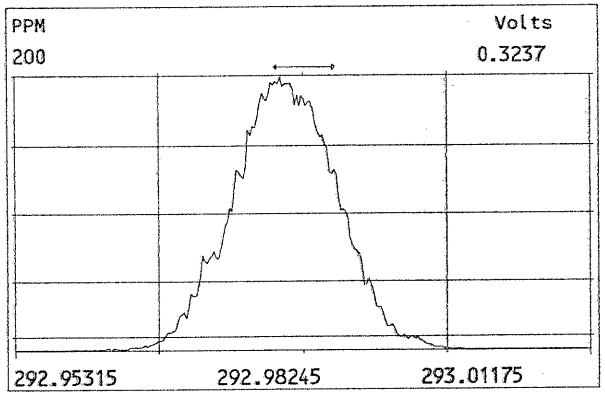


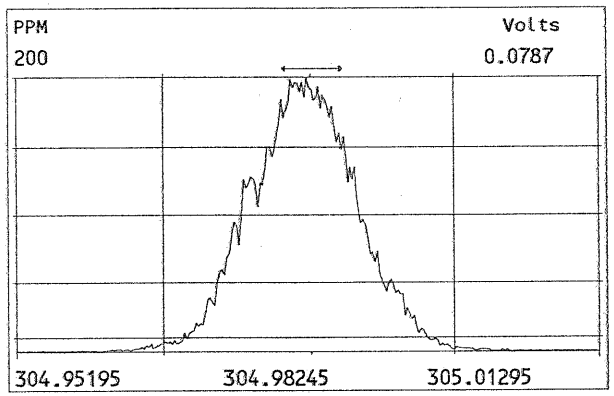
Peak Locate Examination: 5-AUG-2019:09:33 File:05AUG19Z
Experiment:1668PCB Function:3 Reference:PFK

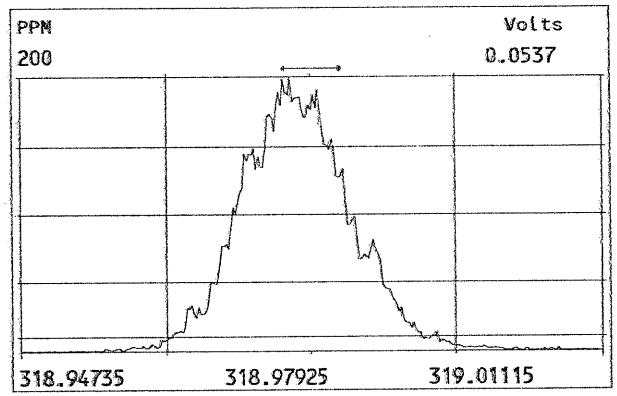


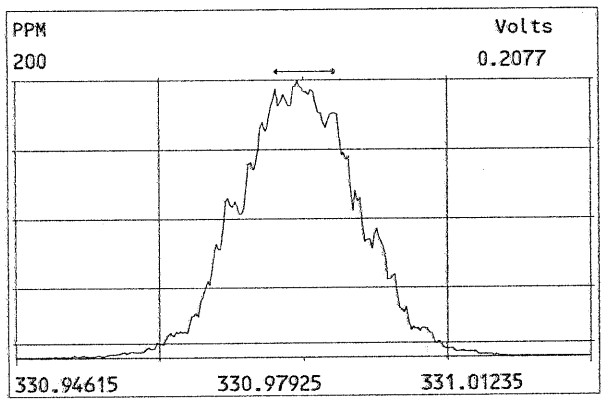


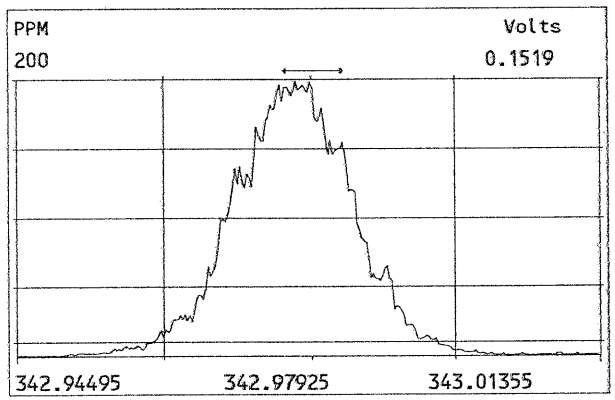




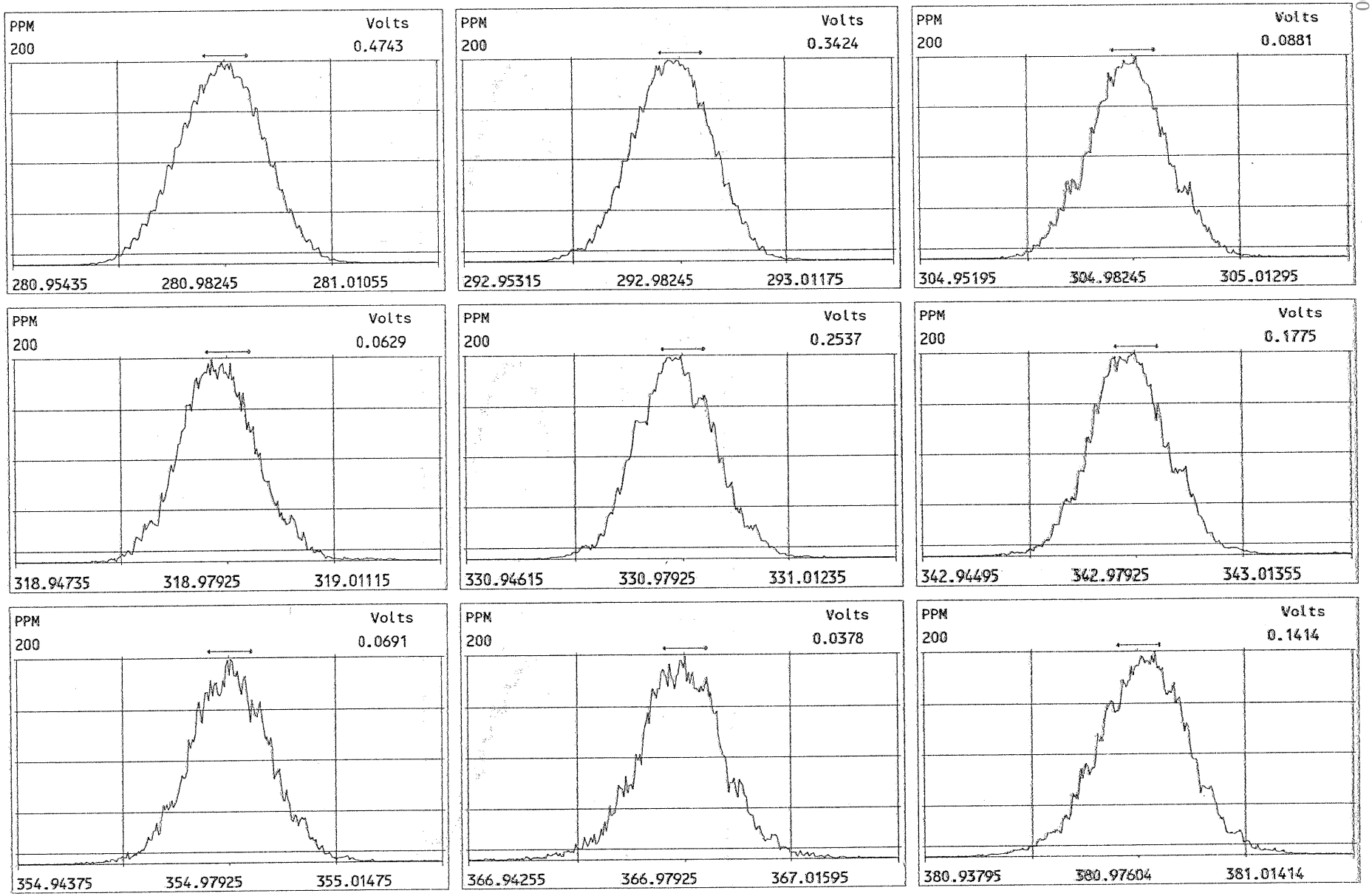




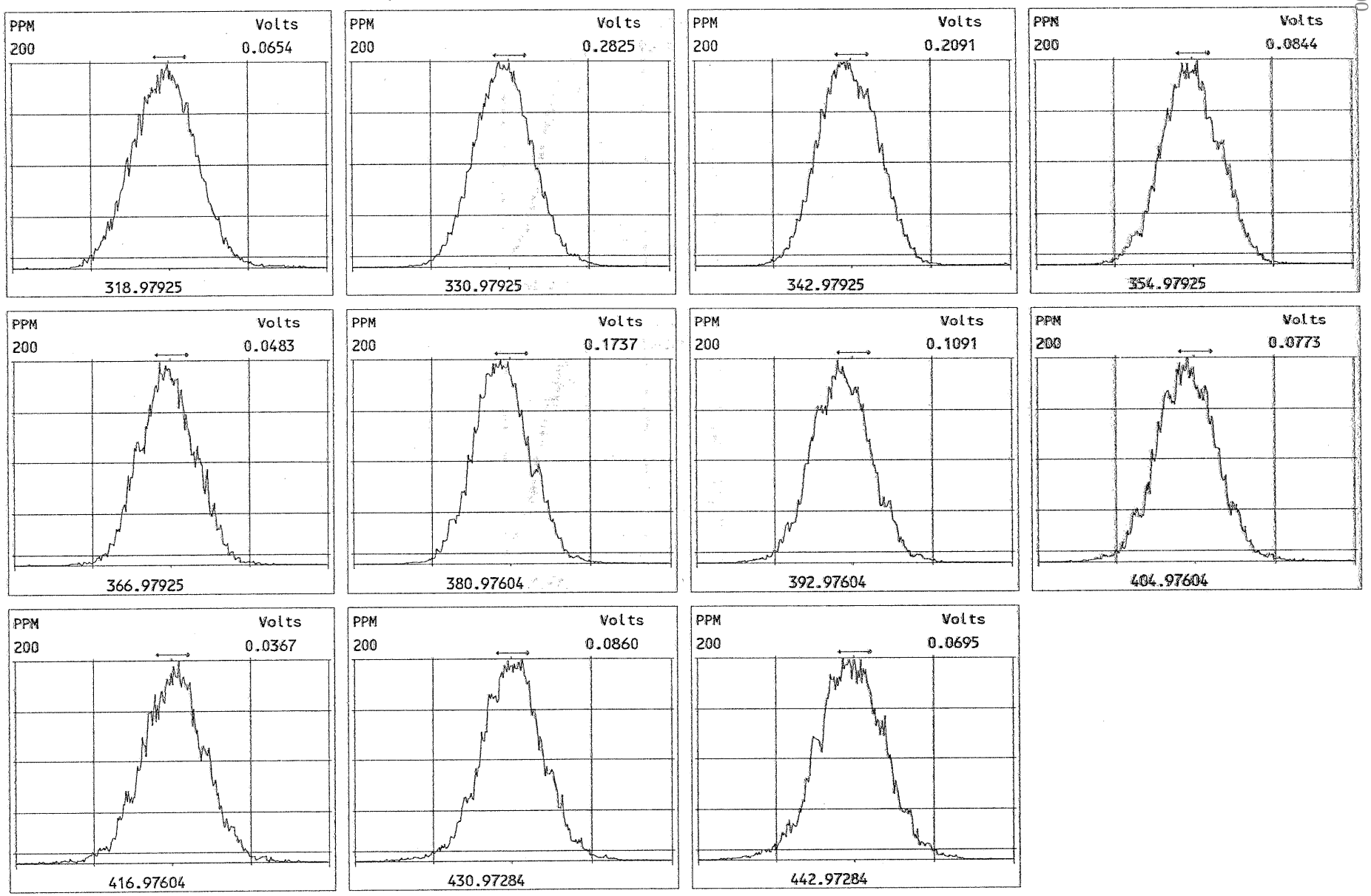




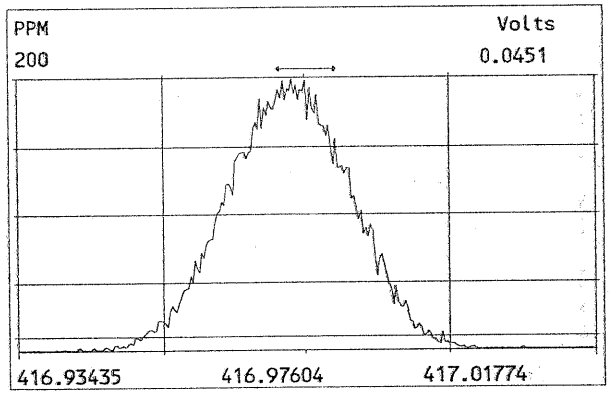
Peak Locate Examination: 5-AUG-2019:09:33 File:05AUG19Z
Experiment:1668PCB Function:4 Reference:PFK

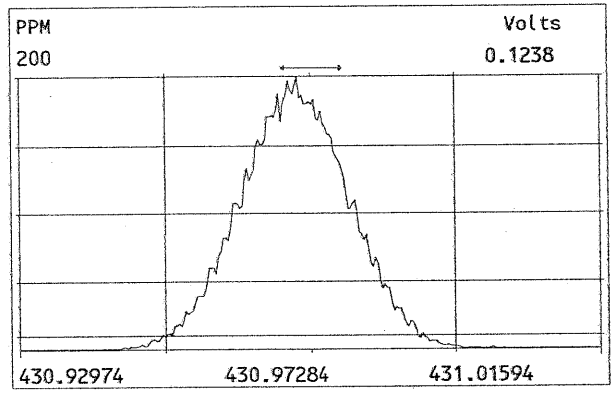


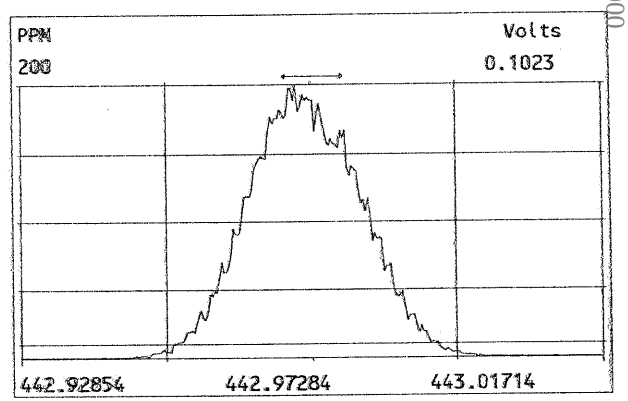
Peak Locate Examination: 5-AUG-2019:09:34 File:05AUG19Z
Experiment:1668PCB Function:5 Reference:PFK

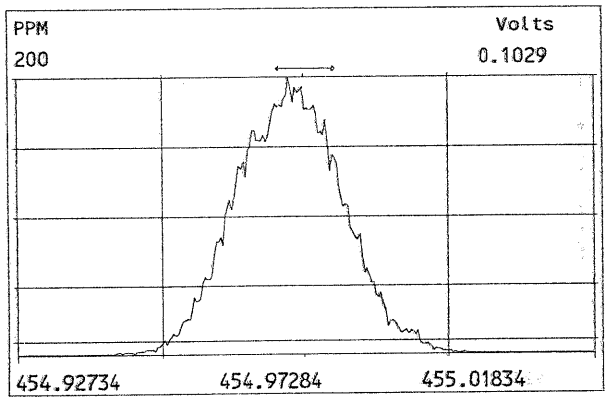


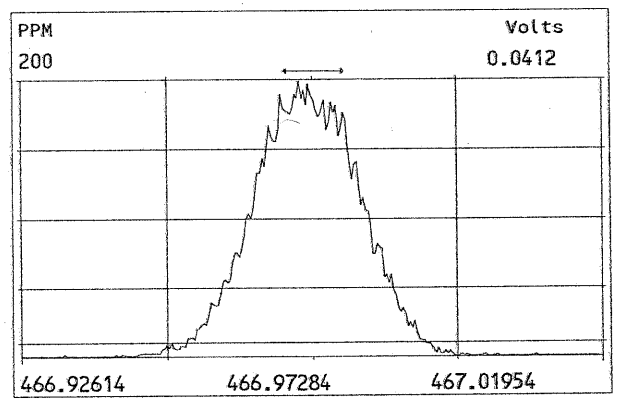
Peak Locate Examination: 5-AUG-2019:09:34 File:05AUG19Z
Experiment:1668PCB Function:6 Reference:PFK

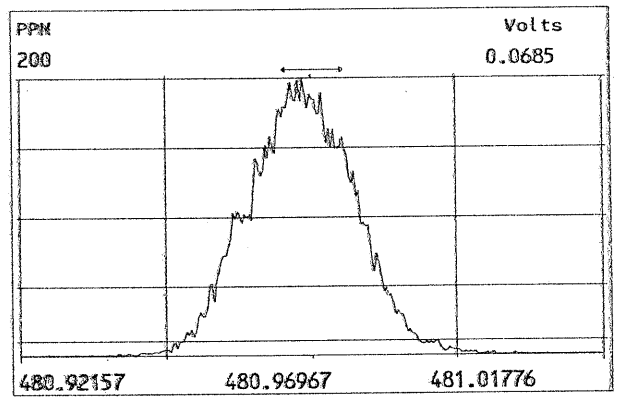


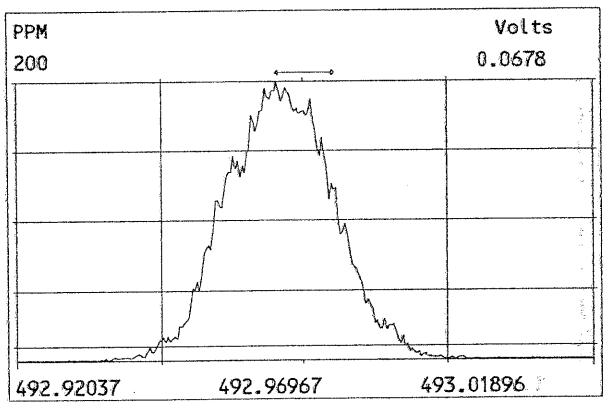


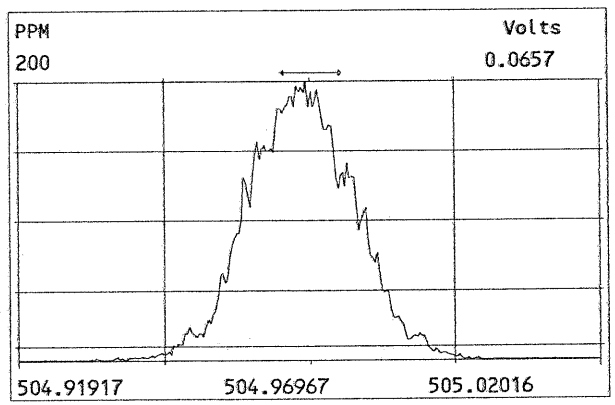


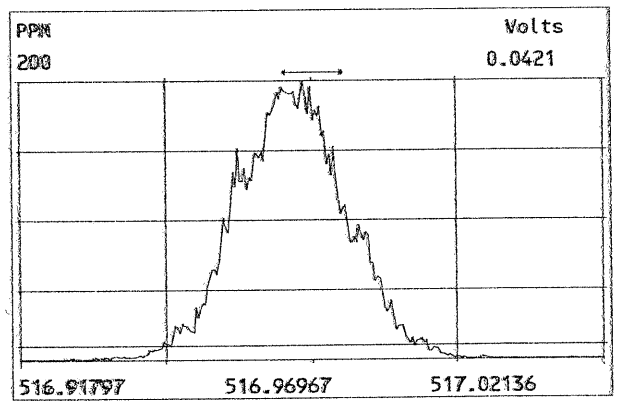




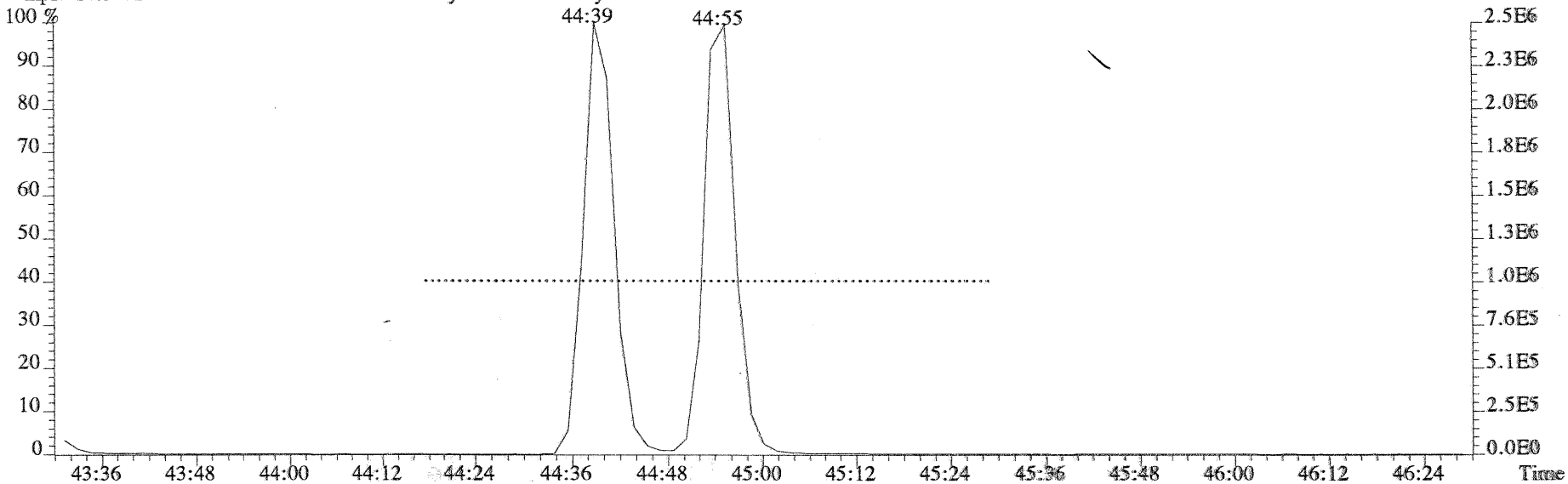




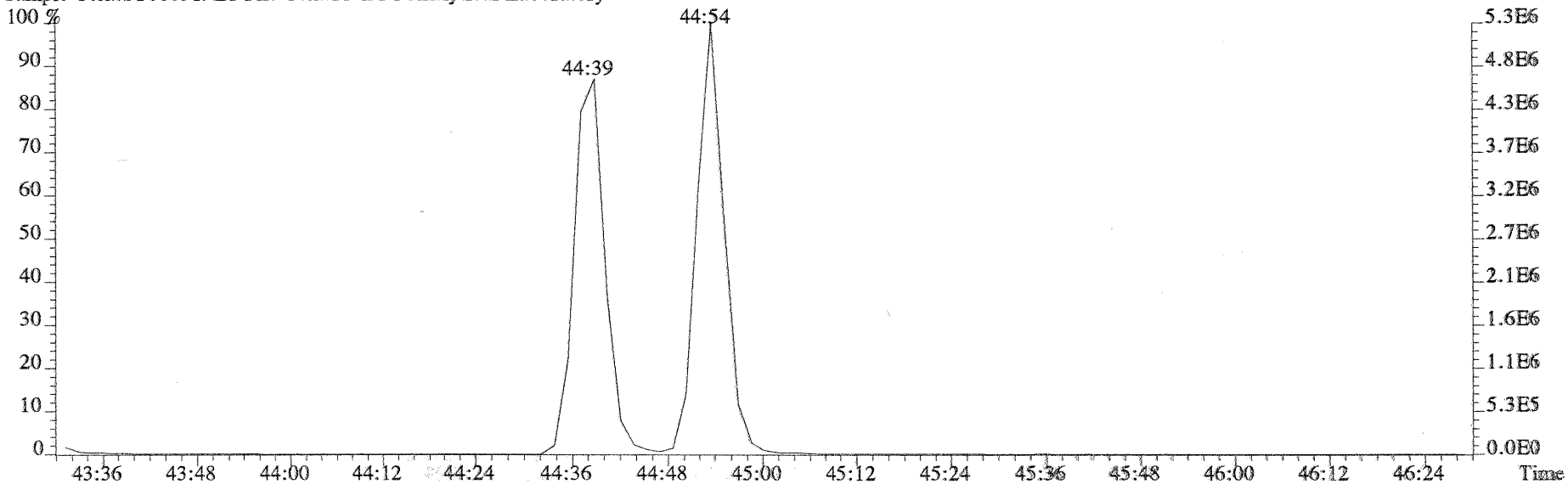




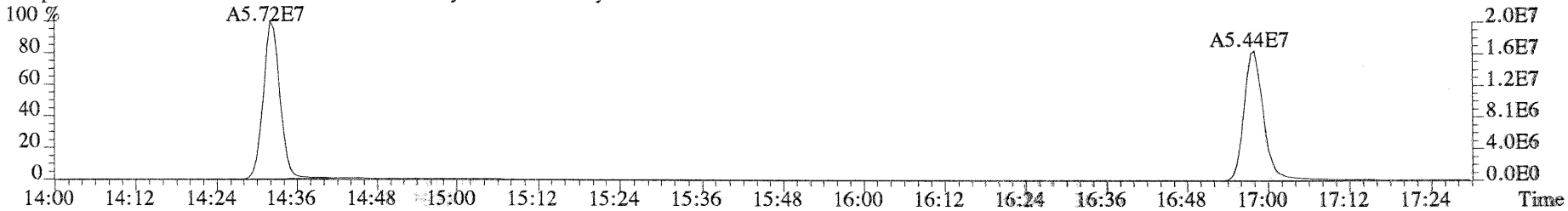
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



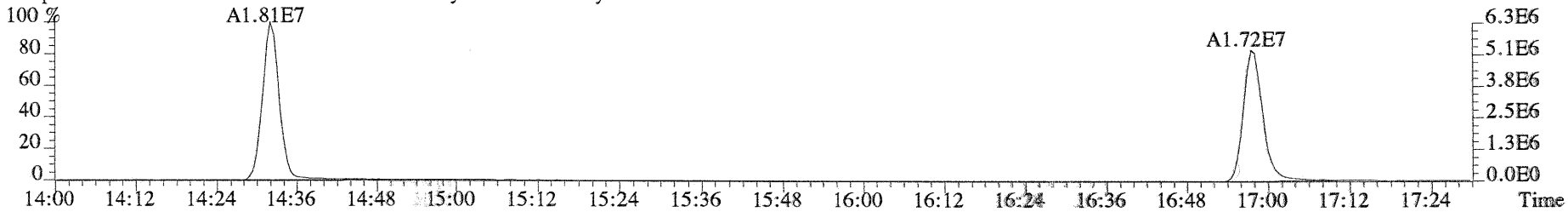
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



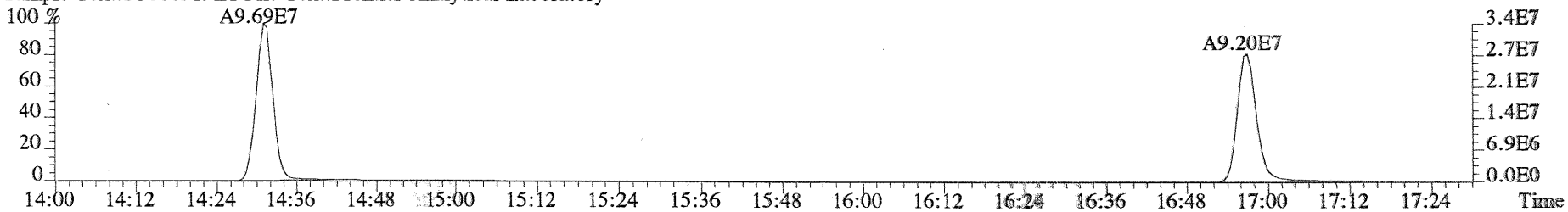
File:05AUG19Z #1-783 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



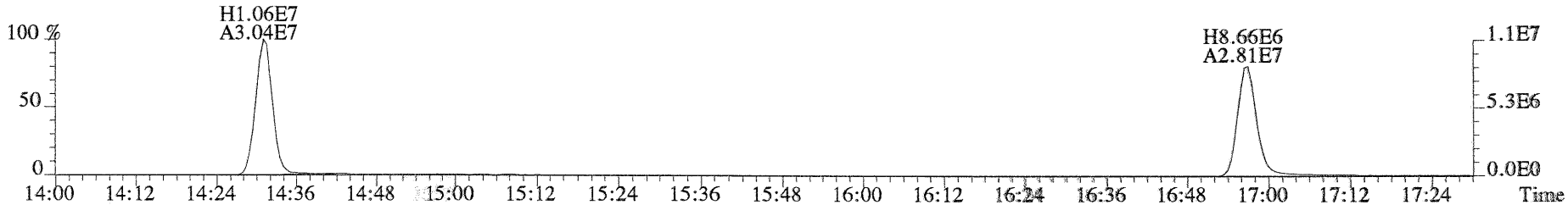
File:05AUG19Z #1-783 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



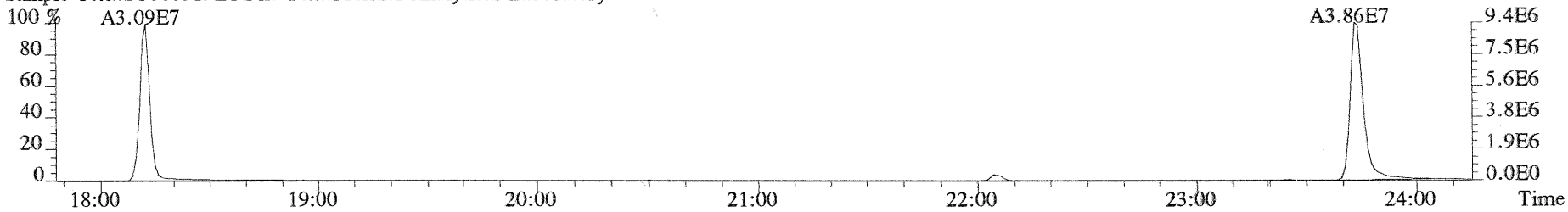
File:05AUG19Z #1-783 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



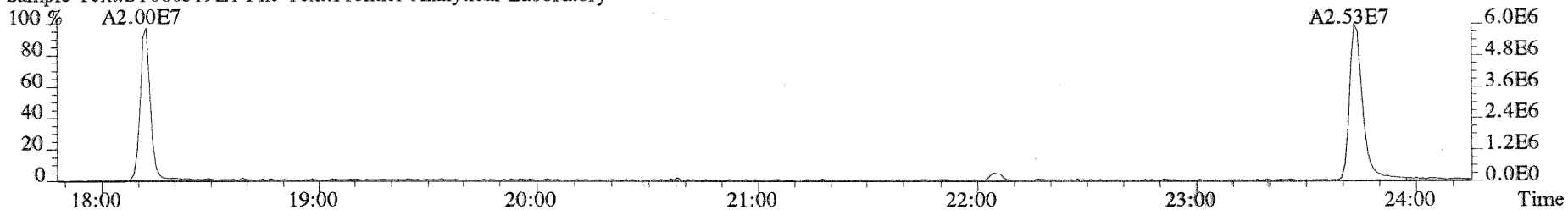
File:05AUG19Z #1-783 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



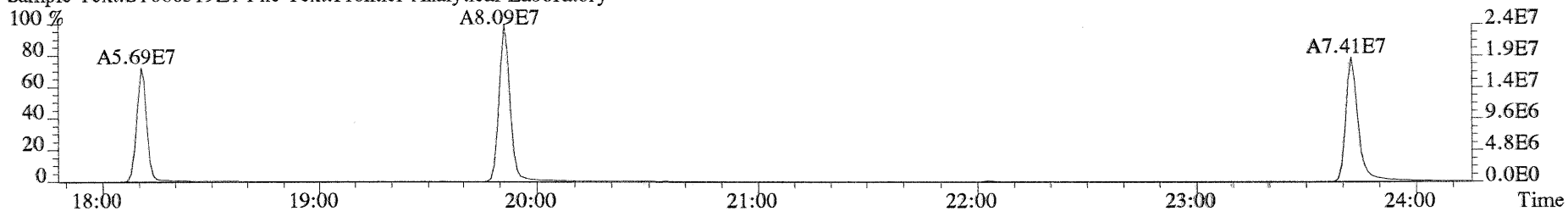
File:05AUG19Z #1-520 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



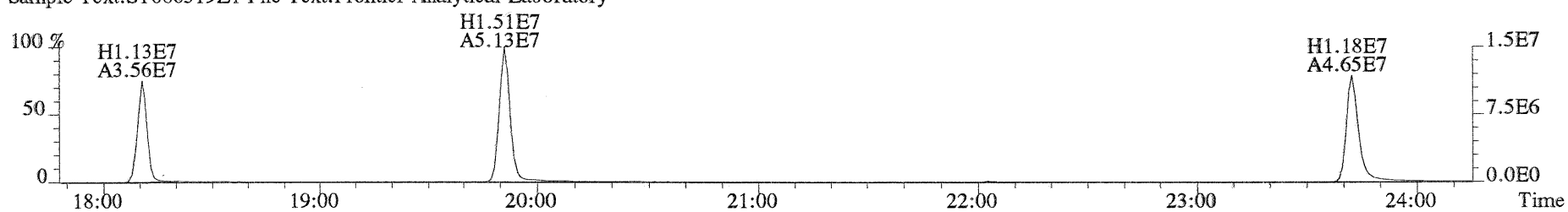
File:05AUG19Z #1-520 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
223.9975 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



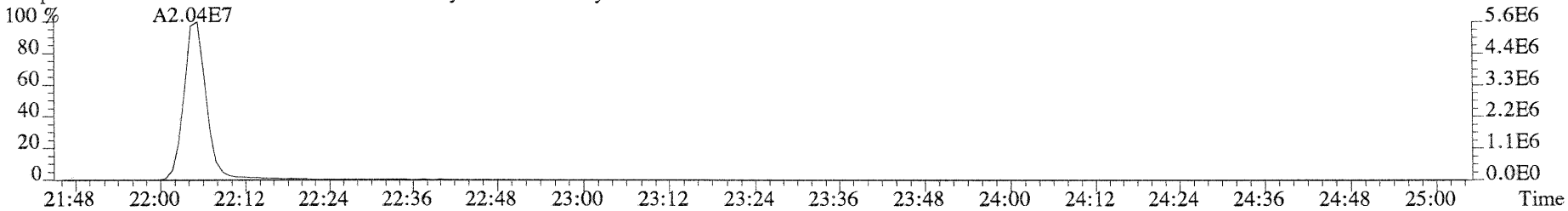
File:05AUG19Z #1-520 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



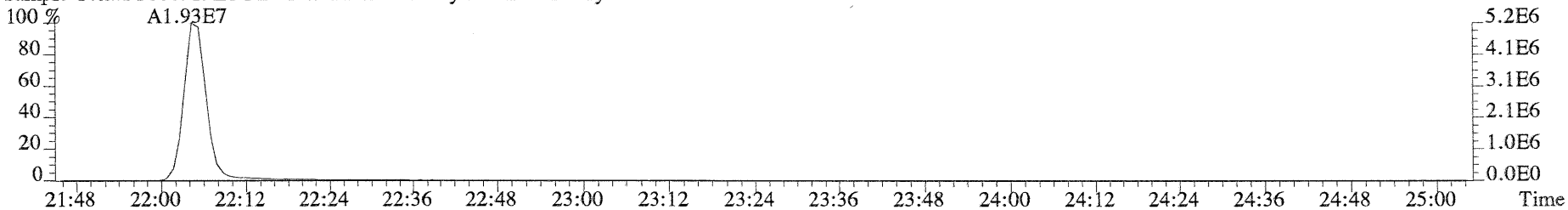
File:05AUG19Z #1-520 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



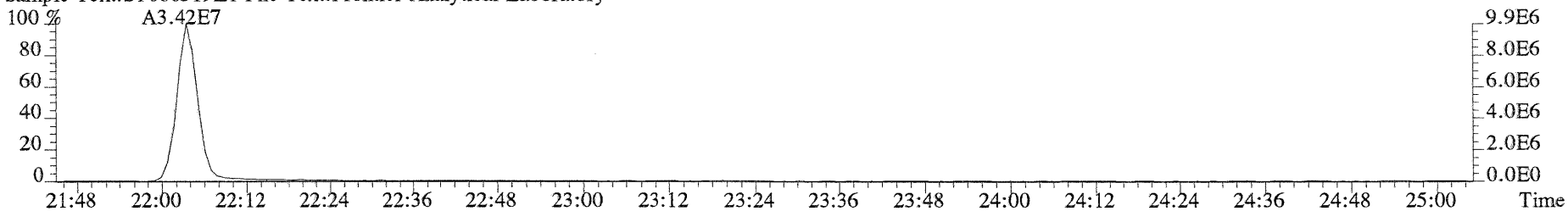
File:05AUG19Z #1-520 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



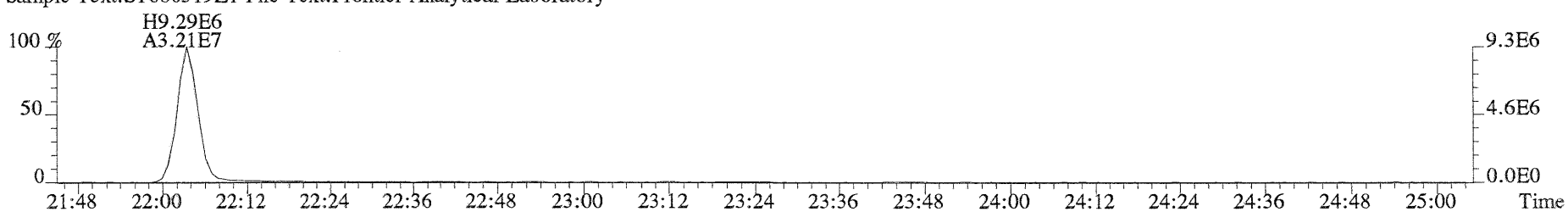
File:05AUG19Z #1-520 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



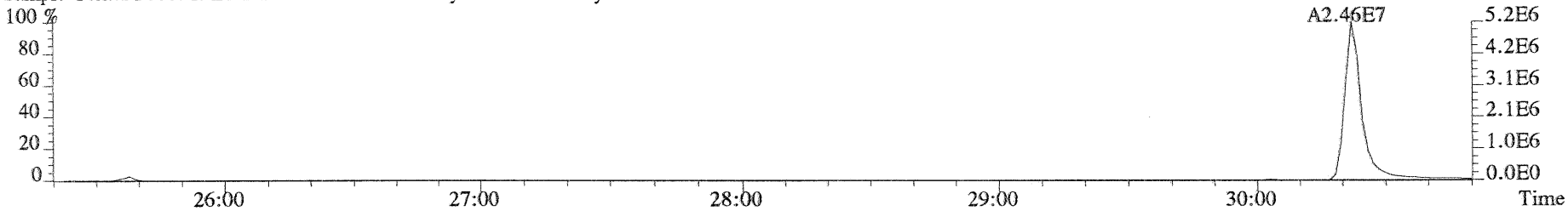
File:05AUG19Z #1-520 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



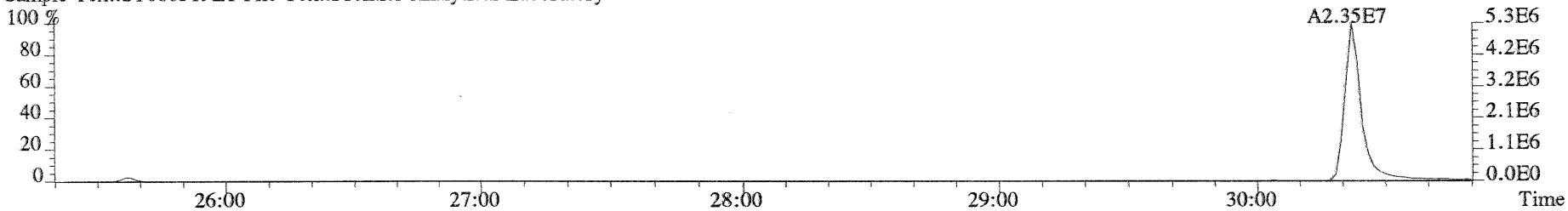
File:05AUG19Z #1-520 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



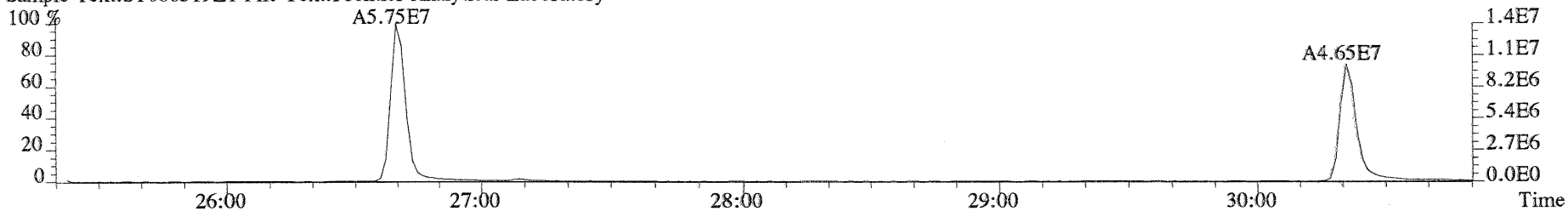
File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



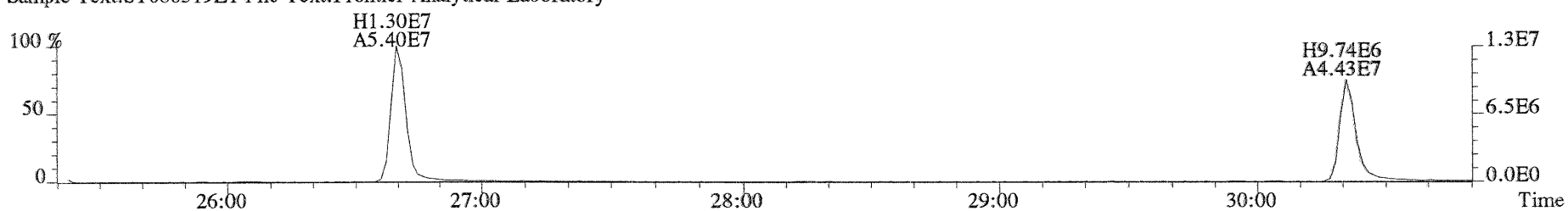
File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



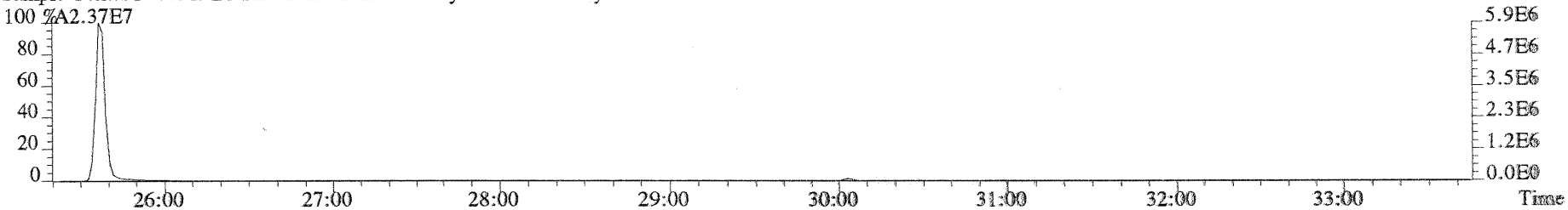
File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 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:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 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:ST080519Z1 File Text:Frontier Analytical Laboratory



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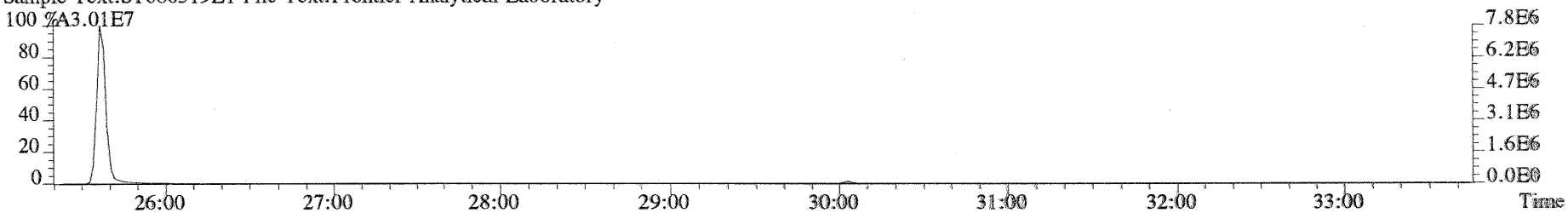
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



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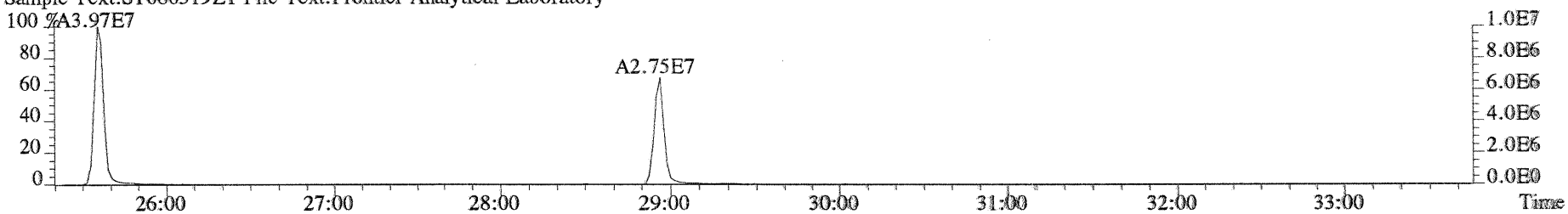
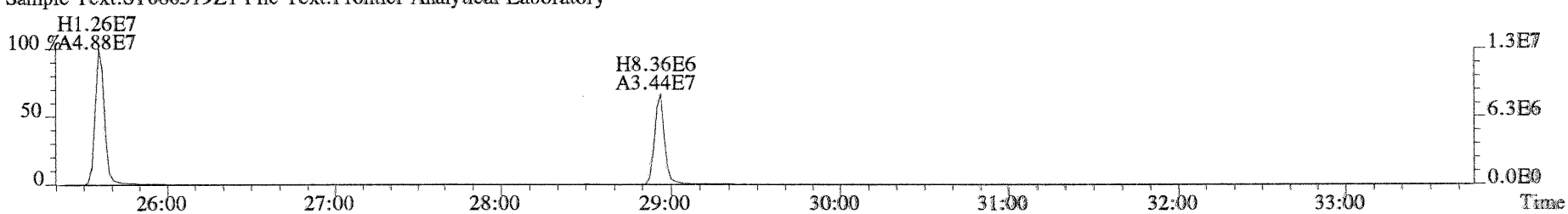
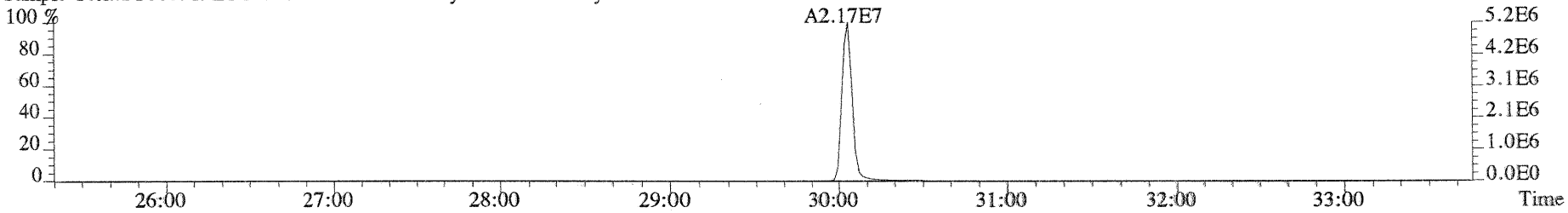
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 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:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 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:ST080519Z1 File Text:Frontier Analytical Laboratory



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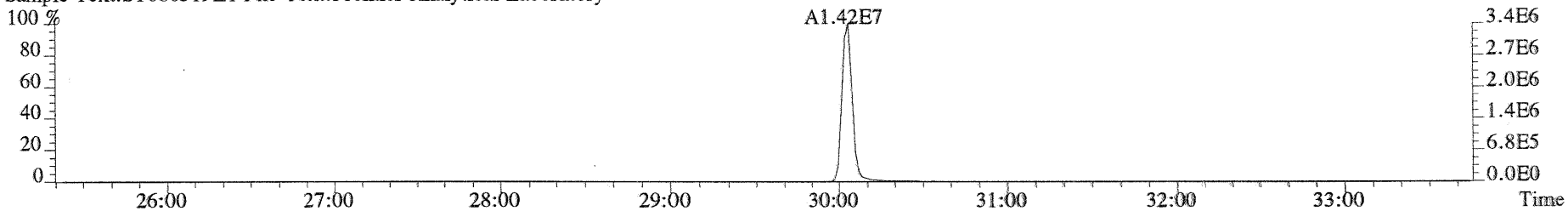
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
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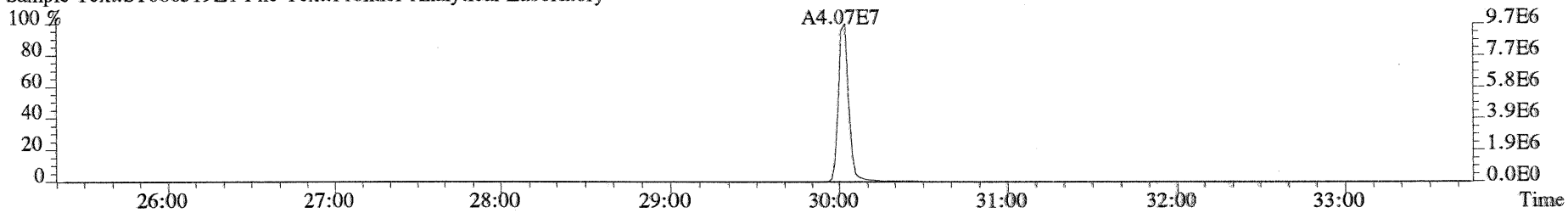
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



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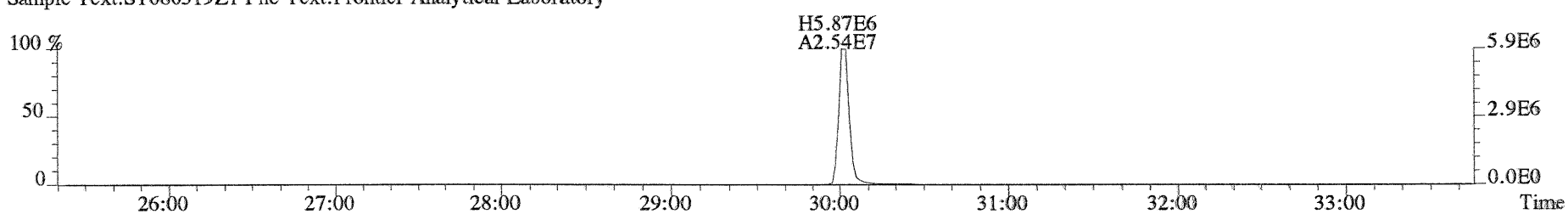
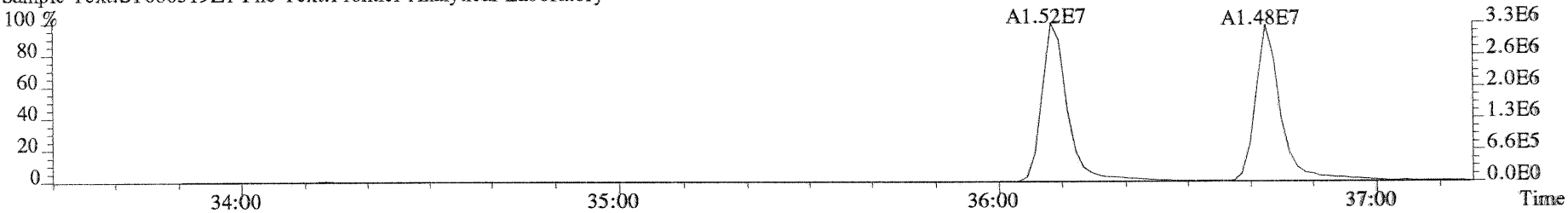
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 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:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
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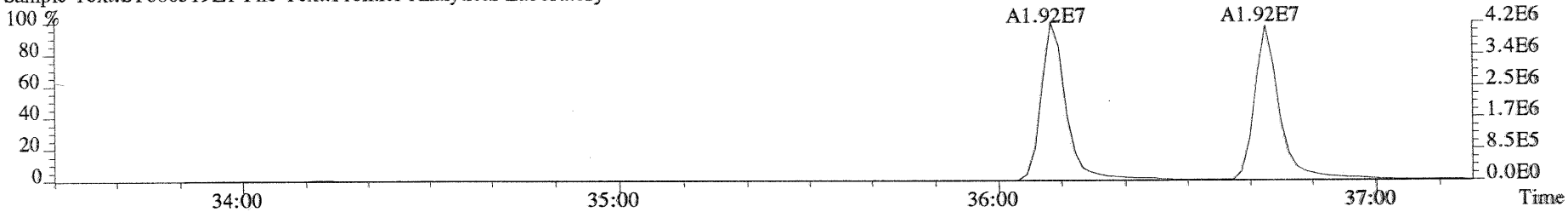
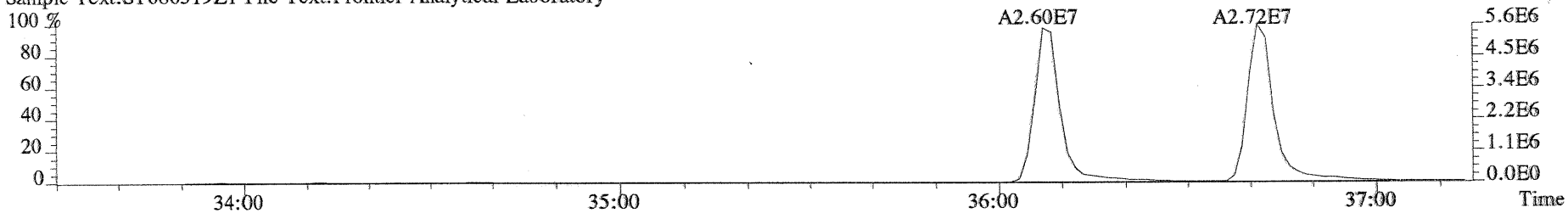
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 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:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
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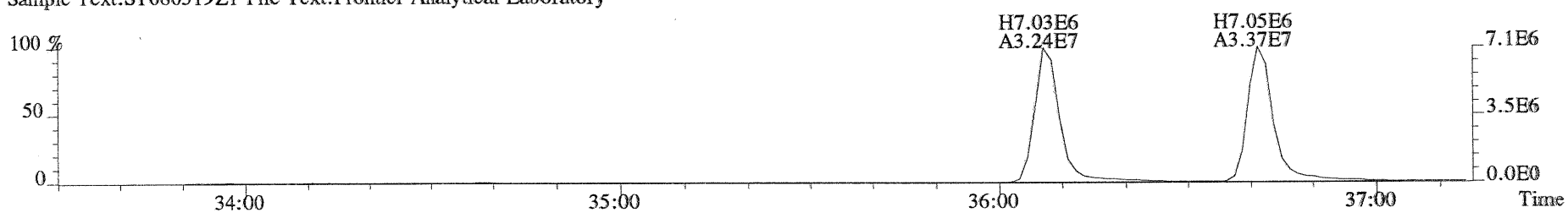
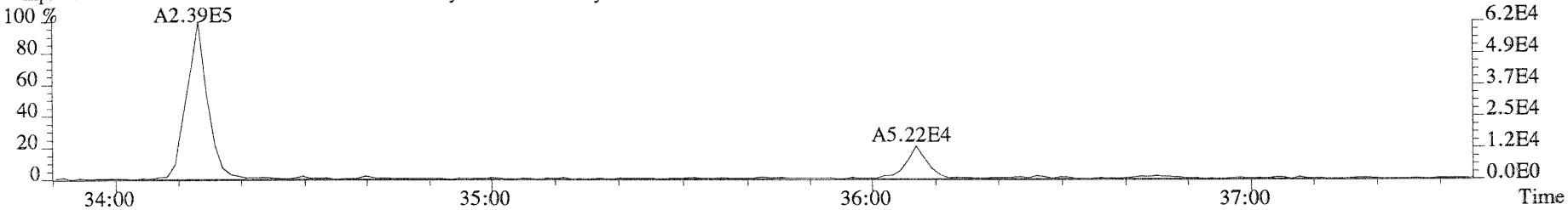
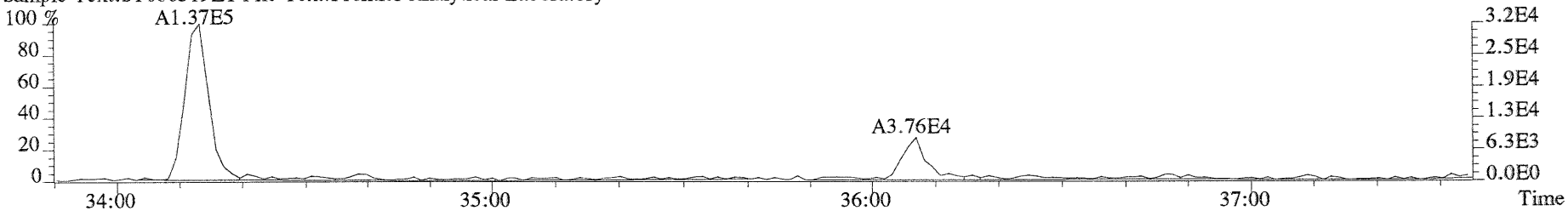
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



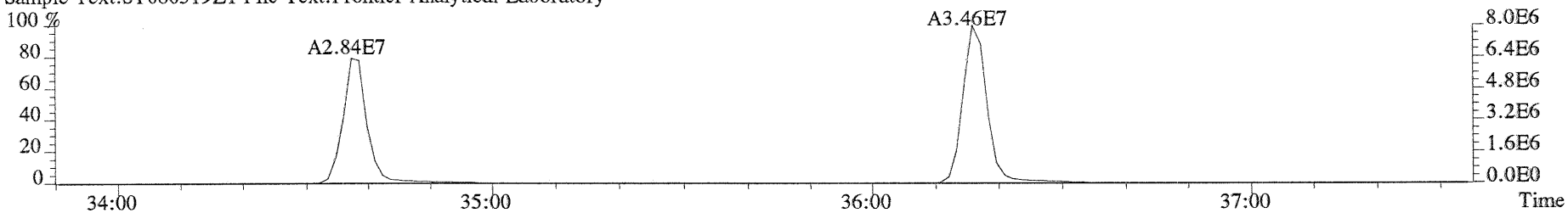
File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 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:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 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:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
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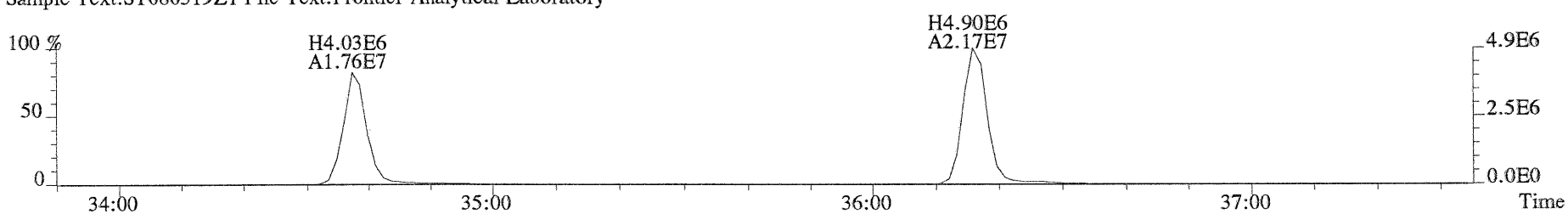
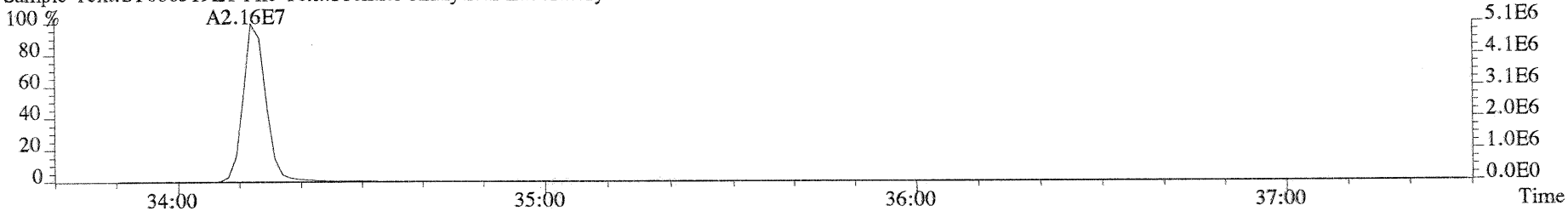
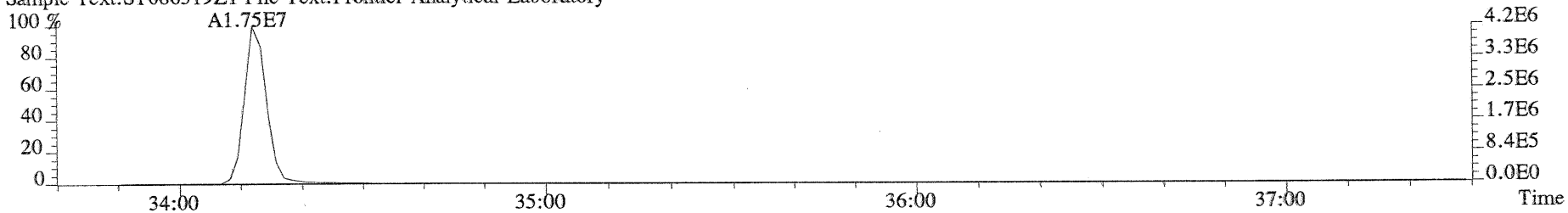
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



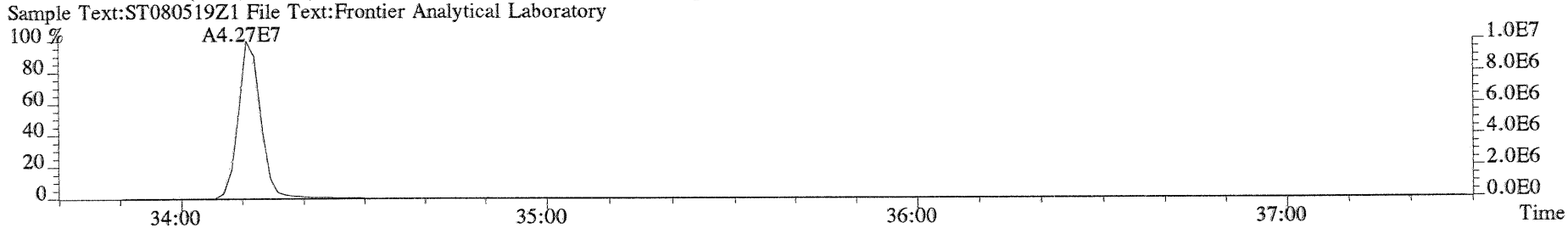
File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



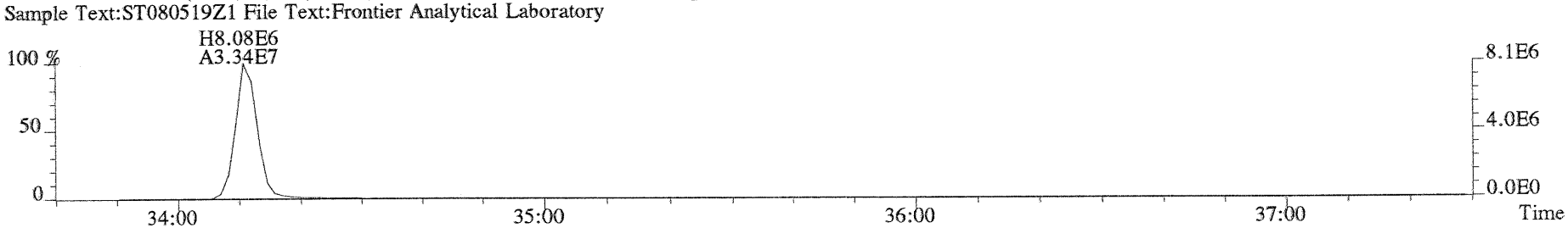
File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



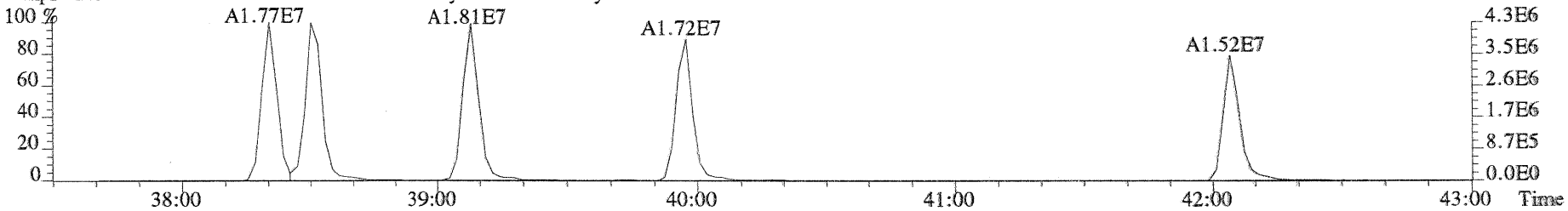
File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



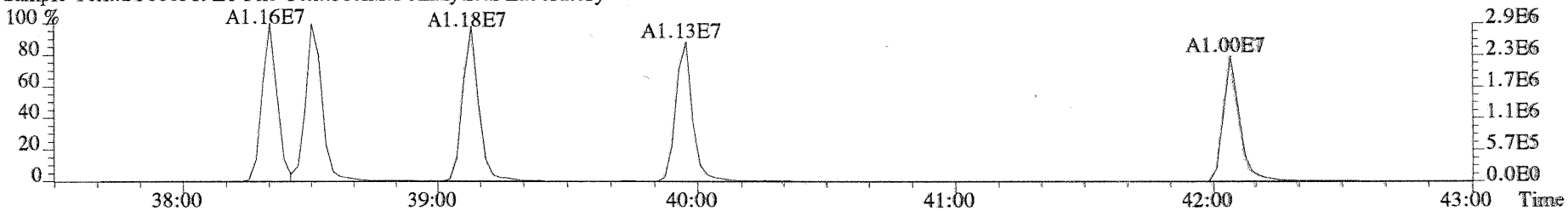
File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 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:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 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:ST080519Z1 File Text:Frontier Analytical Laboratory



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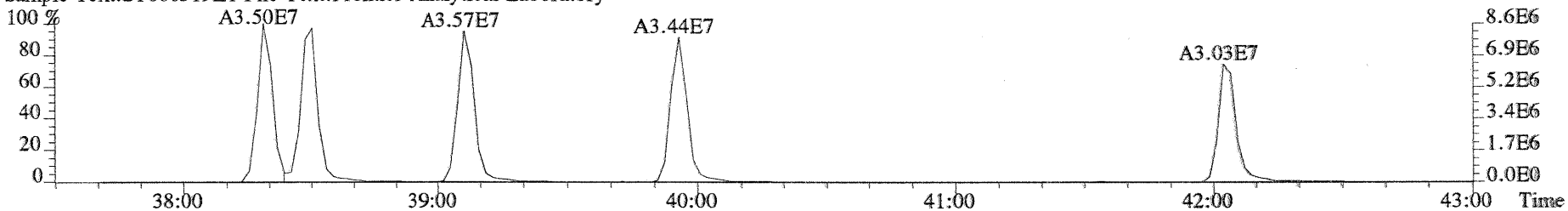
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



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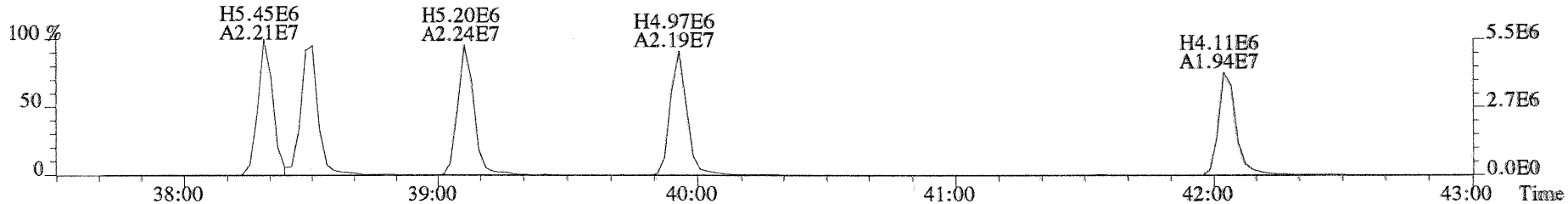
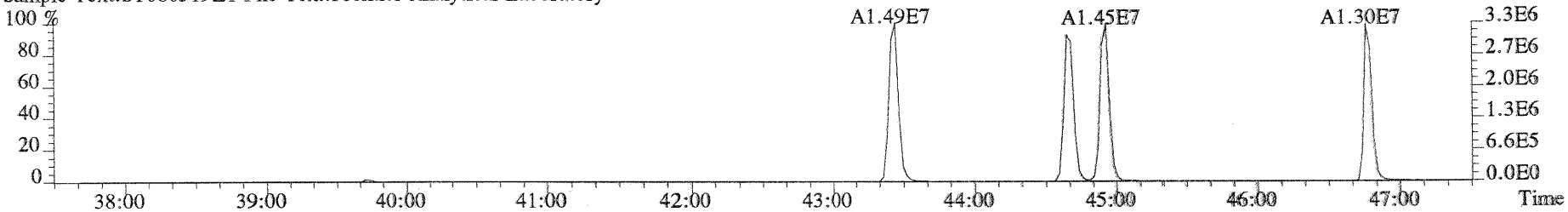
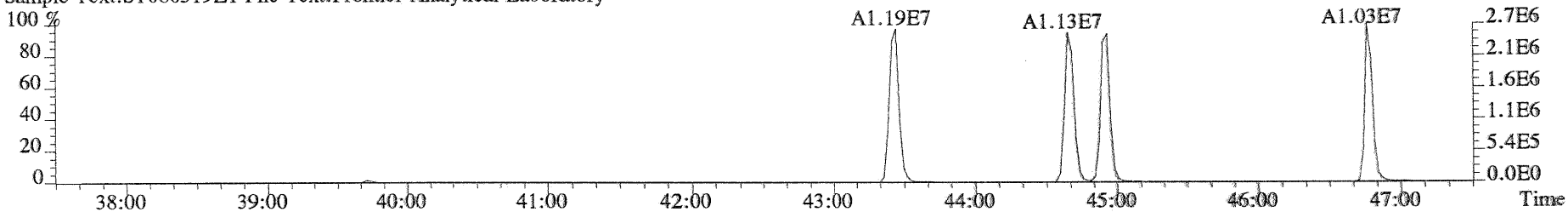
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



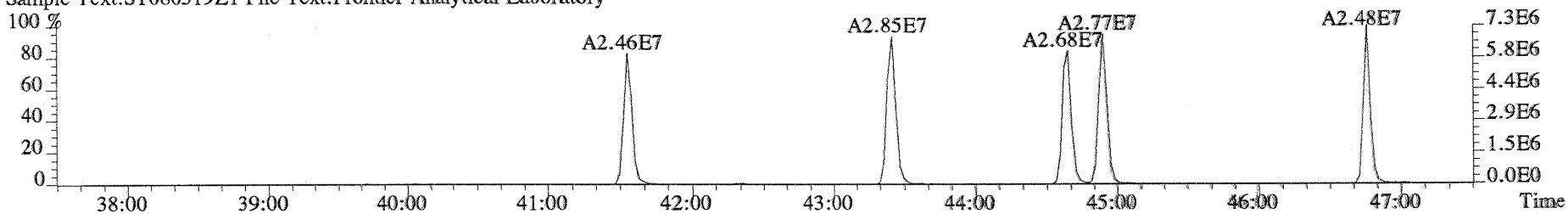
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 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:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 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:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
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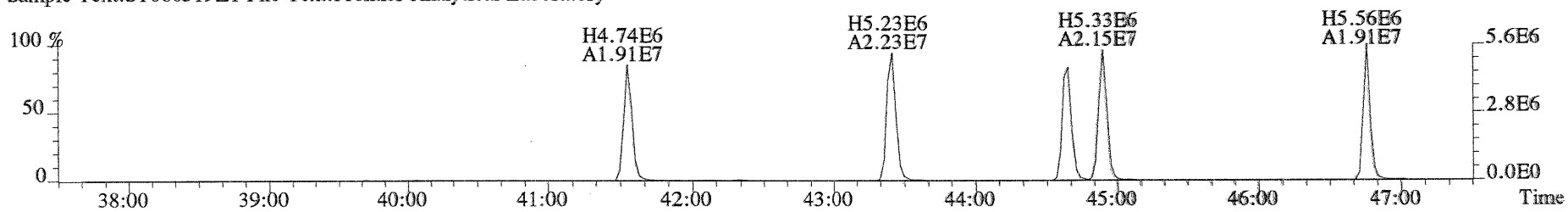
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
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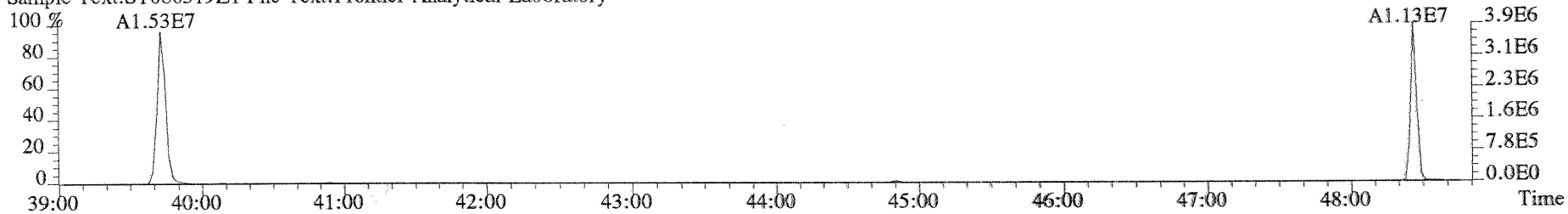
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
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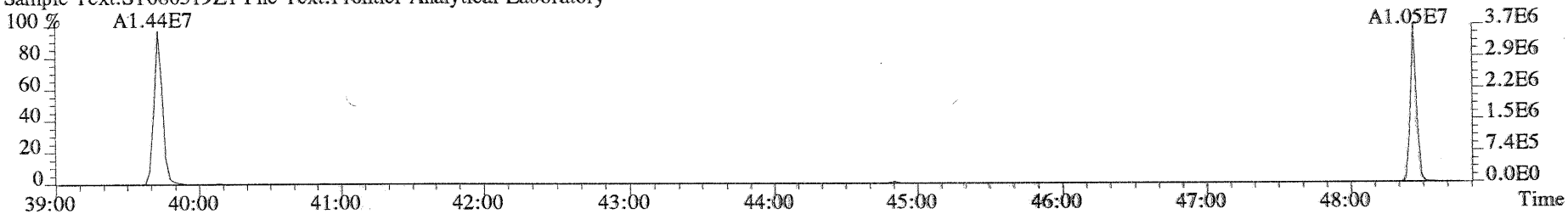
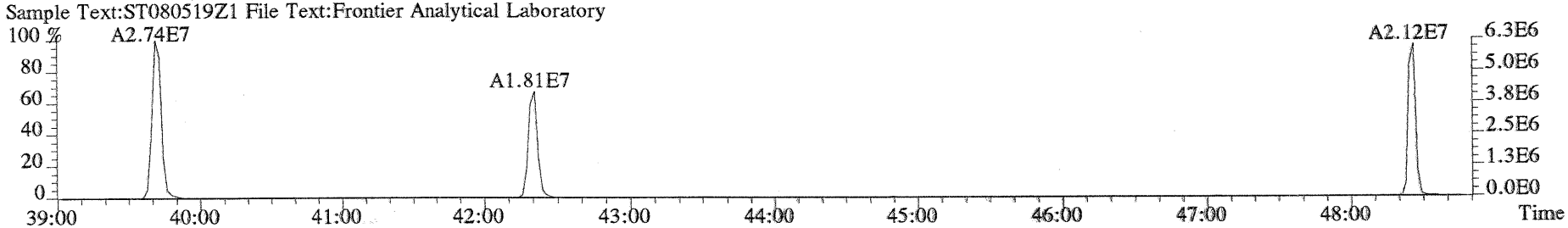
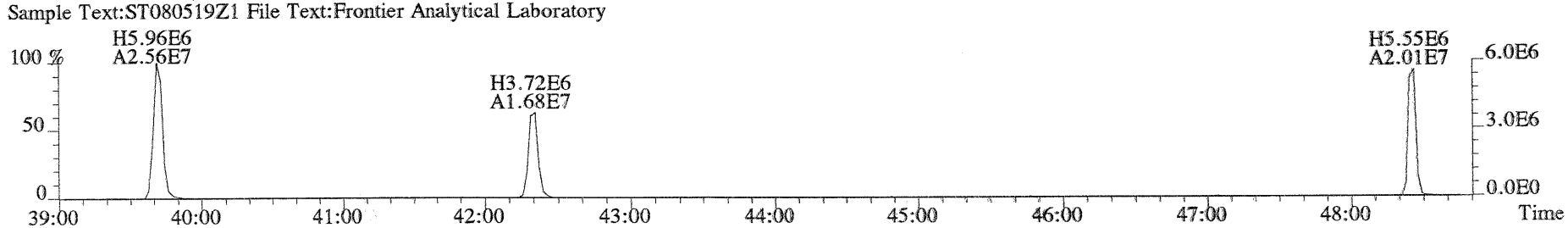
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



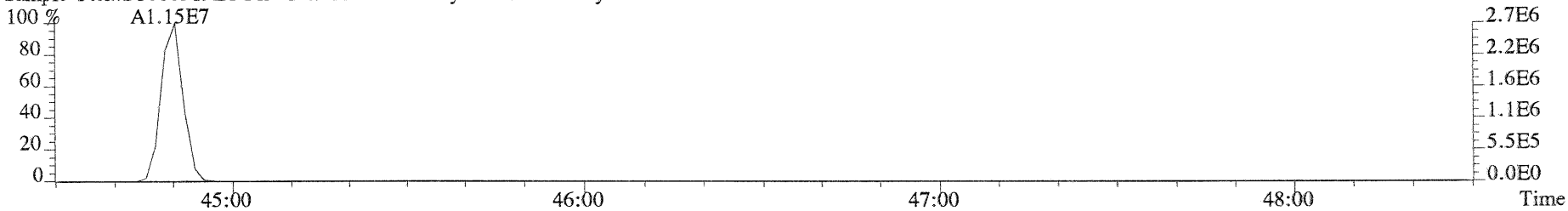
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



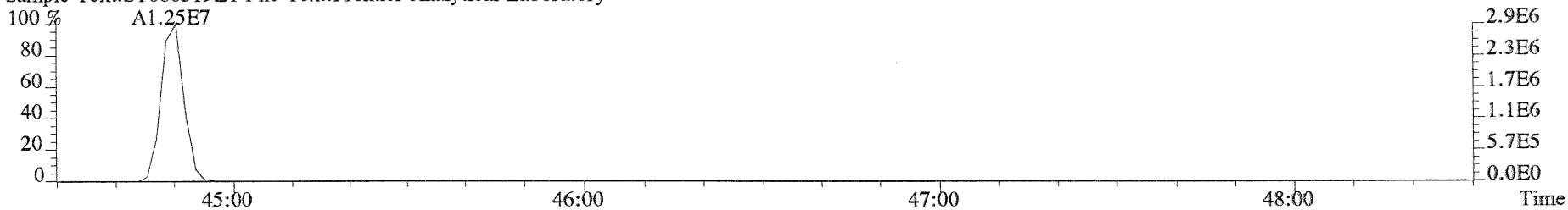
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



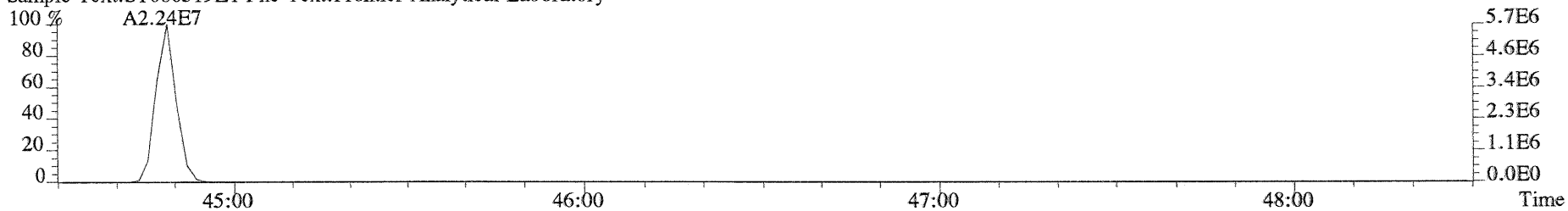
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



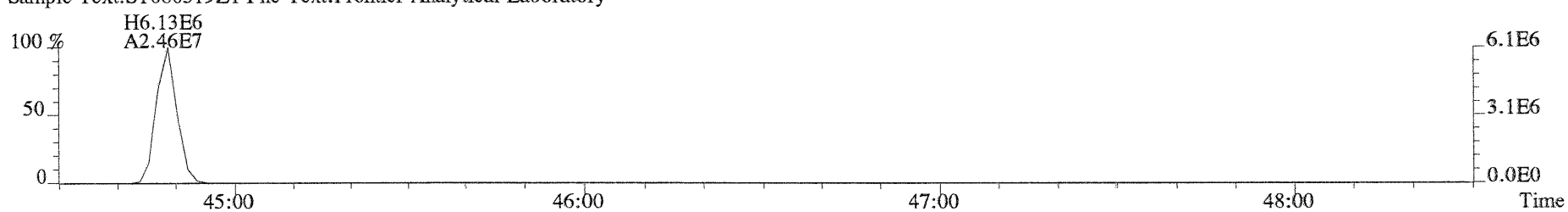
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



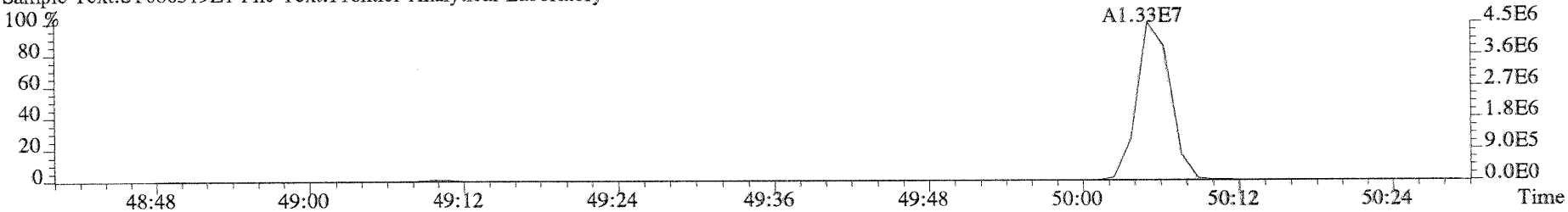
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



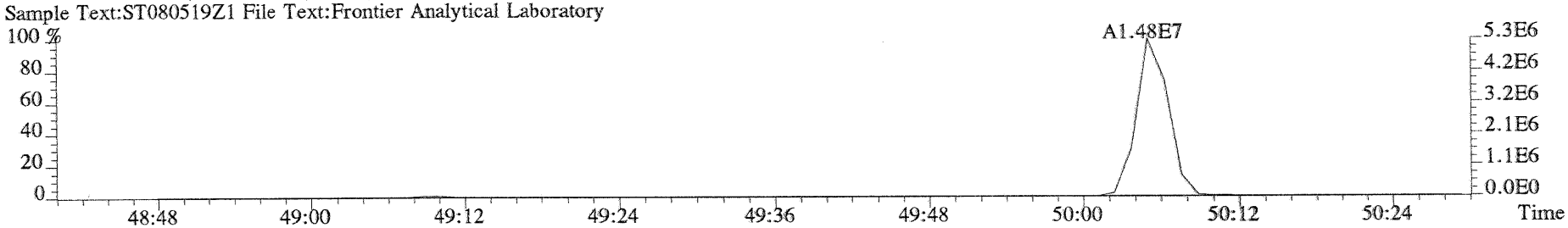
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



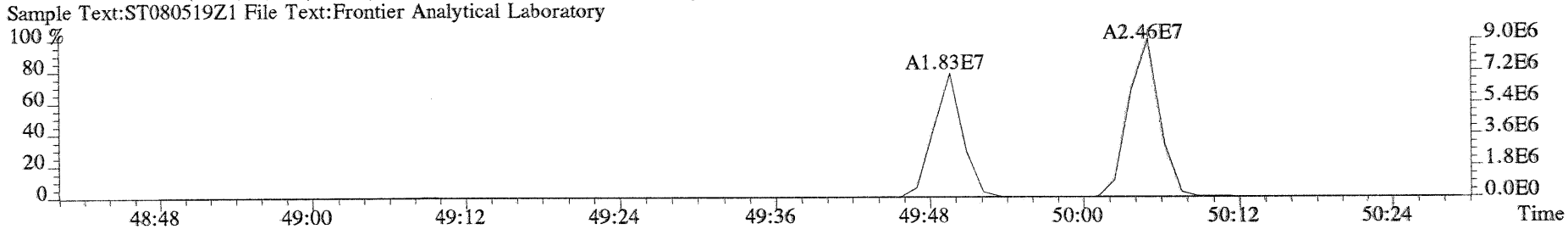
File:05AUG19Z #1-307 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



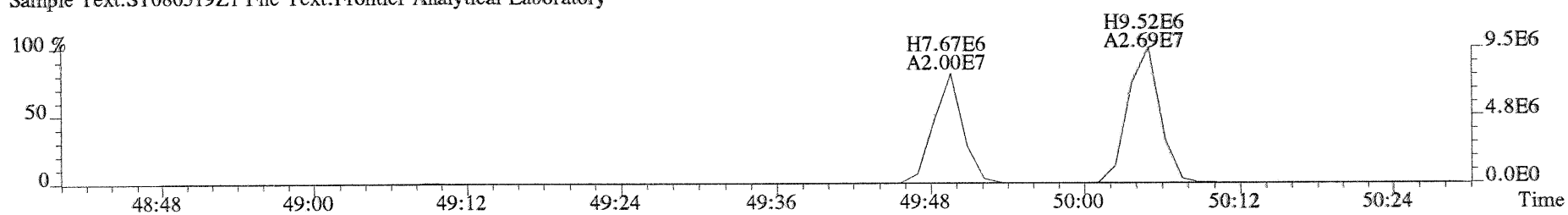
File:05AUG19Z #1-307 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



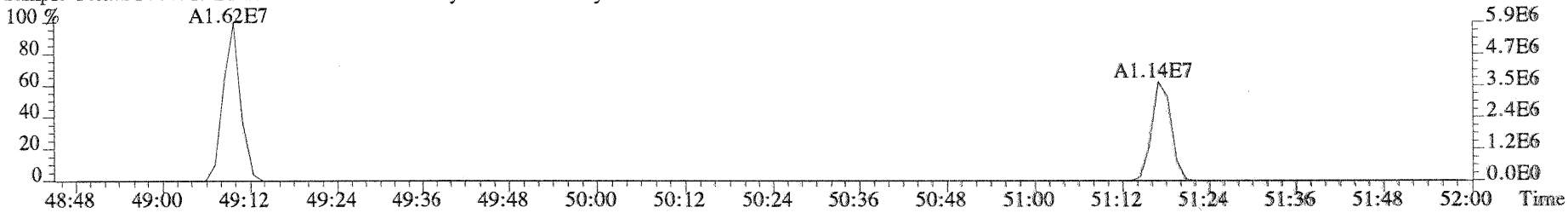
File:05AUG19Z #1-308 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



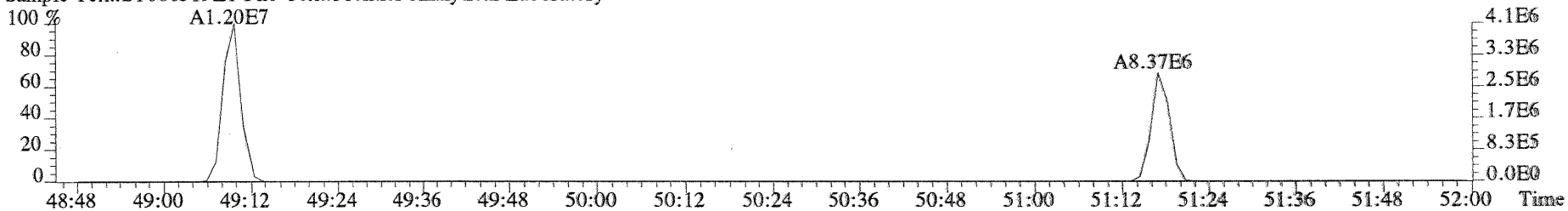
File:05AUG19Z #1-308 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



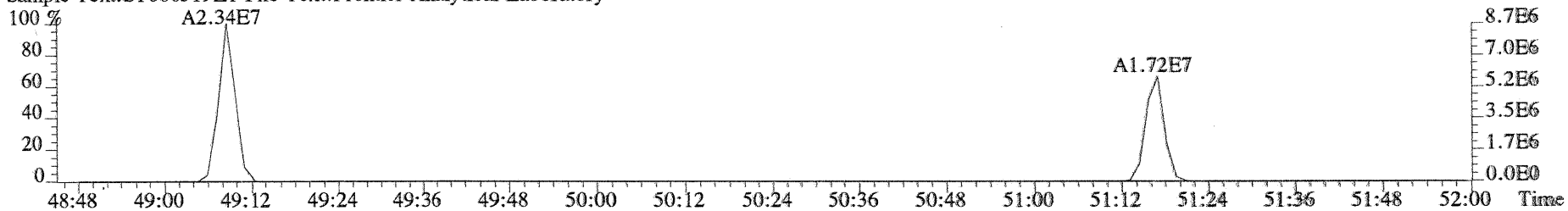
File:05AUG19Z #1-308 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



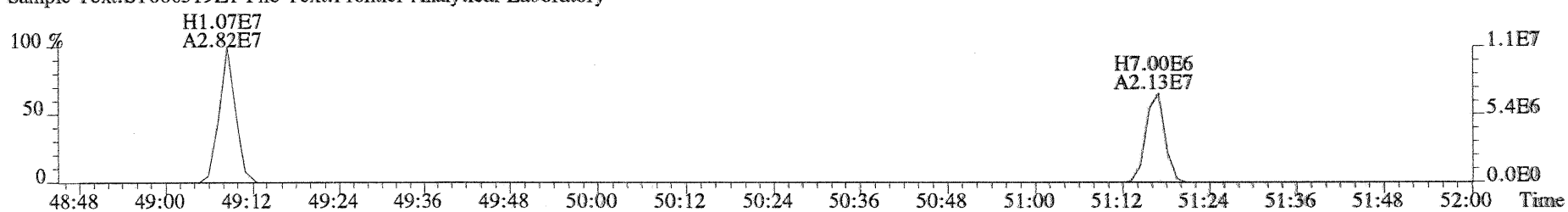
File:05AUG19Z #1-309 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



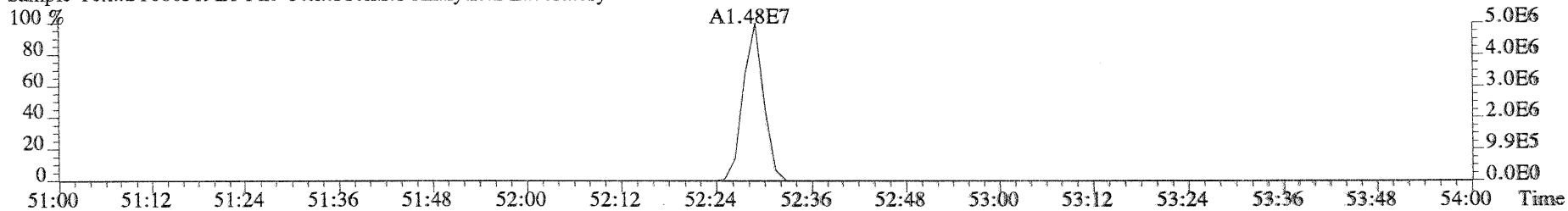
File:05AUG19Z #1-309 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



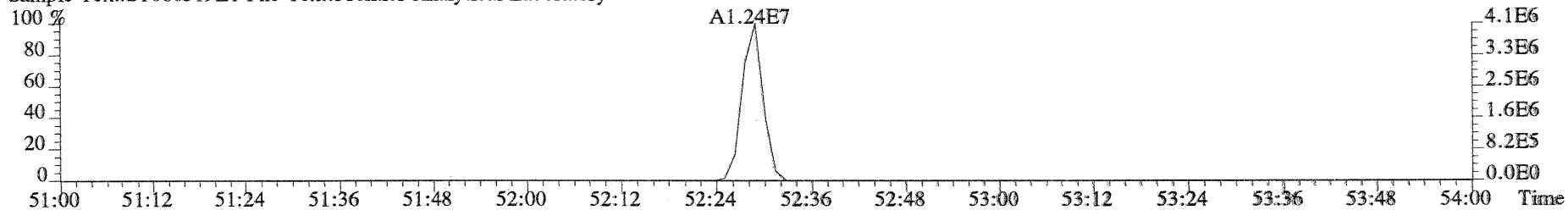
File:05AUG19Z #1-309 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



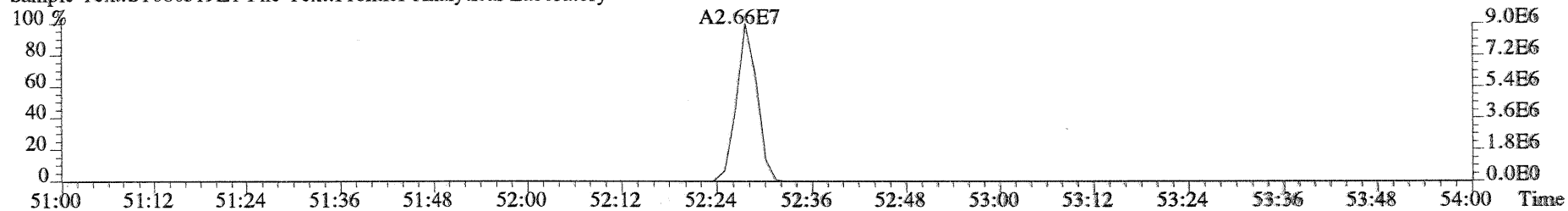
File:05AUG19Z #1-310 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



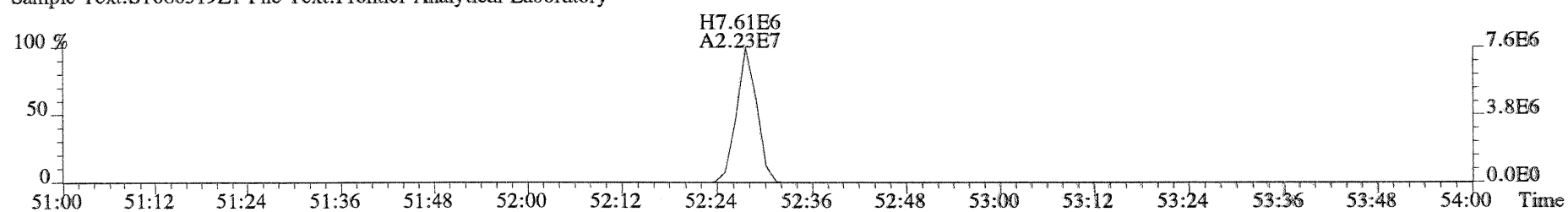
File:05AUG19Z #1-310 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



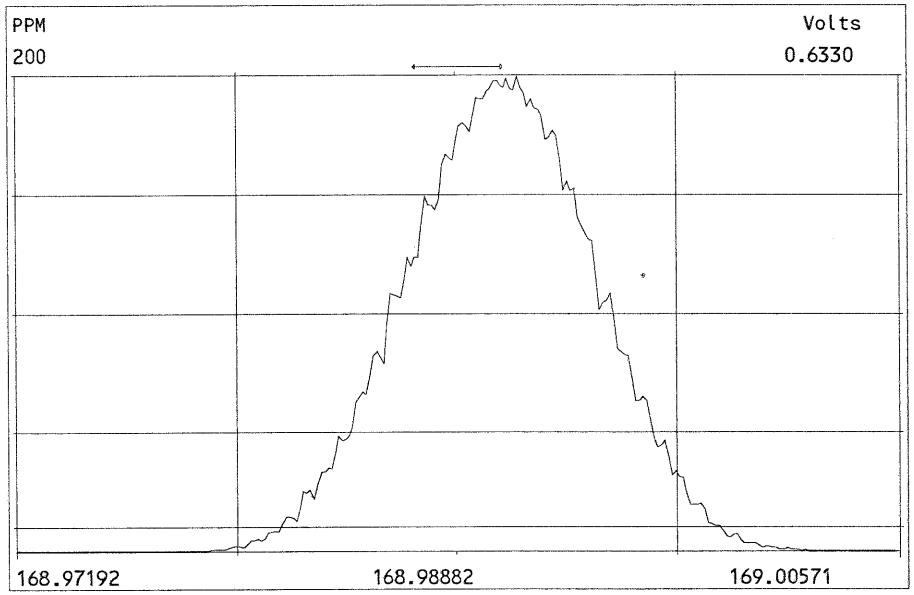
File:05AUG19Z #1-310 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory

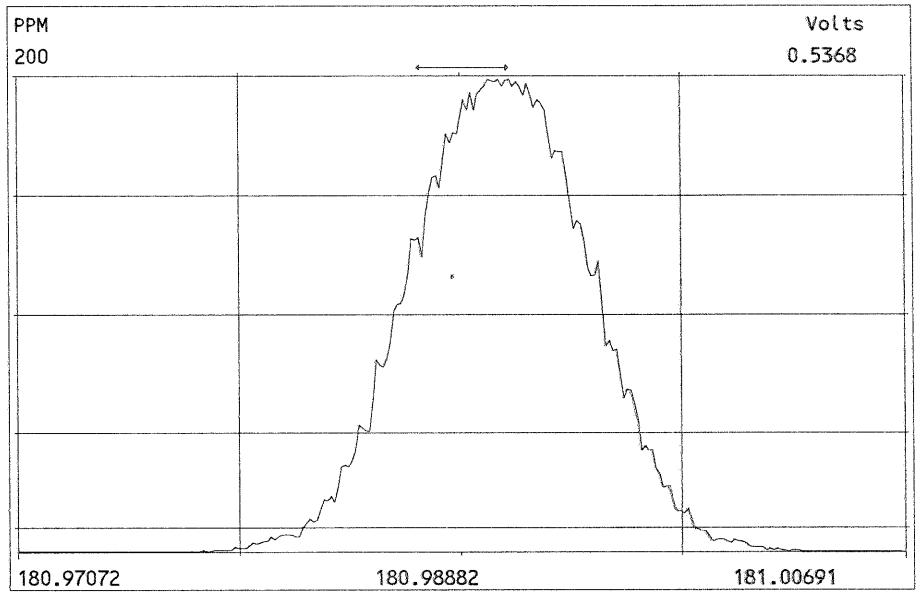


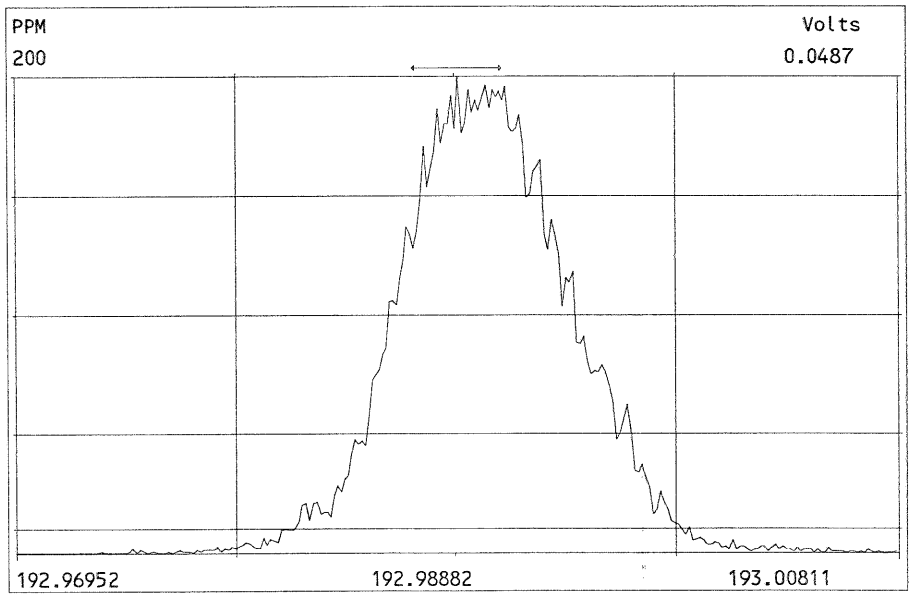
File:05AUG19Z #1-310 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory

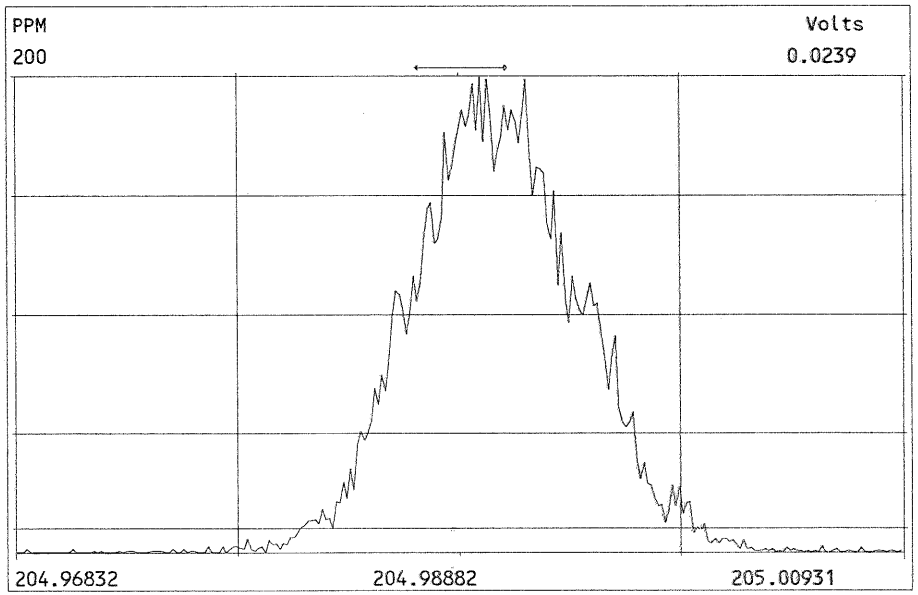


Peak Locate Examination: 6-AUG-2019:01:39 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

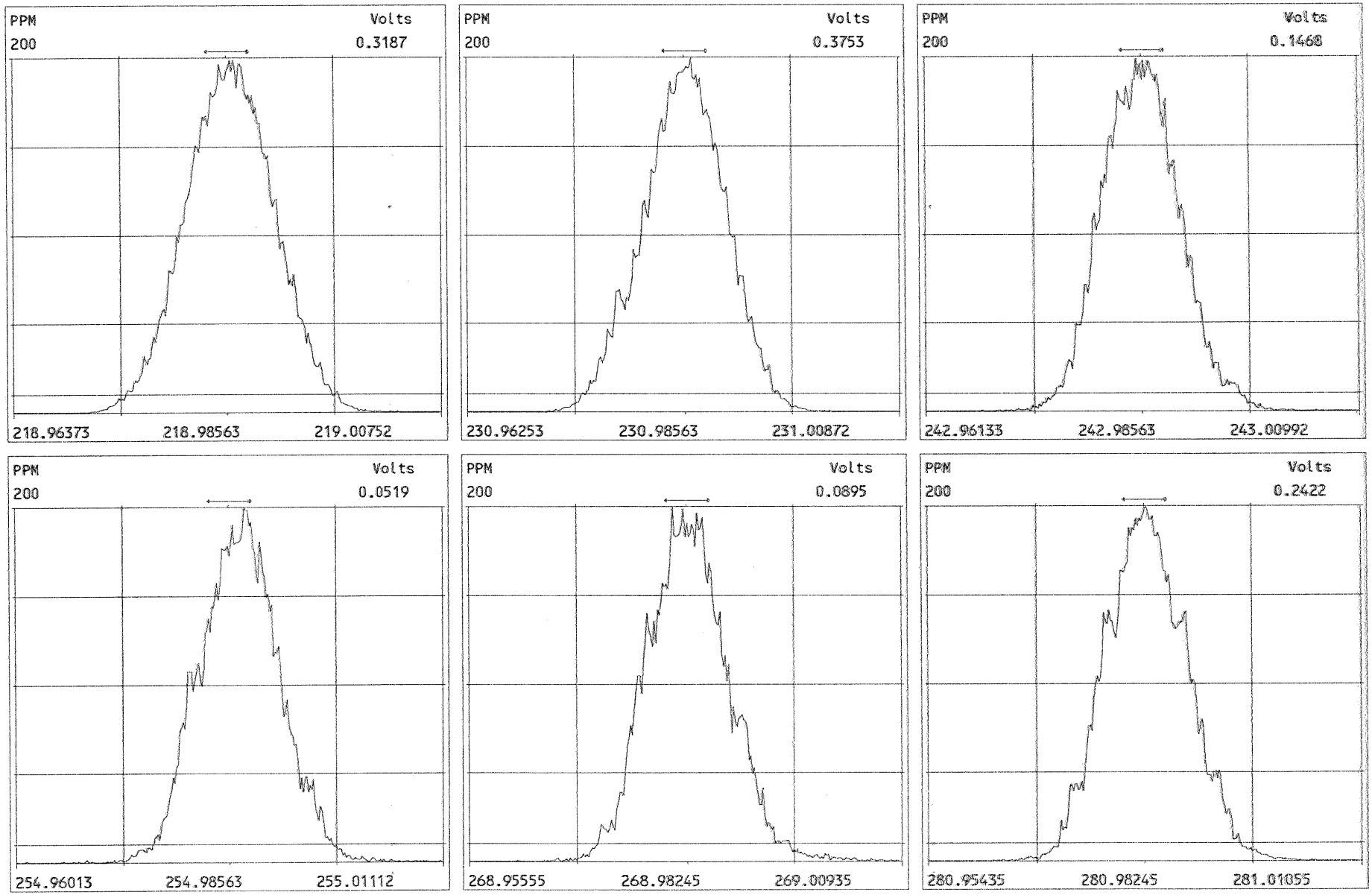




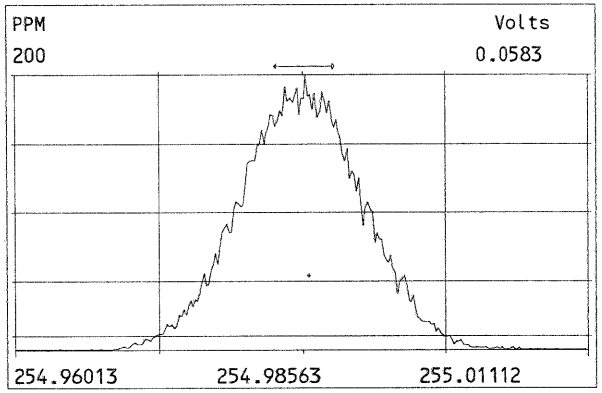


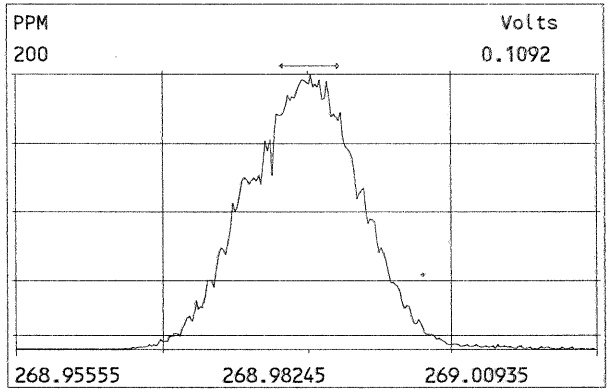


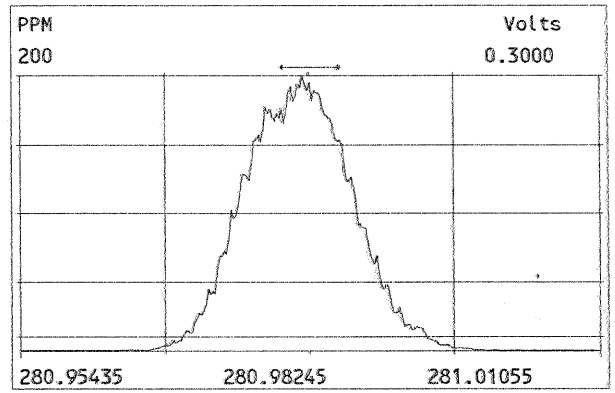
Peak Locate Examination: 6-AUG-2019:01:41 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

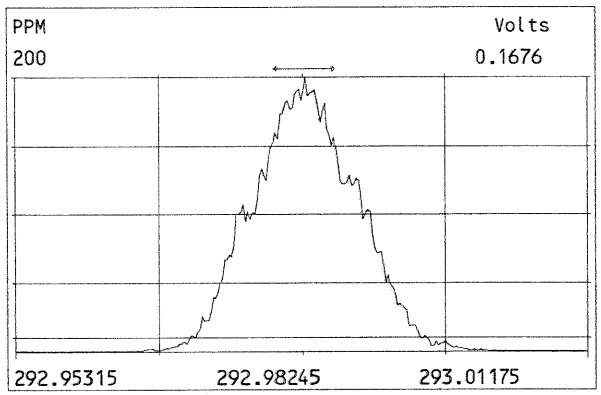


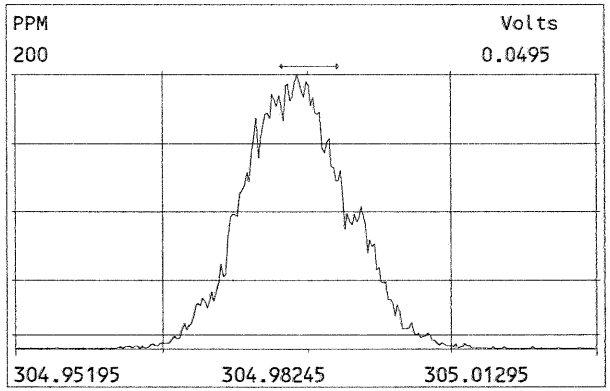
Peak Locate Examination: 6-AUG-2019:01:43 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

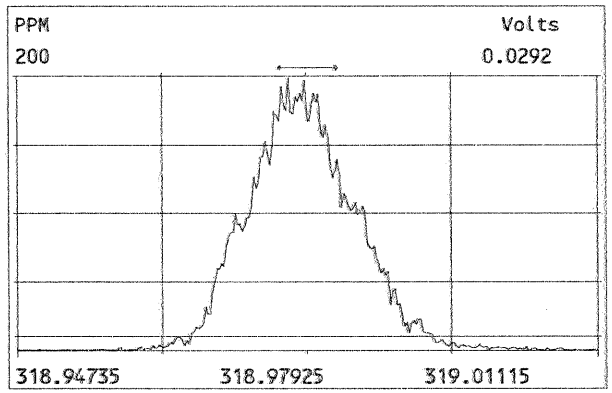


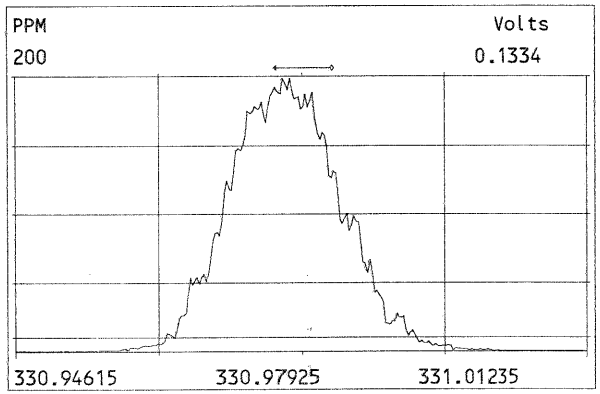


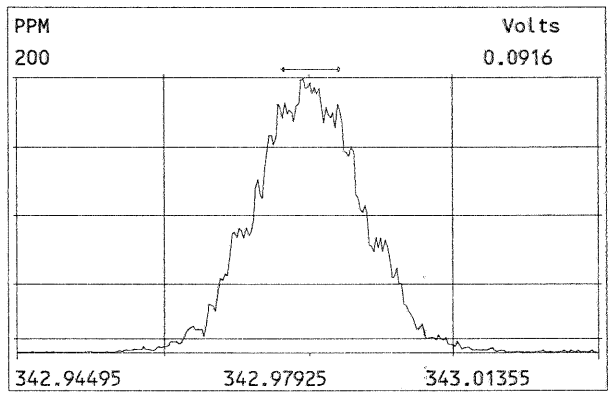




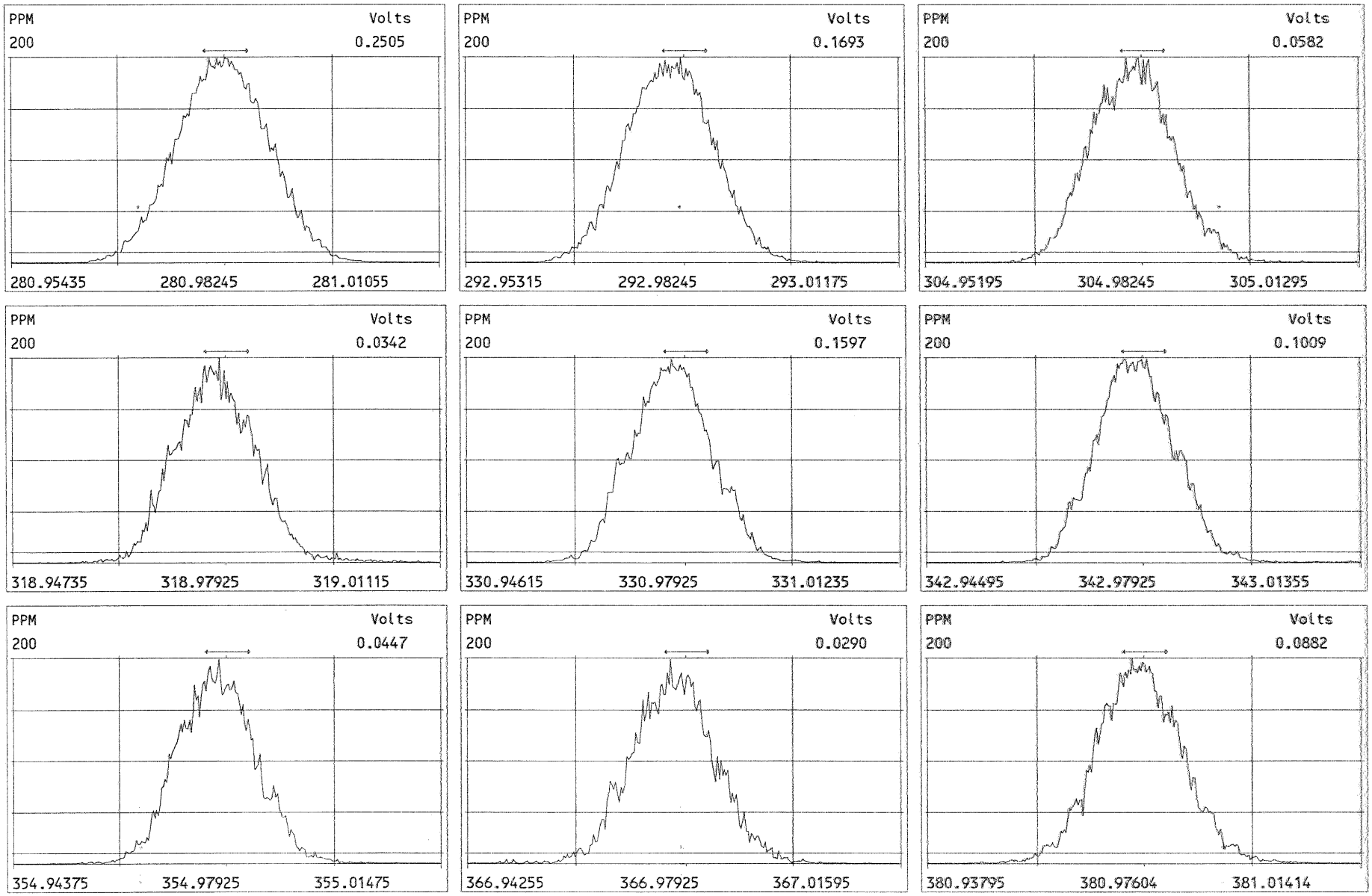




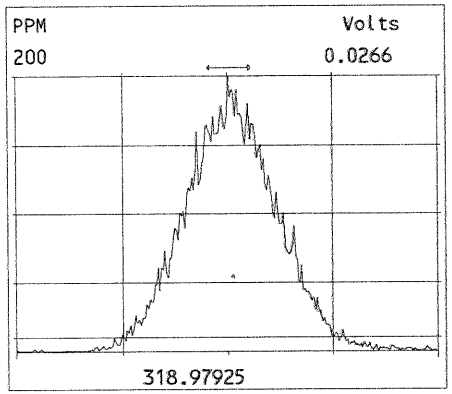


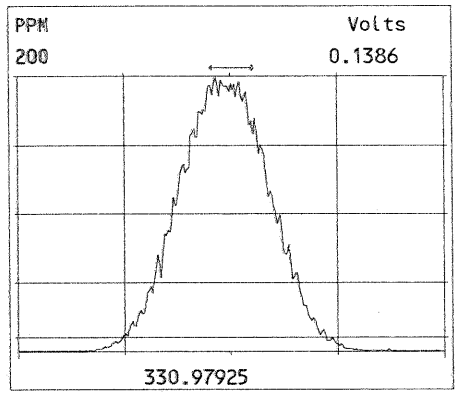


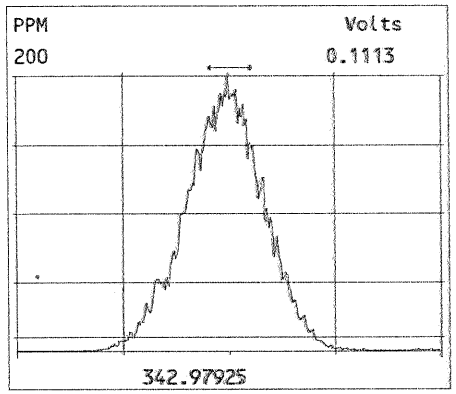
Peak Locate Examination: 6-AUG-2019:01:46 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

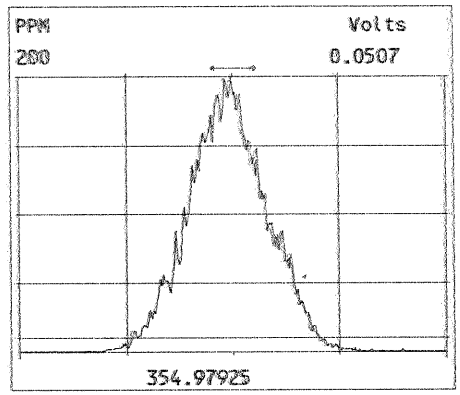


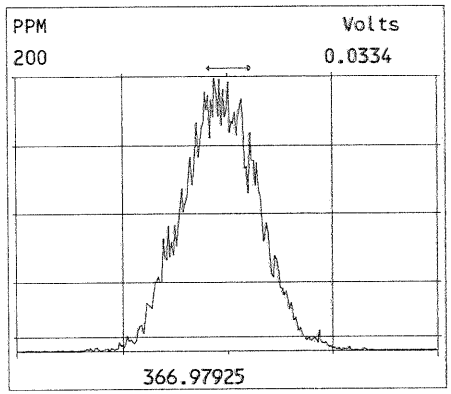
Peak Locate Examination: 6-AUG-2019:01:48 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

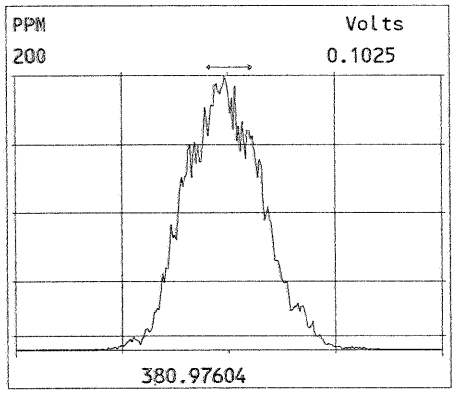


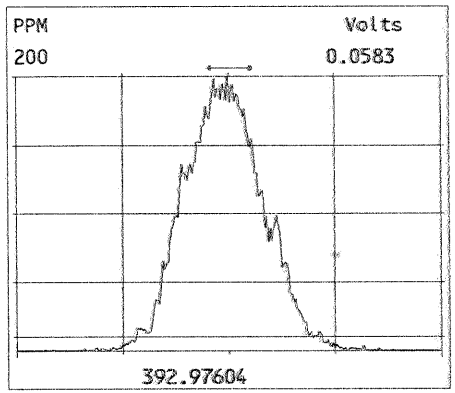


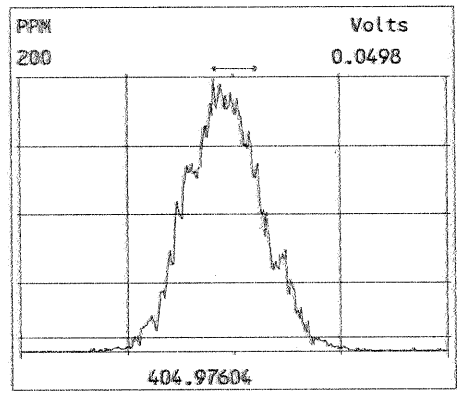


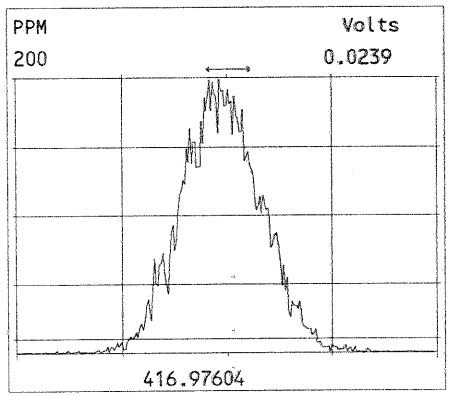


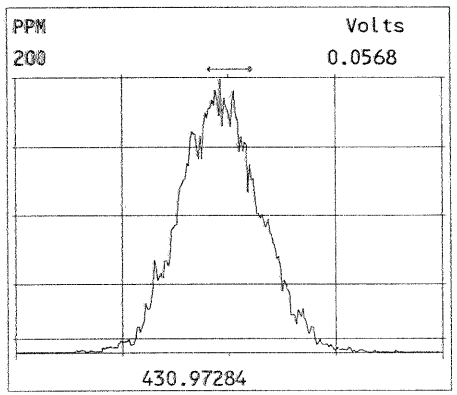


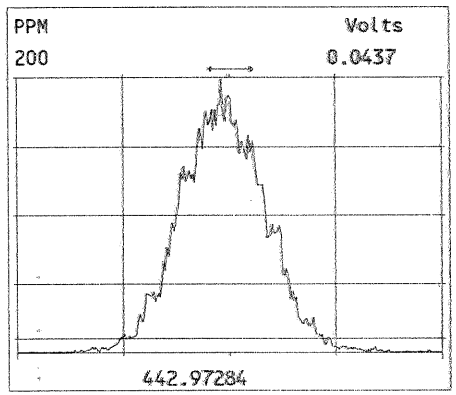




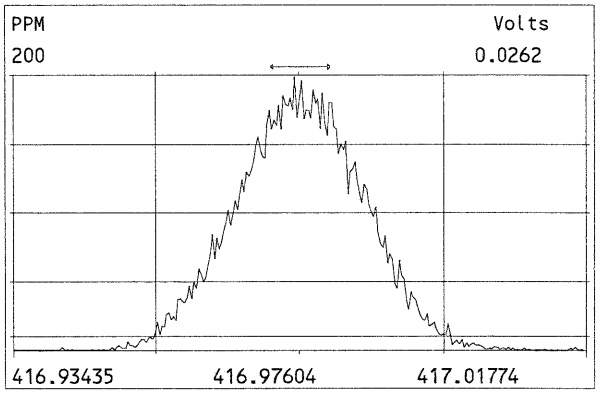


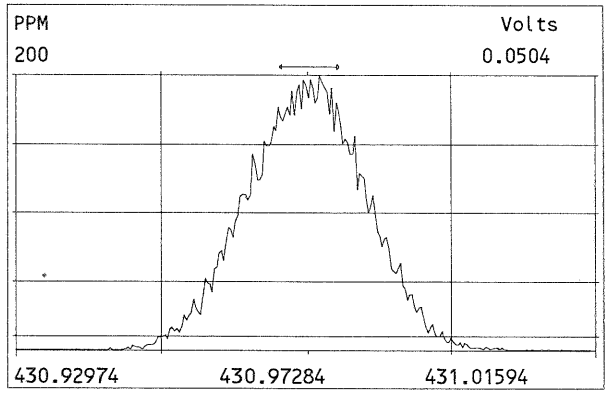


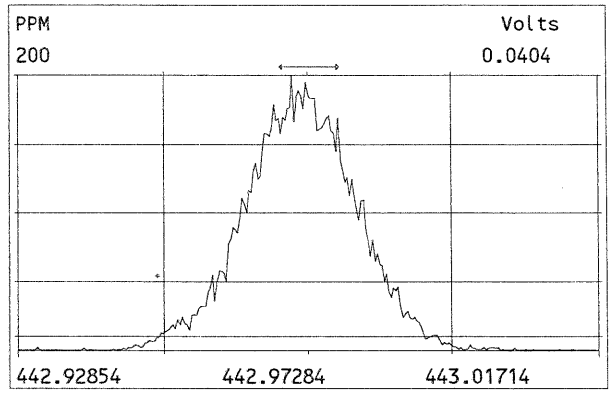


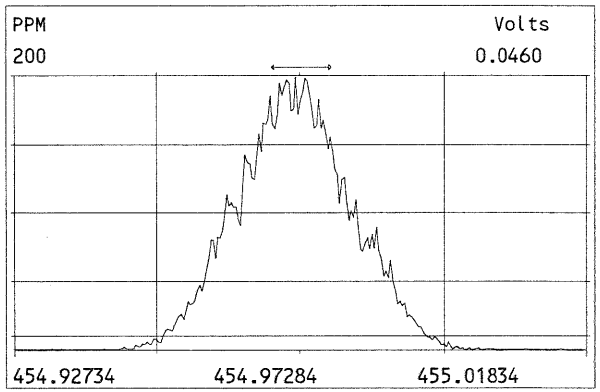


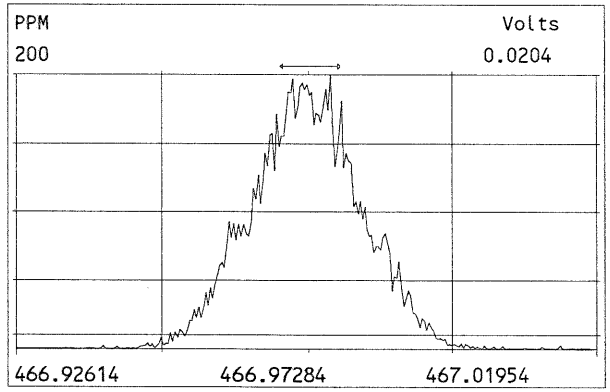
Peak Locate Examination: 6-AUG-2019:01:50 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

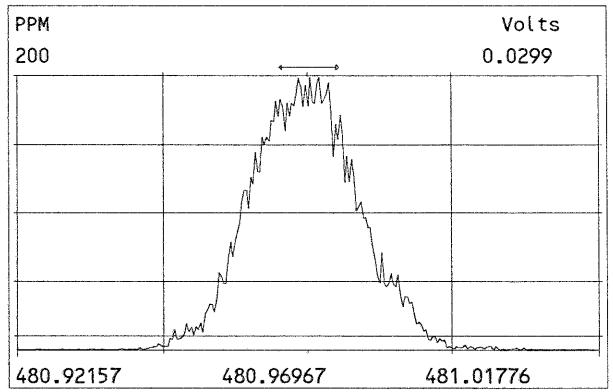


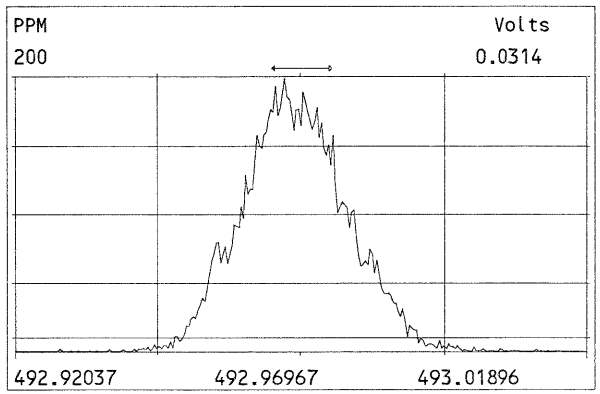


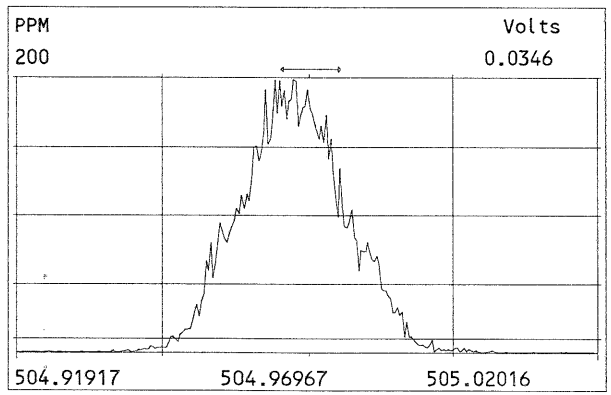


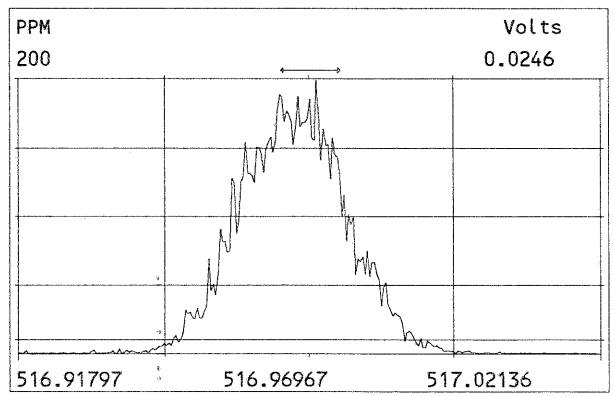












Cal: DAILY209FAL4-8-5-19

Run: 05AUG19Z Analyte: Results: 12511-9 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:05AUG19Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.1879	-	1.19	
13C-PCB-1	0.9159	-	0.92	
PCB-2	1.1744	-	1.17	
PCB-3	1.2248	-	1.22	
13C-PCB-3	0.8660	-	0.87	
PCB-4	1.2476	-	1.25	
PCB-10	1.3017	-	1.30	
13C-PCB-4	0.7126	-	0.71	
PCB-9	1.3663	*	1.37	
PCB-7	1.3641	-	1.36	
PCB-6	1.5897	-	1.59	
PCB-8	1.3310	-	1.33	
PCB-5	1.3437	-	1.34	
PCB-14	1.3000	-	1.30	
PCB-11	1.1761	-	1.18	
PCB-13	1.2376	-	1.24	
PCB-12	1.2475	-	1.25	
PCB-15	1.1162	-	1.12	
13C-PCB-15	0.9536	-	0.95	
PCB-19	1.1868	-	1.19	
PCB-30	1.7112	-	1.71	
PCB-18	1.1278	-	1.13	
PCB-17	1.2728	-	1.27	
PCB-27	1.5849	-	1.58	
PCB-24	1.6699	*	1.67	
PCB-16	1.2369	-	1.24	
PCB-32	1.5995	*	1.60	
13C-PCB-19	0.5016	-	0.50	
13C-PCB-9	-	-	-	
PCB-34	1.2787	-	1.28	
PCB-23	1.2838	-	1.28	
PCB-29	1.2923	-	1.29	
PCB-26	1.2633	-	1.26	
PCB-25	1.2602	-	1.26	
PCB-31	1.2558	-	1.26	
PCB-28	1.5529	-	1.55	
PCB-20	1.2465	-	1.25	Co-elute PCB 21/33
PCB-21	1.2465	-	1.25	Co-elute PCB 20/33
PCB-33	1.2465	-	1.25	Co-elute PCB 20/21
PCB-22	1.3770	-	1.38	
PCB-36	1.2263	-	1.23	
PCB-39	1.2268	-	1.23	
PCB-38	1.2591	-	1.26	
PCB-35	1.1096	-	1.11	
PCB-37	1.1595	-	1.16	
13C-PCB-37	1.5201	-	1.52	

PCB-54	1.2266	-	1.23	
PCB-50	0.9329	-	0.93	
PCB-53	0.9076	-	0.91	
PCB-51	0.9245	-	0.92	
PCB-45	0.7773	-	0.78	
PCB-46	0.7399	-	0.74	
PCB-52	0.8904	-	0.89	Co-elute PCB 69
PCB-69	0.8904	-	0.89	Co-elute PCB 52
PCB-73	1.1489	-	1.15	
PCB-43	0.7905	-	0.79	Co-elute PCB 49
PCB-49	0.7905	-	0.79	Co-elute PCB 43
PCB-47	0.8741	-	0.87	
PCB-48	1.0004	-	1.00	Co-elute PCB 75
PCB-75	1.0004	-	1.00	Co-elute PCB 48
PCB-65	1.0057	-	1.01	
PCB-62	1.0721	-	1.07	
PCB-44	0.6828	-	0.68	
PCB-42	0.9033	-	0.90	Co-elute PCB 59
PCB-59	0.9033	-	0.90	Co-elute PCB 42
PCB-72	0.9872	-	0.99	Co-elute PCB 41/71/64
PCB-41	0.9872	-	0.99	Co-elute PCB 72/71/64
PCB-71	0.9872	-	0.99	Co-elute PCB 72/41/64
PCB-64	0.9872	-	0.99	Co-elute PCB 72/41/71
PCB-68	1.1226	-	1.12	
PCB-40	0.6325	-	0.63	
PCB-57	1.0260	-	1.03	
PCB-67	0.9528	-	0.95	
PCB-58	1.1090	-	1.11	
PCB-63	1.0173	-	1.02	
PCB-74	0.9894	-	0.99	
PCB-61	0.9523	-	0.95	Co-elute PCB 70
PCB-70	0.9523	-	0.95	Co-elute PCB 61
PCB-76	1.0641	-	1.06	Co-elute PCB 66
PCB-66	1.0641	-	1.06	Co-elute PCB 76
PCB-80	1.2037	-	1.20	
PCB-55	1.0445	-	1.04	
13C-PCB-54	1.3618	-	1.36	
PCB-104	1.0962	-	1.10	
PCB-96	1.0327	-	1.03	
PCB-103	0.8143	-	0.81	
PCB-100	0.8149	-	0.81	
PCB-94	0.6680	-	0.67	
PCB-98	0.6776	-	0.68	Co-elute PCB 102
PCB-102	0.6776	-	0.68	Co-elute PCB 98
PCB-95	0.7768	*	0.78	
PCB-93	0.7321	-	0.73	
PCB-88	0.7558	-	0.76	Co-elute PCB 91
PCB-91	0.7558	-	0.76	Co-elute PCB 88
PCB-121	0.9418	-	0.94	
13C-PCB-104	1.0460	-	1.05	
13C-PCB-28	1.8187	-	1.82	
13C-PCB-52	-	-	-	

PCB-56	1.1428	-	1.14	Co-elute PCB 60
PCB-60	1.1428	-	1.14	Co-elute PCB 56
PCB-79	1.2231	-	1.22	
PCB-78	1.1655	-	1.17	
PCB-81	1.2917	-	1.29	
13C-PCB-81	1.3218	-	1.32	
PCB-77	1.1127	-	1.11	
13C-PCB-77	1.3882	-	1.39	
PCB-155	1.0308	-	1.03	
PCB-150	0.9638	-	0.96	
PCB-152	0.9491	-	0.95	
PCB-145	0.8953	-	0.90	
PCB-136	0.9736	-	0.97	
PCB-148	0.5954	-	0.60	
PCB-154	0.7850	-	0.78	
13C-PCB-155	1.4299	-	1.43	
13C-PCB-111	1.1162	-	1.12	
13C-PCB-101	-	-	-	
PCB-84	0.8552	-	0.86	Co-elute PCB 92
PCB-92	0.8552	-	0.86	Co-elute PCB 84
PCB-89	0.8833	-	0.88	
PCB-90	0.8908	-	0.89	Co-elute PCB 101
PCB-101	0.8908	-	0.89	Co-elute PCB 90
PCB-113	1.0567	-	1.06	
PCB-99	0.9688	-	0.97	
PCB-119	1.0730	-	1.07	
PCB-83	0.8747	-	0.87	Co-elute PCB 112
PCB-112	0.8747	-	0.87	Co-elute PCB 83
PCB-109	1.0130	-	1.01	
PCB-97	0.6795	-	0.68	
PCB-86	0.7728	*	0.77	
PCB-125	0.8971	-	0.90	Co-elute PCB 87/117
PCB-87	0.8971	-	0.90	Co-elute PCB 125/117
PCB-117	0.8971	-	0.90	Co-elute PCB 125/87
PCB-111	1.0371	-	1.04	Co-elute PCB 115
PCB-115	1.0371	-	1.04	Co-elute PCB 111
PCB-85	0.8537	-	0.85	Co-elute PCB 116
PCB-116	0.8537	-	0.85	Co-elute PCB 85
PCB-120	1.0363	-	1.04	
PCB-110	0.9896	-	0.99	
PCB-82	0.5699	-	0.57	
PCB-124	1.1245	*	1.12	
PCB-108	1.1047	-	1.10	Co-elute PCB 107
PCB-107	1.1047	-	1.10	Co-elute PCB 108
PCB-123	1.0324	-	1.03	
13C-PCB-123	1.3016	-	1.30	
PCB-118	1.0594	-	1.06	Co-elute PCB 106
PCB-106	1.0594	-	1.06	Co-elute PCB 118
13C-PCB-118	1.4351	-	1.44	
PCB-114	1.1883	-	1.19	
13C-PCB-114	1.3315	-	1.33	
PCB-122	1.0647	-	1.06	
PCB-105	1.1136	-	1.11	
13C-PCB-105	1.3637	-	1.36	
PCB-127	1.0300	-	1.03	
PCB-126	1.0819	-	1.08	
13C-PCB-126	1.2422	-	1.24	

PCB-151	0.8376	-	0.84	
PCB-135	0.9095	-	0.91	
PCB-144	0.9562	-	0.96	
PCB-147	0.9973	-	1.00	
PCB-139	1.0765	-	1.08	Co-elute PCB 149
PCB-149	1.0765	-	1.08	Co-elute PCB 139
PCB-140	1.0055	-	1.01	
PCB-143	0.8426	-	0.84	Co-elute PCB 134
PCB-134	0.8426	-	0.84	Co-elute PCB 143
PCB-131	0.8577	-	0.86	Co-elute PCB 133
PCB-133	0.8577	-	0.86	Co-elute PCB 131
PCB-142	0.8293	-	0.83	
PCB-165	1.1382	-	1.14	Co-elute PCB 146
PCB-146	1.1382	-	1.14	Co-elute PCB 165
PCB-161	1.0615	-	1.06	Co-elute PCB 132
PCB-132	1.0615	-	1.06	Co-elute PCB 161
PCB-153	1.1470	-	1.15	
PCB-168	1.2269	-	1.23	
PCB-141	0.8986	-	0.90	
PCB-137	0.8418	-	0.84	
PCB-130	0.8863	-	0.89	
PCB-138	1.1538	-	1.15	Co-elute PCB 163/164
PCB-163	1.1538	-	1.15	Co-elute PCB 138/164
PCB-164	1.1538	-	1.15	Co-elute PCB 138/163
PCB-158	1.2314	-	1.23	Co-elute PCB 160
PCB-160	1.2314	-	1.23	Co-elute PCB 158
PCB-129	0.8055	-	0.81	
PCB-166	1.1750	-	1.18	
PCB-159	1.2754	-	1.28	
PCB-128	1.0414	-	1.04	Co-elute PCB 162
PCB-162	1.0414	-	1.04	Co-elute PCB 128
PCB-167	1.1265	-	1.13	
13C-PCB-167	1.0995	-	1.10	
PCB-156	1.2045	-	1.20	
13C-PCB-156	1.0545	-	1.05	
PCB-157	1.1181	-	1.12	
13C-PCB-157	1.1345	-	1.13	
PCB-169	1.0731	-	1.07	
13C-PCB-169	1.0624	-	1.06	
PCB-188	1.0772	-	1.08	
13C-PCB-188	1.1339	-	1.13	

PCB-184	1.1867	-	1.19	
PCB-179	1.0838	-	1.08	
PCB-176	1.0702	-	1.07	
PCB-186	1.1017	-	1.10	
PCB-178	0.7467	-	0.75	
PCB-175	0.7448	-	0.74	
PCB-187	0.8543	-	0.85	Co-elute PCB 182
PCB-182	0.8543	-	0.85	Co-elute PCB 187
PCB-183	0.8219	-	0.82	
PCB-185	0.7514	-	0.75	
PCB-174	0.7780	-	0.78	
PCB-181	0.7432	-	0.74	
PCB-177	0.6849	-	0.68	
PCB-171	0.7583	-	0.76	
PCB-173	0.6686	-	0.67	
PCB-172	0.7010	-	0.70	
PCB-192	0.9230	-	0.92	
PCB-180	0.7017	-	0.70	
PCB-193	0.9942	-	0.99	
PCB-191	0.9633	-	0.96	
PCB-170	0.6892	-	0.69	
PCB-190	0.9493	-	0.95	
PCB-189	1.0456	-	1.05	
13C-PCB-189	0.9647	-	0.96	
PCB-202	1.0217	-	1.02	
PCB-201	1.0560	-	1.06	
PCB-204	1.0472	-	1.05	
PCB-197	1.0629	-	1.06	
PCB-200	1.0895	-	1.09	
PCB-198	0.7791	-	0.78	
PCB-199	0.7451	-	0.75	
PCB-203	0.8615	-	0.86	Co-elute PCB 196
PCB-196	0.8615	-	0.86	Co-elute PCB 203
13C-PCB-202	0.8734	-	0.87	
13C-PCB-178	0.7149	-	0.71	
13C-PCB-138	-	-	-	
PCB-195	0.7403	-	0.74	
PCB-194	0.8469	-	0.85	
PCB-205	1.0710	-	1.07	
13C-PCB-205	1.2827	-	1.28	
PCB-208	1.0613	-	1.06	
13C-PCB-208	1.2188	-	1.22	
PCB-207	1.1636	-	1.16	
PCB-206	1.0626	-	1.06	
13C-PCB-206	0.9148	-	0.91	
PCB-209	1.1242	-	1.12	
13C-PCB-209	1.1415	-	1.14	
13C-PCB-194	-	-	-	

Analyst: [illegible] Date: 8/6/19

Run #1 Filename 05AUG19Z S: 2 Acquired: 5-AUG-19 10:33:37 Cal: DAILY209FAL4-8-5-19
Client ID: SS080519Z1 Analyte: FAL ID: Daily 209 190408A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	9.22e+07	3.15 y	14:34	-	1.19	
2	IS/RT	13C-PCB-1	100.00	1.55e+08	3.22 y	14:33	-	0.916	
3	Unk	PCB-2	50.00	8.86e+07	3.16 y	16:47	-	1.17	
4	Unk	PCB-3	50.00	8.98e+07	3.15 y	16:60	-	1.22	
5	IS/RT	13C-PCB-3	100.00	1.47e+08	3.27 y	16:59	-	0.866	
6	Unk	PCB-4	50.00	7.53e+07	1.53 y	18:14	-	1.25	
7	Unk	PCB-10	50.00	9.18e+07	1.56 y	18:17	-	1.30	
8	IS/RT	13C-PCB-4	100.00	1.21e+08	1.56 y	18:13	-	0.713	
9	Unk	PCB-9	50.00	9.64e+07	1.56 y	19:55	-	1.37	
10	Unk	PCB-7	50.00	9.62e+07	1.58 y	19:57	-	1.36	
11	Unk	PCB-6	50.00	1.12e+08	1.60 y	20:32	-	1.59	
12	Unk	PCB-8	50.00	9.39e+07	1.54 y	20:55	-	1.33	
13	Unk	PCB-5	50.00	9.48e+07	1.55 y	20:56	-	1.34	
14	Unk	PCB-14	50.00	9.17e+07	1.53 y	21:57	-	1.30	
15	Unk	PCB-11	50.00	8.30e+07	1.57 y	23:05	-	1.18	
16	Unk	PCB-13	50.00	8.73e+07	1.50 y	23:26	-	1.24	
17	Unk	PCB-12	50.00	8.80e+07	1.59 y	23:29	-	1.25	
18	Unk	PCB-15	50.00	9.01e+07	1.44 y	23:45	-	1.12	
19	IS/RT	13C-PCB-15	100.00	1.62e+08	1.62 y	23:44	-	0.954	
20	Unk	PCB-19	50.00	5.04e+07	1.06 y	22:07	-	1.19	
21	Unk	PCB-30	50.00	7.27e+07	1.07 y	22:57	-	1.71	
22	Unk	PCB-18	50.00	4.79e+07	1.07 y	23:40	-	1.13	
23	Unk	PCB-17	50.00	5.41e+07	1.07 y	23:49	-	1.27	
24	Unk	PCB-27	50.00	6.73e+07	1.05 y	24:21	-	1.58	
25	Unk	PCB-24	50.00	7.09e+07	1.08 y	24:22	-	1.67	
26	Unk	PCB-16	50.00	5.25e+07	1.03 y	24:49	-	1.24	
27	Unk	PCB-32	50.00	6.79e+07	1.08 y	24:51	-	1.60	
28	IS/RT	13C-PCB-19	100.00	8.50e+07	1.07 y	22:05	-	0.502	
29	RS	13C-PCB-9	100.00	1.69e+08	1.59 y	19:53	1.69e+06	-	
30	Unk	PCB-34	50.00	7.89e+07	1.02 y	25:36	-	1.28	
31	Unk	PCB-23	50.00	7.92e+07	1.03 y	25:41	-	1.28	
32	Unk	PCB-29	50.00	7.97e+07	1.03 y	25:55	-	1.29	
33	Unk	PCB-26	50.00	7.80e+07	1.04 y	26:07	-	1.26	
34	Unk	PCB-25	50.00	7.78e+07	1.05 y	26:17	-	1.26	
35	Unk	PCB-31	50.00	7.75e+07	1.03 y	26:37	-	1.26	
36	Unk	PCB-28	50.00	9.58e+07	1.03 y	26:42	-	1.55	
37	Unk	PCB-20	150.00	2.31e+08	1.04 y	27:17	-	1.25	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	2.31e+08	1.04 y	27:17	-	1.25	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	2.31e+08	1.04 y	27:17	-	1.25	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	8.50e+07	1.02 y	27:43	-	1.38	
41	Unk	PCB-36	50.00	7.57e+07	1.02 y	28:17	-	1.23	
42	Unk	PCB-39	50.00	7.57e+07	1.03 y	28:45	-	1.23	
43	Unk	PCB-38	50.00	7.77e+07	1.01 y	29:28	-	1.26	
44	Unk	PCB-35	50.00	6.85e+07	1.00 y	29:58	-	1.11	
45	Unk	PCB-37	50.00	7.15e+07	0.98 y	30:23	-	1.16	
46	IS	13C-PCB-37	100.00	1.23e+08	1.05 y	30:22	-	1.52	

47	Unk	PCB-54	100.00	1.36e+08	0.81 y	25:39	-	1.23	
48	Unk	PCB-50	100.00	1.03e+08	0.77 y	26:45	-	0.933	
49	Unk	PCB-53	100.00	1.00e+08	0.79 y	27:21	-	0.908	
50	Unk	PCB-51	100.00	1.02e+08	0.81 y	27:40	-	0.924	
51	Unk	PCB-45	100.00	8.59e+07	0.79 y	28:04	-	0.777	
52	Unk	PCB-46	100.00	8.18e+07	0.78 y	28:32	-	0.740	
53	Unk	PCB-52	200.00	1.97e+08	0.78 y	28:59	-	0.890	Co-elute PCB 69
54	Unk	PCB-69	200.00	1.97e+08	0.78 y	28:59	-	0.890	Co-elute PCB 52
55	Unk	PCB-73	100.00	1.27e+08	0.79 y	29:05	-	1.15	
56	Unk	PCB-43	200.00	1.75e+08	0.79 y	29:15	-	0.790	Co-elute PCB 49
57	Unk	PCB-49	200.00	1.75e+08	0.79 y	29:15	-	0.790	Co-elute PCB 43
58	Unk	PCB-47	100.00	9.66e+07	0.78 y	29:28	-	0.874	
59	Unk	PCB-48	200.00	2.21e+08	0.78 y	29:33	-	1.00	Co-elute PCB 75
60	Unk	PCB-75	200.00	2.21e+08	0.78 y	29:33	-	1.00	Co-elute PCB 48
61	Unk	PCB-65	100.00	1.11e+08	0.78 y	29:49	-	1.01	
62	Unk	PCB-62	100.00	1.19e+08	0.79 y	29:55	-	1.07	
63	Unk	PCB-44	100.00	7.55e+07	0.79 y	30:12	-	0.683	
64	Unk	PCB-42	200.00	2.00e+08	0.79 y	30:25	-	0.903	Co-elute PCB 59
65	Unk	PCB-59	200.00	2.00e+08	0.79 y	30:25	-	0.903	Co-elute PCB 42
66	Unk	PCB-72	400.00	4.37e+08	0.79 y	30:57	-	0.987	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	4.37e+08	0.79 y	30:57	-	0.987	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	4.37e+08	0.79 y	30:57	-	0.987	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	4.37e+08	0.79 y	30:57	-	0.987	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	1.24e+08	0.79 y	31:13	-	1.12	
71	Unk	PCB-40	100.00	6.99e+07	0.78 y	31:25	-	0.633	
72	Unk	PCB-57	100.00	1.13e+08	0.78 y	31:45	-	1.03	
73	Unk	PCB-67	100.00	1.05e+08	0.78 y	32:03	-	0.953	
74	Unk	PCB-58	100.00	1.23e+08	0.79 y	32:09	-	1.11	
75	Unk	PCB-63	100.00	1.12e+08	0.78 y	32:18	-	1.02	
76	Unk	PCB-74	100.00	1.09e+08	0.78 y	32:35	-	0.989	
77	Unk	PCB-61	200.00	2.11e+08	0.79 y	32:46	-	0.952	Co-elute PCB 70
78	Unk	PCB-70	200.00	2.11e+08	0.79 y	32:46	-	0.952	Co-elute PCB 61
79	Unk	PCB-76	200.00	2.35e+08	0.78 y	32:59	-	1.06	Co-elute PCB 66
80	Unk	PCB-66	200.00	2.35e+08	0.78 y	32:59	-	1.06	Co-elute PCB 76
81	Unk	PCB-80	100.00	1.33e+08	0.80 y	33:10	-	1.20	
82	Unk	PCB-55	100.00	1.15e+08	0.83 y	33:29	-	1.04	
83	IS/RT	13C-PCB-54	100.00	1.11e+08	0.82 y	25:38	-	1.36	
84	Unk	PCB-104	100.00	9.31e+07	1.57 y	30:03	-	1.10	
85	Unk	PCB-96	100.00	8.77e+07	1.56 y	31:15	-	1.03	
86	Unk	PCB-103	100.00	6.91e+07	1.58 y	31:45	-	0.814	
87	Unk	PCB-100	100.00	6.92e+07	1.57 y	32:06	-	0.815	
88	Unk	PCB-94	100.00	5.67e+07	1.55 y	32:32	-	0.668	
89	Unk	PCB-98	200.00	1.15e+08	1.56 y	32:59	-	0.678	Co-elute PCB 102
90	Unk	PCB-102	200.00	1.15e+08	1.56 y	32:59	-	0.678	Co-elute PCB 98
91	Unk	PCB-95	100.00	6.60e+07	1.56 y	33:01	-	0.777	
92	Unk	PCB-93	100.00	6.22e+07	1.60 y	33:08	-	0.732	
93	Unk	PCB-88	200.00	1.28e+08	1.57 y	33:25	-	0.756	Co-elute PCB 91
94	Unk	PCB-91	200.00	1.28e+08	1.57 y	33:25	-	0.756	Co-elute PCB 88
95	Unk	PCB-121	100.00	8.00e+07	1.52 y	33:30	-	0.942	
96	IS	13C-PCB-104	100.00	8.49e+07	1.60 y	30:02	-	1.05	
97	C/Up	13C-PCB-28	100.00	1.48e+08	1.07 y	26:41	-	1.82	
98	RS	13C-PCB-52	100.00	8.12e+07	0.80 y	28:57	8.12e+05	-	
99	Unk	PCB-56	200.00	1.94e+08	0.79 y	33:58	-	1.14	Co-elute PCB 60
100	Unk	PCB-60	200.00	1.94e+08	0.79 y	33:58	-	1.14	Co-elute PCB 56

101	Unk	PCB-79	100.00	1.04e+08	0.79 y	34:59	-	1.22	
102	Unk	PCB-78	100.00	9.87e+07	0.79 y	35:38	-	1.17	
103	Unk	PCB-81	100.00	1.07e+08	0.79 y	36:08	-	1.29	
104	IS	13C-PCB-81	100.00	8.26e+07	0.79 y	36:07	-	1.32	
105	Unk	PCB-77	100.00	9.65e+07	0.79 y	36:42	-	1.11	
106	IS/RT	13C-PCB-77	100.00	8.68e+07	0.81 y	36:41	-	1.39	
107	Unk	PCB-155	100.00	9.21e+07	1.27 y	34:13	-	1.03	
108	Unk	PCB-150	100.00	8.61e+07	1.24 y	35:24	-	0.964	
109	Unk	PCB-152	100.00	8.48e+07	1.25 y	35:52	-	0.949	
110	Unk	PCB-145	100.00	8.00e+07	1.27 y	36:17	-	0.895	
111	Unk	PCB-136	100.00	8.70e+07	1.23 y	36:35	-	0.974	
112	Unk	PCB-148	100.00	5.32e+07	1.29 y	36:41	-	0.595	
113	Unk	PCB-154	100.00	7.02e+07	1.23 y	37:08	-	0.785	
114	IS	13C-PCB-155	100.00	8.94e+07	1.27 y	34:11	-	1.43	
115	C/Up	13C-PCB-111	100.00	6.98e+07	1.62 y	36:16	-	1.12	
116	RS	13C-PCB-101	100.00	6.25e+07	1.64 y	34:38	6.25e+05	-	
117	Unk	PCB-84	200.00	1.34e+08	1.64 y	34:18	-	0.855	Co-elute PCB 92
118	Unk	PCB-92	200.00	1.34e+08	1.64 y	34:18	-	0.855	Co-elute PCB 84
119	Unk	PCB-89	100.00	6.91e+07	1.63 y	34:28	-	0.883	
120	Unk	PCB-90	200.00	1.39e+08	1.61 y	34:38	-	0.891	Co-elute PCB 101
121	Unk	PCB-101	200.00	1.39e+08	1.61 y	34:38	-	0.891	Co-elute PCB 90
122	Unk	PCB-113	100.00	8.26e+07	1.56 y	34:52	-	1.06	
123	Unk	PCB-99	100.00	7.57e+07	1.73 y	34:57	-	0.969	
124	Unk	PCB-119	100.00	8.39e+07	1.58 y	35:24	-	1.07	
125	Unk	PCB-83	200.00	1.37e+08	1.59 y	35:33	-	0.875	Co-elute PCB 112
126	Unk	PCB-112	200.00	1.37e+08	1.59 y	35:33	-	0.875	Co-elute PCB 83
127	Unk	PCB-109	100.00	7.92e+07	1.65 y	35:42	-	1.01	
128	Unk	PCB-97	100.00	5.31e+07	1.64 y	35:53	-	0.680	
129	Unk	PCB-86	100.00	6.04e+07	1.66 y	36:03	-	0.773	
130	Unk	PCB-125	300.00	2.10e+08	1.62 y	36:09	-	0.897	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	2.10e+08	1.62 y	36:09	-	0.897	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	2.10e+08	1.62 y	36:09	-	0.897	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	1.62e+08	1.60 y	36:17	-	1.04	Co-elute PCB 115
134	Unk	PCB-115	200.00	1.62e+08	1.60 y	36:17	-	1.04	Co-elute PCB 111
135	Unk	PCB-85	200.00	1.33e+08	1.61 y	36:25	-	0.854	Co-elute PCB 116
136	Unk	PCB-116	200.00	1.33e+08	1.61 y	36:25	-	0.854	Co-elute PCB 85
137	Unk	PCB-120	100.00	8.10e+07	1.56 y	36:38	-	1.04	
138	Unk	PCB-110	100.00	7.74e+07	1.65 y	36:46	-	0.990	
139	Unk	PCB-82	100.00	4.46e+07	1.60 y	37:23	-	0.570	
140	Unk	PCB-124	100.00	8.79e+07	1.52 y	38:00	-	1.12	
141	Unk	PCB-108	200.00	1.73e+08	1.56 y	38:10	-	1.10	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.73e+08	1.56 y	38:10	-	1.10	Co-elute PCB 108
143	Unk	PCB-123	100.00	7.74e+07	1.55 y	38:20	-	1.03	
144	IS	13C-PCB-123	100.00	7.49e+07	1.58 y	38:18	-	1.30	
145	Unk	PCB-118	200.00	1.75e+08	1.54 y	38:32	-	1.06	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.75e+08	1.54 y	38:32	-	1.06	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	8.26e+07	1.59 y	38:28	-	1.44	
148	Unk	PCB-114	100.00	9.11e+07	1.53 y	39:06	-	1.19	
149	IS	13C-PCB-114	100.00	7.67e+07	1.61 y	39:06	-	1.33	
150	Unk	PCB-122	100.00	8.32e+07	1.56 y	39:14	-	1.06	
151	Unk	PCB-105	100.00	8.74e+07	1.53 y	39:56	-	1.11	
152	IS	13C-PCB-105	100.00	7.85e+07	1.57 y	39:54	-	1.36	
153	Unk	PCB-127	100.00	8.05e+07	1.53 y	40:15	-	1.03	
154	Unk	PCB-126	100.00	7.74e+07	1.54 y	42:02	-	1.08	
155	IS	13C-PCB-126	100.00	7.15e+07	1.59 y	42:02	-	1.24	

156	Unk	PCB-151	100.00	5.25e+07	1.27 y	37:45	-	0.838	
157	Unk	PCB-135	100.00	5.70e+07	1.33 y	37:59	-	0.910	
158	Unk	PCB-144	100.00	5.99e+07	1.24 y	38:04	-	0.956	
159	Unk	PCB-147	100.00	6.25e+07	1.26 y	38:12	-	0.997	
160	Unk	PCB-139	200.00	1.35e+08	1.27 y	38:27	-	1.08	Co-elute PCB 149
161	Unk	PCB-149	200.00	1.35e+08	1.27 y	38:27	-	1.08	Co-elute PCB 139
162	Unk	PCB-140	100.00	6.30e+07	1.27 y	38:37	-	1.01	
163	Unk	PCB-143	200.00	1.06e+08	1.26 y	39:01	-	0.843	Co-elute PCB 134
164	Unk	PCB-134	200.00	1.06e+08	1.26 y	39:01	-	0.843	Co-elute PCB 143
165	Unk	PCB-131	200.00	1.07e+08	1.26 y	39:18	-	0.858	Co-elute PCB 133
166	Unk	PCB-133	200.00	1.07e+08	1.26 y	39:18	-	0.858	Co-elute PCB 131
167	Unk	PCB-142	100.00	5.19e+07	1.27 y	39:28	-	0.829	
168	Unk	PCB-165	200.00	1.43e+08	1.28 y	39:39	-	1.14	Co-elute PCB 146
169	Unk	PCB-146	200.00	1.43e+08	1.28 y	39:39	-	1.14	Co-elute PCB 165
170	Unk	PCB-161	200.00	1.33e+08	1.26 y	39:52	-	1.06	Co-elute PCB 132
171	Unk	PCB-132	200.00	1.33e+08	1.26 y	39:52	-	1.06	Co-elute PCB 161
172	Unk	PCB-153	100.00	7.18e+07	1.28 y	40:04	-	1.15	
173	Unk	PCB-168	100.00	7.68e+07	1.28 y	40:15	-	1.23	
174	Unk	PCB-141	100.00	5.63e+07	1.26 y	40:45	-	0.899	
175	Unk	PCB-137	100.00	5.27e+07	1.24 y	41:08	-	0.842	
176	Unk	PCB-130	100.00	5.55e+07	1.26 y	41:13	-	0.886	
177	Unk	PCB-138	300.00	2.17e+08	1.26 y	41:34	-	1.15	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	2.17e+08	1.26 y	41:34	-	1.15	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	2.17e+08	1.26 y	41:34	-	1.15	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	1.54e+08	1.28 y	41:47	-	1.23	Co-elute PCB 160
181	Unk	PCB-160	200.00	1.54e+08	1.28 y	41:47	-	1.23	Co-elute PCB 158
182	Unk	PCB-129	100.00	5.04e+07	1.28 y	42:02	-	0.806	
183	Unk	PCB-166	100.00	7.36e+07	1.26 y	42:29	-	1.18	
184	Unk	PCB-159	100.00	7.99e+07	1.26 y	42:47	-	1.28	
185	Unk	PCB-128	200.00	1.30e+08	1.26 y	43:03	-	1.04	Co-elute PCB 162
186	Unk	PCB-162	200.00	1.30e+08	1.26 y	43:03	-	1.04	Co-elute PCB 128
187	Unk	PCB-167	100.00	7.13e+07	1.26 y	43:25	-	1.13	
188	IS	13C-PCB-167	100.00	6.33e+07	1.30 y	43:23	-	1.10	
189	Unk	PCB-156	100.00	7.31e+07	1.28 y	44:39	-	1.20	
190	IS	13C-PCB-156	100.00	6.07e+07	1.29 y	44:37	-	1.05	
191	Unk	PCB-157	100.00	7.30e+07	1.27 y	44:53	-	1.12	
192	IS	13C-PCB-157	100.00	6.53e+07	1.26 y	44:52	-	1.13	
193	Unk	PCB-169	100.00	6.56e+07	1.25 y	46:45	-	1.07	
194	IS	13C-PCB-169	100.00	6.12e+07	1.29 y	46:44	-	1.06	
195	Unk	PCB-188	100.00	7.03e+07	1.06 y	39:42	-	1.08	
196	IS	13C-PCB-188	100.00	6.53e+07	1.06 y	39:41	-	1.13	

197	Unk	PCB-184	100.00	7.17e+07	1.07 y	40:07	-	1.19	
198	Unk	PCB-179	100.00	6.55e+07	1.05 y	40:51	-	1.08	
199	Unk	PCB-176	100.00	6.47e+07	1.07 y	41:18	-	1.07	
200	Unk	PCB-186	100.00	6.66e+07	1.06 y	41:52	-	1.10	
201	Unk	PCB-178	100.00	4.51e+07	1.06 y	42:20	-	0.747	
202	Unk	PCB-175	100.00	4.50e+07	1.03 y	42:40	-	0.745	
203	Unk	PCB-187	200.00	1.03e+08	1.06 y	42:50	-	0.854	Co-elute PCB 182
204	Unk	PCB-182	200.00	1.03e+08	1.06 y	42:50	-	0.854	Co-elute PCB 187
205	Unk	PCB-183	100.00	4.96e+07	1.06 y	43:08	-	0.822	
206	Unk	PCB-185	100.00	4.54e+07	1.06 y	43:44	-	0.751	
207	Unk	PCB-174	100.00	4.70e+07	1.06 y	44:06	-	0.778	
208	Unk	PCB-181	100.00	4.49e+07	1.07 y	44:12	-	0.743	
209	Unk	PCB-177	100.00	4.14e+07	1.04 y	44:22	-	0.685	
210	Unk	PCB-171	100.00	4.58e+07	1.06 y	44:39	-	0.758	
211	Unk	PCB-173	100.00	4.04e+07	1.05 y	45:03	-	0.669	
212	Unk	PCB-172	100.00	4.23e+07	1.06 y	45:25	-	0.701	
213	Unk	PCB-192	100.00	5.58e+07	1.06 y	45:36	-	0.923	
214	Unk	PCB-180	100.00	4.24e+07	1.07 y	45:46	-	0.702	
215	Unk	PCB-193	100.00	6.01e+07	1.06 y	45:56	-	0.994	
216	Unk	PCB-191	100.00	5.82e+07	1.04 y	46:09	-	0.963	
217	Unk	PCB-170	100.00	4.16e+07	1.03 y	47:03	-	0.689	
218	Unk	PCB-190	100.00	5.73e+07	1.06 y	47:13	-	0.949	
219	Unk	PCB-189	100.00	5.81e+07	1.06 y	48:26	-	1.05	
220	IS	13C-PCB-189	100.00	5.55e+07	1.07 y	48:24	-	0.965	
221	Unk	PCB-202	150.00	7.71e+07	0.92 y	44:49	-	1.02	
222	Unk	PCB-201	150.00	7.97e+07	0.91 y	45:15	-	1.06	
223	Unk	PCB-204	150.00	7.90e+07	0.92 y	45:23	-	1.05	
224	Unk	PCB-197	150.00	8.02e+07	0.93 y	45:40	-	1.06	
225	Unk	PCB-200	150.00	8.22e+07	0.92 y	46:24	-	1.09	
226	Unk	PCB-198	150.00	5.88e+07	0.90 y	47:35	-	0.779	
227	Unk	PCB-199	150.00	5.62e+07	0.94 y	47:41	-	0.745	
228	Unk	PCB-203	300.00	1.30e+08	0.90 y	47:56	-	0.861	Co-elute PCB 196
229	Unk	PCB-196	300.00	1.30e+08	0.90 y	47:56	-	0.861	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	5.03e+07	0.90 y	44:47	-	0.873	
231	C/Up	13C-PCB-178	100.00	4.12e+07	1.08 y	42:19	-	0.715	
232	RS	13C-PCB-138	100.00	5.76e+07	1.28 y	41:33	5.76e+05	-	
233	Unk	PCB-195	150.00	7.50e+07	0.88 y	49:02	-	0.740	
234	Unk	PCB-194	150.00	8.58e+07	0.89 y	49:49	-	0.847	
235	Unk	PCB-205	150.00	1.09e+08	0.89 y	50:05	-	1.07	
236	IS	13C-PCB-205	100.00	6.76e+07	0.89 y	50:04	-	1.28	
237	Unk	PCB-208	150.00	1.02e+08	1.36 y	49:08	-	1.06	
238	IS	13C-PCB-208	100.00	6.42e+07	0.83 y	49:08	-	1.22	
239	Unk	PCB-207	150.00	9.81e+07	1.36 y	49:26	-	1.16	
240	Unk	PCB-206	150.00	7.68e+07	1.34 y	51:17	-	1.06	
241	IS	13C-PCB-206	100.00	4.82e+07	0.81 y	51:15	-	0.915	
242	Unk	PCB-209	150.00	1.01e+08	1.21 y	52:27	-	1.12	
243	IS	13C-PCB-209	100.00	6.01e+07	1.20 y	52:27	-	1.14	
244	RS	13C-PCB-194	100.00	5.27e+07	0.91 y	49:48	5.27e+05	-	

Analyst: _____ Date: 8/6/15

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/5/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 05AUG19Z Sam:1 Analysis Date: 5-AUG-19 09:35:17

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.16	2.66-3.60	y	49.8	37.5 - 62.5
PCB-3	M/M+2	3.16	2.66-3.60	y	48.6	37.5 - 62.5
PCB-4	M/M+2	1.54	1.33-1.79	y	44.1	37.5 - 62.5
PCB-15	M/M+2	1.53	1.33-1.79	y	47.4	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	50.3	37.5 - 62.5
PCB-37	M/M+2	1.04	0.88-1.20	y	45.7	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	49.6	37.5 - 62.5
PCB-77	M/M+2	0.77	0.65-0.89	y	50.2	37.5 - 62.5
PCB-81	M/M+2	0.79	0.65-0.89	y	45.6	37.5 - 62.5
PCB-104	M+2/M+4	1.53	1.32-1.78	y	49.6	37.5 - 62.5
PCB-105	M+2/M+4	1.53	1.32-1.78	y	45.4	37.5 - 62.5
PCB-114	M+2/M+4	1.53	1.32-1.78	y	43.3	37.5 - 62.5
PCB-118	M+2/M+4	1.54	1.32-1.78	y	47.8	37.5 - 62.5
PCB-123	M+2/M+4	1.52	1.32-1.78	y	49.9	37.5 - 62.5
PCB-126	M+2/M+4	1.52	1.32-1.78	y	46.9	37.5 - 62.5
PCB-155	M+2/M+4	1.24	1.05-1.43	y	49.9	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	44.4	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	47.2	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	46.9	37.5 - 62.5
PCB-169	M+2/M+4	1.26	1.05-1.43	y	49.5	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	52.0	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	50.5	37.5 - 62.5
PCB-202	M+2/M+4	0.92	0.76-1.02	y	50.0	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	50.9	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	48.4	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	51.5	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	49.5	37.5 - 62.5

Analyst: _____ Date: 8/5/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/5/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 05AUG19Z Sam:1 Analysis Date: 5-AUG-19 09:35:17

	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	3.19	2.66-3.60	y	105	50.0 - 145
13C-PCB-3	M/M+2	3.27	2.66-3.60	y	105	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	98.2	50.0 - 145
13C-PCB-15	M/M+2	1.59	1.33-1.79	y	95.7	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	100	50.0 - 145
13C-PCB-37	M/M+2	1.05	0.88-1.20	y	96.6	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	105	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	95.3	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	96.0	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	102	50.0 - 145
13C-PCB-105	M+2/M+4	1.57	1.32-1.78	y	94.5	50.0 - 145
13C-PCB-114	M+2/M+4	1.59	1.32-1.78	y	99.9	50.0 - 145
13C-PCB-118	M+2/M+4	1.60	1.32-1.78	y	103	50.0 - 145
13C-PCB-123	M+2/M+4	1.58	1.32-1.78	y	100	50.0 - 145
13C-PCB-126	M+2/M+4	1.56	1.32-1.78	y	91.5	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	116	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	103	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	99.2	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	106	50.0 - 145
13C-PCB-169	M+2/M+4	1.30	1.05-1.43	y	94.6	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	107	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	98.0	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	123	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	105	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	110	50.0 - 145
13C-PCB-208	M+2/M+4	0.83	0.65-0.89	y	111	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	112	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.06	0.88-1.20	y	99.1	65.0 - 135
13C-PCB-111	M+2/M+4	1.59	1.32-1.78	y	110	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	112	75.0 - 125

Analyst: [signature] Date: 8/5/19

FAL ID: ST080519Z1 Filename: 05AUG19Z Sam:1 Acquired: 5-AUG-19 09:35:17 ICal: DAILY209FAL4-8-5-19
Client ID: 1668 CS3 R181204D ConCal: ST080519Z1 EndCal: ST080519Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	7.53e+07	3.16 y	14:32	1.19	49.8		2.50	-	-	*	
13C-PCB-1	1.27e+08	3.19 y	14:31	0.92	105		2.50				105
PCB-3	7.16e+07	3.16 y	16:58	1.22	48.6		2.50	-	-	*	
13C-PCB-3	1.20e+08	3.27 y	16:57	0.87	105		2.50				105
PCB-4	5.09e+07	1.54 y	18:12	1.25	44.1		2.50	-	-	*	
13C-PCB-4	9.24e+07	1.60 y	18:10	0.71	98.2		2.50				98.2
PCB-15	6.38e+07	1.53 y	23:43	1.12	47.4		2.50	-	-	*	
13C-PCB-15	1.21e+08	1.59 y	23:42	0.95	95.7		2.50				95.7
PCB-19	3.97e+07	1.06 y	22:05	1.19	50.3		2.50	-	-	*	
13C-PCB-19	6.64e+07	1.07 y	22:03	0.50	100		2.50				100
13C-PCB-9	1.32e+08	1.58 y	19:51	-	78.0		2.50				
PCB-37	4.81e+07	1.04 y	30:22	1.16	45.7		2.50	-	-	*	
13C-PCB-37	9.08e+07	1.05 y	30:21	1.52	96.6		2.50				96.6
PCB-54	5.38e+07	0.79 y	25:36	1.23	49.6		2.50	-	-	*	
13C-PCB-54	8.85e+07	0.81 y	25:35	1.36	105		2.50				105
PCB-104	3.60e+07	1.53 y	30:03	1.10	49.6		2.50	-	-	*	
13C-PCB-104	6.62e+07	1.60 y	30:02	1.05	102		2.50				102
13C-PCB-28	1.12e+08	1.06 y	26:40	1.82	99.1		2.50				99.1
13C-PCB-52	6.19e+07	0.80 y	28:56	-	76.2		2.50				
PCB-81	3.44e+07	0.79 y	36:08	1.29	45.6		2.50	-	-	*	
13C-PCB-81	5.84e+07	0.80 y	36:07	1.32	96.0		2.50				96.0
PCB-77	3.40e+07	0.77 y	36:42	1.11	50.2		2.50	-	-	*	
13C-PCB-77	6.09e+07	0.81 y	36:41	1.39	95.3		2.50				95.3
PCB-155	3.91e+07	1.24 y	34:12	1.03	49.9		2.50	-	-	*	
13C-PCB-155	7.61e+07	1.28 y	34:11	1.43	116		2.50				116
13C-PCB-111	5.63e+07	1.59 y	36:16	1.12	110		2.50				110
13C-PCB-101	4.60e+07	1.62 y	34:37	-	73.6		2.50				
PCB-123	2.94e+07	1.52 y	38:20	1.03	49.9		2.50	-	-	*	
13C-PCB-123	5.71e+07	1.58 y	38:18	1.30	100		2.50				100
PCB-118	3.27e+07	1.54 y	38:30	1.06	47.8		2.50	-	-	*	
13C-PCB-118	6.46e+07	1.60 y	38:30	1.44	103		2.50				103
PCB-114	2.99e+07	1.53 y	39:08	1.19	43.3		2.50	-	-	*	
13C-PCB-114	5.81e+07	1.59 y	39:06	1.33	99.9		2.50				99.9
PCB-105	2.85e+07	1.53 y	39:57	1.11	45.4		2.50	-	-	*	
13C-PCB-105	5.63e+07	1.57 y	39:56	1.36	94.5		2.50				94.5
PCB-126	2.52e+07	1.52 y	42:04	1.08	46.9		2.50	-	-	*	
13C-PCB-126	4.97e+07	1.56 y	42:02	1.24	91.5		2.50				91.5
PCB-167	2.68e+07	1.25 y	43:26	1.13	46.9		2.50	-	-	*	
13C-PCB-167	5.08e+07	1.28 y	43:25	1.10	106		2.50				106
PCB-156	2.54e+07	1.25 y	44:39	1.20	44.4		2.50	-	-	*	
13C-PCB-156	4.75e+07	1.29 y	44:39	1.05	103		2.50				103
PCB-157	2.60e+07	1.27 y	44:55	1.12	47.2		2.50	-	-	*	
13C-PCB-157	4.92e+07	1.29 y	44:54	1.13	99.2		2.50				99.2
PCB-169	2.33e+07	1.26 y	46:45	1.07	49.5		2.50	-	-	*	
13C-PCB-169	4.39e+07	1.30 y	46:45	1.06	94.6		2.50				94.6
PCB-188	2.97e+07	1.06 y	39:42	1.08	52.0		2.50	-	-	*	
13C-PCB-188	5.30e+07	1.07 y	39:41	1.13	107		2.50				107
PCB-189	2.18e+07	1.07 y	48:26	1.05	50.5		2.50	-	-	*	
13C-PCB-189	4.13e+07	1.06 y	48:26	0.96	98.0		2.50				98.0
PCB-202	2.40e+07	0.92 y	44:50	1.02	50.0		2.50	-	-	*	
13C-PCB-202	4.70e+07	0.91 y	44:49	0.87	123		2.50				123
13C-PCB-178	3.49e+07	1.08 y	42:20	0.71	112		2.50				112
13C-PCB-138	4.37e+07	1.28 y	41:33	-	75.9		2.50				

Client ID: 1668 CS3 R181204D ConCal: ST080519Z1 EndCal: ST080519Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	2.81e+07	0.90	y	50:05	1.07	50.9	2.50	-	-	*	
13C-PCB-205	5.15e+07	0.91	y	50:05	1.28	105	2.50				105
PCB-208	2.82e+07	1.35	y	49:10	1.06	51.5	2.50	-	-	*	
13C-PCB-208	5.16e+07	0.83	y	49:08	1.22	111	2.50				111
PCB-206	1.98e+07	1.36	y	51:17	1.06	48.4	2.50	-	-	*	
13C-PCB-206	3.85e+07	0.81	y	51:17	0.91	110	2.50				110
PCB-209	2.72e+07	1.19	y	52:29	1.12	49.5	2.50	-	-	*	
13C-PCB-209	4.89e+07	1.19	y	52:27	1.14	112	2.50				112
13C-PCB-194	3.83e+07	0.91	y	49:50	-	72.7	2.50				

Analyst: [illegible] Date: 8/5/19

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/5/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 05AUG19Z Sam:16 Analysis Date: 6-AUG-19 00:11:49

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.14	2.66-3.60	y	49.8	37.5 - 62.5
PCB-3	M/M+2	3.09	2.66-3.60	y	48.5	37.5 - 62.5
PCB-4	M/M+2	1.58	1.33-1.79	y	43.2	37.5 - 62.5
PCB-15	M/M+2	1.60	1.33-1.79	y	47.2	37.5 - 62.5
PCB-19	M/M+2	1.03	0.88-1.20	y	48.5	37.5 - 62.5
PCB-37	M/M+2	1.10	0.88-1.20	y	47.7	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	49.1	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	44.1	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	37.5	37.5 - 62.5
PCB-104	M+2/M+4	1.56	1.32-1.78	y	50.1	37.5 - 62.5
PCB-105	M+2/M+4	1.54	1.32-1.78	y	47.6	37.5 - 62.5
PCB-114	M+2/M+4	1.56	1.32-1.78	y	46.4	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	51.4	37.5 - 62.5
PCB-123	M+2/M+4	1.57	1.32-1.78	y	52.8	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	50.9	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	52.8	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	46.4	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	48.6	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	48.6	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	51.1	37.5 - 62.5
PCB-188	M+2/M+4	1.02	0.89-1.21	y	50.5	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	50.7	37.5 - 62.5
PCB-202	M+2/M+4	0.95	0.76-1.02	y	50.2	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	50.7	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	49.2	37.5 - 62.5
PCB-208	M+4/M+6	1.33	1.13-1.53	y	49.3	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	50.0	37.5 - 62.5

Analyst: [illegible] Date: 8/6/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/5/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 05AUG19Z Sam:16 Analysis Date: 6-AUG-19 00:11:49

	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	3.20	2.66-3.60	y	113	50.0 - 145
13C-PCB-3	M/M+2	3.21	2.66-3.60	y	104	50.0 - 145
13C-PCB-4	M/M+2	1.58	1.33-1.79	y	107	50.0 - 145
13C-PCB-15	M/M+2	1.69	1.33-1.79	y	90.3	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	106	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	90.8	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	115	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	82.0	50.0 - 145
13C-PCB-81	M/M+2	0.77	0.65-0.89	y	87.1	50.0 - 145
13C-PCB-104	M+2/M+4	1.58	1.32-1.78	y	117	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	89.9	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	90.6	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	89.9	50.0 - 145
13C-PCB-123	M+2/M+4	1.62	1.32-1.78	y	90.0	50.0 - 145
13C-PCB-126	M+2/M+4	1.59	1.32-1.78	y	91.7	50.0 - 145
13C-PCB-155	M+2/M+4	1.33	1.05-1.43	y	97.0	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	109	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	109	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	1.27	1.05-1.43	y	120	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	135	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	133	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	135	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	101	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	105	50.0 - 145
13C-PCB-208	M+2/M+4	0.83	0.65-0.89	y	108	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	107	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	94.1	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	118	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	125	75.0 - 125

Analyst: [signature] Date: 8/6/19

FAL ID: ST080519Z2 Filename: 05AUG19Z Sam:16 Acquired: 6-AUG-19 00:11:49 ICal: DAILY209FAL4-8-5-19
Client ID: 1668 CS3 R181204D ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 12511-9 GC Column: DB1MS Amount: 1.000

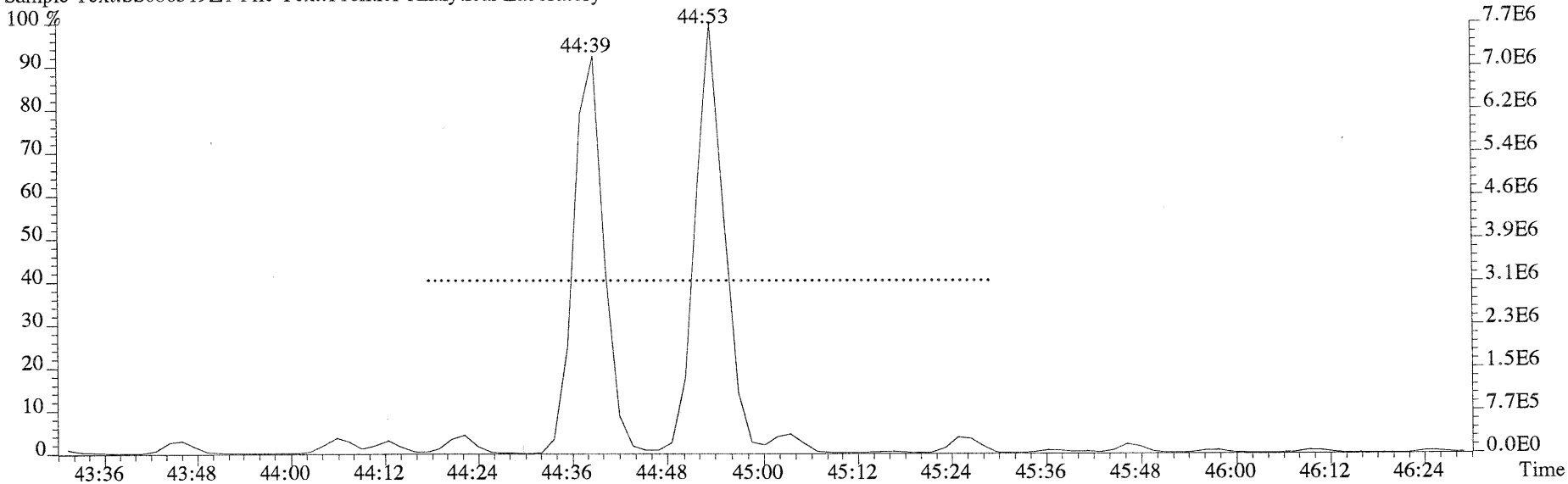
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	9.10e+07	3.14 y	14:33	1.19	49.8		2.50	-	-	*	
13C-PCB-1	1.54e+08	3.20 y	14:32	0.92	113		2.50				113
PCB-3	7.94e+07	3.09 y	16:59	1.22	48.5		2.50	-	-	*	
13C-PCB-3	1.34e+08	3.21 y	16:58	0.87	104		2.50				104
PCB-4	6.11e+07	1.58 y	18:13	1.25	43.2		2.50	-	-	*	
13C-PCB-4	1.13e+08	1.58 y	18:11	0.71	107		2.50				107
PCB-15	6.71e+07	1.60 y	23:45	1.12	47.2		2.50	-	-	*	
13C-PCB-15	1.27e+08	1.69 y	23:43	0.95	90.3		2.50				90.3
PCB-19	4.54e+07	1.03 y	22:06	1.19	48.5		2.50	-	-	*	
13C-PCB-19	7.88e+07	1.07 y	22:04	0.50	106		2.50				106
13C-PCB-9	1.48e+08	1.61 y	19:52	-	87.4		2.50				
PCB-37	5.19e+07	1.10 y	30:23	1.16	47.7		2.50	-	-	*	
13C-PCB-37	9.40e+07	1.06 y	30:21	1.52	90.8		2.50				90.8
PCB-54	6.42e+07	0.79 y	25:37	1.23	49.1		2.50	-	-	*	
13C-PCB-54	1.06e+08	0.81 y	25:36	1.36	115		2.50				115
PCB-104	4.57e+07	1.56 y	30:04	1.10	50.1		2.50	-	-	*	
13C-PCB-104	8.32e+07	1.58 y	30:01	1.05	117		2.50				117
13C-PCB-28	1.17e+08	1.05 y	26:42	1.82	94.1		2.50				94.1
13C-PCB-52	6.81e+07	0.79 y	28:57	-	83.9		2.50				
PCB-81	3.47e+07	0.81 y	36:09	1.29	37.5		2.50	-	-	*	
13C-PCB-81	7.16e+07	0.77 y	36:08	1.32	87.1		2.50				87.1
PCB-77	3.48e+07	0.80 y	36:43	1.11	44.1		2.50	-	-	*	
13C-PCB-77	7.08e+07	0.79 y	36:42	1.39	82.0		2.50				82.0
PCB-155	4.70e+07	1.26 y	34:13	1.03	52.8		2.50	-	-	*	
13C-PCB-155	8.63e+07	1.33 y	34:11	1.43	97.0		2.50				97.0
13C-PCB-111	8.18e+07	1.61 y	36:16	1.12	118		2.50				118
13C-PCB-101	6.22e+07	1.62 y	34:38	-	99.5		2.50				
PCB-123	3.25e+07	1.57 y	38:20	1.03	52.8		2.50	-	-	*	
13C-PCB-123	5.97e+07	1.62 y	38:18	1.30	90.0		2.50				90.0
PCB-118	3.58e+07	1.56 y	38:29	1.06	51.4		2.50	-	-	*	
13C-PCB-118	6.58e+07	1.58 y	38:29	1.44	89.9		2.50				89.9
PCB-114	3.39e+07	1.56 y	39:07	1.19	46.4		2.50	-	-	*	
13C-PCB-114	6.15e+07	1.61 y	39:06	1.33	90.6		2.50				90.6
PCB-105	3.31e+07	1.54 y	39:57	1.11	47.6		2.50	-	-	*	
13C-PCB-105	6.25e+07	1.60 y	39:55	1.36	89.9		2.50				89.9
PCB-126	3.20e+07	1.57 y	42:03	1.08	50.9		2.50	-	-	*	
13C-PCB-126	5.81e+07	1.59 y	42:02	1.24	91.7		2.50				91.7
PCB-167	3.31e+07	1.26 y	43:24	1.13	48.6		2.50	-	-	*	
13C-PCB-167	6.05e+07	1.28 y	43:24	1.10	108		2.50				108
PCB-156	3.28e+07	1.27 y	44:38	1.20	46.4		2.50	-	-	*	
13C-PCB-156	5.86e+07	1.29 y	44:38	1.05	109		2.50				109
PCB-157	3.44e+07	1.27 y	44:53	1.12	48.6		2.50	-	-	*	
13C-PCB-157	6.32e+07	1.30 y	44:53	1.13	109		2.50				109
PCB-169	3.56e+07	1.27 y	46:46	1.07	51.1		2.50	-	-	*	
13C-PCB-169	6.49e+07	1.27 y	46:45	1.06	120		2.50				120
PCB-188	4.25e+07	1.02 y	39:42	1.08	50.5		2.50	-	-	*	
13C-PCB-188	7.81e+07	1.07 y	39:40	1.13	135		2.50				135
PCB-189	3.46e+07	1.05 y	48:25	1.05	50.7		2.50	-	-	*	
13C-PCB-189	6.53e+07	1.07 y	48:25	0.96	133		2.50				133
PCB-202	3.09e+07	0.95 y	44:50	1.02	50.2		2.50	-	-	*	
13C-PCB-202	6.02e+07	0.92 y	44:48	0.87	135		2.50				135
13C-PCB-178	4.57e+07	1.07 y	42:18	0.71	125		2.50				125
13C-PCB-138	5.10e+07	1.28 y	41:32	-	88.6		2.50				

Client ID: 1668 CS3 R181204D ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 12511-9 GC Column: DB1MS Amount: 1.000

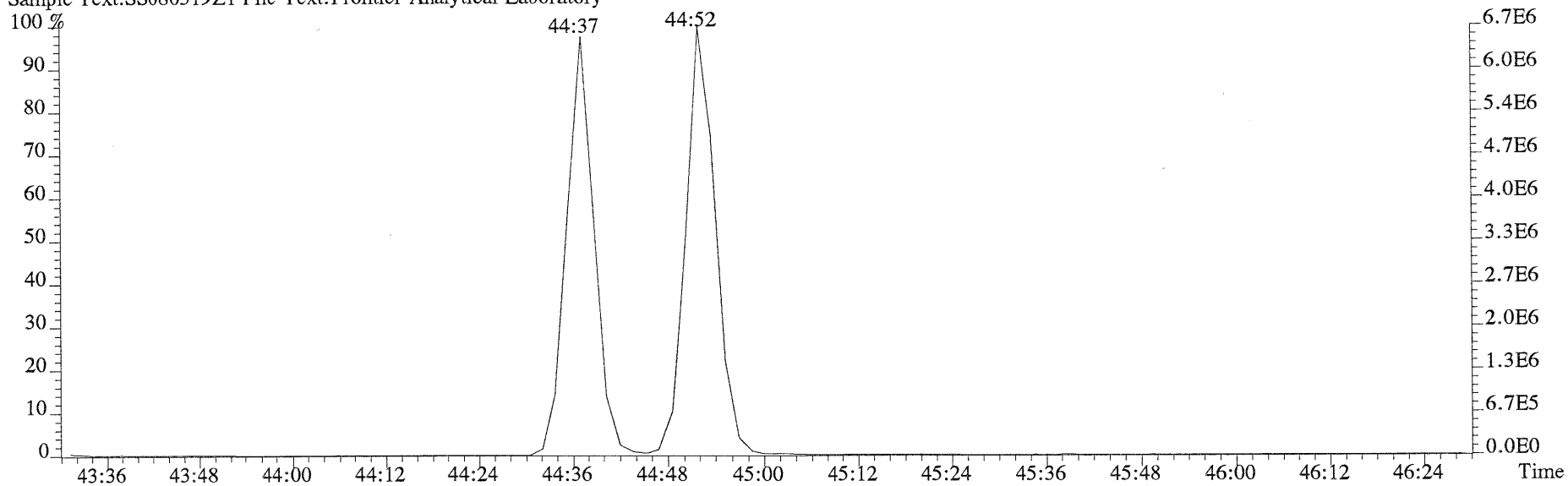
PCB-205	4.06e+07	0.89	y	50:05	1.07	50.7	2.50	-	-	*	
13C-PCB-205	7.48e+07	0.90	y	50:05	1.28	101	2.50				101
PCB-208	3.95e+07	1.33	y	49:08	1.06	49.3	2.50	-	-	*	
13C-PCB-208	7.54e+07	0.83	y	49:08	1.22	108	2.50				108
PCB-206	2.90e+07	1.36	y	51:17	1.06	49.2	2.50	-	-	*	
13C-PCB-206	5.55e+07	0.81	y	51:15	0.91	105	2.50				105
PCB-209	3.95e+07	1.19	y	52:28	1.12	50.0	2.50	-	-	*	
13C-PCB-209	7.03e+07	1.20	y	52:27	1.14	107	2.50				107
13C-PCB-194	5.76e+07	0.90	y	49:49	-	109	2.50				

Analyst: Date: 8/6/19

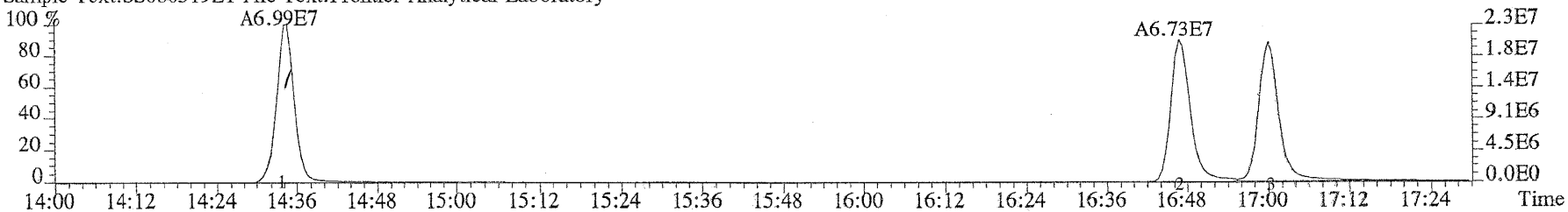
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



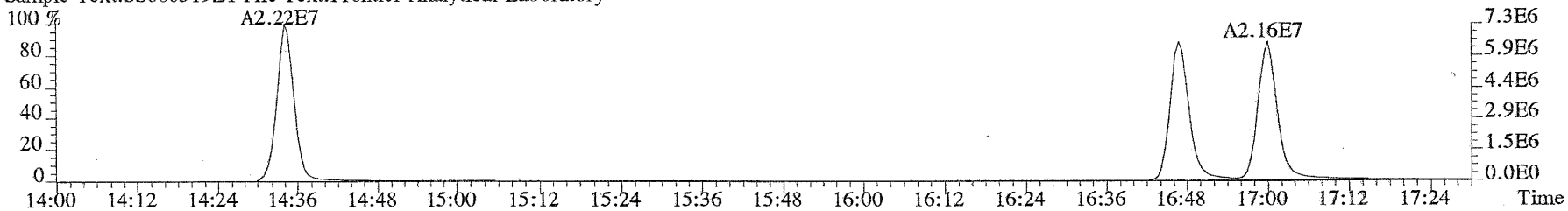
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



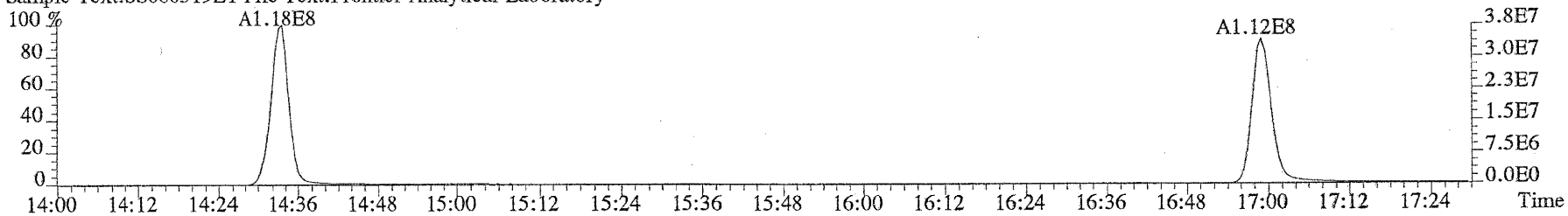
File:05AUG19Z #1-783 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



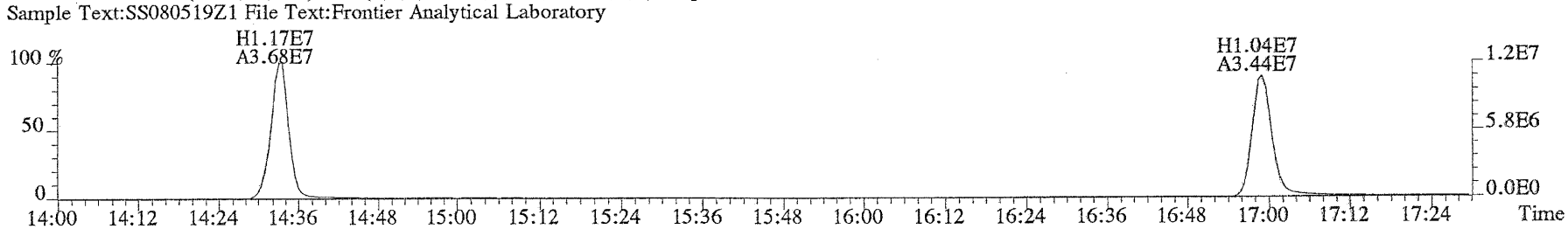
File:05AUG19Z #1-783 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



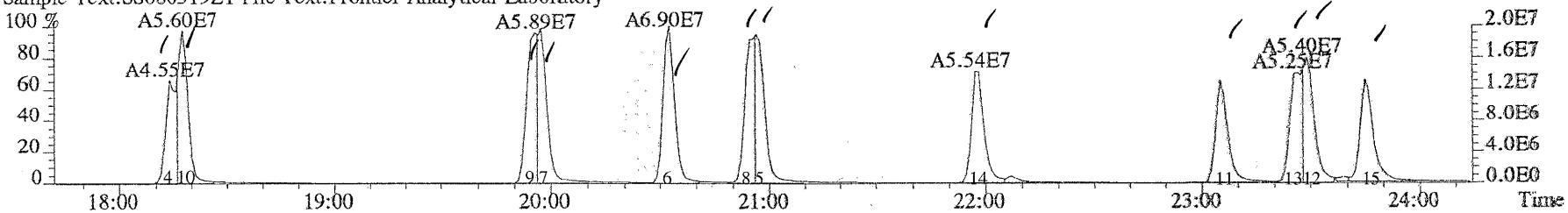
File:05AUG19Z #1-783 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



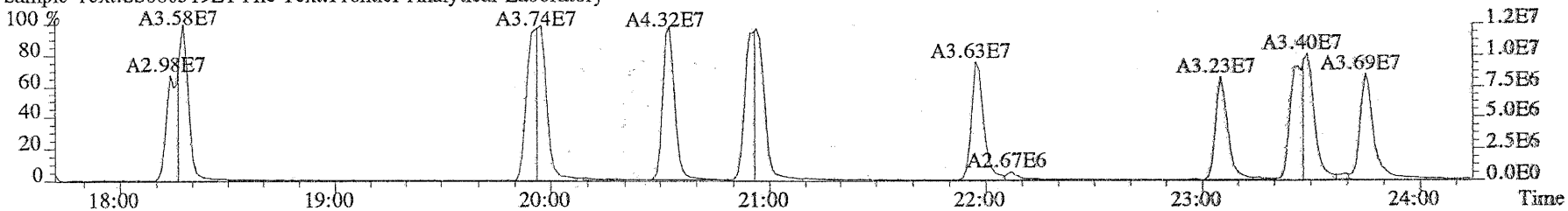
File:05AUG19Z #1-783 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



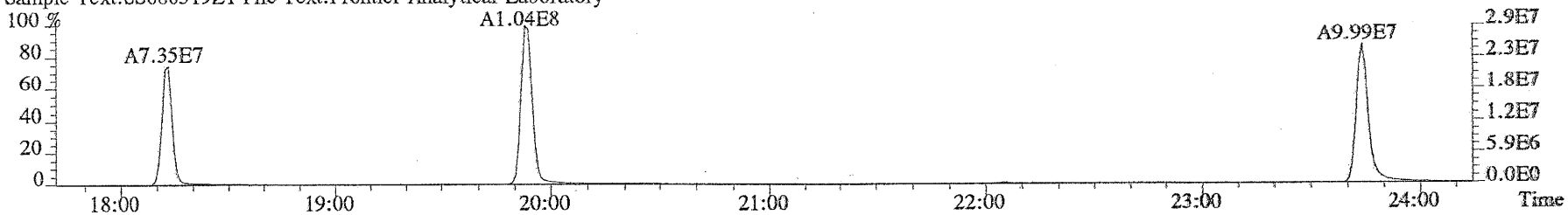
File:05AUG19Z #1-520 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



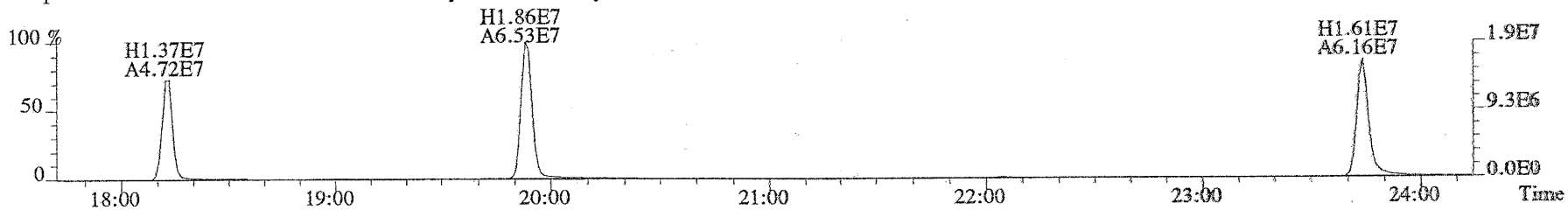
File:05AUG19Z #1-520 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



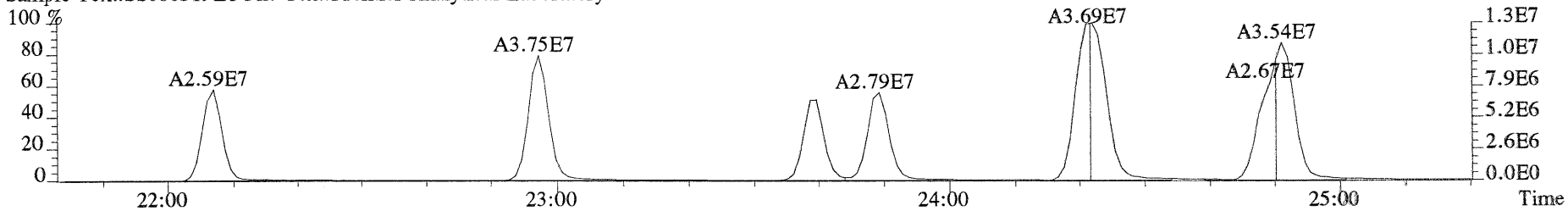
File:05AUG19Z #1-520 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



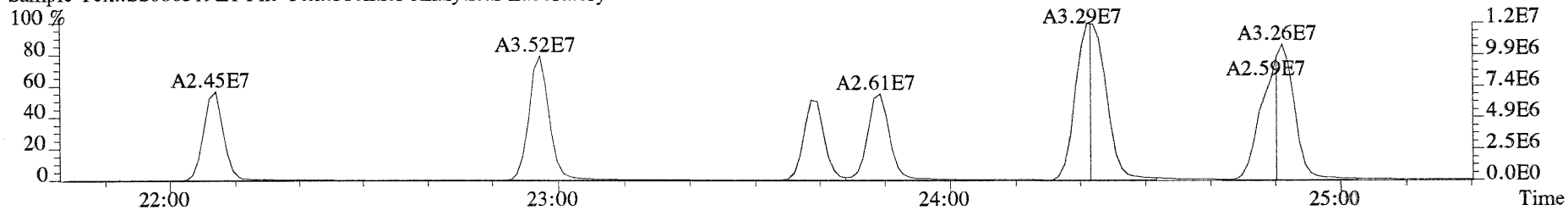
File:05AUG19Z #1-520 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



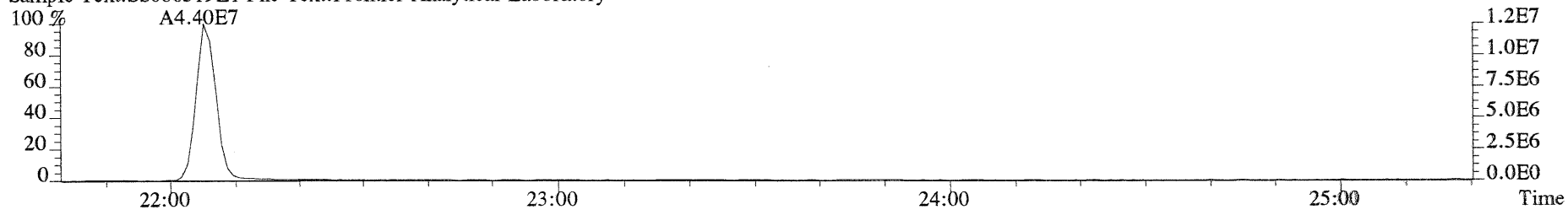
File:05AUG19Z #1-520 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



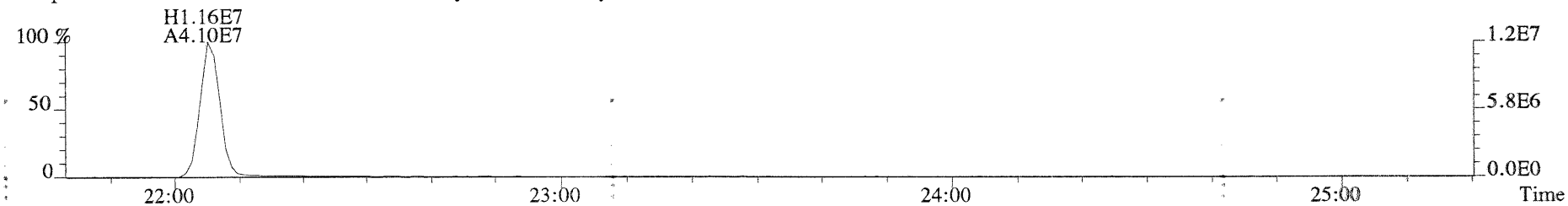
File:05AUG19Z #1-520 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



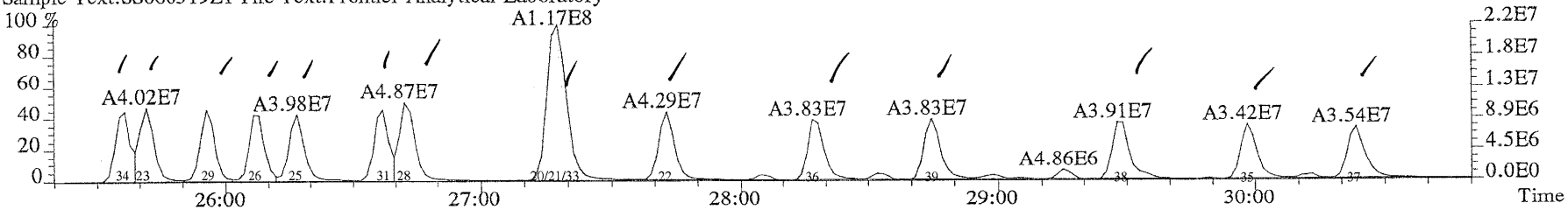
File:05AUG19Z #1-520 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



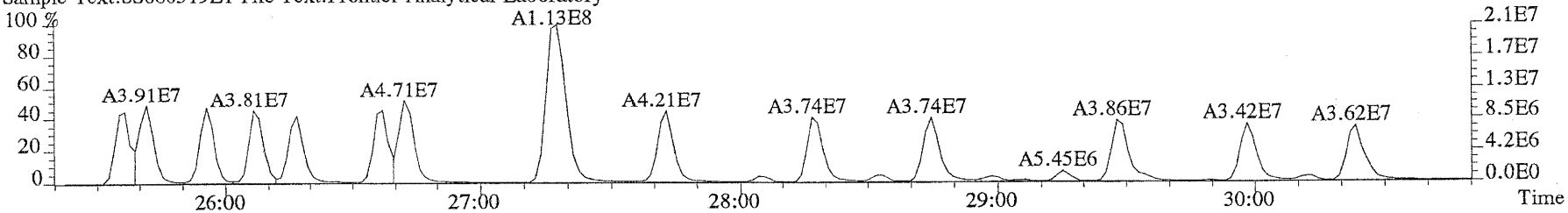
File:05AUG19Z #1-520 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



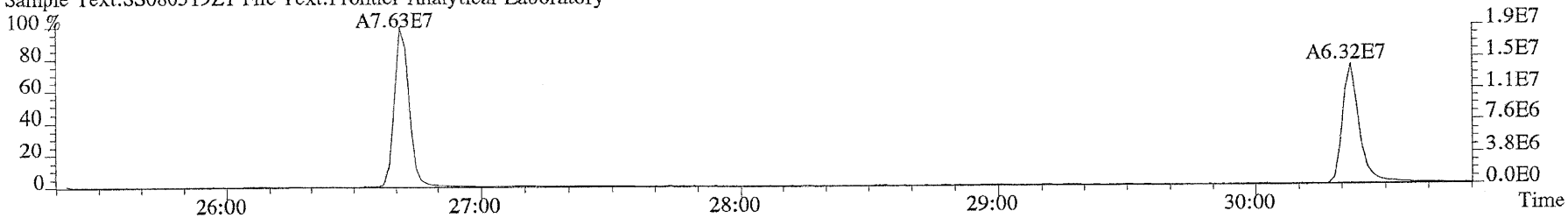
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



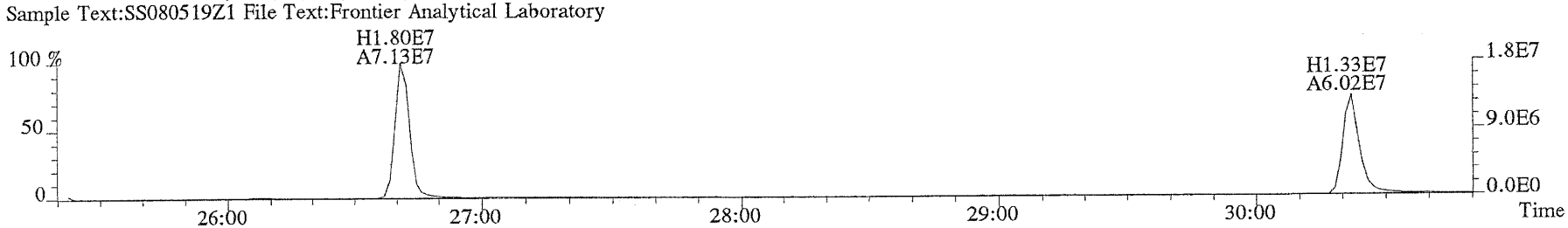
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



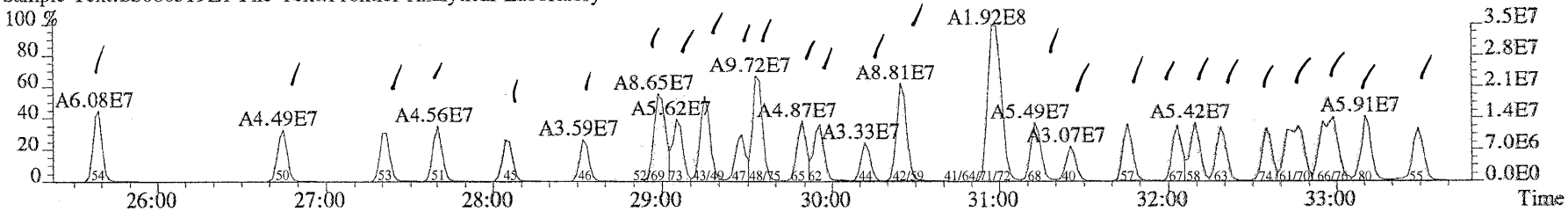
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



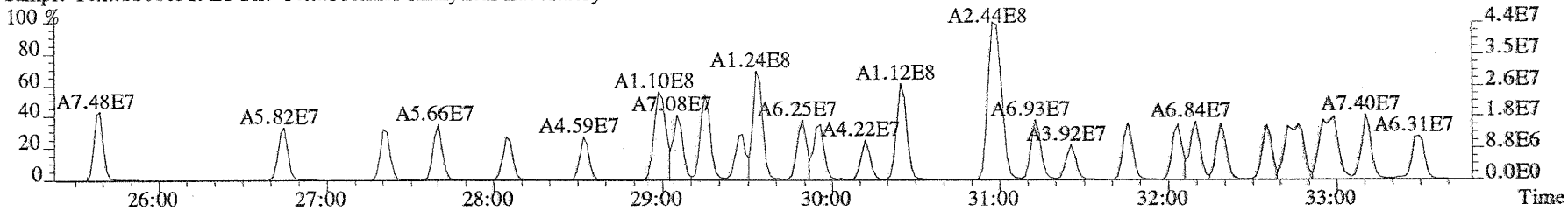
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



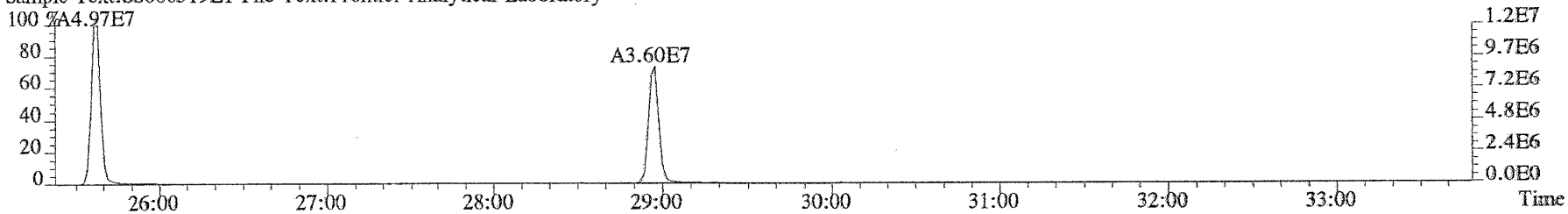
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



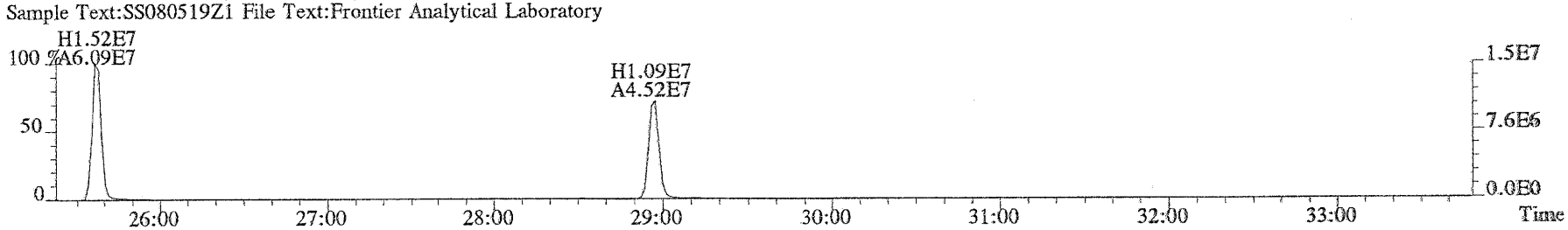
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



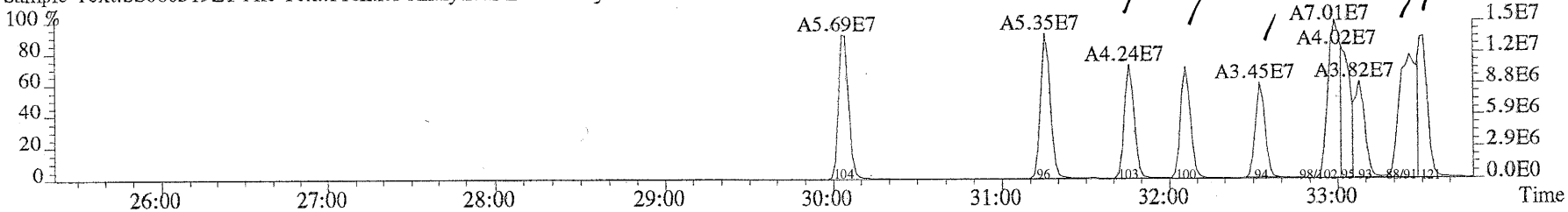
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



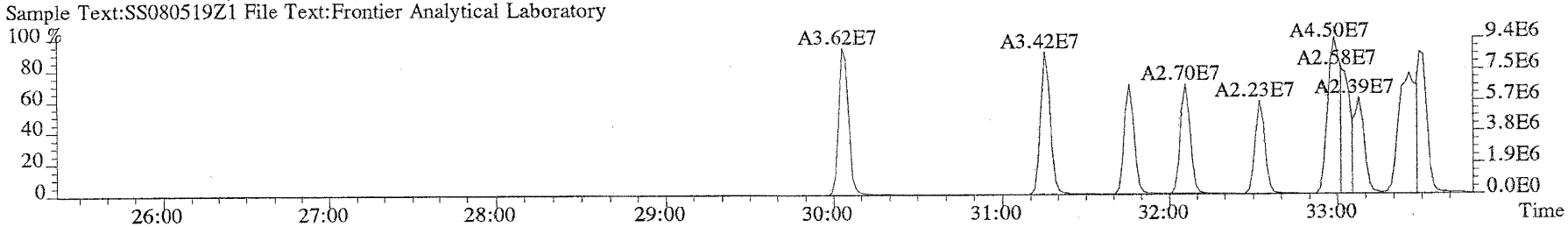
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



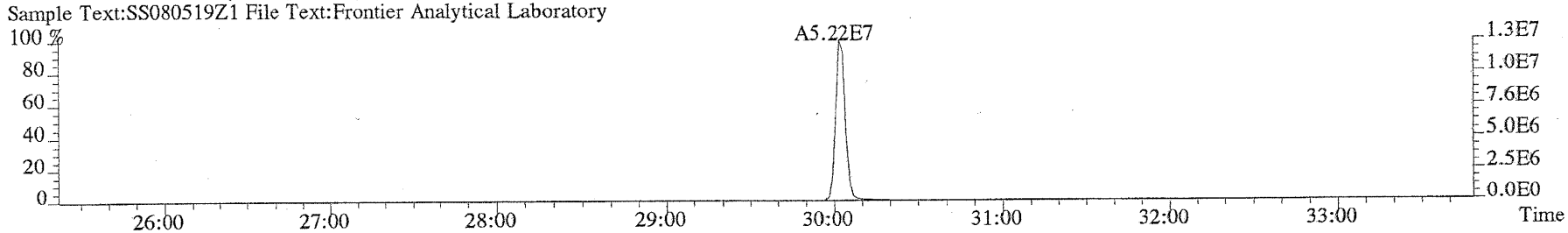
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 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:SS080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 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:SS080519Z1 File Text:Frontier Analytical Laboratory



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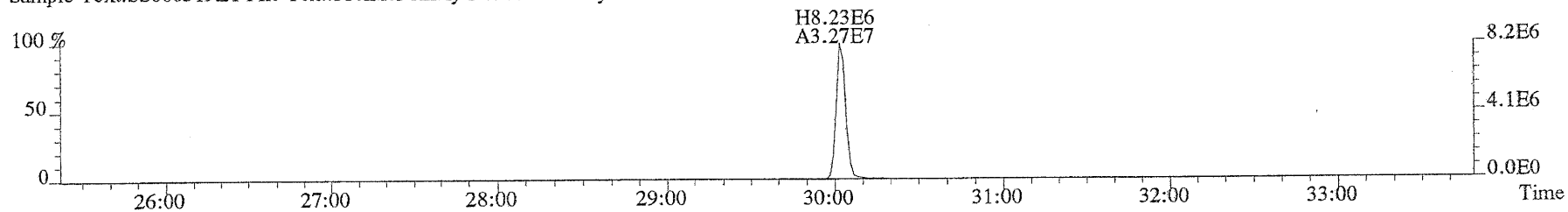
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



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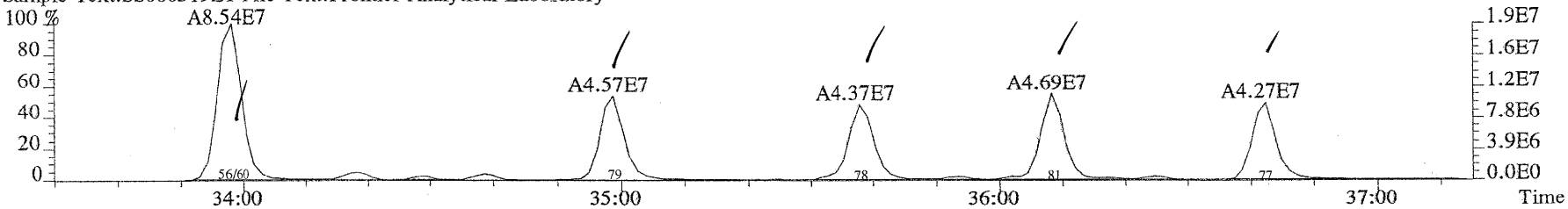
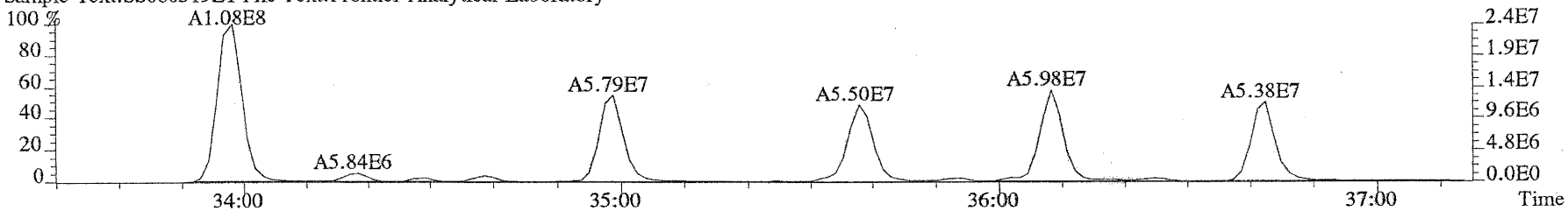
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 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:SS080519Z1 File Text:Frontier Analytical Laboratory



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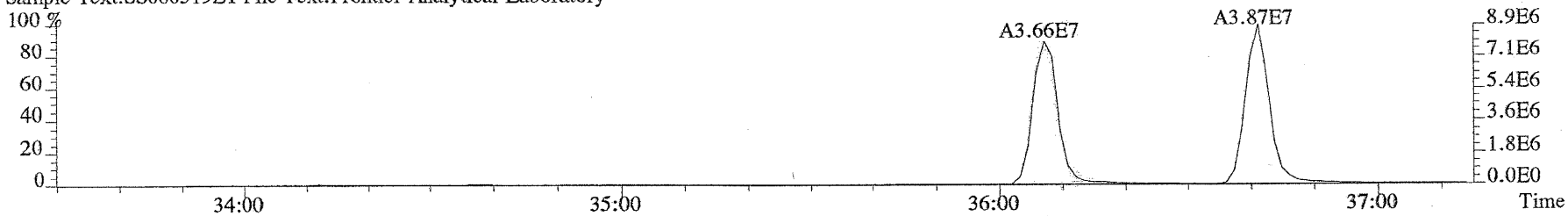
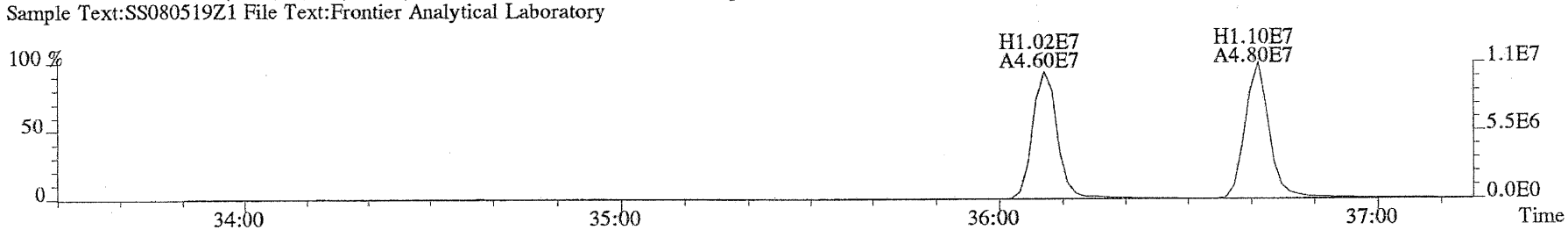
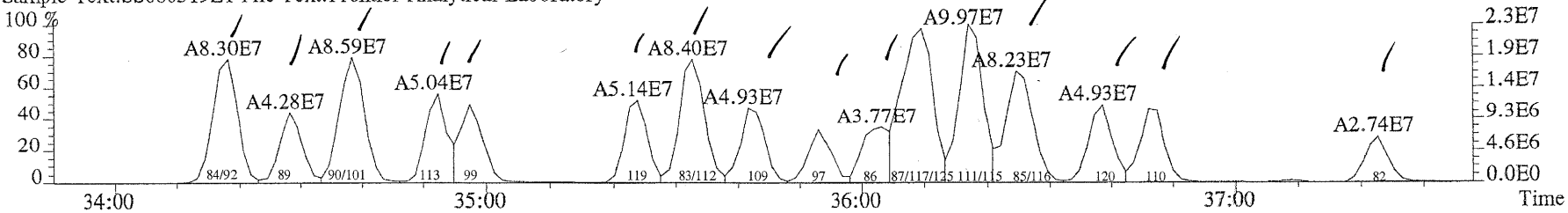
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



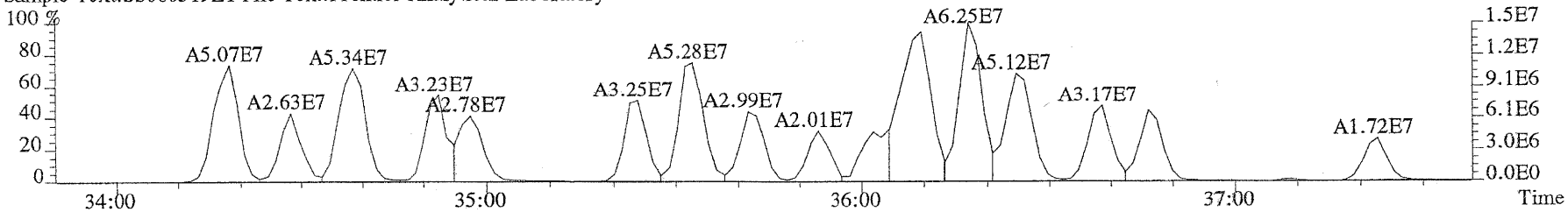
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



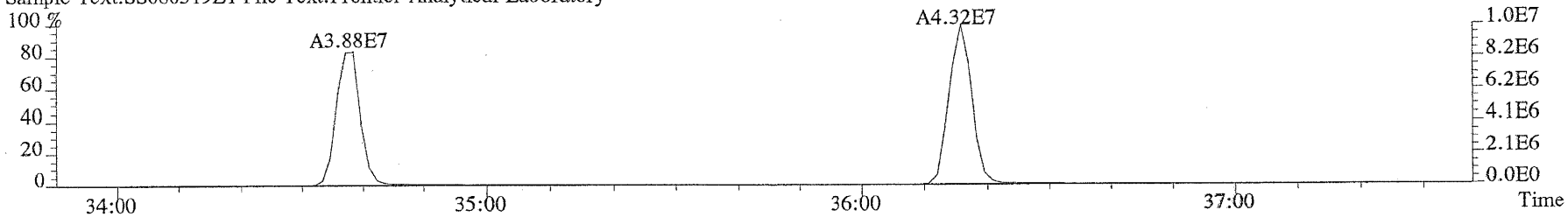
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



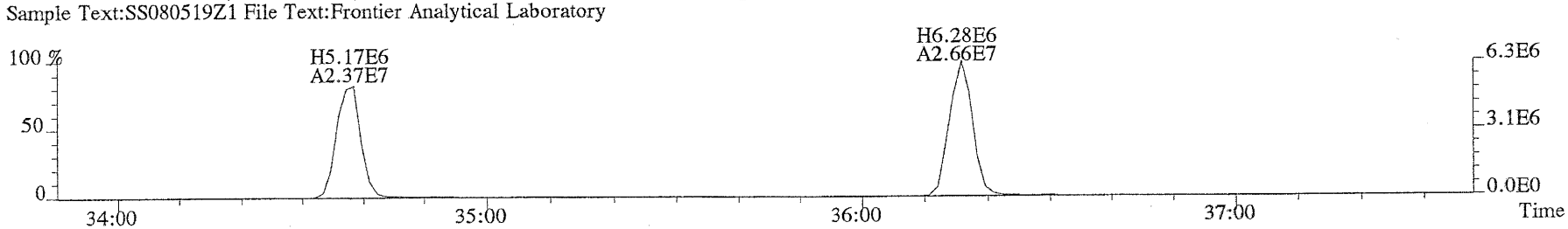
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



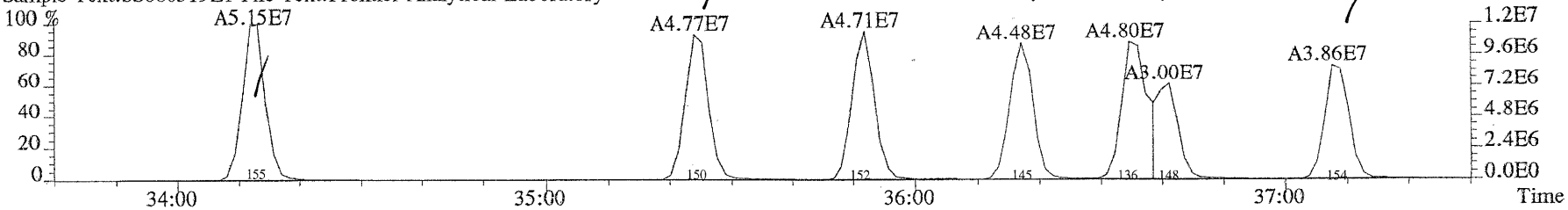
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



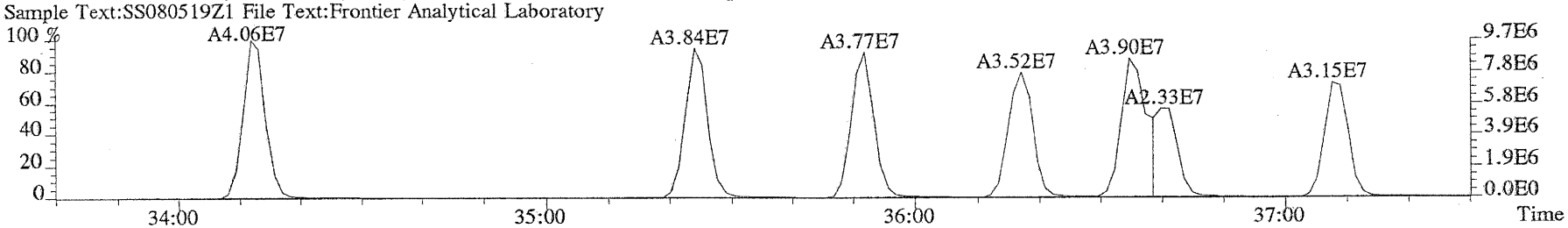
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



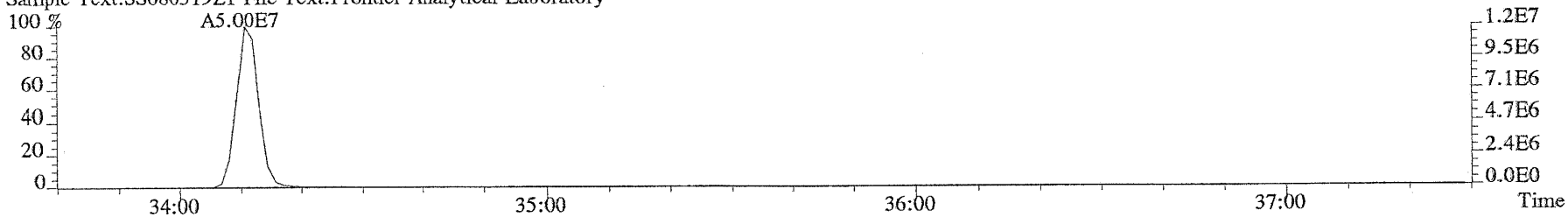
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



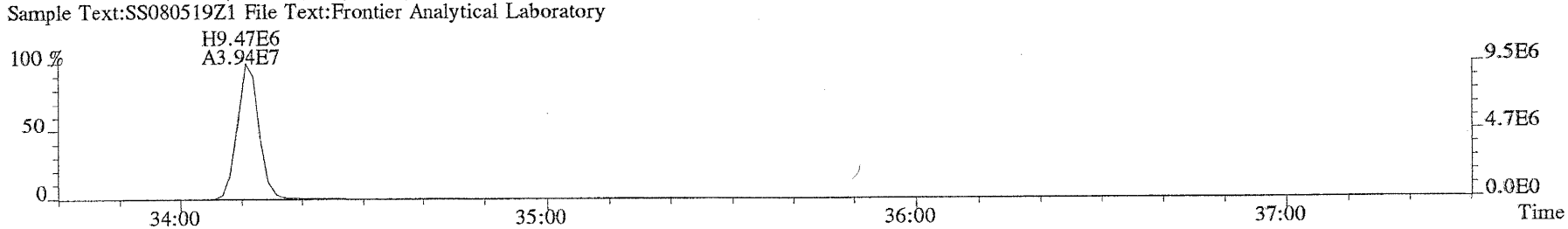
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



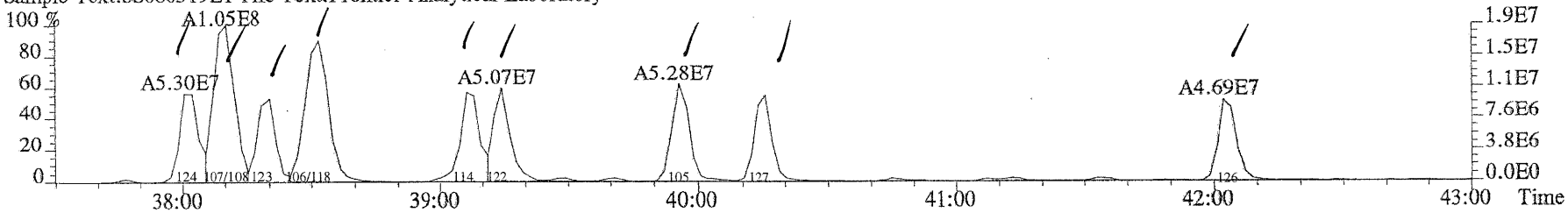
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



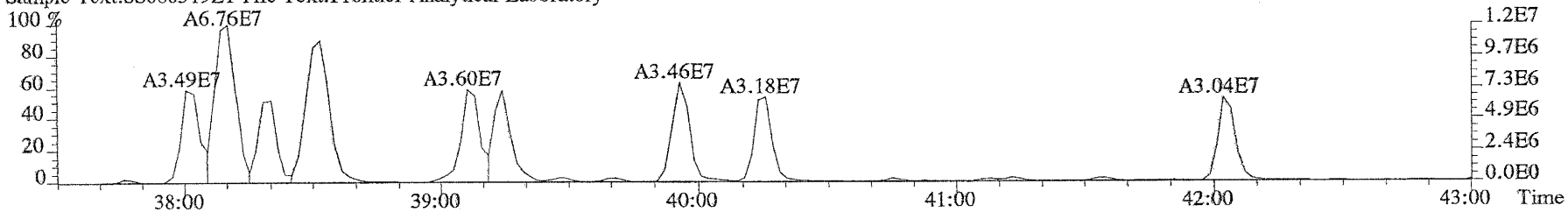
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



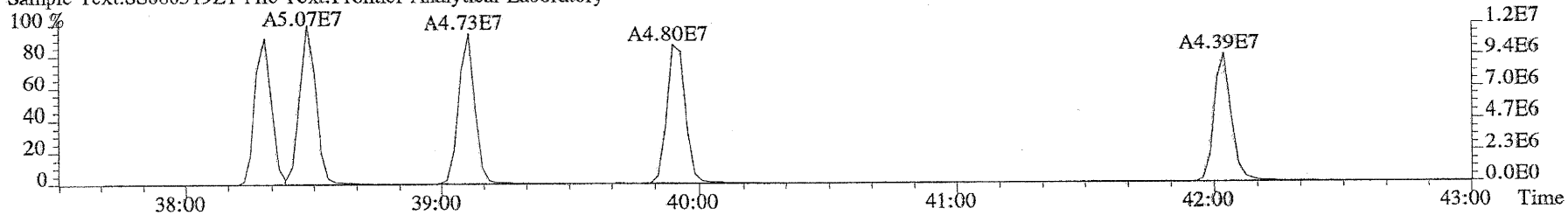
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



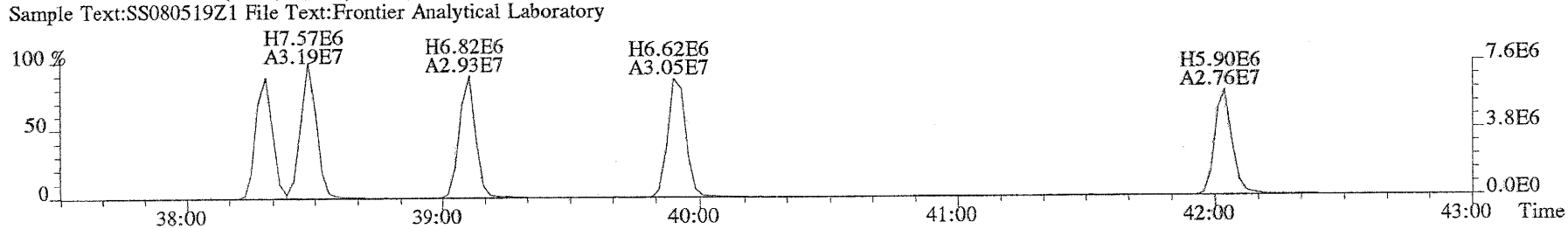
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



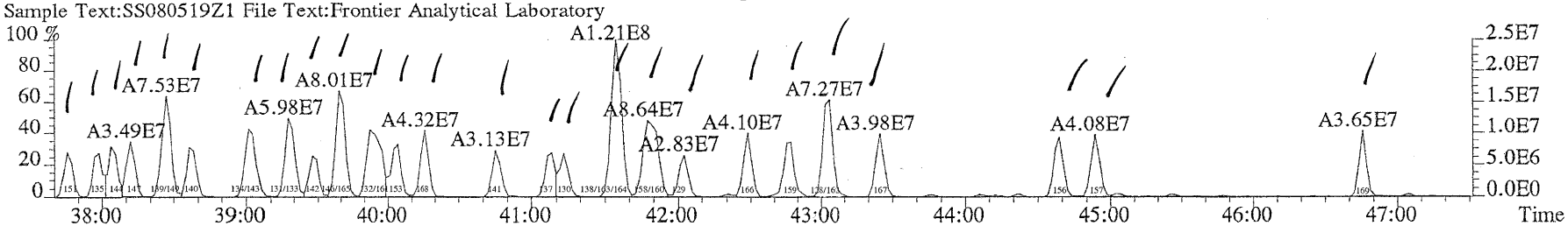
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



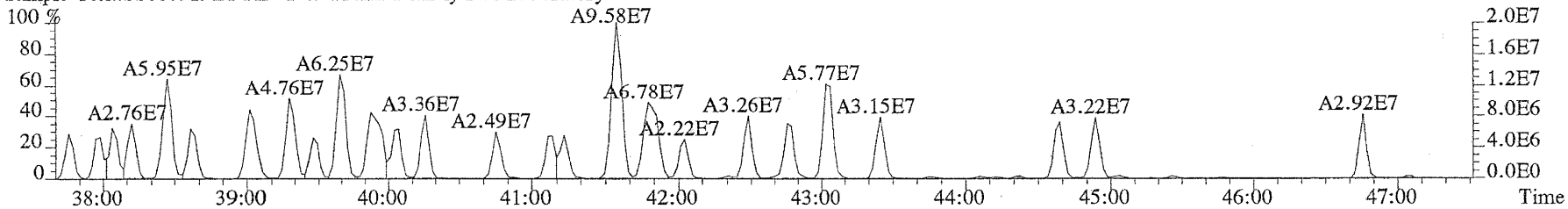
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



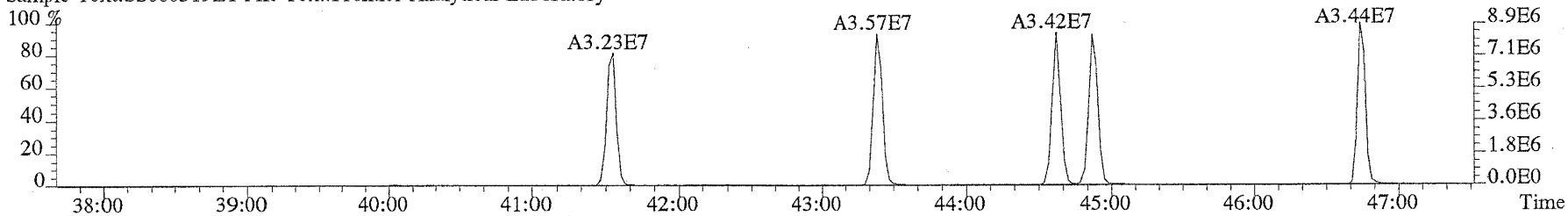
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



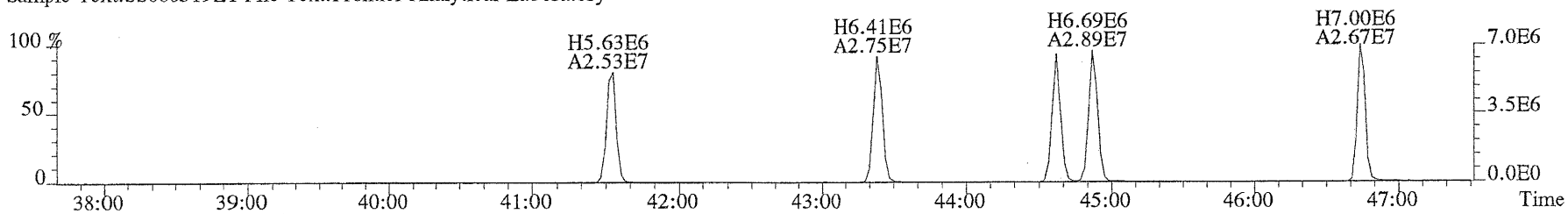
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



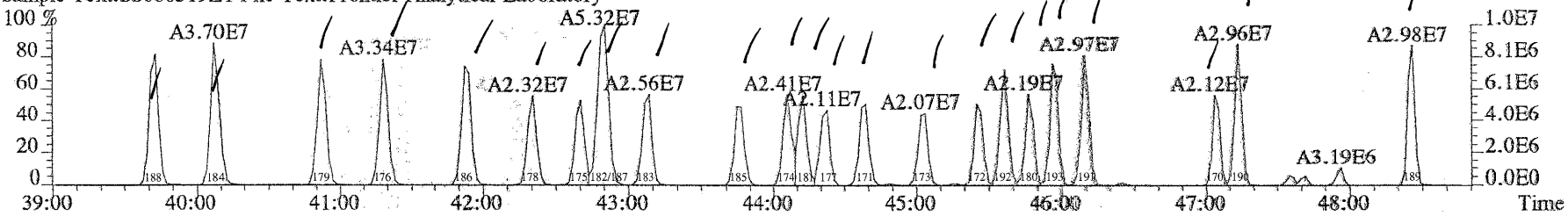
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



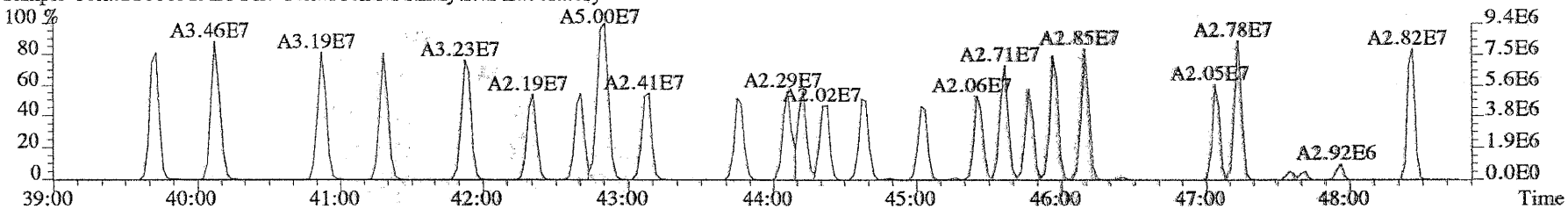
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



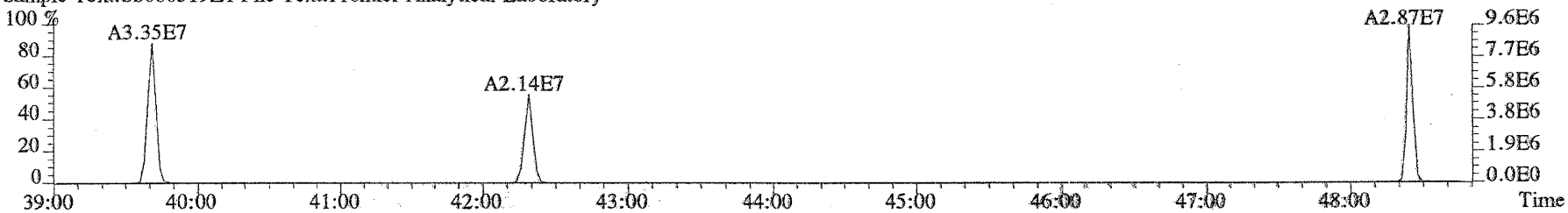
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



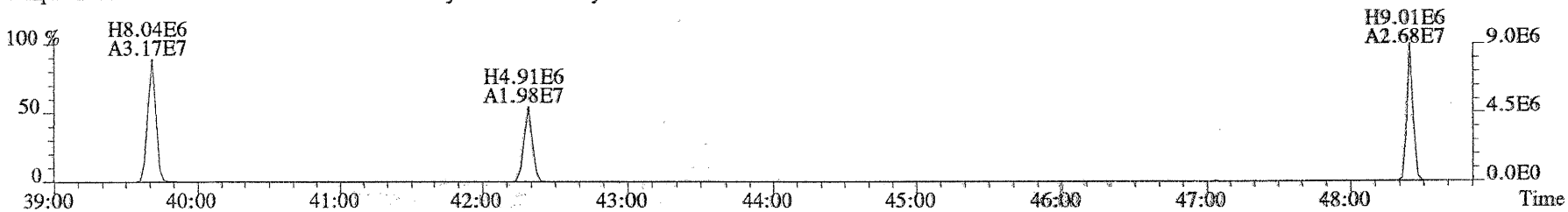
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



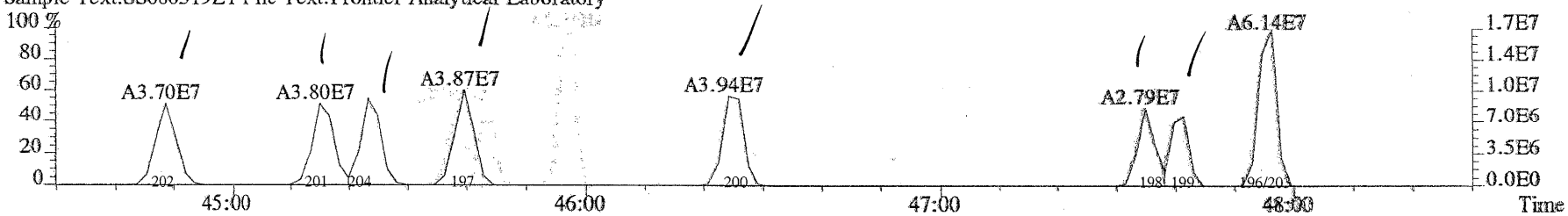
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



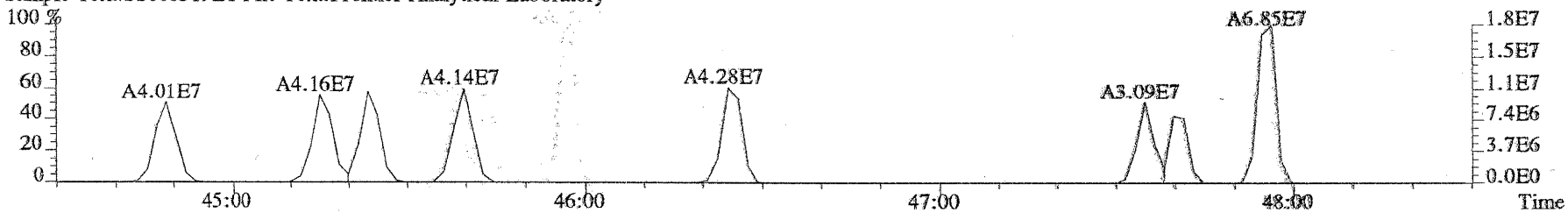
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



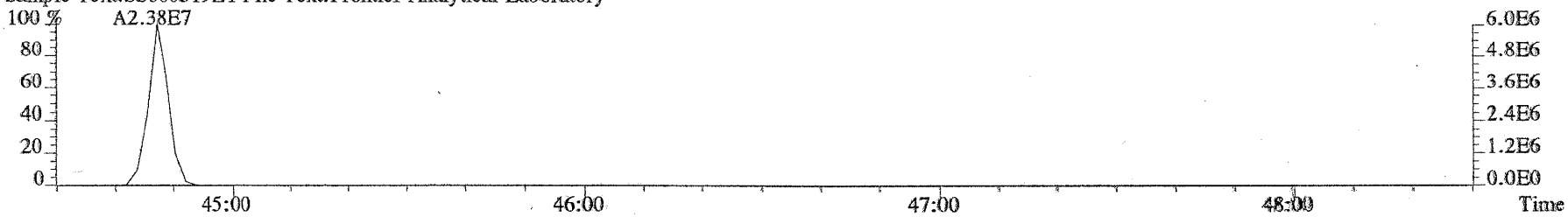
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



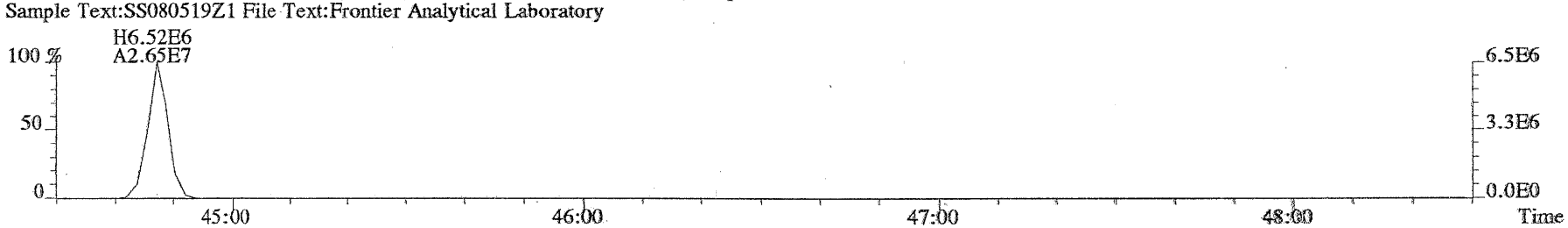
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



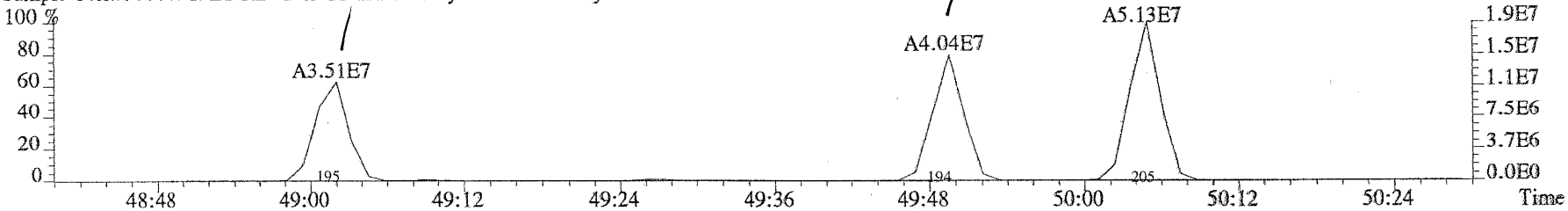
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



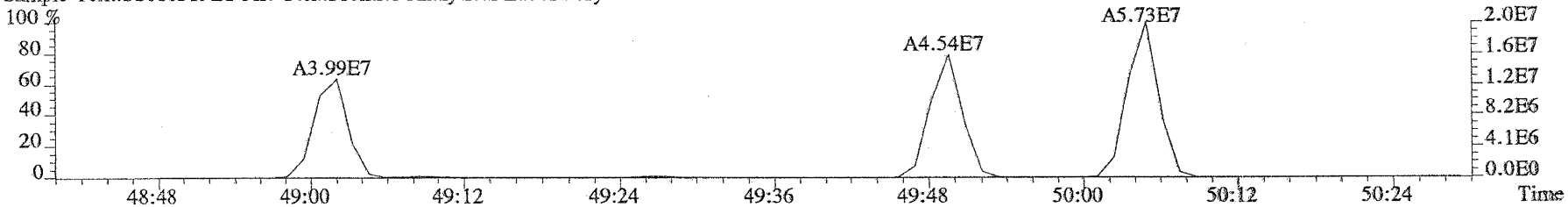
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



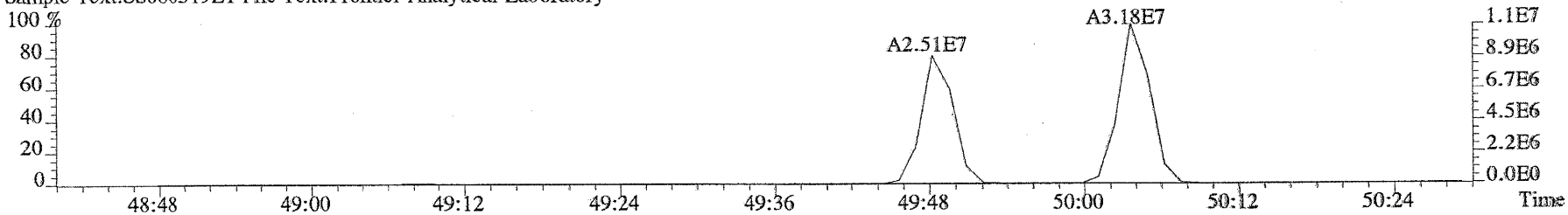
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



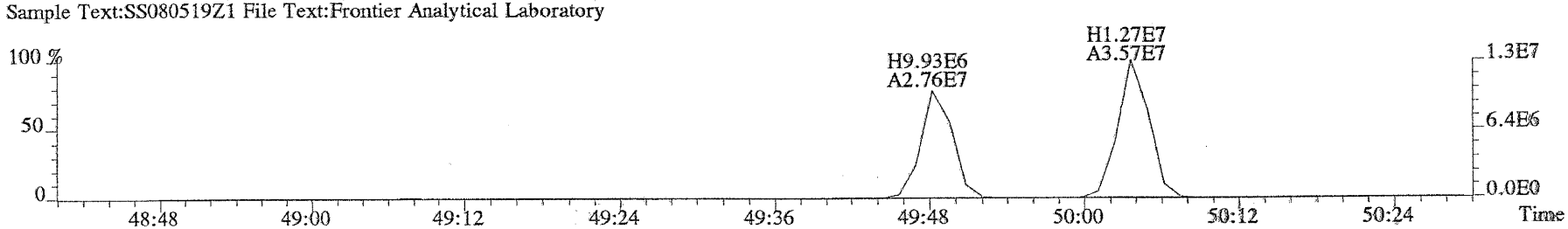
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



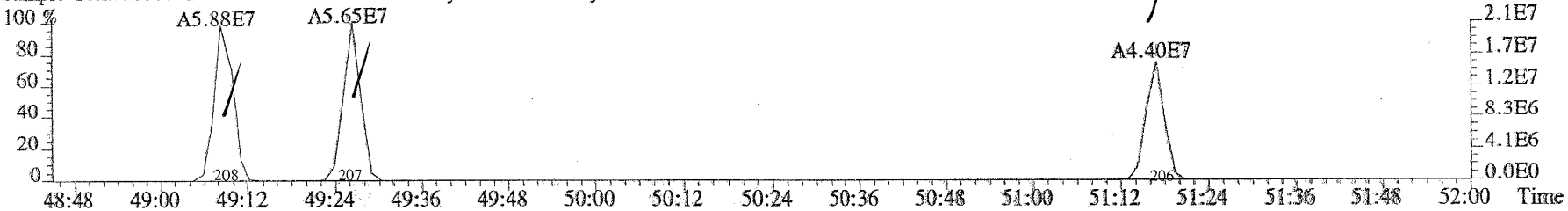
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



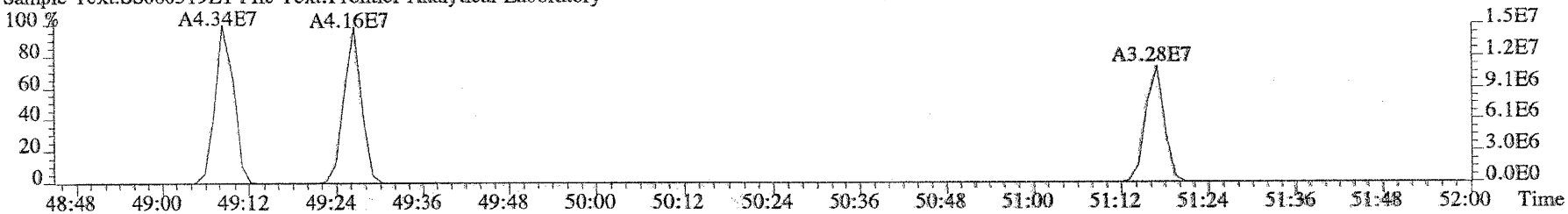
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



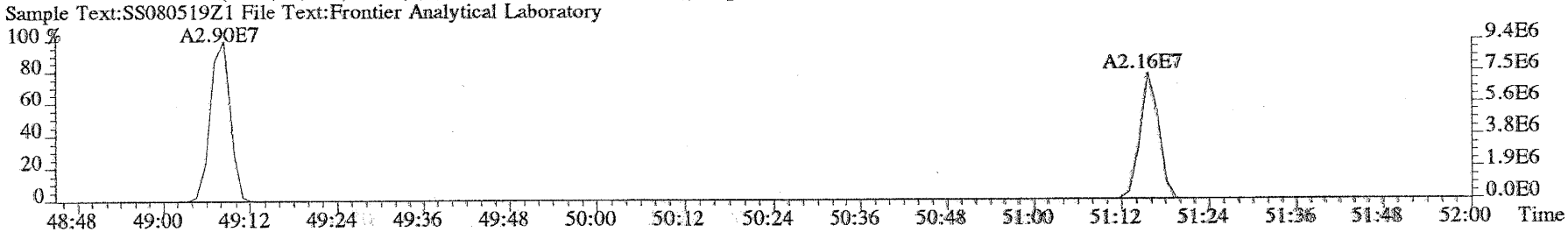
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



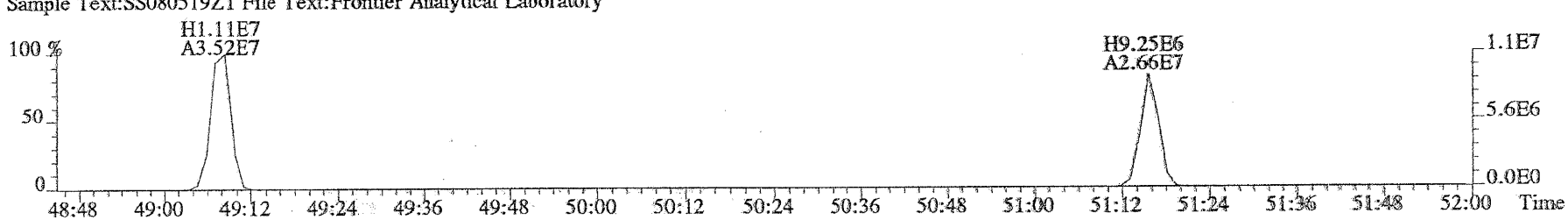
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



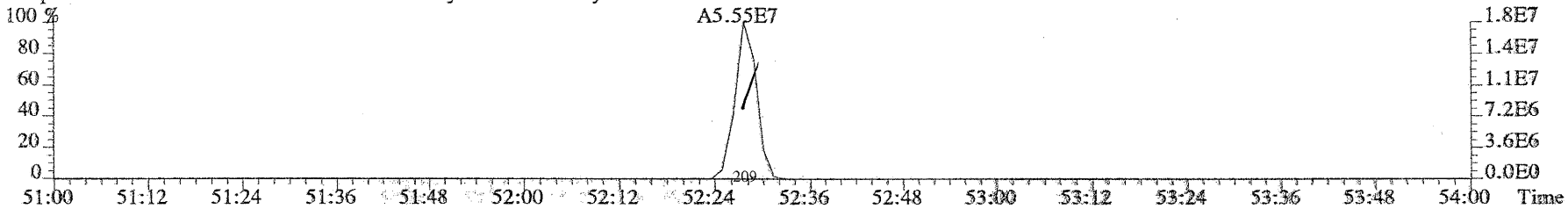
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



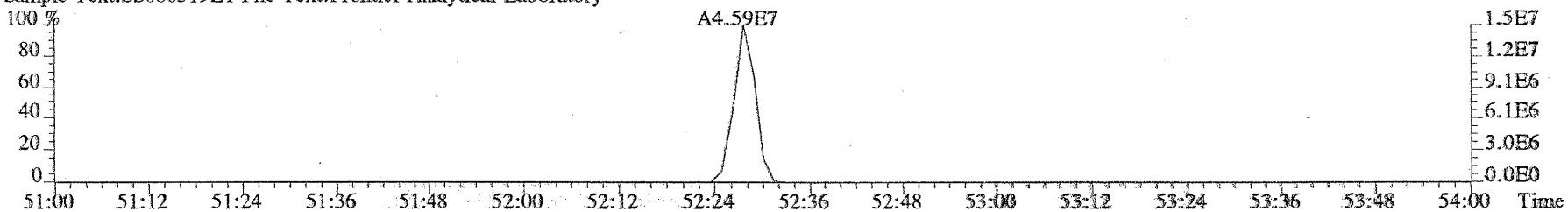
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



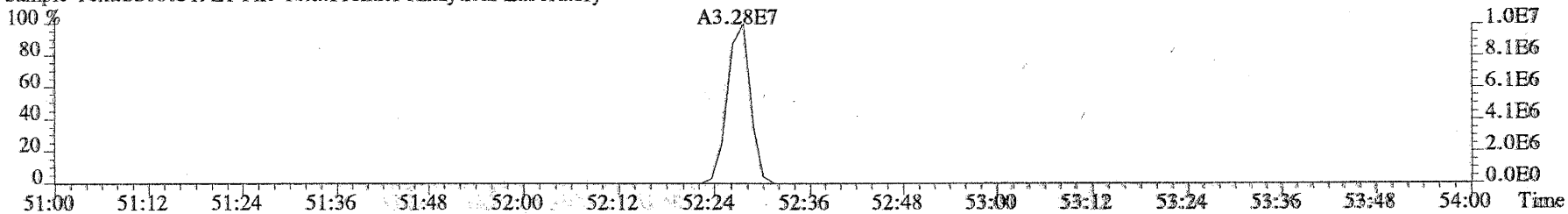
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



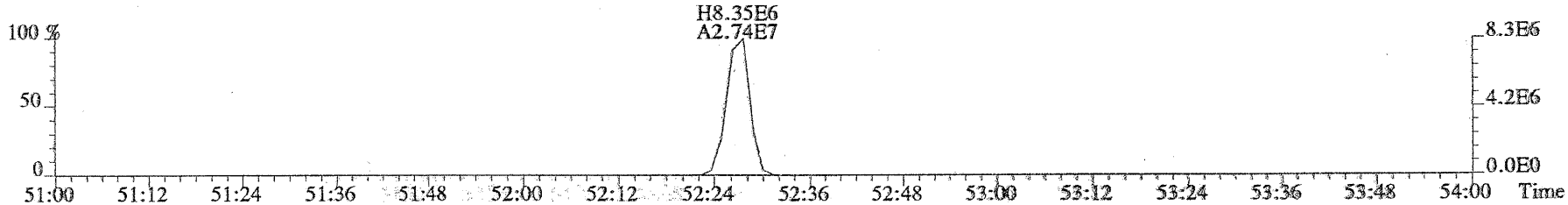
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 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:SS080519Z1 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 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:SS080519Z1 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: 05AUG19Z Sam:16 Analysis Date: 6-AUG-19 00:11:49

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.14	2.66-3.60	y	49.6	37.5 - 62.5
PCB-3	M/M+2	3.09	2.66-3.60	y	50.5	37.5 - 62.5
PCB-4	M/M+2	1.58	1.33-1.79	y	51.6	37.5 - 62.5
PCB-15	M/M+2	1.60	1.33-1.79	y	51.1	37.5 - 62.5
PCB-19	M/M+2	1.03	0.88-1.20	y	51.9	37.5 - 62.5
PCB-37	M/M+2	1.10	0.88-1.20	y	53.3	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	51.8	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	48.1	37.5 - 62.5
PCB-81	M/M+2	0.80	0.65-0.89	y	44.8	37.5 - 62.5
PCB-104	M+2/M+4	1.56	1.32-1.78	y	50.8	37.5 - 62.5
PCB-105	M+2/M+4	1.54	1.32-1.78	y	52.2	37.5 - 62.5
PCB-114	M+2/M+4	1.56	1.32-1.78	y	54.4	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	53.5	37.5 - 62.5
PCB-123	M+2/M+4	1.57	1.32-1.78	y	52.7	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	54.2	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	53.1	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	51.0	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	51.2	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	51.2	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	51.7	37.5 - 62.5
PCB-188	M+2/M+4	1.02	0.89-1.21	y	53.6	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	53.5	37.5 - 62.5
PCB-202	M+2/M+4	0.95	0.76-1.02	y	51.9	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	53.1	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	52.6	37.5 - 62.5
PCB-208	M+4/M+6	1.33	1.13-1.53	y	53.7	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	51.5	37.5 - 62.5

Analyst: [signature] Date: 8/6/19

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: 05AUG19Z Sam:16 Analysis Date: 6-AUG-19 00:11:49

	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	3.20	2.66-3.60	y	102	50.0 - 145
13C-PCB-3	M/M+2	3.21	2.66-3.60	y	93.3	50.0 - 145
13C-PCB-4	M/M+2	1.58	1.33-1.79	y	104	50.0 - 145
13C-PCB-15	M/M+2	1.69	1.33-1.79	y	89.5	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	101	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	88.1	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	113	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	72.7	50.0 - 145
13C-PCB-81	M/M+2	0.77	0.65-0.89	y	76.7	50.0 - 145
13C-PCB-104	M+2/M+4	1.58	1.32-1.78	y	111	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	85.2	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	83.3	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	84.1	50.0 - 145
13C-PCB-123	M+2/M+4	1.62	1.32-1.78	y	83.9	50.0 - 145
13C-PCB-126	M+2/M+4	1.59	1.32-1.78	y	83.1	50.0 - 145
13C-PCB-155	M+2/M+4	1.33	1.05-1.43	y	97.8	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	92.9	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	92.7	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	92.5	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	102	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	119	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	120	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	109	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	92.8	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	95.7	50.0 - 145
13C-PCB-208	M+2/M+4	0.83	0.65-0.89	y	96.2	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	1.05	0.88-1.20	y	100	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	102	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	111	75.0 - 125

Analyst: [signature] Date: 8/6/19

FAL ID: ST080519Z2 Filename: 05AUG19Z Sam:16 Acquired: 6-AUG-19 00:11:49 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 05AUG19Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	9.10e+07	3.14 y	14:33	1.19	49.6		2.50	-	-	*	-
13C-PCB-1	1.54e+08	3.20 y	14:32	1.02	102		2.50				102
PCB-3	7.94e+07	3.09 y	16:59	1.18	50.5		2.50	-	-	*	-
13C-PCB-3	1.34e+08	3.21 y	16:58	0.97	93.3		2.50				93.3
PCB-4	6.11e+07	1.58 y	18:13	1.04	51.6		2.50	-	-	*	-
13C-PCB-4	1.13e+08	1.58 y	18:11	0.74	104		2.50				104
PCB-15	6.71e+07	1.60 y	23:45	1.03	51.1		2.50	-	-	*	-
13C-PCB-15	1.27e+08	1.69 y	23:43	0.96	89.5		2.50				89.5
PCB-19	4.54e+07	1.03 y	22:06	1.11	51.9		2.50	-	-	*	-
13C-PCB-19	7.88e+07	1.07 y	22:04	0.53	101		2.50				101
13C-PCB-9	1.48e+08	1.61 y	19:52	-	191		2.50				
PCB-37	5.19e+07	1.10 y	30:23	1.04	53.3		2.50	-	-	*	-
13C-PCB-37	9.40e+07	1.06 y	30:21	1.57	88.1		2.50				88.1
PCB-54	6.42e+07	0.79 y	25:37	1.16	51.8		2.50	-	-	*	-
13C-PCB-54	1.06e+08	0.81 y	25:36	1.38	113		2.50				113
PCB-104	4.57e+07	1.56 y	30:04	1.08	50.8		2.50	-	-	*	-
13C-PCB-104	8.32e+07	1.58 y	30:01	1.11	111		2.50				111
13C-PCB-28	1.17e+08	1.05 y	26:42	1.71	100		2.50				100
13C-PCB-52	6.81e+07	0.79 y	28:57	-	178		2.50				
PCB-81	3.41e+07	0.80 y	36:09	1.06	44.8		2.50	-	-	*	-
13C-PCB-81	7.16e+07	0.77 y	36:08	1.50	76.7		2.50				76.7
PCB-77	3.48e+07	0.80 y	36:43	1.02	48.1		2.50	-	-	*	-
13C-PCB-77	7.08e+07	0.79 y	36:42	1.57	72.7		2.50				72.7
PCB-155	4.70e+07	1.26 y	34:13	1.02	53.1		2.50	-	-	*	-
13C-PCB-155	8.63e+07	1.33 y	34:11	1.42	97.8		2.50				97.8
13C-PCB-111	8.18e+07	1.61 y	36:16	1.29	102		2.50				102
13C-PCB-101	6.22e+07	1.62 y	34:38	-	189		2.50				
PCB-123	3.25e+07	1.57 y	38:20	1.03	52.7		2.50	-	-	*	-
13C-PCB-123	5.97e+07	1.62 y	38:18	1.40	83.9		2.50				83.9
PCB-118	3.58e+07	1.56 y	38:29	1.02	53.5		2.50	-	-	*	-
13C-PCB-118	6.58e+07	1.58 y	38:29	1.53	84.1		2.50				84.1
PCB-114	3.39e+07	1.56 y	39:07	1.01	54.4		2.50	-	-	*	-
13C-PCB-114	6.15e+07	1.61 y	39:06	1.45	83.3		2.50				83.3
PCB-105	3.31e+07	1.54 y	39:57	1.02	52.2		2.50	-	-	*	-
13C-PCB-105	6.25e+07	1.60 y	39:55	1.44	85.2		2.50				85.2
PCB-126	3.20e+07	1.57 y	42:03	1.02	54.2		2.50	-	-	*	-
13C-PCB-126	5.81e+07	1.59 y	42:02	1.37	83.1		2.50				83.1
PCB-167	3.31e+07	1.26 y	43:24	1.07	51.2		2.50	-	-	*	-
13C-PCB-167	6.05e+07	1.28 y	43:24	1.28	92.5		2.50				92.5
PCB-156	3.28e+07	1.27 y	44:38	1.10	51.0		2.50	-	-	*	-
13C-PCB-156	5.86e+07	1.29 y	44:38	1.24	92.9		2.50				92.9
PCB-157	3.44e+07	1.27 y	44:53	1.06	51.2		2.50	-	-	*	-
13C-PCB-157	6.32e+07	1.30 y	44:53	1.34	92.7		2.50				92.7
PCB-169	3.56e+07	1.27 y	46:46	1.06	51.7		2.50	-	-	*	-
13C-PCB-169	6.49e+07	1.27 y	46:45	1.24	102		2.50				102
PCB-188	4.25e+07	1.02 y	39:42	1.02	53.6		2.50	-	-	*	-
13C-PCB-188	7.81e+07	1.07 y	39:40	1.29	119		2.50				119
PCB-189	3.46e+07	1.05 y	48:25	0.99	53.5		2.50	-	-	*	-
13C-PCB-189	6.53e+07	1.07 y	48:25	1.07	120		2.50				120
PCB-202	3.09e+07	0.95 y	44:50	0.99	51.9		2.50	-	-	*	-
13C-PCB-202	6.02e+07	0.92 y	44:48	1.09	109		2.50				109
13C-PCB-178	4.57e+07	1.07 y	42:18	0.81	111		2.50				111
13C-PCB-138	5.10e+07	1.28 y	41:32	-	159		2.50				

FAL ID: ST080519Z2 Filename: 05AUG19Z Sam:16 Acquired: 6-AUG-19 00:11:49 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 05AUG19Z GC Column: DB1MS Amount: 1.000

PCB-205	4.06e+07	0.89	y	50:05	1.02	53.1	2.50	-	-	*	-
13C-PCB-205	7.48e+07	0.90	y	50:05	1.40	92.8	2.50				92.8
PCB-208	3.95e+07	1.33	y	49:08	0.98	53.7	2.50	-	-	*	-
13C-PCB-208	7.54e+07	0.83	y	49:08	1.36	96.2	2.50				96.2
PCB-206	2.90e+07	1.36	y	51:17	0.99	52.6	2.50	-	-	*	-
13C-PCB-206	5.55e+07	0.81	y	51:15	1.01	95.7	2.50				95.7
PCB-209	3.95e+07	1.19	y	52:28	1.09	51.5	2.50	-	-	*	-
13C-PCB-209	7.03e+07	1.20	y	52:27	1.21	101	2.50				101
13C-PCB-194	5.76e+07	0.90	y	49:49	-	188	2.50				

Analyst: _____ Date: 8/6/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:05AUG19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

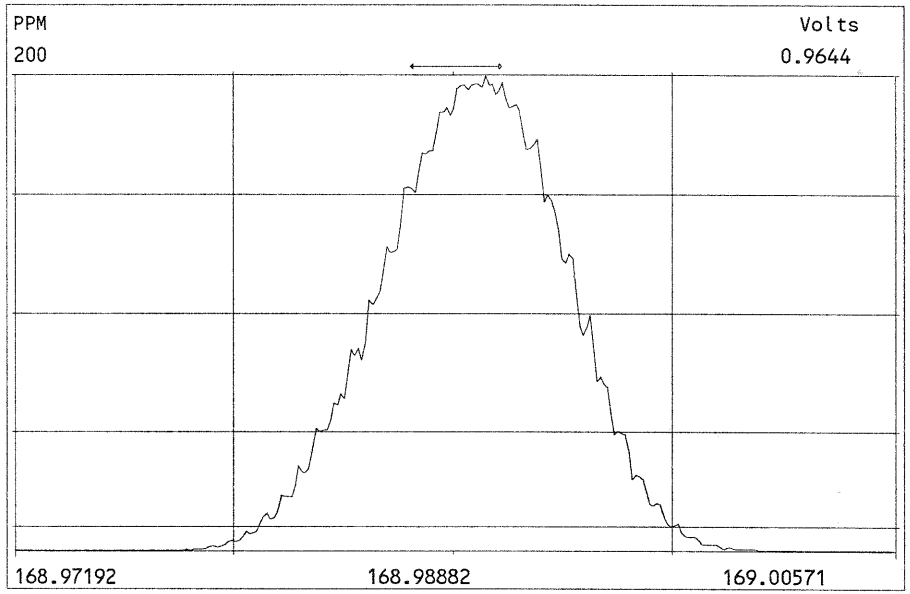
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
05AUG19Z	1	ST080519Z1	1668 CS3 R181204D	5-AUG-19 09:35:17	ST080519Z1	ST080519Z2	BS
05AUG19Z	2	SS080519Z1	Daily 209 190408A	5-AUG-19 10:33:37	ST080519Z1	ST080519Z2	BS
05AUG19Z	3	12511-009-0001-SA	LDW-Y2-IN-ENR-CE-S010	5-AUG-19 11:31:58	ST080519Z1	ST080519Z2	BS
05AUG19Z	4	12511-010-0001-SA	LDW-Y2-IN-ENR+AC-CA-SSWI	5-AUG-19 12:30:20	ST080519Z1	ST080519Z2	BS
05AUG19Z	5	12511-011-0001-SA	LDW-Y2-IN-ENR+AC-CB-SSWI	5-AUG-19 13:28:45	ST080519Z1	ST080519Z2	BS
05AUG19Z	6	12511-012-0001-SA	LDW-Y2-IN-ENR+AC-CC-SSWI	5-AUG-19 14:27:06	ST080519Z1	ST080519Z2	BS
05AUG19Z	7	12511-013-0001-SA	LDW-Y2-IN-ENR+AC-CD-SSWI	5-AUG-19 15:25:27	ST080519Z1	ST080519Z2	BS
05AUG19Z	8	12511-014-0001-SA	LDW-Y2-IN-ENR+AC-CE-SSWI	5-AUG-19 16:24:14	ST080519Z1	ST080519Z2	BS
05AUG19Z	9	12511-015-0001-SA	LDW-Y2-IN-ENR-CA-SSWI	5-AUG-19 17:22:59	ST080519Z1	ST080519Z2	BS
05AUG19Z	10	12512-012-0001-SA	LDW-Y2-SC-ENR-CB-S010	5-AUG-19 18:21:21	ST080519Z1	ST080519Z2	BS
05AUG19Z	11	12512-013-0001-SA	LDW-Y2-SC-ENR-CC-S010	5-AUG-19 19:19:42	ST080519Z1	ST080519Z2	BS
05AUG19Z	12	12512-014-0001-SA	LDW-Y2-SC-ENR-CD-S010	5-AUG-19 20:18:03	ST080519Z1	ST080519Z2	BS
05AUG19Z	13	12512-015-0001-SA	LDW-Y2-SC-ENR-CE-S010	5-AUG-19 21:16:25	ST080519Z1	ST080519Z2	BS
05AUG19Z	14	12512-016-0001-SA	LDW-Y2-SC-ENR+AC-CA/AC-CD-S0	5-AUG-19 22:14:45	ST080519Z1	ST080519Z2	BS
05AUG19Z	15	SB080519Z1	Solvent Blank	5-AUG-19 23:13:07	ST080519Z1	ST080519Z2	BS
05AUG19Z	16	ST080519Z2	1668 CS3 R181204D	6-AUG-19 00:11:49	ST080519Z1	ST080519Z2	BS

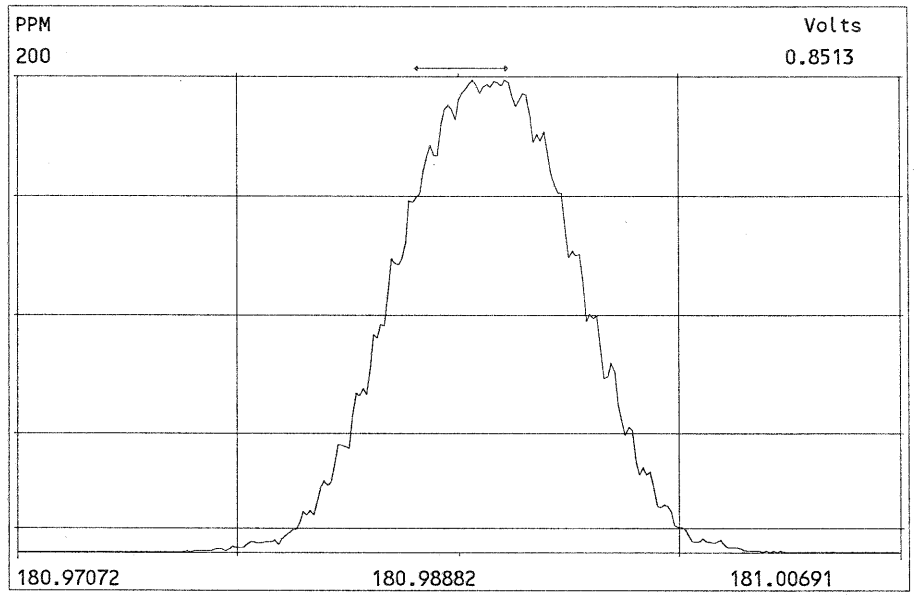
B 8/6/19

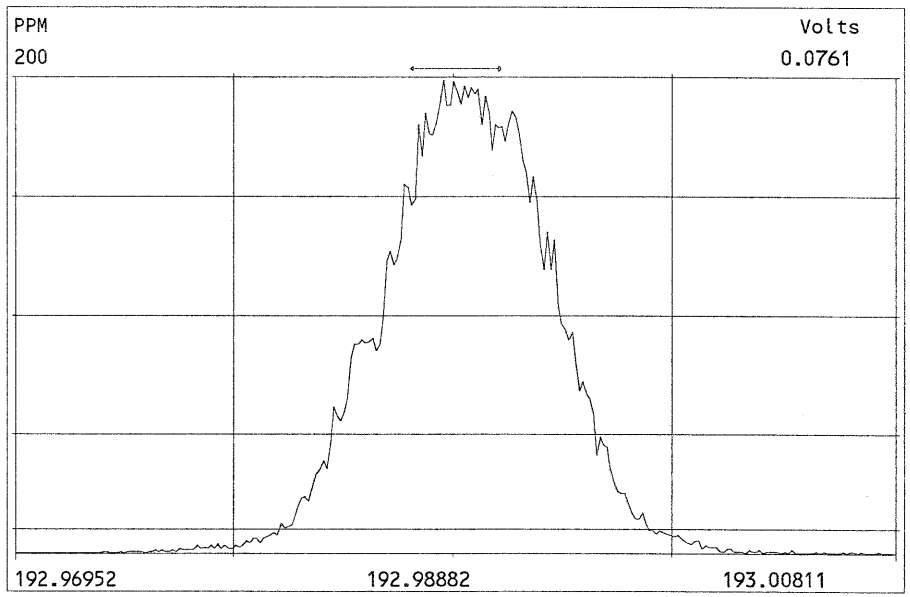
Data Backed Up:_____

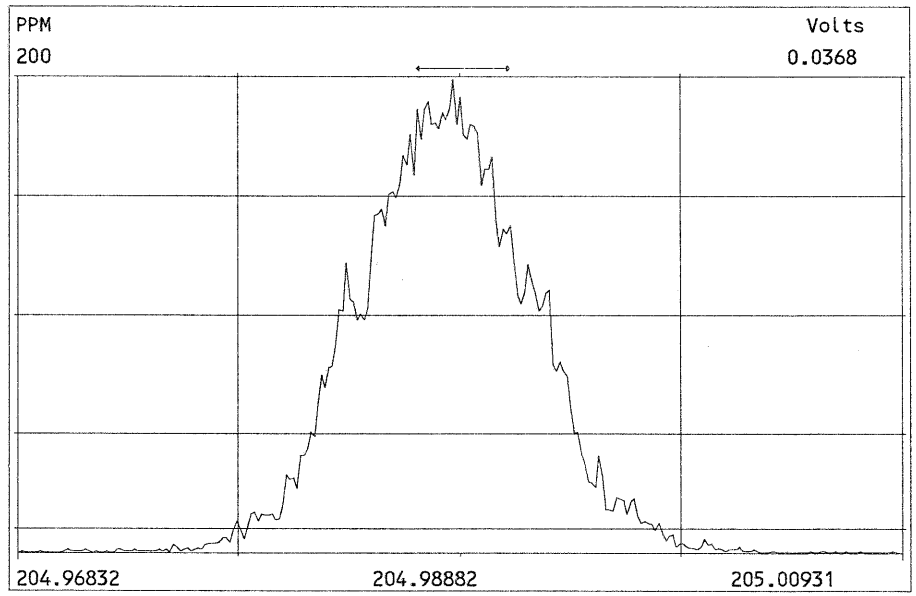
Date:_____

Peak Locate Examination: 5-AUG-2019:09:32 File:05AUG19Z
Experiment:1668PCB Function:1 Reference:PFK

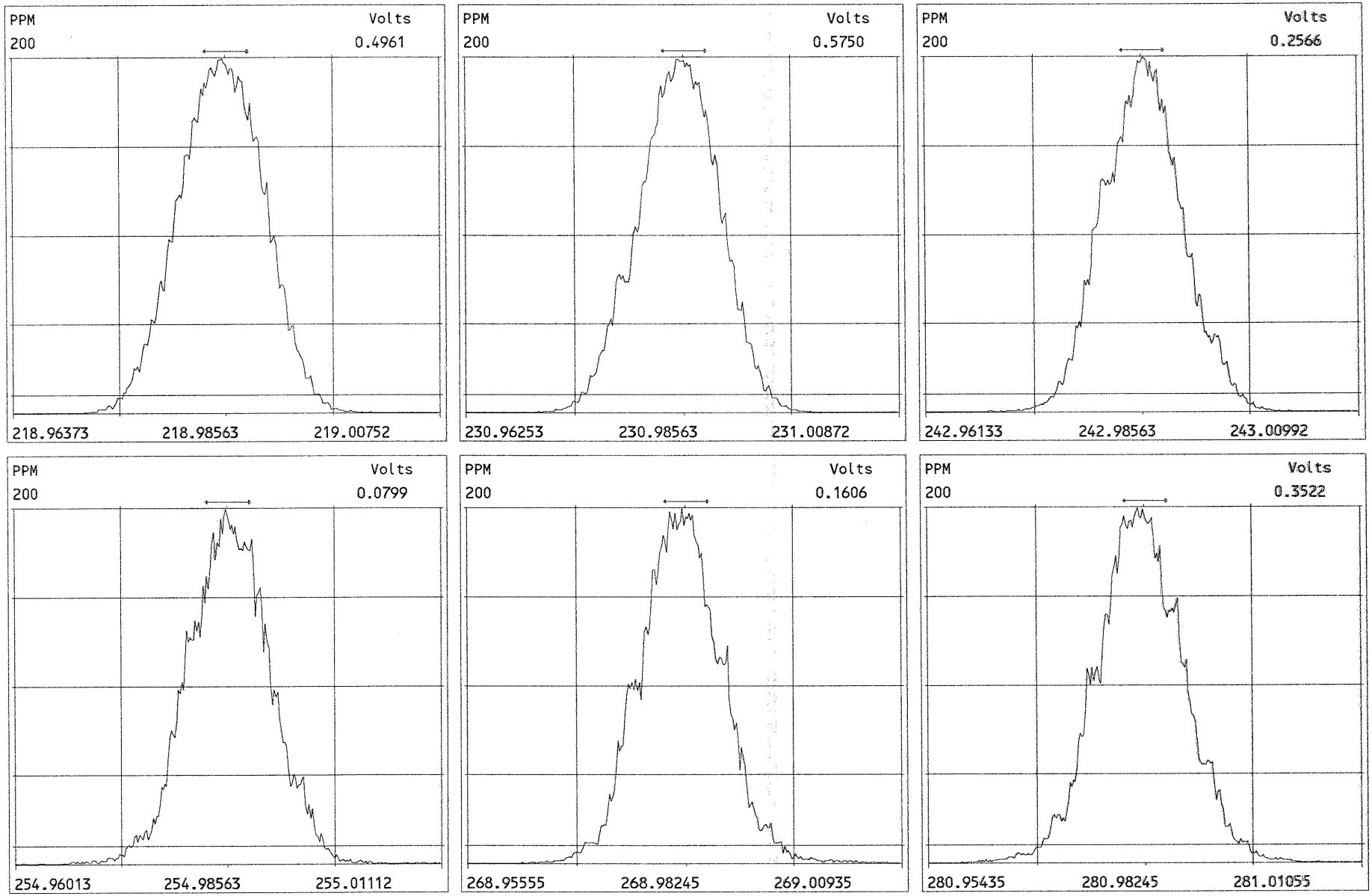




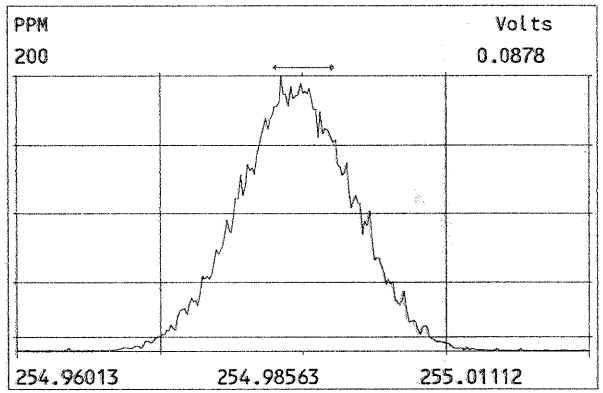


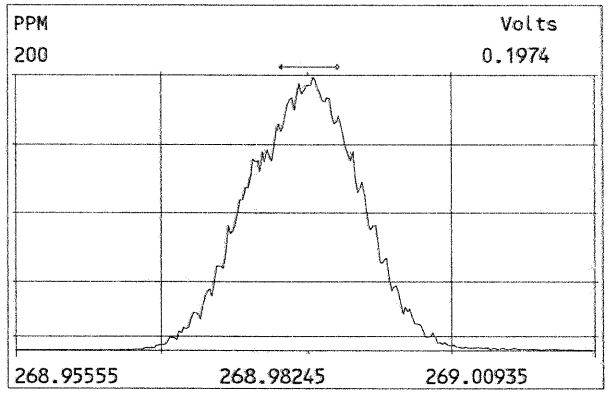


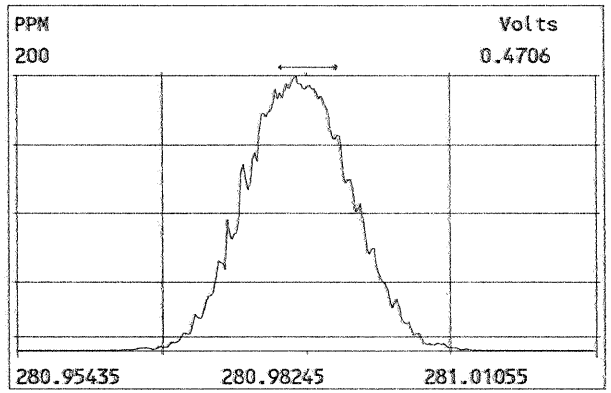
Peak Locate Examination: 5-AUG-2019:09:32 File:05AUG19Z
Experiment:1668PCB Function:2 Reference:PFK

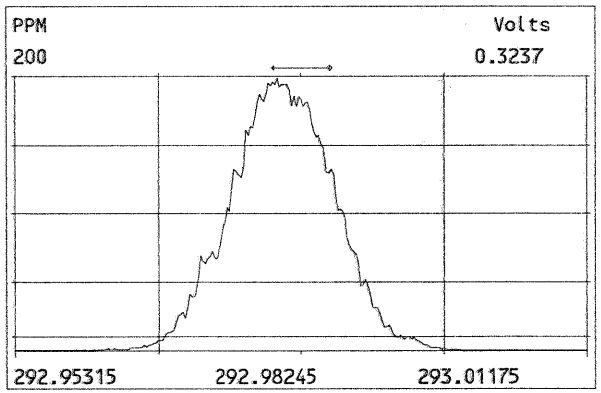


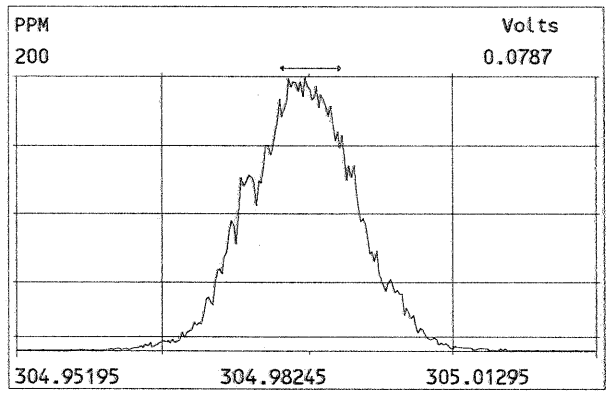
Peak Locate Examination: 5-AUG-2019:09:33 File:05AUG19Z
Experiment:1668PCB Function:3 Reference:PFK

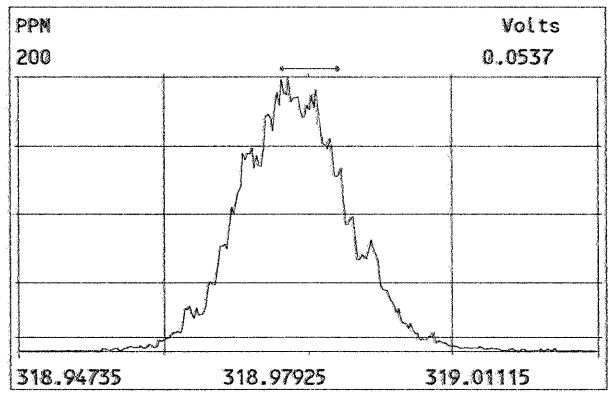


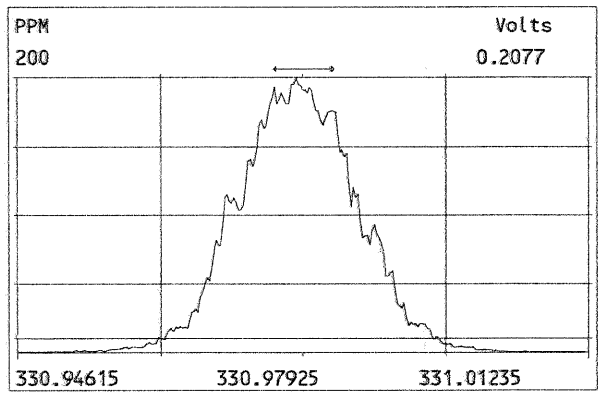


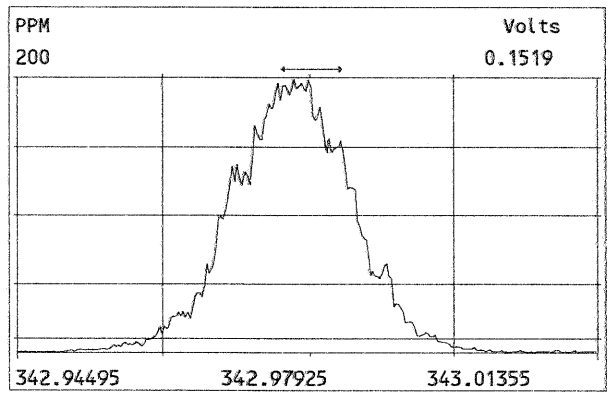




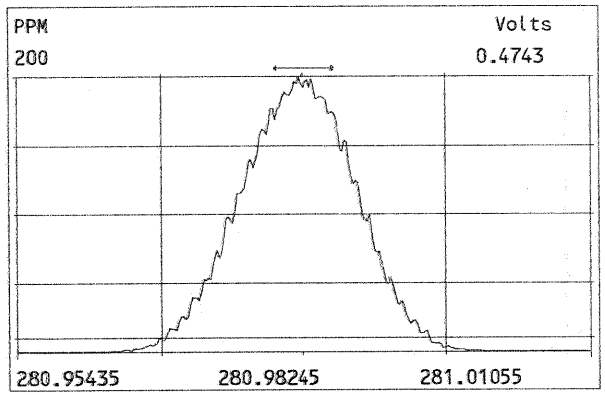


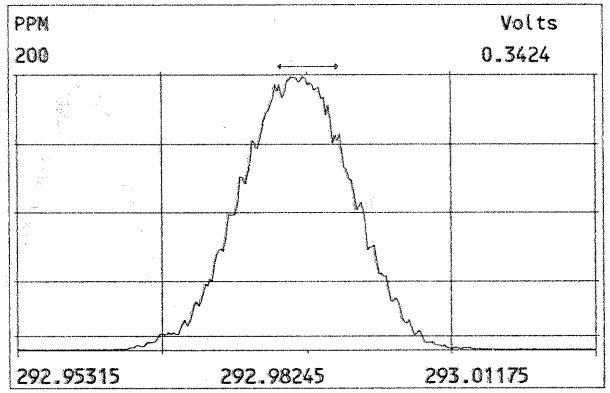


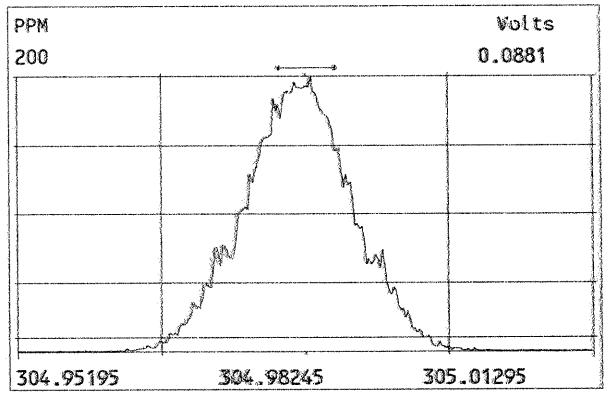


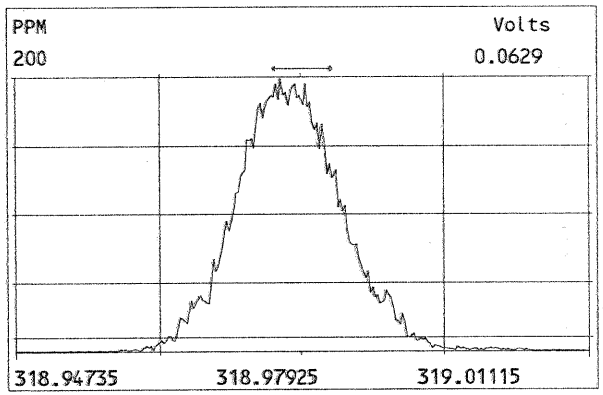


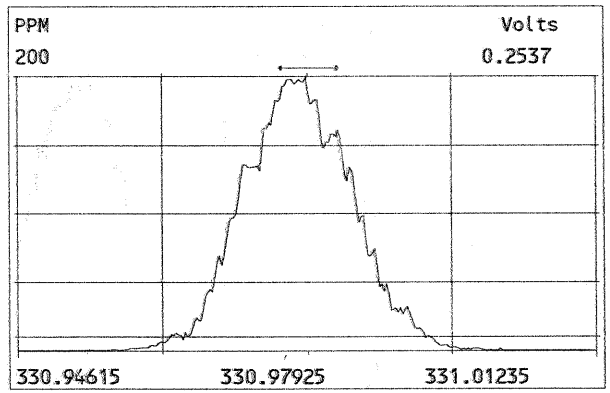
Peak Locate Examination: 5-AUG-2019:09:33 File:05AUG19Z
Experiment:1668PCB Function:4 Reference:PFK

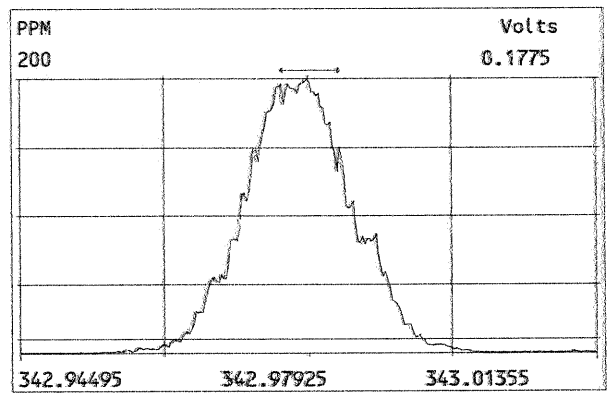


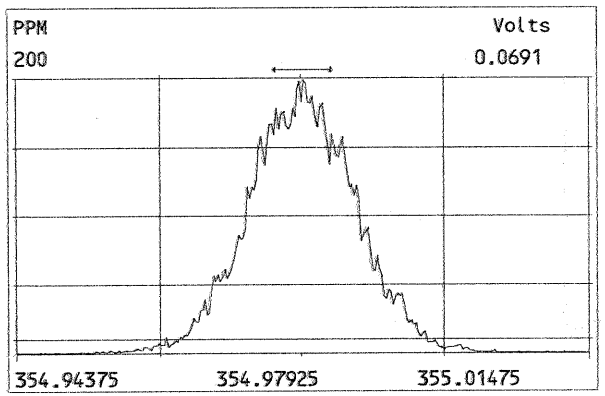


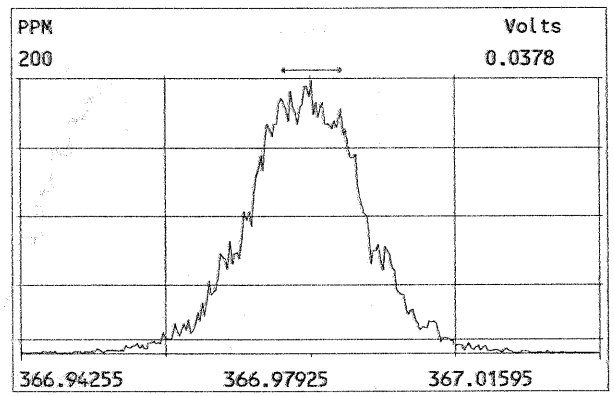


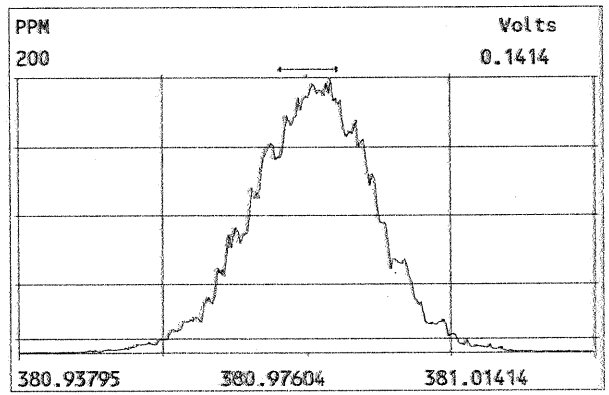




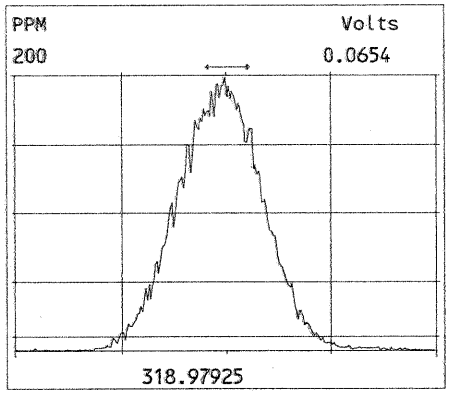


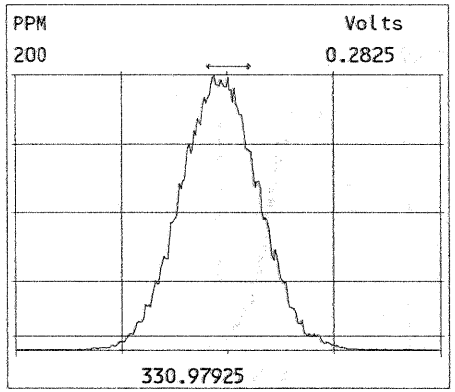


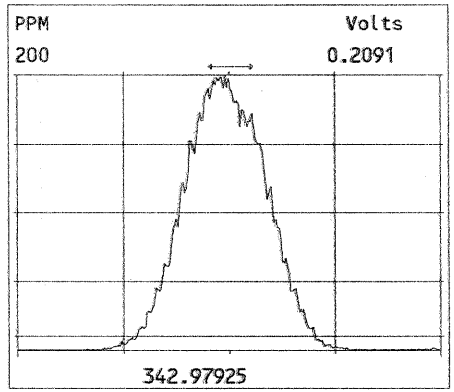


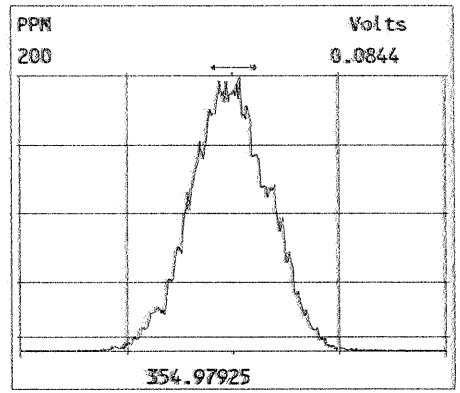


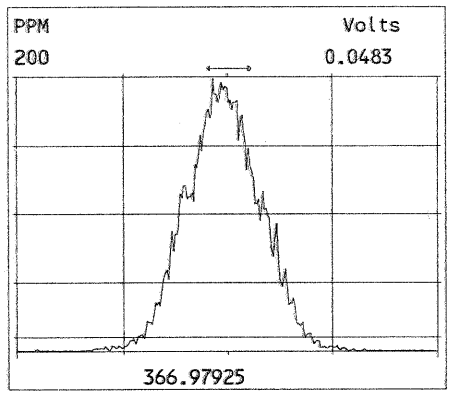
Peak Locate Examination: 5-AUG-2019:09:34 File:05AUG19Z
Experiment:1668PCB Function:5 Reference:PFK

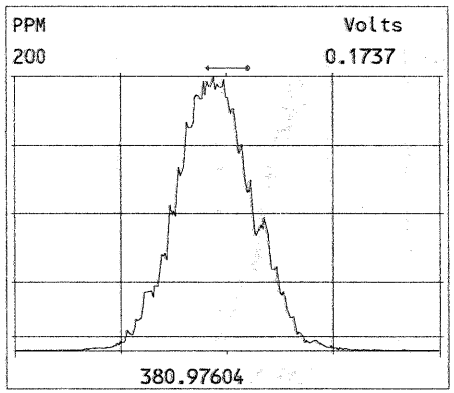


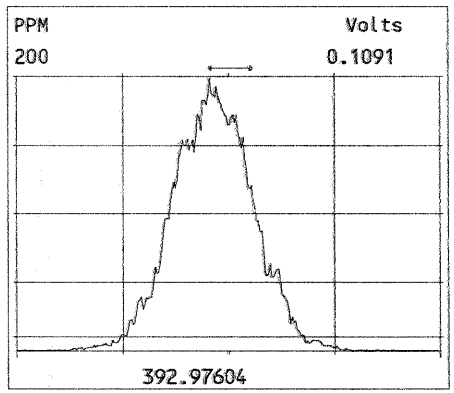


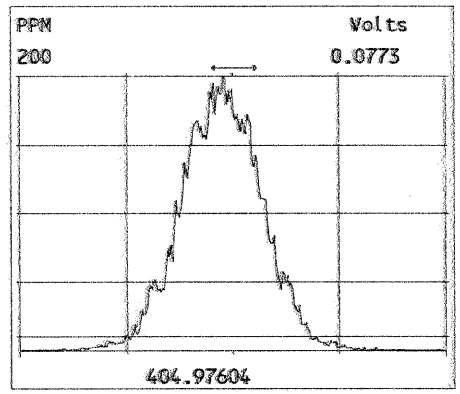


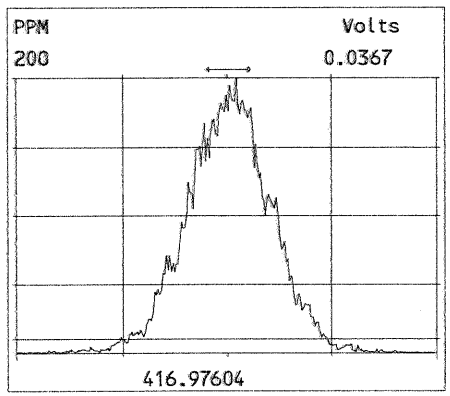


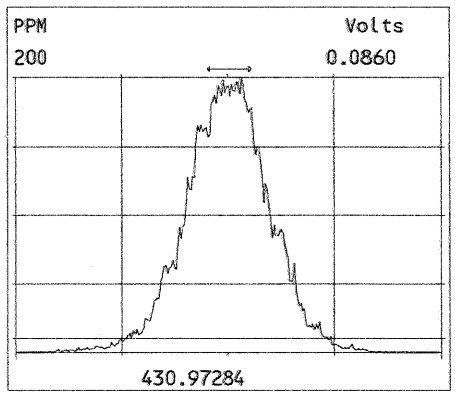


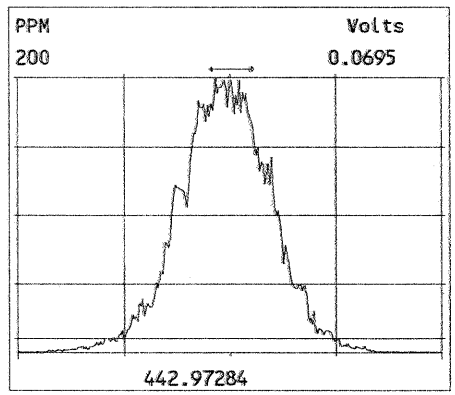




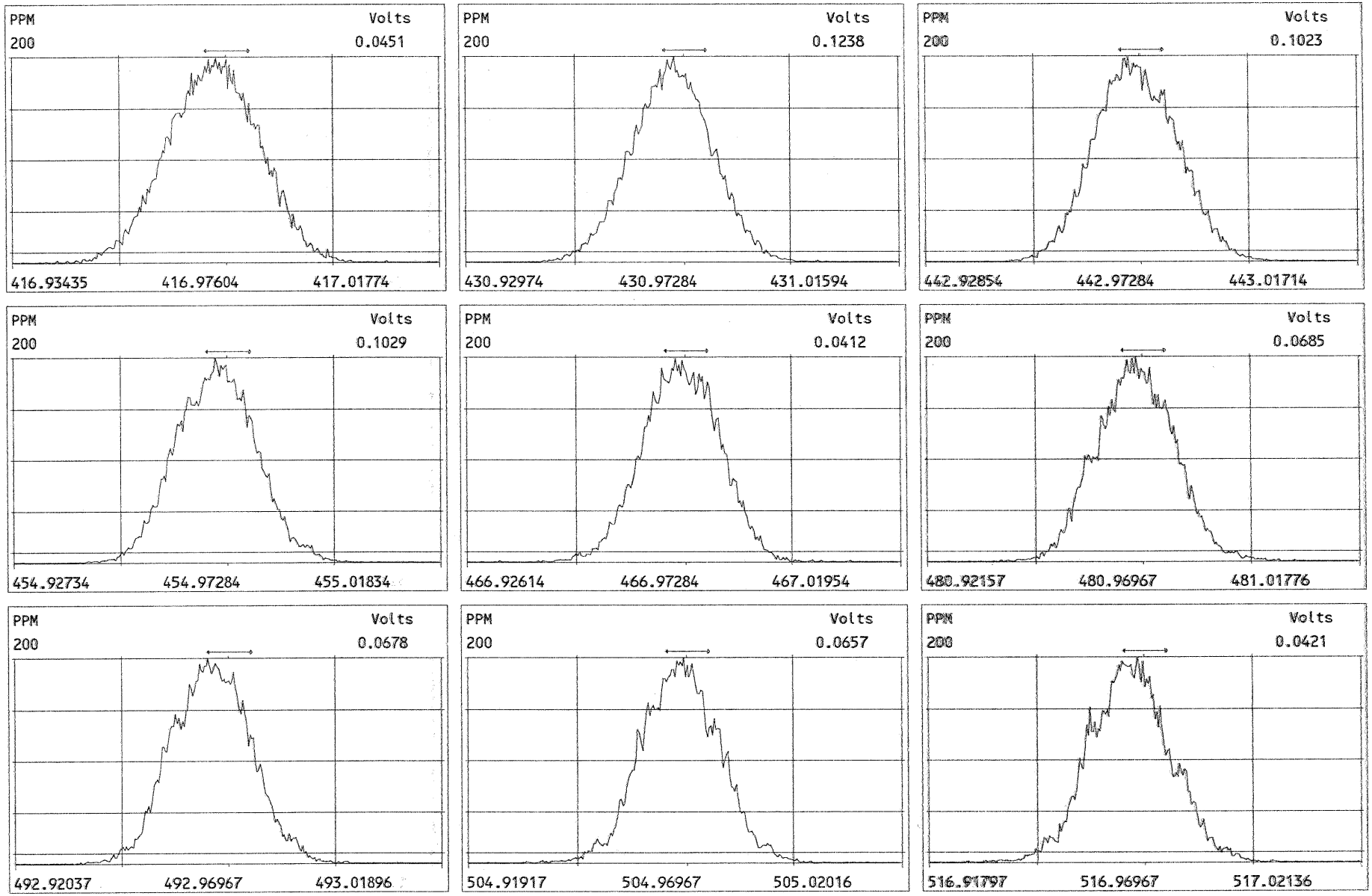




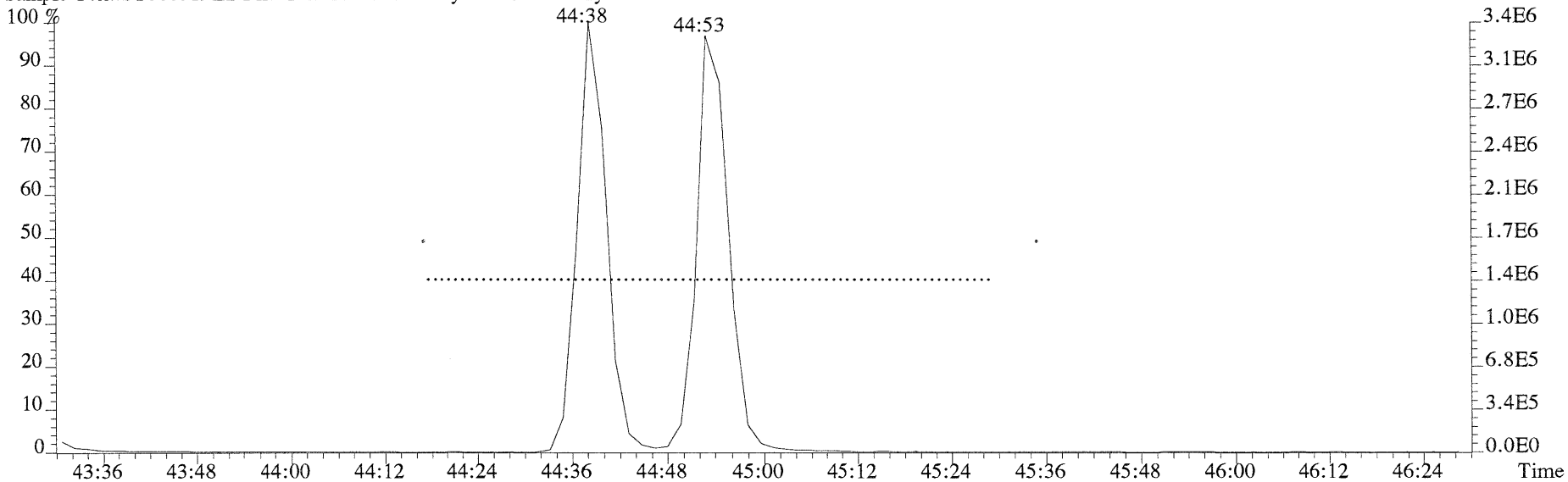




Peak Locate Examination: 5-AUG-2019:09:34 File:05AUG19Z
Experiment:1668PCB Function:6 Reference:PFK



File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



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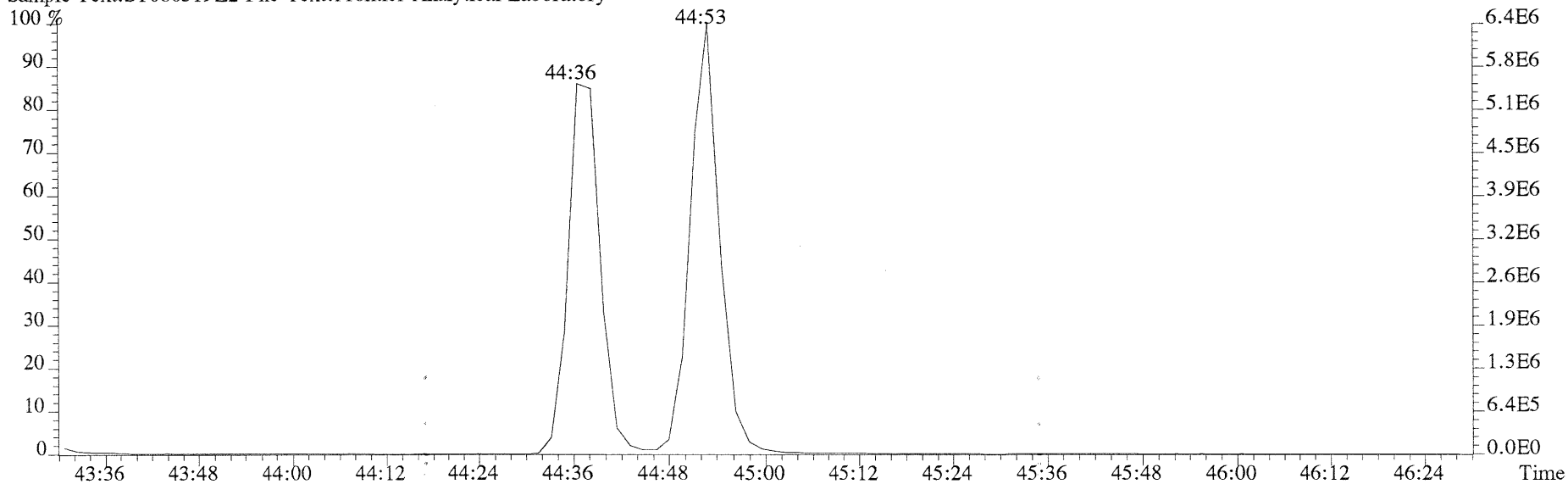
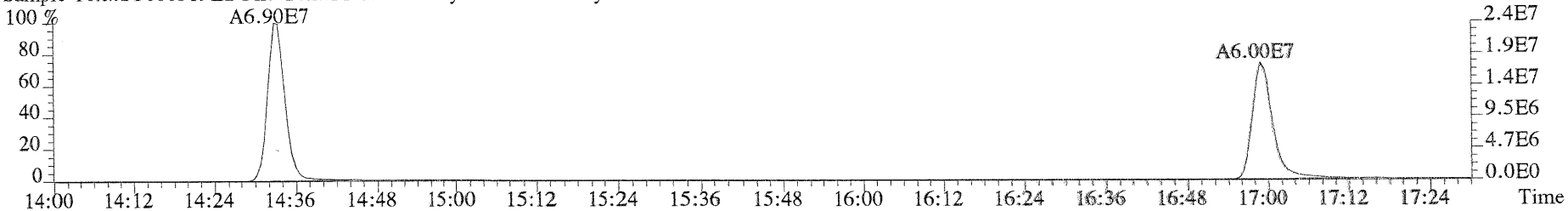
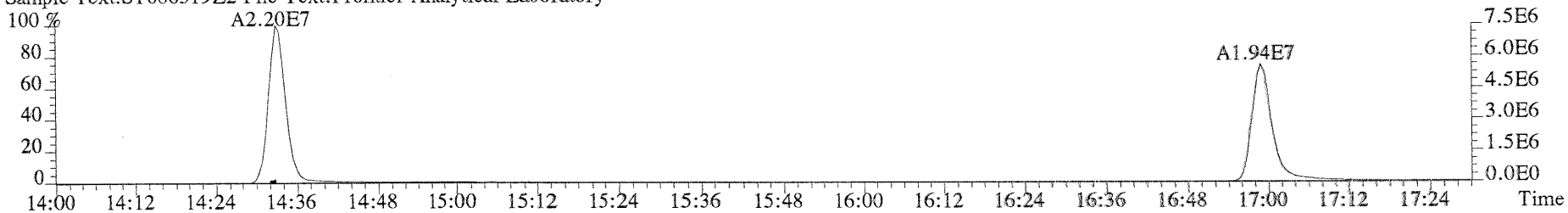


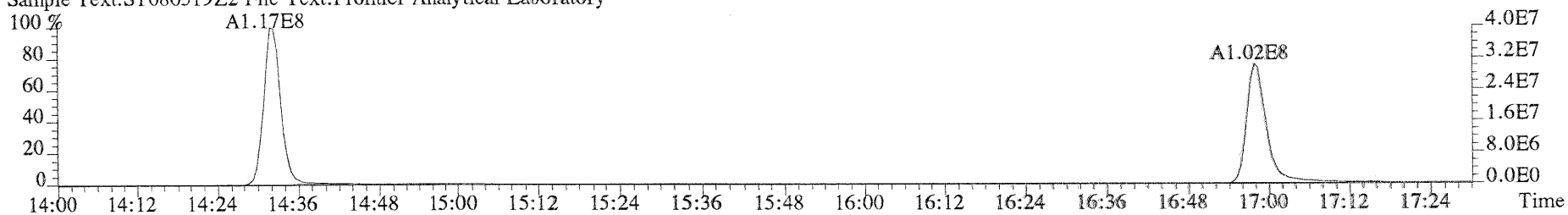
File:05AUG19Z #1-783 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



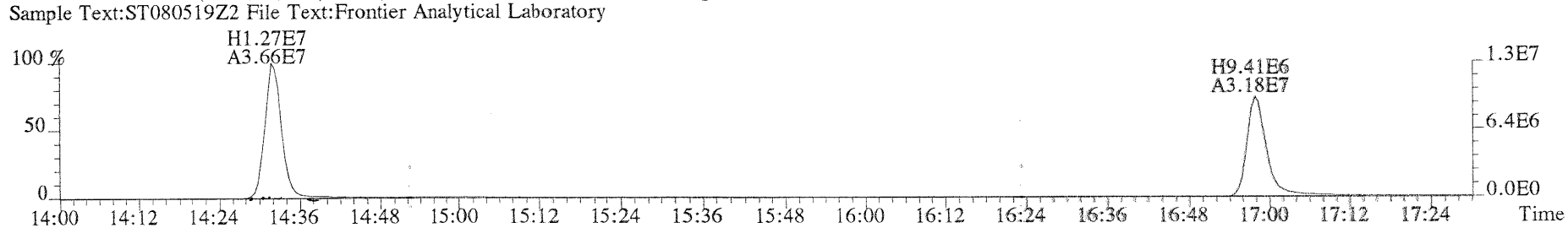
File:05AUG19Z #1-783 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



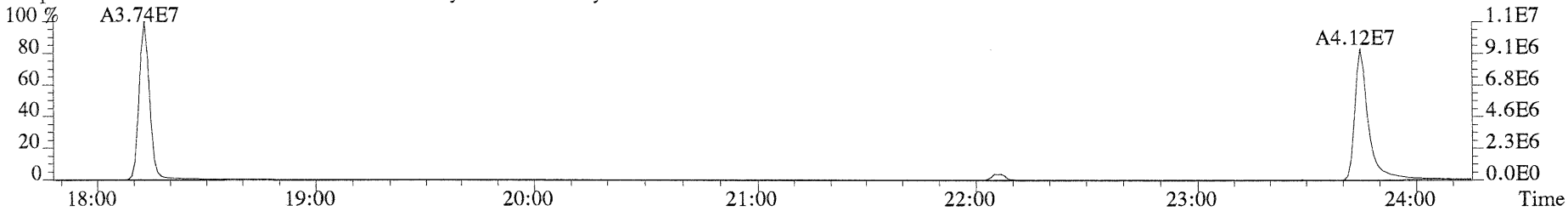
File:05AUG19Z #1-783 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-783 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-521 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



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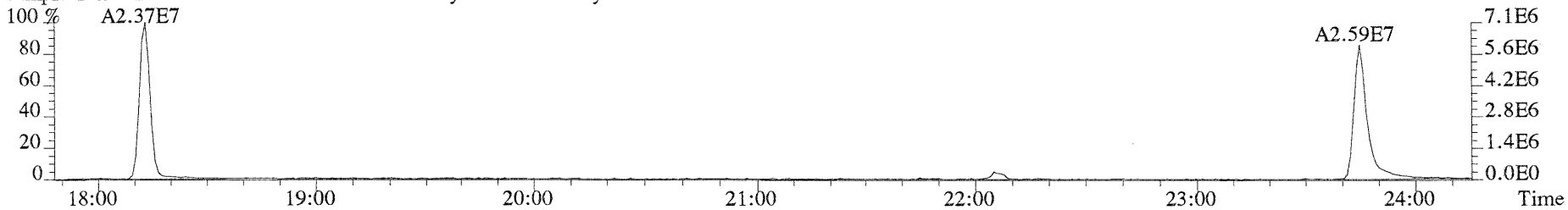
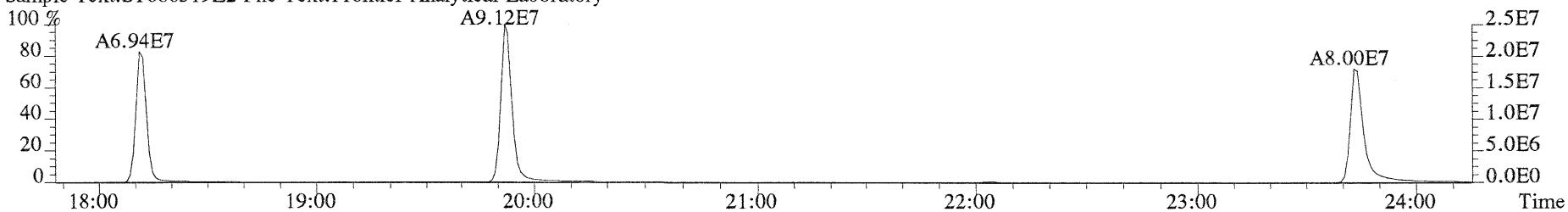
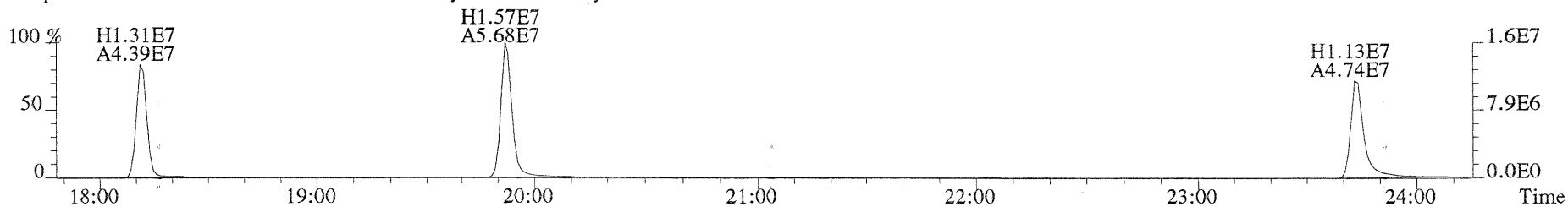
223.9975 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



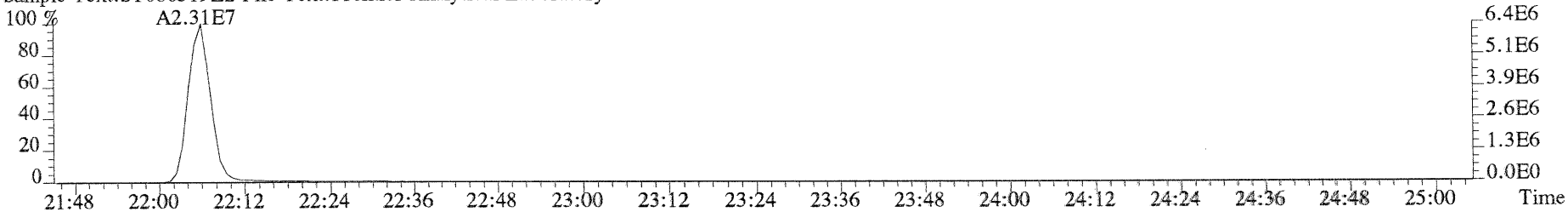
File:05AUG19Z #1-521 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



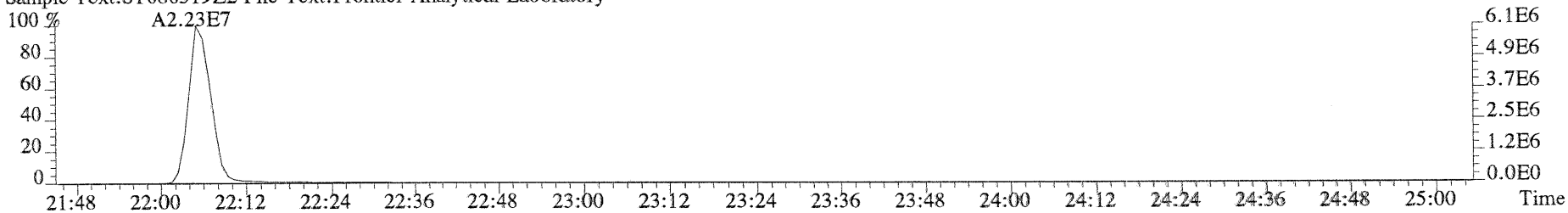
File:05AUG19Z #1-521 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



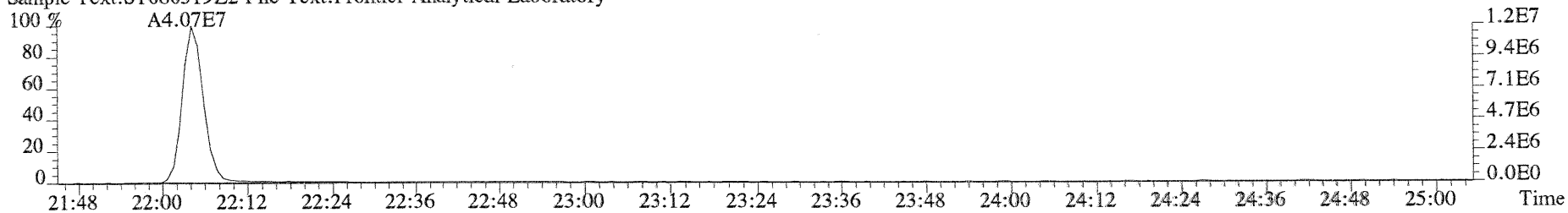
File:05AUG19Z #1-521 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



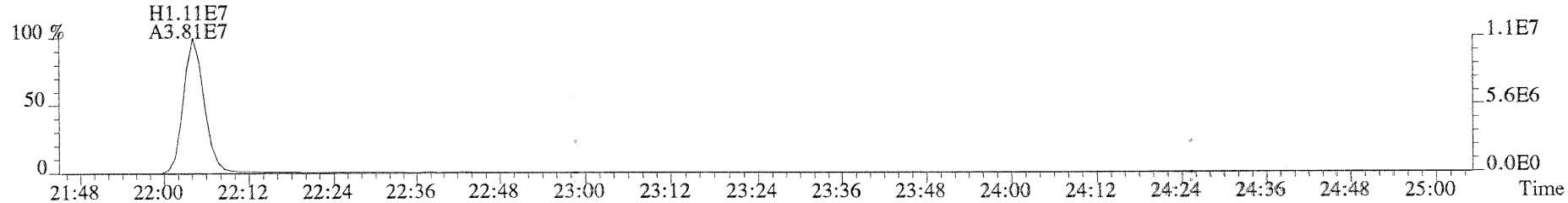
File:05AUG19Z #1-521 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100:0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



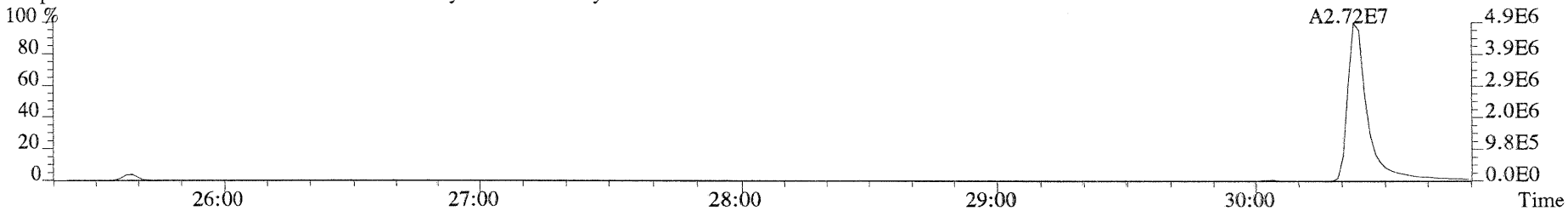
File:05AUG19Z #1-521 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



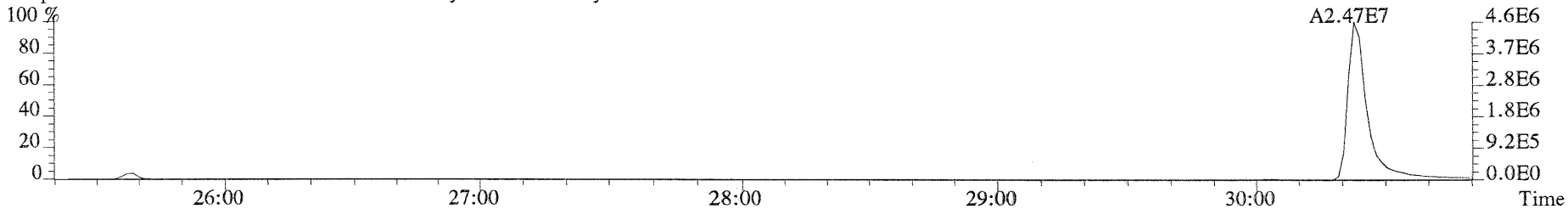
File:05AUG19Z #1-521 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



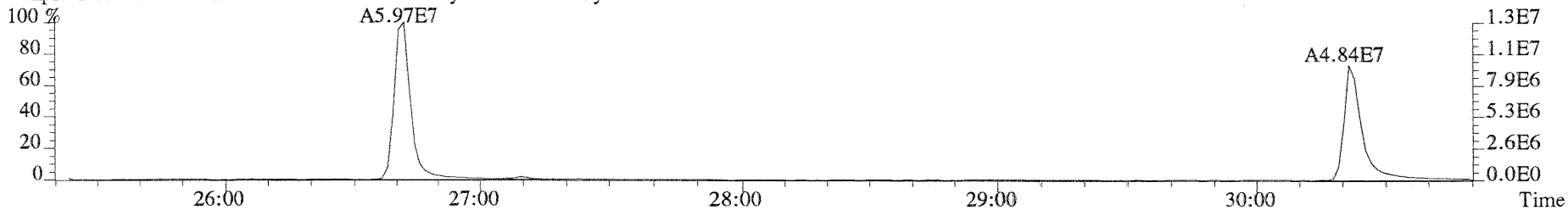
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



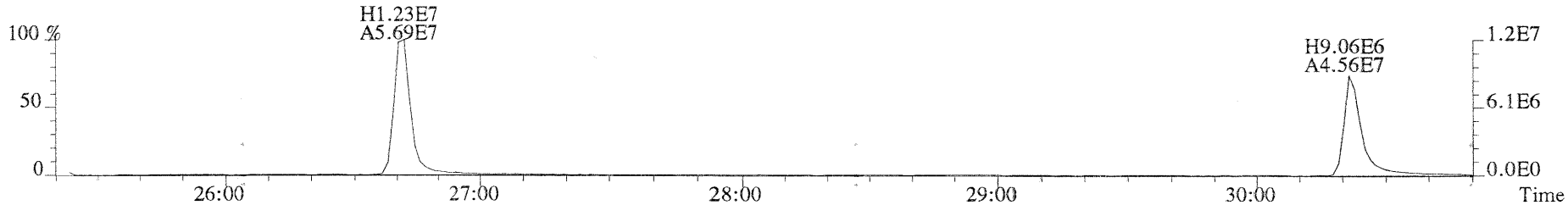
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



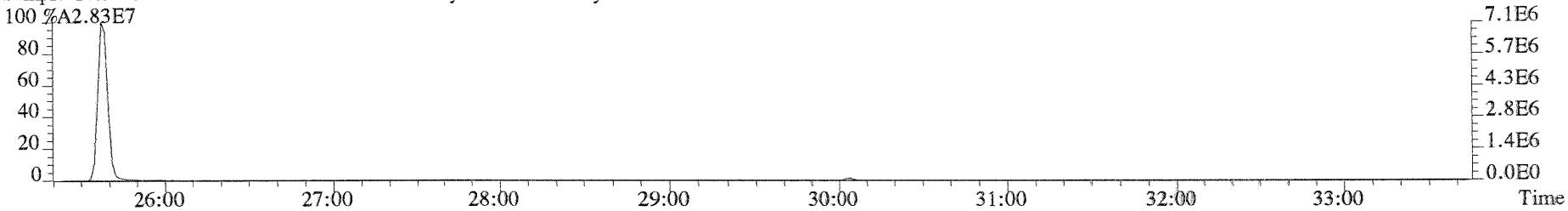
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



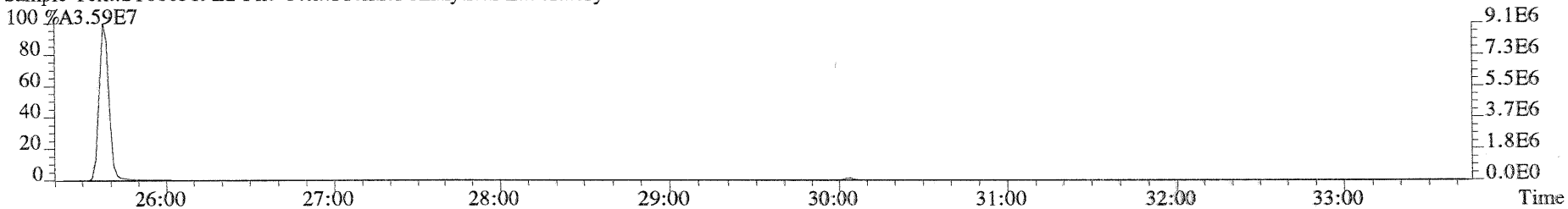
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



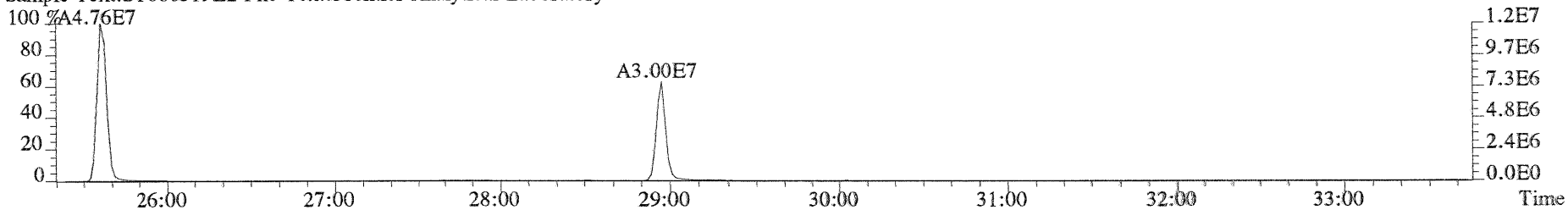
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



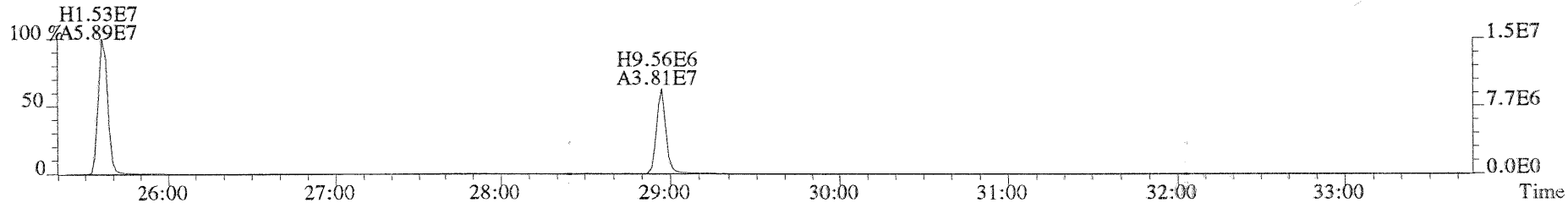
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



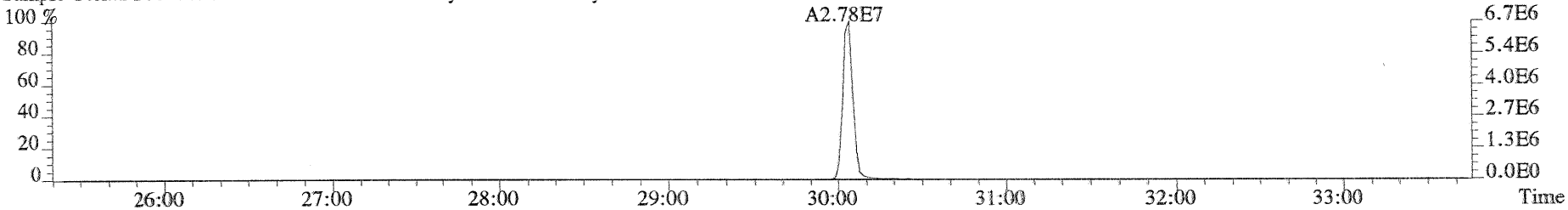
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



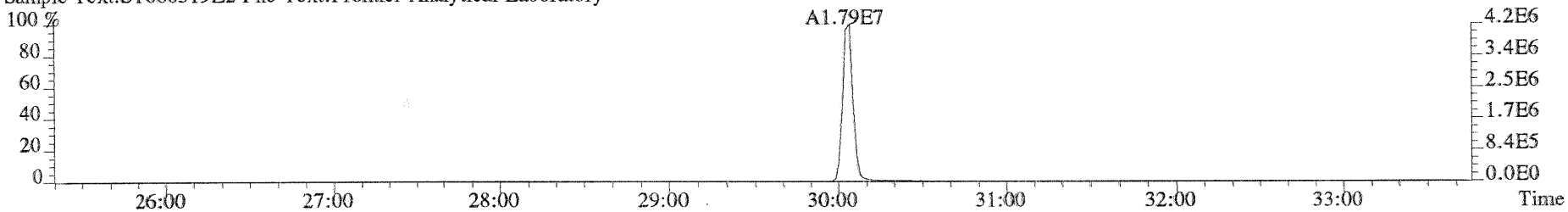
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



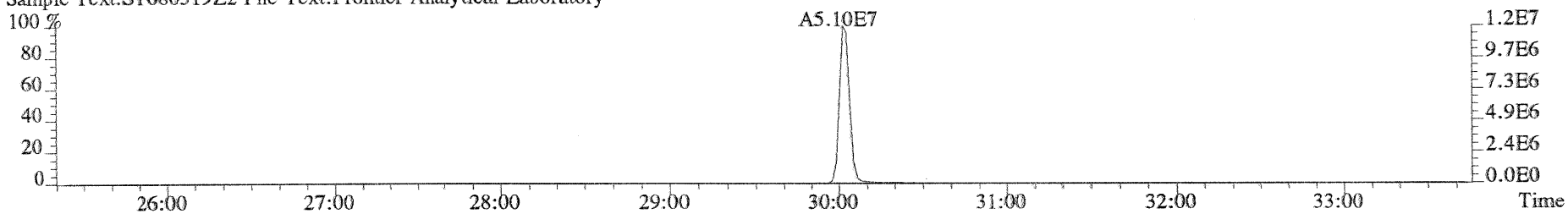
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



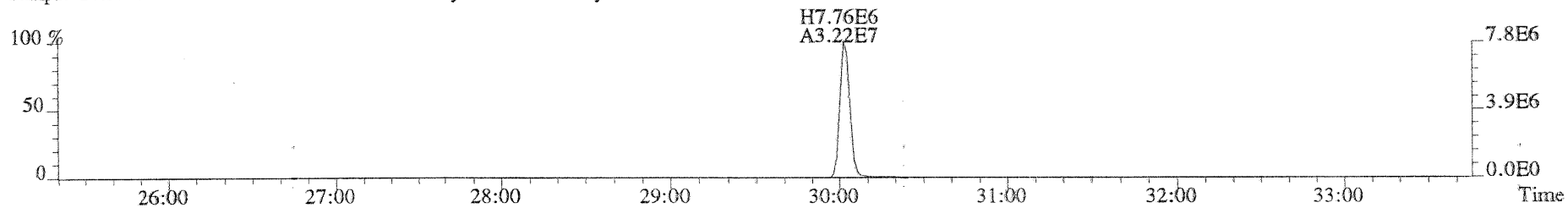
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



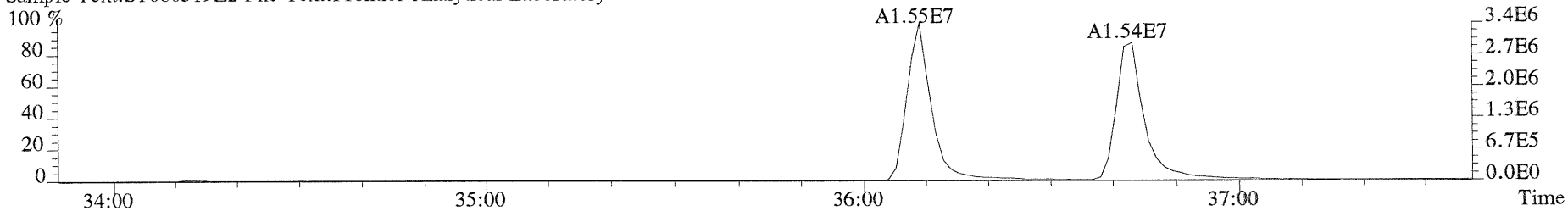
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



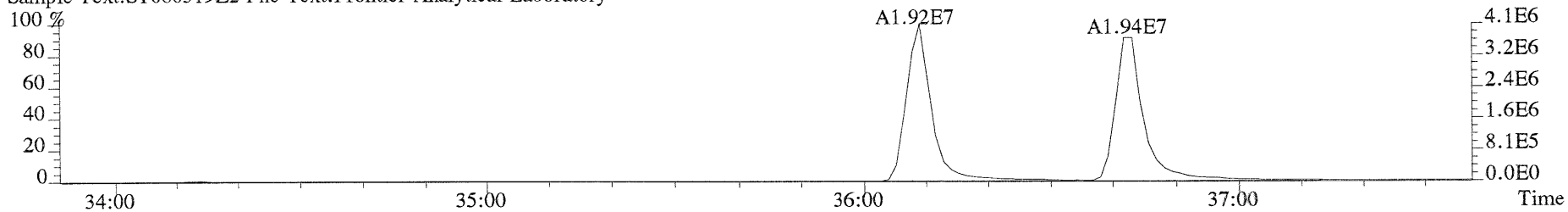
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



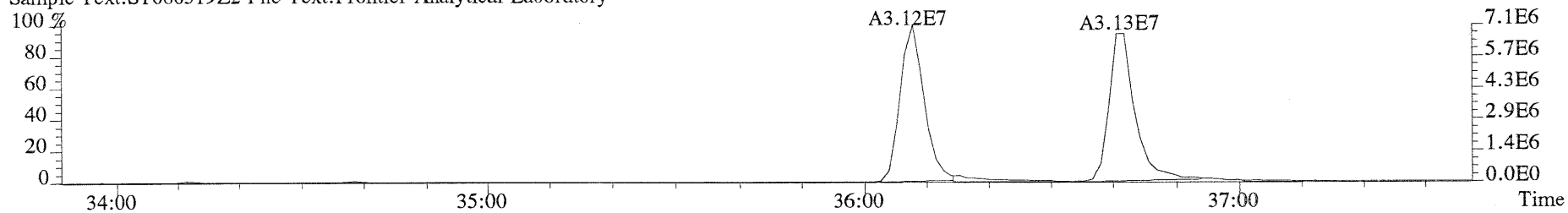
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



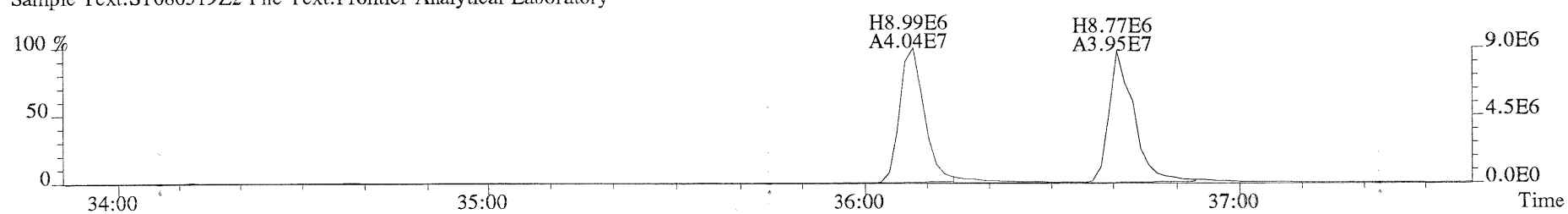
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



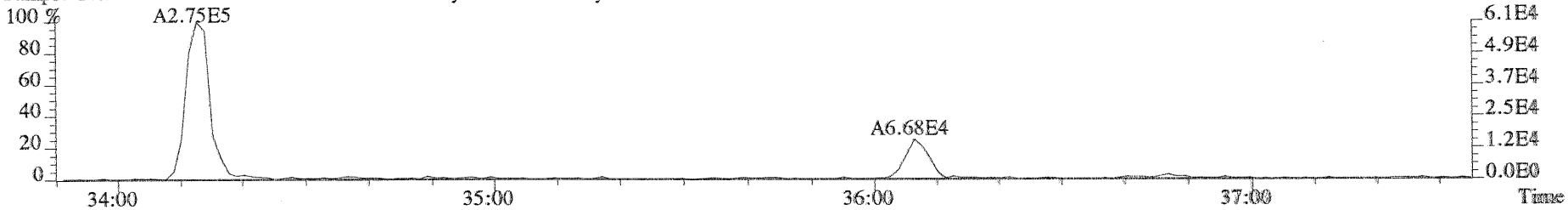
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



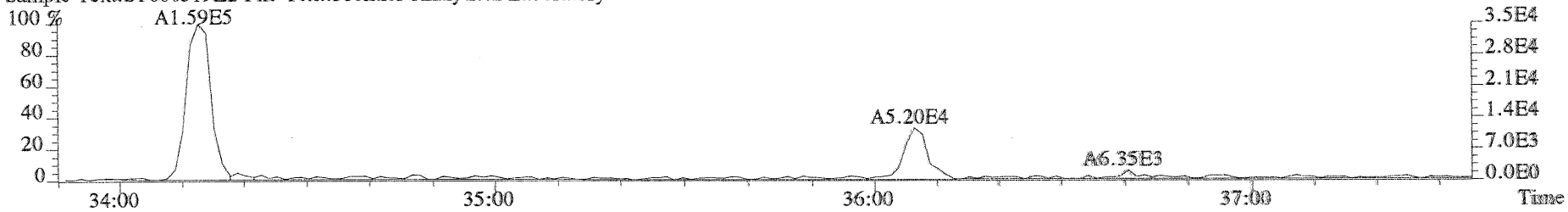
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



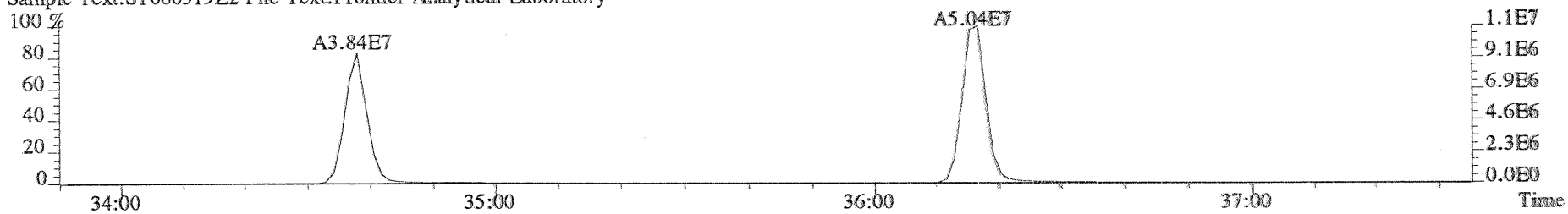
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



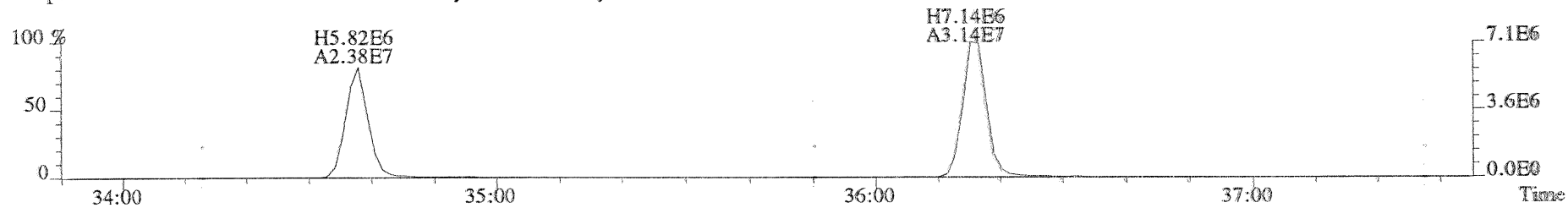
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



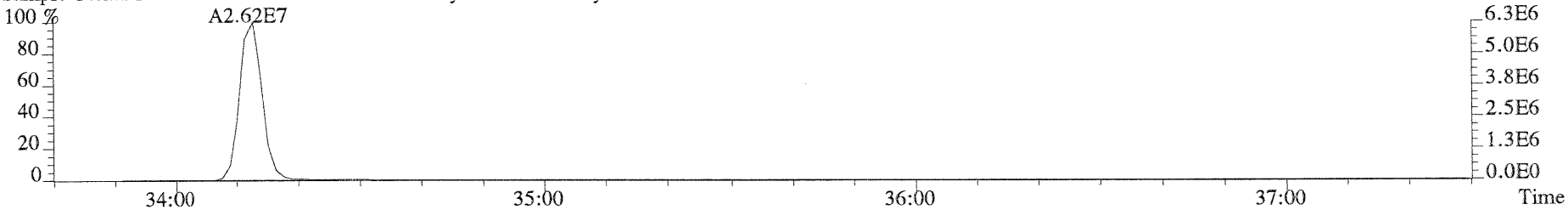
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



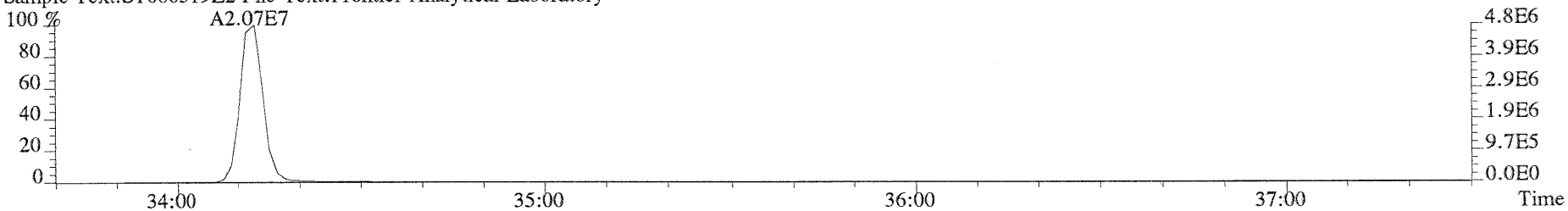
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



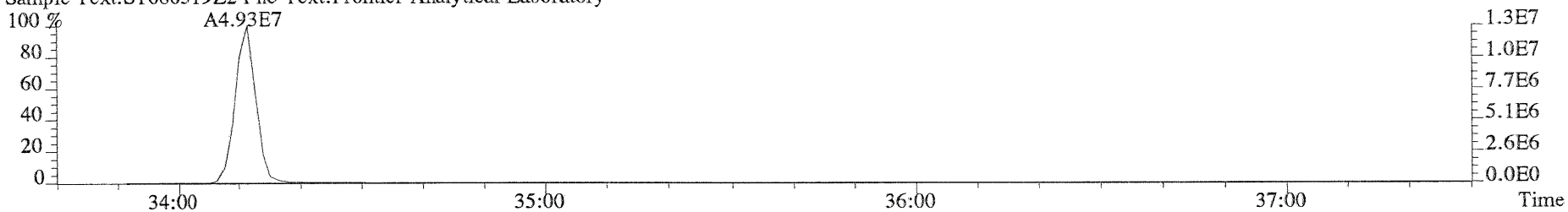
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



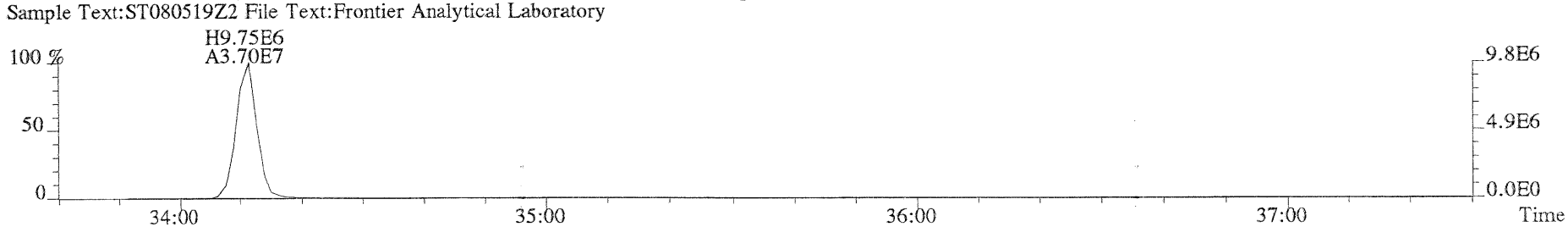
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



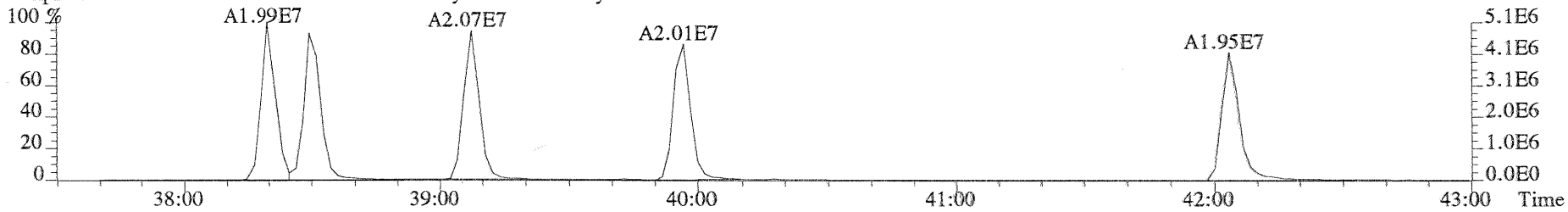
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



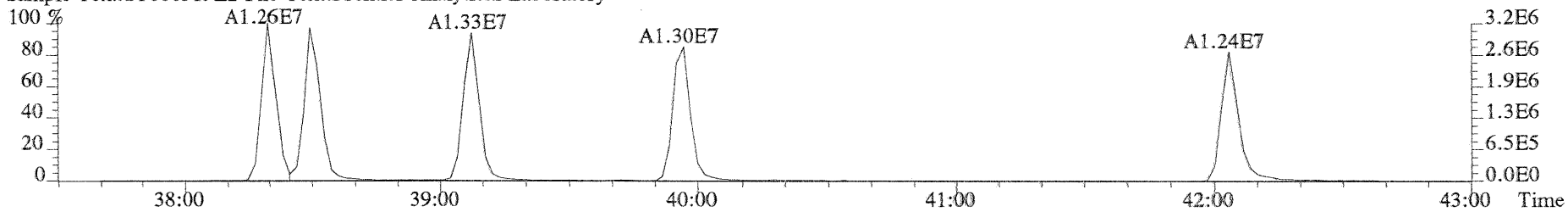
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



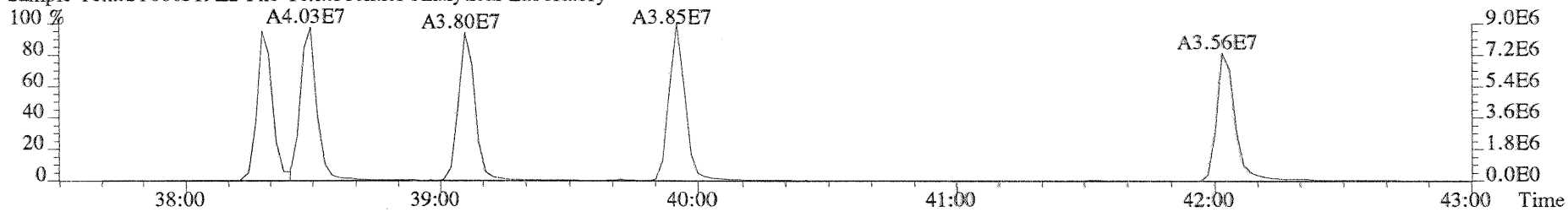
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



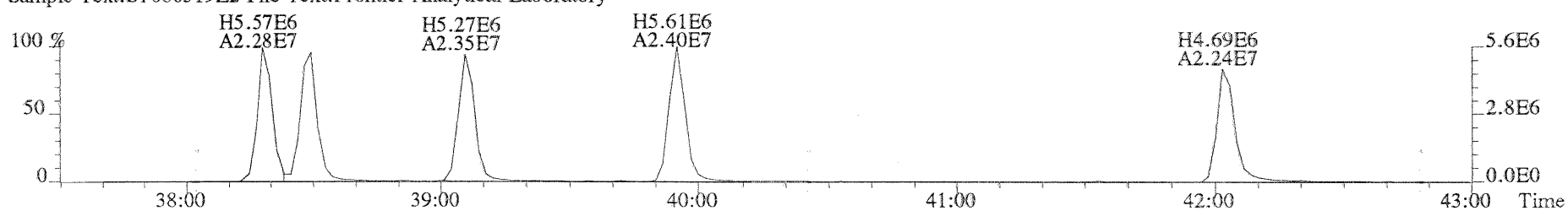
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



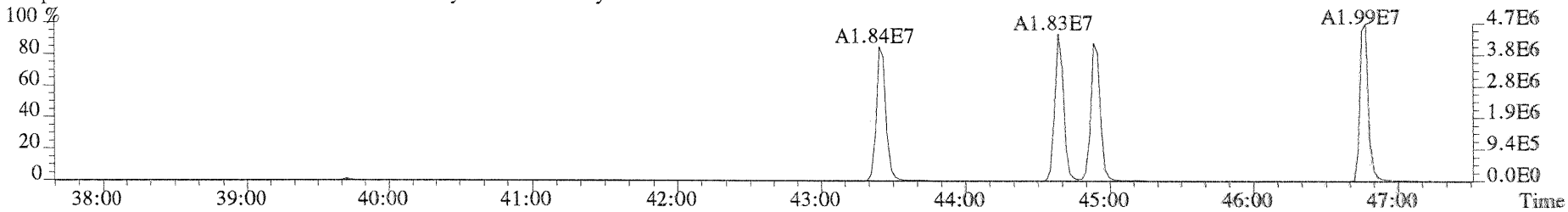
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



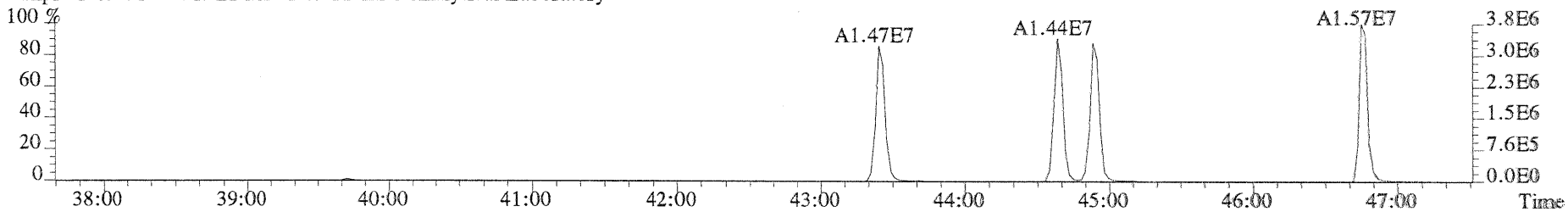
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



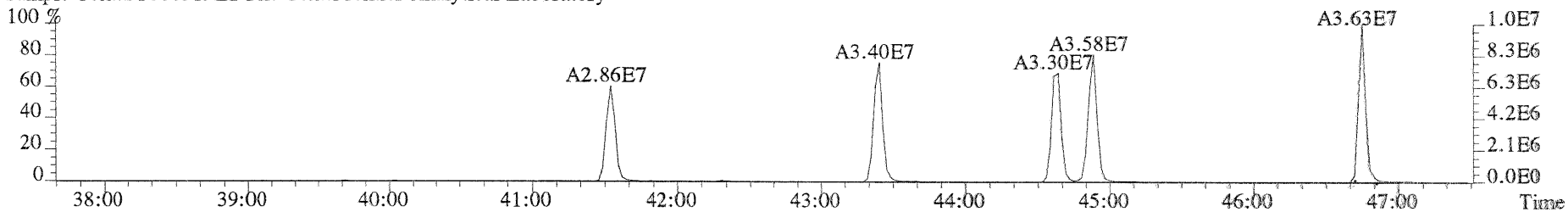
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



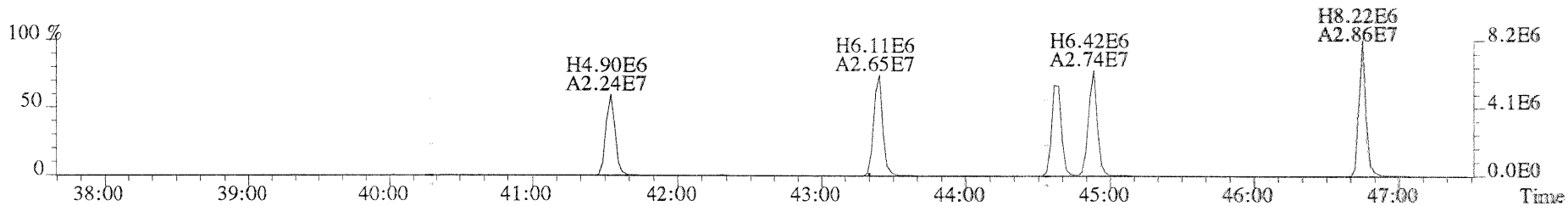
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



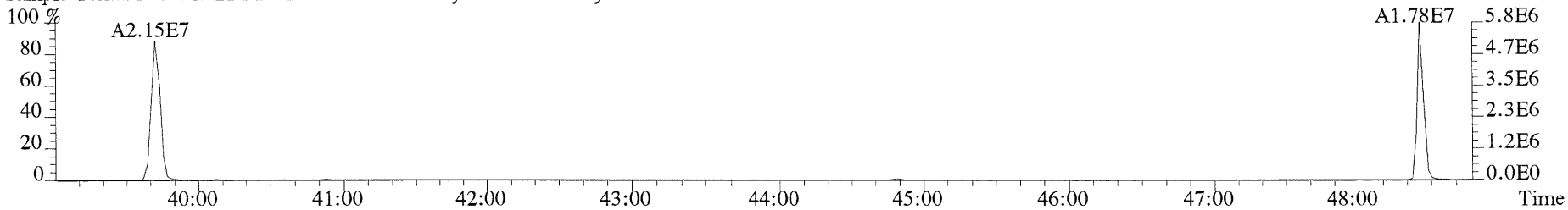
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



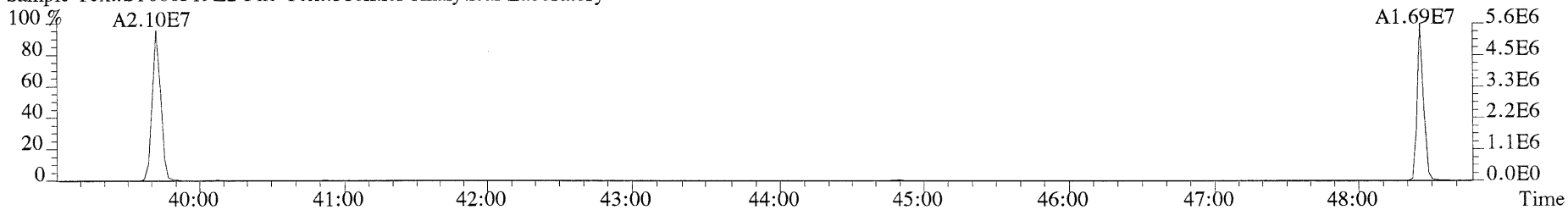
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



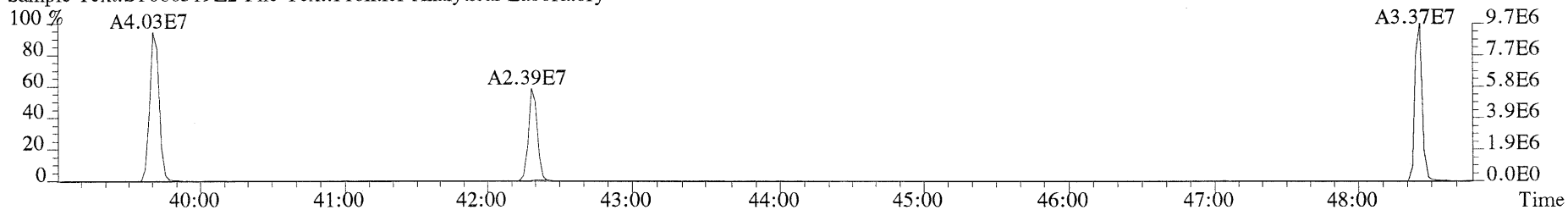
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



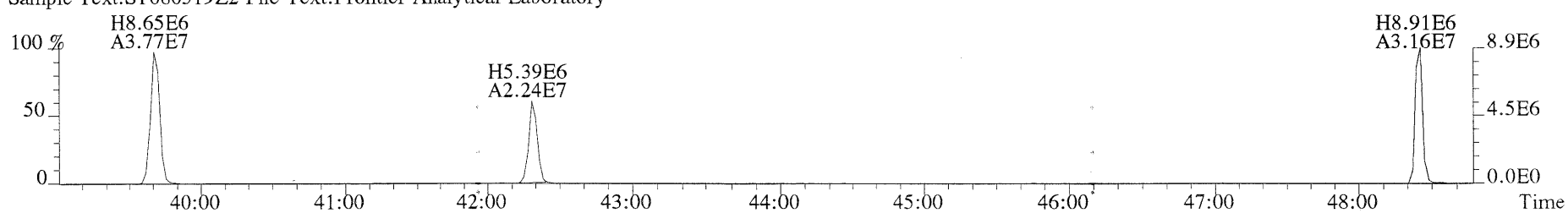
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



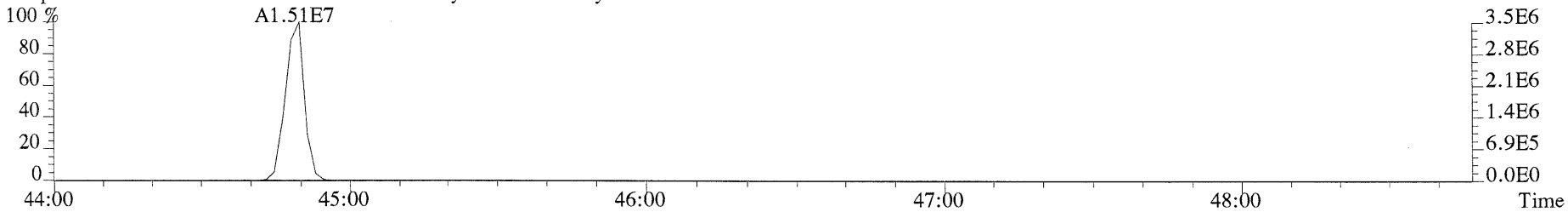
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



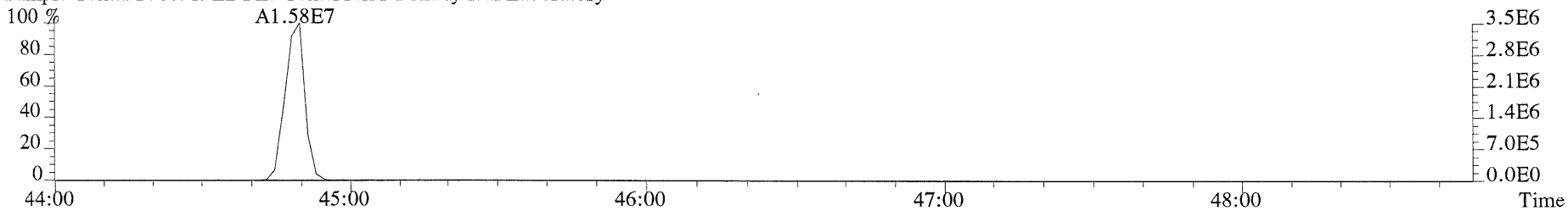
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



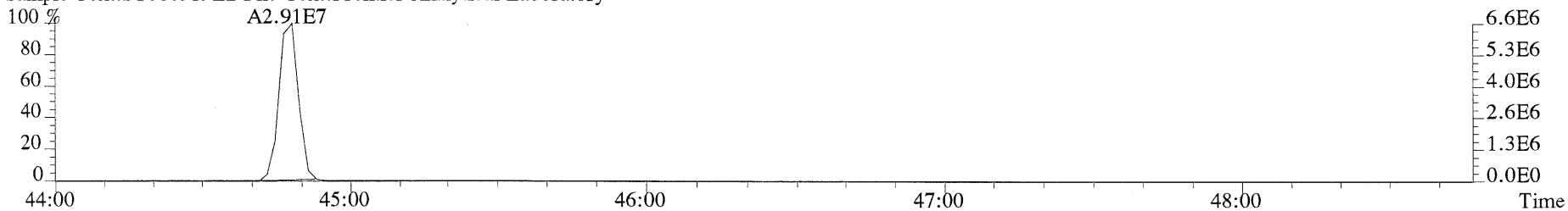
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



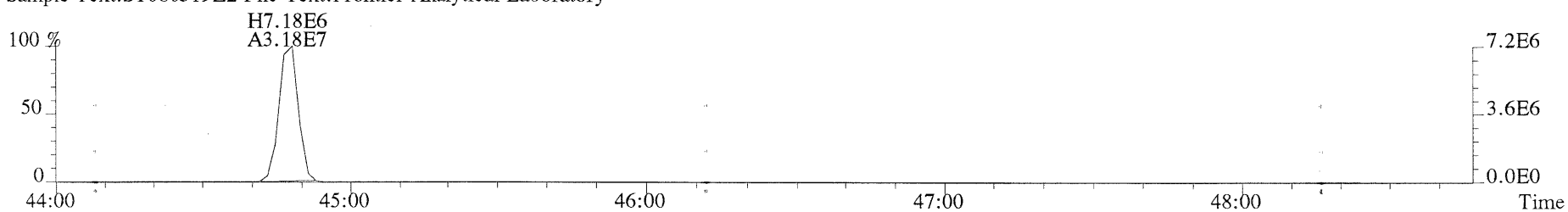
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



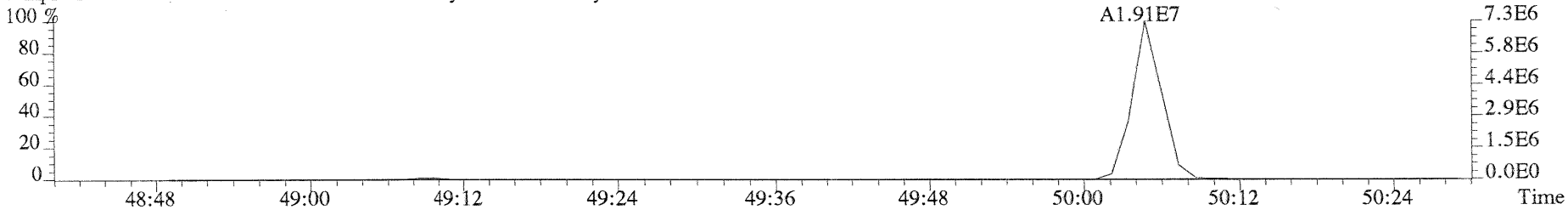
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



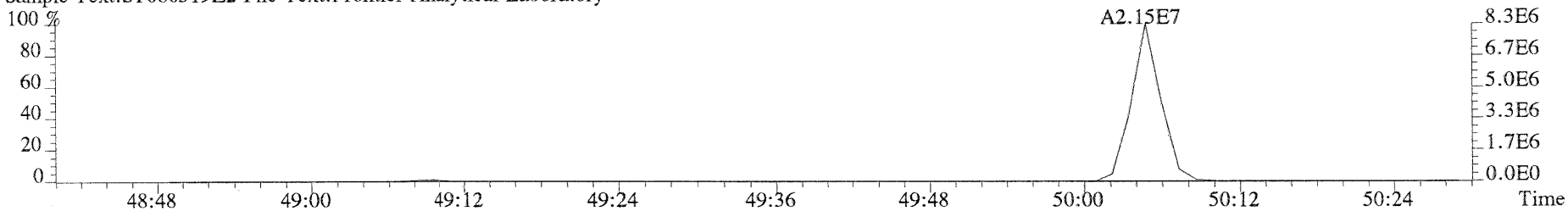
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



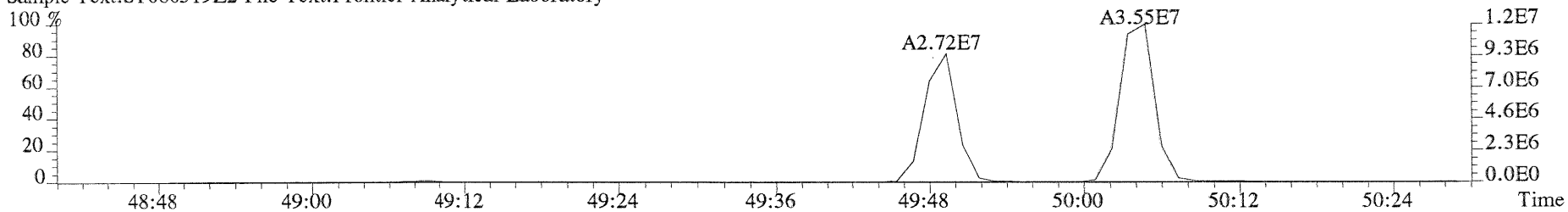
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



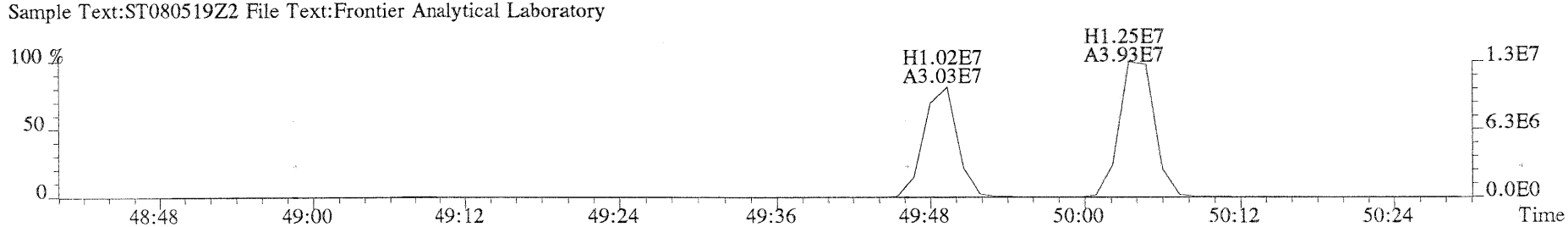
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



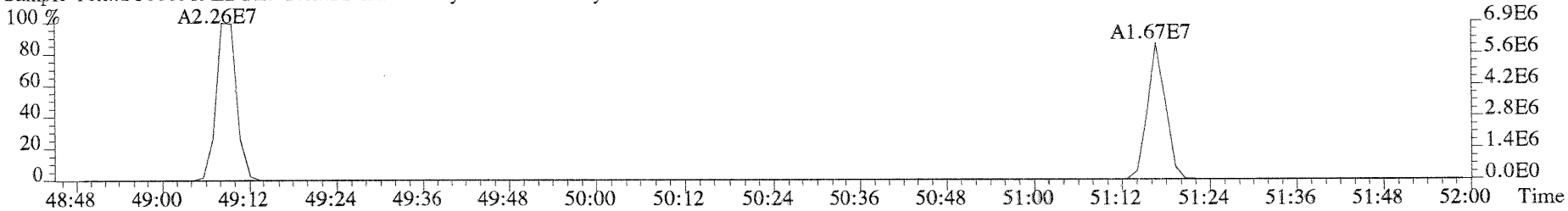
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



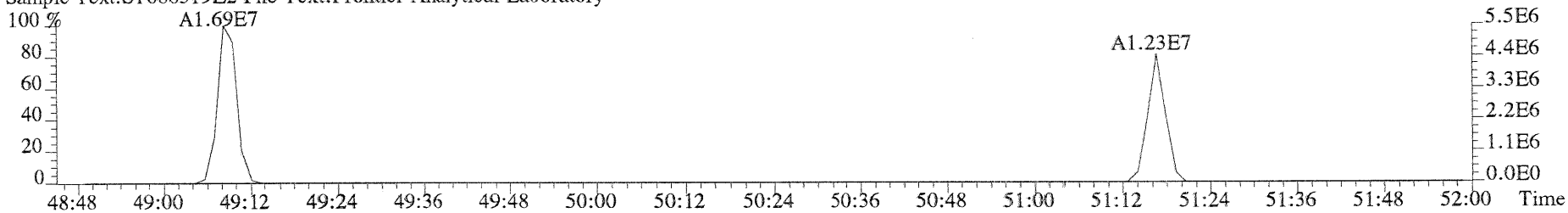
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



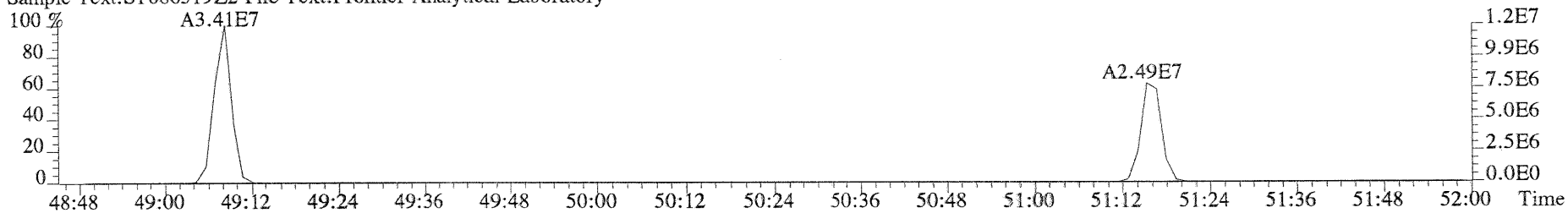
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



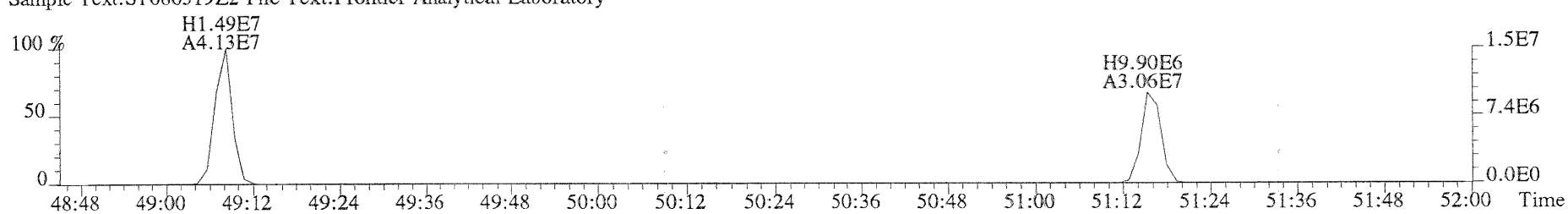
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



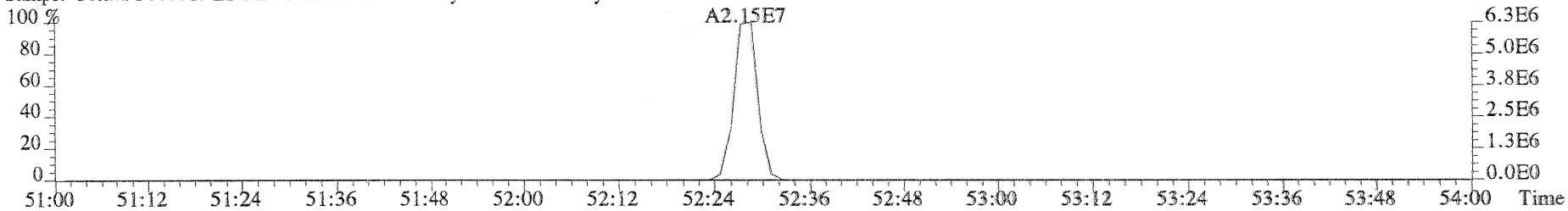
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



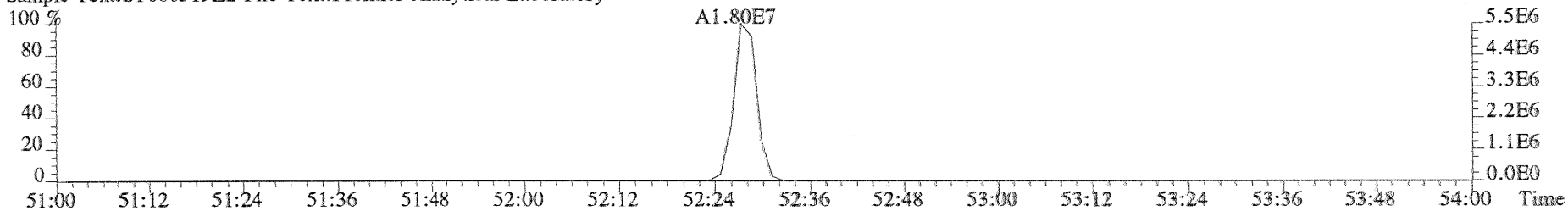
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



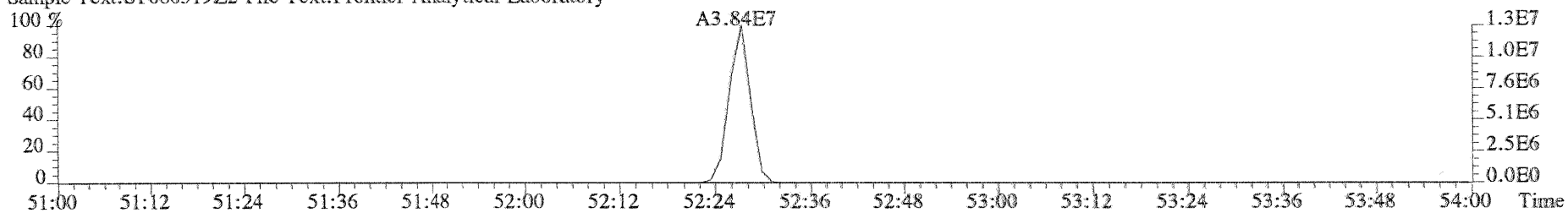
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



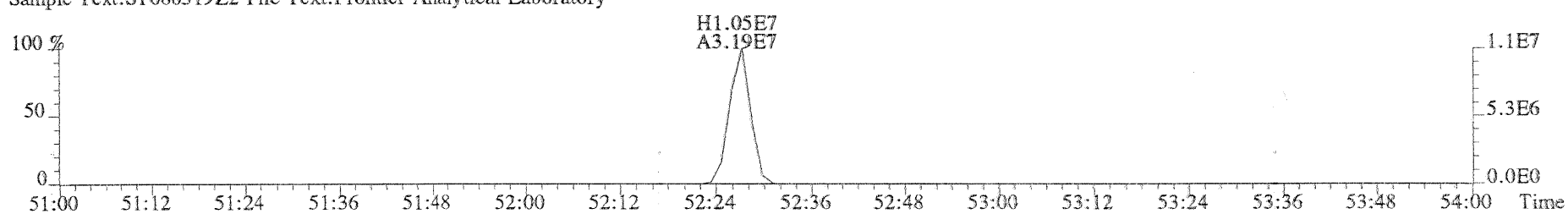
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%;F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



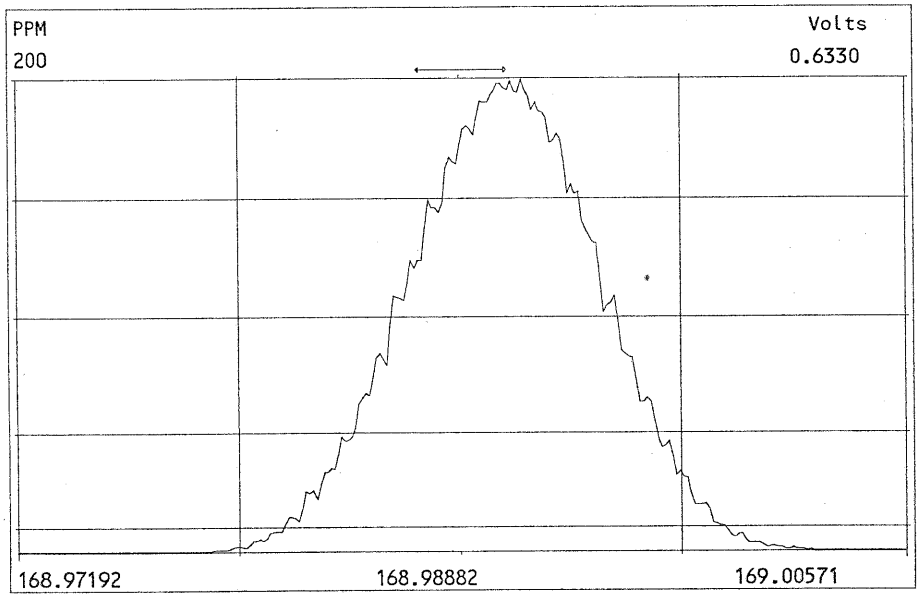
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory

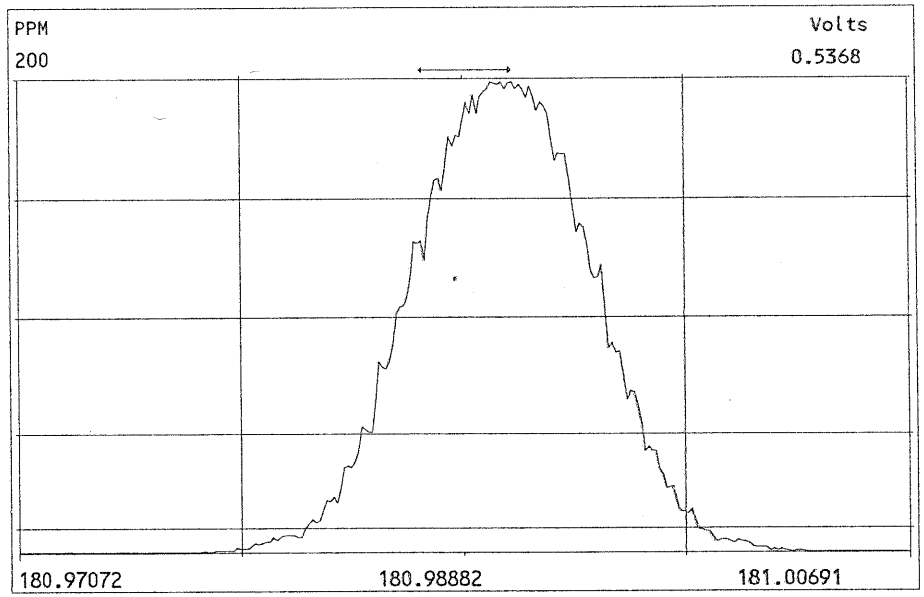


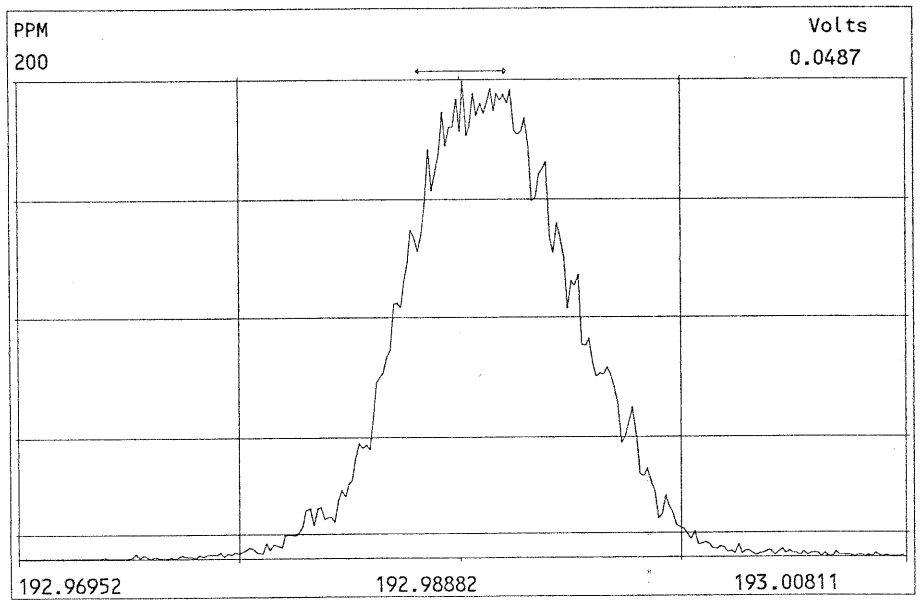
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory

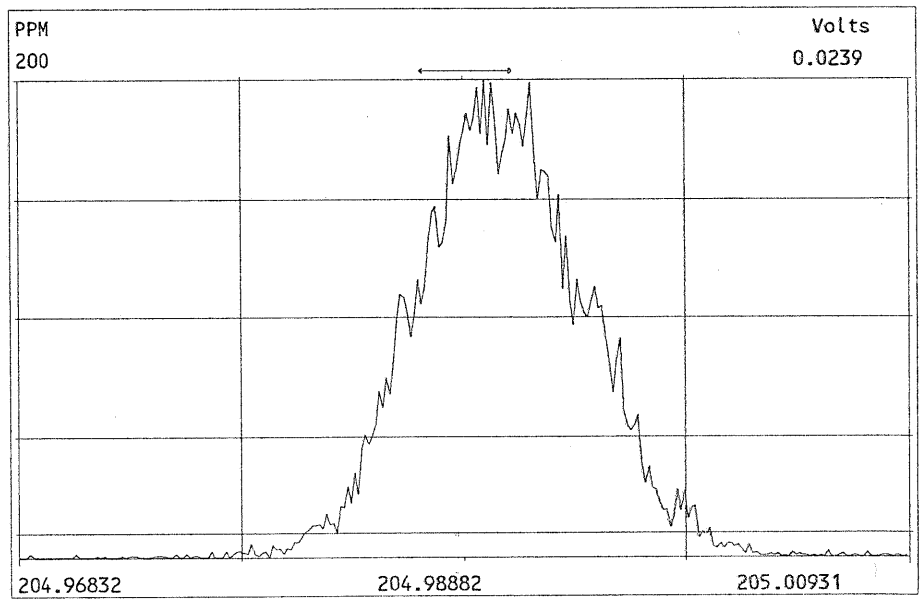


Peak Locate Examination: 6-AUG-2019:01:39 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

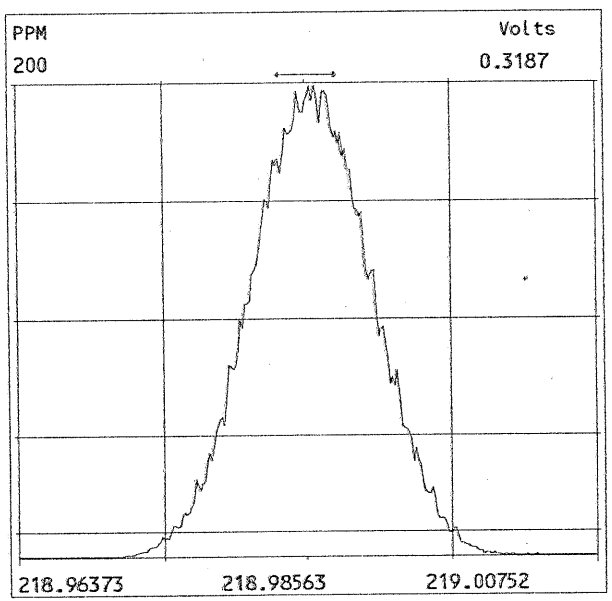


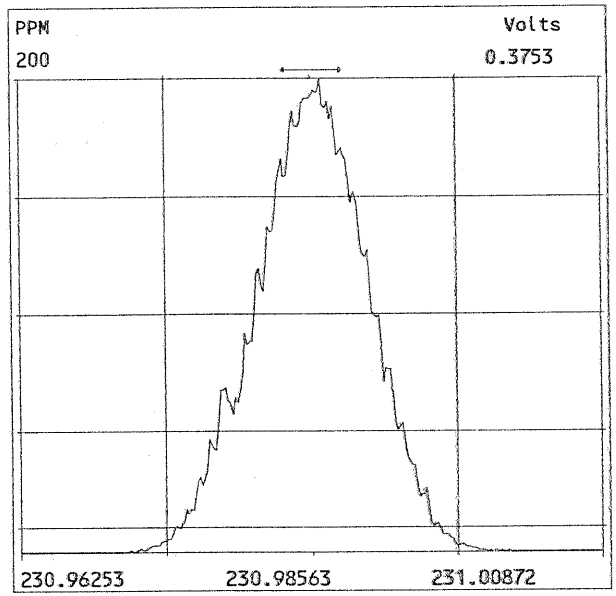


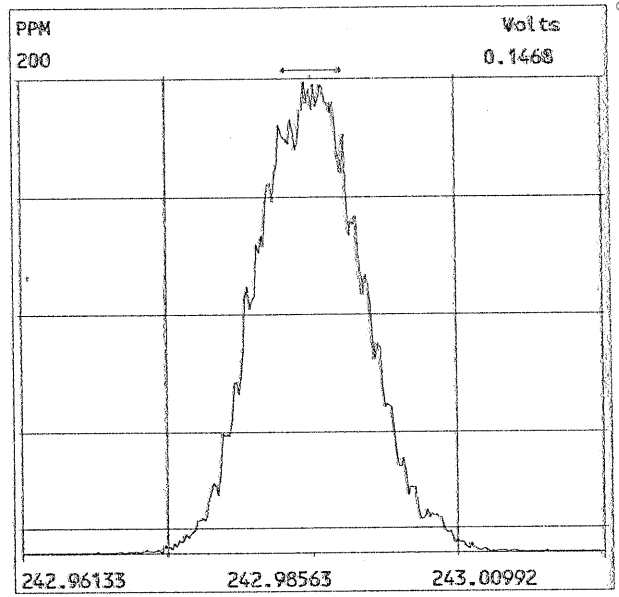


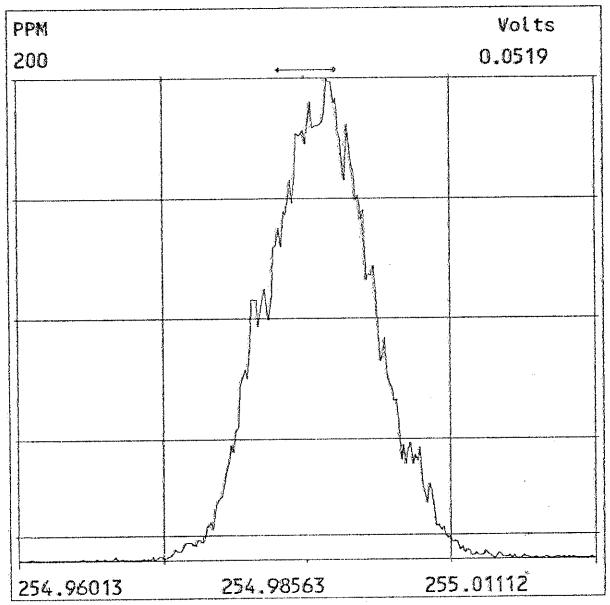


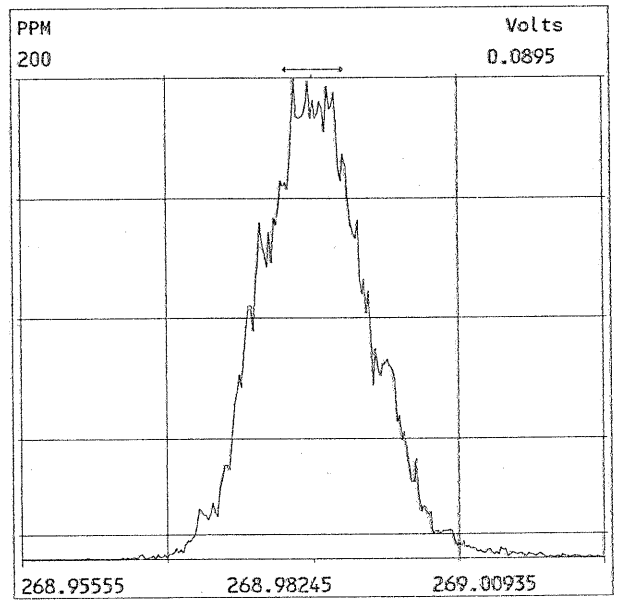
Peak Locate Examination: 6-AUG-2019:01:41 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

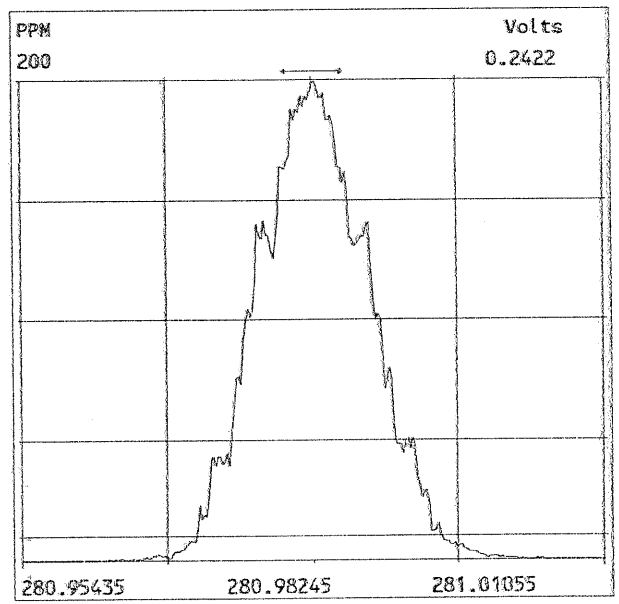




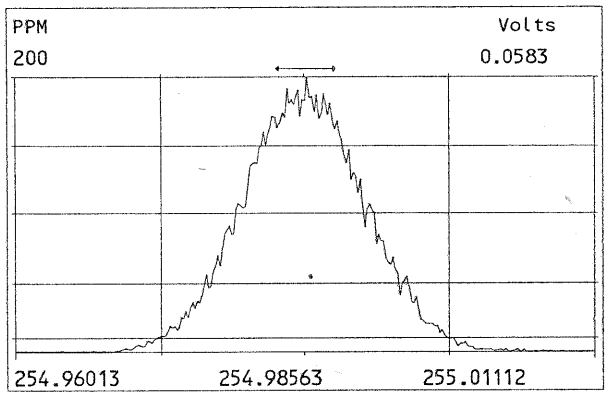


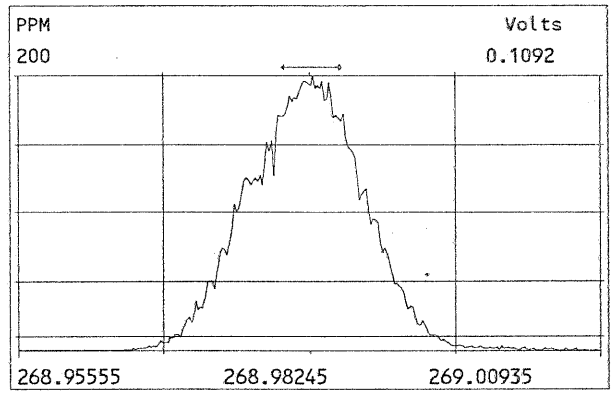


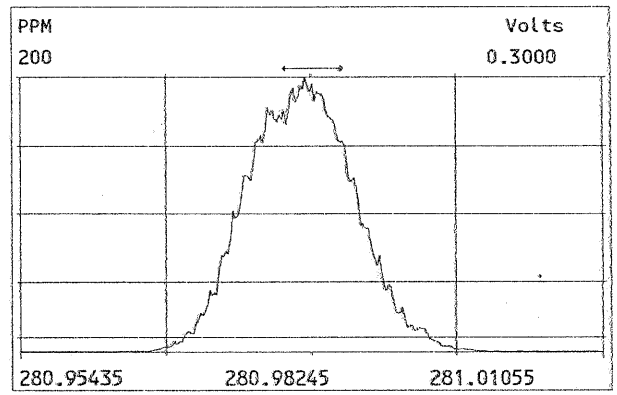


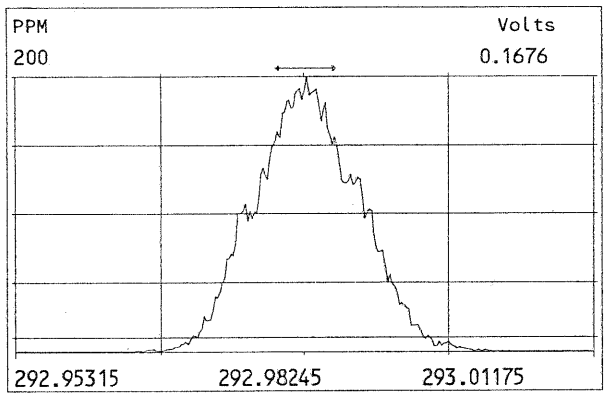


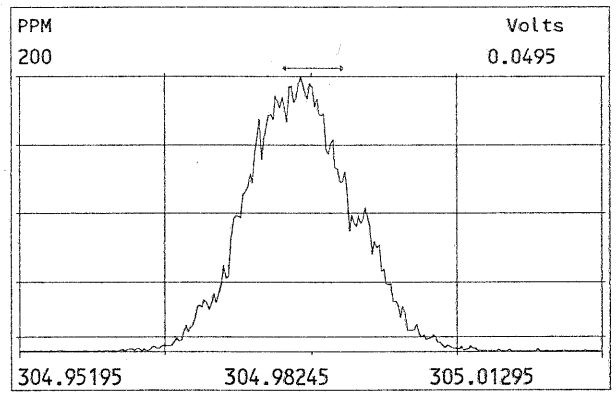
Peak Locate Examination: 6-AUG-2019:01:43 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

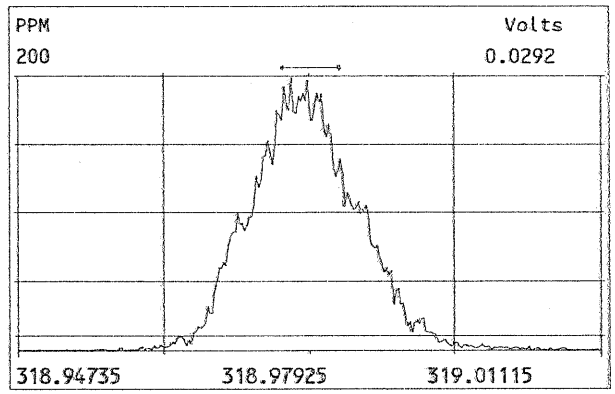


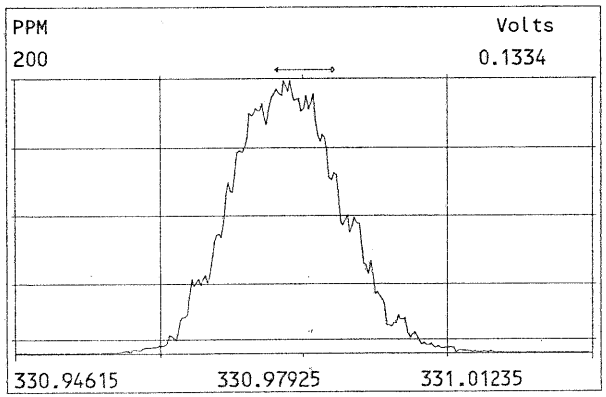


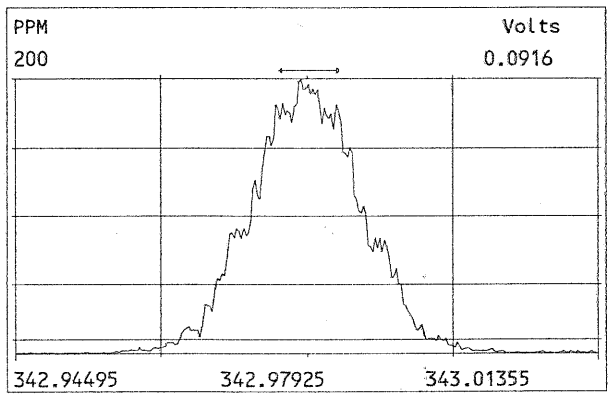




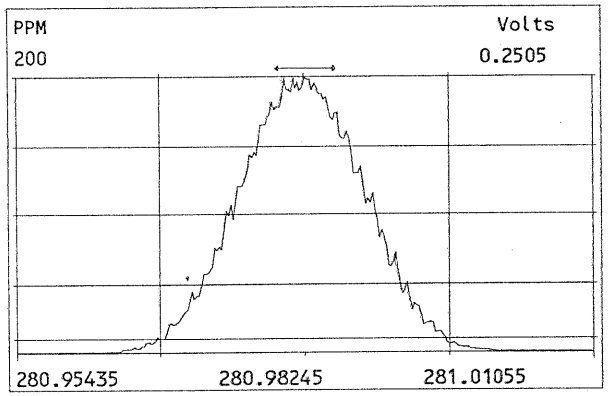


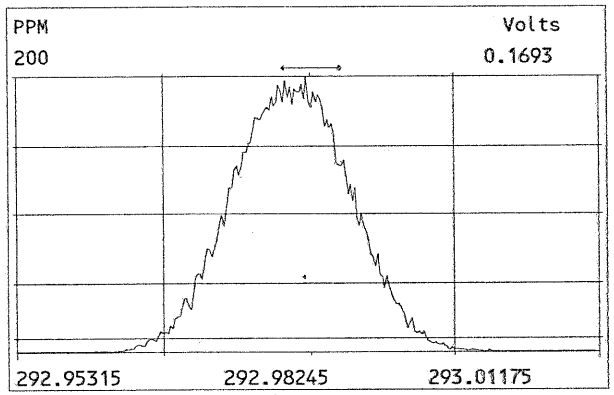


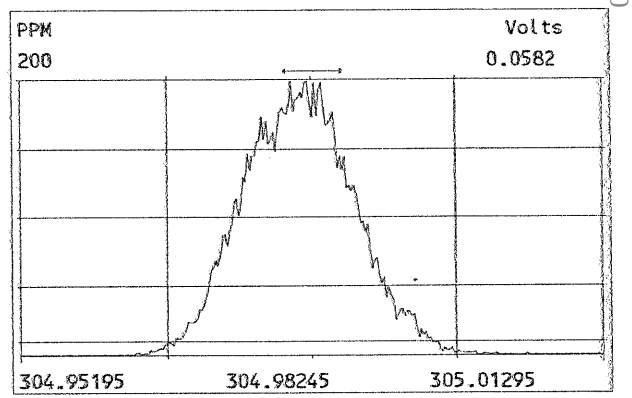


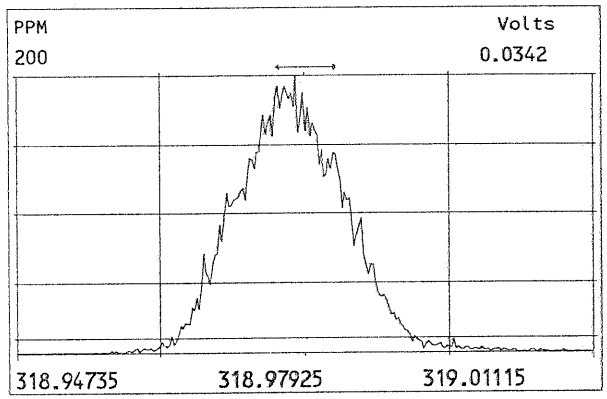


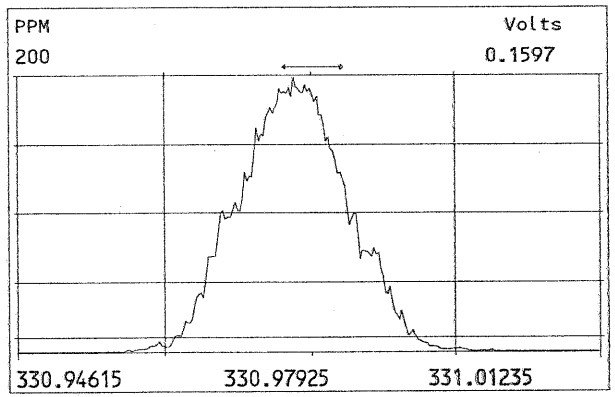
Peak Locate Examination: 6-AUG-2019:01:46 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

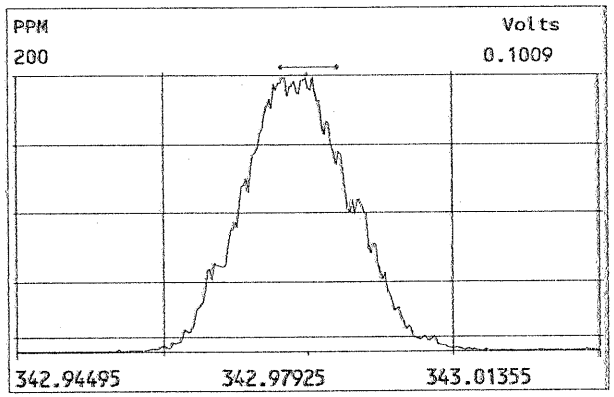


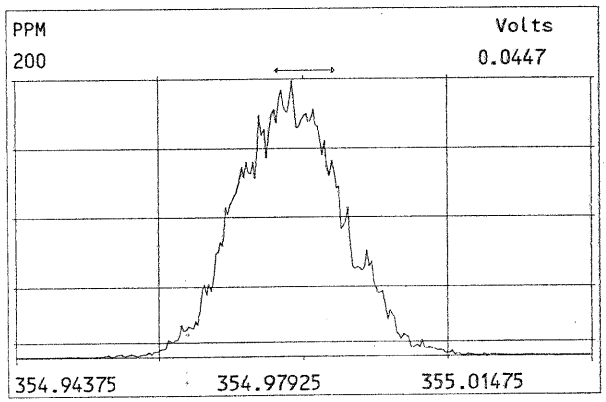


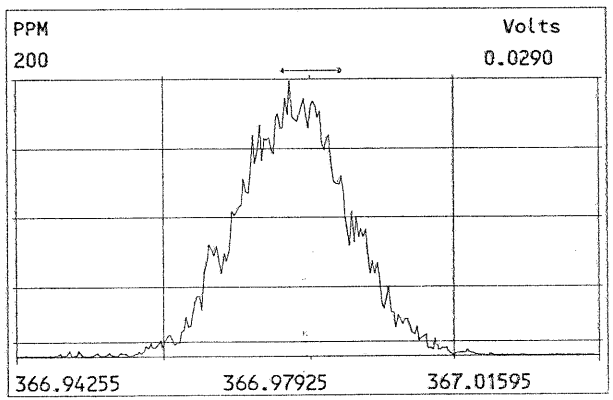


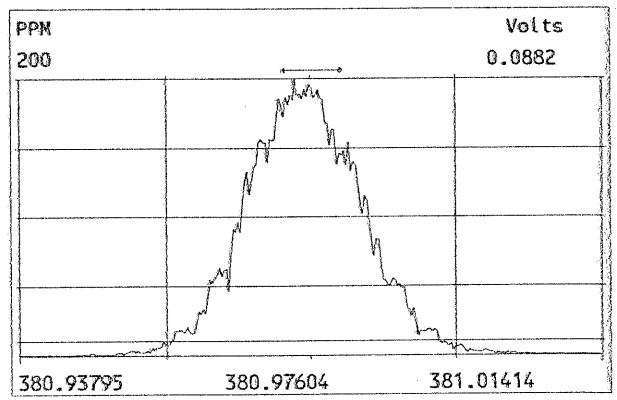




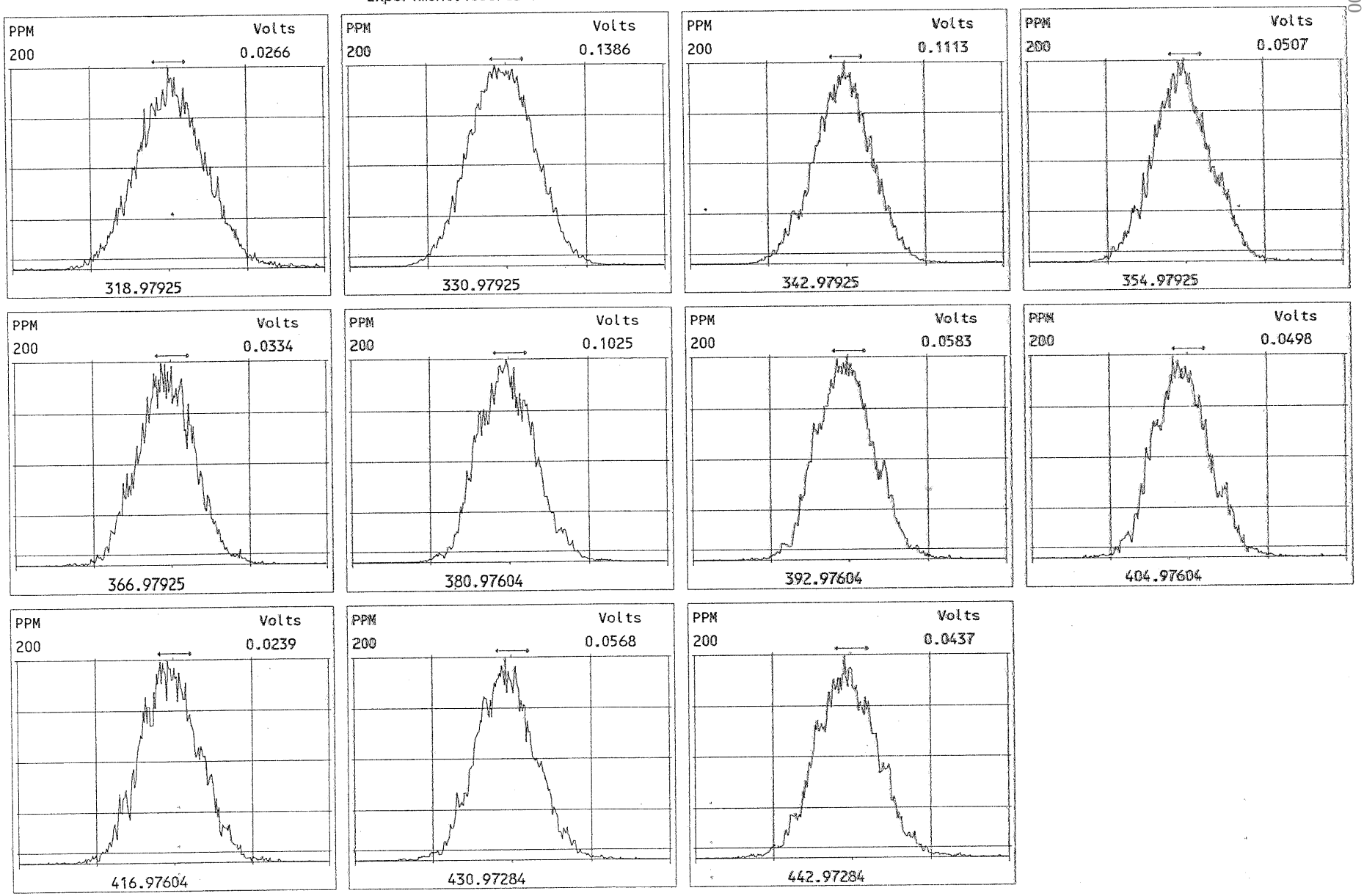




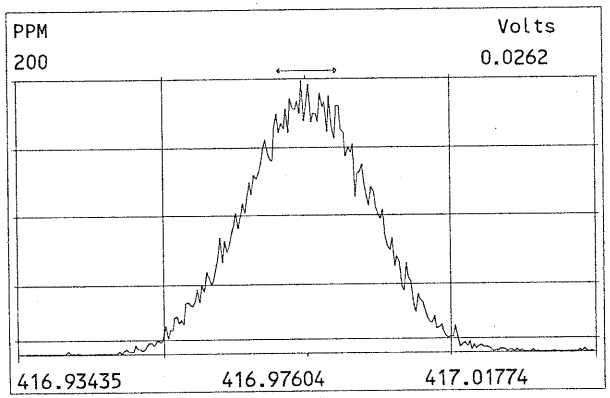


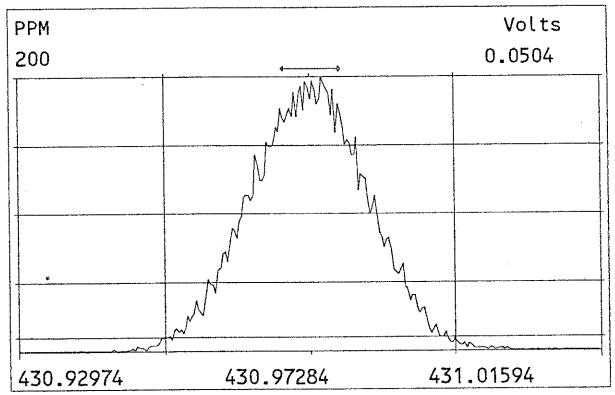


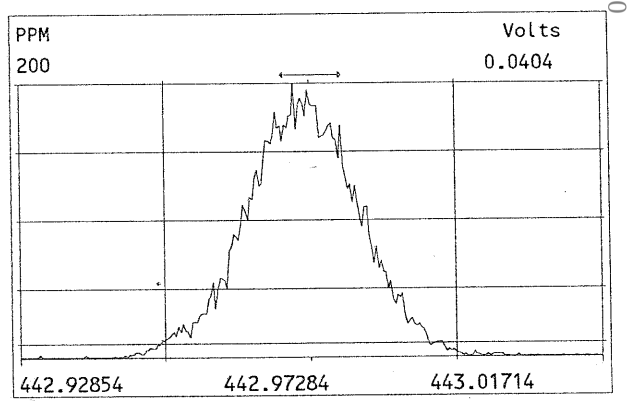
Peak Locate Examination: 6-AUG-2019:01:48 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

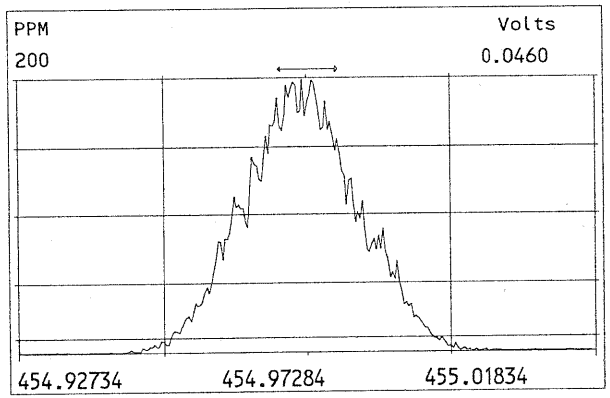


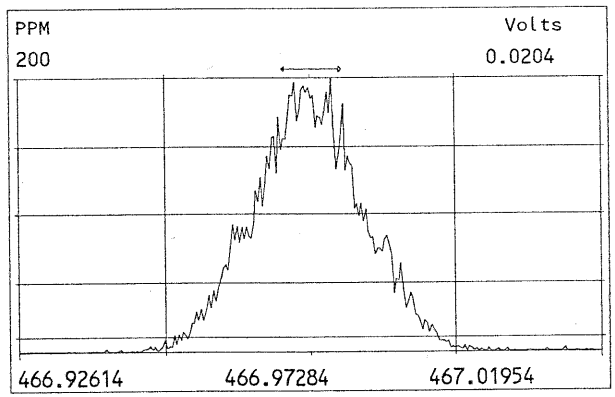
Peak Locate Examination: 6-AUG-2019:01:50 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

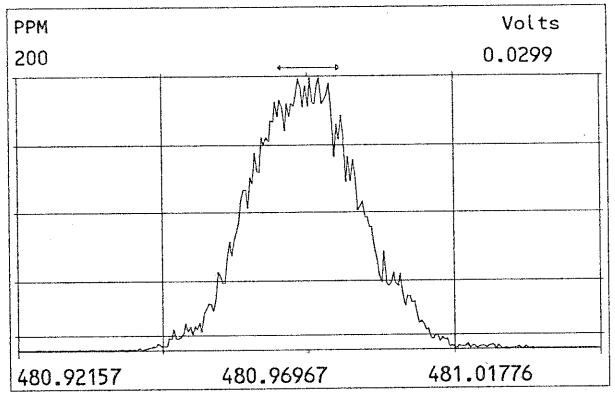


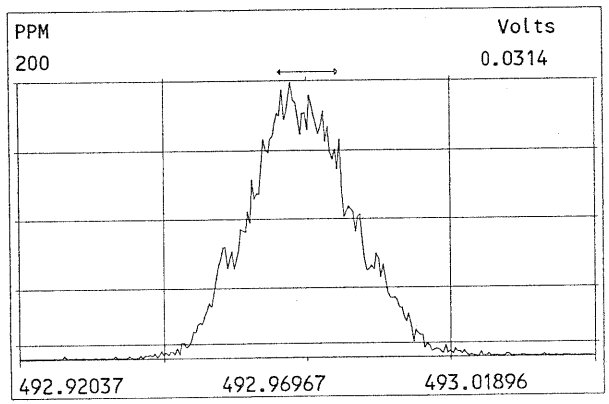


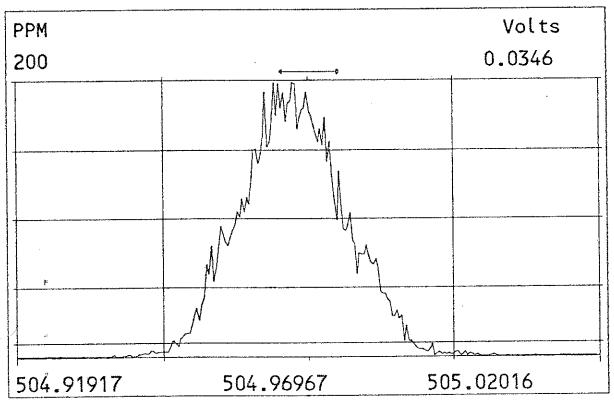


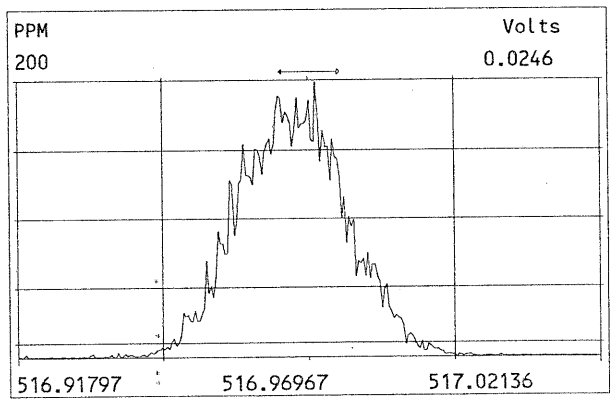












Frontier Analytical Laboratory

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: 06AUG19Z Sam:1 Analysis Date: 6-AUG-19 08:16:44

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	47.6	37.5 - 62.5
PCB-3	M/M+2	3.21	2.66-3.60	y	51.4	37.5 - 62.5
PCB-4	M/M+2	1.56	1.33-1.79	y	50.5	37.5 - 62.5
PCB-15	M/M+2	1.54	1.33-1.79	y	49.7	37.5 - 62.5
PCB-19	M/M+2	1.08	0.88-1.20	y	53.6	37.5 - 62.5
PCB-37	M/M+2	1.06	0.88-1.20	y	51.7	37.5 - 62.5
PCB-54	M/M+2	0.83	0.65-0.89	y	48.4	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	51.5	37.5 - 62.5
PCB-81	M/M+2	0.79	0.65-0.89	y	51.6	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	50.9	37.5 - 62.5
PCB-105	M+2/M+4	1.55	1.32-1.78	y	49.5	37.5 - 62.5
PCB-114	M+2/M+4	1.55	1.32-1.78	y	51.3	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	51.1	37.5 - 62.5
PCB-123	M+2/M+4	1.55	1.32-1.78	y	50.8	37.5 - 62.5
PCB-126	M+2/M+4	1.54	1.32-1.78	y	51.0	37.5 - 62.5
PCB-155	M+2/M+4	1.25	1.05-1.43	y	50.1	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	1.26	1.05-1.43	y	49.5	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	49.0	37.5 - 62.5
PCB-169	M+2/M+4	1.29	1.05-1.43	y	49.9	37.5 - 62.5
PCB-188	M+2/M+4	1.08	0.89-1.21	y	53.0	37.5 - 62.5
PCB-189	M+2/M+4	1.08	0.89-1.21	y	52.6	37.5 - 62.5
PCB-202	M+2/M+4	0.92	0.76-1.02	y	48.8	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	53.9	37.5 - 62.5
PCB-206	M+4/M+6	1.33	1.13-1.53	y	51.1	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	52.8	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	51.3	37.5 - 62.5

Analyst: [signature] Date: 8/6/19

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: 06AUG19Z Sam:1 Analysis Date: 6-AUG-19 08:16:44

	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	92.8	50.0 - 145
13C-PCB-3	M/M+2	3.24	2.66-3.60	y	91.7	50.0 - 145
13C-PCB-4	M/M+2	1.56	1.33-1.79	y	91.7	50.0 - 145
13C-PCB-15	M/M+2	1.58	1.33-1.79	y	97.6	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	94.4	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	91.7	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	90.2	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	92.6	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	94.6	50.0 - 145
13C-PCB-104	M+2/M+4	1.58	1.32-1.78	y	91.5	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	94.4	50.0 - 145
13C-PCB-114	M+2/M+4	1.60	1.32-1.78	y	94.9	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	95.8	50.0 - 145
13C-PCB-123	M+2/M+4	1.56	1.32-1.78	y	94.0	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	89.9	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	96.4	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	96.3	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	91.1	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	96.8	50.0 - 145
13C-PCB-169	M+2/M+4	1.30	1.05-1.43	y	89.0	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	89.7	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	94.1	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	99.1	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	94.0	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	99.1	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	103	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	103	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	99.2	65.0 - 135
13C-PCB-111	M+2/M+4	1.62	1.32-1.78	y	100	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	99.3	75.0 - 125

Analyst: _____ Date: 8/6/19

FAL ID: ST080619Z1 Filename: 06AUG19Z Sam:1 Acquired: 6-AUG-19 08:16:44 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 06AUG19Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	8.37e+07	3.13 y	14:34	1.19	47.6		2.50	-	-	*	-
13C-PCB-1	1.47e+08	3.24 y	14:33	1.02	92.8		2.50				92.8
PCB-3	8.34e+07	3.21 y	16:59	1.18	51.4		2.50	-	-	*	-
13C-PCB-3	1.38e+08	3.24 y	16:58	0.97	91.7		2.50				91.7
PCB-4	5.55e+07	1.56 y	18:13	1.04	50.5		2.50	-	-	*	-
13C-PCB-4	1.05e+08	1.56 y	18:11	0.74	91.7		2.50				91.7
PCB-15	7.49e+07	1.54 y	23:44	1.03	49.7		2.50	-	-	*	-
13C-PCB-15	1.46e+08	1.58 y	23:43	0.96	97.6		2.50				97.6
PCB-19	4.59e+07	1.08 y	22:06	1.11	53.6		2.50	-	-	*	-
13C-PCB-19	7.71e+07	1.08 y	22:04	0.53	94.4		2.50				94.4
13C-PCB-9	1.56e+08	1.61 y	19:52	-	201		2.50				
PCB-37	5.70e+07	1.06 y	30:24	1.04	51.7		2.50	-	-	*	-
13C-PCB-37	1.06e+08	1.06 y	30:22	1.57	91.7		2.50				91.7
PCB-54	5.20e+07	0.83 y	25:38	1.16	48.4		2.50	-	-	*	-
13C-PCB-54	9.23e+07	0.82 y	25:37	1.38	90.2		2.50				90.2
PCB-104	4.12e+07	1.59 y	30:05	1.08	50.9		2.50	-	-	*	-
13C-PCB-104	7.49e+07	1.58 y	30:02	1.11	91.5		2.50				91.5
13C-PCB-28	1.25e+08	1.04 y	26:41	1.71	99.2		2.50				99.2
13C-PCB-52	7.40e+07	0.82 y	28:58	-	194		2.50				
PCB-81	4.77e+07	0.79 y	36:08	1.06	51.6		2.50	-	-	*	-
13C-PCB-81	8.68e+07	0.80 y	36:07	1.50	94.6		2.50				94.6
PCB-77	4.67e+07	0.80 y	36:43	1.02	51.5		2.50	-	-	*	-
13C-PCB-77	8.88e+07	0.81 y	36:41	1.57	92.6		2.50				92.6
PCB-155	4.29e+07	1.25 y	34:13	1.02	50.1		2.50	-	-	*	-
13C-PCB-155	8.37e+07	1.29 y	34:12	1.42	96.4		2.50				96.4
13C-PCB-111	7.91e+07	1.62 y	36:16	1.29	100		2.50				100
13C-PCB-101	6.12e+07	1.63 y	34:39	-	186		2.50				
PCB-123	4.15e+07	1.55 y	38:20	1.03	50.8		2.50	-	-	*	-
13C-PCB-123	7.89e+07	1.56 y	38:19	1.40	94.0		2.50				94.0
PCB-118	4.60e+07	1.56 y	38:30	1.02	51.1		2.50	-	-	*	-
13C-PCB-118	8.84e+07	1.61 y	38:29	1.53	95.8		2.50				95.8
PCB-114	4.30e+07	1.55 y	39:08	1.01	51.3		2.50	-	-	*	-
13C-PCB-114	8.25e+07	1.60 y	39:06	1.45	94.9		2.50				94.9
PCB-105	4.10e+07	1.55 y	39:56	1.02	49.5		2.50	-	-	*	-
13C-PCB-105	8.17e+07	1.59 y	39:56	1.44	94.4		2.50				94.4
PCB-126	3.84e+07	1.54 y	42:04	1.02	51.0		2.50	-	-	*	-
13C-PCB-126	7.40e+07	1.60 y	42:03	1.37	89.9		2.50				89.9
PCB-167	3.91e+07	1.25 y	43:25	1.07	49.0		2.50	-	-	*	-
13C-PCB-167	7.47e+07	1.28 y	43:23	1.28	96.8		2.50				96.8
PCB-156	3.91e+07	1.26 y	44:39	1.10	49.8		2.50	-	-	*	-
13C-PCB-156	7.16e+07	1.28 y	44:37	1.24	96.3		2.50				96.3
PCB-157	3.84e+07	1.26 y	44:54	1.06	49.5		2.50	-	-	*	-
13C-PCB-157	7.32e+07	1.29 y	44:54	1.34	91.1		2.50				91.1
PCB-169	3.52e+07	1.29 y	46:46	1.06	49.9		2.50	-	-	*	-
13C-PCB-169	6.65e+07	1.30 y	46:46	1.24	89.0		2.50				89.0
PCB-188	3.74e+07	1.08 y	39:43	1.02	53.0		2.50	-	-	*	-
13C-PCB-188	6.94e+07	1.07 y	39:41	1.29	89.7		2.50				89.7
PCB-189	3.15e+07	1.08 y	48:26	0.99	52.6		2.50	-	-	*	-
13C-PCB-189	6.04e+07	1.07 y	48:24	1.07	94.1		2.50				94.1
PCB-202	3.12e+07	0.92 y	44:49	0.99	48.8		2.50	-	-	*	-
13C-PCB-202	6.48e+07	0.90 y	44:47	1.09	99.1		2.50				99.1
13C-PCB-178	4.81e+07	1.07 y	42:19	0.81	99.3		2.50				99.3
13C-PCB-138	6.01e+07	1.28 y	41:33	-	187		2.50				

Client ID: 1668 CS3 R181204D ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 06AUG19Z GC Column: DB1MS Amount: 1.000

PCB-205	3.89e+07	0.91 y	50:05	1.02	53.9	2.50	-	-	*	-
13C-PCB-205	7.05e+07	0.89 y	50:04	1.40	94.0	2.50				94.0
PCB-208	3.88e+07	1.36 y	49:09	0.98	52.8	2.50	-	-	*	-
13C-PCB-208	7.53e+07	0.81 y	49:09	1.36	103	2.50				103
PCB-206	2.71e+07	1.33 y	51:17	0.99	51.1	2.50	-	-	*	-
13C-PCB-206	5.34e+07	0.79 y	51:16	1.01	99.1	2.50				99.1
PCB-209	3.75e+07	1.19 y	52:28	1.09	51.3	2.50	-	-	*	-
13C-PCB-209	6.71e+07	1.21 y	52:26	1.21	103	2.50				103
13C-PCB-194	5.36e+07	0.90 y	49:48	-	175	2.50				

Analyst: _____ Date: 8/6/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:06AUG19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

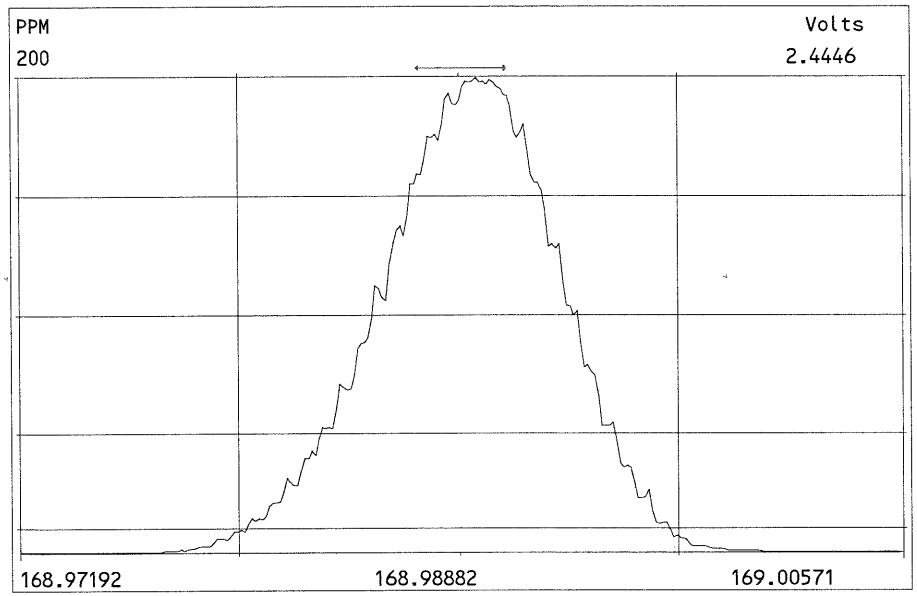
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
06AUG19Z	1	ST080619Z1	1668 CS3 R181204D	6-AUG-19 08:16:44	ST080619Z1	ST080619Z2	BS
06AUG19Z	2	SS080619Z1	Daily 209 190408A	6-AUG-19 09:15:04	ST080619Z1	ST080619Z2	BS
06AUG19Z	3	04993-001-0001-OPR	OPR	6-AUG-19 10:13:50	ST080619Z1	ST080619Z2	BS
06AUG19Z	4	04993-001-0001-MB	Method Blank	6-AUG-19 11:12:36	ST080619Z1	ST080619Z2	BS
06AUG19Z	5	12512-001-0001-SA	LDW-Y2-IN-ENR-CB-SSWI	6-AUG-19 12:10:57	ST080619Z1	ST080619Z2	BS
06AUG19Z	6	12512-002-0001-SA	LDW-Y2-IN-ENR-CC-SSWI	6-AUG-19 13:09:43	ST080619Z1	ST080619Z2	BS
06AUG19Z	7	12512-003-0001-SA	LDW-Y2-IN-ENR-CD-SSWI	6-AUG-19 14:08:29	ST080619Z1	ST080619Z2	BS
06AUG19Z	8	12512-004-0001-SA	LDW-Y2-IN-ENR-CE-SSWI	6-AUG-19 15:06:50	ST080619Z1	ST080619Z2	BS
06AUG19Z	9	12512-006-0001-SA	LDW-Y2-SC-ENR+AC-CB-S010	6-AUG-19 16:05:12	ST080619Z1	ST080619Z2	BS
06AUG19Z	10	12512-007-0001-SA	LDW-Y2-SC-ENR+AC-CC-S010	6-AUG-19 17:03:36	ST080619Z1	ST080619Z2	BS
06AUG19Z	11	12512-009-0001-SA	LDW-Y2-SC-ENR+AC-CE-S010	6-AUG-19 18:02:23	ST080619Z1	ST080619Z2	BS
06AUG19Z	12	12512-010-0001-SA	LDW-Y2-SC-ENR+AC-CF-S010	6-AUG-19 19:01:09	ST080619Z1	ST080619Z2	BS
06AUG19Z	13	12512-011-0001-SA	LDW-Y2-SC-ENR-CA-S010	6-AUG-19 19:59:30	ST080619Z1	ST080619Z2	BS
06AUG19Z	14	SB080619Z1	Solvent Blank	6-AUG-19 20:57:51	ST080619Z1	ST080619Z2	BS
06AUG19Z	15	QC080619Z1	KQC	6-AUG-19 21:56:12	ST080619Z1	ST080619Z2	BS
06AUG19Z	16	ST080619Z2	1668 CS3 R181204D	6-AUG-19 22:54:36	ST080619Z1	ST080619Z2	BS

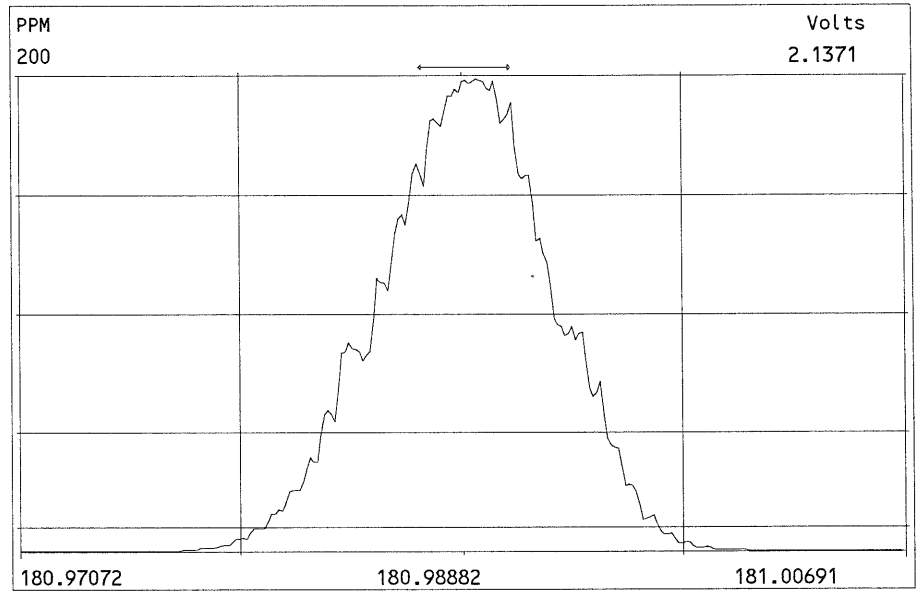
8/7/19

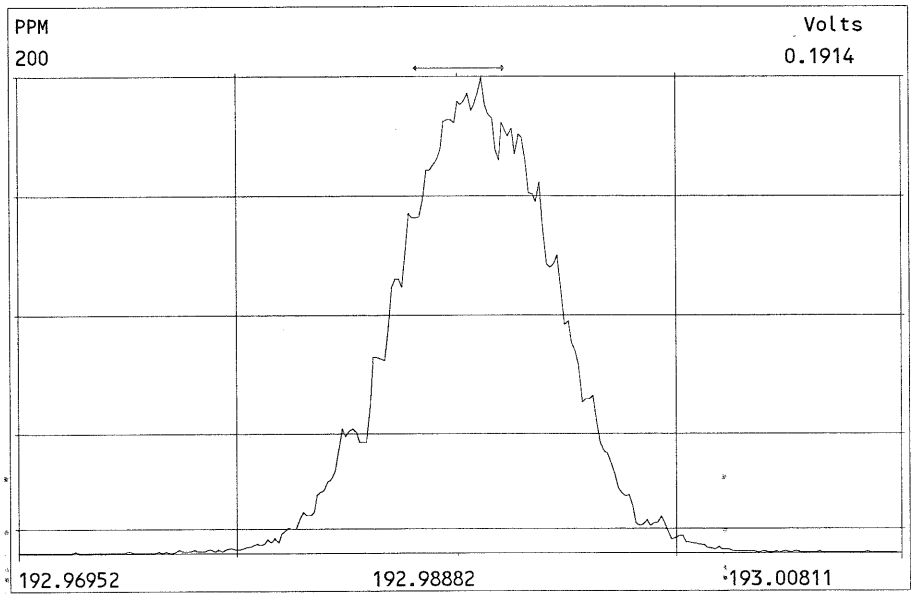
Data Backed Up:_____

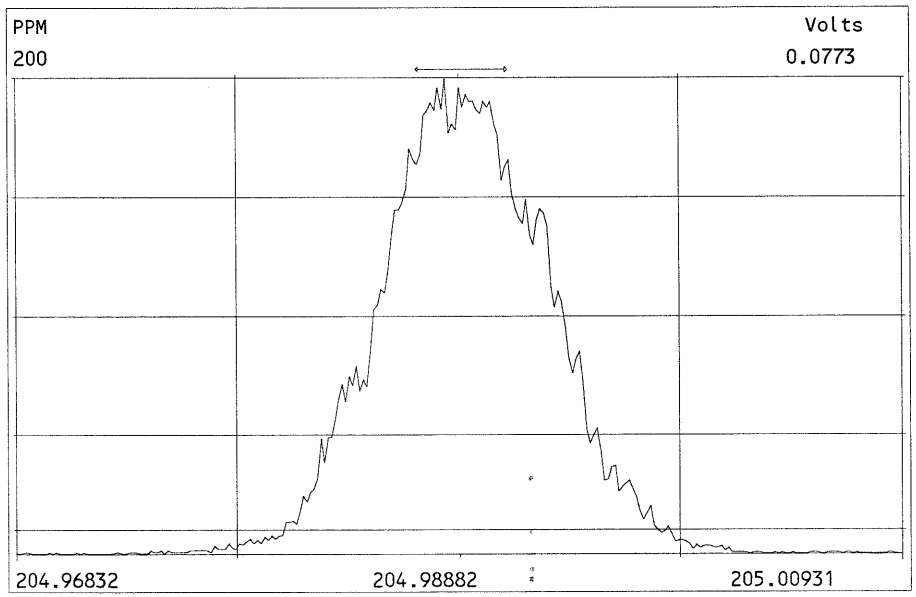
Date:_____

Peak Locate Examination: 6-AUG-2019:08:14 File:06AUG19Z
Experiment:1668PCB Function:1 Reference:PFK

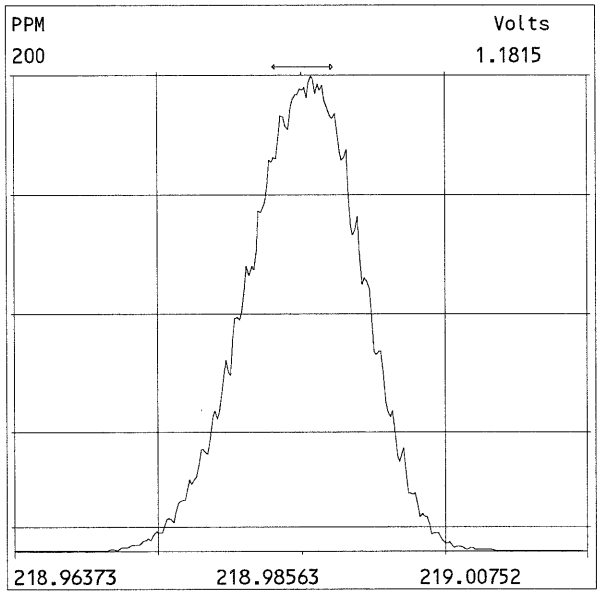


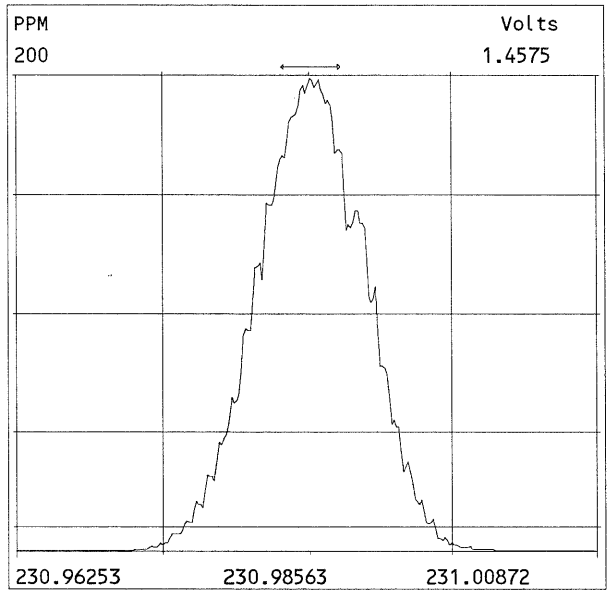


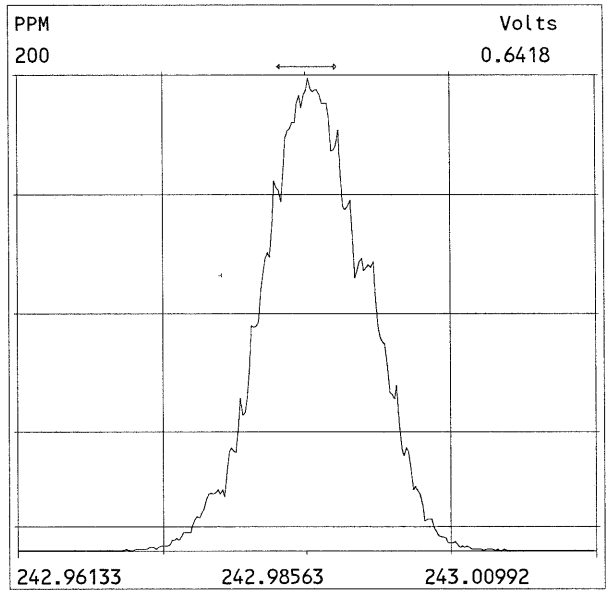


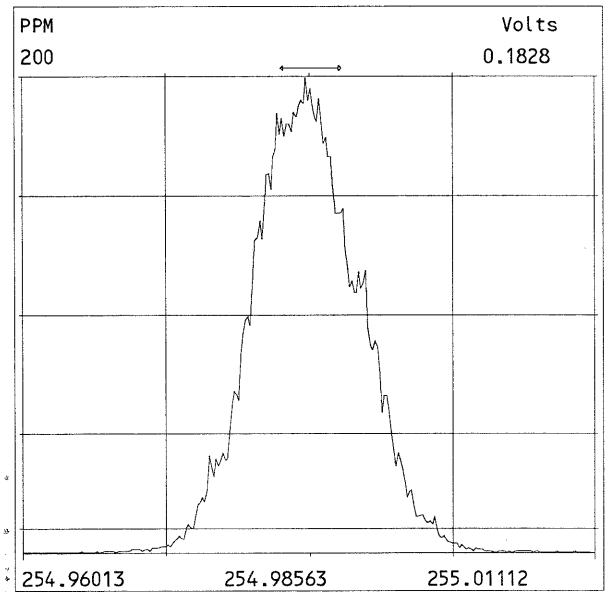


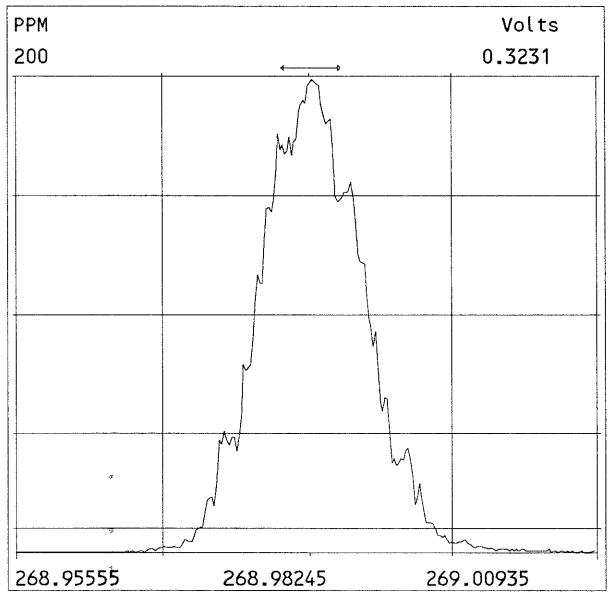
Peak Locate Examination: 6-AUG-2019:08:14 File:06AUG19Z
Experiment:1668PCB Function:2 Reference:PFK

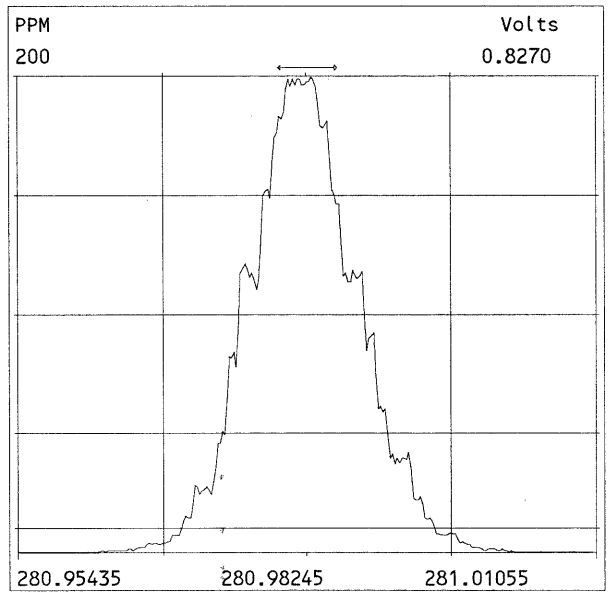




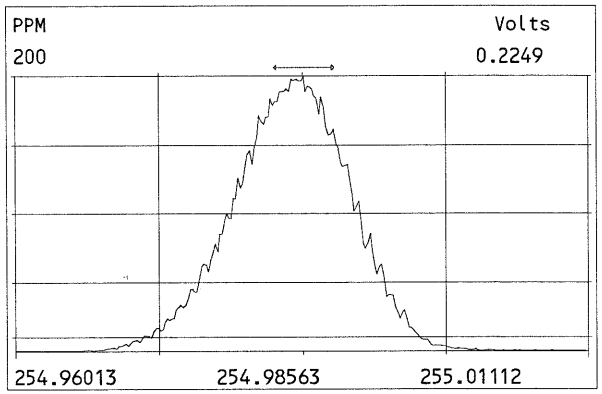


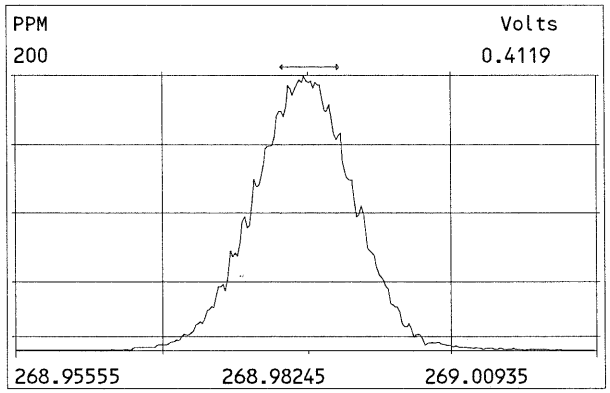


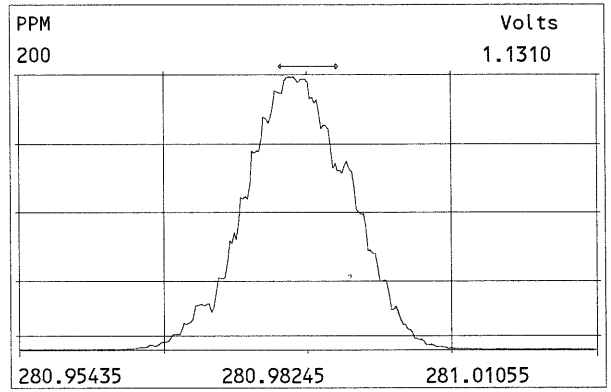


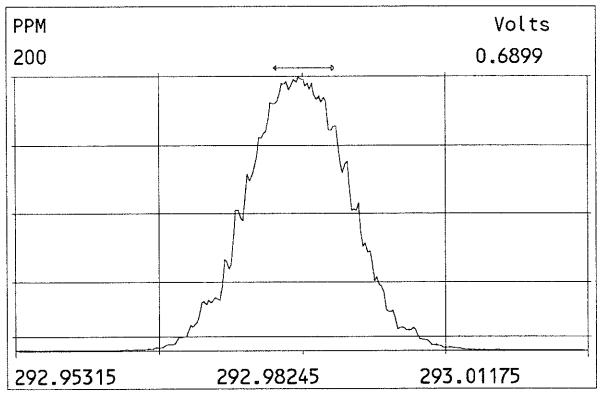


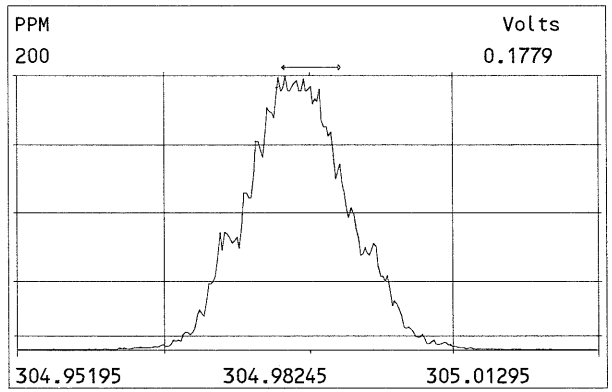
Peak Locate Examination: 6-AUG-2019:08:14 File:06AUG19Z
Experiment:1668PCB Function:3 Reference:PFK

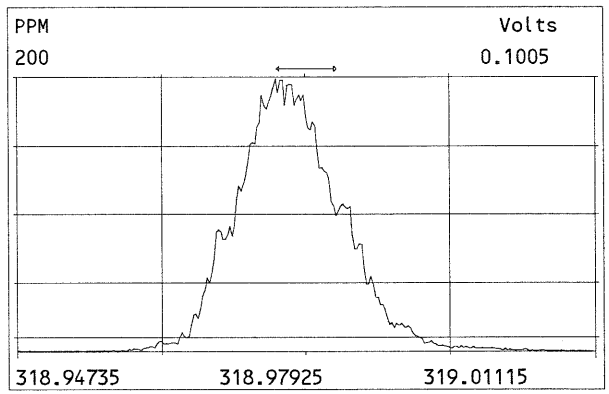


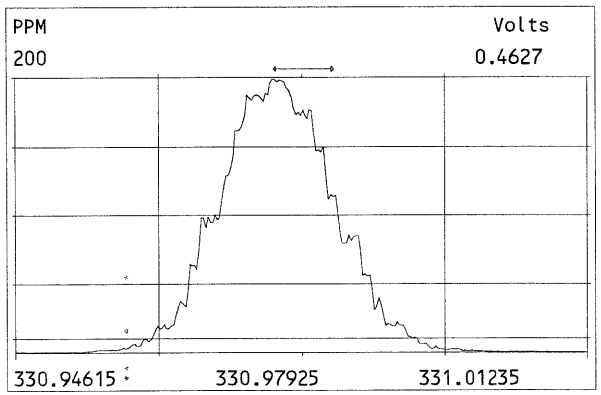


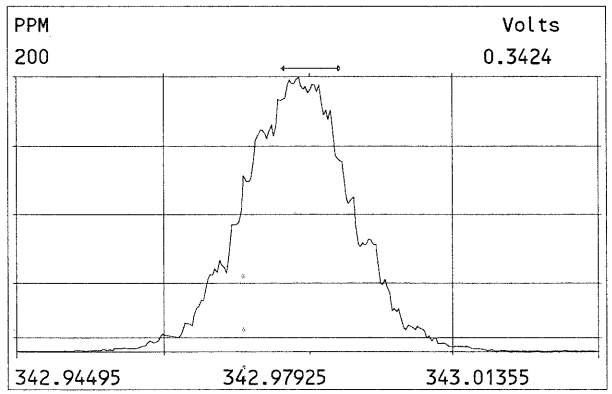




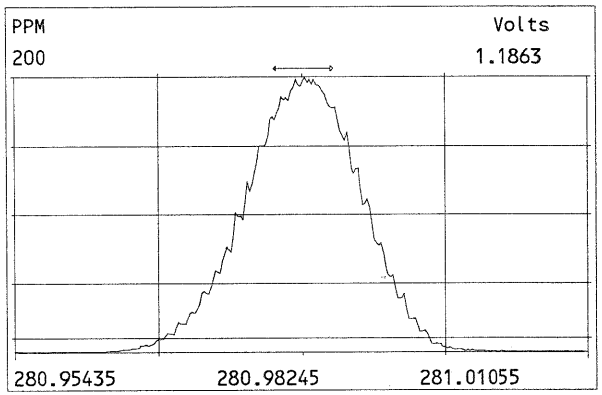


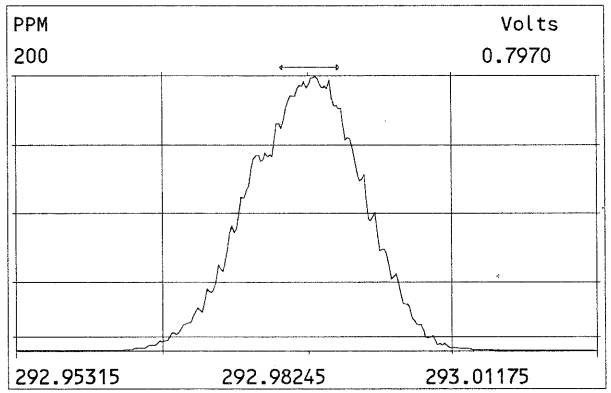


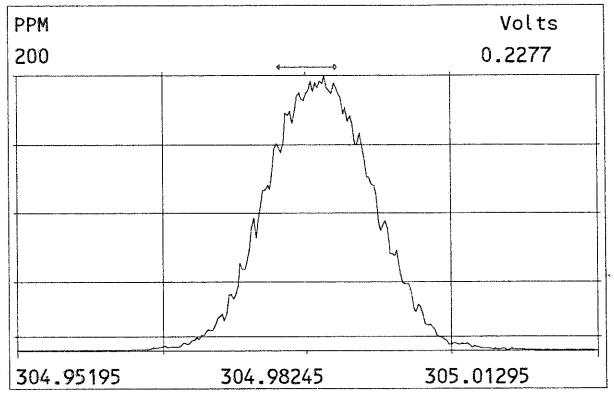


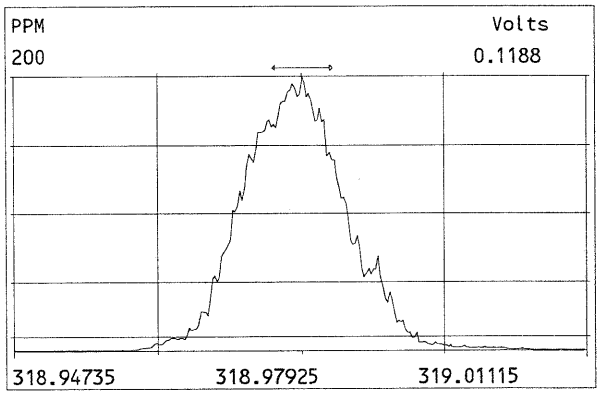


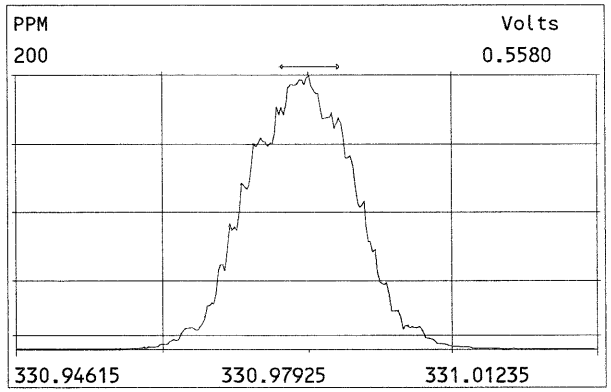
Peak Locate Examination: 6-AUG-2019:08:15 File:06AUG19Z
Experiment:1668PCB Function:4 Reference:PFK

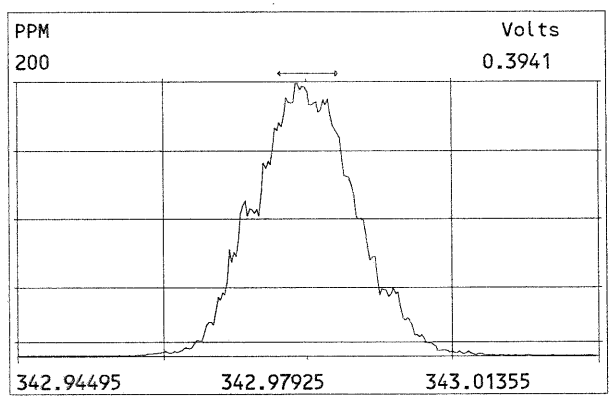


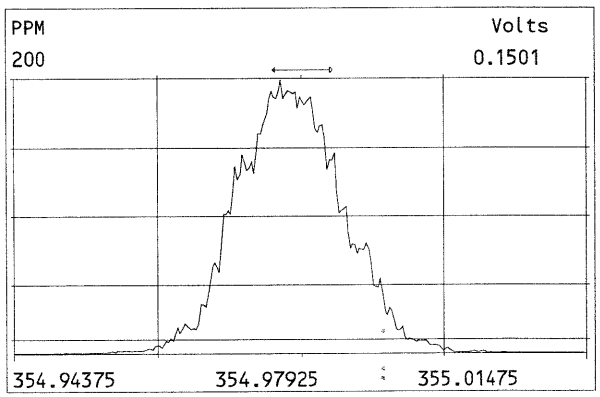


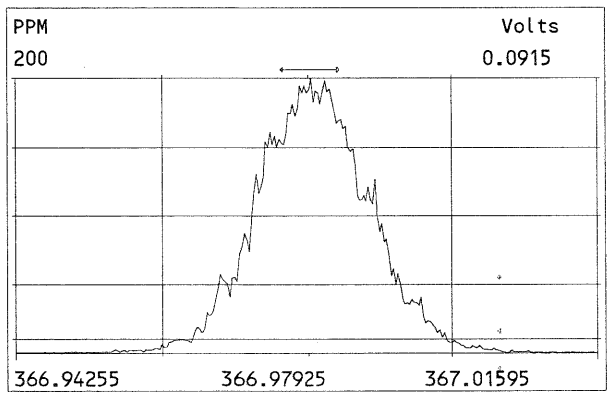


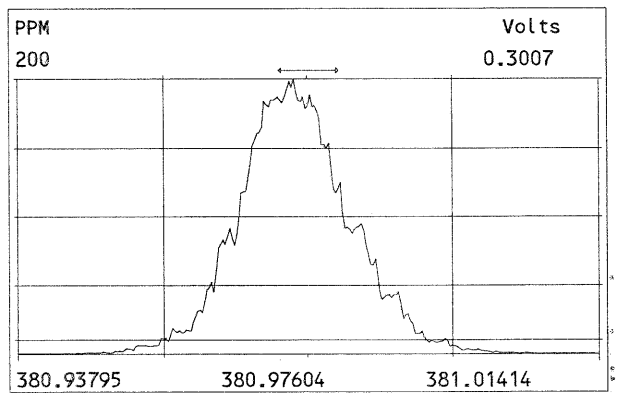




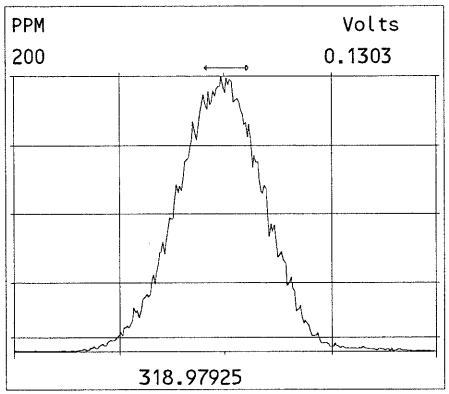


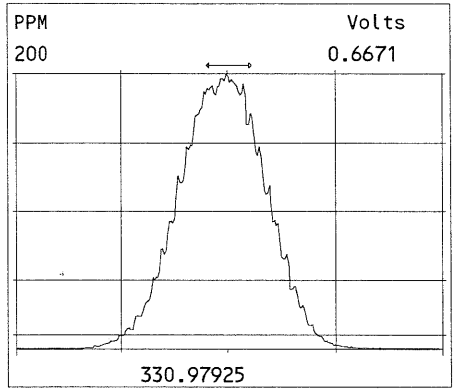


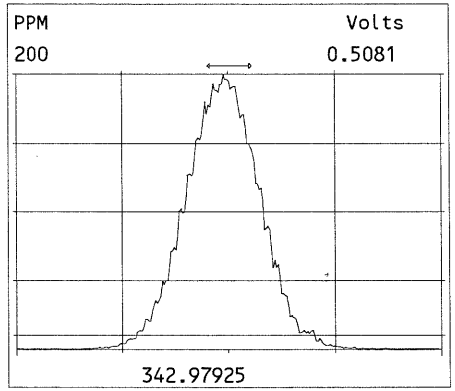


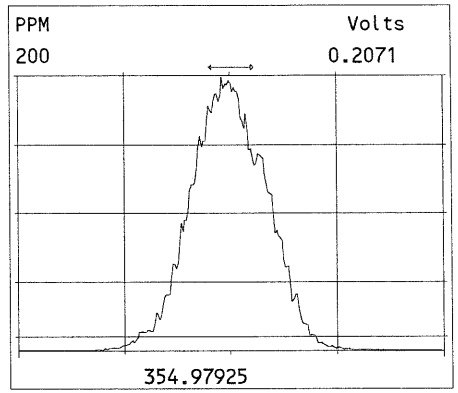


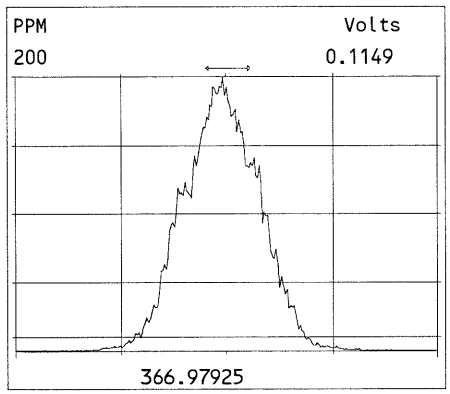
Peak Locate Examination: 6-AUG-2019:08:15 File:06AUG19Z
Experiment:1668PCB Function:5 Reference:PFK

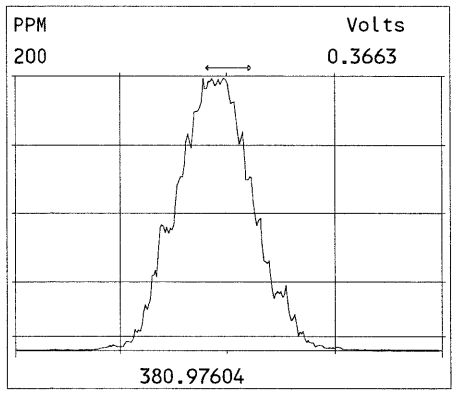


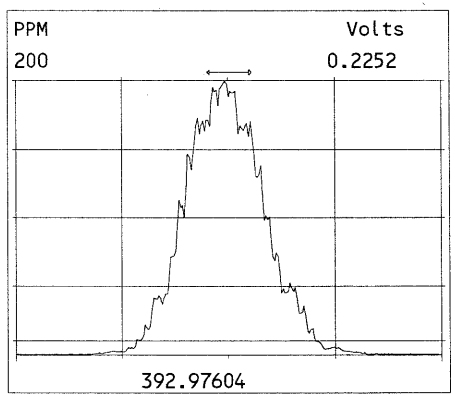


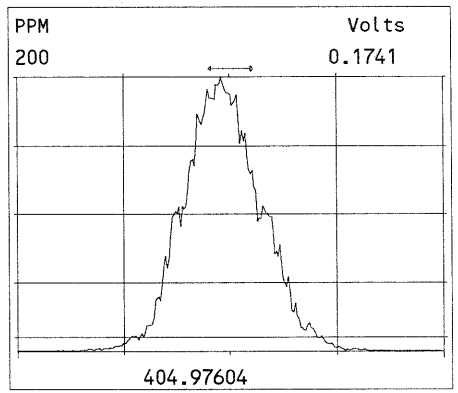


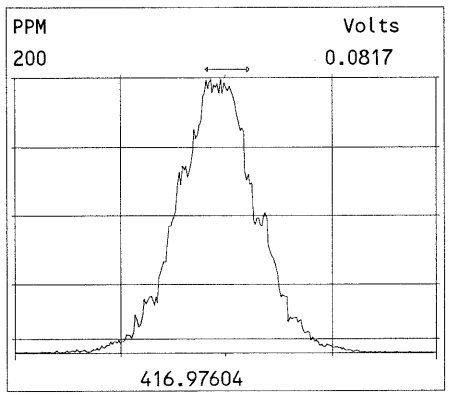


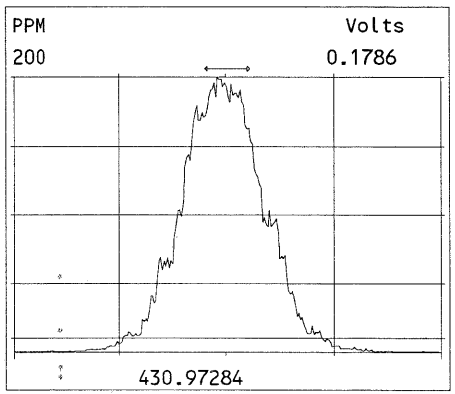


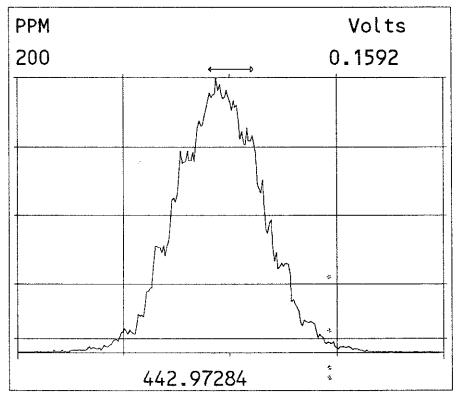




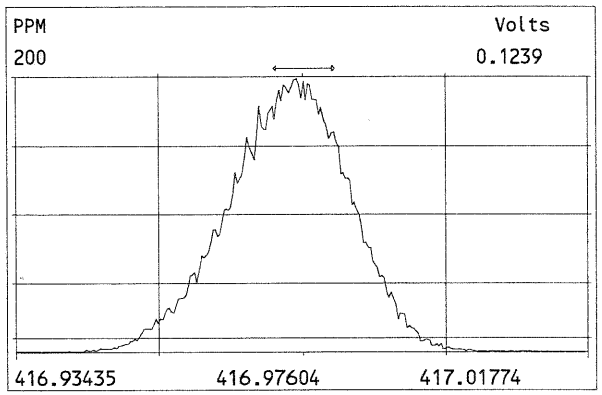


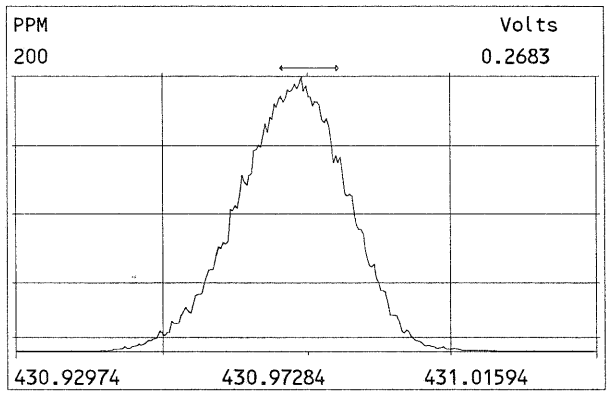


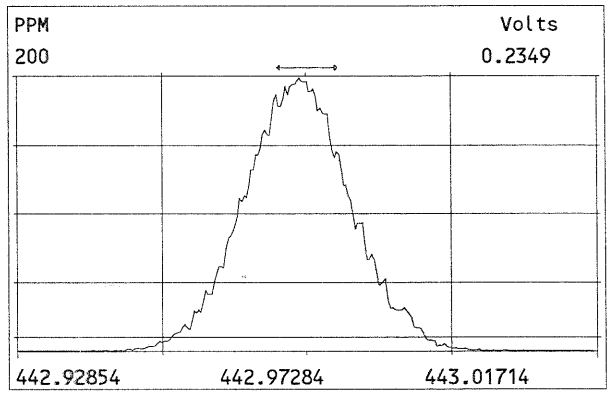


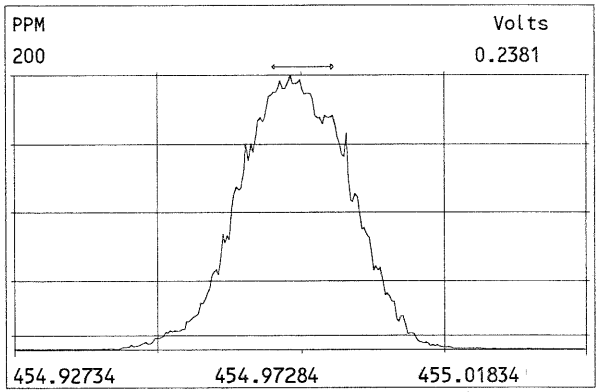


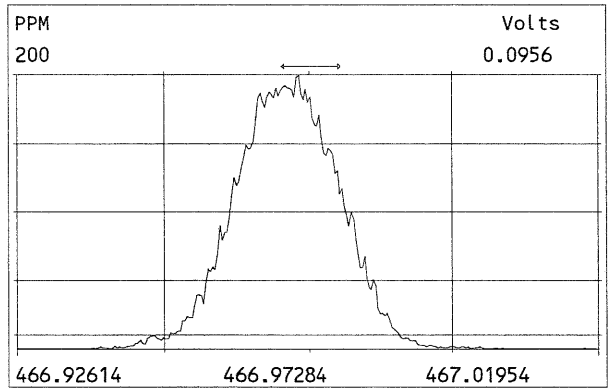
Peak Locate Examination: 6-AUG-2019:08:16 File:06AUG19Z
Experiment:1668PCB Function:6 Reference:PFK

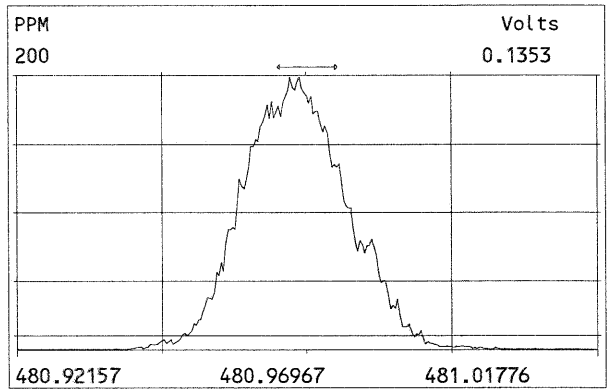


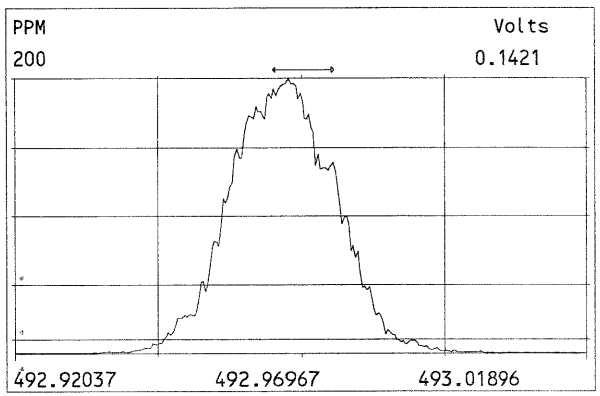


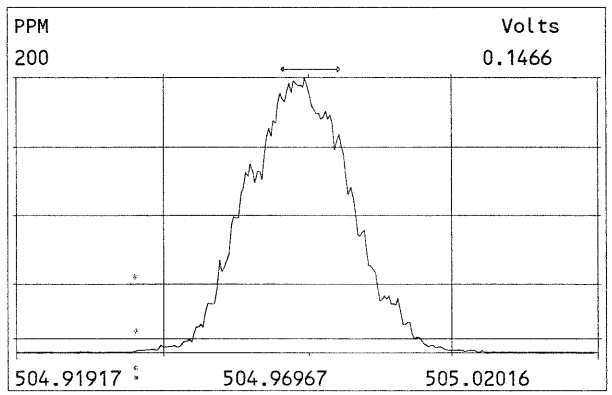


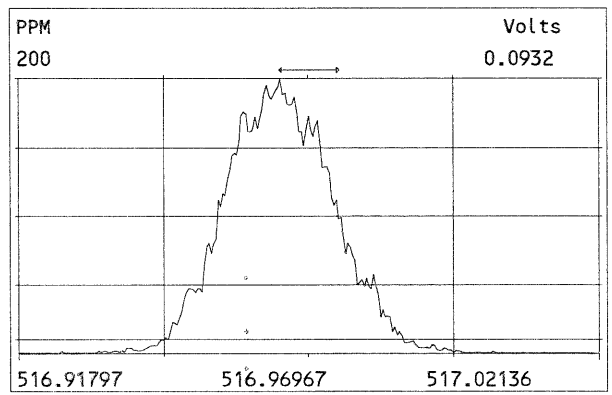




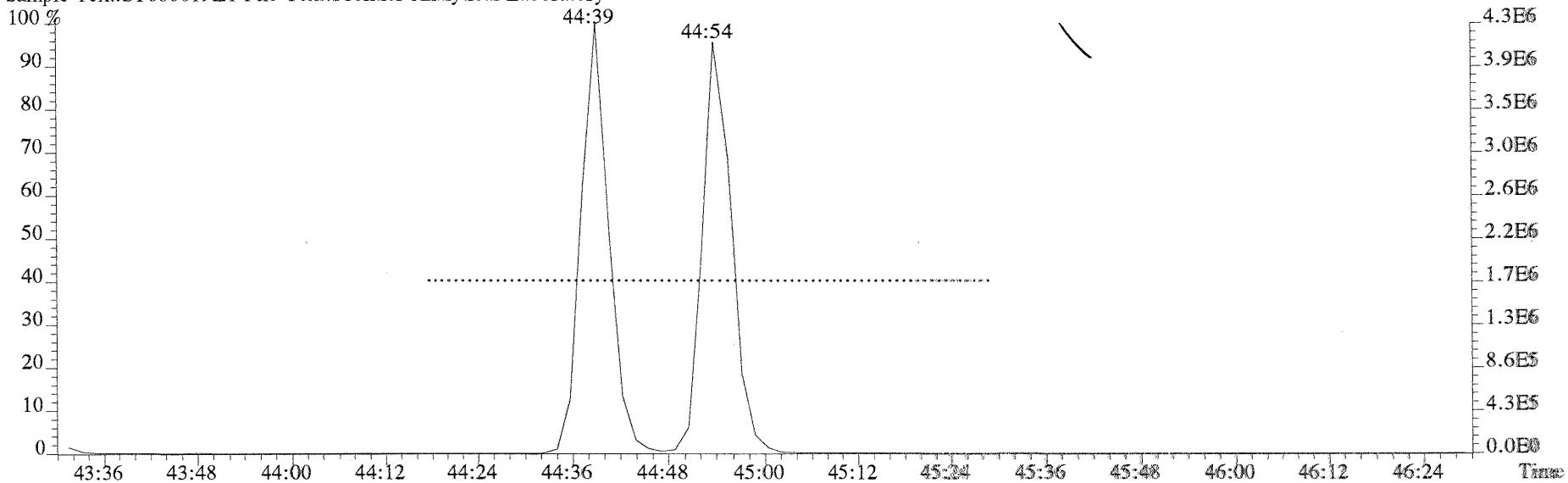




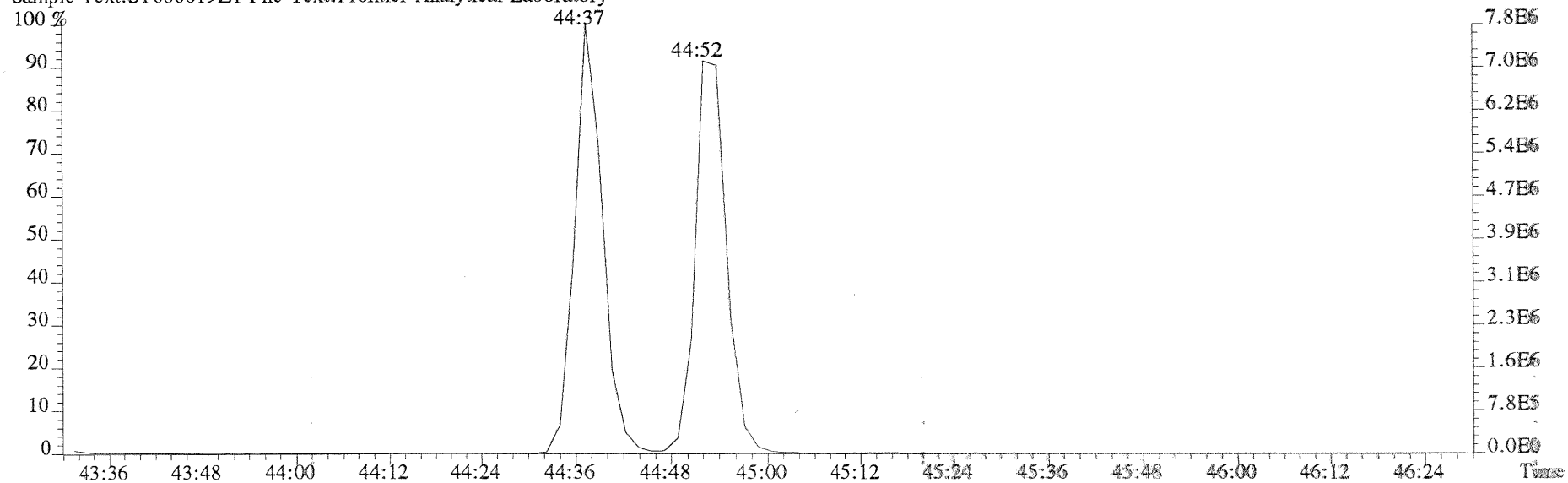




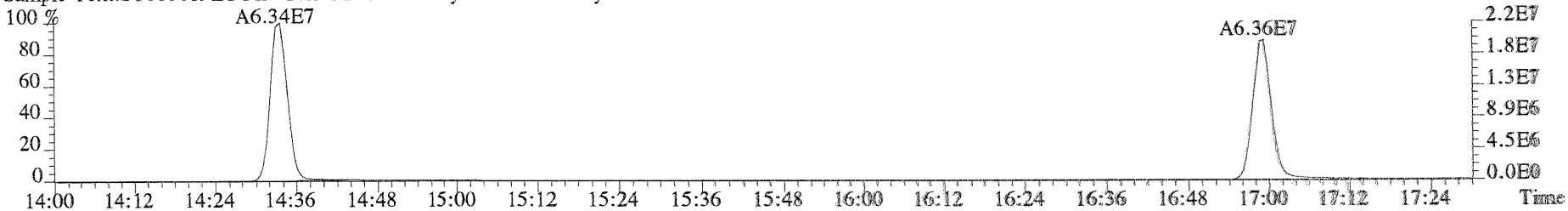
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



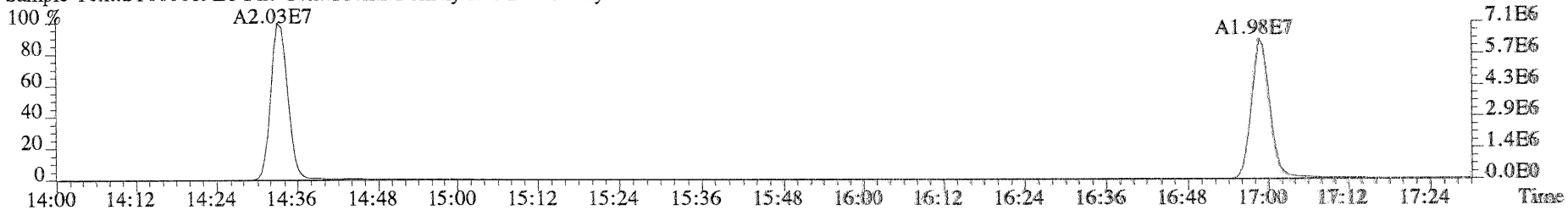
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



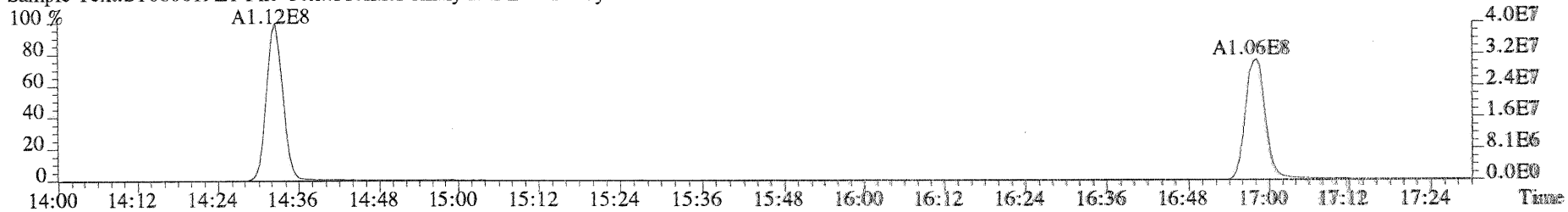
File:06AUG19Z #1-784 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



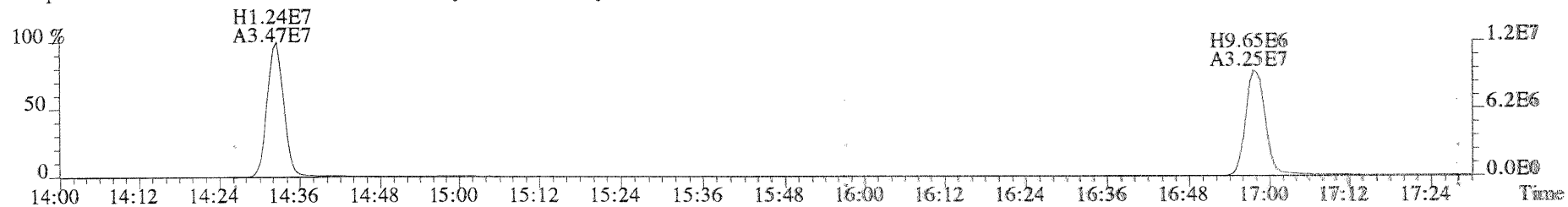
File:06AUG19Z #1-784 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



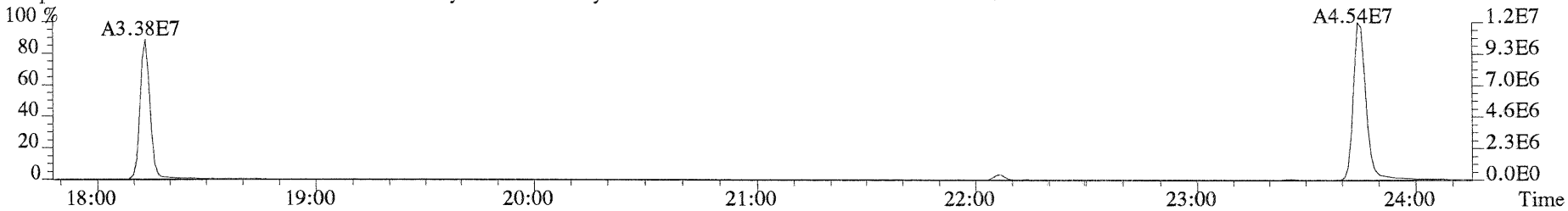
File:06AUG19Z #1-784 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



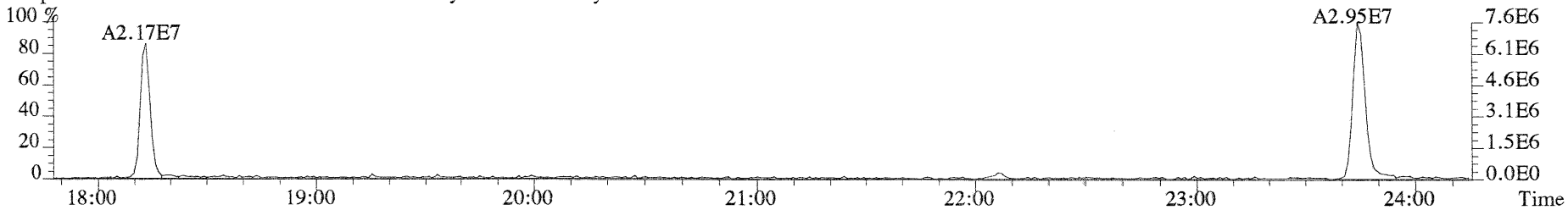
File:06AUG19Z #1-784 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



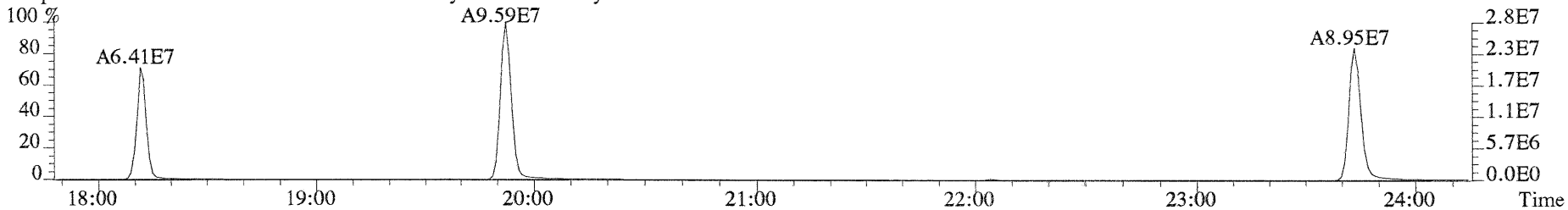
File:06AUG19Z #1-520 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



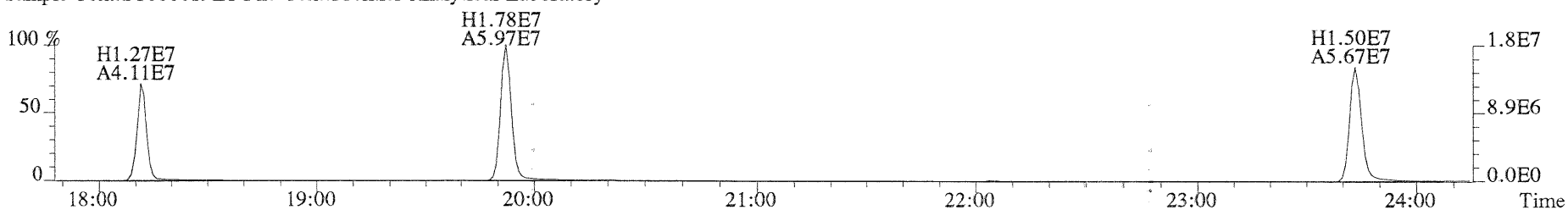
File:06AUG19Z #1-520 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
223.9975 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



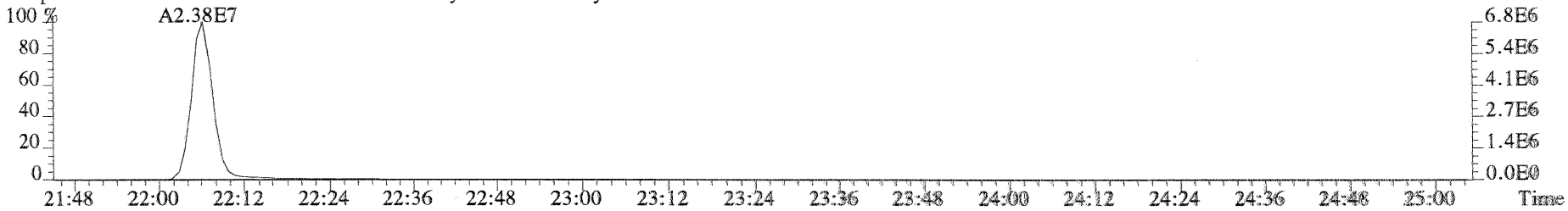
File:06AUG19Z #1-520 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



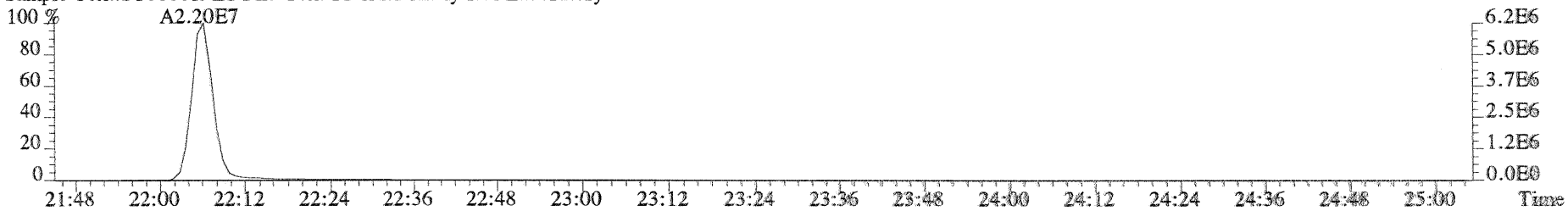
File:06AUG19Z #1-520 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



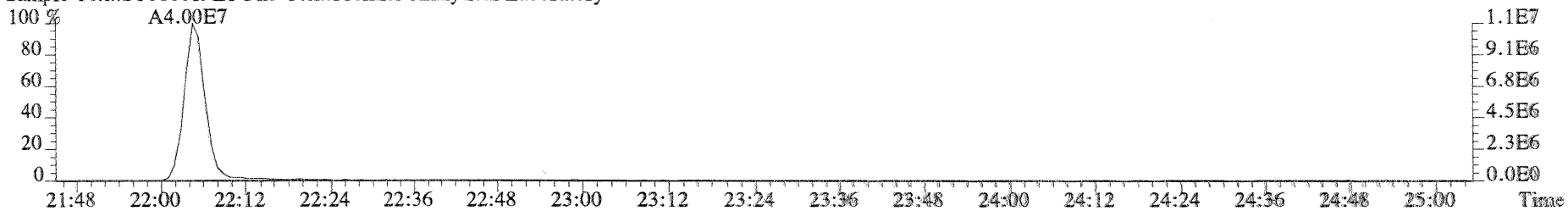
File:06AUG19Z #1-520 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



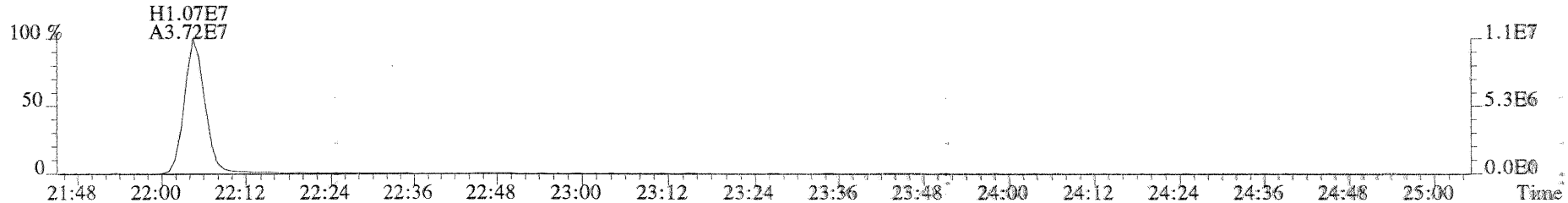
File:06AUG19Z #1-520 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



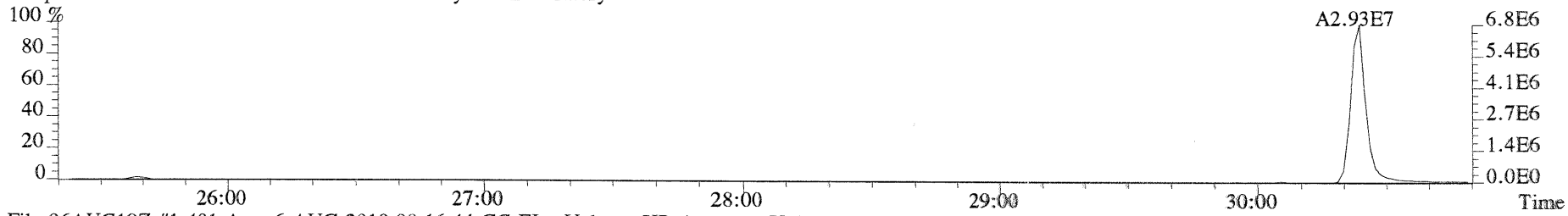
File:06AUG19Z #1-520 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



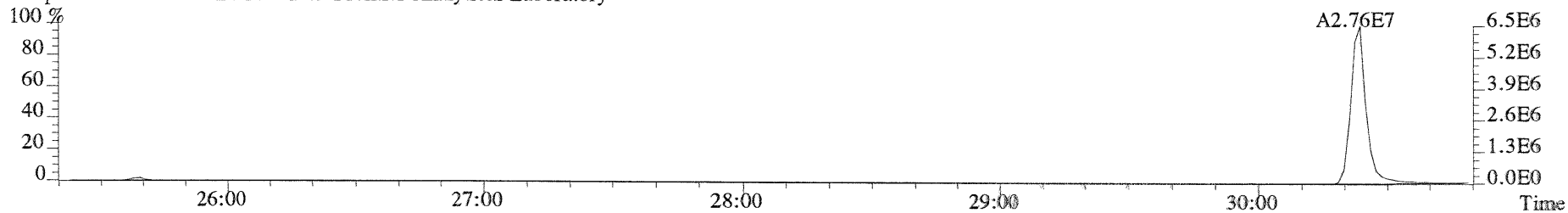
File:06AUG19Z #1-520 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



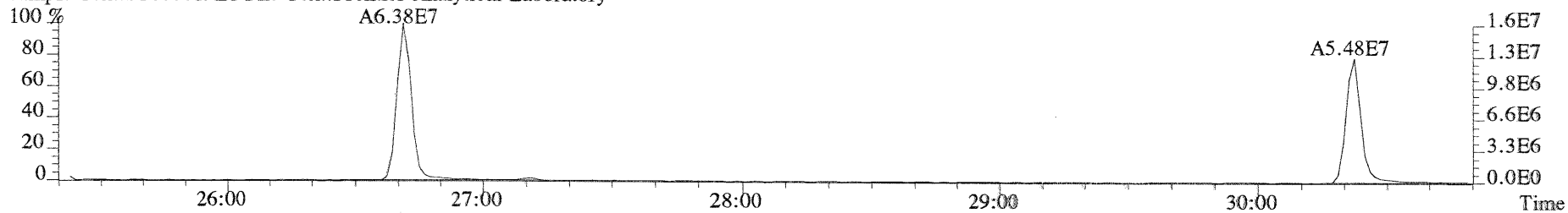
File:06AUG19Z #1-401 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



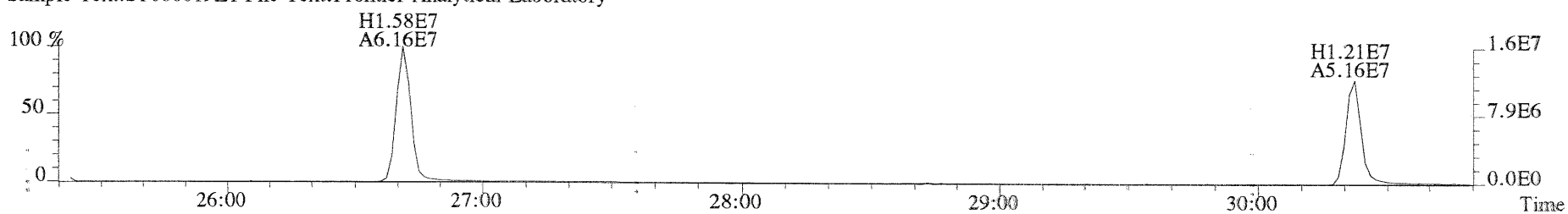
File:06AUG19Z #1-401 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



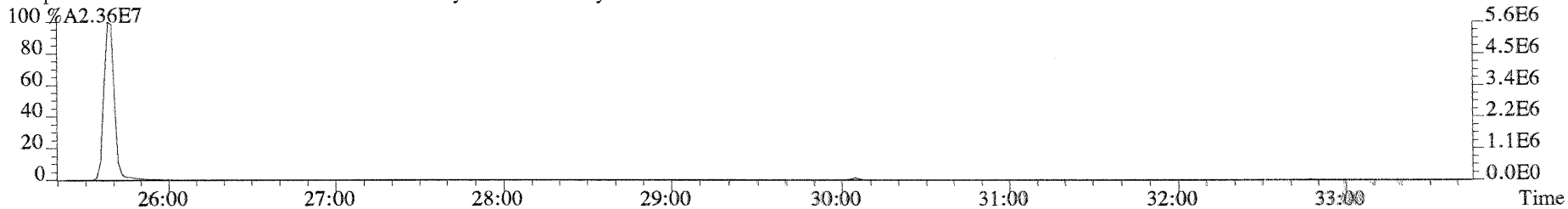
File:06AUG19Z #1-401 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



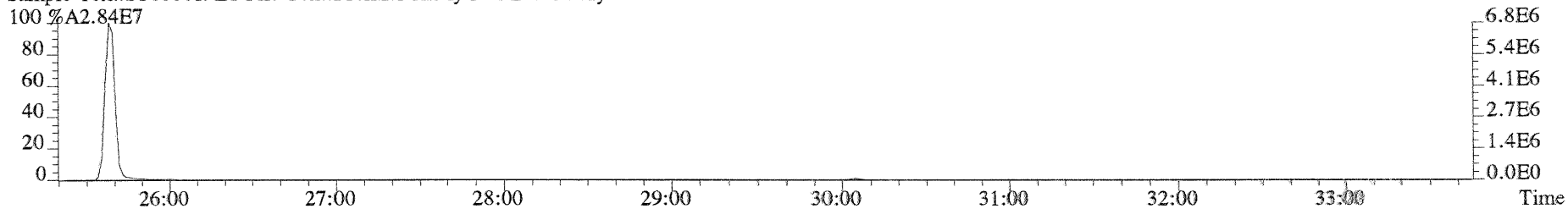
File:06AUG19Z #1-401 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



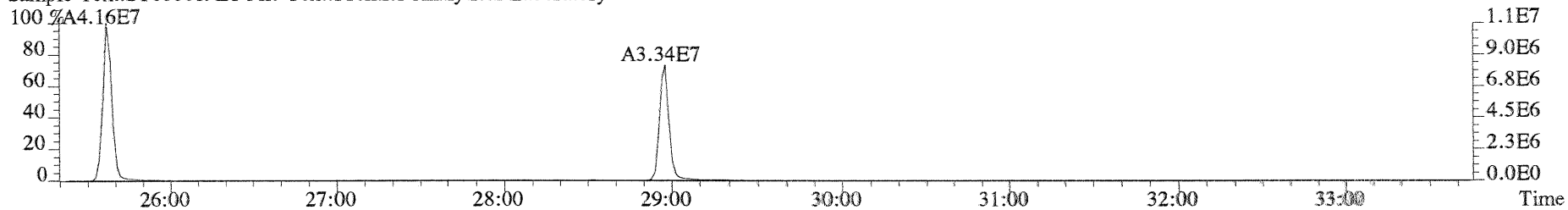
File:06AUG19Z #1-401 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



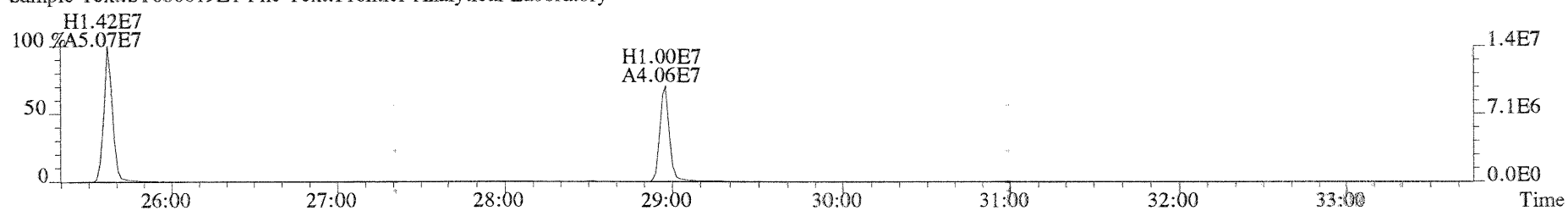
File:06AUG19Z #1-401 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



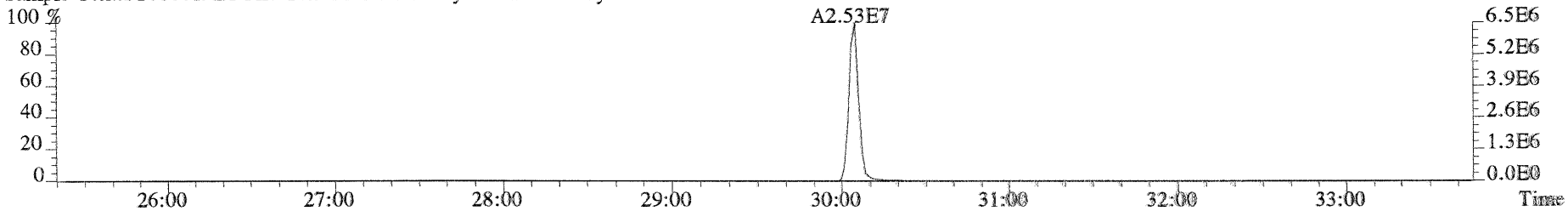
File:06AUG19Z #1-401 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



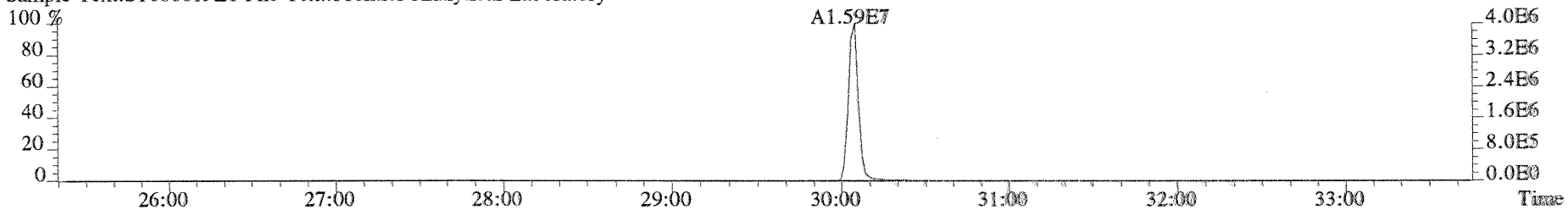
File:06AUG19Z #1-401 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



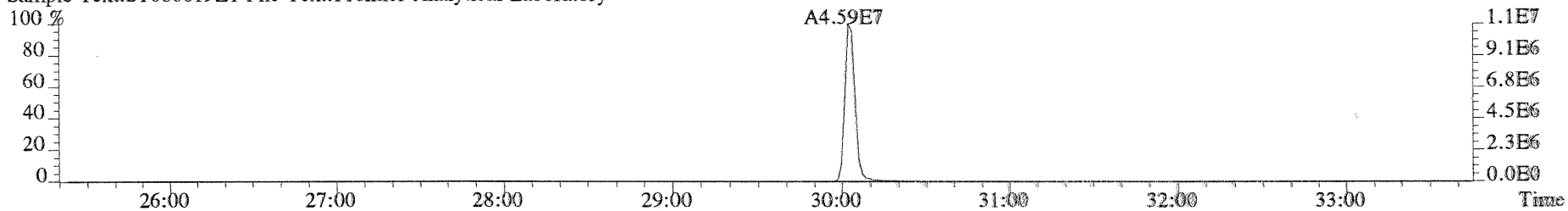
File:06AUG19Z #1-401 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-401 Acq: 6-AUG-2019 08:16:44 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:ST080619Z1 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-401 Acq: 6-AUG-2019 08:16:44 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:ST080619Z1 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-401 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
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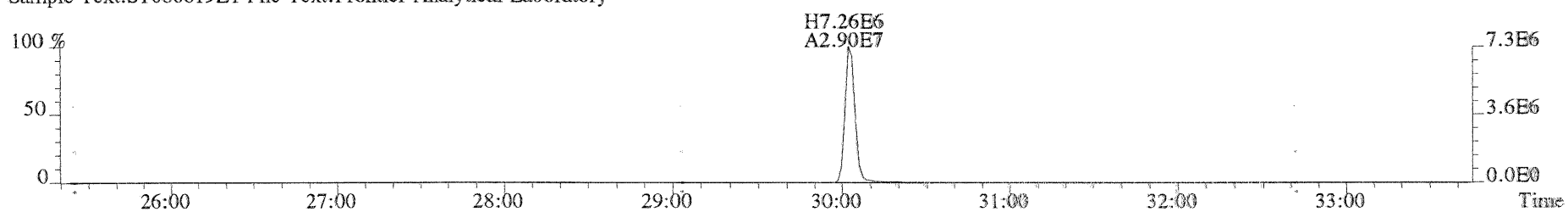
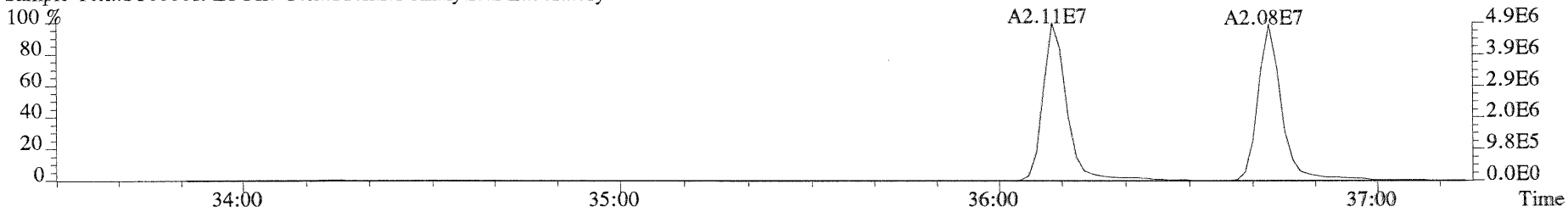
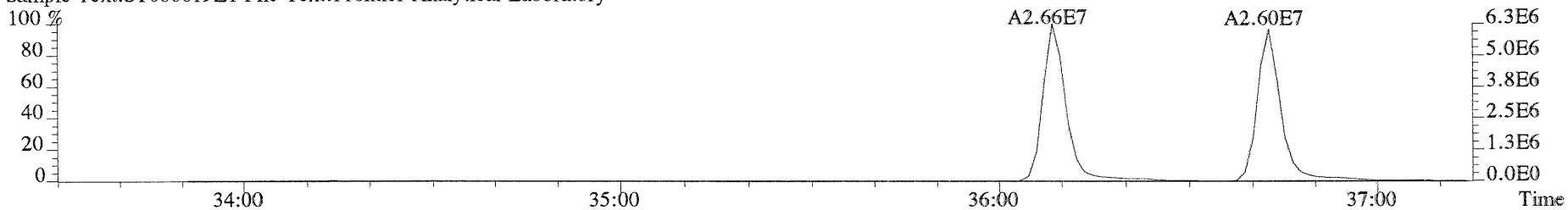
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



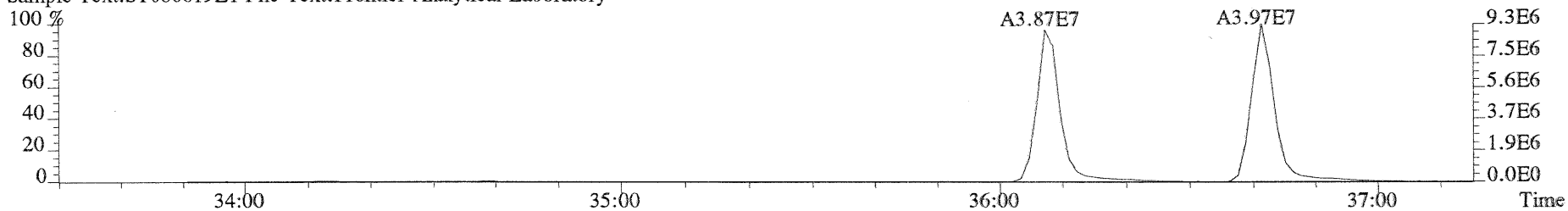
File:06AUG19Z #1-181 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



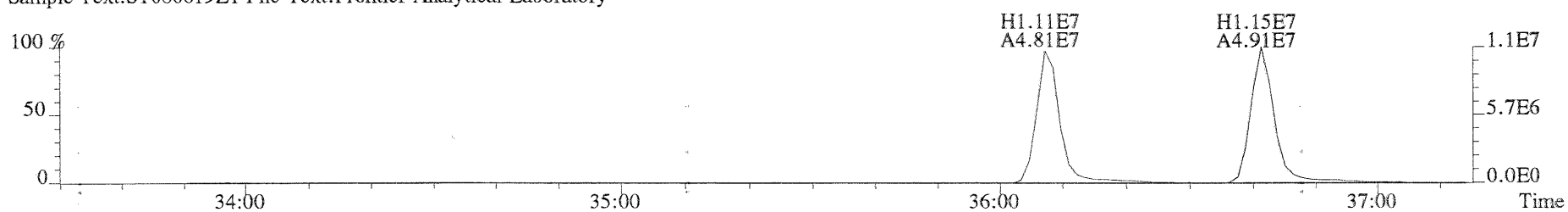
File:06AUG19Z #1-181 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



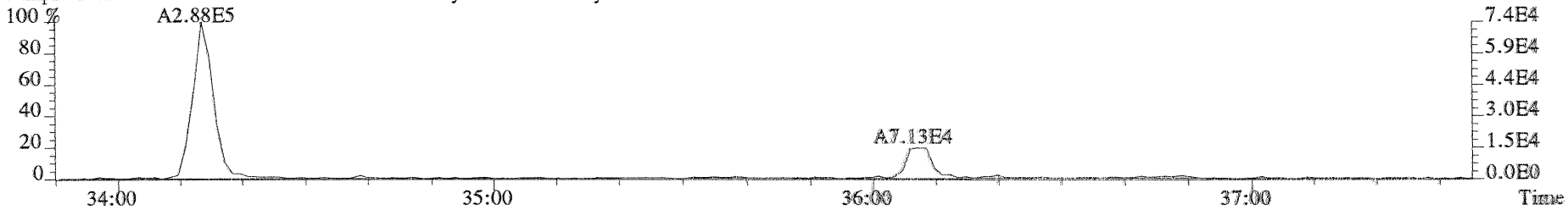
File:06AUG19Z #1-181 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



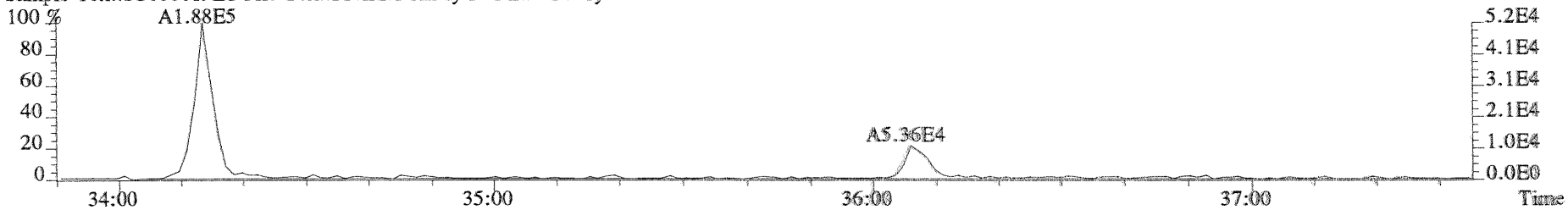
File:06AUG19Z #1-181 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



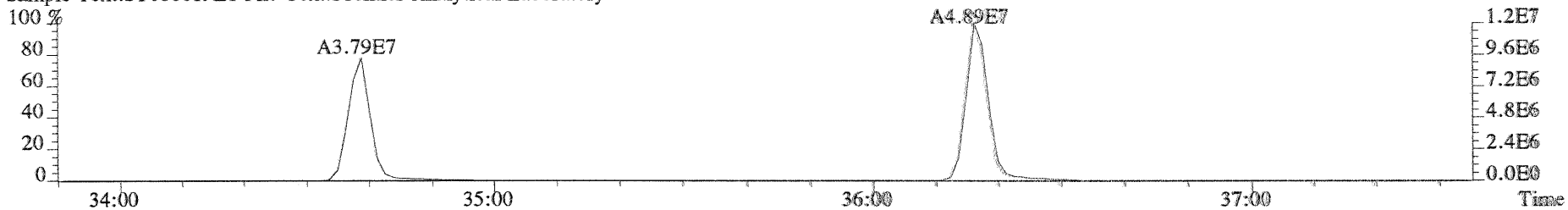
File:06AUG19Z #1-181 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



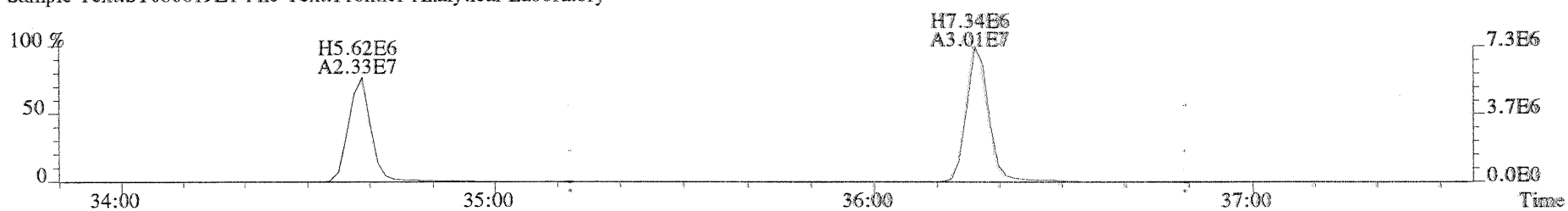
File:06AUG19Z #1-181 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



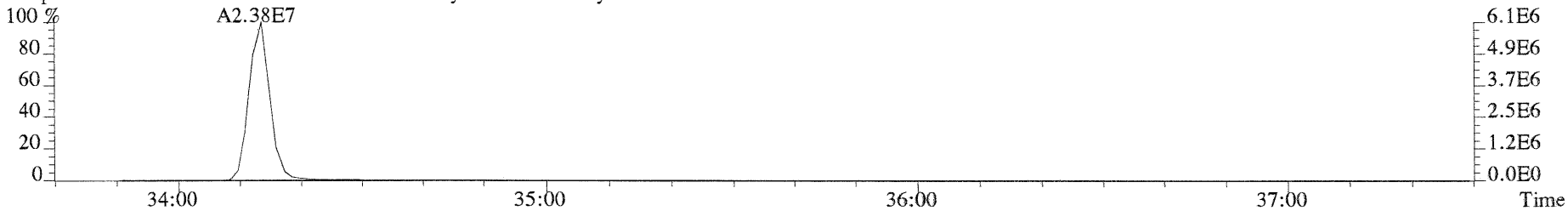
File:06AUG19Z #1-181 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



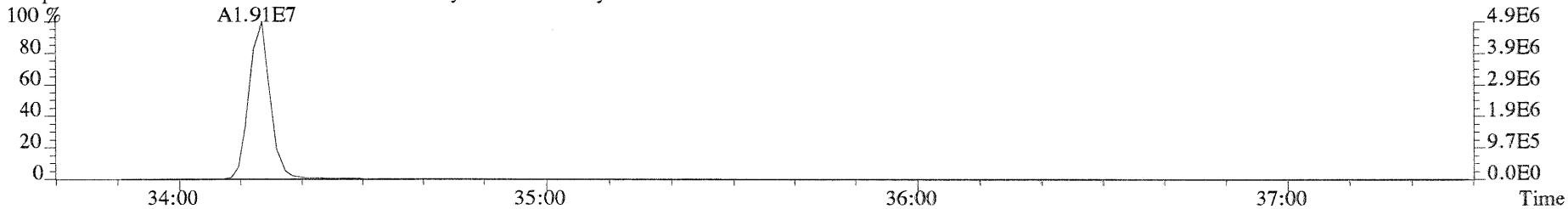
File:06AUG19Z #1-181 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



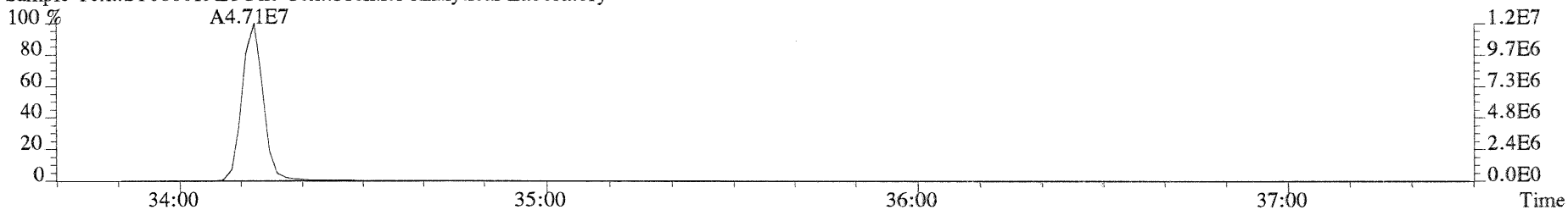
File:06AUG19Z #1-181 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



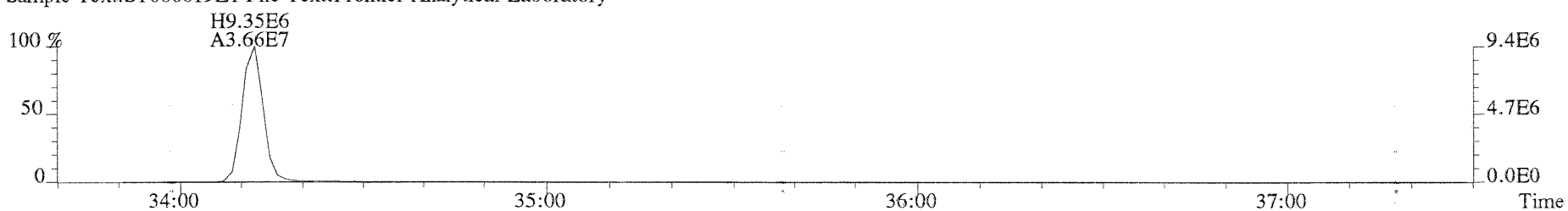
File:06AUG19Z #1-181 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



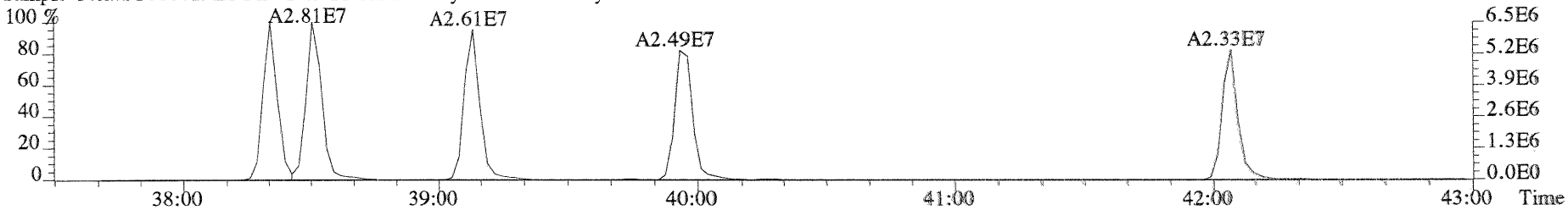
File:06AUG19Z #1-181 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



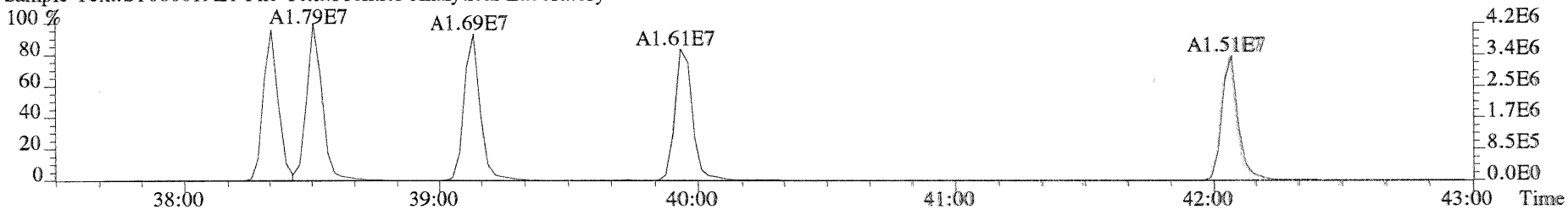
File:06AUG19Z #1-181 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



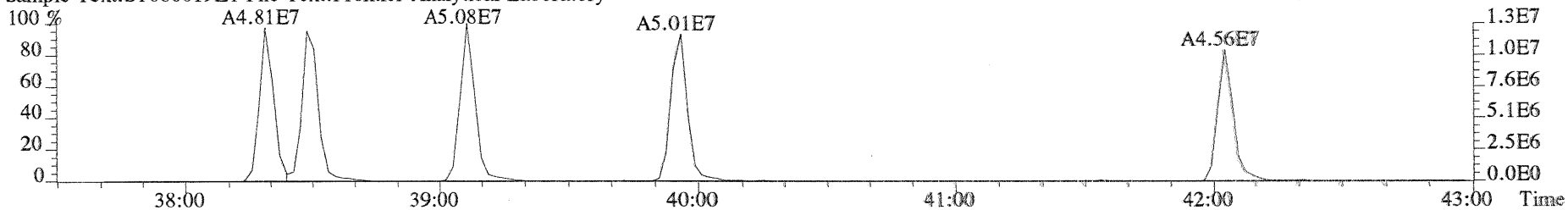
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



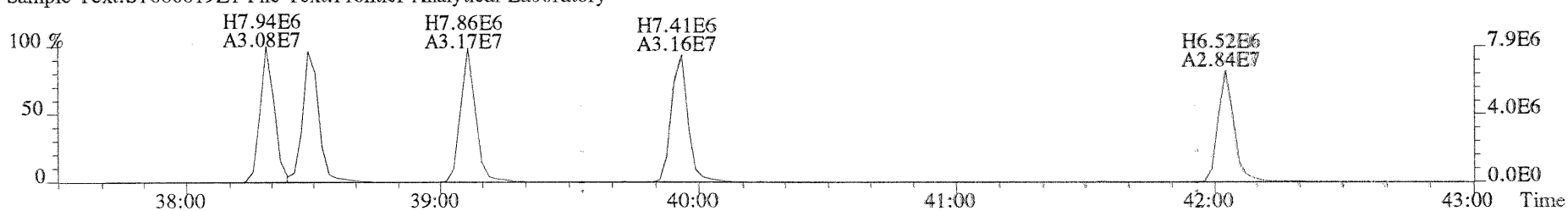
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



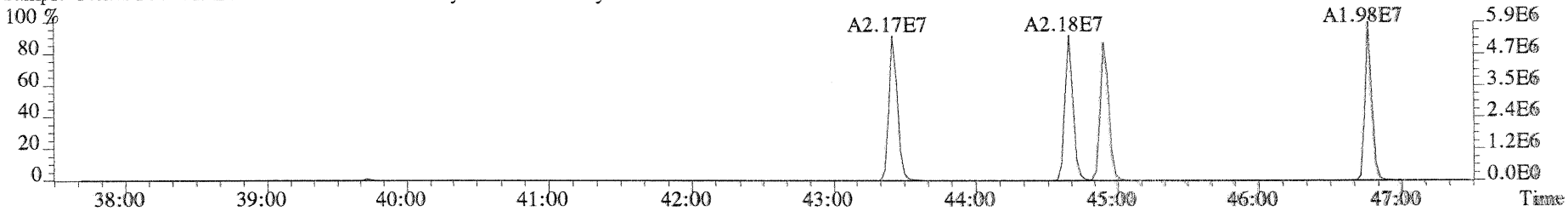
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



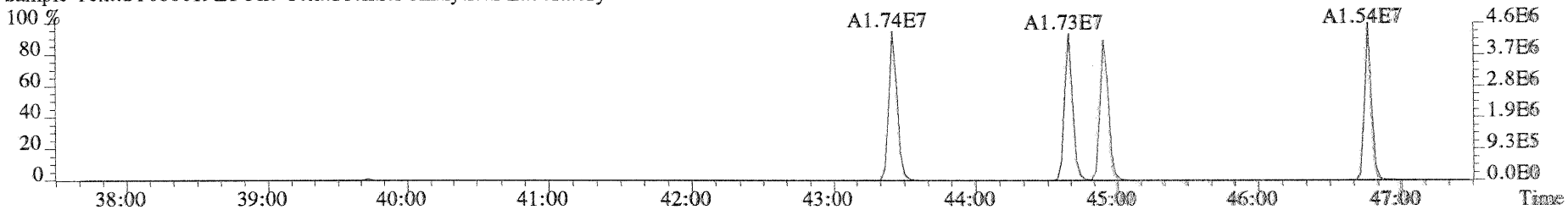
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



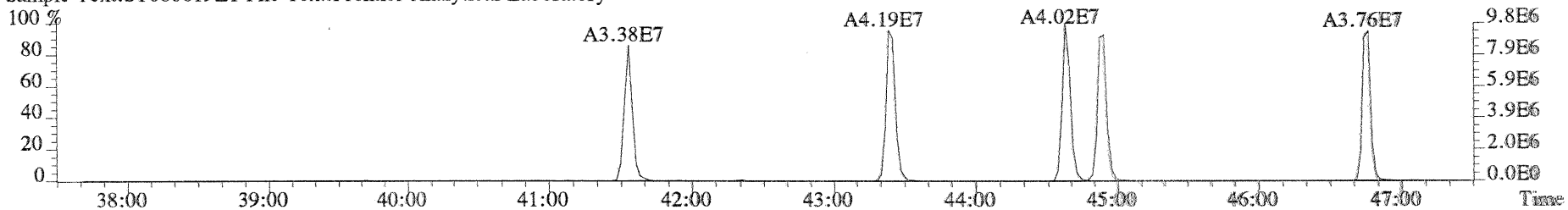
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



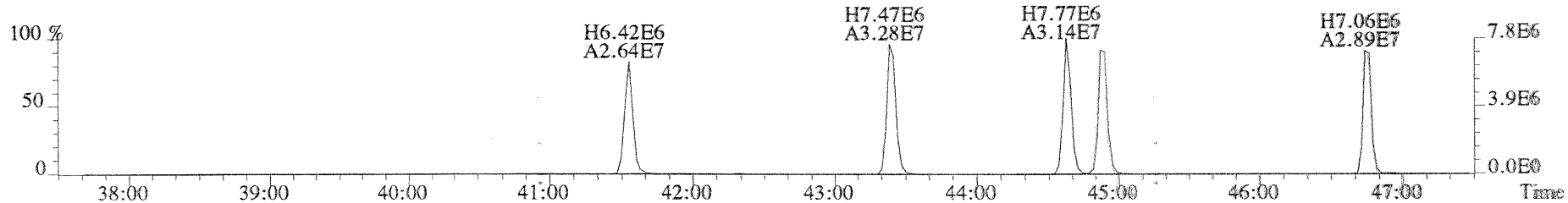
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



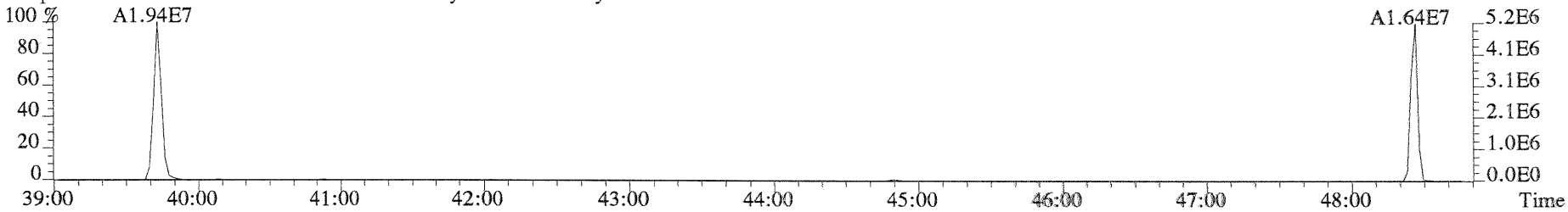
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



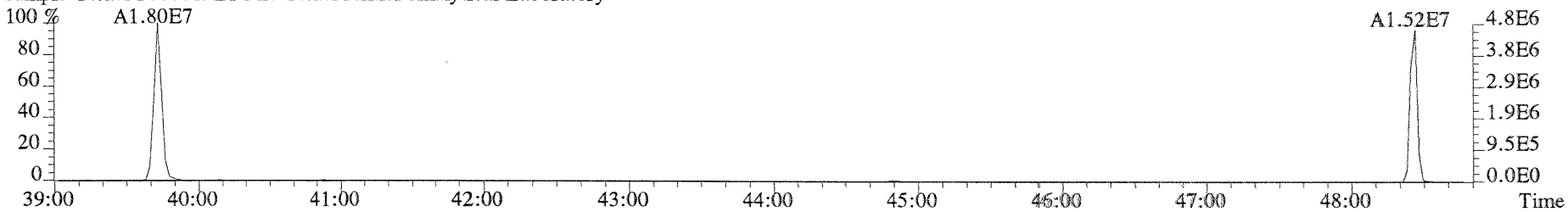
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



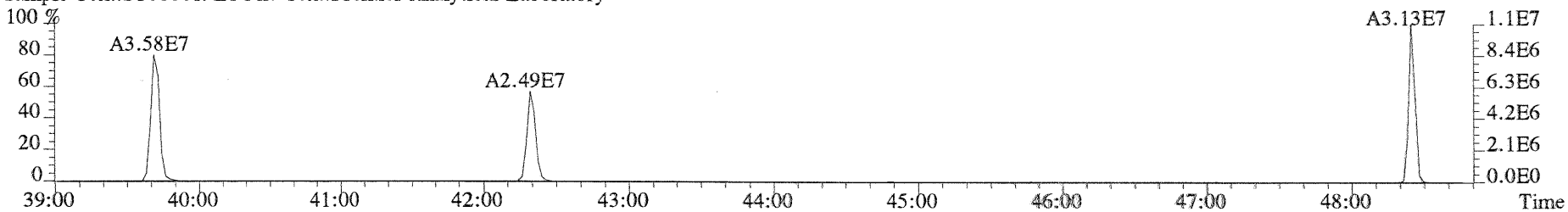
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



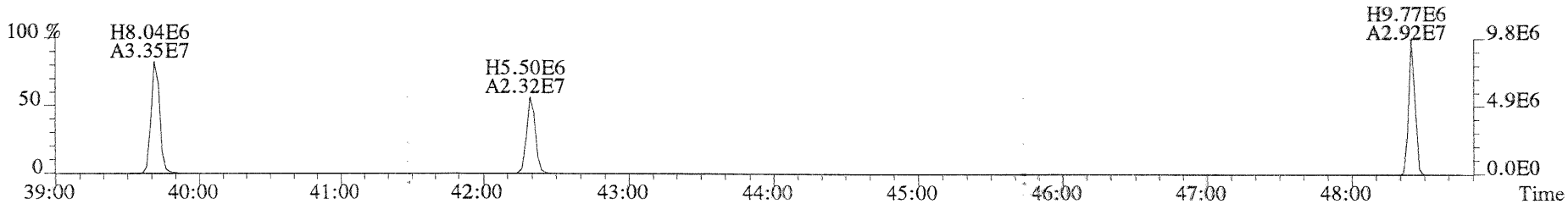
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



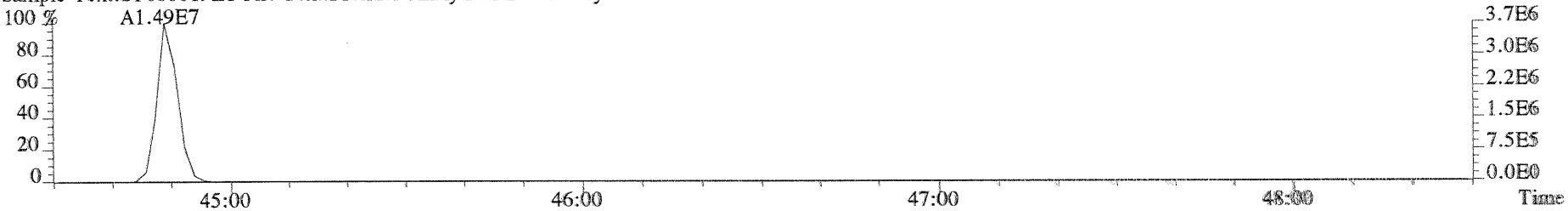
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



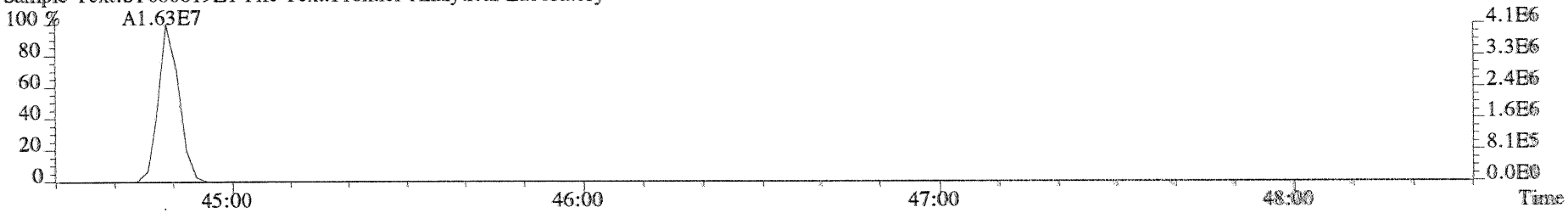
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



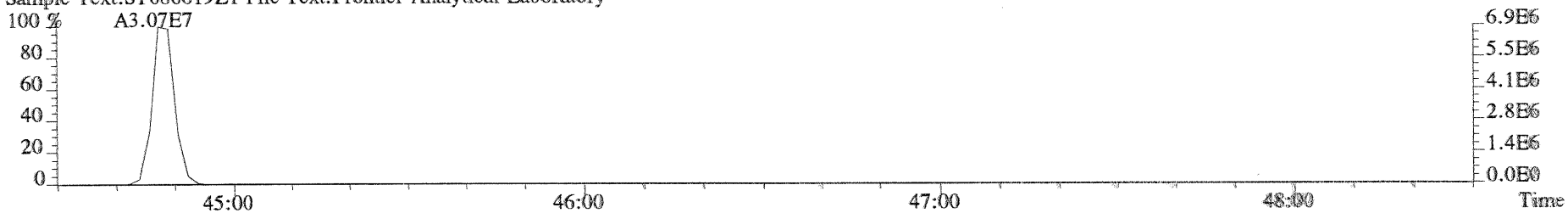
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



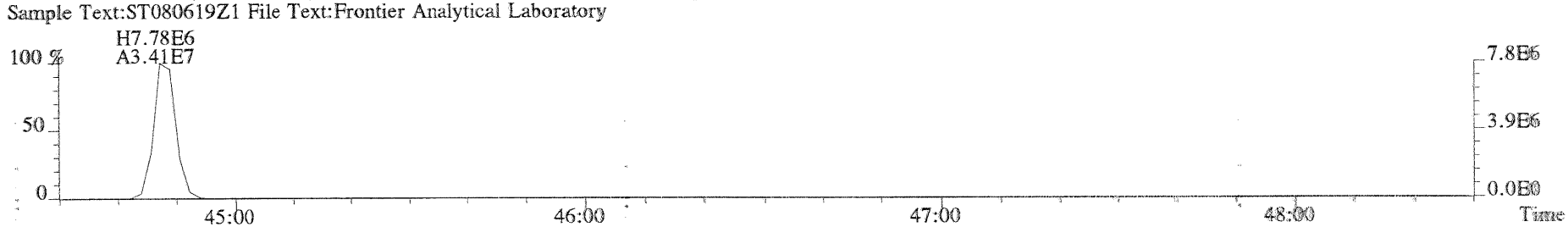
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



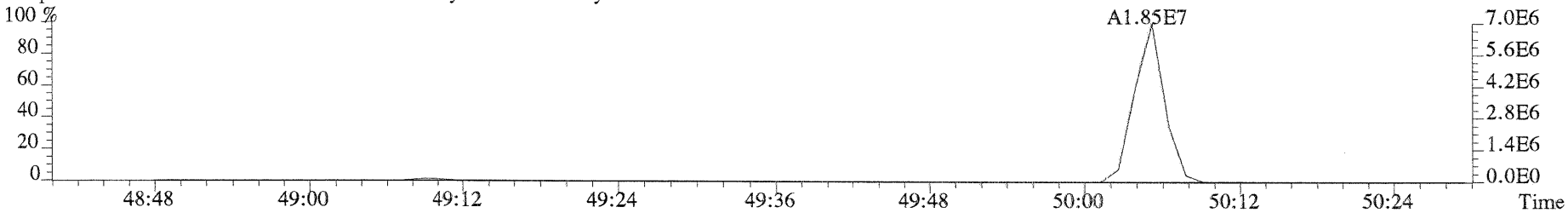
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



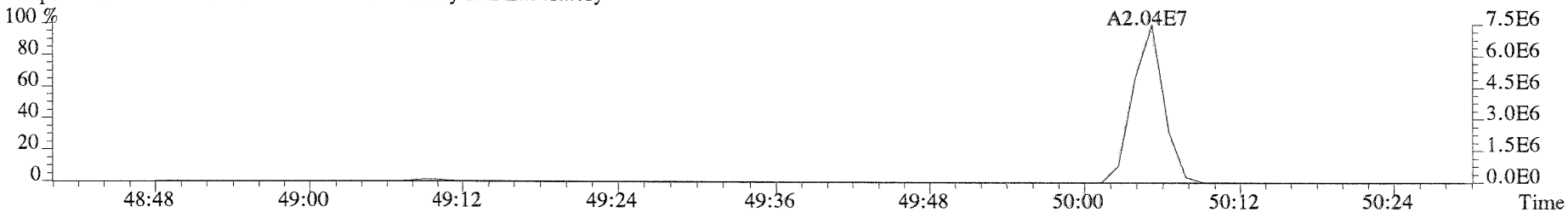
File:06AUG19Z #1-405 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



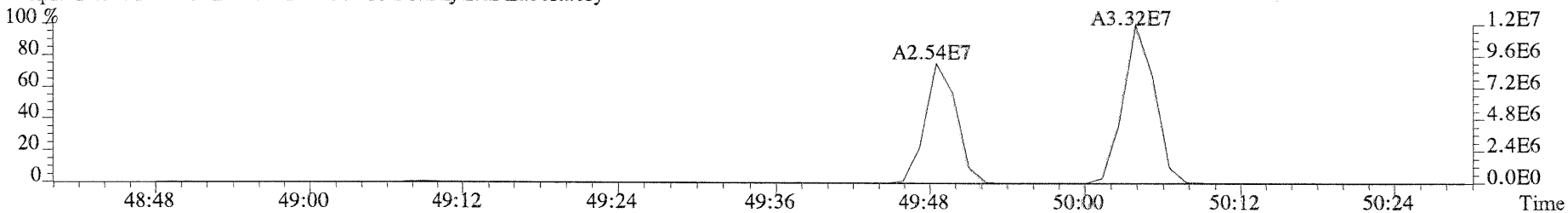
File:06AUG19Z #1-287 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



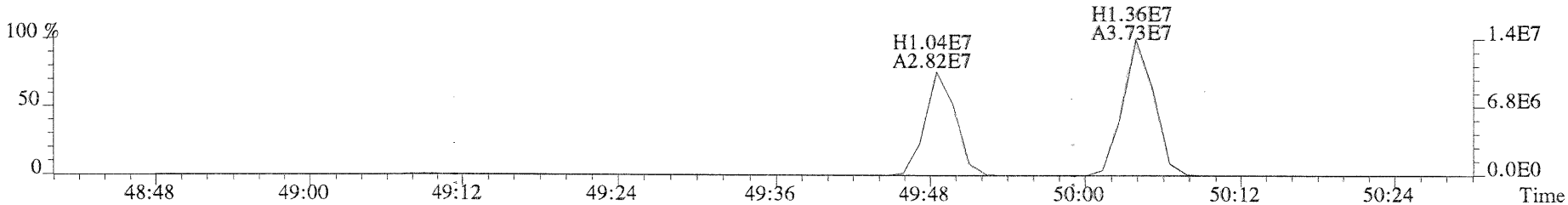
File:06AUG19Z #1-287 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



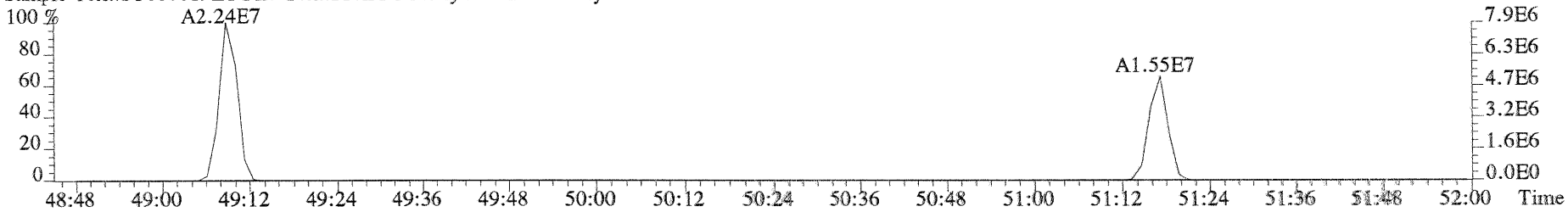
File:06AUG19Z #1-287 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



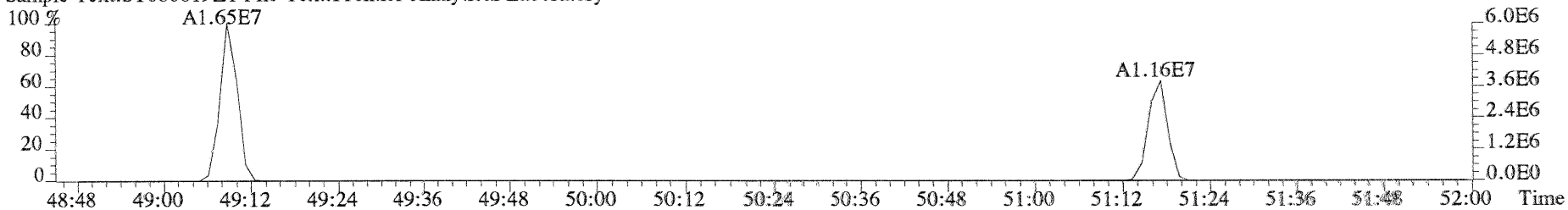
File:06AUG19Z #1-287 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



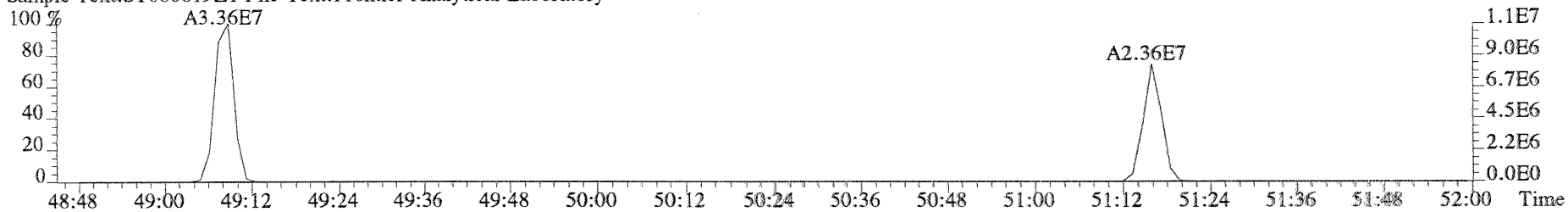
File:06AUG19Z #1-288 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



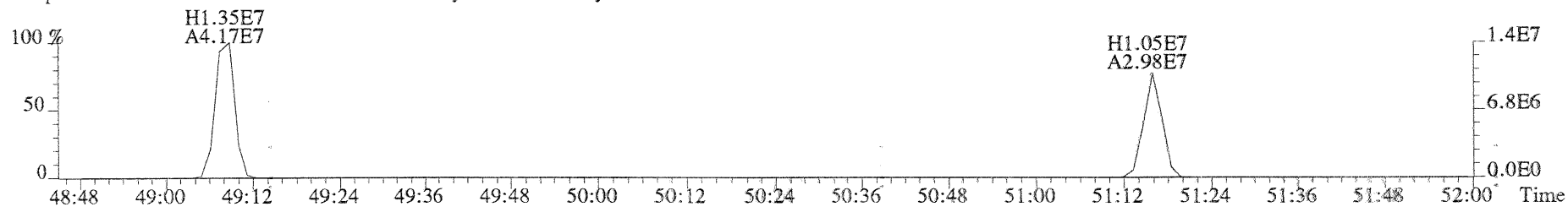
File:06AUG19Z #1-288 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



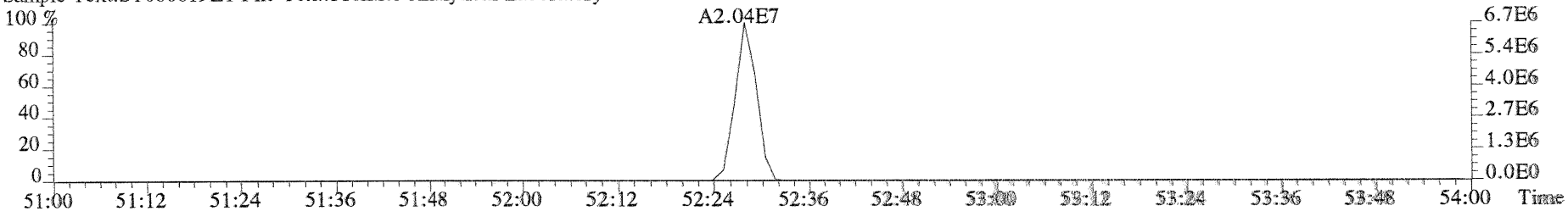
File:06AUG19Z #1-288 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



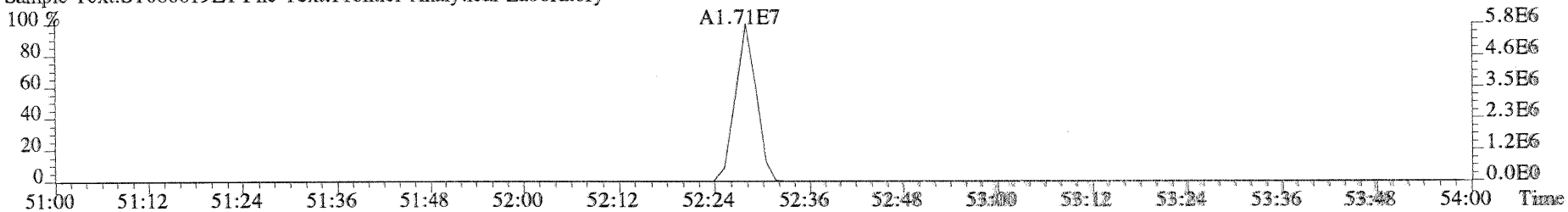
File:06AUG19Z #1-288 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



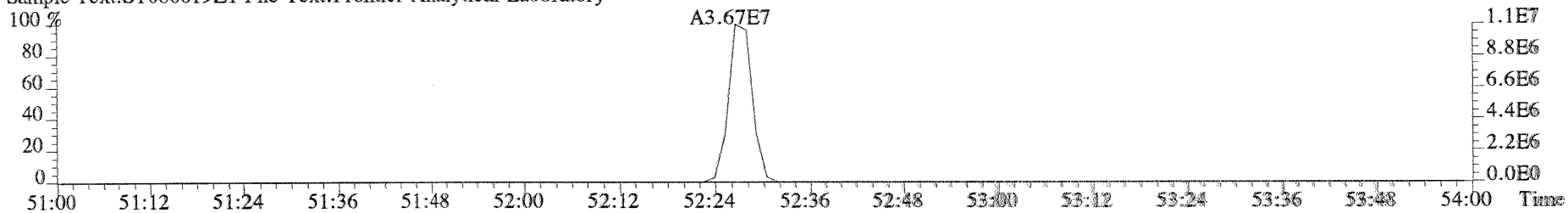
File:06AUG19Z #1-289 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



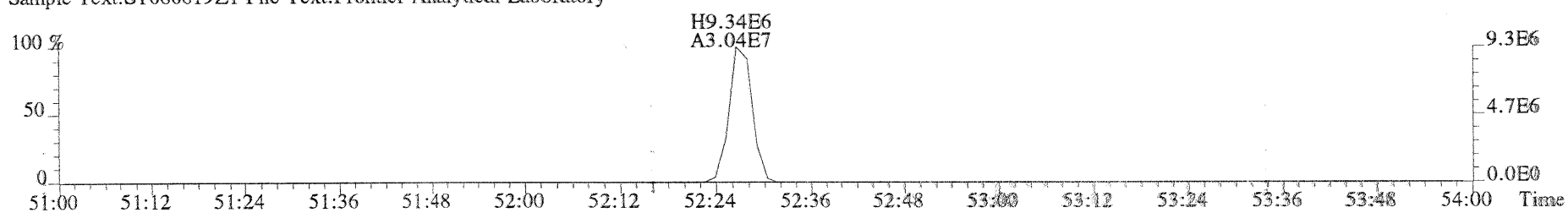
File:06AUG19Z #1-289 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory



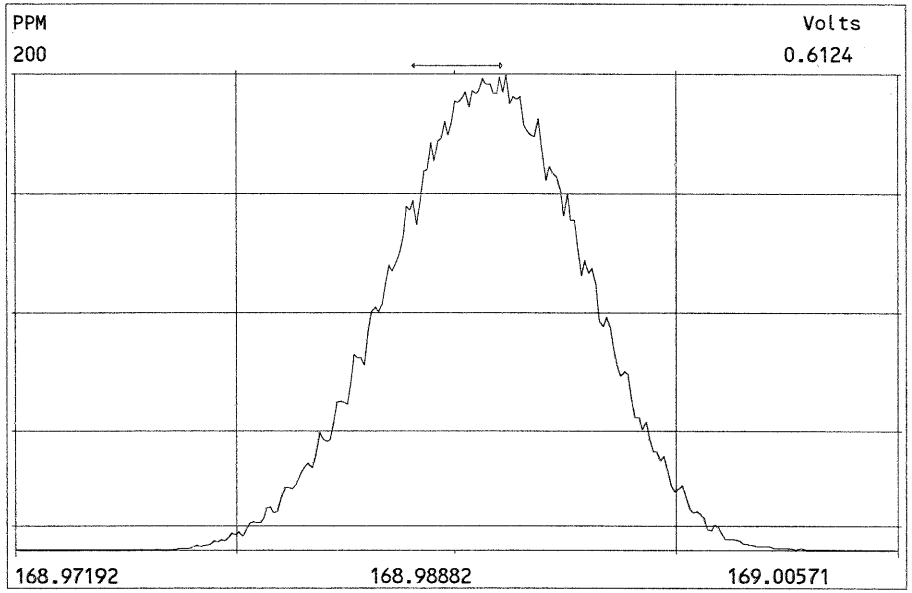
File:06AUG19Z #1-289 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory

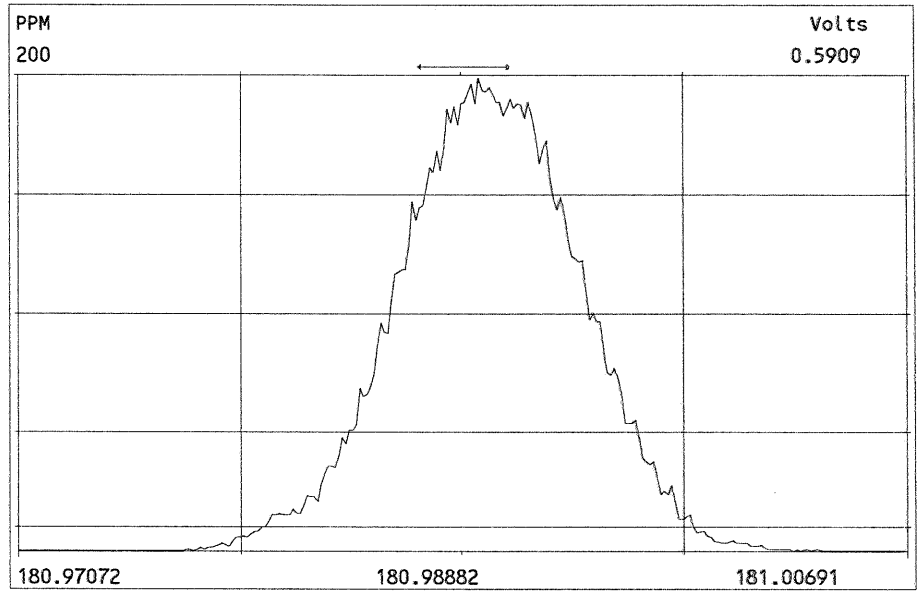


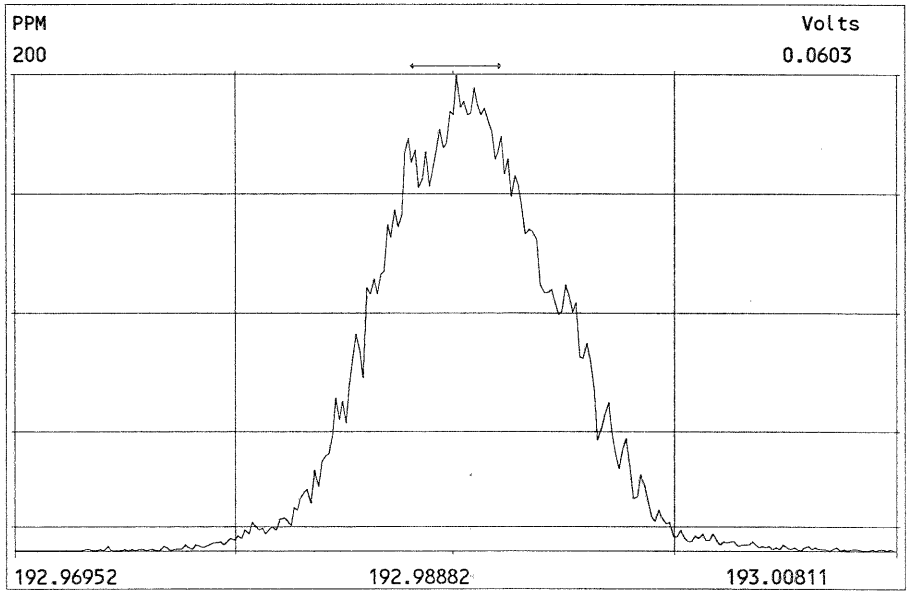
File:06AUG19Z #1-289 Acq: 6-AUG-2019 08:16:44 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z1 File Text:Frontier Analytical Laboratory

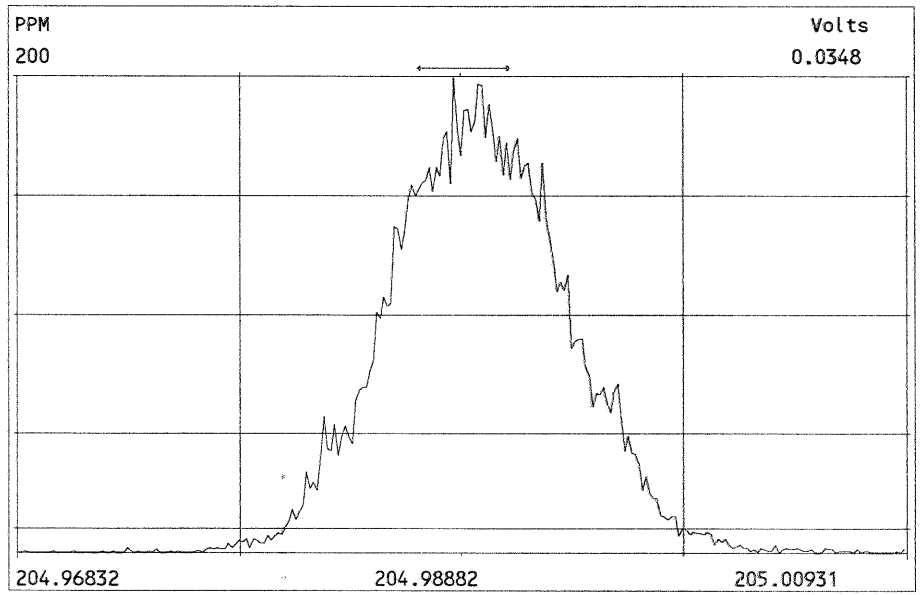


Peak Locate Examination: 7-AUG-2019:00:21 File:06AUG19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

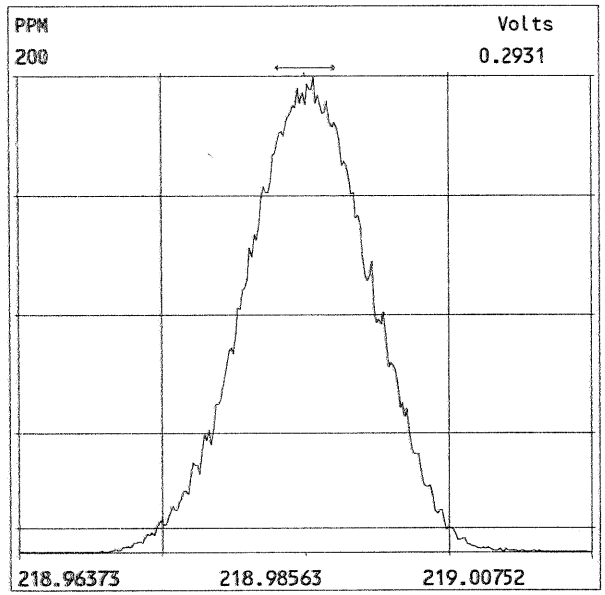


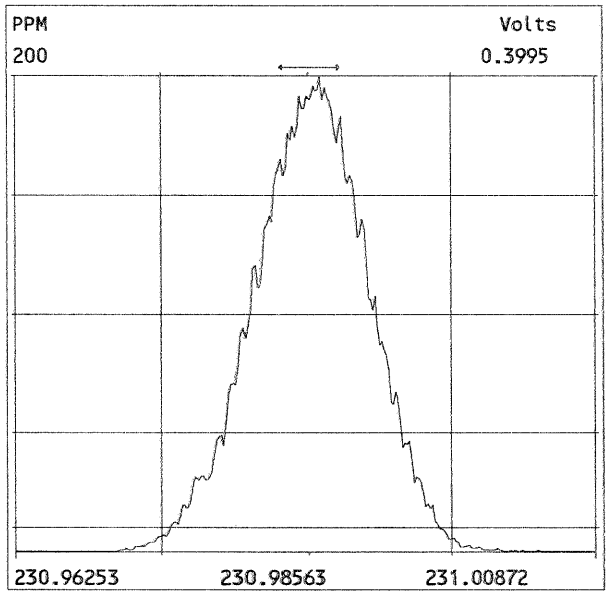


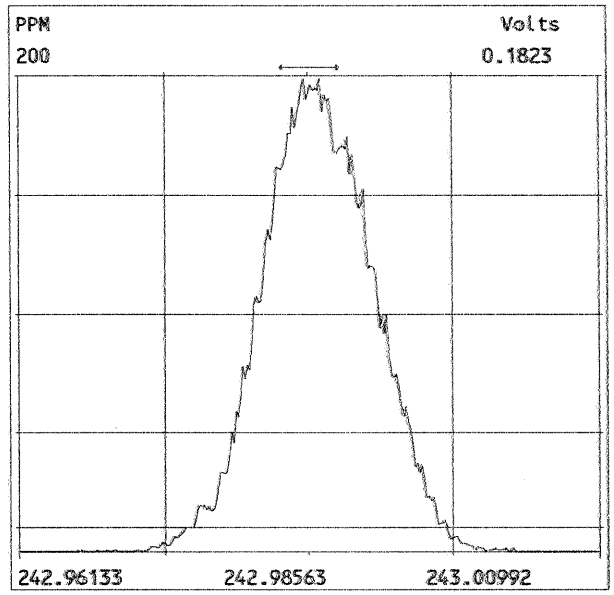


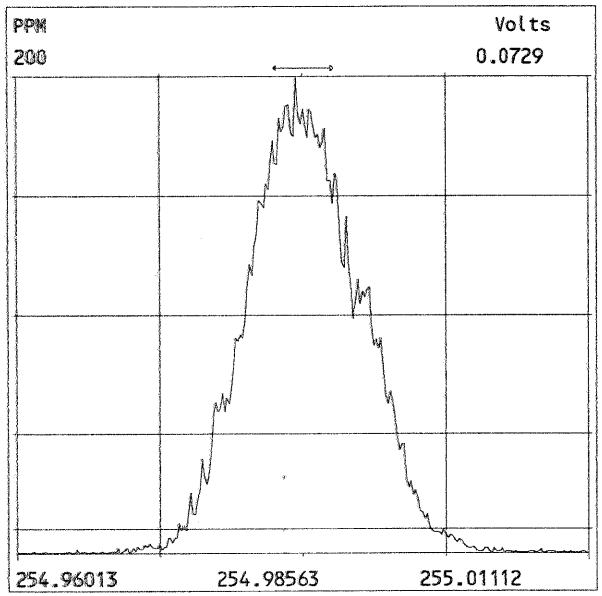


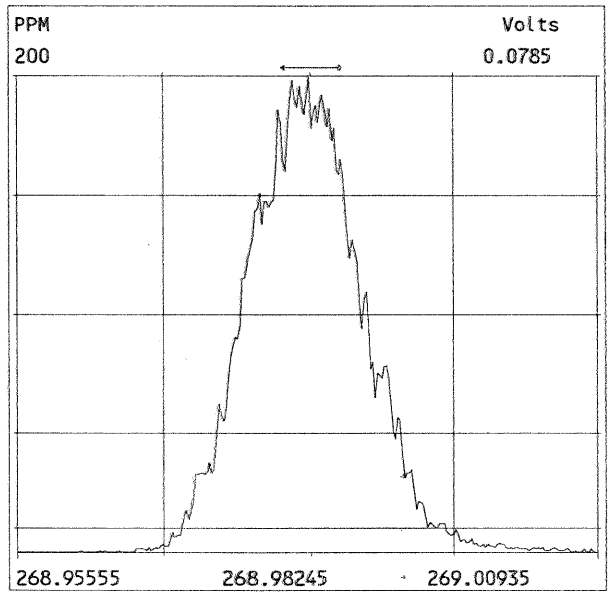
Peak Locate Examination: 7-AUG-2019:00:24 File:06AUG19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

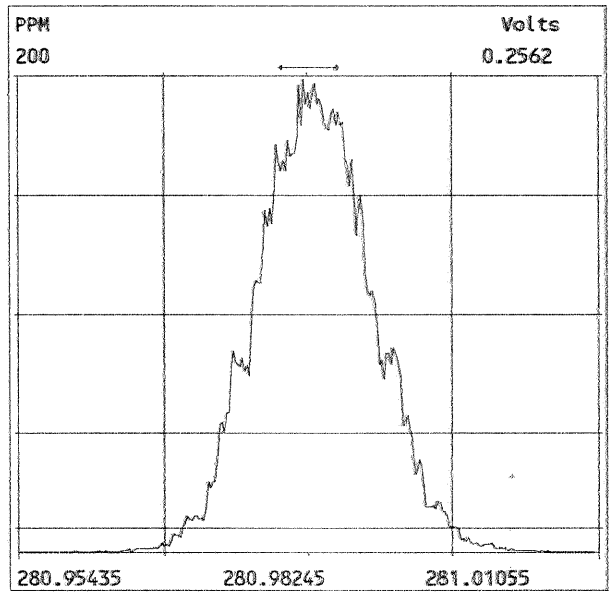




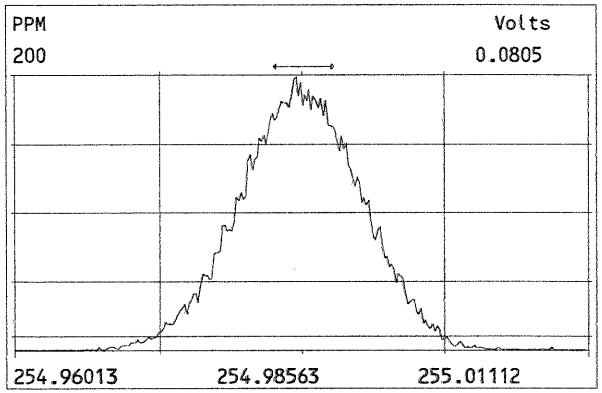


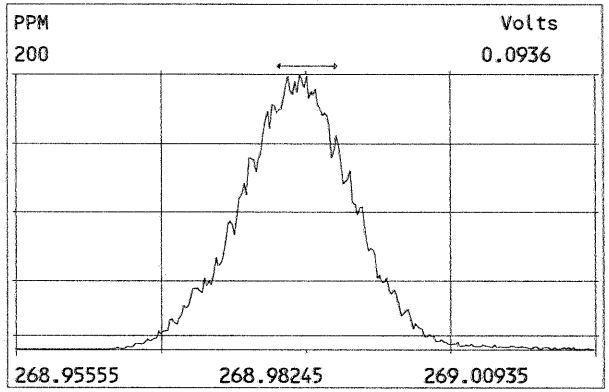


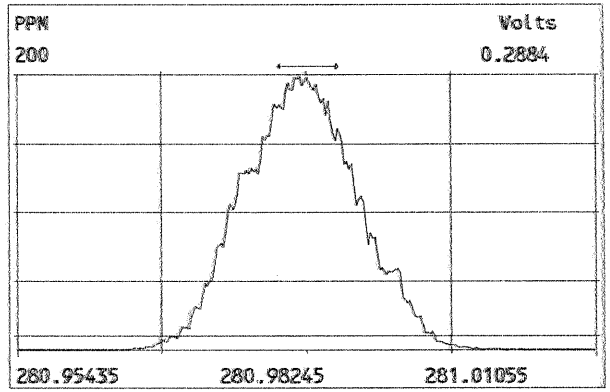


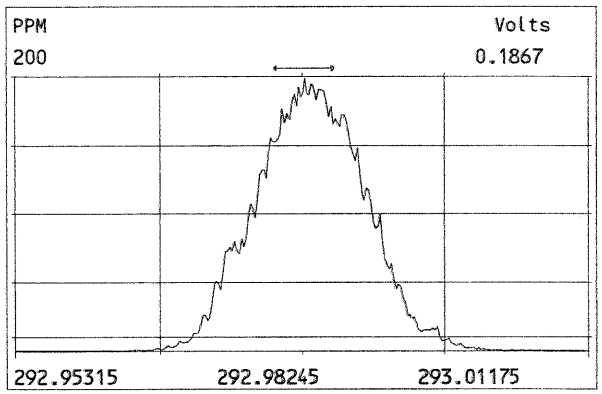


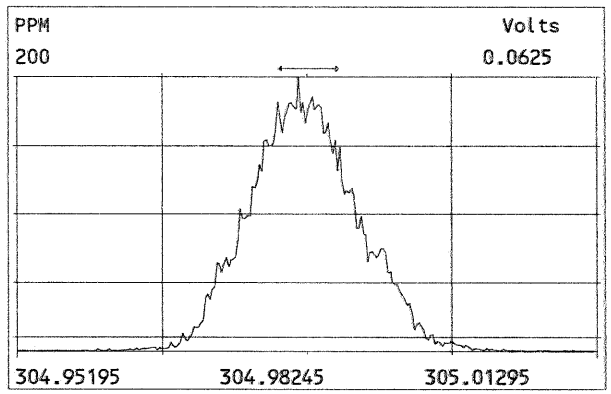
Peak Locate Examination: 7-AUG-2019:00:26 File:06AUG19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

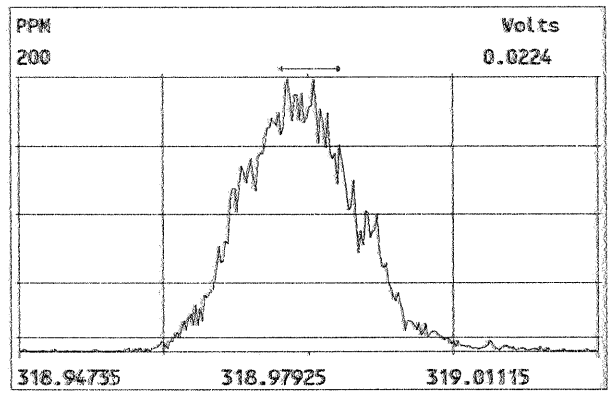


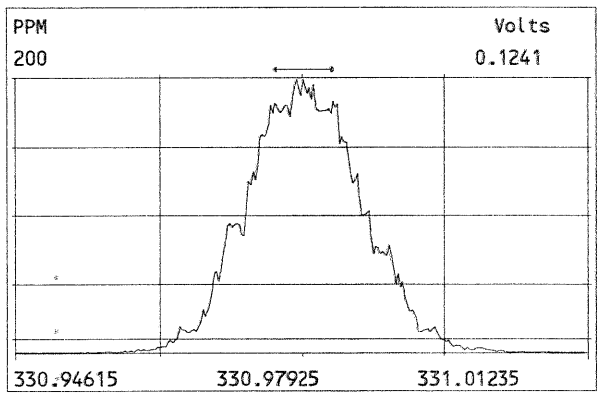


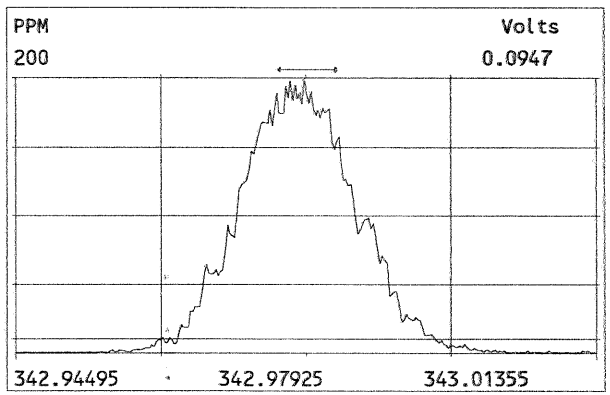




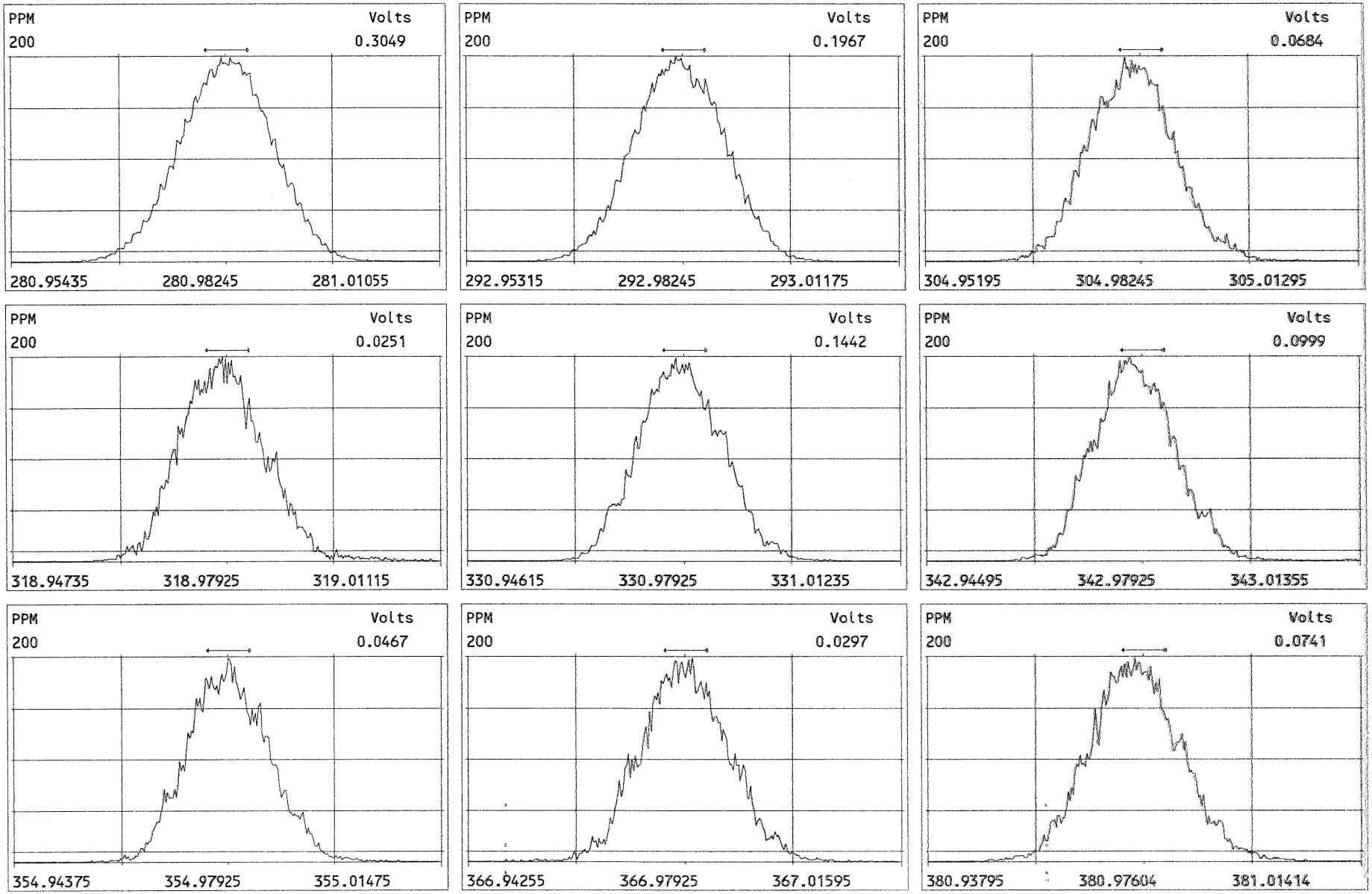




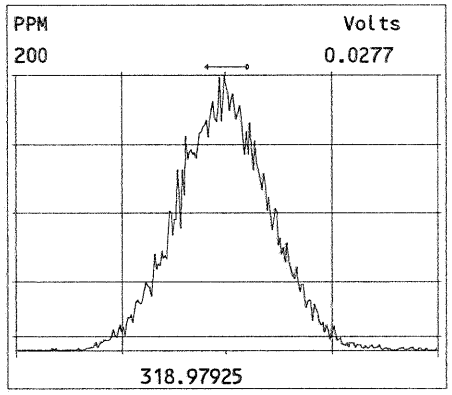


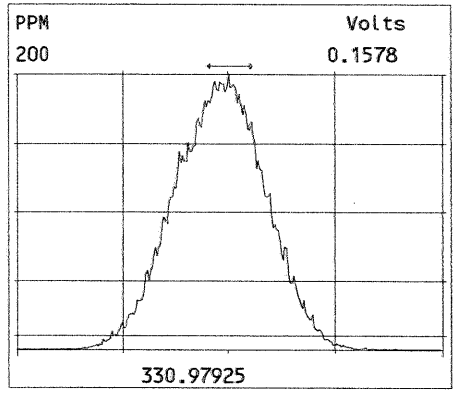


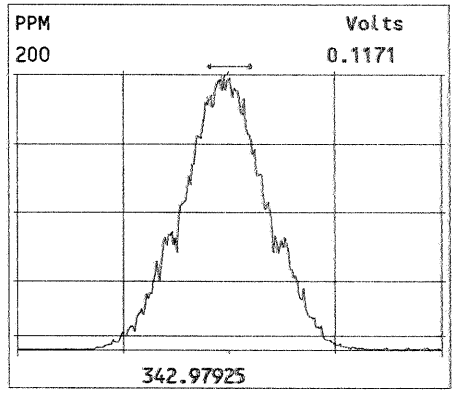
Peak Locate Examination: 7-AUG-2019:00:28 File:06AUG19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

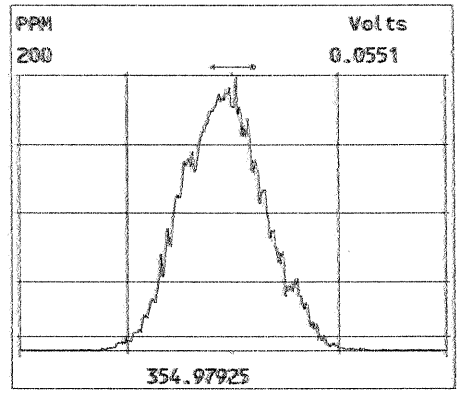


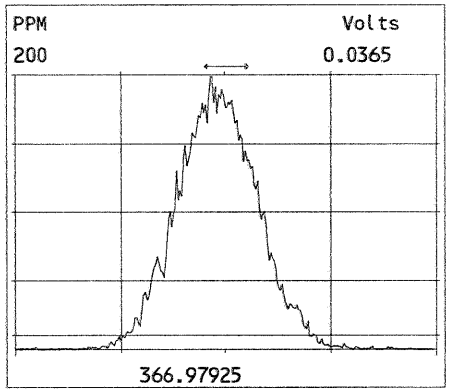
Peak Locate Examination: 7-AUG-2019:00:31 File:06AUG19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

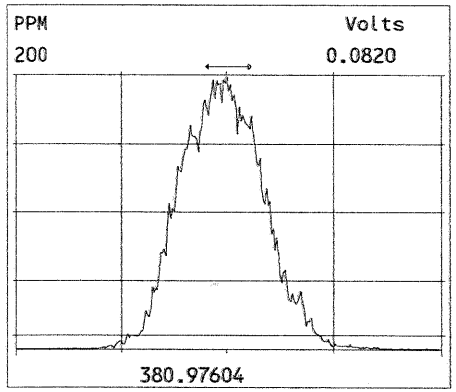


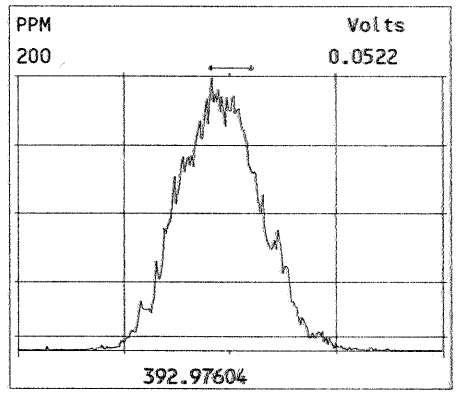


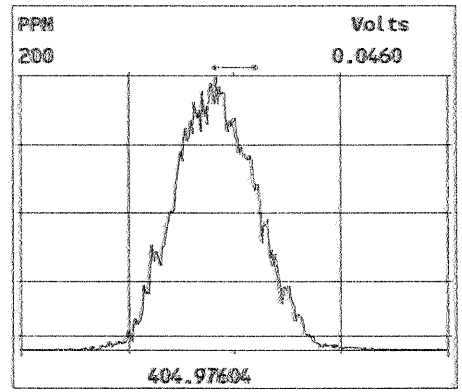


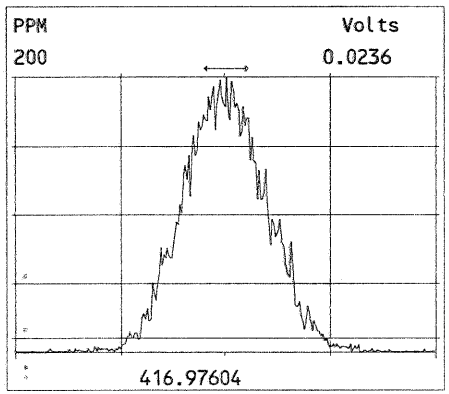


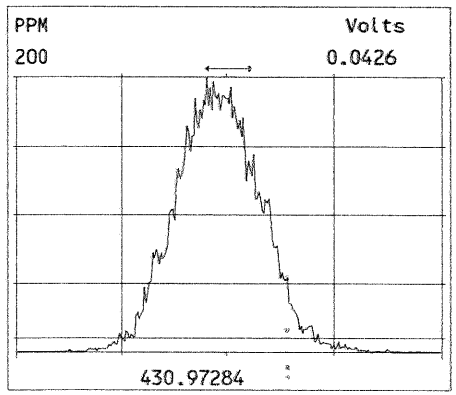


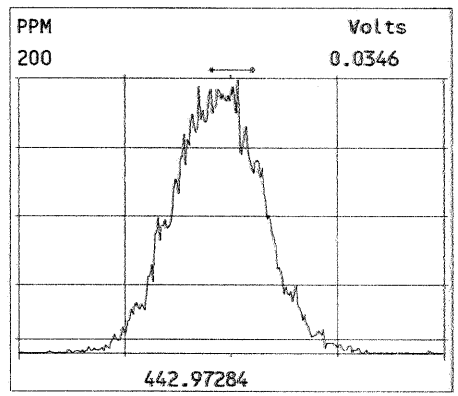




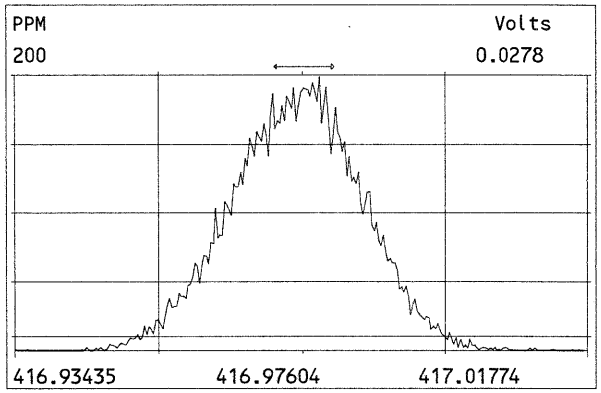


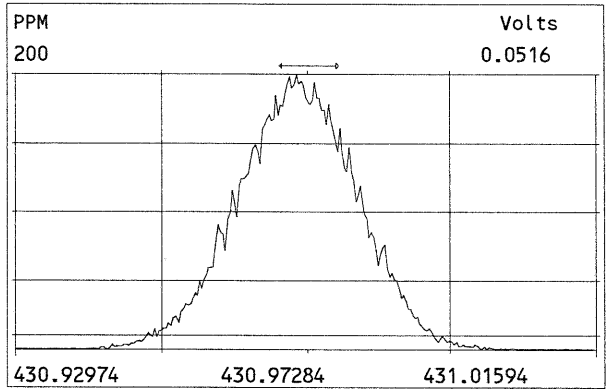


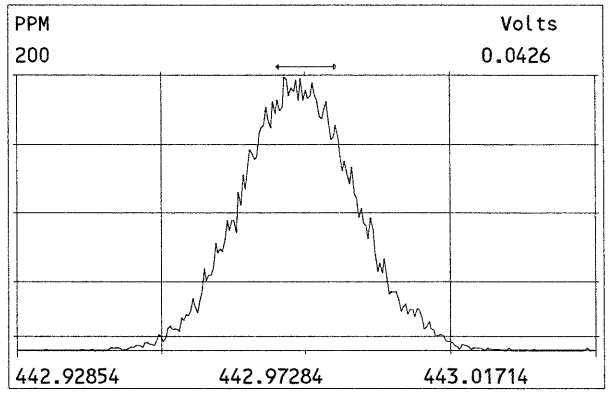


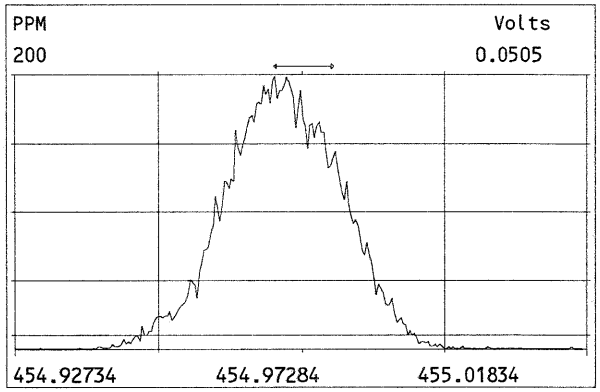


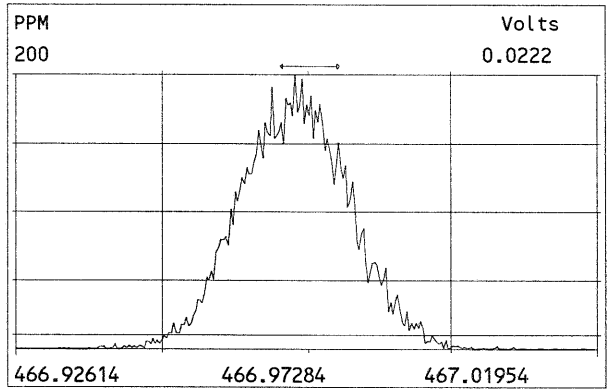
Peak Locate Examination: 7-AUG-2019:00:33 File:06AUG19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

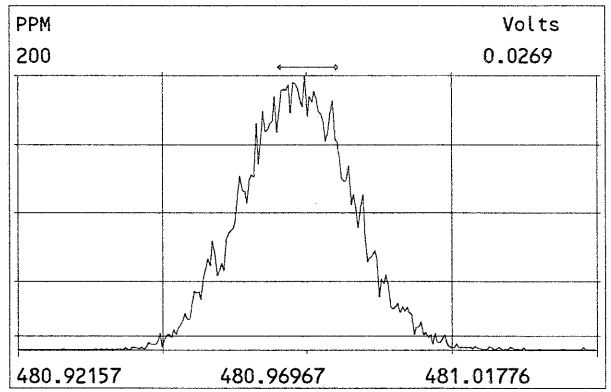


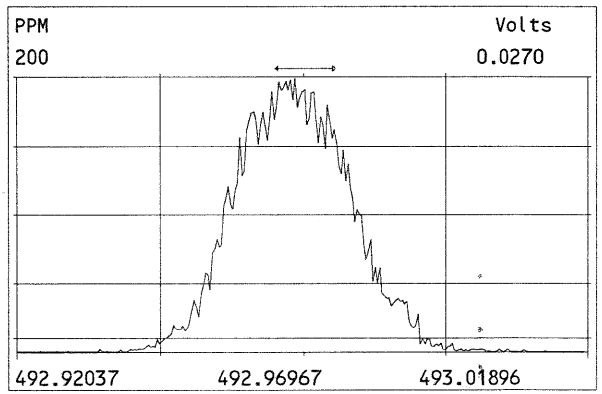


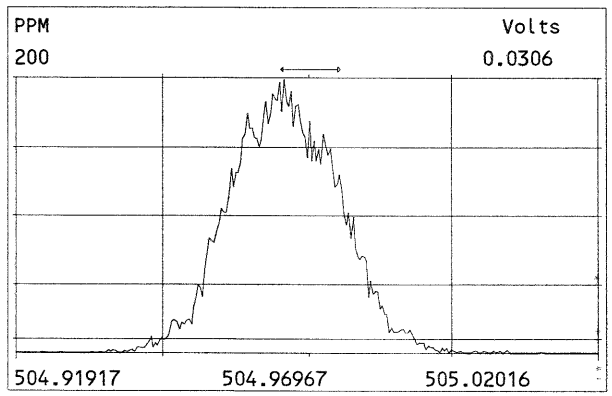


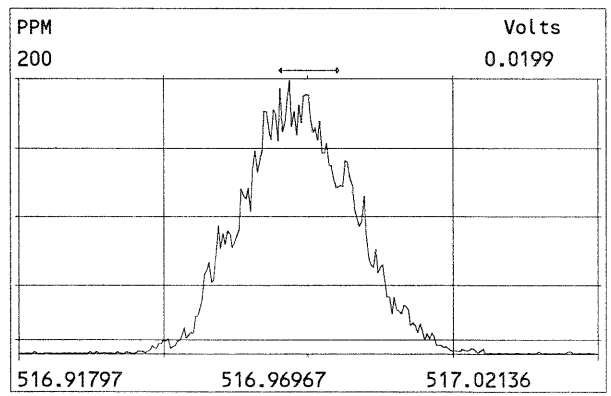












Cal: DAILY209FAL4-8-6-19

Run: 06AUG19Z Analyte: Results: 12512 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:06AUG19Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.1579	-	1.16	
13C-PCB-1	0.9030	-	0.90	
PCB-2	1.1761	-	1.18	
PCB-3	1.1735	-	1.17	
13C-PCB-3	0.8925	-	0.89	
PCB-4	1.2128	-	1.21	
PCB-10	1.3122	-	1.31	
13C-PCB-4	0.6680	-	0.67	
PCB-9	1.4463	-	1.45	
PCB-7	1.4516	-	1.45	
PCB-6	1.4792	-	1.48	
PCB-8	1.3967	-	1.40	
PCB-5	1.3967	-	1.40	
PCB-14	1.2894	-	1.29	
PCB-11	1.1793	-	1.18	
PCB-13	1.1725	-	1.17	
PCB-12	1.2360	-	1.24	
PCB-15	1.1037	-	1.10	
13C-PCB-15	0.8867	-	0.89	
PCB-19	1.1843	-	1.18	
PCB-30	1.7141	-	1.71	
PCB-18	1.1181	-	1.12	
PCB-17	1.2395	-	1.24	
PCB-27	1.6335	-	1.63	
PCB-24	1.5575	-	1.56	
PCB-16	1.3146	-	1.31	
PCB-32	1.4256	-	1.43	
13C-PCB-19	0.5019	-	0.50	
13C-PCB-9	-	-	-	
PCB-34	1.2934	-	1.29	
PCB-23	1.3066	-	1.31	
PCB-29	1.2578	-	1.26	
PCB-26	1.2945	-	1.29	
PCB-25	1.2783	-	1.28	
PCB-31	1.2835	-	1.28	
PCB-28	1.5174	-	1.52	
PCB-20	1.2583	-	1.26	Co-elute PCB 21/33
PCB-21	1.2583	-	1.26	Co-elute PCB 20/33
PCB-33	1.2583	-	1.26	Co-elute PCB 20/21
PCB-22	1.3319	-	1.33	
PCB-36	1.2125	-	1.21	
PCB-39	1.2006	-	1.20	
PCB-38	1.1998	-	1.20	
PCB-35	1.0974	-	1.10	
PCB-37	1.1518	-	1.15	
13C-PCB-37	1.4135	-	1.41	

PCB-54	1.1529	-	1.15	
PCB-50	0.9256	-	0.93	
PCB-53	0.9082	-	0.91	
PCB-51	0.9130	-	0.91	
PCB-45	0.7698	-	0.77	
PCB-46	0.7294	-	0.73	
PCB-52	0.8717	-	0.87	Co-elute PCB 69
PCB-69	0.8717	-	0.87	Co-elute PCB 52
PCB-73	1.1432	-	1.14	
PCB-43	0.7826	-	0.78	Co-elute PCB 49
PCB-49	0.7826	-	0.78	Co-elute PCB 43
PCB-47	0.8126	-	0.81	
PCB-48	0.9884	-	0.99	Co-elute PCB 75
PCB-75	0.9884	-	0.99	Co-elute PCB 48
PCB-65	0.9854	-	0.99	
PCB-62	1.0800	-	1.08	
PCB-44	0.6780	-	0.68	
PCB-42	0.8700	-	0.87	Co-elute PCB 59
PCB-59	0.8700	-	0.87	Co-elute PCB 42
PCB-72	0.9577	-	0.96	Co-elute PCB 41/71/64
PCB-41	0.9577	-	0.96	Co-elute PCB 72/71/64
PCB-71	0.9577	-	0.96	Co-elute PCB 72/41/64
PCB-64	0.9577	-	0.96	Co-elute PCB 72/41/71
PCB-68	1.0926	-	1.09	
PCB-40	0.6073	-	0.61	
PCB-57	0.9567	-	0.96	
PCB-67	0.9845	-	0.98	
PCB-58	0.9817	-	0.98	
PCB-63	0.9629	-	0.96	
PCB-74	0.9640	-	0.96	
PCB-61	0.9232	-	0.92	Co-elute PCB 70
PCB-70	0.9232	-	0.92	Co-elute PCB 61
PCB-76	1.0029	-	1.00	Co-elute PCB 66
PCB-66	1.0029	-	1.00	Co-elute PCB 76
PCB-80	1.1558	-	1.16	
PCB-55	1.0060	-	1.01	
13C-PCB-54	1.3080	-	1.31	
PCB-104	1.0900	-	1.09	
PCB-96	1.0100	-	1.01	
PCB-103	0.7958	-	0.80	
PCB-100	0.7945	-	0.79	
PCB-94	0.6497	-	0.65	
PCB-98	0.7035	-	0.70	Co-elute PCB 102
PCB-102	0.7035	-	0.70	Co-elute PCB 98
PCB-95	0.6821	-	0.68	
PCB-93	0.6514	-	0.65	
PCB-88	0.7335	-	0.73	Co-elute PCB 91
PCB-91	0.7335	-	0.73	Co-elute PCB 88
PCB-121	0.8919	-	0.89	
13C-PCB-104	1.0490	-	1.05	
13C-PCB-28	1.8150	-	1.82	
13C-PCB-52	-	-	-	

PCB-56	1.1227	-	1.12	Co-elute PCB 60
PCB-60	1.1227	-	1.12	Co-elute PCB 56
PCB-79	1.1407	-	1.14	
PCB-78	1.1113	-	1.11	
PCB-81	1.2131	-	1.21	
13C-PCB-81	1.5291	-	1.53	
PCB-77	1.0419	-	1.04	
13C-PCB-77	1.5849	-	1.58	
PCB-155	1.0308	-	1.03	
PCB-150	0.9873	-	0.99	
PCB-152	0.9697	-	0.97	
PCB-145	1.0056	-	1.01	
PCB-136	0.9555	-	0.96	
PCB-148	0.7158	-	0.72	
PCB-154	0.7875	-	0.79	
13C-PCB-155	1.3220	-	1.32	
13C-PCB-111	1.2184	-	1.22	
13C-PCB-101	-	-	-	
PCB-84	0.7507	-	0.75	Co-elute PCB 92
PCB-92	0.7507	-	0.75	Co-elute PCB 84
PCB-89	0.7793	-	0.78	
PCB-90	0.8751	-	0.88	Co-elute PCB 101
PCB-101	0.8751	-	0.88	Co-elute PCB 90
PCB-113	0.9413	-	0.94	
PCB-99	0.9977	-	1.00	
PCB-119	1.0967	-	1.10	
PCB-83	0.8668	-	0.87	Co-elute PCB 112
PCB-112	0.8668	-	0.87	Co-elute PCB 83
PCB-109	1.0555	-	1.06	
PCB-97	0.7322	-	0.73	
PCB-86	0.7338	-	0.73	
PCB-125	0.9719	-	0.97	Co-elute PCB 87/117
PCB-87	0.9719	-	0.97	Co-elute PCB 125/117
PCB-117	0.9719	-	0.97	Co-elute PCB 125/87
PCB-111	1.1664	-	1.17	Co-elute PCB 115
PCB-115	1.1664	-	1.17	Co-elute PCB 111
PCB-85	0.9022	-	0.90	Co-elute PCB 116
PCB-116	0.9022	-	0.90	Co-elute PCB 85
PCB-120	1.1283	-	1.13	
PCB-110	1.0907	-	1.09	
PCB-82	0.6284	-	0.63	
PCB-124	1.0557	-	1.06	
PCB-108	1.0931	-	1.09	Co-elute PCB 107
PCB-107	1.0931	-	1.09	Co-elute PCB 108
PCB-123	1.0517	-	1.05	
13C-PCB-123	1.2662	-	1.27	
PCB-118	1.0483	-	1.05	Co-elute PCB 106
PCB-106	1.0483	-	1.05	Co-elute PCB 118
13C-PCB-118	1.4418	-	1.44	
PCB-114	1.1141	-	1.11	
13C-PCB-114	1.3531	-	1.35	
PCB-122	1.0905	-	1.09	
PCB-105	1.1376	-	1.14	
13C-PCB-105	1.3688	-	1.37	
PCB-127	1.0370	-	1.04	
PCB-126	1.0917	-	1.09	
13C-PCB-126	1.2574	-	1.26	

PCB-151	0.8381	-	0.84	
PCB-135	0.8834	-	0.88	
PCB-144	0.8885	-	0.89	
PCB-147	0.9719	-	0.97	
PCB-139	0.9807	-	0.98	Co-elute PCB 149
PCB-149	0.9807	-	0.98	Co-elute PCB 139
PCB-140	0.9619	-	0.96	
PCB-143	0.7901	-	0.79	Co-elute PCB 134
PCB-134	0.7901	-	0.79	Co-elute PCB 143
PCB-131	0.7874	-	0.79	Co-elute PCB 133
PCB-133	0.7874	-	0.79	Co-elute PCB 131
PCB-142	0.8224	-	0.82	
PCB-165	1.0872	-	1.09	Co-elute PCB 146
PCB-146	1.0872	-	1.09	Co-elute PCB 165
PCB-161	1.0449	-	1.04	Co-elute PCB 132
PCB-132	1.0449	-	1.04	Co-elute PCB 161
PCB-153	1.0312	-	1.03	
PCB-168	1.2263	-	1.23	
PCB-141	0.8859	-	0.89	
PCB-137	0.8928	-	0.89	
PCB-130	0.7347	-	0.73	
PCB-138	1.0818	-	1.08	Co-elute PCB 163/164
PCB-163	1.0818	-	1.08	Co-elute PCB 138/164
PCB-164	1.0818	-	1.08	Co-elute PCB 138/163
PCB-158	1.2047	-	1.20	Co-elute PCB 160
PCB-160	1.2047	-	1.20	Co-elute PCB 158
PCB-129	0.7555	-	0.76	
PCB-166	1.1179	-	1.12	
PCB-159	1.2183	-	1.22	
PCB-128	0.9924	-	0.99	Co-elute PCB 162
PCB-162	0.9924	-	0.99	Co-elute PCB 128
PCB-167	1.1038	-	1.10	
13C-PCB-167	1.1760	-	1.18	
PCB-156	1.1800	-	1.18	
13C-PCB-156	1.1501	-	1.15	
PCB-157	1.1162	-	1.12	
13C-PCB-157	1.1753	-	1.18	
PCB-169	1.0785	-	1.08	
13C-PCB-169	1.0568	-	1.06	
PCB-188	1.0191	-	1.02	
13C-PCB-188	1.1891	-	1.19	

PCB-184	1.1521	-	1.15	
PCB-179	1.0872	-	1.09	
PCB-176	1.0474	-	1.05	
PCB-186	1.0780	-	1.08	
PCB-178	0.7023	-	0.70	
PCB-175	0.7593	-	0.76	
PCB-187	0.8433	-	0.84	Co-elute PCB 182
PCB-182	0.8433	-	0.84	Co-elute PCB 187
PCB-183	0.8111	-	0.81	
PCB-185	0.7394	-	0.74	
PCB-174	0.7352	-	0.74	
PCB-181	0.7975	-	0.80	
PCB-177	0.6951	-	0.70	
PCB-171	0.7557	-	0.76	
PCB-173	0.6621	-	0.66	
PCB-172	0.6690	-	0.67	
PCB-192	0.9126	-	0.91	
PCB-180	0.6914	-	0.69	
PCB-193	0.9810	-	0.98	
PCB-191	0.9614	-	0.96	
PCB-170	0.6860	-	0.69	
PCB-190	0.9273	-	0.93	
PCB-189	0.9840	-	0.98	
13C-PCB-189	1.0061	-	1.01	
PCB-202	1.0018	-	1.00	
PCB-201	1.0319	-	1.03	
PCB-204	1.0248	-	1.02	
PCB-197	1.0899	-	1.09	
PCB-200	1.0671	-	1.07	
PCB-198	0.6918	-	0.69	
PCB-199	0.7690	-	0.77	
PCB-203	0.8291	-	0.83	Co-elute PCB 196
PCB-196	0.8291	-	0.83	Co-elute PCB 203
13C-PCB-202	0.9620	-	0.96	
13C-PCB-178	0.7697	-	0.77	
13C-PCB-138	-	-	-	
PCB-195	0.8059	-	0.81	
PCB-194	0.8922	-	0.89	
PCB-205	1.1076	-	1.11	
13C-PCB-205	1.2580	-	1.26	
PCB-208	1.0072	-	1.01	
13C-PCB-208	1.3522	-	1.35	
PCB-207	1.1287	-	1.13	
PCB-206	1.0356	-	1.04	
13C-PCB-206	0.9284	-	0.93	
PCB-209	1.0952	-	1.10	
13C-PCB-209	1.1877	-	1.19	
13C-PCB-194	-	-	-	

Analyst: [illegible] Date: 8/7/19

Run #1 Filename 06AUG19Z S: 2 Acquired: 6-AUG-19 09:15:04 Cal: DAILY209FAL4-8-6-19
Client ID: SS080619Z1 Analyte: FAL ID: Daily 209 190408A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	1.15e+08	3.15 y	14:33	-	1.16	
2	IS/RT	13C-PCB-1	100.00	1.98e+08	3.26 y	14:32	-	0.903	
3	Unk	PCB-2	50.00	1.16e+08	3.17 y	16:45	-	1.18	
4	Unk	PCB-3	50.00	1.15e+08	3.13 y	16:59	-	1.17	
5	IS/RT	13C-PCB-3	100.00	1.96e+08	3.23 y	16:58	-	0.892	
6	Unk	PCB-4	50.00	8.89e+07	1.53 y	18:13	-	1.21	
7	Unk	PCB-10	50.00	1.12e+08	1.56 y	18:16	-	1.31	
8	IS/RT	13C-PCB-4	100.00	1.47e+08	1.58 y	18:12	-	0.668	
9	Unk	PCB-9	50.00	1.23e+08	1.51 y	19:55	-	1.45	
10	Unk	PCB-7	50.00	1.24e+08	1.52 y	19:56	-	1.45	
11	Unk	PCB-6	50.00	1.26e+08	1.56 y	20:31	-	1.48	
12	Unk	PCB-8	50.00	1.19e+08	1.58 y	20:55	-	1.40	
13	Unk	PCB-5	50.00	1.19e+08	1.58 y	20:55	-	1.40	
14	Unk	PCB-14	50.00	1.10e+08	1.54 y	21:57	-	1.29	
15	Unk	PCB-11	50.00	1.01e+08	1.58 y	23:04	-	1.18	
16	Unk	PCB-13	50.00	1.00e+08	1.54 y	23:25	-	1.17	
17	Unk	PCB-12	50.00	1.05e+08	1.56 y	23:27	-	1.24	
18	Unk	PCB-15	50.00	1.07e+08	1.51 y	23:44	-	1.10	
19	IS/RT	13C-PCB-15	100.00	1.95e+08	1.57 y	23:42	-	0.887	
20	Unk	PCB-19	50.00	6.52e+07	1.05 y	22:05	-	1.18	
21	Unk	PCB-30	50.00	9.44e+07	1.07 y	22:56	-	1.71	
22	Unk	PCB-18	50.00	6.16e+07	1.07 y	23:38	-	1.12	
23	Unk	PCB-17	50.00	6.83e+07	1.06 y	23:48	-	1.24	
24	Unk	PCB-27	50.00	9.00e+07	1.06 y	24:20	-	1.63	
25	Unk	PCB-24	50.00	8.58e+07	1.09 y	24:21	-	1.56	
26	Unk	PCB-16	50.00	7.24e+07	1.03 y	24:49	-	1.31	
27	Unk	PCB-32	50.00	7.85e+07	1.11 y	24:50	-	1.43	
28	IS/RT	13C-PCB-19	100.00	1.10e+08	1.09 y	22:04	-	0.502	
29	RS	13C-PCB-9	100.00	2.19e+08	1.59 y	19:52	2.19e+06	-	
30	Unk	PCB-34	50.00	8.64e+07	1.01 y	25:35	-	1.29	
31	Unk	PCB-23	50.00	8.73e+07	1.03 y	25:40	-	1.31	
32	Unk	PCB-29	50.00	8.40e+07	1.02 y	25:54	-	1.26	
33	Unk	PCB-26	50.00	8.65e+07	1.03 y	26:06	-	1.29	
34	Unk	PCB-25	50.00	8.54e+07	1.03 y	26:16	-	1.28	
35	Unk	PCB-31	50.00	8.58e+07	1.01 y	26:36	-	1.28	
36	Unk	PCB-28	50.00	1.01e+08	1.02 y	26:41	-	1.52	
37	Unk	PCB-20	150.00	2.52e+08	1.03 y	27:16	-	1.26	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	2.52e+08	1.03 y	27:16	-	1.26	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	2.52e+08	1.03 y	27:16	-	1.26	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	8.90e+07	1.00 y	27:42	-	1.33	
41	Unk	PCB-36	50.00	8.10e+07	1.05 y	28:16	-	1.21	
42	Unk	PCB-39	50.00	8.02e+07	1.04 y	28:44	-	1.20	
43	Unk	PCB-38	50.00	8.02e+07	1.04 y	29:28	-	1.20	
44	Unk	PCB-35	50.00	7.33e+07	1.04 y	29:57	-	1.10	
45	Unk	PCB-37	50.00	7.70e+07	1.01 y	30:22	-	1.15	
46	IS	13C-PCB-37	100.00	1.34e+08	1.07 y	30:21	-	1.41	

47	Unk	PCB-54	100.00	1.43e+08	0.82	y	25:38	-	1.15	
48	Unk	PCB-50	100.00	1.14e+08	0.82	y	26:44	-	0.926	
49	Unk	PCB-53	100.00	1.12e+08	0.81	y	27:20	-	0.908	
50	Unk	PCB-51	100.00	1.13e+08	0.83	y	27:39	-	0.913	
51	Unk	PCB-45	100.00	9.52e+07	0.82	y	28:04	-	0.770	
52	Unk	PCB-46	100.00	9.02e+07	0.81	y	28:31	-	0.729	
53	Unk	PCB-52	200.00	2.16e+08	0.80	y	28:59	-	0.872	Co-elute PCB 69
54	Unk	PCB-69	200.00	2.16e+08	0.80	y	28:59	-	0.872	Co-elute PCB 52
55	Unk	PCB-73	100.00	1.41e+08	0.82	y	29:04	-	1.14	
56	Unk	PCB-43	200.00	1.94e+08	0.81	y	29:14	-	0.783	Co-elute PCB 49
57	Unk	PCB-49	200.00	1.94e+08	0.81	y	29:14	-	0.783	Co-elute PCB 43
58	Unk	PCB-47	100.00	1.00e+08	0.81	y	29:27	-	0.813	
59	Unk	PCB-48	200.00	2.44e+08	0.83	y	29:33	-	0.988	Co-elute PCB 75
60	Unk	PCB-75	200.00	2.44e+08	0.83	y	29:33	-	0.988	Co-elute PCB 48
61	Unk	PCB-65	100.00	1.22e+08	0.79	y	29:48	-	0.985	
62	Unk	PCB-62	100.00	1.34e+08	0.81	y	29:54	-	1.08	
63	Unk	PCB-44	100.00	8.38e+07	0.80	y	30:11	-	0.678	
64	Unk	PCB-42	200.00	2.15e+08	0.81	y	30:25	-	0.870	Co-elute PCB 59
65	Unk	PCB-59	200.00	2.15e+08	0.81	y	30:25	-	0.870	Co-elute PCB 42
66	Unk	PCB-72	400.00	4.74e+08	0.82	y	30:58	-	0.958	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	4.74e+08	0.82	y	30:58	-	0.958	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	4.74e+08	0.82	y	30:58	-	0.958	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	4.74e+08	0.82	y	30:58	-	0.958	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	1.35e+08	0.81	y	31:12	-	1.09	
71	Unk	PCB-40	100.00	7.51e+07	0.82	y	31:24	-	0.607	
72	Unk	PCB-57	100.00	1.18e+08	0.82	y	31:44	-	0.957	
73	Unk	PCB-67	100.00	1.22e+08	0.82	y	32:02	-	0.985	
74	Unk	PCB-58	100.00	1.21e+08	0.81	y	32:08	-	0.982	
75	Unk	PCB-63	100.00	1.19e+08	0.81	y	32:17	-	0.963	
76	Unk	PCB-74	100.00	1.19e+08	0.80	y	32:34	-	0.964	
77	Unk	PCB-61	200.00	2.28e+08	0.80	y	32:46	-	0.923	Co-elute PCB 70
78	Unk	PCB-70	200.00	2.28e+08	0.80	y	32:46	-	0.923	Co-elute PCB 61
79	Unk	PCB-76	200.00	2.48e+08	0.81	y	32:57	-	1.00	Co-elute PCB 66
80	Unk	PCB-66	200.00	2.48e+08	0.81	y	32:57	-	1.00	Co-elute PCB 76
81	Unk	PCB-80	100.00	1.43e+08	0.80	y	33:09	-	1.16	
82	Unk	PCB-55	100.00	1.24e+08	0.80	y	33:28	-	1.01	
83	IS/RT	13C-PCB-54	100.00	1.24e+08	0.82	y	25:35	-	1.31	
84	Unk	PCB-104	100.00	1.08e+08	1.57	y	30:03	-	1.09	
85	Unk	PCB-96	100.00	1.00e+08	1.57	y	31:14	-	1.01	
86	Unk	PCB-103	100.00	7.89e+07	1.59	y	31:44	-	0.796	
87	Unk	PCB-100	100.00	7.88e+07	1.58	y	32:05	-	0.794	
88	Unk	PCB-94	100.00	6.44e+07	1.61	y	32:31	-	0.650	
89	Unk	PCB-98	200.00	1.40e+08	1.56	y	32:58	-	0.704	Co-elute PCB 102
90	Unk	PCB-102	200.00	1.40e+08	1.56	y	32:58	-	0.704	Co-elute PCB 98
91	Unk	PCB-95	100.00	6.77e+07	1.57	y	33:02	-	0.682	
92	Unk	PCB-93	100.00	6.46e+07	1.61	y	33:07	-	0.651	
93	Unk	PCB-88	200.00	1.46e+08	1.55	y	33:26	-	0.734	Co-elute PCB 91
94	Unk	PCB-91	200.00	1.46e+08	1.55	y	33:26	-	0.734	Co-elute PCB 88
95	Unk	PCB-121	100.00	8.85e+07	1.63	y	33:29	-	0.892	
96	IS	13C-PCB-104	100.00	9.92e+07	1.58	y	30:01	-	1.05	
97	C/Up	13C-PCB-28	100.00	1.72e+08	1.05	y	26:40	-	1.82	
98	RS	13C-PCB-52	100.00	9.46e+07	0.81	y	28:56	9.46e+05	-	
99	Unk	PCB-56	200.00	2.52e+08	0.77	y	33:57	-	1.12	Co-elute PCB 60
100	Unk	PCB-60	200.00	2.52e+08	0.77	y	33:57	-	1.12	Co-elute PCB 56

101	Unk	PCB-79	100.00	1.28e+08	0.80 y	34:58	-	1.14	
102	Unk	PCB-78	100.00	1.25e+08	0.79 y	35:37	-	1.11	
103	Unk	PCB-81	100.00	1.34e+08	0.79 y	36:07	-	1.21	
104	IS	13C-PCB-81	100.00	1.10e+08	0.79 y	36:06	-	1.53	
105	Unk	PCB-77	100.00	1.19e+08	0.79 y	36:41	-	1.04	
106	IS/RT	13C-PCB-77	100.00	1.14e+08	0.80 y	36:40	-	1.58	
107	Unk	PCB-155	100.00	9.82e+07	1.27 y	34:12	-	1.03	
108	Unk	PCB-150	100.00	9.41e+07	1.26 y	35:24	-	0.987	
109	Unk	PCB-152	100.00	9.24e+07	1.27 y	35:51	-	0.970	
110	Unk	PCB-145	100.00	9.58e+07	1.26 y	36:16	-	1.01	
111	Unk	PCB-136	100.00	9.10e+07	1.25 y	36:35	-	0.955	
112	Unk	PCB-148	100.00	6.82e+07	1.28 y	36:40	-	0.716	
113	Unk	PCB-154	100.00	7.50e+07	1.25 y	37:08	-	0.787	
114	IS	13C-PCB-155	100.00	9.53e+07	1.29 y	34:11	-	1.32	
115	C/Up	13C-PCB-111	100.00	8.78e+07	1.63 y	36:15	-	1.22	
116	RS	13C-PCB-101	100.00	7.21e+07	1.61 y	34:37	7.21e+05	-	
117	Unk	PCB-84	200.00	1.43e+08	1.59 y	34:17	-	0.751	Co-elute PCB 92
118	Unk	PCB-92	200.00	1.43e+08	1.59 y	34:17	-	0.751	Co-elute PCB 84
119	Unk	PCB-89	100.00	7.40e+07	1.59 y	34:27	-	0.779	
120	Unk	PCB-90	200.00	1.66e+08	1.60 y	34:37	-	0.875	Co-elute PCB 101
121	Unk	PCB-101	200.00	1.66e+08	1.60 y	34:37	-	0.875	Co-elute PCB 90
122	Unk	PCB-113	100.00	8.94e+07	1.59 y	34:51	-	0.941	
123	Unk	PCB-99	100.00	9.47e+07	1.61 y	34:56	-	0.998	
124	Unk	PCB-119	100.00	1.04e+08	1.63 y	35:23	-	1.10	
125	Unk	PCB-83	200.00	1.65e+08	1.56 y	35:32	-	0.867	Co-elute PCB 112
126	Unk	PCB-112	200.00	1.65e+08	1.56 y	35:32	-	0.867	Co-elute PCB 83
127	Unk	PCB-109	100.00	1.00e+08	1.58 y	35:42	-	1.06	
128	Unk	PCB-97	100.00	6.95e+07	1.59 y	35:52	-	0.732	
129	Unk	PCB-86	100.00	6.97e+07	1.58 y	36:01	-	0.734	
130	Unk	PCB-125	300.00	2.77e+08	1.59 y	36:08	-	0.972	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	2.77e+08	1.59 y	36:08	-	0.972	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	2.77e+08	1.59 y	36:08	-	0.972	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	2.21e+08	1.59 y	36:17	-	1.17	Co-elute PCB 115
134	Unk	PCB-115	200.00	2.21e+08	1.59 y	36:17	-	1.17	Co-elute PCB 111
135	Unk	PCB-85	200.00	1.71e+08	1.59 y	36:25	-	0.902	Co-elute PCB 116
136	Unk	PCB-116	200.00	1.71e+08	1.59 y	36:25	-	0.902	Co-elute PCB 85
137	Unk	PCB-120	100.00	1.07e+08	1.59 y	36:37	-	1.13	
138	Unk	PCB-110	100.00	1.04e+08	1.59 y	36:46	-	1.09	
139	Unk	PCB-82	100.00	5.97e+07	1.58 y	37:22	-	0.628	
140	Unk	PCB-124	100.00	1.00e+08	1.54 y	38:01	-	1.06	
141	Unk	PCB-108	200.00	2.08e+08	1.55 y	38:09	-	1.09	Co-elute PCB 107
142	Unk	PCB-107	200.00	2.08e+08	1.55 y	38:09	-	1.09	Co-elute PCB 108
143	Unk	PCB-123	100.00	9.31e+07	1.55 y	38:19	-	1.05	
144	IS	13C-PCB-123	100.00	8.86e+07	1.57 y	38:17	-	1.27	
145	Unk	PCB-118	200.00	2.11e+08	1.53 y	38:30	-	1.05	Co-elute PCB 106
146	Unk	PCB-106	200.00	2.11e+08	1.53 y	38:30	-	1.05	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	1.01e+08	1.59 y	38:29	-	1.44	
148	Unk	PCB-114	100.00	1.05e+08	1.54 y	39:06	-	1.11	
149	IS	13C-PCB-114	100.00	9.46e+07	1.60 y	39:05	-	1.35	
150	Unk	PCB-122	100.00	1.04e+08	1.56 y	39:13	-	1.09	
151	Unk	PCB-105	100.00	1.09e+08	1.55 y	39:56	-	1.14	
152	IS	13C-PCB-105	100.00	9.57e+07	1.59 y	39:54	-	1.37	
153	Unk	PCB-127	100.00	9.85e+07	1.56 y	40:14	-	1.04	
154	Unk	PCB-126	100.00	9.60e+07	1.53 y	42:03	-	1.09	
155	IS	13C-PCB-126	100.00	8.79e+07	1.58 y	42:01	-	1.26	

156	Unk	PCB-151	100.00	6.68e+07	1.28 y	37:46	-	0.838	
157	Unk	PCB-135	100.00	7.04e+07	1.26 y	37:57	-	0.883	
158	Unk	PCB-144	100.00	7.08e+07	1.25 y	38:04	-	0.888	
159	Unk	PCB-147	100.00	7.75e+07	1.30 y	38:10	-	0.972	
160	Unk	PCB-139	200.00	1.56e+08	1.26 y	38:25	-	0.981	Co-elute PCB 149
161	Unk	PCB-149	200.00	1.56e+08	1.26 y	38:25	-	0.981	Co-elute PCB 139
162	Unk	PCB-140	100.00	7.67e+07	1.30 y	38:37	-	0.962	
163	Unk	PCB-143	200.00	1.26e+08	1.29 y	39:01	-	0.790	Co-elute PCB 134
164	Unk	PCB-134	200.00	1.26e+08	1.29 y	39:01	-	0.790	Co-elute PCB 143
165	Unk	PCB-131	200.00	1.26e+08	1.28 y	39:18	-	0.787	Co-elute PCB 133
166	Unk	PCB-133	200.00	1.26e+08	1.28 y	39:18	-	0.787	Co-elute PCB 131
167	Unk	PCB-142	100.00	6.55e+07	1.28 y	39:28	-	0.822	
168	Unk	PCB-165	200.00	1.73e+08	1.28 y	39:39	-	1.09	Co-elute PCB 146
169	Unk	PCB-146	200.00	1.73e+08	1.28 y	39:39	-	1.09	Co-elute PCB 165
170	Unk	PCB-161	200.00	1.67e+08	1.27 y	39:52	-	1.04	Co-elute PCB 132
171	Unk	PCB-132	200.00	1.67e+08	1.27 y	39:52	-	1.04	Co-elute PCB 161
172	Unk	PCB-153	100.00	8.22e+07	1.29 y	40:02	-	1.03	
173	Unk	PCB-168	100.00	9.77e+07	1.26 y	40:14	-	1.23	
174	Unk	PCB-141	100.00	7.06e+07	1.27 y	40:45	-	0.886	
175	Unk	PCB-137	100.00	7.12e+07	1.24 y	41:07	-	0.893	
176	Unk	PCB-130	100.00	5.86e+07	1.28 y	41:12	-	0.735	
177	Unk	PCB-138	300.00	2.59e+08	1.27 y	41:33	-	1.08	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	2.59e+08	1.27 y	41:33	-	1.08	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	2.59e+08	1.27 y	41:33	-	1.08	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	1.92e+08	1.27 y	41:48	-	1.20	Co-elute PCB 160
181	Unk	PCB-160	200.00	1.92e+08	1.27 y	41:48	-	1.20	Co-elute PCB 158
182	Unk	PCB-129	100.00	6.02e+07	1.26 y	42:01	-	0.756	
183	Unk	PCB-166	100.00	8.91e+07	1.28 y	42:27	-	1.12	
184	Unk	PCB-159	100.00	9.71e+07	1.26 y	42:45	-	1.22	
185	Unk	PCB-128	200.00	1.58e+08	1.26 y	43:02	-	0.992	Co-elute PCB 162
186	Unk	PCB-162	200.00	1.58e+08	1.26 y	43:02	-	0.992	Co-elute PCB 128
187	Unk	PCB-167	100.00	9.08e+07	1.24 y	43:23	-	1.10	
188	IS	13C-PCB-167	100.00	8.23e+07	1.29 y	43:23	-	1.18	
189	Unk	PCB-156	100.00	9.49e+07	1.26 y	44:37	-	1.18	
190	IS	13C-PCB-156	100.00	8.04e+07	1.29 y	44:36	-	1.15	
191	Unk	PCB-157	100.00	9.17e+07	1.25 y	44:52	-	1.12	
192	IS	13C-PCB-157	100.00	8.22e+07	1.30 y	44:52	-	1.18	
193	Unk	PCB-169	100.00	7.97e+07	1.30 y	46:44	-	1.08	
194	IS	13C-PCB-169	100.00	7.39e+07	1.29 y	46:44	-	1.06	
195	Unk	PCB-188	100.00	8.47e+07	1.07 y	39:41	-	1.02	
196	IS	13C-PCB-188	100.00	8.32e+07	1.06 y	39:39	-	1.19	

197	Unk	PCB-184	100.00	8.84e+07	1.05 y	40:07	-	1.15	
198	Unk	PCB-179	100.00	8.35e+07	1.07 y	40:52	-	1.09	
199	Unk	PCB-176	100.00	8.04e+07	1.06 y	41:18	-	1.05	
200	Unk	PCB-186	100.00	8.28e+07	1.05 y	41:53	-	1.08	
201	Unk	PCB-178	100.00	5.39e+07	1.06 y	42:19	-	0.702	
202	Unk	PCB-175	100.00	5.83e+07	1.04 y	42:39	-	0.759	
203	Unk	PCB-187	200.00	1.29e+08	1.05 y	42:49	-	0.843	Co-elute PCB 182
204	Unk	PCB-182	200.00	1.29e+08	1.05 y	42:49	-	0.843	Co-elute PCB 187
205	Unk	PCB-183	100.00	6.23e+07	1.06 y	43:07	-	0.811	
206	Unk	PCB-185	100.00	5.68e+07	1.05 y	43:45	-	0.739	
207	Unk	PCB-174	100.00	5.64e+07	1.04 y	44:04	-	0.735	
208	Unk	PCB-181	100.00	6.12e+07	1.05 y	44:11	-	0.798	
209	Unk	PCB-177	100.00	5.34e+07	1.05 y	44:21	-	0.695	
210	Unk	PCB-171	100.00	5.80e+07	1.05 y	44:37	-	0.756	
211	Unk	PCB-173	100.00	5.08e+07	1.05 y	45:02	-	0.662	
212	Unk	PCB-172	100.00	5.14e+07	1.05 y	45:25	-	0.669	
213	Unk	PCB-192	100.00	7.01e+07	1.05 y	45:35	-	0.913	
214	Unk	PCB-180	100.00	5.31e+07	1.03 y	45:46	-	0.691	
215	Unk	PCB-193	100.00	7.53e+07	1.07 y	45:56	-	0.981	
216	Unk	PCB-191	100.00	7.38e+07	1.05 y	46:09	-	0.961	
217	Unk	PCB-170	100.00	5.27e+07	1.05 y	47:04	-	0.686	
218	Unk	PCB-190	100.00	7.12e+07	1.06 y	47:12	-	0.927	
219	Unk	PCB-189	100.00	6.92e+07	1.04 y	48:24	-	0.984	
220	IS	13C-PCB-189	100.00	7.04e+07	1.07 y	48:24	-	1.01	
221	Unk	PCB-202	150.00	1.01e+08	0.92 y	44:47	-	1.00	
222	Unk	PCB-201	150.00	1.04e+08	0.92 y	45:15	-	1.03	
223	Unk	PCB-204	150.00	1.03e+08	0.91 y	45:23	-	1.02	
224	Unk	PCB-197	150.00	1.10e+08	0.92 y	45:40	-	1.09	
225	Unk	PCB-200	150.00	1.08e+08	0.90 y	46:24	-	1.07	
226	Unk	PCB-198	150.00	6.98e+07	0.91 y	47:35	-	0.692	
227	Unk	PCB-199	150.00	7.76e+07	0.93 y	47:40	-	0.769	
228	Unk	PCB-203	300.00	1.67e+08	0.93 y	47:55	-	0.829	Co-elute PCB 196
229	Unk	PCB-196	300.00	1.67e+08	0.93 y	47:55	-	0.829	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	6.73e+07	0.91 y	44:47	-	0.962	
231	C/Up	13C-PCB-178	100.00	5.38e+07	1.08 y	42:17	-	0.770	
232	RS	13C-PCB-138	100.00	6.99e+07	1.29 y	41:31	6.99e+05	-	
233	Unk	PCB-195	150.00	9.02e+07	0.90 y	49:01	-	0.806	
234	Unk	PCB-194	150.00	9.99e+07	0.90 y	49:48	-	0.892	
235	Unk	PCB-205	150.00	1.24e+08	0.91 y	50:04	-	1.11	
236	IS	13C-PCB-205	100.00	7.46e+07	0.91 y	50:04	-	1.26	
237	Unk	PCB-208	150.00	1.21e+08	1.34 y	49:09	-	1.01	
238	IS	13C-PCB-208	100.00	8.02e+07	0.80 y	49:07	-	1.35	
239	Unk	PCB-207	150.00	1.15e+08	1.34 y	49:25	-	1.13	
240	Unk	PCB-206	150.00	8.56e+07	1.33 y	51:16	-	1.04	
241	IS	13C-PCB-206	100.00	5.51e+07	0.79 y	51:16	-	0.928	
242	Unk	PCB-209	150.00	1.16e+08	1.19 y	52:28	-	1.10	
243	IS	13C-PCB-209	100.00	7.05e+07	1.20 y	52:26	-	1.19	
244	RS	13C-PCB-194	100.00	5.93e+07	0.91 y	49:48	5.93e+05	-	

Analyst: _____ Date: 8/7/15

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/6/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 06AUG19Z Sam:1 Analysis Date: 6-AUG-19 08:16:44

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	49.1	37.5 - 62.5
PCB-3	M/M+2	3.21	2.66-3.60	y	51.5	37.5 - 62.5
PCB-4	M/M+2	1.56	1.33-1.79	y	43.5	37.5 - 62.5
PCB-15	M/M+2	1.54	1.33-1.79	y	46.4	37.5 - 62.5
PCB-19	M/M+2	1.08	0.88-1.20	y	50.2	37.5 - 62.5
PCB-37	M/M+2	1.06	0.88-1.20	y	46.5	37.5 - 62.5
PCB-54	M/M+2	0.83	0.65-0.89	y	48.9	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	50.5	37.5 - 62.5
PCB-81	M/M+2	0.79	0.65-0.89	y	45.3	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	50.5	37.5 - 62.5
PCB-105	M+2/M+4	1.55	1.32-1.78	y	44.2	37.5 - 62.5
PCB-114	M+2/M+4	1.55	1.32-1.78	y	46.7	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	49.6	37.5 - 62.5
PCB-123	M+2/M+4	1.55	1.32-1.78	y	50.0	37.5 - 62.5
PCB-126	M+2/M+4	1.54	1.32-1.78	y	47.5	37.5 - 62.5
PCB-155	M+2/M+4	1.25	1.05-1.43	y	49.8	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	46.3	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	47.1	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	47.4	37.5 - 62.5
PCB-169	M+2/M+4	1.29	1.05-1.43	y	49.1	37.5 - 62.5
PCB-188	M+2/M+4	1.08	0.89-1.21	y	52.9	37.5 - 62.5
PCB-189	M+2/M+4	1.08	0.89-1.21	y	53.0	37.5 - 62.5
PCB-202	M+2/M+4	0.92	0.76-1.02	y	48.1	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	49.8	37.5 - 62.5
PCB-206	M+4/M+6	1.33	1.13-1.53	y	49.1	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	51.2	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	51.0	37.5 - 62.5

Analyst: [illegible] Date: 8/6/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/6/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 06AUG19Z Sam:1 Analysis Date: 6-AUG-19 08:16:44

	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	105	50.0 - 145
13C-PCB-3	M/M+2	3.24	2.66-3.60	y	99.4	50.0 - 145
13C-PCB-4	M/M+2	1.56	1.33-1.79	y	101	50.0 - 145
13C-PCB-15	M/M+2	1.58	1.33-1.79	y	106	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	98.8	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	102	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	95.3	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	91.5	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	92.8	50.0 - 145
13C-PCB-104	M+2/M+4	1.58	1.32-1.78	y	96.4	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	99.2	50.0 - 145
13C-PCB-114	M+2/M+4	1.60	1.32-1.78	y	101	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	102	50.0 - 145
13C-PCB-123	M+2/M+4	1.56	1.32-1.78	y	104	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	97.9	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	103	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	104	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	104	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	106	50.0 - 145
13C-PCB-169	M+2/M+4	1.30	1.05-1.43	y	105	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	97.0	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	99.9	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	112	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	105	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	107	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	104	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	106	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	93.3	65.0 - 135
13C-PCB-111	M+2/M+4	1.62	1.32-1.78	y	106	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	104	75.0 - 125

Analyst: [signature] Date: 8/6/19

FAL ID: ST080619Z1 Filename: 06AUG19Z Sam:1 Acquired: 6-AUG-19 08:16:44 ICal: DAILY209FAL4-8-6-19
Client ID: 1668 CS3 R181204D ConCal: ST080619Z1 EndCal: ST080619Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	8.37e+07	3.13 y	14:34	1.16	49.1		2.50	-	-	*	
13C-PCB-1	1.47e+08	3.24 y	14:33	0.90	105		2.50				105
PCB-3	8.34e+07	3.21 y	16:59	1.17	51.5		2.50	-	-	*	
13C-PCB-3	1.38e+08	3.24 y	16:58	0.89	99.4		2.50				99.4
PCB-4	5.55e+07	1.56 y	18:13	1.21	43.5		2.50	-	-	*	
13C-PCB-4	1.05e+08	1.56 y	18:11	0.67	101		2.50				101
PCB-15	7.49e+07	1.54 y	23:44	1.10	46.4		2.50	-	-	*	
13C-PCB-15	1.46e+08	1.58 y	23:43	0.89	106		2.50				106
PCB-19	4.59e+07	1.08 y	22:06	1.18	50.2		2.50	-	-	*	
13C-PCB-19	7.71e+07	1.08 y	22:04	0.50	98.8		2.50				98.8
13C-PCB-9	1.56e+08	1.61 y	19:52	-	70.9		2.50				
PCB-37	5.70e+07	1.06 y	30:24	1.15	46.5		2.50	-	-	*	
13C-PCB-37	1.06e+08	1.06 y	30:22	1.41	102		2.50				102
PCB-54	5.20e+07	0.83 y	25:38	1.15	48.9		2.50	-	-	*	
13C-PCB-54	9.23e+07	0.82 y	25:37	1.31	95.3		2.50				95.3
PCB-104	4.12e+07	1.59 y	30:05	1.09	50.5		2.50	-	-	*	
13C-PCB-104	7.49e+07	1.58 y	30:02	1.05	96.4		2.50				96.4
13C-PCB-28	1.25e+08	1.04 y	26:41	1.82	93.3		2.50				93.3
13C-PCB-52	7.40e+07	0.82 y	28:58	-	78.3		2.50				
PCB-81	4.77e+07	0.79 y	36:08	1.21	45.3		2.50	-	-	*	
13C-PCB-81	8.68e+07	0.80 y	36:07	1.53	92.8		2.50				92.8
PCB-77	4.67e+07	0.80 y	36:43	1.04	50.5		2.50	-	-	*	
13C-PCB-77	8.88e+07	0.81 y	36:41	1.58	91.5		2.50				91.5
PCB-155	4.29e+07	1.25 y	34:13	1.03	49.8		2.50	-	-	*	
13C-PCB-155	8.37e+07	1.29 y	34:12	1.32	103		2.50				103
13C-PCB-111	7.91e+07	1.62 y	36:16	1.22	106		2.50				106
13C-PCB-101	6.12e+07	1.63 y	34:39	-	84.9		2.50				
PCB-123	4.15e+07	1.55 y	38:20	1.05	50.0		2.50	-	-	*	
13C-PCB-123	7.89e+07	1.56 y	38:19	1.27	104		2.50				104
PCB-118	4.60e+07	1.56 y	38:30	1.05	49.6		2.50	-	-	*	
13C-PCB-118	8.84e+07	1.61 y	38:29	1.44	102		2.50				102
PCB-114	4.30e+07	1.55 y	39:08	1.11	46.7		2.50	-	-	*	
13C-PCB-114	8.25e+07	1.60 y	39:06	1.35	101		2.50				101
PCB-105	4.10e+07	1.55 y	39:56	1.14	44.2		2.50	-	-	*	
13C-PCB-105	8.17e+07	1.59 y	39:56	1.37	99.2		2.50				99.2
PCB-126	3.84e+07	1.54 y	42:04	1.09	47.5		2.50	-	-	*	
13C-PCB-126	7.40e+07	1.60 y	42:03	1.26	97.9		2.50				97.9
PCB-167	3.91e+07	1.25 y	43:25	1.10	47.4		2.50	-	-	*	
13C-PCB-167	7.47e+07	1.28 y	43:23	1.18	106		2.50				106
PCB-156	3.91e+07	1.26 y	44:39	1.18	46.3		2.50	-	-	*	
13C-PCB-156	7.16e+07	1.28 y	44:37	1.15	104		2.50				104
PCB-157	3.84e+07	1.26 y	44:54	1.12	47.1		2.50	-	-	*	
13C-PCB-157	7.32e+07	1.29 y	44:54	1.18	104		2.50				104
PCB-169	3.52e+07	1.29 y	46:46	1.08	49.1		2.50	-	-	*	
13C-PCB-169	6.65e+07	1.30 y	46:46	1.06	105		2.50				105
PCB-188	3.74e+07	1.08 y	39:43	1.02	52.9		2.50	-	-	*	
13C-PCB-188	6.94e+07	1.07 y	39:41	1.19	97.0		2.50				97.0
PCB-189	3.15e+07	1.08 y	48:26	0.98	53.0		2.50	-	-	*	
13C-PCB-189	6.04e+07	1.07 y	48:24	1.01	99.9		2.50				99.9
PCB-202	3.12e+07	0.92 y	44:49	1.00	48.1		2.50	-	-	*	
13C-PCB-202	6.48e+07	0.90 y	44:47	0.96	112		2.50				112
13C-PCB-178	4.81e+07	1.07 y	42:19	0.77	104		2.50				104
13C-PCB-138	6.01e+07	1.28 y	41:33	-	85.9		2.50				

Client ID: 1668 CS3 R181204D ConCal: ST080619Z1 EndCal: ST080619Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	3.89e+07	0.91	y	50:05	1.11	49.8	2.50	-	-	*	
13C-PCB-205	7.05e+07	0.89	y	50:04	1.26	105	2.50				105
PCB-208	3.88e+07	1.36	y	49:09	1.01	51.2	2.50	-	-	*	
13C-PCB-208	7.53e+07	0.81	y	49:09	1.35	104	2.50				104
PCB-206	2.71e+07	1.33	y	51:17	1.04	49.1	2.50	-	-	*	
13C-PCB-206	5.34e+07	0.79	y	51:16	0.93	107	2.50				107
PCB-209	3.75e+07	1.19	y	52:28	1.10	51.0	2.50	-	-	*	
13C-PCB-209	6.71e+07	1.21	y	52:26	1.19	106	2.50				106
13C-PCB-194	5.36e+07	0.90	y	49:48	-	90.3	2.50				

Analyst: [illegible] Date: 8/6/19

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/6/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 06AUG19Z Sam:16 Analysis Date: 6-AUG-19 22:54:36

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.20	2.66-3.60	y	51.5	37.5 - 62.5
PCB-3	M/M+2	3.11	2.66-3.60	y	51.3	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	44.3	37.5 - 62.5
PCB-15	M/M+2	1.52	1.33-1.79	y	47.6	37.5 - 62.5
PCB-19	M/M+2	1.08	0.88-1.20	y	50.2	37.5 - 62.5
PCB-37	M/M+2	1.06	0.88-1.20	y	46.1	37.5 - 62.5
PCB-54	M/M+2	0.83	0.65-0.89	y	49.7	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	51.0	37.5 - 62.5
PCB-81	M/M+2	0.82	0.65-0.89	y	46.4	37.5 - 62.5
PCB-104	M+2/M+4	1.56	1.32-1.78	y	49.6	37.5 - 62.5
PCB-105	M+2/M+4	1.52	1.32-1.78	y	46.0	37.5 - 62.5
PCB-114	M+2/M+4	1.52	1.32-1.78	y	48.3	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	51.7	37.5 - 62.5
PCB-123	M+2/M+4	1.57	1.32-1.78	y	52.8	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	49.6	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	50.7	37.5 - 62.5
PCB-156	M+2/M+4	1.24	1.05-1.43	y	47.0	37.5 - 62.5
PCB-157	M+2/M+4	1.28	1.05-1.43	y	48.5	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	49.4	37.5 - 62.5
PCB-169	M+2/M+4	1.25	1.05-1.43	y	49.4	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	53.2	37.5 - 62.5
PCB-189	M+2/M+4	1.04	0.89-1.21	y	50.8	37.5 - 62.5
PCB-202	M+2/M+4	0.93	0.76-1.02	y	49.8	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	48.8	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	49.3	37.5 - 62.5
PCB-208	M+4/M+6	1.37	1.13-1.53	y	49.6	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	51.0	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: 8/6/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 06AUG19Z Sam:16 Analysis Date: 6-AUG-19 22:54:36

	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	3.29	2.66-3.60	y	104	50.0 - 145
13C-PCB-3	M/M+2	3.27	2.66-3.60	y	96.7	50.0 - 145
13C-PCB-4	M/M+2	1.61	1.33-1.79	y	115	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	90.5	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	109	50.0 - 145
13C-PCB-37	M/M+2	1.05	0.88-1.20	y	95.7	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	122	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	86.4	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	86.6	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	115	50.0 - 145
13C-PCB-105	M+2/M+4	1.63	1.32-1.78	y	100	50.0 - 145
13C-PCB-114	M+2/M+4	1.57	1.32-1.78	y	103	50.0 - 145
13C-PCB-118	M+2/M+4	1.60	1.32-1.78	y	106	50.0 - 145
13C-PCB-123	M+2/M+4	1.57	1.32-1.78	y	107	50.0 - 145
13C-PCB-126	M+2/M+4	1.56	1.32-1.78	y	97.7	50.0 - 145
13C-PCB-155	M+2/M+4	1.30	1.05-1.43	y	118	50.0 - 145
13C-PCB-156	M+2/M+4	1.32	1.05-1.43	y	98.7	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	103	50.0 - 145
13C-PCB-167	M+2/M+4	1.33	1.05-1.43	y	103	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	105	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	112	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	122	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	108	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	114	50.0 - 145
13C-PCB-208	M+2/M+4	0.78	0.65-0.89	y	107	50.0 - 145
13C-PCB-209	M+4/M+6	1.18	0.99-1.33	y	113	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	97.0	65.0 - 135
13C-PCB-111	M+2/M+4	1.63	1.32-1.78	y	103	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	109	75.0 - 125

Analyst: _____ Date: 8/7/19

FAL ID: ST08061922 Filename: 06AUG19Z Sam:16 Acquired: 6-AUG-19 22:54:36 ICal: DAILY209FAL4-8-6-19
Client ID: 1668 CS3 R181204D ConCal: ST08061921 EndCal: ST08061922
Results: 12512 GC Column: DB1MS Amount: 1.000

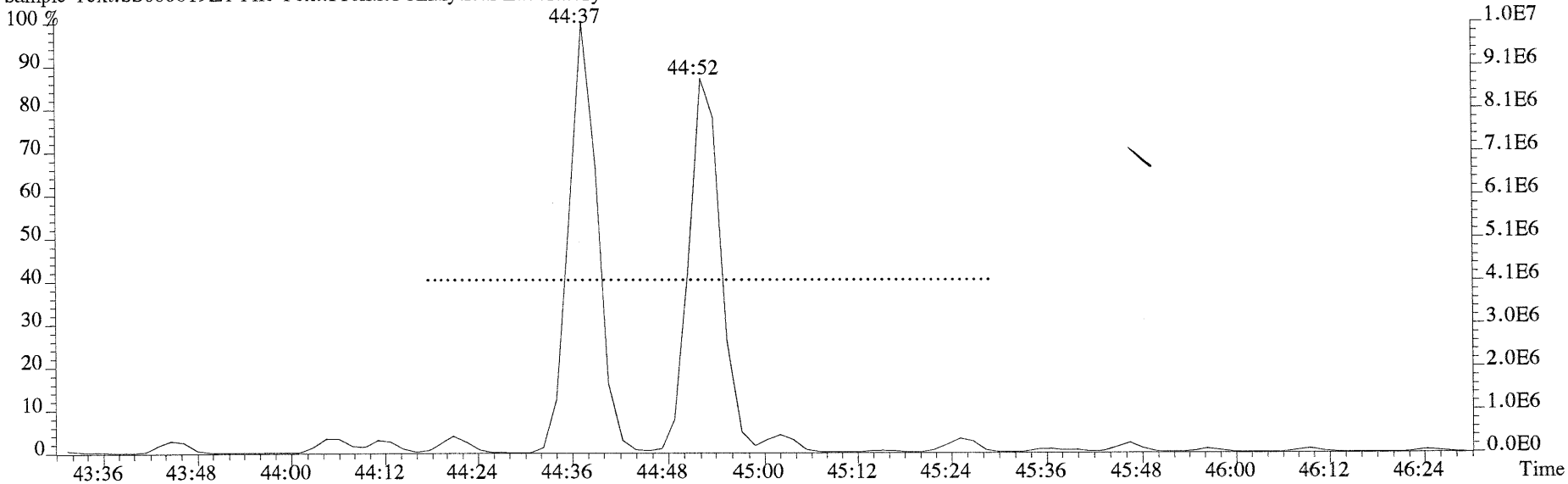
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	5.92e+07	3.20 y	14:32	1.16	51.5		2.50	-	-	*	
13C-PCB-1	9.93e+07	3.29 y	14:31	0.90	104		2.50				104
PCB-3	5.51e+07	3.11 y	16:58	1.17	51.3		2.50	-	-	*	
13C-PCB-3	9.16e+07	3.27 y	16:57	0.89	96.7		2.50				96.7
PCB-4	4.39e+07	1.57 y	18:11	1.21	44.3		2.50	-	-	*	
13C-PCB-4	8.17e+07	1.61 y	18:11	0.67	115		2.50				115
PCB-15	4.48e+07	1.52 y	23:43	1.10	47.6		2.50	-	-	*	
13C-PCB-15	8.51e+07	1.60 y	23:42	0.89	90.5		2.50				90.5
PCB-19	3.46e+07	1.08 y	22:04	1.18	50.2		2.50	-	-	*	
13C-PCB-19	5.83e+07	1.08 y	22:03	0.50	109		2.50				109
13C-PCB-9	1.06e+08	1.60 y	19:51	-	48.4		2.50				
PCB-37	3.15e+07	1.06 y	30:22	1.15	46.1		2.50	-	-	*	
13C-PCB-37	5.94e+07	1.05 y	30:21	1.41	95.7		2.50				95.7
PCB-54	4.01e+07	0.83 y	25:37	1.15	49.7		2.50	-	-	*	
13C-PCB-54	7.00e+07	0.81 y	25:35	1.31	122		2.50				122
PCB-104	2.87e+07	1.56 y	30:02	1.09	49.6		2.50	-	-	*	
13C-PCB-104	5.31e+07	1.59 y	30:01	1.05	115		2.50				115
13C-PCB-28	7.73e+07	1.04 y	26:40	1.82	97.0		2.50				97.0
13C-PCB-52	4.39e+07	0.81 y	28:55	-	46.4		2.50				
PCB-81	2.20e+07	0.82 y	36:07	1.21	46.4		2.50	-	-	*	
13C-PCB-81	3.91e+07	0.80 y	36:06	1.53	86.6		2.50				86.6
PCB-77	2.15e+07	0.79 y	36:41	1.04	51.0		2.50	-	-	*	
13C-PCB-77	4.04e+07	0.80 y	36:40	1.58	86.4		2.50				86.4
PCB-155	2.41e+07	1.26 y	34:11	1.03	50.7		2.50	-	-	*	
13C-PCB-155	4.60e+07	1.30 y	34:10	1.32	118		2.50				118
13C-PCB-111	3.70e+07	1.63 y	36:15	1.22	103		2.50				103
13C-PCB-101	2.95e+07	1.64 y	34:36	-	41.0		2.50				
PCB-123	1.93e+07	1.57 y	38:19	1.05	52.8		2.50	-	-	*	
13C-PCB-123	3.47e+07	1.57 y	38:17	1.27	107		2.50				107
PCB-118	2.11e+07	1.56 y	38:28	1.05	51.7		2.50	-	-	*	
13C-PCB-118	3.90e+07	1.60 y	38:27	1.44	106		2.50				106
PCB-114	1.92e+07	1.52 y	39:05	1.11	48.3		2.50	-	-	*	
13C-PCB-114	3.57e+07	1.57 y	39:05	1.35	103		2.50				103
PCB-105	1.84e+07	1.52 y	39:54	1.14	46.0		2.50	-	-	*	
13C-PCB-105	3.51e+07	1.63 y	39:52	1.37	100		2.50				100
PCB-126	1.70e+07	1.58 y	42:02	1.09	49.6		2.50	-	-	*	
13C-PCB-126	3.14e+07	1.56 y	42:01	1.26	97.7		2.50				97.7
PCB-167	1.68e+07	1.26 y	43:23	1.10	49.4		2.50	-	-	*	
13C-PCB-167	3.09e+07	1.33 y	43:21	1.18	103		2.50				103
PCB-156	1.61e+07	1.24 y	44:37	1.18	47.0		2.50	-	-	*	
13C-PCB-156	2.90e+07	1.32 y	44:36	1.15	98.7		2.50				98.7
PCB-157	1.68e+07	1.28 y	44:52	1.12	48.5		2.50	-	-	*	
13C-PCB-157	3.10e+07	1.30 y	44:50	1.18	103		2.50				103
PCB-169	1.51e+07	1.25 y	46:44	1.08	49.4		2.50	-	-	*	
13C-PCB-169	2.83e+07	1.29 y	46:44	1.06	105		2.50				105
PCB-188	1.84e+07	1.06 y	39:41	1.02	53.2		2.50	-	-	*	
13C-PCB-188	3.40e+07	1.07 y	39:39	1.19	112		2.50				112
PCB-189	1.41e+07	1.04 y	48:24	0.98	50.8		2.50	-	-	*	
13C-PCB-189	2.83e+07	1.07 y	48:23	1.01	110		2.50				110
PCB-202	1.50e+07	0.93 y	44:47	1.00	49.8		2.50	-	-	*	
13C-PCB-202	3.01e+07	0.90 y	44:45	0.96	122		2.50				122
13C-PCB-178	2.14e+07	1.08 y	42:17	0.77	109		2.50				109
13C-PCB-138	2.55e+07	1.28 y	41:30	-	36.5		2.50				

FAL ID: ST080619Z2 Filename: 06AUG19Z Sam:16 Acquired: 6-AUG-19 22:54:36 ICal: DAILY209FAL4-8-6-19
Client ID: 1668 CS3 R181204D ConCal: ST080619Z1 EndCal: ST080619Z2
Results: 12512 GC Column: DB1MS Amount: 1.000

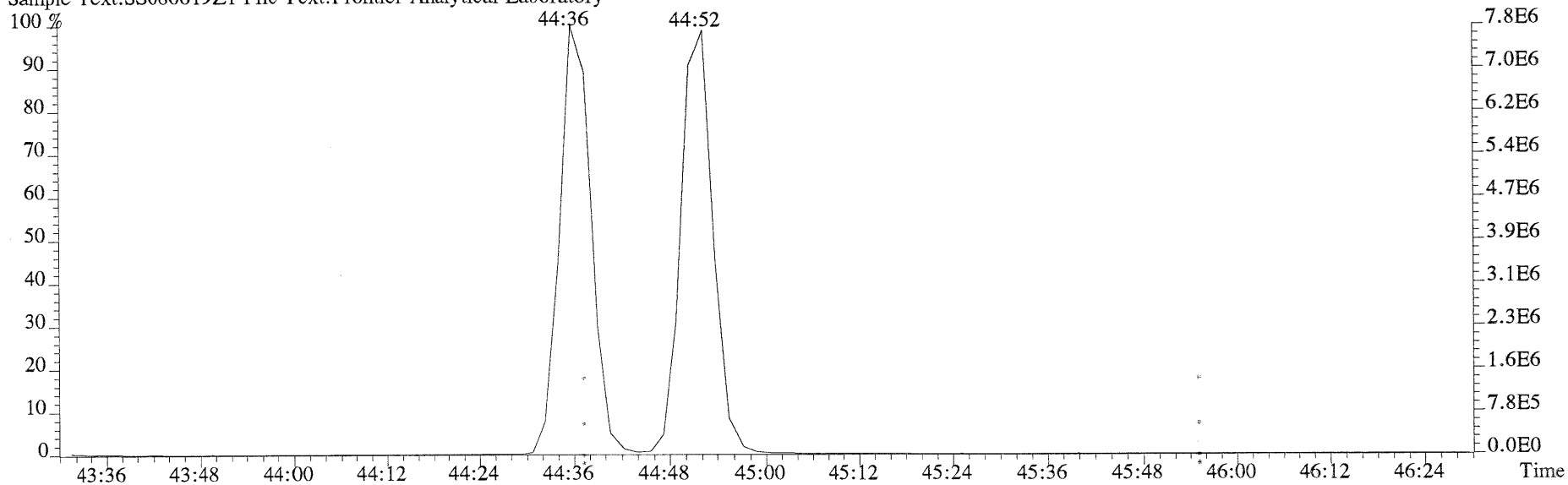
PCB-205	1.82e+07	0.90	y	50:04	1.11	48.8	2.50	-	-	*	
13C-PCB-205	3.36e+07	0.89	y	50:03	1.26	108	2.50				108
PCB-208	1.79e+07	1.37	y	49:07	1.01	49.6	2.50	-	-	*	
13C-PCB-208	3.58e+07	0.78	y	49:07	1.35	107	2.50				107
PCB-206	1.33e+07	1.36	y	51:16	1.04	49.3	2.50	-	-	*	
13C-PCB-206	2.60e+07	0.80	y	51:14	0.93	114	2.50				114
PCB-209	1.84e+07	1.20	y	52:26	1.10	51.0	2.50	-	-	*	
13C-PCB-209	3.30e+07	1.18	y	52:26	1.19	113	2.50				113
13C-PCB-194	2.46e+07	0.90	y	49:47	-	41.5	2.50				

Analyst: _____ Date: 8/7/19

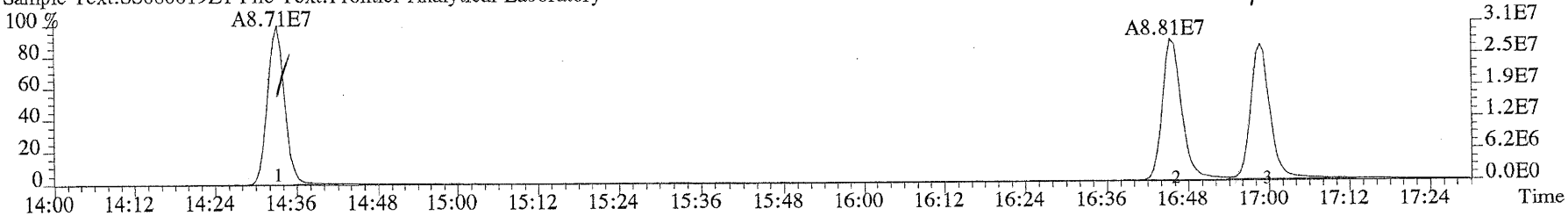
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



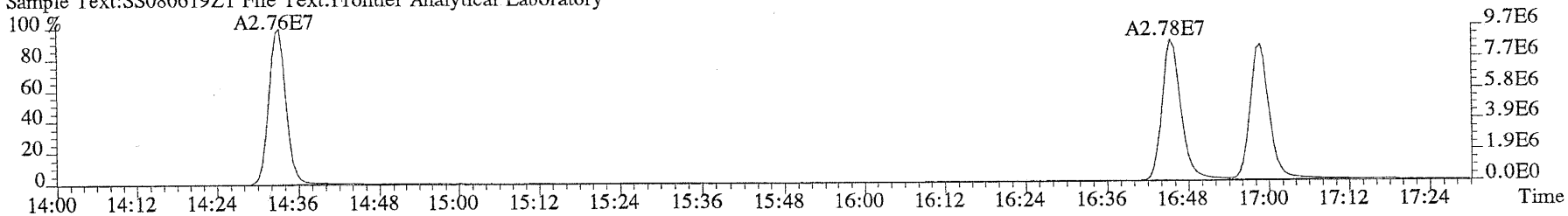
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



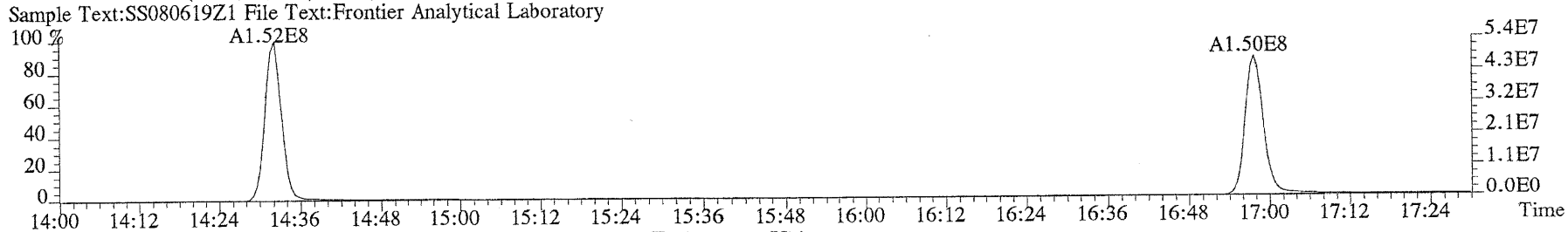
File:06AUG19Z #1-784 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



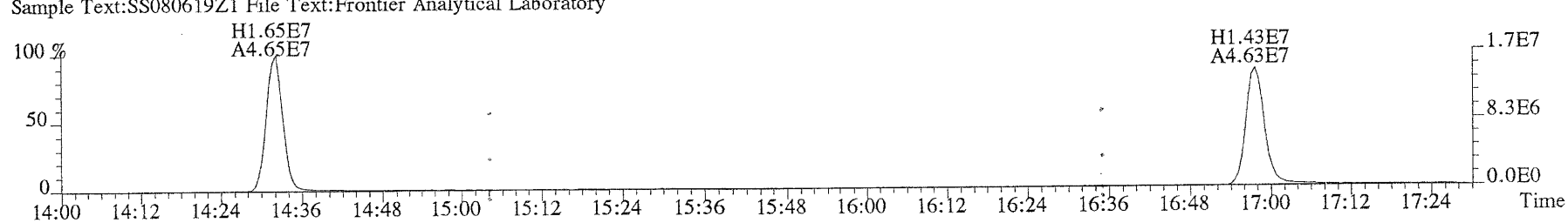
File:06AUG19Z #1-784 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



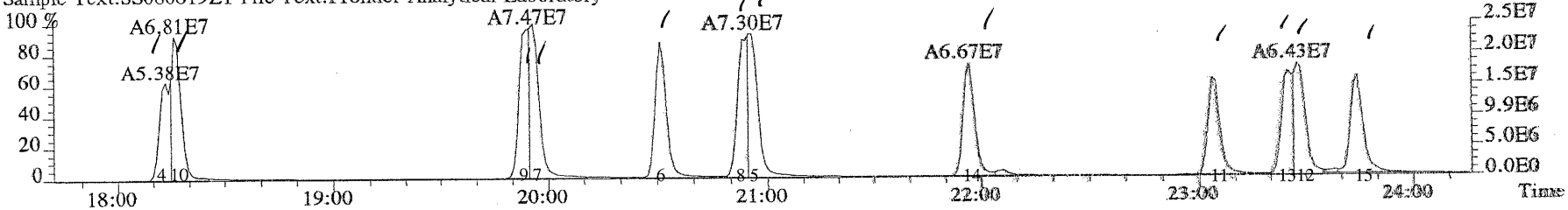
File:06AUG19Z #1-784 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



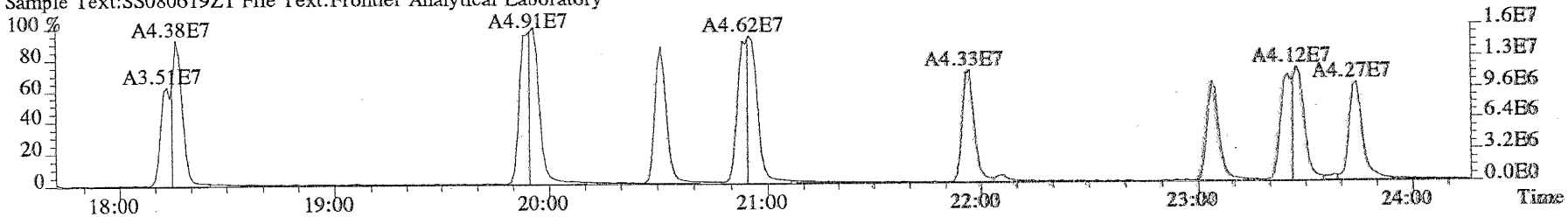
File:06AUG19Z #1-784 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



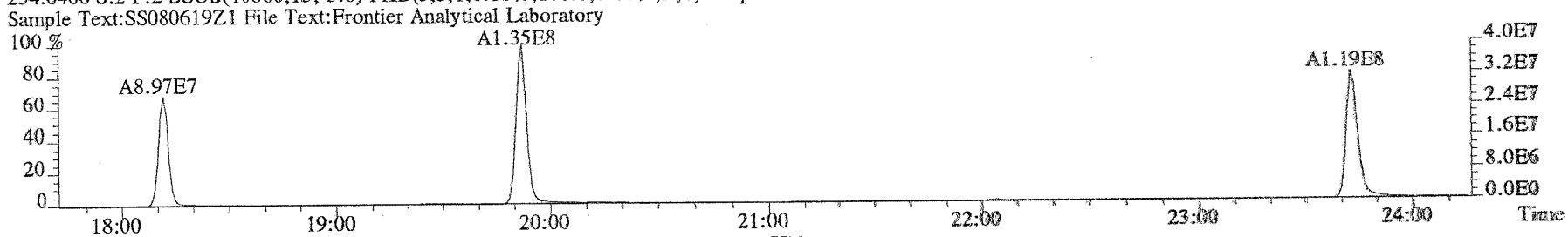
File:06AUG19Z #1-520 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



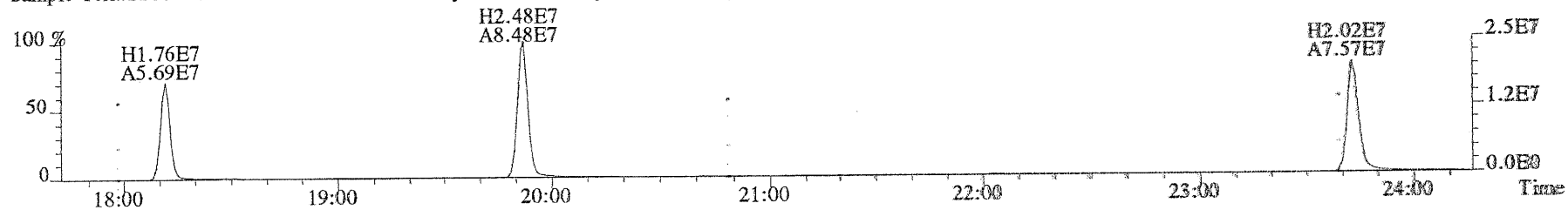
File:06AUG19Z #1-520 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



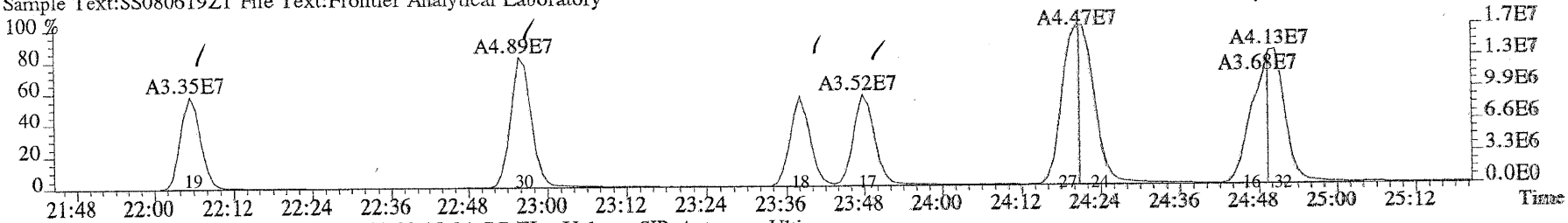
File:06AUG19Z #1-520 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



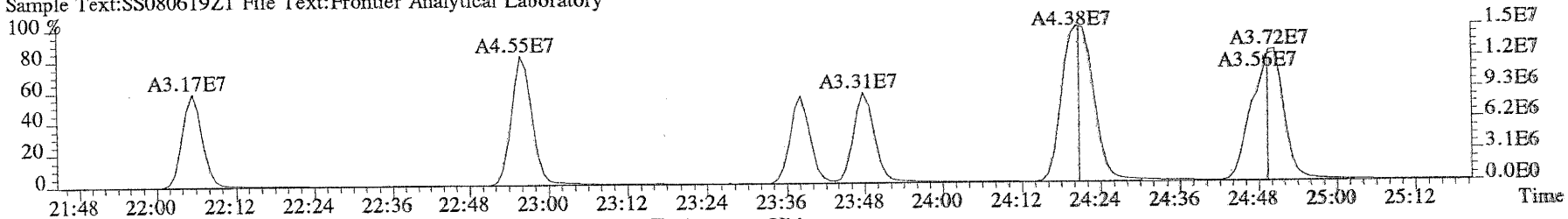
File:06AUG19Z #1-520 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



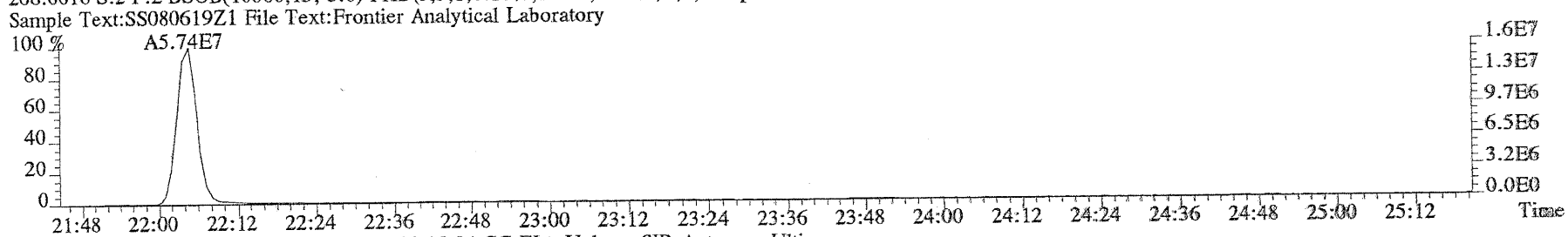
File:06AUG19Z #1-520 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



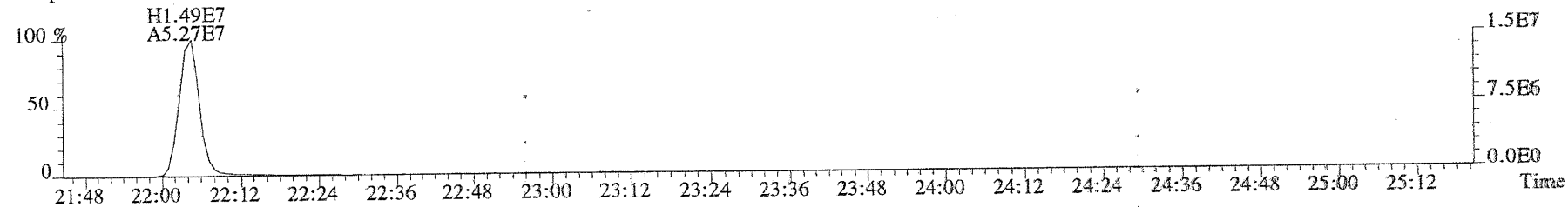
File:06AUG19Z #1-520 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



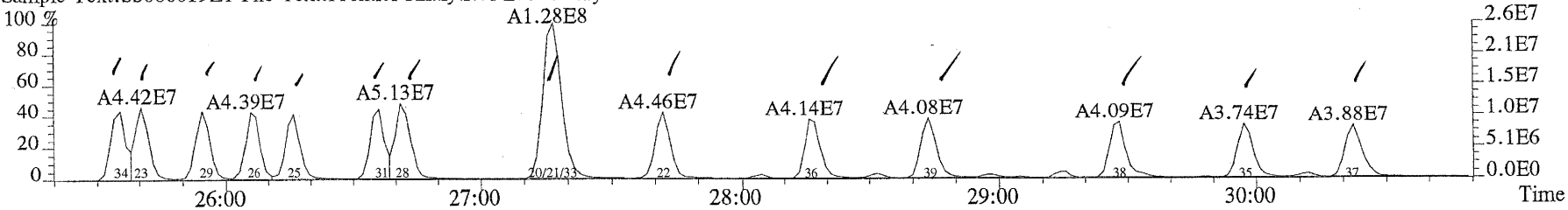
File:06AUG19Z #1-520 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



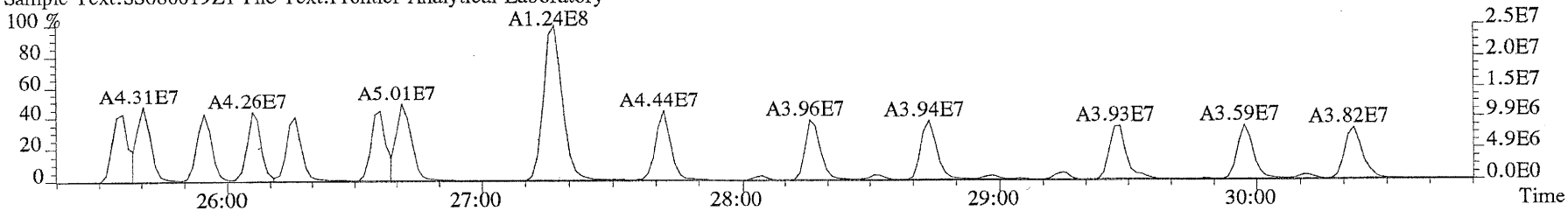
File:06AUG19Z #1-520 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



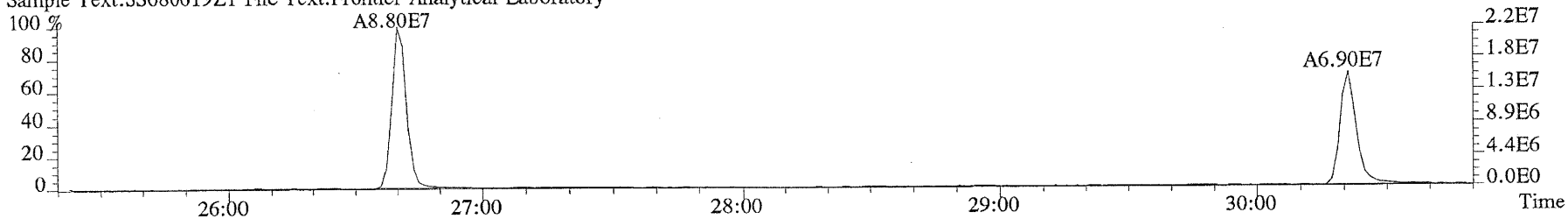
File:06AUG19Z #1-401 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



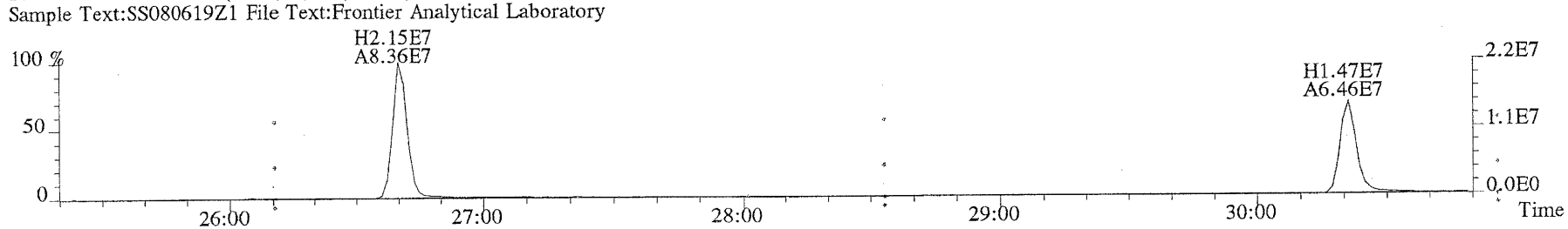
File:06AUG19Z #1-401 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



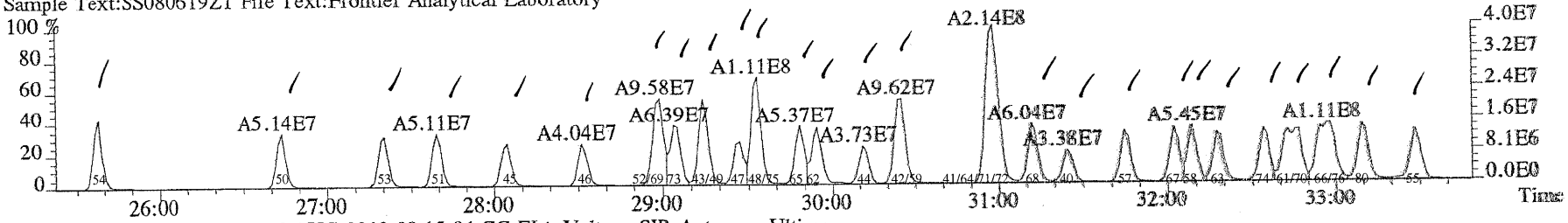
File:06AUG19Z #1-401 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



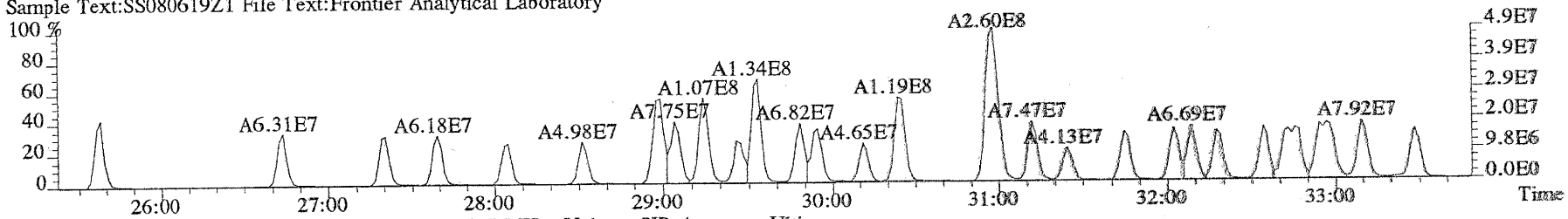
File:06AUG19Z #1-401 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



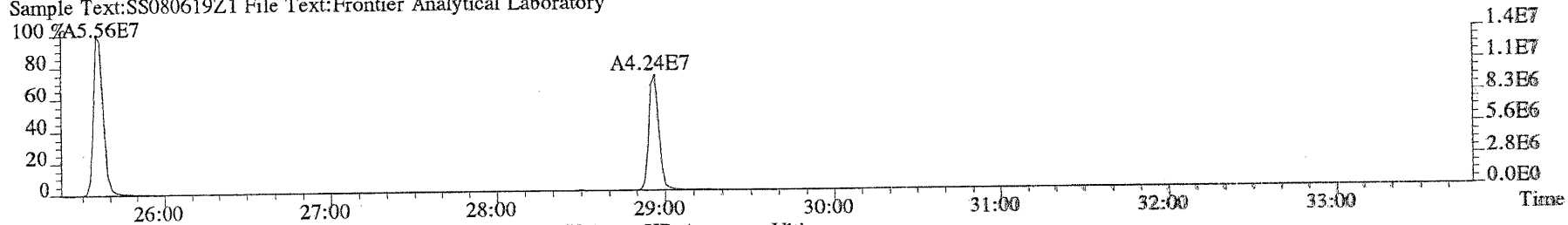
File:06AUG19Z #1-401 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



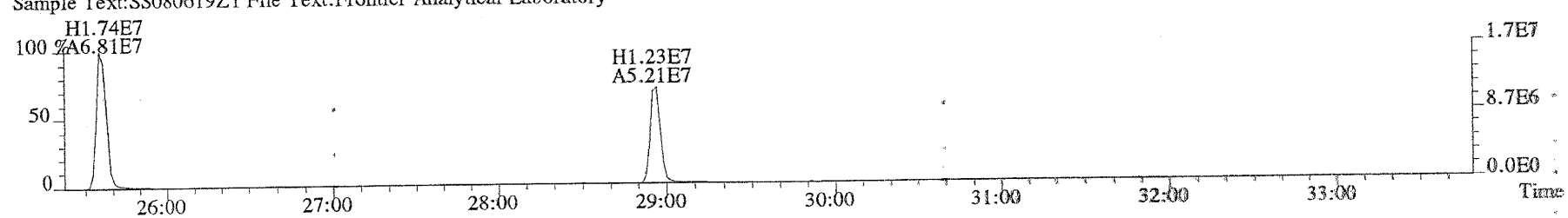
File:06AUG19Z #1-401 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



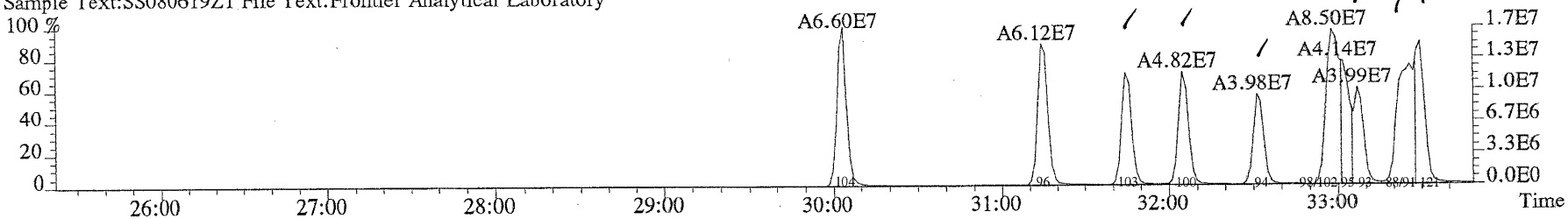
File:06AUG19Z #1-401 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



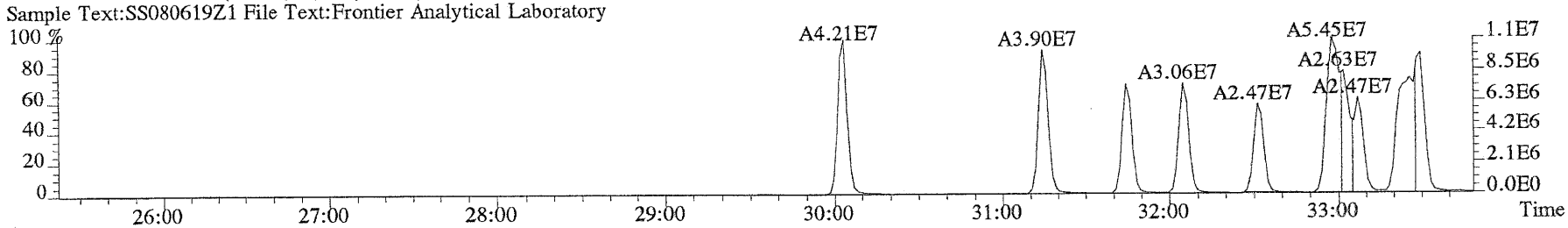
File:06AUG19Z #1-401 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



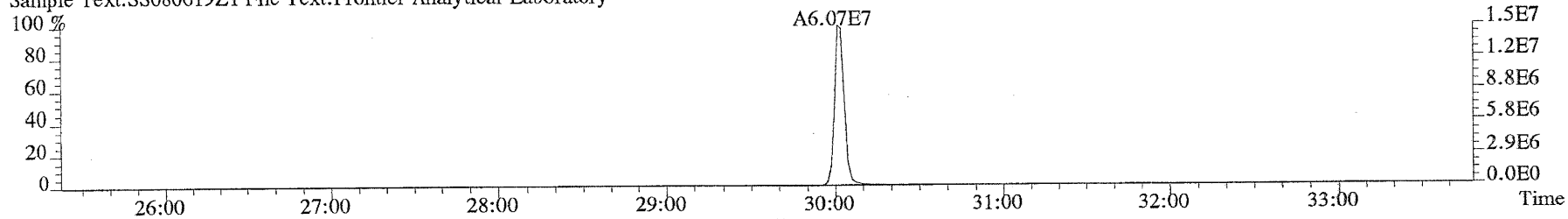
File:06AUG19Z #1-401 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



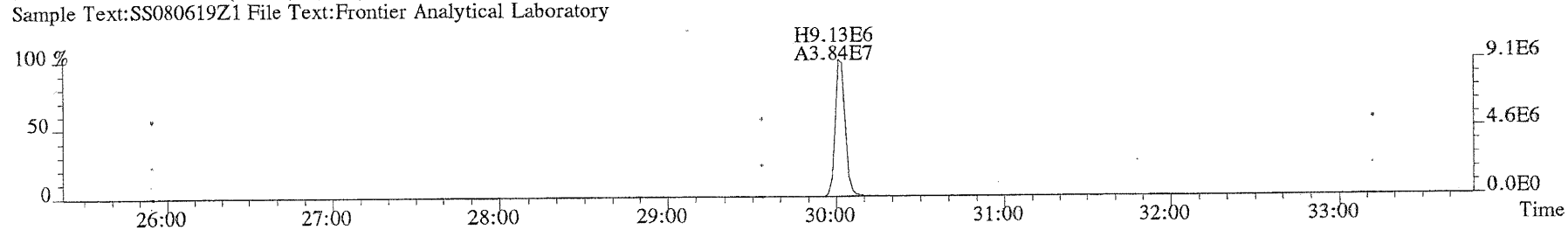
File:06AUG19Z #1-401 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



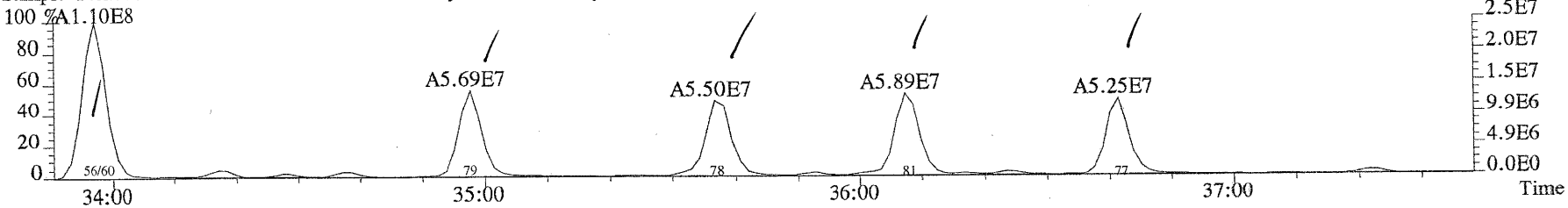
File:06AUG19Z #1-401 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



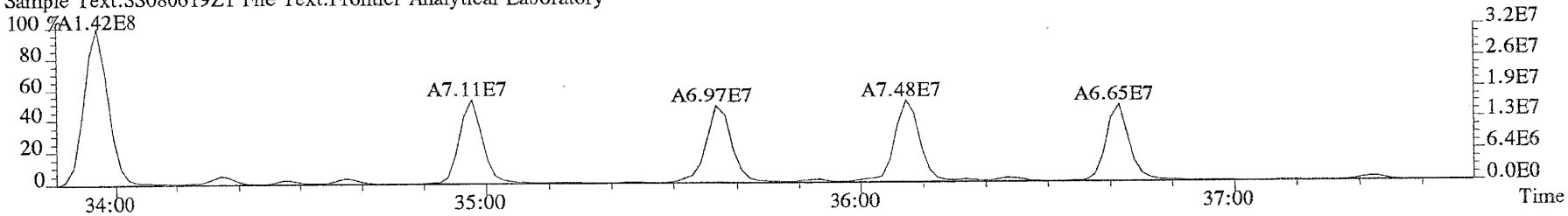
File:06AUG19Z #1-401 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



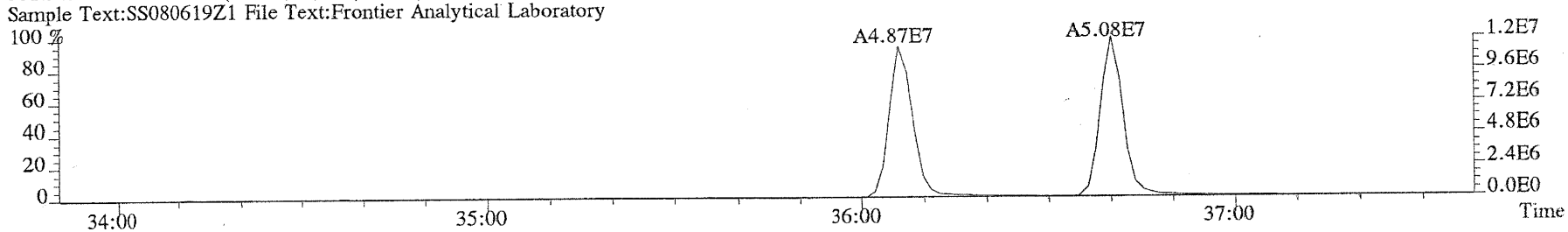
File:06AUG19Z #1-181 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



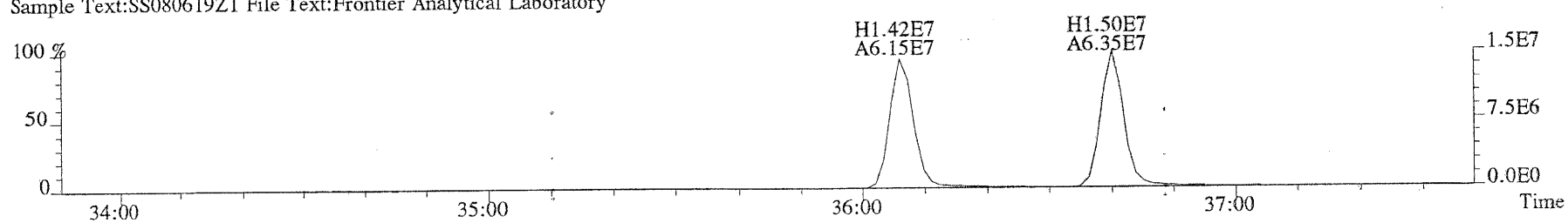
File:06AUG19Z #1-181 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



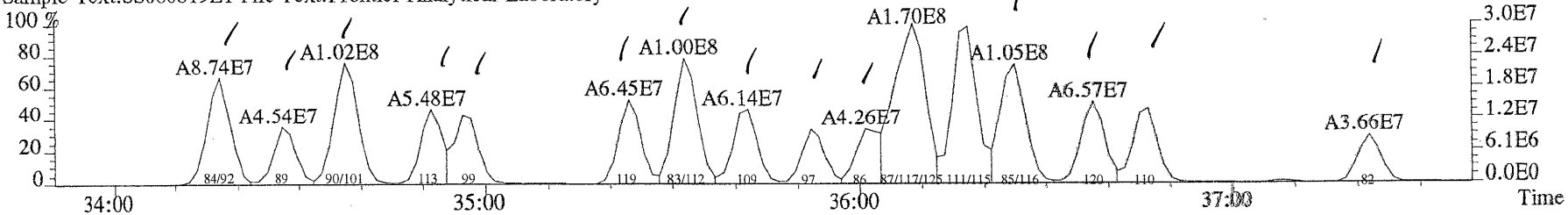
File:06AUG19Z #1-181 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



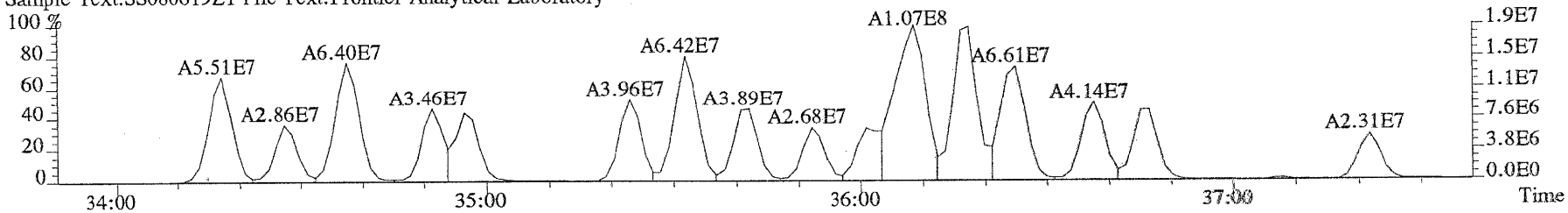
File:06AUG19Z #1-181 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



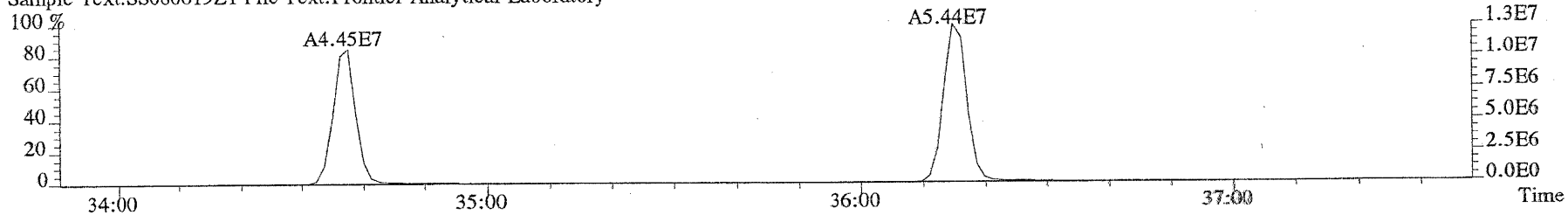
File:06AUG19Z #1-181 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



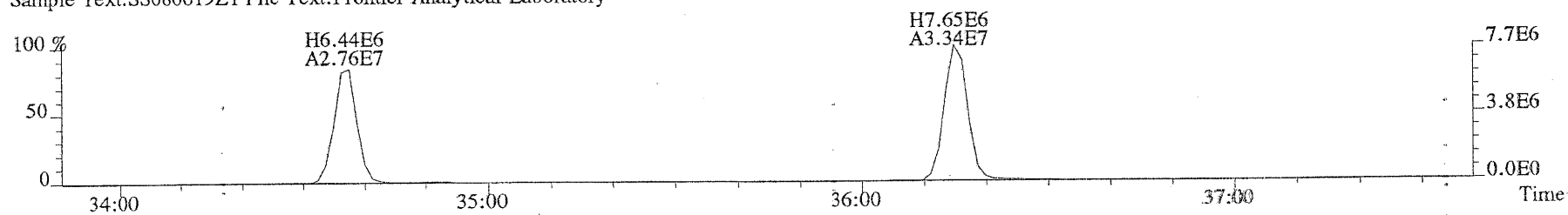
File:06AUG19Z #1-181 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



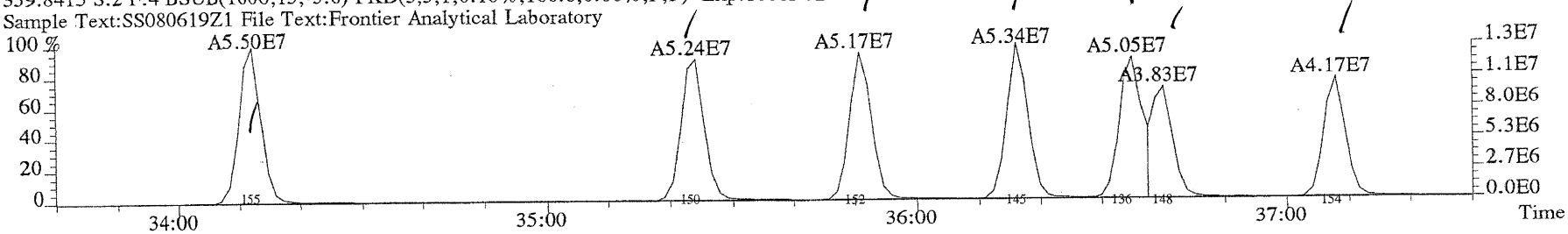
File:06AUG19Z #1-181 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



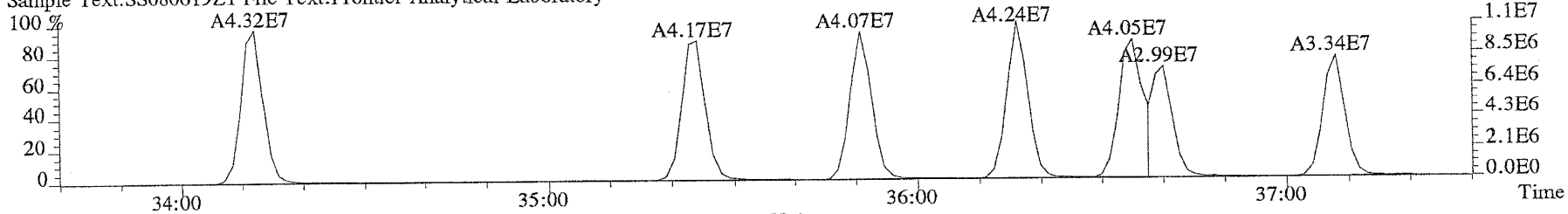
File:06AUG19Z #1-181 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



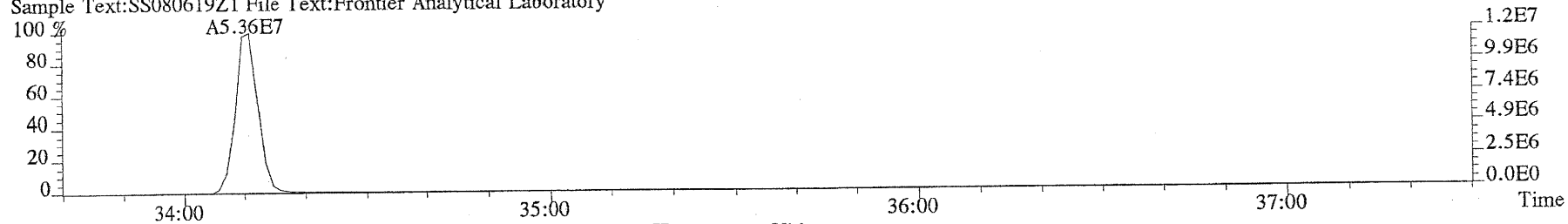
File:06AUG19Z #1-181 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



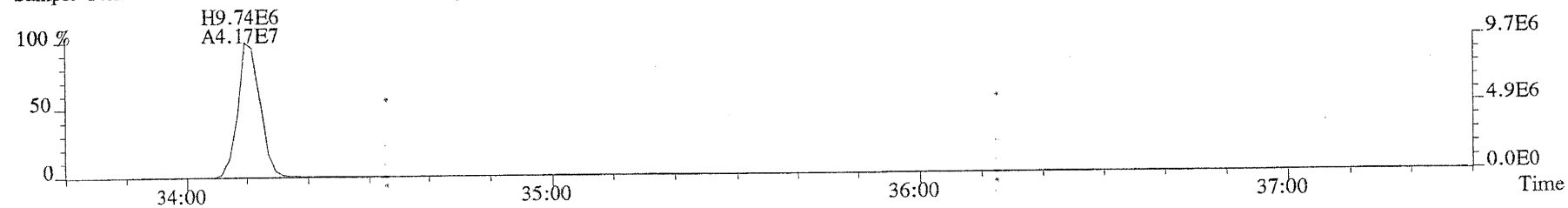
File:06AUG19Z #1-181 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



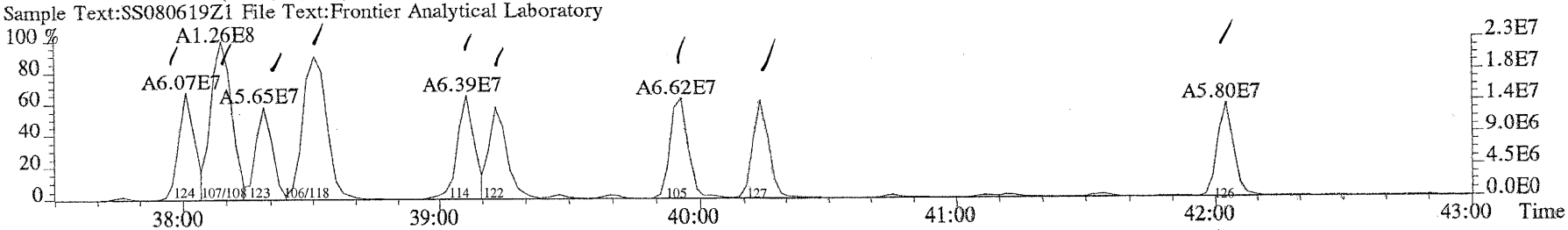
File:06AUG19Z #1-181 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



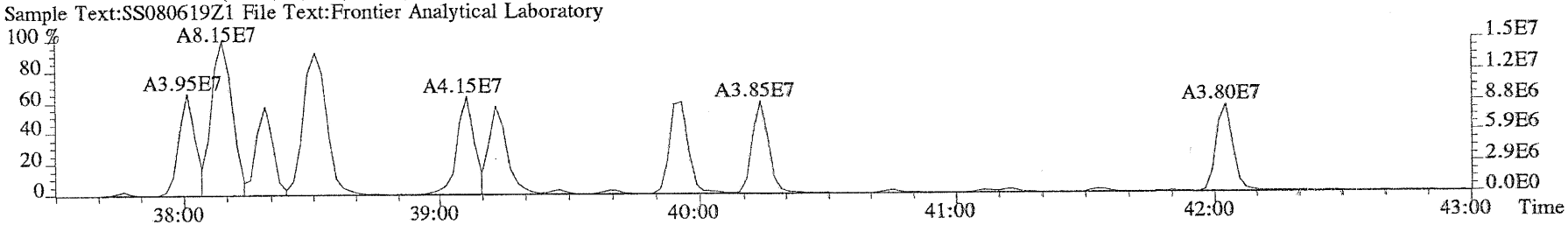
File:06AUG19Z #1-181 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



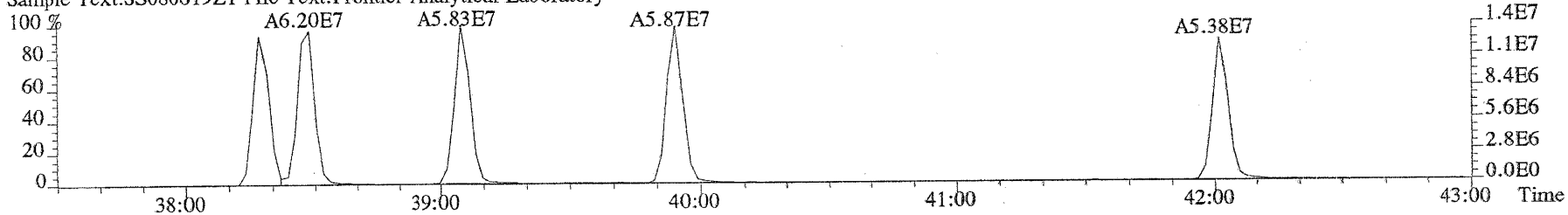
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



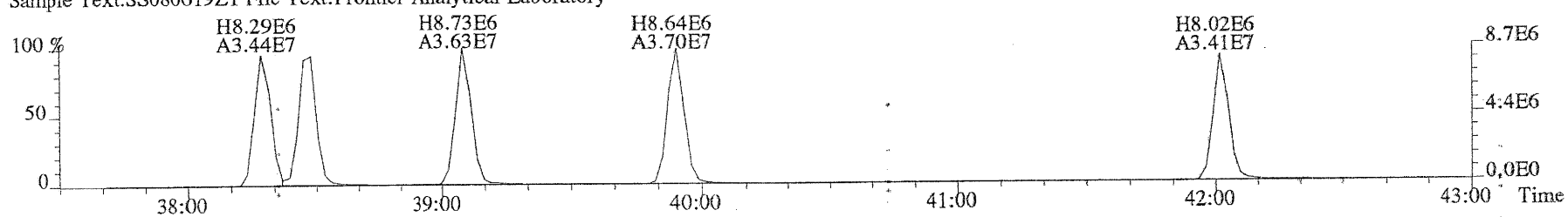
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



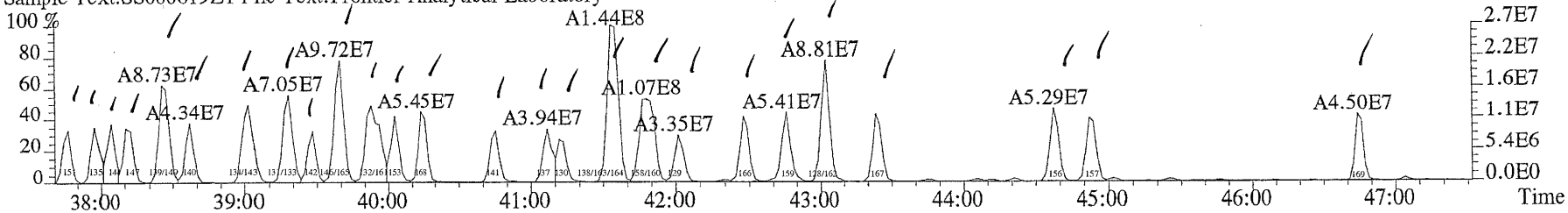
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



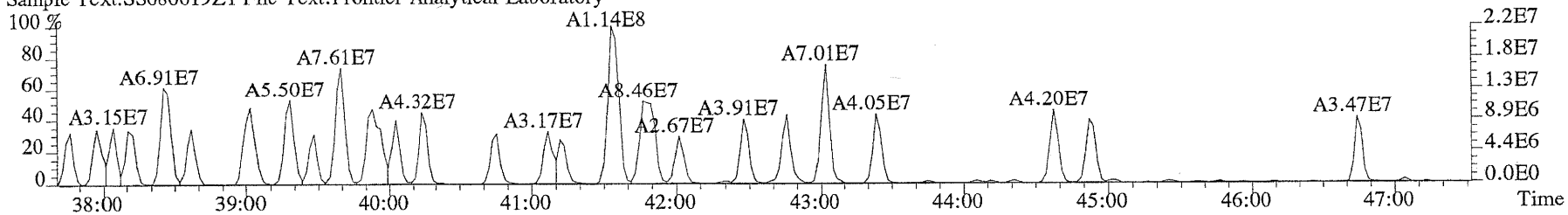
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



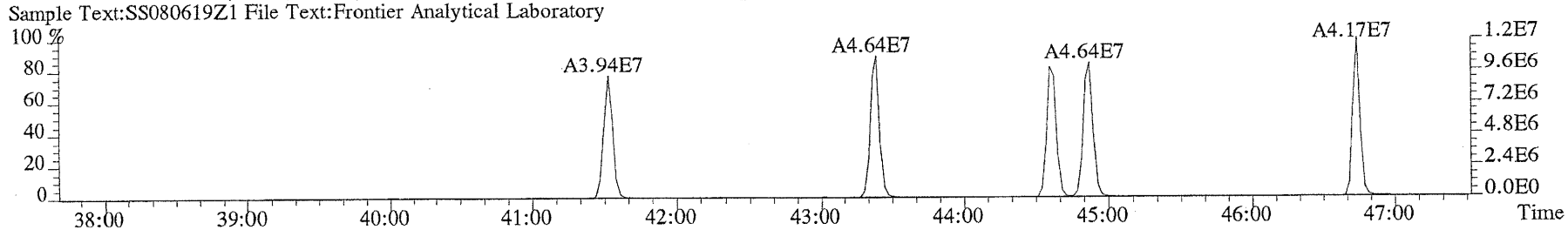
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



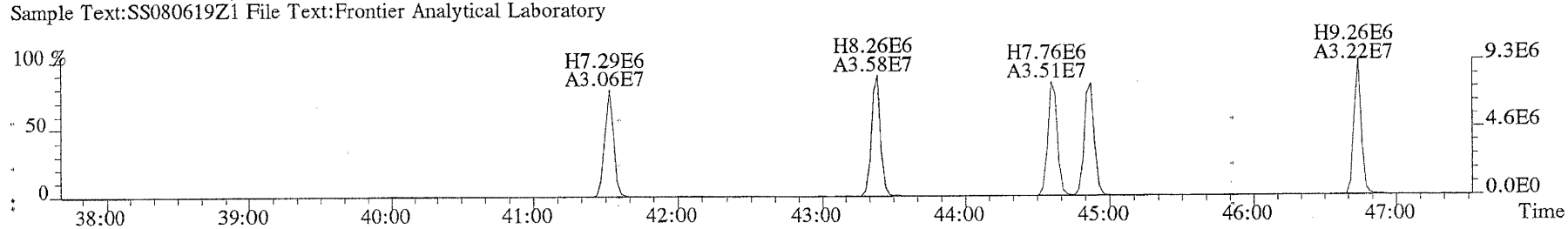
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



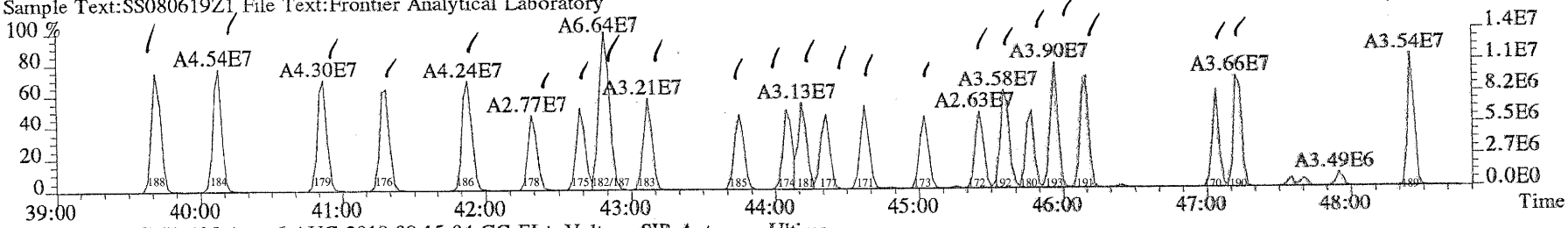
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



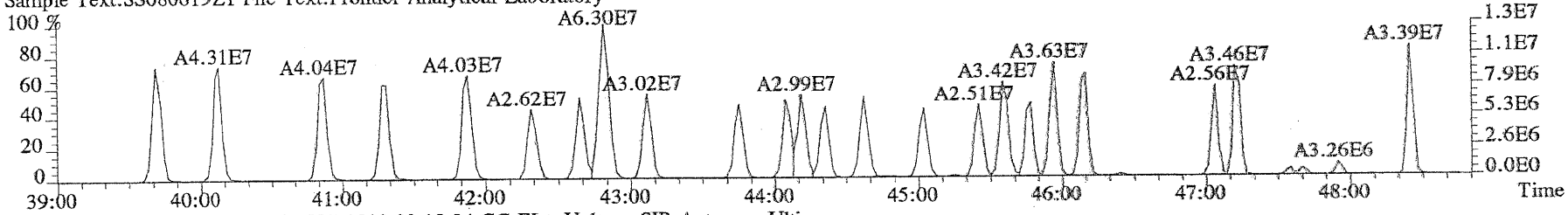
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



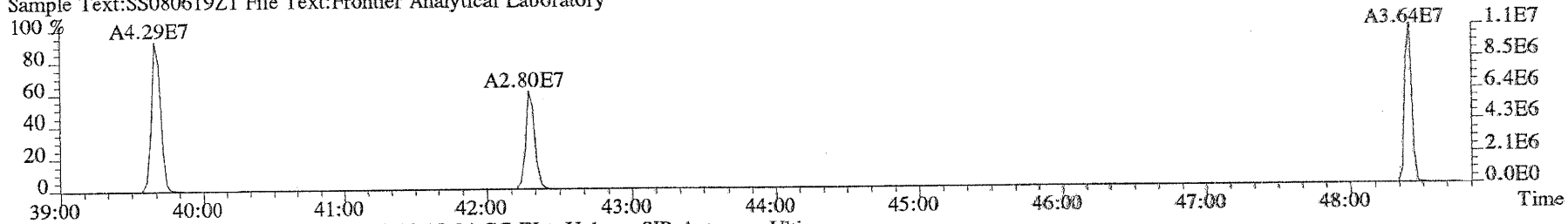
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



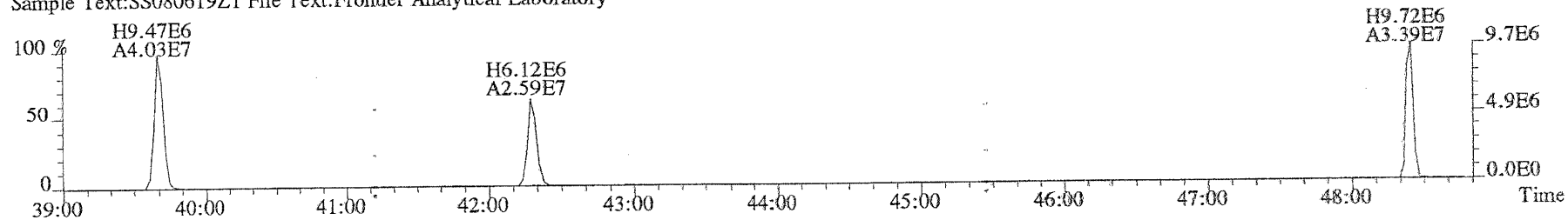
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



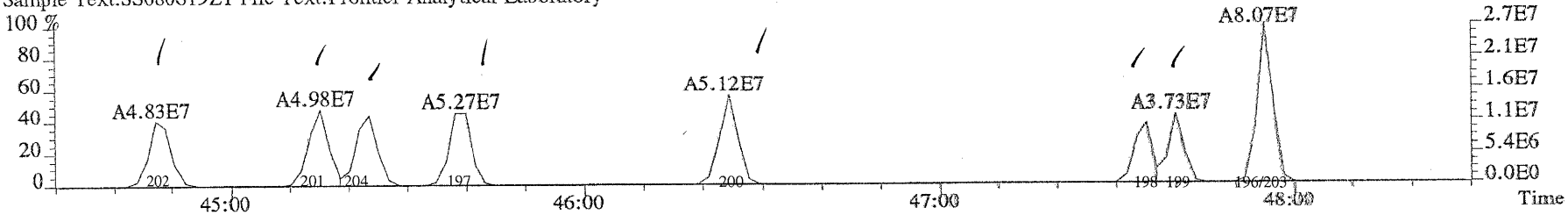
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



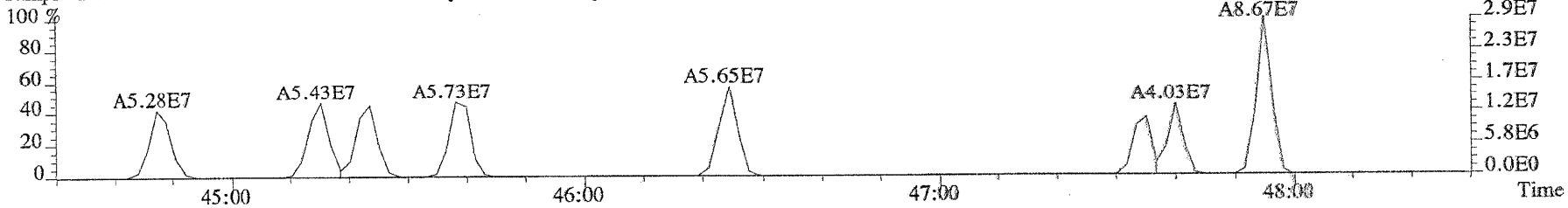
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



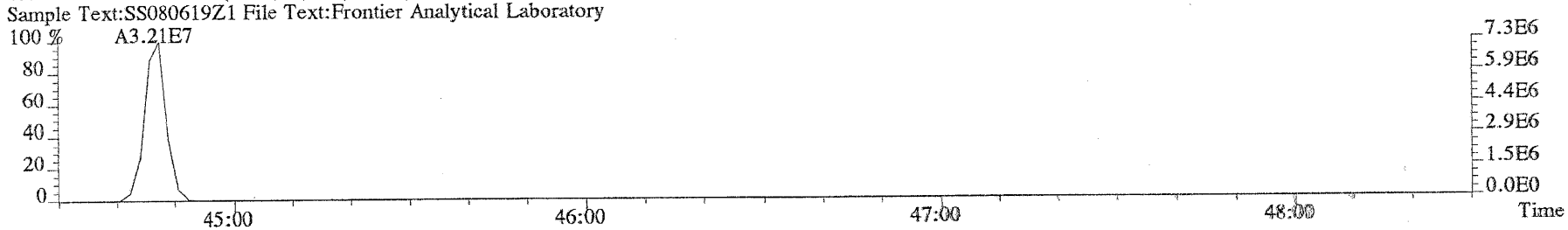
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



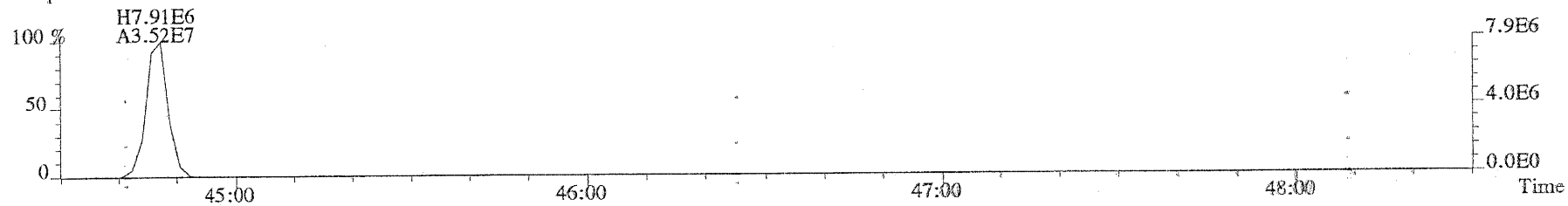
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



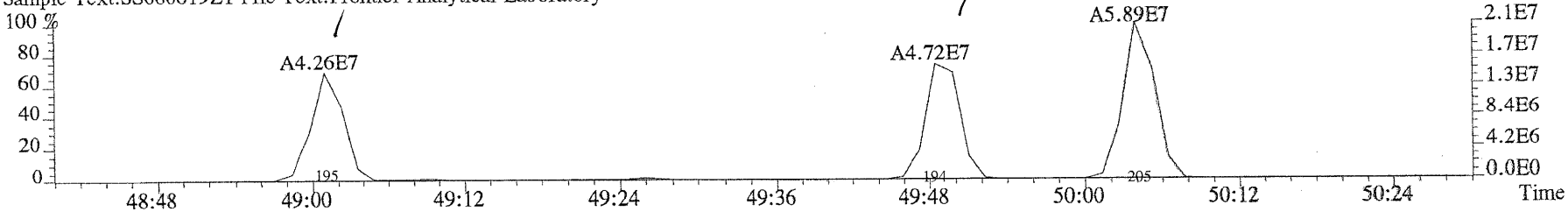
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



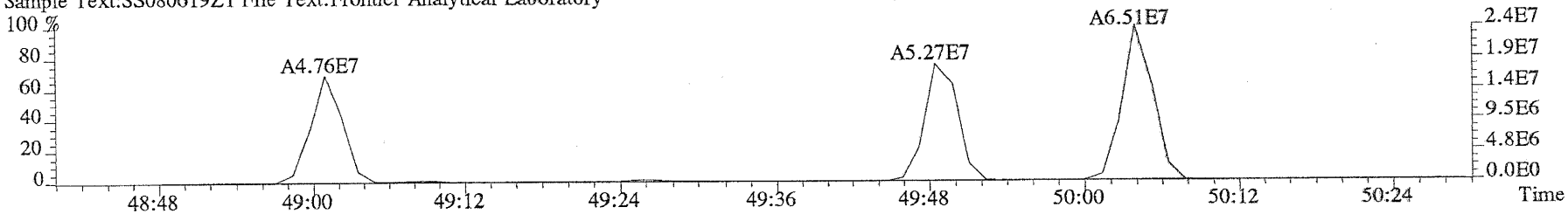
File:06AUG19Z #1-405 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



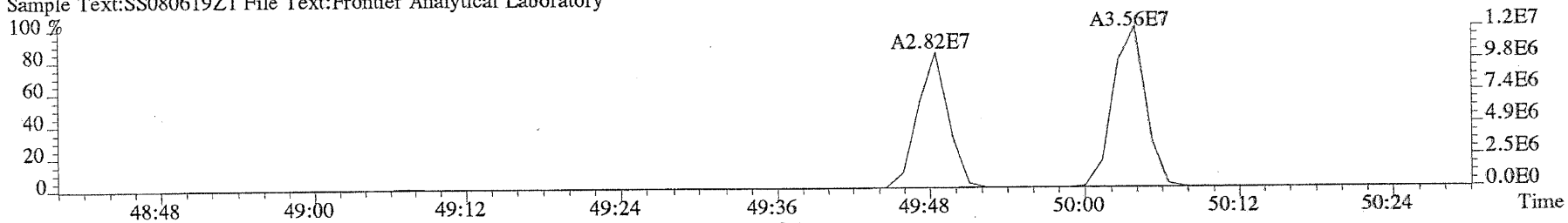
File:06AUG19Z #1-315 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



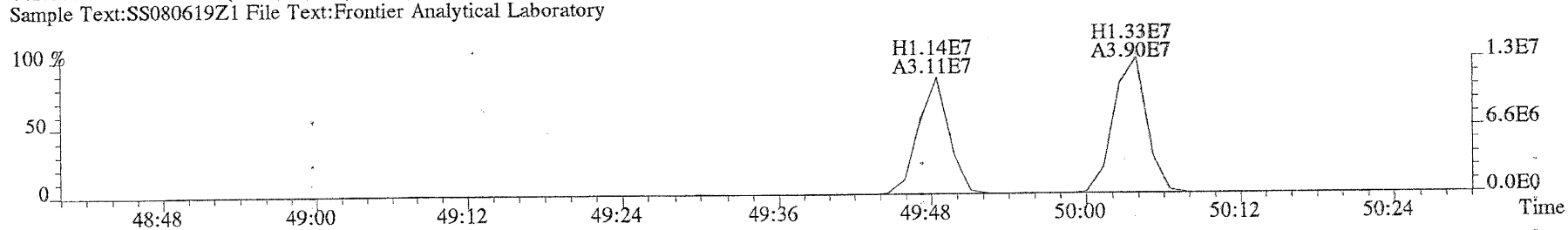
File:06AUG19Z #1-315 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



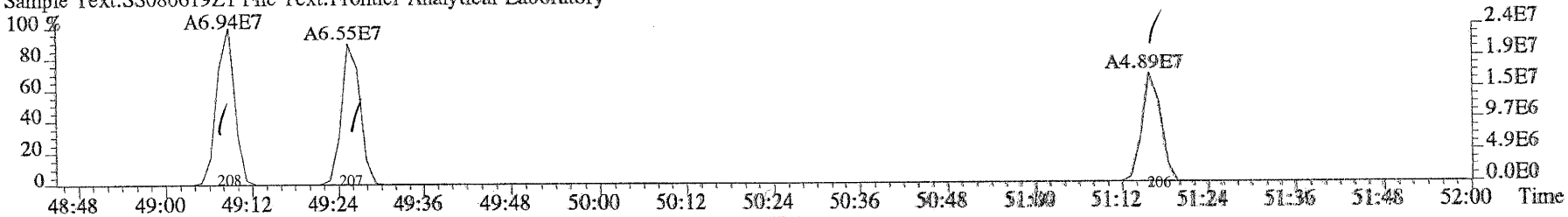
File:06AUG19Z #1-315 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



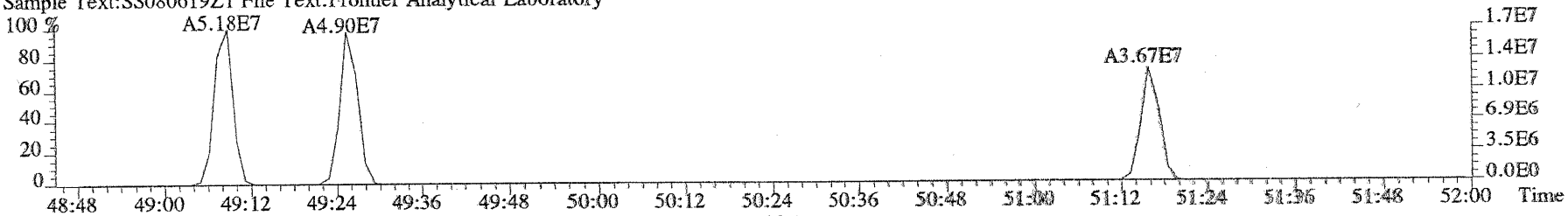
File:06AUG19Z #1-315 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



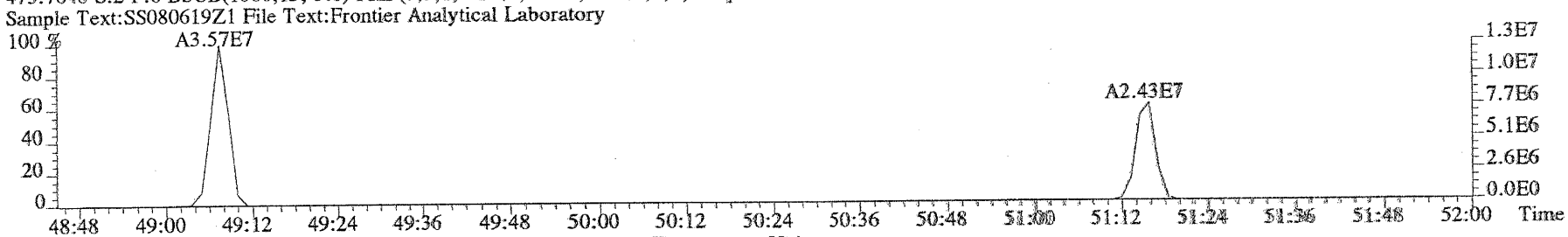
File:06AUG19Z #1-315 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



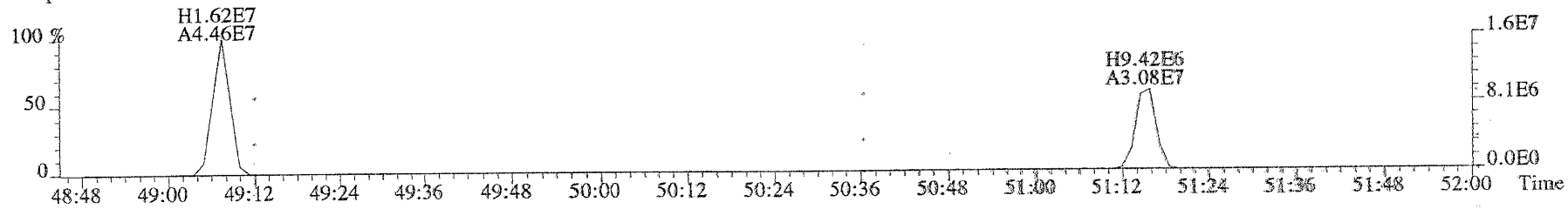
File:06AUG19Z #1-315 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



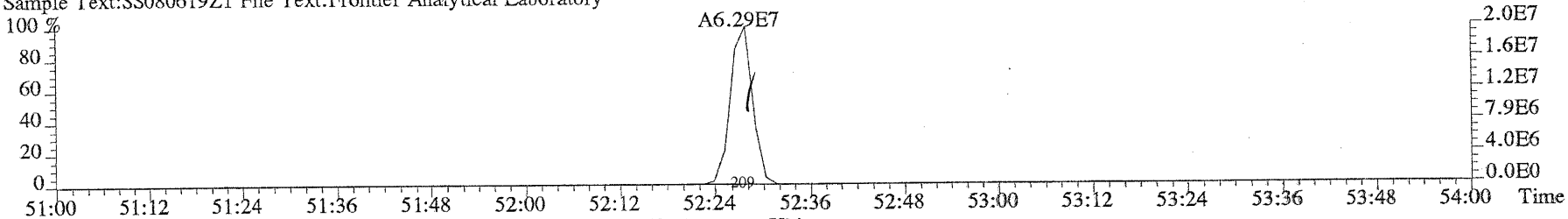
File:06AUG19Z #1-315 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



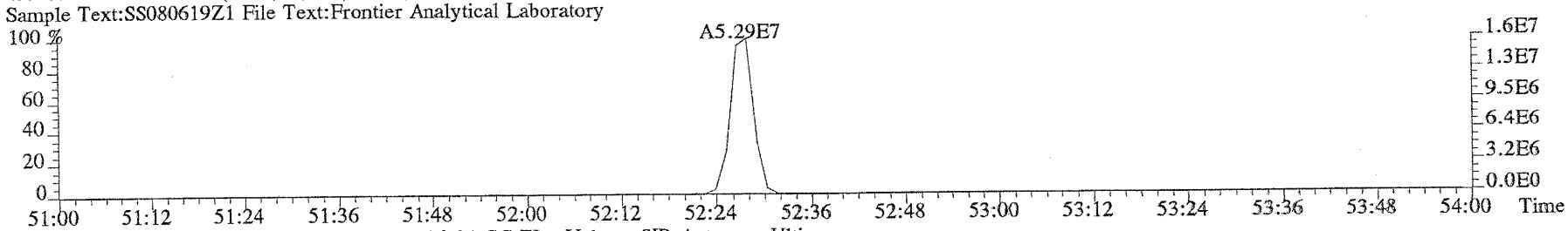
File:06AUG19Z #1-315 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



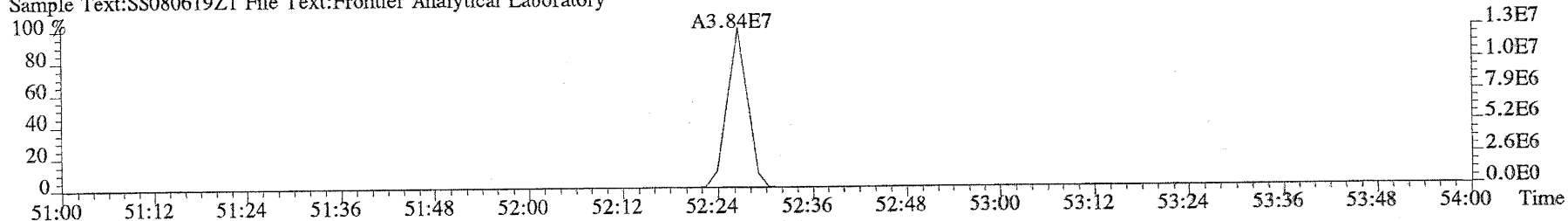
File:06AUG19Z #1-315 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



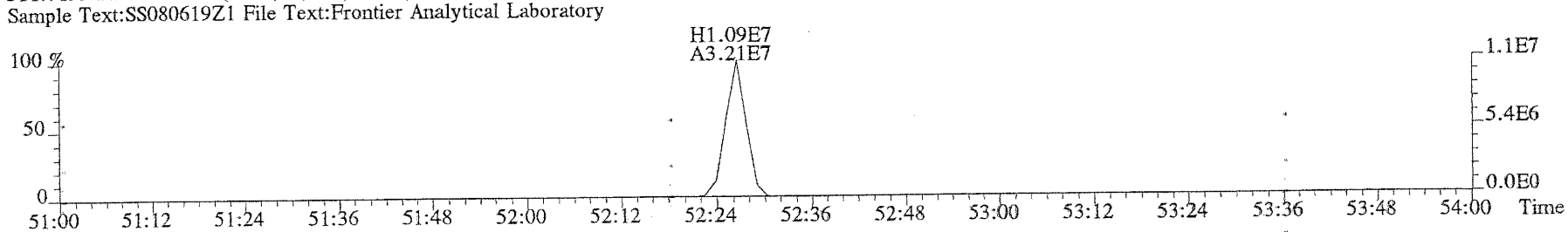
File:06AUG19Z #1-315 Acq: 6-AUG-2019 09:15:04 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080619Z1 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-315 Acq: 6-AUG-2019 09:15:04 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:SS080619Z1 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-315 Acq: 6-AUG-2019 09:15:04 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:SS080619Z1 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: 06AUG19Z Sam:16 Analysis Date: 6-AUG-19 22:54:36

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.20	2.66-3.60	y	49.9	37.5 - 62.5
PCB-3	M/M+2	3.11	2.66-3.60	y	51.2	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	51.4	37.5 - 62.5
PCB-15	M/M+2	1.52	1.33-1.79	y	51.0	37.5 - 62.5
PCB-19	M/M+2	1.08	0.88-1.20	y	53.6	37.5 - 62.5
PCB-37	M/M+2	1.06	0.88-1.20	y	51.2	37.5 - 62.5
PCB-54	M/M+2	0.83	0.65-0.89	y	49.2	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	52.0	37.5 - 62.5
PCB-81	M/M+2	0.82	0.65-0.89	y	52.9	37.5 - 62.5
PCB-104	M+2/M+4	1.56	1.32-1.78	y	50.0	37.5 - 62.5
PCB-105	M+2/M+4	1.52	1.32-1.78	y	51.6	37.5 - 62.5
PCB-114	M+2/M+4	1.52	1.32-1.78	y	53.1	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	53.2	37.5 - 62.5
PCB-123	M+2/M+4	1.57	1.32-1.78	y	53.7	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	53.3	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	51.1	37.5 - 62.5
PCB-156	M+2/M+4	1.24	1.05-1.43	y	50.5	37.5 - 62.5
PCB-157	M+2/M+4	1.28	1.05-1.43	y	51.0	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	51.0	37.5 - 62.5
PCB-169	M+2/M+4	1.25	1.05-1.43	y	50.2	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	53.3	37.5 - 62.5
PCB-189	M+2/M+4	1.04	0.89-1.21	y	50.4	37.5 - 62.5
PCB-202	M+2/M+4	0.93	0.76-1.02	y	50.5	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	52.9	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	51.4	37.5 - 62.5
PCB-208	M+4/M+6	1.37	1.13-1.53	y	51.2	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	51.2	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: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 06AUG19Z Sam:16 Analysis Date: 6-AUG-19 22:54:36

	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	3.29	2.66-3.60	y	91.9	50.0 - 145
13C-PCB-3	M/M+2	3.27	2.66-3.60	y	89.2	50.0 - 145
13C-PCB-4	M/M+2	1.61	1.33-1.79	y	104	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	83.4	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	104	50.0 - 145
13C-PCB-37	M/M+2	1.05	0.88-1.20	y	86.4	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	115	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	87.4	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	88.3	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	109	50.0 - 145
13C-PCB-105	M+2/M+4	1.63	1.32-1.78	y	95.5	50.0 - 145
13C-PCB-114	M+2/M+4	1.57	1.32-1.78	y	96.5	50.0 - 145
13C-PCB-118	M+2/M+4	1.60	1.32-1.78	y	99.5	50.0 - 145
13C-PCB-123	M+2/M+4	1.57	1.32-1.78	y	97.4	50.0 - 145
13C-PCB-126	M+2/M+4	1.56	1.32-1.78	y	89.7	50.0 - 145
13C-PCB-155	M+2/M+4	1.30	1.05-1.43	y	110	50.0 - 145
13C-PCB-156	M+2/M+4	1.32	1.05-1.43	y	91.9	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	90.8	50.0 - 145
13C-PCB-167	M+2/M+4	1.33	1.05-1.43	y	94.2	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	89.2	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	103	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	104	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	108	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	97.4	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	0.78	0.65-0.89	y	107	50.0 - 145
13C-PCB-209	M+4/M+6	1.18	0.99-1.33	y	111	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	103	65.0 - 135
13C-PCB-111	M+2/M+4	1.63	1.32-1.78	y	97.3	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	104	75.0 - 125

Analyst: _____ Date: 8/7/19

FAL ID: ST080619Z2 Filename: 06AUG19Z Sam:16 Acquired: 6-AUG-19 22:54:36 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 06AUG19Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	5.92e+07	3.20 y	14:32	1.19	49.9		2.50	-	-	*	-
13C-PCB-1	9.93e+07	3.29 y	14:31	1.02	91.9		2.50				91.9
PCB-3	5.51e+07	3.11 y	16:58	1.18	51.2		2.50	-	-	*	-
13C-PCB-3	9.16e+07	3.27 y	16:57	0.97	89.2		2.50				89.2
PCB-4	4.39e+07	1.57 y	18:11	1.04	51.4		2.50	-	-	*	-
13C-PCB-4	8.17e+07	1.61 y	18:11	0.74	104		2.50				104
PCB-15	4.48e+07	1.52 y	23:43	1.03	51.0		2.50	-	-	*	-
13C-PCB-15	8.51e+07	1.60 y	23:42	0.96	83.4		2.50				83.4
PCB-19	3.46e+07	1.08 y	22:04	1.11	53.6		2.50	-	-	*	-
13C-PCB-19	5.83e+07	1.08 y	22:03	0.53	104		2.50				104
13C-PCB-9	1.06e+08	1.60 y	19:51	-	137		2.50				
PCB-37	3.15e+07	1.06 y	30:22	1.04	51.2		2.50	-	-	*	-
13C-PCB-37	5.94e+07	1.05 y	30:21	1.57	86.4		2.50				86.4
PCB-54	4.01e+07	0.83 y	25:37	1.16	49.2		2.50	-	-	*	-
13C-PCB-54	7.00e+07	0.81 y	25:35	1.38	115		2.50				115
PCB-104	2.87e+07	1.56 y	30:02	1.08	50.0		2.50	-	-	*	-
13C-PCB-104	5.31e+07	1.59 y	30:01	1.11	109		2.50				109
13C-PCB-28	7.73e+07	1.04 y	26:40	1.71	103		2.50				103
13C-PCB-52	4.39e+07	0.81 y	28:55	-	115		2.50				
PCB-81	2.20e+07	0.82 y	36:07	1.06	52.9		2.50	-	-	*	-
13C-PCB-81	3.91e+07	0.80 y	36:06	1.50	88.3		2.50				88.3
PCB-77	2.15e+07	0.79 y	36:41	1.02	52.0		2.50	-	-	*	-
13C-PCB-77	4.04e+07	0.80 y	36:40	1.57	87.4		2.50				87.4
PCB-155	2.41e+07	1.26 y	34:11	1.02	51.1		2.50	-	-	*	-
13C-PCB-155	4.60e+07	1.30 y	34:10	1.42	110		2.50				110
13C-PCB-111	3.70e+07	1.63 y	36:15	1.29	97.3		2.50				97.3
13C-PCB-101	2.95e+07	1.64 y	34:36	-	89.8		2.50				
PCB-123	1.93e+07	1.57 y	38:19	1.03	53.7		2.50	-	-	*	-
13C-PCB-123	3.47e+07	1.57 y	38:17	1.40	97.4		2.50				97.4
PCB-118	2.11e+07	1.56 y	38:28	1.02	53.2		2.50	-	-	*	-
13C-PCB-118	3.90e+07	1.60 y	38:27	1.53	99.5		2.50				99.5
PCB-114	1.92e+07	1.52 y	39:05	1.01	53.1		2.50	-	-	*	-
13C-PCB-114	3.57e+07	1.57 y	39:05	1.45	96.5		2.50				96.5
PCB-105	1.84e+07	1.52 y	39:54	1.02	51.6		2.50	-	-	*	-
13C-PCB-105	3.51e+07	1.63 y	39:52	1.44	95.5		2.50				95.5
PCB-126	1.70e+07	1.58 y	42:02	1.02	53.3		2.50	-	-	*	-
13C-PCB-126	3.14e+07	1.56 y	42:01	1.37	89.7		2.50				89.7
PCB-167	1.68e+07	1.26 y	43:23	1.07	51.0		2.50	-	-	*	-
13C-PCB-167	3.09e+07	1.33 y	43:21	1.28	94.2		2.50				94.2
PCB-156	1.61e+07	1.24 y	44:37	1.10	50.5		2.50	-	-	*	-
13C-PCB-156	2.90e+07	1.32 y	44:36	1.24	91.9		2.50				91.9
PCB-157	1.68e+07	1.28 y	44:52	1.06	51.0		2.50	-	-	*	-
13C-PCB-157	3.10e+07	1.30 y	44:50	1.34	90.8		2.50				90.8
PCB-169	1.51e+07	1.25 y	46:44	1.06	50.2		2.50	-	-	*	-
13C-PCB-169	2.83e+07	1.29 y	46:44	1.24	89.2		2.50				89.2
PCB-188	1.84e+07	1.06 y	39:41	1.02	53.3		2.50	-	-	*	-
13C-PCB-188	3.40e+07	1.07 y	39:39	1.29	103		2.50				103
PCB-189	1.41e+07	1.04 y	48:24	0.99	50.4		2.50	-	-	*	-
13C-PCB-189	2.83e+07	1.07 y	48:23	1.07	104		2.50				104
PCB-202	1.50e+07	0.93 y	44:47	0.99	50.5		2.50	-	-	*	-
13C-PCB-202	3.01e+07	0.90 y	44:45	1.09	108		2.50				108
13C-PCB-178	2.14e+07	1.08 y	42:17	0.81	104		2.50				104
13C-PCB-138	2.55e+07	1.28 y	41:30	-	79.4		2.50				

FAL ID: ST080619Z2 Filename: 06AUG19Z Sam:16 Acquired: 6-AUG-19 22:54:36 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 06AUG19Z GC Column: DB1MS Amount: 1.000

PCB-205	1.82e+07	0.90	y	50:04	1.02	52.9	2.50	-	-	*	-
13C-PCB-205	3.36e+07	0.89	y	50:03	1.40	97.4	2.50				97.4
PCB-208	1.79e+07	1.37	y	49:07	0.98	51.2	2.50	-	-	*	-
13C-PCB-208	3.58e+07	0.78	y	49:07	1.36	107	2.50				107
PCB-206	1.33e+07	1.36	y	51:16	0.99	51.4	2.50	-	-	*	-
13C-PCB-206	2.60e+07	0.80	y	51:14	1.01	105	2.50				105
PCB-209	1.84e+07	1.20	y	52:26	1.09	51.2	2.50	-	-	*	-
13C-PCB-209	3.30e+07	1.18	y	52:26	1.21	111	2.50				111
13C-PCB-194	2.46e+07	0.90	y	49:47	-	80.4	2.50				

Analyst: Date: 8/7/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:06AUG19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

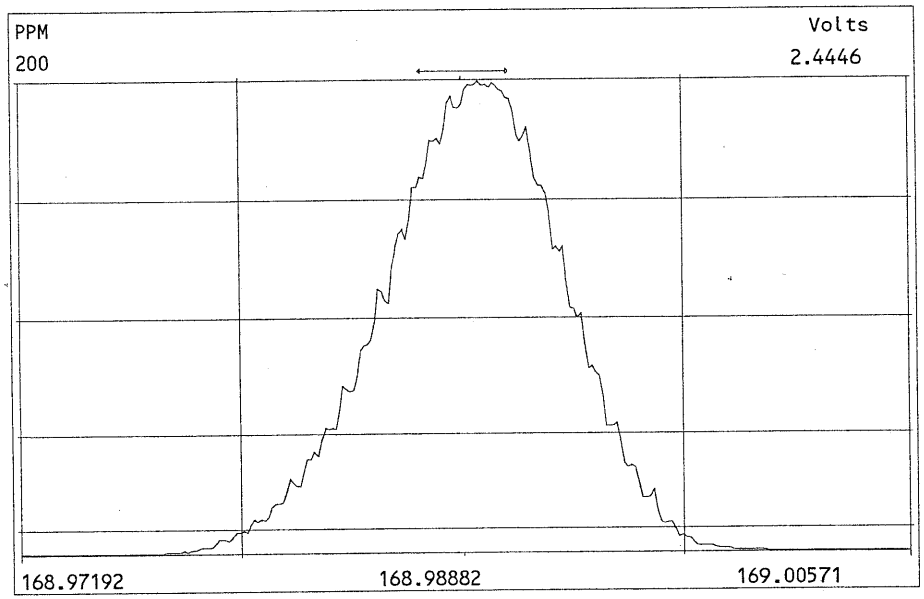
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
06AUG19Z	1	ST080619Z1	1668 CS3 R181204D	6-AUG-19 08:16:44	ST080619Z1	ST080619Z2	BS
06AUG19Z	2	SS080619Z1	Daily 209 190408A	6-AUG-19 09:15:04	ST080619Z1	ST080619Z2	BS
06AUG19Z	3	04993-001-0001-OPR	OPR	6-AUG-19 10:13:50	ST080619Z1	ST080619Z2	BS
06AUG19Z	4	04993-001-0001-MB	Method Blank	6-AUG-19 11:12:36	ST080619Z1	ST080619Z2	BS
06AUG19Z	5	12512-001-0001-SA	LDW-Y2-IN-ENR-CB-SSWI	6-AUG-19 12:10:57	ST080619Z1	ST080619Z2	BS
06AUG19Z	6	12512-002-0001-SA	LDW-Y2-IN-ENR-CC-SSWI	6-AUG-19 13:09:43	ST080619Z1	ST080619Z2	BS
06AUG19Z	7	12512-003-0001-SA	LDW-Y2-IN-ENR-CD-SSWI	6-AUG-19 14:08:29	ST080619Z1	ST080619Z2	BS
06AUG19Z	8	12512-004-0001-SA	LDW-Y2-IN-ENR-CE-SSWI	6-AUG-19 15:06:50	ST080619Z1	ST080619Z2	BS
06AUG19Z	9	12512-006-0001-SA	LDW-Y2-SC-ENR+AC-CB-S010	6-AUG-19 16:05:12	ST080619Z1	ST080619Z2	BS
06AUG19Z	10	12512-007-0001-SA	LDW-Y2-SC-ENR+AC-CC-S010	6-AUG-19 17:03:36	ST080619Z1	ST080619Z2	BS
06AUG19Z	11	12512-009-0001-SA	LDW-Y2-SC-ENR+AC-CE-S010	6-AUG-19 18:02:23	ST080619Z1	ST080619Z2	BS
06AUG19Z	12	12512-010-0001-SA	LDW-Y2-SC-ENR+AC-CF-S010	6-AUG-19 19:01:09	ST080619Z1	ST080619Z2	BS
06AUG19Z	13	12512-011-0001-SA	LDW-Y2-SC-ENR-CA-S010	6-AUG-19 19:59:30	ST080619Z1	ST080619Z2	BS
06AUG19Z	14	SB080619Z1	Solvent Blank	6-AUG-19 20:57:51	ST080619Z1	ST080619Z2	BS
06AUG19Z	15	QC080619Z1	KQC	6-AUG-19 21:56:12	ST080619Z1	ST080619Z2	BS
06AUG19Z	16	ST080619Z2	1668 CS3 R181204D	6-AUG-19 22:54:36	ST080619Z1	ST080619Z2	BS

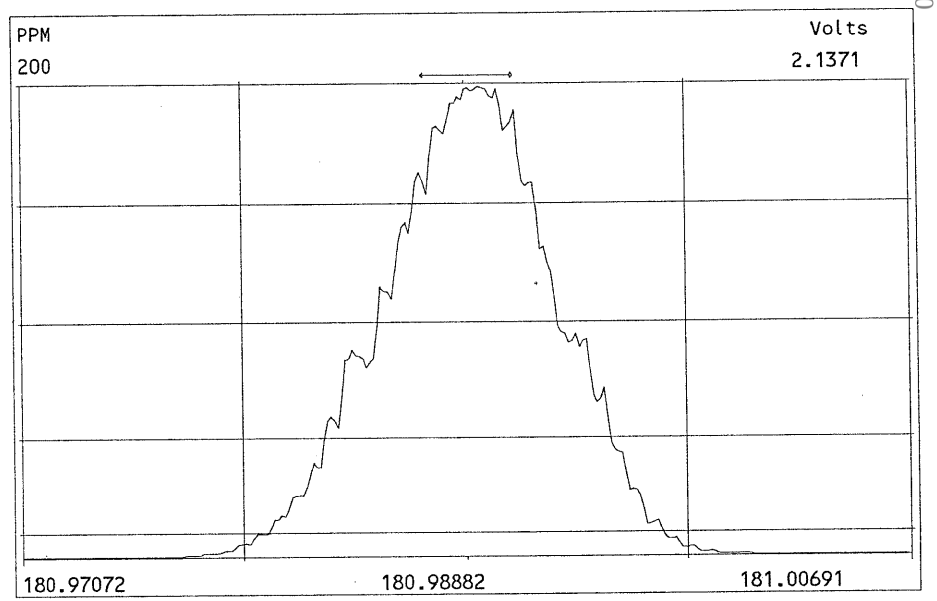
8/7/19

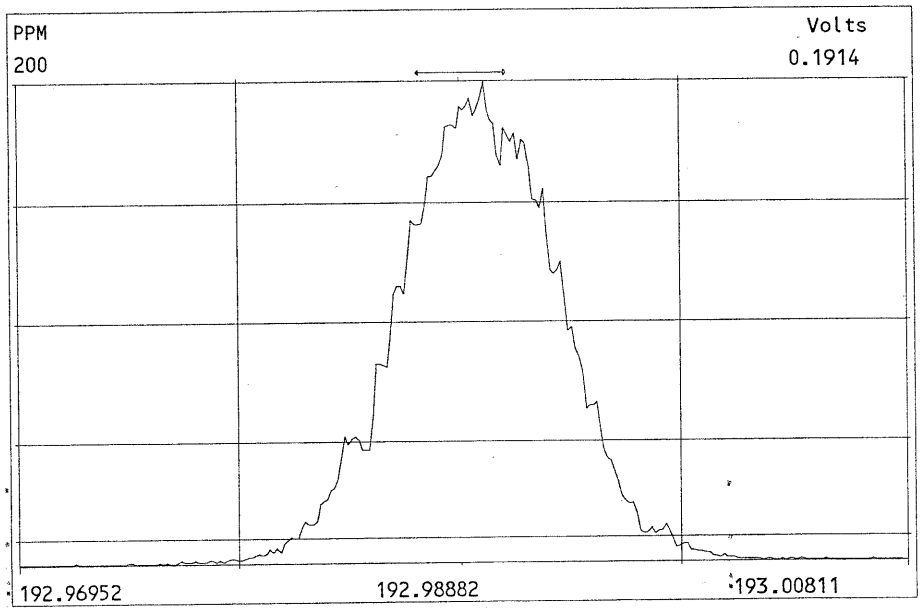
Data Backed Up:_____

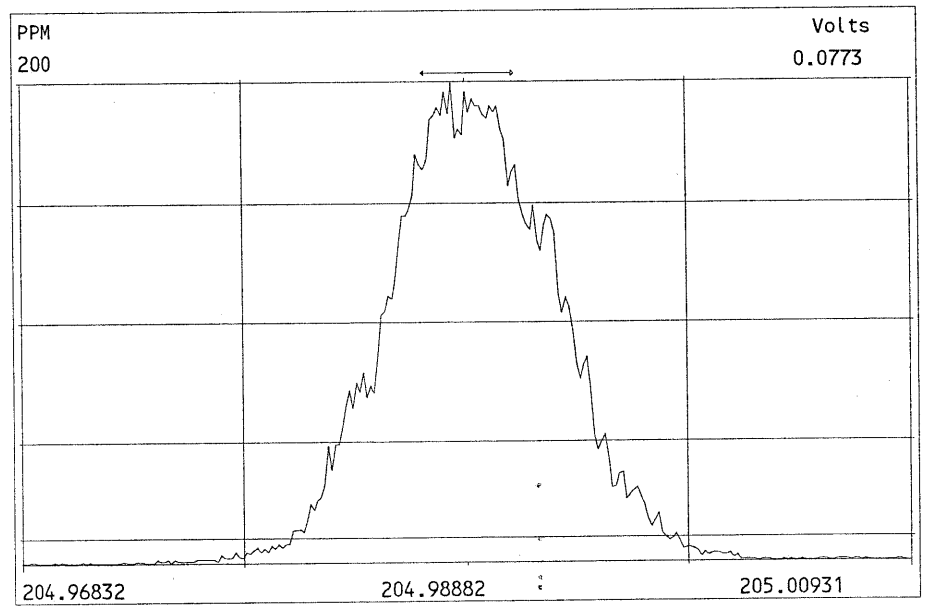
Date:_____

Peak Locate Examination: 6-AUG-2019:08:14 File:06AUG19Z
Experiment:1668PCB Function:1 Reference:PFK

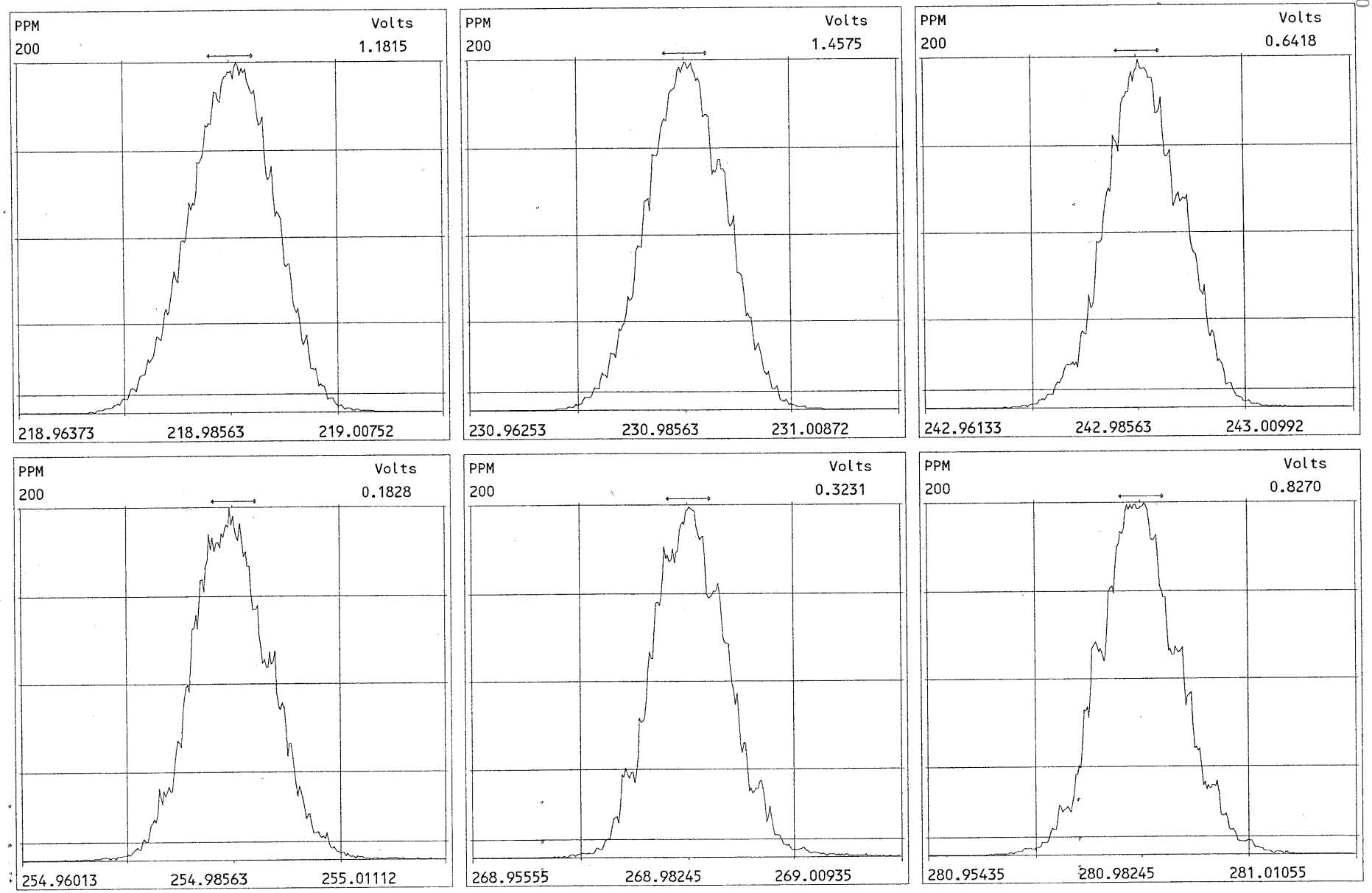




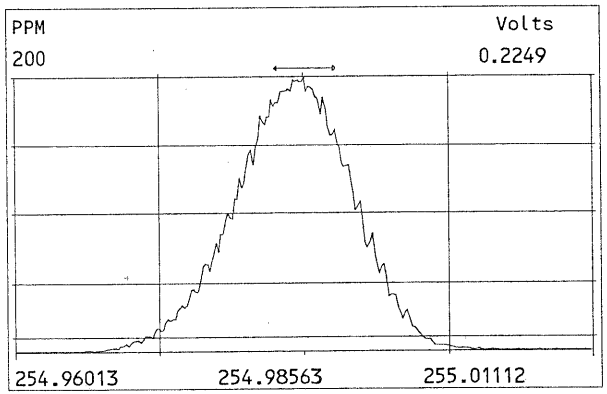


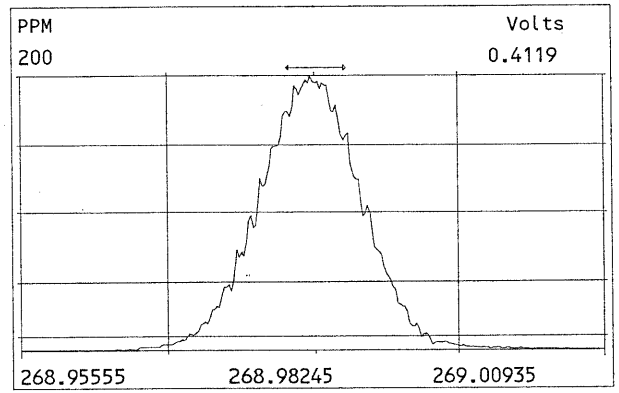


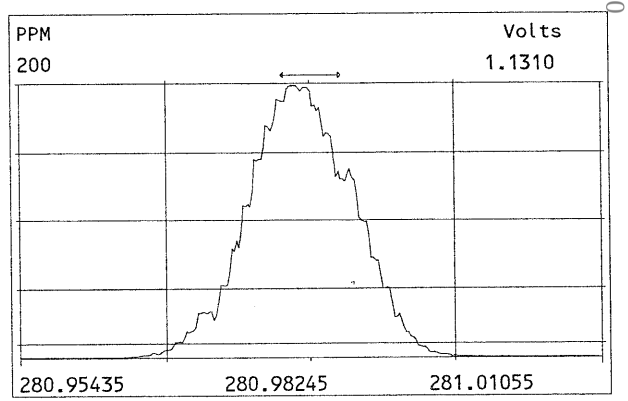
Peak Locate Examination: 6-AUG-2019:08:14 File:06AUG19Z
Experiment:1668PCB Function:2 Reference:PFK

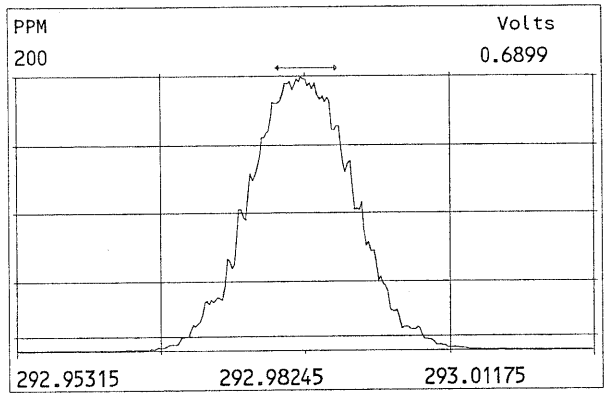


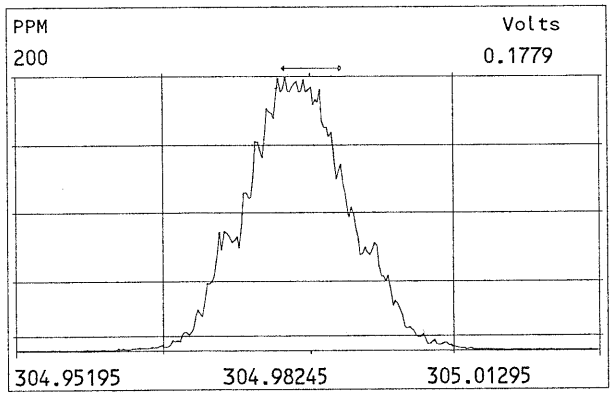
Peak Locate Examination: 6-AUG-2019:08:14 File:06AUG19Z
Experiment:1668PCB Function:3 Reference:PFK

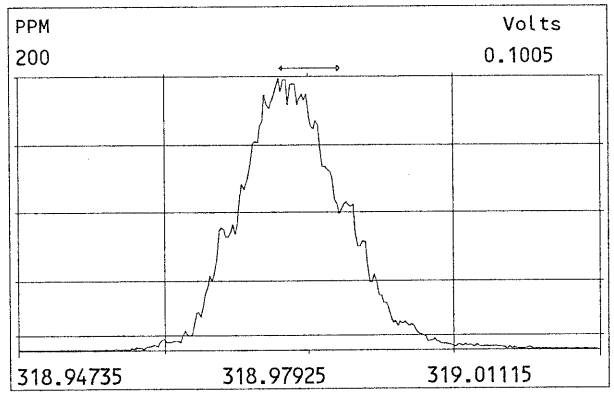


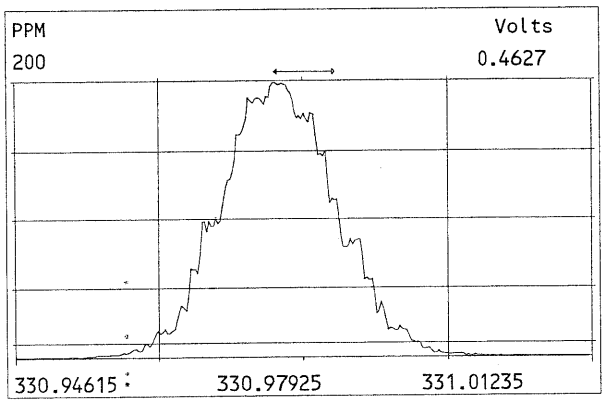


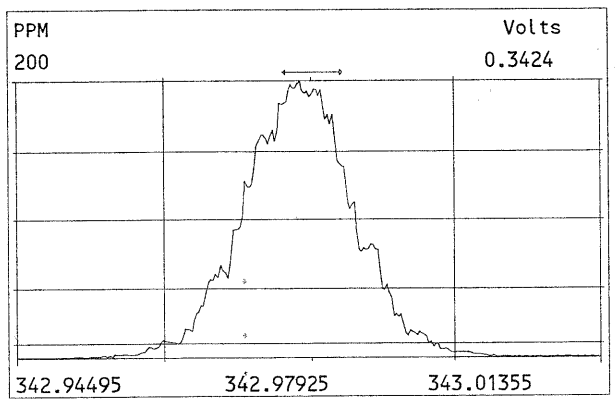




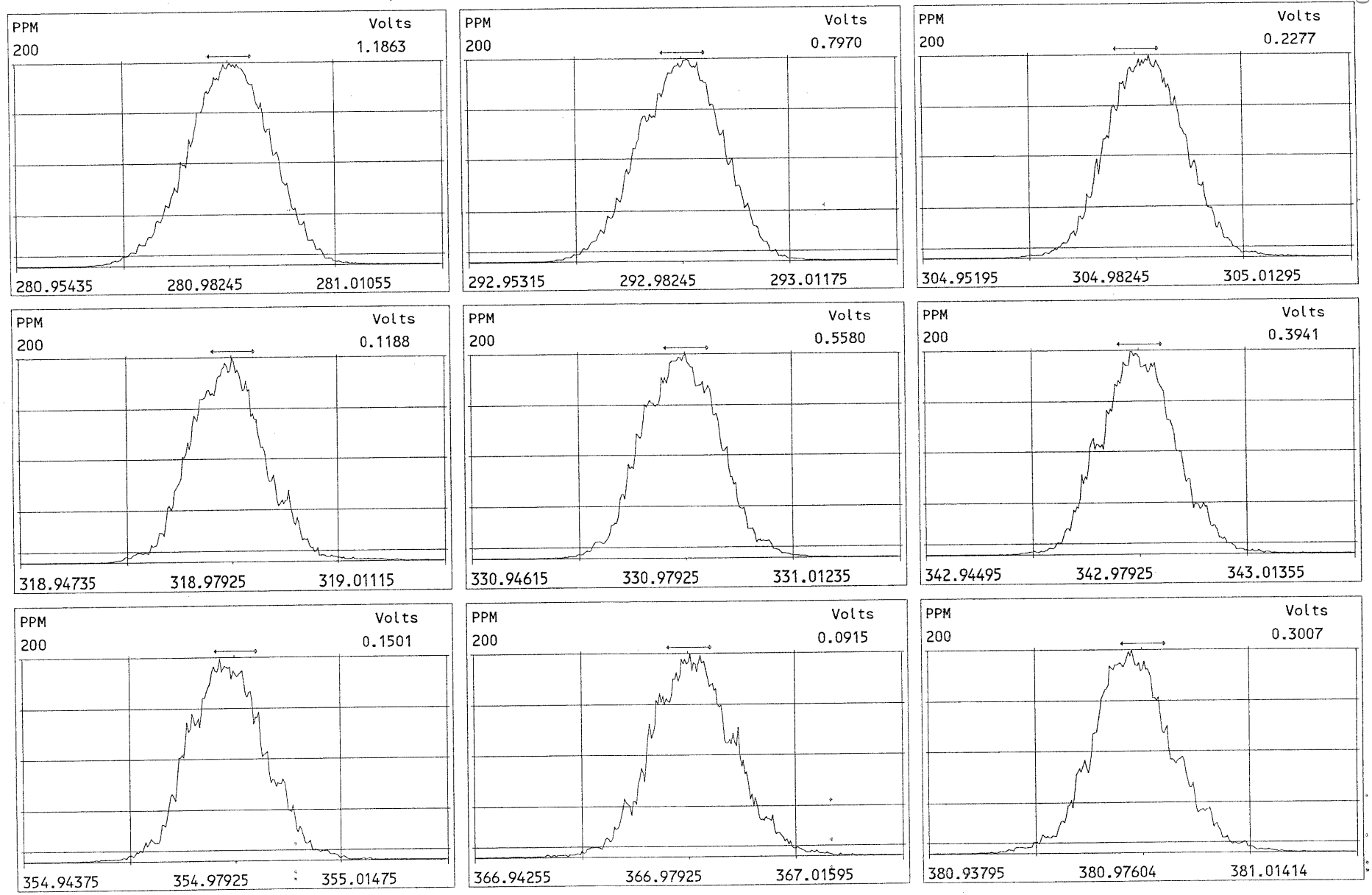




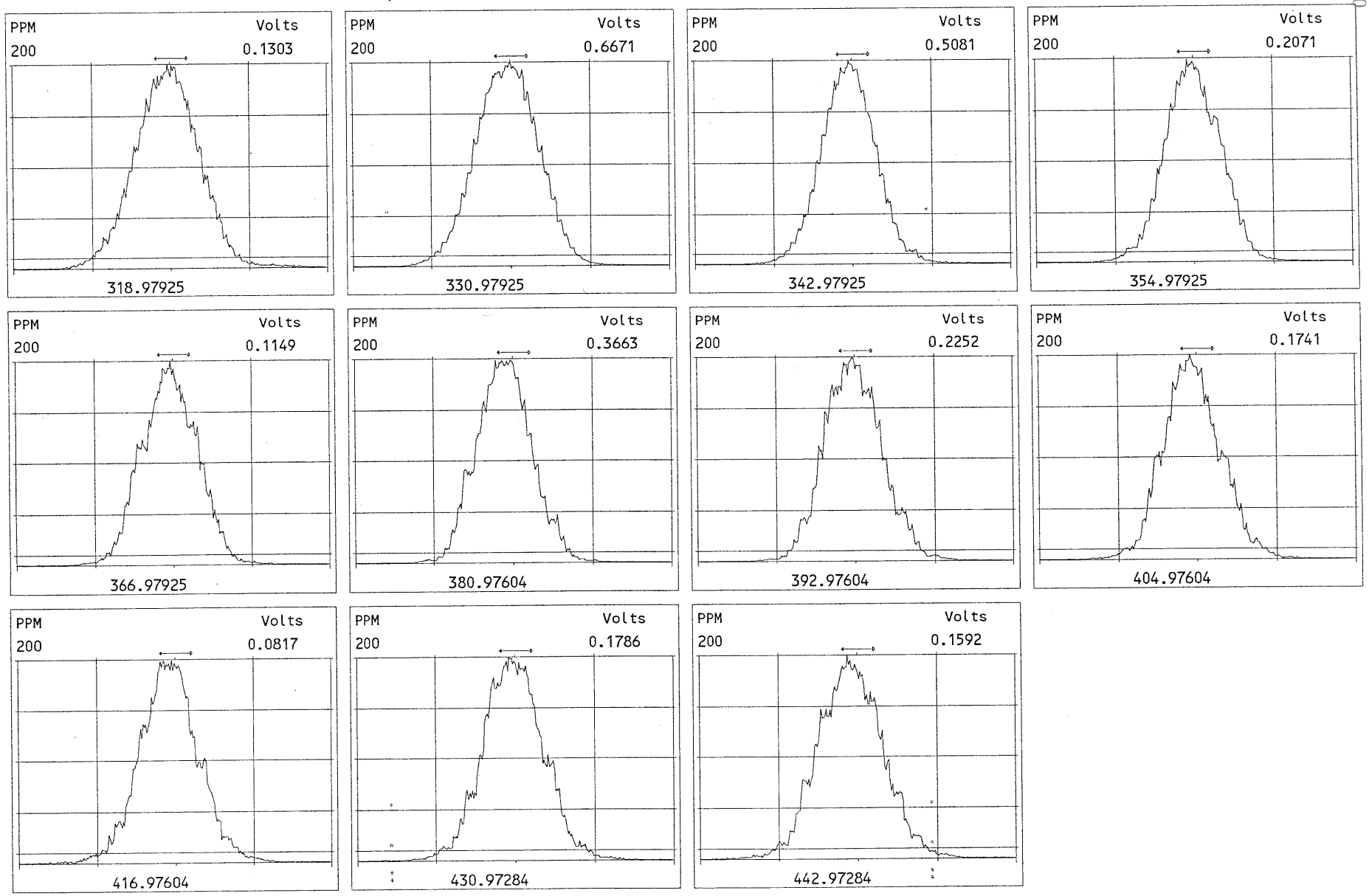




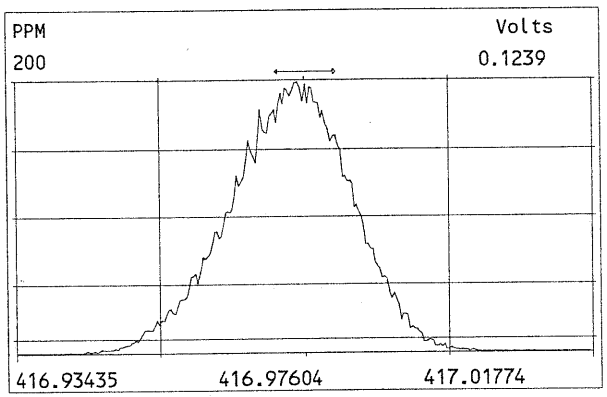
Peak Locate Examination: 6-AUG-2019:08:15 File:06AUG19Z
Experiment:1668PCB Function:4 Reference:PFK

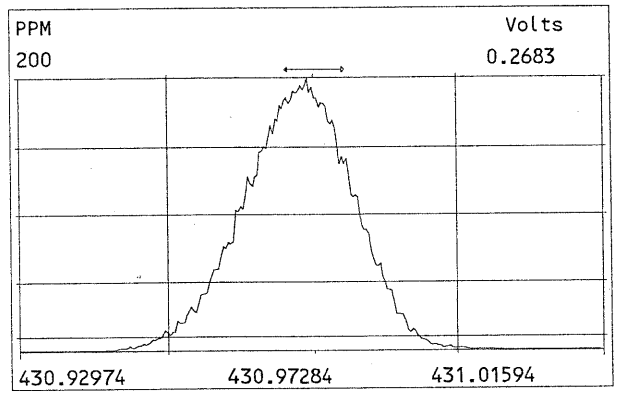


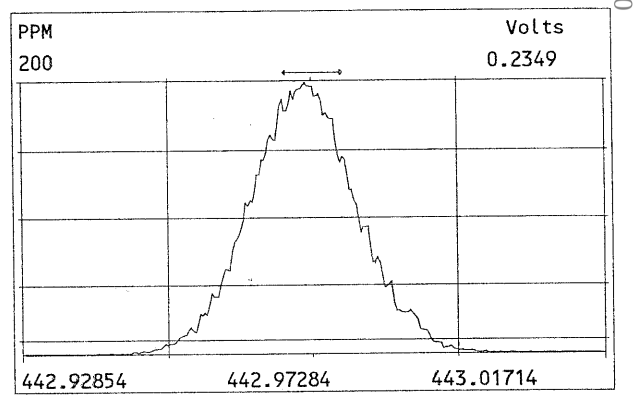
Peak Locate Examination: 6-AUG-2019:08:15 File:06AUG19Z
Experiment:1668PCB Function:5 Reference:PFK

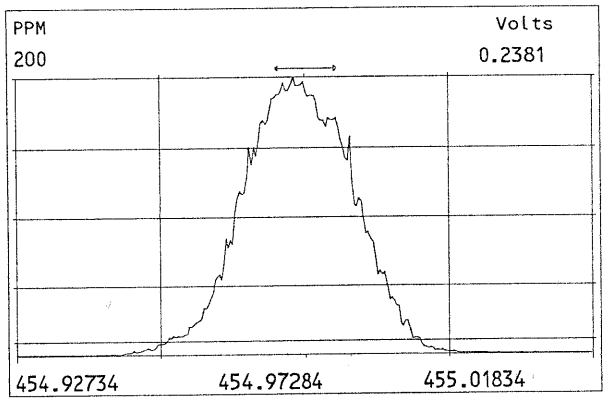


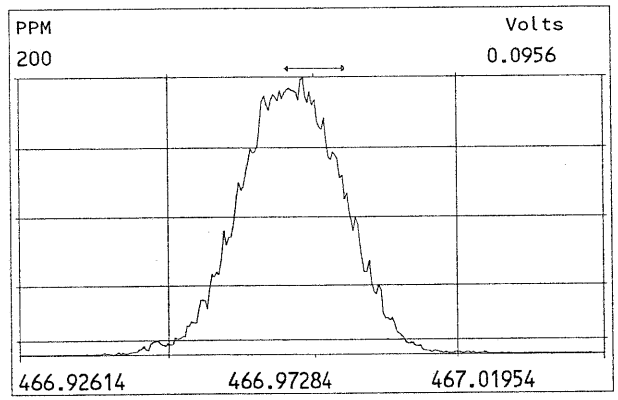
Peak Locate Examination: 6-AUG-2019:08:16 File:06AUG19Z
Experiment:1668PCB Function:6 Reference:PFK

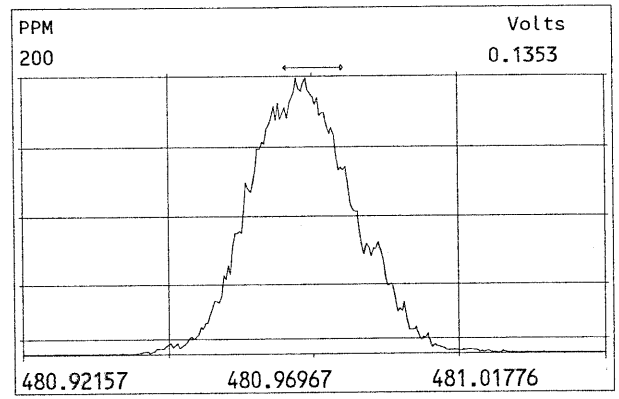


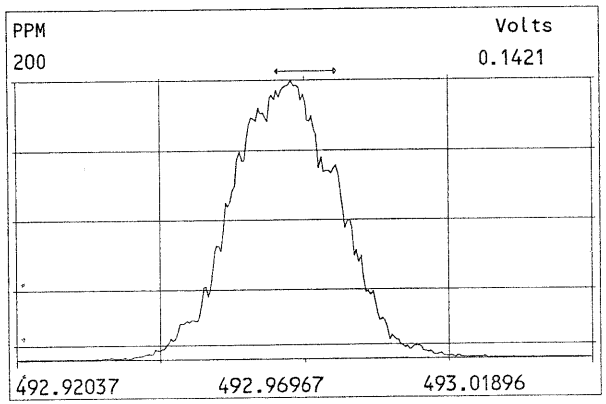


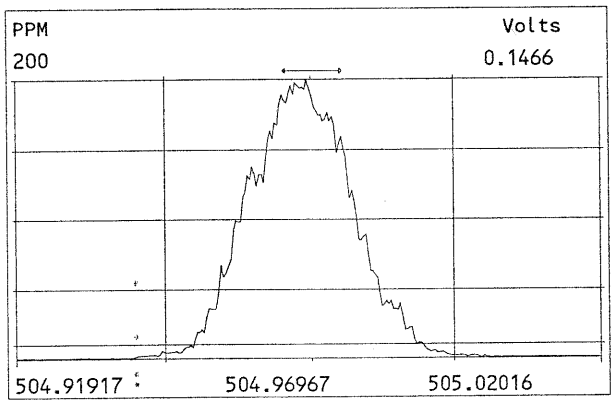


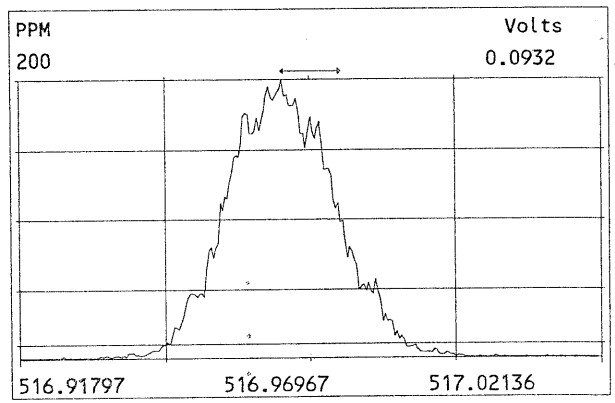




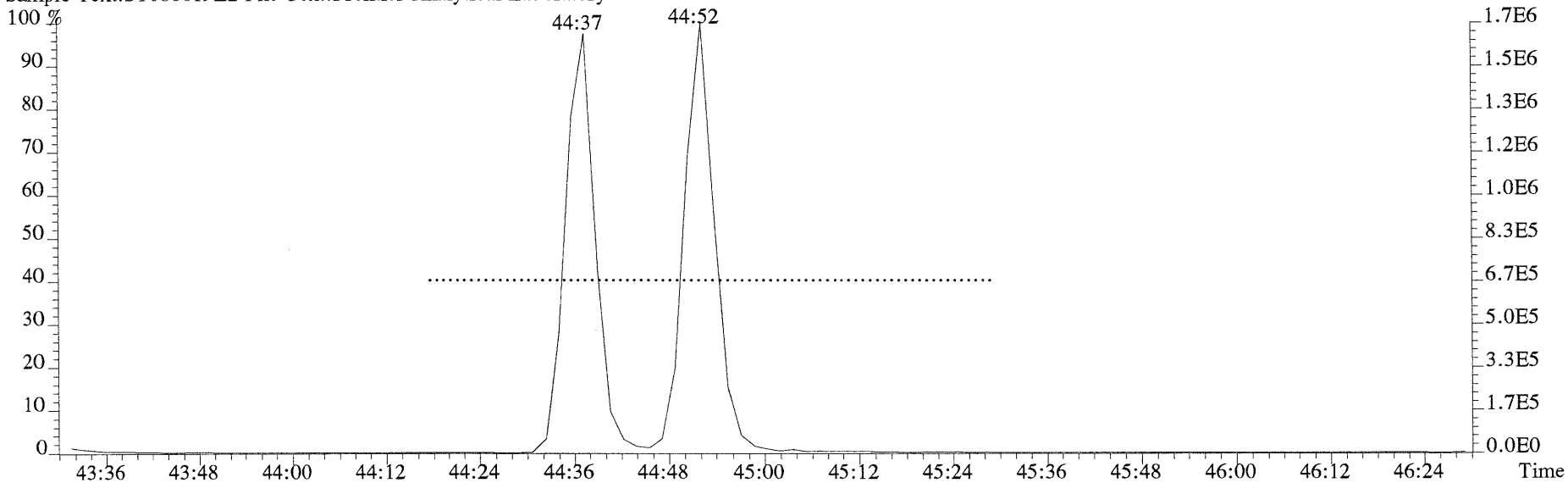




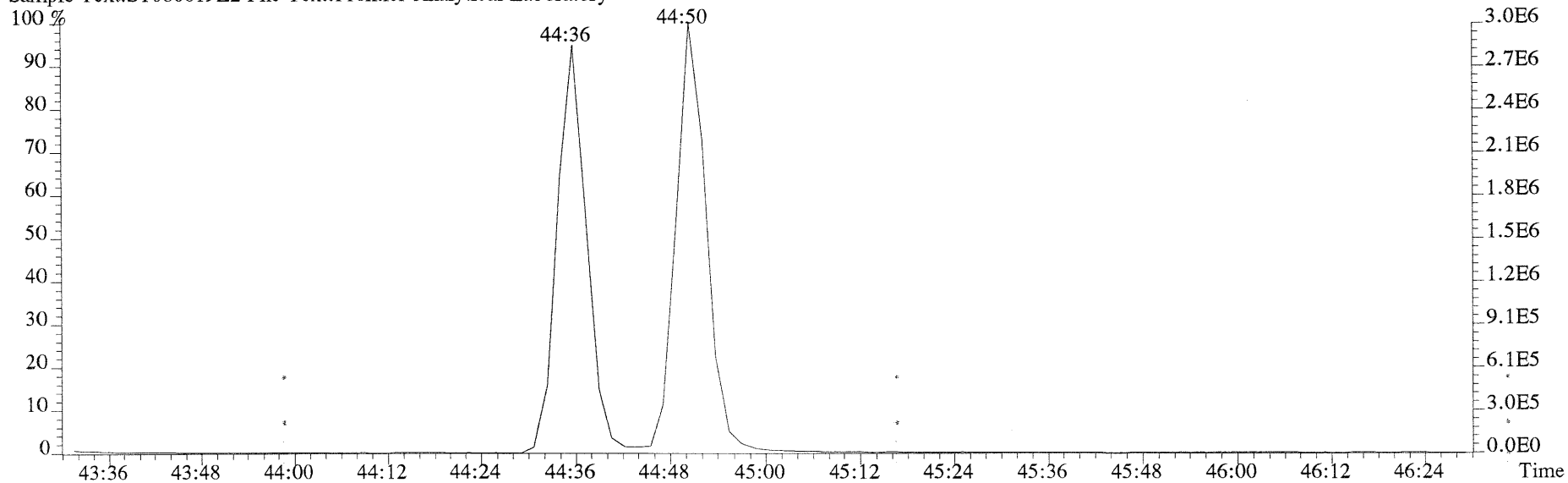




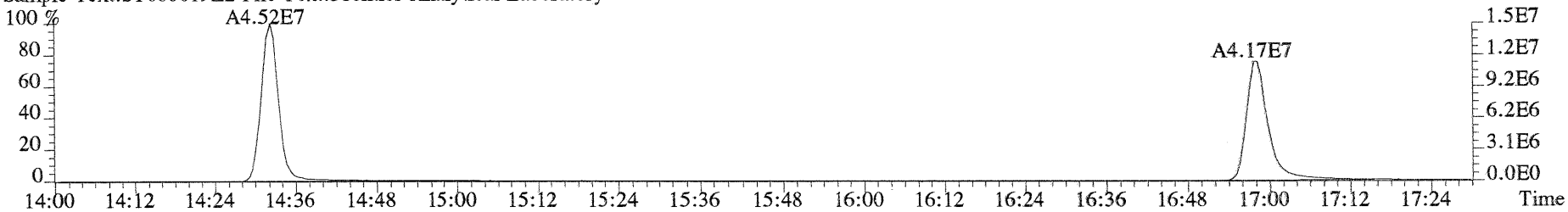
File:06AUG19Z #1-405 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



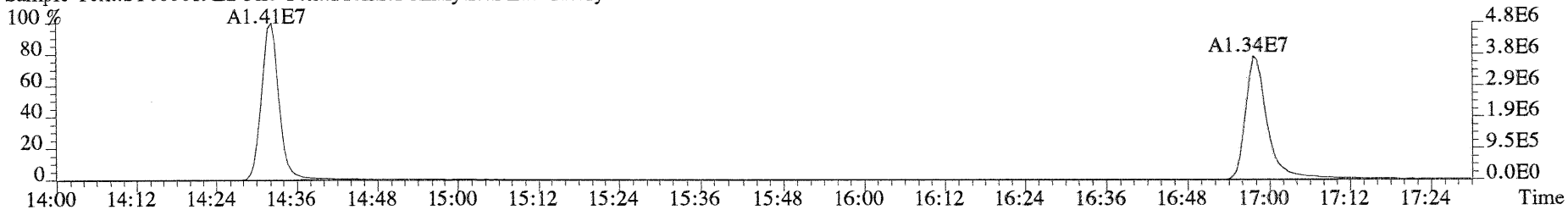
File:06AUG19Z #1-405 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



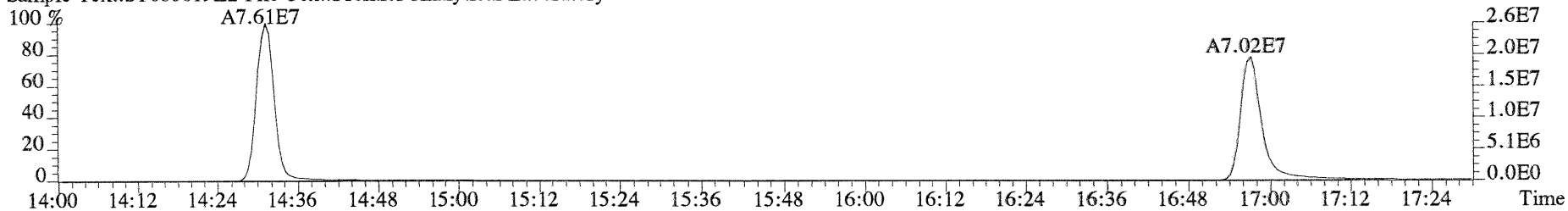
File:06AUG19Z #1-784 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



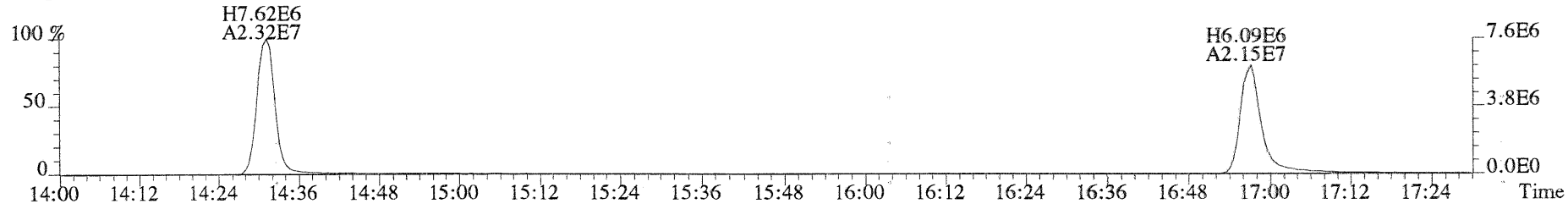
File:06AUG19Z #1-784 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



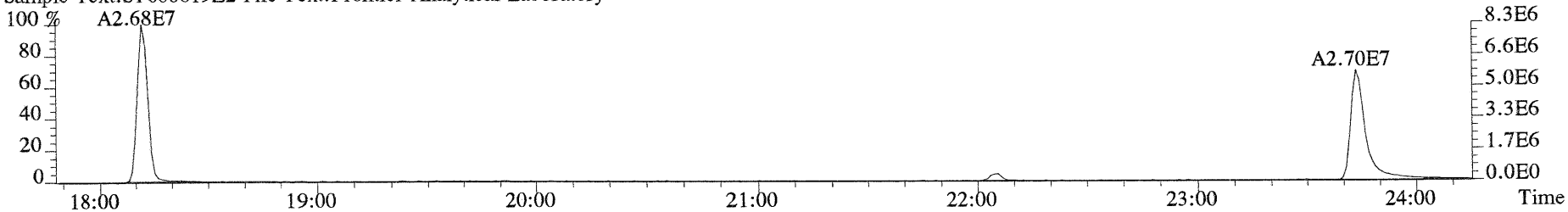
File:06AUG19Z #1-784 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



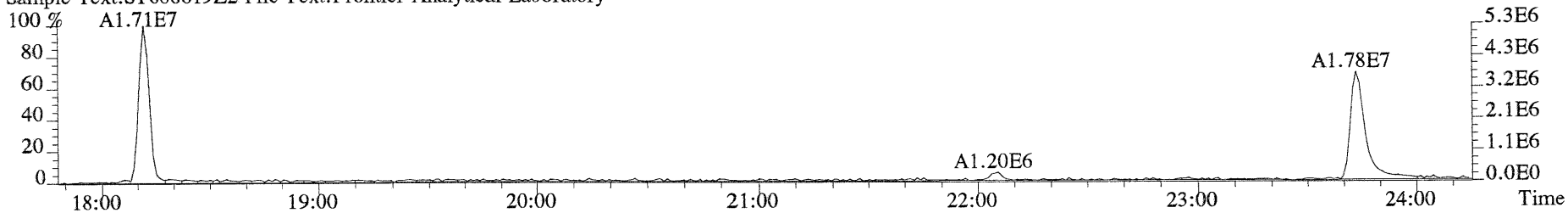
File:06AUG19Z #1-784 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



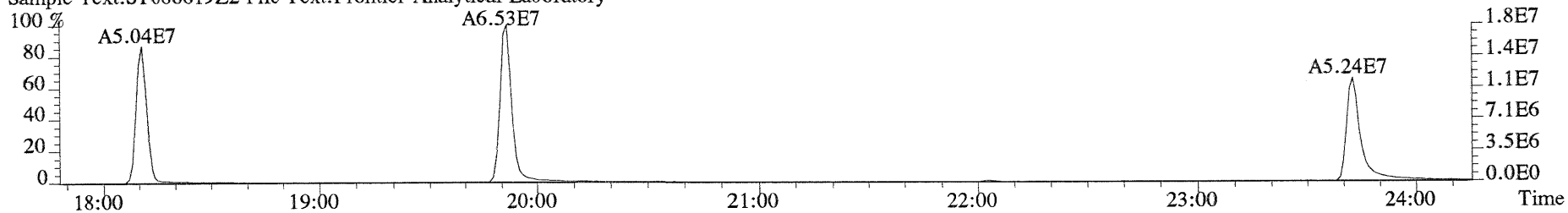
File:06AUG19Z #1-520 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



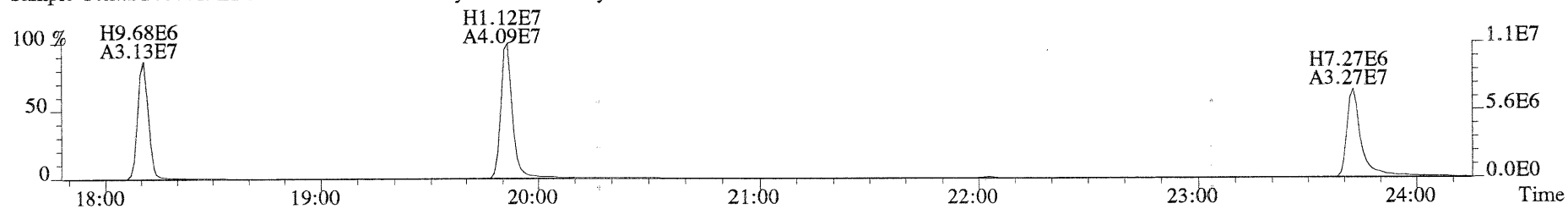
File:06AUG19Z #1-520 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



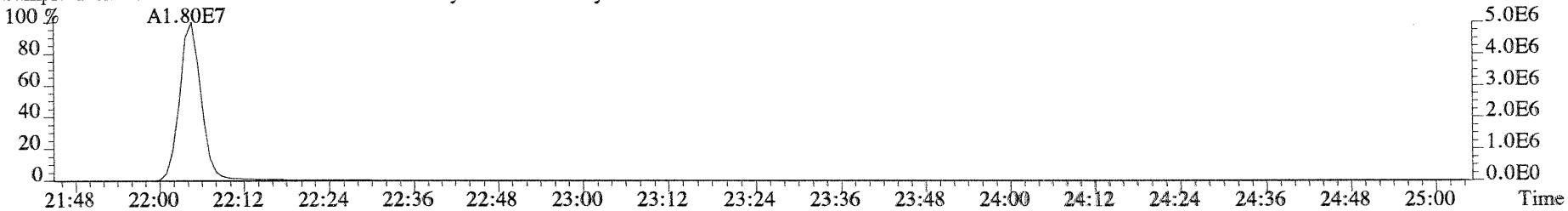
File:06AUG19Z #1-520 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



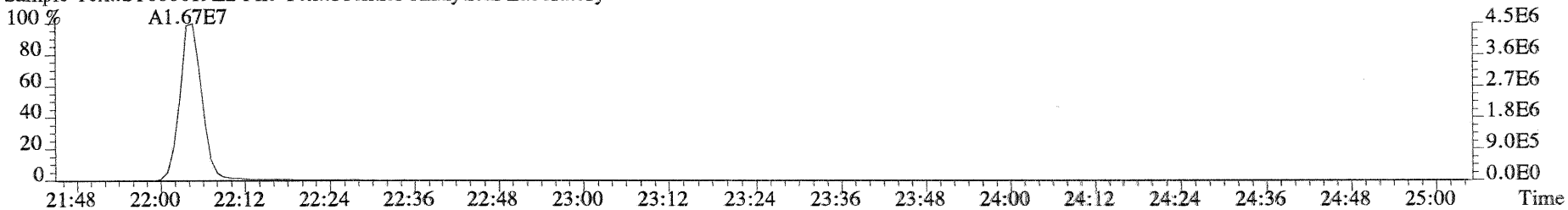
File:06AUG19Z #1-520 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



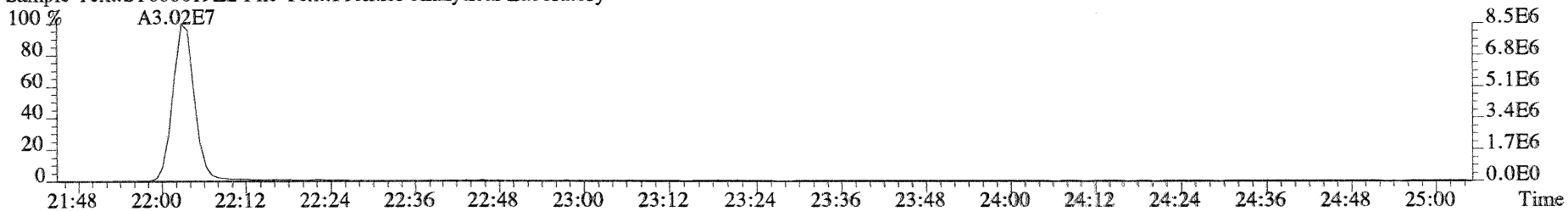
File:06AUG19Z #1-520 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



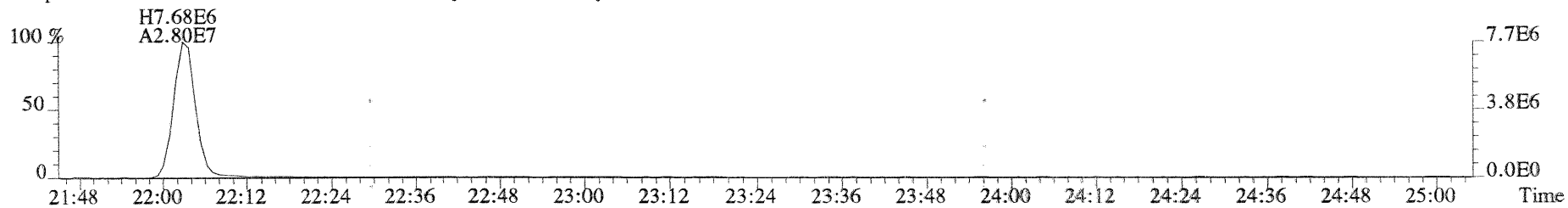
File:06AUG19Z #1-520 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



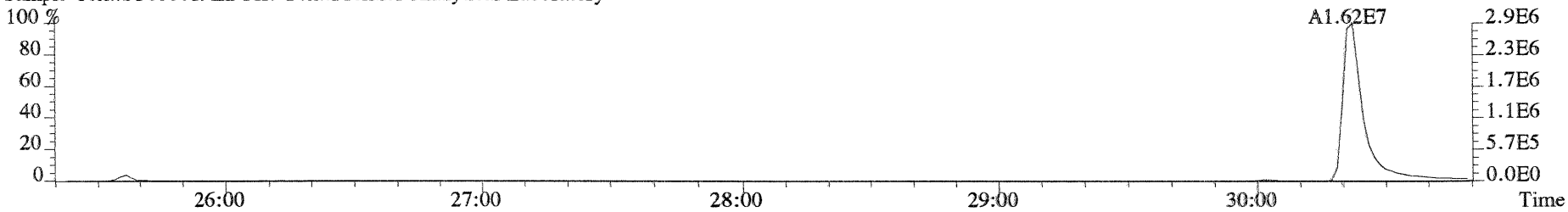
File:06AUG19Z #1-520 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



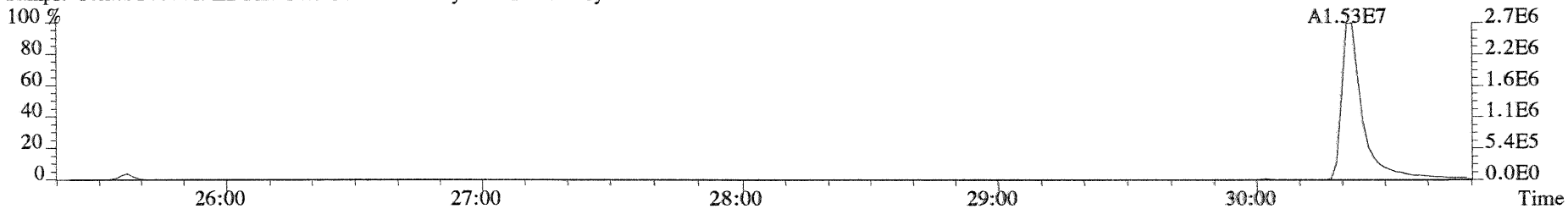
File:06AUG19Z #1-520 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



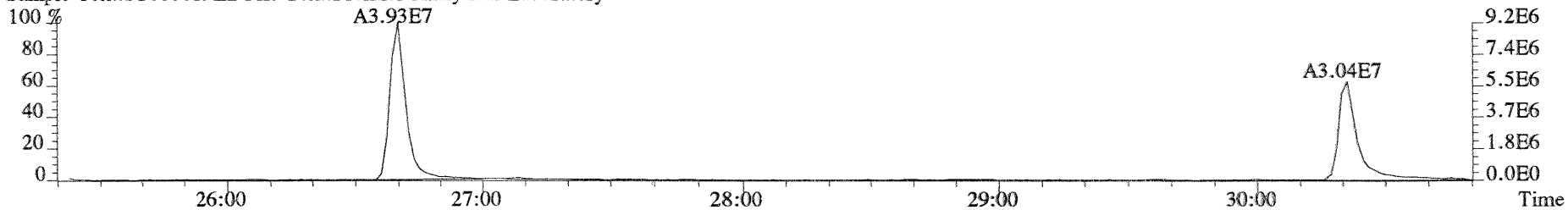
File:06AUG19Z #1-401 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



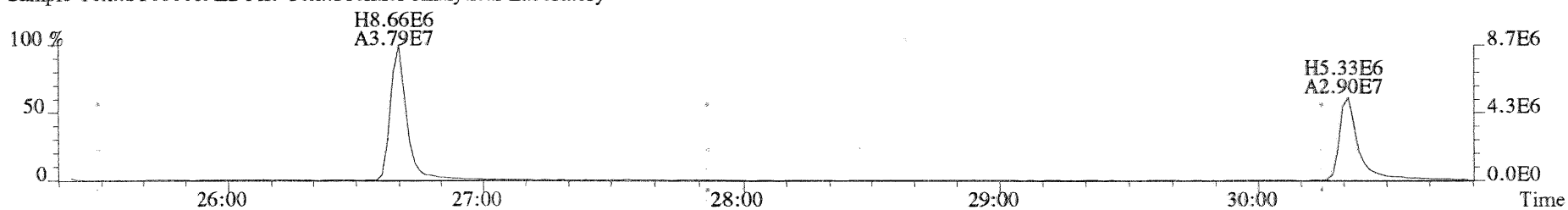
File:06AUG19Z #1-401 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-401 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-401 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-401 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
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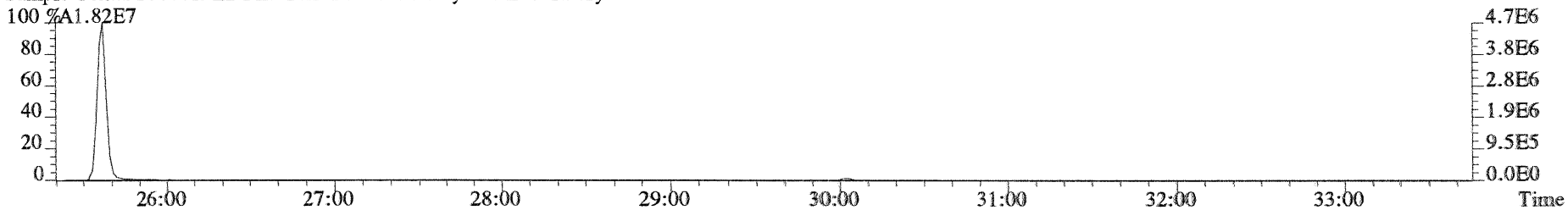
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



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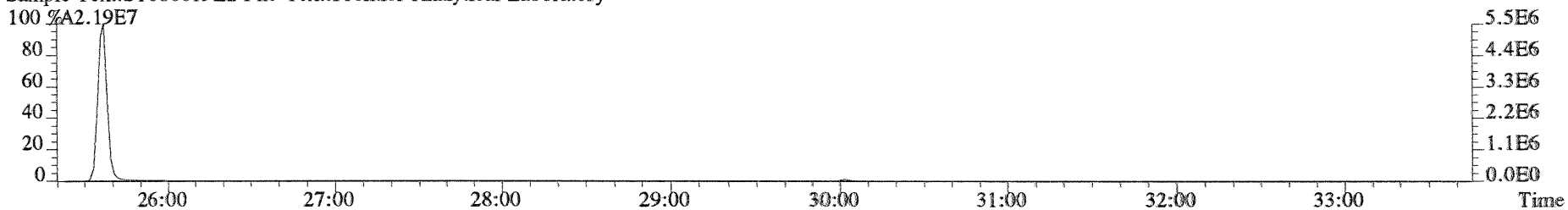
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



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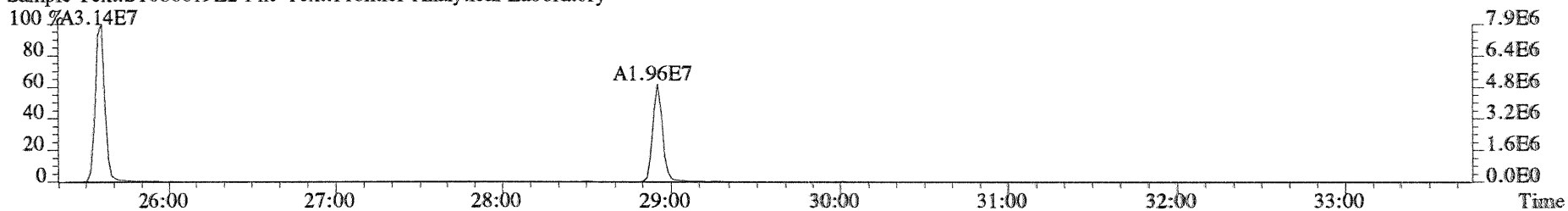

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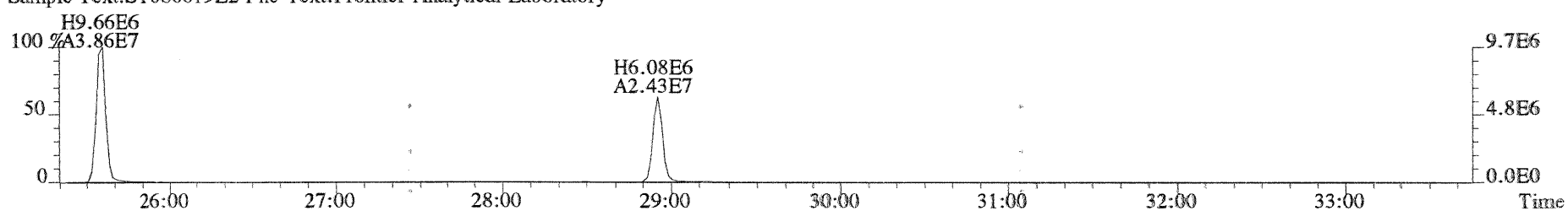
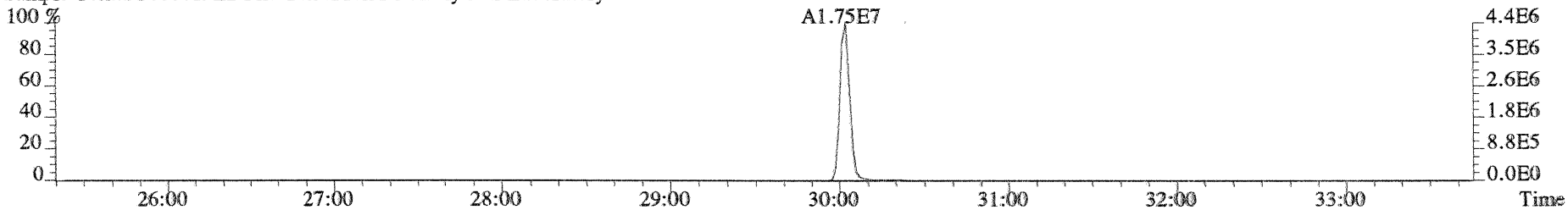
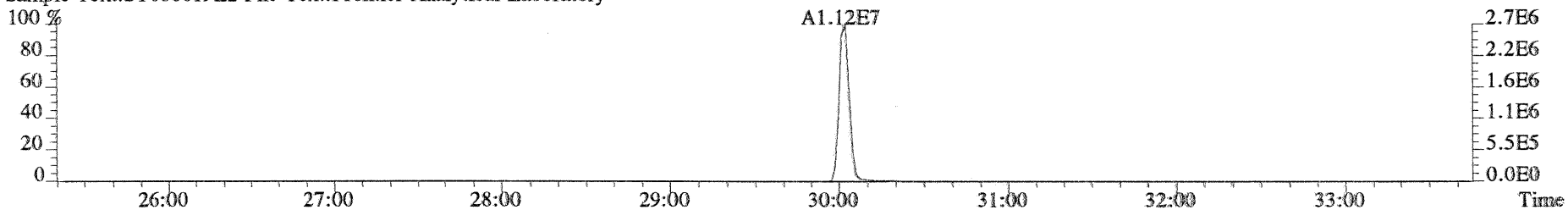
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-401 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-401 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-401 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
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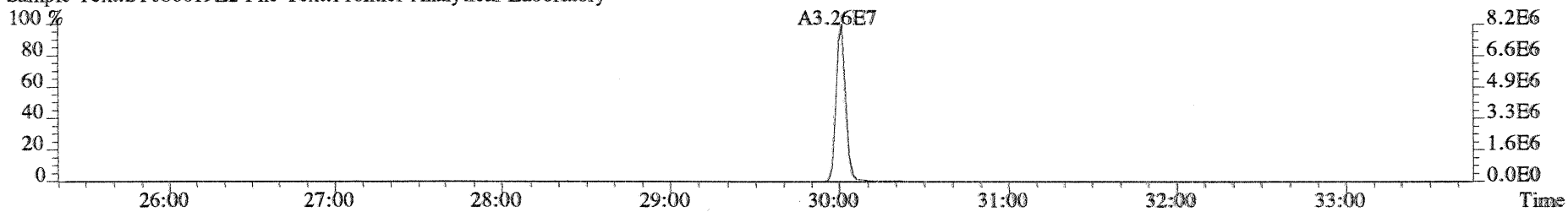
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



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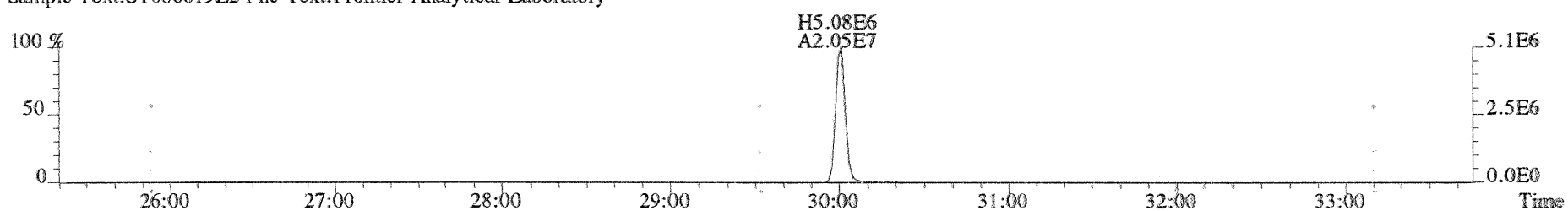
339.9178 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



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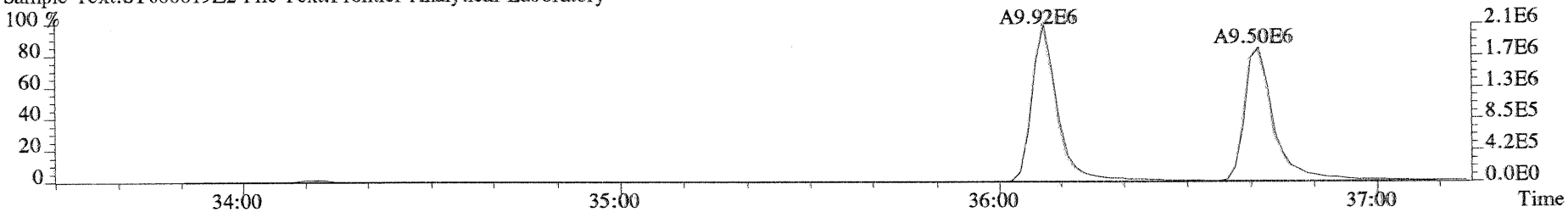
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-181 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
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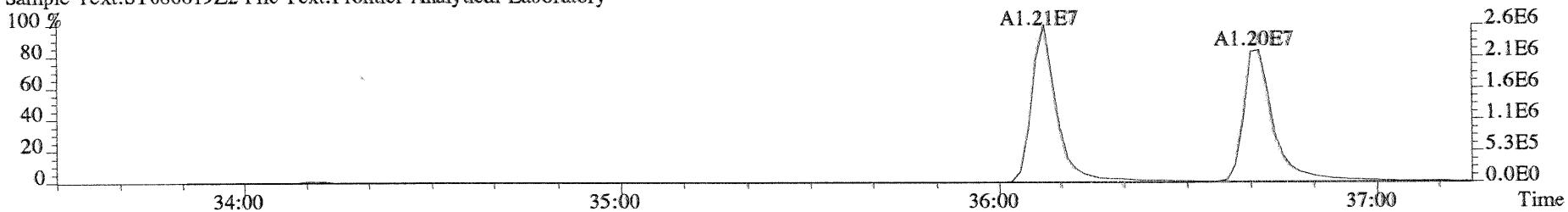
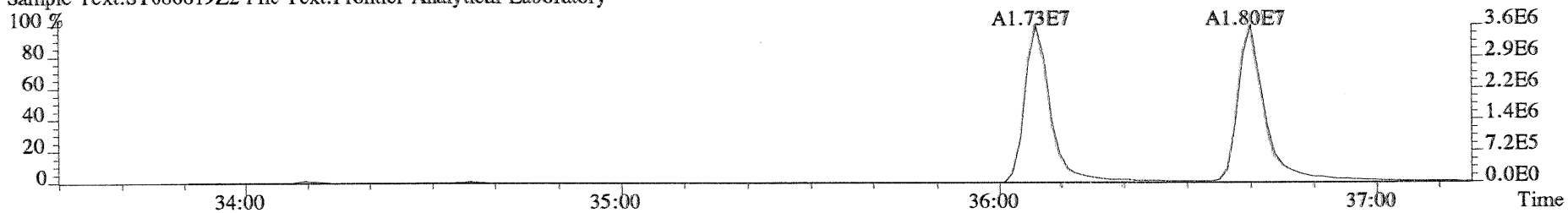
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-181 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



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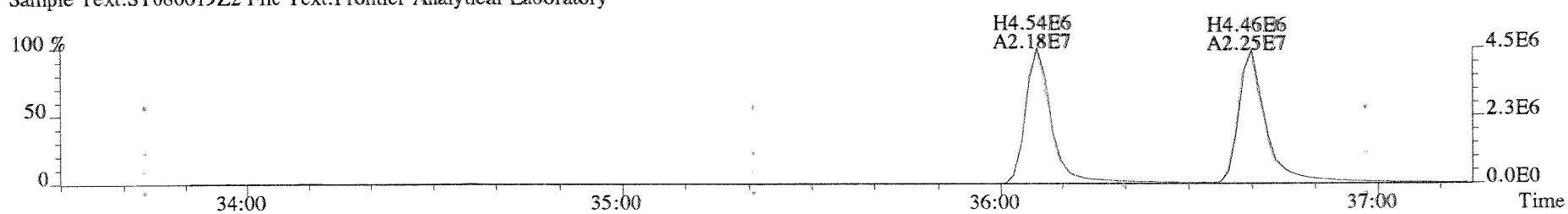
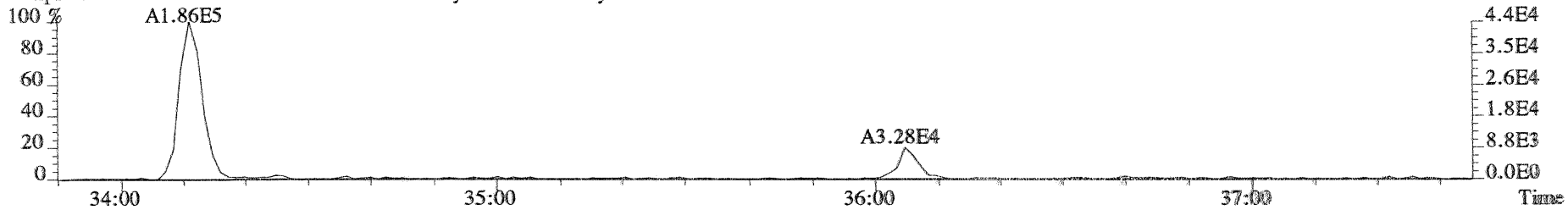
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-181 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



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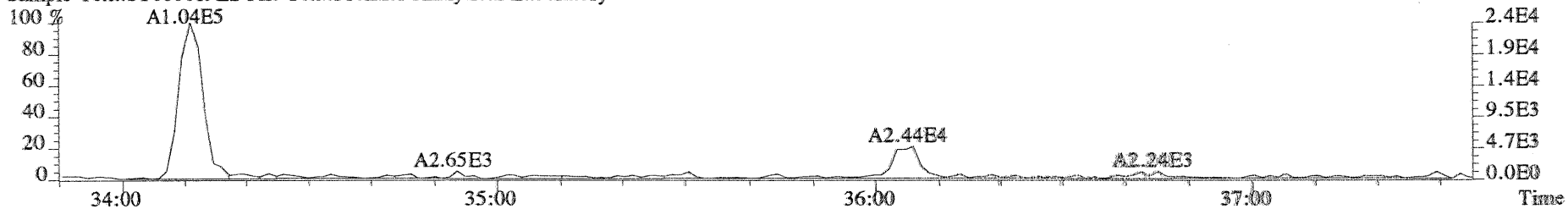
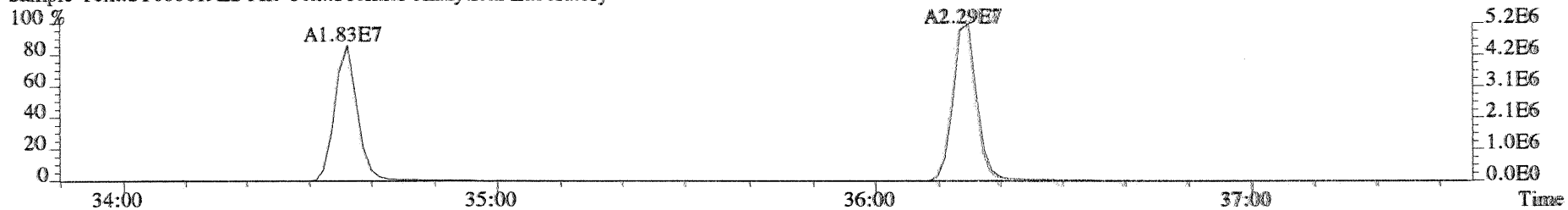
327.8775 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-181 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



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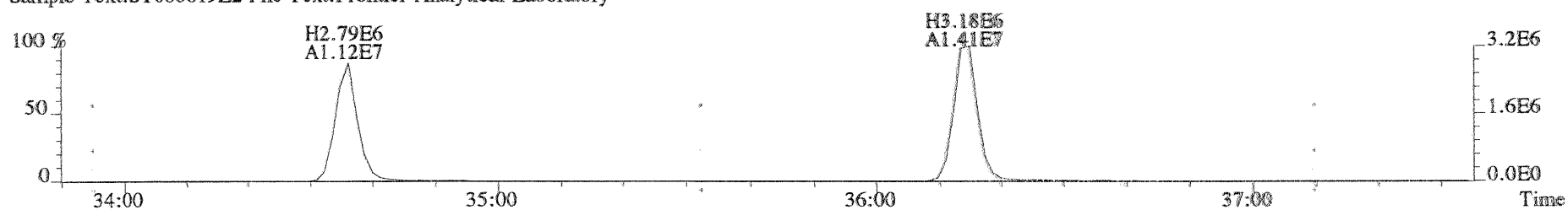
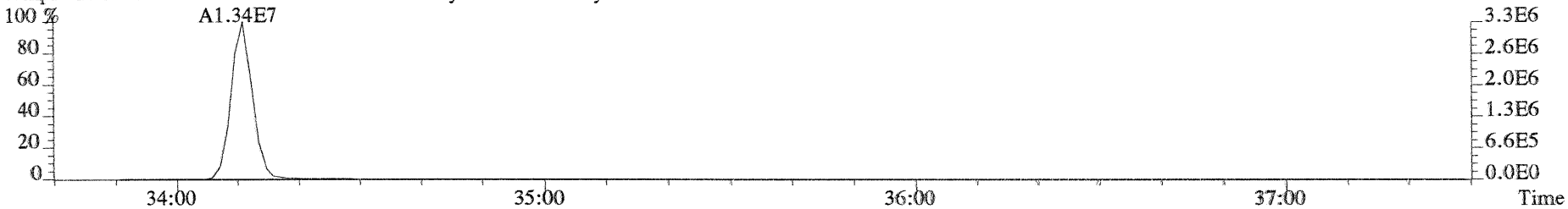
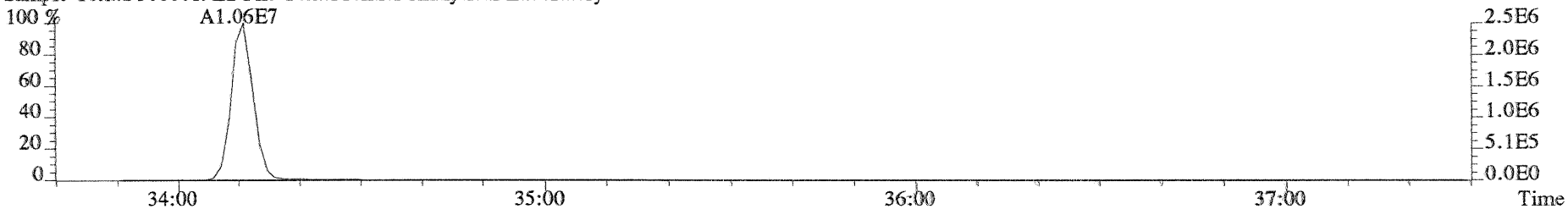
339.9178 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



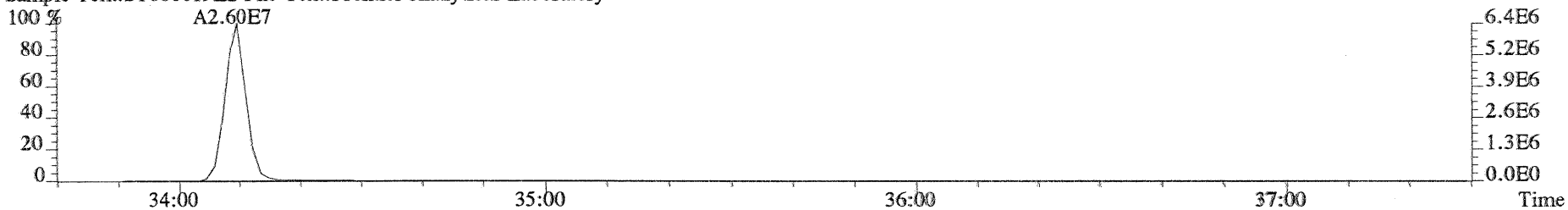
File:06AUG19Z #1-181 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



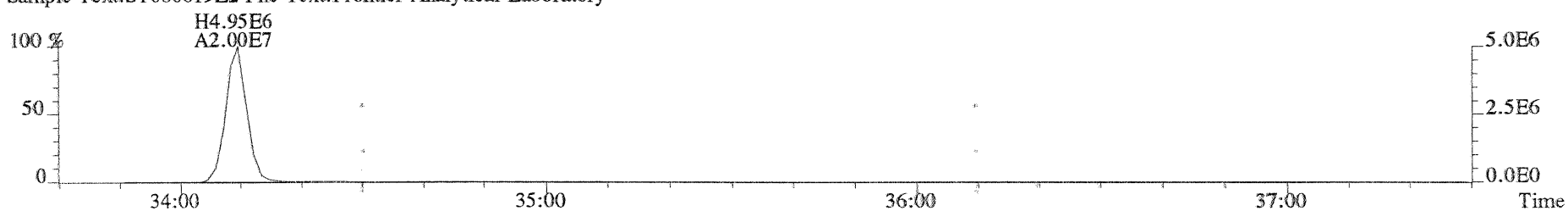
File:06AUG19Z #1-181 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



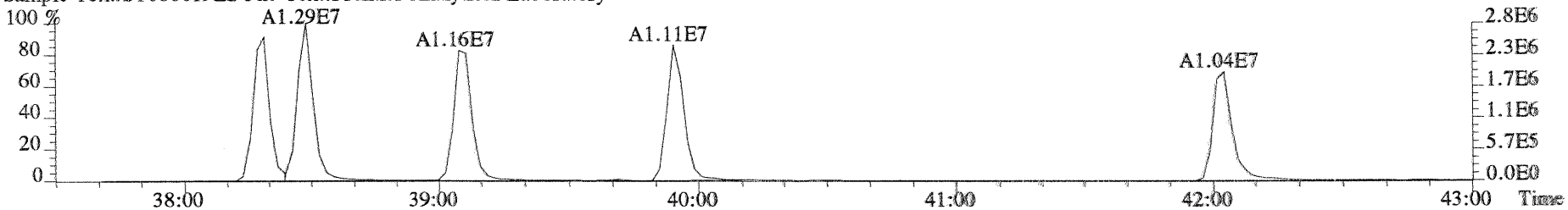
File:06AUG19Z #1-181 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



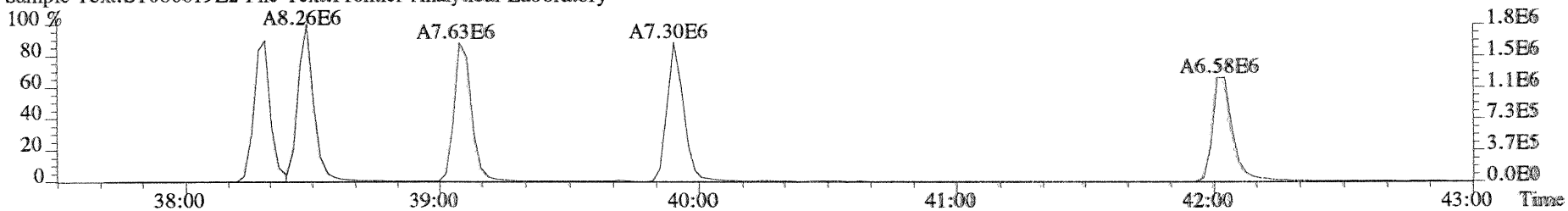
File:06AUG19Z #1-181 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-405 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-405 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



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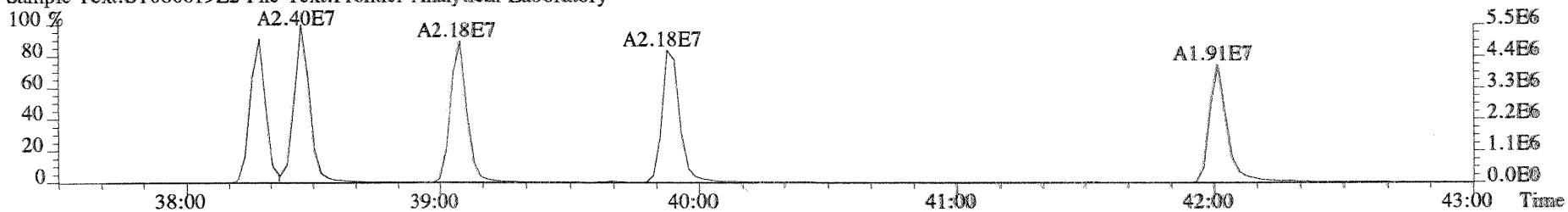
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



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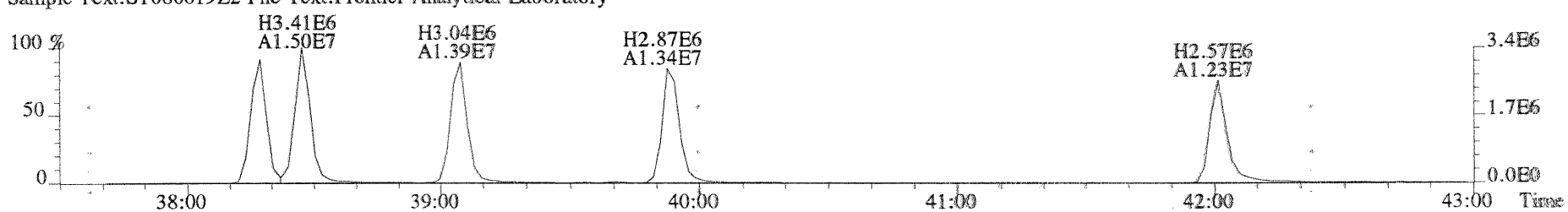
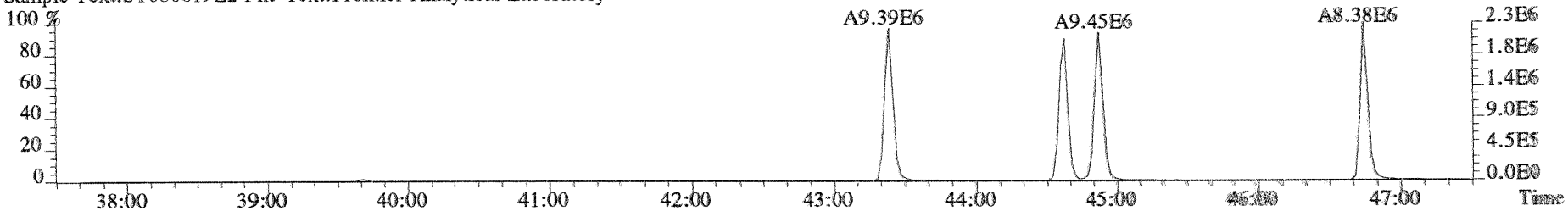
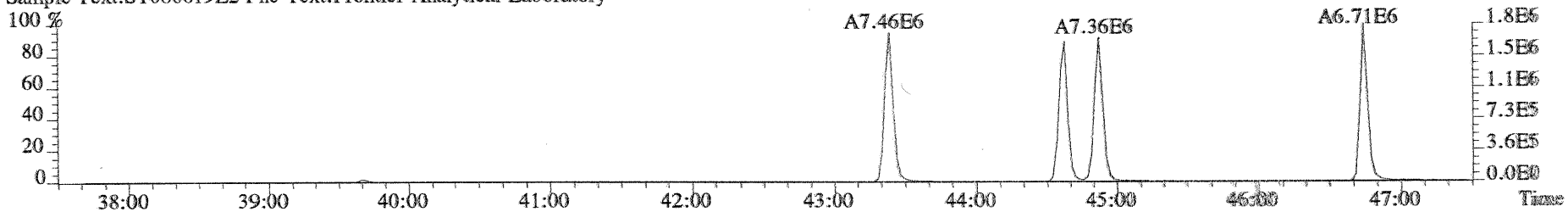
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-405 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-405 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



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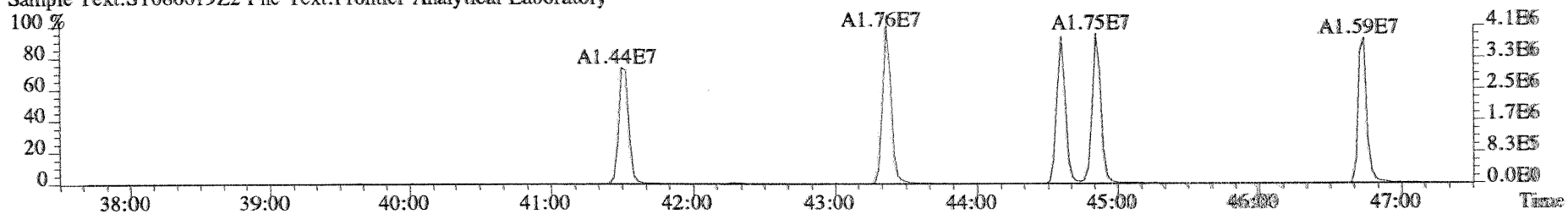
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-405 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
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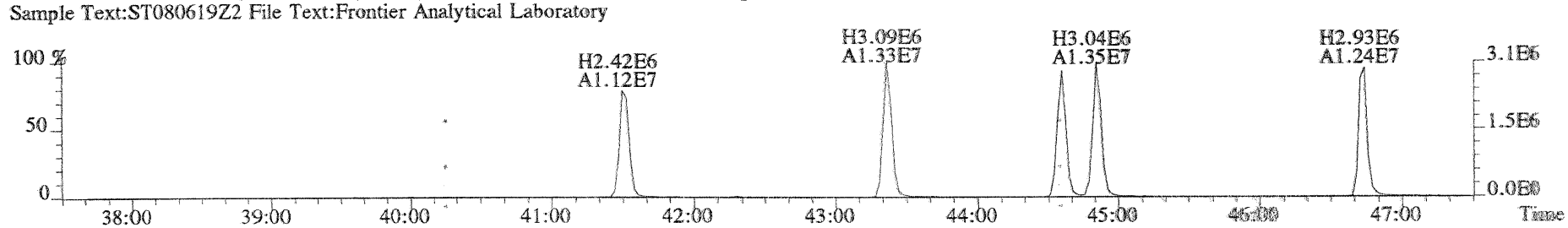
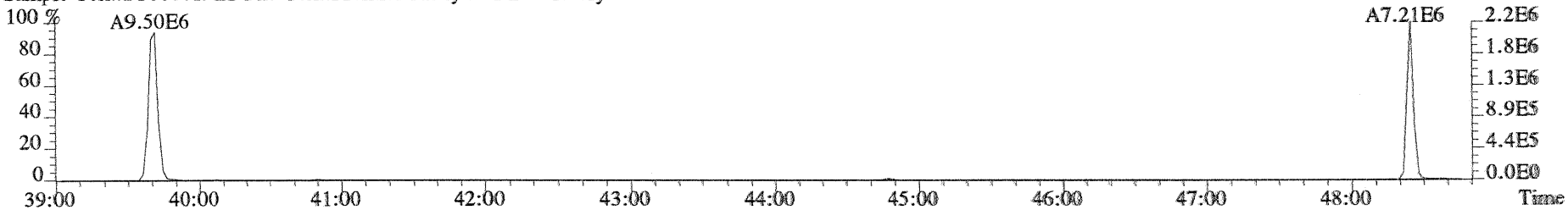
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-405 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



File:06AUG19Z #1-405 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
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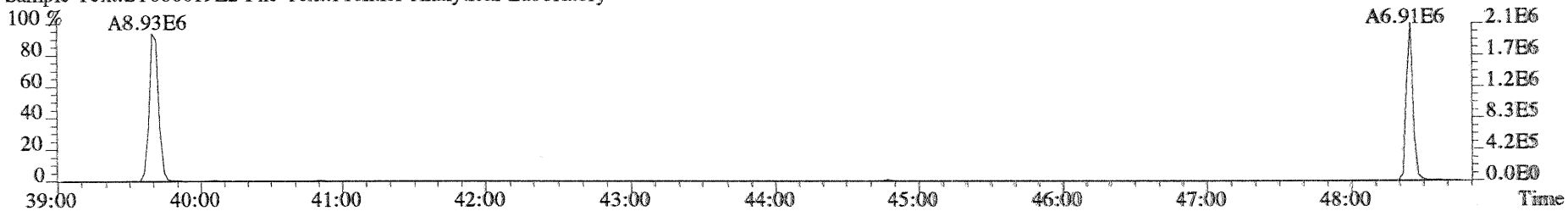
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



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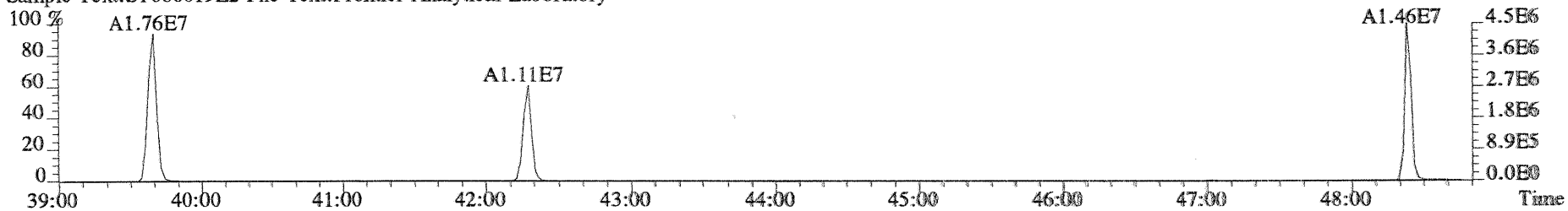
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



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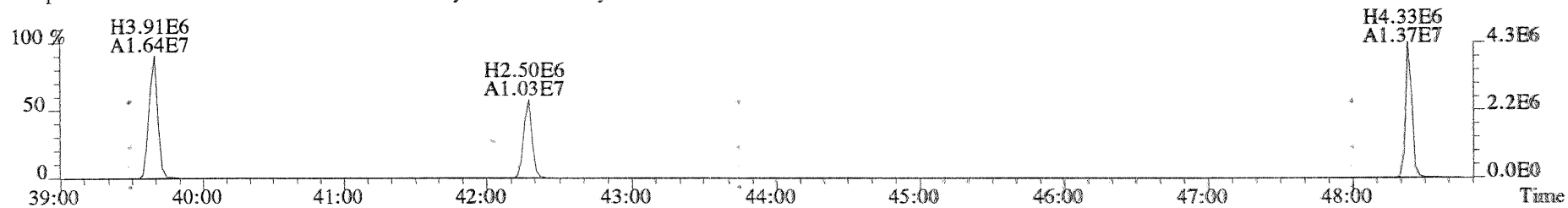
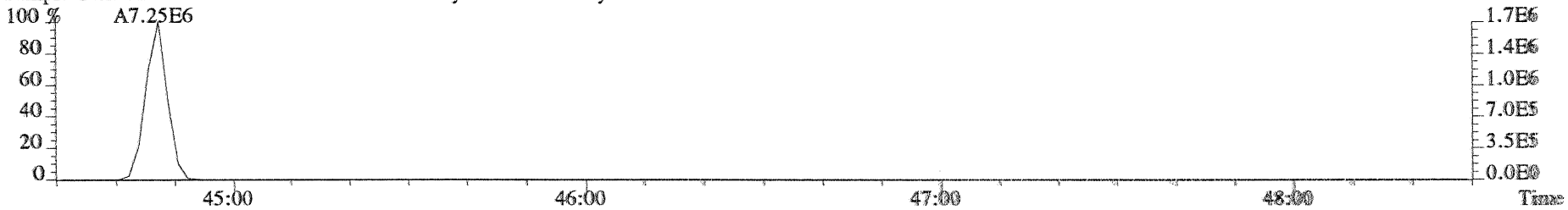
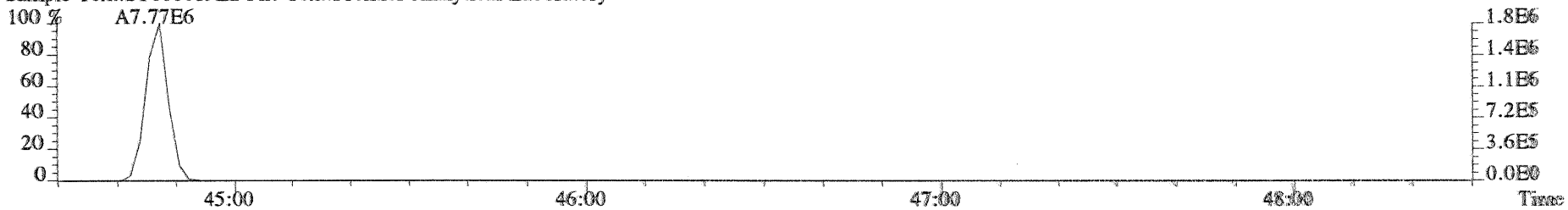
407.8398 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



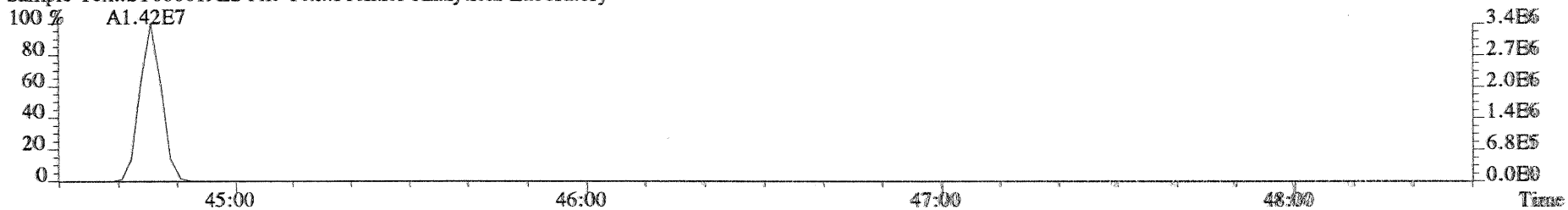
File:06AUG19Z #1-405 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



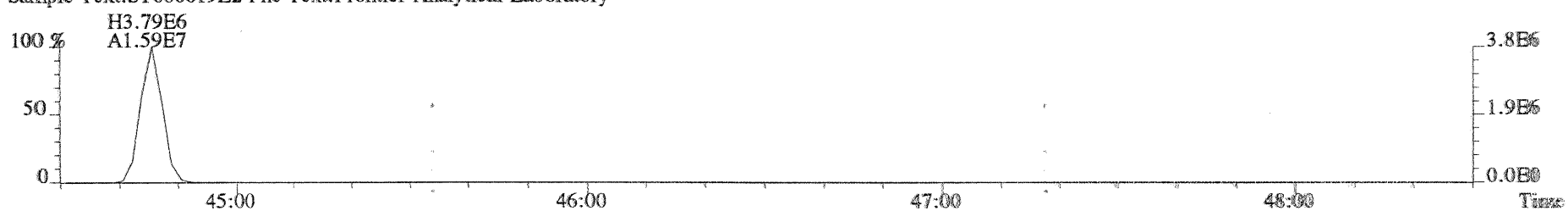
File:06AUG19Z #1-405 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



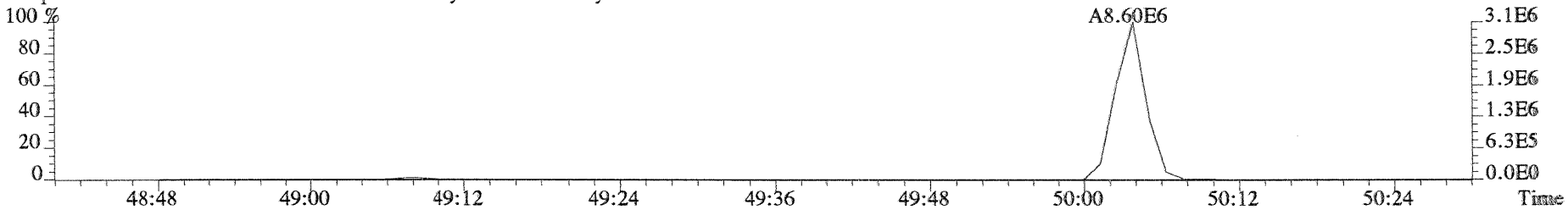
File:06AUG19Z #1-405 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



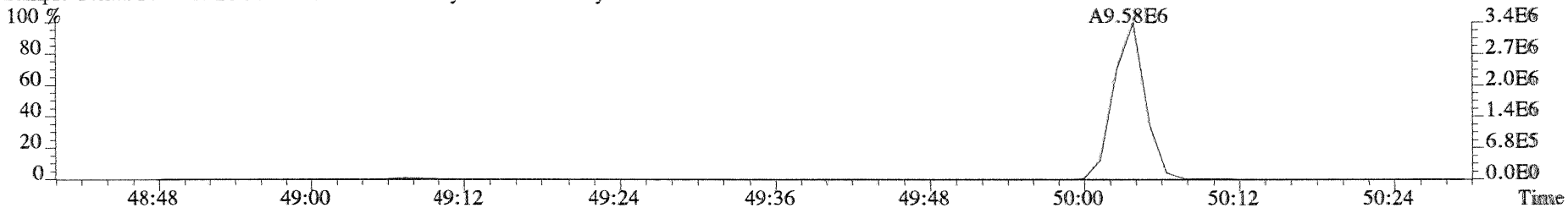
File:06AUG19Z #1-405 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



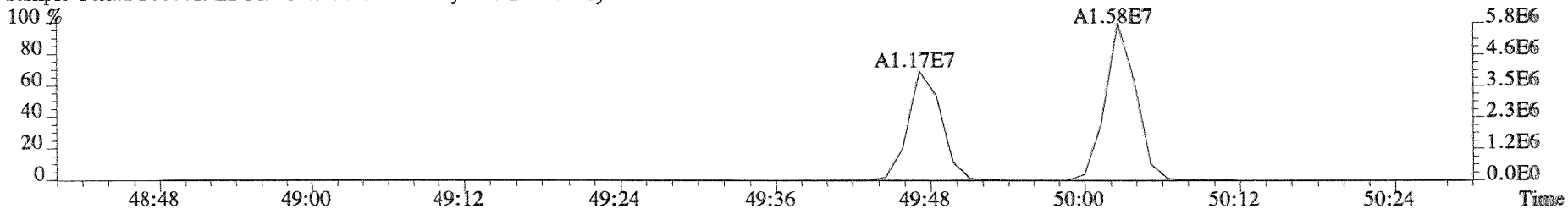
File:06AUG19Z #1-315 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



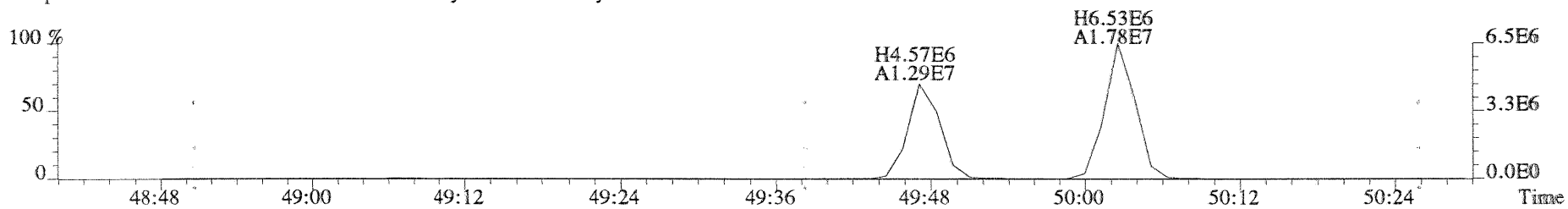
File:06AUG19Z #1-315 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



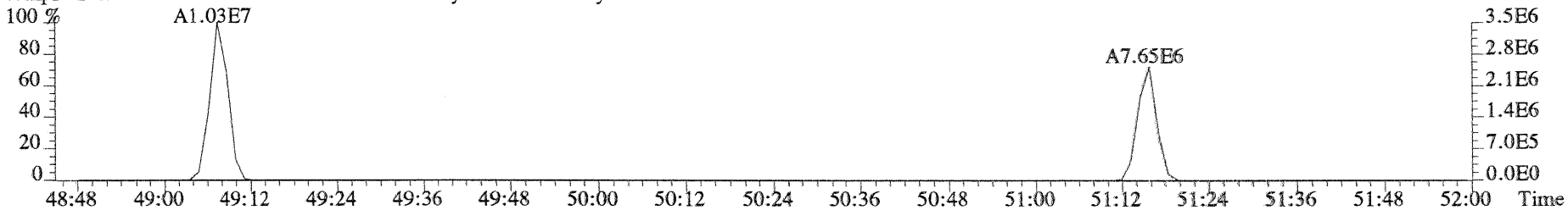
File:06AUG19Z #1-315 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



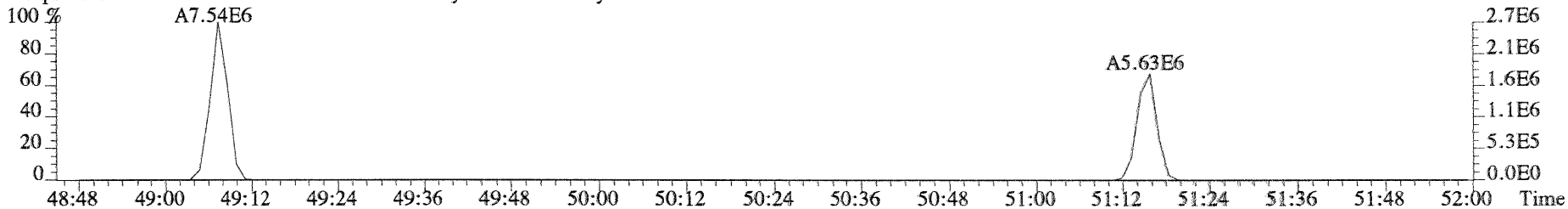
File:06AUG19Z #1-315 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



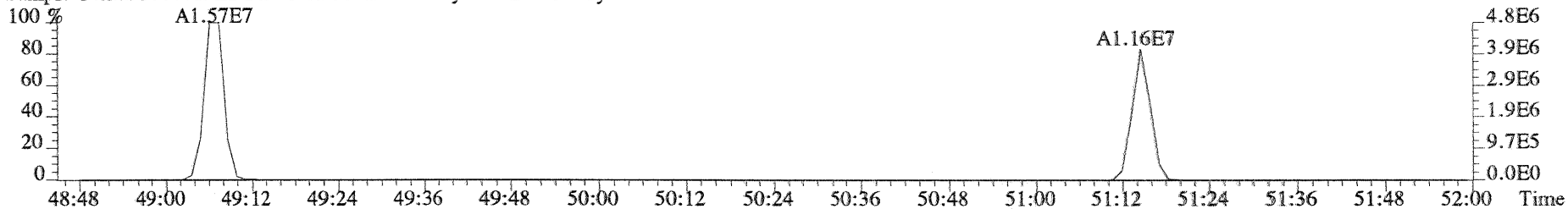
File:06AUG19Z #1-315 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



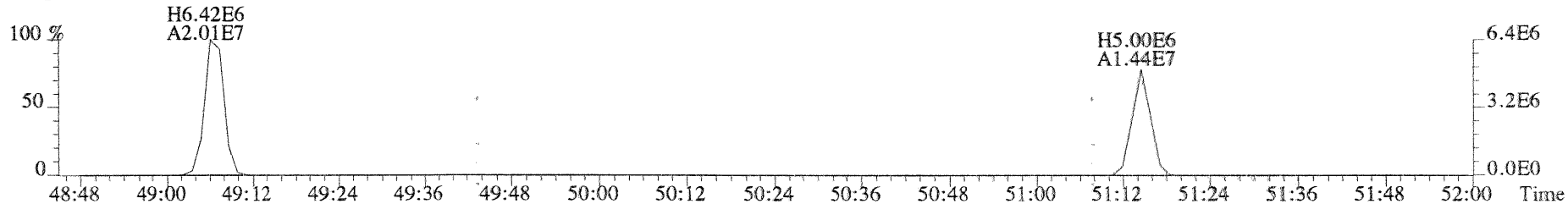
File:06AUG19Z #1-315 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



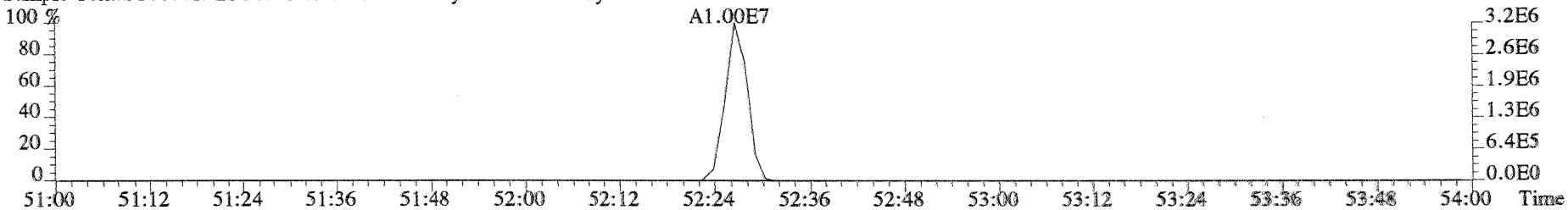
File:06AUG19Z #1-315 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



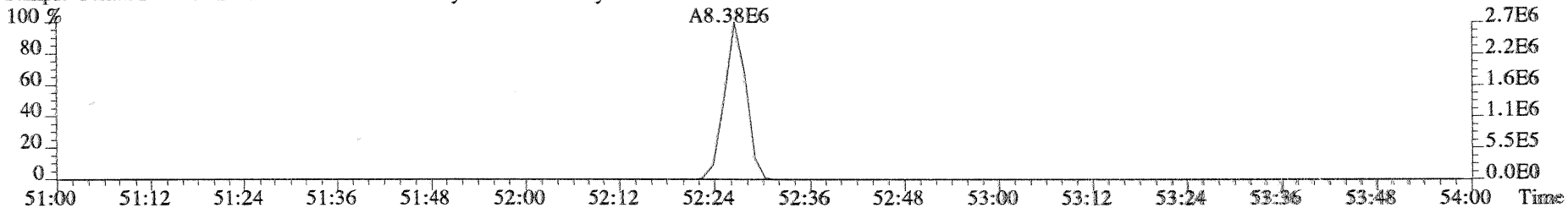
File:06AUG19Z #1-315 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



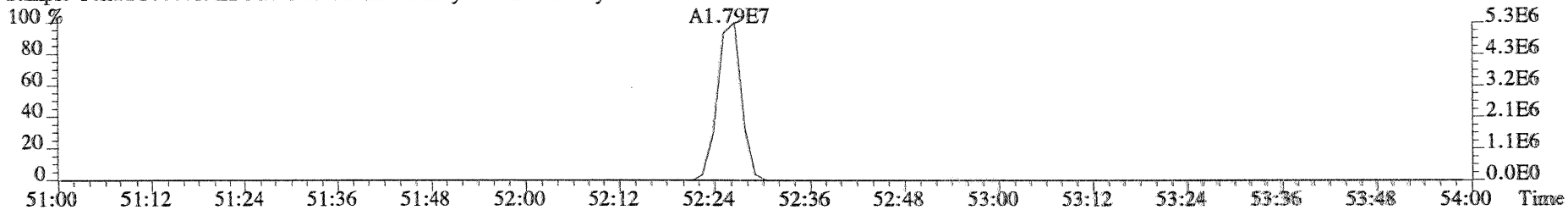
File:06AUG19Z #1-315 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



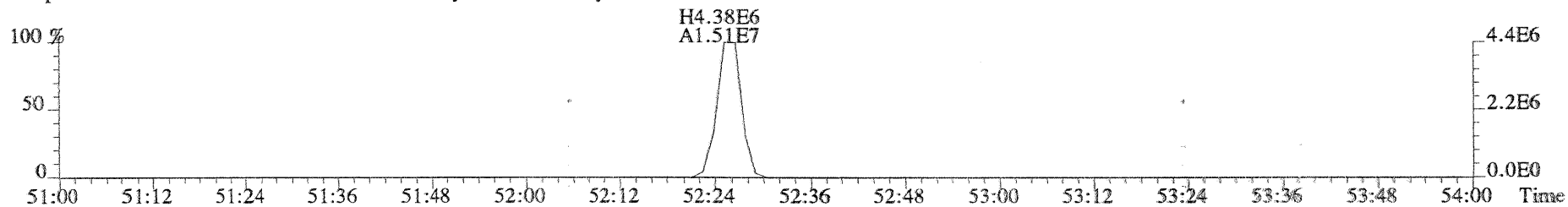
File:06AUG19Z #1-315 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory



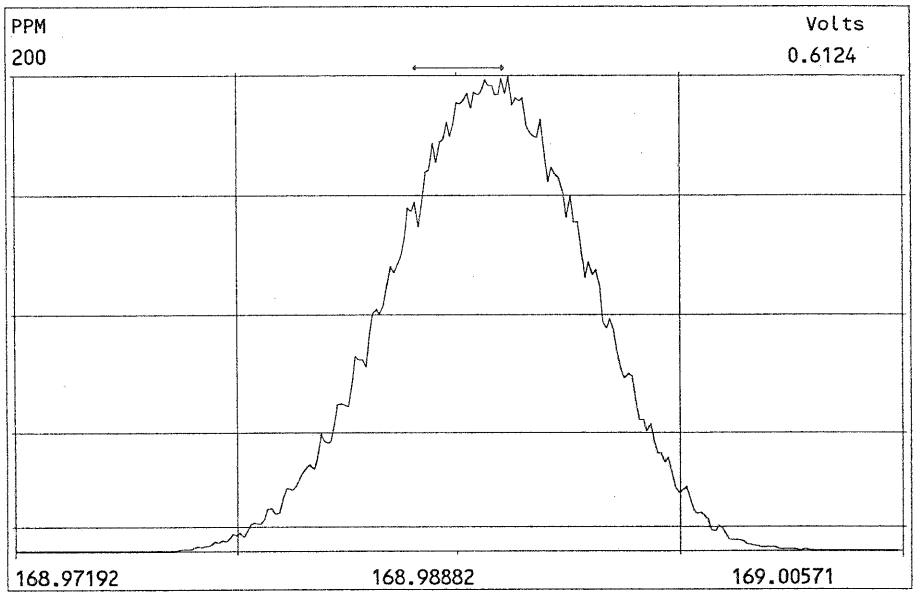
File:06AUG19Z #1-315 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory

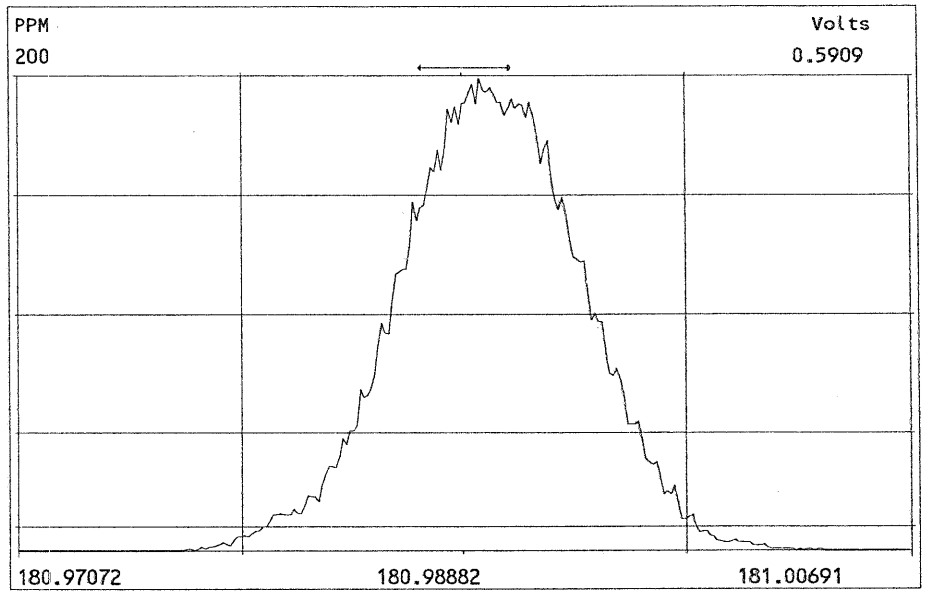


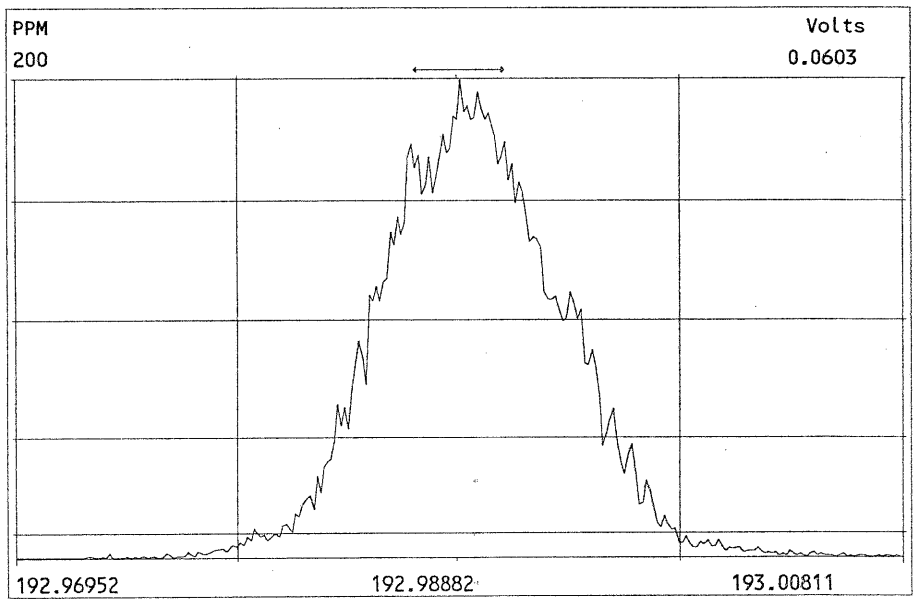
File:06AUG19Z #1-315 Acq: 6-AUG-2019 22:54:36 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080619Z2 File Text:Frontier Analytical Laboratory

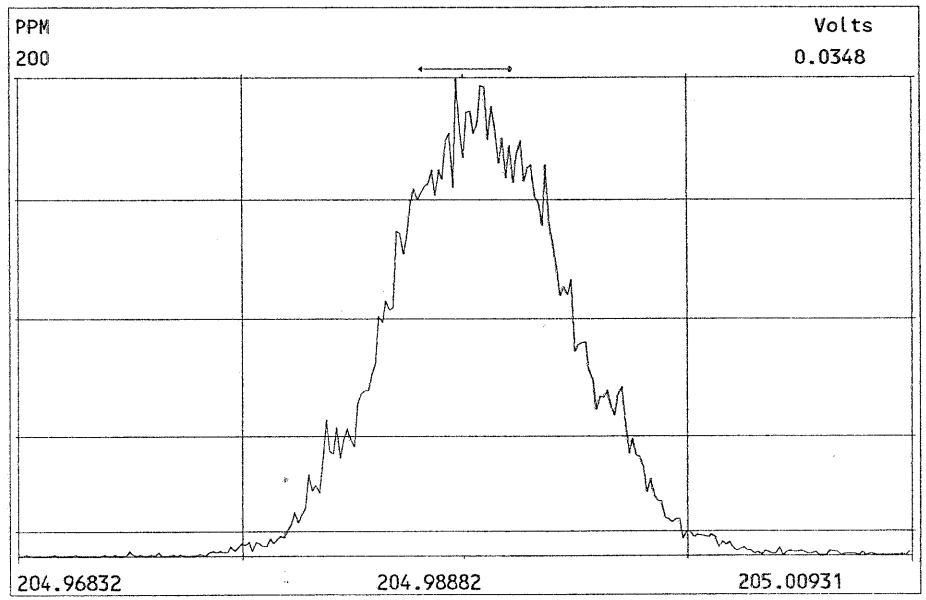


Peak Locate Examination: 7-AUG-2019:00:21 File:06AUG19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

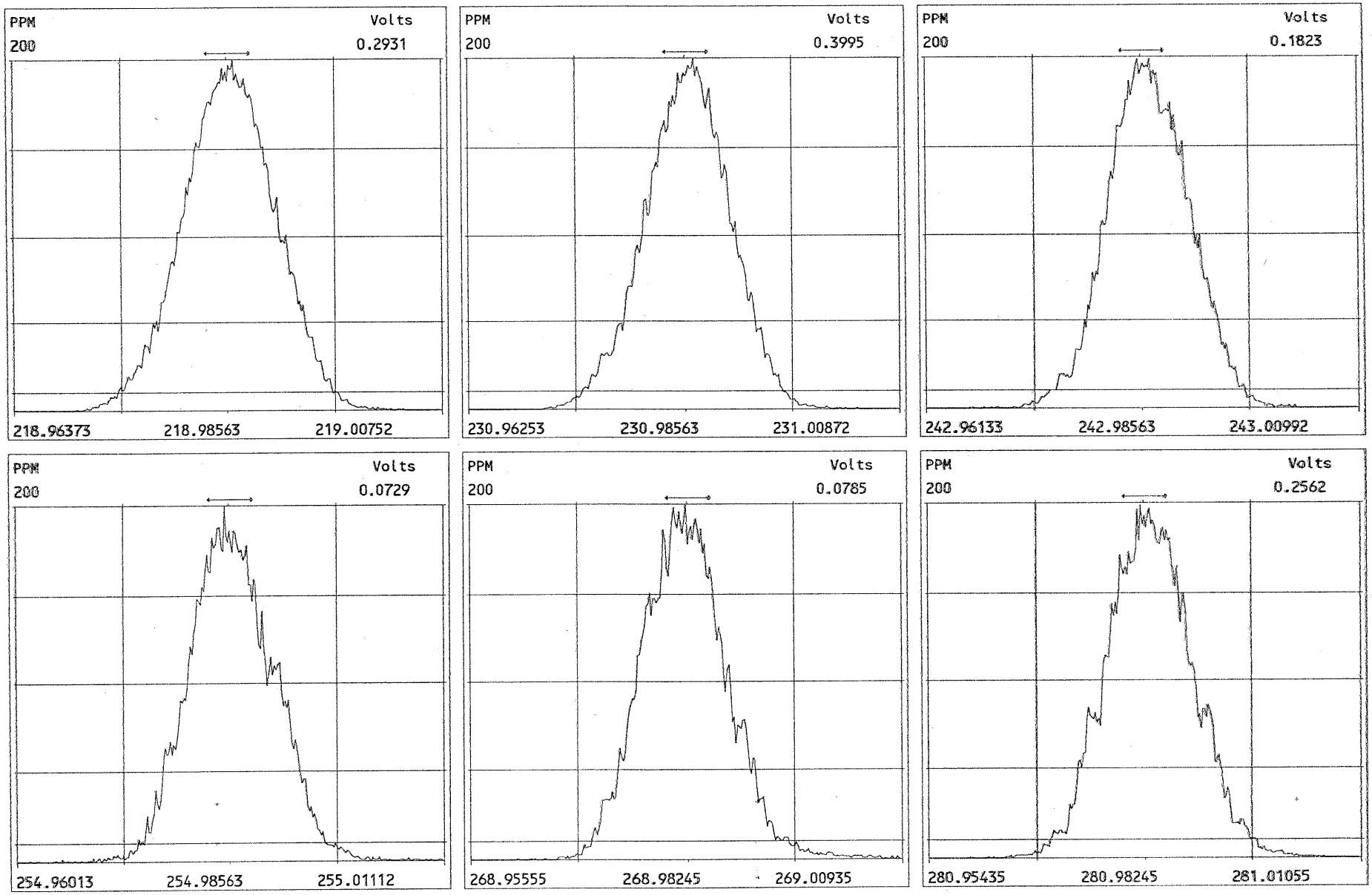




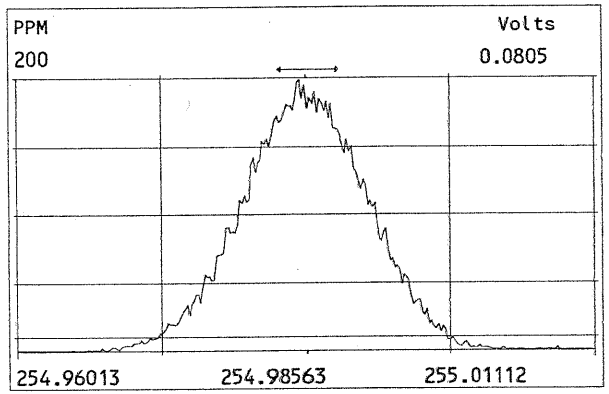


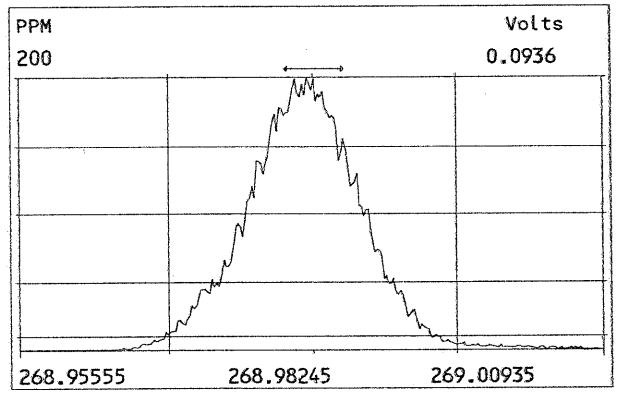


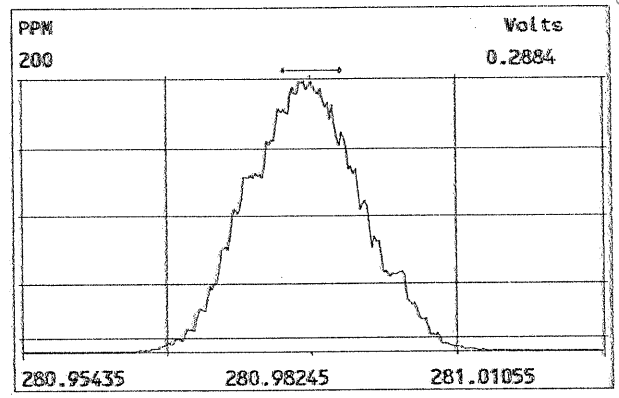
Peak Locate Examination: 7-AUG-2019:00:24 File:06AUG19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

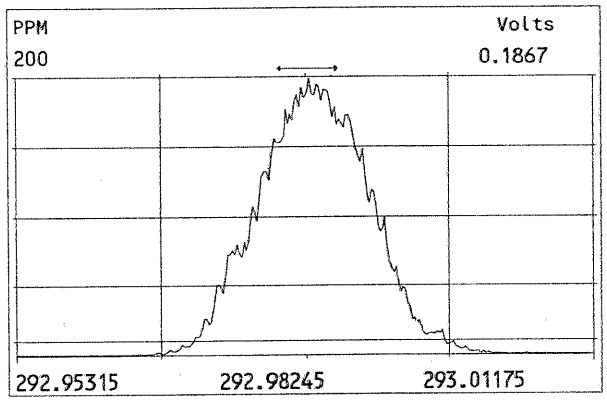


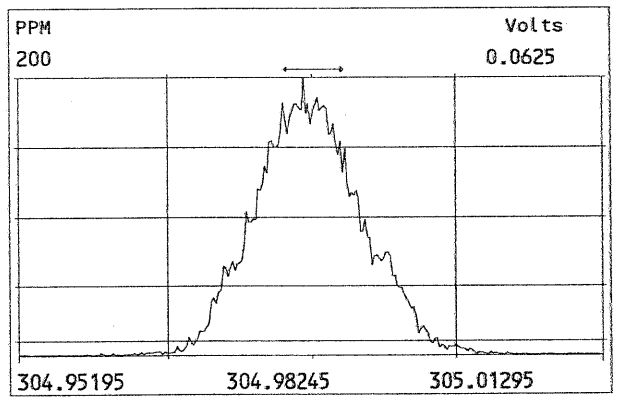
Peak Locate Examination: 7-AUG-2019:00:26 File:06AUG19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

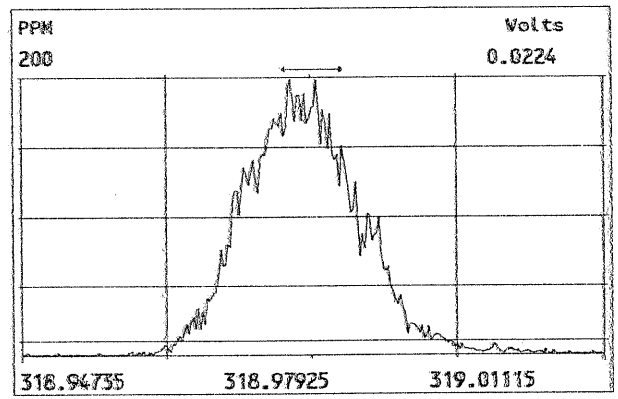


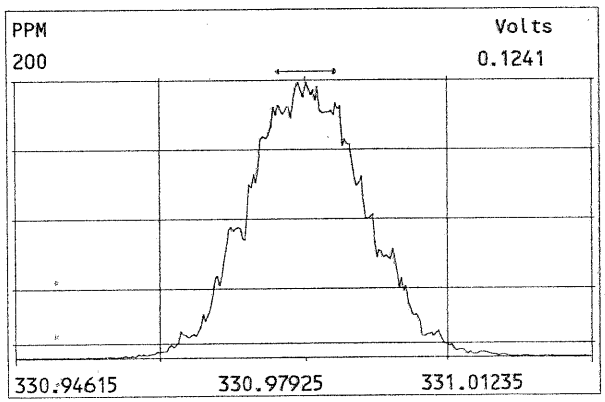


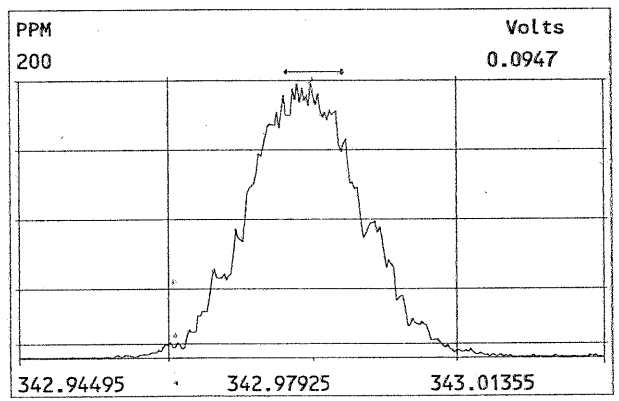




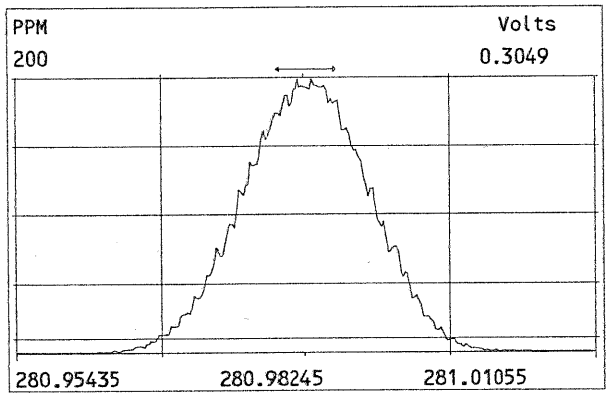


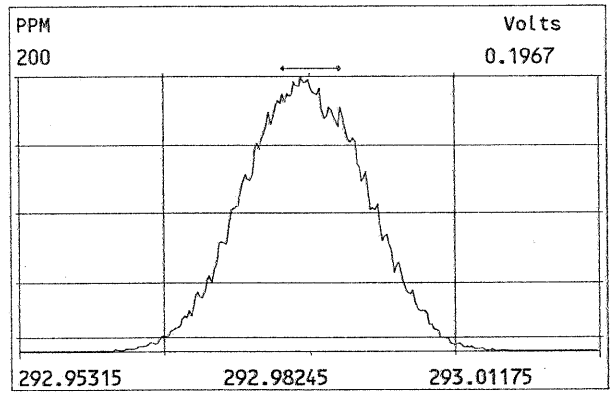


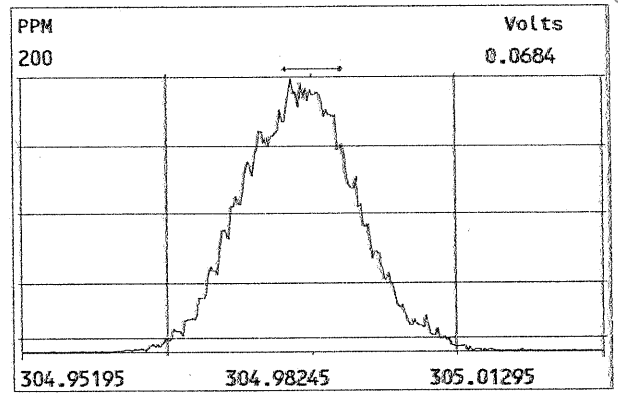


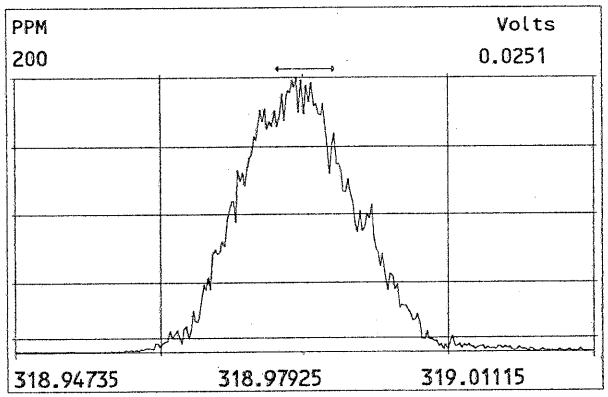


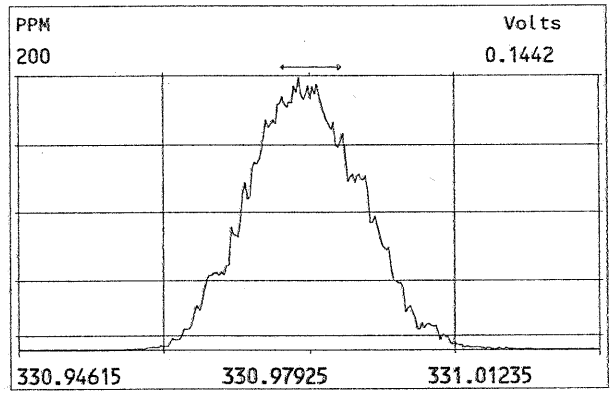
Peak Locate Examination: 7-AUG-2019:00:28 File:06AUG19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

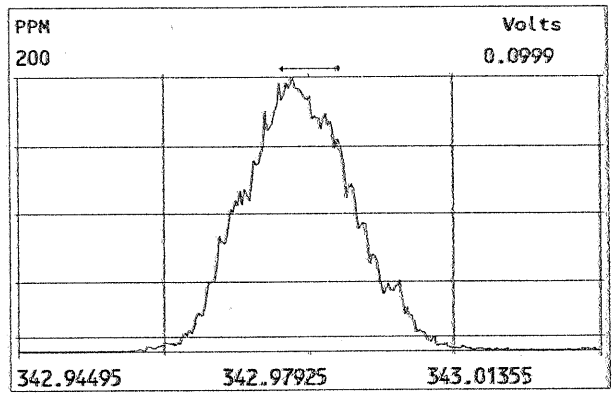


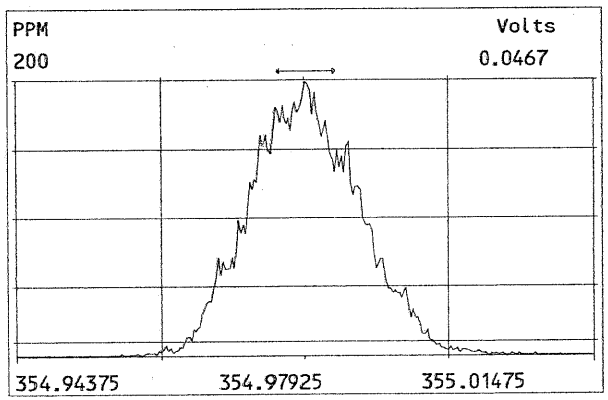


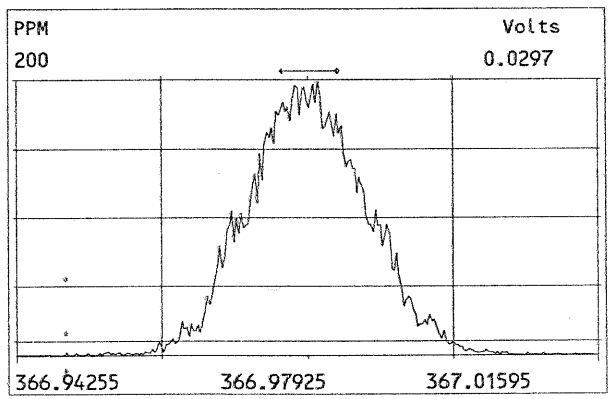


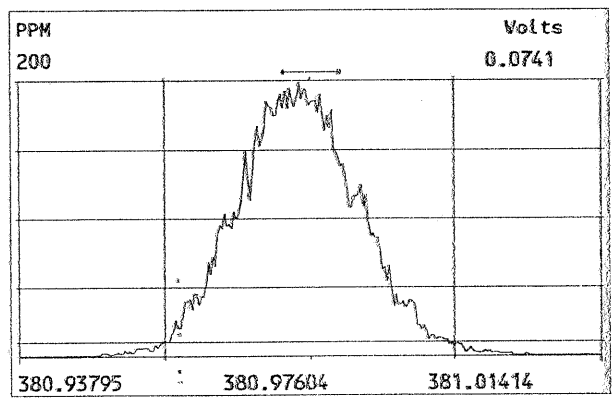




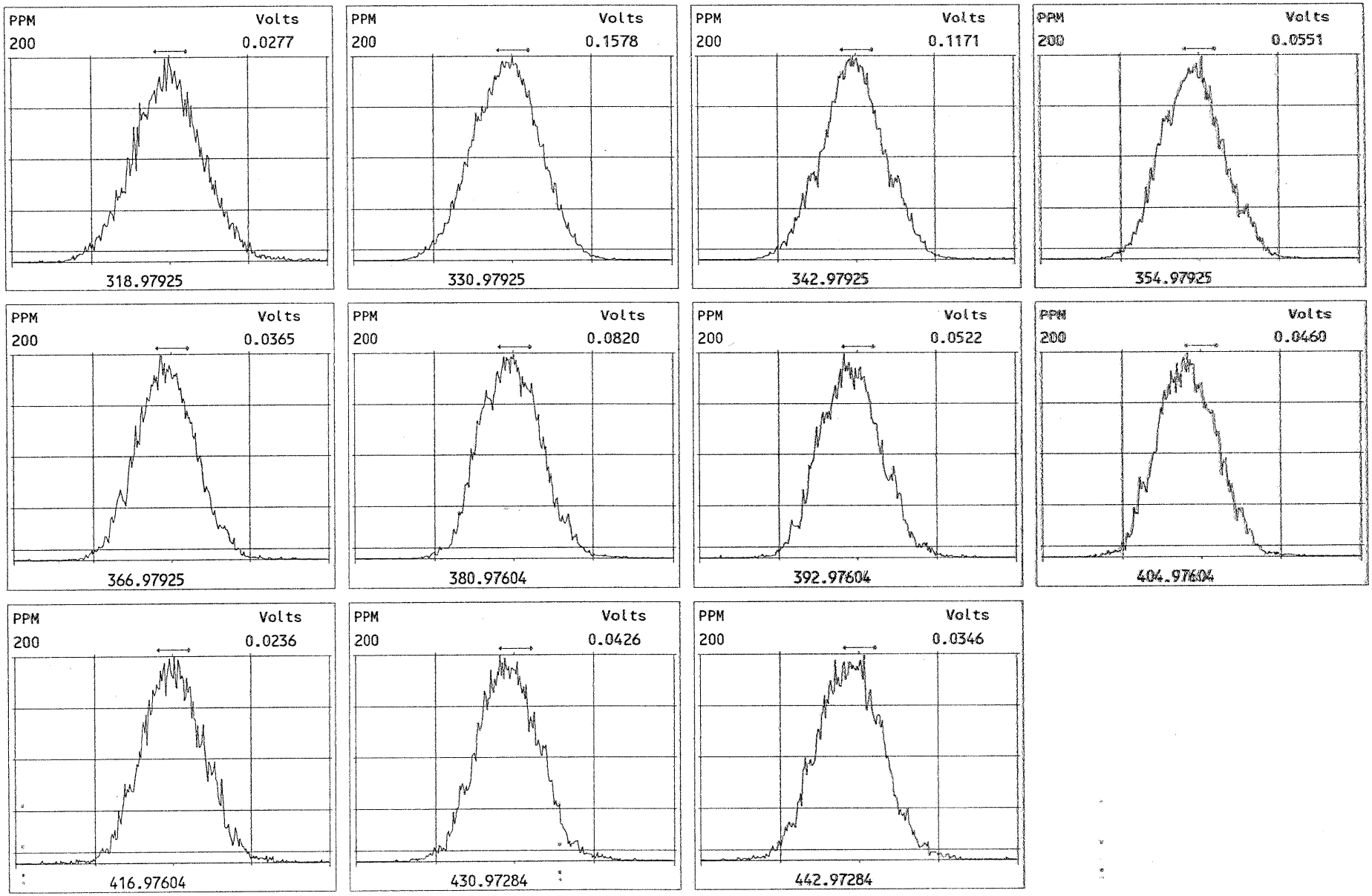
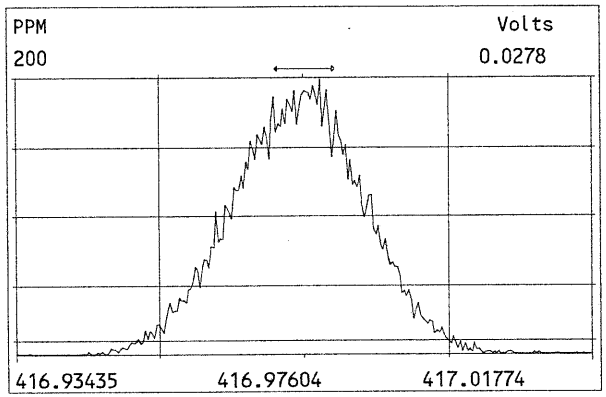
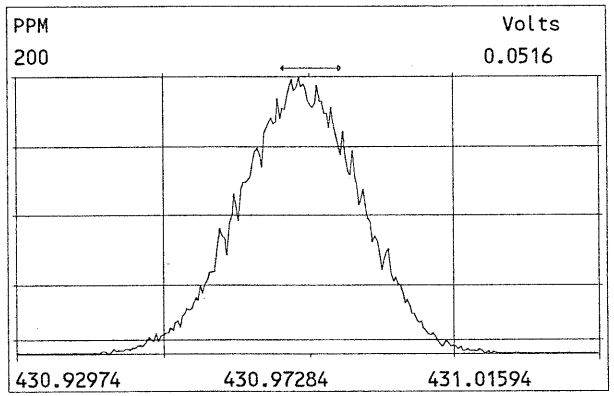
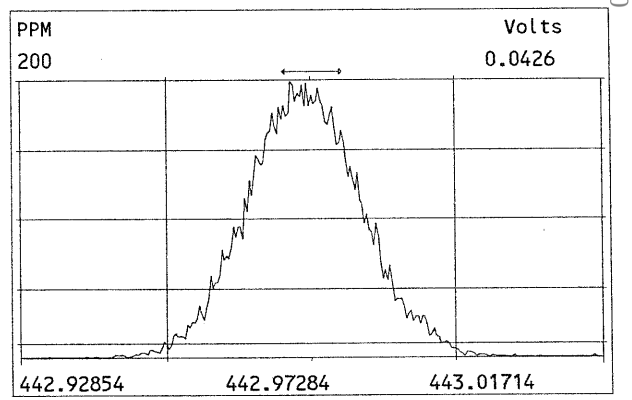
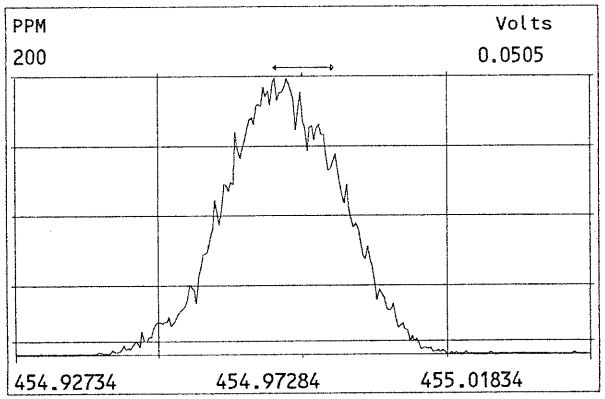
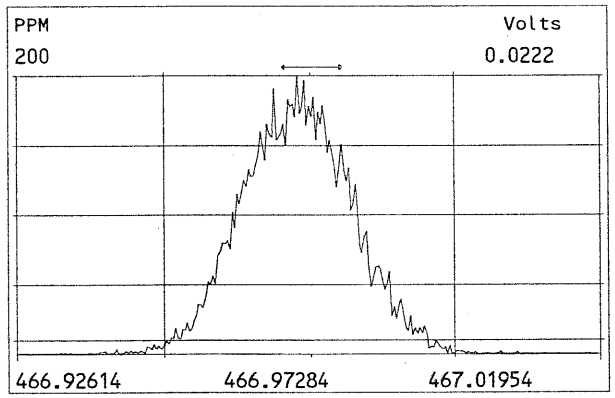
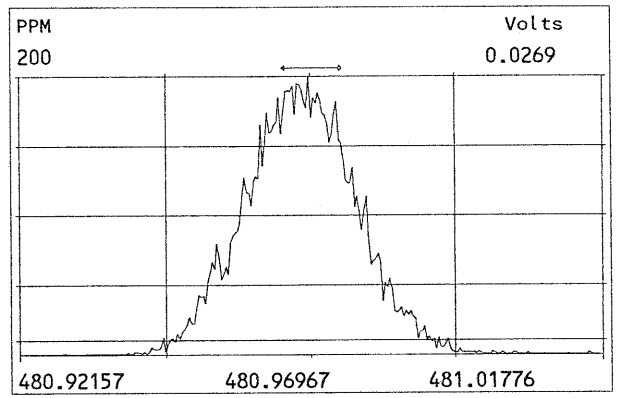
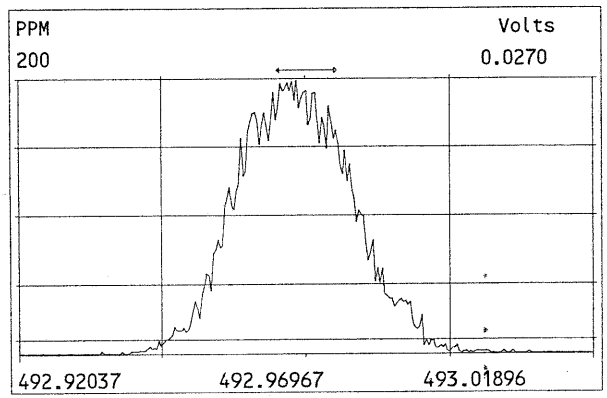
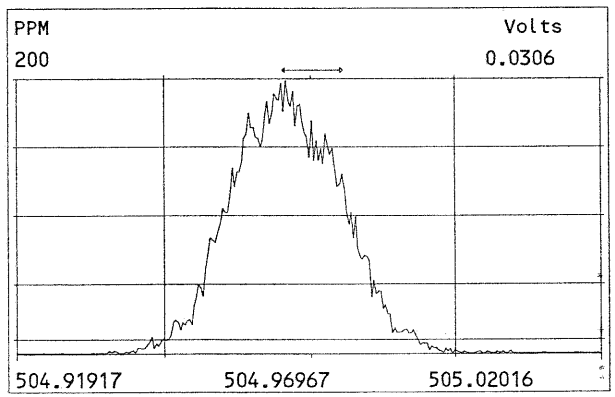
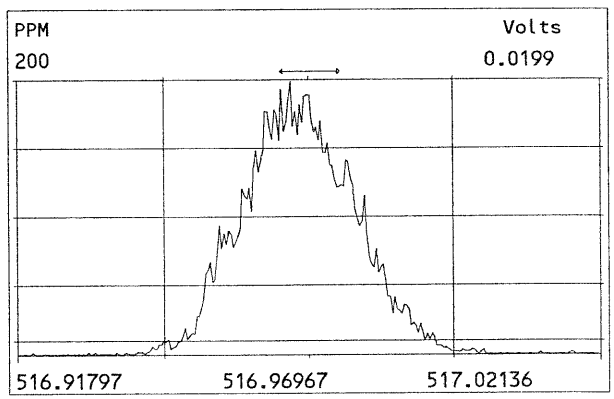








Peak Locate Examination: 7-AUG-2019:00:31 File:06AUG19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK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Experiment:1668PCB Function:6 Reference:PFK