August 7, 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 combined 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: **12511**

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
12511-001-SA	0	LY15160310	LDW-Y2-IN-ENR+AC-CB-S010	EPA 1668 PCB	Solvent	06/25/2019	09:58 am	06/24/2020
12511-002-SA	0	LY15160310	LDW-Y2-IN-ENR+AC-CC-S010	EPA 1668 PCB	Solvent	06/25/2019	10:18 am	06/24/2020
12511-003-SA	0	LY15160310	LDW-Y2-IN-ENR+AC-CD-S010	EPA 1668 PCB	Solvent	06/25/2019	10:10 am	06/24/2020
12511-004-SA	0	LY15160310	LDW-Y2-IN-ENR+AC-CE-S010	EPA 1668 PCB	Solvent	06/25/2019	10:30 am	06/24/2020
12511-005-SA	0	LY15160310	LDW-Y2-IN-ENR-CA-S010	EPA 1668 PCB	Solvent	06/25/2019	11:08 am	06/24/2020
12511-006-SA	0	LY15160310	LDW-Y2-IN-ENR-CB-S010	EPA 1668 PCB	Solvent	06/25/2019	11:25 am	06/24/2020
12511-007-SA	0	LY15160310	LDW-Y2-IN-ENR-CC-S010	EPA 1668 PCB	Solvent	06/25/2019	11:33 am	06/24/2020
12511-008-SA	0	LY15160310	LDW-Y2-IN-ENR-CD-S010	EPA 1668 PCB	Solvent	06/25/2019	11:45 am	06/24/2020
12511-009-SA	0	LY15160310	LDW-Y2-IN-ENR-CE-S010	EPA 1668 PCB	Solvent	06/25/2019	11:57 am	06/24/2020
12511-010-SA	0	LY15160310	LDW-Y2-IN-ENR+AC-CA-SSWI	EPA 1668 PCB	Solvent	06/24/2019	02:13 pm	06/23/2020
12511-011-SA	0	LY15160310	LDW-Y2-IN-ENR+AC-CB-SSWI	EPA 1668 PCB	Solvent	06/24/2019	02:22 pm	06/23/2020
12511-012-SA	0	LY15160310	LDW-Y2-IN-ENR+AC-CC-SSWI	EPA 1668 PCB	Solvent	06/24/2019	02:29 pm	06/23/2020
12511-013-SA	0	LY15160310	LDW-Y2-IN-ENR+AC-CD-SSWI	EPA 1668 PCB	Solvent	06/24/2019	02:41 pm	06/23/2020
12511-014-SA	0	LY15160310	LDW-Y2-IN-ENR+AC-CE-SSWI	EPA 1668 PCB	Solvent	06/24/2019	02:53 pm	06/23/2020
12511-015-SA	0	LY15160310	LDW-Y2-IN-ENR-CA-SSWI	EPA 1668 PCB	Solvent	06/24/2019	01:31 pm	06/23/2020

FAL Sample ID	Notes
12511-001-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12511-002-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12511-003-SA	Extract and hold sample.
12511-004-SA	Extract and hold sample.
12511-005-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12511-006-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12511-007-SA	Extract and hold sample.
12511-008-SA	Extract and hold sample.
12511-009-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12511-010-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12511-011-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12511-012-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12511-013-SA	Extract and hold sample.
12511-014-SA	Extract and hold sample.
12511-015-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019

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EPA Method 1668
PCBs

FAL ID: 12511-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019
Total Conc: 0.0

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.00			PCB-51	ND	4.25		
PCB-2	ND	2.11			PCB-52	ND	4.42	C	69
PCB-3	ND	2.30			PCB-53	ND	4.39		
PCB-4	ND	8.36			PCB-54	ND	3.37		
PCB-5	ND	6.96			PCB-55	ND	3.78		
PCB-6	ND	6.74			PCB-56	ND	2.72	C	60
PCB-7	ND	6.90			PCB-57	ND	3.90		
PCB-8	ND	7.37			PCB-58	ND	3.87		
PCB-9	ND	7.18			PCB-59	-	-	C042	42
PCB-10	ND	7.85			PCB-60	-	-	C056	56
PCB-11	ND	7.93			PCB-61	ND	4.14	C	70
PCB-12	ND	7.58			PCB-62	ND	3.68		
PCB-13	ND	7.72			PCB-63	ND	3.86		
PCB-14	ND	7.44			PCB-64	-	-	C041	41/71/72
PCB-15	ND	7.82			PCB-65	ND	4.01		
PCB-16	ND	2.51			PCB-66	ND	3.78	C	76
PCB-17	ND	2.82			PCB-67	ND	3.96		
PCB-18	ND	3.02			PCB-68	ND	3.54		
PCB-19	ND	3.01			PCB-69	-	-	C052	52
PCB-20	ND	3.88	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	3.64			PCB-72	-	-	C041	41/64/71
PCB-23	ND	3.72			PCB-73	ND	3.36		
PCB-24	ND	2.08			PCB-74	ND	3.96		
PCB-25	ND	3.80			PCB-75	-	-	C048	48
PCB-26	ND	3.63			PCB-76	-	-	C066	66
PCB-27	ND	2.07			PCB-77	ND	3.31		
PCB-28	ND	3.18			PCB-78	ND	3.12		
PCB-29	ND	3.57			PCB-79	ND	2.88		
PCB-30	ND	2.00			PCB-80	ND	3.29		
PCB-31	ND	3.70			PCB-81	ND	2.75		
PCB-32	ND	2.39			PCB-82	ND	5.21		
PCB-33	-	-	C020	20/21	PCB-83	ND	3.55	C	112
PCB-34	ND	3.67			PCB-84	ND	3.58	C	92
PCB-35	ND	4.33			PCB-85	ND	3.60	C	116
PCB-36	ND	3.94			PCB-86	ND	4.40		
PCB-37	ND	4.09			PCB-87	ND	3.28	C	117/125
PCB-38	ND	4.01			PCB-88	ND	3.37	C	91
PCB-39	ND	3.95			PCB-89	ND	3.58		
PCB-40	ND	6.50			PCB-90	ND	3.20	C	101
PCB-41	ND	4.03	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	4.53	C	59	PCB-92	-	-	C084	84
PCB-43	ND	4.92	C	49	PCB-93	ND	3.72		
PCB-44	ND	5.92			PCB-94	ND	3.76		
PCB-45	ND	5.07			PCB-95	ND	3.62		
PCB-46	ND	5.35			PCB-96	ND	2.47		
PCB-47	ND	4.64			PCB-97	ND	4.35		
PCB-48	ND	3.99	C	75	PCB-98	ND	3.60	C	102
PCB-49	-	-	C043	43	PCB-99	ND	2.80		
PCB-50	ND	4.35			PCB-100	ND	3.09		

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EPA Method 1668
PCBs

FAL ID: 12511-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	4.01		
PCB-102	-	-	C098	98	PCB-152	ND	3.21		
PCB-103	ND	3.07			PCB-153	ND	3.18		
PCB-104	ND	2.33			PCB-154	ND	4.23		
PCB-105	ND	3.72			PCB-155	ND	2.79		
PCB-106	ND	3.66	C	118	PCB-156	ND	2.56		
PCB-107	ND	3.61	C	108	PCB-157	ND	2.87		
PCB-108	-	-	C107	107	PCB-158	ND	2.71	C	160
PCB-109	ND	2.94			PCB-159	ND	2.61		
PCB-110	ND	3.02			PCB-160	-	-	C158	158
PCB-111	ND	2.72	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	2.87			PCB-163	-	-	C138	138/164
PCB-114	ND	3.56			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	2.80		
PCB-117	-	-	C087	87/125	PCB-167	ND	2.55		
PCB-118	-	-	C	106	PCB-168	ND	2.79		
PCB-119	ND	2.60			PCB-169	ND	2.99		
PCB-120	ND	2.78			PCB-170	ND	4.50		
PCB-121	ND	2.79			PCB-171	ND	4.33		
PCB-122	ND	3.70			PCB-172	ND	4.50		
PCB-123	ND	3.69			PCB-173	ND	4.77		
PCB-124	ND	3.82			PCB-174	ND	4.59		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.24		
PCB-126	ND	4.30			PCB-176	ND	3.21		
PCB-127	ND	3.78			PCB-177	ND	5.07		
PCB-128	ND	3.26	C	162	PCB-178	ND	5.00		
PCB-129	ND	4.38			PCB-179	ND	3.20		
PCB-130	ND	4.41			PCB-180	ND	4.51		
PCB-131	ND	4.24	C	133	PCB-181	ND	4.05		
PCB-132	ND	3.25	C	161	PCB-182	ND	3.98	C	187
PCB-133	-	-	C131	131	PCB-183	ND	4.07		
PCB-134	ND	4.08	C	143	PCB-184	ND	3.12		
PCB-135	ND	3.89			PCB-185	ND	4.54		
PCB-136	ND	3.56			PCB-186	ND	3.22		
PCB-137	ND	3.66			PCB-187	-	-	C182	182
PCB-138	ND	2.98	C	163/164	PCB-188	ND	3.09		
PCB-139	ND	3.43	C	149	PCB-189	ND	3.09		
PCB-140	ND	3.52			PCB-190	ND	3.14		
PCB-141	ND	3.85			PCB-191	ND	3.22		
PCB-142	ND	4.15			PCB-192	ND	3.41		
PCB-143	-	-	C134	134	PCB-193	ND	3.19		
PCB-144	ND	3.79			PCB-194	ND	3.06		
PCB-145	ND	3.36			PCB-195	ND	3.35		
PCB-146	ND	3.02	C	165	PCB-196	ND	2.97	C	203
PCB-147	ND	3.33			PCB-197	ND	2.53		
PCB-148	ND	4.77			PCB-198	ND	3.66		
PCB-149	-	-	C139	139	PCB-199	ND	3.22		
PCB-150	ND	2.91			PCB-200	ND	2.66		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12511-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.74		
PCB-202	ND	2.64		
PCB-203	-	-	C196	196
PCB-204	ND	2.44		
PCB-205	ND	2.37		
PCB-206	ND	2.89		
PCB-207	ND	2.22		
PCB-208	ND	2.12		
PCB-209	ND	2.72		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	83.2	5.00 - 145	
13C-PCB-3	84.6	5.00 - 145	
13C-PCB-4	87.5	5.00 - 145	
13C-PCB-15	86.4	5.00 - 145	
13C-PCB-19	92.0	5.00 - 145	
13C-PCB-37	91.7	5.00 - 145	
13C-PCB-54	96.5	5.00 - 145	
13C-PCB-77	97.0	10.0 - 145	
13C-PCB-81	97.6	10.0 - 145	
13C-PCB-104	104	10.0 - 145	
13C-PCB-105	85.7	10.0 - 145	
13C-PCB-114	89.7	10.0 - 145	
13C-PCB-118	90.2	10.0 - 145	
13C-PCB-123	93.2	10.0 - 145	
13C-PCB-126	86.2	10.0 - 145	
13C-PCB-155	100	10.0 - 145	
13C-PCB-156	81.2	10.0 - 145	
13C-PCB-157	83.7	10.0 - 145	
13C-PCB-167	88.0	10.0 - 145	
13C-PCB-169	74.5	10.0 - 145	
13C-PCB-188	95.0	10.0 - 145	
13C-PCB-189	89.8	10.0 - 145	
13C-PCB-202	97.0	10.0 - 145	
13C-PCB-205	92.7	10.0 - 145	
13C-PCB-206	97.8	10.0 - 145	
13C-PCB-208	97.9	10.0 - 145	
13C-PCB-209	95.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	97.6	5.00 - 145	
13C-PCB-111	95.9	10.0 - 145	
13C-PCB-178	95.4	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: 8/7/2019

Reviewed By: DPV

Date: 8/7/2019

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EPA Method 1668
PCBs

FAL ID: 12511-001-OPR
Client ID: OPR
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: ng/ml

Acquired: 08-02-2019

Compound	% Recovery	QC Limits	Qual
PCB-1	94.2	60.0 - 135	
PCB-3	94.6	60.0 - 135	
PCB-4	81.4	60.0 - 135	
PCB-15	84.6	60.0 - 135	
PCB-19	93.8	60.0 - 135	
PCB-37	87.2	60.0 - 135	
PCB-54	95.4	60.0 - 135	
PCB-77	95.8	60.0 - 135	
PCB-81	84.2	60.0 - 135	
PCB-104	94.8	60.0 - 135	
PCB-105	85.6	60.0 - 135	
PCB-114	87.0	60.0 - 135	
PCB-118	96.8	60.0 - 135	
PCB-123	93.8	60.0 - 135	
PCB-126	88.6	60.0 - 135	
PCB-155	87.0	60.0 - 135	
PCB-156	88.2	60.0 - 135	
PCB-157	92.4	60.0 - 135	
PCB-167	92.2	60.0 - 135	
PCB-169	99.6	60.0 - 135	
PCB-188	95.4	60.0 - 135	
PCB-189	91.2	60.0 - 135	
PCB-202	97.0	60.0 - 135	
PCB-205	92.2	60.0 - 135	
PCB-206	96.4	60.0 - 135	
PCB-208	95.2	60.0 - 135	
PCB-209	95.0	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	83.5	15.0 - 145	
13C-PCB-3	87.2	15.0 - 145	
13C-PCB-4	88.4	15.0 - 145	
13C-PCB-15	90.9	15.0 - 145	
13C-PCB-19	95.5	15.0 - 145	
13C-PCB-37	99.0	15.0 - 145	
13C-PCB-54	99.5	15.0 - 145	
13C-PCB-77	105	40.0 - 145	
13C-PCB-81	105	40.0 - 145	
13C-PCB-104	107	40.0 - 145	
13C-PCB-105	93.5	40.0 - 145	
13C-PCB-114	97.1	40.0 - 145	
13C-PCB-118	96.2	40.0 - 145	
13C-PCB-123	99.5	40.0 - 145	
13C-PCB-126	95.3	40.0 - 145	
13C-PCB-155	123	40.0 - 145	
13C-PCB-156	97.9	40.0 - 145	
13C-PCB-157	96.5	40.0 - 145	
13C-PCB-167	99.7	40.0 - 145	
13C-PCB-169	90.9	40.0 - 145	
13C-PCB-188	95.5	40.0 - 145	
13C-PCB-189	102	40.0 - 145	
13C-PCB-202	104	40.0 - 145	
13C-PCB-205	98.1	40.0 - 145	
13C-PCB-206	93.4	40.0 - 145	
13C-PCB-208	92.9	40.0 - 145	
13C-PCB-209	93.2	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	96.3	15.0 - 145	
13C-PCB-111	99.0	40.0 - 145	
13C-PCB-178	101	40.0 - 145	

Analyst: _____

Date: 8/7/2019

Reviewed By: DPV

Date: 8/7/2019

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EPA Method 1668
PCBs

FAL ID: 12511-001-SA
Client ID: LDW-Y2-IN-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019
Total Conc: 57200

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.16			PCB-51	19.3	-	J	
PCB-2	ND	2.27			PCB-52	784	-	C	69
PCB-3	ND	2.46			PCB-53	67.9	-		
PCB-4	23.6	-			PCB-54	ND	2.54		
PCB-5	ND	7.84			PCB-55	36.0	-		
PCB-6	18.8	-	J		PCB-56	94.6	-	C	60
PCB-7	ND	7.77			PCB-57	ND	2.94		
PCB-8	45.9	-			PCB-58	ND	2.91		
PCB-9	ND	8.09			PCB-59	-	-	C042	42
PCB-10	ND	8.85			PCB-60	-	-	C056	56
PCB-11	32.8	-			PCB-61	243	-	C	70
PCB-12	ND	8.54			PCB-62	ND	2.76		
PCB-13	ND	8.70			PCB-63	12.5	-	J	
PCB-14	227	-			PCB-64	-	-	C041	41/71/72
PCB-15	18.0	-	J		PCB-65	ND	3.02		
PCB-16	44.1	-			PCB-66	201	-	C	76
PCB-17	73.9	-			PCB-67	10.3	-	J	
PCB-18	174	-			PCB-68	14.6	-	J	
PCB-19	25.5	-			PCB-69	-	-	C052	52
PCB-20	73.1	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	43.0	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	5.55			PCB-73	ND	2.53		
PCB-24	12.3	-	J		PCB-74	98.8	-		
PCB-25	34.6	-			PCB-75	-	-	C048	48
PCB-26	72.6	-			PCB-76	-	-	C066	66
PCB-27	11.4	-	J		PCB-77	15.2	-	J	
PCB-28	149	-			PCB-78	2270	-		
PCB-29	ND	5.31			PCB-79	10.7	-	J	
PCB-30	ND	2.02			PCB-80	ND	2.47		
PCB-31	152	-			PCB-81	17.4	-	J	
PCB-32	44.6	-			PCB-82	74.1	-		
PCB-33	-	-	C020	20/21	PCB-83	35.3	-	C	112
PCB-34	ND	5.47			PCB-84	368	-	C	92
PCB-35	ND	6.44			PCB-85	103	-	C	116
PCB-36	565	-			PCB-86	ND	7.70		
PCB-37	24.4	-			PCB-87	247	-	C	117/125
PCB-38	ND	5.97			PCB-88	ND	2.16	C	91
PCB-39	ND	5.89			PCB-89	11.1	-	J	
PCB-40	46.9	-			PCB-90	642	-	C	101
PCB-41	243	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	113	-	C	59	PCB-92	-	-	C084	84
PCB-43	398	-	C	49	PCB-93	ND	2.39		
PCB-44	358	-			PCB-94	ND	2.41		
PCB-45	48.0	-			PCB-95	876	-		
PCB-46	19.6	-	J		PCB-96	8.14	-	J	
PCB-47	122	-			PCB-97	198	-		
PCB-48	58.6	-	C	75	PCB-98	ND	2.32	C	102
PCB-49	-	-	C043	43	PCB-99	270	-		
PCB-50	9.43	-	J		PCB-100	11.5	-	J	

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EPA Method 1668
PCBs

FAL ID: 12511-001-SA
Client ID: LDW-Y2-IN-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	153	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.96		
PCB-103	14.1	-	J		PCB-153	582	-		
PCB-104	2260	-			PCB-154	27.0	-		
PCB-105	131	-			PCB-155	4020	-		
PCB-106	371	-	C	118	PCB-156	35.2	-		
PCB-107	35.7	-	C	108	PCB-157	13.1	-	J	
PCB-108	-	-	C107	107	PCB-158	54.6	-	C	160
PCB-109	ND	5.15			PCB-159	ND	3.40		
PCB-110	751	-			PCB-160	-	-	C158	158
PCB-111	12.2	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.01			PCB-163	-	-	C138	138/164
PCB-114	ND	3.49			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.64		
PCB-117	-	-	C087	87/125	PCB-167	18.1	-	J	
PCB-118	-	-	C	106	PCB-168	ND	3.63		
PCB-119	21.1	-			PCB-169	ND	3.08		
PCB-120	ND	4.86			PCB-170	48.9	-		
PCB-121	4010	-			PCB-171	17.4	-	J	
PCB-122	ND	3.77			PCB-172	116	-		
PCB-123	7.87	-	J		PCB-173	ND	3.41		
PCB-124	22.6	-			PCB-174	78.0	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.03		
PCB-126	ND	4.28			PCB-176	15.6	-	J	
PCB-127	ND	3.85			PCB-177	42.9	-		
PCB-128	65.8	-	C	162	PCB-178	25.1	-		
PCB-129	29.3	-			PCB-179	ND	2.29		
PCB-130	44.7	-			PCB-180	142	-		
PCB-131	12.8	-	C,J	133	PCB-181	ND	2.89		
PCB-132	144	-	C	161	PCB-182	110	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	53.2	-		
PCB-134	36.0	-	C	143	PCB-184	5650	-		
PCB-135	102	-			PCB-185	11.0	-	J	
PCB-136	118	-			PCB-186	ND	2.30		
PCB-137	29.9	-			PCB-187	-	-	C182	182
PCB-138	517	-	C	163/164	PCB-188	6.10	-	J	
PCB-139	527	-	C	149	PCB-189	ND	2.12		
PCB-140	ND	4.58			PCB-190	10.7	-	J	
PCB-141	98.5	-			PCB-191	ND	2.30		
PCB-142	13700	-			PCB-192	3680	-		
PCB-143	-	-	C134	134	PCB-193	ND	2.27		
PCB-144	35.2	-			PCB-194	16.7	-	J	
PCB-145	ND	2.05			PCB-195	7.81	-	J	
PCB-146	108	-	C	165	PCB-196	25.4	-	C	203
PCB-147	16.9	-	J		PCB-197	59.4	-		
PCB-148	ND	2.91			PCB-198	ND	2.93		
PCB-149	-	-	C139	139	PCB-199	21.7	-		
PCB-150	ND	1.78			PCB-200	ND	2.13		

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EPA Method 1668
PCBs

FAL ID: 12511-001-SA
Client ID: LDW-Y2-IN-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.20		
PCB-202	9.05	-	J	
PCB-203	-	-	C196	196
PCB-204	8780	-		
PCB-205	ND	2.32		
PCB-206	5.75	-	J	
PCB-207	37.4	-		
PCB-208	ND	2.34		
PCB-209	45.8	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	79.6	5.00 - 145	
13C-PCB-3	82.3	5.00 - 145	
13C-PCB-4	85.8	5.00 - 145	
13C-PCB-15	83.9	5.00 - 145	
13C-PCB-19	93.2	5.00 - 145	
13C-PCB-37	93.6	5.00 - 145	
13C-PCB-54	88.9	5.00 - 145	
13C-PCB-77	100	10.0 - 145	
13C-PCB-81	101	10.0 - 145	
13C-PCB-104	96.7	10.0 - 145	
13C-PCB-105	84.6	10.0 - 145	
13C-PCB-114	89.4	10.0 - 145	
13C-PCB-118	87.7	10.0 - 145	
13C-PCB-123	90.6	10.0 - 145	
13C-PCB-126	85.7	10.0 - 145	
13C-PCB-155	95.3	10.0 - 145	
13C-PCB-156	78.4	10.0 - 145	
13C-PCB-157	80.2	10.0 - 145	
13C-PCB-167	82.7	10.0 - 145	
13C-PCB-169	79.6	10.0 - 145	
13C-PCB-188	91.0	10.0 - 145	
13C-PCB-189	82.0	10.0 - 145	
13C-PCB-202	87.5	10.0 - 145	
13C-PCB-205	88.0	10.0 - 145	
13C-PCB-206	85.9	10.0 - 145	
13C-PCB-208	90.1	10.0 - 145	
13C-PCB-209	83.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	96.9	5.00 - 145	
13C-PCB-111	106	10.0 - 145	
13C-PCB-178	98.4	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: 8/7/2019

Reviewed By: DPV

Date: 8/7/2019

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EPA Method 1668
PCBs

FAL ID: 12511-002-SA
Client ID: LDW-Y2-IN-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019
Total Conc: 52200

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.28			PCB-51	18.5	-	J	
PCB-2	ND	2.41			PCB-52	532	-	C	69
PCB-3	ND	2.63			PCB-53	56.6	-		
PCB-4	20.5	-			PCB-54	ND	2.83		
PCB-5	ND	7.51			PCB-55	39.1	-		
PCB-6	16.8	-	J		PCB-56	73.3	-	C	60
PCB-7	ND	7.44			PCB-57	5.76	-	J	
PCB-8	38.5	-			PCB-58	ND	3.24		
PCB-9	ND	7.74			PCB-59	-	-	C042	42
PCB-10	ND	8.47			PCB-60	-	-	C056	56
PCB-11	34.7	-			PCB-61	181	-	C	70
PCB-12	ND	8.17			PCB-62	ND	3.08		
PCB-13	ND	8.33			PCB-63	9.27	-	J	
PCB-14	197	-			PCB-64	-	-	C041	41/71/72
PCB-15	15.0	-	J		PCB-65	ND	3.36		
PCB-16	31.8	-			PCB-66	169	-	C	76
PCB-17	58.2	-			PCB-67	7.96	-	J	
PCB-18	140	-			PCB-68	12.7	-	J	
PCB-19	20.3	-			PCB-69	-	-	C052	52
PCB-20	68.8	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	41.6	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.86			PCB-73	15.7	-	J	
PCB-24	9.84	-	J		PCB-74	75.2	-		
PCB-25	29.9	-			PCB-75	-	-	C048	48
PCB-26	59.3	-			PCB-76	-	-	C066	66
PCB-27	9.22	-	J		PCB-77	14.1	-	J	
PCB-28	148	-			PCB-78	2160	-		
PCB-29	ND	4.66			PCB-79	8.30	-	J	
PCB-30	ND	2.79			PCB-80	9.40	-	J	
PCB-31	172	-			PCB-81	27.2	-		
PCB-32	42.3	-			PCB-82	52.7	-		
PCB-33	-	-	C020	20/21	PCB-83	29.1	-	C	112
PCB-34	ND	4.79			PCB-84	263	-	C	92
PCB-35	ND	5.64			PCB-85	71.3	-	C	116
PCB-36	533	-			PCB-86	ND	13.8		
PCB-37	26.7	-			PCB-87	174	-	C	117/125
PCB-38	ND	5.23			PCB-88	ND	2.07	C	91
PCB-39	ND	5.16			PCB-89	9.39	-	J	
PCB-40	39.1	-			PCB-90	447	-	C	101
PCB-41	196	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	85.7	-	C	59	PCB-92	-	-	C084	84
PCB-43	305	-	C	49	PCB-93	ND	2.28		
PCB-44	287	-			PCB-94	ND	2.31		
PCB-45	48.8	-			PCB-95	595	-		
PCB-46	19.0	-	J		PCB-96	6.78	-	J	
PCB-47	103	-			PCB-97	13.1	-	J	
PCB-48	47.2	-	C	75	PCB-98	ND	2.22	C	102
PCB-49	-	-	C043	43	PCB-99	193	-		
PCB-50	6.89	-	J		PCB-100	11.9	-	J	

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EPA Method 1668
PCBs

FAL ID: 12511-002-SA
Client ID: LDW-Y2-IN-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	102	-		
PCB-102	-	-	C098	98	PCB-152	ND	2.51		
PCB-103	10.9	-	J		PCB-153	430	-		
PCB-104	2020	-			PCB-154	28.9	-		
PCB-105	100	-			PCB-155	3690	-		
PCB-106	281	-	C	118	PCB-156	21.1	-		
PCB-107	27.1	-	C	108	PCB-157	ND	4.03		
PCB-108	-	-	C107	107	PCB-158	42.2	-	C	160
PCB-109	ND	9.23			PCB-159	10.5	-	J	
PCB-110	522	-			PCB-160	-	-	C158	158
PCB-111	9.38	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	8.98			PCB-163	-	-	C138	138/164
PCB-114	ND	4.50			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.10		
PCB-117	-	-	C087	87/125	PCB-167	13.9	-	J	
PCB-118	-	-	C	106	PCB-168	ND	4.08		
PCB-119	15.6	-	J		PCB-169	ND	4.12		
PCB-120	ND	8.71			PCB-170	37.4	-		
PCB-121	3740	-			PCB-171	19.6	-	J	
PCB-122	ND	4.47			PCB-172	130	-		
PCB-123	7.25	-	J		PCB-173	ND	4.57		
PCB-124	16.3	-	J		PCB-174	55.5	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.07		
PCB-126	ND	5.27			PCB-176	10.6	-	J	
PCB-127	ND	4.56			PCB-177	37.0	-		
PCB-128	53.2	-	C	162	PCB-178	20.5	-		
PCB-129	20.5	-			PCB-179	39.2	-		
PCB-130	32.7	-			PCB-180	120	-		
PCB-131	18.6	-	C,J	133	PCB-181	ND	3.88		
PCB-132	139	-	C	161	PCB-182	77.7	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	40.0	-		
PCB-134	33.6	-	C	143	PCB-184	5390	-		
PCB-135	77.8	-			PCB-185	ND	4.36		
PCB-136	90.5	-			PCB-186	ND	3.09		
PCB-137	23.6	-			PCB-187	-	-	C182	182
PCB-138	356	-	C	163/164	PCB-188	10.5	-	J	
PCB-139	390	-	C	149	PCB-189	ND	2.40		
PCB-140	ND	5.16			PCB-190	8.28	-	J	
PCB-141	71.2	-			PCB-191	ND	3.09		
PCB-142	12400	-			PCB-192	3820	-		
PCB-143	-	-	C134	134	PCB-193	ND	3.06		
PCB-144	20.9	-			PCB-194	15.1	-	J	
PCB-145	ND	2.63			PCB-195	7.49	-	J	
PCB-146	116	-	C	165	PCB-196	20.9	-	C	203
PCB-147	15.0	-	J		PCB-197	59.9	-		
PCB-148	ND	3.73			PCB-198	ND	3.47		
PCB-149	-	-	C139	139	PCB-199	20.5	-		
PCB-150	ND	2.28			PCB-200	ND	2.52		

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EPA Method 1668
PCBs

FAL ID: 12511-002-SA
Client ID: LDW-Y2-IN-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.60		
PCB-202	ND	2.50		
PCB-203	-	-	C196	196
PCB-204	9100	-		
PCB-205	ND	2.99		
PCB-206	ND	4.82		
PCB-207	38.9	-		
PCB-208	ND	3.73		
PCB-209	47.4	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	82.0	5.00 - 145	
13C-PCB-3	84.1	5.00 - 145	
13C-PCB-4	87.0	5.00 - 145	
13C-PCB-15	81.3	5.00 - 145	
13C-PCB-19	94.8	5.00 - 145	
13C-PCB-37	88.5	5.00 - 145	
13C-PCB-54	89.0	5.00 - 145	
13C-PCB-77	103	10.0 - 145	
13C-PCB-81	106	10.0 - 145	
13C-PCB-104	97.2	10.0 - 145	
13C-PCB-105	86.6	10.0 - 145	
13C-PCB-114	93.0	10.0 - 145	
13C-PCB-118	90.2	10.0 - 145	
13C-PCB-123	94.6	10.0 - 145	
13C-PCB-126	89.0	10.0 - 145	
13C-PCB-155	94.8	10.0 - 145	
13C-PCB-156	82.0	10.0 - 145	
13C-PCB-157	85.2	10.0 - 145	
13C-PCB-167	87.2	10.0 - 145	
13C-PCB-169	79.4	10.0 - 145	
13C-PCB-188	91.6	10.0 - 145	
13C-PCB-189	91.4	10.0 - 145	
13C-PCB-202	92.2	10.0 - 145	
13C-PCB-205	92.5	10.0 - 145	
13C-PCB-206	87.6	10.0 - 145	
13C-PCB-208	87.5	10.0 - 145	
13C-PCB-209	84.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	95.5	5.00 - 145	
13C-PCB-111	104	10.0 - 145	
13C-PCB-178	100	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: 8/7/2019

Reviewed By: DPV

Date: 8/7/2019

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EPA Method 1668
PCBs

FAL ID: 12511-005-SA
Client ID: LDW-Y2-IN-ENR-CA-S010
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019
Total Conc: 44900

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.27			PCB-51	17.6	-	J	
PCB-2	ND	2.55			PCB-52	674	-	C	69
PCB-3	ND	2.94			PCB-53	67.6	-		
PCB-4	39.8	-			PCB-54	ND	2.69		
PCB-5	ND	7.19			PCB-55	39.8	-		
PCB-6	26.0	-			PCB-56	75.5	-	C	60
PCB-7	ND	7.12			PCB-57	6.16	-	J	
PCB-8	52.6	-			PCB-58	ND	3.09		
PCB-9	ND	7.41			PCB-59	-	-	C042	42
PCB-10	ND	8.11			PCB-60	-	-	C056	56
PCB-11	32.0	-			PCB-61	223	-	C	70
PCB-12	ND	7.82			PCB-62	ND	2.93		
PCB-13	ND	7.97			PCB-63	9.99	-	J	
PCB-14	146	-			PCB-64	-	-	C041	41/71/72
PCB-15	29.3	-			PCB-65	ND	3.20		
PCB-16	34.9	-			PCB-66	211	-	C	76
PCB-17	73.6	-			PCB-67	9.82	-	J	
PCB-18	154	-			PCB-68	12.2	-	J	
PCB-19	25.7	-			PCB-69	-	-	C052	52
PCB-20	76.0	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	43.8	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	8.25			PCB-73	16.0	-	J	
PCB-24	12.3	-	J		PCB-74	89.4	-		
PCB-25	35.1	-			PCB-75	-	-	C048	48
PCB-26	72.2	-			PCB-76	-	-	C066	66
PCB-27	13.8	-	J		PCB-77	14.5	-	J	
PCB-28	169	-			PCB-78	1630	-		
PCB-29	ND	7.90			PCB-79	9.19	-	J	
PCB-30	ND	2.83			PCB-80	ND	2.62		
PCB-31	140	-			PCB-81	23.6	-		
PCB-32	41.0	-			PCB-82	56.0	-		
PCB-33	-	-	C020	20/21	PCB-83	34.0	-	C	112
PCB-34	ND	8.13			PCB-84	319	-	C	92
PCB-35	ND	9.58			PCB-85	91.0	-	C	116
PCB-36	363	-			PCB-86	ND	8.99		
PCB-37	27.3	-			PCB-87	210	-	C	117/125
PCB-38	ND	8.88			PCB-88	ND	2.02	C	91
PCB-39	ND	8.76			PCB-89	ND	7.32		
PCB-40	46.4	-			PCB-90	554	-	C	101
PCB-41	222	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	105	-	C	59	PCB-92	-	-	C084	84
PCB-43	381	-	C	49	PCB-93	ND	2.22		
PCB-44	320	-			PCB-94	ND	2.25		
PCB-45	51.0	-			PCB-95	746	-		
PCB-46	19.0	-	J		PCB-96	6.56	-	J	
PCB-47	125	-			PCB-97	187	-		
PCB-48	54.6	-	C	75	PCB-98	ND	2.16	C	102
PCB-49	-	-	C043	43	PCB-99	241	-		
PCB-50	7.82	-	J		PCB-100	12.2	-	J	

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EPA Method 1668
PCBs

FAL ID: 12511-005-SA
Client ID: LDW-Y2-IN-ENR-CA-S010
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	139	-		
PCB-102	-	-	C098	98	PCB-152	ND	2.40		
PCB-103	13.5	-	J		PCB-153	511	-		
PCB-104	1470	-			PCB-154	27.3	-		
PCB-105	121	-			PCB-155	2830	-		
PCB-106	375	-	C	118	PCB-156	32.2	-		
PCB-107	31.9	-	C	108	PCB-157	10.8	-	J	
PCB-108	-	-	C107	107	PCB-158	45.2	-	C	160
PCB-109	ND	6.02			PCB-159	9.50	-	J	
PCB-110	660	-			PCB-160	-	-	C158	158
PCB-111	12.1	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.86			PCB-163	-	-	C138	138/164
PCB-114	10.3	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.20		
PCB-117	-	-	C087	87/125	PCB-167	16.6	-	J	
PCB-118	-	-	C	106	PCB-168	ND	3.19		
PCB-119	18.8	-	J		PCB-169	ND	3.12		
PCB-120	ND	5.68			PCB-170	46.6	-		
PCB-121	2880	-			PCB-171	19.1	-	J	
PCB-122	6.80	-	J		PCB-172	96.4	-		
PCB-123	10.4	-	J		PCB-173	ND	3.76		
PCB-124	24.7	-			PCB-174	63.8	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.34		
PCB-126	ND	4.35			PCB-176	12.3	-	J	
PCB-127	ND	3.87			PCB-177	48.1	-		
PCB-128	67.0	-	C	162	PCB-178	24.3	-		
PCB-129	25.1	-			PCB-179	47.7	-		
PCB-130	44.0	-			PCB-180	146	-		
PCB-131	19.7	-	C,J	133	PCB-181	ND	3.19		
PCB-132	154	-	C	161	PCB-182	89.5	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	48.2	-		
PCB-134	41.2	-	C	143	PCB-184	3790	-		
PCB-135	97.9	-			PCB-185	ND	3.58		
PCB-136	105	-			PCB-186	ND	2.54		
PCB-137	26.9	-			PCB-187	-	-	C182	182
PCB-138	460	-	C	163/164	PCB-188	9.90	-	J	
PCB-139	470	-	C	149	PCB-189	ND	2.08		
PCB-140	6.94	-	J		PCB-190	12.6	-	J	
PCB-141	85.2	-			PCB-191	ND	2.54		
PCB-142	10000	-			PCB-192	3020	-		
PCB-143	-	-	C134	134	PCB-193	10.2	-	J	
PCB-144	25.4	-			PCB-194	15.7	-	J	
PCB-145	ND	2.50			PCB-195	6.92	-	J	
PCB-146	118	-	C	165	PCB-196	23.2	-	C	203
PCB-147	16.8	-	J		PCB-197	50.5	-		
PCB-148	ND	3.56			PCB-198	ND	4.17		
PCB-149	-	-	C139	139	PCB-199	23.3	-		
PCB-150	ND	2.17			PCB-200	ND	3.03		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12511-005-SA
Client ID: LDW-Y2-IN-ENR-CA-S010
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.12		
PCB-202	ND	3.00		
PCB-203	-	-	C196	196
PCB-204	7660	-		
PCB-205	ND	1.98		
PCB-206	5.99	-	J	
PCB-207	33.1	-		
PCB-208	ND	1.90		
PCB-209	38.1	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	84.3	5.00 - 145	
13C-PCB-3	83.0	5.00 - 145	
13C-PCB-4	85.8	5.00 - 145	
13C-PCB-15	83.5	5.00 - 145	
13C-PCB-19	96.8	5.00 - 145	
13C-PCB-37	91.2	5.00 - 145	
13C-PCB-54	88.1	5.00 - 145	
13C-PCB-77	106	10.0 - 145	
13C-PCB-81	107	10.0 - 145	
13C-PCB-104	98.2	10.0 - 145	
13C-PCB-105	90.0	10.0 - 145	
13C-PCB-114	93.6	10.0 - 145	
13C-PCB-118	92.2	10.0 - 145	
13C-PCB-123	96.0	10.0 - 145	
13C-PCB-126	92.1	10.0 - 145	
13C-PCB-155	101	10.0 - 145	
13C-PCB-156	84.8	10.0 - 145	
13C-PCB-157	86.8	10.0 - 145	
13C-PCB-167	89.9	10.0 - 145	
13C-PCB-169	85.6	10.0 - 145	
13C-PCB-188	95.4	10.0 - 145	
13C-PCB-189	92.6	10.0 - 145	
13C-PCB-202	88.3	10.0 - 145	
13C-PCB-205	92.8	10.0 - 145	
13C-PCB-206	78.9	10.0 - 145	
13C-PCB-208	84.2	10.0 - 145	
13C-PCB-209	81.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	94.8	5.00 - 145	
13C-PCB-111	107	10.0 - 145	
13C-PCB-178	106	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: 8/7/2019

Reviewed By: DPV

Date: 8/7/2019

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EPA Method 1668
PCBs

FAL ID: 12511-006-SA
Client ID: LDW-Y2-IN-ENR-CB-S010
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019
Total Conc: 51500

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	6.74	-	J		PCB-51	14.6	-	J	
PCB-2	ND	2.21			PCB-52	616	-	C	69
PCB-3	8.36	-	J		PCB-53	64.3	-		
PCB-4	57.5	-			PCB-54	ND	2.11		
PCB-5	ND	7.14			PCB-55	45.6	-		
PCB-6	81.9	-			PCB-56	61.6	-	C	60
PCB-7	ND	7.08			PCB-57	5.21	-	J	
PCB-8	93.1	-			PCB-58	4.32	-	J	
PCB-9	ND	7.36			PCB-59	-	-	C042	42
PCB-10	ND	8.06			PCB-60	-	-	C056	56
PCB-11	26.6	-			PCB-61	191	-	C	70
PCB-12	ND	7.78			PCB-62	ND	2.29		
PCB-13	19.9	-	J		PCB-63	9.43	-	J	
PCB-14	274	-			PCB-64	-	-	C041	41/71/72
PCB-15	46.7	-			PCB-65	ND	2.50		
PCB-16	39.6	-			PCB-66	176	-	C	76
PCB-17	80.9	-			PCB-67	7.41	-	J	
PCB-18	199	-			PCB-68	11.3	-	J	
PCB-19	28.4	-			PCB-69	-	-	C052	52
PCB-20	69.3	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	41.1	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	7.28			PCB-73	22.1	-		
PCB-24	17.3	-	J		PCB-74	73.1	-		
PCB-25	48.2	-			PCB-75	-	-	C048	48
PCB-26	100	-			PCB-76	-	-	C066	66
PCB-27	13.2	-	J		PCB-77	11.0	-	J	
PCB-28	174	-			PCB-78	2110	-		
PCB-29	ND	6.98			PCB-79	6.98	-	J	
PCB-30	ND	2.19			PCB-80	ND	2.05		
PCB-31	160	-			PCB-81	25.4	-		
PCB-32	54.4	-			PCB-82	48.5	-		
PCB-33	-	-	C020	20/21	PCB-83	29.3	-	C	112
PCB-34	ND	7.18			PCB-84	280	-	C	92
PCB-35	ND	8.46			PCB-85	71.8	-	C	116
PCB-36	599	-			PCB-86	ND	6.59		
PCB-37	26.8	-			PCB-87	174	-	C	117/125
PCB-38	ND	7.84			PCB-88	ND	1.65	C	91
PCB-39	ND	7.73			PCB-89	ND	5.36		
PCB-40	36.7	-			PCB-90	459	-	C	101
PCB-41	199	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	96.5	-	C	59	PCB-92	-	-	C084	84
PCB-43	342	-	C	49	PCB-93	ND	1.82		
PCB-44	302	-			PCB-94	ND	1.84		
PCB-45	46.9	-			PCB-95	637	-		
PCB-46	15.9	-	J		PCB-96	6.37	-	J	
PCB-47	110	-			PCB-97	7.90	-	J	
PCB-48	49.7	-	C	75	PCB-98	ND	1.77	C	102
PCB-49	-	-	C043	43	PCB-99	195	-		
PCB-50	7.45	-	J		PCB-100	12.9	-	J	

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EPA Method 1668
PCBs

FAL ID: 12511-006-SA
Client ID: LDW-Y2-IN-ENR-CB-S010
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	113	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.74		
PCB-103	12.6	-	J		PCB-153	426	-		
PCB-104	1890	-			PCB-154	22.5	-		
PCB-105	101	-			PCB-155	3490	-		
PCB-106	312	-	C	118	PCB-156	25.9	-		
PCB-107	29.4	-	C	108	PCB-157	10.0	-	J	
PCB-108	-	-	C107	107	PCB-158	43.1	-	C	160
PCB-109	ND	4.41			PCB-159	8.86	-	J	
PCB-110	553	-			PCB-160	-	-	C158	158
PCB-111	7.97	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.29			PCB-163	-	-	C138	138/164
PCB-114	8.18	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.06		
PCB-117	-	-	C087	87/125	PCB-167	14.7	-	J	
PCB-118	-	-	C	106	PCB-168	ND	3.05		
PCB-119	17.1	-	J		PCB-169	ND	2.78		
PCB-120	ND	4.16			PCB-170	33.4	-		
PCB-121	3630	-			PCB-171	12.4	-	J	
PCB-122	5.02	-	J		PCB-172	130	-		
PCB-123	8.04	-	J		PCB-173	ND	3.26		
PCB-124	18.3	-	J		PCB-174	46.6	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	2.89		
PCB-126	ND	3.64			PCB-176	9.80	-	J	
PCB-127	ND	3.05			PCB-177	36.0	-		
PCB-128	63.6	-	C	162	PCB-178	17.6	-	J	
PCB-129	23.6	-			PCB-179	31.9	-		
PCB-130	37.2	-			PCB-180	109	-		
PCB-131	16.3	-	C,J	133	PCB-181	ND	2.76		
PCB-132	120	-	C	161	PCB-182	75.2	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	32.1	-		
PCB-134	34.6	-	C	143	PCB-184	4860	-		
PCB-135	73.7	-			PCB-185	7.97	-	J	
PCB-136	85.3	-			PCB-186	ND	2.20		
PCB-137	20.8	-			PCB-187	-	-	C182	182
PCB-138	393	-	C	163/164	PCB-188	ND	2.52		
PCB-139	388	-	C	149	PCB-189	ND	1.70		
PCB-140	ND	3.85			PCB-190	9.80	-	J	
PCB-141	65.1	-			PCB-191	ND	2.20		
PCB-142	12000	-			PCB-192	3730	-		
PCB-143	-	-	C134	134	PCB-193	12.9	-	J	
PCB-144	22.4	-			PCB-194	15.5	-	J	
PCB-145	ND	1.82			PCB-195	5.75	-	J	
PCB-146	94.1	-	C	165	PCB-196	19.8	-	C,J	203
PCB-147	13.2	-	J		PCB-197	51.7	-		
PCB-148	ND	2.59			PCB-198	ND	3.02		
PCB-149	-	-	C139	139	PCB-199	14.1	-	J	
PCB-150	ND	1.58			PCB-200	ND	2.19		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12511-006-SA
Client ID: LDW-Y2-IN-ENR-CB-S010
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.26		
PCB-202	ND	2.17		
PCB-203	-	-	C196,J	196
PCB-204	9100	-		
PCB-205	ND	1.95		
PCB-206	ND	3.97		
PCB-207	35.9	-		
PCB-208	ND	2.76		
PCB-209	44.4	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	85.7	5.00 - 145	
13C-PCB-3	85.1	5.00 - 145	
13C-PCB-4	90.9	5.00 - 145	
13C-PCB-15	84.1	5.00 - 145	
13C-PCB-19	98.1	5.00 - 145	
13C-PCB-37	91.6	5.00 - 145	
13C-PCB-54	93.9	5.00 - 145	
13C-PCB-77	107	10.0 - 145	
13C-PCB-81	107	10.0 - 145	
13C-PCB-104	101	10.0 - 145	
13C-PCB-105	91.2	10.0 - 145	
13C-PCB-114	96.0	10.0 - 145	
13C-PCB-118	94.0	10.0 - 145	
13C-PCB-123	101	10.0 - 145	
13C-PCB-126	92.0	10.0 - 145	
13C-PCB-155	97.2	10.0 - 145	
13C-PCB-156	82.7	10.0 - 145	
13C-PCB-157	87.7	10.0 - 145	
13C-PCB-167	89.9	10.0 - 145	
13C-PCB-169	86.0	10.0 - 145	
13C-PCB-188	95.1	10.0 - 145	
13C-PCB-189	93.9	10.0 - 145	
13C-PCB-202	91.2	10.0 - 145	
13C-PCB-205	91.4	10.0 - 145	
13C-PCB-206	85.6	10.0 - 145	
13C-PCB-208	90.3	10.0 - 145	
13C-PCB-209	83.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	96.2	5.00 - 145	
13C-PCB-111	106	10.0 - 145	
13C-PCB-178	104	10.0 - 145	

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

Analyst: [signature]

Date: 8/7/2019

Reviewed By: DPV

Date: 8/7/2019

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EPA Method 1668
PCBs

FAL ID: 12511-009-SA
Client ID: LDW-Y2-IN-ENR-CE-S010
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
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: 42100

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.70			PCB-51	14.6	-	J	
PCB-2	ND	3.03			PCB-52	913	-	C	69
PCB-3	ND	3.20			PCB-53	62.8	-		
PCB-4	23.6	-			PCB-54	ND	4.41		
PCB-5	ND	7.58			PCB-55	42.6	-		
PCB-6	18.1	-			PCB-56	101	-	C	60
PCB-7	ND	7.47			PCB-57	ND	5.28		
PCB-8	36.1	-			PCB-58	ND	4.88		
PCB-9	ND	7.46			PCB-59	-	-	C042	42
PCB-10	18.7	-			PCB-60	-	-	C056	56
PCB-11	25.0	-			PCB-61	310	-	C	70
PCB-12	ND	8.17			PCB-62	ND	5.05		
PCB-13	ND	8.23			PCB-63	13.5	-	J	
PCB-14	141	-			PCB-64	-	-	C041	41/71/72
PCB-15	24.0	-			PCB-65	ND	5.38		
PCB-16	47.8	-			PCB-66	258	-	C	76
PCB-17	58.4	-			PCB-67	13.2	-	J	
PCB-18	144	-			PCB-68	13.0	-	J	
PCB-19	20.5	-			PCB-69	-	-	C052	52
PCB-20	61.2	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	39.9	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	6.79			PCB-73	ND	4.71		
PCB-24	7.59	-	J		PCB-74	127	-		
PCB-25	32.8	-			PCB-75	-	-	C048	48
PCB-26	68.4	-			PCB-76	-	-	C066	66
PCB-27	13.2	-	J		PCB-77	18.3	-	J	
PCB-28	133	-			PCB-78	1320	-		
PCB-29	ND	6.75			PCB-79	9.56	-	J	
PCB-30	ND	4.01			PCB-80	ND	4.50		
PCB-31	120	-			PCB-81	31.6	-		
PCB-32	27.8	-			PCB-82	80.0	-		
PCB-33	-	-	C020	20/21	PCB-83	43.8	-	C	112
PCB-34	ND	6.82			PCB-84	473	-	C	92
PCB-35	ND	7.86			PCB-85	108	-	C	116
PCB-36	328	-			PCB-86	ND	7.36		
PCB-37	27.3	-			PCB-87	308	-	C	117/125
PCB-38	ND	6.93			PCB-88	ND	3.42	C	91
PCB-39	ND	7.11			PCB-89	12.2	-	J	
PCB-40	50.2	-			PCB-90	891	-	C	101
PCB-41	252	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	100	-	C	59	PCB-92	-	-	C084	84
PCB-43	408	-	C	49	PCB-93	ND	3.54		
PCB-44	423	-			PCB-94	8.14	-	J	
PCB-45	44.9	-			PCB-95	957	-		
PCB-46	21.4	-			PCB-96	9.71	-	J	
PCB-47	114	-			PCB-97	247	-		
PCB-48	56.7	-	C	75	PCB-98	ND	3.82	C	102
PCB-49	-	-	C043	43	PCB-99	359	-		
PCB-50	ND	5.80			PCB-100	11.2	-	J	

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EPA Method 1668
PCBs

FAL ID: 12511-009-SA
Client ID: LDW-Y2-IN-ENR-CE-S010
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
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	137	-		
PCB-102	-	-	C098	98	PCB-152	ND	3.40		
PCB-103	14.5	-	J		PCB-153	447	-		
PCB-104	1440	-			PCB-154	19.0	-	J	
PCB-105	148	-			PCB-155	2600	-		
PCB-106	433	-	C	118	PCB-156	35.9	-		
PCB-107	41.8	-	C	108	PCB-157	12.5	-	J	
PCB-108	-	-	C107	107	PCB-158	51.1	-	C	160
PCB-109	ND	5.62			PCB-159	ND	4.56		
PCB-110	833	-			PCB-160	-	-	C158	158
PCB-111	14.6	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.38			PCB-163	-	-	C138	138/164
PCB-114	14.5	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.95		
PCB-117	-	-	C087	87/125	PCB-167	18.5	-	J	
PCB-118	-	-	C	106	PCB-168	ND	4.74		
PCB-119	24.3	-			PCB-169	ND	5.49		
PCB-120	ND	5.49			PCB-170	52.0	-		
PCB-121	2900	-			PCB-171	22.9	-		
PCB-122	ND	3.74			PCB-172	98.5	-		
PCB-123	12.8	-	J		PCB-173	ND	4.77		
PCB-124	23.7	-			PCB-174	64.4	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.28		
PCB-126	6.08	-	J		PCB-176	13.0	-	J	
PCB-127	ND	3.86			PCB-177	42.8	-		
PCB-128	71.3	-	C	162	PCB-178	20.2	-		
PCB-129	30.5	-			PCB-179	37.3	-		
PCB-130	37.4	-			PCB-180	128	-		
PCB-131	20.4	-	C	133	PCB-181	ND	4.29		
PCB-132	139	-	C	161	PCB-182	81.4	-	C	187
PCB-133	-	-	C131	131	PCB-183	43.2	-		
PCB-134	42.8	-	C	143	PCB-184	3480	-		
PCB-135	29.3	-			PCB-185	ND	4.24		
PCB-136	94.1	-			PCB-186	ND	2.89		
PCB-137	32.3	-			PCB-187	-	-	C182	182
PCB-138	434	-	C	163/164	PCB-188	ND	3.00		
PCB-139	409	-	C	149	PCB-189	ND	3.00		
PCB-140	ND	5.79			PCB-190	13.8	-	J	
PCB-141	85.8	-			PCB-191	ND	3.31		
PCB-142	8100	-			PCB-192	2730	-		
PCB-143	-	-	C134	134	PCB-193	11.0	-	J	
PCB-144	27.9	-			PCB-194	17.1	-	J	
PCB-145	ND	3.60			PCB-195	8.04	-	J	
PCB-146	91.5	-	C	165	PCB-196	20.8	-	C	203
PCB-147	14.9	-	J		PCB-197	33.1	-		
PCB-148	ND	5.41			PCB-198	ND	4.81		
PCB-149	-	-	C139	139	PCB-199	21.0	-		
PCB-150	ND	3.34			PCB-200	ND	3.44		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12511-009-SA
Client ID: LDW-Y2-IN-ENR-CE-S010
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
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	3.55		
PCB-202	ND	3.67		
PCB-203	-	-	C196	196
PCB-204	6610	-		
PCB-205	ND	3.82		
PCB-206	ND	6.49		
PCB-207	28.8	-		
PCB-208	ND	5.32		
PCB-209	34.8	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	82.3	5.00 - 145	
13C-PCB-3	84.6	5.00 - 145	
13C-PCB-4	82.4	5.00 - 145	
13C-PCB-15	87.5	5.00 - 145	
13C-PCB-19	86.7	5.00 - 145	
13C-PCB-37	90.4	5.00 - 145	
13C-PCB-54	82.9	5.00 - 145	
13C-PCB-77	84.7	10.0 - 145	
13C-PCB-81	86.8	10.0 - 145	
13C-PCB-104	87.2	10.0 - 145	
13C-PCB-105	92.9	10.0 - 145	
13C-PCB-114	99.2	10.0 - 145	
13C-PCB-118	97.2	10.0 - 145	
13C-PCB-123	97.2	10.0 - 145	
13C-PCB-126	94.9	10.0 - 145	
13C-PCB-155	82.6	10.0 - 145	
13C-PCB-156	91.5	10.0 - 145	
13C-PCB-157	90.4	10.0 - 145	
13C-PCB-167	94.0	10.0 - 145	
13C-PCB-169	91.3	10.0 - 145	
13C-PCB-188	88.9	10.0 - 145	
13C-PCB-189	89.3	10.0 - 145	
13C-PCB-202	84.3	10.0 - 145	
13C-PCB-205	90.4	10.0 - 145	
13C-PCB-206	86.9	10.0 - 145	
13C-PCB-208	86.3	10.0 - 145	
13C-PCB-209	87.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	91.4	5.00 - 145	
13C-PCB-111	85.4	10.0 - 145	
13C-PCB-178	90.4	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: 8/7/2019

Reviewed By: DPV

Date: 8/7/2019

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EPA Method 1668
PCBs

FAL ID: 12511-010-SA
Client ID: LDW-Y2-IN-ENR+AC-CA-SSWI
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
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: 50500

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	3.72			PCB-51	18.6	-	J	
PCB-2	ND	4.08			PCB-52	675	-	C	69
PCB-3	ND	4.22			PCB-53	65.3	-		
PCB-4	33.6	-			PCB-54	ND	1.82		
PCB-5	ND	4.92			PCB-55	45.2	-		
PCB-6	20.9	-			PCB-56	107	-	C	60
PCB-7	ND	4.84			PCB-57	5.32	-	J	
PCB-8	59.5	-			PCB-58	ND	2.01		
PCB-9	ND	4.84			PCB-59	-	-	C042	42
PCB-10	ND	5.08			PCB-60	-	-	C056	56
PCB-11	50.1	-			PCB-61	308	-	C	70
PCB-12	ND	5.30			PCB-62	ND	2.08		
PCB-13	ND	5.34			PCB-63	11.6	-	J	
PCB-14	216	-			PCB-64	-	-	C041	41/71/72
PCB-15	30.5	-			PCB-65	ND	2.22		
PCB-16	46.5	-			PCB-66	248	-	C	76
PCB-17	86.6	-			PCB-67	13.9	-	J	
PCB-18	210	-			PCB-68	14.0	-	J	
PCB-19	25.1	-			PCB-69	-	-	C052	52
PCB-20	86.2	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	52.2	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	6.68			PCB-73	16.2	-	J	
PCB-24	15.0	-	J		PCB-74	124	-		
PCB-25	33.7	-			PCB-75	-	-	C048	48
PCB-26	70.5	-			PCB-76	-	-	C066	66
PCB-27	13.3	-	J		PCB-77	21.0	-		
PCB-28	163	-			PCB-78	1790	-		
PCB-29	ND	6.64			PCB-79	10.3	-	J	
PCB-30	ND	1.87			PCB-80	ND	1.86		
PCB-31	183	-			PCB-81	30.1	-		
PCB-32	52.3	-			PCB-82	61.5	-		
PCB-33	-	-	C020	20/21	PCB-83	33.0	-	C	112
PCB-34	ND	6.71			PCB-84	346	-	C	92
PCB-35	ND	7.73			PCB-85	88.9	-	C	116
PCB-36	449	-			PCB-86	ND	5.50		
PCB-37	31.9	-			PCB-87	222	-	C	117/125
PCB-38	ND	6.81			PCB-88	ND	1.45	C	91
PCB-39	ND	6.99			PCB-89	9.39	-	J	
PCB-40	48.2	-			PCB-90	666	-	C	101
PCB-41	247	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	108	-	C	59	PCB-92	-	-	C084	84
PCB-43	391	-	C	49	PCB-93	ND	1.49		
PCB-44	337	-			PCB-94	5.98	-	J	
PCB-45	51.9	-			PCB-95	719	-		
PCB-46	20.2	-			PCB-96	5.67	-	J	
PCB-47	122	-			PCB-97	179	-		
PCB-48	67.0	-	C	75	PCB-98	ND	1.61	C	102
PCB-49	-	-	C043	43	PCB-99	300	-		
PCB-50	6.49	-	J		PCB-100	11.6	-	J	

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EPA Method 1668
PCBs

FAL ID: 12511-010-SA
Client ID: LDW-Y2-IN-ENR+AC-CA-SSWI
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
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	139	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.46		
PCB-103	12.4	-	J		PCB-153	449	-		
PCB-104	1710	-			PCB-154	20.6	-		
PCB-105	120	-			PCB-155	3250	-		
PCB-106	374	-	C	118	PCB-156	30.6	-		
PCB-107	31.6	-	C	108	PCB-157	11.5	-	J	
PCB-108	-	-	C107	107	PCB-158	48.0	-	C	160
PCB-109	ND	4.20			PCB-159	7.52	-	J	
PCB-110	654	-			PCB-160	-	-	C158	158
PCB-111	13.0	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.02			PCB-163	-	-	C138	138/164
PCB-114	9.85	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.00		
PCB-117	-	-	C087	87/125	PCB-167	14.3	-	J	
PCB-118	-	-	C	106	PCB-168	ND	2.87		
PCB-119	18.4	-	J		PCB-169	ND	3.18		
PCB-120	ND	4.10			PCB-170	47.8	-		
PCB-121	3580	-			PCB-171	18.5	-	J	
PCB-122	5.40	-	J		PCB-172	125	-		
PCB-123	9.31	-	J		PCB-173	ND	3.40		
PCB-124	18.5	-	J		PCB-174	62.6	-		
PCB-125	-	-	C087	87/117	PCB-175	6.05	-	J	
PCB-126	ND	3.51			PCB-176	11.5	-	J	
PCB-127	ND	2.88			PCB-177	40.1	-		
PCB-128	70.1	-	C	162	PCB-178	19.1	-	J	
PCB-129	11.5	-	J		PCB-179	39.4	-		
PCB-130	33.8	-			PCB-180	140	-		
PCB-131	12.7	-	C,J	133	PCB-181	7.70	-	J	
PCB-132	138	-	C	161	PCB-182	87.8	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	45.7	-		
PCB-134	36.4	-	C	143	PCB-184	4560	-		
PCB-135	82.9	-			PCB-185	11.0	-	J	
PCB-136	84.0	-			PCB-186	6.04	-	J	
PCB-137	27.7	-			PCB-187	-	-	C182	182
PCB-138	404	-	C	163/164	PCB-188	5.25	-	J	
PCB-139	385	-	C	149	PCB-189	ND	1.80		
PCB-140	8.39	-	J		PCB-190	12.6	-	J	
PCB-141	77.6	-			PCB-191	ND	2.36		
PCB-142	10700	-			PCB-192	3600	-		
PCB-143	-	-	C134	134	PCB-193	11.5	-	J	
PCB-144	21.0	-			PCB-194	14.8	-	J	
PCB-145	ND	1.54			PCB-195	7.21	-	J	
PCB-146	94.8	-	C	165	PCB-196	24.2	-	C	203
PCB-147	18.8	-	J		PCB-197	56.5	-		
PCB-148	ND	2.32			PCB-198	ND	2.60		
PCB-149	-	-	C139	139	PCB-199	28.3	-		
PCB-150	ND	1.43			PCB-200	ND	1.86		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12511-010-SA
Client ID: LDW-Y2-IN-ENR+AC-CA-SSWI
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
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	1.92		
PCB-202	8.37	-	J	
PCB-203	-	-	C196	196
PCB-204	9180	-		
PCB-205	ND	2.16		
PCB-206	6.70	-	J	
PCB-207	35.1	-		
PCB-208	ND	2.34		
PCB-209	38.5	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	84.3	5.00 - 145	
13C-PCB-3	89.3	5.00 - 145	
13C-PCB-4	82.4	5.00 - 145	
13C-PCB-15	93.8	5.00 - 145	
13C-PCB-19	86.4	5.00 - 145	
13C-PCB-37	92.5	5.00 - 145	
13C-PCB-54	77.4	5.00 - 145	
13C-PCB-77	87.8	10.0 - 145	
13C-PCB-81	91.9	10.0 - 145	
13C-PCB-104	83.1	10.0 - 145	
13C-PCB-105	96.3	10.0 - 145	
13C-PCB-114	104	10.0 - 145	
13C-PCB-118	98.6	10.0 - 145	
13C-PCB-123	104	10.0 - 145	
13C-PCB-126	93.0	10.0 - 145	
13C-PCB-155	82.5	10.0 - 145	
13C-PCB-156	95.7	10.0 - 145	
13C-PCB-157	92.2	10.0 - 145	
13C-PCB-167	94.0	10.0 - 145	
13C-PCB-169	91.9	10.0 - 145	
13C-PCB-188	91.5	10.0 - 145	
13C-PCB-189	96.9	10.0 - 145	
13C-PCB-202	89.4	10.0 - 145	
13C-PCB-205	92.8	10.0 - 145	
13C-PCB-206	88.5	10.0 - 145	
13C-PCB-208	94.9	10.0 - 145	
13C-PCB-209	83.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	87.0	5.00 - 145	
13C-PCB-111	83.9	10.0 - 145	
13C-PCB-178	90.5	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: 8/7/2019

Reviewed By: DPV

Date: 8/7/2019

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EPA Method 1668
PCBs

FAL ID: 12511-011-SA
Client ID: LDW-Y2-IN-ENR+AC-CB-SSWI
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
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: 54500

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	3.70			PCB-51	19.3	-	J	
PCB-2	ND	4.08			PCB-52	681	-	C	69
PCB-3	ND	4.26			PCB-53	64.1	-		
PCB-4	38.2	-			PCB-54	ND	2.14		
PCB-5	ND	6.50			PCB-55	55.1	-		
PCB-6	24.2	-			PCB-56	96.7	-	C	60
PCB-7	ND	6.40			PCB-57	4.46	-	J	
PCB-8	63.5	-			PCB-58	3.24	-	J	
PCB-9	ND	6.39			PCB-59	-	-	C042	42
PCB-10	ND	6.71			PCB-60	-	-	C056	56
PCB-11	52.6	-			PCB-61	301	-	C	70
PCB-12	ND	7.00			PCB-62	ND	2.45		
PCB-13	ND	7.05			PCB-63	11.6	-	J	
PCB-14	433	-			PCB-64	-	-	C041	41/71/72
PCB-15	33.0	-			PCB-65	ND	2.62		
PCB-16	75.8	-			PCB-66	245	-	C	76
PCB-17	96.2	-			PCB-67	9.83	-	J	
PCB-18	233	-			PCB-68	14.0	-	J	
PCB-19	28.1	-			PCB-69	-	-	C052	52
PCB-20	85.9	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	50.0	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	8.53			PCB-73	20.4	-		
PCB-24	14.5	-	J		PCB-74	114	-		
PCB-25	39.8	-			PCB-75	-	-	C048	48
PCB-26	83.2	-			PCB-76	-	-	C066	66
PCB-27	15.2	-	J		PCB-77	20.3	-		
PCB-28	167	-			PCB-78	2160	-		
PCB-29	ND	8.48			PCB-79	7.15	-	J	
PCB-30	ND	2.35			PCB-80	ND	2.18		
PCB-31	181	-			PCB-81	14.2	-	J	
PCB-32	40.6	-			PCB-82	52.9	-		
PCB-33	-	-	C020	20/21	PCB-83	27.3	-	C	112
PCB-34	ND	8.57			PCB-84	292	-	C	92
PCB-35	ND	9.87			PCB-85	77.0	-	C	116
PCB-36	660	-			PCB-86	ND	4.81		
PCB-37	30.8	-			PCB-87	189	-	C	117/125
PCB-38	ND	8.70			PCB-88	ND	1.52	C	91
PCB-39	ND	8.93			PCB-89	6.37	-	J	
PCB-40	47.1	-			PCB-90	533	-	C	101
PCB-41	241	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	104	-	C	59	PCB-92	-	-	C084	84
PCB-43	393	-	C	49	PCB-93	ND	1.57		
PCB-44	348	-			PCB-94	4.47	-	J	
PCB-45	52.0	-			PCB-95	661	-		
PCB-46	17.3	-	J		PCB-96	6.32	-	J	
PCB-47	122	-			PCB-97	167	-		
PCB-48	60.8	-	C	75	PCB-98	ND	1.70	C	102
PCB-49	-	-	C043	43	PCB-99	241	-		
PCB-50	7.58	-	J		PCB-100	10.7	-	J	

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EPA Method 1668
PCBs

FAL ID: 12511-011-SA
Client ID: LDW-Y2-IN-ENR+AC-CB-SSWI
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
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	92.4	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.80		
PCB-103	11.2	-	J		PCB-153	338	-		
PCB-104	2060	-			PCB-154	19.2	-	J	
PCB-105	101	-			PCB-155	3760	-		
PCB-106	313	-	C	118	PCB-156	24.1	-		
PCB-107	27.9	-	C	108	PCB-157	9.24	-	J	
PCB-108	-	-	C107	107	PCB-158	38.5	-	C	160
PCB-109	ND	3.67			PCB-159	8.14	-	J	
PCB-110	570	-			PCB-160	-	-	C158	158
PCB-111	10.9	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	3.52			PCB-163	-	-	C138	138/164
PCB-114	8.08	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	2.61		
PCB-117	-	-	C087	87/125	PCB-167	14.0	-	J	
PCB-118	-	-	C	106	PCB-168	ND	2.50		
PCB-119	15.7	-	J		PCB-169	ND	2.53		
PCB-120	ND	3.59			PCB-170	39.9	-		
PCB-121	4210	-			PCB-171	15.2	-	J	
PCB-122	5.42	-	J		PCB-172	142	-		
PCB-123	8.44	-	J		PCB-173	ND	3.98		
PCB-124	13.7	-	J		PCB-174	46.3	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.57		
PCB-126	ND	2.98			PCB-176	8.37	-	J	
PCB-127	ND	2.58			PCB-177	32.8	-		
PCB-128	51.5	-	C	162	PCB-178	16.2	-	J	
PCB-129	18.9	-	J		PCB-179	30.7	-		
PCB-130	28.0	-			PCB-180	119	-		
PCB-131	13.4	-	C,J	133	PCB-181	7.11	-	J	
PCB-132	108	-	C	161	PCB-182	73.9	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	37.3	-		
PCB-134	29.6	-	C	143	PCB-184	5020	-		
PCB-135	58.0	-			PCB-185	8.86	-	J	
PCB-136	72.1	-			PCB-186	6.46	-	J	
PCB-137	22.1	-			PCB-187	-	-	C182	182
PCB-138	320	-	C	163/164	PCB-188	6.33	-	J	
PCB-139	311	-	C	149	PCB-189	ND	1.94		
PCB-140	5.80	-	J		PCB-190	10.8	-	J	
PCB-141	55.5	-			PCB-191	ND	2.76		
PCB-142	11200	-			PCB-192	4270	-		
PCB-143	-	-	C134	134	PCB-193	10.7	-	J	
PCB-144	20.4	-			PCB-194	12.8	-	J	
PCB-145	ND	1.91			PCB-195	5.31	-	J	
PCB-146	68.5	-	C	165	PCB-196	20.4	-	C	203
PCB-147	12.8	-	J		PCB-197	65.5	-		
PCB-148	ND	2.87			PCB-198	ND	2.10		
PCB-149	-	-	C139	139	PCB-199	20.8	-		
PCB-150	ND	1.78			PCB-200	ND	1.50		

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EPA Method 1668
PCBs

FAL ID: 12511-011-SA
Client ID: LDW-Y2-IN-ENR+AC-CB-SSWI
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
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	1.55		
PCB-202	5.28	-	J	
PCB-203	-	-	C196	196
PCB-204	10400	-		
PCB-205	ND	2.37		
PCB-206	4.66	-	J	
PCB-207	42.9	-		
PCB-208	4.13	-	J	
PCB-209	48.0	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	83.7	5.00 - 145	
13C-PCB-3	85.8	5.00 - 145	
13C-PCB-4	80.5	5.00 - 145	
13C-PCB-15	94.0	5.00 - 145	
13C-PCB-19	84.7	5.00 - 145	
13C-PCB-37	92.7	5.00 - 145	
13C-PCB-54	76.8	5.00 - 145	
13C-PCB-77	92.5	10.0 - 145	
13C-PCB-81	96.3	10.0 - 145	
13C-PCB-104	84.3	10.0 - 145	
13C-PCB-105	94.2	10.0 - 145	
13C-PCB-114	99.8	10.0 - 145	
13C-PCB-118	95.1	10.0 - 145	
13C-PCB-123	98.8	10.0 - 145	
13C-PCB-126	93.8	10.0 - 145	
13C-PCB-155	80.0	10.0 - 145	
13C-PCB-156	95.9	10.0 - 145	
13C-PCB-157	93.1	10.0 - 145	
13C-PCB-167	95.5	10.0 - 145	
13C-PCB-169	98.5	10.0 - 145	
13C-PCB-188	85.2	10.0 - 145	
13C-PCB-189	105	10.0 - 145	
13C-PCB-202	90.0	10.0 - 145	
13C-PCB-205	89.1	10.0 - 145	
13C-PCB-206	79.1	10.0 - 145	
13C-PCB-208	81.0	10.0 - 145	
13C-PCB-209	77.0	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	94.8	5.00 - 145	
13C-PCB-111	94.8	10.0 - 145	
13C-PCB-178	97.1	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: 8/7/2019

Reviewed By: DPV

Date: 8/7/2019

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EPA Method 1668
PCBs

FAL ID: 12511-012-SA
Client ID: LDW-Y2-IN-ENR+AC-CC-SSWI
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
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: 52000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	3.18			PCB-51	24.7	-		
PCB-2	ND	3.57			PCB-52	771	-	C	69
PCB-3	ND	3.77			PCB-53	73.1	-		
PCB-4	36.1	-			PCB-54	ND	2.37		
PCB-5	ND	7.64			PCB-55	46.3	-		
PCB-6	23.5	-			PCB-56	132	-	C	60
PCB-7	ND	7.52			PCB-57	ND	2.83		
PCB-8	73.0	-			PCB-58	ND	2.62		
PCB-9	ND	7.51			PCB-59	-	-	C042	42
PCB-10	ND	7.88			PCB-60	-	-	C056	56
PCB-11	45.0	-			PCB-61	342	-	C	70
PCB-12	ND	8.23			PCB-62	ND	2.71		
PCB-13	ND	8.29			PCB-63	14.4	-	J	
PCB-14	221	-			PCB-64	-	-	C041	41/71/72
PCB-15	35.2	-			PCB-65	ND	2.89		
PCB-16	70.0	-			PCB-66	280	-	C	76
PCB-17	113	-			PCB-67	13.8	-	J	
PCB-18	266	-			PCB-68	13.9	-	J	
PCB-19	32.5	-			PCB-69	-	-	C052	52
PCB-20	124	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	68.8	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	7.57			PCB-73	22.0	-		
PCB-24	17.2	-	J		PCB-74	133	-		
PCB-25	44.0	-			PCB-75	-	-	C048	48
PCB-26	81.6	-			PCB-76	-	-	C066	66
PCB-27	14.6	-	J		PCB-77	22.0	-		
PCB-28	202	-			PCB-78	1960	-		
PCB-29	ND	7.52			PCB-79	9.76	-	J	
PCB-30	ND	2.07			PCB-80	ND	2.41		
PCB-31	218	-			PCB-81	24.5	-		
PCB-32	66.2	-			PCB-82	60.5	-		
PCB-33	-	-	C020	20/21	PCB-83	37.8	-	C	112
PCB-34	ND	7.60			PCB-84	356	-	C	92
PCB-35	ND	8.76			PCB-85	93.0	-	C	116
PCB-36	504	-			PCB-86	ND	5.40		
PCB-37	37.4	-			PCB-87	230	-	C	117/125
PCB-38	ND	7.72			PCB-88	ND	1.41	C	91
PCB-39	ND	7.92			PCB-89	9.88	-	J	
PCB-40	55.9	-			PCB-90	673	-	C	101
PCB-41	282	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	133	-	C	59	PCB-92	-	-	C084	84
PCB-43	449	-	C	49	PCB-93	ND	1.45		
PCB-44	410	-			PCB-94	5.64	-	J	
PCB-45	61.2	-			PCB-95	748	-		
PCB-46	25.8	-			PCB-96	7.60	-	J	
PCB-47	145	-			PCB-97	218	-		
PCB-48	74.9	-	C	75	PCB-98	ND	1.57	C	102
PCB-49	-	-	C043	43	PCB-99	301	-		
PCB-50	6.32	-	J		PCB-100	11.6	-	J	

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EPA Method 1668
PCBs

FAL ID: 12511-012-SA
Client ID: LDW-Y2-IN-ENR+AC-CC-SSWI
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
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	129	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.71		
PCB-103	14.1	-	J		PCB-153	416	-		
PCB-104	1820	-			PCB-154	22.1	-		
PCB-105	121	-			PCB-155	3430	-		
PCB-106	365	-	C	118	PCB-156	26.9	-		
PCB-107	31.9	-	C	108	PCB-157	9.13	-	J	
PCB-108	-	-	C107	107	PCB-158	40.8	-	C	160
PCB-109	ND	4.12			PCB-159	7.39	-	J	
PCB-110	674	-			PCB-160	-	-	C158	158
PCB-111	12.1	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	3.95			PCB-163	-	-	C138	138/164
PCB-114	6.45	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	2.52		
PCB-117	-	-	C087	87/125	PCB-167	14.7	-	J	
PCB-118	-	-	C	106	PCB-168	ND	2.42		
PCB-119	20.2	-			PCB-169	ND	2.51		
PCB-120	ND	4.03			PCB-170	46.3	-		
PCB-121	3720	-			PCB-171	17.8	-	J	
PCB-122	6.39	-	J		PCB-172	129	-		
PCB-123	7.49	-	J		PCB-173	ND	3.85		
PCB-124	18.6	-	J		PCB-174	60.2	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.46		
PCB-126	ND	3.69			PCB-176	11.3	-	J	
PCB-127	ND	3.17			PCB-177	40.6	-		
PCB-128	59.4	-	C	162	PCB-178	20.3	-		
PCB-129	23.8	-			PCB-179	36.5	-		
PCB-130	31.4	-			PCB-180	135	-		
PCB-131	15.3	-	C,J	133	PCB-181	ND	3.47		
PCB-132	151	-	C	161	PCB-182	88.2	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	42.1	-		
PCB-134	34.1	-	C	143	PCB-184	4460	-		
PCB-135	75.0	-			PCB-185	7.60	-	J	
PCB-136	90.1	-			PCB-186	4.91	-	J	
PCB-137	27.0	-			PCB-187	-	-	C182	182
PCB-138	388	-	C	163/164	PCB-188	6.28	-	J	
PCB-139	351	-	C	149	PCB-189	ND	1.97		
PCB-140	6.49	-	J		PCB-190	11.7	-	J	
PCB-141	74.6	-			PCB-191	ND	2.67		
PCB-142	10600	-			PCB-192	3800	-		
PCB-143	-	-	C134	134	PCB-193	10.2	-	J	
PCB-144	25.5	-			PCB-194	14.6	-	J	
PCB-145	ND	1.81			PCB-195	7.84	-	J	
PCB-146	84.0	-	C	165	PCB-196	21.7	-	C	203
PCB-147	16.2	-	J		PCB-197	49.2	-		
PCB-148	ND	2.72			PCB-198	ND	2.44		
PCB-149	-	-	C139	139	PCB-199	25.1	-		
PCB-150	ND	1.68			PCB-200	ND	1.74		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12511-012-SA
Client ID: LDW-Y2-IN-ENR+AC-CC-SSWI
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
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	1.80		
PCB-202	8.45	-	J	
PCB-203	-	-	C196	196
PCB-204	9350	-		
PCB-205	ND	2.21		
PCB-206	5.62	-	J	
PCB-207	39.1	-		
PCB-208	3.63	-	J	
PCB-209	43.5	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	83.7	5.00 - 145	
13C-PCB-3	86.4	5.00 - 145	
13C-PCB-4	80.4	5.00 - 145	
13C-PCB-15	90.0	5.00 - 145	
13C-PCB-19	85.0	5.00 - 145	
13C-PCB-37	93.5	5.00 - 145	
13C-PCB-54	78.5	5.00 - 145	
13C-PCB-77	90.0	10.0 - 145	
13C-PCB-81	94.4	10.0 - 145	
13C-PCB-104	84.2	10.0 - 145	
13C-PCB-105	95.8	10.0 - 145	
13C-PCB-114	99.0	10.0 - 145	
13C-PCB-118	97.6	10.0 - 145	
13C-PCB-123	100	10.0 - 145	
13C-PCB-126	96.7	10.0 - 145	
13C-PCB-155	79.7	10.0 - 145	
13C-PCB-156	100	10.0 - 145	
13C-PCB-157	96.6	10.0 - 145	
13C-PCB-167	98.6	10.0 - 145	
13C-PCB-169	99.8	10.0 - 145	
13C-PCB-188	90.7	10.0 - 145	
13C-PCB-189	106	10.0 - 145	
13C-PCB-202	92.1	10.0 - 145	
13C-PCB-205	91.2	10.0 - 145	
13C-PCB-206	82.5	10.0 - 145	
13C-PCB-208	79.6	10.0 - 145	
13C-PCB-209	80.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	84.8	5.00 - 145	
13C-PCB-111	91.2	10.0 - 145	
13C-PCB-178	92.6	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: 8/7/2019

Reviewed By: DPV

Date: 8/7/2019

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EPA Method 1668
PCBs

FAL ID: 12511-015-SA
Client ID: LDW-Y2-IN-ENR-CA-SSWI
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
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: 53900

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	3.64			PCB-51	23.2	-		
PCB-2	ND	4.56			PCB-52	806	-	C	69
PCB-3	ND	4.95			PCB-53	76.3	-		
PCB-4	47.9	-			PCB-54	ND	2.18		
PCB-5	ND	8.58			PCB-55	56.3	-		
PCB-6	40.0	-			PCB-56	136	-	C	60
PCB-7	ND	8.45			PCB-57	6.95	-	J	
PCB-8	72.6	-			PCB-58	ND	2.41		
PCB-9	ND	8.44			PCB-59	-	-	C042	42
PCB-10	ND	8.86			PCB-60	-	-	C056	56
PCB-11	38.6	-			PCB-61	341	-	C	70
PCB-12	ND	9.24			PCB-62	ND	2.49		
PCB-13	ND	9.32			PCB-63	16.3	-	J	
PCB-14	217	-			PCB-64	-	-	C041	41/71/72
PCB-15	38.0	-			PCB-65	ND	2.66		
PCB-16	68.4	-			PCB-66	305	-	C	76
PCB-17	108	-			PCB-67	15.7	-	J	
PCB-18	261	-			PCB-68	14.3	-	J	
PCB-19	32.2	-			PCB-69	-	-	C052	52
PCB-20	115	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	65.3	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	3.60			PCB-73	23.4	-		
PCB-24	20.9	-			PCB-74	144	-		
PCB-25	55.9	-			PCB-75	-	-	C048	48
PCB-26	108	-			PCB-76	-	-	C066	66
PCB-27	15.0	-	J		PCB-77	25.8	-		
PCB-28	234	-			PCB-78	1940	-		
PCB-29	ND	3.58			PCB-79	8.72	-	J	
PCB-30	ND	2.32			PCB-80	ND	2.22		
PCB-31	223	-			PCB-81	26.3	-		
PCB-32	56.4	-			PCB-82	77.6	-		
PCB-33	-	-	C020	20/21	PCB-83	41.7	-	C	112
PCB-34	ND	3.62			PCB-84	394	-	C	92
PCB-35	ND	4.17			PCB-85	117	-	C	116
PCB-36	474	-			PCB-86	9.73	-	J	
PCB-37	40.5	-			PCB-87	282	-	C	117/125
PCB-38	ND	3.68			PCB-88	ND	1.66	C	91
PCB-39	ND	3.77			PCB-89	10.0	-	J	
PCB-40	53.5	-			PCB-90	768	-	C	101
PCB-41	292	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	131	-	C	59	PCB-92	-	-	C084	84
PCB-43	484	-	C	49	PCB-93	ND	1.72		
PCB-44	398	-			PCB-94	6.85	-	J	
PCB-45	63.3	-			PCB-95	884	-		
PCB-46	23.5	-			PCB-96	8.32	-	J	
PCB-47	148	-			PCB-97	224	-		
PCB-48	79.2	-	C	75	PCB-98	ND	1.85	C	102
PCB-49	-	-	C043	43	PCB-99	315	-		
PCB-50	9.28	-	J		PCB-100	14.0	-	J	

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EPA Method 1668
PCBs

FAL ID: 12511-015-SA
Client ID: LDW-Y2-IN-ENR-CA-SSWI
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
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	145	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.35		
PCB-103	16.5	-	J		PCB-153	450	-		
PCB-104	1860	-			PCB-154	24.4	-		
PCB-105	150	-			PCB-155	3540	-		
PCB-106	428	-	C	118	PCB-156	33.4	-		
PCB-107	38.5	-	C	108	PCB-157	10.7	-	J	
PCB-108	-	-	C107	107	PCB-158	49.7	-	C	160
PCB-109	ND	4.09			PCB-159	9.70	-	J	
PCB-110	857	-			PCB-160	-	-	C158	158
PCB-111	16.6	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	3.92			PCB-163	-	-	C138	138/164
PCB-114	10.8	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	2.82		
PCB-117	-	-	C087	87/125	PCB-167	15.5	-	J	
PCB-118	-	-	C	106	PCB-168	ND	2.70		
PCB-119	26.0	-			PCB-169	ND	2.91		
PCB-120	ND	4.00			PCB-170	50.6	-		
PCB-121	4070	-			PCB-171	19.2	-	J	
PCB-122	6.24	-	J		PCB-172	125	-		
PCB-123	8.79	-	J		PCB-173	ND	3.30		
PCB-124	20.7	-			PCB-174	56.4	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	2.96		
PCB-126	ND	3.91			PCB-176	12.4	-	J	
PCB-127	ND	3.54			PCB-177	39.1	-		
PCB-128	72.8	-	C	162	PCB-178	19.2	-	J	
PCB-129	24.4	-			PCB-179	38.3	-		
PCB-130	37.3	-			PCB-180	149	-		
PCB-131	18.8	-	C,J	133	PCB-181	11.0	-	J	
PCB-132	149	-	C	161	PCB-182	91.2	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	42.8	-		
PCB-134	42.5	-	C	143	PCB-184	4540	-		
PCB-135	87.4	-			PCB-185	11.0	-	J	
PCB-136	86.7	-			PCB-186	5.40	-	J	
PCB-137	29.9	-			PCB-187	-	-	C182	182
PCB-138	463	-	C	163/164	PCB-188	8.86	-	J	
PCB-139	403	-	C	149	PCB-189	ND	1.78		
PCB-140	ND	3.30			PCB-190	10.5	-	J	
PCB-141	88.0	-			PCB-191	ND	2.29		
PCB-142	10800	-			PCB-192	3860	-		
PCB-143	-	-	C134	134	PCB-193	13.3	-	J	
PCB-144	26.5	-			PCB-194	14.5	-	J	
PCB-145	ND	1.43			PCB-195	7.01	-	J	
PCB-146	114	-	C	165	PCB-196	19.1	-	C,J	203
PCB-147	14.8	-	J		PCB-197	56.1	-		
PCB-148	ND	2.15			PCB-198	ND	2.67		
PCB-149	-	-	C139	139	PCB-199	25.2	-		
PCB-150	ND	1.33			PCB-200	ND	1.91		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12511-015-SA
Client ID: LDW-Y2-IN-ENR-CA-SSWI
Matrix: Solvent
Batch No: X4992

Date Extracted: 08-01-2019
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	7.99	-	J	
PCB-203	-	-	C196,J	196
PCB-204	9240	-		
PCB-205	ND	1.83		
PCB-206	5.80	-	J	
PCB-207	39.5	-		
PCB-208	ND	2.99		
PCB-209	44.5	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	81.8	5.00 - 145	
13C-PCB-3	81.8	5.00 - 145	
13C-PCB-4	76.2	5.00 - 145	
13C-PCB-15	85.0	5.00 - 145	
13C-PCB-19	79.9	5.00 - 145	
13C-PCB-37	84.0	5.00 - 145	
13C-PCB-54	79.8	5.00 - 145	
13C-PCB-77	81.7	10.0 - 145	
13C-PCB-81	98.9	10.0 - 145	
13C-PCB-104	80.1	10.0 - 145	
13C-PCB-105	88.5	10.0 - 145	
13C-PCB-114	96.2	10.0 - 145	
13C-PCB-118	92.3	10.0 - 145	
13C-PCB-123	90.9	10.0 - 145	
13C-PCB-126	90.6	10.0 - 145	
13C-PCB-155	80.2	10.0 - 145	
13C-PCB-156	90.7	10.0 - 145	
13C-PCB-157	91.6	10.0 - 145	
13C-PCB-167	82.2	10.0 - 145	
13C-PCB-169	90.2	10.0 - 145	
13C-PCB-188	86.1	10.0 - 145	
13C-PCB-189	93.0	10.0 - 145	
13C-PCB-202	83.8	10.0 - 145	
13C-PCB-205	88.9	10.0 - 145	
13C-PCB-206	81.3	10.0 - 145	
13C-PCB-208	85.6	10.0 - 145	
13C-PCB-209	78.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	89.4	5.00 - 145	
13C-PCB-111	95.4	10.0 - 145	
13C-PCB-178	91.9	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: 8/7/2019

Reviewed By: DPV

Date: 8/7/2019

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No.: 12511
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+AC-CB-5010	6-25-19	0958	hexane									✓			Process, do run on GC
2	LDW-Y2-IN-ENR+AC-CC-5010	6-25-19	1018	hexane									✓			Process, do run on GC
3	LDW-Y2-IN-ENR+AC-CD-5010	6-25-19	1010	hexane									✓			Process, do not run on GC
4	LDW-Y2-IN-ENR+AC-CE-5010	6-25-19	1030	hexane									✓			Process, do not run on GC
5	LDW-Y2-IN-ENR-CA-5010	6-25-19	1108	hexane									✓			Process, do run on GC
6	LDW-Y2-IN-ENR-CB-5010	6-25-19	1125	hexane									✓			Process, do run on GC
7	LDW-Y2-IN-ENR-CC-5010	6-25-19	1133	hexane									✓			Process, do run on GC
8	LDW-Y2-IN-ENR-CD-5010	6-25-19	1145	hexane									✓			Process, do not run on GC
9	LDW-Y2-IN-ENR-CE-5010	6-25-19	1157	hexane									✓			Process, do not run on GC
10	LDW-Y2-IN-ENR+AC-CA-SSW1	6-24-19	1413	hexane									✓			Process, do run on GC
11	LDW-Y2-IN-ENR+AC-CB-SSW1	6-24-19	1422	hexane									✓			Process, do run on GC
12	LDW-Y2-IN-ENR+AC-CC-SSW1	6-24-19	1429	hexane									✓			Process, do run on GC
13	LDW-Y2-IN-ENR+AC-CD-SSW1	6-24-19	1441	hexane									✓			Process, do not run on GC
14	LDW-Y2-IN-ENR+AC-CE-SSW1	6-24-19	1453	hexane									✓			Process, do not run on GC
15	LDW-Y2-IN-ENR-CA-SSW1	6-24-19	1331	hexane									✓			Process, do 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	6/26/19	1412	Kathy Sop Kizer	6-26-19	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.

TEF 02.7 1802 6

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
www.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: **12511**

Client:	Floyd | Snider
Client Project ID:	LY15160310
Date Received:	06/28/2019
Time Received:	09:00 am
Received By:	KZ
Logged In By:	RR
# 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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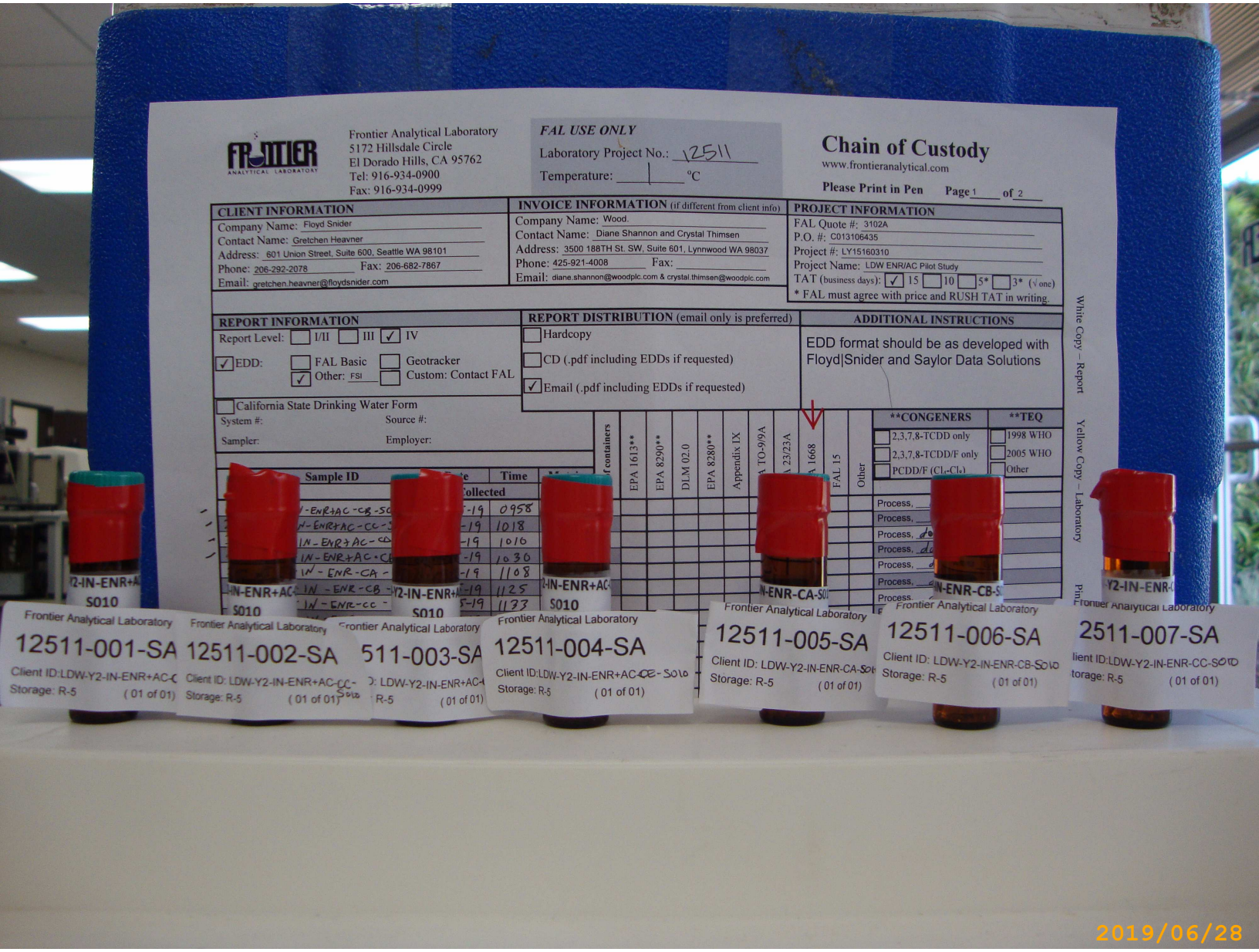
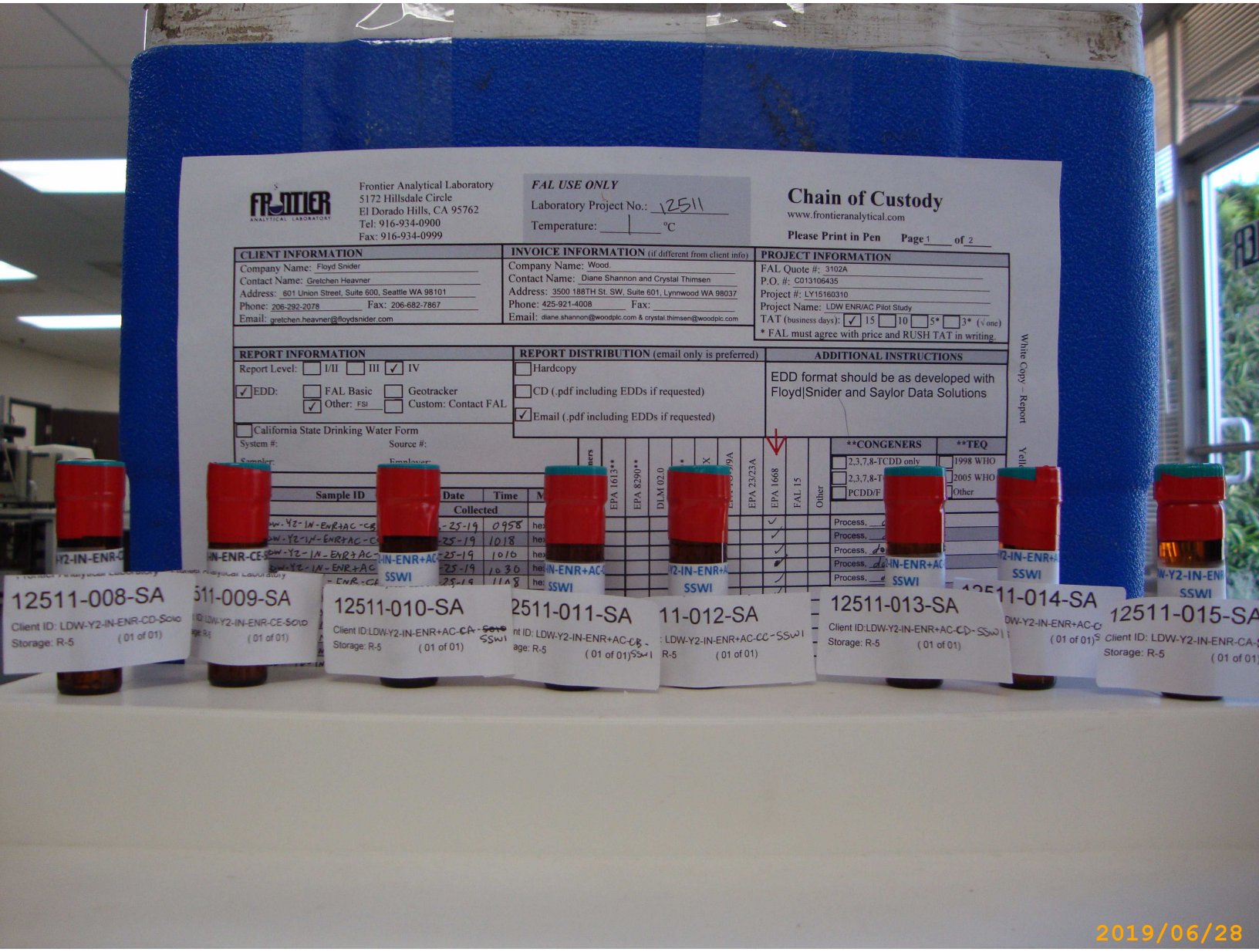

Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999
FAL USE ONLY
Laboratory Project No.: 12511
Temperature: °C
Chain of Custody
www.frontieranalytical.com
Please Print in Pen
Page 1 of 2
CLIENT INFORMATION
Company Name: Floyd Snider
Contact 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
Sample ID
Time Collected
EPA 1613**
EPA 8290**
DLM 02.0
EPA 8280**
Appendix IX
TO-9/9A
23/23A
1668
FAL 15
Other
**CONGENERS
2,3,7,8-TCDD only
2,3,7,8-TCDD/F only
PCDD/F (Cl4-Cl8)
**TEQ
1998 WHO
2005 WHO
Other
White Copy – Report
Yellow Copy – Laboratory
Pink
Frontier Analytical Laboratory
12511-001-SA
Client ID:LDW-Y2-IN-ENR+AC-CC
Storage: R-5
(01 of 01)
12511-002-SA
Client ID: LDW-Y2-IN-ENR+AC-CC-SOLID
12511-003-SA
12511-004-SA
Client ID:LDW-Y2-IN-ENR+AC-CC-SOLID
12511-005-SA
Client ID: LDW-Y2-IN-ENR-CA-SOLID
12511-006-SA
Client ID: LDW-Y2-IN-ENR-CB-SOLID
12511-007-SA
Client ID:LDW-Y2-IN-ENR-CC-SOLID
2019/06/28



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~~ON HOLD~~
off Hold
8-7-11

Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #:	12511	Sample #:	1 - 15	Client Manager:	BS
Client:	Floyd | Snider			Hold Time:	06/23/2020
Matrix:	Solvent	Extraction Batch:	4992	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: 12511-1
~~12510-14~~ DN 8/7/19
12511-9

Extract/s located in box: "Hotter than Hades"

Standards: 12511

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

7/11 - Extract all samples.
Analyze only the following:
1-4, 9-12 + 15

L4 & F|S EDD

Frontier Analytical Laboratory

EXTRACTION SHEET

Project #: 12511 Extraction Date: 2019-08-01 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
04992-001-0001-MB	(5.00mL)	NA	KC 8.1.19	NA	KC 8.1.19
04992-001-0001-OPR	(5.00mL)			KC 8.1.19	
12511-001-0001-SA	5.50mL			NA	
12511-002-0001-SA	5.20mL				
12511-003-0001-SA	5.20mL				
12511-004-0001-SA	5.30mL				
12511-005-0001-SA	5.40mL				
12511-006-0001-SA	5.30mL				
12511-007-0001-SA	5.60mL				
12511-008-0001-SA	5.20mL				
12511-009-0001-SA	5.50mL				
12511-010-0001-SA	5.10mL				
12511-011-0001-SA	5.30mL				
12511-012-0001-SA	5.30mL				
12511-013-0001-SA	5.20mL				
12511-014-0001-SA	5.30mL				
12511-015-0001-SA	5.70mL				

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 = 5.00mL Hexane.
- Sample volumes are approximate, measured using a 5mL pipette. KC 8.1.19

Frontier Analytical Laboratory
CLEANUP SHEET

Project #: 12511

Method/Analysis: EPA 1668 PCB

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

Sample ID	Cleanup 1 PCB·MSG Chemist/Date	Cleanup 2 NA Chemist/Date	Cleanup 3 NA Chemist/Date	RS Amt: 10.0uL ID: 190723A Vial: 1 Chemist/Witness/Date
04992-001-0001-MB	KC 8·1·19	NA	NA	KC 8·1·19
04992-001-0001-OPR				
12511-001-0001-SA				
12511-002-0001-SA				
12511-003-0001-SA				
12511-004-0001-SA				
12511-005-0001-SA				
12511-006-0001-SA				
12511-007-0001-SA				
12511-008-0001-SA				
12511-009-0001-SA				
12511-010-0001-SA				
12511-011-0001-SA				
12511-012-0001-SA				
12511-013-0001-SA				
12511-014-0001-SA				
12511-015-0001-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: 04992-001-0001-MB Filename: 02AUG19Z Sam:4 Acquired: 2-AUG-19 09:57:20 ICal: DAILY209FAL4-8-2-19
Client ID: Method Blank ConCal: ST08021 9Z1 EndCal: ST08021 9Z2
Results: 12511-1 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	*		1250	1140	2.00	
13C-PCB-1	7.63e+07	3.23	y	14:30	0.90	8320					83.2
PCB-2	*	*	n	NotFnd	1.17	*		1250	1140	2.11	
PCB-3	*	*	n	NotFnd	1.14	*		1250	1140	2.30	
13C-PCB-3	7.91e+07	3.32	y	16:56	0.92	8460					84.6
PCB-4	*	*	n	NotFnd	1.24	*		1010	6570	8.36	
PCB-10	*	*	n	NotFnd	1.21	*		1010	6570	7.85	
13C-PCB-4	5.76e+07	1.60	y	18:10	0.65	8750					87.5
PCB-9	*	*	n	NotFnd	1.33	*		1010	6570	7.18	
PCB-7	*	*	n	NotFnd	1.38	*		1010	6570	6.90	
PCB-6	*	*	n	NotFnd	1.41	*		1010	6570	6.74	
PCB-8	*	*	n	NotFnd	1.29	*		1010	6570	7.37	
PCB-5	*	*	n	NotFnd	1.37	*		1010	6570	6.96	
PCB-14	*	*	n	NotFnd	1.28	*		1010	6570	7.44	
PCB-11	*	*	n	NotFnd	1.20	*		1010	6570	7.93	
PCB-13	*	*	n	NotFnd	1.23	*		1010	6570	7.72	
PCB-12	*	*	n	NotFnd	1.26	*		1010	6570	7.58	
PCB-15	*	*	n	NotFnd	1.14	*		1010	6570	7.82	
13C-PCB-15	8.59e+07	1.59	y	23:42	0.98	8640					86.4
PCB-19	*	*	n	NotFnd	1.22	*		1340	460	3.01	
PCB-30	*	*	n	NotFnd	1.84	*		1340	460	2.00	
PCB-18	*	*	n	NotFnd	1.22	*		1340	460	3.02	
PCB-17	*	*	n	NotFnd	1.31	*		1340	460	2.82	
PCB-27	*	*	n	NotFnd	1.79	*		1340	460	2.07	
PCB-24	*	*	n	NotFnd	1.78	*		1340	460	2.08	
PCB-16	*	*	n	NotFnd	1.47	*		1340	460	2.51	
PCB-32	*	*	n	NotFnd	1.54	*		1340	460	2.39	
13C-PCB-19	4.28e+07	1.08	y	22:03	0.46	9200					92.0
13C-PCB-9	1.01e+08	1.59	y	19:51	-	59.6					
PCB-34	*	*	n	NotFnd	1.26	*		1620	600	3.67	
PCB-23	*	*	n	NotFnd	1.25	*		1620	600	3.72	
PCB-29	*	*	n	NotFnd	1.30	*		1620	600	3.57	
PCB-26	*	*	n	NotFnd	1.28	*		1620	600	3.63	
PCB-25	*	*	n	NotFnd	1.22	*		1620	600	3.80	
PCB-31	*	*	n	NotFnd	1.25	*		1620	600	3.70	
PCB-28	*	*	n	NotFnd	1.46	*		1620	600	3.18	
PCB-20	*	*	n	NotFnd	1.20	*		1620	600	3.88	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.20	*		1620	600	3.88	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.20	*		1620	600	3.88	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.28	*		1620	600	3.64	
PCB-36	*	*	n	NotFnd	1.18	*		1620	600	3.94	
PCB-39	*	*	n	NotFnd	1.17	*		1620	600	3.95	
PCB-38	*	*	n	NotFnd	1.16	*		1620	600	4.01	
PCB-35	*	*	n	NotFnd	1.07	*		1620	600	4.33	
PCB-37	*	*	n	NotFnd	1.13	*		1620	600	4.09	
13C-PCB-37	5.86e+07	1.08	y	30:21	1.48	9170					91.7

PCB-54	*	*	n	NotFnd	1.26	*	987	1230	3.37	
PCB-50	*	*	n	NotFnd	0.98	*	987	1230	4.35	
PCB-53	*	*	n	NotFnd	0.97	*	987	1230	4.39	
PCB-51	*	*	n	NotFnd	1.00	*	987	1230	4.25	
PCB-45	*	*	n	NotFnd	0.84	*	987	1230	5.07	
PCB-46	*	*	n	NotFnd	0.80	*	987	1230	5.35	
PCB-52	*	*	n	NotFnd	0.97	*	987	1230	4.42	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	0.97	*	987	1230	4.42	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.27	*	987	1230	3.36	
PCB-43	*	*	n	NotFnd	0.87	*	987	1230	4.92	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.87	*	987	1230	4.92	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.92	*	987	1230	4.64	
PCB-48	*	*	n	NotFnd	1.07	*	987	1230	3.99	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	1.07	*	987	1230	3.99	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.06	*	987	1230	4.01	
PCB-62	*	*	n	NotFnd	1.16	*	987	1230	3.68	
PCB-44	*	*	n	NotFnd	0.72	*	987	1230	5.92	
PCB-42	*	*	n	NotFnd	0.94	*	987	1230	4.53	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.94	*	987	1230	4.53	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	1.06	*	987	1230	4.03	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	1.06	*	987	1230	4.03	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	1.06	*	987	1230	4.03	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	1.06	*	987	1230	4.03	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	1.21	*	987	1230	3.54	
PCB-40	*	*	n	NotFnd	0.66	*	987	1230	6.50	
PCB-57	*	*	n	NotFnd	1.09	*	987	1230	3.90	
PCB-67	*	*	n	NotFnd	1.08	*	987	1230	3.96	
PCB-58	*	*	n	NotFnd	1.10	*	987	1230	3.87	
PCB-63	*	*	n	NotFnd	1.10	*	987	1230	3.86	
PCB-74	*	*	n	NotFnd	1.08	*	987	1230	3.96	
PCB-61	*	*	n	NotFnd	1.03	*	987	1230	4.14	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	1.03	*	987	1230	4.14	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.13	*	987	1230	3.78	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.13	*	987	1230	3.78	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.30	*	987	1230	3.29	
PCB-55	*	*	n	NotFnd	1.13	*	987	1230	3.78	
13C-PCB-54	4.99e+07	0.83	y	25:35	1.20	9650				96.5
PCB-104	*	*	n	NotFnd	1.11	*	687	456	2.33	
PCB-96	*	*	n	NotFnd	1.05	*	687	456	2.47	
PCB-103	*	*	n	NotFnd	0.84	*	687	456	3.07	
PCB-100	*	*	n	NotFnd	0.83	*	687	456	3.09	
PCB-94	*	*	n	NotFnd	0.69	*	687	456	3.76	
PCB-98	*	*	n	NotFnd	0.72	*	687	456	3.60	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.72	*	687	456	3.60	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.71	*	687	456	3.62	
PCB-93	*	*	n	NotFnd	0.69	*	687	456	3.72	
PCB-88	*	*	n	NotFnd	0.77	*	687	456	3.37	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.77	*	687	456	3.37	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.93	*	687	456	2.79	
13C-PCB-104	4.15e+07	1.58	y	30:00	0.92	10400				104
13C-PCB-28	7.71e+07	1.06	y	26:39	1.83	9760				97.6
13C-PCB-52	4.32e+07	0.81	y	28:55	-	53.3				

PCB-56	*	*	n	NotFnd	1.26	*	484	680	2.72	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.26	*	484	680	2.72	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.19	*	484	680	2.88	
PCB-78	*	*	n	NotFnd	1.10	*	484	680	3.12	
PCB-81	*	*	n	NotFnd	1.24	*	484	680	2.75	
13C-PCB-81	3.90e+07	0.81	y	36:06	1.38	9760				97.6
PCB-77	*	*	n	NotFnd	1.05	*	484	680	3.31	
13C-PCB-77	4.02e+07	0.81	y	36:40	1.43	9700				97.0
PCB-155	*	*	n	NotFnd	1.03	*	540	459	2.79	
PCB-150	*	*	n	NotFnd	0.99	*	540	459	2.91	
PCB-152	*	*	n	NotFnd	0.90	*	540	459	3.21	
PCB-145	*	*	n	NotFnd	0.86	*	540	459	3.36	
PCB-136	*	*	n	NotFnd	0.81	*	540	459	3.56	
PCB-148	*	*	n	NotFnd	0.60	*	540	459	4.77	
PCB-154	*	*	n	NotFnd	0.68	*	540	459	4.23	
13C-PCB-155	3.59e+07	1.27	y	34:09	1.23	10000				100
13C-PCB-111	3.02e+07	1.58	y	36:14	1.08	9590				95.9
13C-PCB-101	2.91e+07	1.61	y	34:36	-	46.8				
PCB-84	*	*	n	NotFnd	0.87	*	476	504	3.58	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.87	*	476	504	3.58	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.87	*	476	504	3.58	
PCB-90	*	*	n	NotFnd	0.98	*	476	504	3.20	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.98	*	476	504	3.20	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*	476	504	2.87	
PCB-99	*	*	n	NotFnd	1.12	*	476	504	2.80	
PCB-119	*	*	n	NotFnd	1.20	*	476	504	2.60	
PCB-83	*	*	n	NotFnd	0.88	*	476	504	3.55	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.88	*	476	504	3.55	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.06	*	476	504	2.94	
PCB-97	*	*	n	NotFnd	0.72	*	476	504	4.35	
PCB-86	*	*	n	NotFnd	0.71	*	476	504	4.40	
PCB-125	*	*	n	NotFnd	0.95	*	476	504	3.28	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.95	*	476	504	3.28	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.95	*	476	504	3.28	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.15	*	476	504	2.72	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.15	*	476	504	2.72	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.87	*	476	504	3.60	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.87	*	476	504	3.60	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.13	*	476	504	2.78	
PCB-110	*	*	n	NotFnd	1.04	*	476	504	3.02	
PCB-82	*	*	n	NotFnd	0.60	*	476	504	5.21	
PCB-124	*	*	n	NotFnd	1.04	*	396	848	3.82	
PCB-108	*	*	n	NotFnd	1.10	*	396	848	3.61	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.10	*	396	848	3.61	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.05	*	396	848	3.69	
13C-PCB-123	3.24e+07	1.58	y	38:17	1.31	9320				93.2
PCB-118	*	*	n	NotFnd	1.04	*	396	848	3.66	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.04	*	396	848	3.66	Co-elute PCB 118
13C-PCB-118	3.61e+07	1.57	y	38:27	1.51	9020				90.2
PCB-114	*	*	n	NotFnd	1.11	*	396	848	3.56	
13C-PCB-114	3.38e+07	1.57	y	39:04	1.42	8970				89.7
PCB-122	*	*	n	NotFnd	1.07	*	396	848	3.70	
PCB-105	*	*	n	NotFnd	1.13	*	396	848	3.72	
13C-PCB-105	3.27e+07	1.63	y	39:54	1.44	8570				85.7

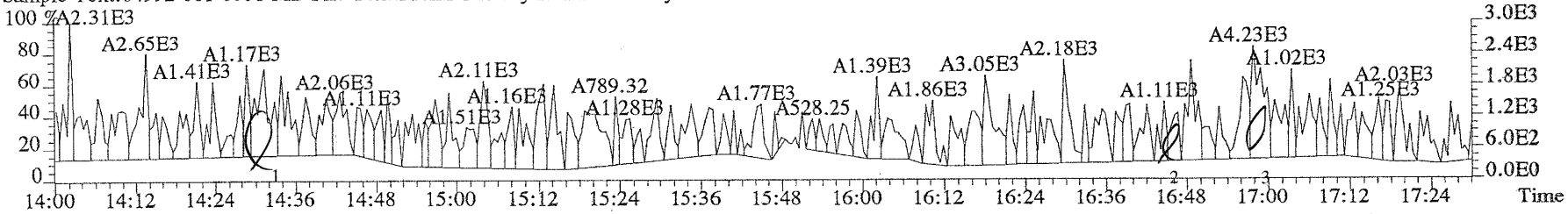
PCB-127	*	*	n	NotFnd	1.05	*	396	848	3.78	
PCB-126	*	*	n	NotFnd	1.08	*	396	848	4.30	
13C-PCB-126	3.12e+07	1.61	y	42:01	1.36	8620				86.2
PCB-151	*	*	n	NotFnd	0.76	*	476	296	4.01	
PCB-135	*	*	n	NotFnd	0.78	*	476	296	3.89	
PCB-144	*	*	n	NotFnd	0.80	*	476	296	3.79	
PCB-147	*	*	n	NotFnd	0.92	*	476	296	3.33	
PCB-139	*	*	n	NotFnd	0.89	*	476	296	3.43	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	0.89	*	476	296	3.43	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.87	*	476	296	3.52	
PCB-143	*	*	n	NotFnd	0.75	*	476	296	4.08	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.75	*	476	296	4.08	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.72	*	476	296	4.24	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.72	*	476	296	4.24	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.74	*	476	296	4.15	
PCB-165	*	*	n	NotFnd	1.01	*	476	296	3.02	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.01	*	476	296	3.02	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	0.94	*	476	296	3.25	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	0.94	*	476	296	3.25	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	0.96	*	476	296	3.18	
PCB-168	*	*	n	NotFnd	1.09	*	476	296	2.79	
PCB-141	*	*	n	NotFnd	0.79	*	476	296	3.85	
PCB-137	*	*	n	NotFnd	0.83	*	476	296	3.66	
PCB-130	*	*	n	NotFnd	0.69	*	476	296	4.41	
PCB-138	*	*	n	NotFnd	1.03	*	476	296	2.98	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.03	*	476	296	2.98	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.03	*	476	296	2.98	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.13	*	476	296	2.71	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.13	*	476	296	2.71	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.70	*	476	296	4.38	
PCB-166	*	*	n	NotFnd	1.09	*	476	296	2.80	
PCB-159	*	*	n	NotFnd	1.17	*	476	296	2.61	
PCB-128	*	*	n	NotFnd	0.93	*	476	296	3.26	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	0.93	*	476	296	3.26	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	1.11	*	476	296	2.55	
13C-PCB-167	2.84e+07	1.28	y	43:21	1.22	8800				88.0
PCB-156	*	*	n	NotFnd	1.20	*	476	296	2.56	
13C-PCB-156	2.65e+07	1.26	y	44:35	1.23	8120				81.2
PCB-157	*	*	n	NotFnd	1.11	*	476	296	2.87	
13C-PCB-157	2.77e+07	1.30	y	44:50	1.25	8370				83.7
PCB-169	*	*	n	NotFnd	1.05	*	476	296	2.99	
13C-PCB-169	2.53e+07	1.29	y	46:44	1.28	7450				74.5

FAL ID: 04992-001-0001-MB Filename: 02AUG19Z Sam:4 Acquired: 2-AUG-19 09:57:20 ICal: DAILY209FAL4-8-2-19
Client ID: Method Blank ConCal: ST080219Z1 EndCal: ST080219Z2
Results: 12511-1 GC Column: DB1MS Amount: 1.000

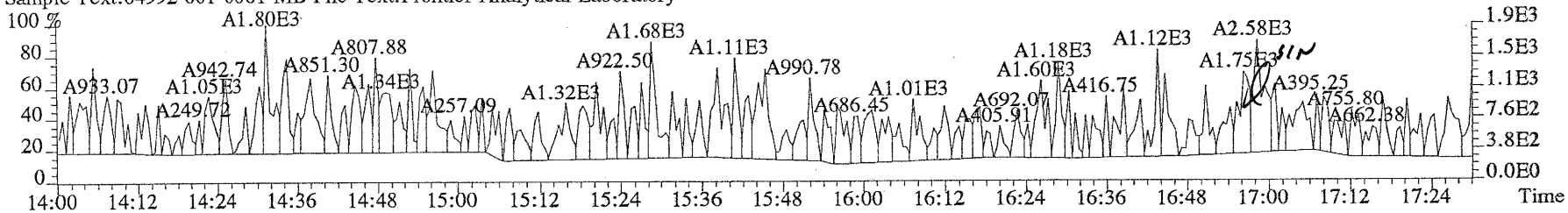
PCB-188	*	*	n	NotFnd	1.07	*	456	423	3.09	
13C-PCB-188	2.64e+07	1.06	y	39:39	1.05	9500				95.0
PCB-184	*	*	n	NotFnd	1.06	*	456	423	3.12	
PCB-179	*	*	n	NotFnd	1.03	*	456	423	3.20	
PCB-176	*	*	n	NotFnd	1.03	*	456	423	3.21	
PCB-186	*	*	n	NotFnd	1.02	*	456	423	3.22	
PCB-178	*	*	n	NotFnd	0.66	*	456	423	5.00	
PCB-175	*	*	n	NotFnd	0.78	*	456	423	4.24	
PCB-187	*	*	n	NotFnd	0.83	*	456	423	3.98	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.83	*	456	423	3.98	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.81	*	456	423	4.07	
PCB-185	*	*	n	NotFnd	0.72	*	456	423	4.54	
PCB-174	*	*	n	NotFnd	0.72	*	456	423	4.59	
PCB-181	*	*	n	NotFnd	0.81	*	456	423	4.05	
PCB-177	*	*	n	NotFnd	0.65	*	456	423	5.07	
PCB-171	*	*	n	NotFnd	0.76	*	456	423	4.33	
PCB-173	*	*	n	NotFnd	0.69	*	456	423	4.77	
PCB-172	*	*	n	NotFnd	0.73	*	456	423	4.50	
PCB-192	*	*	n	NotFnd	0.96	*	456	423	3.41	
PCB-180	*	*	n	NotFnd	0.73	*	456	423	4.51	
PCB-193	*	*	n	NotFnd	1.03	*	456	423	3.19	
PCB-191	*	*	n	NotFnd	1.02	*	456	423	3.22	
PCB-170	*	*	n	NotFnd	0.73	*	456	423	4.50	
PCB-190	*	*	n	NotFnd	1.05	*	456	423	3.14	
PCB-189	*	*	n	NotFnd	1.06	*	456	423	3.09	
13C-PCB-189	2.53e+07	1.09	y	48:24	1.06	8980				89.8
PCB-202	*	*	n	NotFnd	1.05	*	324	288	2.64	
PCB-201	*	*	n	NotFnd	1.01	*	324	288	2.74	
PCB-204	*	*	n	NotFnd	1.13	*	324	288	2.44	
PCB-197	*	*	n	NotFnd	1.10	*	324	288	2.53	
PCB-200	*	*	n	NotFnd	1.04	*	324	288	2.66	
PCB-198	*	*	n	NotFnd	0.76	*	324	288	3.66	
PCB-199	*	*	n	NotFnd	0.86	*	324	288	3.22	
PCB-203	*	*	n	NotFnd	0.93	*	324	288	2.97	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.93	*	324	288	2.97	Co-elute PCB 203
13C-PCB-202	2.19e+07	0.92	y	44:45	0.85	9700				97.0
13C-PCB-178	1.68e+07	1.08	y	42:17	0.66	9540				95.4
13C-PCB-138	2.65e+07	1.27	y	41:31	-	52.3				
PCB-195	*	*	n	NotFnd	0.78	*	320	652	3.35	
PCB-194	*	*	n	NotFnd	0.85	*	320	652	3.06	
PCB-205	*	*	n	NotFnd	1.10	*	320	652	2.37	
13C-PCB-205	2.90e+07	0.90	y	50:03	1.30	9270				92.7
PCB-208	*	*	n	NotFnd	1.06	*	450	444	2.12	
13C-PCB-208	2.82e+07	0.82	y	49:07	1.20	9790				97.9
PCB-207	*	*	n	NotFnd	1.18	*	450	444	2.22	
PCB-206	*	*	n	NotFnd	1.07	*	450	444	2.89	
13C-PCB-206	2.21e+07	0.80	y	51:14	0.94	9780				97.8
PCB-209	*	*	n	NotFnd	1.12	*	552	540	2.72	
13C-PCB-209	2.80e+07	1.22	y	52:26	1.22	9570				95.7
13C-PCB-194	2.41e+07	0.92	y	49:48	-	47.0				

Analyst: _____ Date: 8/5/19

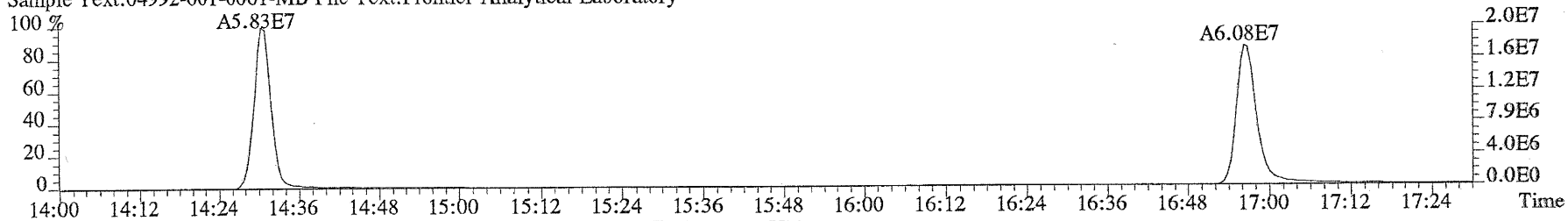
File:02AUG19Z #1-783 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



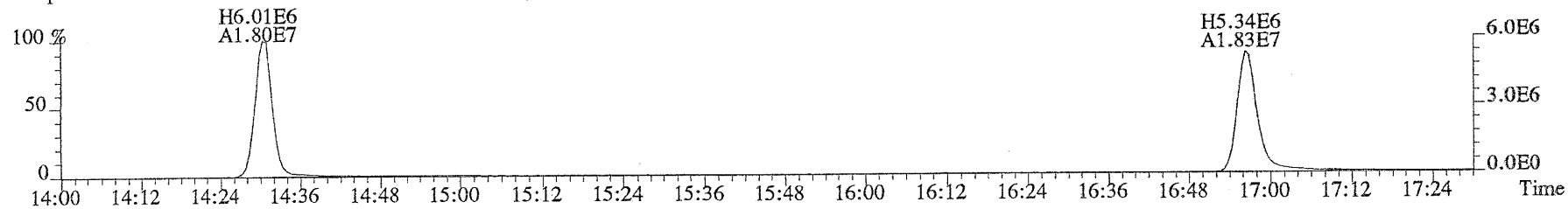
File:02AUG19Z #1-783 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



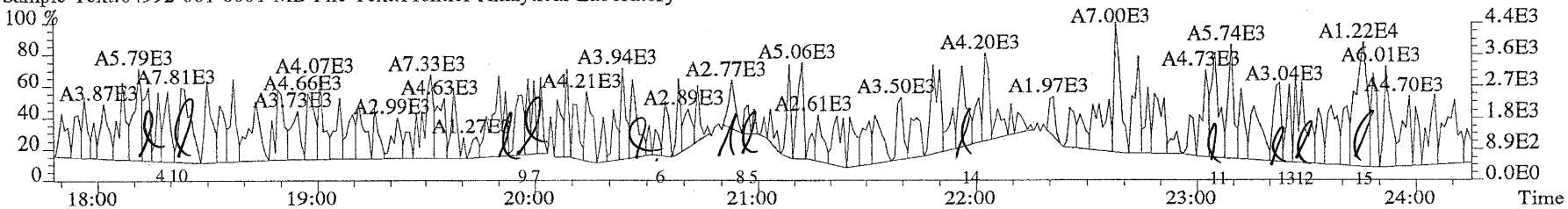
File:02AUG19Z #1-783 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



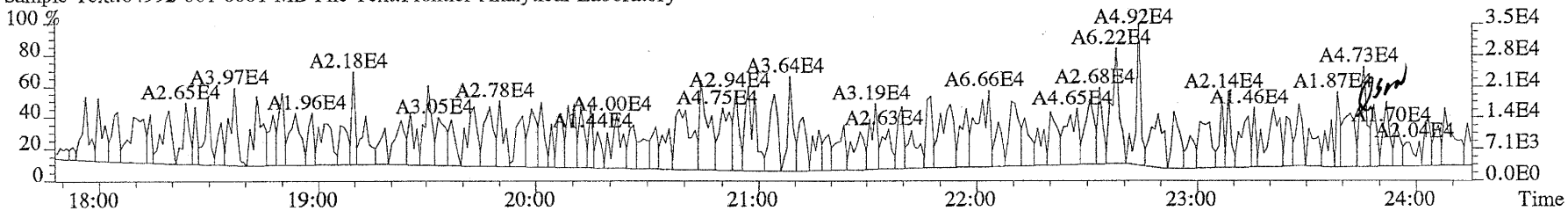
File:02AUG19Z #1-783 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



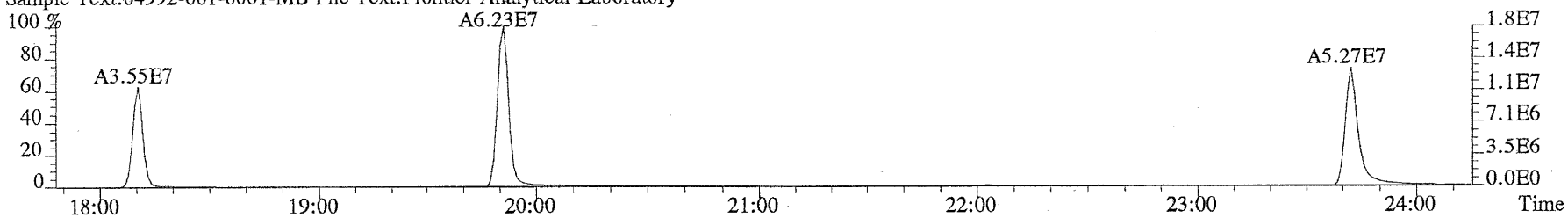
File:02AUG19Z #1-520 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



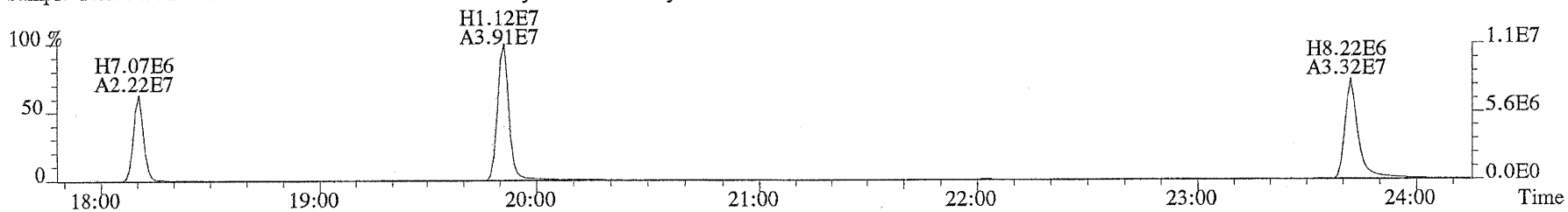
File:02AUG19Z #1-520 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



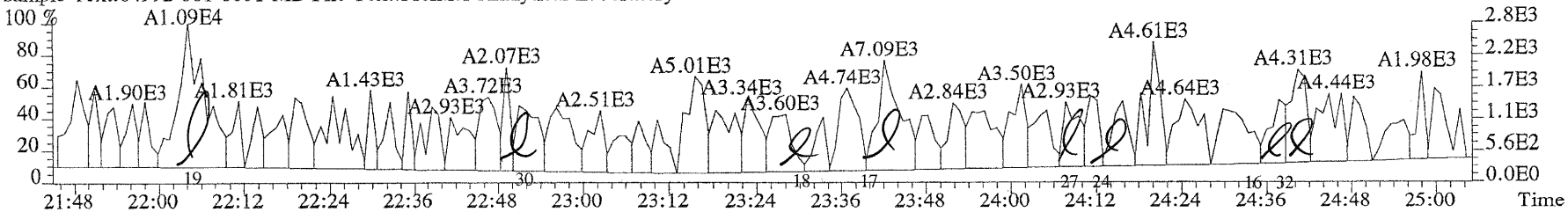
File:02AUG19Z #1-520 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



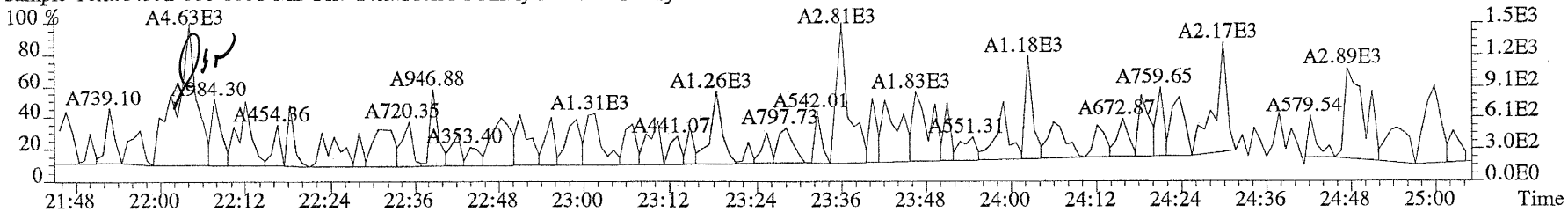
File:02AUG19Z #1-520 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



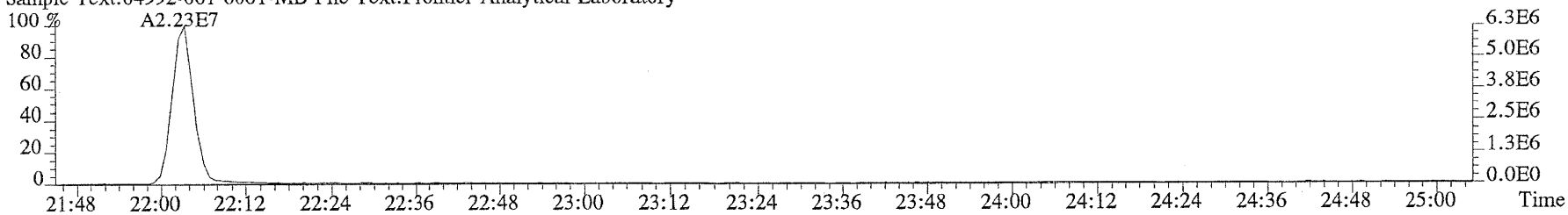
File:02AUG19Z #1-520 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



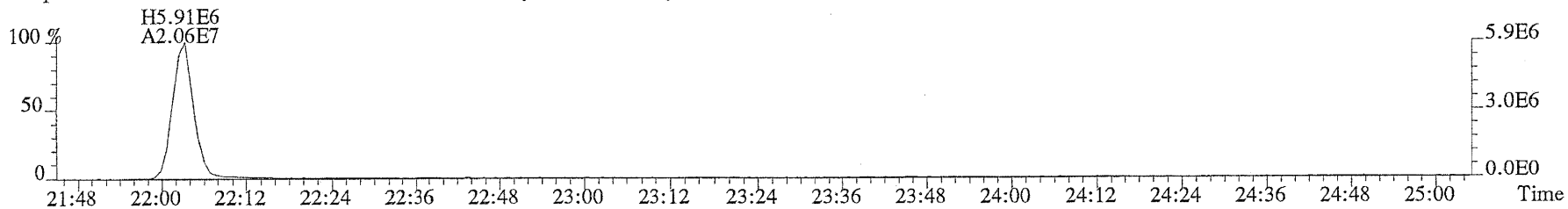
File:02AUG19Z #1-520 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



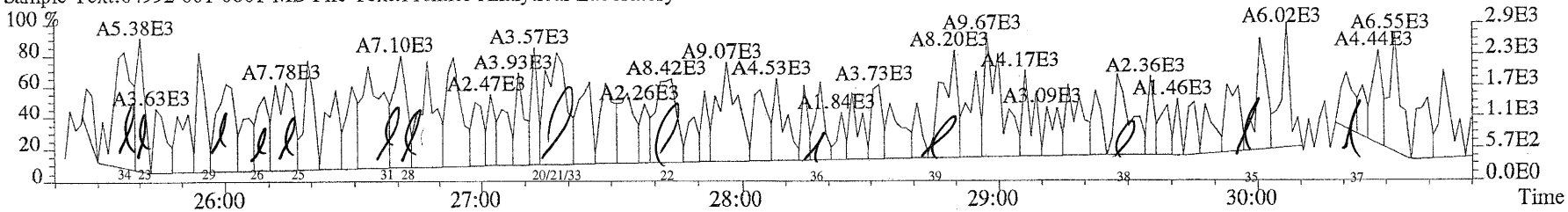
File:02AUG19Z #1-520 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



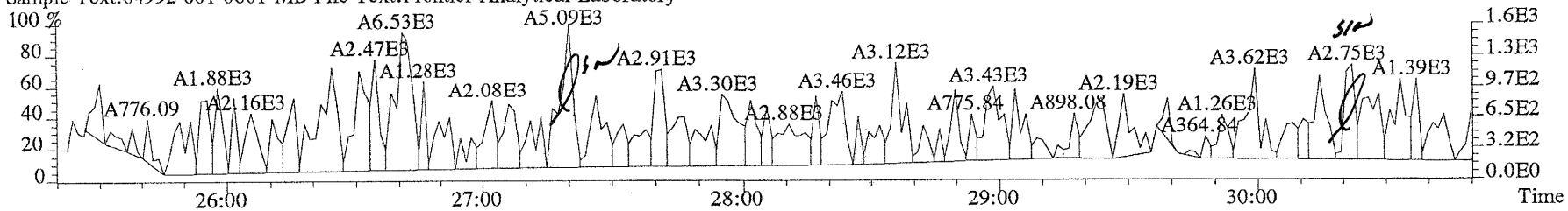
File:02AUG19Z #1-520 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



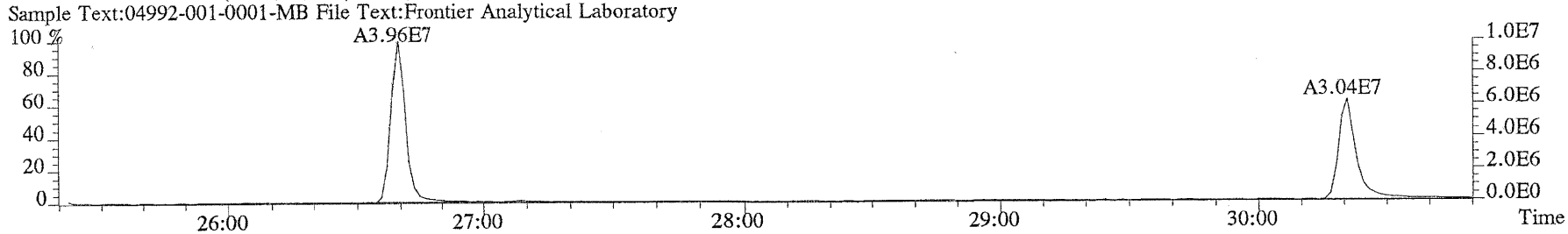
File:02AUG19Z #1-402 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



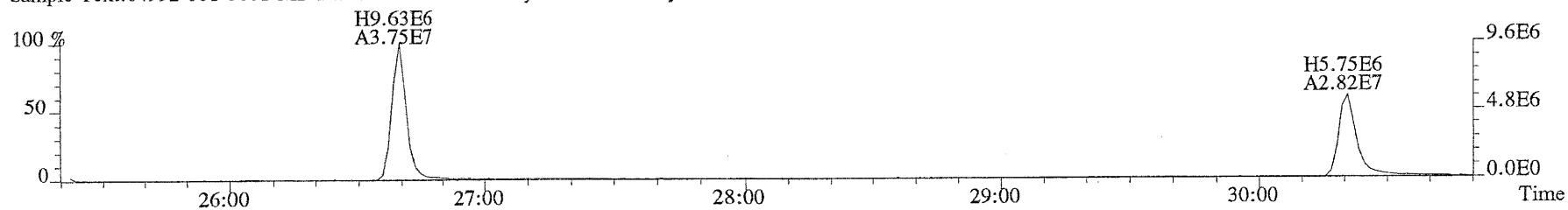
File:02AUG19Z #1-402 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-402 Acq: 2-AUG-2019 09:57:20 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:04992-001-0001-MB File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-402 Acq: 2-AUG-2019 09:57:20 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:04992-001-0001-MB File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-402 Acq: 2-AUG-2019 09:57:20 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
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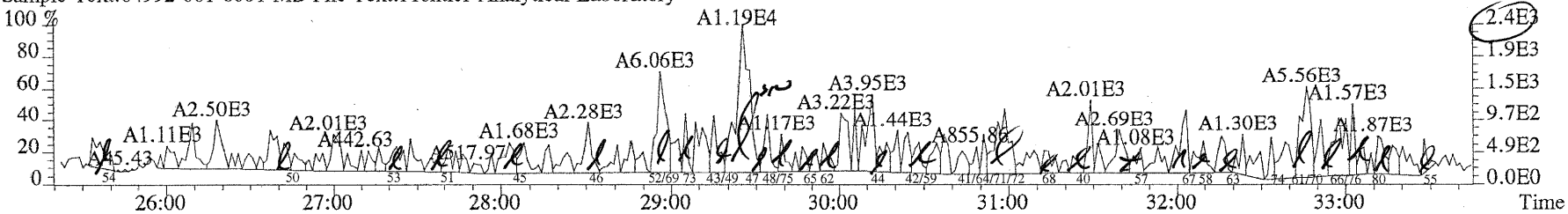

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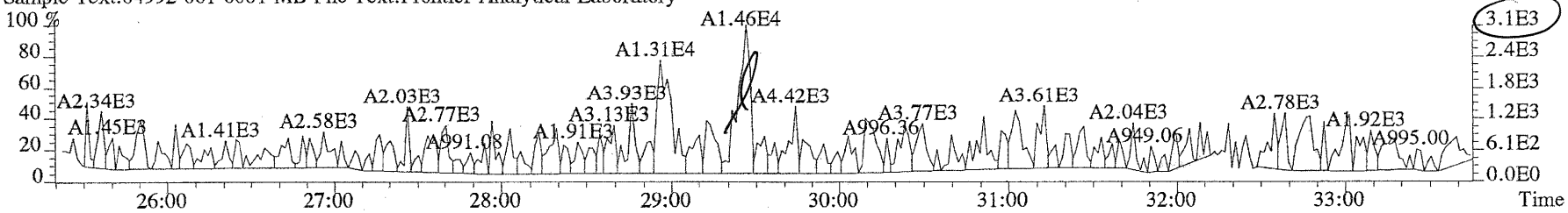

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301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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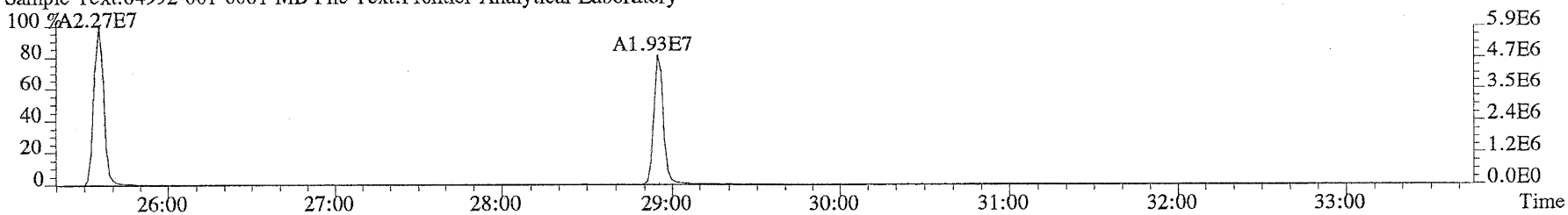

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303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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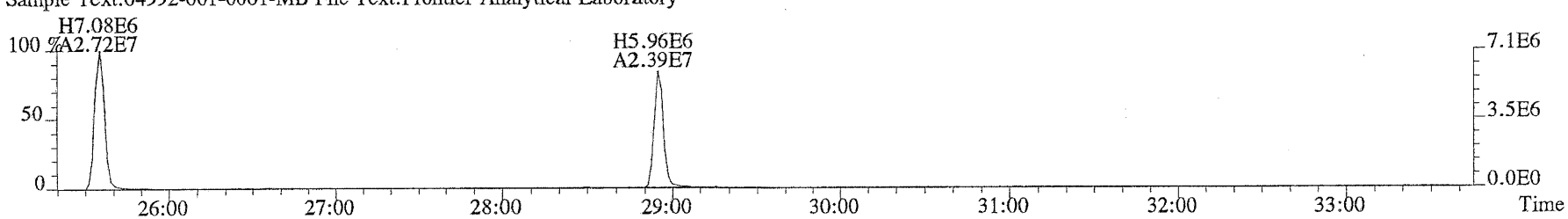
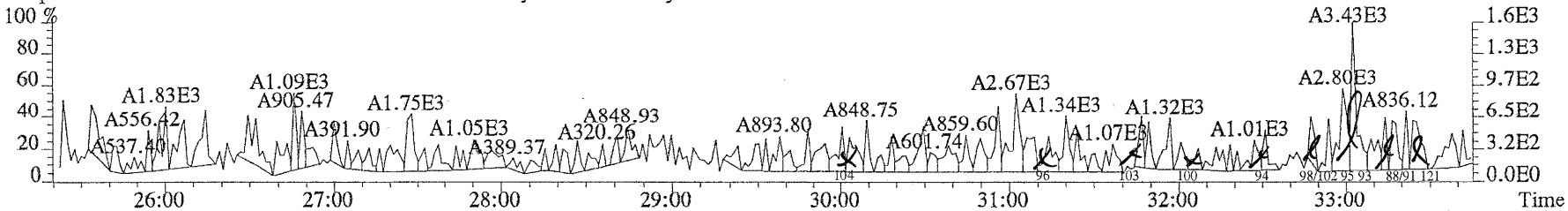
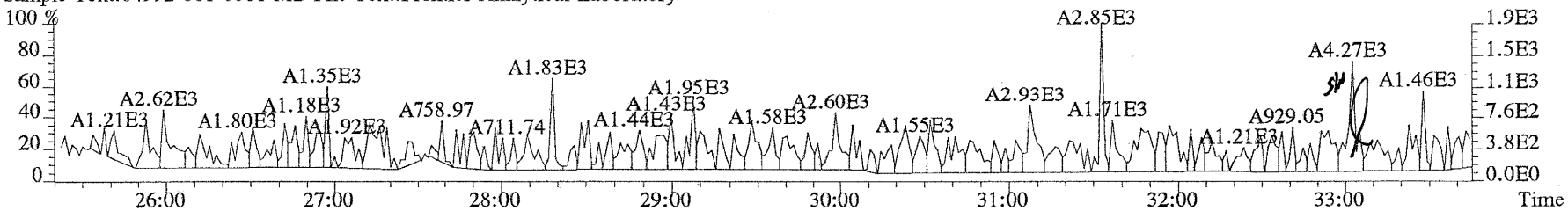


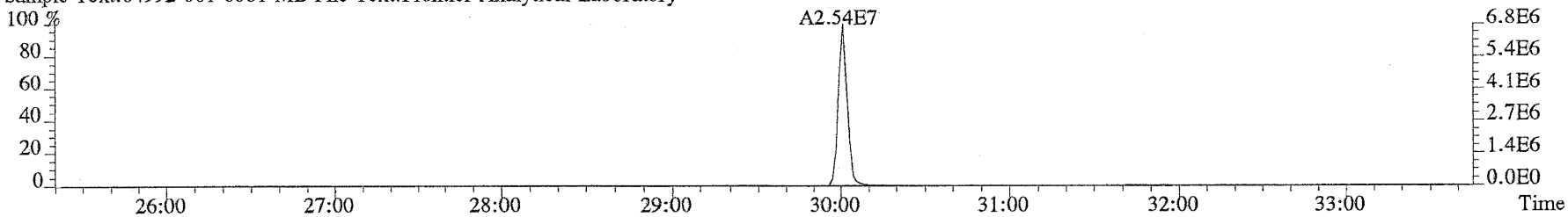
File:02AUG19Z #1-402 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-402 Acq: 2-AUG-2019 09:57:20 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:04992-001-0001-MB File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-402 Acq: 2-AUG-2019 09:57:20 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:04992-001-0001-MB File Text:Frontier Analytical Laboratory



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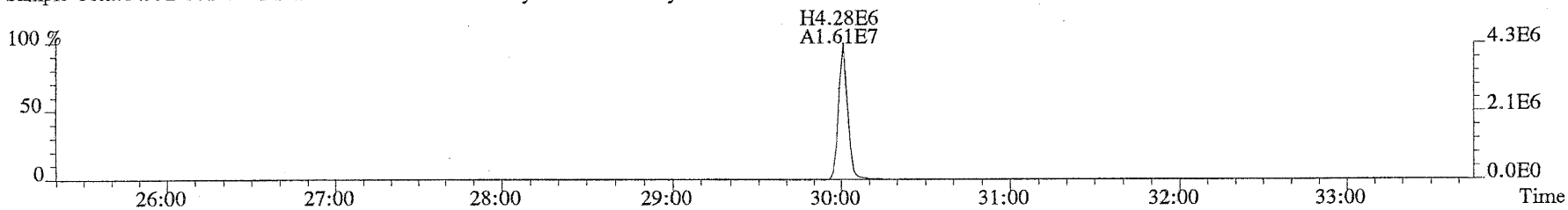
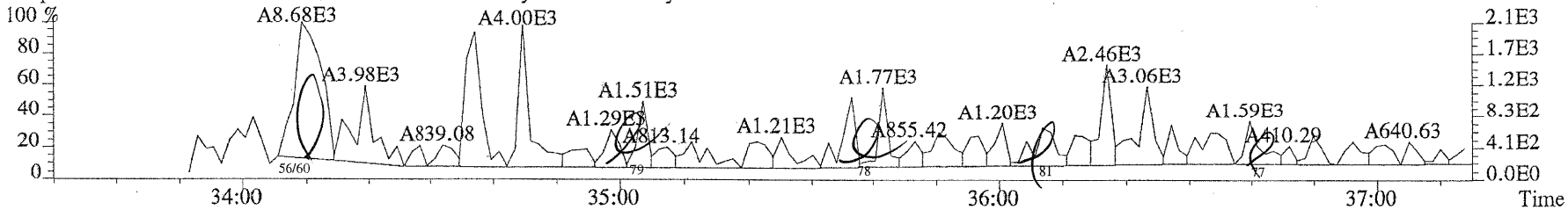
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-180 Acq: 2-AUG-2019 09:57:20 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:04992-001-0001-MB File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-180 Acq: 2-AUG-2019 09:57:20 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
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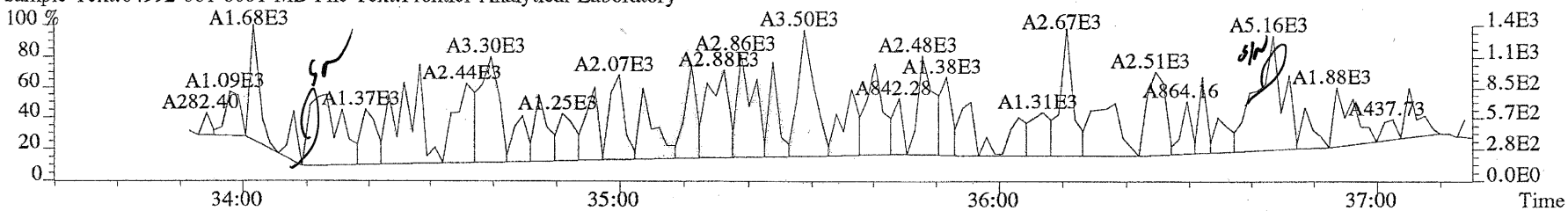
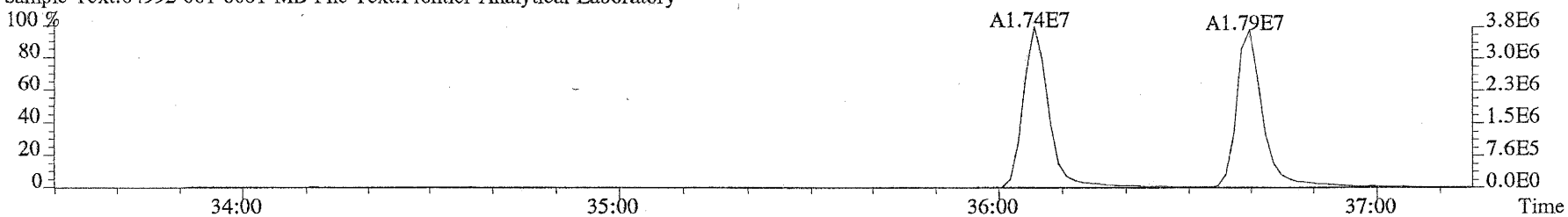
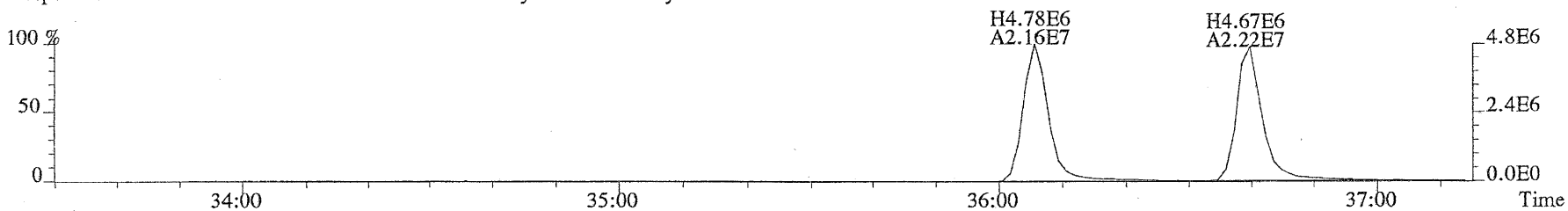


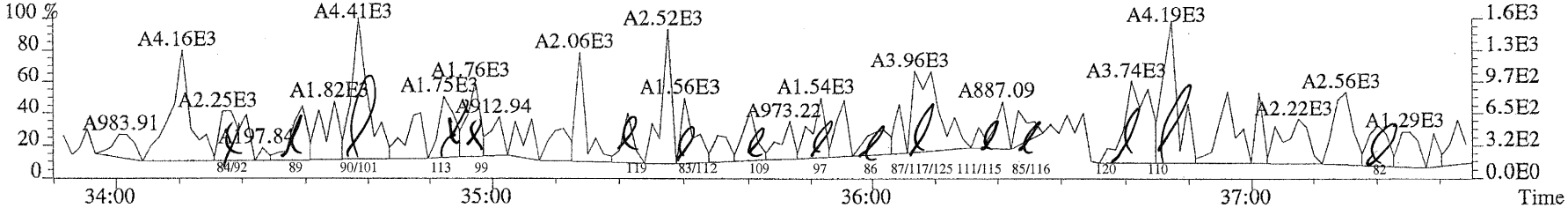
File:02AUG19Z #1-180 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



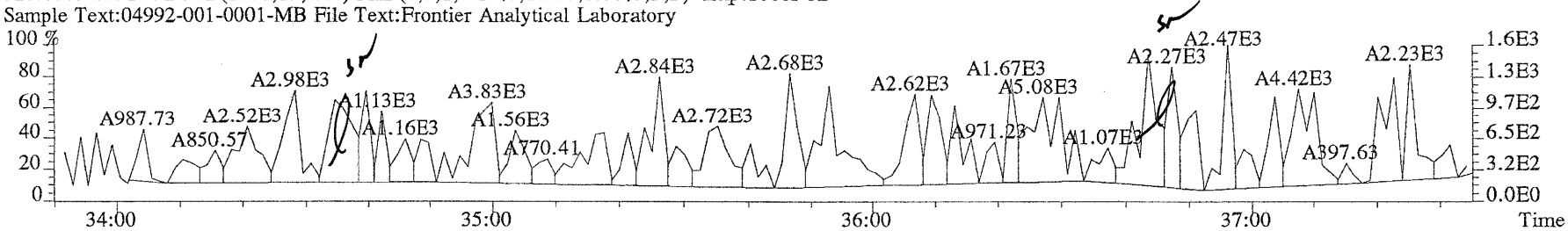
File:02AUG19Z #1-180 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



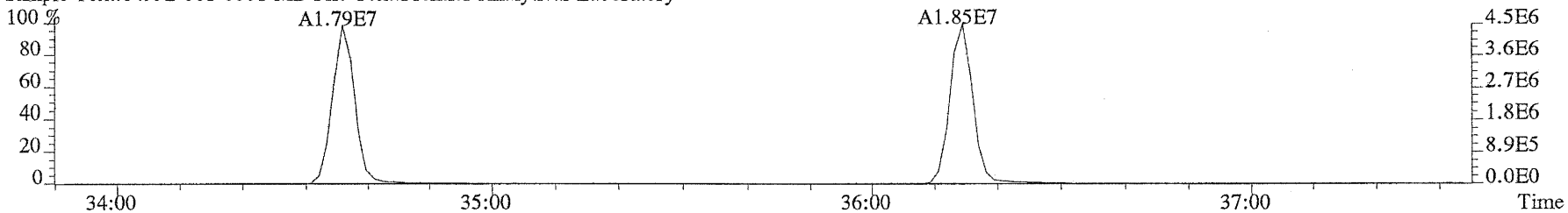
File:02AUG19Z #1-180 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



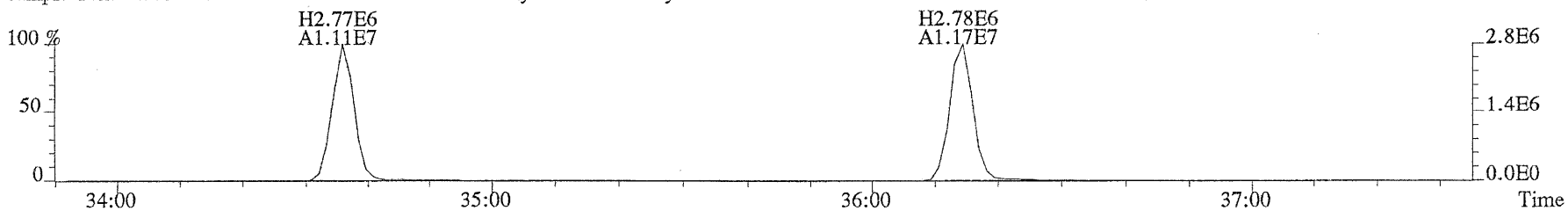
File:02AUG19Z #1-180 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



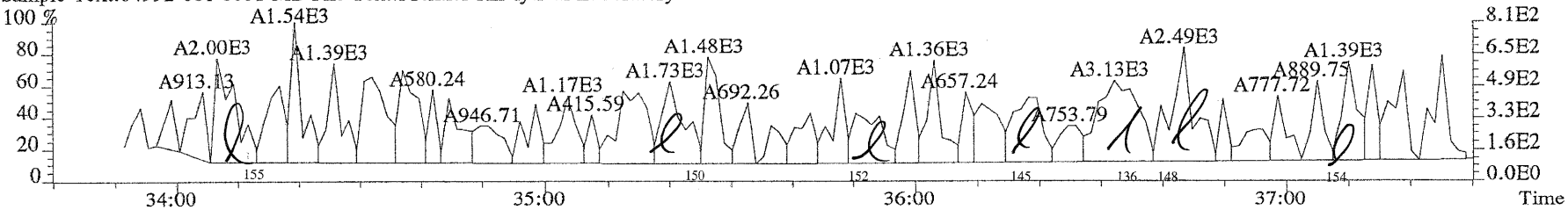
File:02AUG19Z #1-180 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



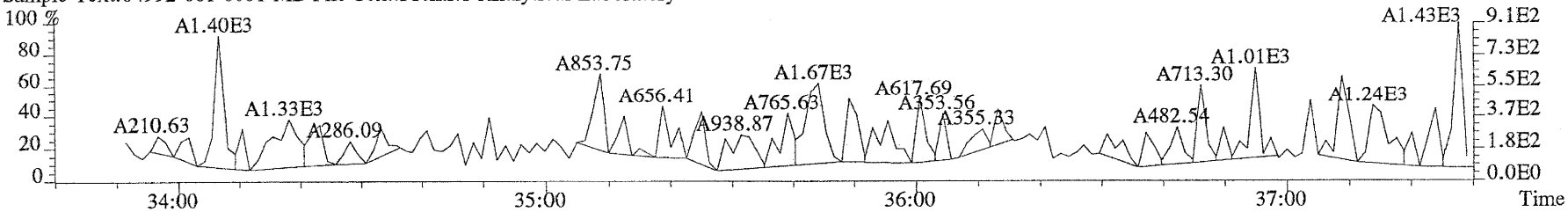
File:02AUG19Z #1-180 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



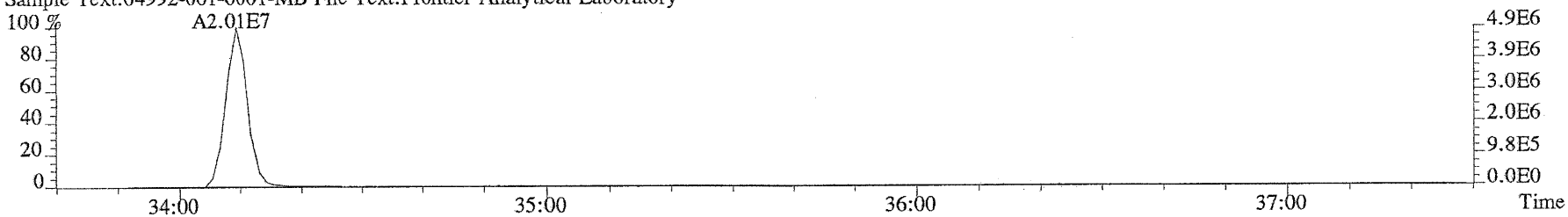
File:02AUG19Z #1-180 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



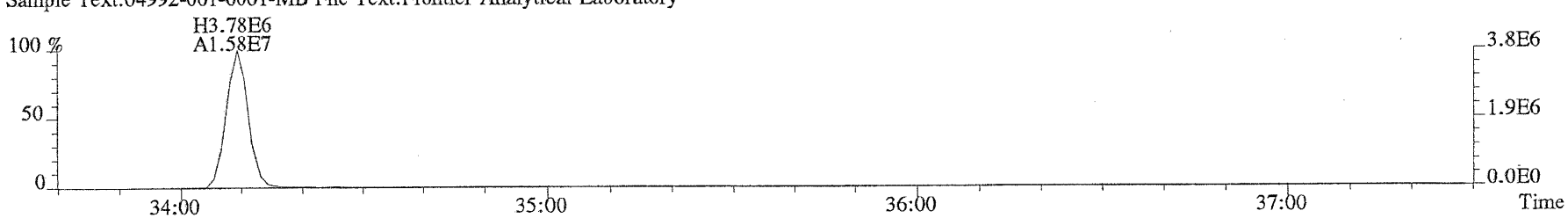
File:02AUG19Z #1-180 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



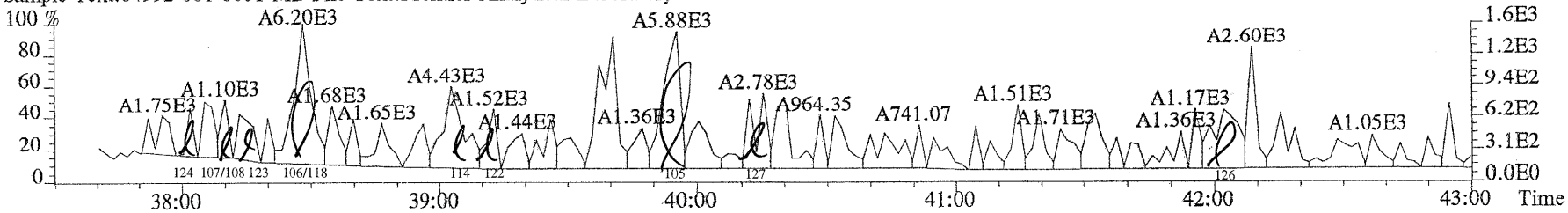
File:02AUG19Z #1-180 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



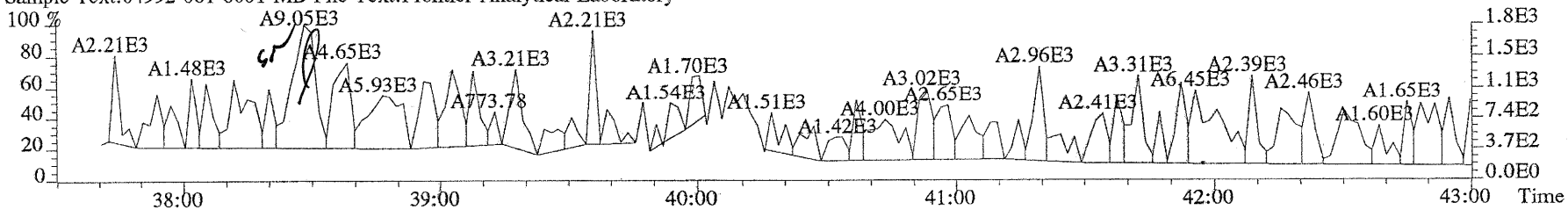
File:02AUG19Z #1-180 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-405 Acq: 2-AUG-2019 09:57:20 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:04992-001-0001-MB File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-405 Acq: 2-AUG-2019 09:57:20 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:04992-001-0001-MB File Text:Frontier Analytical Laboratory



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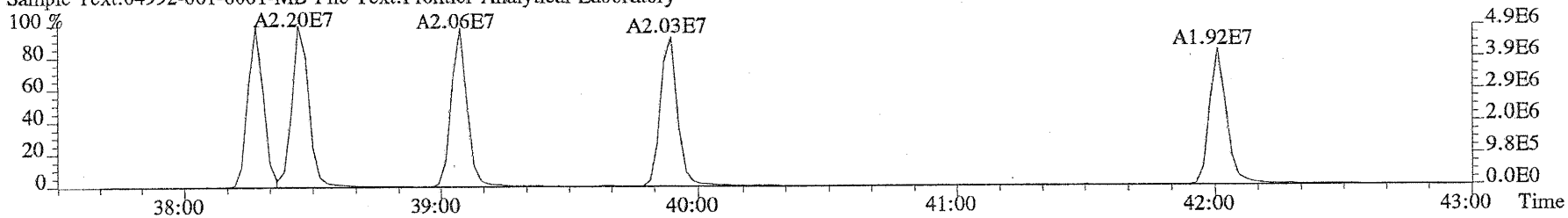
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



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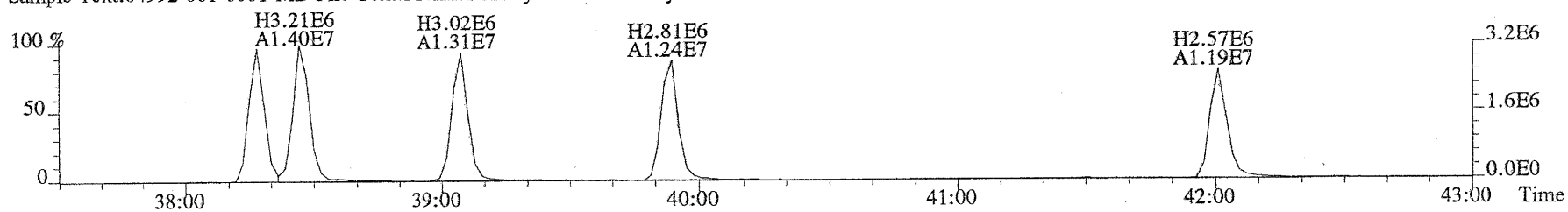
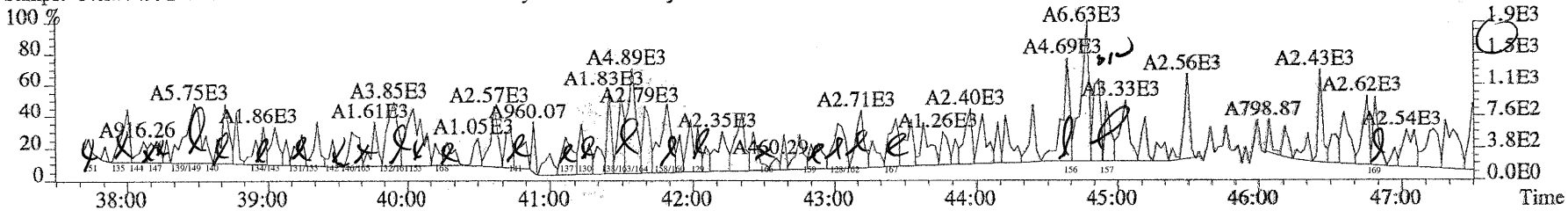
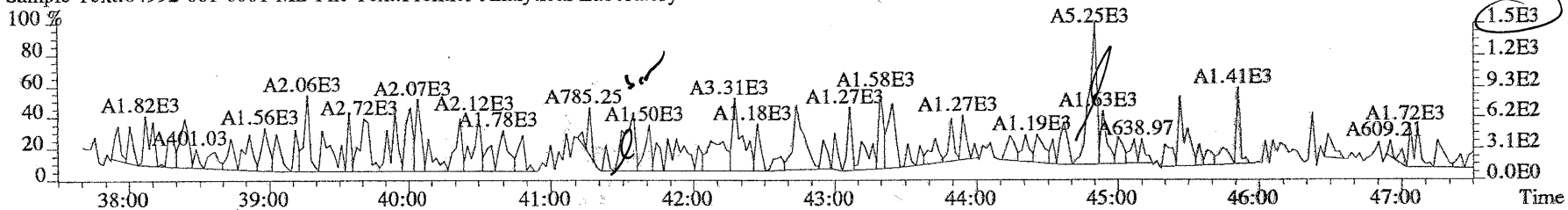
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-405 Acq: 2-AUG-2019 09:57:20 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:04992-001-0001-MB File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-405 Acq: 2-AUG-2019 09:57:20 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:04992-001-0001-MB File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-405 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
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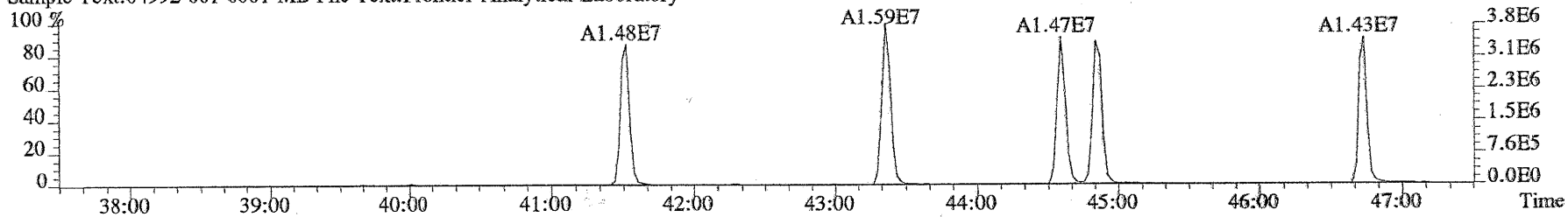
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



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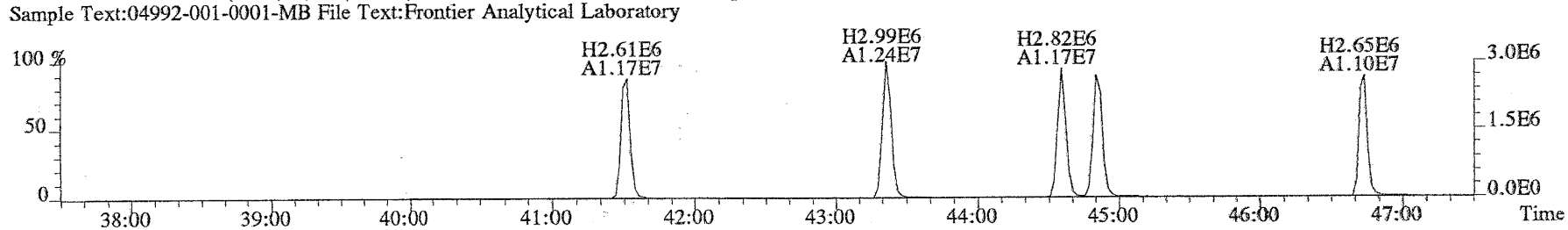
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



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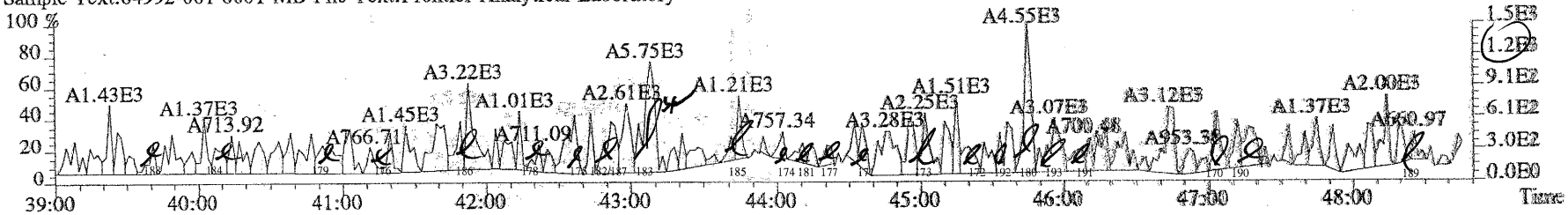
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



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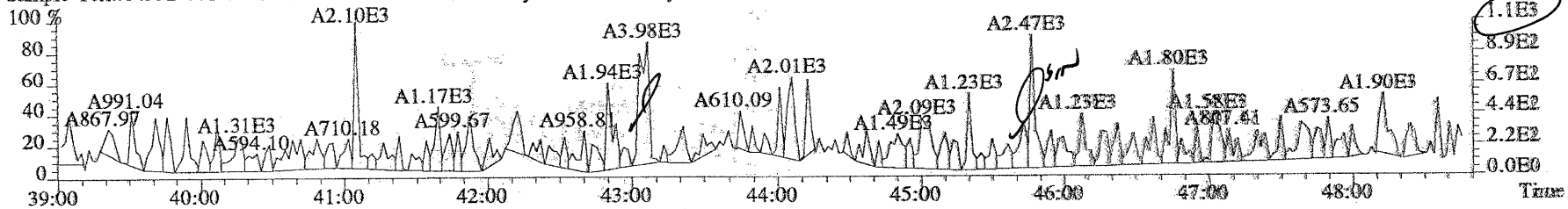
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



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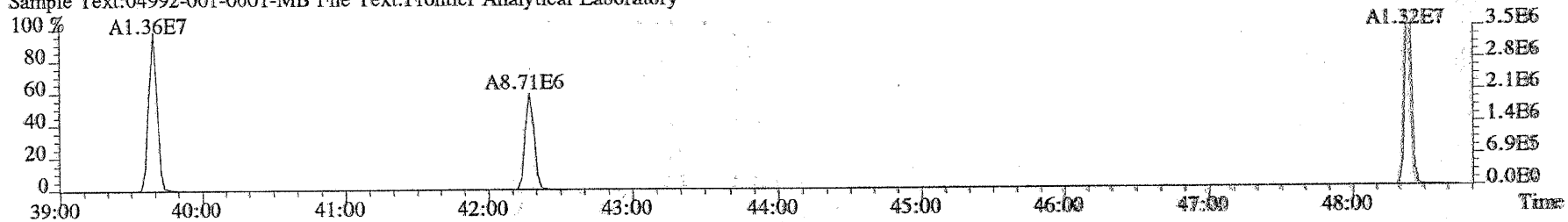
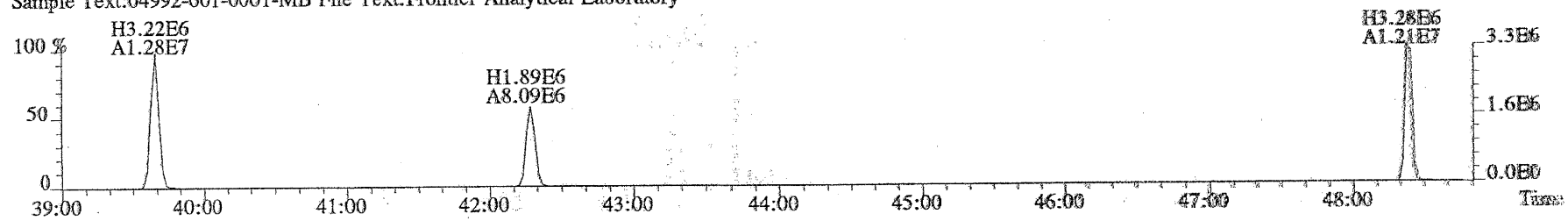
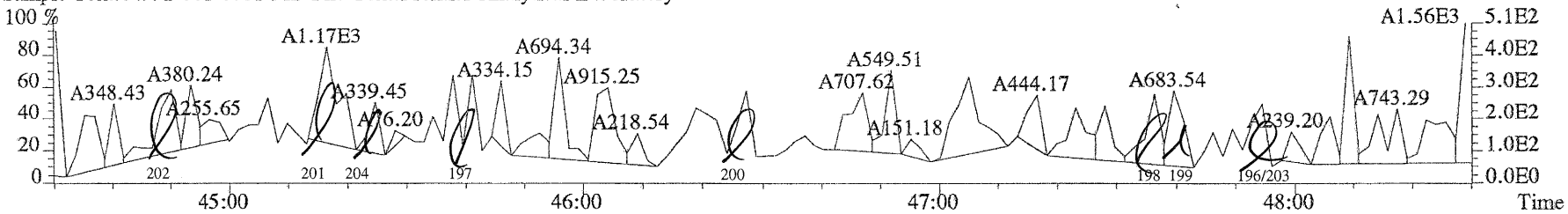
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



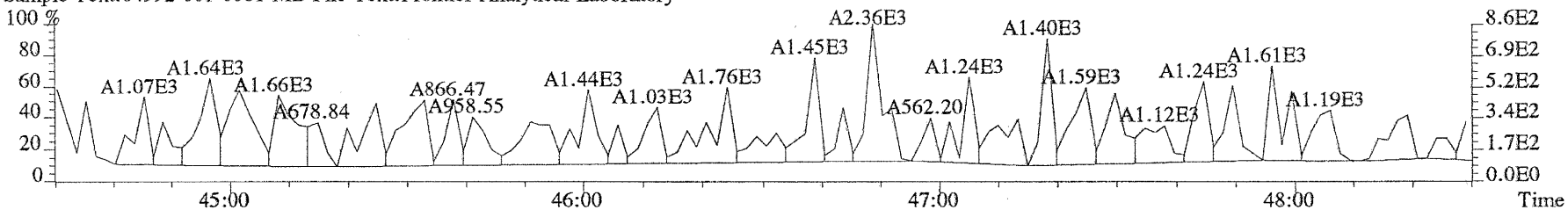
File:02AUG19Z #1-405 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



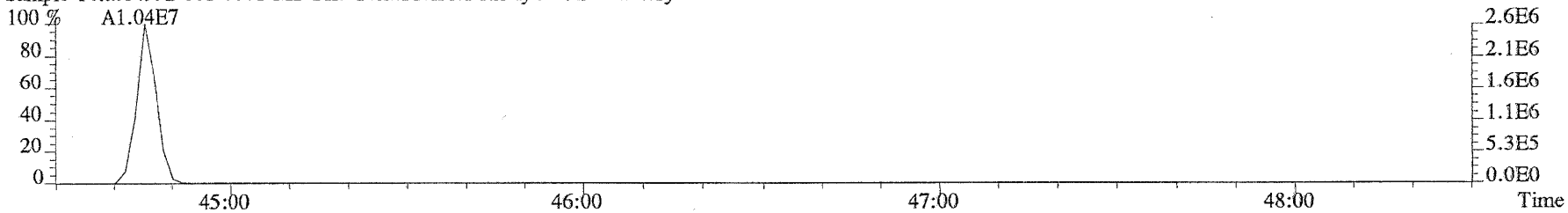
File:02AUG19Z #1-405 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



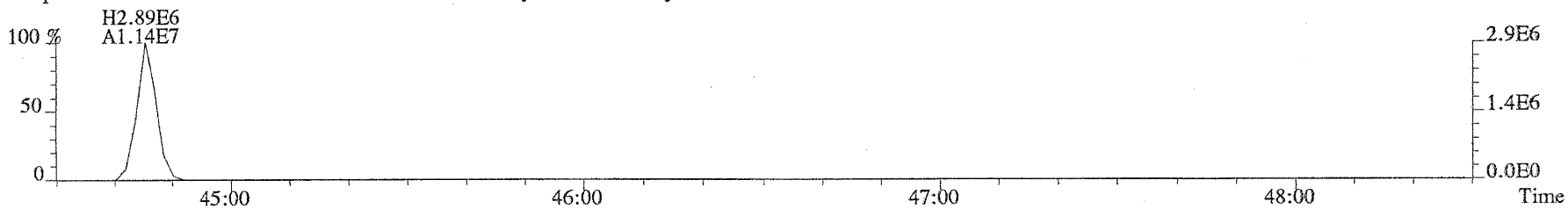
File:02AUG19Z #1-405 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



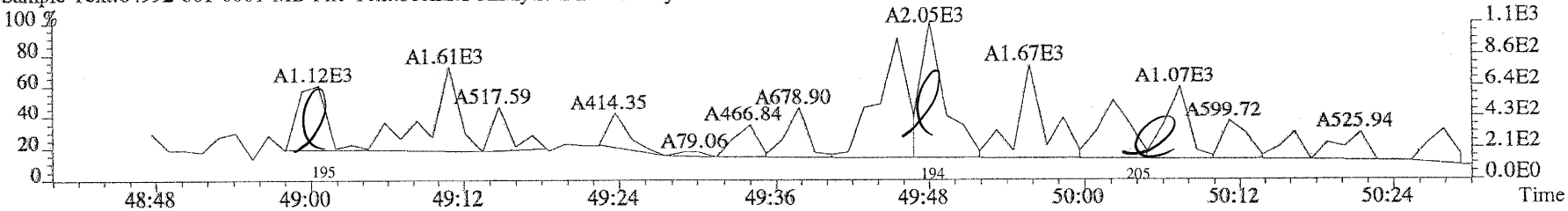
File:02AUG19Z #1-405 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



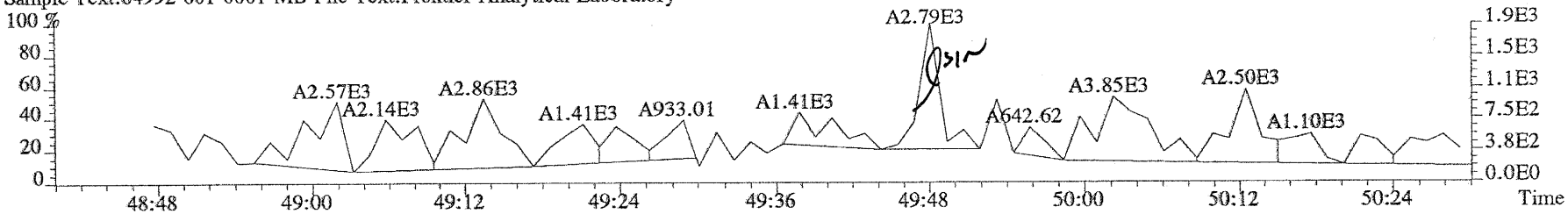
File:02AUG19Z #1-405 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



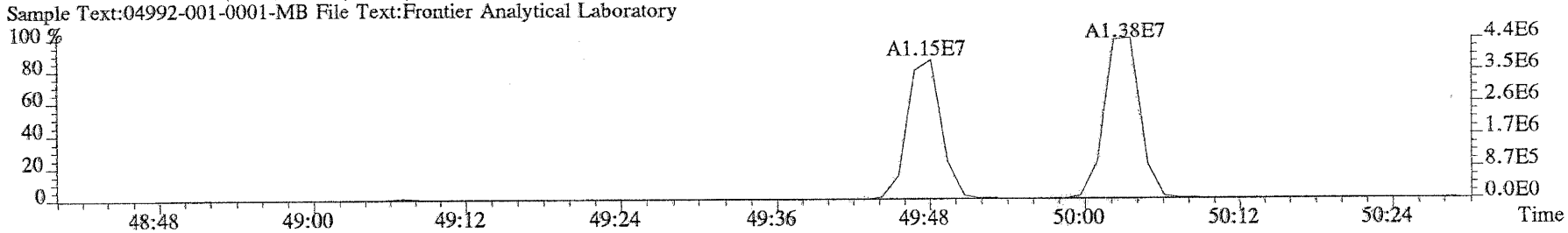
File:02AUG19Z #1-315 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



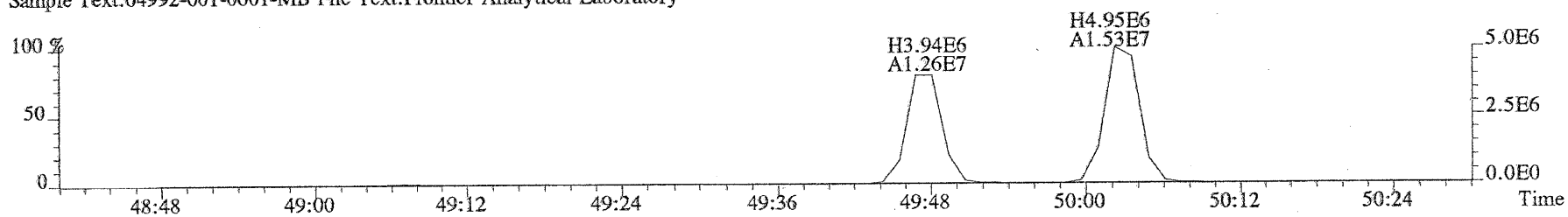
File:02AUG19Z #1-315 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



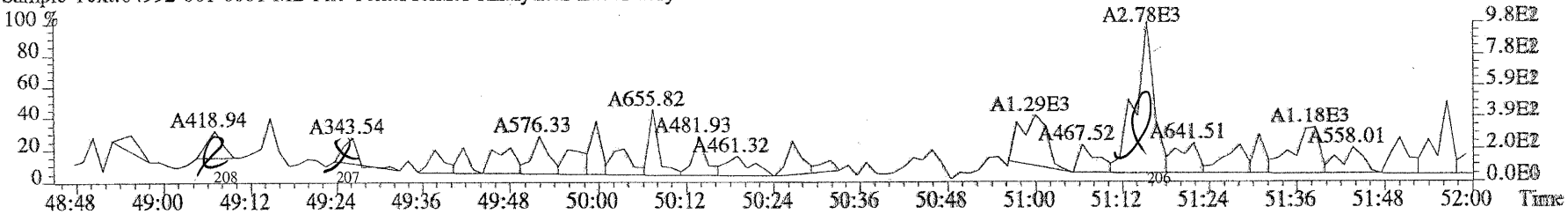
File:02AUG19Z #1-315 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



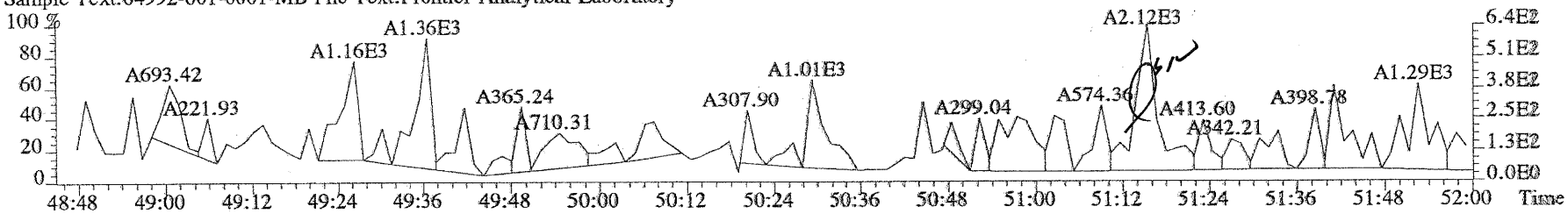
File:02AUG19Z #1-315 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



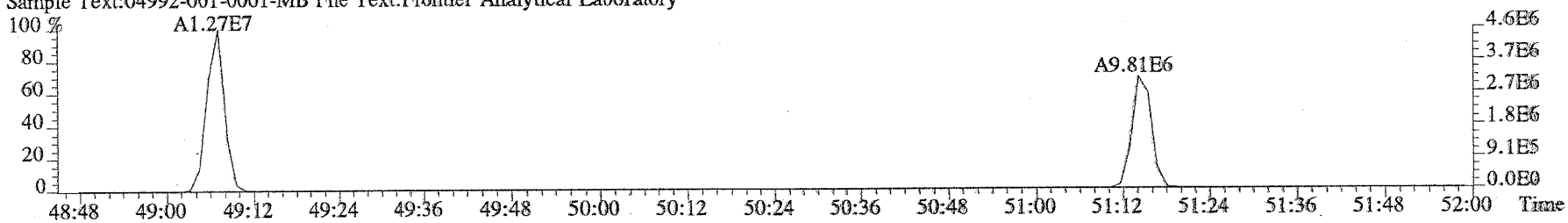
File:02AUG19Z #1-315 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



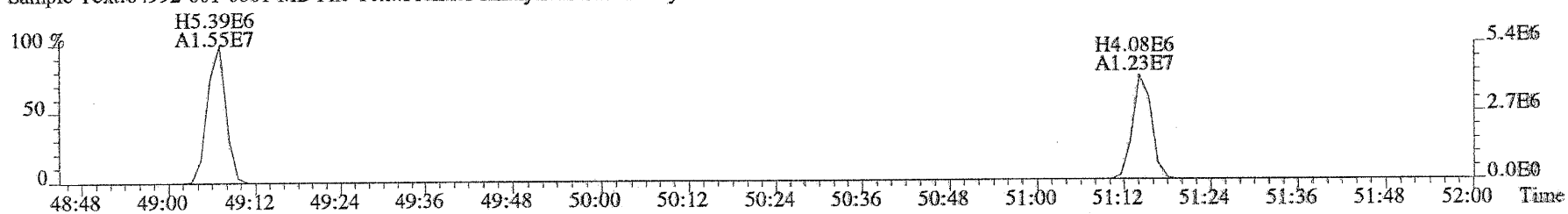
File:02AUG19Z #1-315 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



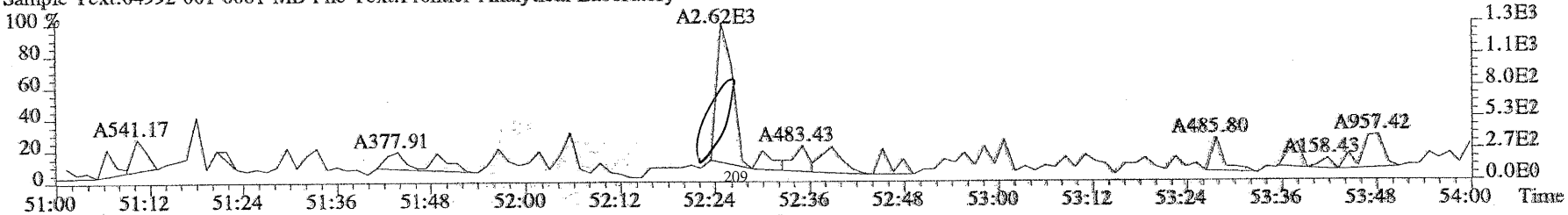
File:02AUG19Z #1-315 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



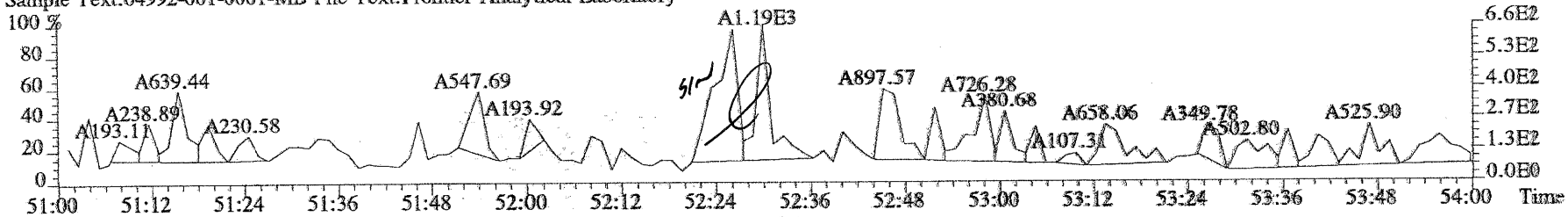
File:02AUG19Z #1-315 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



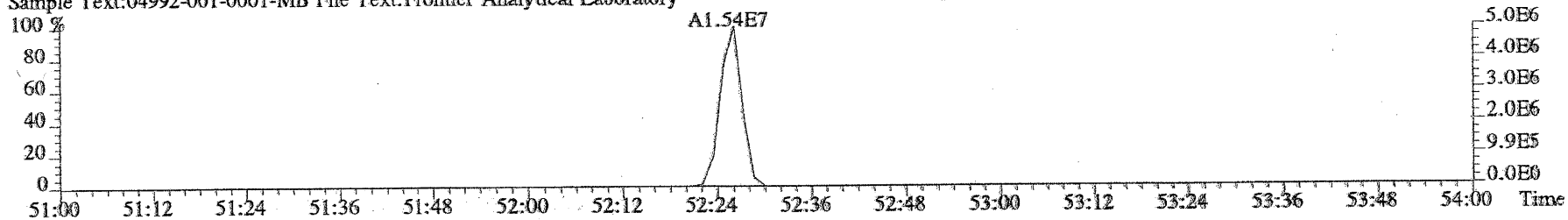
File:02AUG19Z #1-315 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



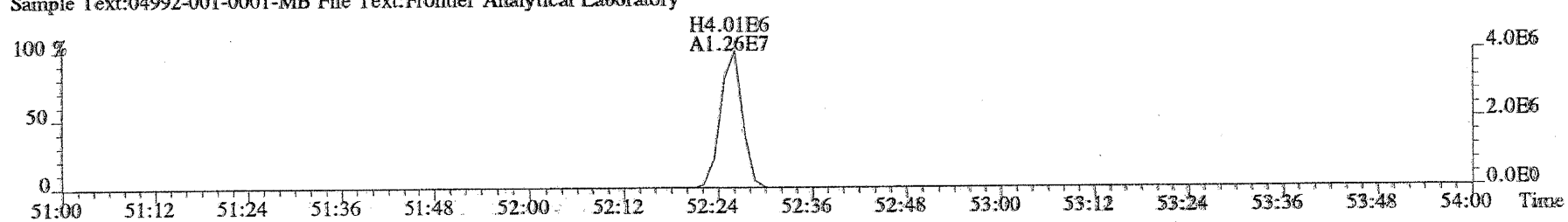
File:02AUG19Z #1-315 Acq: 2-AUG-2019 09:57:20 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-MB File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 09:57:20 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:04992-001-0001-MB File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 09:57:20 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:04992-001-0001-MB File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

FORM 8A

209 PCB ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory FAL ID: 04992-001-0001-OPR

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 02AUG19Z Sam:3

Ext. Date: 8/1/19 Shift: Day Analysis Date: 2-AUG-19 08:58:59

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	47.1	30.0 - 67.5
PCB-3	50	47.3	30.0 - 67.5
PCB-4	50	40.7	30.0 - 67.5
PCB-15	50	42.3	30.0 - 67.5
PCB-19	50	46.9	30.0 - 67.5
PCB-37	50	43.6	30.0 - 67.5
PCB-54	50	47.7	30.0 - 67.5
PCB-77	50	47.9	30.0 - 67.5
PCB-81	50	42.1	30.0 - 67.5
PCB-104	50	47.4	30.0 - 67.5
PCB-105	50	42.8	30.0 - 67.5
PCB-114	50	43.5	30.0 - 67.5
PCB-118	50	48.4	30.0 - 67.5
PCB-123	50	46.9	30.0 - 67.5
PCB-126	50	44.3	30.0 - 67.5
PCB-155	50	43.5	30.0 - 67.5
PCB-156	50	44.1	30.0 - 67.5
PCB-157	50	46.2	30.0 - 67.5
PCB-167	50	46.1	30.0 - 67.5
PCB-169	50	49.8	30.0 - 67.5
PCB-188	50	47.7	30.0 - 67.5
PCB-189	50	45.6	30.0 - 67.5
PCB-202	50	48.5	30.0 - 67.5
PCB-205	50	46.1	30.0 - 67.5
PCB-206	50	48.2	30.0 - 67.5
PCB-208	50	47.6	30.0 - 67.5
PCB-209	50	47.5	30.0 - 67.5

Analyst: Date: 8/5/19

Frontier Analytical Laboratory

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

Lab Name: Frontier Analytical Laboratory FAL ID: 04992-001-0001-OPR

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 02AUG19Z Sam:3

Ext. Date: 8/1/19 Shift: Day Analysis Date: 2-AUG-19 08:58:59

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	83.5	15.0 - 145
13C-PCB-3	100	87.2	15.0 - 145
13C-PCB-4	100	88.4	15.0 - 145
13C-PCB-15	100	90.9	15.0 - 145
13C-PCB-19	100	95.5	15.0 - 145
13C-PCB-37	100	99.0	15.0 - 145
13C-PCB-54	100	99.5	15.0 - 145
13C-PCB-77	100	105	40.0 - 145
13C-PCB-81	100	105	40.0 - 145
13C-PCB-104	100	107	40.0 - 145
13C-PCB-105	100	93.5	40.0 - 145
13C-PCB-114	100	97.1	40.0 - 145
13C-PCB-118	100	96.2	40.0 - 145
13C-PCB-123	100	99.5	40.0 - 145
13C-PCB-126	100	95.3	40.0 - 145
13C-PCB-155	100	123	40.0 - 145
13C-PCB-156	100	97.9	40.0 - 145
13C-PCB-157	100	96.5	40.0 - 145
13C-PCB-167	100	99.7	40.0 - 145
13C-PCB-169	100	90.9	40.0 - 145
13C-PCB-188	100	95.5	40.0 - 145
13C-PCB-189	100	102	40.0 - 145
13C-PCB-202	100	104	40.0 - 145
13C-PCB-205	100	98.1	40.0 - 145
13C-PCB-206	100	93.4	40.0 - 145
13C-PCB-208	100	92.9	40.0 - 145
13C-PCB-209	100	93.2	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	96.3	15.0 - 145
13C-PCB-111	100	99.0	40.0 - 145
13C-PCB-178	100	101	40.0 - 145

Analyst: [signature] Date: 8/5/19

FAL ID: 04992-001-0001-OPR Filename: 02AUG19Z Sam:3 Acquired: 2-AUG-19 08:58:59 ICal: DAILY209FAL4-8-2-19
Client ID: OPR ConCal: ST080219Z1 EndCal: ST080219Z2
Results: 12511-1 GC Column: DB1MS Amount: 1.000

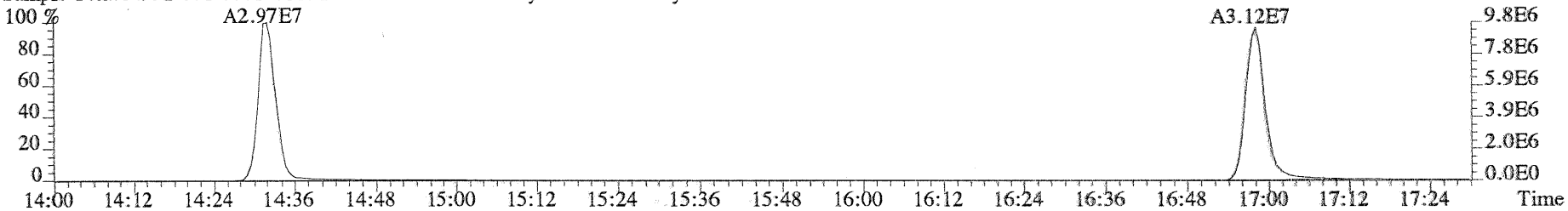
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.91e+07	3.16 y	14:32	1.16	47.1		2.50	-	-	*	
13C-PCB-1	7.16e+07	3.18 y	14:31	0.90	83.5		2.50				83.5
PCB-3	4.12e+07	3.11 y	16:58	1.14	47.3		2.50	-	-	*	
13C-PCB-3	7.63e+07	3.30 y	16:57	0.92	87.2		2.50				87.2
PCB-4	2.76e+07	1.57 y	18:12	1.24	40.7		2.50	-	-	*	
13C-PCB-4	5.45e+07	1.56 y	18:10	0.65	88.4		2.50				88.4
PCB-15	4.08e+07	1.51 y	23:44	1.14	42.3		2.50	-	-	*	
13C-PCB-15	8.46e+07	1.69 y	23:42	0.98	90.9		2.50				90.9
PCB-19	2.39e+07	1.06 y	22:05	1.22	46.9		2.50	-	-	*	
13C-PCB-19	4.16e+07	1.10 y	22:03	0.46	95.5		2.50				95.5
13C-PCB-9	9.49e+07	1.59 y	19:51	-	55.7		2.50				
PCB-37	3.11e+07	1.04 y	30:22	1.13	43.6		2.50	-	-	*	
13C-PCB-37	6.30e+07	1.06 y	30:21	1.48	99.0		2.50				99.0
PCB-54	3.09e+07	0.80 y	25:36	1.26	47.7		2.50	-	-	*	
13C-PCB-54	5.12e+07	0.85 y	25:35	1.20	99.5		2.50				99.5
PCB-104	2.22e+07	1.57 y	30:02	1.11	47.4		2.50	-	-	*	
13C-PCB-104	4.23e+07	1.60 y	30:01	0.92	107		2.50				107
13C-PCB-28	7.57e+07	1.06 y	26:40	1.83	96.3		2.50				96.3
13C-PCB-52	4.30e+07	0.83 y	28:55	-	53.1		2.50				
PCB-81	2.16e+07	0.80 y	36:07	1.24	42.1		2.50	-	-	*	
13C-PCB-81	4.15e+07	0.81 y	36:06	1.38	105		2.50				105
PCB-77	2.17e+07	0.79 y	36:41	1.05	47.9		2.50	-	-	*	
13C-PCB-77	4.32e+07	0.81 y	36:40	1.43	105		2.50				105
PCB-155	1.95e+07	1.21 y	34:12	1.03	43.5		2.50	-	-	*	
13C-PCB-155	4.35e+07	1.28 y	34:09	1.23	123		2.50				123
13C-PCB-111	3.09e+07	1.61 y	36:14	1.08	99.0		2.50				99.0
13C-PCB-101	2.88e+07	1.62 y	34:36	-	46.4		2.50				
PCB-123	1.67e+07	1.54 y	38:18	1.05	46.9		2.50	-	-	*	
13C-PCB-123	3.38e+07	1.58 y	38:17	1.31	99.5		2.50				99.5
PCB-118	1.89e+07	1.53 y	38:28	1.04	48.4		2.50	-	-	*	
13C-PCB-118	3.75e+07	1.61 y	38:27	1.51	96.2		2.50				96.2
PCB-114	1.73e+07	1.52 y	39:06	1.11	43.5		2.50	-	-	*	
13C-PCB-114	3.57e+07	1.60 y	39:05	1.42	97.1		2.50				97.1
PCB-105	1.69e+07	1.56 y	39:54	1.13	42.8		2.50	-	-	*	
13C-PCB-105	3.48e+07	1.57 y	39:54	1.44	93.5		2.50				93.5
PCB-126	1.60e+07	1.53 y	42:02	1.08	44.3		2.50	-	-	*	
13C-PCB-126	3.36e+07	1.58 y	42:01	1.36	95.3		2.50				95.3
PCB-167	1.61e+07	1.26 y	43:23	1.11	46.1		2.50	-	-	*	
13C-PCB-167	3.13e+07	1.32 y	43:23	1.22	99.7		2.50				99.7
PCB-156	1.64e+07	1.25 y	44:37	1.20	44.1		2.50	-	-	*	
13C-PCB-156	3.11e+07	1.29 y	44:35	1.23	97.9		2.50				97.9
PCB-157	1.60e+07	1.24 y	44:52	1.11	46.2		2.50	-	-	*	
13C-PCB-157	3.12e+07	1.30 y	44:52	1.25	96.5		2.50				96.5
PCB-169	1.58e+07	1.29 y	46:44	1.05	49.8		2.50	-	-	*	
13C-PCB-169	3.01e+07	1.33 y	46:44	1.28	90.9		2.50				90.9
PCB-188	1.32e+07	1.10 y	39:41	1.07	47.7		2.50	-	-	*	
13C-PCB-188	2.59e+07	1.04 y	39:39	1.05	95.5		2.50				95.5
PCB-189	1.35e+07	1.07 y	48:24	1.06	45.6		2.50	-	-	*	
13C-PCB-189	2.80e+07	1.05 y	48:24	1.06	102		2.50				102
PCB-202	1.16e+07	0.91 y	44:47	1.05	48.5		2.50	-	-	*	
13C-PCB-202	2.28e+07	0.90 y	44:45	0.85	104		2.50				104
13C-PCB-178	1.73e+07	1.06 y	42:17	0.66	101		2.50				101
13C-PCB-138	2.58e+07	1.32 y	41:31	-	50.9		2.50				

FAL ID: 04992-001-0001-OPR Filename: 02AUG19Z Sam:3 Acquired: 2-AUG-19 08:58:59 ICal: DAILY209FAL4-8-2-19
Client ID: OPR ConCal: ST080219Z1 EndCal: ST080219Z2
Results: 12511-1 GC Column: DB1MS Amount: 1.000

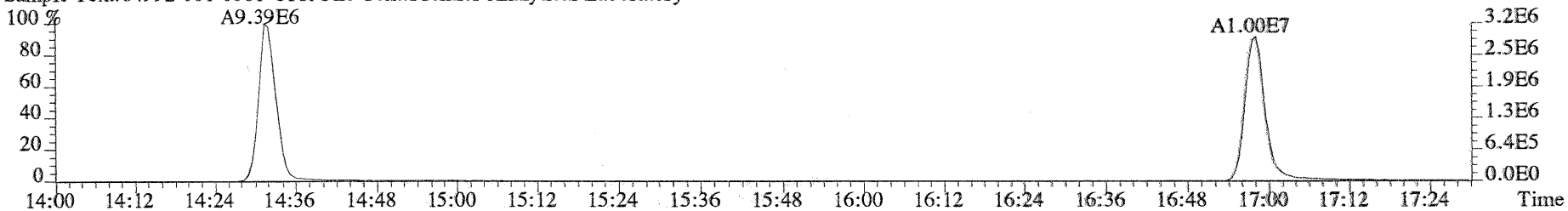
PCB-205	1.76e+07	0.89	y	50:04	1.10	46.1	2.50	-	-	*	
13C-PCB-205	3.46e+07	0.89	y	50:04	1.30	98.1	2.50				98.1
PCB-208	1.52e+07	1.42	y	49:08	1.06	47.6	2.50	-	-	*	
13C-PCB-208	3.02e+07	0.82	y	49:07	1.20	92.9	2.50				92.9
PCB-206	1.23e+07	1.39	y	51:15	1.07	48.2	2.50	-	-	*	
13C-PCB-206	2.37e+07	0.81	y	51:15	0.94	93.4	2.50				93.4
PCB-209	1.63e+07	1.20	y	52:27	1.12	47.5	2.50	-	-	*	
13C-PCB-209	3.07e+07	1.19	y	52:26	1.22	93.2	2.50				93.2
13C-PCB-194	2.71e+07	0.91	y	49:48	-	52.8	2.50				

Analyst: _____ Date: 8/5/19

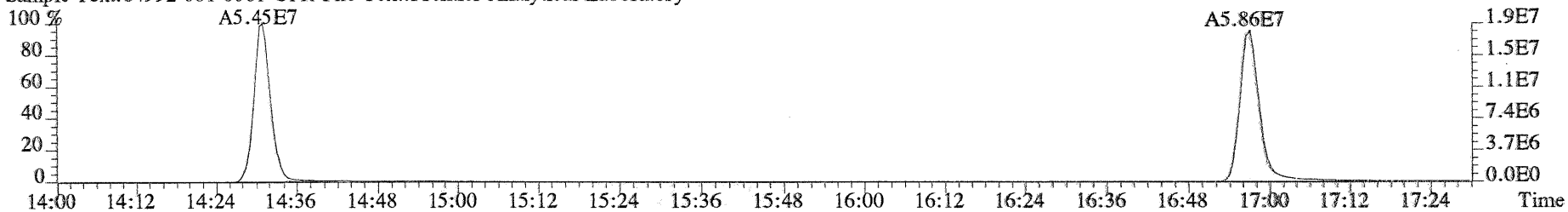
File:02AUG19Z #1-784 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



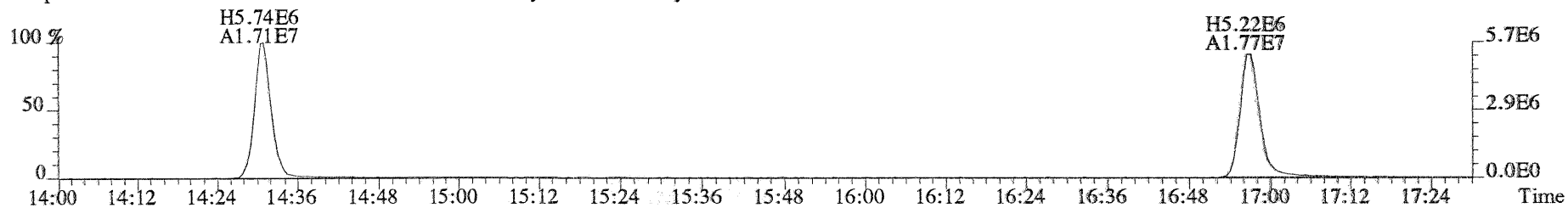
File:02AUG19Z #1-784 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



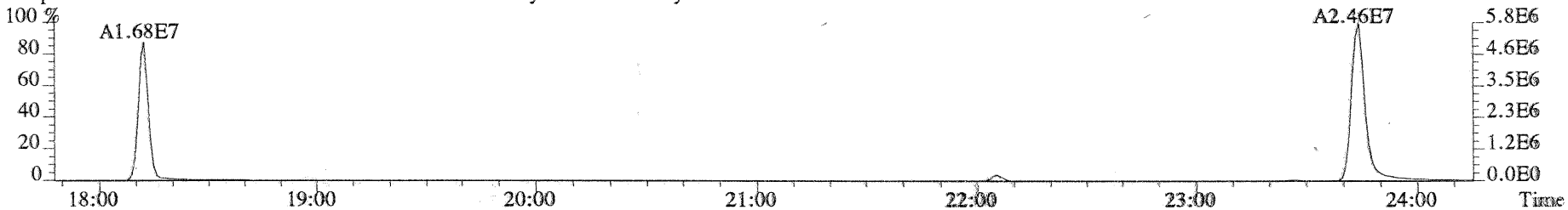
File:02AUG19Z #1-784 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



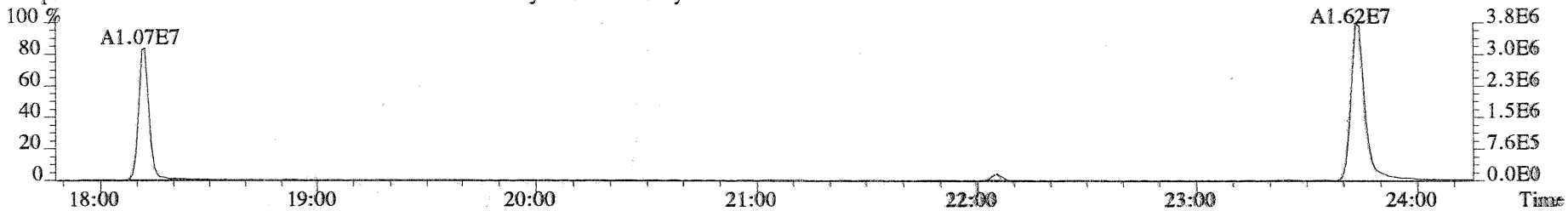
File:02AUG19Z #1-784 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



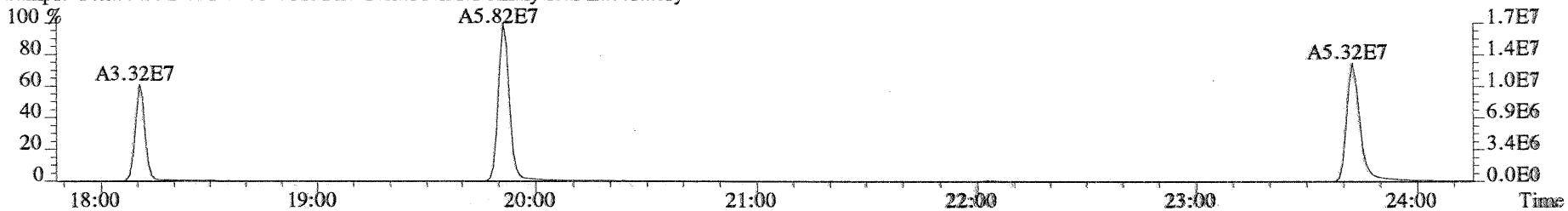
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



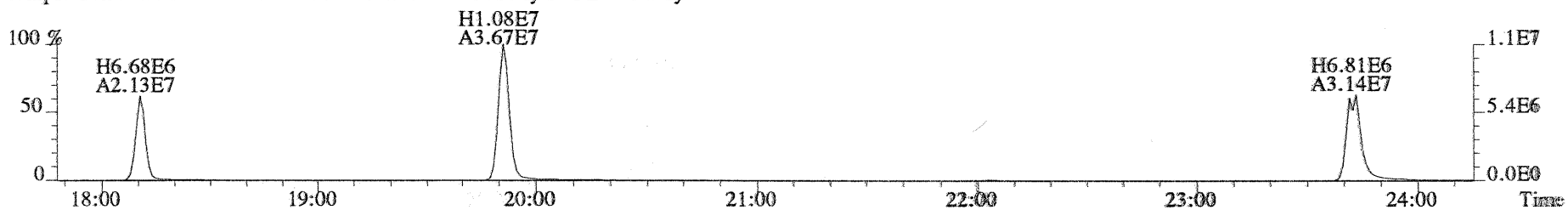
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



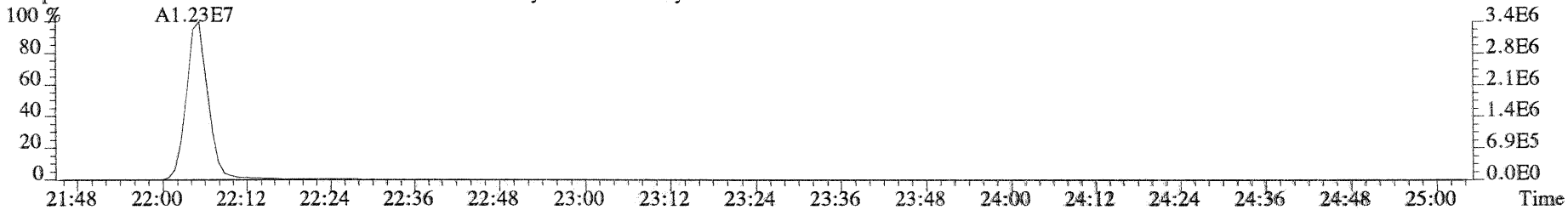
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



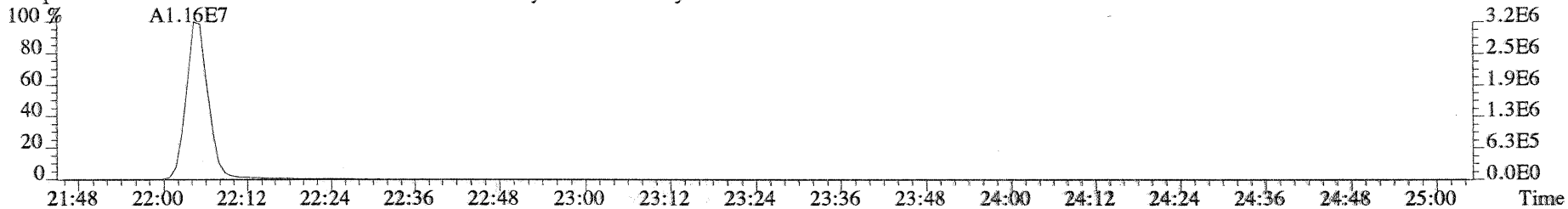
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



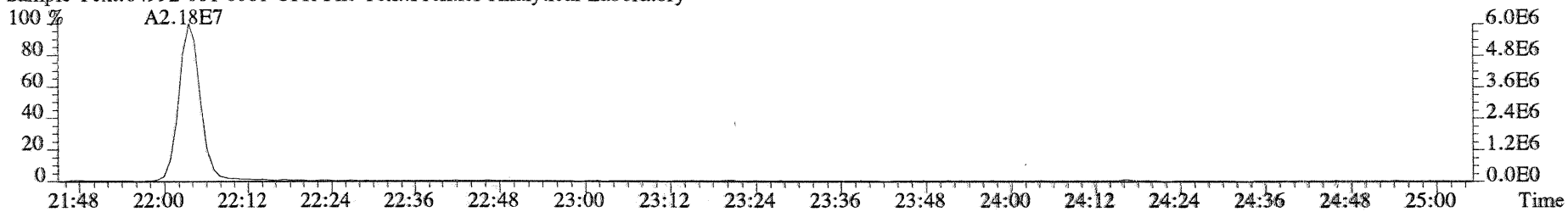
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



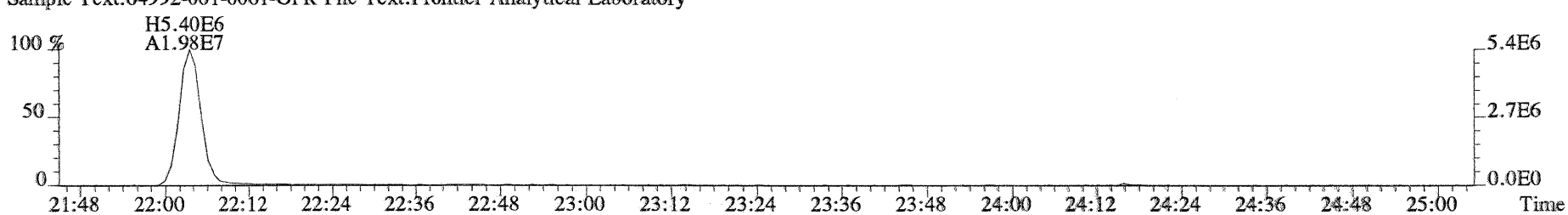
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



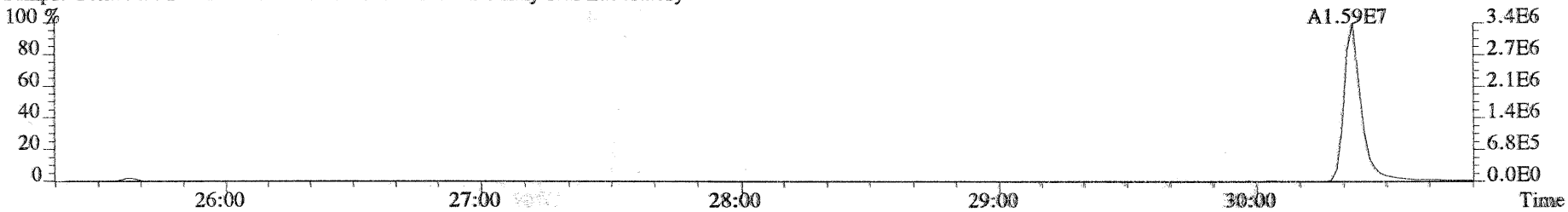
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



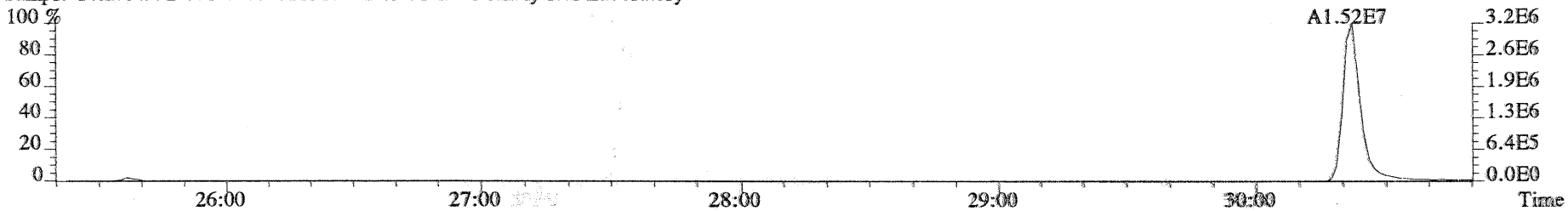
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



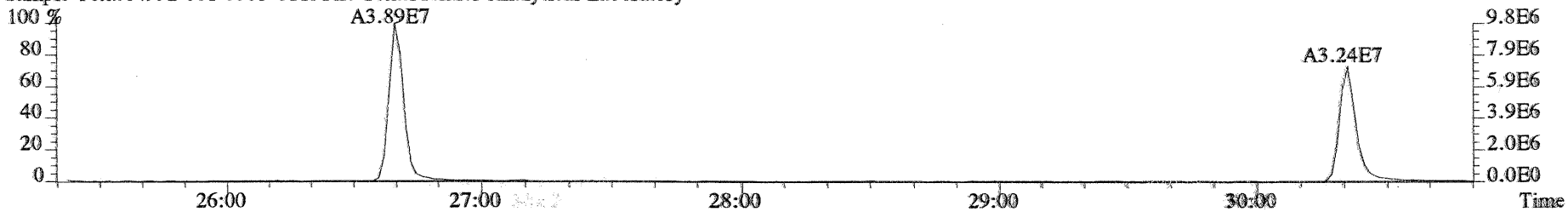
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



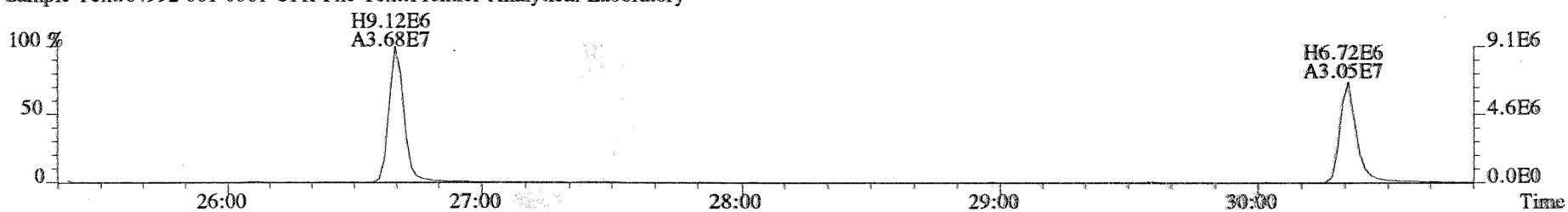
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



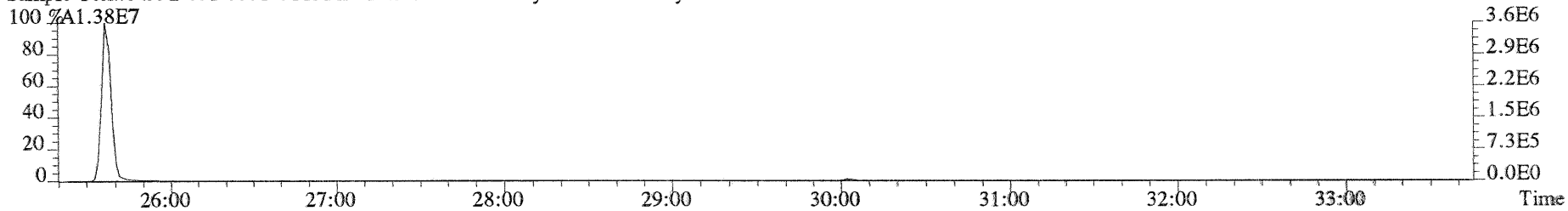
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



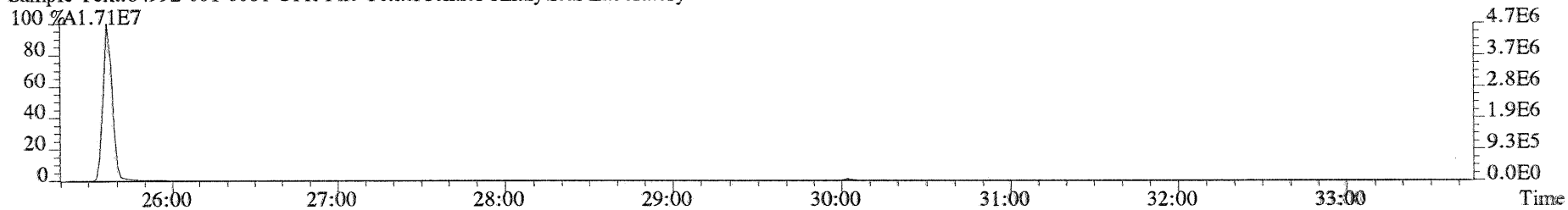
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



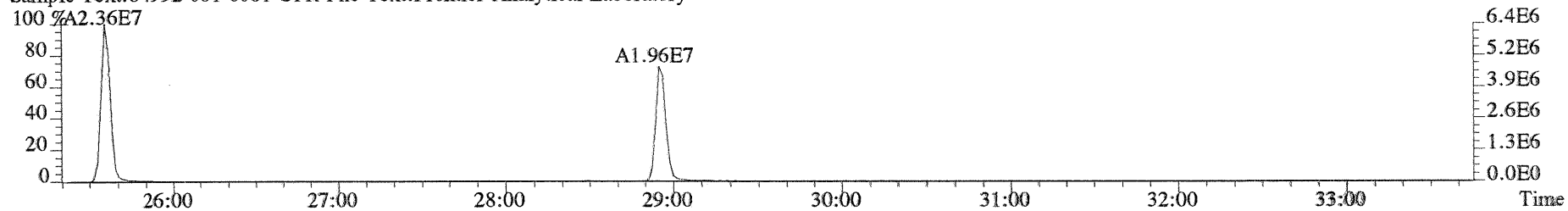
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



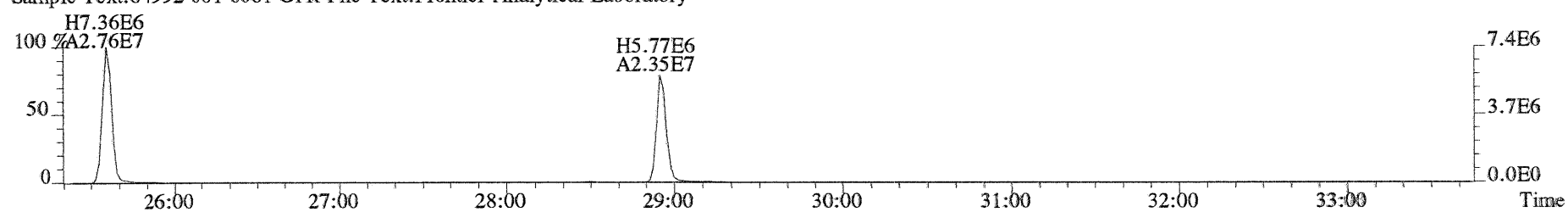
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



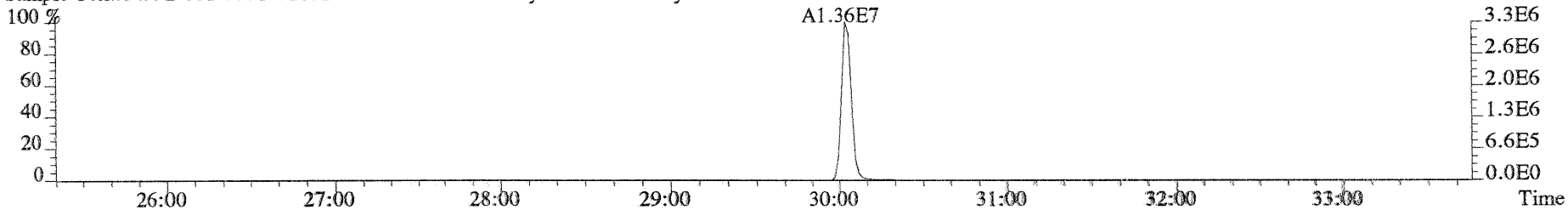
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



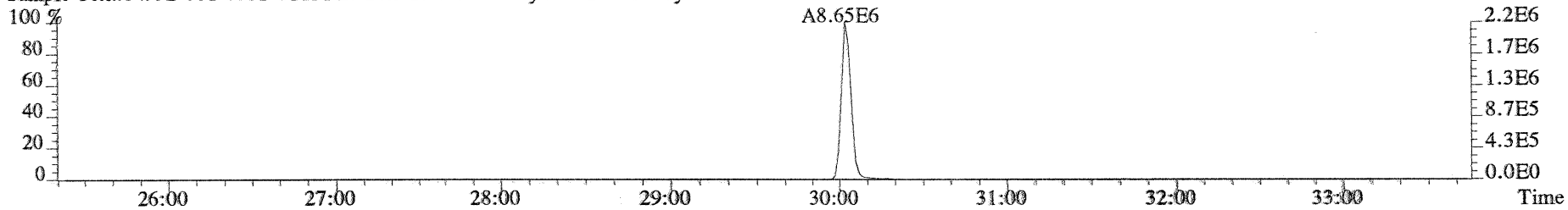
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



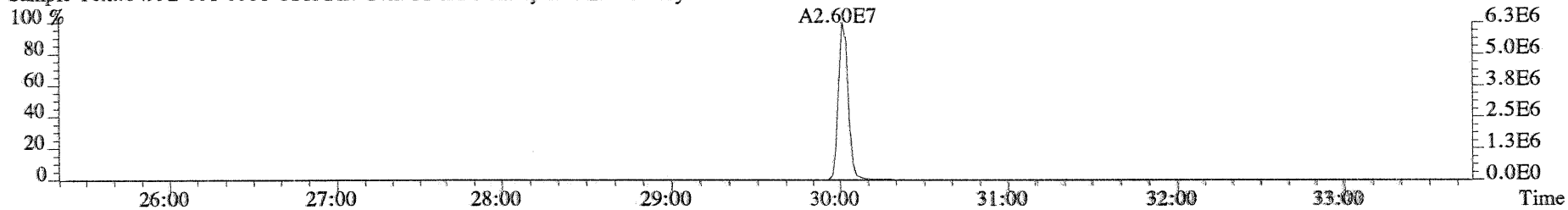
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



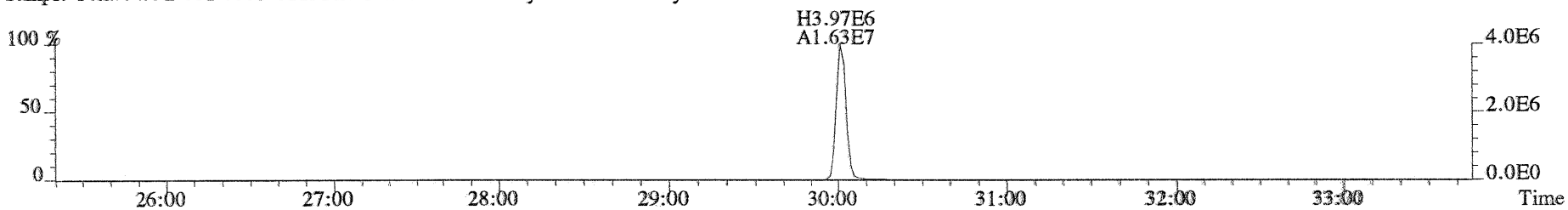
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



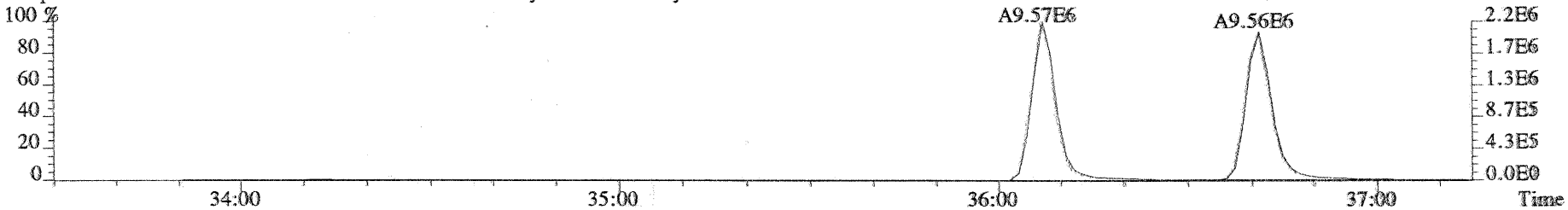
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



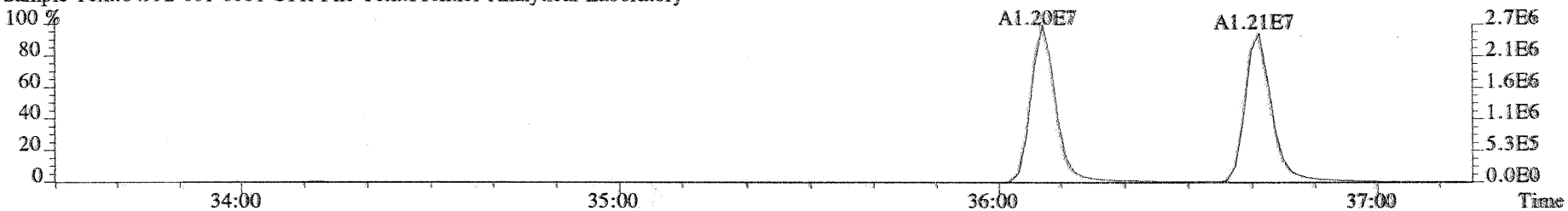
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



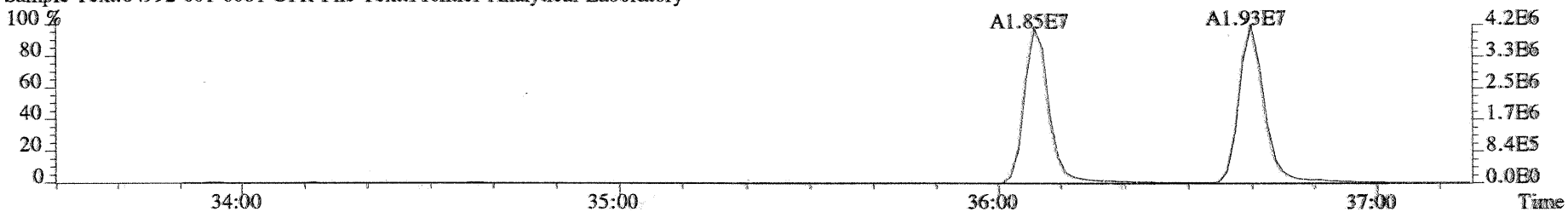
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



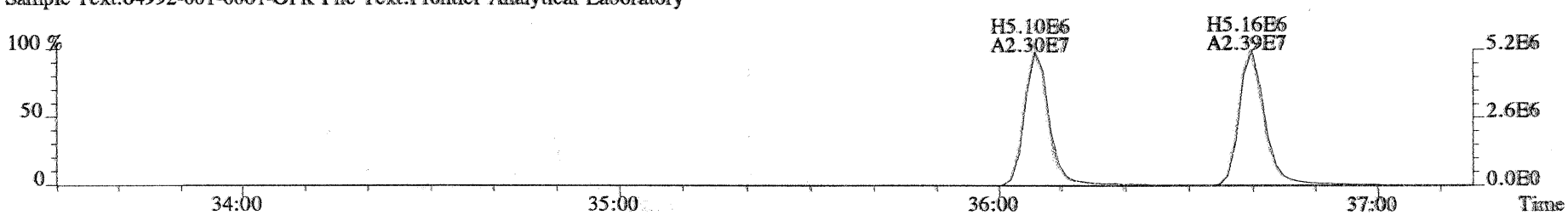
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



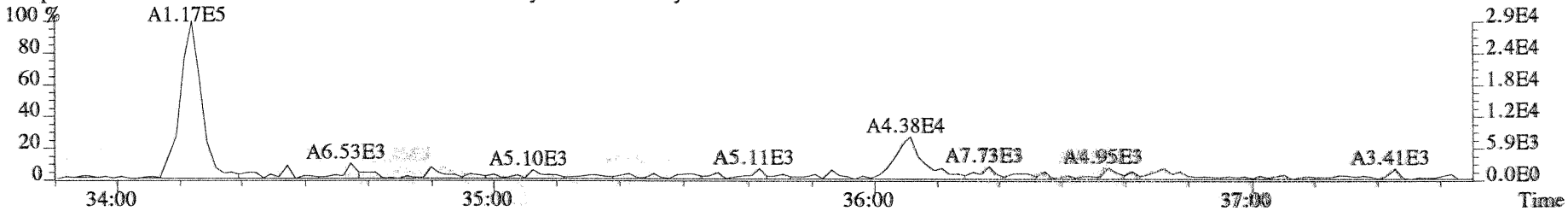
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



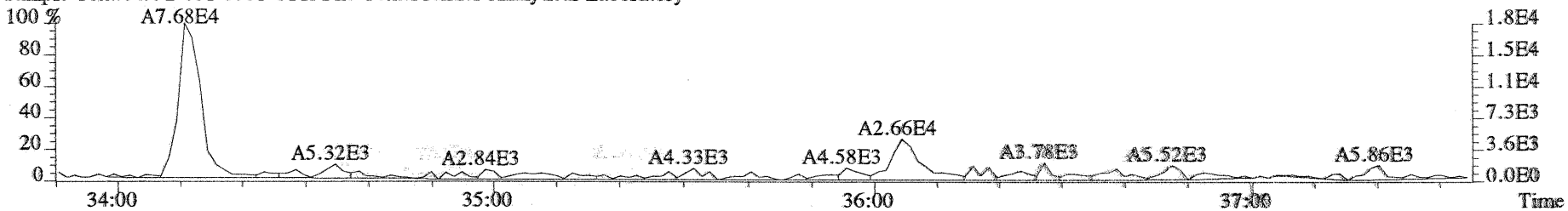
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



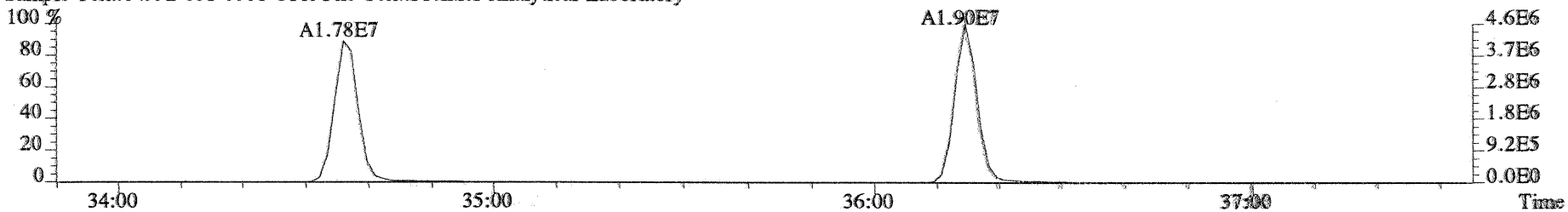
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



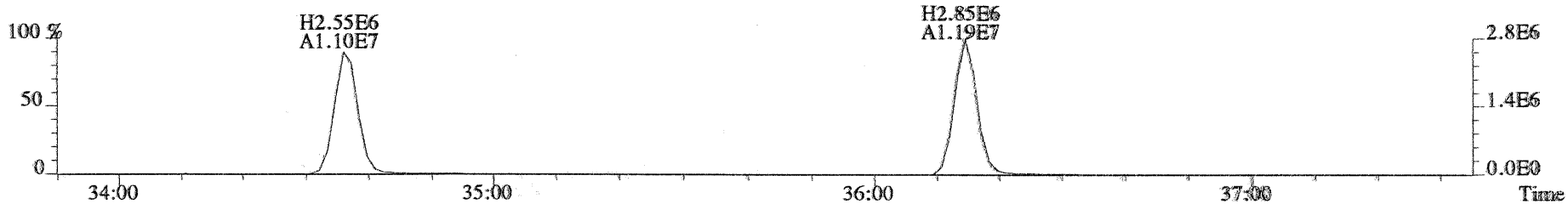
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



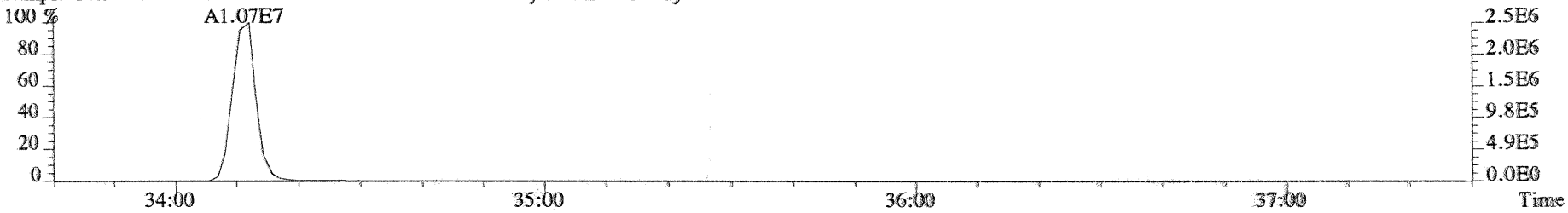
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



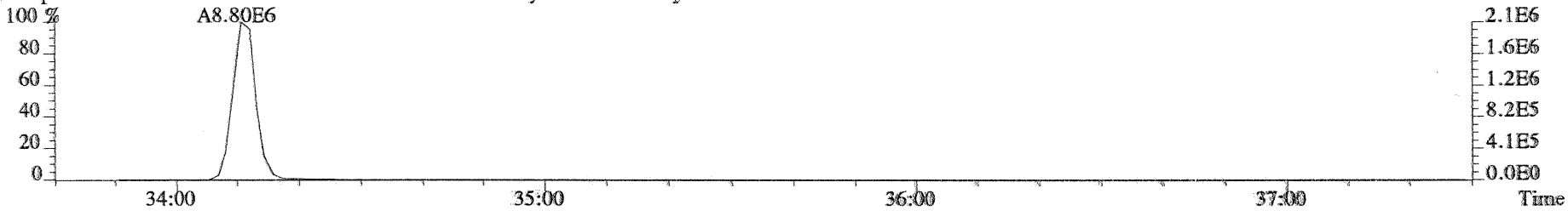
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



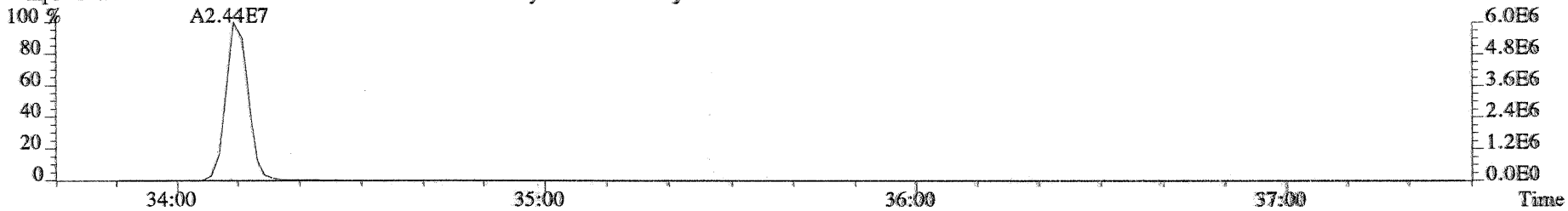
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



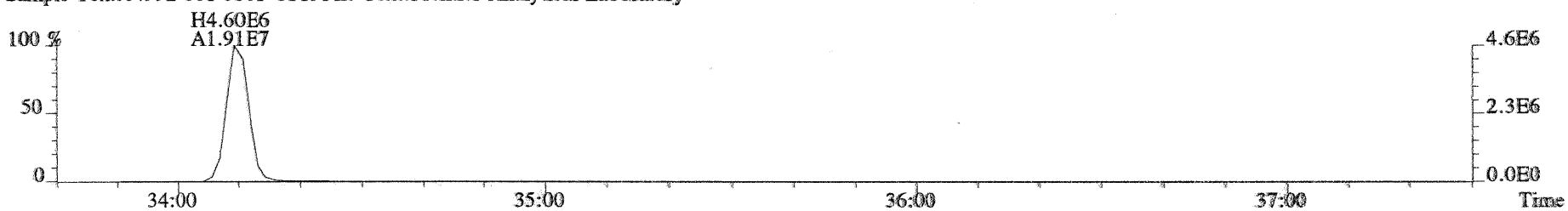
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



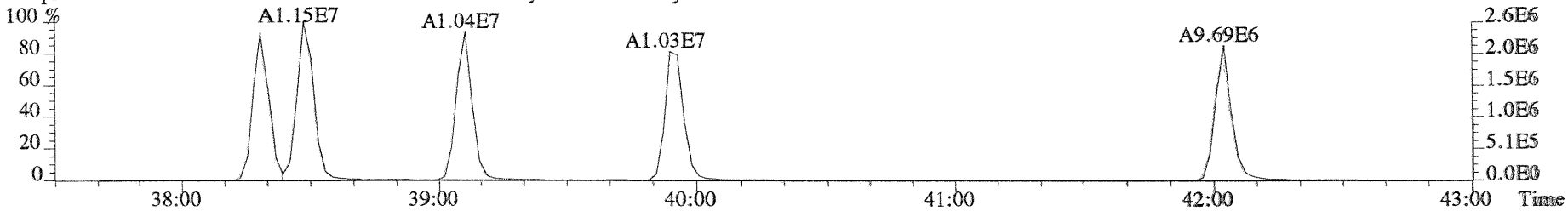
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



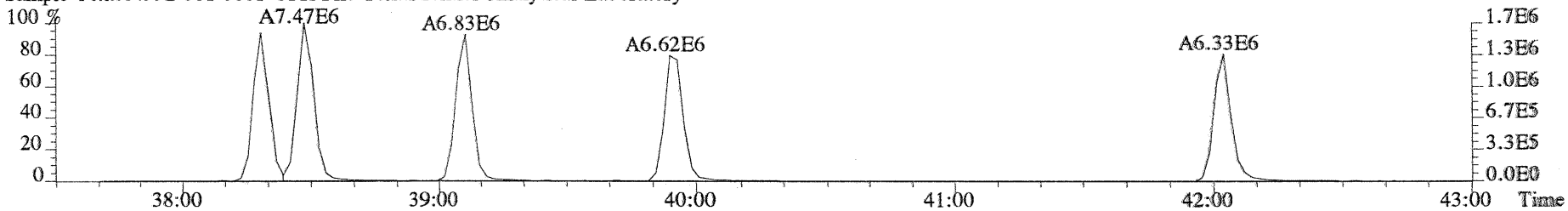
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



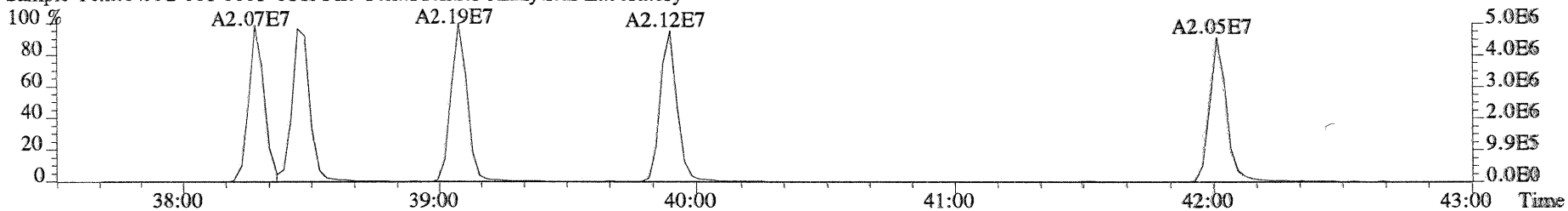
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



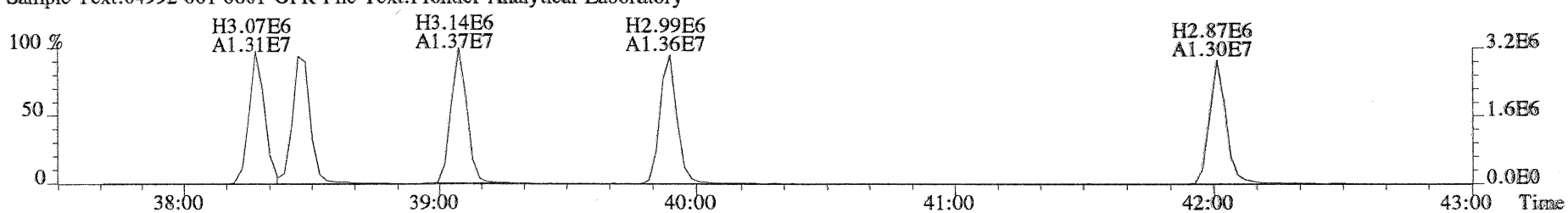
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



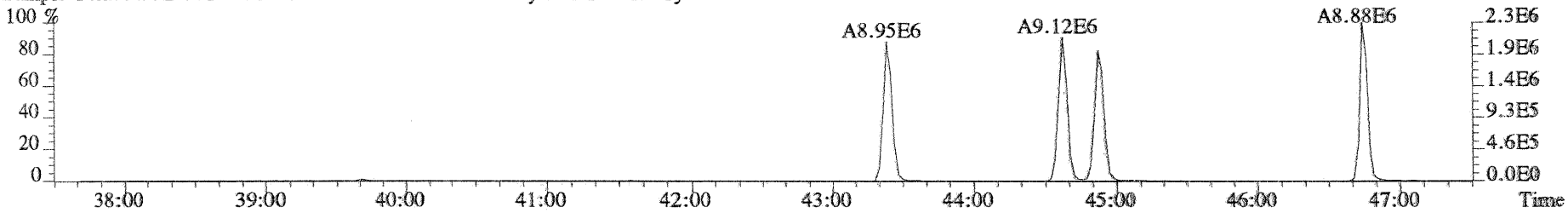
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



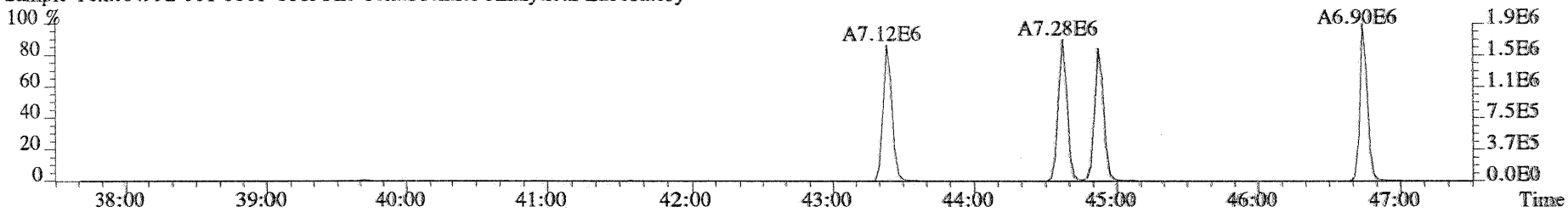
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



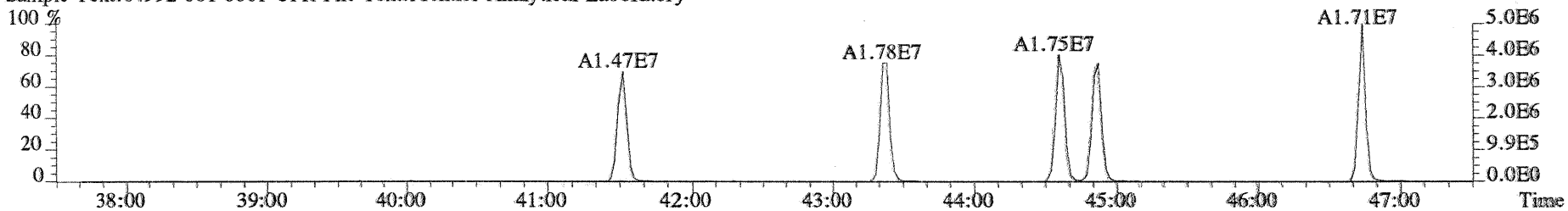
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



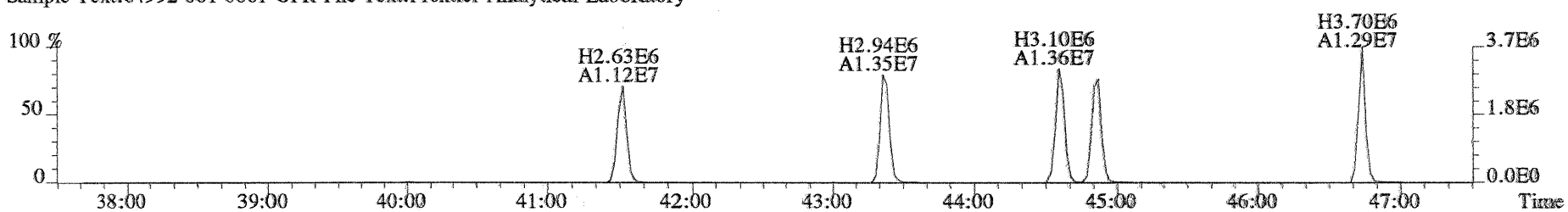
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



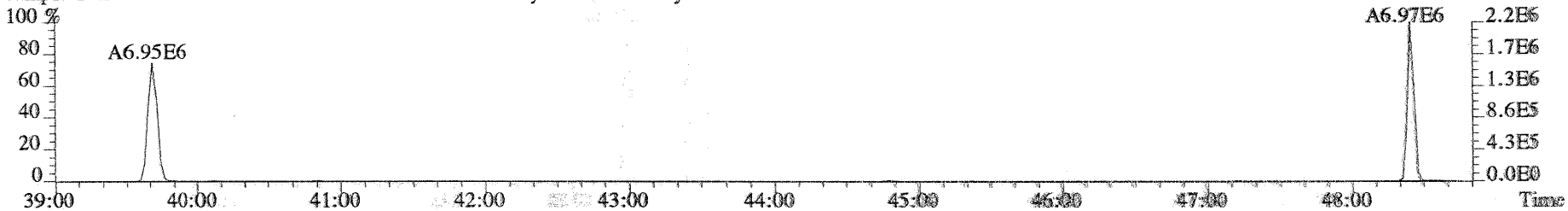
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



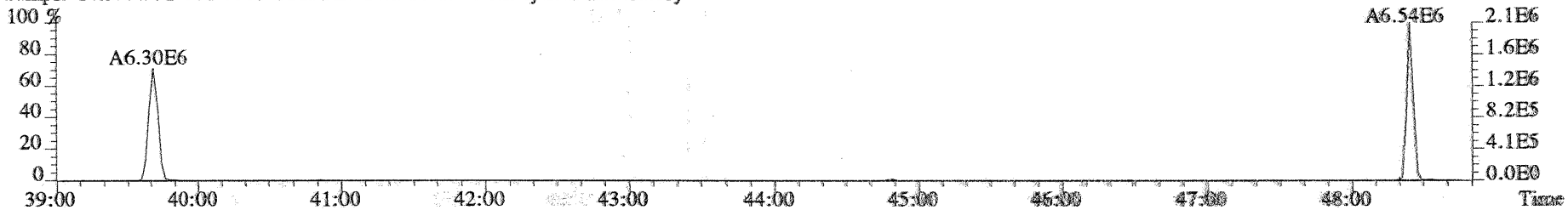
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



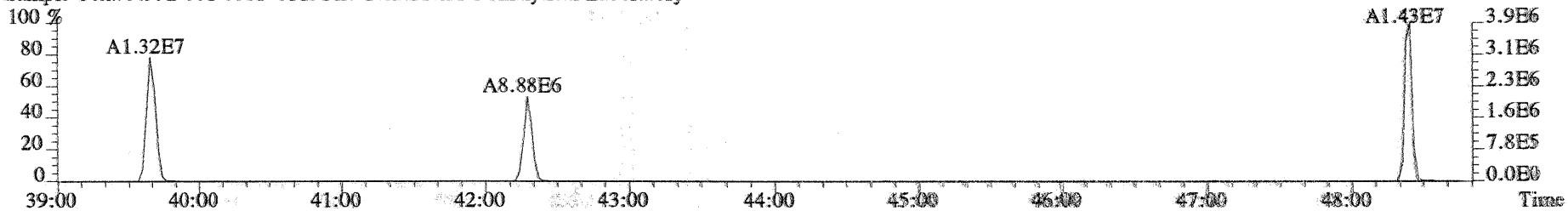
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



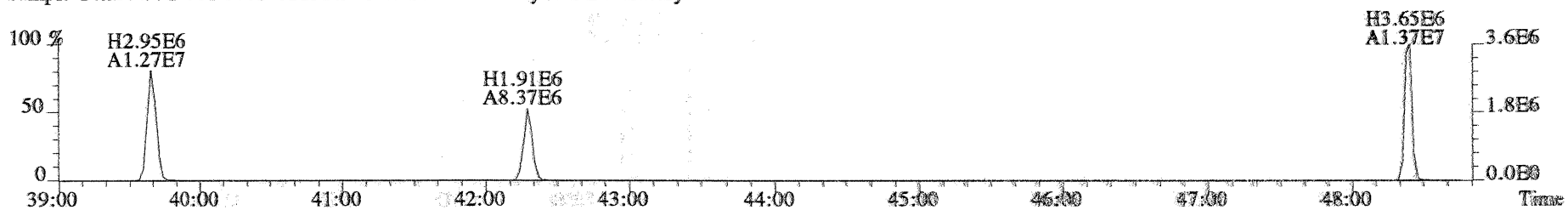
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



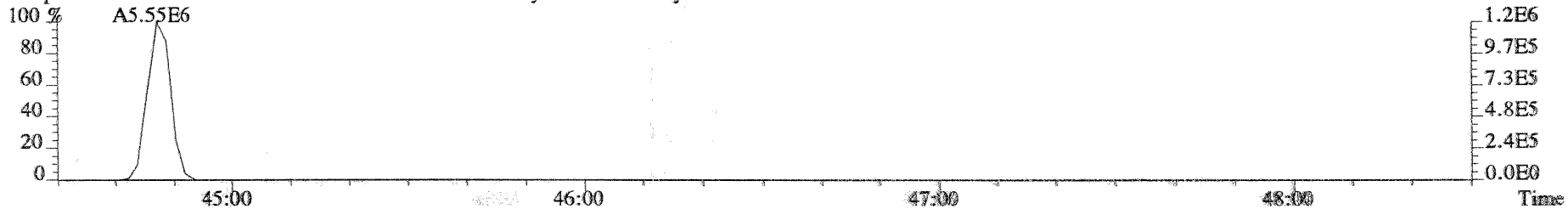
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



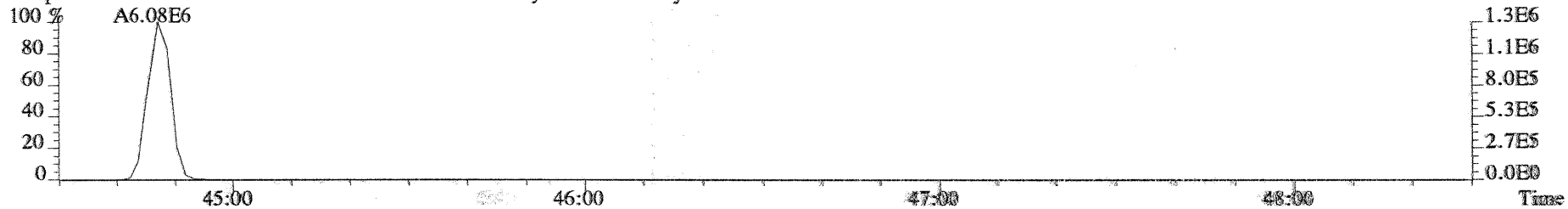
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



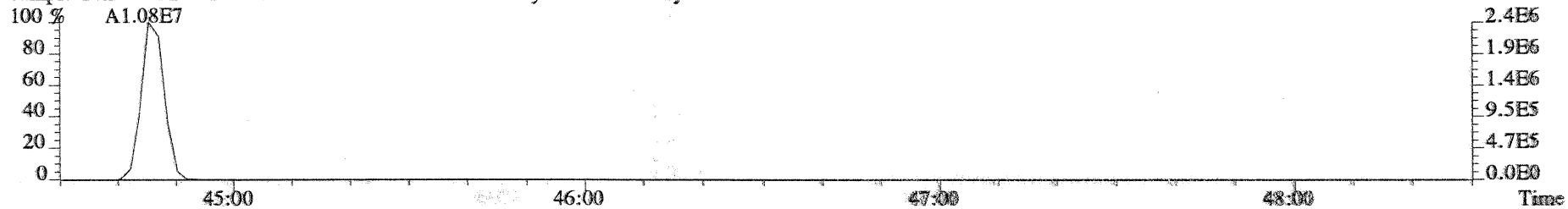
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



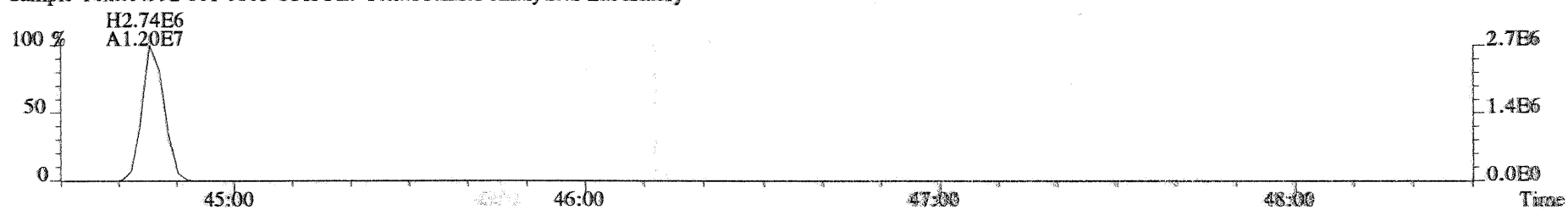
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



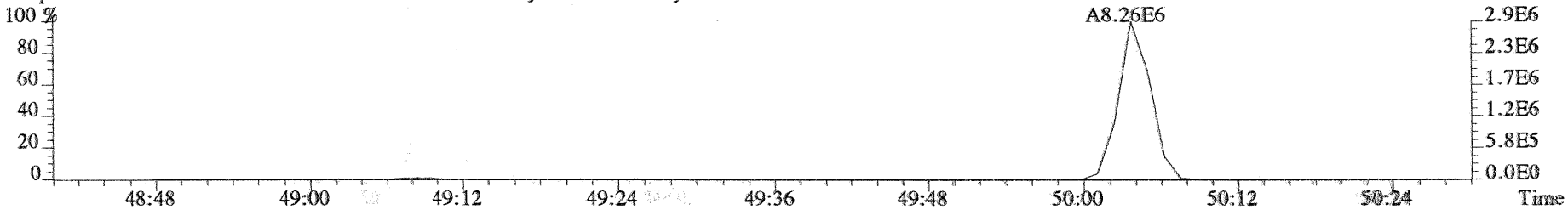
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



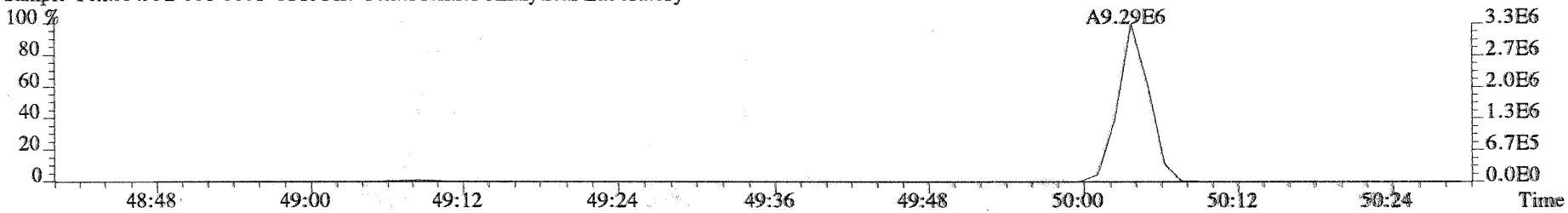
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



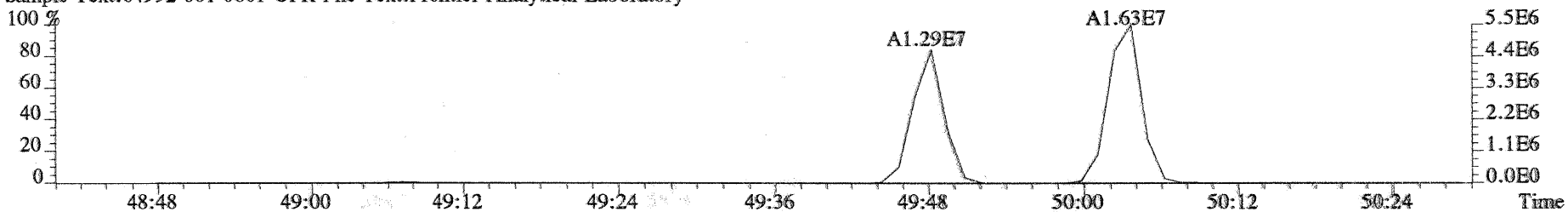
File:02AUG19Z #1-315 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



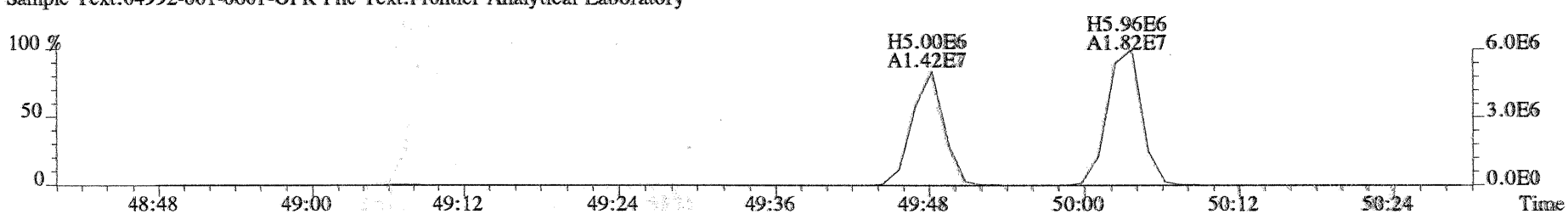
File:02AUG19Z #1-315 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



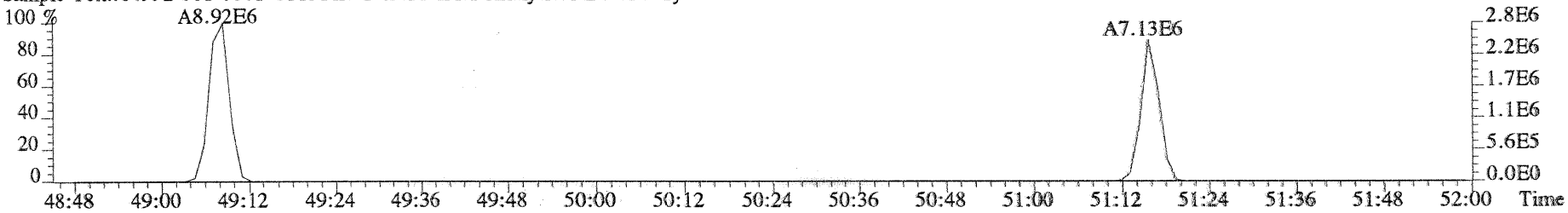
File:02AUG19Z #1-315 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



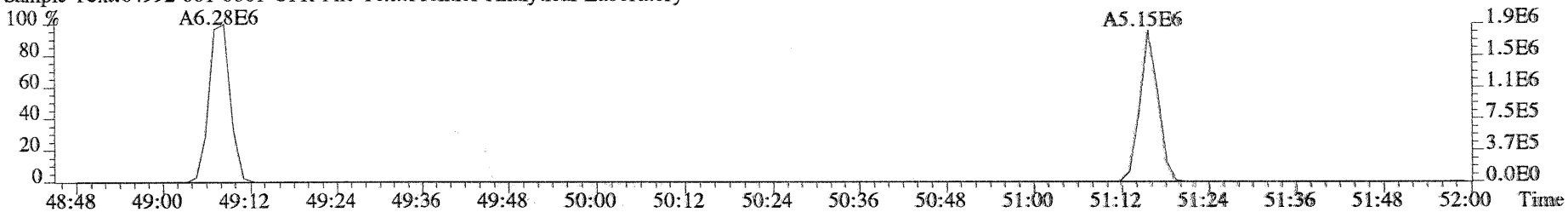
File:02AUG19Z #1-315 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



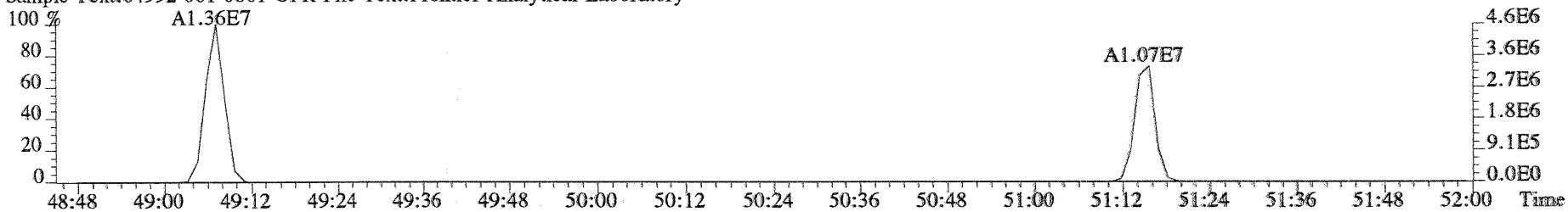
File:02AUG19Z #1-315 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



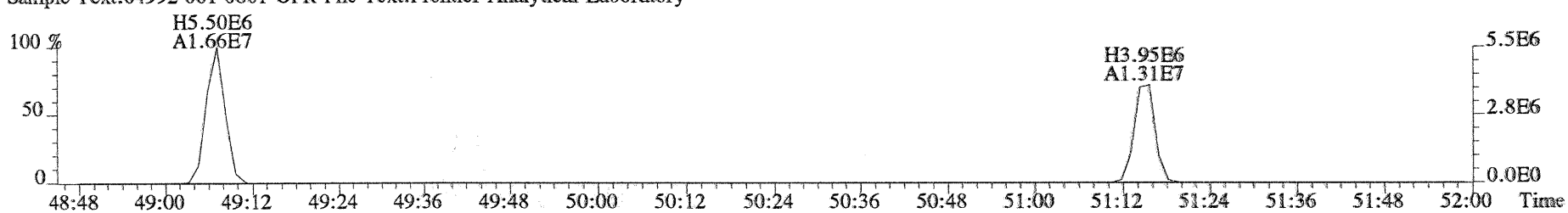
File:02AUG19Z #1-315 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 08:58:59 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:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 08:58:59 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:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 08:58:59 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
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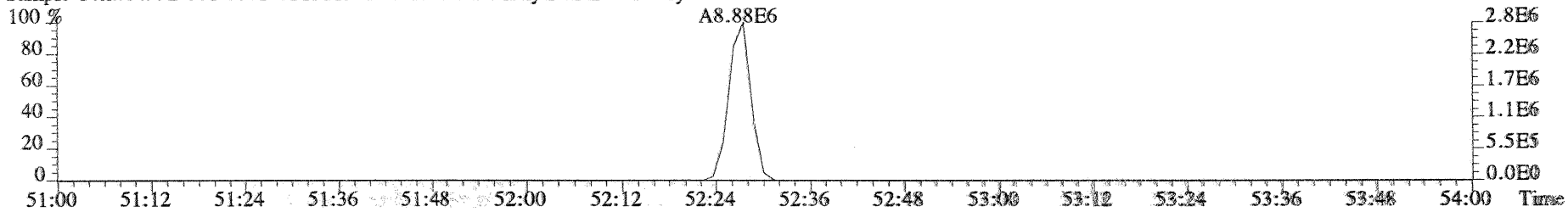
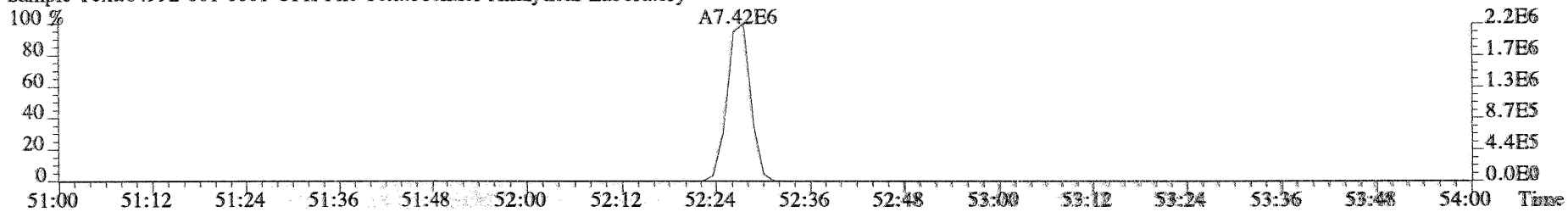
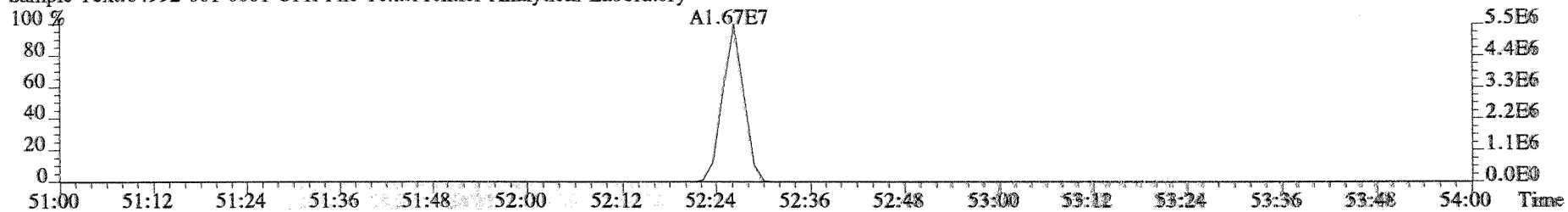


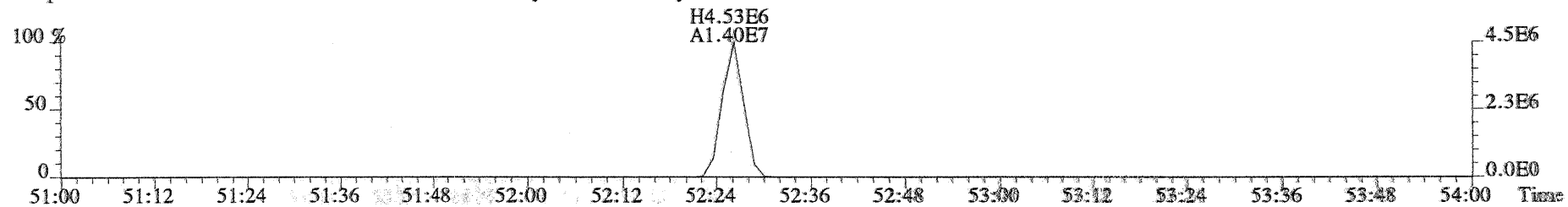
File:02AUG19Z #1-315 Acq: 2-AUG-2019 08:58:59 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 08:58:59 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:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 08:58:59 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:04992-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 12511-001-0001-SA Filename: 02AUG19Z Sam:5 Acquired: 2-AUG-19 10:55:41 ICal: DAILY209FAL4-8-2-19
Client ID: LDW-Y2-IN-ENR+AC-CB-S010 ConCal: ST080219Z1 EndCal: ST080219Z2
Results: 12511-1 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	*		1230	1090	2.16	
13C-PCB-1	6.86e+07	3.24	y	14:31	0.90	7960					79.6
PCB-2	*	*	n	NotFnd	1.17	*		1230	1090	2.27	
PCB-3	*	*	n	NotFnd	1.14	*		1230	1090	2.46	
13C-PCB-3	7.24e+07	3.37	y	16:57	0.92	8230					82.3
PCB-4	1.56e+05	1.58	y	18:12	1.24	23.6		-	-	*	
PCB-10	*	*	n	NotFnd	1.21	*		877	6570	8.85	
13C-PCB-4	5.31e+07	1.59	y	18:10	0.65	8580					85.8
PCB-9	*	*	n	NotFnd	1.33	*		877	6570	8.09	
PCB-7	*	*	n	NotFnd	1.38	*		877	6570	7.77	
PCB-6	1.74e+05	1.38	y	20:30	1.41	18.8	J	-	-	*	
PCB-8	3.90e+05	1.56	y	20:52	1.29	45.9		-	-	*	
PCB-5	*	*	n	NotFnd	1.37	*		877	6570	7.84	
PCB-14	1.91e+06	1.42	y	21:55	1.28	227		-	-	*	
PCB-11	2.59e+05	1.44	y	23:04	1.20	32.8		-	-	*	
PCB-13	*	*	n	NotFnd	1.23	*		877	6570	8.70	
PCB-12	*	*	n	NotFnd	1.26	*		877	6570	8.54	
PCB-15	1.61e+05	1.54	y	23:43	1.14	18.0	J	-	-	*	
13C-PCB-15	7.85e+07	1.63	y	23:42	0.98	8390					83.9
PCB-19	1.27e+05	1.13	y	22:04	1.22	25.5		-	-	*	
PCB-30	*	*	n	NotFnd	1.84	*		1310	424	2.02	
PCB-18	8.67e+05	1.12	y	23:37	1.22	174		-	-	*	
PCB-17	3.94e+05	1.03	y	23:47	1.31	73.9		-	-	*	
PCB-27	8.29e+04	0.95	y	24:18	1.79	11.4	J	-	-	*	
PCB-24	8.89e+04	1.09	y	24:19	1.78	12.3	J	-	-	*	
PCB-16	2.65e+05	0.95	y	24:48	1.47	44.1		-	-	*	
PCB-32	2.81e+05	1.07	y	24:49	1.54	44.6		-	-	*	
13C-PCB-19	4.08e+07	1.07	y	22:03	0.46	9320					93.2
13C-PCB-9	9.54e+07	1.58	y	19:51	-	56.0					
PCB-34	*	*	n	NotFnd	1.26	*		2040	1460	5.47	
PCB-23	*	*	n	NotFnd	1.25	*		2040	1460	5.55	
PCB-29	*	*	n	NotFnd	1.30	*		2040	1460	5.31	
PCB-26	5.79e+05	1.03	y	26:05	1.28	72.6		-	-	*	
PCB-25	2.64e+05	1.15	y	26:15	1.22	34.6		-	-	*	
PCB-31	1.19e+06	1.06	y	26:35	1.25	152		-	-	*	
PCB-28	1.35e+06	1.02	y	26:40	1.46	149		-	-	*	
PCB-20	5.45e+05	1.03	y	27:17	1.20	73.1		-	-	*	Co-elute PCB 21/33
PCB-21	5.45e+05	1.03	y	27:17	1.20	73.1		-	-	*	Co-elute PCB 20/33
PCB-33	5.45e+05	1.03	y	27:17	1.20	73.1		-	-	*	Co-elute PCB 20/21
PCB-22	3.42e+05	1.15	y	27:41	1.28	43.0		-	-	*	
PCB-36	4.14e+06	0.97	y	28:16	1.18	565		-	-	*	
PCB-39	*	*	n	NotFnd	1.17	*		2040	1460	5.89	
PCB-38	*	*	n	NotFnd	1.16	*		2040	1460	5.97	
PCB-35	*	*	n	NotFnd	1.07	*		2040	1460	6.44	
PCB-37	1.72e+05	1.10	y	30:21	1.13	24.4		-	-	*	
13C-PCB-37	6.23e+07	1.08	y	30:20	1.48	9360					93.6

PCB-54	*	*	n	NotFnd	1.26	*		656	952	2.54	
PCB-50	4.43e+04	0.86	y	26:41	0.98	9.43	J	-	-	*	
PCB-53	3.16e+05	0.83	y	27:18	0.97	67.9		-	-	*	
PCB-51	9.27e+04	0.72	y	27:37	1.00	19.3	J	-	-	*	
PCB-45	1.93e+05	0.83	y	28:02	0.84	48.0		-	-	*	
PCB-46	7.50e+04	0.72	y	28:30	0.80	19.6	J	-	-	*	
PCB-52	3.63e+06	0.81	y	28:55	0.97	784		-	-	*	Co-elute PCB 69
PCB-69	3.63e+06	0.81	y	28:55	0.97	784		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.27	*		656	952	2.53	
PCB-43	1.65e+06	0.79	y	29:13	0.87	398		-	-	*	Co-elute PCB 49
PCB-49	1.65e+06	0.79	y	29:13	0.87	398		-	-	*	Co-elute PCB 43
PCB-47	5.38e+05	0.75	y	29:25	0.92	122		-	-	*	
PCB-48	3.00e+05	0.79	y	29:32	1.07	58.6		-	-	*	Co-elute PCB 75
PCB-75	3.00e+05	0.79	y	29:32	1.07	58.6		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.06	*		656	952	3.02	
PCB-62	*	*	n	NotFnd	1.16	*		656	952	2.76	
PCB-44	1.24e+06	0.81	y	30:10	0.72	358		-	-	*	
PCB-42	5.08e+05	0.86	y	30:24	0.94	113		-	-	*	Co-elute PCB 59
PCB-59	5.08e+05	0.86	y	30:24	0.94	113		-	-	*	Co-elute PCB 42
PCB-72	1.23e+06	0.79	y	30:57	1.06	243		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.23e+06	0.79	y	30:57	1.06	243		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.23e+06	0.79	y	30:57	1.06	243		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.23e+06	0.79	y	30:57	1.06	243		-	-	*	Co-elute PCB 72/41/71
PCB-68	8.46e+04	0.70	y	31:11	1.21	14.6	J	-	-	*	
PCB-40	1.47e+05	0.66	y	31:23	0.66	46.9		-	-	*	
PCB-57	*	*	n	NotFnd	1.09	*		656	952	2.94	
PCB-67	5.31e+04	0.87	y	32:03	1.08	10.3	J	-	-	*	
PCB-58	*	*	n	NotFnd	1.10	*		656	952	2.91	
PCB-63	6.61e+04	0.81	y	32:16	1.10	12.5	J	-	-	*	
PCB-74	5.10e+05	0.84	y	32:33	1.08	98.8		-	-	*	
PCB-61	1.20e+06	0.81	y	32:46	1.03	243		-	-	*	Co-elute PCB 70
PCB-70	1.20e+06	0.81	y	32:46	1.03	243		-	-	*	Co-elute PCB 61
PCB-76	1.09e+06	0.86	y	32:57	1.13	201		-	-	*	Co-elute PCB 66
PCB-66	1.09e+06	0.86	y	32:57	1.13	201		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.30	*		656	952	2.47	
PCB-55	1.95e+05	0.82	y	33:29	1.13	36.0		-	-	*	
13C-PCB-54	4.79e+07	0.82	y	25:34	1.20	8890					88.9
PCB-104	1.01e+07	1.59	y	30:01	1.11	2260		-	-	*	
PCB-96	3.42e+04	1.38	y	31:13	1.05	8.14	J	-	-	*	
PCB-103	4.77e+04	1.36	y	31:44	0.84	14.1	J	-	-	*	
PCB-100	3.86e+04	1.59	y	32:04	0.83	11.5	J	-	-	*	
PCB-94	*	*	n	NotFnd	0.69	*		284	392	2.41	
PCB-98	*	*	n	NotFnd	0.72	*		284	392	2.32	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.72	*		284	392	2.32	Co-elute PCB 98
PCB-95	2.51e+06	1.55	y	33:01	0.71	876		-	-	*	
PCB-93	*	*	n	NotFnd	0.69	*		284	392	2.39	
PCB-88	*	*	n	NotFnd	0.77	*		284	392	2.16	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.77	*		284	392	2.16	Co-elute PCB 88
PCB-121	1.49e+07	1.60	y	33:29	0.93	4010		-	-	*	
13C-PCB-104	4.02e+07	1.57	y	30:00	0.92	9670					96.7
13C-PCB-28	7.98e+07	1.06	y	26:39	1.83	9690					96.9
13C-PCB-52	4.50e+07	0.83	y	28:54	-	55.6					

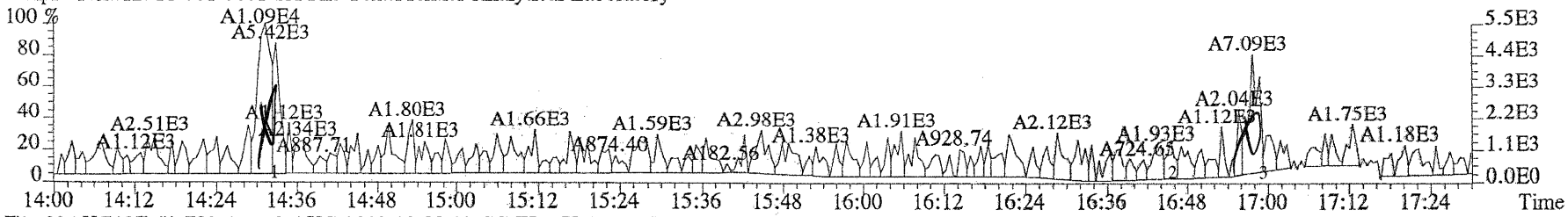
PCB-56	5.67e+05	0.78	y	33:56	1.26	94.6		-	-	*	Co-elute PCB 60
PCB-60	5.67e+05	0.78	y	33:56	1.26	94.6		-	-	*	Co-elute PCB 56
PCB-79	6.03e+04	0.72	y	34:57	1.19	10.7	J	-	-	*	
PCB-78	1.18e+07	0.79	y	35:37	1.10	2270		-	-	*	
PCB-81	1.01e+05	0.81	y	36:08	1.24	17.4	J	-	-	*	
13C-PCB-81	4.69e+07	0.79	y	36:05	1.38	10100					101
PCB-77	7.67e+04	0.67	y	36:39	1.05	15.2	J	-	-	*	
13C-PCB-77	4.81e+07	0.81	y	36:39	1.43	10000					100
PCB-155	1.64e+07	1.26	y	34:10	1.03	4020		-	-	*	
PCB-150	*	*	n	NotFnd	0.99	*		360	328	1.78	
PCB-152	*	*	n	NotFnd	0.90	*		360	328	1.96	
PCB-145	*	*	n	NotFnd	0.86	*		360	328	2.05	
PCB-136	3.76e+05	1.26	y	36:33	0.81	118		-	-	*	
PCB-148	*	*	n	NotFnd	0.60	*		360	328	2.91	
PCB-154	7.25e+04	1.16	y	37:06	0.68	27.0		-	-	*	
13C-PCB-155	3.95e+07	1.26	y	34:09	1.23	9530					95.3
13C-PCB-111	3.89e+07	1.61	y	36:14	1.08	10600					106
13C-PCB-101	3.37e+07	1.62	y	34:35	-	54.3					
PCB-84	1.34e+06	1.63	y	34:16	0.87	368		-	-	*	Co-elute PCB 92
PCB-92	1.34e+06	1.63	y	34:16	0.87	368		-	-	*	Co-elute PCB 84
PCB-89	4.02e+04	1.45	y	34:28	0.87	11.1	J	-	-	*	
PCB-90	2.62e+06	1.55	y	34:37	0.98	642		-	-	*	Co-elute PCB 101
PCB-101	2.62e+06	1.55	y	34:37	0.98	642		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*		1080	960	5.01	
PCB-99	1.25e+06	1.51	y	34:55	1.12	270		-	-	*	
PCB-119	1.06e+05	1.59	y	35:22	1.20	21.1		-	-	*	
PCB-83	1.30e+05	1.43	y	35:32	0.88	35.3		-	-	*	Co-elute PCB 112
PCB-112	1.30e+05	1.43	y	35:32	0.88	35.3		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.06	*		1080	960	5.15	
PCB-97	5.91e+05	1.59	y	35:51	0.72	198		-	-	*	
PCB-86	*	*	n	NotFnd	0.71	*		1080	960	7.70	
PCB-125	9.80e+05	1.70	y	36:08	0.95	247		-	-	*	Co-elute PCB 87/117
PCB-87	9.80e+05	1.70	y	36:08	0.95	247		-	-	*	Co-elute PCB 125/117
PCB-117	9.80e+05	1.70	y	36:08	0.95	247		-	-	*	Co-elute PCB 125/87
PCB-111	5.84e+04	1.51	y	36:15	1.15	12.2	J	-	-	*	Co-elute PCB 115
PCB-115	5.84e+04	1.51	y	36:15	1.15	12.2	J	-	-	*	Co-elute PCB 111
PCB-85	3.72e+05	1.60	y	36:23	0.87	103		-	-	*	Co-elute PCB 116
PCB-116	3.72e+05	1.60	y	36:23	0.87	103		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.13	*		1080	960	4.86	
PCB-110	3.24e+06	1.52	y	36:44	1.04	751		-	-	*	
PCB-82	1.85e+05	1.67	y	37:21	0.60	74.1		-	-	*	
PCB-124	9.77e+04	1.44	y	38:01	1.04	22.6		-	-	*	
PCB-108	1.64e+05	1.42	y	38:10	1.10	35.7		-	-	*	Co-elute PCB 107
PCB-107	1.64e+05	1.42	y	38:10	1.10	35.7		-	-	*	Co-elute PCB 108
PCB-123	3.29e+04	1.59	y	38:18	1.05	7.87	J	-	-	*	
13C-PCB-123	3.96e+07	1.55	y	38:16	1.31	9060					90.6
PCB-118	1.71e+06	1.44	y	38:28	1.04	371		-	-	*	Co-elute PCB 106
PCB-106	1.71e+06	1.44	y	38:28	1.04	371		-	-	*	Co-elute PCB 118
13C-PCB-118	4.41e+07	1.58	y	38:26	1.51	8770					87.7
PCB-114	*	*	n	NotFnd	1.11	*		660	848	3.49	
13C-PCB-114	4.23e+07	1.59	y	39:04	1.42	8940					89.4
PCB-122	*	*	n	NotFnd	1.07	*		660	848	3.77	
PCB-105	6.05e+05	1.55	y	39:53	1.13	131		-	-	*	
13C-PCB-105	4.06e+07	1.60	y	39:53	1.44	8460					84.6

PCB-127	*	*	n	NotFnd	1.05	*		660	848	3.85		
PCB-126	*	*	n	NotFnd	1.08	*		660	848	4.28		
13C-PCB-126	3.89e+07	1.59	y	42:00	1.36	8570					85.7	
PCB-151	3.88e+05	1.31	y	37:43	0.76	153		-	-	*		
PCB-135	2.67e+05	1.26	y	37:56	0.78	102		-	-	*		
PCB-144	9.41e+04	1.32	y	38:01	0.80	35.2		-	-	*		
PCB-147	5.14e+04	1.13	y	38:10	0.92	16.9	J	-	-	*		
PCB-139	1.56e+06	1.23	y	38:24	0.89	527		-	-	*	Co-elute PCB 149	
PCB-149	1.56e+06	1.23	y	38:24	0.89	527		-	-	*	Co-elute PCB 139	
PCB-140	*	*	n	NotFnd	0.87	*		628	592	4.58		
PCB-143	8.95e+04	1.36	y	39:01	0.75	36.0		-	-	*	Co-elute PCB 134	
PCB-134	8.95e+04	1.36	y	39:01	0.75	36.0		-	-	*	Co-elute PCB 143	
PCB-131	3.07e+04	1.17	y	39:17	0.72	12.8	J	-	-	*	Co-elute PCB 133	
PCB-133	3.07e+04	1.17	y	39:17	0.72	12.8	J	-	-	*	Co-elute PCB 131	
PCB-142	3.35e+07	1.25	y	39:27	0.74	13700		-	-	*		
PCB-165	3.61e+05	1.31	y	39:38	1.01	108		-	-	*	Co-elute PCB 146	
PCB-146	3.61e+05	1.31	y	39:38	1.01	108		-	-	*	Co-elute PCB 165	
PCB-161	4.50e+05	1.34	y	39:53	0.94	144		-	-	*	Co-elute PCB 132	
PCB-132	4.50e+05	1.34	y	39:53	0.94	144		-	-	*	Co-elute PCB 161	
PCB-153	1.86e+06	1.24	y	40:01	0.96	582		-	-	*		
PCB-168	*	*	n	NotFnd	1.09	*		628	592	3.63		
PCB-141	2.60e+05	1.35	y	40:44	0.79	98.5		-	-	*		
PCB-137	8.30e+04	1.42	y	41:06	0.83	29.9		-	-	*		
PCB-130	1.03e+05	1.35	y	41:11	0.69	44.7		-	-	*		
PCB-138	1.76e+06	1.28	y	41:32	1.03	517		-	-	*	Co-elute PCB 163/164	
PCB-163	1.76e+06	1.28	y	41:32	1.03	517		-	-	*	Co-elute PCB 138/164	
PCB-164	1.76e+06	1.28	y	41:32	1.03	517		-	-	*	Co-elute PCB 138/163	
PCB-158	2.05e+05	1.31	y	41:45	1.13	54.6		-	-	*	Co-elute PCB 160	
PCB-160	2.05e+05	1.31	y	41:45	1.13	54.6		-	-	*	Co-elute PCB 158	
PCB-129	6.80e+04	1.31	y	42:00	0.70	29.3		-	-	*		
PCB-166	*	*	n	NotFnd	1.09	*		628	592	3.64		
PCB-159	*	*	n	NotFnd	1.17	*		628	592	3.40		
PCB-128	2.04e+05	1.24	y	43:01	0.93	65.8		-	-	*	Co-elute PCB 162	
PCB-162	2.04e+05	1.24	y	43:01	0.93	65.8		-	-	*	Co-elute PCB 128	
PCB-167	6.73e+04	1.15	y	43:22	1.11	18.1	J	-	-	*		
13C-PCB-167	3.35e+07	1.29	y	43:21	1.22	8270					82.7	
PCB-156	1.35e+05	1.27	y	44:36	1.20	35.2		-	-	*		
13C-PCB-156	3.21e+07	1.30	y	44:35	1.23	7840					78.4	
PCB-157	4.85e+04	1.11	y	44:53	1.11	13.1	J	-	-	*		
13C-PCB-157	3.34e+07	1.27	y	44:51	1.25	8020					80.2	
PCB-169	*	*	n	NotFnd	1.05	*		628	592	3.08		
13C-PCB-169	3.40e+07	1.28	y	46:43	1.28	7960					79.6	

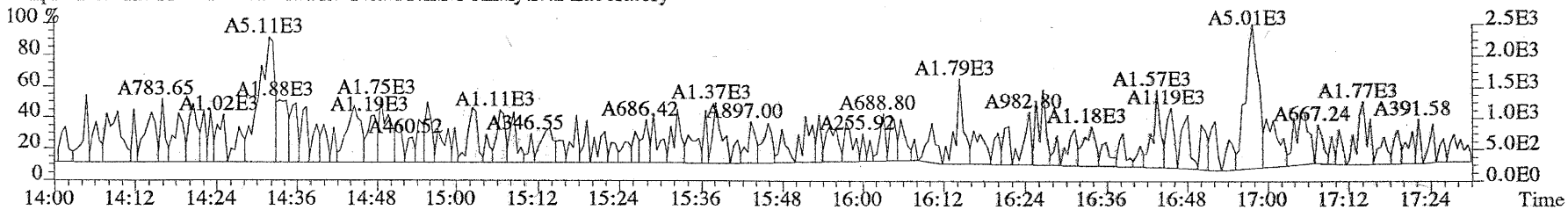
PCB-188	2.08e+04	0.96	y	39:40	1.07	6.10	J	-	-	*	
13C-PCB-188	3.18e+07	1.06	y	39:38	1.05	9100					91.0
PCB-184	1.81e+07	1.07	y	40:05	1.06	5650		-	-	*	
PCB-179	*	*	n	NotFnd	1.03	*		472	292	2.29	
PCB-176	4.88e+04	1.03	y	41:16	1.03	15.6	J	-	-	*	
PCB-186	*	*	n	NotFnd	1.02	*		472	292	2.30	
PCB-178	5.02e+04	1.11	y	42:18	0.66	25.1		-	-	*	
PCB-175	*	*	n	NotFnd	0.78	*		472	292	3.03	
PCB-187	2.77e+05	1.13	y	42:46	0.83	110		-	-	*	Co-elute PCB 182
PCB-182	2.77e+05	1.13	y	42:46	0.83	110		-	-	*	Co-elute PCB 187
PCB-183	1.31e+05	1.16	y	43:06	0.81	53.2		-	-	*	
PCB-185	2.42e+04	1.13	y	43:44	0.72	11.0	J	-	-	*	
PCB-174	1.70e+05	1.07	y	44:03	0.72	78.0		-	-	*	
PCB-181	*	*	n	NotFnd	0.81	*		472	292	2.89	
PCB-177	8.48e+04	0.98	y	44:20	0.65	42.9		-	-	*	
PCB-171	4.01e+04	1.07	y	44:36	0.76	17.4	J	-	-	*	
PCB-173	*	*	n	NotFnd	0.69	*		472	292	3.41	
PCB-172	2.59e+05	1.11	y	45:22	0.73	116		-	-	*	
PCB-192	1.08e+07	1.06	y	45:34	0.96	3680		-	-	*	
PCB-180	3.15e+05	1.05	y	45:46	0.73	142		-	-	*	
PCB-193	*	*	n	NotFnd	1.03	*		472	292	2.27	
PCB-191	*	*	n	NotFnd	1.02	*		472	292	2.30	
PCB-170	1.09e+05	1.03	y	47:03	0.73	48.9		-	-	*	
PCB-190	3.41e+04	0.90	y	47:13	1.05	10.7	J	-	-	*	
PCB-189	*	*	n	NotFnd	1.06	*		472	292	2.12	
13C-PCB-189	2.90e+07	1.07	y	48:24	1.06	8200					82.0
PCB-202	2.36e+04	0.92	y	44:46	1.05	9.05	J	-	-	*	
PCB-201	*	*	n	NotFnd	1.01	*		180	308	2.20	
PCB-204	2.46e+07	0.94	y	45:22	1.13	8780		-	-	*	
PCB-197	1.61e+05	0.98	y	45:37	1.10	59.4		-	-	*	
PCB-200	*	*	n	NotFnd	1.04	*		180	308	2.13	
PCB-198	*	*	n	NotFnd	0.76	*		180	308	2.93	
PCB-199	4.63e+04	0.80	y	47:39	0.86	21.7		-	-	*	
PCB-203	5.87e+04	0.77	y	47:54	0.93	25.4		-	-	*	Co-elute PCB 196
PCB-196	5.87e+04	0.77	y	47:54	0.93	25.4		-	-	*	Co-elute PCB 203
13C-PCB-202	2.48e+07	0.90	y	44:45	0.85	8750					87.5
13C-PCB-178	2.18e+07	1.08	y	42:16	0.66	9840					98.4
13C-PCB-138	3.33e+07	1.30	y	41:30	-	65.6					
PCB-195	2.15e+04	1.00	y	49:02	0.78	7.81	J	-	-	*	
PCB-194	5.03e+04	0.79	y	49:48	0.85	16.7	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.10	*		364	744	2.32	
13C-PCB-205	3.52e+07	0.90	y	50:02	1.30	8800					88.0
PCB-208	*	*	n	NotFnd	1.06	*		544	584	2.34	
13C-PCB-208	3.33e+07	0.81	y	49:07	1.20	9010					90.1
PCB-207	1.28e+05	1.40	y	49:25	1.18	37.4		-	-	*	
PCB-206	1.53e+04	1.34	y	51:15	1.07	5.75	J	-	-	*	
13C-PCB-206	2.48e+07	0.79	y	51:14	0.94	8590					85.9
PCB-209	1.60e+05	1.13	y	52:26	1.12	45.8		-	-	*	
13C-PCB-209	3.13e+07	1.22	y	52:26	1.22	8370					83.7
13C-PCB-194	3.08e+07	0.91	y	49:48	-	60.1					

Analyst: _____ Date: 8/5/19

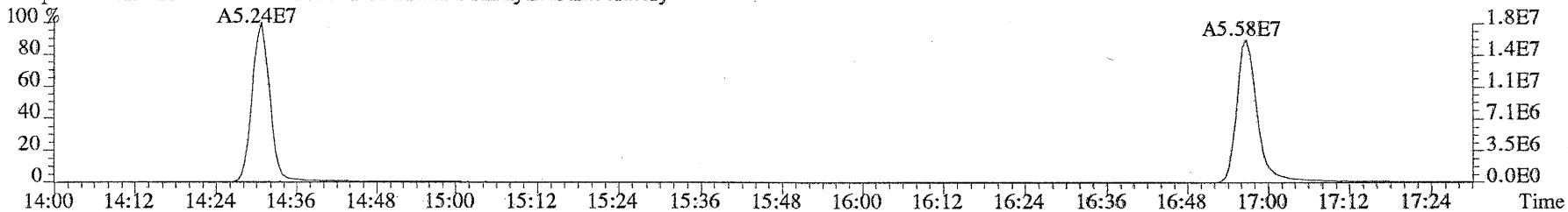
File:02AUG19Z #1-783 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



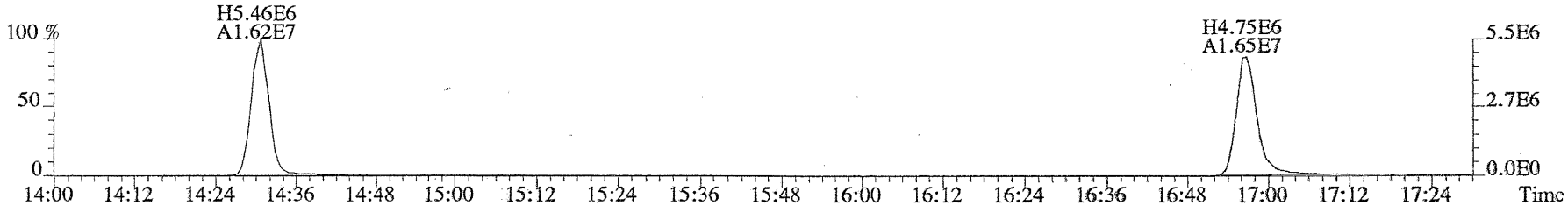
File:02AUG19Z #1-783 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



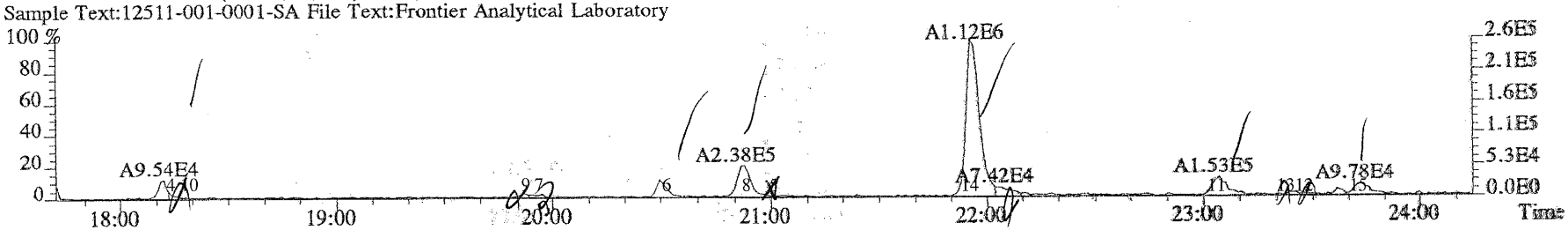
File:02AUG19Z #1-783 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



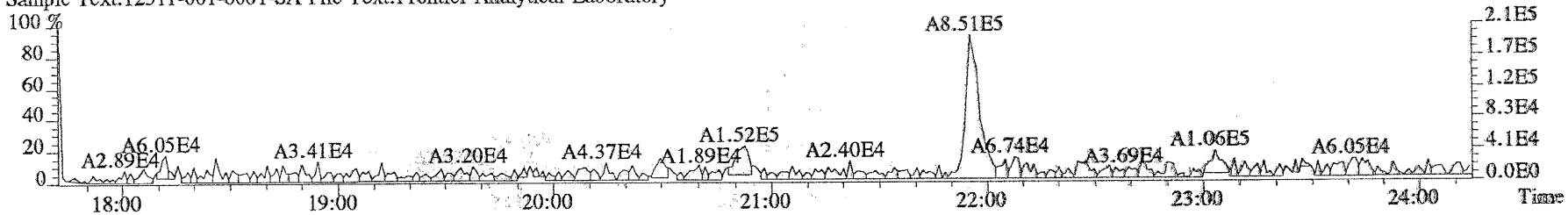
File:02AUG19Z #1-783 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



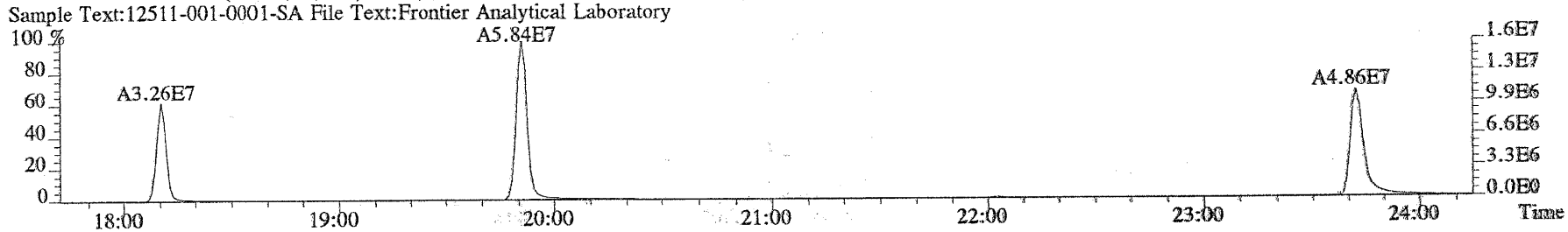
File:02AUG19Z #1-521 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



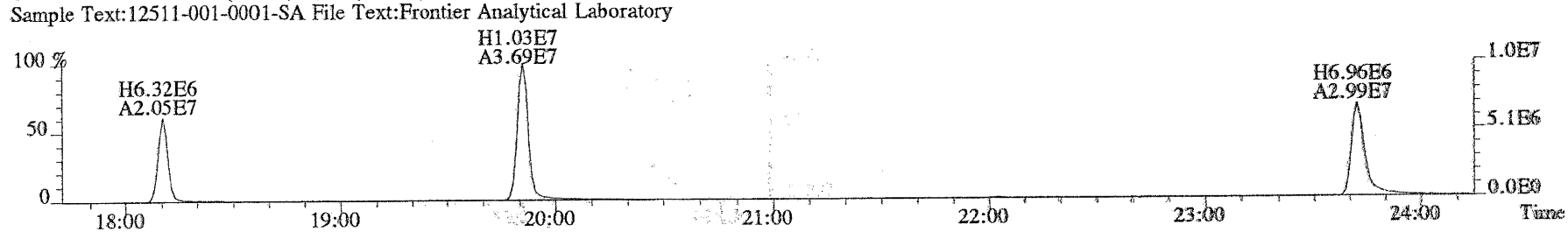
File:02AUG19Z #1-521 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



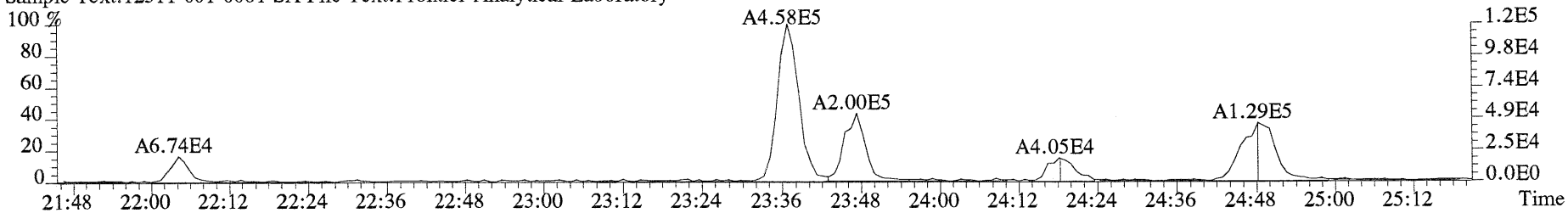
File:02AUG19Z #1-521 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



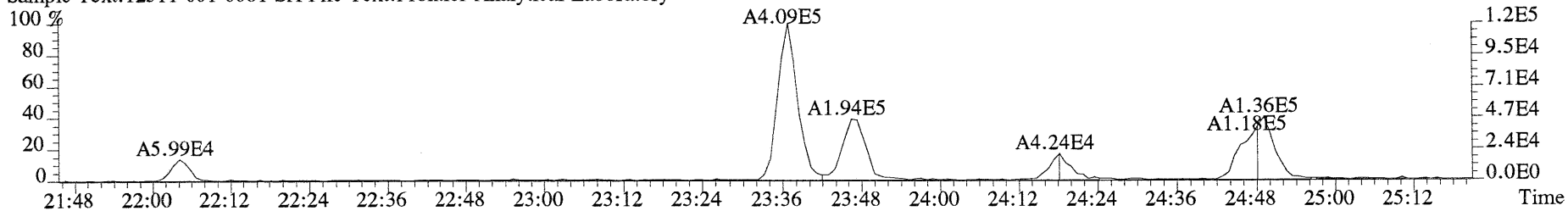
File:02AUG19Z #1-521 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



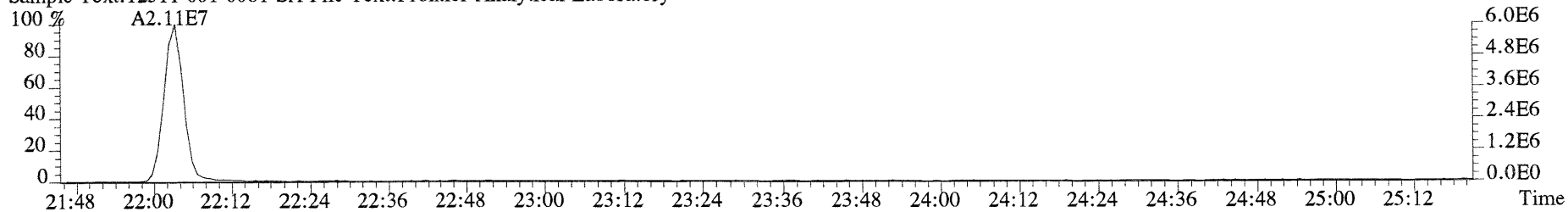
File:02AUG19Z #1-521 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



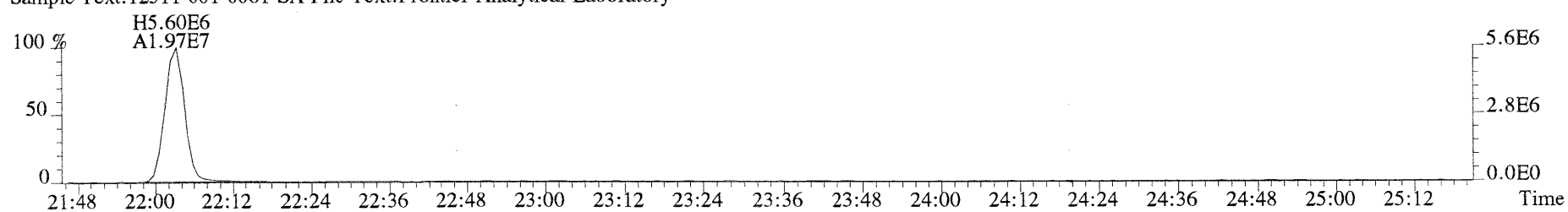
File:02AUG19Z #1-521 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



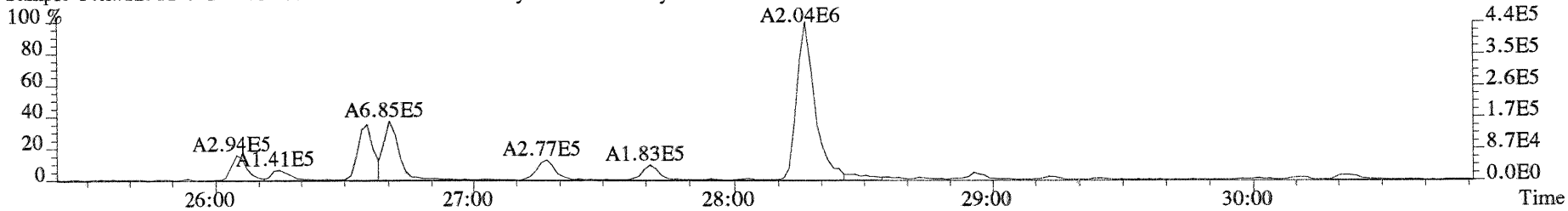
File:02AUG19Z #1-521 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



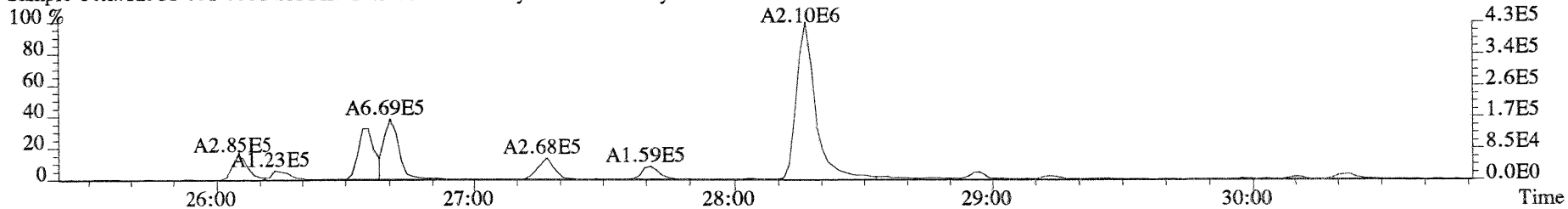
File:02AUG19Z #1-521 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



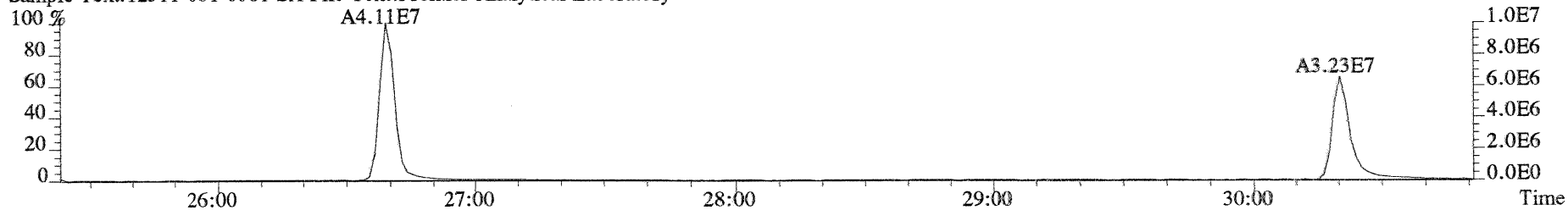
File:02AUG19Z #1-401 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



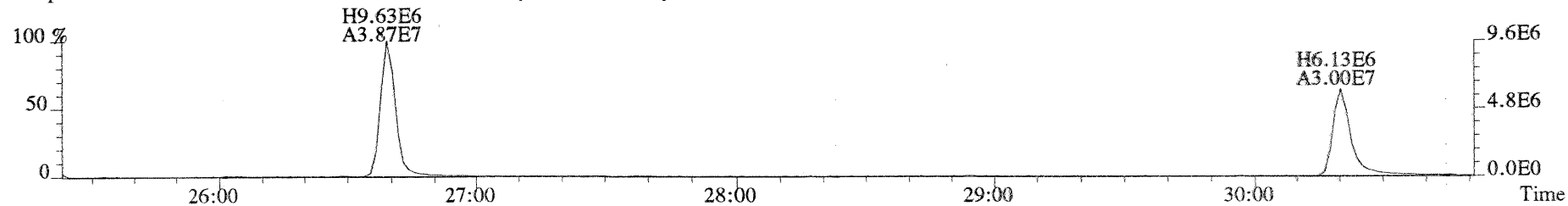
File:02AUG19Z #1-401 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



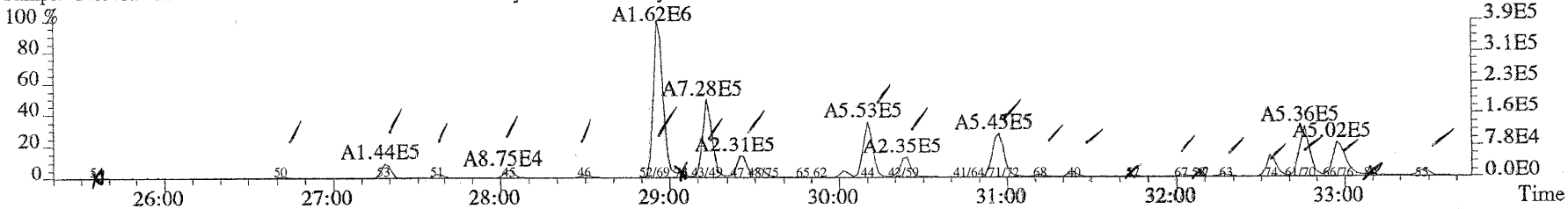
File:02AUG19Z #1-401 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



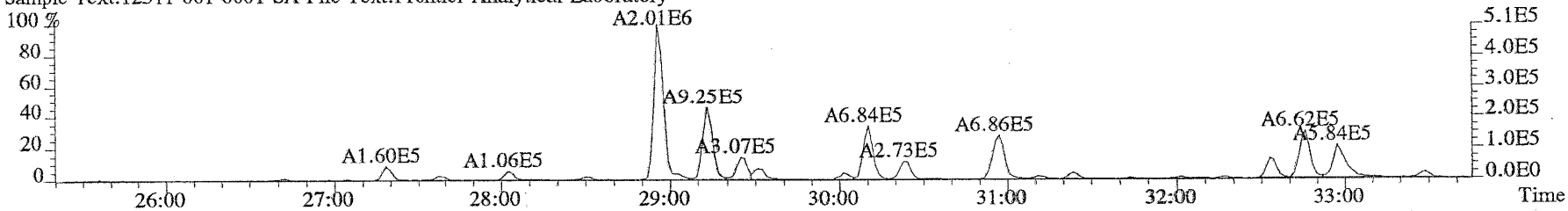
File:02AUG19Z #1-401 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



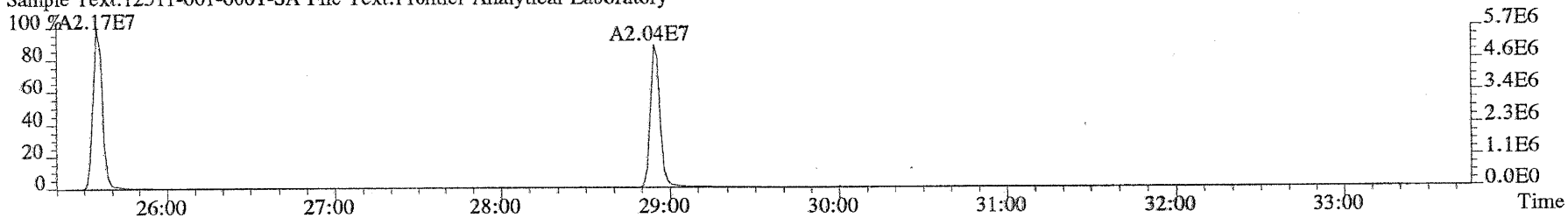
File:02AUG19Z #1-401 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



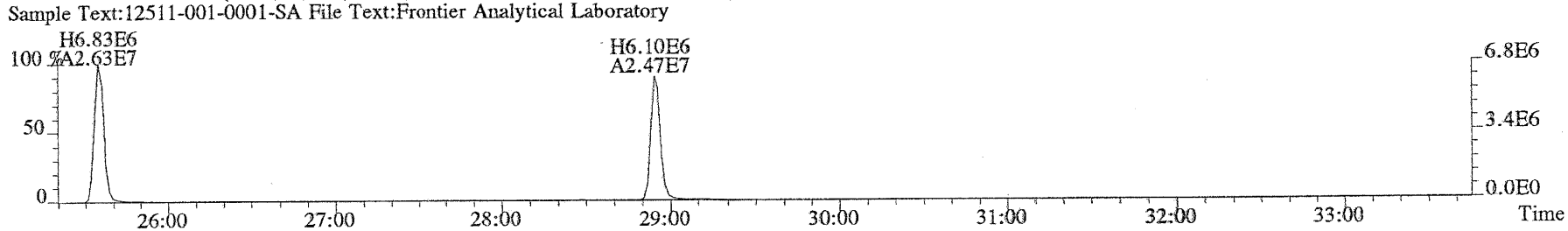
File:02AUG19Z #1-401 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



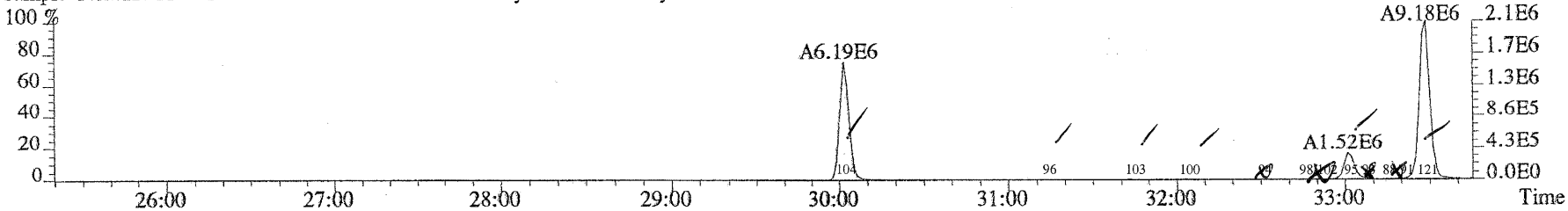
File:02AUG19Z #1-401 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



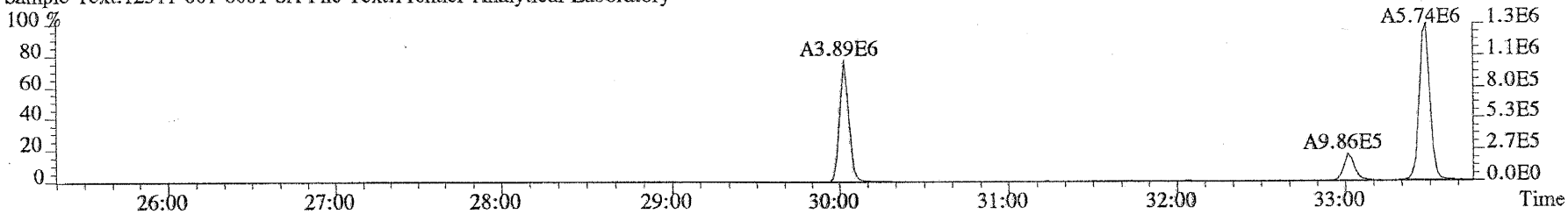
File:02AUG19Z #1-401 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



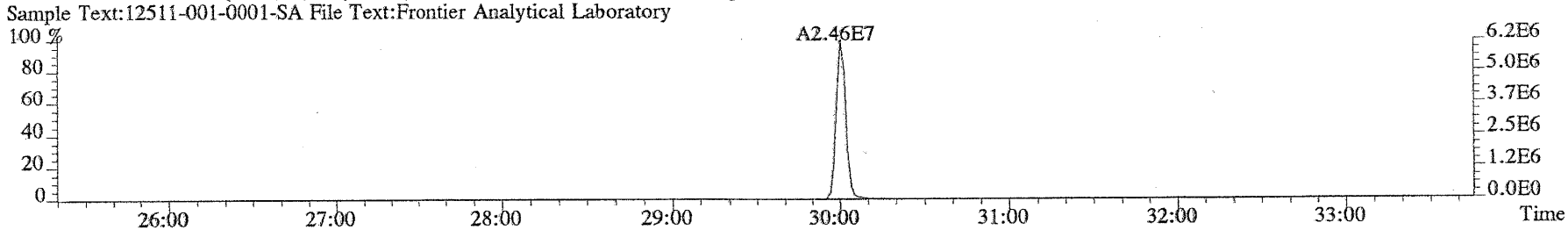
File:02AUG19Z #1-401 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-401 Acq: 2-AUG-2019 10:55:41 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:12511-001-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-401 Acq: 2-AUG-2019 10:55:41 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:12511-001-0001-SA File Text:Frontier Analytical Laboratory



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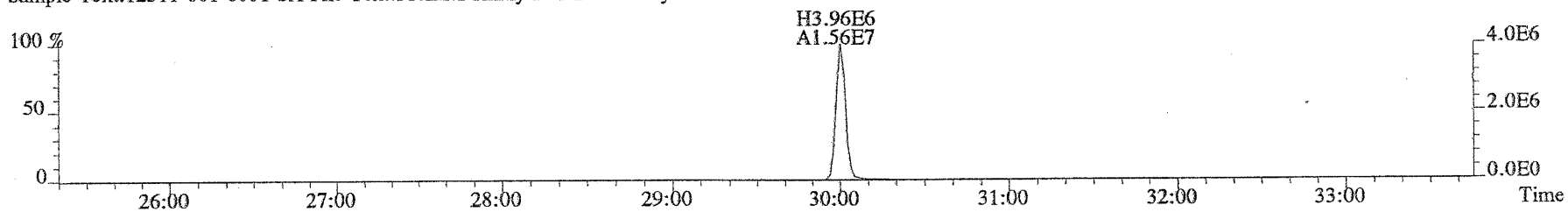
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



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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
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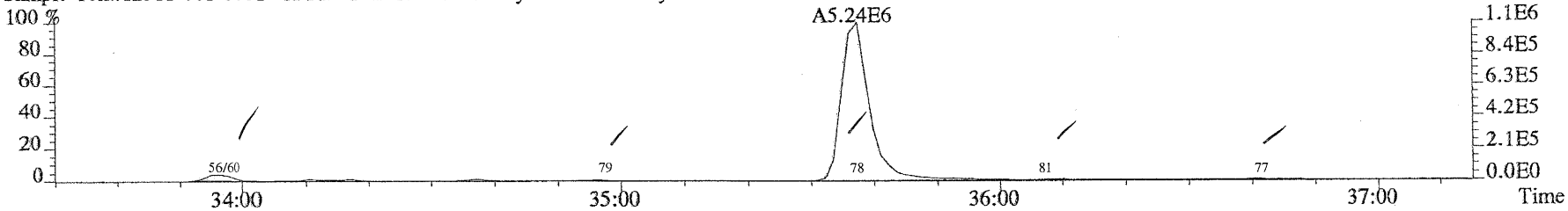

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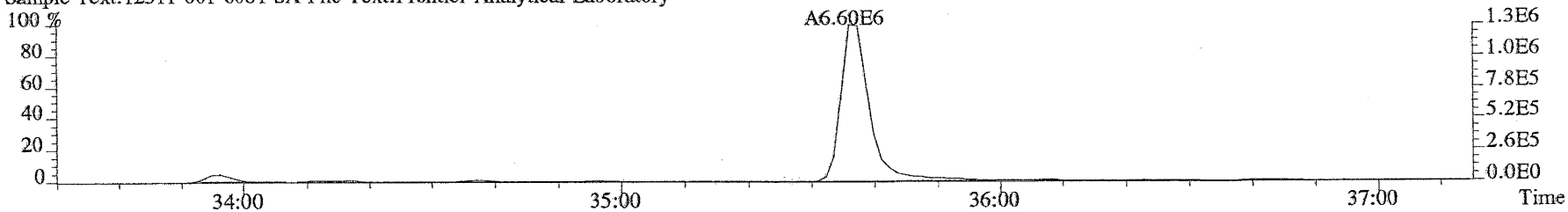

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301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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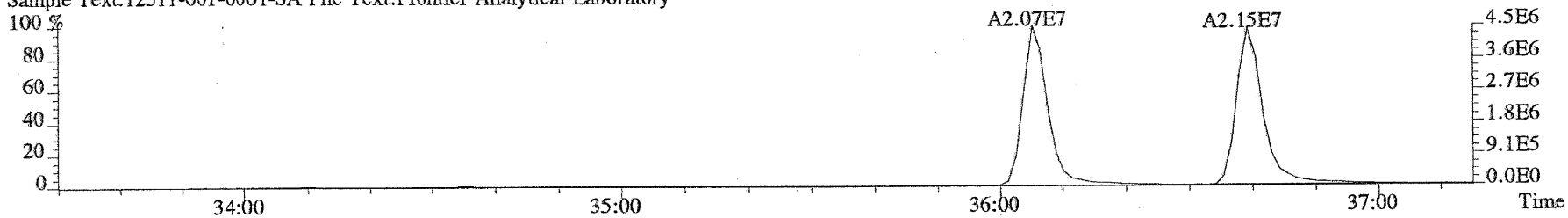

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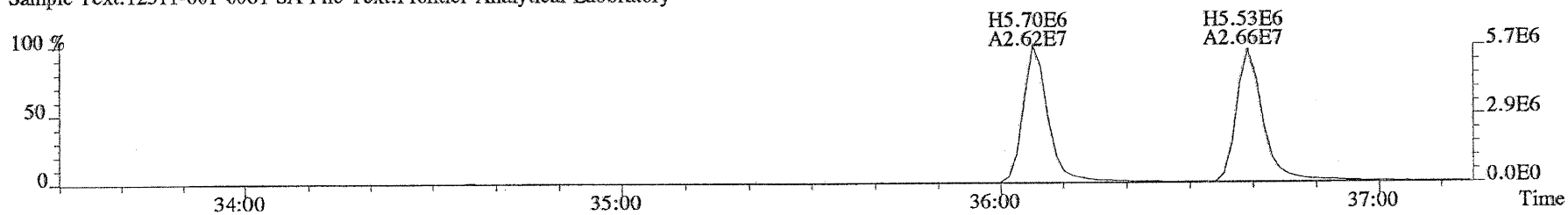
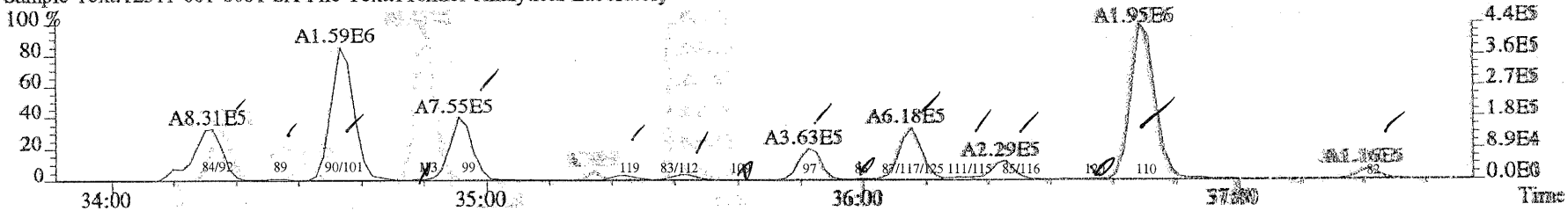
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-180 Acq: 2-AUG-2019 10:55:41 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:12511-001-0001-SA File Text:Frontier Analytical Laboratory



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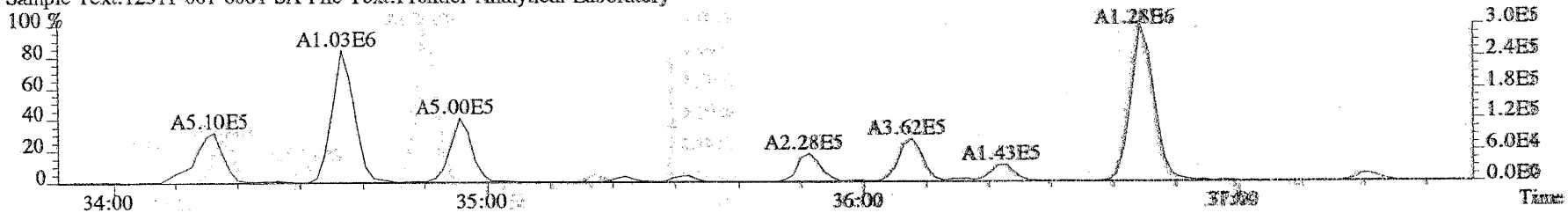
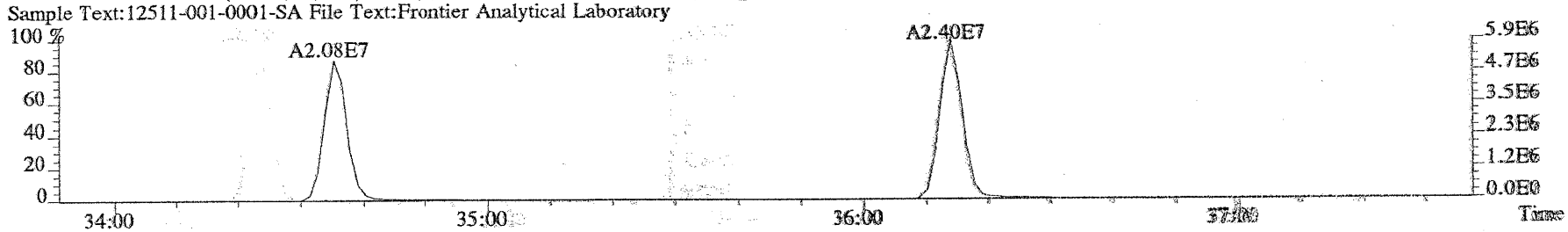
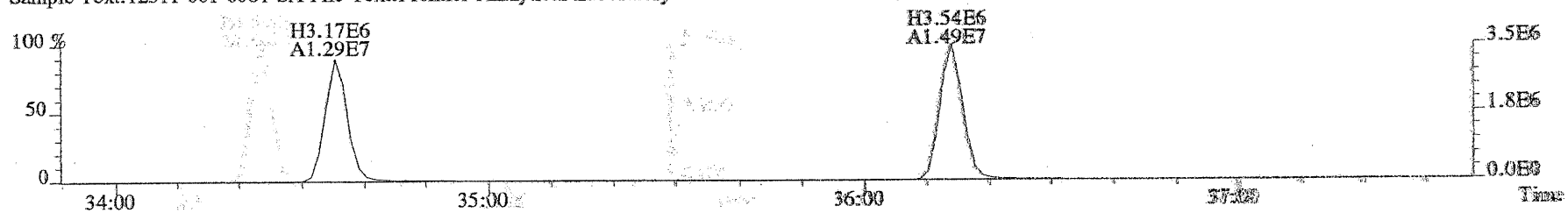
327.8775 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



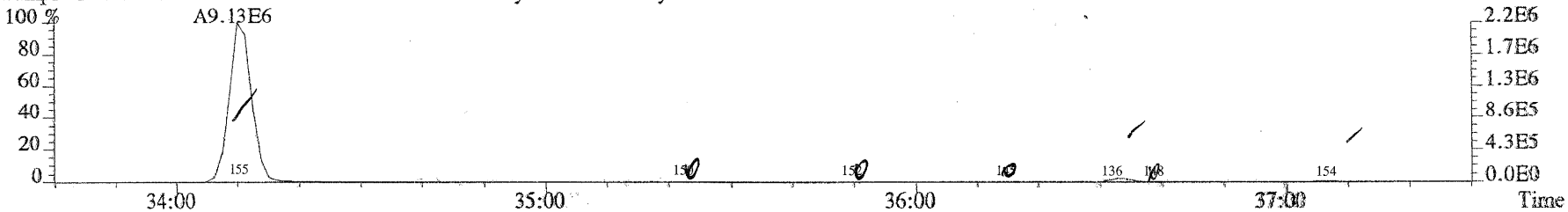
File:02AUG19Z #1-180 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



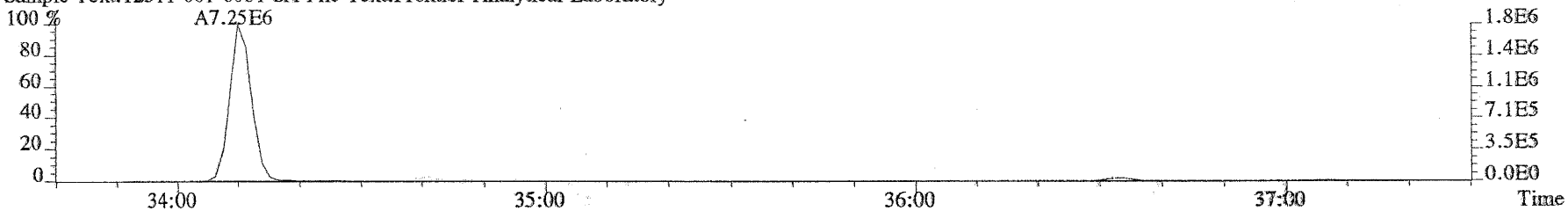
File:02AUG19Z #1-180 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



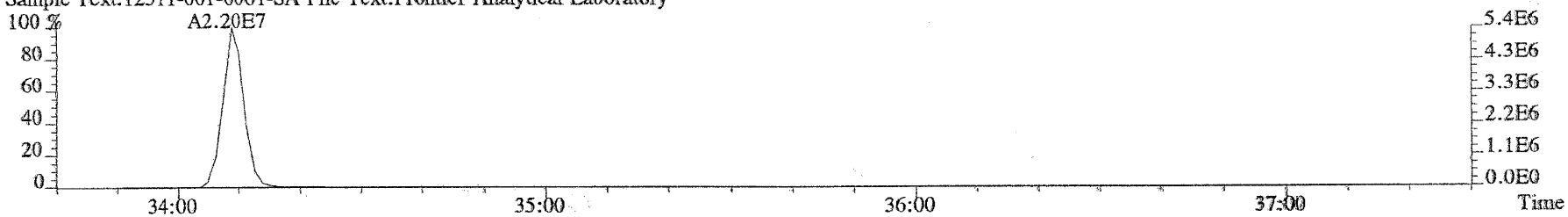
File:02AUG19Z #1-180 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



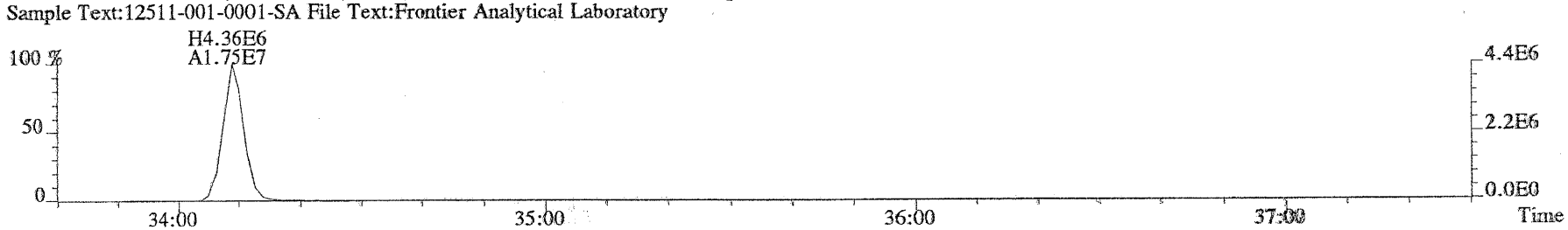
File:02AUG19Z #1-180 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



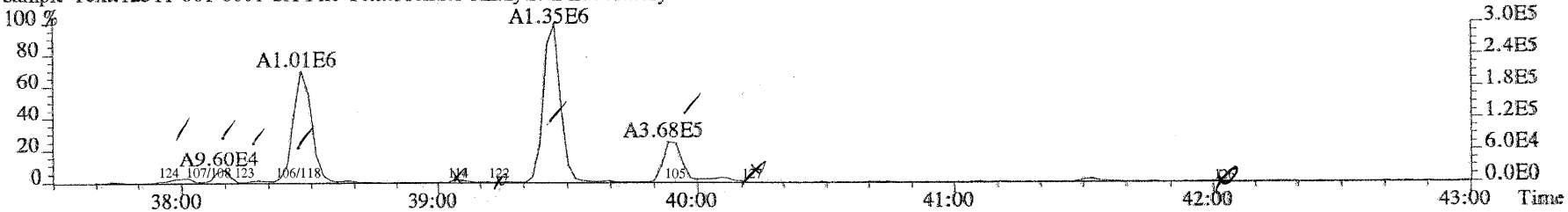
File:02AUG19Z #1-180 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-180 Acq: 2-AUG-2019 10:55:41 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:12511-001-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-406 Acq: 2-AUG-2019 10:55:41 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:12511-001-0001-SA File Text:Frontier Analytical Laboratory



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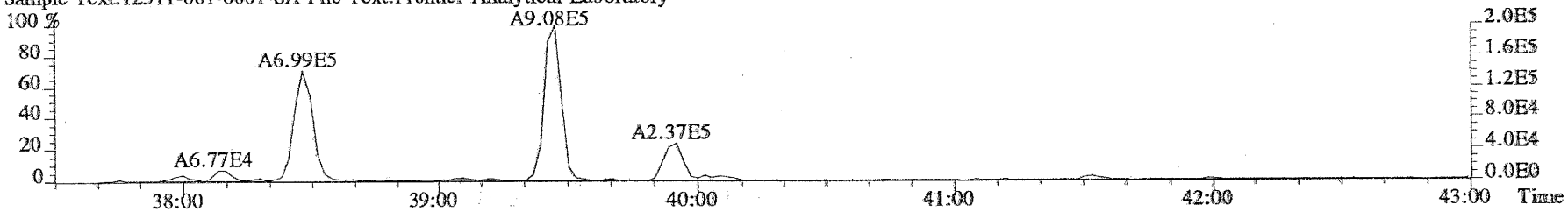
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



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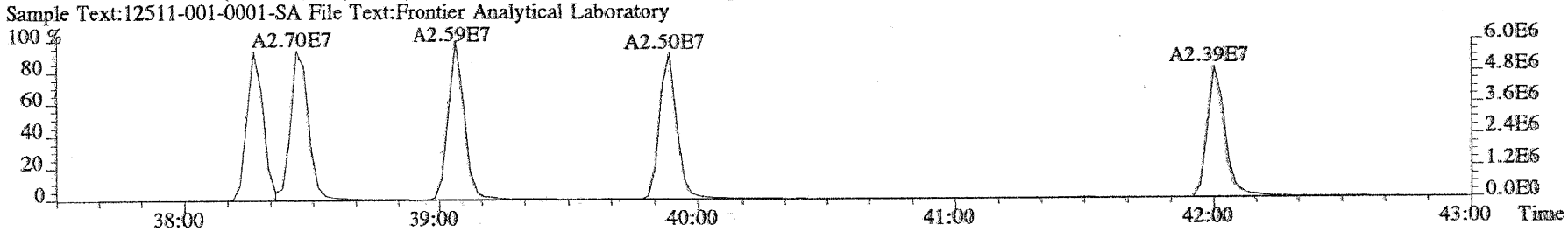

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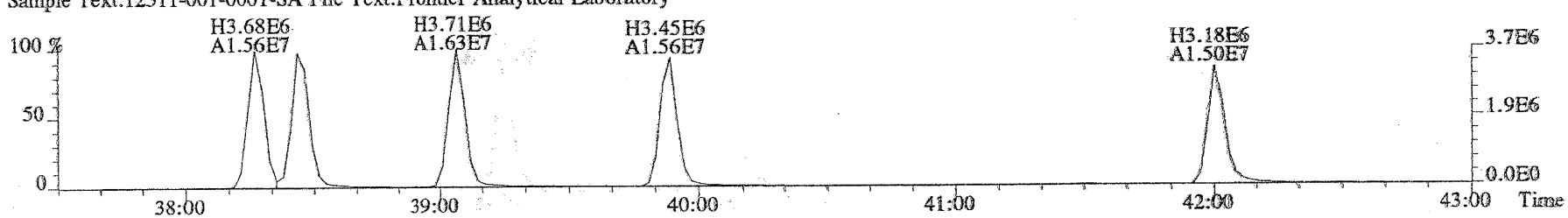
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-406 Acq: 2-AUG-2019 10:55:41 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
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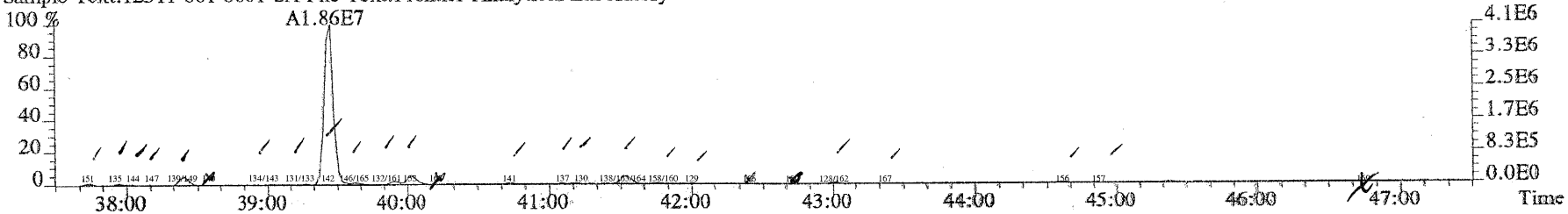

File:02AUG19Z #1-406 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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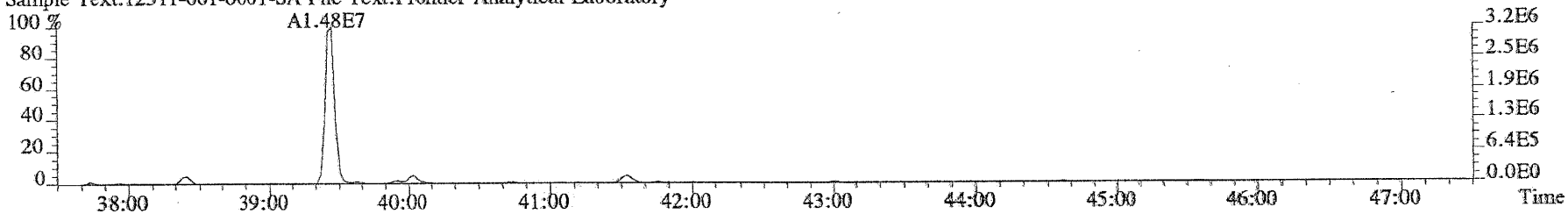

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371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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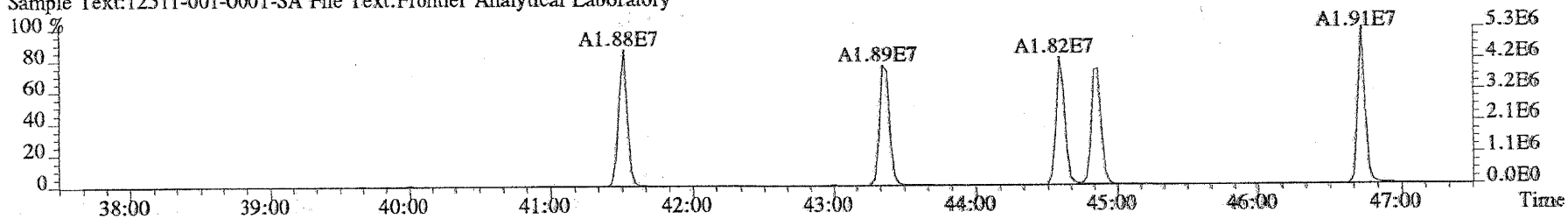

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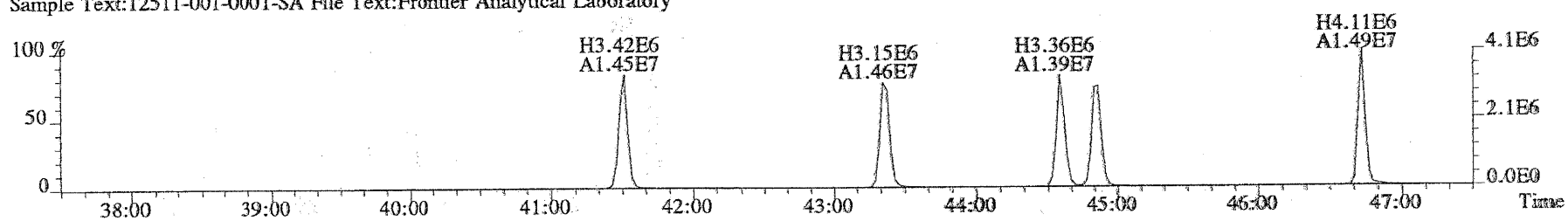
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



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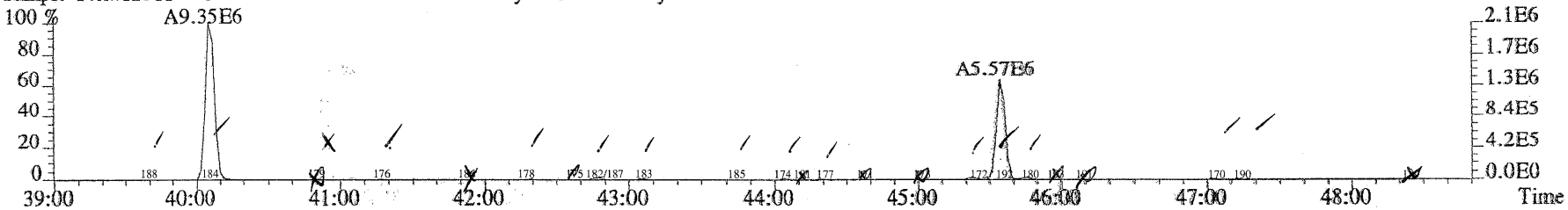
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



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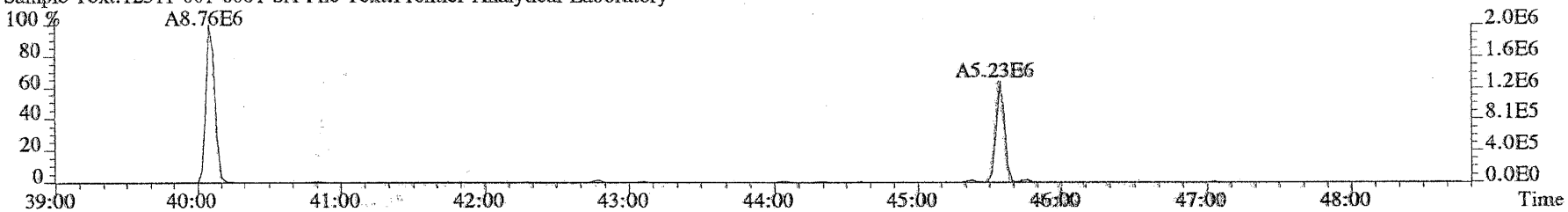
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



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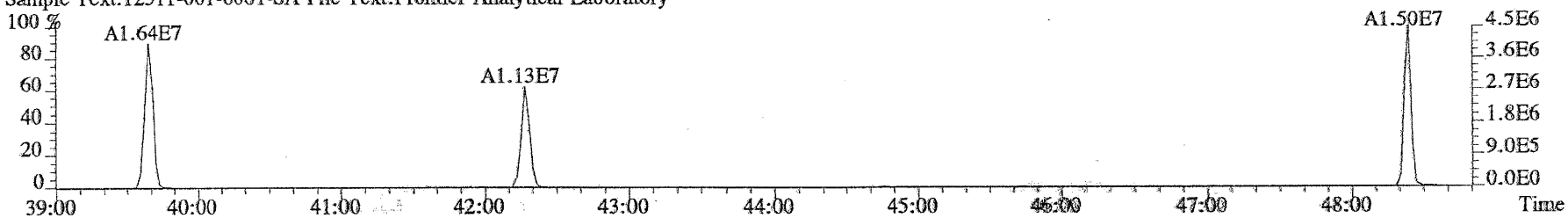
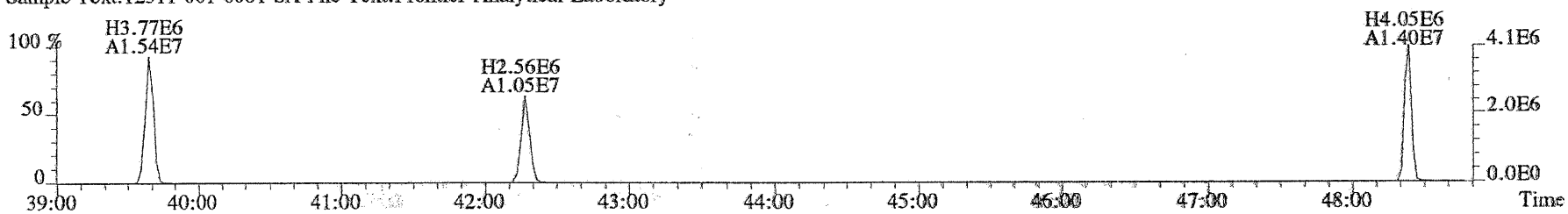
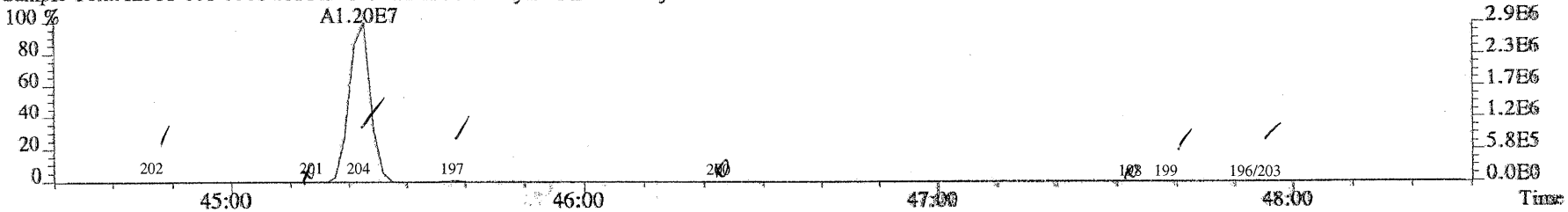
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



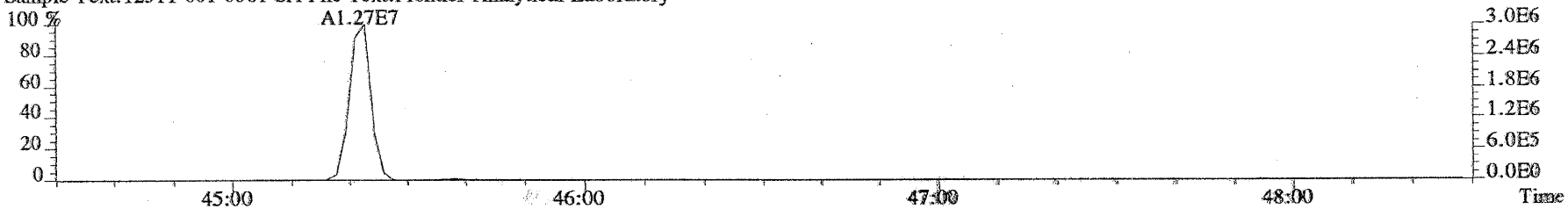
File:02AUG19Z #1-406 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-406 Acq: 2-AUG-2019 10:55:41 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:12511-001-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-406 Acq: 2-AUG-2019 10:55:41 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:12511-001-0001-SA File Text:Frontier Analytical Laboratory



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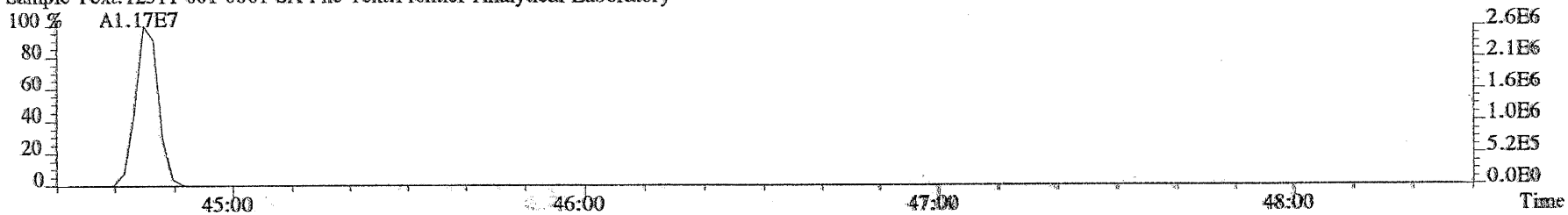
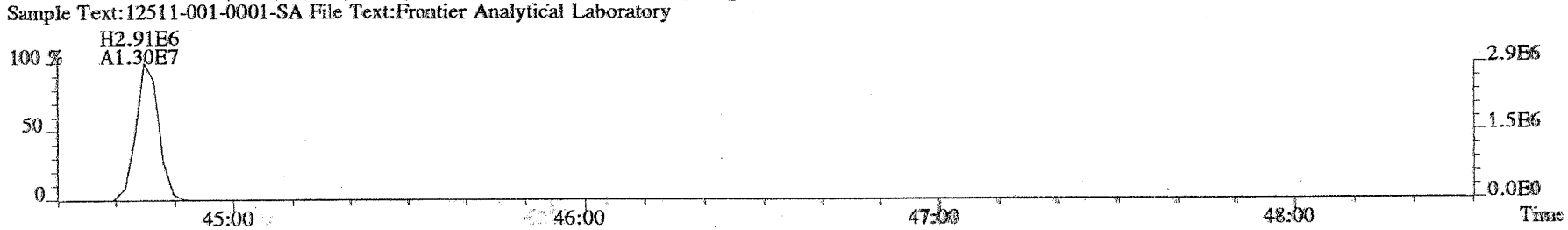
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-406 Acq: 2-AUG-2019 10:55:41 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:12511-001-0001-SA File Text:Frontier Analytical Laboratory



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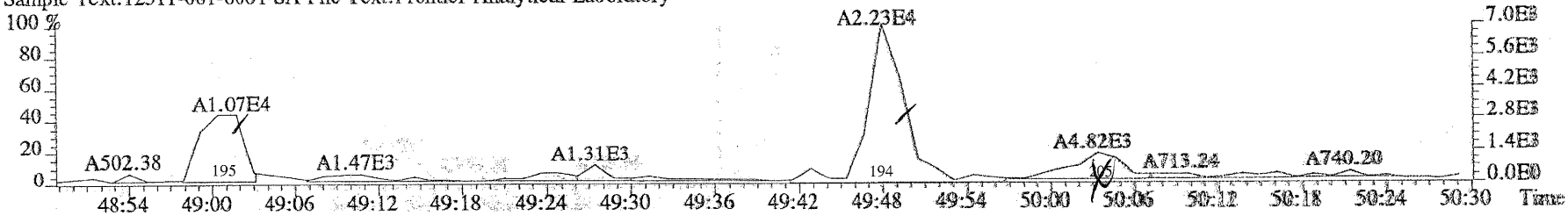
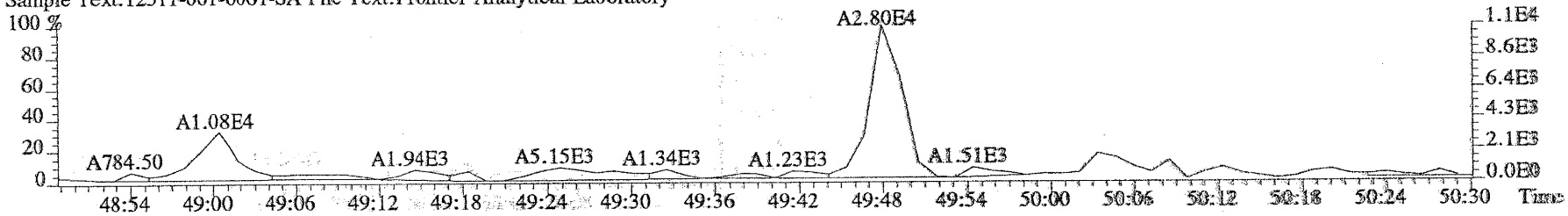
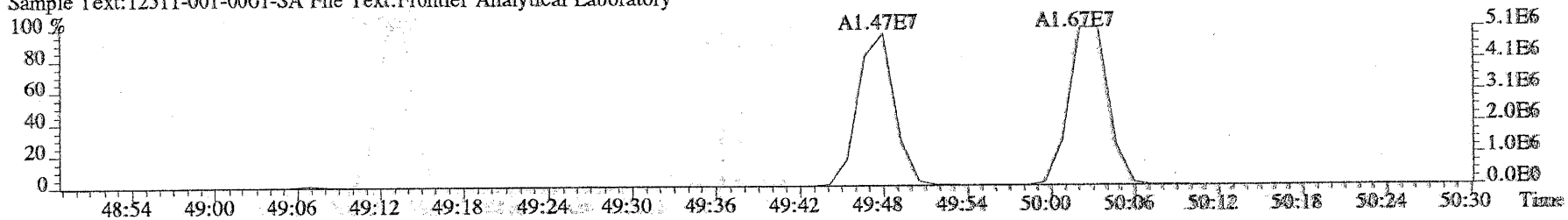
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



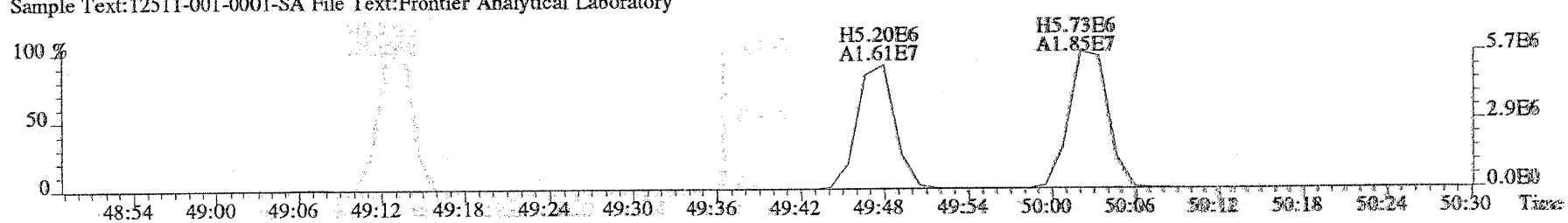
File:02AUG19Z #1-314 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



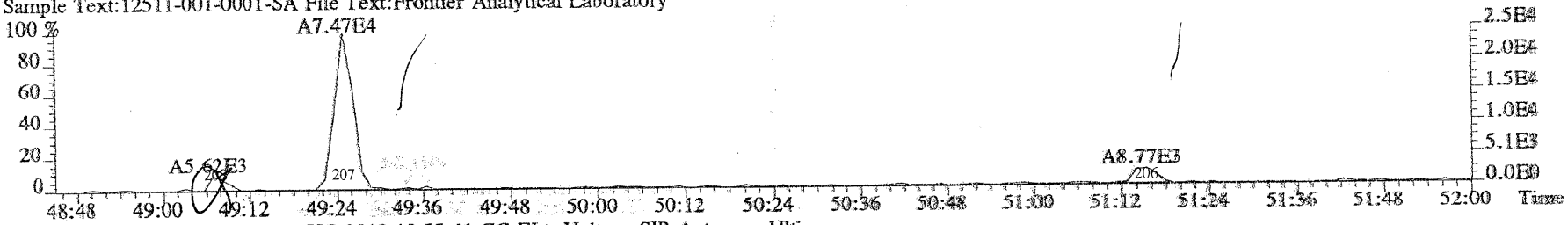
File:02AUG19Z #1-314 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



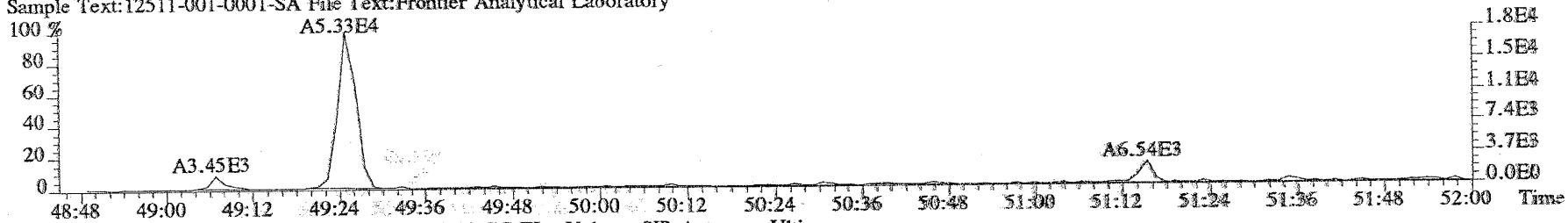
File:02AUG19Z #1-314 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



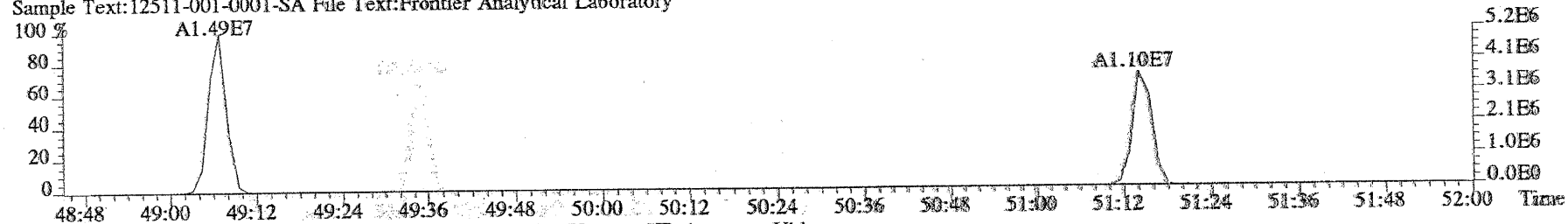
File:02AUG19Z #1-314 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



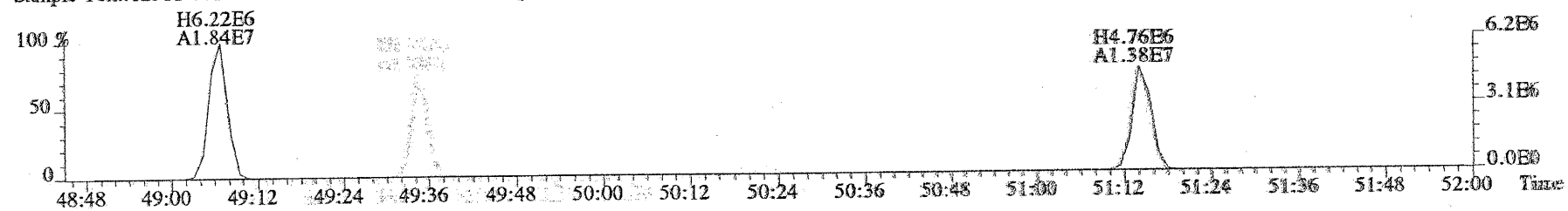
File:02AUG19Z #1-314 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



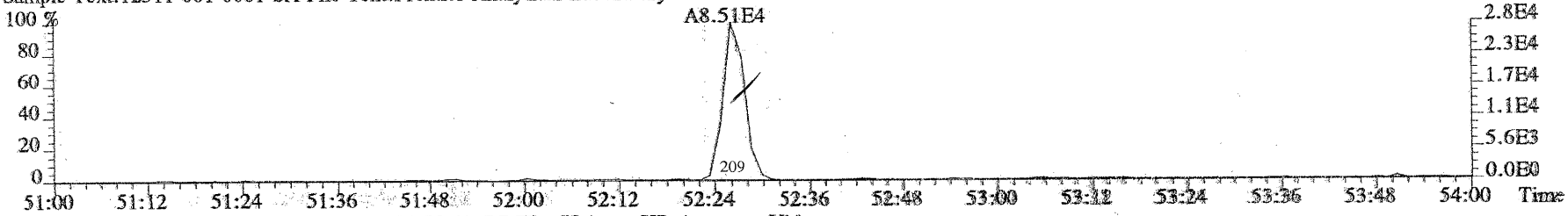
File:02AUG19Z #1-314 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



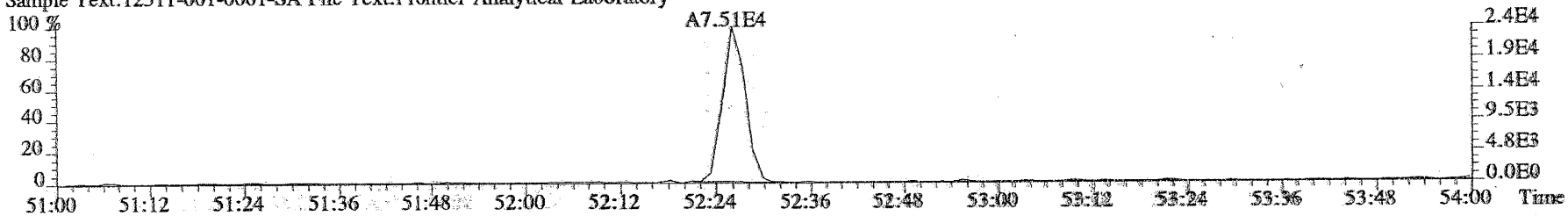
File:02AUG19Z #1-314 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



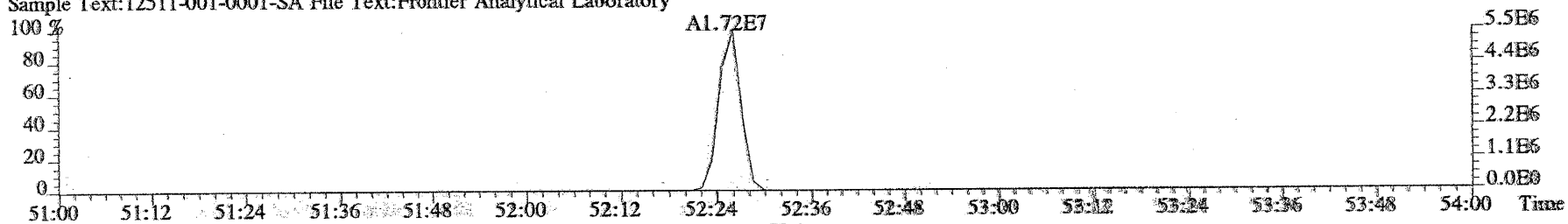
File:02AUG19Z #1-314 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



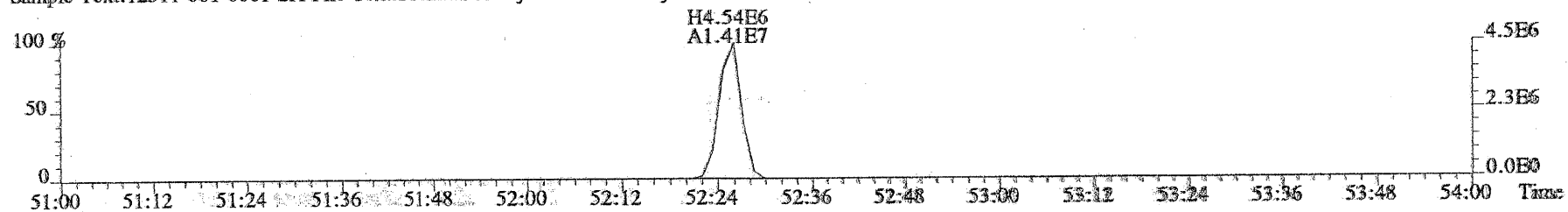
File:02AUG19Z #1-314 Acq: 2-AUG-2019 10:55:41 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-001-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-314 Acq: 2-AUG-2019 10:55:41 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:12511-001-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-314 Acq: 2-AUG-2019 10:55:41 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:12511-001-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12511-002-0001-SA Filename: 02AUG19Z Sam:6 Acquired: 2-AUG-19 11:54:03 ICal: DAILY209FAL4-8-2-19
Client ID: LDW-Y2-IN-ENR+AC-CC-S010 ConCal: ST080219Z1 EndCal: ST080219Z2
Results: 12511-1 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	*		1110	820	2.28	
13C-PCB-1	5.64e+07	3.16 y	14:30	0.90	8200					82.0
PCB-2	*	* n	NotFnd	1.17	*		1110	820	2.41	
PCB-3	*	* n	NotFnd	1.14	*		1110	820	2.63	
13C-PCB-3	5.90e+07	3.35 y	16:57	0.92	8410					84.1
PCB-4	1.10e+05	1.49 y	18:11	1.24	20.5		-	-	*	
PCB-10	*	* n	NotFnd	1.21	*		844	4560	8.47	
13C-PCB-4	4.30e+07	1.54 y	18:10	0.65	8700					87.0
PCB-9	*	* n	NotFnd	1.33	*		844	4560	7.74	
PCB-7	*	* n	NotFnd	1.38	*		844	4560	7.44	
PCB-6	1.23e+05	1.40 y	20:29	1.41	16.8	J	-	-	*	
PCB-8	2.58e+05	1.58 y	20:52	1.29	38.5		-	-	*	
PCB-5	*	* n	NotFnd	1.37	*		844	4560	7.51	
PCB-14	1.31e+06	1.43 y	21:56	1.28	197		-	-	*	
PCB-11	2.16e+05	1.52 y	23:04	1.20	34.7		-	-	*	
PCB-13	*	* n	NotFnd	1.23	*		844	4560	8.33	
PCB-12	*	* n	NotFnd	1.26	*		844	4560	8.17	
PCB-15	1.04e+05	1.52 y	23:43	1.14	15.0	J	-	-	*	
13C-PCB-15	6.07e+07	1.64 y	23:41	0.98	8130					81.3
PCB-19	8.25e+04	1.11 y	22:04	1.22	20.3		-	-	*	
PCB-30	*	* n	NotFnd	1.84	*		1480	464	2.79	
PCB-18	5.66e+05	1.09 y	23:36	1.22	140		-	-	*	
PCB-17	2.52e+05	1.12 y	23:47	1.31	58.2		-	-	*	
PCB-27	5.46e+04	1.07 y	24:18	1.79	9.22	J	-	-	*	
PCB-24	5.80e+04	1.16 y	24:19	1.78	9.84	J	-	-	*	
PCB-16	1.55e+05	1.00 y	24:48	1.47	31.8		-	-	*	
PCB-32	2.17e+05	1.16 y	24:49	1.54	42.3		-	-	*	
13C-PCB-19	3.32e+07	1.08 y	22:03	0.46	9480					94.8
13C-PCB-9	7.61e+07	1.60 y	19:50	-	44.7					
PCB-34	*	* n	NotFnd	1.26	*		1240	800	4.79	
PCB-23	*	* n	NotFnd	1.25	*		1240	800	4.86	
PCB-29	*	* n	NotFnd	1.30	*		1240	800	4.66	
PCB-26	3.54e+05	1.04 y	26:06	1.28	59.3		-	-	*	
PCB-25	1.71e+05	1.11 y	26:14	1.22	29.9		-	-	*	
PCB-31	1.01e+06	1.09 y	26:41	1.25	172		-	-	*	
PCB-28	1.01e+06	1.09 y	26:41	1.46	148		-	-	*	
PCB-20	3.84e+05	1.02 y	27:16	1.20	68.8		-	-	*	Co-elute PCB 21/33
PCB-21	3.84e+05	1.02 y	27:16	1.20	68.8		-	-	*	Co-elute PCB 20/33
PCB-33	3.84e+05	1.02 y	27:16	1.20	68.8		-	-	*	Co-elute PCB 20/21
PCB-22	2.48e+05	1.17 y	27:42	1.28	41.6		-	-	*	
PCB-36	2.93e+06	1.02 y	28:16	1.18	533		-	-	*	
PCB-39	*	* n	NotFnd	1.17	*		1240	800	5.16	
PCB-38	*	* n	NotFnd	1.16	*		1240	800	5.23	
PCB-35	*	* n	NotFnd	1.07	*		1240	800	5.64	
PCB-37	1.41e+05	1.18 y	30:21	1.13	26.7		-	-	*	
13C-PCB-37	4.67e+07	1.07 y	30:21	1.48	8850					88.5

PCB-54	*	*	n	NotFnd	1.26	*		528	816	2.83	
PCB-50	2.57e+04	0.80	y	26:42	0.98	6.89	J	-	-	*	
PCB-53	2.09e+05	0.71	y	27:18	0.97	56.6		-	-	*	
PCB-51	7.06e+04	0.82	y	27:38	1.00	18.5	J	-	-	*	
PCB-45	1.56e+05	0.75	y	28:02	0.84	48.8		-	-	*	
PCB-46	5.76e+04	0.80	y	28:31	0.80	19.0	J	-	-	*	
PCB-52	1.95e+06	0.80	y	28:56	0.97	532		-	-	*	Co-elute PCB 69
PCB-69	1.95e+06	0.80	y	28:56	0.97	532		-	-	*	Co-elute PCB 52
PCB-73	7.58e+04	0.71	y	29:03	1.27	15.7	J	-	-	*	
PCB-43	1.01e+06	0.79	y	29:14	0.87	305		-	-	*	Co-elute PCB 49
PCB-49	1.01e+06	0.79	y	29:14	0.87	305		-	-	*	Co-elute PCB 43
PCB-47	3.60e+05	0.81	y	29:25	0.92	103		-	-	*	
PCB-48	1.92e+05	0.81	y	29:30	1.07	47.2		-	-	*	Co-elute PCB 75
PCB-75	1.92e+05	0.81	y	29:30	1.07	47.2		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.06	*		528	816	3.36	
PCB-62	*	*	n	NotFnd	1.16	*		528	816	3.08	
PCB-44	7.86e+05	0.82	y	30:10	0.72	287		-	-	*	
PCB-42	3.07e+05	0.82	y	30:23	0.94	85.7		-	-	*	Co-elute PCB 59
PCB-59	3.07e+05	0.82	y	30:23	0.94	85.7		-	-	*	Co-elute PCB 42
PCB-72	7.89e+05	0.80	y	30:56	1.06	196		-	-	*	Co-elute PCB 41/71/64
PCB-41	7.89e+05	0.80	y	30:56	1.06	196		-	-	*	Co-elute PCB 72/71/64
PCB-71	7.89e+05	0.80	y	30:56	1.06	196		-	-	*	Co-elute PCB 72/41/64
PCB-64	7.89e+05	0.80	y	30:56	1.06	196		-	-	*	Co-elute PCB 72/41/71
PCB-68	5.82e+04	0.76	y	31:11	1.21	12.7	J	-	-	*	
PCB-40	9.77e+04	0.86	y	31:24	0.66	39.1		-	-	*	
PCB-57	2.39e+04	0.75	y	31:44	1.09	5.76	J	-	-	*	
PCB-67	3.27e+04	0.77	y	32:02	1.08	7.96	J	-	-	*	
PCB-58	*	*	n	NotFnd	1.10	*		528	816	3.24	
PCB-63	3.89e+04	0.79	y	32:17	1.10	9.27	J	-	-	*	
PCB-74	3.08e+05	0.79	y	32:34	1.08	75.2		-	-	*	
PCB-61	7.10e+05	0.86	y	32:45	1.03	181		-	-	*	Co-elute PCB 70
PCB-70	7.10e+05	0.86	y	32:45	1.03	181		-	-	*	Co-elute PCB 61
PCB-76	7.24e+05	0.77	y	32:58	1.13	169		-	-	*	Co-elute PCB 66
PCB-66	7.24e+05	0.77	y	32:58	1.13	169		-	-	*	Co-elute PCB 76
PCB-80	4.63e+04	0.86	y	33:10	1.30	9.40	J	-	-	*	
PCB-55	1.68e+05	0.76	y	33:28	1.13	39.1		-	-	*	
13C-PCB-54	3.80e+07	0.83	y	25:35	1.20	8900					89.0
PCB-104	7.18e+06	1.60	y	30:02	1.11	2020		-	-	*	
PCB-96	2.27e+04	1.54	y	31:14	1.05	6.78	J	-	-	*	
PCB-103	2.94e+04	1.47	y	31:43	0.84	10.9	J	-	-	*	
PCB-100	3.18e+04	1.32	y	32:03	0.83	11.9	J	-	-	*	
PCB-94	*	*	n	NotFnd	0.69	*		160	340	2.31	
PCB-98	*	*	n	NotFnd	0.72	*		160	340	2.22	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.72	*		160	340	2.22	Co-elute PCB 98
PCB-95	1.36e+06	1.57	y	33:01	0.71	595		-	-	*	
PCB-93	*	*	n	NotFnd	0.69	*		160	340	2.28	
PCB-88	*	*	n	NotFnd	0.77	*		160	340	2.07	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.77	*		160	340	2.07	Co-elute PCB 88
PCB-121	1.11e+07	1.56	y	33:28	0.93	3740		-	-	*	
13C-PCB-104	3.20e+07	1.62	y	29:59	0.92	9720					97.2
13C-PCB-28	6.23e+07	1.05	y	26:40	1.83	9550					95.5
13C-PCB-52	3.57e+07	0.82	y	28:55	-	44.1					

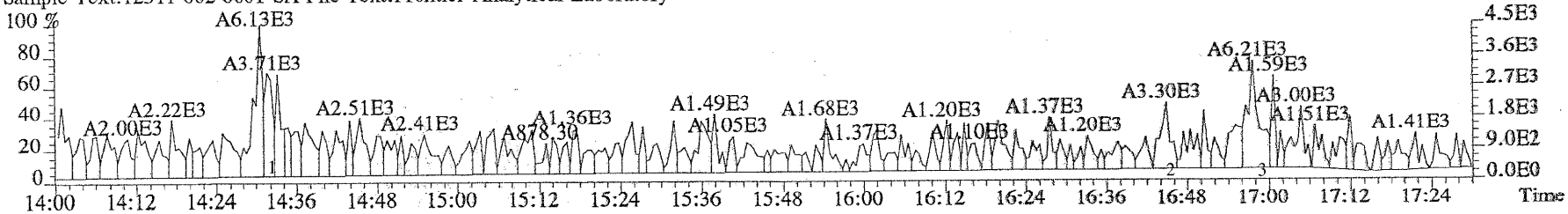
PCB-56	3.56e+05	0.76	y	33:56	1.26	73.3		-	-	*	Co-elute PCB 60
PCB-60	3.56e+05	0.76	y	33:56	1.26	73.3		-	-	*	Co-elute PCB 56
PCB-79	3.80e+04	0.70	y	34:55	1.19	8.30	J	-	-	*	
PCB-78	9.13e+06	0.80	y	35:37	1.10	2160		-	-	*	
PCB-81	1.29e+05	0.71	y	36:07	1.24	27.2		-	-	*	
13C-PCB-81	3.83e+07	0.81	y	36:06	1.38	10600					106
PCB-77	5.71e+04	0.84	y	36:40	1.05	14.1	J	-	-	*	
13C-PCB-77	3.86e+07	0.81	y	36:39	1.43	10300					103
PCB-155	1.17e+07	1.28	y	34:11	1.03	3690		-	-	*	
PCB-150	*	*	n	NotFnd	0.99	*		364	292	2.28	
PCB-152	*	*	n	NotFnd	0.90	*		364	292	2.51	
PCB-145	*	*	n	NotFnd	0.86	*		364	292	2.63	
PCB-136	2.25e+05	1.25	y	36:34	0.81	90.5		-	-	*	
PCB-148	*	*	n	NotFnd	0.60	*		364	292	3.73	
PCB-154	6.04e+04	1.26	y	37:06	0.68	28.9		-	-	*	
13C-PCB-155	3.07e+07	1.27	y	34:08	1.23	9480					94.8
13C-PCB-111	2.96e+07	1.61	y	36:13	1.08	10400					104
13C-PCB-101	2.63e+07	1.63	y	34:36	-	42.4					
PCB-84	7.76e+05	1.54	y	34:16	0.87	263		-	-	*	Co-elute PCB 92
PCB-92	7.76e+05	1.54	y	34:16	0.87	263		-	-	*	Co-elute PCB 84
PCB-89	2.76e+04	1.37	y	34:25	0.87	9.39	J	-	-	*	
PCB-90	1.47e+06	1.58	y	34:37	0.98	447		-	-	*	Co-elute PCB 101
PCB-101	1.47e+06	1.58	y	34:37	0.98	447		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*		1610	1350	8.98	
PCB-99	7.28e+05	1.59	y	34:56	1.12	193		-	-	*	
PCB-119	6.32e+04	1.56	y	35:22	1.20	15.6	J	-	-	*	
PCB-83	8.64e+04	1.41	y	35:30	0.88	29.1		-	-	*	Co-elute PCB 112
PCB-112	8.64e+04	1.41	y	35:30	0.88	29.1		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.06	*		1610	1350	9.23	
PCB-97	3.18e+04	1.77	y	35:58	0.72	13.1	J	-	-	*	
PCB-86	*	*	n	NotFnd	0.71	*		1610	1350	13.8	
PCB-125	5.58e+05	1.67	y	36:07	0.95	174		-	-	*	Co-elute PCB 87/117
PCB-87	5.58e+05	1.67	y	36:07	0.95	174		-	-	*	Co-elute PCB 125/117
PCB-117	5.58e+05	1.67	y	36:07	0.95	174		-	-	*	Co-elute PCB 125/87
PCB-111	3.64e+04	1.32	y	36:16	1.15	9.38	J	-	-	*	Co-elute PCB 115
PCB-115	3.64e+04	1.32	y	36:16	1.15	9.38	J	-	-	*	Co-elute PCB 111
PCB-85	2.09e+05	1.69	y	36:22	0.87	71.3		-	-	*	Co-elute PCB 116
PCB-116	2.09e+05	1.69	y	36:22	0.87	71.3		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.13	*		1610	1350	8.71	
PCB-110	1.82e+06	1.53	y	36:45	1.04	522		-	-	*	
PCB-82	1.07e+05	1.61	y	37:22	0.60	52.7		-	-	*	
PCB-124	5.71e+04	1.65	y	38:00	1.04	16.3	J	-	-	*	
PCB-108	1.01e+05	1.52	y	38:09	1.10	27.1		-	-	*	Co-elute PCB 107
PCB-107	1.01e+05	1.52	y	38:09	1.10	27.1		-	-	*	Co-elute PCB 108
PCB-123	2.47e+04	1.37	y	38:17	1.05	7.25	J	-	-	*	
13C-PCB-123	3.24e+07	1.58	y	38:17	1.31	9460					94.6
PCB-118	1.04e+06	1.45	y	38:28	1.04	281		-	-	*	Co-elute PCB 106
PCB-106	1.04e+06	1.45	y	38:28	1.04	281		-	-	*	Co-elute PCB 118
13C-PCB-118	3.55e+07	1.59	y	38:27	1.51	9020					90.2
PCB-114	*	*	n	NotFnd	1.11	*		652	792	4.50	
13C-PCB-114	3.44e+07	1.61	y	39:05	1.42	9300					93.0
PCB-122	*	*	n	NotFnd	1.07	*		652	792	4.47	
PCB-105	3.70e+05	1.53	y	39:54	1.13	100		-	-	*	
13C-PCB-105	3.25e+07	1.60	y	39:52	1.44	8660					86.6

PCB-127	*	*	n	NotFnd	1.05	*		652	792	4.56		
PCB-126	*	*	n	NotFnd	1.08	*		652	792	5.27		
13C-PCB-126	3.16e+07	1.60	y	42:01	1.36	8900					89.0	
PCB-151	2.09e+05	1.35	y	37:44	0.76	102		-	-	*		
PCB-135	1.65e+05	1.35	y	37:56	0.78	77.8		-	-	*		
PCB-144	4.54e+04	1.34	y	38:02	0.80	20.9		-	-	*		
PCB-147	3.71e+04	1.18	y	38:10	0.92	15.0	J	-	-	*		
PCB-139	9.38e+05	1.30	y	38:24	0.89	390		-	-	*	Co-elute PCB 149	
PCB-149	9.38e+05	1.30	y	38:24	0.89	390		-	-	*	Co-elute PCB 139	
PCB-140	*	*	n	NotFnd	0.87	*		640	516	5.16		
PCB-143	6.80e+04	1.21	y	39:01	0.75	33.6		-	-	*	Co-elute PCB 134	
PCB-134	6.80e+04	1.21	y	39:01	0.75	33.6		-	-	*	Co-elute PCB 143	
PCB-131	3.62e+04	1.12	y	39:16	0.72	18.6	J	-	-	*	Co-elute PCB 133	
PCB-133	3.62e+04	1.12	y	39:16	0.72	18.6	J	-	-	*	Co-elute PCB 131	
PCB-142	2.47e+07	1.27	y	39:26	0.74	12400		-	-	*		
PCB-165	3.18e+05	1.12	y	39:38	1.01	116		-	-	*	Co-elute PCB 146	
PCB-146	3.18e+05	1.12	y	39:38	1.01	116		-	-	*	Co-elute PCB 165	
PCB-161	3.53e+05	1.10	y	39:54	0.94	139		-	-	*	Co-elute PCB 132	
PCB-132	3.53e+05	1.10	y	39:54	0.94	139		-	-	*	Co-elute PCB 161	
PCB-153	1.12e+06	1.23	y	40:01	0.96	430		-	-	*		
PCB-168	*	*	n	NotFnd	1.09	*		640	516	4.08		
PCB-141	1.53e+05	1.32	y	40:43	0.79	71.2		-	-	*		
PCB-137	5.31e+04	1.38	y	41:06	0.83	23.6		-	-	*		
PCB-130	6.13e+04	1.37	y	41:11	0.69	32.7		-	-	*		
PCB-138	9.88e+05	1.25	y	41:31	1.03	356		-	-	*	Co-elute PCB 163/164	
PCB-163	9.88e+05	1.25	y	41:31	1.03	356		-	-	*	Co-elute PCB 138/164	
PCB-164	9.88e+05	1.25	y	41:31	1.03	356		-	-	*	Co-elute PCB 138/163	
PCB-158	1.28e+05	1.17	y	41:46	1.13	42.2		-	-	*	Co-elute PCB 160	
PCB-160	1.28e+05	1.17	y	41:46	1.13	42.2		-	-	*	Co-elute PCB 158	
PCB-129	3.87e+04	1.25	y	41:59	0.70	20.5		-	-	*		
PCB-166	*	*	n	NotFnd	1.09	*		640	516	4.10		
PCB-159	3.33e+04	1.20	y	42:45	1.17	10.5	J	-	-	*		
PCB-128	1.35e+05	1.36	y	43:00	0.93	53.2		-	-	*	Co-elute PCB 162	
PCB-162	1.35e+05	1.36	y	43:00	0.93	53.2		-	-	*	Co-elute PCB 128	
PCB-167	4.28e+04	1.26	y	43:21	1.11	13.9	J	-	-	*		
13C-PCB-167	2.76e+07	1.29	y	43:21	1.22	8720					87.2	
PCB-156	6.61e+04	1.30	y	44:36	1.20	21.1		-	-	*		
13C-PCB-156	2.63e+07	1.31	y	44:36	1.23	8200					82.0	
PCB-157	*	*	n	NotFnd	1.11	*		640	516	4.03		
13C-PCB-157	2.77e+07	1.30	y	44:50	1.25	8520					85.2	
PCB-169	*	*	n	NotFnd	1.05	*		640	516	4.12		
13C-PCB-169	2.65e+07	1.28	y	46:42	1.28	7940					79.4	

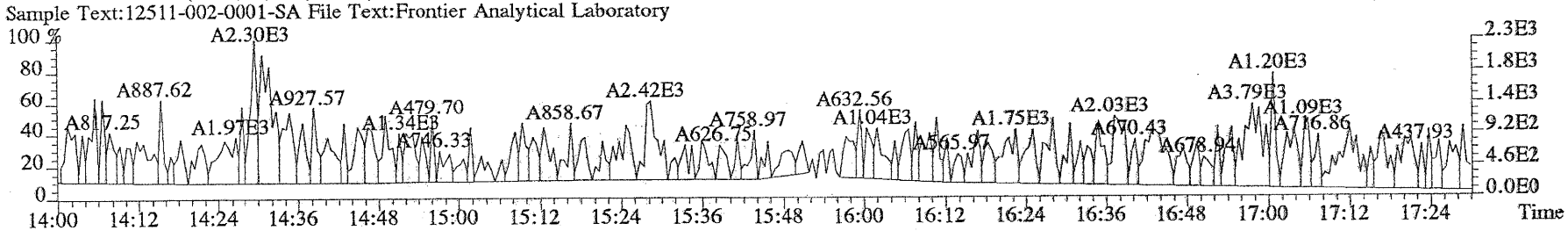
PCB-188	2.82e+04	1.05	y	39:41	1.07	10.5	J	-	-	*	
13C-PCB-188	2.50e+07	1.04	y	39:39	1.05	9160					91.6
PCB-184	1.43e+07	1.06	y	40:06	1.06	5390		-	-	*	
PCB-179	1.01e+05	1.02	y	40:50	1.03	39.2		-	-	*	
PCB-176	2.73e+04	1.14	y	41:16	1.03	10.6	J	-	-	*	
PCB-186	*	*	n	NotFnd	1.02	*		584	272	3.09	
PCB-178	3.40e+04	1.18	y	42:19	0.66	20.5		-	-	*	
PCB-175	*	*	n	NotFnd	0.78	*		584	272	4.07	
PCB-187	1.62e+05	1.20	y	42:47	0.83	77.7		-	-	*	Co-elute PCB 182
PCB-182	1.62e+05	1.20	y	42:47	0.83	77.7		-	-	*	Co-elute PCB 187
PCB-183	8.15e+04	1.11	y	43:05	0.81	40.0		-	-	*	
PCB-185	*	*	n	NotFnd	0.72	*		584	272	4.36	
PCB-174	1.00e+05	1.16	y	44:04	0.72	55.5		-	-	*	
PCB-181	*	*	n	NotFnd	0.81	*		584	272	3.88	
PCB-177	6.05e+04	1.07	y	44:19	0.65	37.0		-	-	*	
PCB-171	3.75e+04	1.18	y	44:37	0.76	19.6	J	-	-	*	
PCB-173	*	*	n	NotFnd	0.69	*		584	272	4.57	
PCB-172	2.39e+05	1.11	y	45:22	0.73	130		-	-	*	
PCB-192	9.27e+06	1.07	y	45:35	0.96	3820		-	-	*	
PCB-180	2.21e+05	1.04	y	45:45	0.73	120		-	-	*	
PCB-193	*	*	n	NotFnd	1.03	*		584	272	3.06	
PCB-191	*	*	n	NotFnd	1.02	*		584	272	3.09	
PCB-170	6.88e+04	0.95	y	47:04	0.73	37.4		-	-	*	
PCB-190	2.18e+04	1.03	y	47:12	1.05	8.28	J	-	-	*	
PCB-189	*	*	n	NotFnd	1.06	*		584	272	2.40	
13C-PCB-189	2.53e+07	1.06	y	48:23	1.06	9140					91.4
PCB-202	*	*	n	NotFnd	1.05	*		208	332	2.50	
PCB-201	*	*	n	NotFnd	1.01	*		208	332	2.60	
PCB-204	2.11e+07	0.94	y	45:22	1.13	9100		-	-	*	
PCB-197	1.34e+05	0.97	y	45:38	1.10	59.9		-	-	*	
PCB-200	*	*	n	NotFnd	1.04	*		208	332	2.52	
PCB-198	*	*	n	NotFnd	0.76	*		208	332	3.47	
PCB-199	3.60e+04	0.94	y	47:40	0.86	20.5		-	-	*	
PCB-203	3.97e+04	0.78	y	47:55	0.93	20.9		-	-	*	Co-elute PCB 196
PCB-196	3.97e+04	0.78	y	47:55	0.93	20.9		-	-	*	Co-elute PCB 203
13C-PCB-202	2.04e+07	0.91	y	44:45	0.85	9220					92.2
13C-PCB-178	1.73e+07	1.07	y	42:17	0.66	10000					100
13C-PCB-138	2.61e+07	1.29	y	41:30	-	51.3					
PCB-195	1.79e+04	0.84	y	49:00	0.78	7.49	J	-	-	*	
PCB-194	3.94e+04	0.85	y	49:48	0.85	15.1	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.10	*		732	752	2.99	
13C-PCB-205	3.06e+07	0.91	y	50:02	1.30	9250					92.5
PCB-208	*	*	n	NotFnd	1.06	*		748	776	3.73	
13C-PCB-208	2.67e+07	0.79	y	49:06	1.20	8750					87.5
PCB-207	1.09e+05	1.39	y	49:25	1.18	38.9		-	-	*	
PCB-206	*	*	n	NotFnd	1.07	*		748	776	4.82	
13C-PCB-206	2.09e+07	0.80	y	51:14	0.94	8760					87.6
PCB-209	1.38e+05	1.18	y	52:26	1.12	47.4		-	-	*	
13C-PCB-209	2.60e+07	1.20	y	52:25	1.22	8410					84.1
13C-PCB-194	2.55e+07	0.91	y	49:47	-	49.7					

Analyst: [illegible] Date: 8/5/19

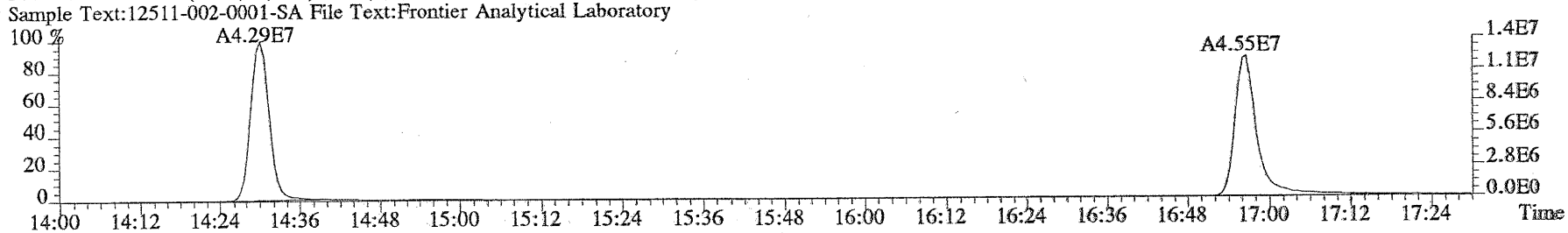
File:02AUG19Z #1-784 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



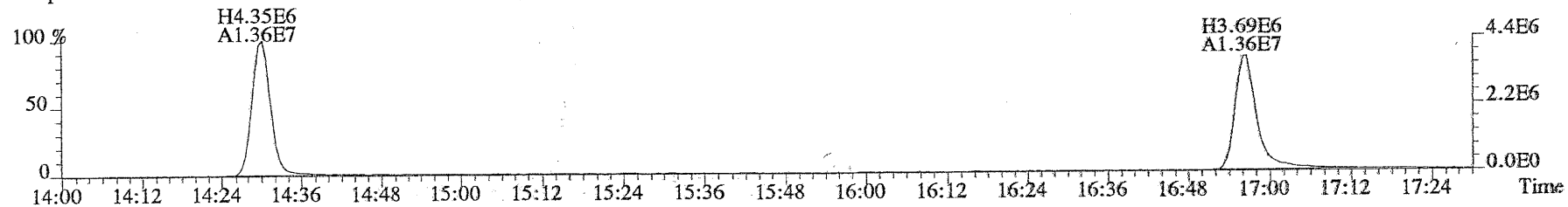
File:02AUG19Z #1-784 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



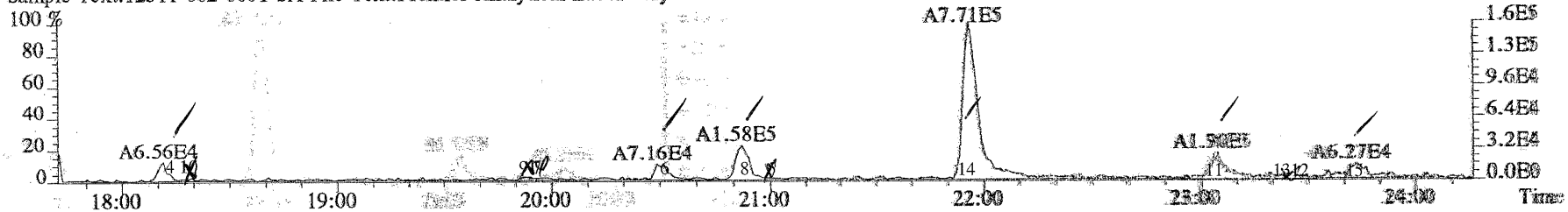
File:02AUG19Z #1-784 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



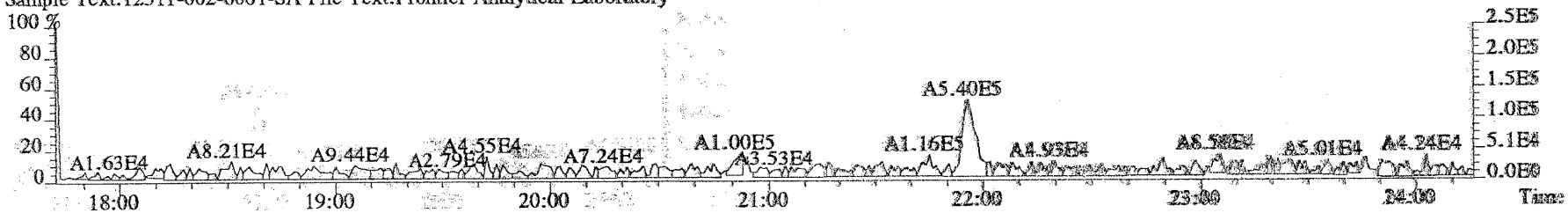
File:02AUG19Z #1-784 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



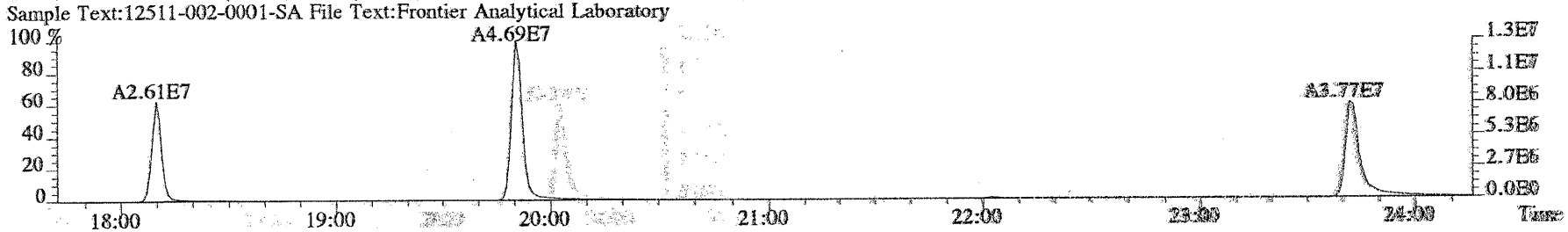
File:02AUG19Z #1-520 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



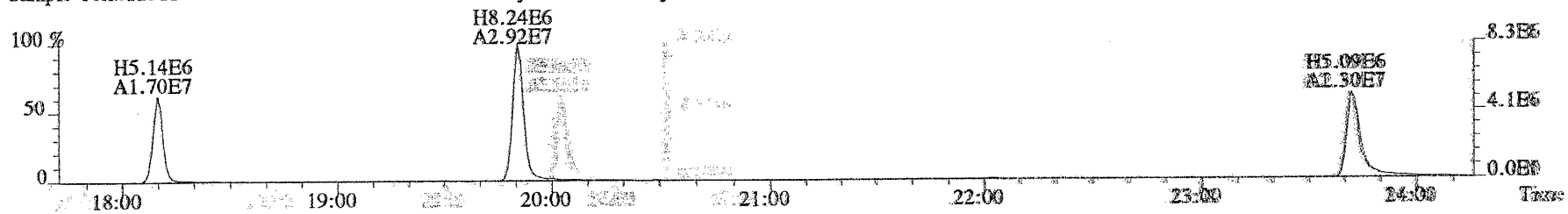
File:02AUG19Z #1-520 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



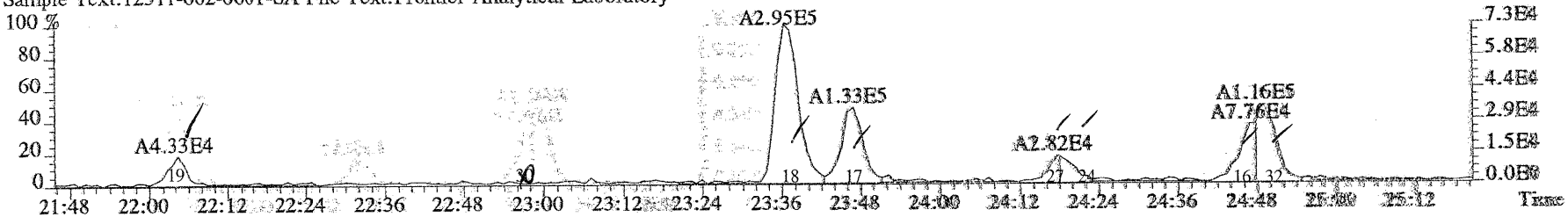
File:02AUG19Z #1-520 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



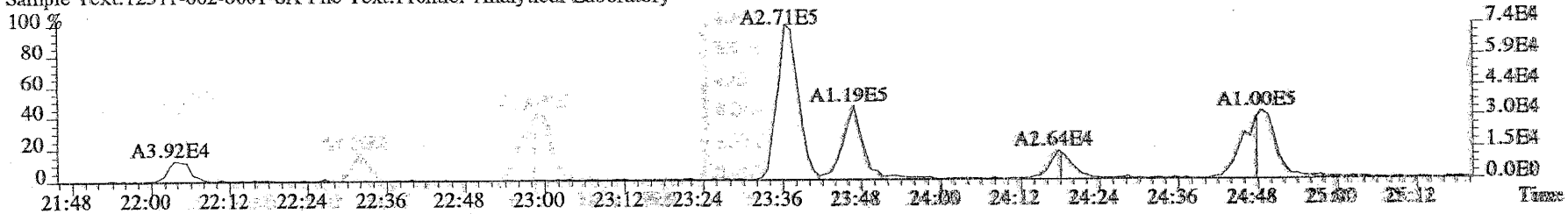
File:02AUG19Z #1-520 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



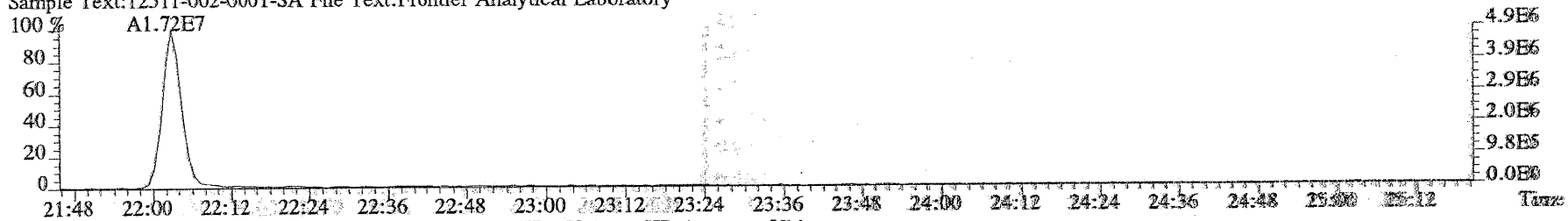
File:02AUG19Z #1-520 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



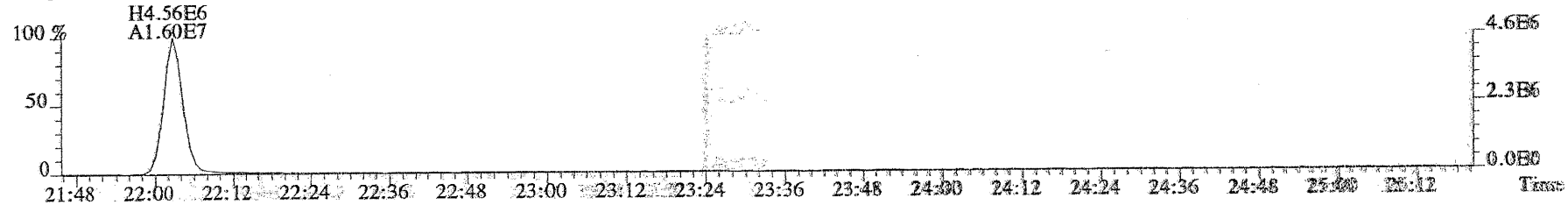
File:02AUG19Z #1-520 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



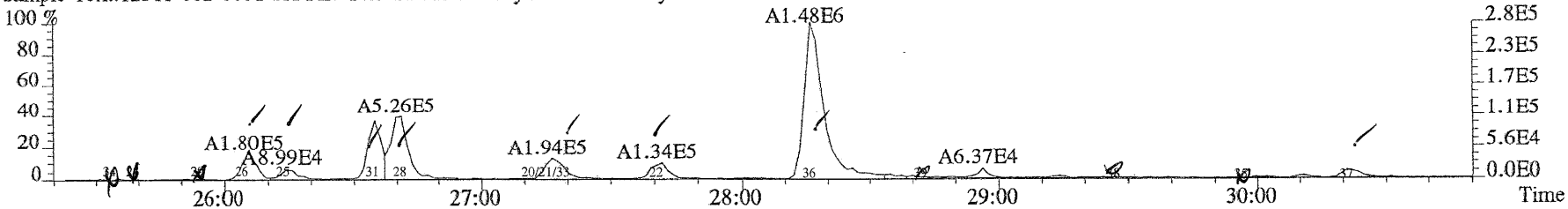
File:02AUG19Z #1-520 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



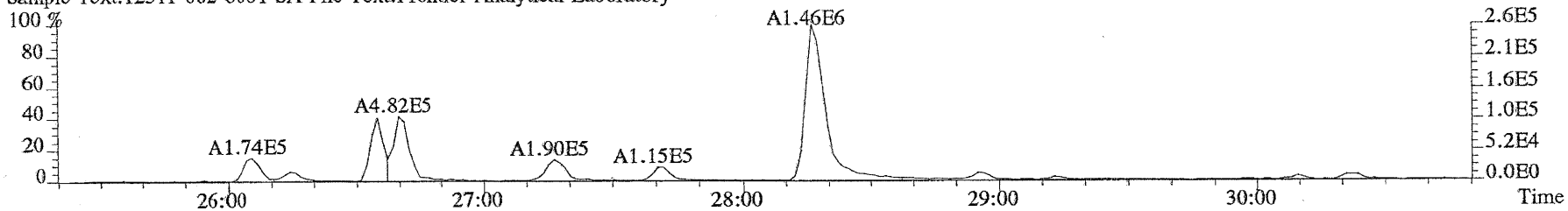
File:02AUG19Z #1-520 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



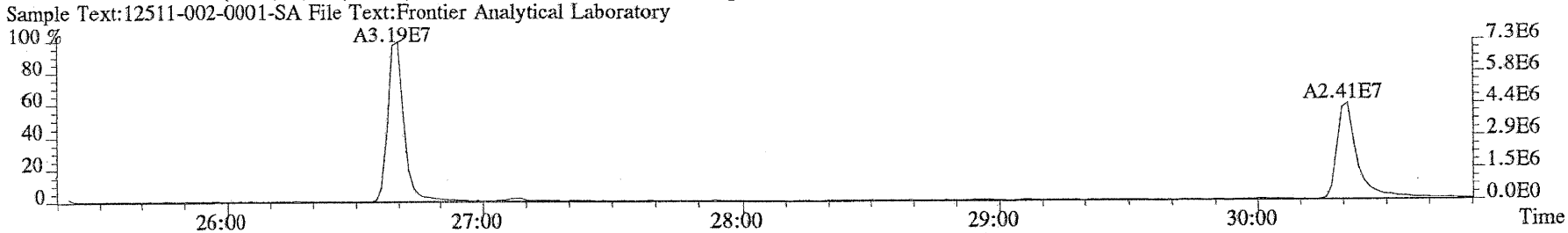
File:02AUG19Z #1-401 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



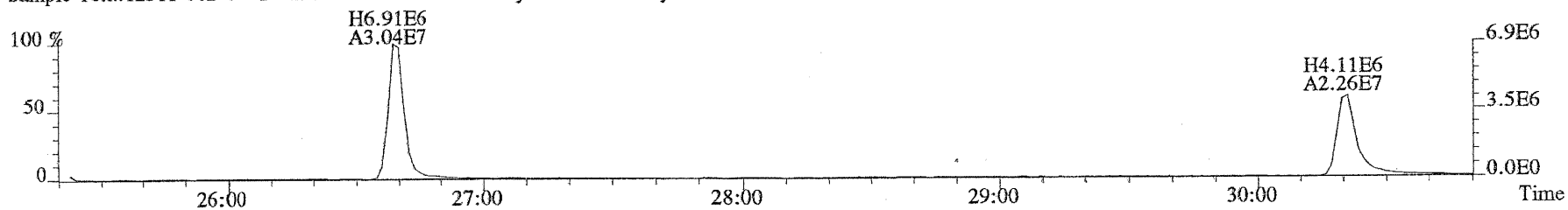
File:02AUG19Z #1-401 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



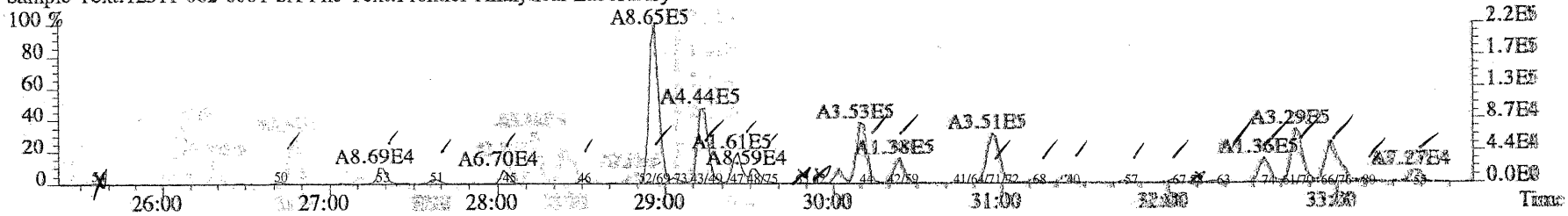
File:02AUG19Z #1-401 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



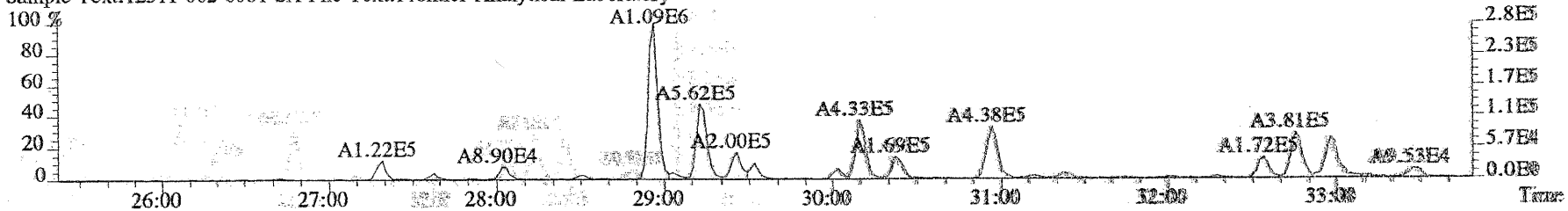
File:02AUG19Z #1-401 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



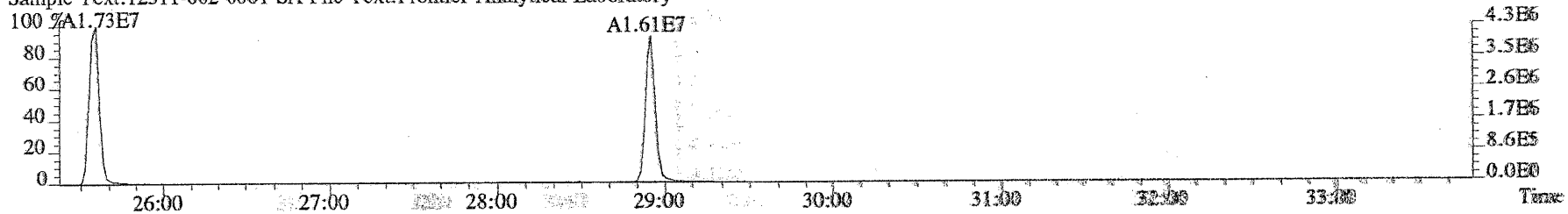
File:02AUG19Z #1-401 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



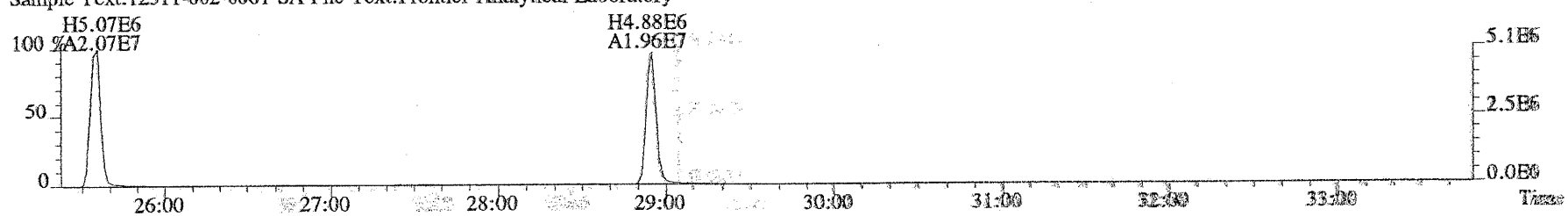
File:02AUG19Z #1-401 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



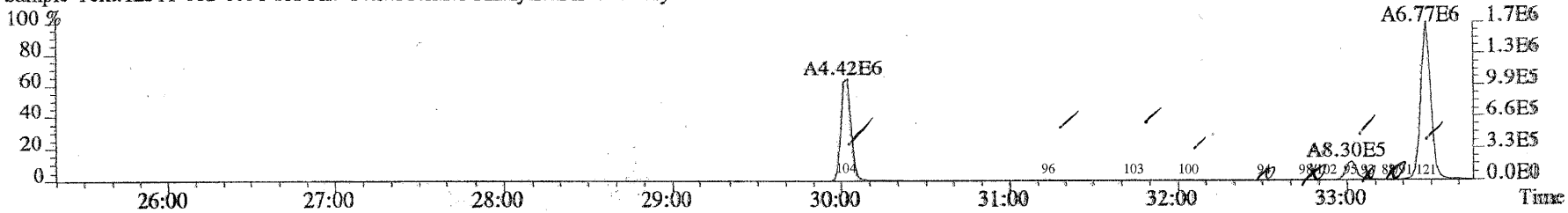
File:02AUG19Z #1-401 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



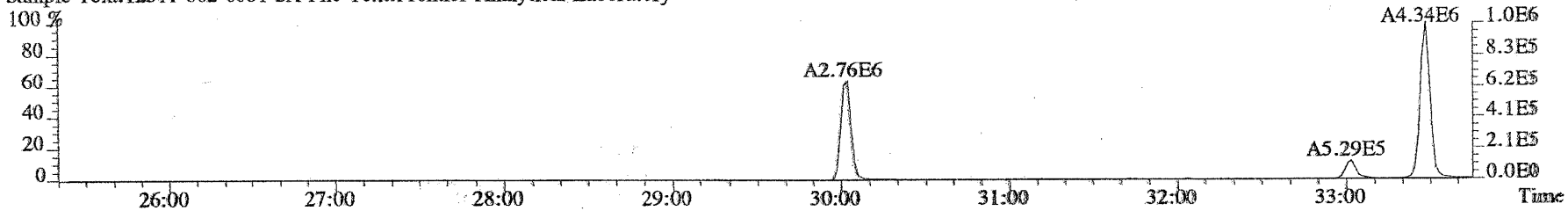
File:02AUG19Z #1-401 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



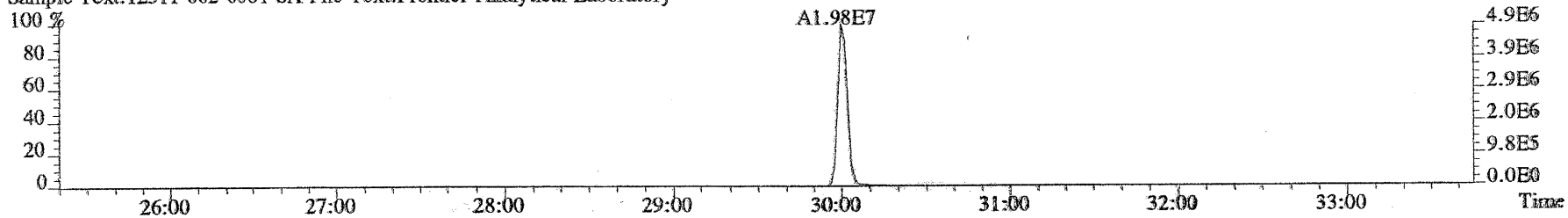
File:02AUG19Z #1-401 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



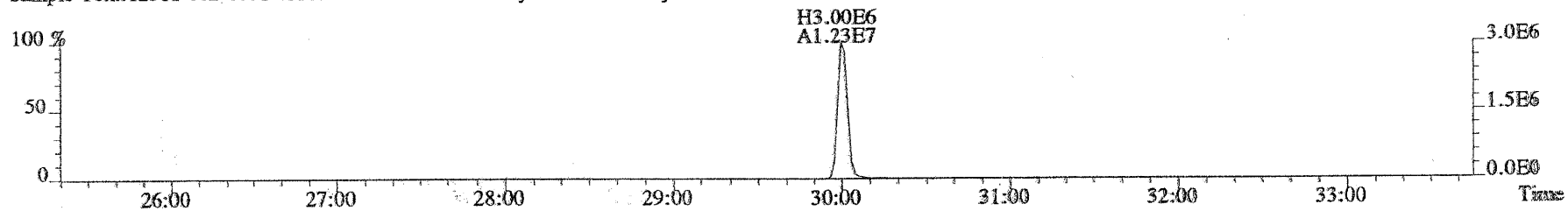
File:02AUG19Z #1-401 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



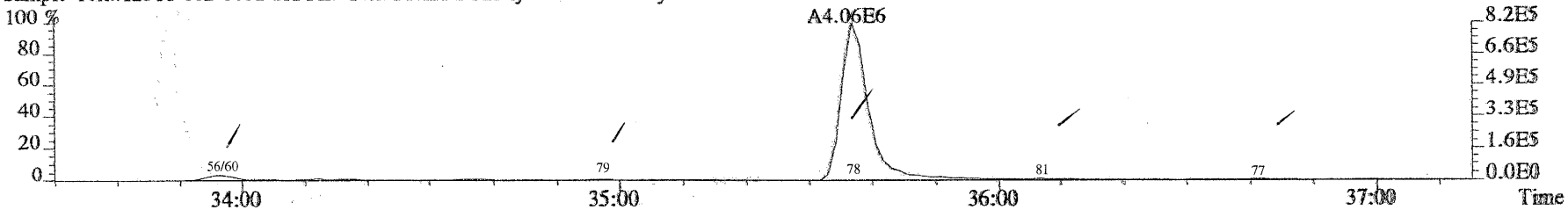
File:02AUG19Z #1-401 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



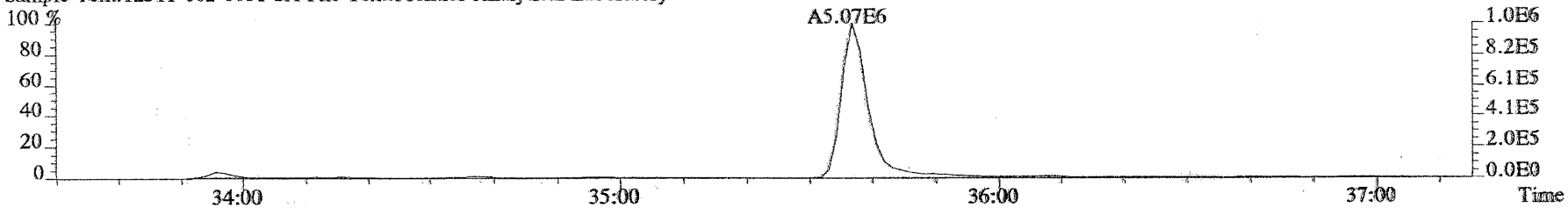
File:02AUG19Z #1-401 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



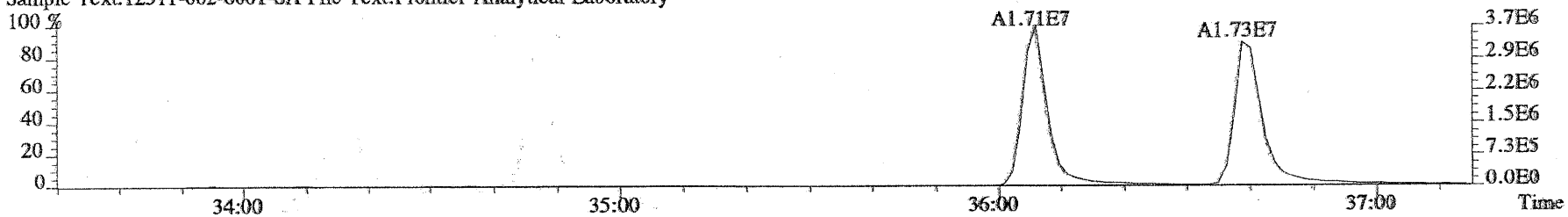
File:02AUG19Z #1-181 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



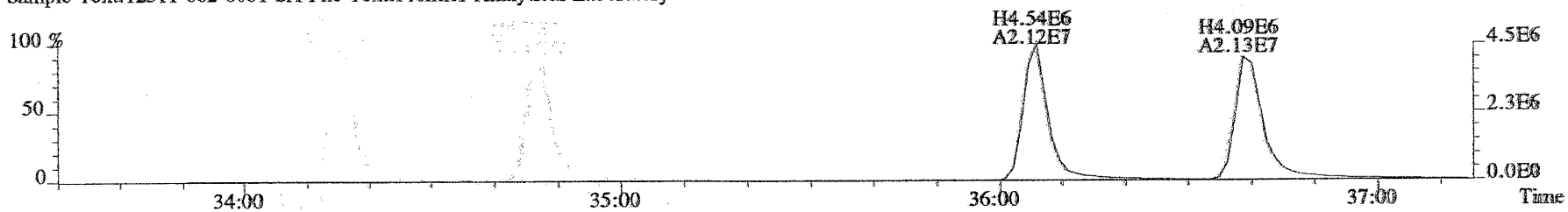
File:02AUG19Z #1-181 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



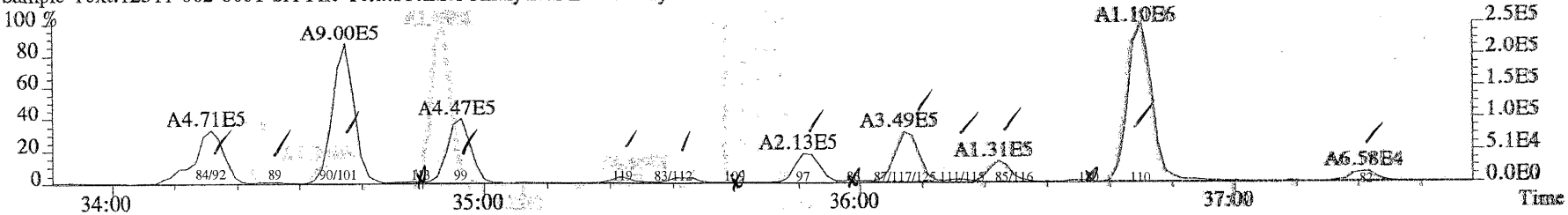
File:02AUG19Z #1-181 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



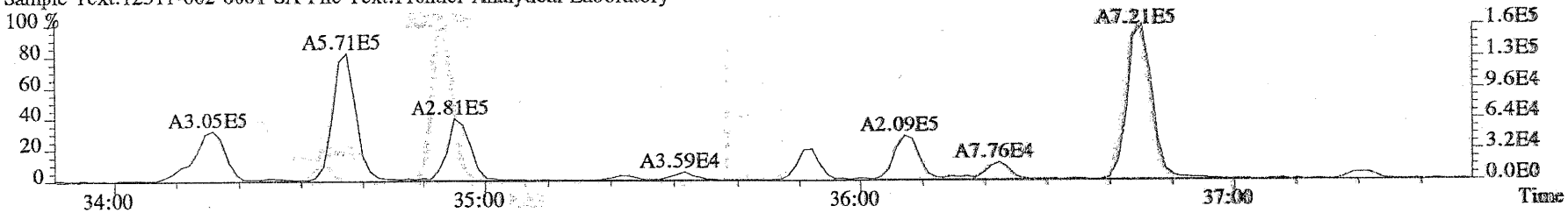
File:02AUG19Z #1-181 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



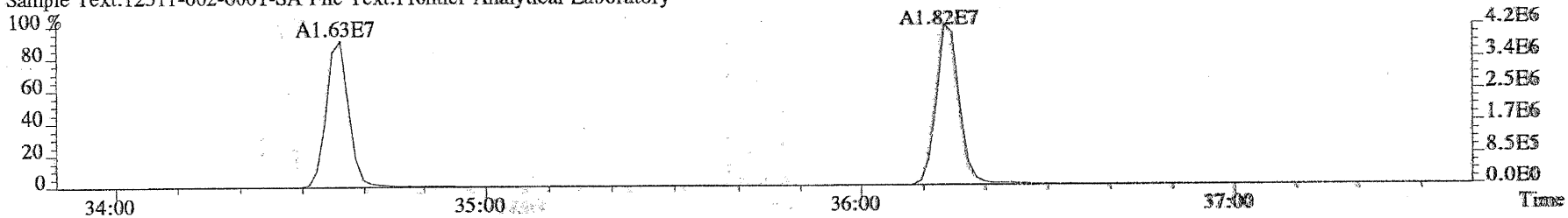
File:02AUG19Z #1-181 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



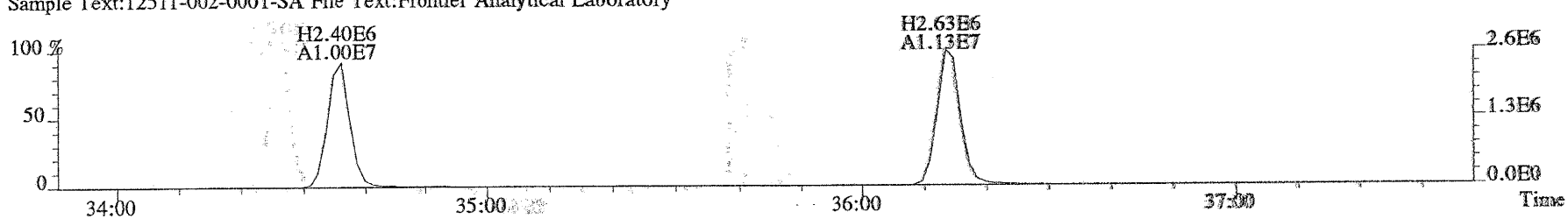
File:02AUG19Z #1-181 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



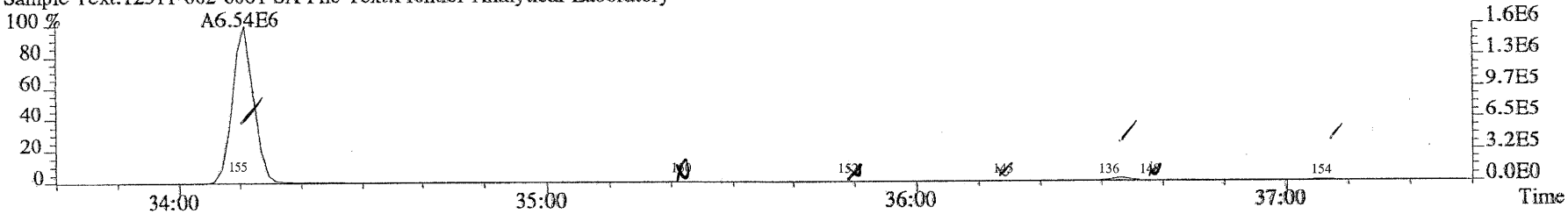
File:02AUG19Z #1-181 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



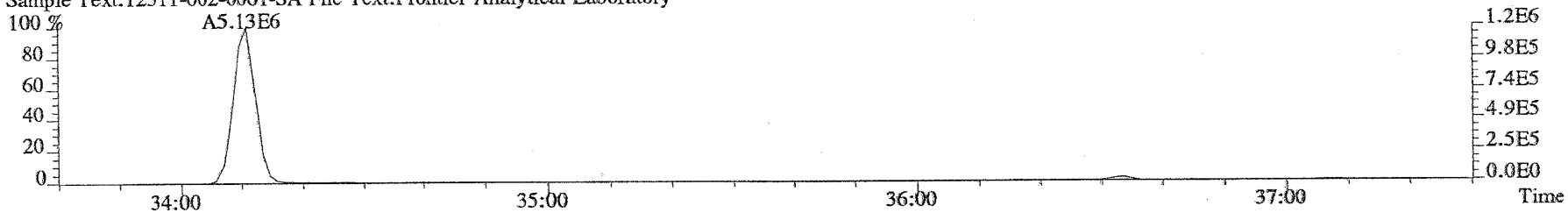
File:02AUG19Z #1-181 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



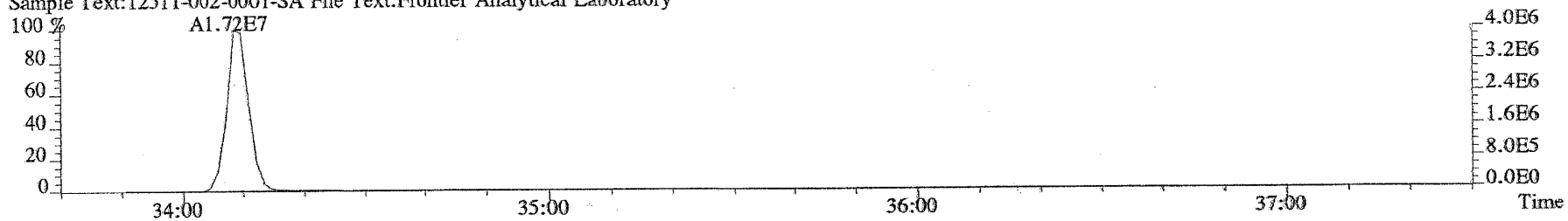
File:02AUG19Z #1-181 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-181 Acq: 2-AUG-2019 11:54:03 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:12511-002-0001-SA File Text:Frontier Analytical Laboratory

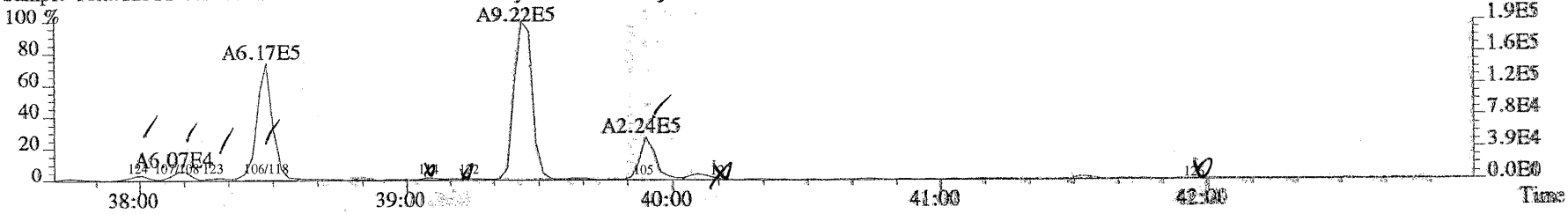


File:02AUG19Z #1-181 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory

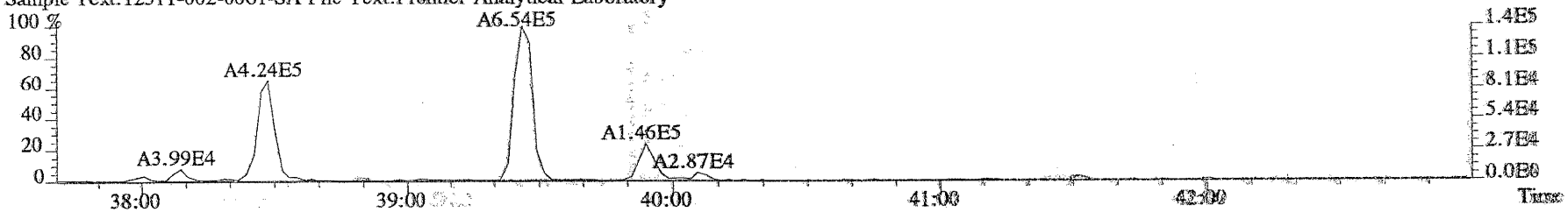


File:02AUG19Z #1-181 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory

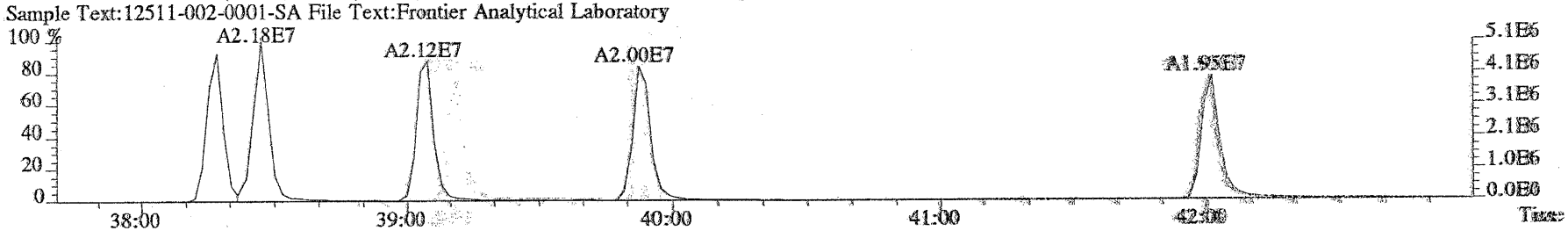
File:02AUG19Z #1-405 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



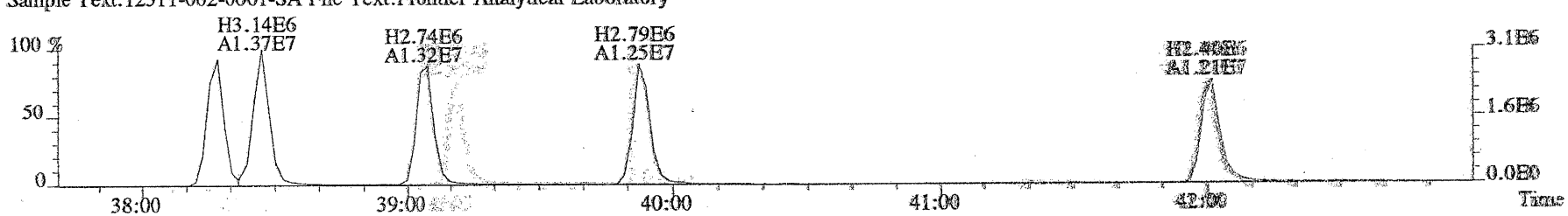
File:02AUG19Z #1-405 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



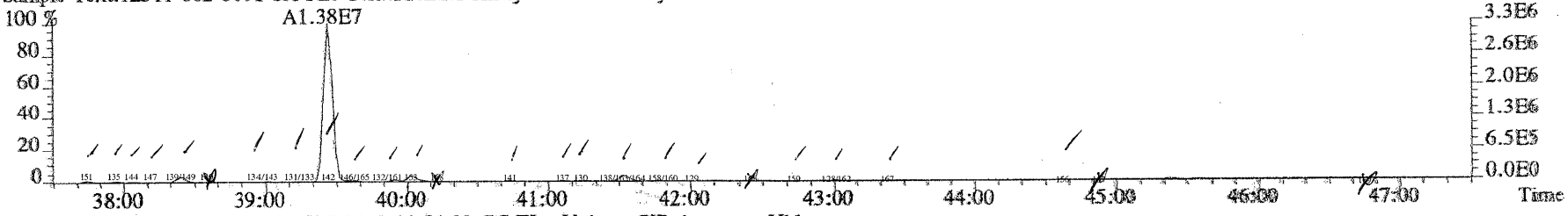
File:02AUG19Z #1-405 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



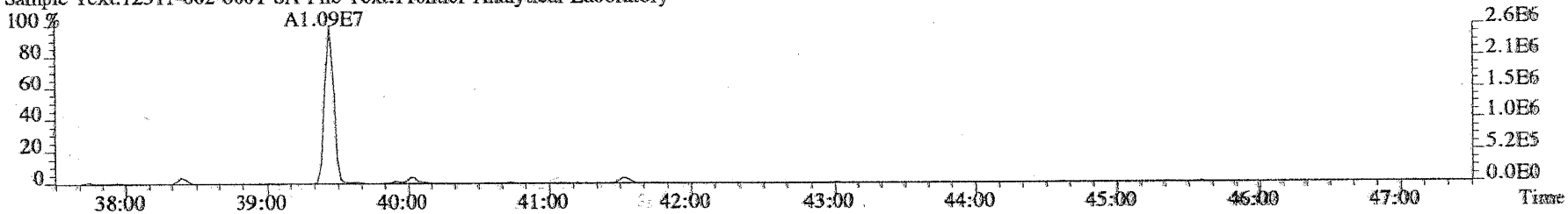
File:02AUG19Z #1-405 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



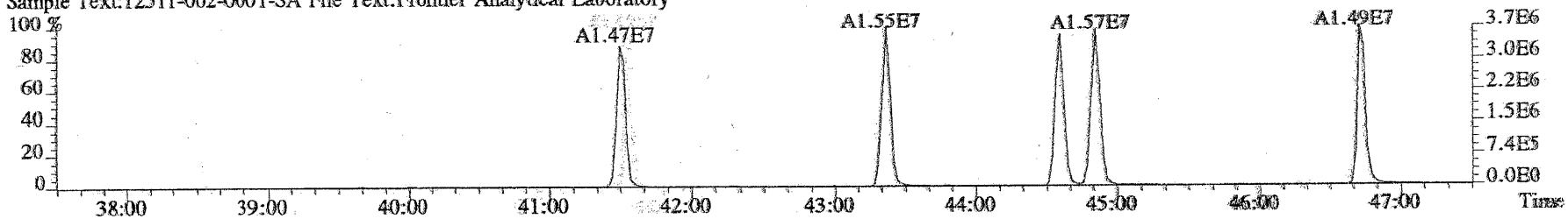
File:02AUG19Z #1-405 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



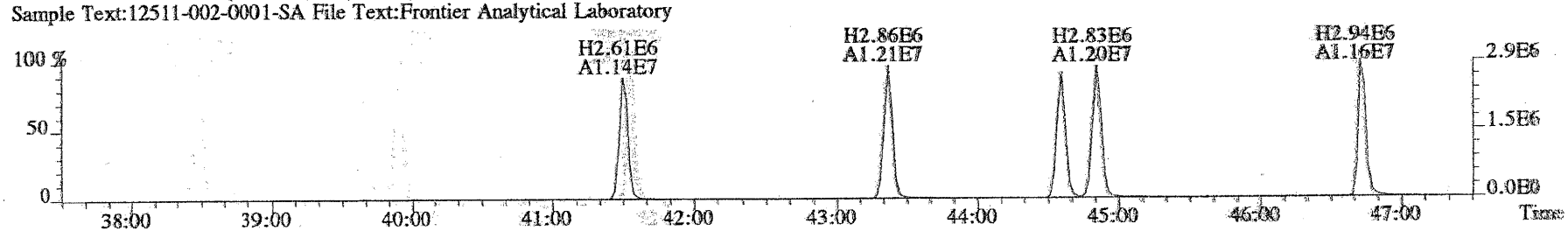
File:02AUG19Z #1-405 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



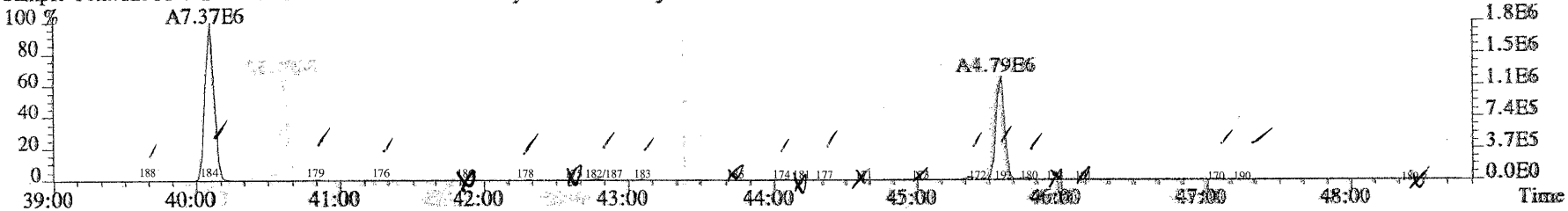
File:02AUG19Z #1-405 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



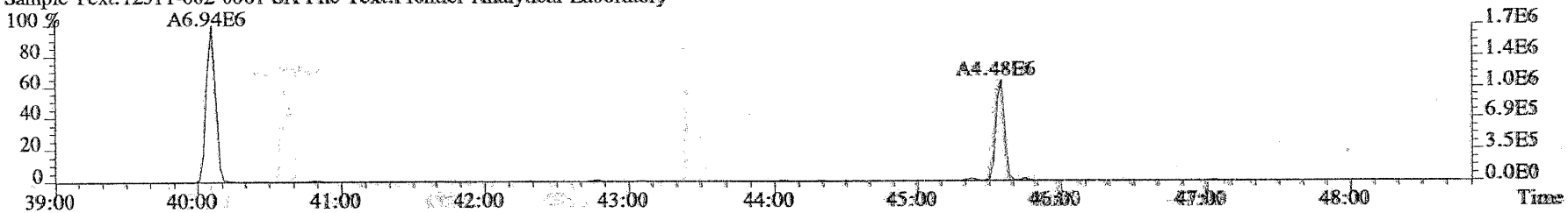
File:02AUG19Z #1-405 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



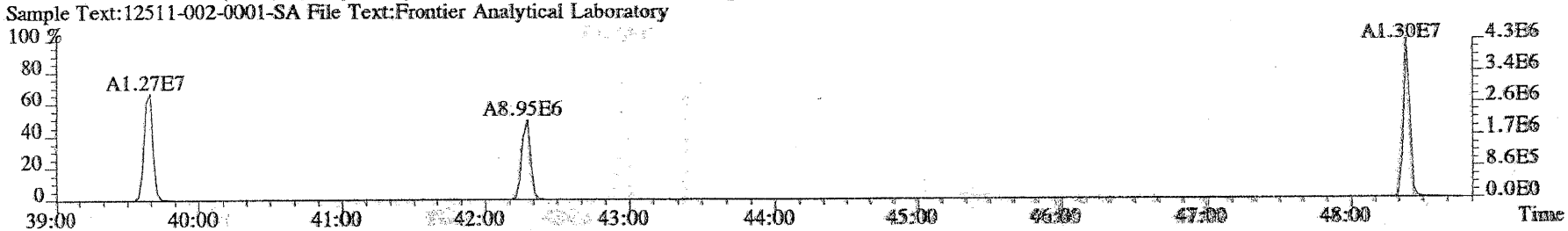
File:02AUG19Z #1-405 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



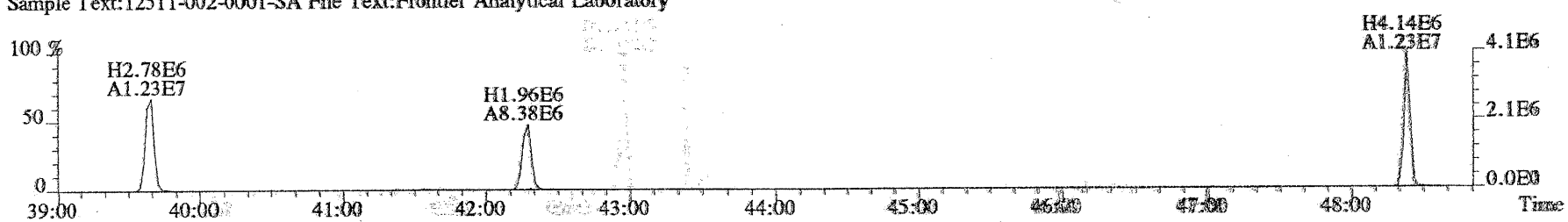
File:02AUG19Z #1-405 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



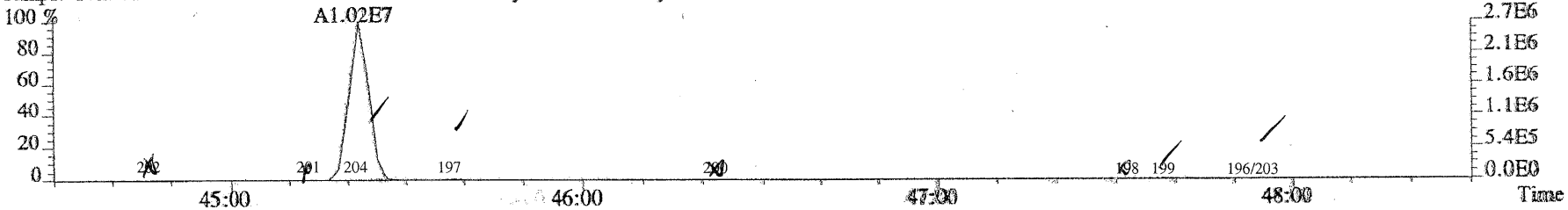
File:02AUG19Z #1-405 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



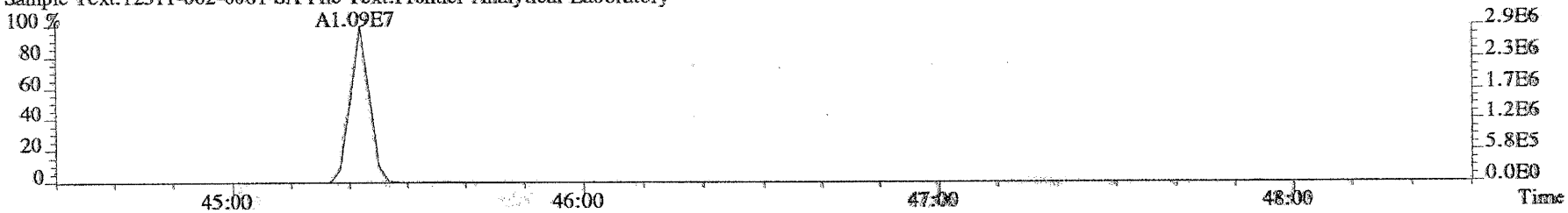
File:02AUG19Z #1-405 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



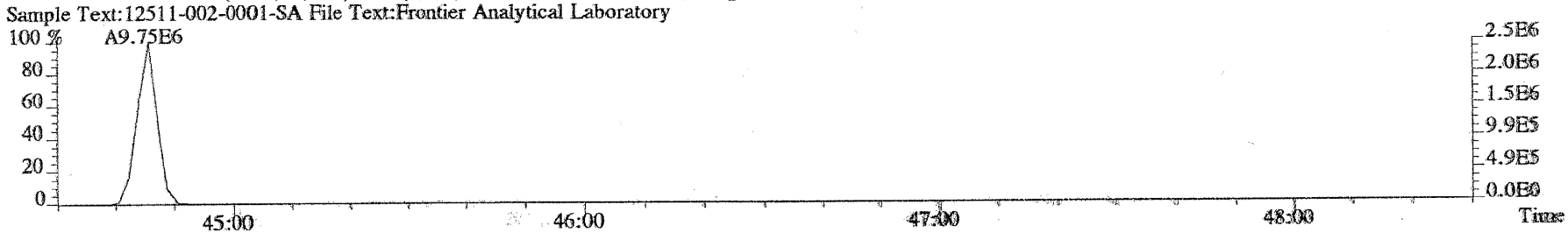
File:02AUG19Z #1-405 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



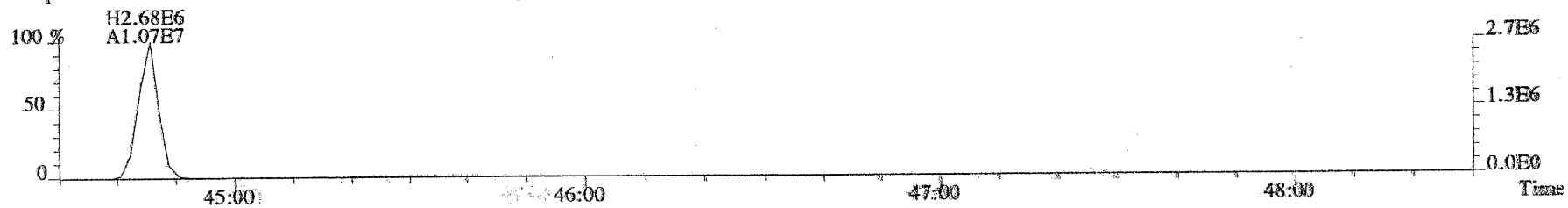
File:02AUG19Z #1-405 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



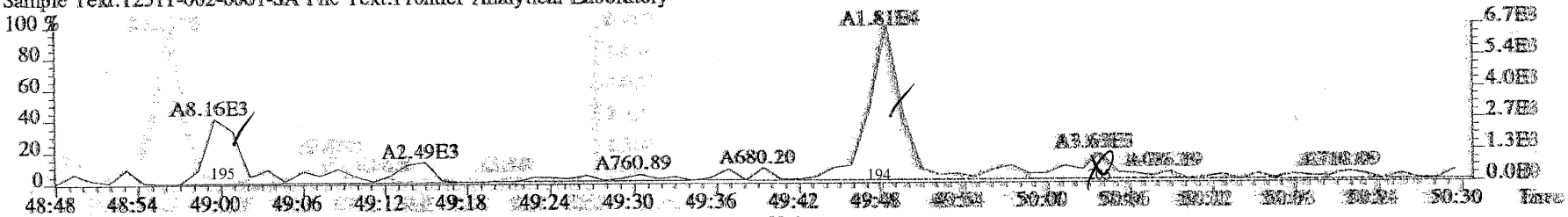
File:02AUG19Z #1-405 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



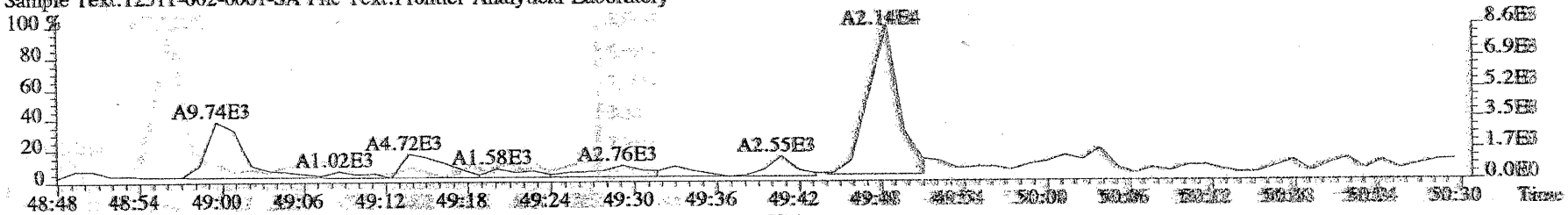
File:02AUG19Z #1-405 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



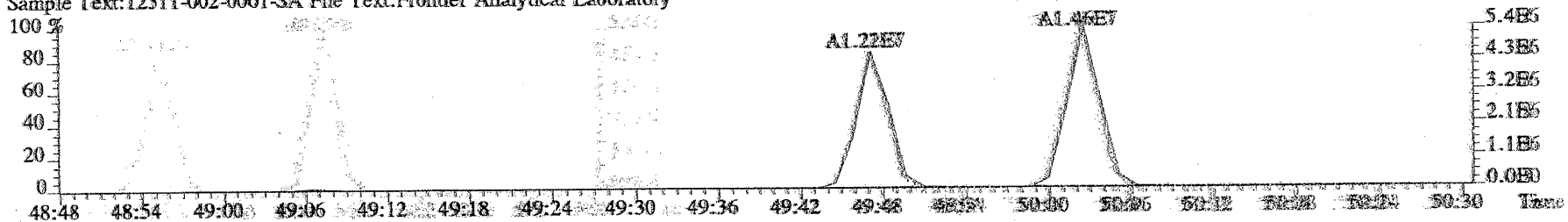
File:02AUG19Z #1-315 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



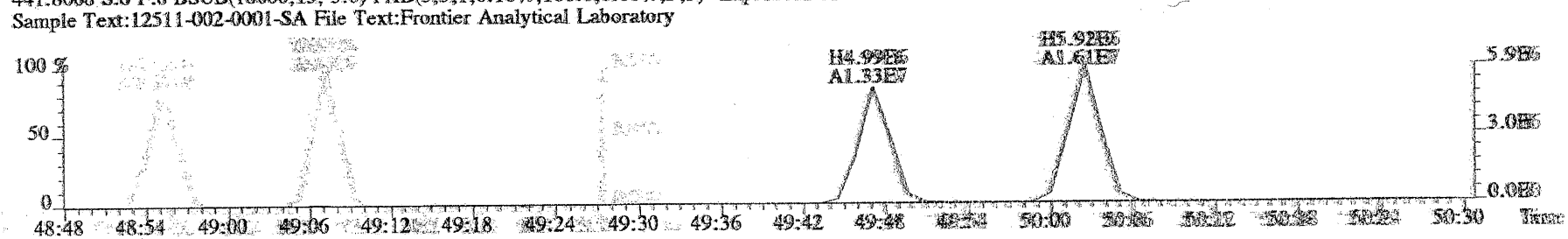
File:02AUG19Z #1-315 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



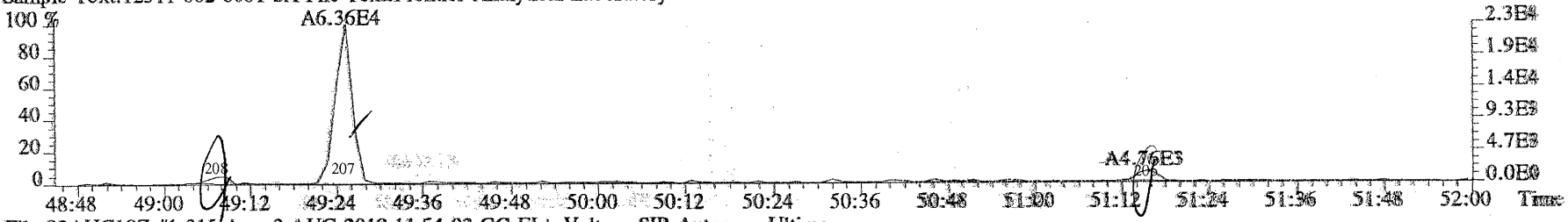
File:02AUG19Z #1-315 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



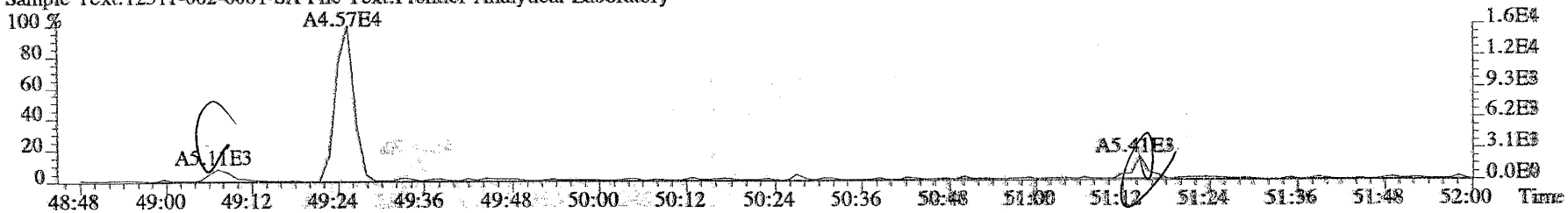
File:02AUG19Z #1-315 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



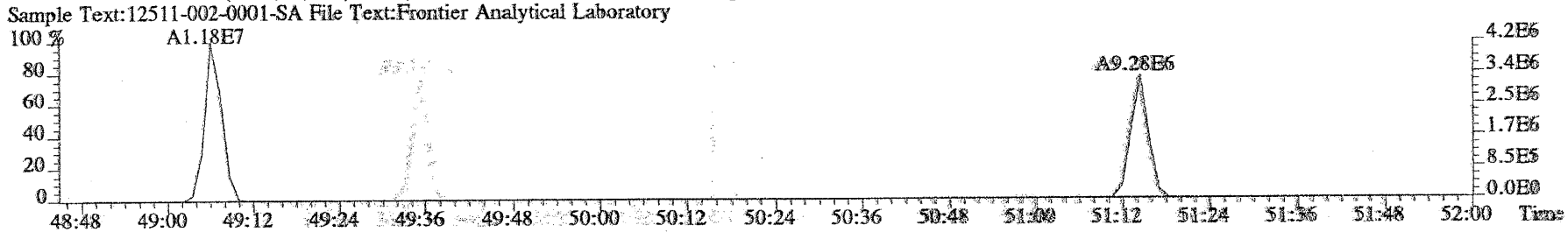
File:02AUG19Z #1-315 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



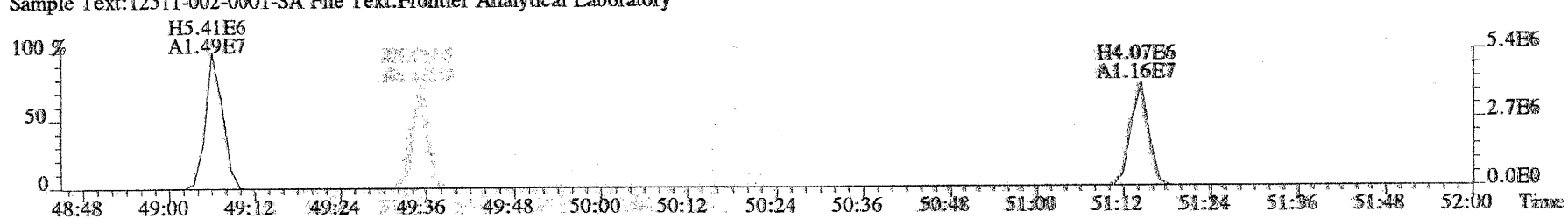
File:02AUG19Z #1-315 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



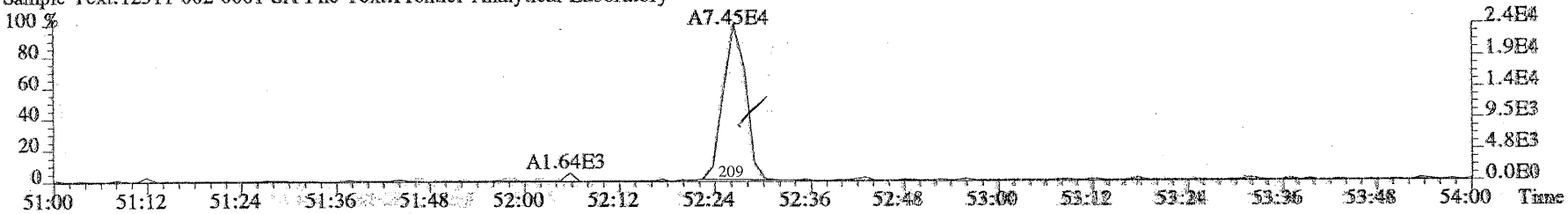
File:02AUG19Z #1-315 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



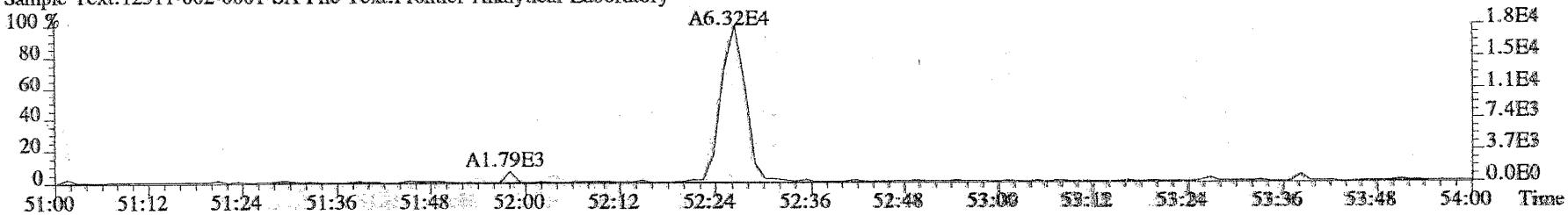
File:02AUG19Z #1-315 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



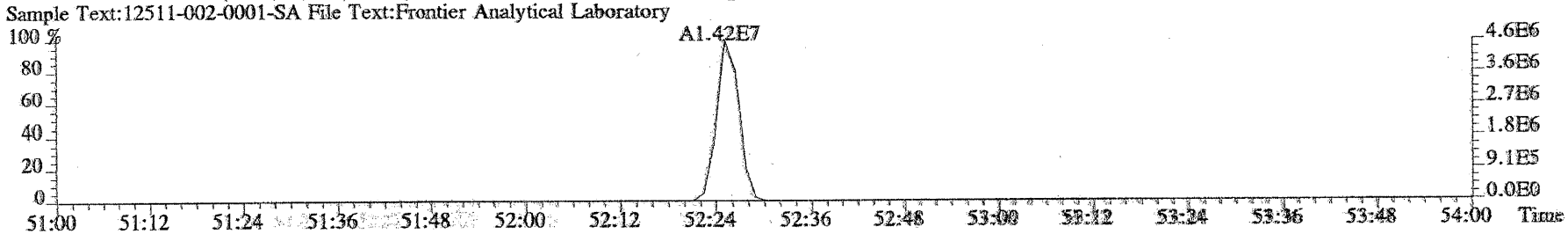
File:02AUG19Z #1-315 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



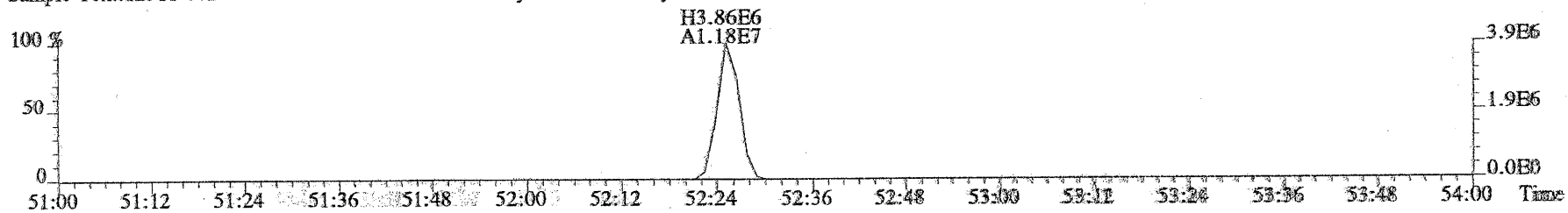
File:02AUG19Z #1-315 Acq: 2-AUG-2019 11:54:03 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-002-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 11:54:03 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:12511-002-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 11:54:03 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:12511-002-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12511-005-0001-SA Filename: 02AUG19Z Sam:9 Acquired: 2-AUG-19 14:49:07 ICal: DAILY209FAL4-8-2-19
Client ID: LDW-Y2-IN-ENR-CA-S010 ConCal: ST080219Z1 EndCal: ST080219Z2
Results: 12510-14 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	*		1360	988	2.27	
13C-PCB-1	6.53e+07	3.23	y	14:30	0.90	8430					84.3
PCB-2	*	*	n	NotFnd	1.17	*		1360	988	2.55	
PCB-3	*	*	n	NotFnd	1.14	*		1360	988	2.94	
13C-PCB-3	6.56e+07	3.27	y	16:56	0.92	8300					83.0
PCB-4	2.36e+05	1.54	y	18:12	1.24	39.8		-	-	*	
PCB-10	*	*	n	NotFnd	1.21	*		912	4770	8.11	
13C-PCB-4	4.77e+07	1.54	y	18:10	0.65	8580					85.8
PCB-9	*	*	n	NotFnd	1.33	*		912	4770	7.41	
PCB-7	*	*	n	NotFnd	1.38	*		912	4770	7.12	
PCB-6	2.16e+05	1.52	y	20:30	1.41	26.0		-	-	*	
PCB-8	4.01e+05	1.43	y	20:53	1.29	52.6		-	-	*	
PCB-5	*	*	n	NotFnd	1.37	*		912	4770	7.19	
PCB-14	1.10e+06	1.50	y	21:56	1.28	146		-	-	*	
PCB-11	2.27e+05	1.47	y	23:06	1.20	32.0		-	-	*	
PCB-13	*	*	n	NotFnd	1.23	*		912	4770	7.97	
PCB-12	*	*	n	NotFnd	1.26	*		912	4770	7.82	
PCB-15	2.35e+05	1.49	y	23:42	1.14	29.3		-	-	*	
13C-PCB-15	7.02e+07	1.58	y	23:42	0.98	8350					83.5
PCB-19	1.20e+05	1.17	y	22:04	1.22	25.7		-	-	*	
PCB-30	*	*	n	NotFnd	1.84	*		1590	644	2.83	
PCB-18	7.15e+05	1.10	y	23:36	1.22	154		-	-	*	
PCB-17	3.66e+05	1.12	y	23:47	1.31	73.6		-	-	*	
PCB-27	9.36e+04	1.07	y	24:17	1.79	13.8	J	-	-	*	
PCB-24	8.34e+04	1.16	y	24:19	1.78	12.3	J	-	-	*	
PCB-16	1.95e+05	1.13	y	24:47	1.47	34.9		-	-	*	
PCB-32	2.41e+05	1.18	y	24:48	1.54	41.0		-	-	*	
13C-PCB-19	3.81e+07	1.07	y	22:02	0.46	9680					96.8
13C-PCB-9	8.56e+07	1.58	y	19:51	-	50.3					
PCB-34	*	*	n	NotFnd	1.26	*		2680	1730	8.13	
PCB-23	*	*	n	NotFnd	1.25	*		2680	1730	8.25	
PCB-29	*	*	n	NotFnd	1.30	*		2680	1730	7.90	
PCB-26	5.31e+05	1.06	y	26:05	1.28	72.2		-	-	*	
PCB-25	2.47e+05	0.90	y	26:14	1.22	35.1		-	-	*	
PCB-31	1.01e+06	0.99	y	26:34	1.25	140		-	-	*	
PCB-28	1.41e+06	1.12	y	26:41	1.46	169		-	-	*	
PCB-20	5.23e+05	1.00	y	27:17	1.20	76.0		-	-	*	Co-elute PCB 21/33
PCB-21	5.23e+05	1.00	y	27:17	1.20	76.0		-	-	*	Co-elute PCB 20/33
PCB-33	5.23e+05	1.00	y	27:17	1.20	76.0		-	-	*	Co-elute PCB 20/21
PCB-22	3.21e+05	1.11	y	27:40	1.28	43.8		-	-	*	
PCB-36	2.46e+06	1.10	y	28:17	1.18	363		-	-	*	
PCB-39	*	*	n	NotFnd	1.17	*		2680	1730	8.76	
PCB-38	*	*	n	NotFnd	1.16	*		2680	1730	8.88	
PCB-35	*	*	n	NotFnd	1.07	*		2680	1730	9.58	
PCB-37	1.78e+05	1.09	y	30:21	1.13	27.3		-	-	*	
13C-PCB-37	5.75e+07	1.05	y	30:21	1.48	9120					91.2

PCB-54	*	*	n	NotFnd	1.26	*		652	888	2.69	
PCB-50	3.45e+04	0.72	y	26:42	0.98	7.82	J	-	-	*	
PCB-53	2.96e+05	0.84	y	27:19	0.97	67.6		-	-	*	
PCB-51	7.94e+04	0.78	y	27:39	1.00	17.6	J	-	-	*	
PCB-45	1.93e+05	0.78	y	28:03	0.84	51.0		-	-	*	
PCB-46	6.81e+04	0.81	y	28:31	0.80	19.0	J	-	-	*	
PCB-52	2.93e+06	0.80	y	28:56	0.97	674		-	-	*	Co-elute PCB 69
PCB-69	2.93e+06	0.80	y	28:56	0.97	674		-	-	*	Co-elute PCB 52
PCB-73	9.13e+04	0.74	y	29:01	1.27	16.0	J	-	-	*	
PCB-43	1.49e+06	0.79	y	29:14	0.87	381		-	-	*	Co-elute PCB 49
PCB-49	1.49e+06	0.79	y	29:14	0.87	381		-	-	*	Co-elute PCB 43
PCB-47	5.18e+05	0.80	y	29:25	0.92	125		-	-	*	
PCB-48	2.63e+05	0.87	y	29:31	1.07	54.6		-	-	*	Co-elute PCB 75
PCB-75	2.63e+05	0.87	y	29:31	1.07	54.6		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.06	*		652	888	3.20	
PCB-62	*	*	n	NotFnd	1.16	*		652	888	2.93	
PCB-44	1.04e+06	0.80	y	30:09	0.72	320		-	-	*	
PCB-42	4.47e+05	0.73	y	30:23	0.94	105		-	-	*	Co-elute PCB 59
PCB-59	4.47e+05	0.73	y	30:23	0.94	105		-	-	*	Co-elute PCB 42
PCB-72	1.06e+06	0.78	y	30:56	1.06	222		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.06e+06	0.78	y	30:56	1.06	222		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.06e+06	0.78	y	30:56	1.06	222		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.06e+06	0.78	y	30:56	1.06	222		-	-	*	Co-elute PCB 72/41/71
PCB-68	6.62e+04	0.75	y	31:13	1.21	12.2	J	-	-	*	
PCB-40	1.37e+05	0.83	y	31:24	0.66	46.4		-	-	*	
PCB-57	3.03e+04	0.86	y	31:43	1.09	6.16	J	-	-	*	
PCB-67	4.76e+04	0.80	y	32:01	1.08	9.82	J	-	-	*	
PCB-58	*	*	n	NotFnd	1.10	*		652	888	3.09	
PCB-63	4.96e+04	0.74	y	32:16	1.10	9.99	J	-	-	*	
PCB-74	4.33e+05	0.87	y	32:33	1.08	89.4		-	-	*	
PCB-61	1.03e+06	0.82	y	32:45	1.03	223		-	-	*	Co-elute PCB 70
PCB-70	1.03e+06	0.82	y	32:45	1.03	223		-	-	*	Co-elute PCB 61
PCB-76	1.07e+06	0.84	y	32:57	1.13	211		-	-	*	Co-elute PCB 66
PCB-66	1.07e+06	0.84	y	32:57	1.13	211		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.30	*		652	888	2.62	
PCB-55	2.02e+05	0.84	y	33:28	1.13	39.8		-	-	*	
13C-PCB-54	4.50e+07	0.83	y	25:35	1.20	8810					88.1
PCB-104	6.28e+06	1.57	y	30:02	1.11	1470		-	-	*	
PCB-96	2.65e+04	1.53	y	31:13	1.05	6.56	J	-	-	*	
PCB-103	4.39e+04	1.39	y	31:43	0.84	13.5	J	-	-	*	
PCB-100	3.93e+04	1.45	y	32:04	0.83	12.2	J	-	-	*	
PCB-94	*	*	n	NotFnd	0.69	*		244	356	2.25	
PCB-98	*	*	n	NotFnd	0.72	*		244	356	2.16	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.72	*		244	356	2.16	Co-elute PCB 98
PCB-95	2.06e+06	1.57	y	33:01	0.71	746		-	-	*	
PCB-93	*	*	n	NotFnd	0.69	*		244	356	2.22	
PCB-88	*	*	n	NotFnd	0.77	*		244	356	2.02	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.77	*		244	356	2.02	Co-elute PCB 88
PCB-121	1.03e+07	1.60	y	33:28	0.93	2880		-	-	*	
13C-PCB-104	3.86e+07	1.58	y	29:59	0.92	9820					98.2
13C-PCB-28	7.40e+07	1.06	y	26:39	1.83	9480					94.8
13C-PCB-52	4.27e+07	0.82	y	28:55	-	52.7					

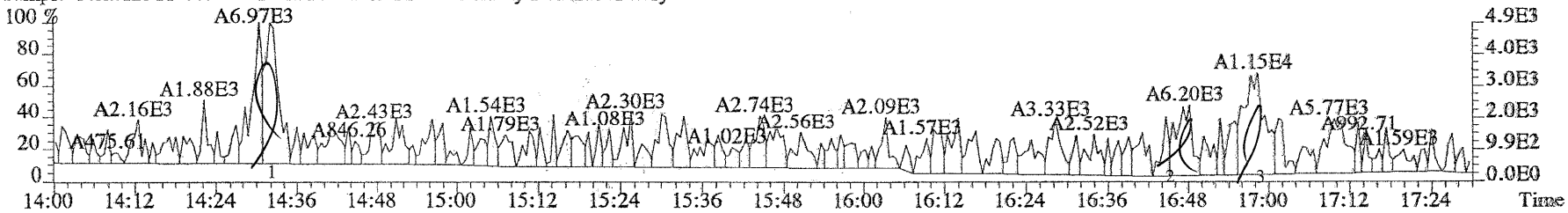
PCB-56	4.32e+05	0.78	y	33:55	1.26	75.5		-	-	*	Co-elute PCB 60
PCB-60	4.32e+05	0.78	y	33:55	1.26	75.5		-	-	*	Co-elute PCB 56
PCB-79	4.96e+04	0.87	y	34:55	1.19	9.19	J	-	-	*	
PCB-78	8.11e+06	0.79	y	35:37	1.10	1630		-	-	*	
PCB-81	1.31e+05	0.86	y	36:08	1.24	23.6		-	-	*	
13C-PCB-81	4.48e+07	0.82	y	36:06	1.38	10700					107
PCB-77	6.99e+04	0.81	y	36:41	1.05	14.5	J	-	-	*	
13C-PCB-77	4.59e+07	0.81	y	36:40	1.43	10600					106
PCB-155	1.10e+07	1.26	y	34:11	1.03	2830		-	-	*	
PCB-150	*	*	n	NotFnd	0.99	*		528	244	2.17	
PCB-152	*	*	n	NotFnd	0.90	*		528	244	2.40	
PCB-145	*	*	n	NotFnd	0.86	*		528	244	2.50	
PCB-136	3.21e+05	1.28	y	36:32	0.81	105		-	-	*	
PCB-148	*	*	n	NotFnd	0.60	*		528	244	3.56	
PCB-154	7.04e+04	1.41	y	37:06	0.68	27.3		-	-	*	
13C-PCB-155	3.79e+07	1.28	y	34:09	1.23	10100					101
13C-PCB-111	3.54e+07	1.61	y	36:13	1.08	10700					107
13C-PCB-101	3.05e+07	1.60	y	34:36	-	49.1					
PCB-84	1.10e+06	1.71	y	34:16	0.87	319		-	-	*	Co-elute PCB 92
PCB-92	1.10e+06	1.71	y	34:16	0.87	319		-	-	*	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.87	*		1240	1030	7.32	
PCB-90	2.14e+06	1.64	y	34:37	0.98	554		-	-	*	Co-elute PCB 101
PCB-101	2.14e+06	1.64	y	34:37	0.98	554		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*		1240	1030	5.86	
PCB-99	1.06e+06	1.65	y	34:56	1.12	241		-	-	*	
PCB-119	8.92e+04	1.36	y	35:21	1.20	18.8	J	-	-	*	
PCB-83	1.18e+05	1.52	y	35:31	0.88	34.0		-	-	*	Co-elute PCB 112
PCB-112	1.18e+05	1.52	y	35:31	0.88	34.0		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.06	*		1240	1030	6.02	
PCB-97	5.30e+05	1.67	y	35:52	0.72	187		-	-	*	
PCB-86	*	*	n	NotFnd	0.71	*		1240	1030	8.99	
PCB-125	7.87e+05	1.53	y	36:07	0.95	210		-	-	*	Co-elute PCB 87/117
PCB-87	7.87e+05	1.53	y	36:07	0.95	210		-	-	*	Co-elute PCB 125/117
PCB-117	7.87e+05	1.53	y	36:07	0.95	210		-	-	*	Co-elute PCB 125/87
PCB-111	5.50e+04	1.64	y	36:16	1.15	12.1	J	-	-	*	Co-elute PCB 115
PCB-115	5.50e+04	1.64	y	36:16	1.15	12.1	J	-	-	*	Co-elute PCB 111
PCB-85	3.11e+05	1.70	y	36:22	0.87	91.0		-	-	*	Co-elute PCB 116
PCB-116	3.11e+05	1.70	y	36:22	0.87	91.0		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.13	*		1240	1030	5.68	
PCB-110	2.70e+06	1.56	y	36:45	1.04	660		-	-	*	
PCB-82	1.33e+05	1.38	y	37:20	0.60	56.0		-	-	*	
PCB-124	1.01e+05	1.60	y	38:00	1.04	24.7		-	-	*	
PCB-108	1.38e+05	1.73	y	38:09	1.10	31.9		-	-	*	Co-elute PCB 107
PCB-107	1.38e+05	1.73	y	38:09	1.10	31.9		-	-	*	Co-elute PCB 108
PCB-123	4.12e+04	1.39	y	38:17	1.05	10.4	J	-	-	*	
13C-PCB-123	3.77e+07	1.58	y	38:17	1.31	9600					96.0
PCB-118	1.63e+06	1.53	y	38:28	1.04	375		-	-	*	Co-elute PCB 106
PCB-106	1.63e+06	1.53	y	38:28	1.04	375		-	-	*	Co-elute PCB 118
13C-PCB-118	4.15e+07	1.61	y	38:27	1.51	9220					92.2
PCB-114	4.56e+04	1.39	y	39:04	1.11	10.3	J	-	-	*	
13C-PCB-114	3.97e+07	1.61	y	39:04	1.42	9360					93.6
PCB-122	2.87e+04	1.76	y	39:11	1.07	6.80	J	-	-	*	
PCB-105	5.33e+05	1.57	y	39:54	1.13	121		-	-	*	
13C-PCB-105	3.87e+07	1.60	y	39:52	1.44	9000					90.0

PCB-127	*	*	n	NotFnd	1.05	*		757	688	3.87	
PCB-126	*	*	n	NotFnd	1.08	*		757	688	4.35	
13C-PCB-126	3.75e+07	1.59	y	42:01	1.36	9210					92.1
PCB-151	3.41e+05	1.23	y	37:44	0.76	139		-	-	*	
PCB-135	2.48e+05	1.37	y	37:55	0.78	97.9		-	-	*	
PCB-144	6.59e+04	1.31	y	38:02	0.80	25.4		-	-	*	
PCB-147	4.98e+04	1.37	y	38:10	0.92	16.8	J	-	-	*	
PCB-139	1.35e+06	1.19	y	38:23	0.89	470		-	-	*	Co-elute PCB 149
PCB-149	1.35e+06	1.19	y	38:23	0.89	470		-	-	*	Co-elute PCB 139
PCB-140	1.94e+04	1.20	y	38:35	0.87	6.94	J	-	-	*	
PCB-143	9.95e+04	1.33	y	39:01	0.75	41.2		-	-	*	Co-elute PCB 134
PCB-134	9.95e+04	1.33	y	39:01	0.75	41.2		-	-	*	Co-elute PCB 143
PCB-131	4.57e+04	1.12	y	39:16	0.72	19.7	J	-	-	*	Co-elute PCB 133
PCB-133	4.57e+04	1.12	y	39:16	0.72	19.7	J	-	-	*	Co-elute PCB 131
PCB-142	2.38e+07	1.24	y	39:26	0.74	10000		-	-	*	
PCB-165	3.84e+05	1.30	y	39:37	1.01	118		-	-	*	Co-elute PCB 146
PCB-146	3.84e+05	1.30	y	39:37	1.01	118		-	-	*	Co-elute PCB 165
PCB-161	4.67e+05	1.19	y	39:54	0.94	154		-	-	*	Co-elute PCB 132
PCB-132	4.67e+05	1.19	y	39:54	0.94	154		-	-	*	Co-elute PCB 161
PCB-153	1.58e+06	1.19	y	40:00	0.96	511		-	-	*	
PCB-168	*	*	n	NotFnd	1.09	*		648	456	3.19	
PCB-141	2.18e+05	1.37	y	40:43	0.79	85.2		-	-	*	
PCB-137	7.24e+04	1.30	y	41:06	0.83	26.9		-	-	*	
PCB-130	9.82e+04	1.30	y	41:11	0.69	44.0		-	-	*	
PCB-138	1.52e+06	1.28	y	41:31	1.03	460		-	-	*	Co-elute PCB 163/164
PCB-163	1.52e+06	1.28	y	41:31	1.03	460		-	-	*	Co-elute PCB 138/164
PCB-164	1.52e+06	1.28	y	41:31	1.03	460		-	-	*	Co-elute PCB 138/163
PCB-158	1.64e+05	1.16	y	41:44	1.13	45.2		-	-	*	Co-elute PCB 160
PCB-160	1.64e+05	1.16	y	41:44	1.13	45.2		-	-	*	Co-elute PCB 158
PCB-129	5.64e+04	1.07	y	42:01	0.70	25.1		-	-	*	
PCB-166	*	*	n	NotFnd	1.09	*		648	456	3.20	
PCB-159	3.58e+04	1.14	y	42:45	1.17	9.50	J	-	-	*	
PCB-128	2.02e+05	1.36	y	43:00	0.93	67.0		-	-	*	Co-elute PCB 162
PCB-162	2.02e+05	1.36	y	43:00	0.93	67.0		-	-	*	Co-elute PCB 128
PCB-167	6.04e+04	1.37	y	43:23	1.11	16.6	J	-	-	*	
13C-PCB-167	3.27e+07	1.28	y	43:21	1.22	8990					89.9
PCB-156	1.20e+05	1.34	y	44:35	1.20	32.2		-	-	*	
13C-PCB-156	3.12e+07	1.29	y	44:35	1.23	8480					84.8
PCB-157	3.86e+04	1.19	y	44:52	1.11	10.8	J	-	-	*	
13C-PCB-157	3.24e+07	1.26	y	44:50	1.25	8680					86.8
PCB-169	*	*	n	NotFnd	1.05	*		648	456	3.12	
13C-PCB-169	3.28e+07	1.26	y	46:42	1.28	8560					85.6

PCB-188	3.18e+04	1.12	y	39:41	1.07	9.90	J	-	-	*	
13C-PCB-188	2.99e+07	1.07	y	39:39	1.05	9540					95.4
PCB-184	1.19e+07	1.06	y	40:05	1.06	3790		-	-	*	
PCB-179	1.45e+05	1.14	y	40:50	1.03	47.7		-	-	*	
PCB-176	3.76e+04	1.10	y	41:16	1.03	12.3	J	-	-	*	
PCB-186	*	*	n	NotFnd	1.02	*		564	292	2.54	
PCB-178	4.74e+04	0.96	y	42:17	0.66	24.3		-	-	*	
PCB-175	*	*	n	NotFnd	0.78	*		564	292	3.34	
PCB-187	2.19e+05	1.10	y	42:47	0.83	89.5		-	-	*	Co-elute PCB 182
PCB-182	2.19e+05	1.10	y	42:47	0.83	89.5		-	-	*	Co-elute PCB 187
PCB-183	1.16e+05	1.11	y	43:05	0.81	48.2		-	-	*	
PCB-185	*	*	n	NotFnd	0.72	*		564	292	3.58	
PCB-174	1.36e+05	1.10	y	44:02	0.72	63.8		-	-	*	
PCB-181	*	*	n	NotFnd	0.81	*		564	292	3.19	
PCB-177	9.25e+04	1.16	y	44:19	0.65	48.1		-	-	*	
PCB-171	4.31e+04	1.07	y	44:37	0.76	19.1	J	-	-	*	
PCB-173	*	*	n	NotFnd	0.69	*		564	292	3.76	
PCB-172	2.09e+05	1.08	y	45:21	0.73	96.4		-	-	*	
PCB-192	8.65e+06	1.08	y	45:35	0.96	3020		-	-	*	
PCB-180	3.15e+05	0.98	y	45:44	0.73	146		-	-	*	
PCB-193	3.12e+04	1.03	y	45:54	1.03	10.2	J	-	-	*	
PCB-191	*	*	n	NotFnd	1.02	*		564	292	2.54	
PCB-170	1.01e+05	1.15	y	47:02	0.73	46.6		-	-	*	
PCB-190	3.92e+04	0.97	y	47:12	1.05	12.6	J	-	-	*	
PCB-189	*	*	n	NotFnd	1.06	*		564	292	2.08	
13C-PCB-189	2.94e+07	1.06	y	48:22	1.06	9260					92.6
PCB-202	*	*	n	NotFnd	1.05	*		268	420	3.00	
PCB-201	*	*	n	NotFnd	1.01	*		268	420	3.12	
PCB-204	1.95e+07	0.92	y	45:21	1.13	7660		-	-	*	
PCB-197	1.24e+05	0.92	y	45:38	1.10	50.5		-	-	*	
PCB-200	*	*	n	NotFnd	1.04	*		268	420	3.03	
PCB-198	*	*	n	NotFnd	0.76	*		268	420	4.17	
PCB-199	4.49e+04	0.96	y	47:40	0.86	23.3		-	-	*	
PCB-203	4.85e+04	0.84	y	47:53	0.93	23.2		-	-	*	Co-elute PCB 196
PCB-196	4.85e+04	0.84	y	47:53	0.93	23.2		-	-	*	Co-elute PCB 203
13C-PCB-202	2.24e+07	0.90	y	44:45	0.85	8830					88.3
13C-PCB-178	2.10e+07	1.05	y	42:17	0.66	10600					106
13C-PCB-138	2.99e+07	1.28	y	41:29	-	58.9					
PCB-195	2.02e+04	0.97	y	49:01	0.78	6.92	J	-	-	*	
PCB-194	4.99e+04	0.77	y	49:48	0.85	15.7	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.10	*		380	868	1.98	
13C-PCB-205	3.74e+07	0.91	y	50:02	1.30	9280					92.8
PCB-208	*	*	n	NotFnd	1.06	*		484	440	1.90	
13C-PCB-208	3.12e+07	0.80	y	49:06	1.20	8420					84.2
PCB-207	1.06e+05	1.14	y	49:25	1.18	33.1		-	-	*	
PCB-206	1.47e+04	1.14	y	51:14	1.07	5.99	J	-	-	*	
13C-PCB-206	2.29e+07	0.79	y	51:14	0.94	7890					78.9
PCB-209	1.30e+05	1.30	y	52:26	1.12	38.1		-	-	*	
13C-PCB-209	3.05e+07	1.20	y	52:25	1.22	8110					81.1
13C-PCB-194	3.09e+07	0.90	y	49:47	-	60.4					

Analyst: [illegible] Date: 8/5/19

File:02AUG19Z #1-783 Acq: 2-AUG-2019 14:49:07 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:12511-005-0001-SA File Text:Frontier Analytical Laboratory



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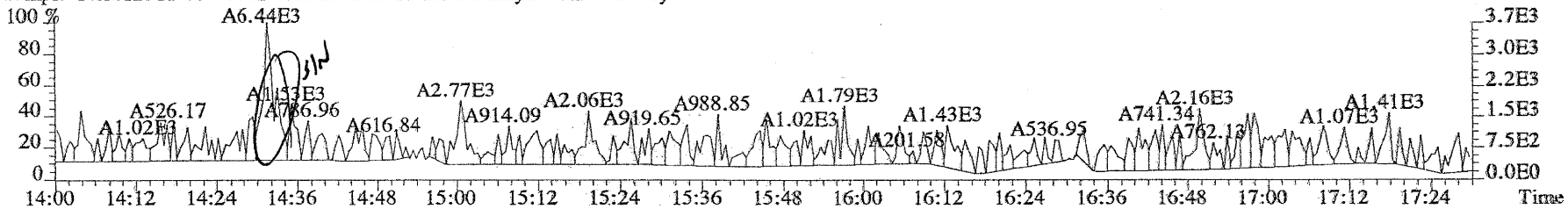

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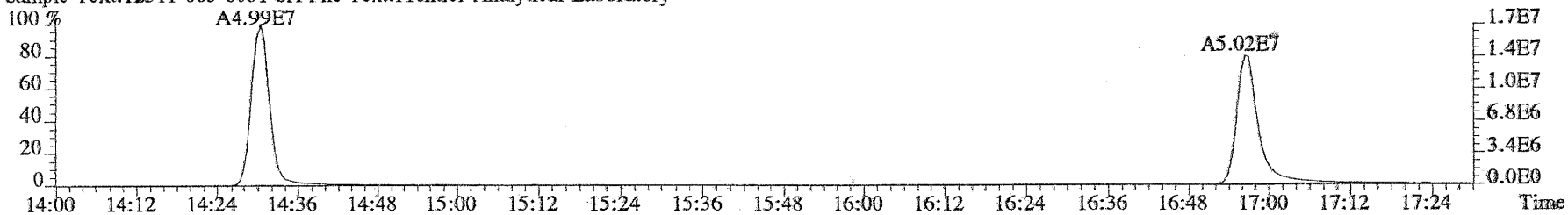

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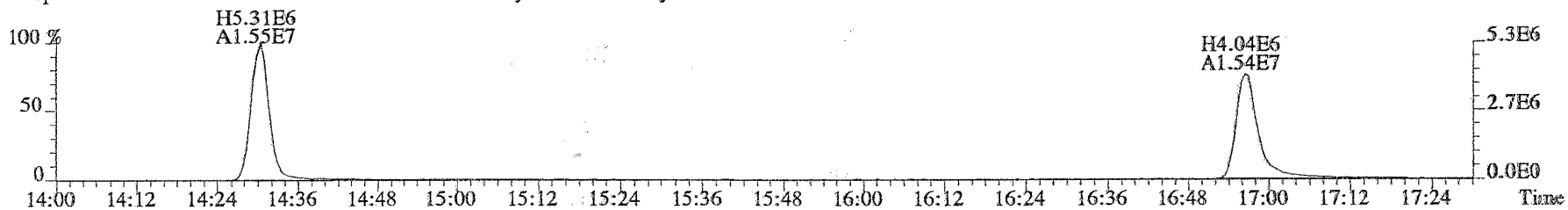

File:02AUG19Z #1-520 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
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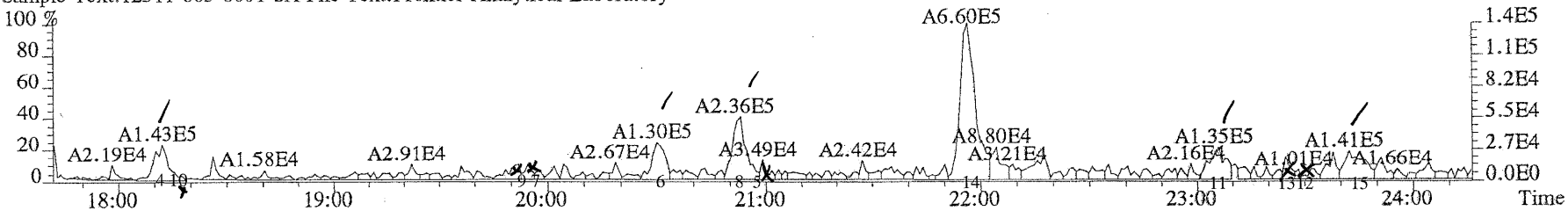

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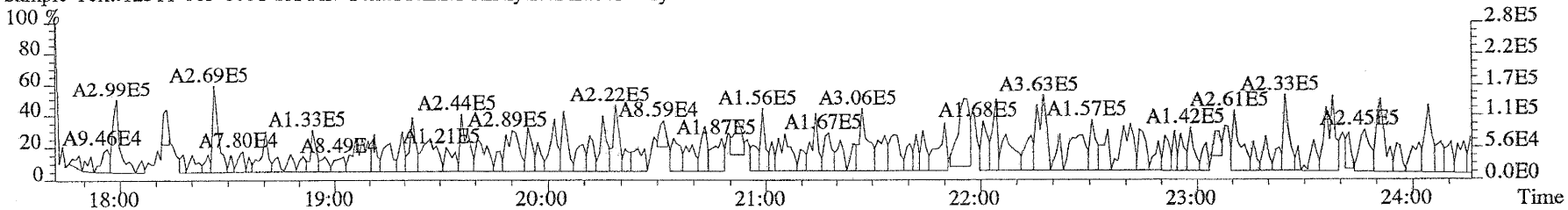
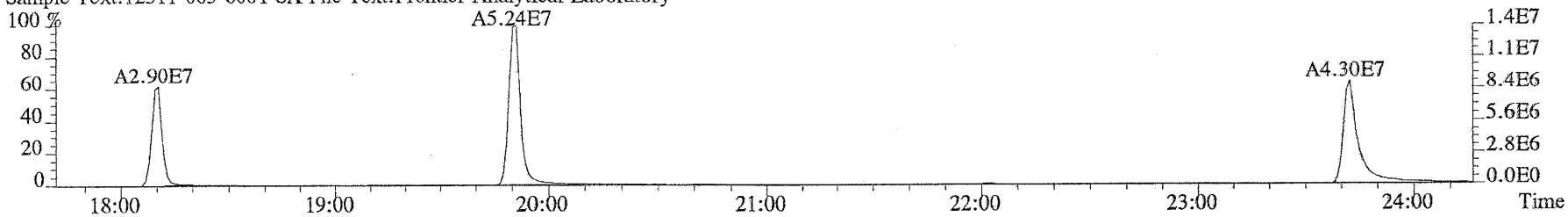


File:02AUG19Z #1-520 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-520 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
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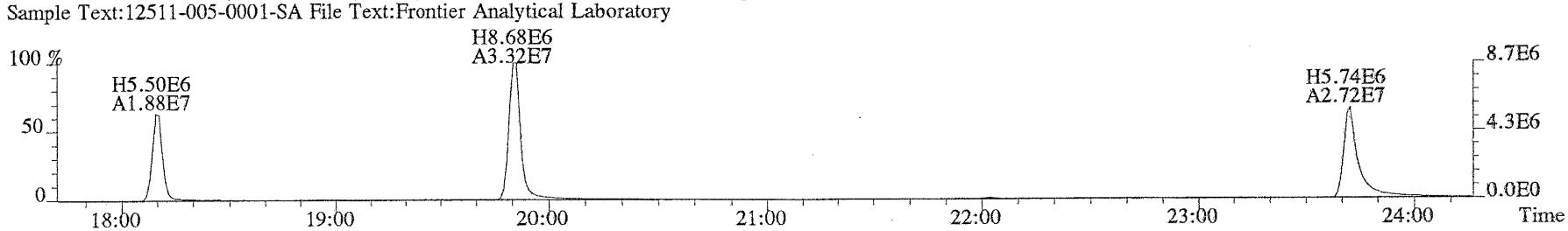
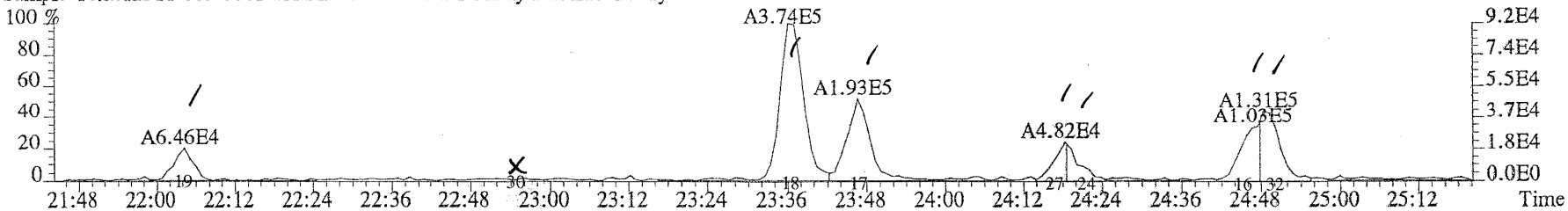
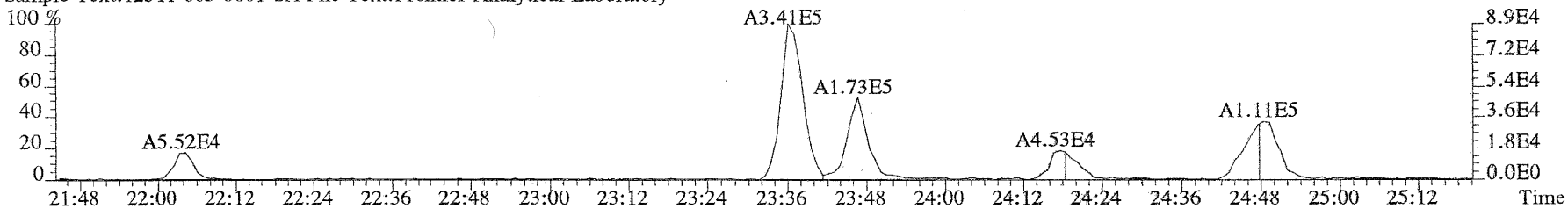
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



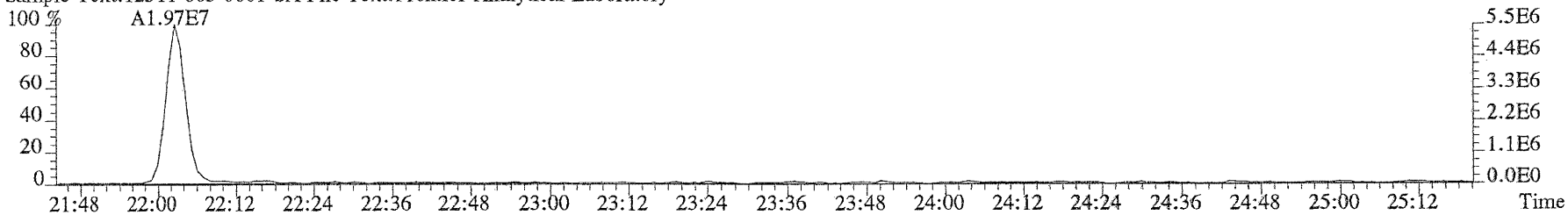
File:02AUG19Z #1-520 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-520 Acq: 2-AUG-2019 14:49:07 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:12511-005-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-520 Acq: 2-AUG-2019 14:49:07 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:12511-005-0001-SA File Text:Frontier Analytical Laboratory



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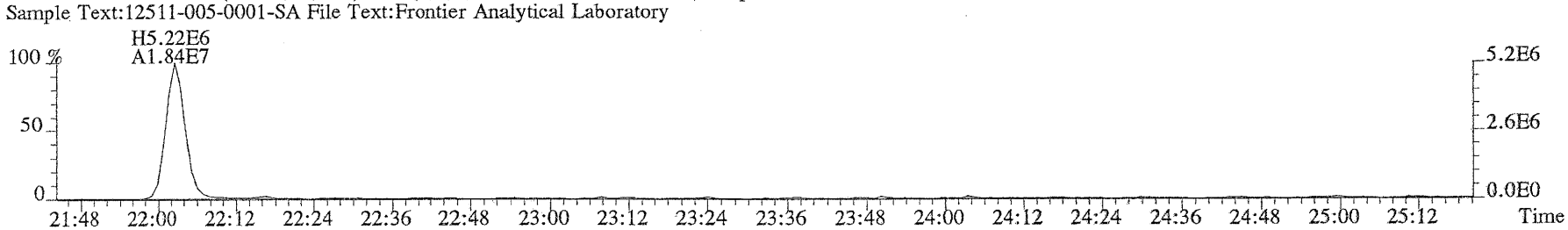
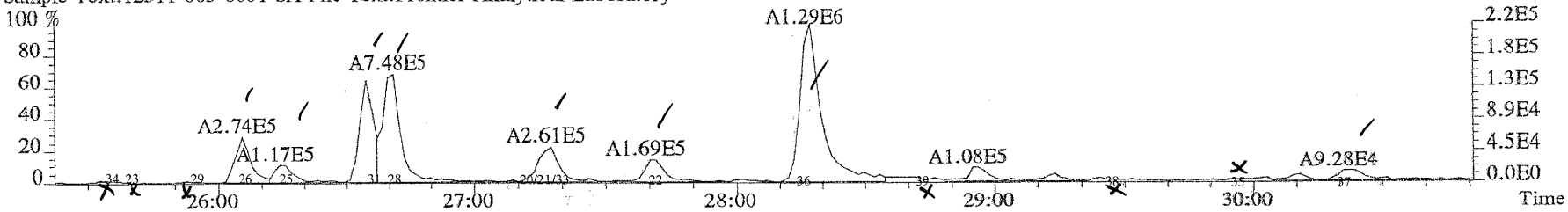
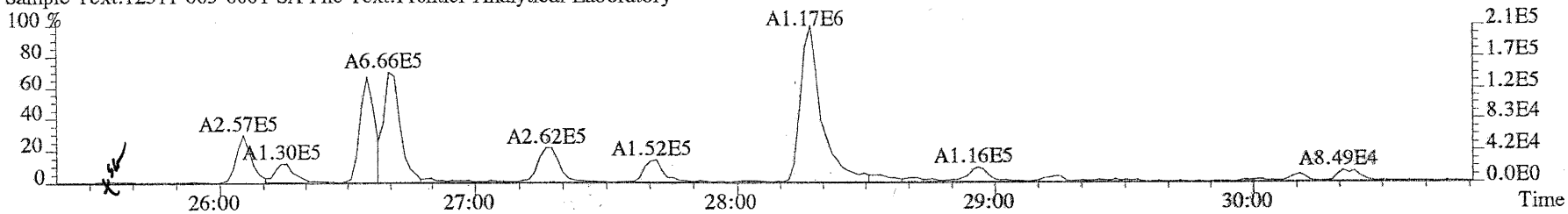
269.9986 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



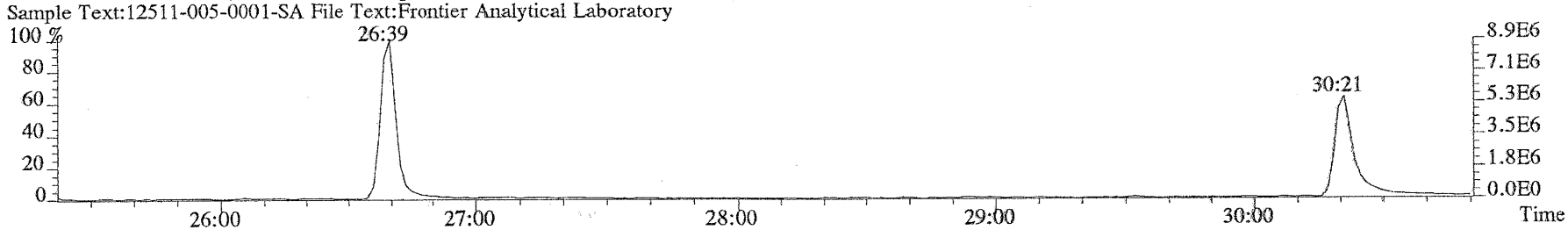
File:02AUG19Z #1-401 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



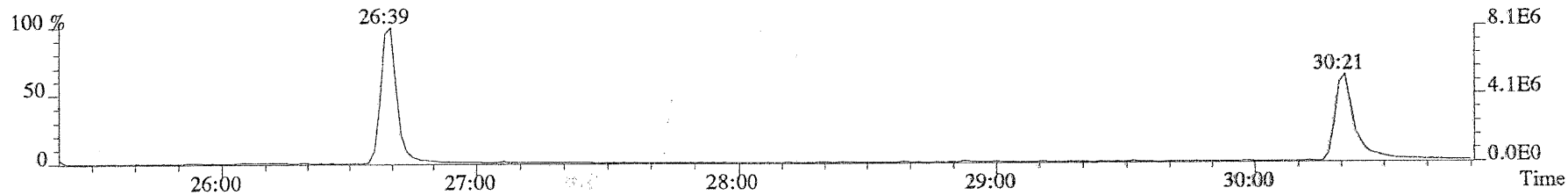
File:02AUG19Z #1-401 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



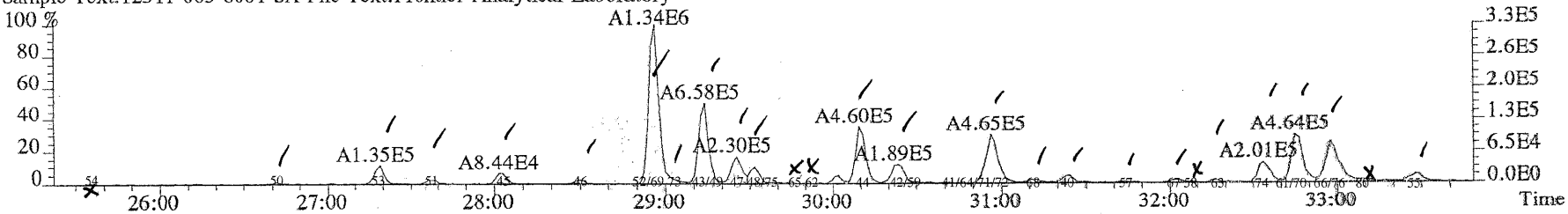
File:02AUG19Z #1-401 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



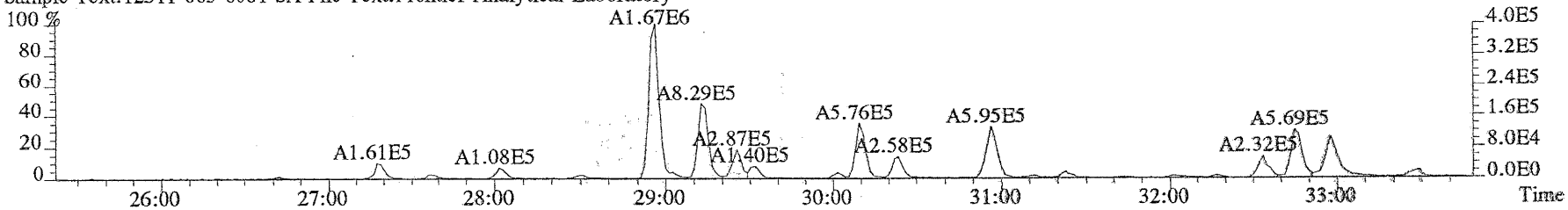
File:02AUG19Z #1-401 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



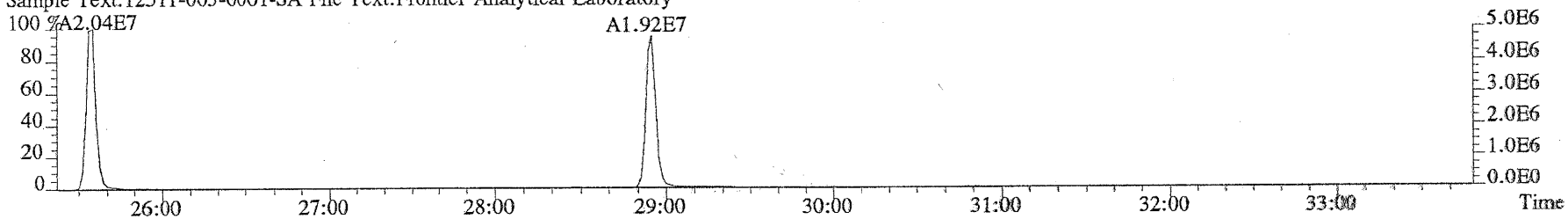
File:02AUG19Z #1-401 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



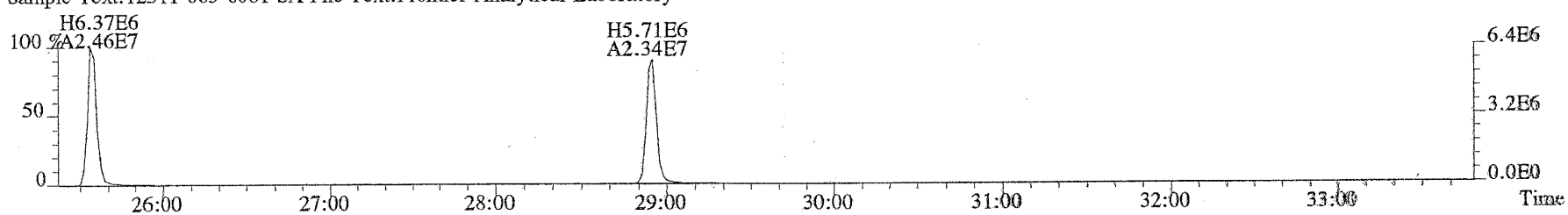
File:02AUG19Z #1-401 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



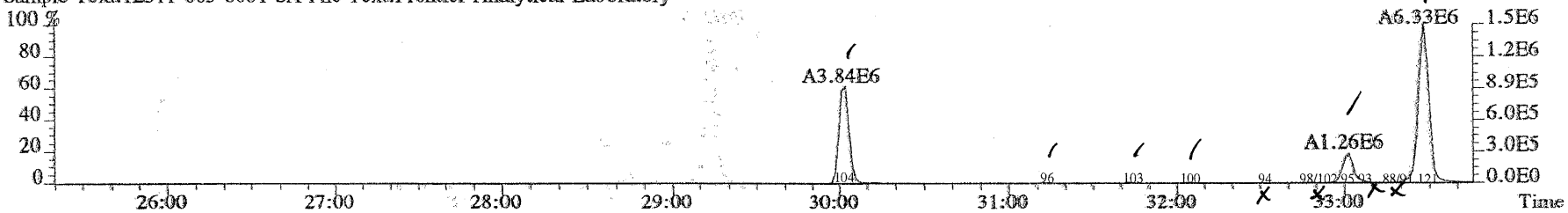
File:02AUG19Z #1-401 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



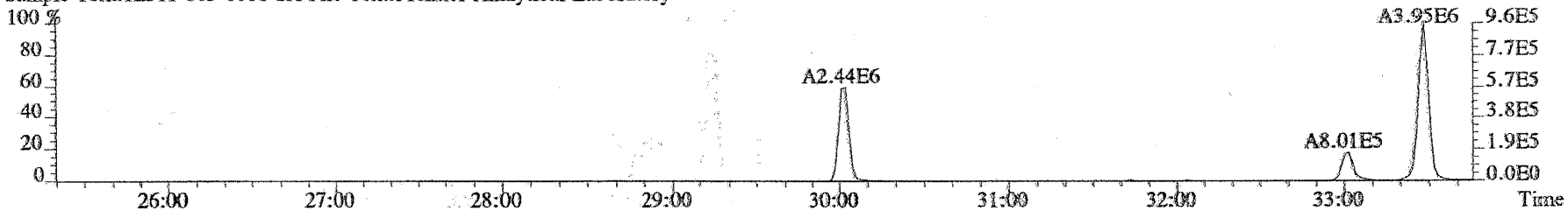
File:02AUG19Z #1-401 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



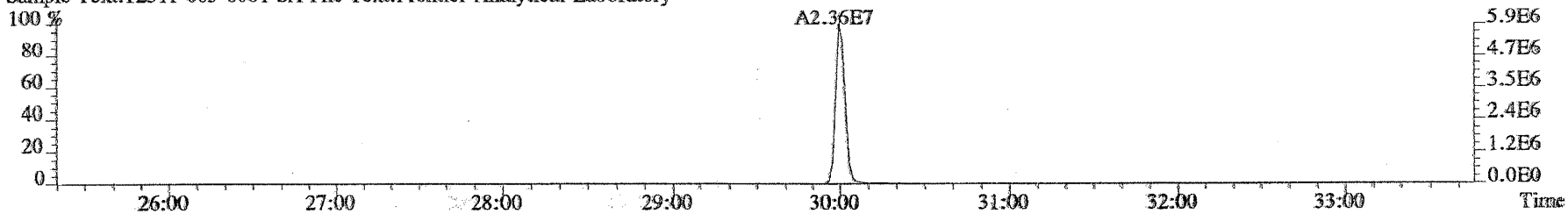
File:02AUG19Z #1-401 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



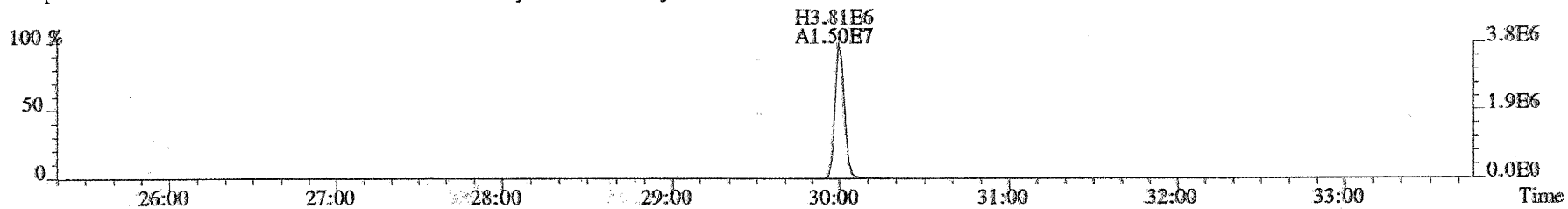
File:02AUG19Z #1-401 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



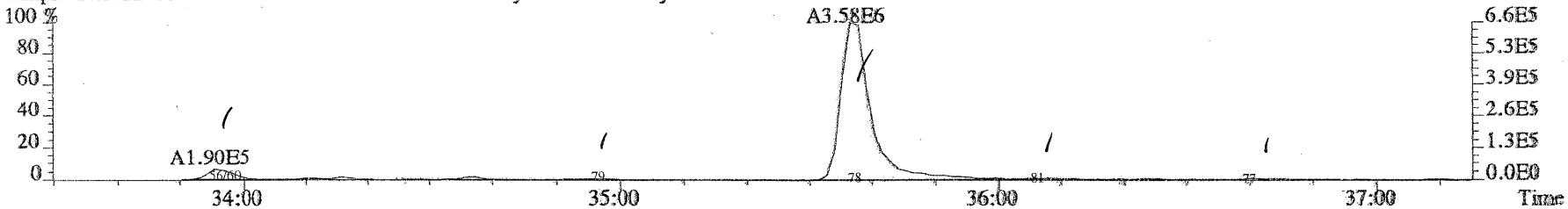
File:02AUG19Z #1-401 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



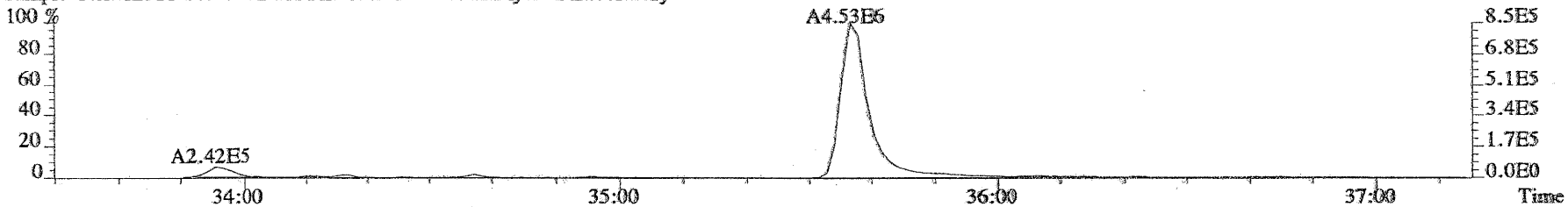
File:02AUG19Z #1-401 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



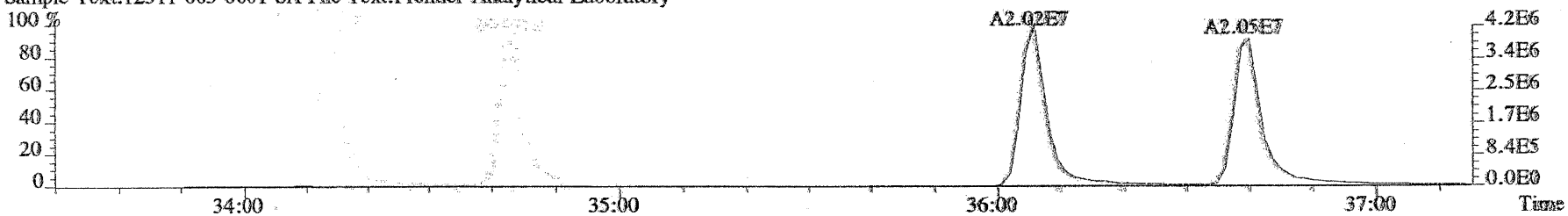
File:02AUG19Z #1-181 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



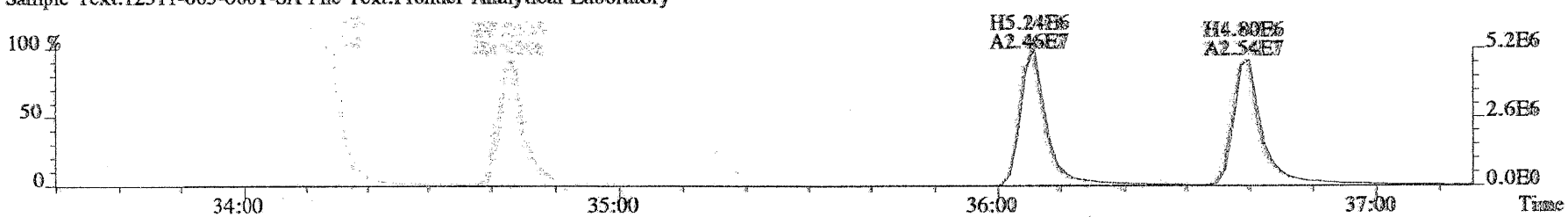
File:02AUG19Z #1-181 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



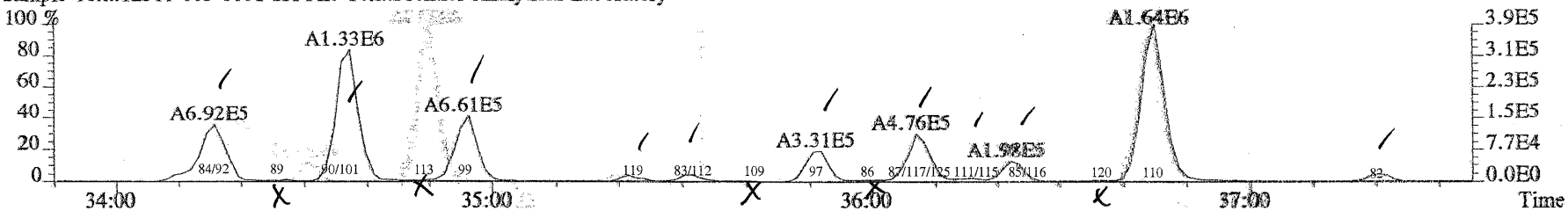
File:02AUG19Z #1-181 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



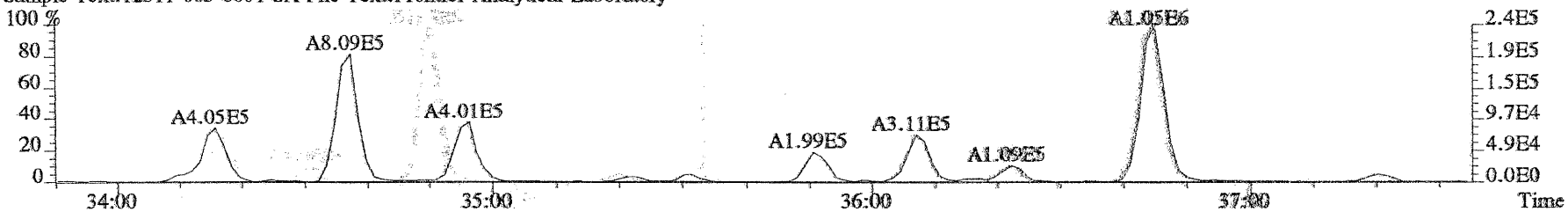
File:02AUG19Z #1-181 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



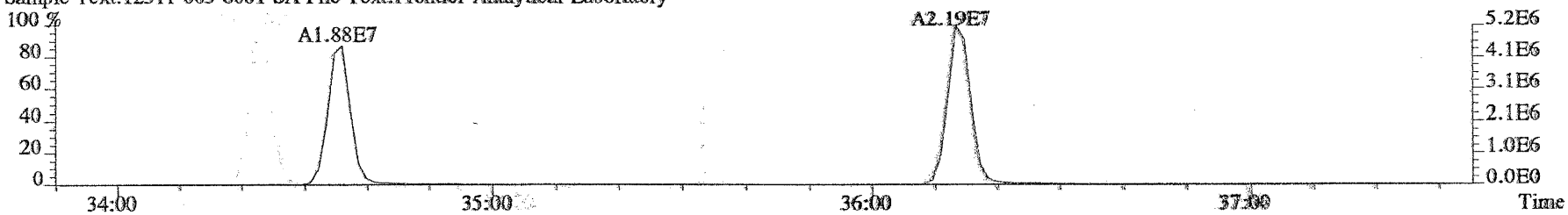
File:02AUG19Z #1-181 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



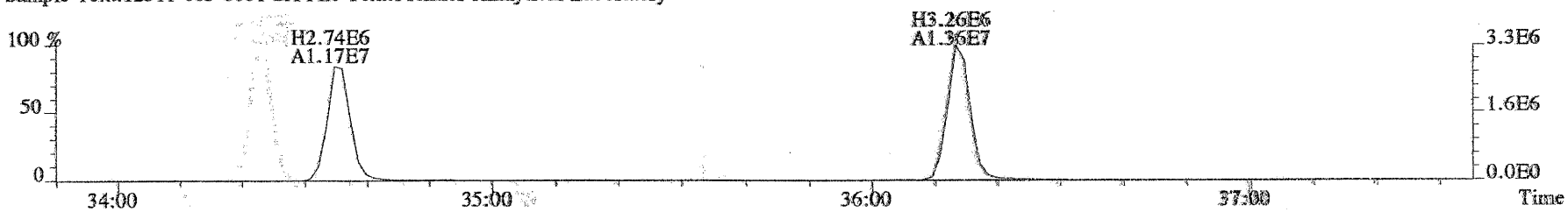
File:02AUG19Z #1-181 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



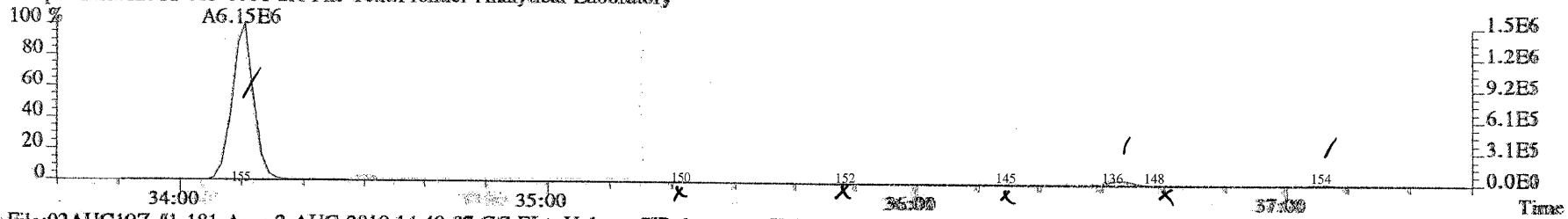
File:02AUG19Z #1-181 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



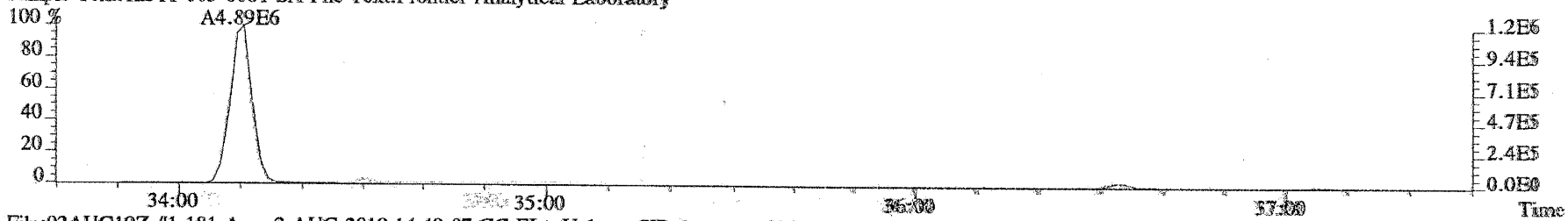
File:02AUG19Z #1-181 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



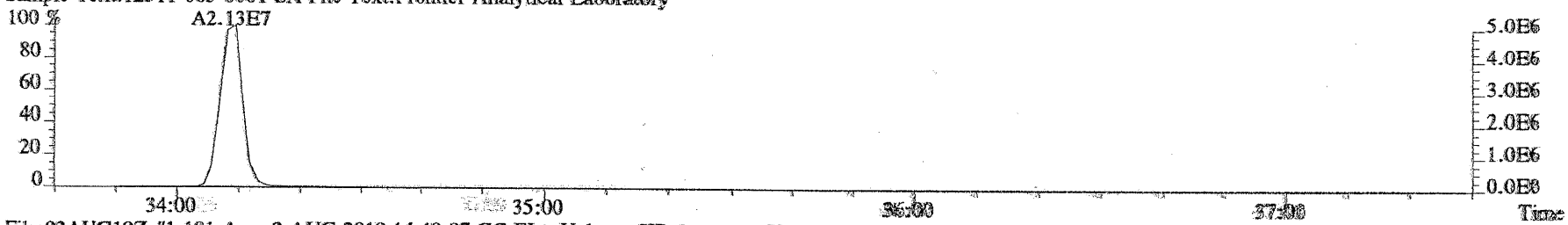
File:02AUG19Z #1-181 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-181 Acq: 2-AUG-2019 14:49:07 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:12511-005-0001-SA File Text:Frontier Analytical Laboratory

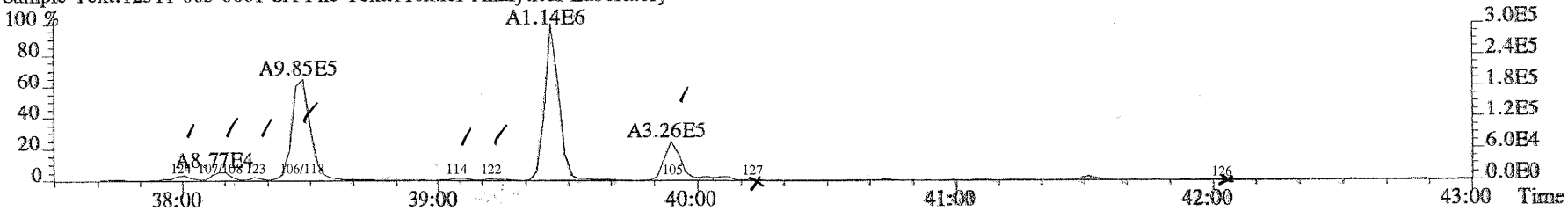


File:02AUG19Z #1-181 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory

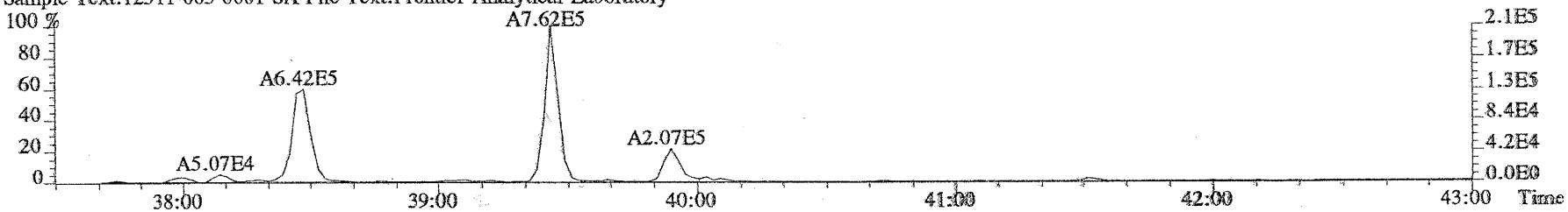


File:02AUG19Z #1-181 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory

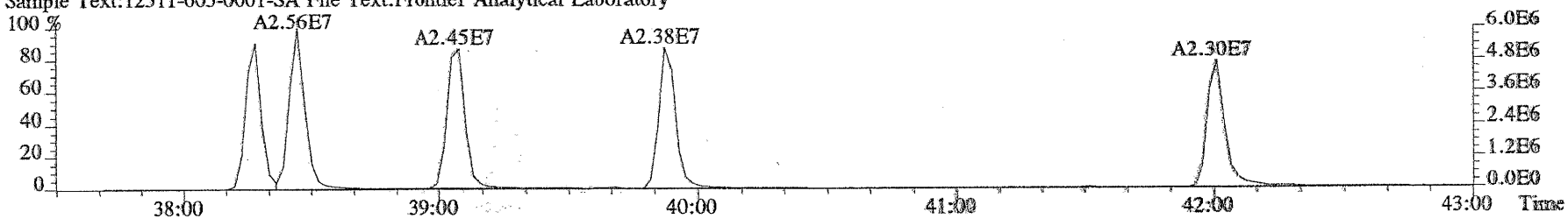
File:02AUG19Z #1-405 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



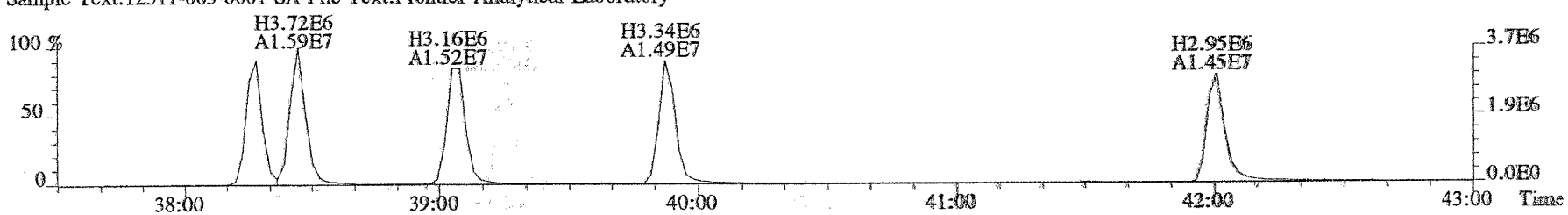
File:02AUG19Z #1-405 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



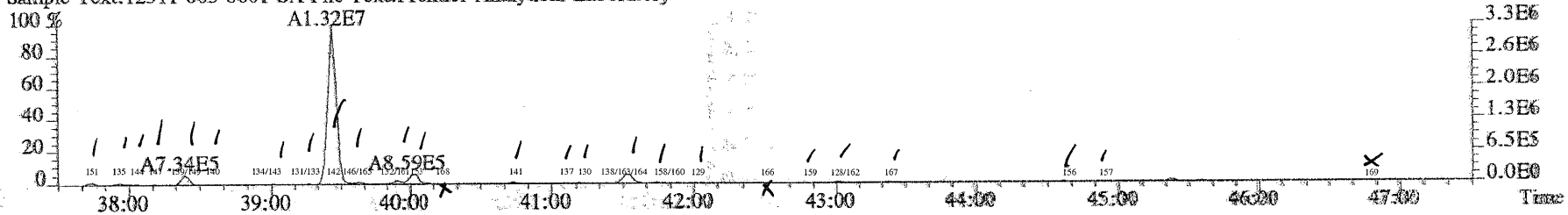
File:02AUG19Z #1-405 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-405 Acq: 2-AUG-2019 14:49:07 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:12511-005-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-405 Acq: 2-AUG-2019 14:49:07 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:12511-005-0001-SA File Text:Frontier Analytical Laboratory



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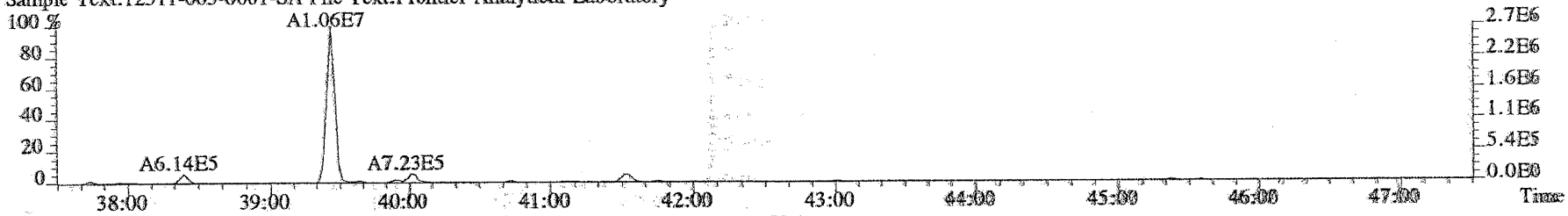
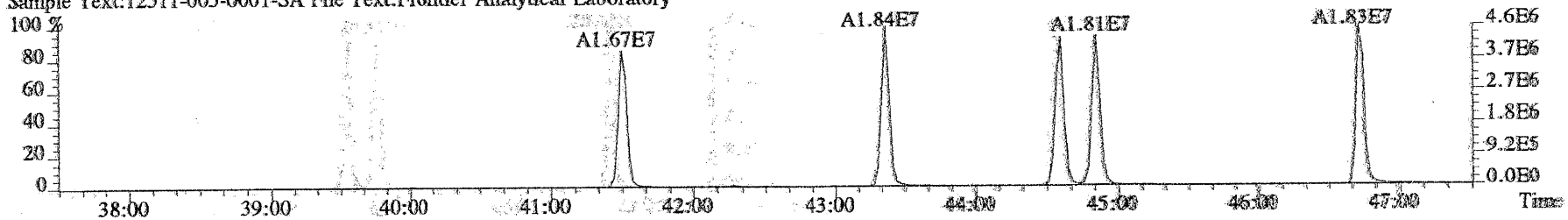
361.8385 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-405 Acq: 2-AUG-2019 14:49:07 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:12511-005-0001-SA File Text:Frontier Analytical Laboratory



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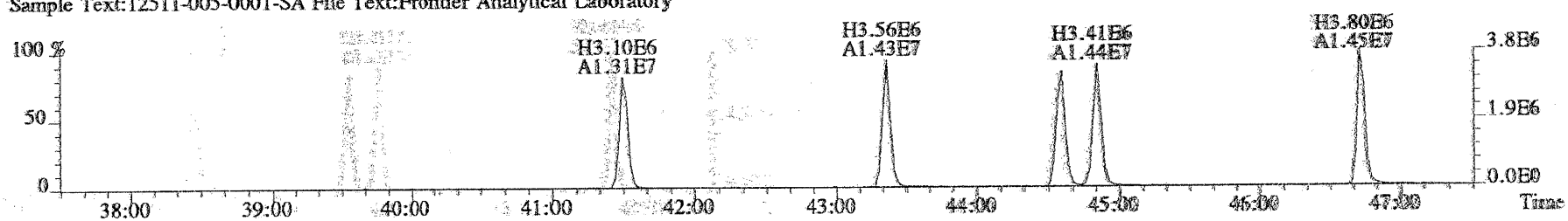
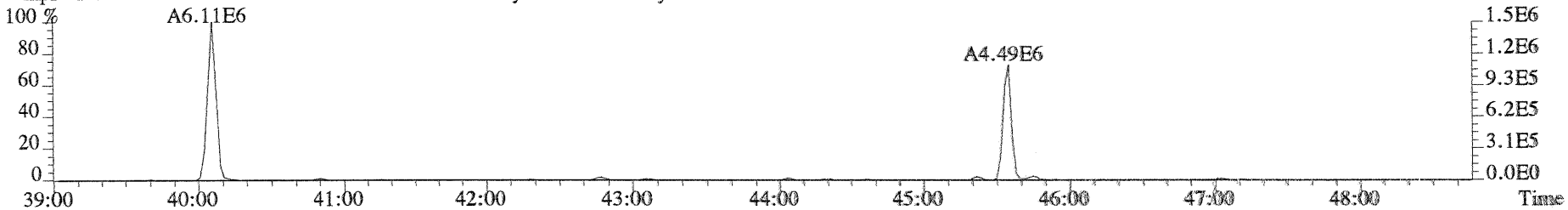
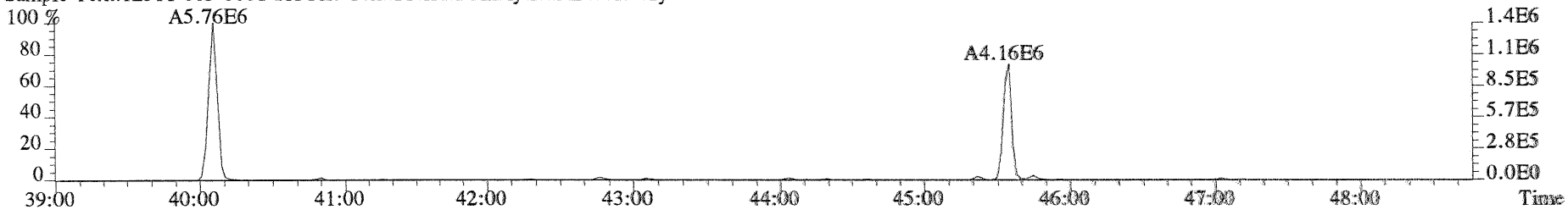
373.8788 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



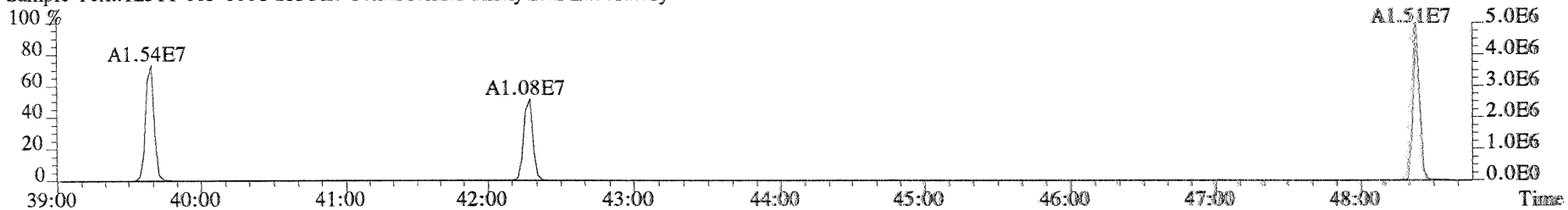
File:02AUG19Z #1-405 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:9 F:5 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



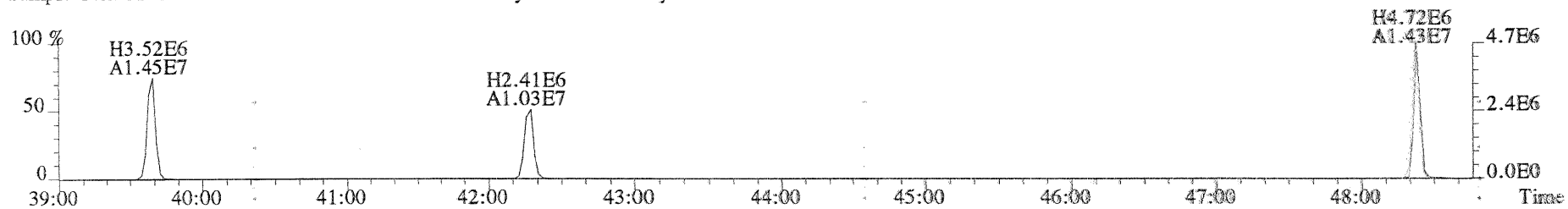
File:02AUG19Z #1-405 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:9 F:5 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



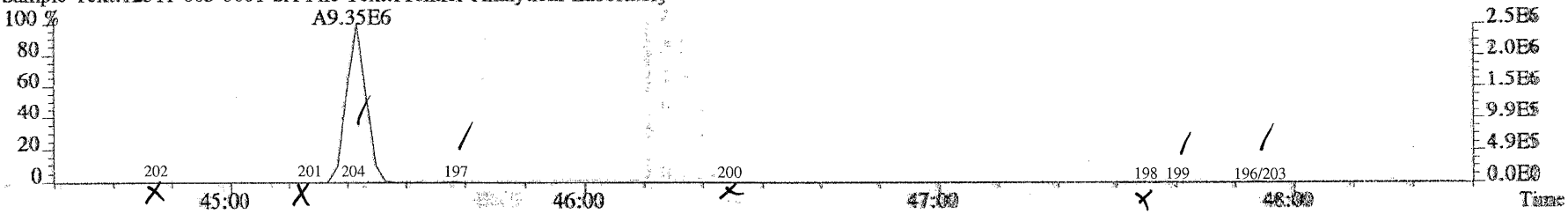
File:02AUG19Z #1-405 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



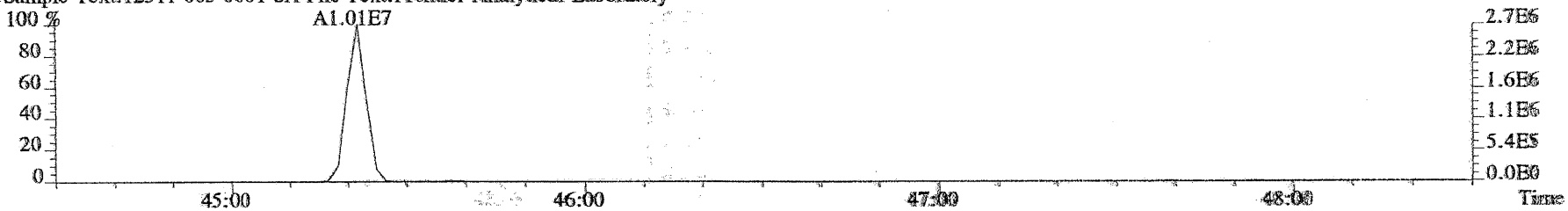
File:02AUG19Z #1-405 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



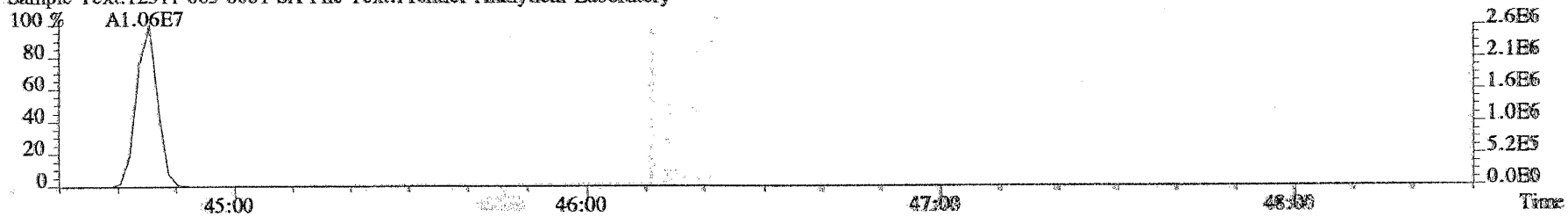
File:02AUG19Z #1-405 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



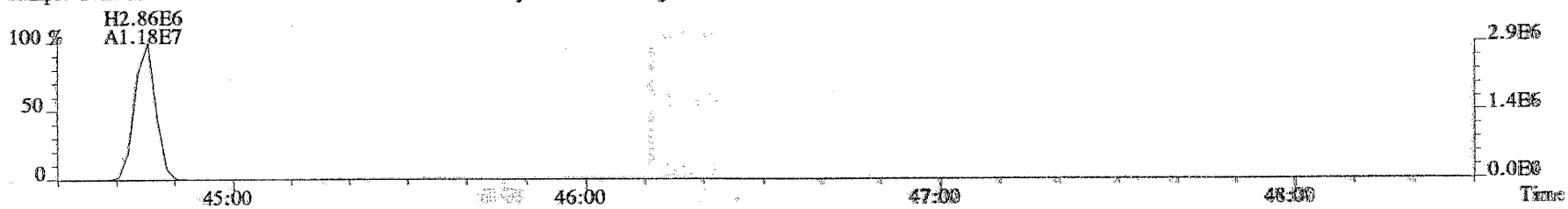
File:02AUG19Z #1-405 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



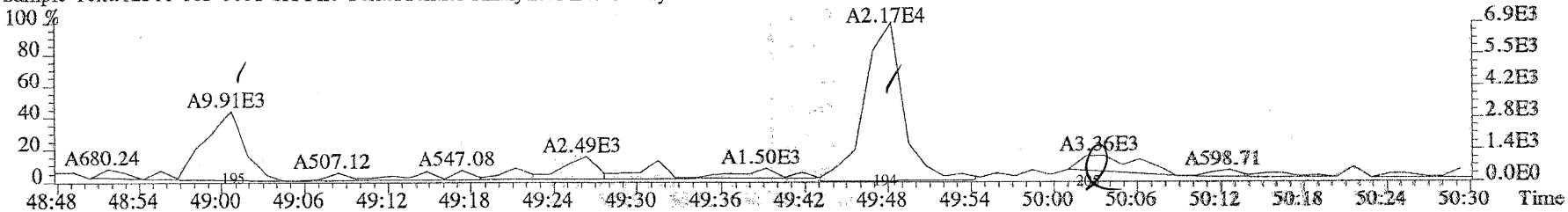
File:02AUG19Z #1-405 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



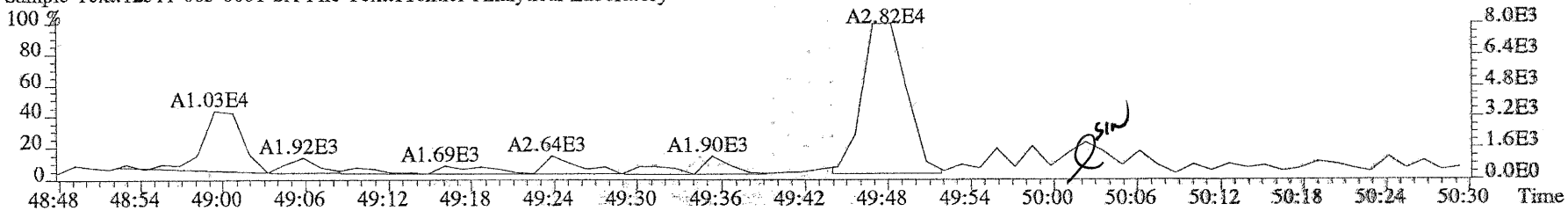
File:02AUG19Z #1-405 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



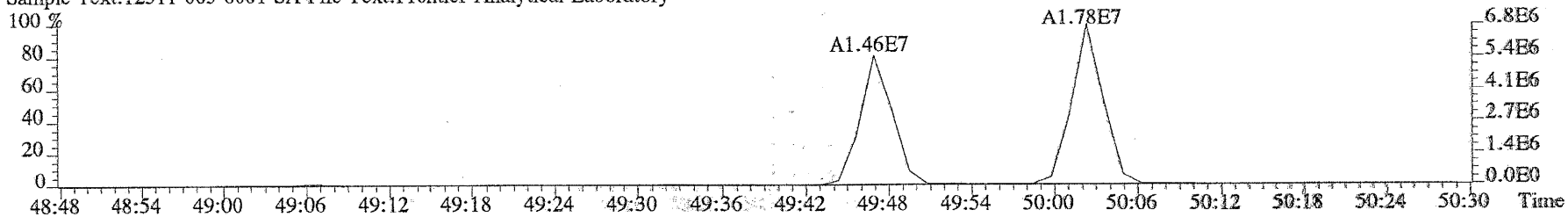
File:02AUG19Z #1-315 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



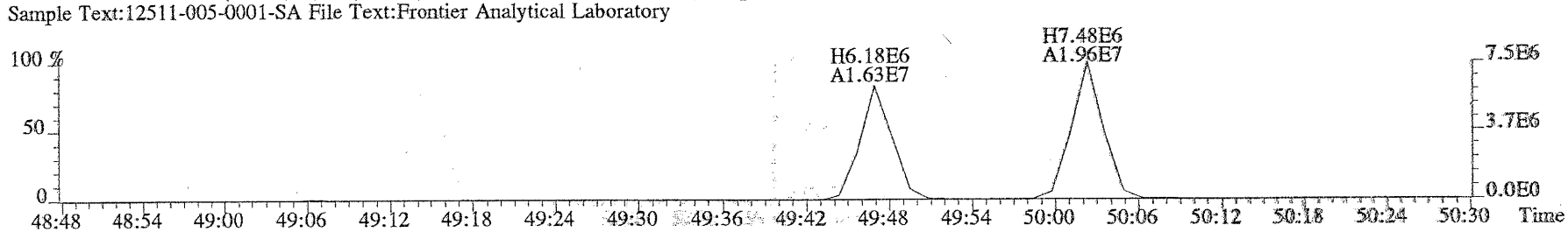
File:02AUG19Z #1-315 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



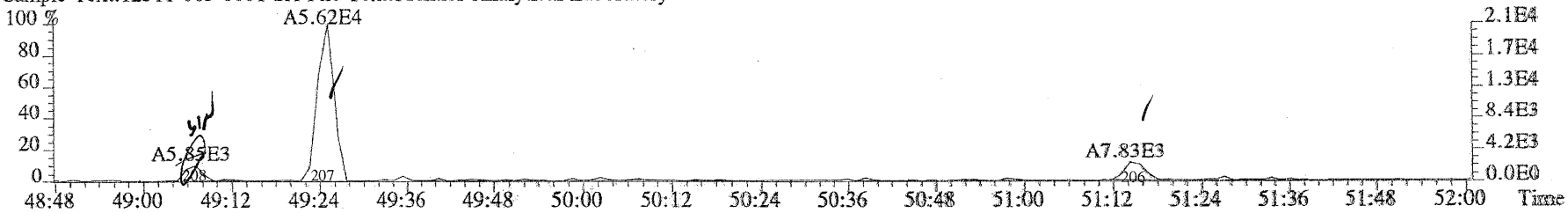
File:02AUG19Z #1-315 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



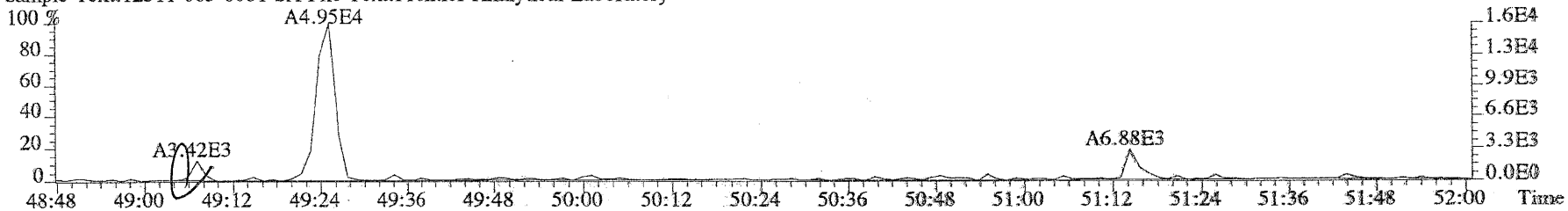
File:02AUG19Z #1-315 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



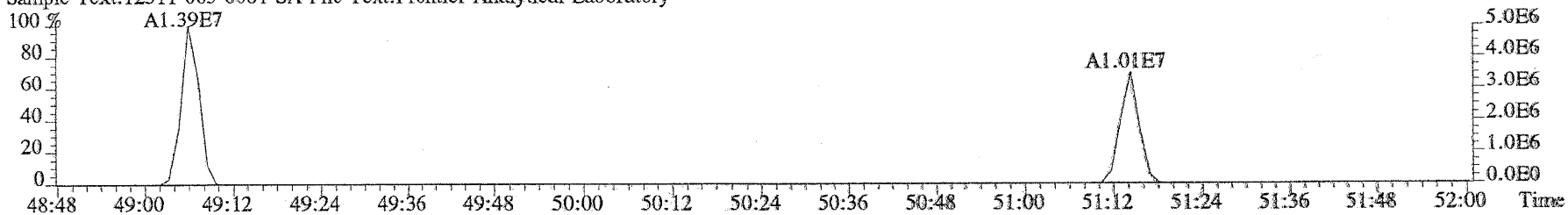
File:02AUG19Z #1-315 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



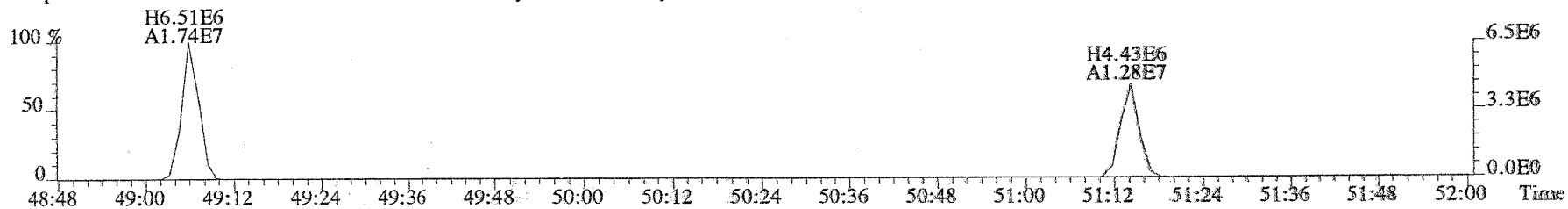
File:02AUG19Z #1-315 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



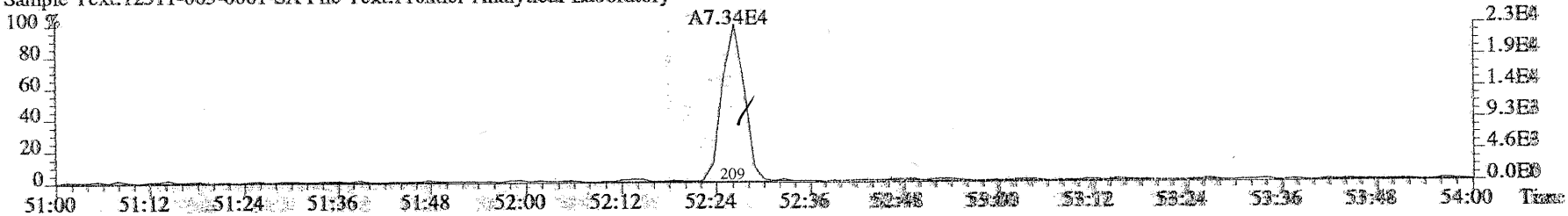
File:02AUG19Z #1-315 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



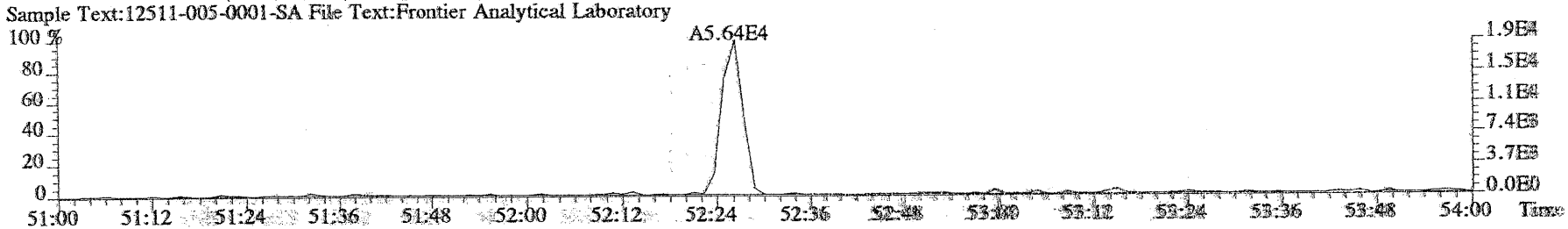
File:02AUG19Z #1-315 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



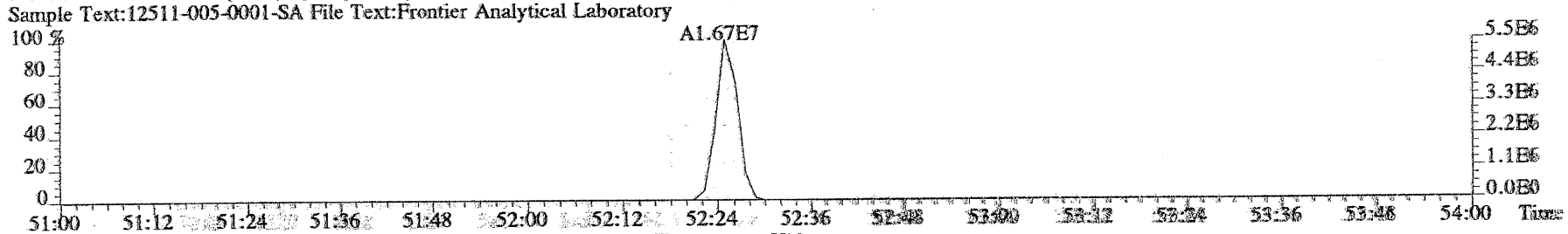
File:02AUG19Z #1-315 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



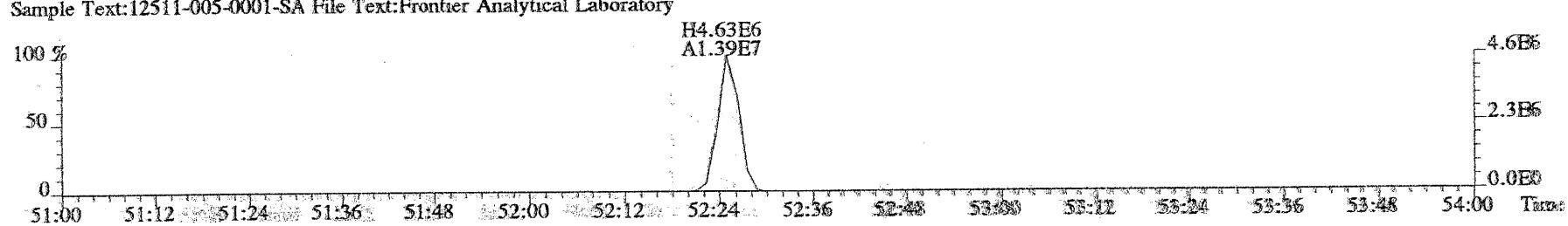
File:02AUG19Z #1-315 Acq: 2-AUG-2019 14:49:07 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-005-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 14:49:07 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:12511-005-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 14:49:07 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:12511-005-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12511-006-0001-SA Filename: 02AUG19Z Sam:10 Acquired: 2-AUG-19 15:47:28 ICal: DAILY209FAL4-8-2-19
Client ID: LDW-Y2-IN-ENR-CB-S010 ConCal: ST080219Z1 EndCal: ST080219Z2
Results: 12510-14 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	6.51e+04	3.00 y	14:32	1.16	6.74	J	-	-	*	
13C-PCB-1	8.33e+07	3.26 y	14:31	0.90	8570					85.7
PCB-2	*	* n	NotFnd	1.17	*		1580	1060	2.21	
PCB-3	8.05e+04	2.76 y	16:58	1.14	8.36	J	-	-	*	
13C-PCB-3	8.43e+07	3.27 y	16:57	0.92	8510					85.1
PCB-4	4.55e+05	1.46 y	18:11	1.24	57.5		-	-	*	
PCB-10	*	* n	NotFnd	1.21	*		880	6320	8.06	
13C-PCB-4	6.35e+07	1.56 y	18:10	0.65	9090					90.9
PCB-9	*	* n	NotFnd	1.33	*		880	6320	7.36	
PCB-7	*	* n	NotFnd	1.38	*		880	6320	7.08	
PCB-6	8.81e+05	1.44 y	20:30	1.41	81.9		-	-	*	
PCB-8	9.16e+05	1.34 y	20:52	1.29	93.1		-	-	*	
PCB-5	*	* n	NotFnd	1.37	*		880	6320	7.14	
PCB-14	2.67e+06	1.47 y	21:56	1.28	274		-	-	*	
PCB-11	2.43e+05	1.47 y	23:04	1.20	26.6		-	-	*	
PCB-13	1.87e+05	1.42 y	23:26	1.23	19.9	J	-	-	*	
PCB-12	*	* n	NotFnd	1.26	*		880	6320	7.78	
PCB-15	4.73e+05	1.57 y	23:43	1.14	46.7		-	-	*	
13C-PCB-15	8.87e+07	1.57 y	23:41	0.98	8410					84.1
PCB-19	1.68e+05	1.13 y	22:03	1.22	28.4		-	-	*	
PCB-30	*	* n	NotFnd	1.84	*		1730	520	2.19	
PCB-18	1.18e+06	1.07 y	23:37	1.22	199		-	-	*	
PCB-17	5.12e+05	1.06 y	23:47	1.31	80.9		-	-	*	
PCB-27	1.14e+05	1.05 y	24:17	1.79	13.2	J	-	-	*	
PCB-24	1.49e+05	1.06 y	24:18	1.78	17.3	J	-	-	*	
PCB-16	2.82e+05	1.04 y	24:47	1.47	39.6		-	-	*	
PCB-32	4.07e+05	1.10 y	24:48	1.54	54.4		-	-	*	
13C-PCB-19	4.84e+07	1.09 y	22:02	0.46	9810					98.1
13C-PCB-9	1.08e+08	1.60 y	19:50	-	63.2					
PCB-34	*	* n	NotFnd	1.26	*		2790	1700	7.18	
PCB-23	*	* n	NotFnd	1.25	*		2790	1700	7.28	
PCB-29	*	* n	NotFnd	1.30	*		2790	1700	6.98	
PCB-26	9.04e+05	1.03 y	26:05	1.28	100		-	-	*	
PCB-25	4.16e+05	0.99 y	26:14	1.22	48.2		-	-	*	
PCB-31	1.42e+06	1.02 y	26:34	1.25	160		-	-	*	
PCB-28	1.79e+06	1.04 y	26:39	1.46	174		-	-	*	
PCB-20	5.84e+05	1.15 y	27:17	1.20	69.3		-	-	*	Co-elute PCB 21/33
PCB-21	5.84e+05	1.15 y	27:17	1.20	69.3		-	-	*	Co-elute PCB 20/33
PCB-33	5.84e+05	1.15 y	27:17	1.20	69.3		-	-	*	Co-elute PCB 20/21
PCB-22	3.70e+05	1.13 y	27:40	1.28	41.1		-	-	*	
PCB-36	4.97e+06	1.03 y	28:16	1.18	599		-	-	*	
PCB-39	*	* n	NotFnd	1.17	*		2790	1700	7.73	
PCB-38	*	* n	NotFnd	1.16	*		2790	1700	7.84	
PCB-35	*	* n	NotFnd	1.07	*		2790	1700	8.46	
PCB-37	2.15e+05	1.14 y	30:22	1.13	26.8		-	-	*	
13C-PCB-37	7.06e+07	1.05 y	30:19	1.48	9160					91.6

PCB-54	*	*	n	NotFnd	1.26	*		620	1070	2.11	
PCB-50	4.28e+04	0.75	y	26:42	0.98	7.45	J	-	-	*	
PCB-53	3.66e+05	0.84	y	27:17	0.97	64.3		-	-	*	
PCB-51	8.56e+04	0.70	y	27:38	1.00	14.6	J	-	-	*	
PCB-45	2.31e+05	0.70	y	28:02	0.84	46.9		-	-	*	
PCB-46	7.41e+04	0.73	y	28:31	0.80	15.9	J	-	-	*	
PCB-52	3.49e+06	0.81	y	28:56	0.97	616		-	-	*	Co-elute PCB 69
PCB-69	3.49e+06	0.81	y	28:56	0.97	616		-	-	*	Co-elute PCB 52
PCB-73	1.65e+05	0.68	y	29:01	1.27	22.1		-	-	*	
PCB-43	1.74e+06	0.79	y	29:12	0.87	342		-	-	*	Co-elute PCB 49
PCB-49	1.74e+06	0.79	y	29:12	0.87	342		-	-	*	Co-elute PCB 43
PCB-47	5.94e+05	0.88	y	29:24	0.92	110		-	-	*	
PCB-48	3.11e+05	0.69	y	29:31	1.07	49.7		-	-	*	Co-elute PCB 75
PCB-75	3.11e+05	0.69	y	29:31	1.07	49.7		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.06	*		620	1070	2.50	
PCB-62	*	*	n	NotFnd	1.16	*		620	1070	2.29	
PCB-44	1.28e+06	0.76	y	30:09	0.72	302		-	-	*	
PCB-42	5.33e+05	0.85	y	30:23	0.94	96.5		-	-	*	Co-elute PCB 59
PCB-59	5.33e+05	0.85	y	30:23	0.94	96.5		-	-	*	Co-elute PCB 42
PCB-72	1.24e+06	0.83	y	30:56	1.06	199		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.24e+06	0.83	y	30:56	1.06	199		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.24e+06	0.83	y	30:56	1.06	199		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.24e+06	0.83	y	30:56	1.06	199		-	-	*	Co-elute PCB 72/41/71
PCB-68	7.98e+04	0.76	y	31:10	1.21	11.3	J	-	-	*	
PCB-40	1.41e+05	0.77	y	31:23	0.66	36.7		-	-	*	
PCB-57	3.34e+04	0.73	y	31:43	1.09	5.21	J	-	-	*	
PCB-67	4.68e+04	0.79	y	32:01	1.08	7.41	J	-	-	*	
PCB-58	2.79e+04	0.81	y	32:04	1.10	4.32	J	-	-	*	
PCB-63	6.10e+04	0.73	y	32:17	1.10	9.43	J	-	-	*	
PCB-74	4.61e+05	0.74	y	32:33	1.08	73.1		-	-	*	
PCB-61	1.15e+06	0.79	y	32:46	1.03	191		-	-	*	Co-elute PCB 70
PCB-70	1.15e+06	0.79	y	32:46	1.03	191		-	-	*	Co-elute PCB 61
PCB-76	1.16e+06	0.78	y	32:57	1.13	176		-	-	*	Co-elute PCB 66
PCB-66	1.16e+06	0.78	y	32:57	1.13	176		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.30	*		620	1070	2.05	
PCB-55	3.01e+05	0.77	y	33:28	1.13	45.6		-	-	*	
13C-PCB-54	5.86e+07	0.83	y	25:34	1.20	9390					93.9
PCB-104	1.02e+07	1.56	y	30:00	1.11	1890		-	-	*	
PCB-96	3.23e+04	1.46	y	31:13	1.05	6.37	J	-	-	*	
PCB-103	5.13e+04	1.42	y	31:43	0.84	12.6	J	-	-	*	
PCB-100	5.22e+04	1.36	y	32:03	0.83	12.9	J	-	-	*	
PCB-94	*	*	n	NotFnd	0.69	*		236	396	1.84	
PCB-98	*	*	n	NotFnd	0.72	*		236	396	1.77	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.72	*		236	396	1.77	Co-elute PCB 98
PCB-95	2.20e+06	1.61	y	33:01	0.71	637		-	-	*	
PCB-93	*	*	n	NotFnd	0.69	*		236	396	1.82	
PCB-88	*	*	n	NotFnd	0.77	*		236	396	1.65	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.77	*		236	396	1.65	Co-elute PCB 88
PCB-121	1.63e+07	1.57	y	33:28	0.93	3630		-	-	*	
13C-PCB-104	4.85e+07	1.58	y	29:59	0.92	10100					101
13C-PCB-28	9.17e+07	1.05	y	26:38	1.83	9620					96.2
13C-PCB-52	5.21e+07	0.82	y	28:53	-	64.3					

PCB-56	4.60e+05	0.79	y	33:55	1.26	61.6		-	-	*	Co-elute PCB 60
PCB-60	4.60e+05	0.79	y	33:55	1.26	61.6		-	-	*	Co-elute PCB 56
PCB-79	4.91e+04	0.79	y	34:57	1.19	6.98	J	-	-	*	
PCB-78	1.37e+07	0.80	y	35:36	1.10	2110		-	-	*	
PCB-81	1.83e+05	0.75	y	36:08	1.24	25.4		-	-	*	
13C-PCB-81	5.82e+07	0.80	y	36:06	1.38	10700					107
PCB-77	6.93e+04	0.67	y	36:40	1.05	11.0	J	-	-	*	
13C-PCB-77	6.01e+07	0.79	y	36:38	1.43	10700					107
PCB-155	1.70e+07	1.27	y	34:09	1.03	3490		-	-	*	
PCB-150	*	*	n	NotFnd	0.99	*		488	240	1.58	
PCB-152	*	*	n	NotFnd	0.90	*		488	240	1.74	
PCB-145	*	*	n	NotFnd	0.86	*		488	240	1.82	
PCB-136	3.26e+05	1.32	y	36:33	0.81	85.3		-	-	*	
PCB-148	*	*	n	NotFnd	0.60	*		488	240	2.59	
PCB-154	7.23e+04	1.33	y	37:06	0.68	22.5		-	-	*	
13C-PCB-155	4.73e+07	1.27	y	34:08	1.23	9720					97.2
13C-PCB-111	4.53e+07	1.63	y	36:13	1.08	10600					106
13C-PCB-101	3.95e+07	1.61	y	34:35	-	63.7					
PCB-84	1.27e+06	1.57	y	34:16	0.87	280		-	-	*	Co-elute PCB 92
PCB-92	1.27e+06	1.57	y	34:16	0.87	280		-	-	*	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.87	*		1110	1030	5.36	
PCB-90	2.32e+06	1.56	y	34:36	0.98	459		-	-	*	Co-elute PCB 101
PCB-101	2.32e+06	1.56	y	34:36	0.98	459		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*		1110	1030	4.29	
PCB-99	1.12e+06	1.64	y	34:56	1.12	195		-	-	*	
PCB-119	1.07e+05	1.65	y	35:21	1.20	17.1	J	-	-	*	
PCB-83	1.33e+05	1.42	y	35:31	0.88	29.3		-	-	*	Co-elute PCB 112
PCB-112	1.33e+05	1.42	y	35:31	0.88	29.3		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.06	*		1110	1030	4.41	
PCB-97	2.93e+04	1.49	y	35:58	0.72	7.90	J	-	-	*	
PCB-86	*	*	n	NotFnd	0.71	*		1110	1030	6.59	
PCB-125	8.56e+05	1.50	y	36:07	0.95	174		-	-	*	Co-elute PCB 87/117
PCB-87	8.56e+05	1.50	y	36:07	0.95	174		-	-	*	Co-elute PCB 125/117
PCB-117	8.56e+05	1.50	y	36:07	0.95	174		-	-	*	Co-elute PCB 125/87
PCB-111	4.74e+04	1.34	y	36:14	1.15	7.97	J	-	-	*	Co-elute PCB 115
PCB-115	4.74e+04	1.34	y	36:14	1.15	7.97	J	-	-	*	Co-elute PCB 111
PCB-85	3.22e+05	1.61	y	36:22	0.87	71.8		-	-	*	Co-elute PCB 116
PCB-116	3.22e+05	1.61	y	36:22	0.87	71.8		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.13	*		1110	1030	4.16	
PCB-110	2.96e+06	1.56	y	36:45	1.04	553		-	-	*	
PCB-82	1.51e+05	1.54	y	37:20	0.60	48.5		-	-	*	
PCB-124	9.82e+04	1.51	y	37:59	1.04	18.3	J	-	-	*	
PCB-108	1.67e+05	1.36	y	38:08	1.10	29.4		-	-	*	Co-elute PCB 107
PCB-107	1.67e+05	1.36	y	38:08	1.10	29.4		-	-	*	Co-elute PCB 108
PCB-123	4.28e+04	1.63	y	38:17	1.05	8.04	J	-	-	*	
13C-PCB-123	5.04e+07	1.58	y	38:17	1.31	10100					101
PCB-118	1.76e+06	1.54	y	38:28	1.04	312		-	-	*	Co-elute PCB 106
PCB-106	1.76e+06	1.54	y	38:28	1.04	312		-	-	*	Co-elute PCB 118
13C-PCB-118	5.41e+07	1.59	y	38:27	1.51	9400					94.0
PCB-114	4.74e+04	1.56	y	39:04	1.11	8.18	J	-	-	*	
13C-PCB-114	5.20e+07	1.59	y	39:03	1.42	9600					96.0
PCB-122	2.78e+04	1.43	y	39:11	1.07	5.02	J	-	-	*	
PCB-105	5.75e+05	1.38	y	39:54	1.13	101		-	-	*	
13C-PCB-105	5.01e+07	1.60	y	39:52	1.44	9120					91.2

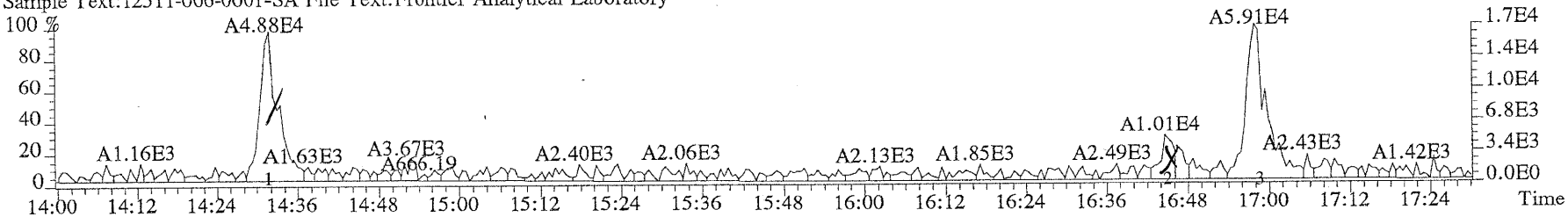
PCB-127	*	*	n	NotFnd	1.05	*		492	972	3.05	
PCB-126	*	*	n	NotFnd	1.08	*		492	972	3.64	
13C-PCB-126	4.78e+07	1.57	y	42:01	1.36	9200					92.0
PCB-151	3.54e+05	1.35	y	37:44	0.76	113		-	-	*	
PCB-135	2.37e+05	1.29	y	37:55	0.78	73.7		-	-	*	
PCB-144	7.40e+04	1.11	y	38:02	0.80	22.4		-	-	*	
PCB-147	4.97e+04	1.21	y	38:08	0.92	13.2	J	-	-	*	
PCB-139	1.42e+06	1.20	y	38:23	0.89	388		-	-	*	Co-elute PCB 149
PCB-149	1.42e+06	1.20	y	38:23	0.89	388		-	-	*	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.87	*		636	664	3.85	
PCB-143	1.07e+05	1.06	y	39:01	0.75	34.6		-	-	*	Co-elute PCB 134
PCB-134	1.07e+05	1.06	y	39:01	0.75	34.6		-	-	*	Co-elute PCB 143
PCB-131	4.81e+04	1.20	y	39:16	0.72	16.3	J	-	-	*	Co-elute PCB 133
PCB-133	4.81e+04	1.20	y	39:16	0.72	16.3	J	-	-	*	Co-elute PCB 131
PCB-142	3.62e+07	1.27	y	39:26	0.74	12000		-	-	*	
PCB-165	3.91e+05	1.20	y	39:37	1.01	94.1		-	-	*	Co-elute PCB 146
PCB-146	3.91e+05	1.20	y	39:37	1.01	94.1		-	-	*	Co-elute PCB 165
PCB-161	4.64e+05	1.24	y	39:54	0.94	120		-	-	*	Co-elute PCB 132
PCB-132	4.64e+05	1.24	y	39:54	0.94	120		-	-	*	Co-elute PCB 161
PCB-153	1.68e+06	1.27	y	40:00	0.96	426		-	-	*	
PCB-168	*	*	n	NotFnd	1.09	*		636	664	3.05	
PCB-141	2.12e+05	1.14	y	40:43	0.79	65.1		-	-	*	
PCB-137	7.15e+04	1.32	y	41:05	0.83	20.8		-	-	*	
PCB-130	1.06e+05	1.29	y	41:10	0.69	37.2		-	-	*	
PCB-138	1.66e+06	1.30	y	41:31	1.03	393		-	-	*	Co-elute PCB 163/164
PCB-163	1.66e+06	1.30	y	41:31	1.03	393		-	-	*	Co-elute PCB 138/164
PCB-164	1.66e+06	1.30	y	41:31	1.03	393		-	-	*	Co-elute PCB 138/163
PCB-158	2.00e+05	1.24	y	41:44	1.13	43.1		-	-	*	Co-elute PCB 160
PCB-160	2.00e+05	1.24	y	41:44	1.13	43.1		-	-	*	Co-elute PCB 158
PCB-129	6.77e+04	1.34	y	41:59	0.70	23.6		-	-	*	
PCB-166	*	*	n	NotFnd	1.09	*		636	664	3.06	
PCB-159	4.25e+04	1.34	y	42:47	1.17	8.86	J	-	-	*	
PCB-128	2.44e+05	1.36	y	43:00	0.93	63.6		-	-	*	Co-elute PCB 162
PCB-162	2.44e+05	1.36	y	43:00	0.93	63.6		-	-	*	Co-elute PCB 128
PCB-167	6.81e+04	1.08	y	43:23	1.11	14.7	J	-	-	*	
13C-PCB-167	4.17e+07	1.29	y	43:21	1.22	8990					89.9
PCB-156	1.20e+05	1.16	y	44:37	1.20	25.9		-	-	*	
13C-PCB-156	3.88e+07	1.31	y	44:35	1.23	8270					82.7
PCB-157	4.63e+04	1.32	y	44:52	1.11	10.0	J	-	-	*	
13C-PCB-157	4.18e+07	1.30	y	44:50	1.25	8770					87.7
PCB-169	*	*	n	NotFnd	1.05	*		636	664	2.78	
13C-PCB-169	4.21e+07	1.27	y	46:42	1.28	8600					86.0

FAL ID: 12511-006-0001-SA Filename: 02AUG19Z Sam:10 Acquired: 2-AUG-19 15:47:28 ICal: DAILY209FAL4-8-2-19
Client ID: LDW-Y2-IN-ENR-CB-S010 ConCal: ST080219Z1 EndCal: ST080219Z2
Results: 12510-14 GC Column: DB1MS Amount: 1.000

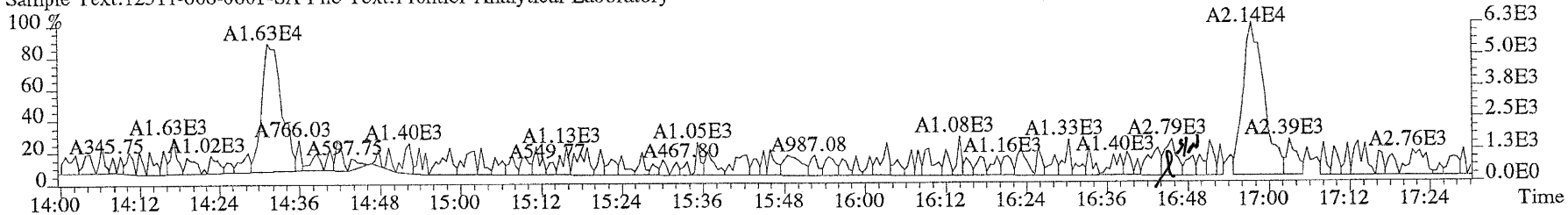
PCB-188	*	*	n	NotFnd	1.07	*		632	304	2.52	
13C-PCB-188	3.80e+07	1.07	y	39:37	1.05	9510					95.1
PCB-184	1.95e+07	1.05	y	40:05	1.06	4860		-	-	*	
PCB-179	1.25e+05	1.10	y	40:50	1.03	31.9		-	-	*	
PCB-176	3.83e+04	1.09	y	41:14	1.03	9.80	J	-	-	*	
PCB-186	*	*	n	NotFnd	1.02	*		632	304	2.20	
PCB-178	4.40e+04	0.97	y	42:19	0.66	17.6	J	-	-	*	
PCB-175	*	*	n	NotFnd	0.78	*		632	304	2.89	
PCB-187	2.37e+05	0.99	y	42:47	0.83	75.2		-	-	*	Co-elute PCB 182
PCB-182	2.37e+05	0.99	y	42:47	0.83	75.2		-	-	*	Co-elute PCB 187
PCB-183	9.89e+04	1.01	y	43:05	0.81	32.1		-	-	*	
PCB-185	2.20e+04	1.04	y	43:44	0.72	7.97	J	-	-	*	
PCB-174	1.27e+05	1.11	y	44:02	0.72	46.6		-	-	*	
PCB-181	*	*	n	NotFnd	0.81	*		632	304	2.76	
PCB-177	8.89e+04	1.15	y	44:19	0.65	36.0		-	-	*	
PCB-171	3.58e+04	1.19	y	44:37	0.76	12.4	J	-	-	*	
PCB-173	*	*	n	NotFnd	0.69	*		632	304	3.26	
PCB-172	3.63e+05	0.95	y	45:21	0.73	130		-	-	*	
PCB-192	1.37e+07	1.05	y	45:35	0.96	3730		-	-	*	
PCB-180	3.04e+05	1.01	y	45:44	0.73	109		-	-	*	
PCB-193	5.08e+04	1.05	y	45:54	1.03	12.9	J	-	-	*	
PCB-191	*	*	n	NotFnd	1.02	*		632	304	2.20	
PCB-170	9.31e+04	1.11	y	47:03	0.73	33.4		-	-	*	
PCB-190	3.91e+04	0.92	y	47:12	1.05	9.80	J	-	-	*	
PCB-189	*	*	n	NotFnd	1.06	*		632	304	1.70	
13C-PCB-189	3.81e+07	1.05	y	48:22	1.06	9390					93.9
PCB-202	*	*	n	NotFnd	1.05	*		212	424	2.17	
PCB-201	*	*	n	NotFnd	1.01	*		212	424	2.26	
PCB-204	3.05e+07	0.91	y	45:21	1.13	9100		-	-	*	
PCB-197	1.68e+05	0.97	y	45:38	1.10	51.7		-	-	*	
PCB-200	*	*	n	NotFnd	1.04	*		212	424	2.19	
PCB-198	*	*	n	NotFnd	0.76	*		212	424	3.02	
PCB-199	3.59e+04	0.89	y	47:38	0.86	14.1	J	-	-	*	
PCB-203	5.45e+04	0.89	y	47:54	0.93	19.8	J	-	-	*	Co-elute PCB 196
PCB-196	5.45e+04	0.89	y	47:54	0.93	19.8	J	-	-	*	Co-elute PCB 203
13C-PCB-202	2.96e+07	0.91	y	44:45	0.85	9120					91.2
13C-PCB-178	2.65e+07	1.07	y	42:17	0.66	10400					104
13C-PCB-138	3.82e+07	1.29	y	41:29	-	75.2					
PCB-195	1.97e+04	0.78	y	49:01	0.78	5.75	J	-	-	*	
PCB-194	5.81e+04	0.78	y	49:48	0.85	15.5	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.10	*		360	1030	1.95	
13C-PCB-205	4.40e+07	0.91	y	50:02	1.30	9140					91.4
PCB-208	*	*	n	NotFnd	1.06	*		850	844	2.76	
13C-PCB-208	4.01e+07	0.79	y	49:06	1.20	9030					90.3
PCB-207	1.48e+05	1.43	y	49:25	1.18	35.9		-	-	*	
PCB-206	*	*	n	NotFnd	1.07	*		850	844	3.97	
13C-PCB-206	2.97e+07	0.80	y	51:14	0.94	8560					85.6
PCB-209	1.86e+05	1.25	y	52:26	1.12	44.4		-	-	*	
13C-PCB-209	3.75e+07	1.22	y	52:25	1.22	8330					83.3
13C-PCB-194	3.70e+07	0.91	y	49:47	-	72.2					

Analyst: _____ Date: 8/5/19

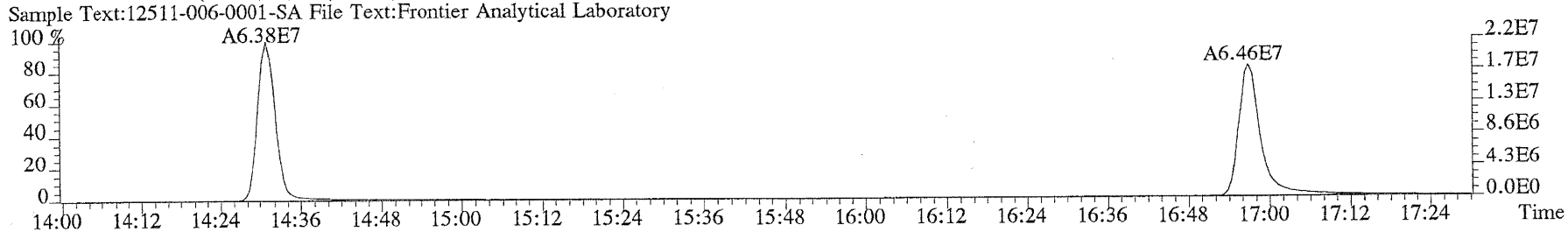
File:02AUG19Z #1-783 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:10 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



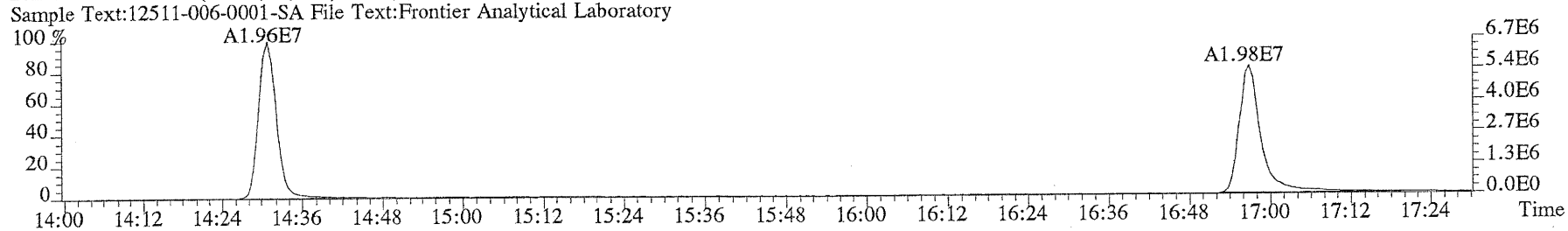
File:02AUG19Z #1-783 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:10 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



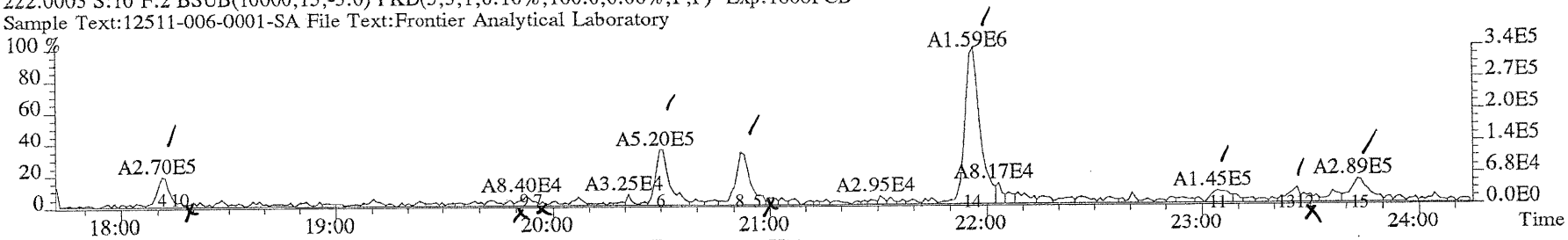
File:02AUG19Z #1-783 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:10 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



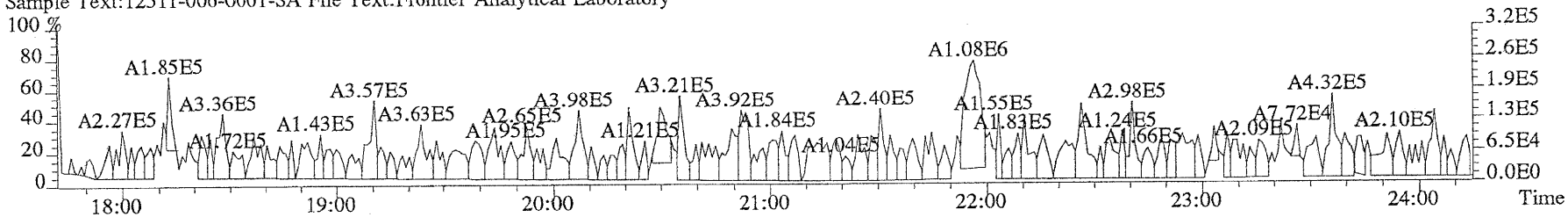
File:02AUG19Z #1-783 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:10 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



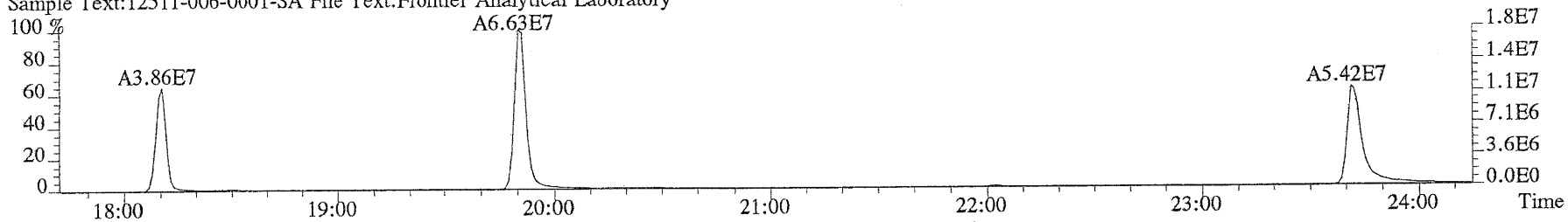
File:02AUG19Z #1-520 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



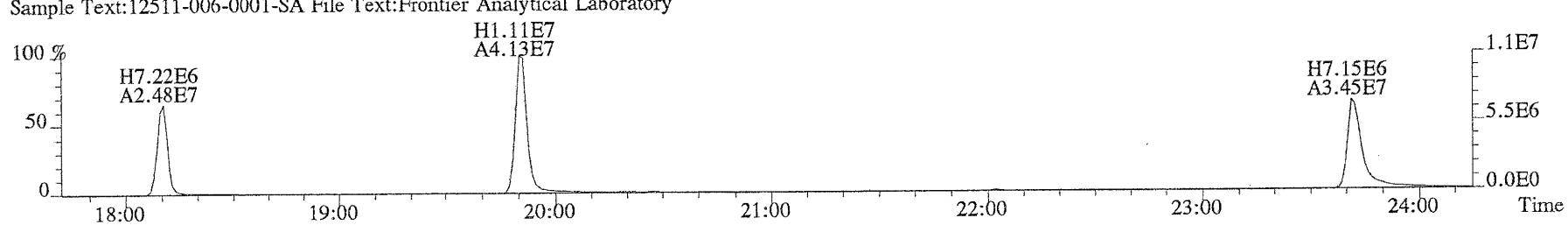
File:02AUG19Z #1-520 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



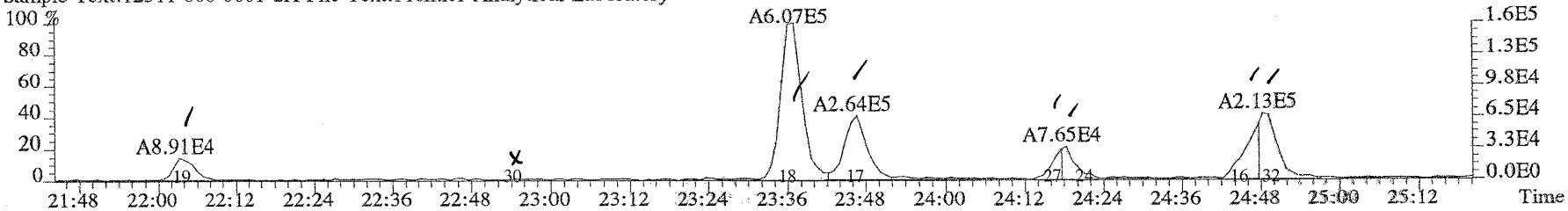
File:02AUG19Z #1-520 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



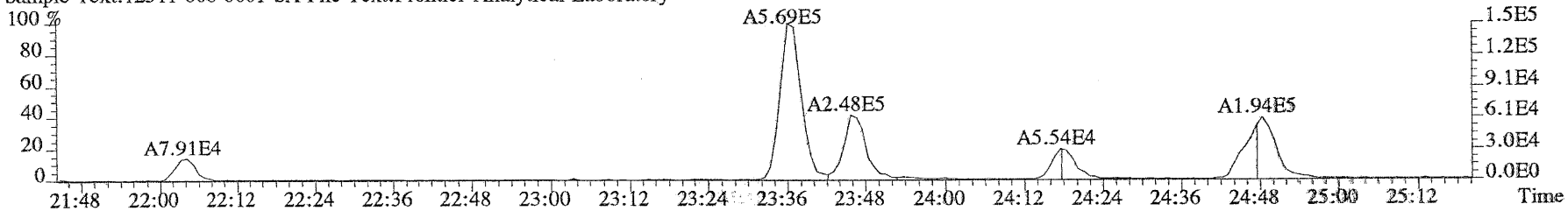
File:02AUG19Z #1-520 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



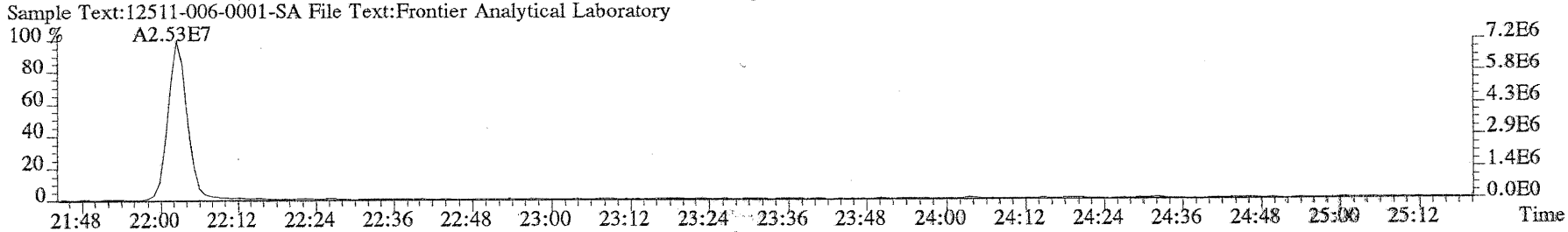
File:02AUG19Z #1-520 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



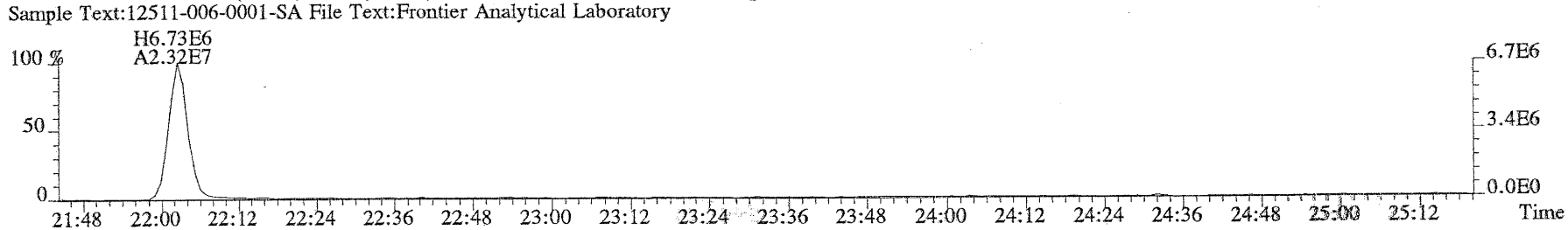
File:02AUG19Z #1-520 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



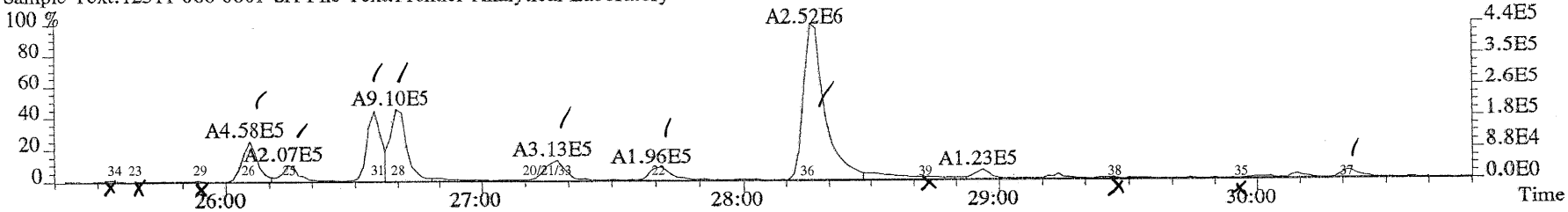
File:02AUG19Z #1-520 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



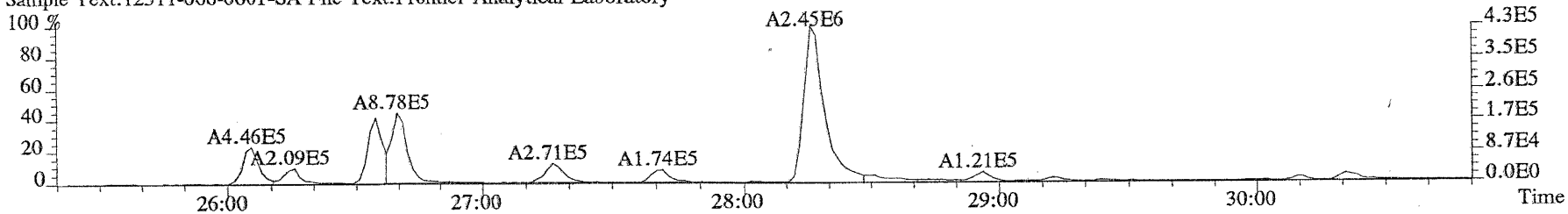
File:02AUG19Z #1-520 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



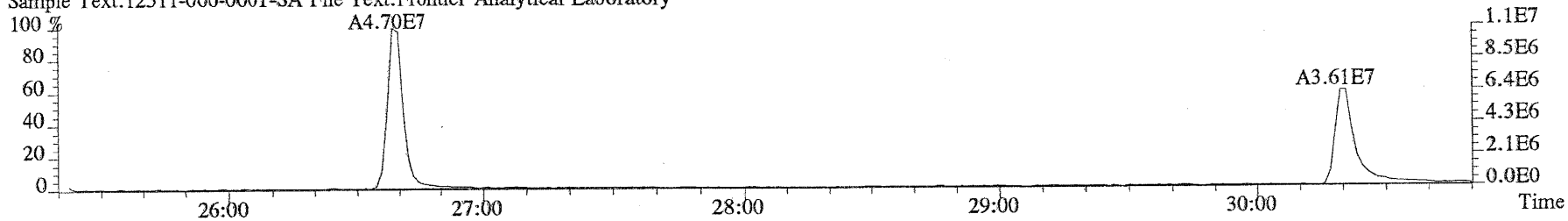
File:02AUG19Z #1-401 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



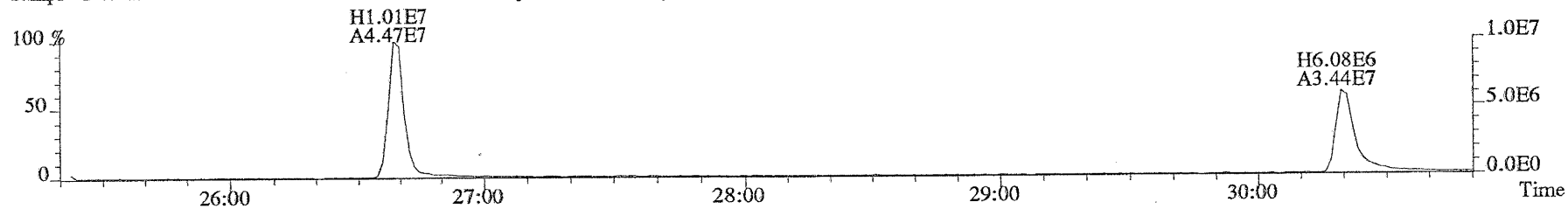
File:02AUG19Z #1-401 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



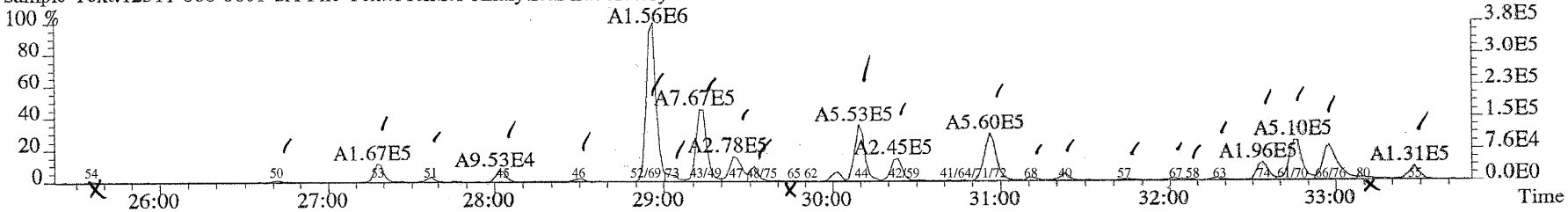
File:02AUG19Z #1-401 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



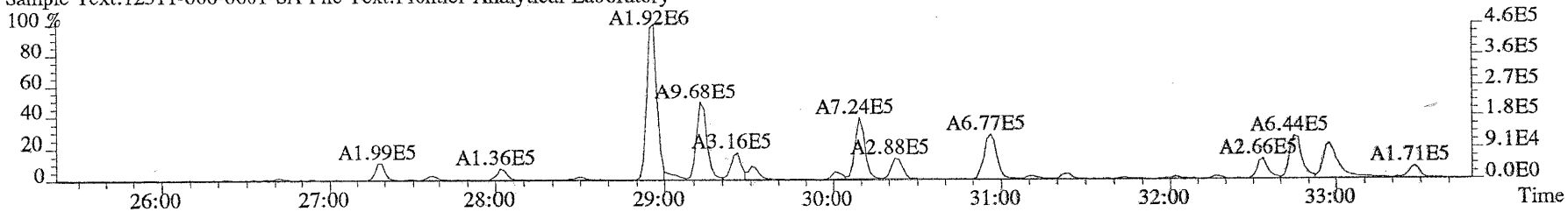
File:02AUG19Z #1-401 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



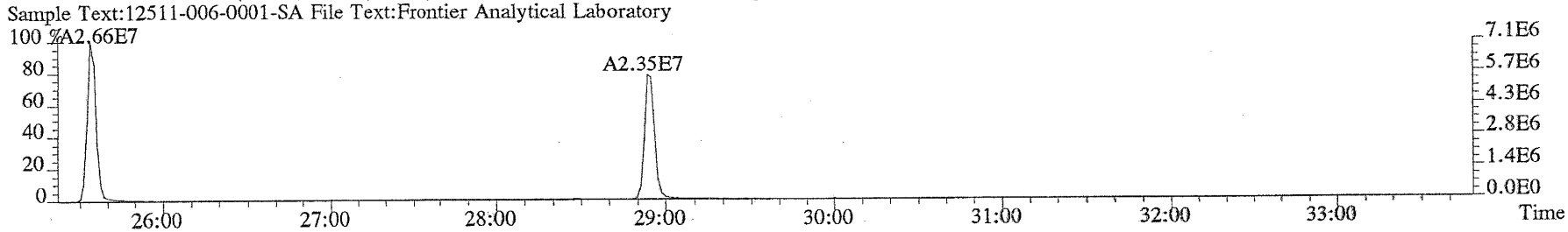
File:02AUG19Z #1-401 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



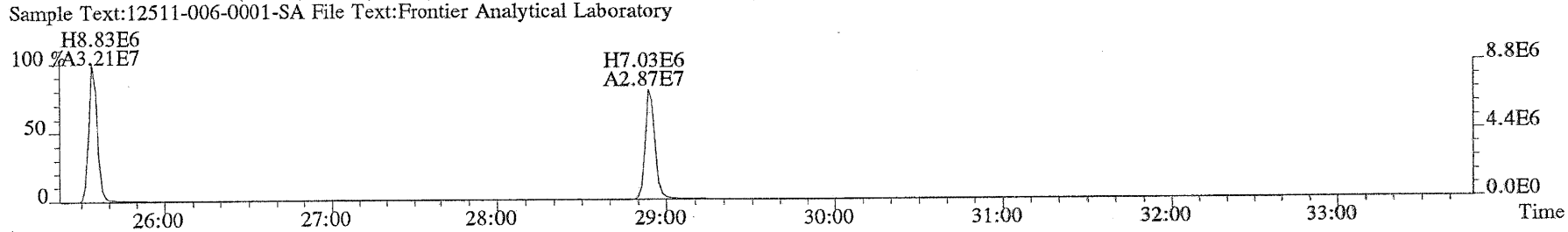
File:02AUG19Z #1-401 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



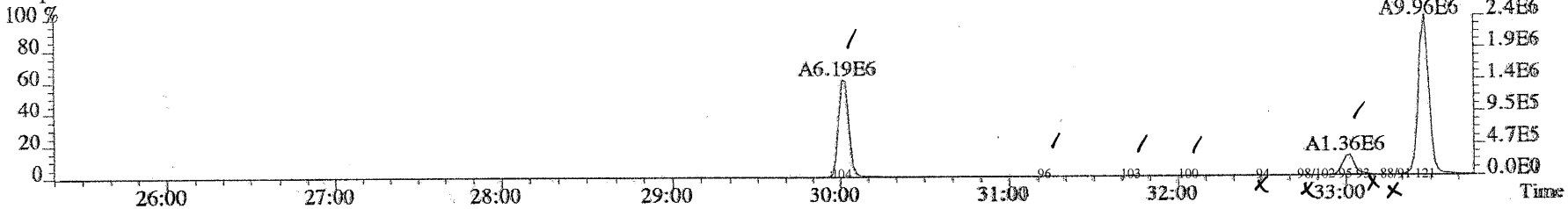
File:02AUG19Z #1-401 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



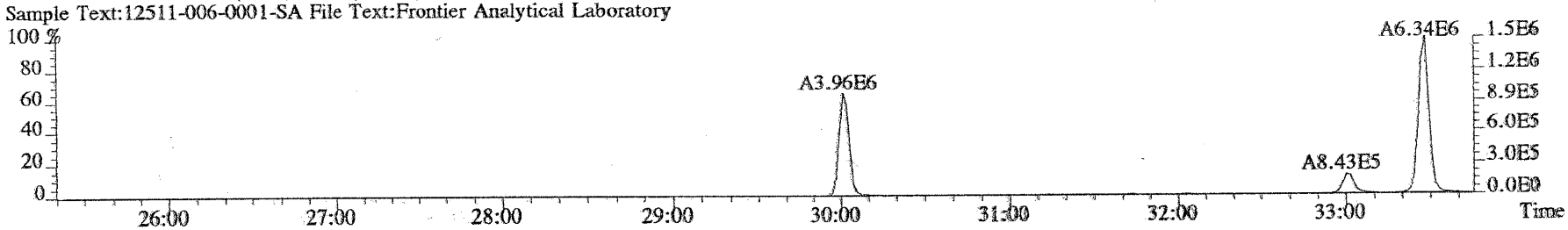
File:02AUG19Z #1-401 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



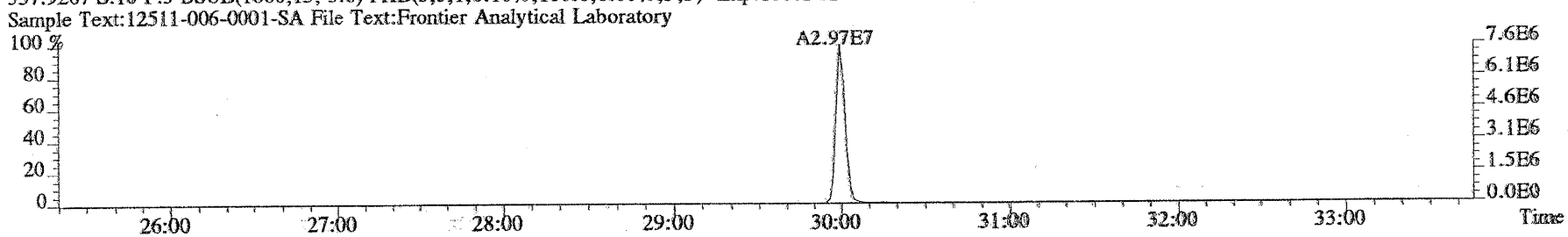
File:02AUG19Z #1-401 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



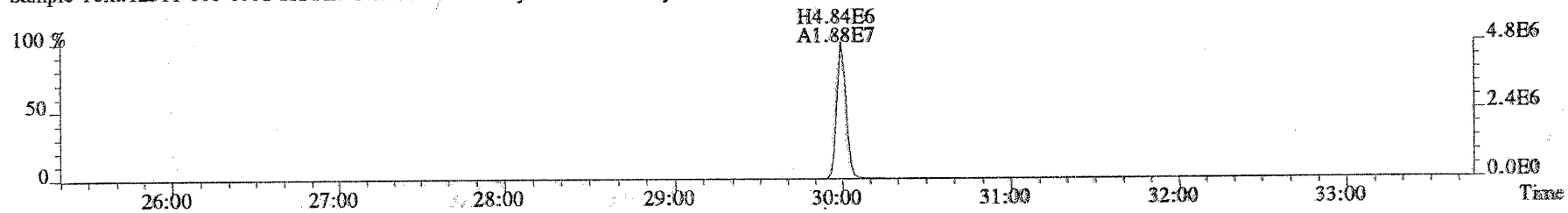
File:02AUG19Z #1-401 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



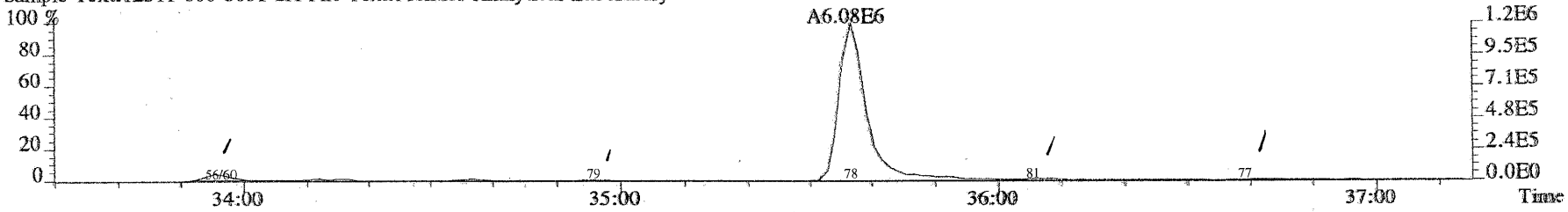
File:02AUG19Z #1-401 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



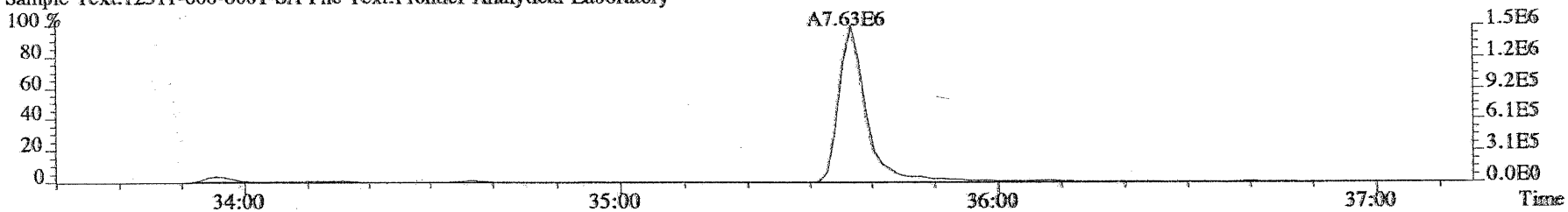
File:02AUG19Z #1-401 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



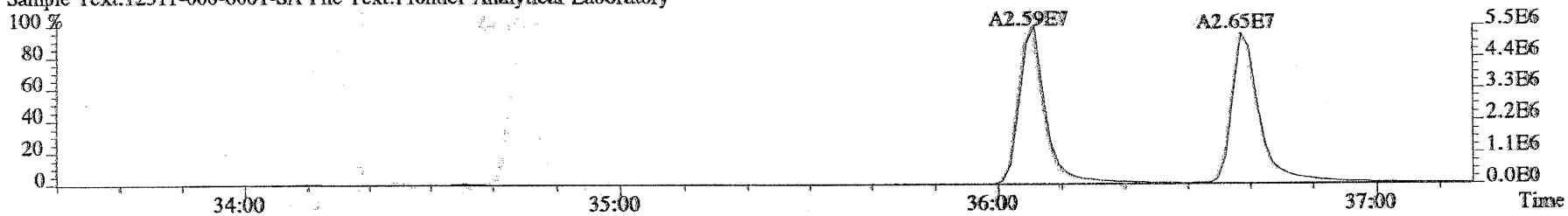
File:02AUG19Z #1-181 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



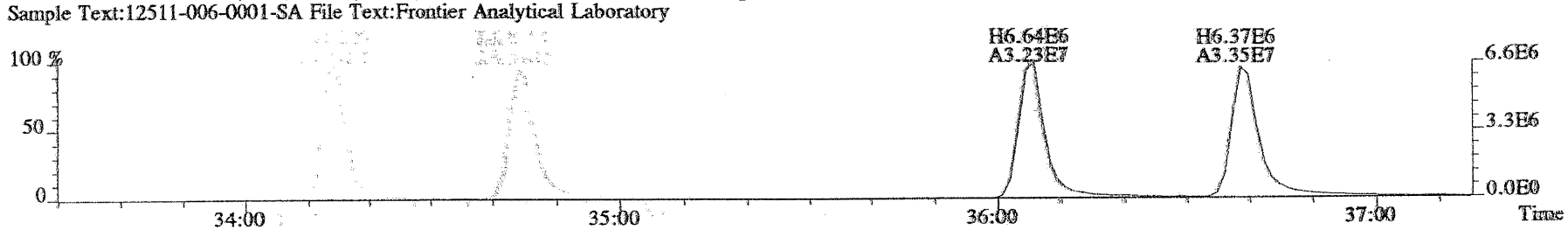
File:02AUG19Z #1-181 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



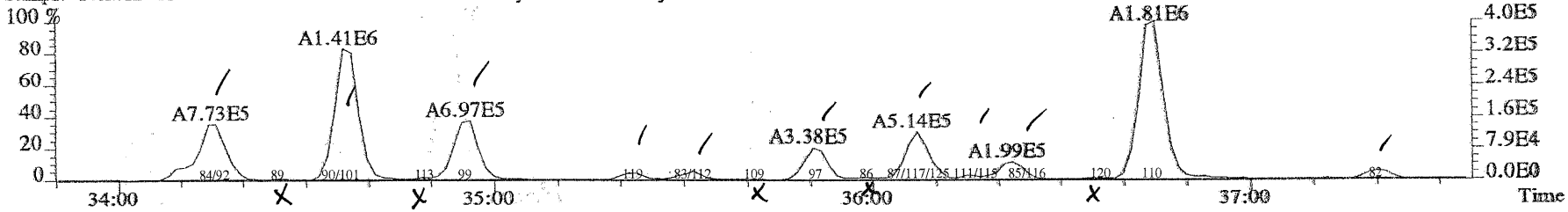
File:02AUG19Z #1-181 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



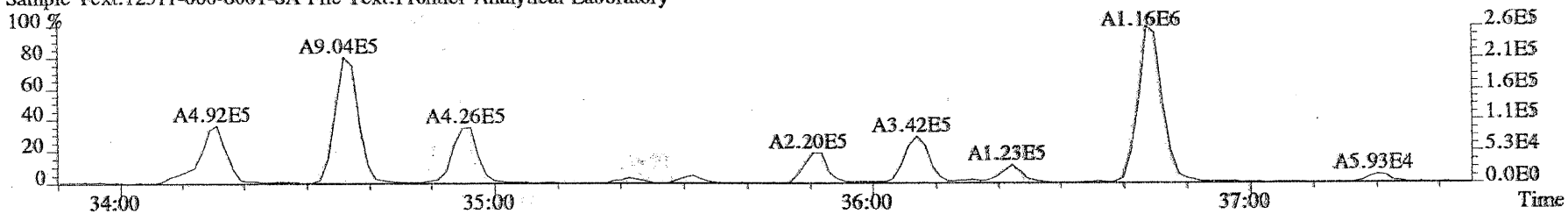
File:02AUG19Z #1-181 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



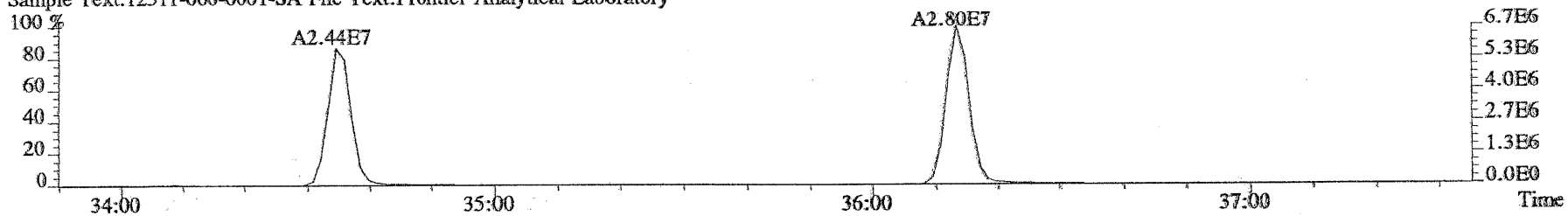
File:02AUG19Z #1-181 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



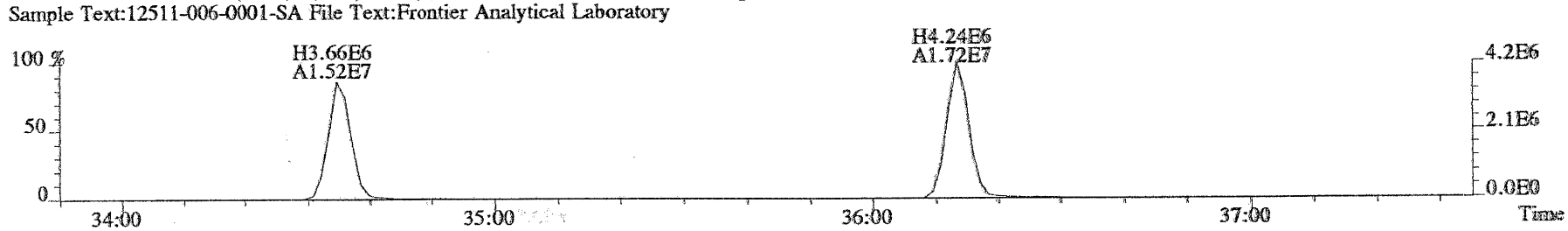
File:02AUG19Z #1-181 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



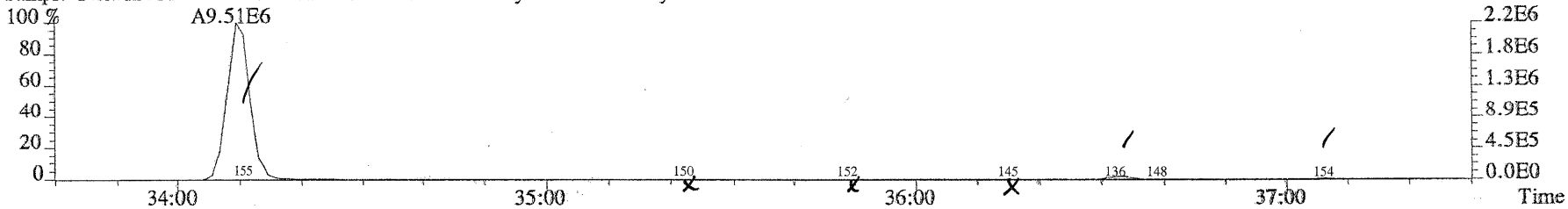
File:02AUG19Z #1-181 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



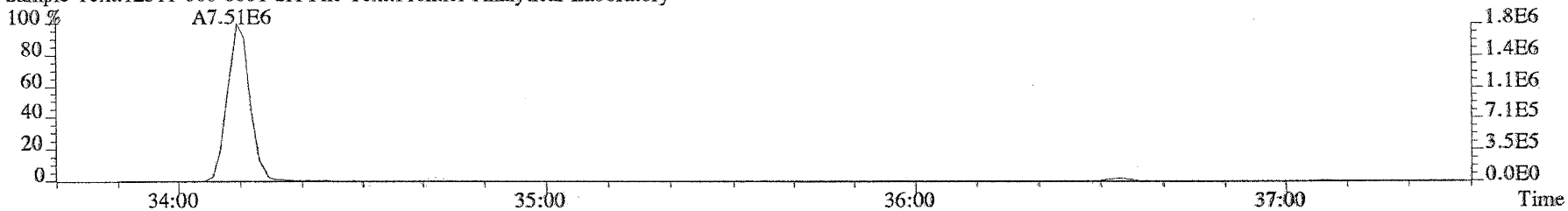
File:02AUG19Z #1-181 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



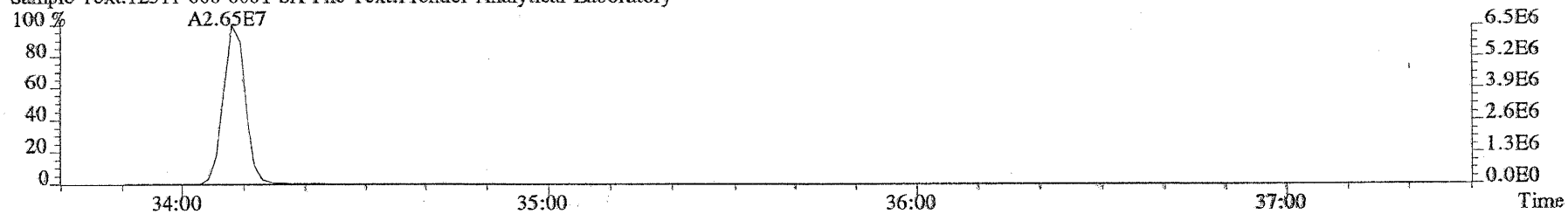
File:02AUG19Z #1-181 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



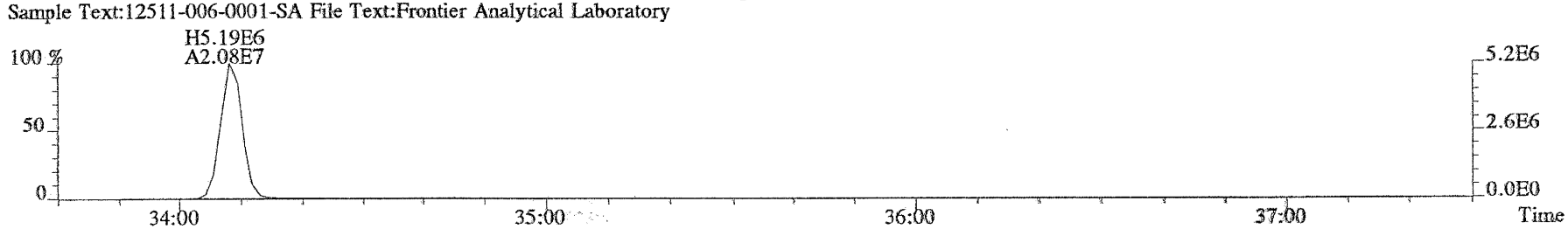
File:02AUG19Z #1-181 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



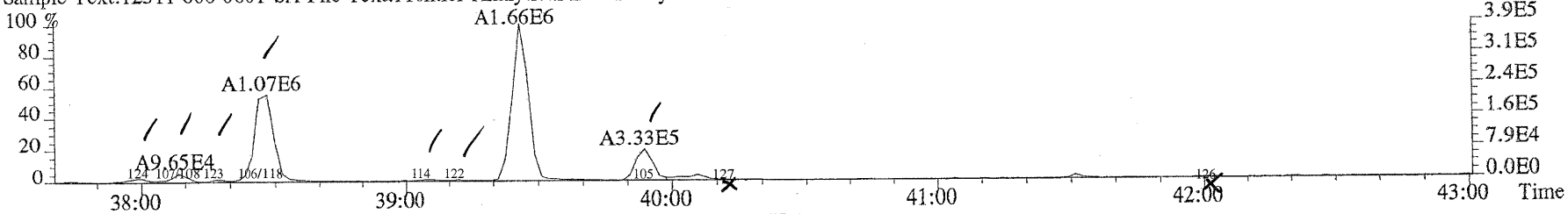
File:02AUG19Z #1-181 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



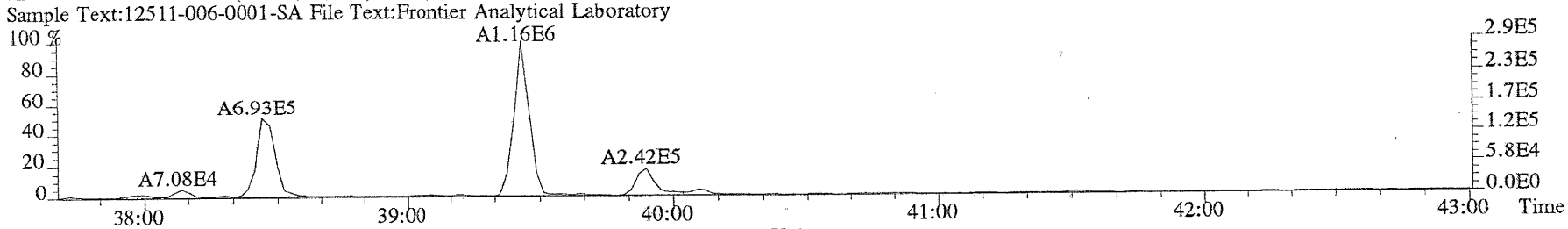
File:02AUG19Z #1-181 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



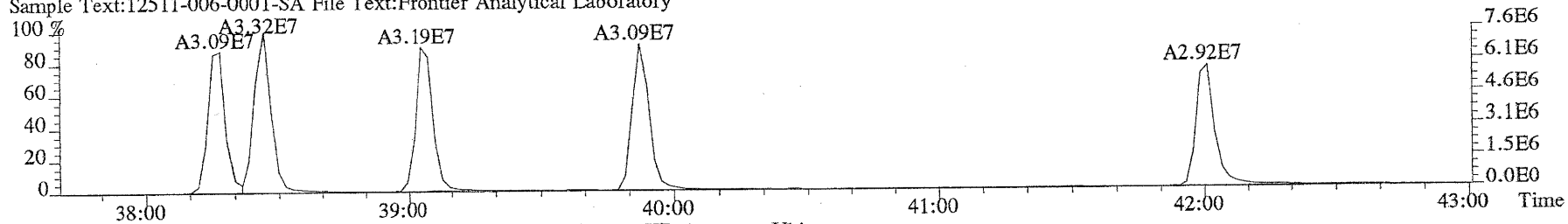
File:02AUG19Z #1-405 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



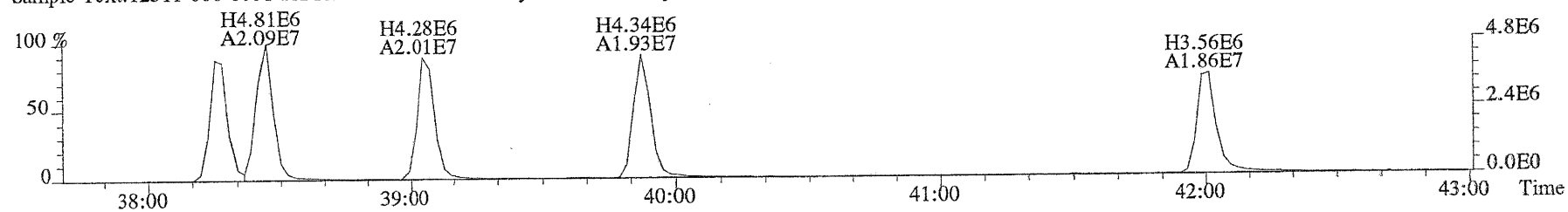
File:02AUG19Z #1-405 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



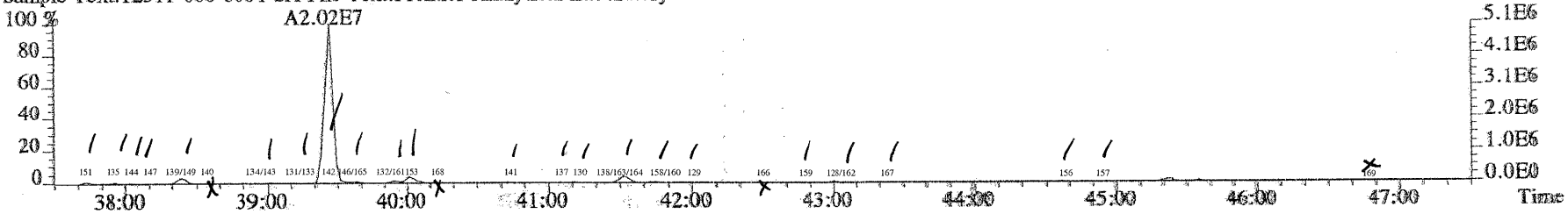
File:02AUG19Z #1-405 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



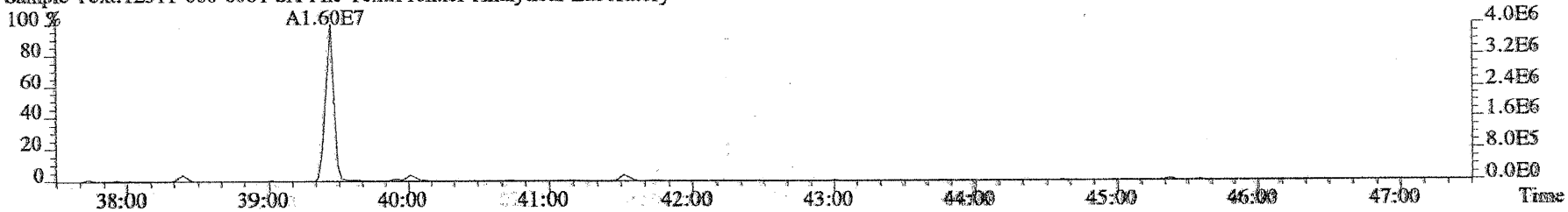
File:02AUG19Z #1-405 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



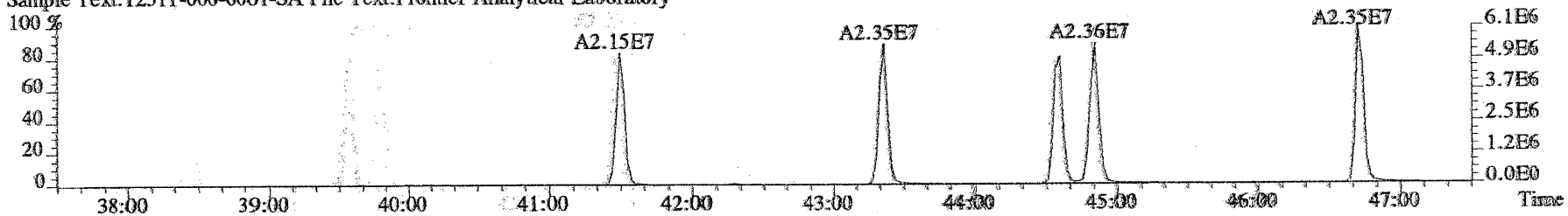
File:02AUG19Z #1-405 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



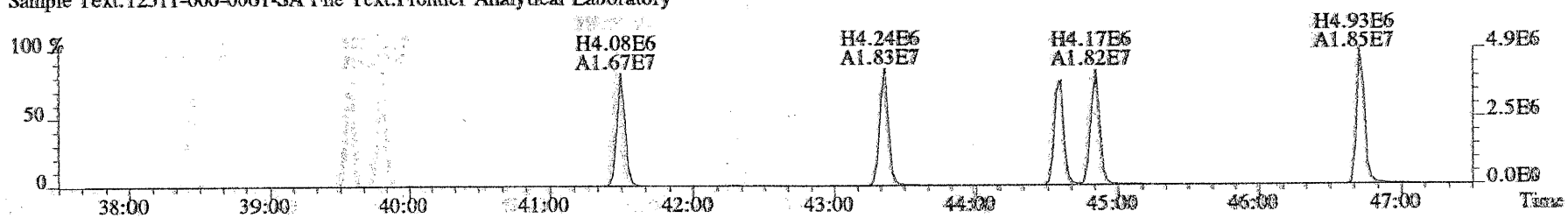
File:02AUG19Z #1-405 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



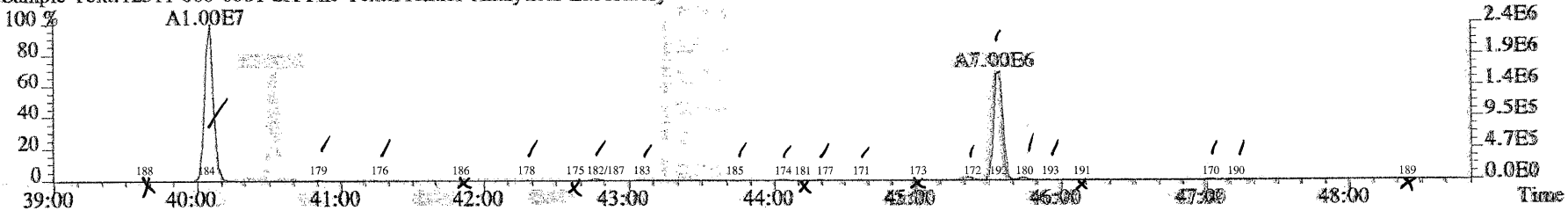
File:02AUG19Z #1-405 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



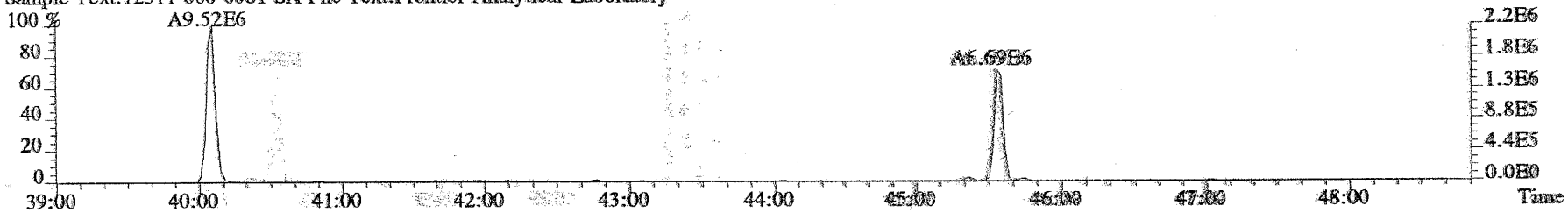
File:02AUG19Z #1-405 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



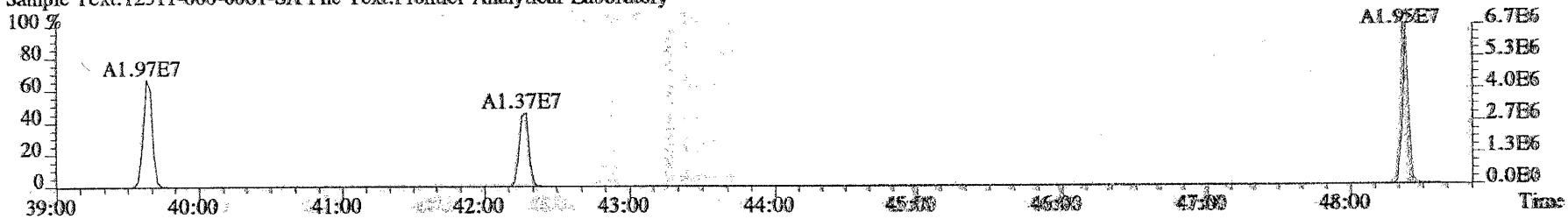
File:02AUG19Z #1-405 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



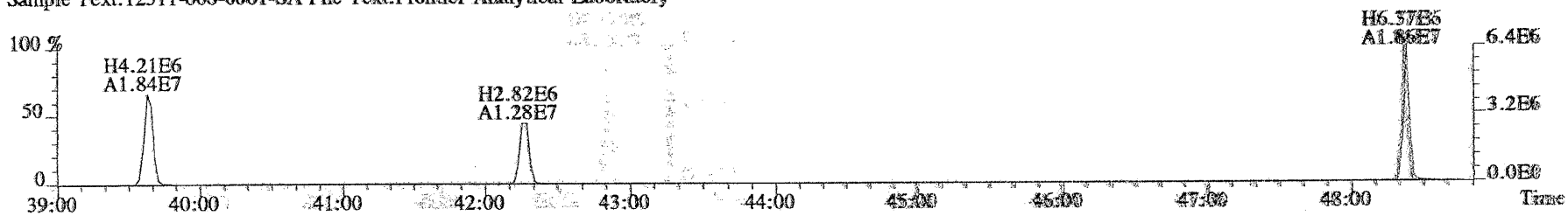
File:02AUG19Z #1-405 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



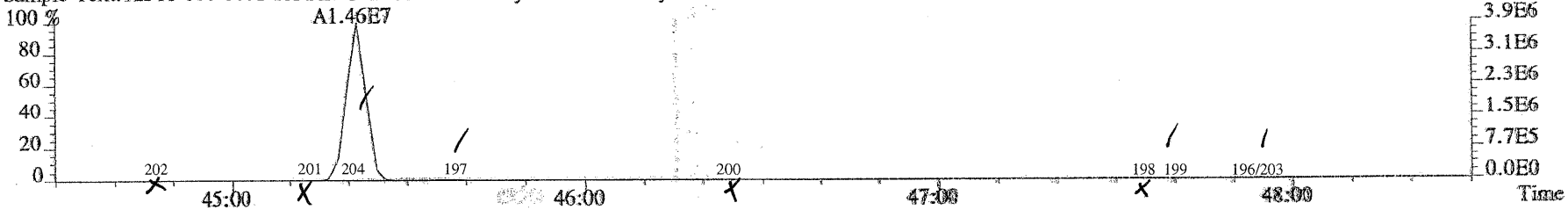
File:02AUG19Z #1-405 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



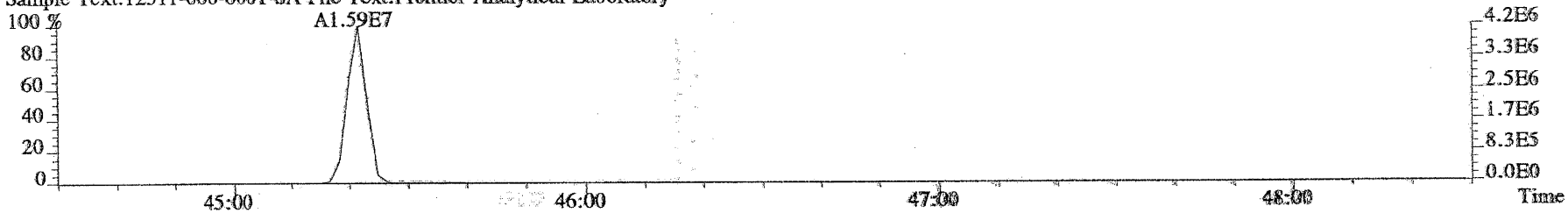
File:02AUG19Z #1-405 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



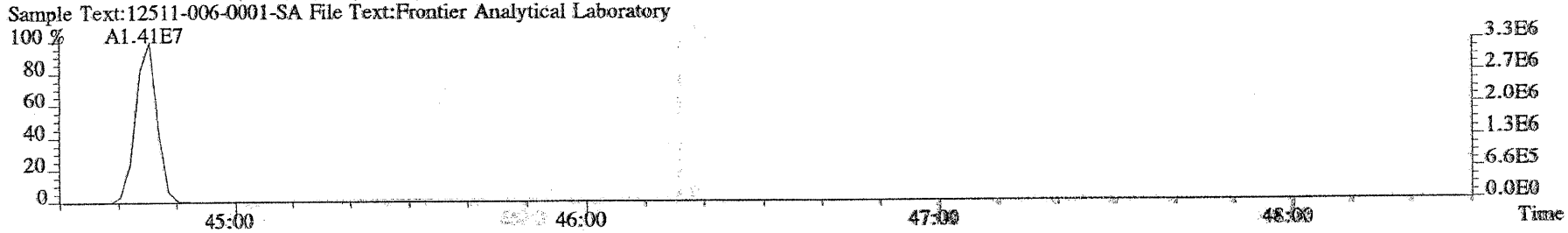
File:02AUG19Z #1-405 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



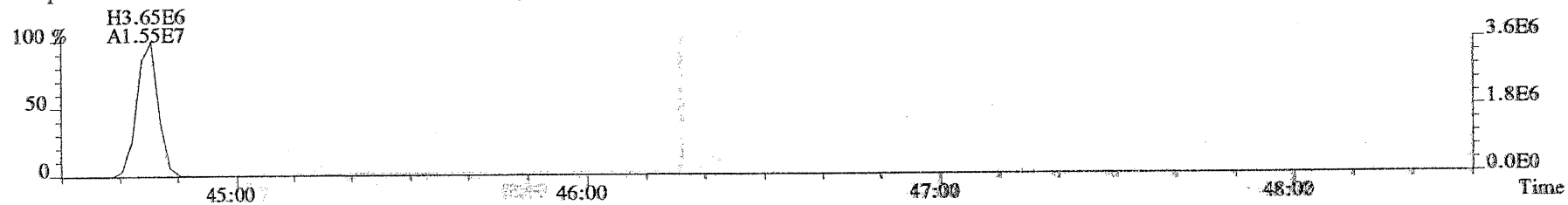
File:02AUG19Z #1-405 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



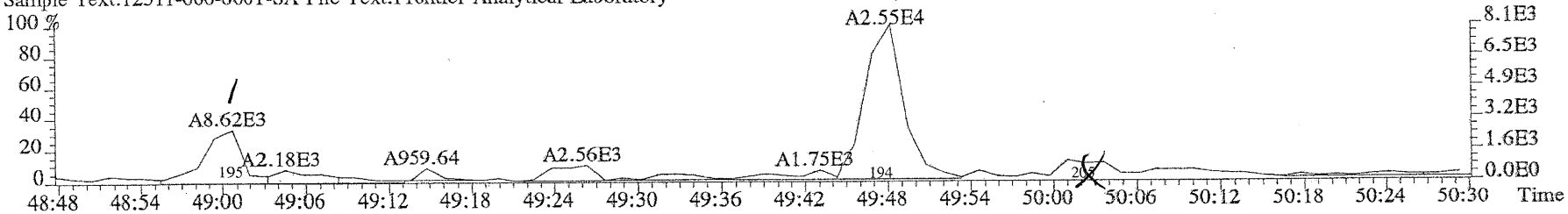
File:02AUG19Z #1-405 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



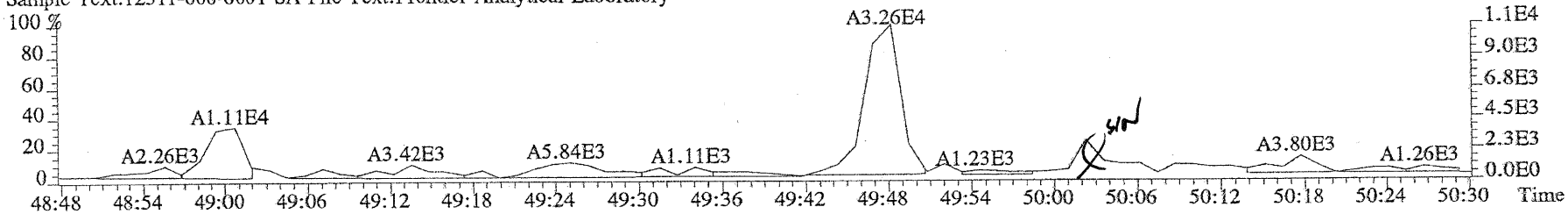
File:02AUG19Z #1-405 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



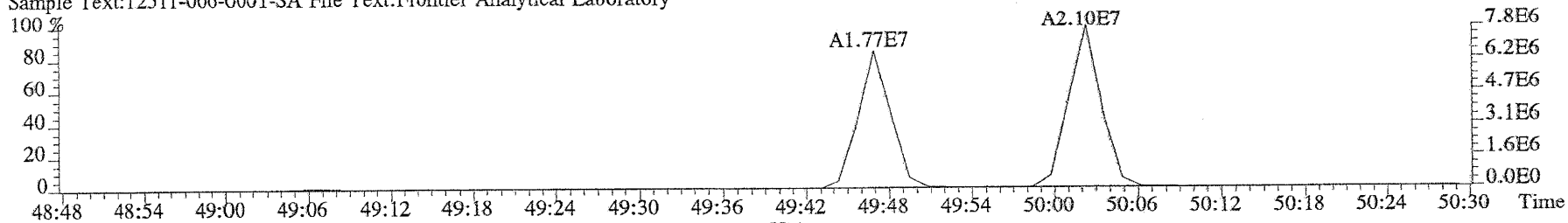
File:02AUG19Z #1-315 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



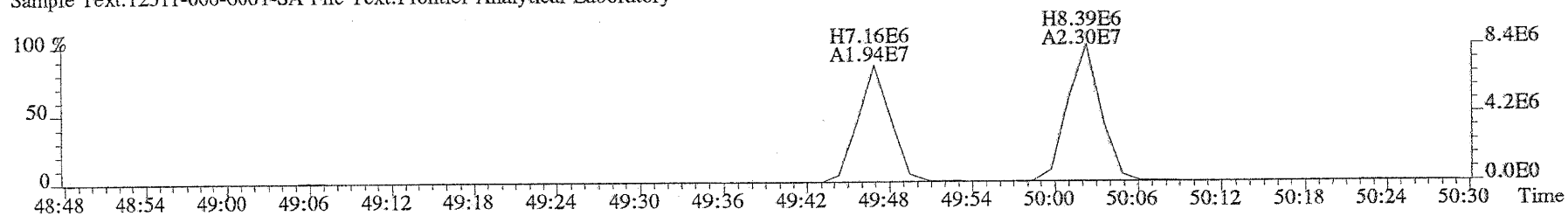
File:02AUG19Z #1-315 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



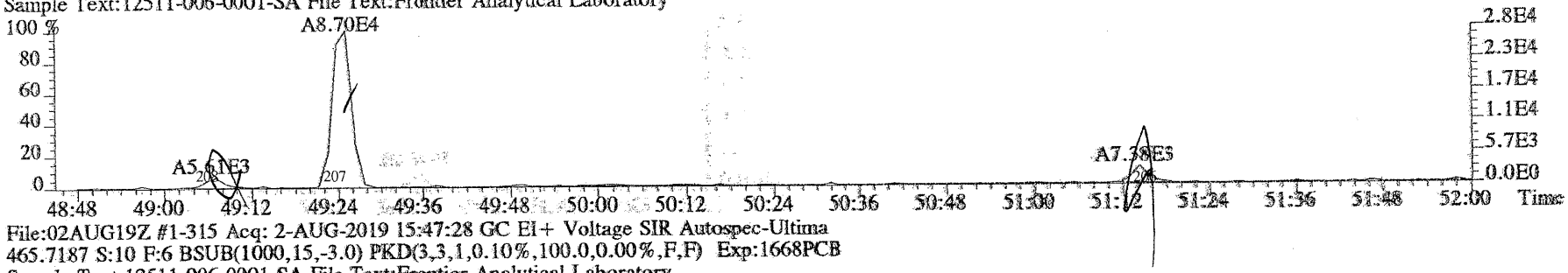
File:02AUG19Z #1-315 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



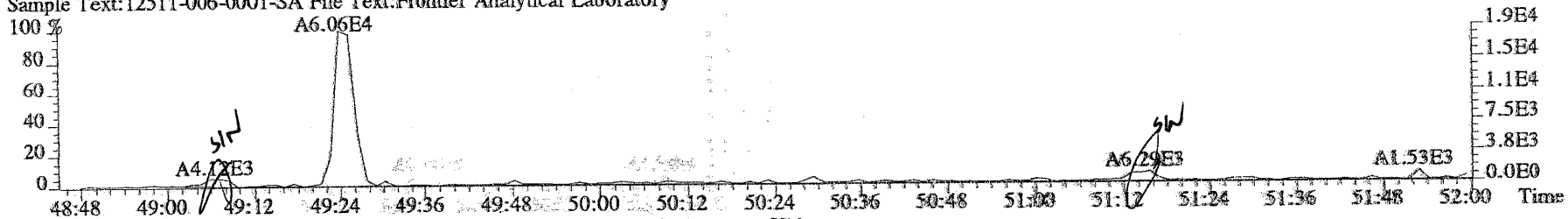
File:02AUG19Z #1-315 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



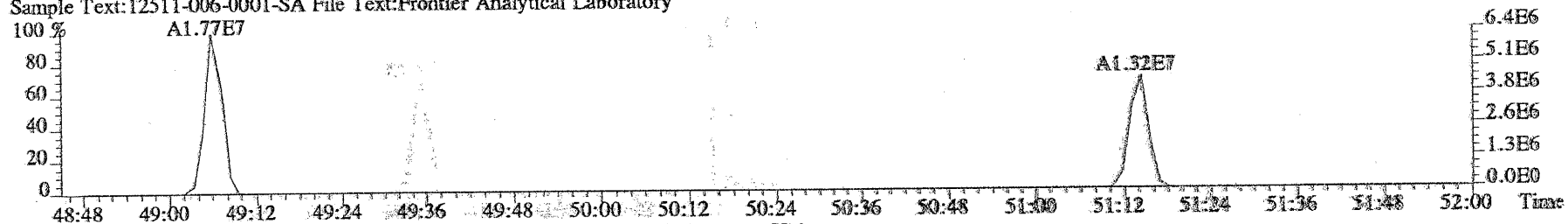
File:02AUG19Z #1-315 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



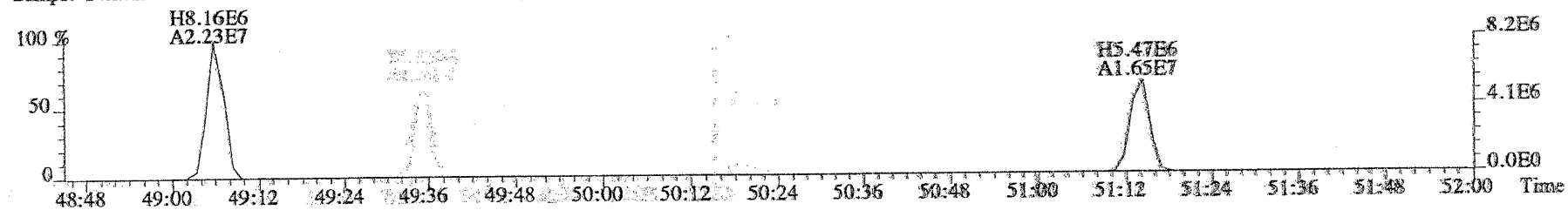
File:02AUG19Z #1-315 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



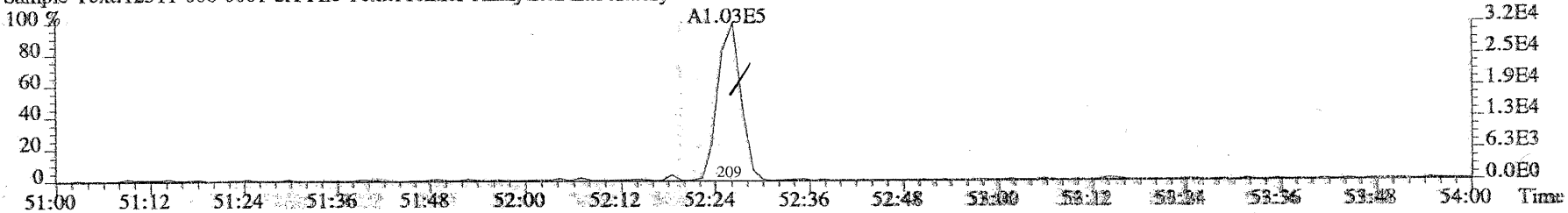
File:02AUG19Z #1-315 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



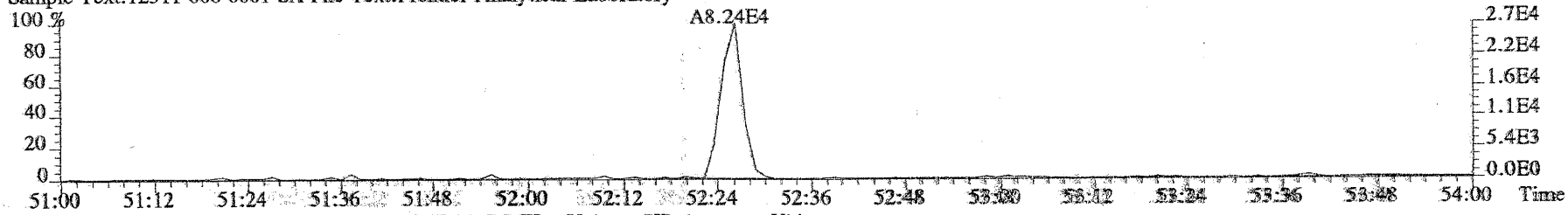
File:02AUG19Z #1-315 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



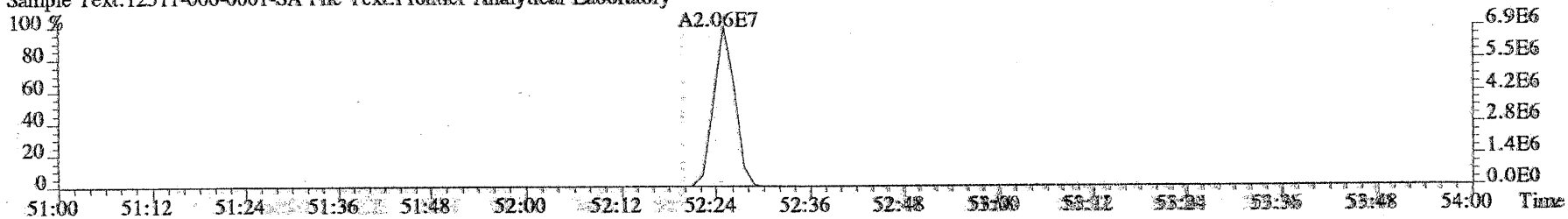
File:02AUG19Z #1-315 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



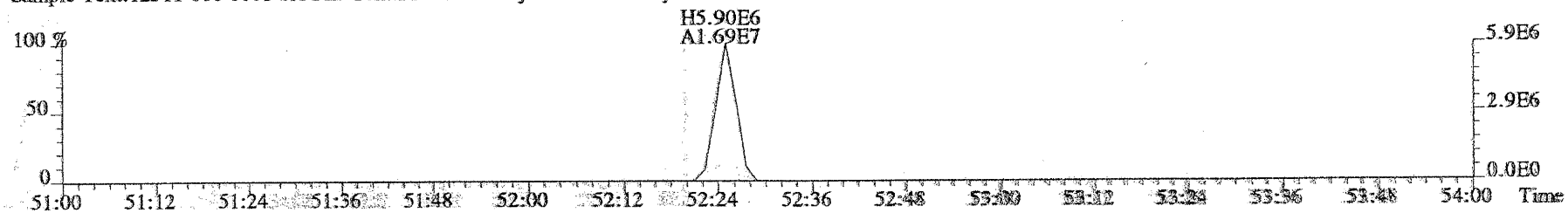
File:02AUG19Z #1-315 Acq: 2-AUG-2019 15:47:28 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-006-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 15:47:28 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:12511-006-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 15:47:28 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:12511-006-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12511-009-0001-SA Filename: 05AUG19Z Sam:3 Acquired: 5-AUG-19 11:31:58 ICal: DAILY209FAL4-8-5-19
Client ID: LDW-Y2-IN-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	*	*	n	NotFnd	1.19	*		1430	1050	2.70	
13C-PCB-1	5.97e+07	3.16	y	14:32	0.92	8230					82.3
PCB-2	*	*	n	NotFnd	1.17	*		1430	1050	3.03	
PCB-3	*	*	n	NotFnd	1.22	*		1430	1050	3.20	
13C-PCB-3	5.79e+07	3.36	y	16:58	0.87	8460					84.6
PCB-4	1.37e+05	1.55	y	18:13	1.25	23.6		-	-	*	
PCB-10	1.37e+05	1.55	y	18:13	1.30	18.7		654	4950	7.83	
13C-PCB-4	4.64e+07	1.54	y	18:12	0.71	8240					82.4
PCB-9	*	*	n	NotFnd	1.37	*		654	4950	7.46	
PCB-7	*	*	n	NotFnd	1.36	*		654	4950	7.47	
PCB-6	1.62e+05	1.73	y	20:32	1.59	18.1		-	-	*	
PCB-8	2.70e+05	1.42	y	20:54	1.33	36.1		-	-	*	
PCB-5	*	*	n	NotFnd	1.34	*		654	4950	7.58	
PCB-14	1.03e+06	1.51	y	21:59	1.30	141		-	-	*	
PCB-11	1.65e+05	1.44	y	23:08	1.18	25.0		-	-	*	
PCB-13	*	*	n	NotFnd	1.24	*		654	4950	8.23	
PCB-12	*	*	n	NotFnd	1.25	*		654	4950	8.17	
PCB-15	1.77e+05	1.33	y	23:46	1.12	24.0		-	-	*	
13C-PCB-15	6.60e+07	1.56	y	23:44	0.95	8750					87.5
PCB-19	8.36e+04	1.15	y	22:06	1.19	20.5		-	-	*	
PCB-30	*	*	n	NotFnd	1.71	*		1930	672	4.01	
PCB-18	5.56e+05	1.06	y	23:39	1.13	144		-	-	*	
PCB-17	2.56e+05	1.15	y	23:49	1.27	58.4		-	-	*	
PCB-27	7.17e+04	1.08	y	24:20	1.58	13.2	J	-	-	*	
PCB-24	4.36e+04	1.18	y	24:21	1.67	7.59	J	-	-	*	
PCB-16	2.03e+05	1.01	y	24:50	1.24	47.8		-	-	*	
PCB-32	1.53e+05	1.16	y	24:51	1.60	27.8		-	-	*	
13C-PCB-19	3.44e+07	1.08	y	22:05	0.50	8670					86.7
13C-PCB-9	7.91e+07	1.60	y	19:53	-	46.7					
PCB-34	*	*	n	NotFnd	1.28	*		1810	1800	6.82	
PCB-23	*	*	n	NotFnd	1.28	*		1810	1800	6.79	
PCB-29	*	*	n	NotFnd	1.29	*		1810	1800	6.75	
PCB-26	4.88e+05	1.11	y	26:08	1.26	68.4		-	-	*	
PCB-25	2.33e+05	1.14	y	26:17	1.26	32.8		-	-	*	
PCB-31	8.54e+05	1.13	y	26:37	1.26	120		-	-	*	
PCB-28	1.17e+06	1.07	y	26:42	1.55	133		-	-	*	
PCB-20	4.31e+05	1.06	y	27:19	1.25	61.2		-	-	*	Co-elute PCB 21/33
PCB-21	4.31e+05	1.06	y	27:19	1.25	61.2		-	-	*	Co-elute PCB 20/33
PCB-33	4.31e+05	1.06	y	27:19	1.25	61.2		-	-	*	Co-elute PCB 20/21
PCB-22	3.10e+05	1.09	y	27:43	1.38	39.9		-	-	*	
PCB-36	2.27e+06	1.04	y	28:19	1.23	328		-	-	*	
PCB-39	*	*	n	NotFnd	1.23	*		1810	1800	7.11	
PCB-38	*	*	n	NotFnd	1.26	*		1810	1800	6.93	
PCB-35	*	*	n	NotFnd	1.11	*		1810	1800	7.86	
PCB-37	1.79e+05	0.92	y	30:23	1.16	27.3		-	-	*	
13C-PCB-37	5.64e+07	1.08	y	30:23	1.52	9040					90.4

PCB-54	*	*	n	NotFnd	1.23	*		1160	1450	4.41	
PCB-50	*	*	n	NotFnd	0.93	*		1160	1450	5.80	
PCB-53	2.64e+05	0.82	y	27:20	0.91	62.8		-	-	*	
PCB-51	6.24e+04	0.86	y	27:40	0.92	14.6	J	-	-	*	
PCB-45	1.62e+05	0.85	y	28:04	0.78	44.9		-	-	*	
PCB-46	7.34e+04	0.85	y	28:33	0.74	21.4		-	-	*	
PCB-52	3.77e+06	0.80	y	28:59	0.89	913		-	-	*	Co-elute PCB 69
PCB-69	3.77e+06	0.80	y	28:59	0.89	913		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.15	*		1160	1450	4.71	
PCB-43	1.49e+06	0.79	y	29:15	0.79	408		-	-	*	Co-elute PCB 49
PCB-49	1.49e+06	0.79	y	29:15	0.79	408		-	-	*	Co-elute PCB 43
PCB-47	4.63e+05	0.86	y	29:28	0.87	114		-	-	*	
PCB-48	2.63e+05	0.66	y	29:34	1.00	56.7		-	-	*	Co-elute PCB 75
PCB-75	2.63e+05	0.66	y	29:34	1.00	56.7		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*		1160	1450	5.38	
PCB-62	*	*	n	NotFnd	1.07	*		1160	1450	5.05	
PCB-44	1.34e+06	0.80	y	30:12	0.68	423		-	-	*	
PCB-42	4.20e+05	0.84	y	30:26	0.90	100		-	-	*	Co-elute PCB 59
PCB-59	4.20e+05	0.84	y	30:26	0.90	100		-	-	*	Co-elute PCB 42
PCB-72	1.15e+06	0.79	y	31:00	0.99	252		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.15e+06	0.79	y	31:00	0.99	252		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.15e+06	0.79	y	31:00	0.99	252		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.15e+06	0.79	y	31:00	0.99	252		-	-	*	Co-elute PCB 72/41/71
PCB-68	6.77e+04	0.70	y	31:14	1.12	13.0	J	-	-	*	
PCB-40	1.47e+05	0.74	y	31:25	0.63	50.2		-	-	*	
PCB-57	*	*	n	NotFnd	1.03	*		1160	1450	5.28	
PCB-67	5.82e+04	0.81	y	32:03	0.95	13.2	J	-	-	*	
PCB-58	*	*	n	NotFnd	1.11	*		1160	1450	4.88	
PCB-63	6.36e+04	0.69	y	32:21	1.02	13.5	J	-	-	*	
PCB-74	5.84e+05	0.77	y	32:36	0.99	127		-	-	*	
PCB-61	1.37e+06	0.78	y	32:47	0.95	310		-	-	*	Co-elute PCB 70
PCB-70	1.37e+06	0.78	y	32:47	0.95	310		-	-	*	Co-elute PCB 61
PCB-76	1.27e+06	0.75	y	33:00	1.06	258		-	-	*	Co-elute PCB 66
PCB-66	1.27e+06	0.75	y	33:00	1.06	258		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.20	*		1160	1450	4.50	
PCB-55	2.06e+05	0.80	y	33:30	1.04	42.6		-	-	*	
13C-PCB-54	4.63e+07	0.81	y	25:36	1.36	8290					82.9
PCB-104	5.93e+06	1.49	y	30:04	1.10	1440		-	-	*	
PCB-96	3.75e+04	1.55	y	31:15	1.03	9.71	J	-	-	*	
PCB-103	4.43e+04	1.43	y	31:45	0.81	14.5	J	-	-	*	
PCB-100	3.43e+04	1.55	y	32:06	0.81	11.2	J	-	-	*	
PCB-94	2.04e+04	1.52	y	32:33	0.67	8.14	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.68	*		576	412	3.82	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.68	*		576	412	3.82	Co-elute PCB 98
PCB-95	2.79e+06	1.54	y	33:04	0.78	957		-	-	*	
PCB-93	*	*	n	NotFnd	0.73	*		576	412	3.54	
PCB-88	*	*	n	NotFnd	0.76	*		576	412	3.42	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.76	*		576	412	3.42	Co-elute PCB 88
PCB-121	1.02e+07	1.56	y	33:30	0.94	2900		-	-	*	
13C-PCB-104	3.75e+07	1.59	y	30:02	1.05	8720					87.2
13C-PCB-28	6.83e+07	1.06	y	26:41	1.82	9140					91.4
13C-PCB-52	4.11e+07	0.80	y	28:57	-	50.6					

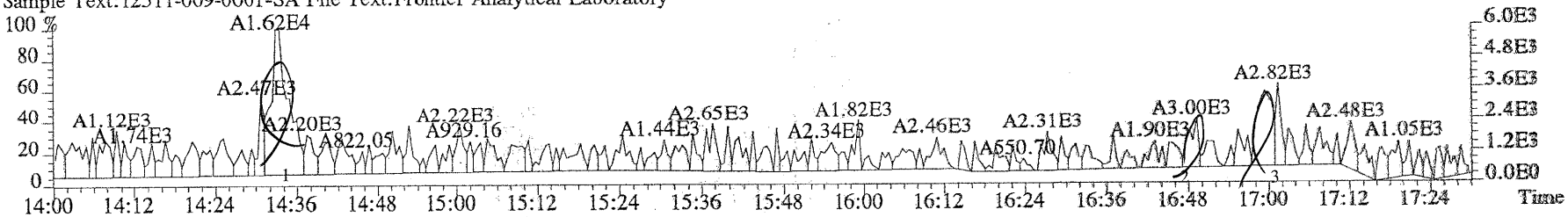
PCB-56	4.81e+05	0.79	y	33:59	1.14	101		-	-	*	Co-elute PCB 60
PCB-60	4.81e+05	0.79	y	33:59	1.14	101		-	-	*	Co-elute PCB 56
PCB-79	4.88e+04	0.78	y	34:59	1.22	9.56	J	-	-	*	
PCB-78	6.40e+06	0.77	y	35:39	1.17	1320		-	-	*	
PCB-81	1.68e+05	0.86	y	36:09	1.29	31.6		-	-	*	
13C-PCB-81	4.12e+07	0.79	y	36:08	1.32	8680					86.8
PCB-77	8.58e+04	0.83	y	36:44	1.11	18.3	J	-	-	*	
13C-PCB-77	4.22e+07	0.78	y	36:41	1.39	8470					84.7
PCB-155	1.14e+07	1.23	y	34:12	1.03	2600		-	-	*	
PCB-150	*	*	n	NotFnd	0.96	*		728	632	3.34	
PCB-152	*	*	n	NotFnd	0.95	*		728	632	3.40	
PCB-145	*	*	n	NotFnd	0.90	*		728	632	3.60	
PCB-136	3.89e+05	1.23	y	36:36	0.97	94.1		-	-	*	
PCB-148	*	*	n	NotFnd	0.60	*		728	632	5.41	
PCB-154	6.33e+04	1.08	y	37:09	0.78	19.0	J	-	-	*	
13C-PCB-155	4.24e+07	1.27	y	34:11	1.43	8260					82.6
13C-PCB-111	3.43e+07	1.62	y	36:16	1.12	8540					85.4
13C-PCB-101	3.59e+07	1.57	y	34:37	-	57.5					
PCB-84	1.59e+06	1.51	y	34:18	0.86	473		-	-	*	Co-elute PCB 92
PCB-92	1.59e+06	1.51	y	34:18	0.86	473		-	-	*	Co-elute PCB 84
PCB-89	4.25e+04	1.55	y	34:27	0.88	12.2	J	-	-	*	
PCB-90	3.12e+06	1.62	y	34:40	0.89	891		-	-	*	Co-elute PCB 101
PCB-101	3.12e+06	1.62	y	34:40	0.89	891		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.06	*		1060	1030	5.38	
PCB-99	1.37e+06	1.60	y	34:57	0.97	359		-	-	*	
PCB-119	1.02e+05	1.40	y	35:24	1.07	24.3		-	-	*	
PCB-83	1.51e+05	1.63	y	35:34	0.87	43.8		-	-	*	Co-elute PCB 112
PCB-112	1.51e+05	1.63	y	35:34	0.87	43.8		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.01	*		1060	1030	5.62	
PCB-97	6.60e+05	1.55	y	35:53	0.68	247		-	-	*	
PCB-86	*	*	n	NotFnd	0.77	*		1060	1030	7.36	
PCB-125	1.09e+06	1.52	y	36:09	0.90	308		-	-	*	Co-elute PCB 87/117
PCB-87	1.09e+06	1.52	y	36:09	0.90	308		-	-	*	Co-elute PCB 125/117
PCB-117	1.09e+06	1.52	y	36:09	0.90	308		-	-	*	Co-elute PCB 125/87
PCB-111	5.94e+04	1.36	y	36:18	1.04	14.6	J	-	-	*	Co-elute PCB 115
PCB-115	5.94e+04	1.36	y	36:18	1.04	14.6	J	-	-	*	Co-elute PCB 111
PCB-85	3.62e+05	1.77	y	36:25	0.85	108		-	-	*	Co-elute PCB 116
PCB-116	3.62e+05	1.77	y	36:25	0.85	108		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.04	*		1060	1030	5.49	
PCB-110	3.24e+06	1.65	y	36:47	0.99	833		-	-	*	
PCB-82	1.79e+05	1.64	y	37:23	0.57	80.0		-	-	*	
PCB-124	1.05e+05	1.54	y	38:02	1.12	23.7		-	-	*	
PCB-108	1.82e+05	1.37	y	38:12	1.10	41.8		-	-	*	Co-elute PCB 107
PCB-107	1.82e+05	1.37	y	38:12	1.10	41.8		-	-	*	Co-elute PCB 108
PCB-123	4.99e+04	1.46	y	38:20	1.03	12.8	J	-	-	*	
13C-PCB-123	3.79e+07	1.60	y	38:18	1.30	9720					97.2
PCB-118	1.92e+06	1.59	y	38:30	1.06	433		-	-	*	Co-elute PCB 106
PCB-106	1.92e+06	1.59	y	38:30	1.06	433		-	-	*	Co-elute PCB 118
13C-PCB-118	4.18e+07	1.58	y	38:28	1.44	9720					97.2
PCB-114	6.80e+04	1.41	y	39:08	1.19	14.5	J	-	-	*	
13C-PCB-114	3.96e+07	1.60	y	39:06	1.33	9920					99.2
PCB-122	*	*	n	NotFnd	1.06	*		772	690	3.74	
PCB-105	6.27e+05	1.52	y	39:57	1.11	148		-	-	*	
13C-PCB-105	3.80e+07	1.59	y	39:55	1.36	9290					92.9

PCB-127	*	*	n	NotFnd	1.03	*		772	690	3.86	
PCB-126	2.33e+04	1.46	y	42:02	1.08	6.08	J	-	-	*	
13C-PCB-126	3.54e+07	1.61	y	42:02	1.24	9490					94.9
PCB-151	3.44e+05	1.29	y	37:45	0.84	137		-	-	*	
PCB-135	7.98e+04	1.26	y	38:05	0.91	29.3		-	-	*	
PCB-144	7.98e+04	1.26	y	38:05	0.96	27.9		-	-	*	
PCB-147	4.45e+04	1.12	y	38:12	1.00	14.9	J	-	-	*	
PCB-139	1.32e+06	1.25	y	38:27	1.08	409		-	-	*	Co-elute PCB 149
PCB-149	1.32e+06	1.25	y	38:27	1.08	409		-	-	*	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	1.01	*		856	732	5.79	
PCB-143	1.08e+05	1.22	y	39:03	0.84	42.8		-	-	*	Co-elute PCB 134
PCB-134	1.08e+05	1.22	y	39:03	0.84	42.8		-	-	*	Co-elute PCB 143
PCB-131	5.23e+04	1.29	y	39:19	0.86	20.4		-	-	*	Co-elute PCB 133
PCB-133	5.23e+04	1.29	y	39:19	0.86	20.4		-	-	*	Co-elute PCB 131
PCB-142	2.01e+07	1.26	y	39:28	0.83	8100		-	-	*	
PCB-165	3.12e+05	1.17	y	39:41	1.14	91.5		-	-	*	Co-elute PCB 146
PCB-146	3.12e+05	1.17	y	39:41	1.14	91.5		-	-	*	Co-elute PCB 165
PCB-161	4.41e+05	1.23	y	39:57	1.06	139		-	-	*	Co-elute PCB 132
PCB-132	4.41e+05	1.23	y	39:57	1.06	139		-	-	*	Co-elute PCB 161
PCB-153	1.54e+06	1.31	y	40:04	1.15	447		-	-	*	
PCB-168	*	*	n	NotFnd	1.23	*		856	732	4.74	
PCB-141	2.31e+05	1.33	y	40:45	0.90	85.8		-	-	*	
PCB-137	8.13e+04	1.11	y	41:08	0.84	32.3		-	-	*	
PCB-130	9.92e+04	1.23	y	41:13	0.89	37.4		-	-	*	
PCB-138	1.50e+06	1.30	y	41:34	1.15	434		-	-	*	Co-elute PCB 163/164
PCB-163	1.50e+06	1.30	y	41:34	1.15	434		-	-	*	Co-elute PCB 138/164
PCB-164	1.50e+06	1.30	y	41:34	1.15	434		-	-	*	Co-elute PCB 138/163
PCB-158	1.88e+05	1.32	y	41:47	1.23	51.1		-	-	*	Co-elute PCB 160
PCB-160	1.88e+05	1.32	y	41:47	1.23	51.1		-	-	*	Co-elute PCB 158
PCB-129	7.35e+04	1.11	y	42:02	0.81	30.5		-	-	*	
PCB-166	*	*	n	NotFnd	1.18	*		856	732	4.95	
PCB-159	*	*	n	NotFnd	1.28	*		856	732	4.56	
PCB-128	2.22e+05	1.23	y	43:03	1.04	71.3		-	-	*	Co-elute PCB 162
PCB-162	2.22e+05	1.23	y	43:03	1.04	71.3		-	-	*	Co-elute PCB 128
PCB-167	6.45e+04	1.41	y	43:25	1.13	18.5	J	-	-	*	
13C-PCB-167	3.10e+07	1.29	y	43:23	1.10	9400					94.0
PCB-156	1.25e+05	1.35	y	44:39	1.20	35.9		-	-	*	
13C-PCB-156	2.89e+07	1.30	y	44:37	1.05	9150					91.5
PCB-157	4.29e+04	1.13	y	44:53	1.12	12.5	J	-	-	*	
13C-PCB-157	3.07e+07	1.27	y	44:52	1.13	9040					90.4
PCB-169	*	*	n	NotFnd	1.07	*		856	732	5.49	
13C-PCB-169	2.91e+07	1.30	y	46:44	1.06	9130					91.3

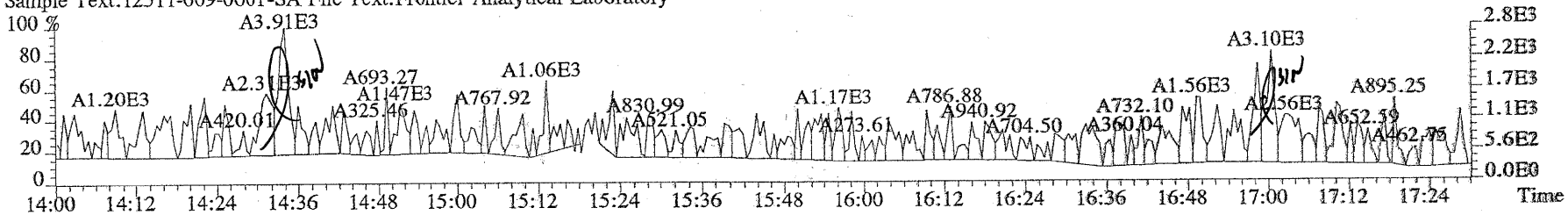
PCB-188	*	*	n	NotFnd	1.08	*		664	380	3.00	
13C-PCB-188	3.02e+07	1.06	y	39:41	1.13	8890					88.9
PCB-184	1.16e+07	1.05	y	40:07	1.19	3480		-	-	*	
PCB-179	1.13e+05	1.15	y	40:51	1.08	37.3		-	-	*	
PCB-176	3.89e+04	0.99	y	41:18	1.07	13.0	J	-	-	*	
PCB-186	*	*	n	NotFnd	1.10	*		664	380	2.89	
PCB-178	4.23e+04	1.09	y	42:20	0.75	20.2		-	-	*	
PCB-175	*	*	n	NotFnd	0.74	*		664	380	4.28	
PCB-187	1.95e+05	1.16	y	42:48	0.85	81.4		-	-	*	Co-elute PCB 182
PCB-182	1.95e+05	1.16	y	42:48	0.85	81.4		-	-	*	Co-elute PCB 187
PCB-183	9.95e+04	1.16	y	43:08	0.82	43.2		-	-	*	
PCB-185	*	*	n	NotFnd	0.75	*		664	380	4.24	
PCB-174	1.40e+05	1.05	y	44:06	0.78	64.4		-	-	*	
PCB-181	*	*	n	NotFnd	0.74	*		664	380	4.29	
PCB-177	8.22e+04	1.13	y	44:20	0.68	42.8		-	-	*	
PCB-171	4.87e+04	1.12	y	44:39	0.76	22.9		-	-	*	
PCB-173	*	*	n	NotFnd	0.67	*		664	380	4.77	
PCB-172	1.93e+05	1.12	y	45:25	0.70	98.5		-	-	*	
PCB-192	7.06e+06	1.04	y	45:36	0.92	2730		-	-	*	
PCB-180	2.52e+05	1.12	y	45:46	0.70	128		-	-	*	
PCB-193	3.05e+04	1.02	y	45:58	0.99	11.0	J	-	-	*	
PCB-191	*	*	n	NotFnd	0.96	*		664	380	3.31	
PCB-170	1.00e+05	1.12	y	47:03	0.69	52.0		-	-	*	
PCB-190	3.67e+04	1.12	y	47:13	0.95	13.8	J	-	-	*	
PCB-189	*	*	n	NotFnd	1.05	*		664	380	3.00	
13C-PCB-189	2.58e+07	1.05	y	48:24	0.96	8930					89.3
PCB-202	*	*	n	NotFnd	1.02	*		352	468	3.67	
PCB-201	*	*	n	NotFnd	1.06	*		352	468	3.55	
PCB-204	1.53e+07	0.93	y	45:23	1.05	6610		-	-	*	
PCB-197	7.77e+04	0.97	y	45:40	1.06	33.1		-	-	*	
PCB-200	*	*	n	NotFnd	1.09	*		352	468	3.44	
PCB-198	*	*	n	NotFnd	0.78	*		352	468	4.81	
PCB-199	3.46e+04	0.89	y	47:41	0.75	21.0		-	-	*	
PCB-203	3.96e+04	0.78	y	47:56	0.86	20.8		-	-	*	Co-elute PCB 196
PCB-196	3.96e+04	0.78	y	47:56	0.86	20.8		-	-	*	Co-elute PCB 203
13C-PCB-202	2.21e+07	0.90	y	44:47	0.87	8430					84.3
13C-PCB-178	1.94e+07	1.08	y	42:19	0.71	9040					90.4
13C-PCB-138	3.00e+07	1.28	y	41:33	-	52.1					
PCB-195	1.84e+04	0.88	y	49:02	0.74	8.04	J	-	-	*	
PCB-194	4.46e+04	0.96	y	49:48	0.85	17.1	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.07	*		920	948	3.82	
13C-PCB-205	3.09e+07	0.90	y	50:04	1.28	9040					90.4
PCB-208	*	*	n	NotFnd	1.06	*		996	990	5.32	
13C-PCB-208	2.81e+07	0.83	y	49:08	1.22	8630					86.3
PCB-207	8.25e+04	1.20	y	49:26	1.16	28.8		-	-	*	
PCB-206	*	*	n	NotFnd	1.06	*		996	990	6.49	
13C-PCB-206	2.12e+07	0.82	y	51:15	0.91	8690					86.9
PCB-209	1.04e+05	1.26	y	52:27	1.12	34.8		-	-	*	
13C-PCB-209	2.65e+07	1.19	y	52:27	1.14	8710					87.1
13C-PCB-194	2.67e+07	0.89	y	49:48	-	50.6					

Analyst: _____ Date: 8/6/19

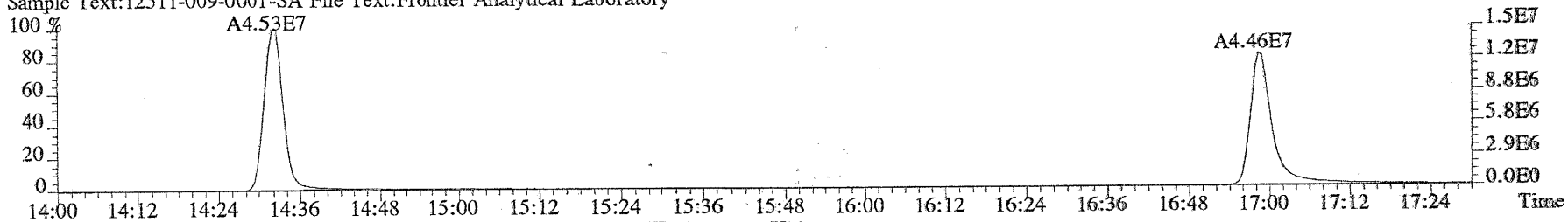
File:05AUG19Z #1-783 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



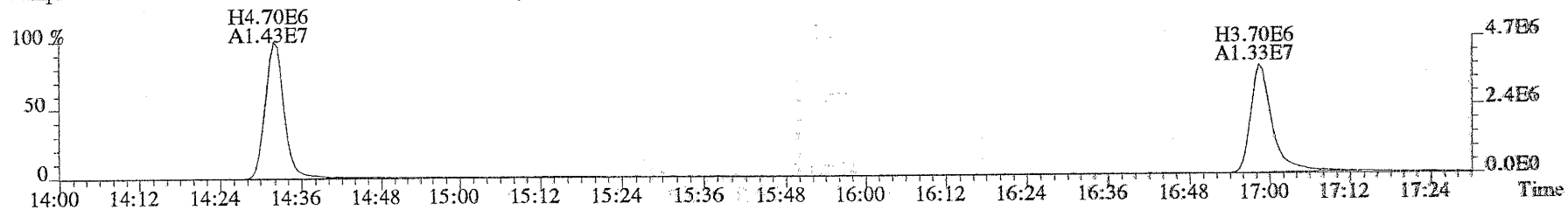
File:05AUG19Z #1-783 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



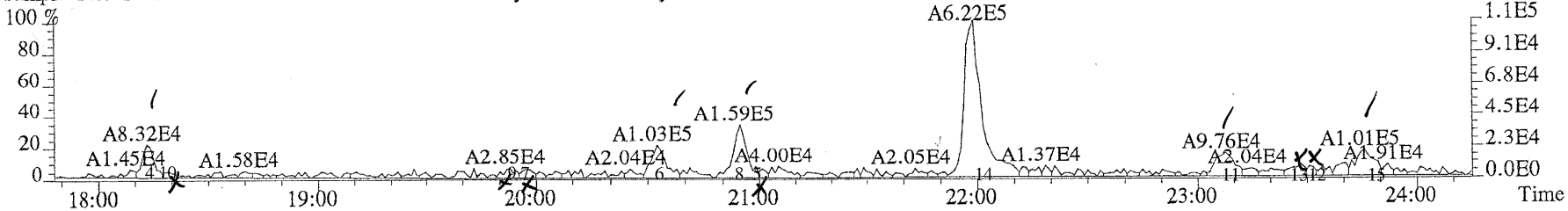
File:05AUG19Z #1-783 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



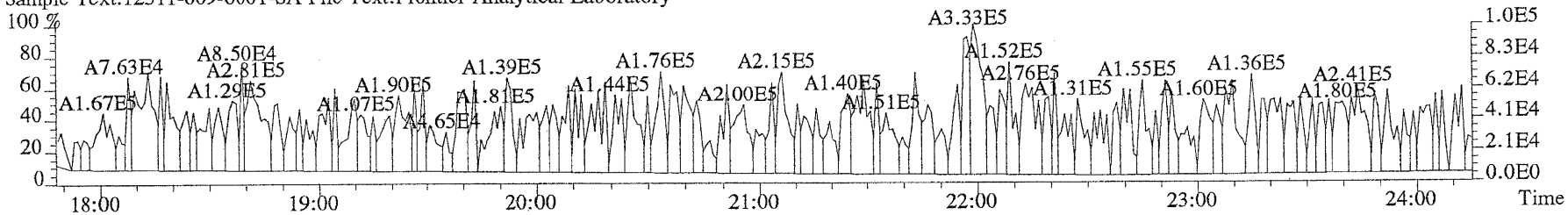
File:05AUG19Z #1-783 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



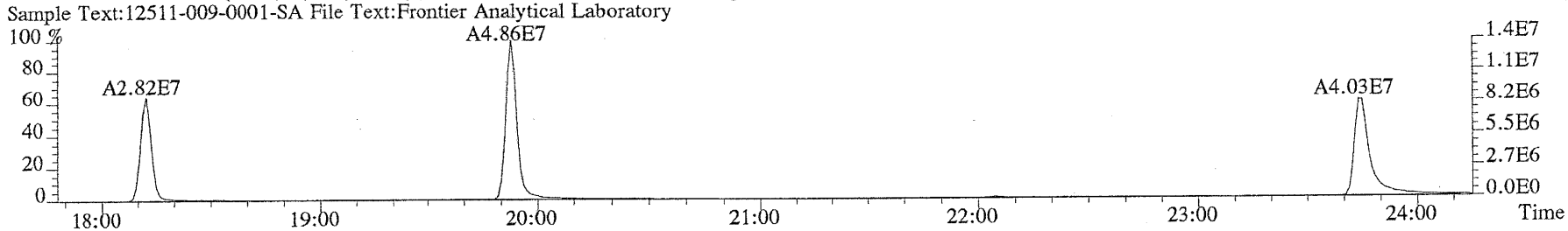
File:05AUG19Z #1-520 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



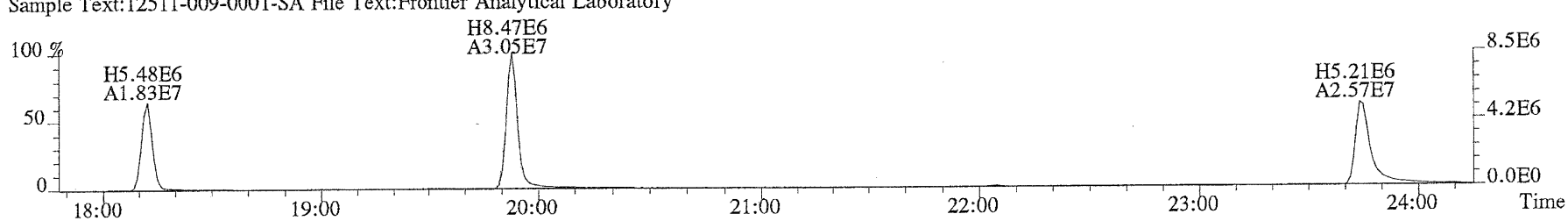
File:05AUG19Z #1-520 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



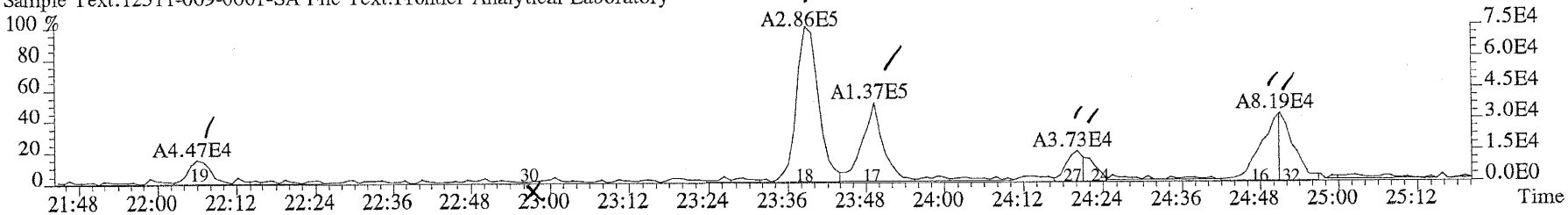
File:05AUG19Z #1-520 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



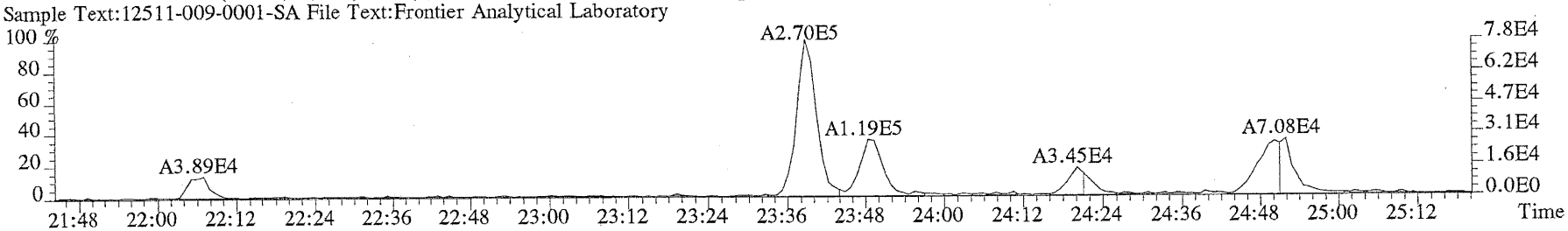
File:05AUG19Z #1-520 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



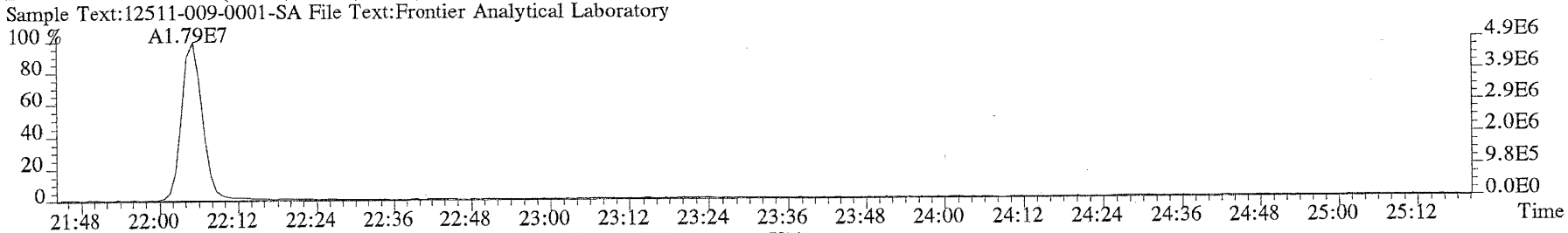
File:05AUG19Z #1-520 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



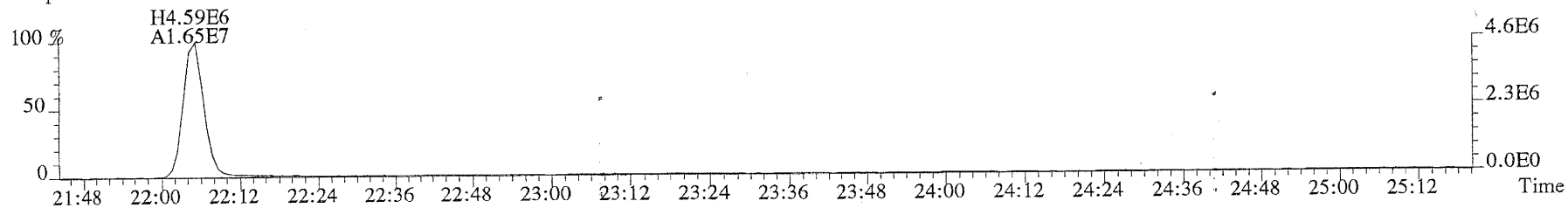
File:05AUG19Z #1-520 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



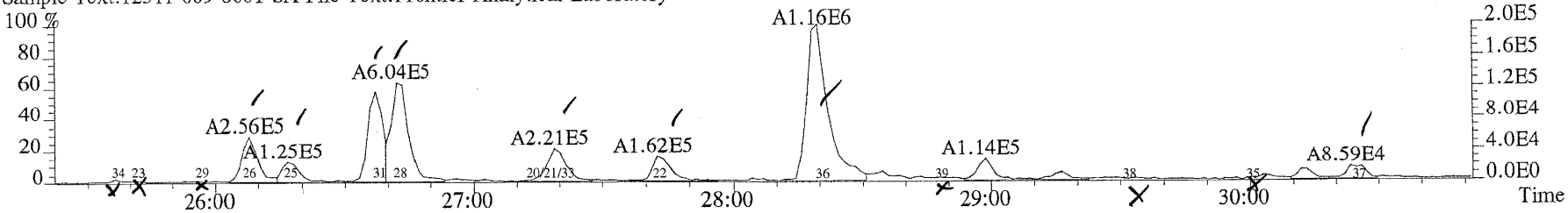
File:05AUG19Z #1-520 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



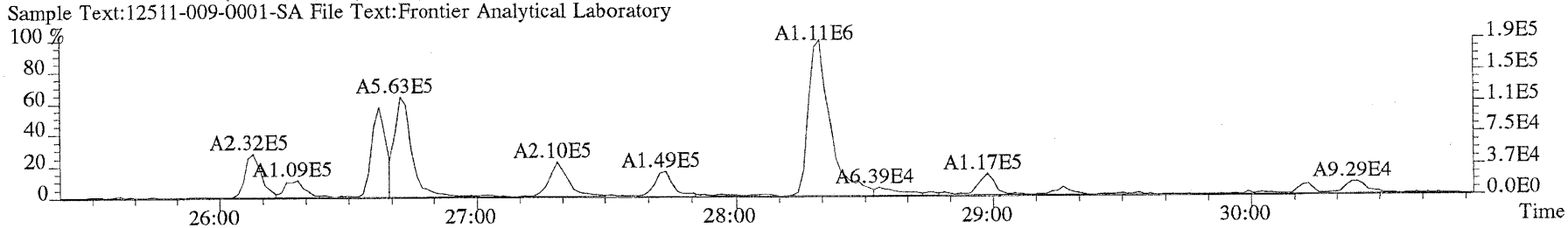
File:05AUG19Z #1-520 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



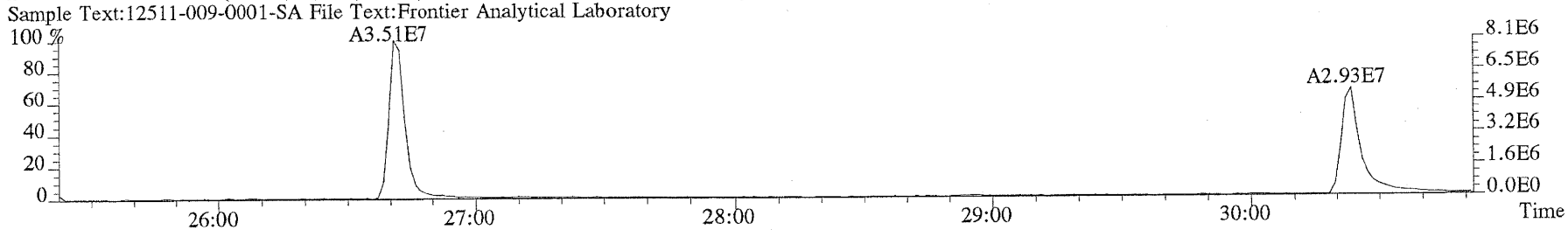
File:05AUG19Z #1-401 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



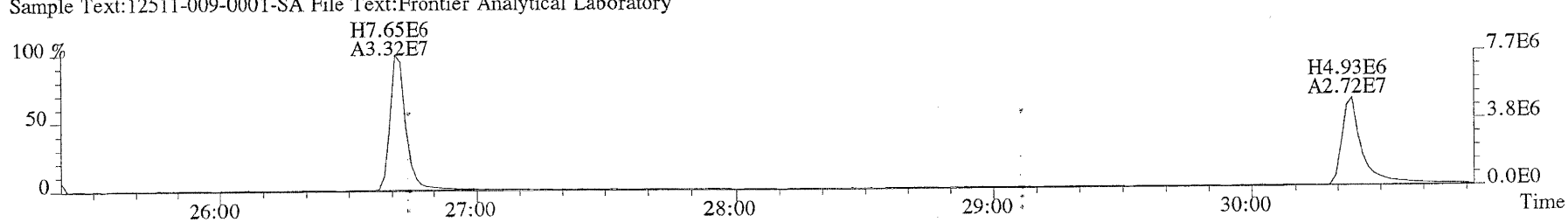
File:05AUG19Z #1-401 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



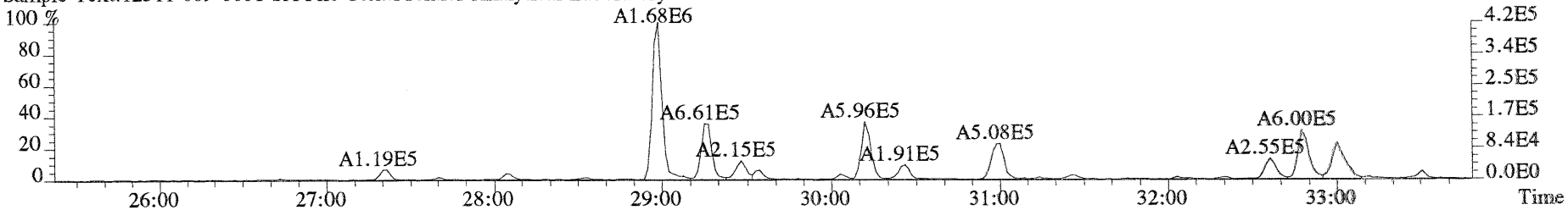
File:05AUG19Z #1-401 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



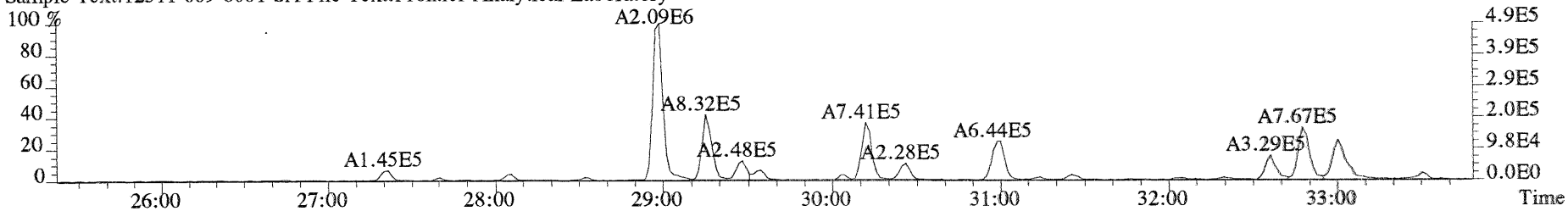
File:05AUG19Z #1-401 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



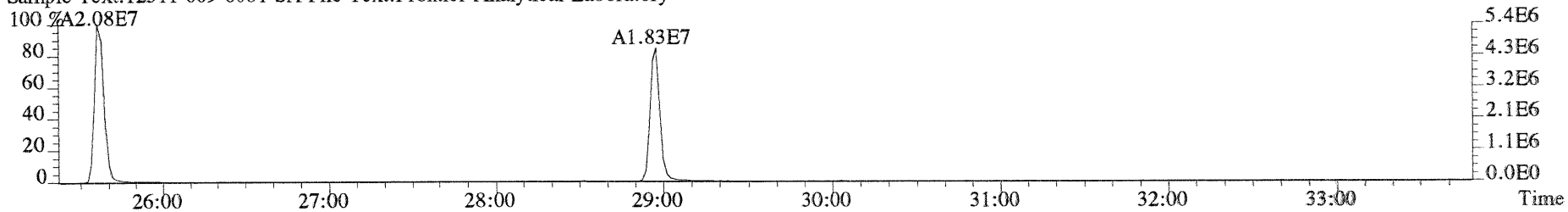
File:05AUG19Z #1-401 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



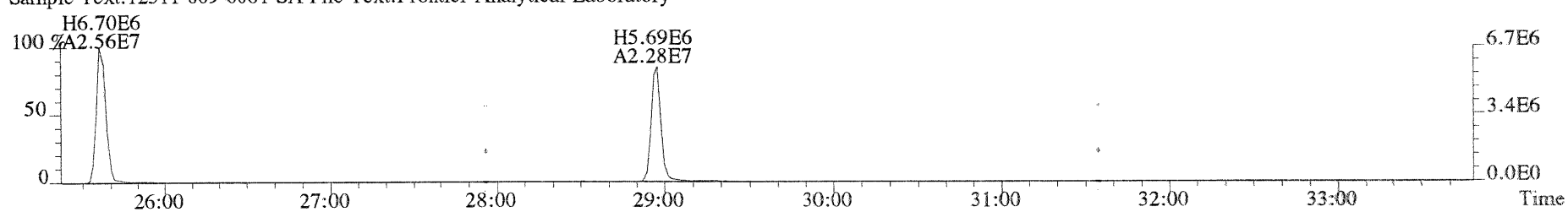
File:05AUG19Z #1-401 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



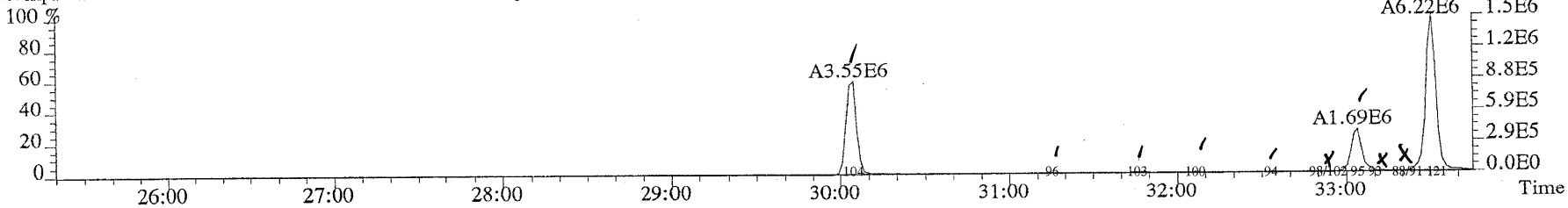
File:05AUG19Z #1-401 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



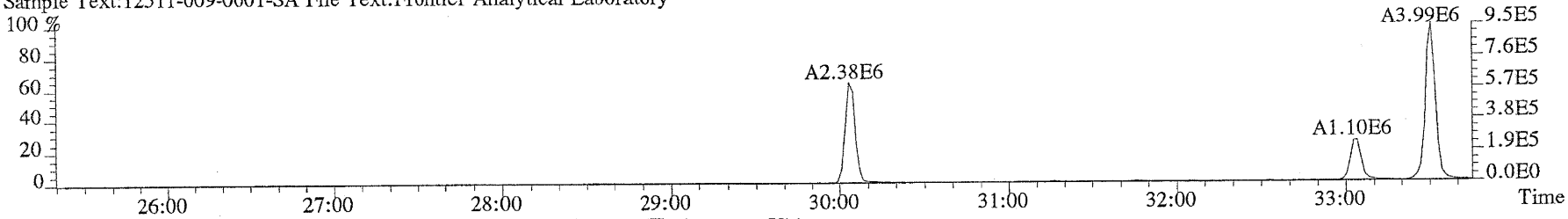
File:05AUG19Z #1-401 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



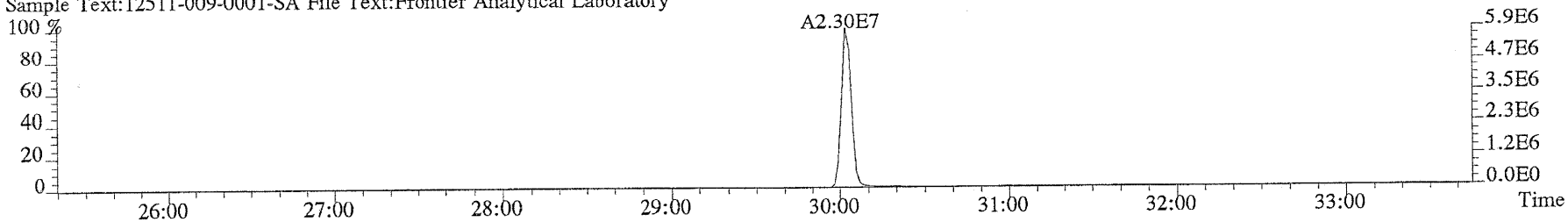
File:05AUG19Z #1-401 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



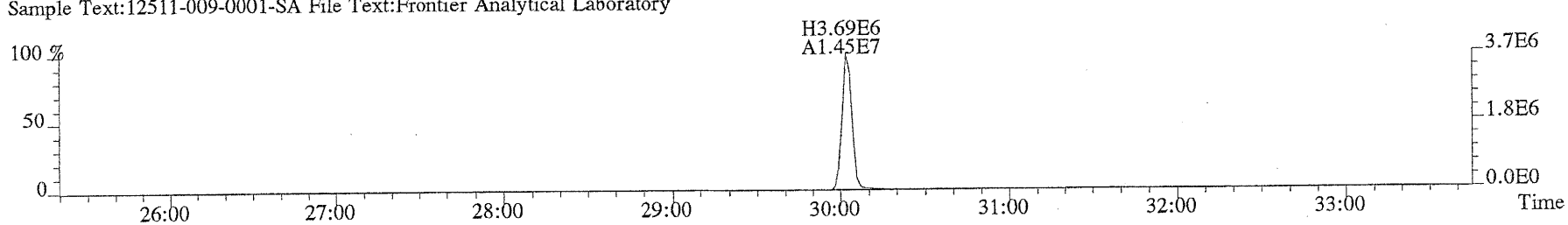
File:05AUG19Z #1-401 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



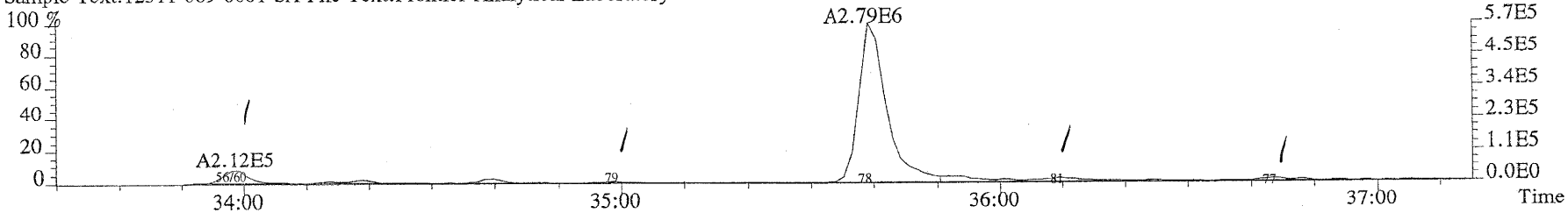
File:05AUG19Z #1-401 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



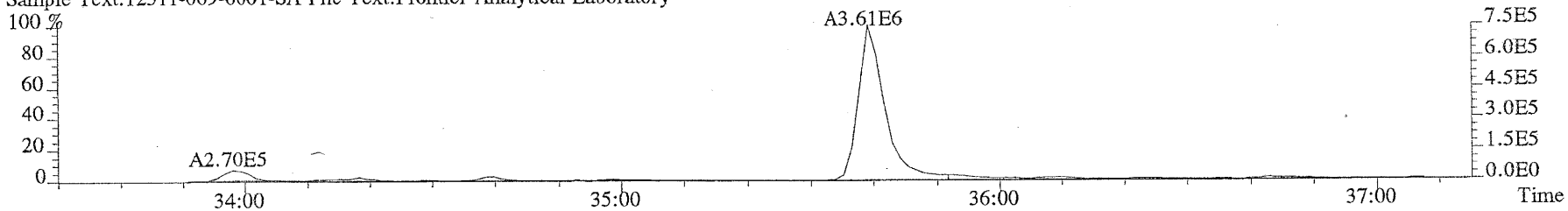
File:05AUG19Z #1-401 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



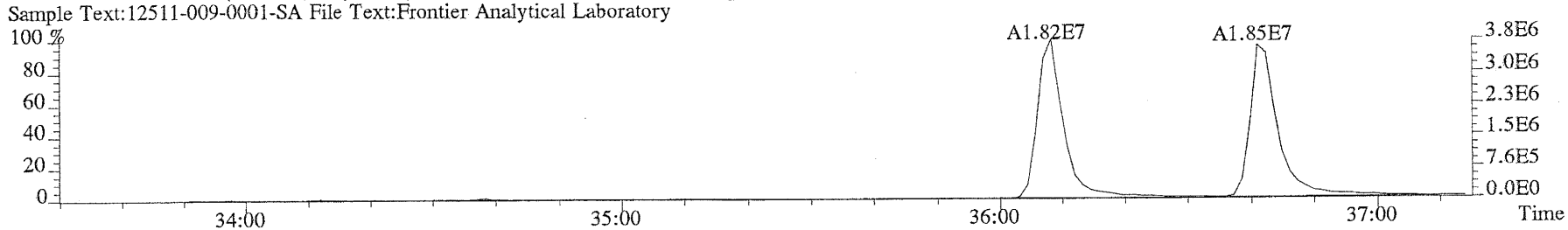
File:05AUG19Z #1-181 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



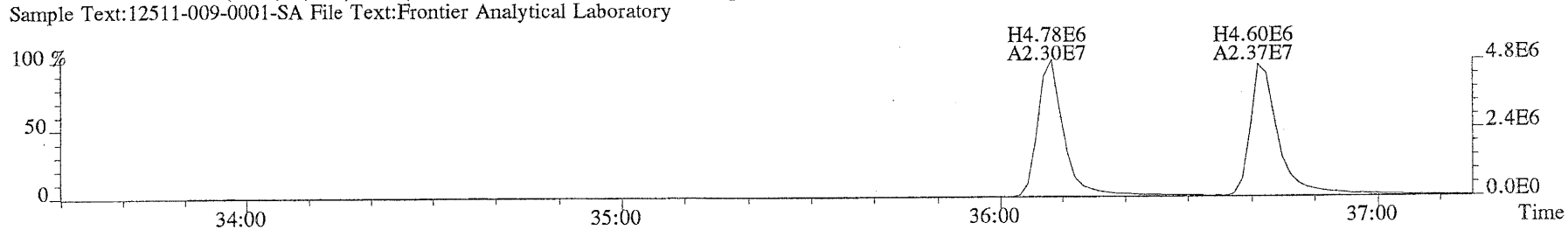
File:05AUG19Z #1-181 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



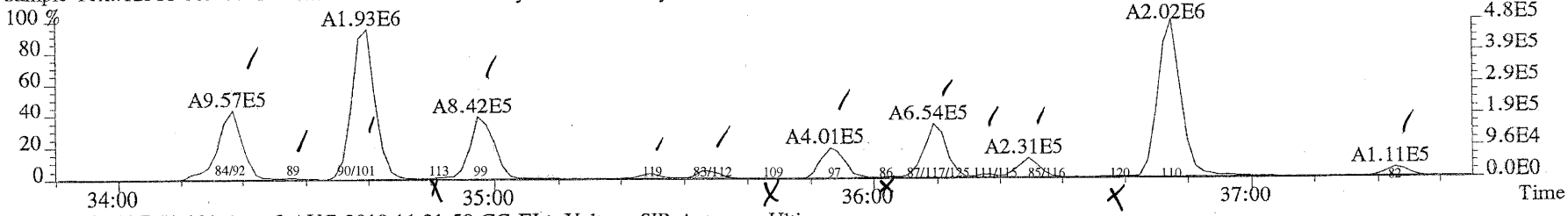
File:05AUG19Z #1-181 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



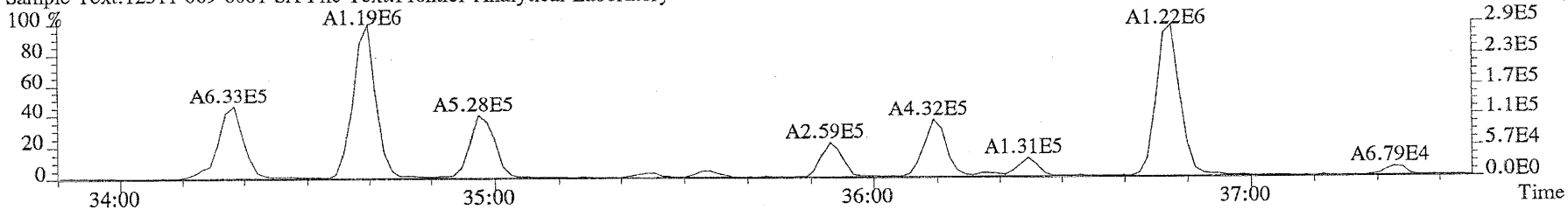
File:05AUG19Z #1-181 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



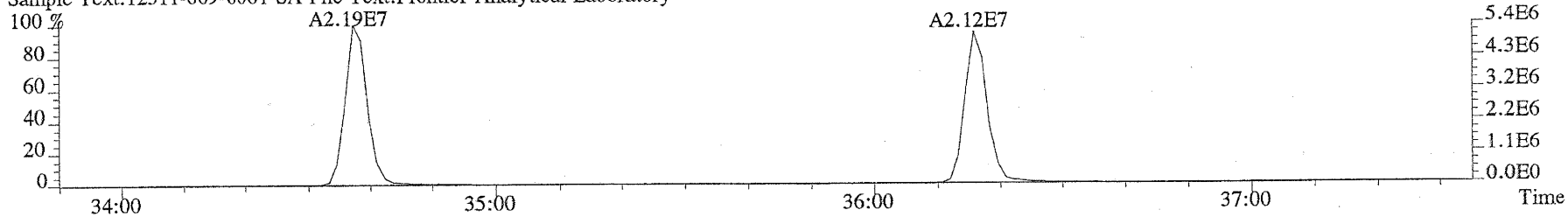
File:05AUG19Z #1-181 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



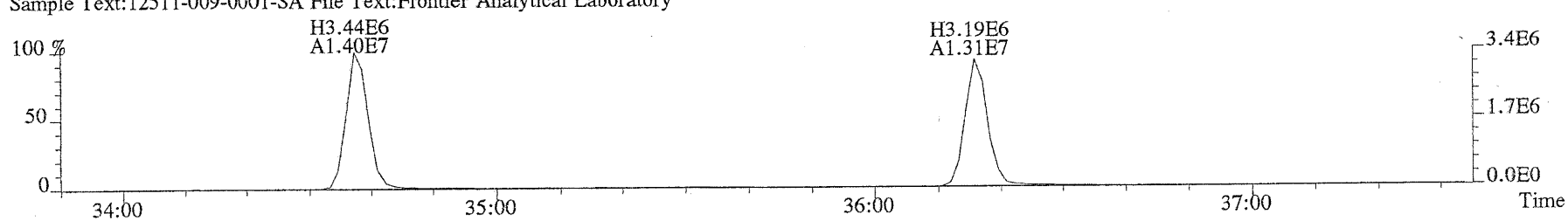
File:05AUG19Z #1-181 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



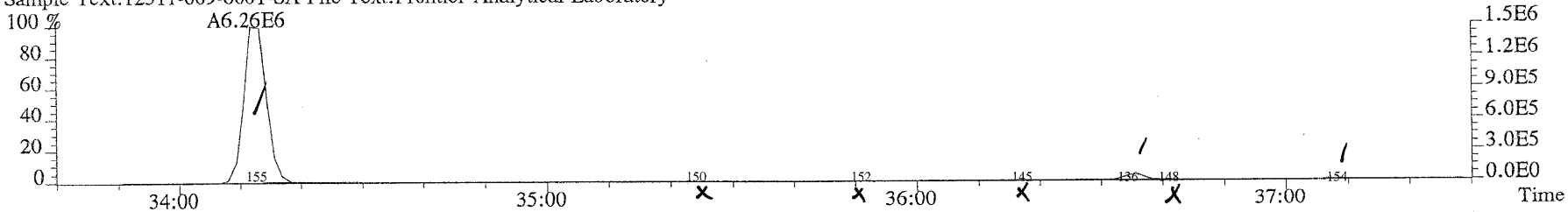
File:05AUG19Z #1-181 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



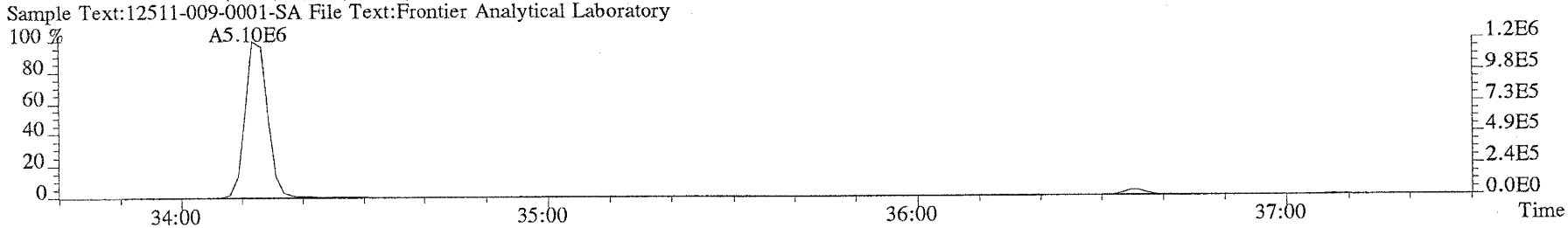
File:05AUG19Z #1-181 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



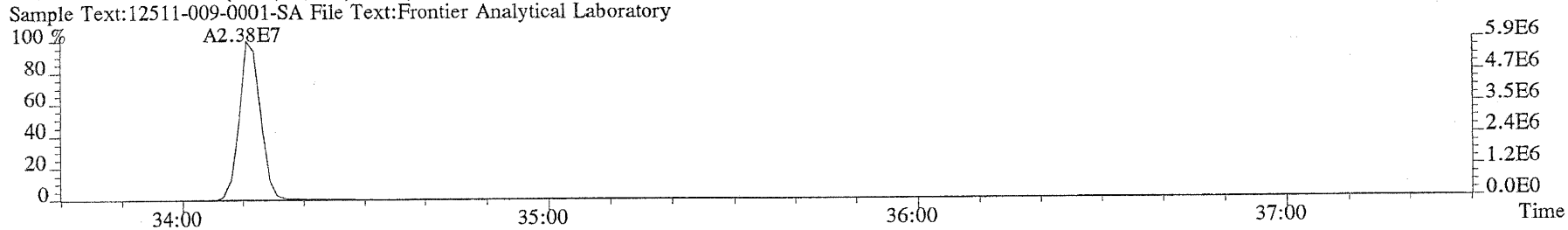
File:05AUG19Z #1-181 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



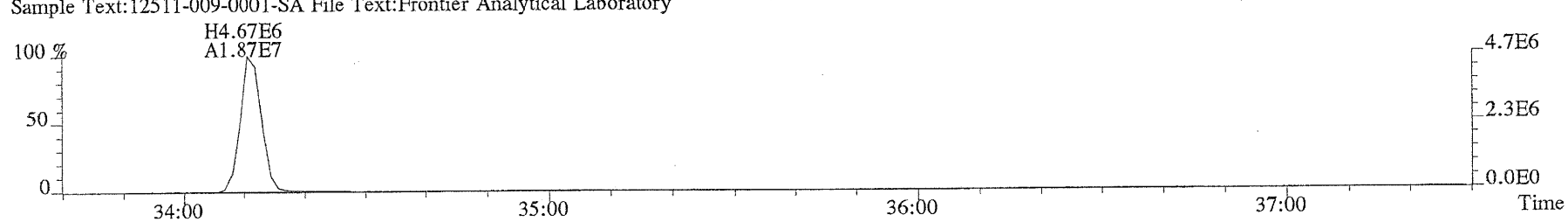
File:05AUG19Z #1-181 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



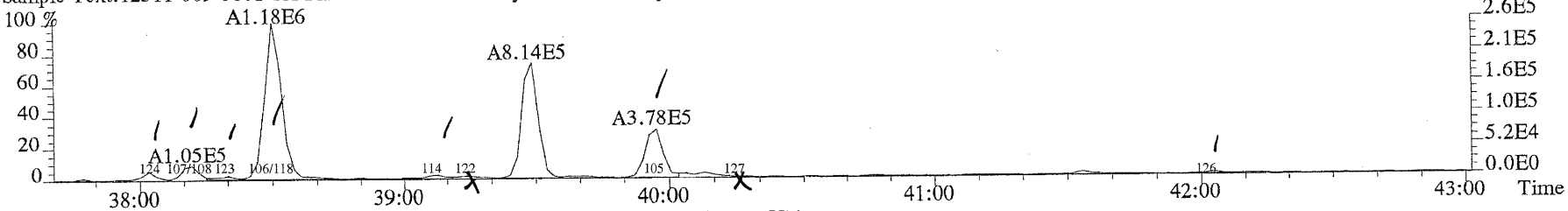
File:05AUG19Z #1-181 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



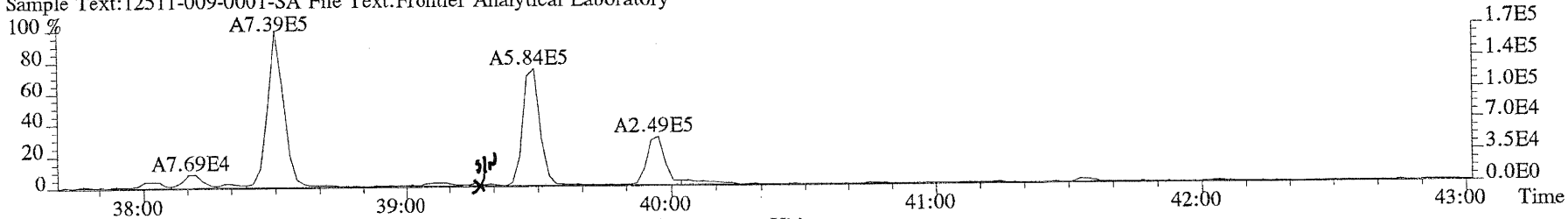
File:05AUG19Z #1-181 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



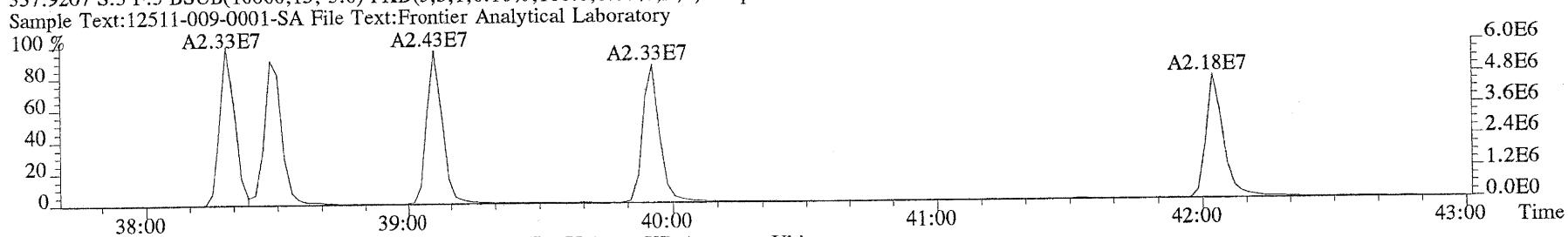
File:05AUG19Z #1-405 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



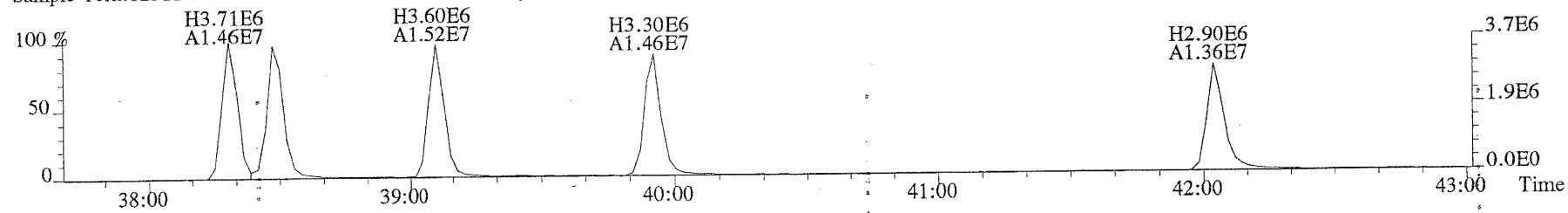
File:05AUG19Z #1-405 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



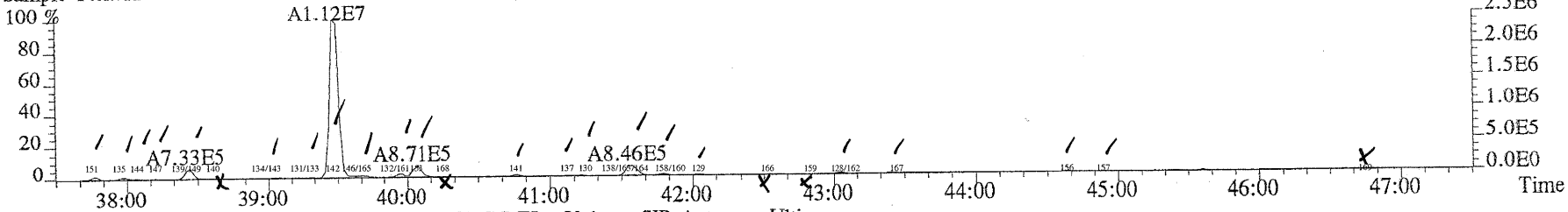
File:05AUG19Z #1-405 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



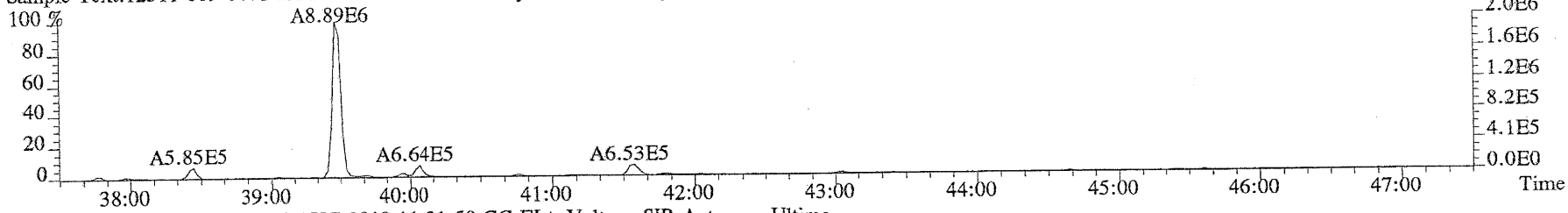
File:05AUG19Z #1-405 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



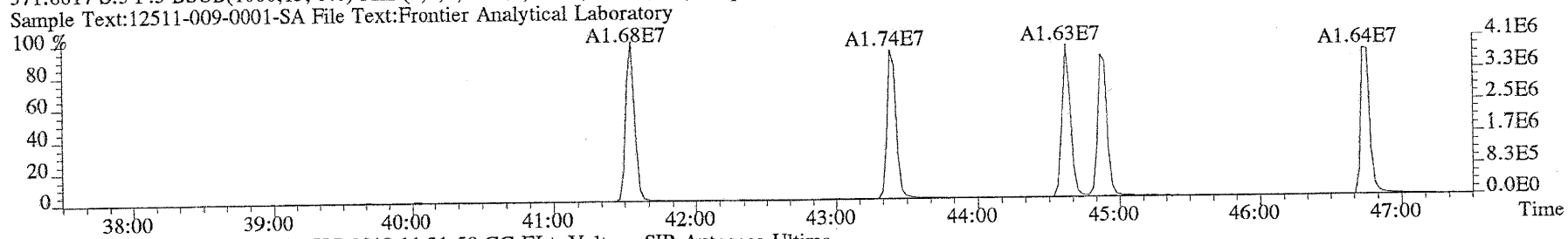
File:05AUG19Z #1-405 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



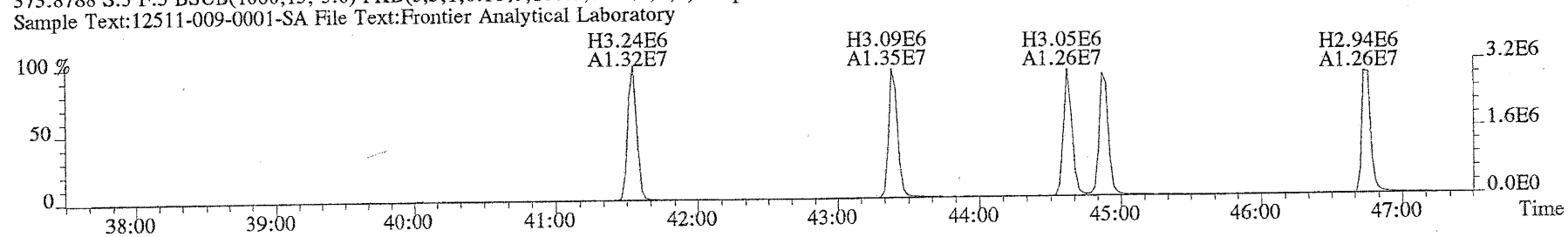
File:05AUG19Z #1-405 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



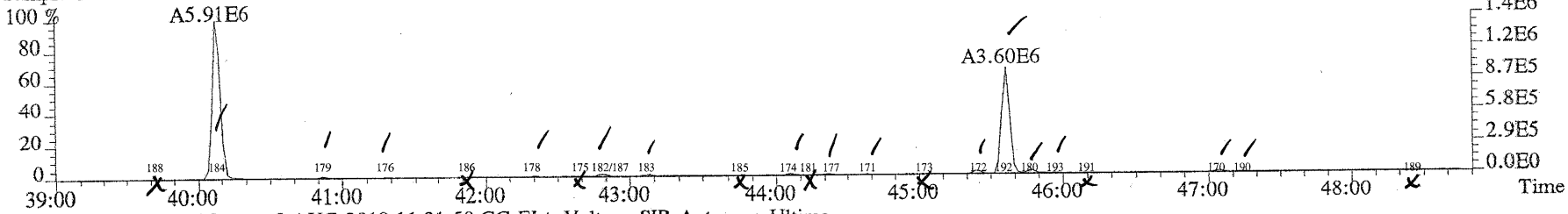
File:05AUG19Z #1-405 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



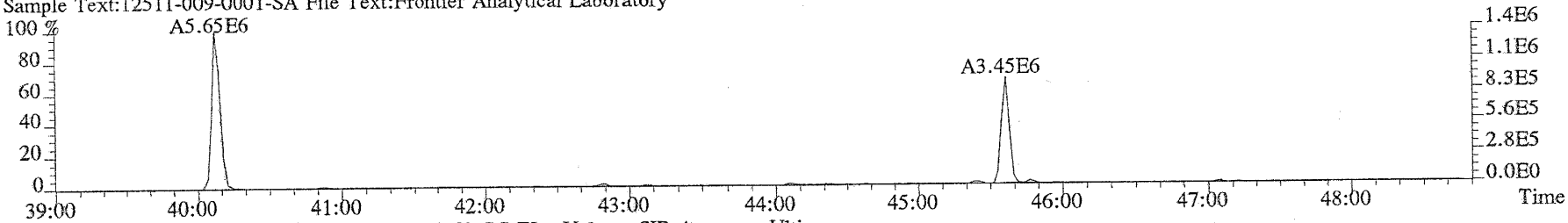
File:05AUG19Z #1-405 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



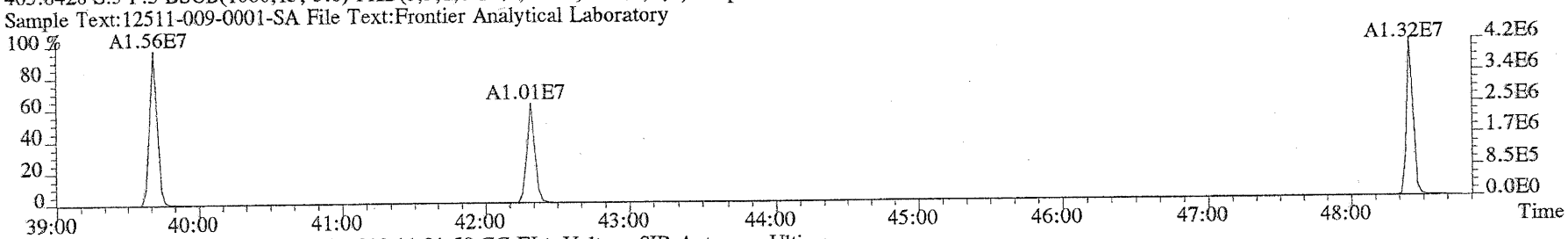
File:05AUG19Z #1-405 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



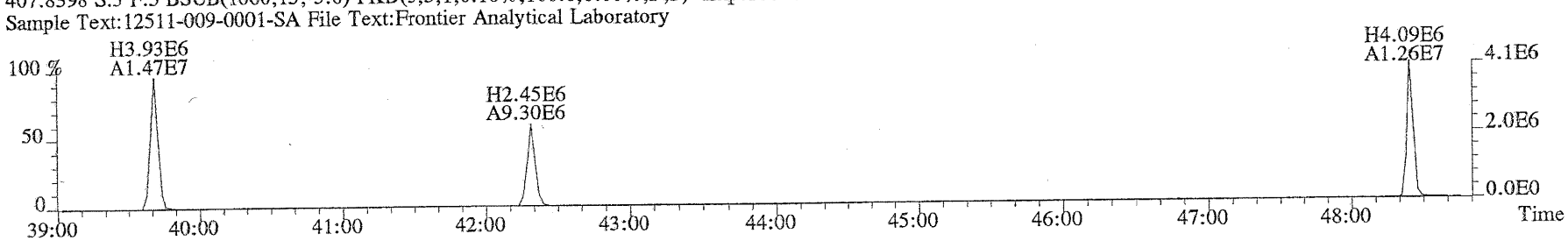
File:05AUG19Z #1-405 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



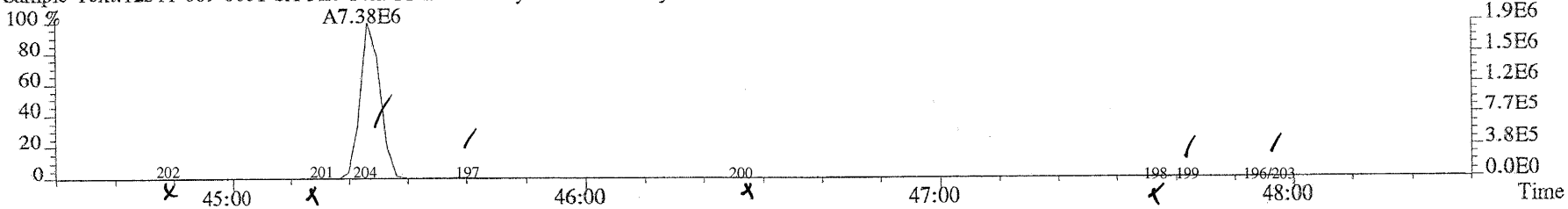
File:05AUG19Z #1-405 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



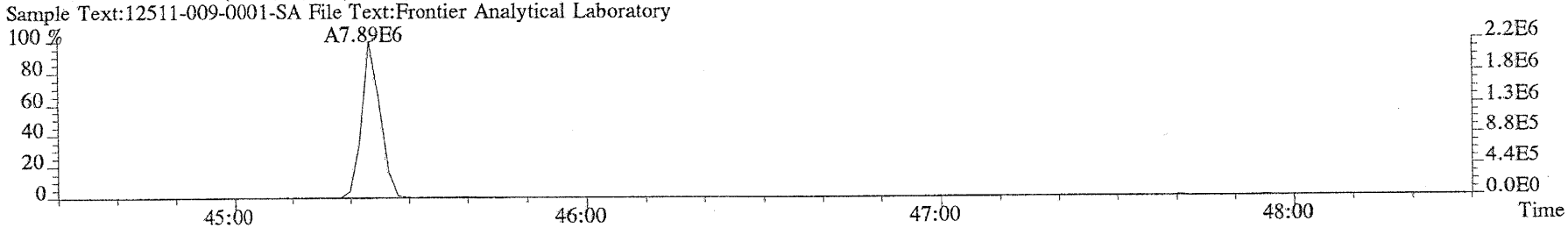
File:05AUG19Z #1-405 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



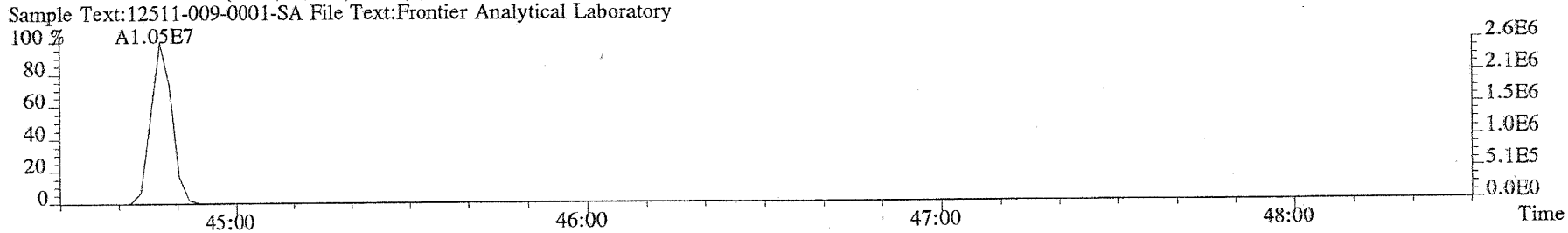
File:05AUG19Z #1-405 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



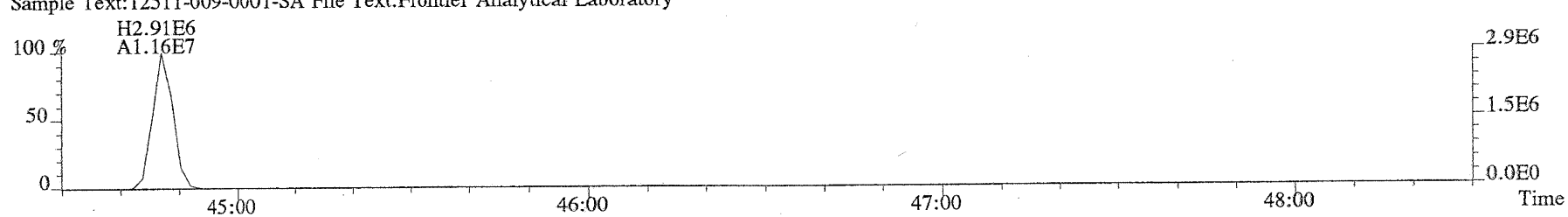
File:05AUG19Z #1-405 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



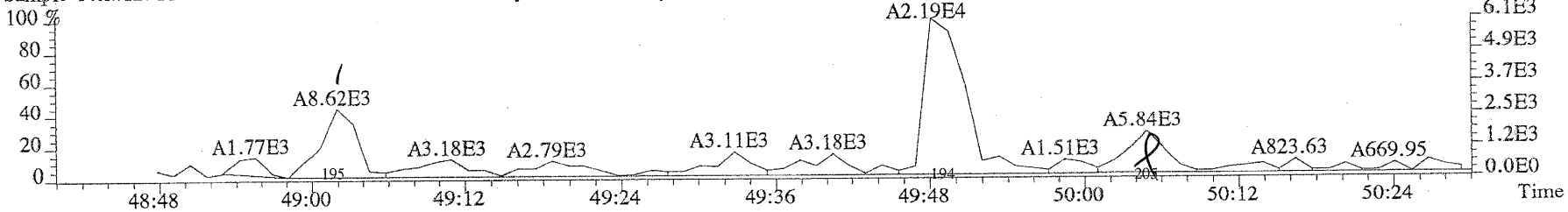
File:05AUG19Z #1-405 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



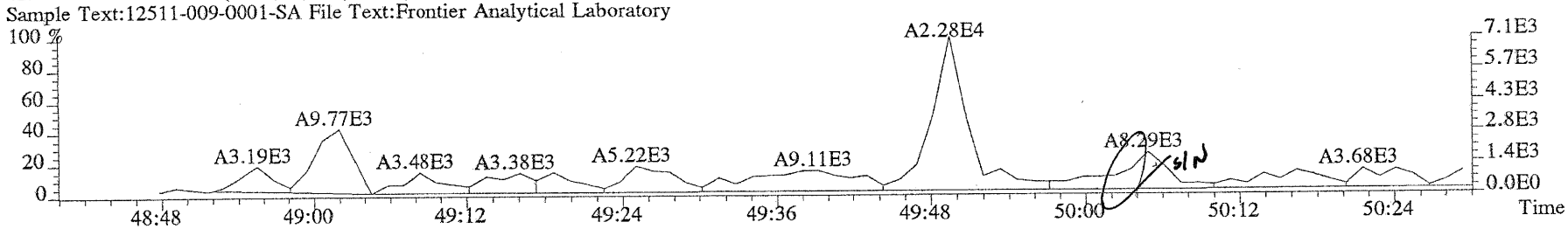
File:05AUG19Z #1-405 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



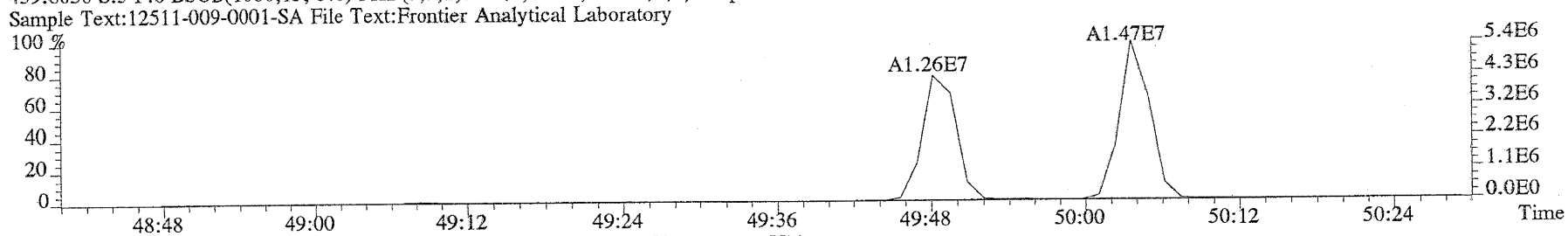
File:05AUG19Z #1-315 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



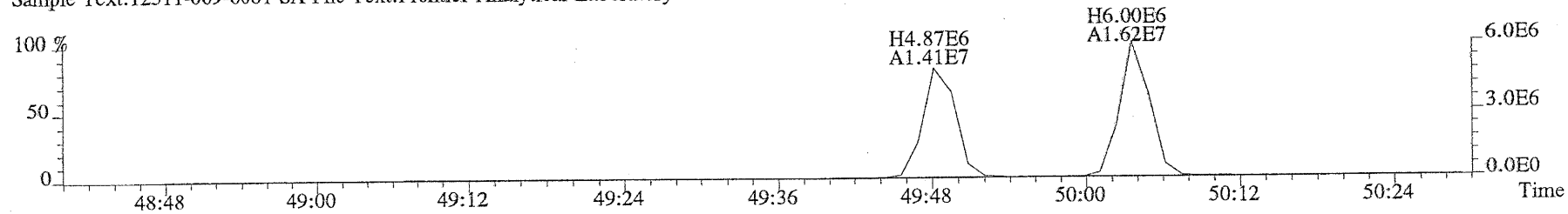
File:05AUG19Z #1-315 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



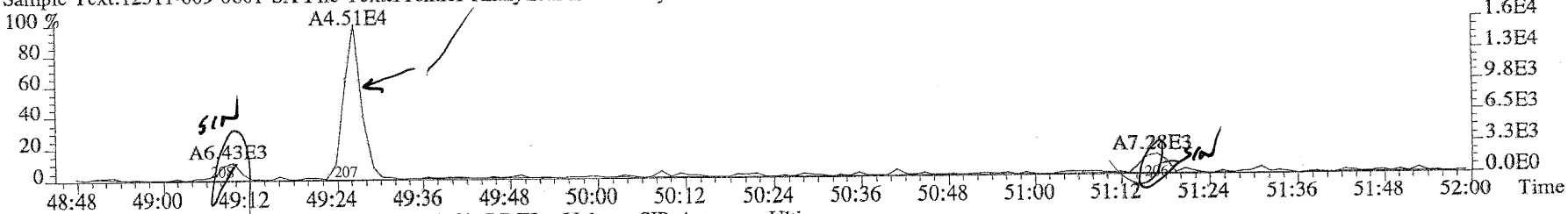
File:05AUG19Z #1-315 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



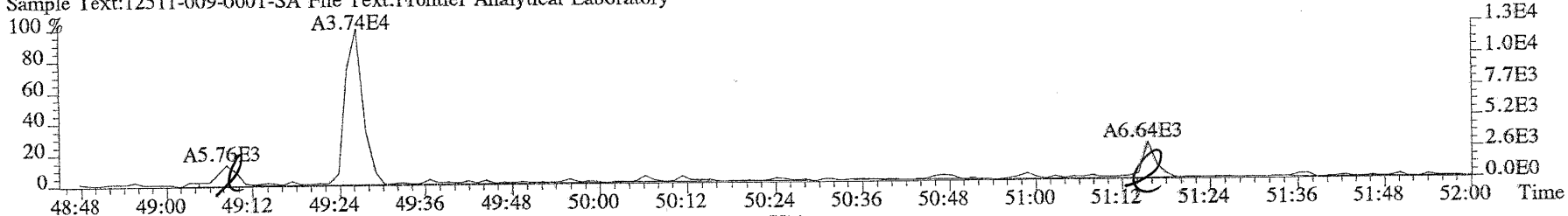
File:05AUG19Z #1-315 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



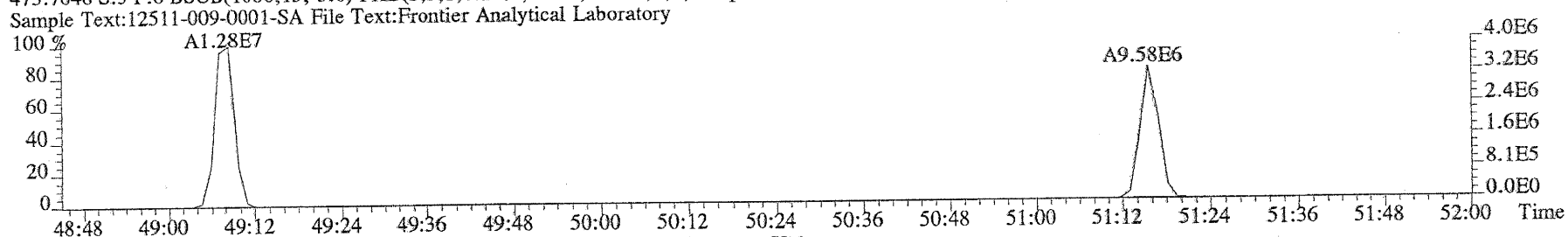
File:05AUG19Z #1-315 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



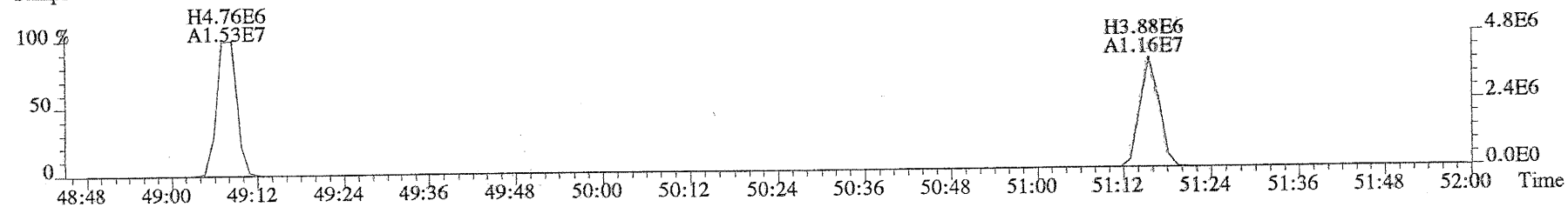
File:05AUG19Z #1-315 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



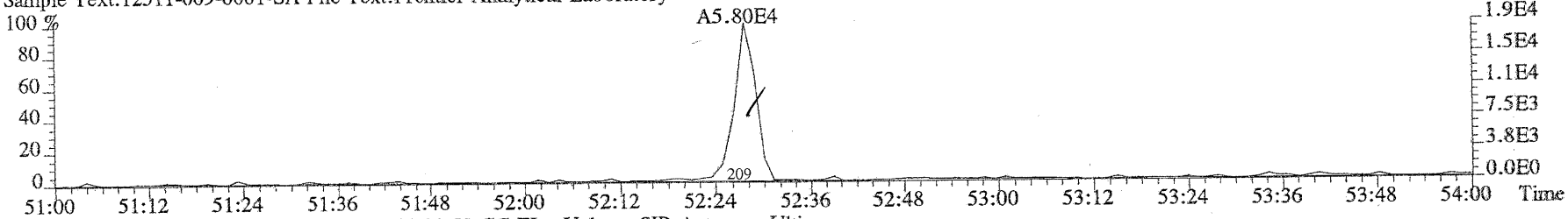
File:05AUG19Z #1-315 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



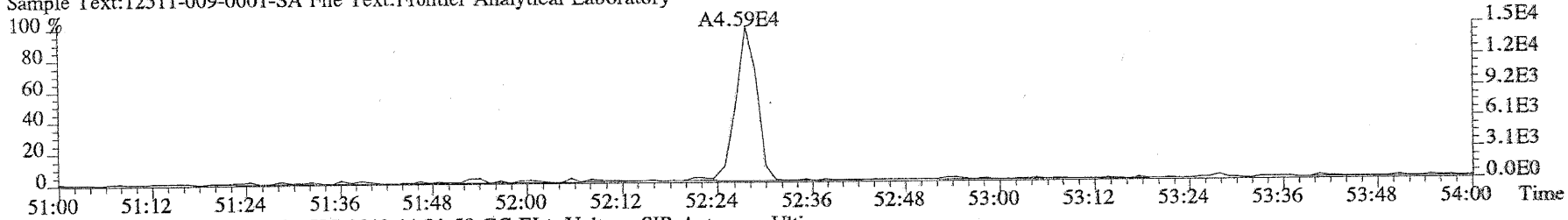
File:05AUG19Z #1-315 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



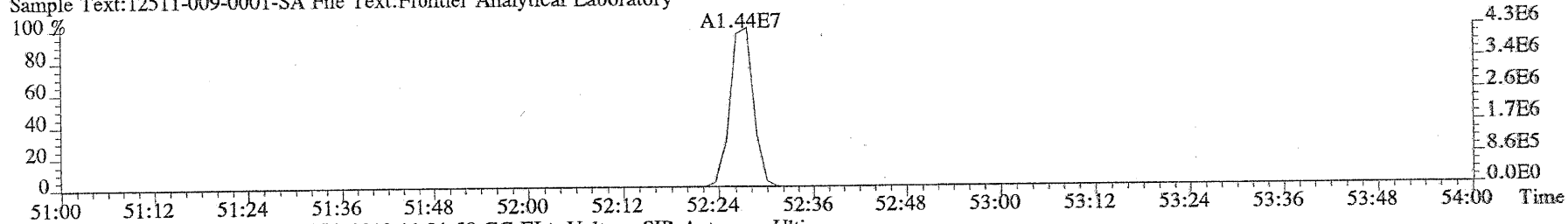
File:05AUG19Z #1-315 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



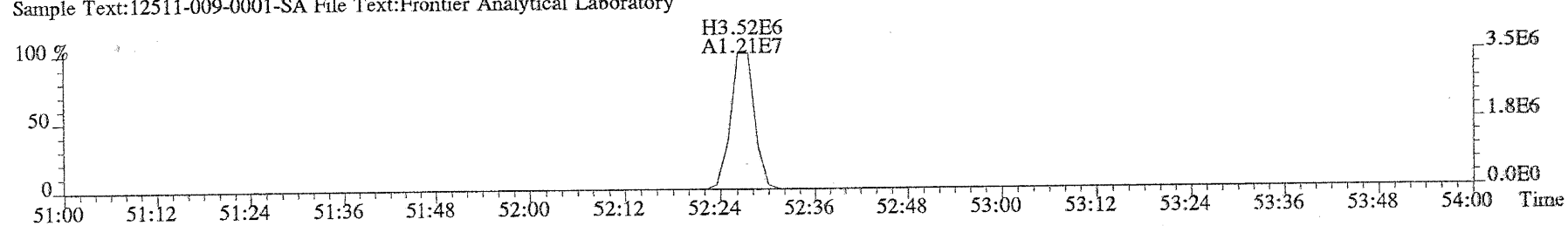
File:05AUG19Z #1-315 Acq: 5-AUG-2019 11:31:58 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-009-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 11:31:58 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:12511-009-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 11:31:58 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:12511-009-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12511-010-0001-SA Filename: 05AUG19Z Sam:4 Acquired: 5-AUG-19 12:30:20 ICal: DAILY209FAL4-8-5-19
Client ID: LDW-Y2-IN-ENR+AC-CA-SSWI 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	*	*	n	NotFnd	1.19	*		3560	3090	3.72	
13C-PCB-1	1.10e+08	3.19	y	14:32	0.92	8430					84.3
PCB-2	*	*	n	NotFnd	1.17	*		3560	3090	4.08	
PCB-3	*	*	n	NotFnd	1.22	*		3560	3090	4.22	
13C-PCB-3	1.10e+08	3.33	y	16:58	0.87	8930					89.3
PCB-4	3.50e+05	1.59	y	18:13	1.25	33.6		-	-	*	
PCB-10	*	*	n	NotFnd	1.30	*		987	6200	5.08	
13C-PCB-4	8.35e+07	1.61	y	18:11	0.71	8240					82.4
PCB-9	*	*	n	NotFnd	1.37	*		987	6200	4.84	
PCB-7	*	*	n	NotFnd	1.36	*		987	6200	4.84	
PCB-6	3.50e+05	1.49	y	20:31	1.59	20.9		-	-	*	
PCB-8	8.34e+05	1.49	y	20:54	1.33	59.5		-	-	*	
PCB-5	*	*	n	NotFnd	1.34	*		987	6200	4.92	
PCB-14	2.96e+06	1.47	y	21:57	1.30	216		-	-	*	
PCB-11	6.21e+05	1.46	y	23:06	1.18	50.1		-	-	*	
PCB-13	*	*	n	NotFnd	1.24	*		987	6200	5.34	
PCB-12	*	*	n	NotFnd	1.25	*		987	6200	5.30	
PCB-15	4.32e+05	1.63	y	23:45	1.12	30.5		-	-	*	
13C-PCB-15	1.27e+08	1.55	y	23:43	0.95	9380					93.8
PCB-19	1.84e+05	1.09	y	22:05	1.19	25.1		-	-	*	
PCB-30	*	*	n	NotFnd	1.71	*		1630	612	1.87	
PCB-18	1.46e+06	1.10	y	23:38	1.13	210		-	-	*	
PCB-17	6.78e+05	1.04	y	23:48	1.27	86.6		-	-	*	
PCB-27	1.30e+05	1.03	y	24:19	1.58	13.3	J	-	-	*	
PCB-24	1.55e+05	0.99	y	24:20	1.67	15.0	J	-	-	*	
PCB-16	3.55e+05	1.12	y	24:48	1.24	46.5		-	-	*	
PCB-32	5.15e+05	1.06	y	24:50	1.60	52.3		-	-	*	
13C-PCB-19	6.16e+07	1.04	y	22:04	0.50	8640					86.4
13C-PCB-9	1.42e+08	1.60	y	19:52	-	83.9					
PCB-34	*	*	n	NotFnd	1.28	*		3900	3500	6.71	
PCB-23	*	*	n	NotFnd	1.28	*		3900	3500	6.68	
PCB-29	*	*	n	NotFnd	1.29	*		3900	3500	6.64	
PCB-26	9.83e+05	1.13	y	26:07	1.26	70.5		-	-	*	
PCB-25	4.69e+05	1.03	y	26:17	1.26	33.7		-	-	*	
PCB-31	2.53e+06	0.99	y	26:37	1.26	183		-	-	*	
PCB-28	2.79e+06	1.14	y	26:42	1.55	163		-	-	*	
PCB-20	1.18e+06	1.06	y	27:19	1.25	86.2		-	-	*	Co-elute PCB 21/33
PCB-21	1.18e+06	1.06	y	27:19	1.25	86.2		-	-	*	Co-elute PCB 20/33
PCB-33	1.18e+06	1.06	y	27:19	1.25	86.2		-	-	*	Co-elute PCB 20/21
PCB-22	7.93e+05	1.07	y	27:43	1.38	52.2		-	-	*	
PCB-36	6.07e+06	1.04	y	28:18	1.23	449		-	-	*	
PCB-39	*	*	n	NotFnd	1.23	*		3900	3500	6.99	
PCB-38	*	*	n	NotFnd	1.26	*		3900	3500	6.81	
PCB-35	*	*	n	NotFnd	1.11	*		3900	3500	7.73	
PCB-37	4.08e+05	1.04	y	30:23	1.16	31.9		-	-	*	
13C-PCB-37	1.10e+08	1.09	y	30:22	1.52	9250					92.5

PCB-54	*	*	n	NotFnd	1.23	*		808	1120	1.82	
PCB-50	5.00e+04	0.80	y	26:43	0.93	6.49	J	-	-	*	
PCB-53	4.90e+05	0.79	y	27:20	0.91	65.3		-	-	*	
PCB-51	1.42e+05	0.78	y	27:39	0.92	18.6	J	-	-	*	
PCB-45	3.33e+05	0.80	y	28:04	0.78	51.9		-	-	*	
PCB-46	1.24e+05	0.77	y	28:32	0.74	20.2		-	-	*	
PCB-52	4.97e+06	0.79	y	28:57	0.89	675		-	-	*	Co-elute PCB 69
PCB-69	4.97e+06	0.79	y	28:57	0.89	675		-	-	*	Co-elute PCB 52
PCB-73	1.54e+05	0.84	y	29:05	1.15	16.2	J	-	-	*	
PCB-43	2.56e+06	0.80	y	29:15	0.79	391		-	-	*	Co-elute PCB 49
PCB-49	2.56e+06	0.80	y	29:15	0.79	391		-	-	*	Co-elute PCB 43
PCB-47	8.78e+05	0.77	y	29:26	0.87	122		-	-	*	
PCB-48	5.54e+05	0.79	y	29:33	1.00	67.0		-	-	*	Co-elute PCB 75
PCB-75	5.54e+05	0.79	y	29:33	1.00	67.0		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*		808	1120	2.22	
PCB-62	*	*	n	NotFnd	1.07	*		808	1120	2.08	
PCB-44	1.90e+06	0.80	y	30:12	0.68	337		-	-	*	
PCB-42	8.09e+05	0.83	y	30:24	0.90	108		-	-	*	Co-elute PCB 59
PCB-59	8.09e+05	0.83	y	30:24	0.90	108		-	-	*	Co-elute PCB 42
PCB-72	2.01e+06	0.78	y	30:59	0.99	247		-	-	*	Co-elute PCB 41/71/64
PCB-41	2.01e+06	0.78	y	30:59	0.99	247		-	-	*	Co-elute PCB 72/71/64
PCB-71	2.01e+06	0.78	y	30:59	0.99	247		-	-	*	Co-elute PCB 72/41/64
PCB-64	2.01e+06	0.78	y	30:59	0.99	247		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.30e+05	0.73	y	31:13	1.12	14.0	J	-	-	*	
PCB-40	2.52e+05	0.84	y	31:25	0.63	48.2		-	-	*	
PCB-57	4.51e+04	0.82	y	31:47	1.03	5.32	J	-	-	*	
PCB-67	1.09e+05	0.68	y	32:03	0.95	13.9	J	-	-	*	
PCB-58	*	*	n	NotFnd	1.11	*		808	1120	2.01	
PCB-63	9.73e+04	0.82	y	32:18	1.02	11.6	J	-	-	*	
PCB-74	1.02e+06	0.77	y	32:35	0.99	124		-	-	*	
PCB-61	2.43e+06	0.79	y	32:47	0.95	308		-	-	*	Co-elute PCB 70
PCB-70	2.43e+06	0.79	y	32:47	0.95	308		-	-	*	Co-elute PCB 61
PCB-76	2.18e+06	0.85	y	32:59	1.06	248		-	-	*	Co-elute PCB 66
PCB-66	2.18e+06	0.85	y	32:59	1.06	248		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.20	*		808	1120	1.86	
PCB-55	3.90e+05	0.88	y	33:29	1.04	45.2		-	-	*	
13C-PCB-54	8.27e+07	0.80	y	25:36	1.36	7740					77.4
PCB-104	1.28e+07	1.57	y	30:03	1.10	1710		-	-	*	
PCB-96	3.99e+04	1.43	y	31:15	1.03	5.67	J	-	-	*	
PCB-103	6.90e+04	1.58	y	31:44	0.81	12.4	J	-	-	*	
PCB-100	6.44e+04	1.58	y	32:04	0.81	11.6	J	-	-	*	
PCB-94	2.72e+04	1.62	y	32:32	0.67	5.98	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.68	*		312	404	1.61	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.68	*		312	404	1.61	Co-elute PCB 98
PCB-95	3.80e+06	1.55	y	33:02	0.78	719		-	-	*	
PCB-93	*	*	n	NotFnd	0.73	*		312	404	1.49	
PCB-88	*	*	n	NotFnd	0.76	*		312	404	1.45	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.76	*		312	404	1.45	Co-elute PCB 88
PCB-121	2.29e+07	1.57	y	33:29	0.94	3580		-	-	*	
13C-PCB-104	6.81e+07	1.61	y	30:02	1.05	8310					83.1
13C-PCB-28	1.24e+08	1.05	y	26:41	1.82	8700					87.0
13C-PCB-52	7.84e+07	0.80	y	28:56	-	96.5					

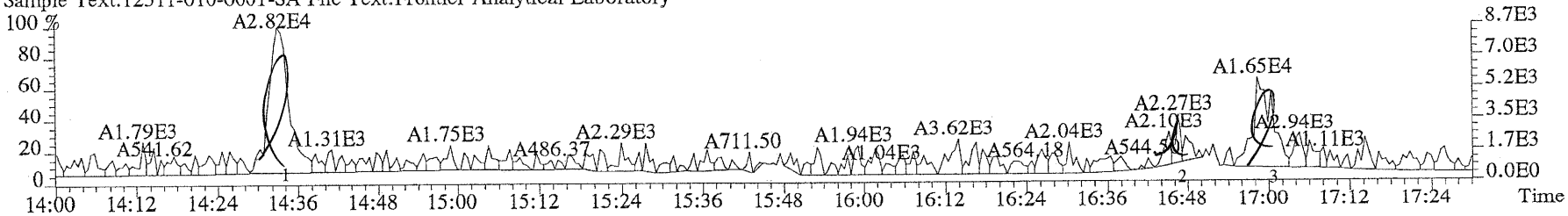
PCB-56	9.72e+05	0.81	y	33:58	1.14	107		-	-	*	Co-elute PCB 60
PCB-60	9.72e+05	0.81	y	33:58	1.14	107		-	-	*	Co-elute PCB 56
PCB-79	9.98e+04	0.81	y	34:57	1.22	10.3	J	-	-	*	
PCB-78	1.66e+07	0.79	y	35:39	1.17	1790		-	-	*	
PCB-81	3.08e+05	0.80	y	36:09	1.29	30.1		-	-	*	
13C-PCB-81	7.94e+07	0.79	y	36:07	1.32	9190					91.9
PCB-77	1.86e+05	0.76	y	36:42	1.11	21.0		-	-	*	
13C-PCB-77	7.96e+07	0.78	y	36:41	1.39	8780					87.8
PCB-155	2.58e+07	1.25	y	34:12	1.03	3250		-	-	*	
PCB-150	*	*	n	NotFnd	0.96	*		620	392	1.43	
PCB-152	*	*	n	NotFnd	0.95	*		620	392	1.46	
PCB-145	*	*	n	NotFnd	0.90	*		620	392	1.54	
PCB-136	6.30e+05	1.24	y	36:35	0.97	84.0		-	-	*	
PCB-148	*	*	n	NotFnd	0.60	*		620	392	2.32	
PCB-154	1.25e+05	1.37	y	37:07	0.78	20.6		-	-	*	
13C-PCB-155	7.70e+07	1.26	y	34:11	1.43	8250					82.5
13C-PCB-111	6.12e+07	1.59	y	36:16	1.12	8390					83.9
13C-PCB-101	6.53e+07	1.61	y	34:37	-	105					
PCB-84	2.20e+06	1.59	y	34:17	0.86	346		-	-	*	Co-elute PCB 92
PCB-92	2.20e+06	1.59	y	34:17	0.86	346		-	-	*	Co-elute PCB 84
PCB-89	6.15e+04	1.49	y	34:27	0.88	9.39	J	-	-	*	
PCB-90	4.40e+06	1.56	y	34:38	0.89	666		-	-	*	Co-elute PCB 101
PCB-101	4.40e+06	1.56	y	34:38	0.89	666		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.06	*		1360	1320	4.02	
PCB-99	2.15e+06	1.55	y	34:57	0.97	300		-	-	*	
PCB-119	1.47e+05	1.44	y	35:24	1.07	18.4	J	-	-	*	
PCB-83	2.14e+05	1.45	y	35:33	0.87	33.0		-	-	*	Co-elute PCB 112
PCB-112	2.14e+05	1.45	y	35:33	0.87	33.0		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.01	*		1360	1320	4.20	
PCB-97	9.04e+05	1.57	y	35:53	0.68	179		-	-	*	
PCB-86	*	*	n	NotFnd	0.77	*		1360	1320	5.50	
PCB-125	1.48e+06	1.58	y	36:09	0.90	222		-	-	*	Co-elute PCB 87/117
PCB-87	1.48e+06	1.58	y	36:09	0.90	222		-	-	*	Co-elute PCB 125/117
PCB-117	1.48e+06	1.58	y	36:09	0.90	222		-	-	*	Co-elute PCB 125/87
PCB-111	1.00e+05	1.64	y	36:18	1.04	13.0	J	-	-	*	Co-elute PCB 115
PCB-115	1.00e+05	1.64	y	36:18	1.04	13.0	J	-	-	*	Co-elute PCB 111
PCB-85	5.63e+05	1.60	y	36:23	0.85	88.9		-	-	*	Co-elute PCB 116
PCB-116	5.63e+05	1.60	y	36:23	0.85	88.9		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.04	*		1360	1320	4.10	
PCB-110	4.80e+06	1.58	y	36:46	0.99	654		-	-	*	
PCB-82	2.60e+05	1.45	y	37:23	0.57	61.5		-	-	*	
PCB-124	1.54e+05	1.41	y	38:00	1.12	18.5	J	-	-	*	
PCB-108	2.59e+05	1.43	y	38:10	1.10	31.6		-	-	*	Co-elute PCB 107
PCB-107	2.59e+05	1.43	y	38:10	1.10	31.6		-	-	*	Co-elute PCB 108
PCB-123	7.05e+04	1.43	y	38:20	1.03	9.31	J	-	-	*	
13C-PCB-123	7.34e+07	1.56	y	38:18	1.30	10400					104
PCB-118	3.04e+06	1.52	y	38:30	1.06	374		-	-	*	Co-elute PCB 106
PCB-106	3.04e+06	1.52	y	38:30	1.06	374		-	-	*	Co-elute PCB 118
13C-PCB-118	7.67e+07	1.61	y	38:28	1.44	9860					98.6
PCB-114	8.81e+04	1.40	y	39:06	1.19	9.85	J	-	-	*	
13C-PCB-114	7.53e+07	1.59	y	39:06	1.33	10400					104
PCB-122	4.26e+04	1.75	y	39:14	1.06	5.40	J	-	-	*	
PCB-105	9.52e+05	1.51	y	39:55	1.11	120		-	-	*	
13C-PCB-105	7.12e+07	1.61	y	39:54	1.36	9630					96.3

PCB-127	*	*	n	NotFnd	1.03	*		852	1020	2.88	
PCB-126	*	*	n	NotFnd	1.08	*		852	1020	3.51	
13C-PCB-126	6.26e+07	1.60	y	42:02	1.24	9300					93.0
PCB-151	6.43e+05	1.22	y	37:45	0.84	139		-	-	*	
PCB-135	4.15e+05	1.30	y	37:57	0.91	82.9		-	-	*	
PCB-144	1.11e+05	1.19	y	38:04	0.96	21.0		-	-	*	
PCB-147	1.03e+05	1.35	y	38:12	1.00	18.8	J	-	-	*	
PCB-139	2.28e+06	1.30	y	38:25	1.08	385		-	-	*	Co-elute PCB 149
PCB-149	2.28e+06	1.30	y	38:25	1.08	385		-	-	*	Co-elute PCB 139
PCB-140	4.65e+04	1.09	y	38:36	1.01	8.39	J	-	-	*	
PCB-143	1.69e+05	1.22	y	39:03	0.84	36.4		-	-	*	Co-elute PCB 134
PCB-134	1.69e+05	1.22	y	39:03	0.84	36.4		-	-	*	Co-elute PCB 143
PCB-131	6.02e+04	1.16	y	39:18	0.86	12.7	J	-	-	*	Co-elute PCB 133
PCB-133	6.02e+04	1.16	y	39:18	0.86	12.7	J	-	-	*	Co-elute PCB 131
PCB-142	4.90e+07	1.27	y	39:27	0.83	10700		-	-	*	
PCB-165	5.94e+05	1.33	y	39:39	1.14	94.8		-	-	*	Co-elute PCB 146
PCB-146	5.94e+05	1.33	y	39:39	1.14	94.8		-	-	*	Co-elute PCB 165
PCB-161	8.04e+05	1.24	y	39:55	1.06	138		-	-	*	Co-elute PCB 132
PCB-132	8.04e+05	1.24	y	39:55	1.06	138		-	-	*	Co-elute PCB 161
PCB-153	2.84e+06	1.28	y	40:02	1.15	449		-	-	*	
PCB-168	*	*	n	NotFnd	1.23	*		948	864	2.87	
PCB-141	3.84e+05	1.33	y	40:45	0.90	77.6		-	-	*	
PCB-137	1.28e+05	1.24	y	41:06	0.84	27.7		-	-	*	
PCB-130	1.65e+05	1.25	y	41:13	0.89	33.8		-	-	*	
PCB-138	2.57e+06	1.25	y	41:33	1.15	404		-	-	*	Co-elute PCB 163/164
PCB-163	2.57e+06	1.25	y	41:33	1.15	404		-	-	*	Co-elute PCB 138/164
PCB-164	2.57e+06	1.25	y	41:33	1.15	404		-	-	*	Co-elute PCB 138/163
PCB-158	3.26e+05	1.23	y	41:46	1.23	48.0		-	-	*	Co-elute PCB 160
PCB-160	3.26e+05	1.23	y	41:46	1.23	48.0		-	-	*	Co-elute PCB 158
PCB-129	5.09e+04	1.39	y	42:01	0.81	11.5	J	-	-	*	
PCB-166	*	*	n	NotFnd	1.18	*		948	864	3.00	
PCB-159	5.28e+04	1.36	y	42:47	1.28	7.52	J	-	-	*	
PCB-128	4.02e+05	1.29	y	43:01	1.04	70.1		-	-	*	Co-elute PCB 162
PCB-162	4.02e+05	1.29	y	43:01	1.04	70.1		-	-	*	Co-elute PCB 128
PCB-167	9.01e+04	1.13	y	43:25	1.13	14.3	J	-	-	*	
13C-PCB-167	5.60e+07	1.29	y	43:23	1.10	9400					94.0
PCB-156	2.01e+05	1.19	y	44:39	1.20	30.6		-	-	*	
13C-PCB-156	5.47e+07	1.29	y	44:37	1.05	9570					95.7
PCB-157	7.30e+04	1.26	y	44:53	1.12	11.5	J	-	-	*	
13C-PCB-157	5.67e+07	1.32	y	44:52	1.13	9220					92.2
PCB-169	*	*	n	NotFnd	1.07	*		948	864	3.18	
13C-PCB-169	5.29e+07	1.29	y	46:44	1.06	9190					91.9

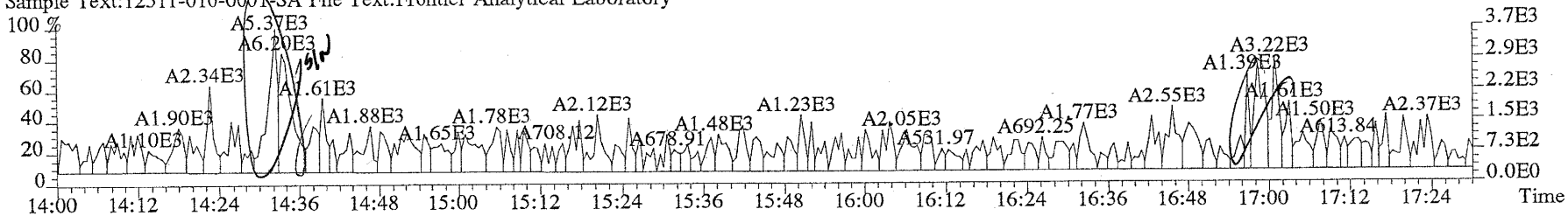
PCB-188	3.18e+04	1.11	y	39:42	1.08	5.25	J	-	-	*	
13C-PCB-188	5.62e+07	1.06	y	39:41	1.13	9150					91.5
PCB-184	2.89e+07	1.06	y	40:07	1.19	4560		-	-	*	
PCB-179	2.28e+05	1.12	y	40:51	1.08	39.4		-	-	*	
PCB-176	6.58e+04	1.04	y	41:18	1.07	11.5	J	-	-	*	
PCB-186	3.55e+04	1.03	y	41:52	1.10	6.04	J	-	-	*	
PCB-178	7.64e+04	1.02	y	42:19	0.75	19.1	J	-	-	*	
PCB-175	2.41e+04	1.14	y	42:38	0.74	6.05	J	-	-	*	
PCB-187	4.01e+05	1.12	y	42:48	0.85	87.8		-	-	*	Co-elute PCB 182
PCB-182	4.01e+05	1.12	y	42:48	0.85	87.8		-	-	*	Co-elute PCB 187
PCB-183	2.01e+05	0.97	y	43:06	0.82	45.7		-	-	*	
PCB-185	4.42e+04	1.05	y	43:44	0.75	11.0	J	-	-	*	
PCB-174	2.61e+05	1.02	y	44:04	0.78	62.6		-	-	*	
PCB-181	3.06e+04	0.96	y	44:11	0.74	7.70	J	-	-	*	
PCB-177	1.47e+05	1.07	y	44:20	0.68	40.1		-	-	*	
PCB-171	7.49e+04	0.99	y	44:39	0.76	18.5	J	-	-	*	
PCB-173	*	*	n	NotFnd	0.67	*		772	468	3.40	
PCB-172	4.70e+05	1.05	y	45:23	0.70	125		-	-	*	
PCB-192	1.77e+07	1.07	y	45:36	0.92	3600		-	-	*	
PCB-180	5.26e+05	0.95	y	45:46	0.70	140		-	-	*	
PCB-193	6.11e+04	0.98	y	45:58	0.99	11.5	J	-	-	*	
PCB-191	*	*	n	NotFnd	0.96	*		772	468	2.36	
PCB-170	1.76e+05	1.15	y	47:03	0.69	47.8		-	-	*	
PCB-190	6.40e+04	0.91	y	47:13	0.95	12.6	J	-	-	*	
PCB-189	*	*	n	NotFnd	1.05	*		772	468	1.80	
13C-PCB-189	5.07e+07	1.07	y	48:24	0.96	9690					96.9
PCB-202	3.62e+04	0.88	y	44:48	1.02	8.37	J	-	-	*	
PCB-201	*	*	n	NotFnd	1.06	*		324	448	1.92	
PCB-204	4.07e+07	0.92	y	45:23	1.05	9180		-	-	*	
PCB-197	2.54e+05	0.92	y	45:38	1.06	56.5		-	-	*	
PCB-200	*	*	n	NotFnd	1.09	*		324	448	1.86	
PCB-198	*	*	n	NotFnd	0.78	*		324	448	2.60	
PCB-199	8.91e+04	0.94	y	47:40	0.75	28.3		-	-	*	
PCB-203	8.81e+04	0.82	y	47:56	0.86	24.2		-	-	*	Co-elute PCB 196
PCB-196	8.81e+04	0.82	y	47:56	0.86	24.2		-	-	*	Co-elute PCB 203
13C-PCB-202	4.23e+07	0.89	y	44:47	0.87	8940					89.4
13C-PCB-178	3.51e+07	1.09	y	42:19	0.71	9050					90.5
13C-PCB-138	5.42e+07	1.30	y	41:31	-	94.2					
PCB-195	3.34e+04	0.80	y	49:01	0.74	7.21	J	-	-	*	
PCB-194	7.87e+04	0.84	y	49:49	0.85	14.8	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.07	*		996	1080	2.16	
13C-PCB-205	6.26e+07	0.91	y	50:04	1.28	9280					92.8
PCB-208	*	*	n	NotFnd	1.06	*		988	994	2.34	
13C-PCB-208	6.09e+07	0.81	y	49:07	1.22	9490					94.9
PCB-207	2.11e+05	1.37	y	49:26	1.16	35.1		-	-	*	
PCB-206	3.03e+04	1.38	y	51:17	1.06	6.70	J	-	-	*	
13C-PCB-206	4.26e+07	0.82	y	51:15	0.91	8850					88.5
PCB-209	2.16e+05	1.17	y	52:27	1.12	38.5		-	-	*	
13C-PCB-209	5.00e+07	1.20	y	52:27	1.14	8320					83.2
13C-PCB-194	5.27e+07	0.91	y	49:48	-	100.0					

Analyst: [illegible] Date: 8/6/19

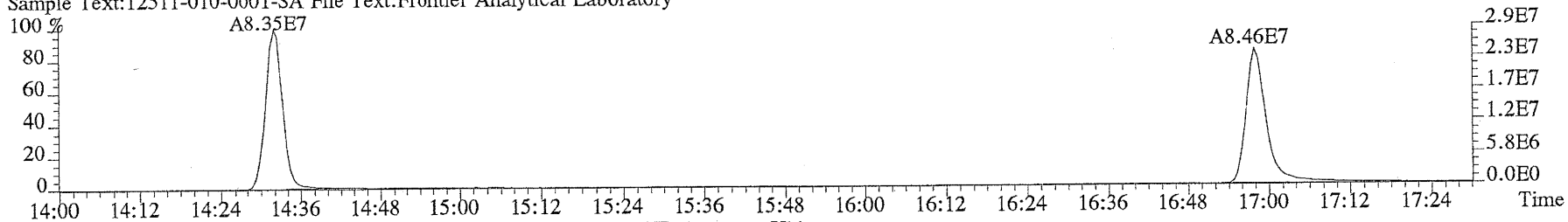
File:05AUG19Z #1-783 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



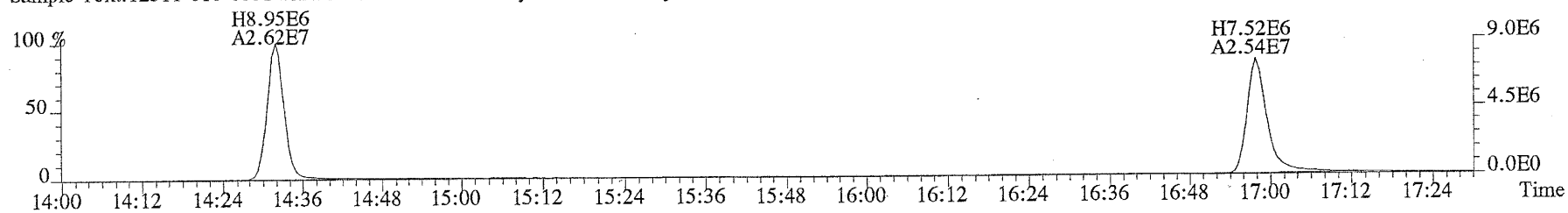
File:05AUG19Z #1-783 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



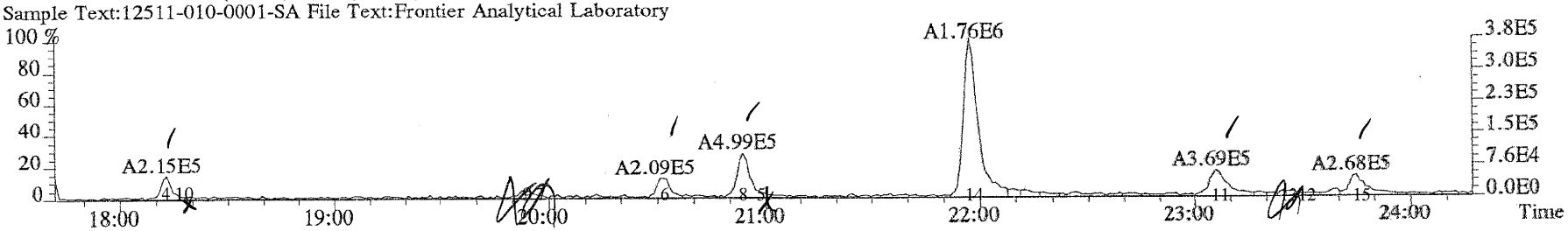
File:05AUG19Z #1-783 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



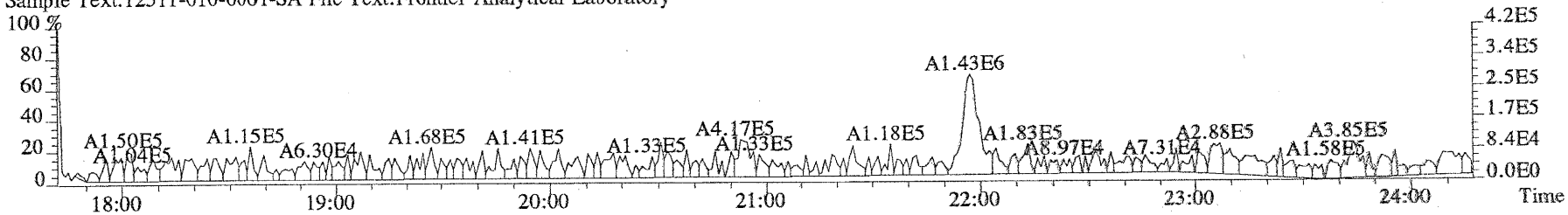
File:05AUG19Z #1-783 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



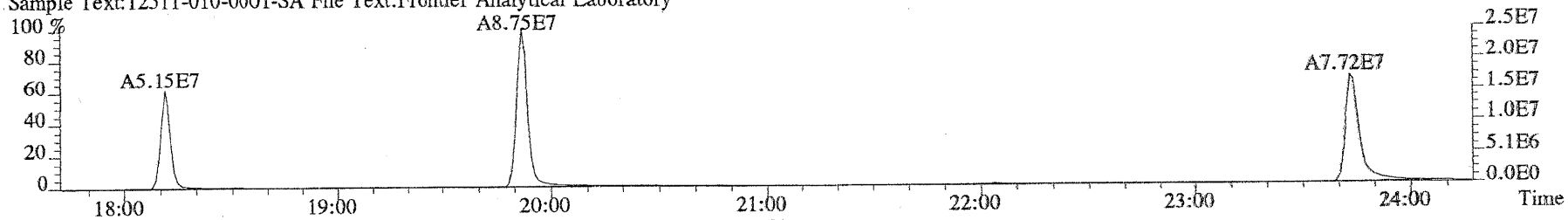
File:05AUG19Z #1-520 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



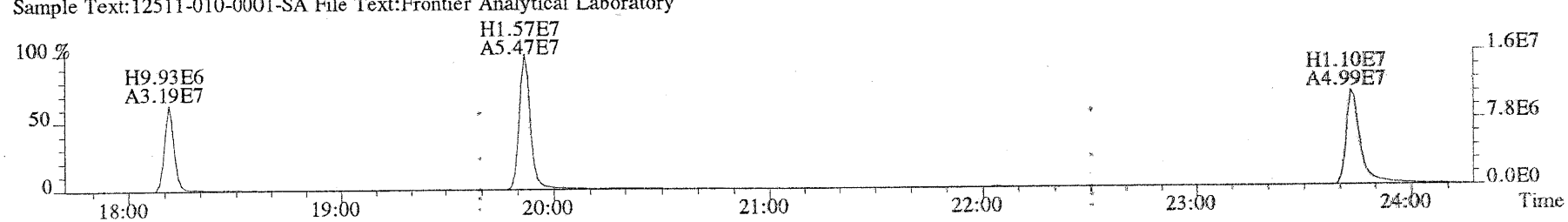
File:05AUG19Z #1-520 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



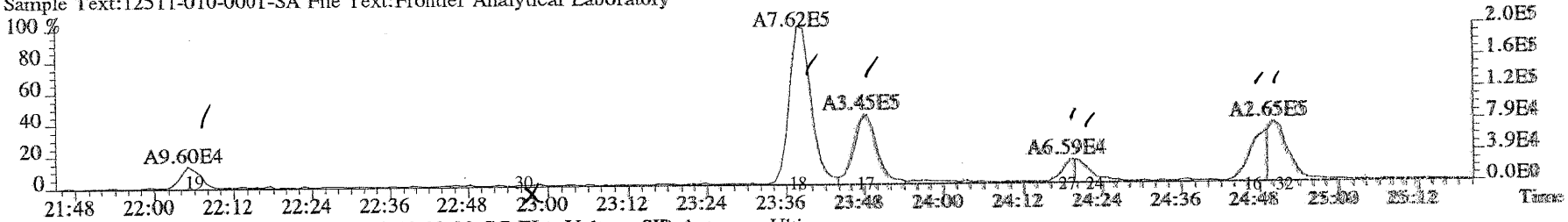
File:05AUG19Z #1-520 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



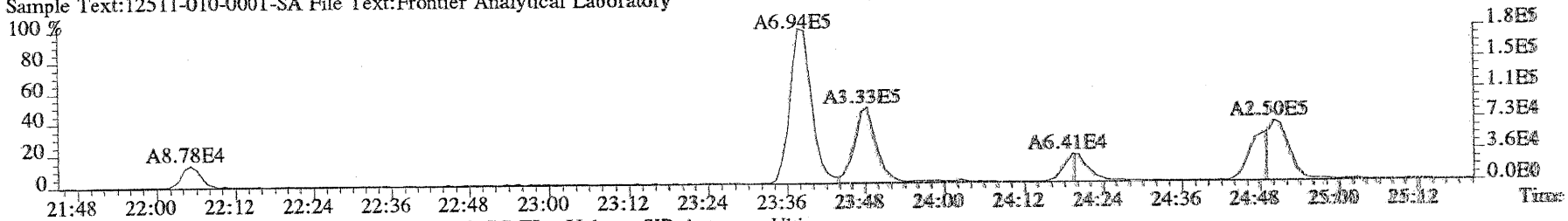
File:05AUG19Z #1-520 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



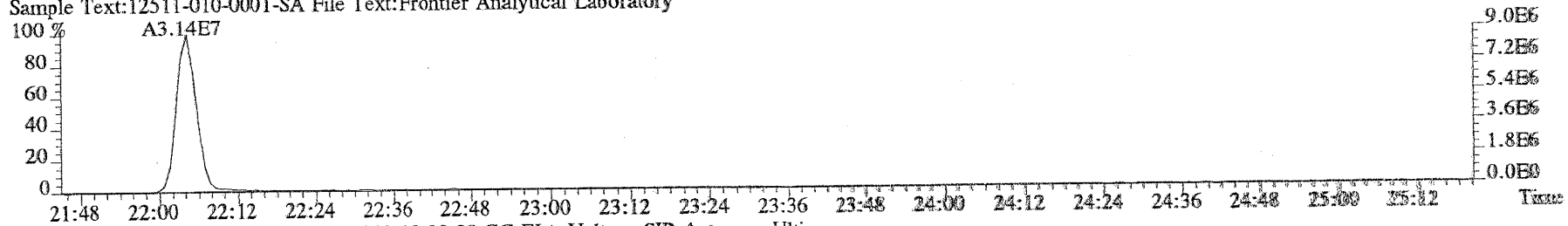
File:05AUG19Z #1-520 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



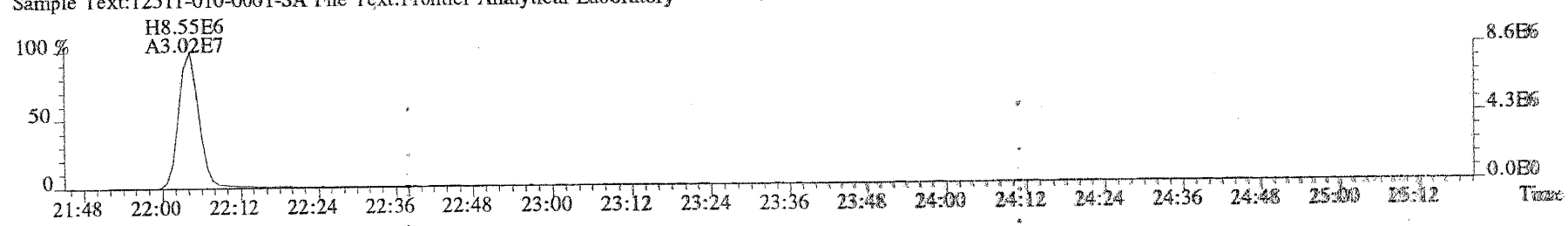
File:05AUG19Z #1-520 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



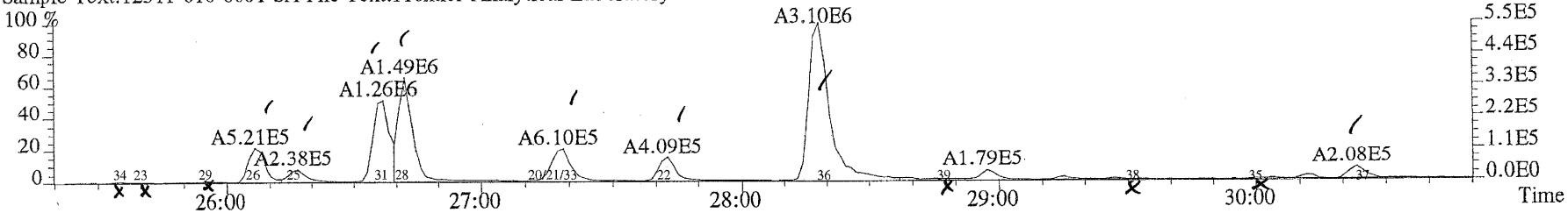
File:05AUG19Z #1-520 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



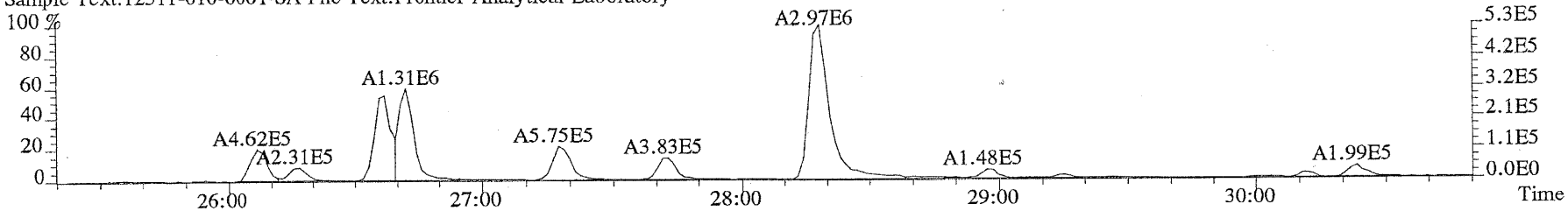
File:05AUG19Z #1-520 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



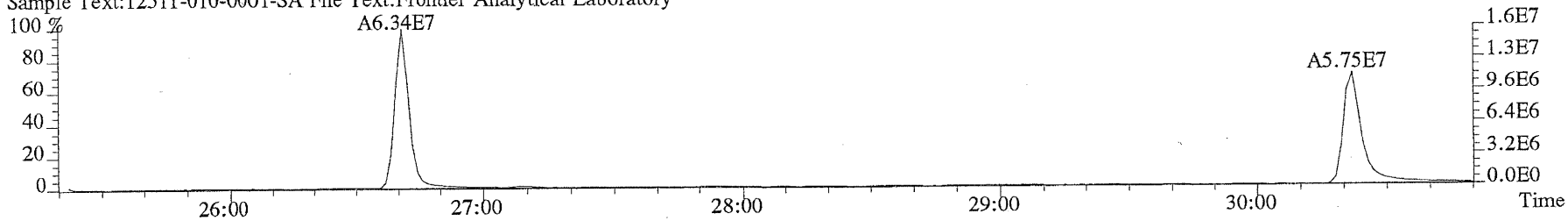
File:05AUG19Z #1-401 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



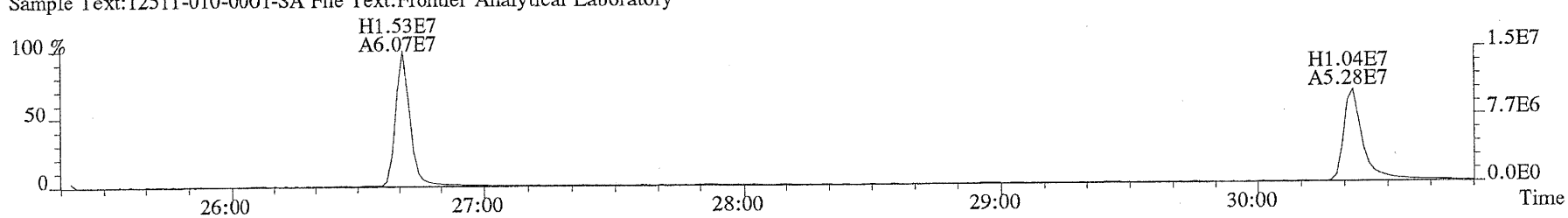
File:05AUG19Z #1-401 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



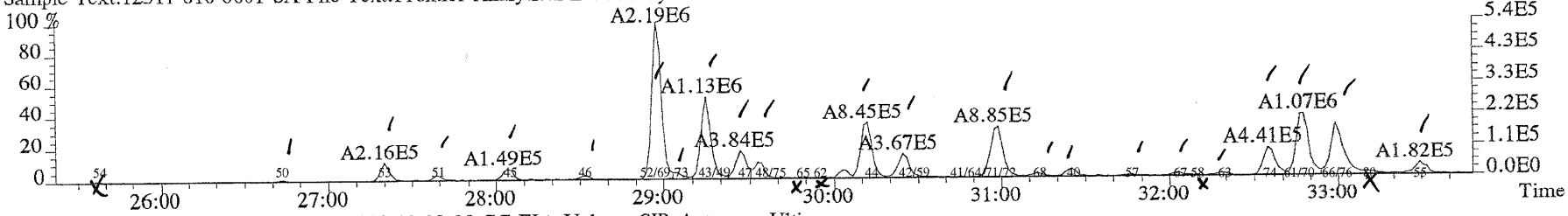
File:05AUG19Z #1-401 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



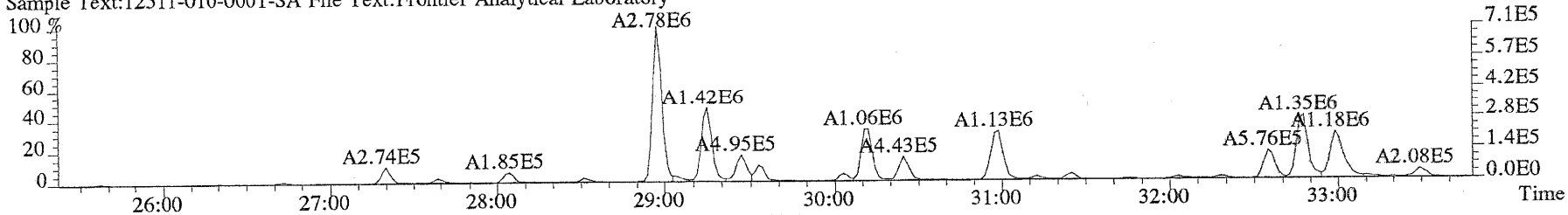
File:05AUG19Z #1-401 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
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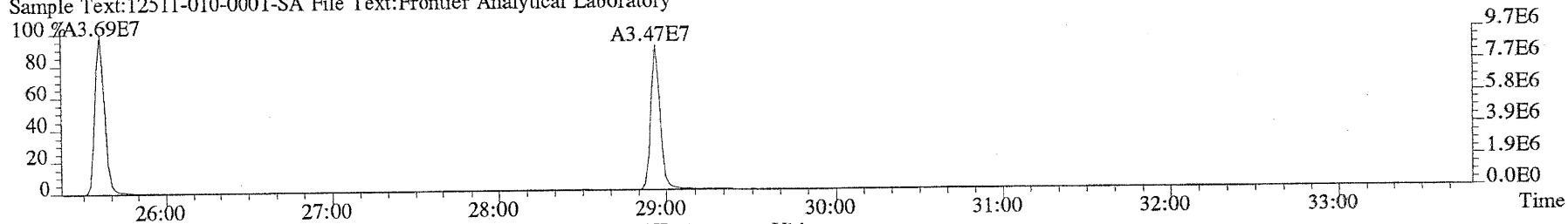
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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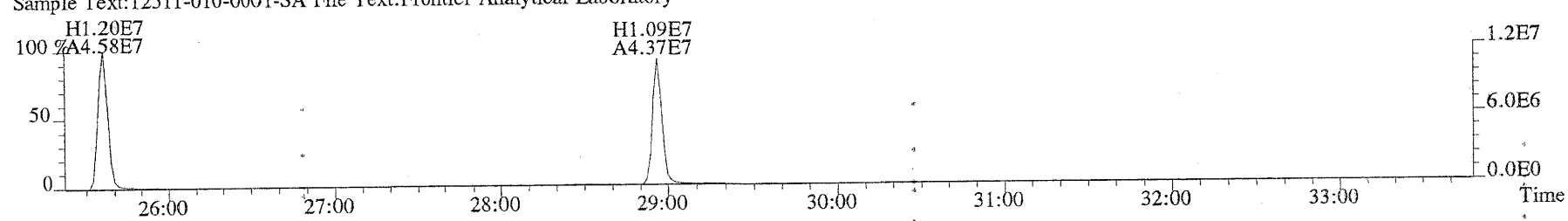
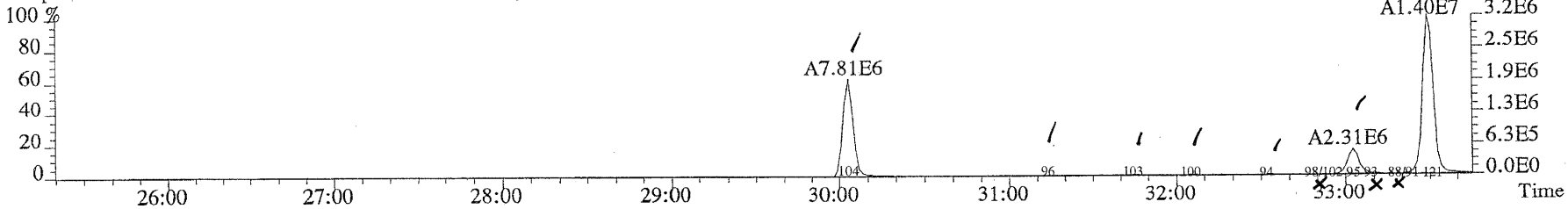
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 12:30:20 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:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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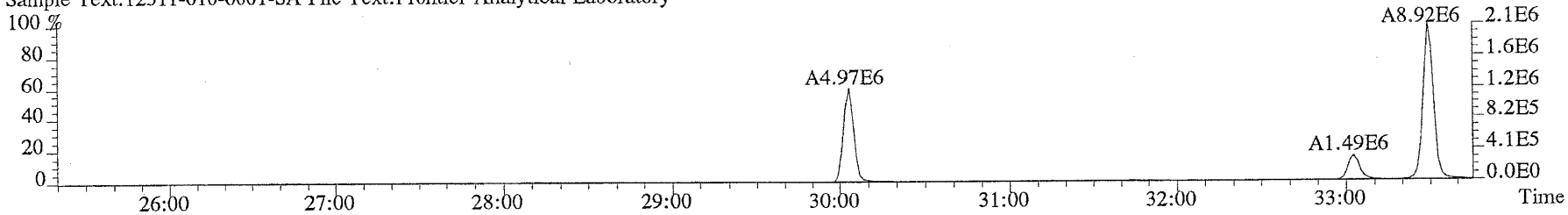

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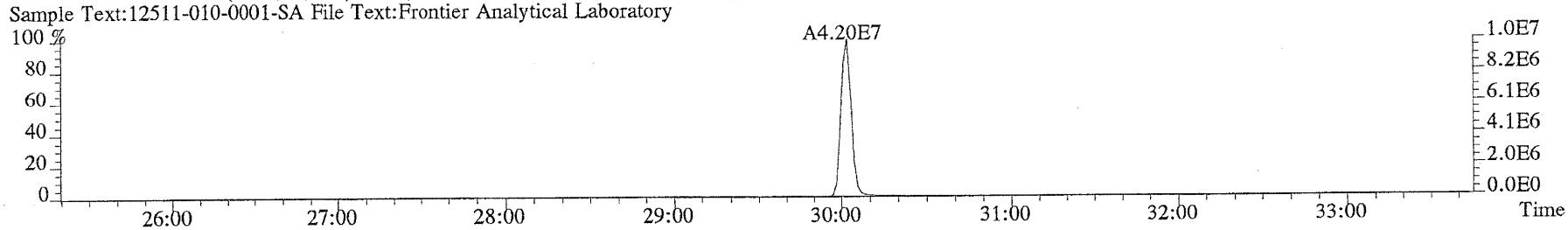
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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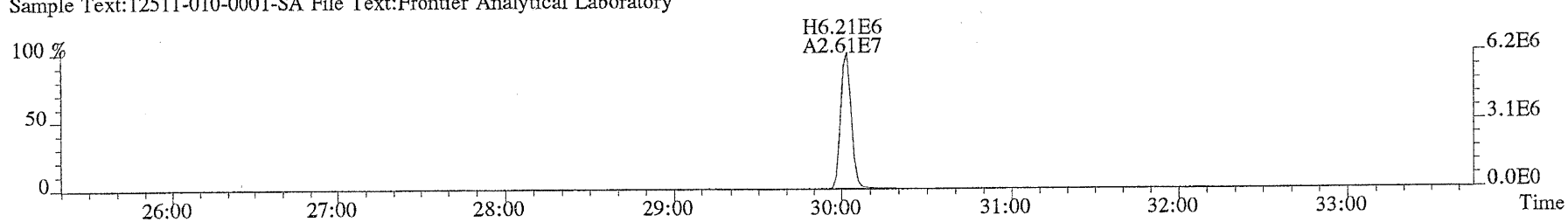
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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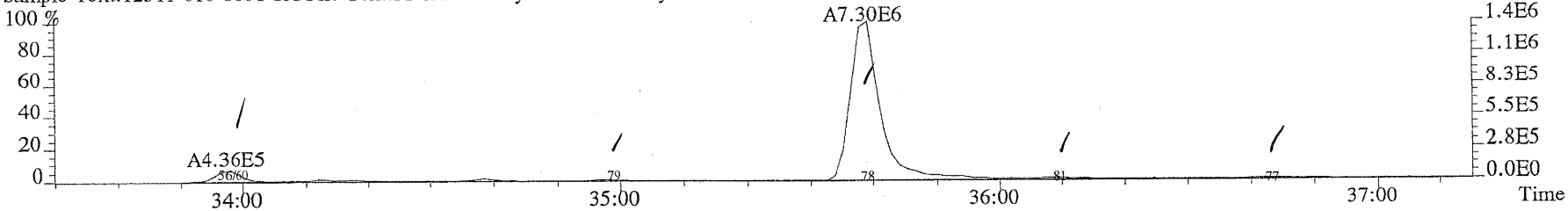

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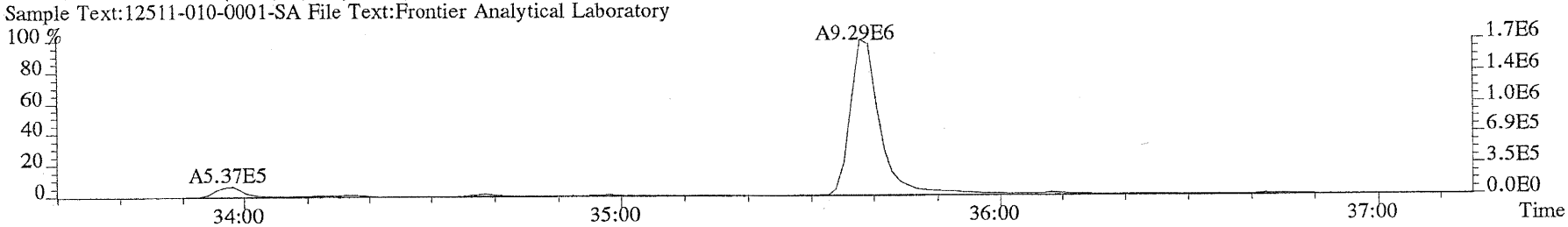
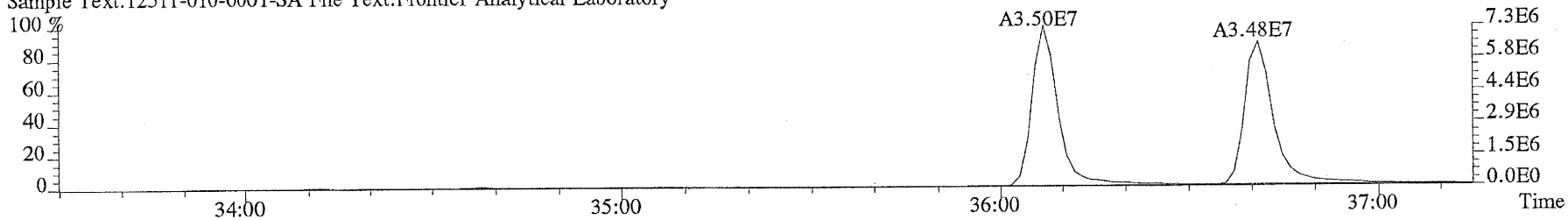


File:05AUG19Z #1-181 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-181 Acq: 5-AUG-2019 12:30:20 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
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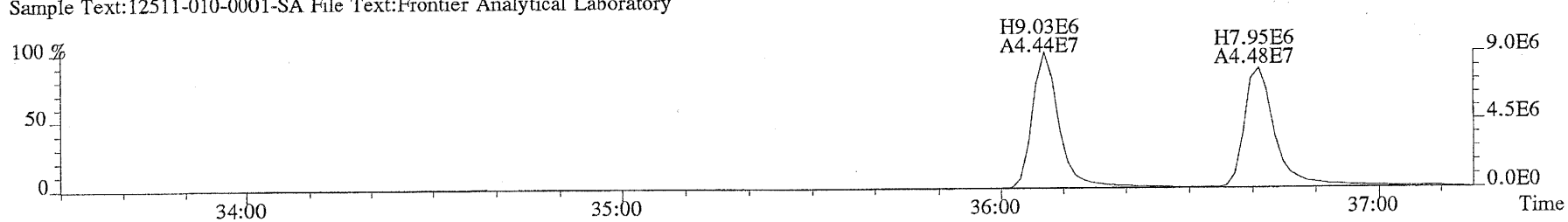

File:05AUG19Z #1-181 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
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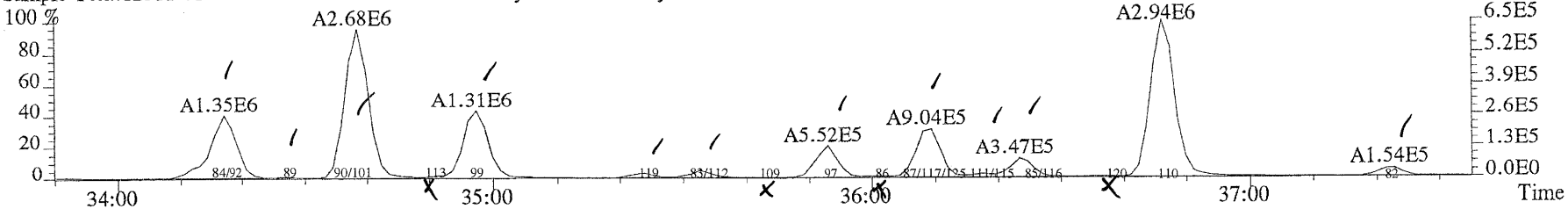
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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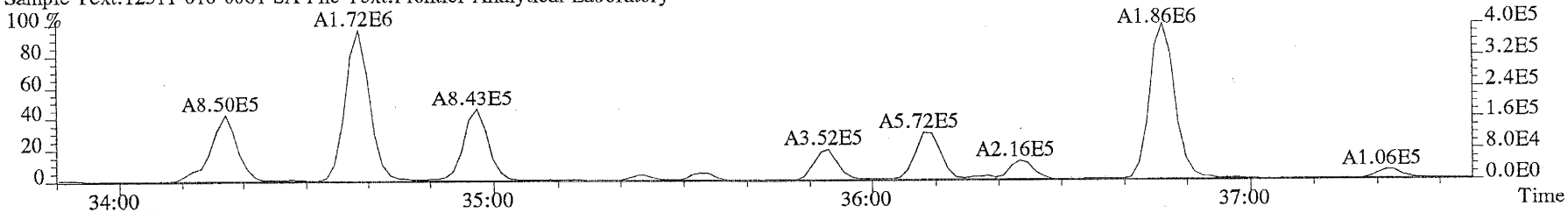
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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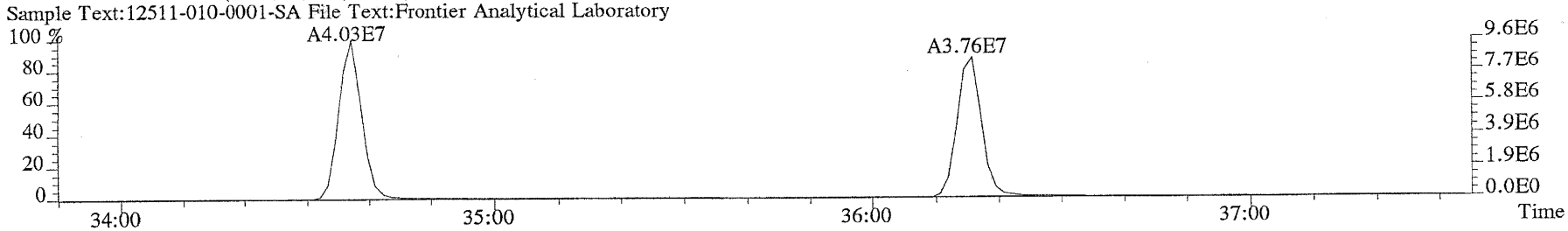
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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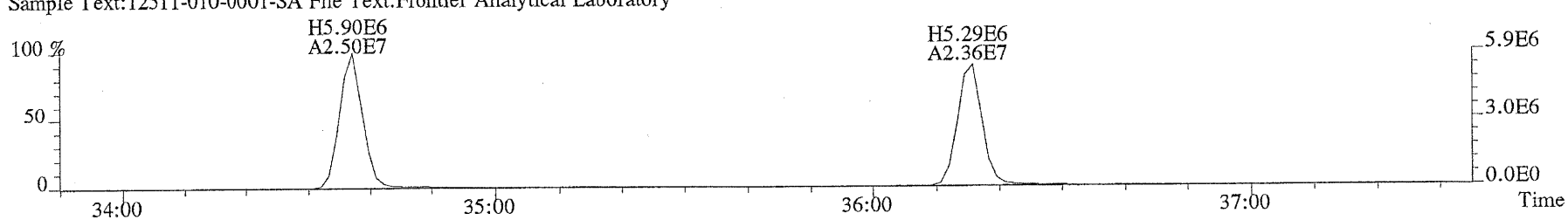

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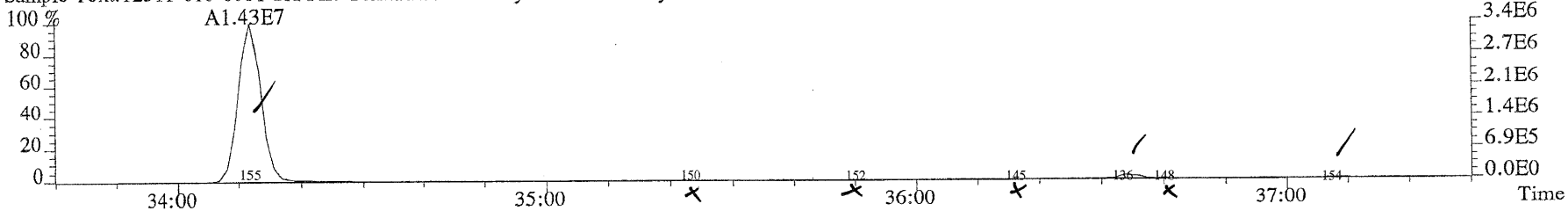
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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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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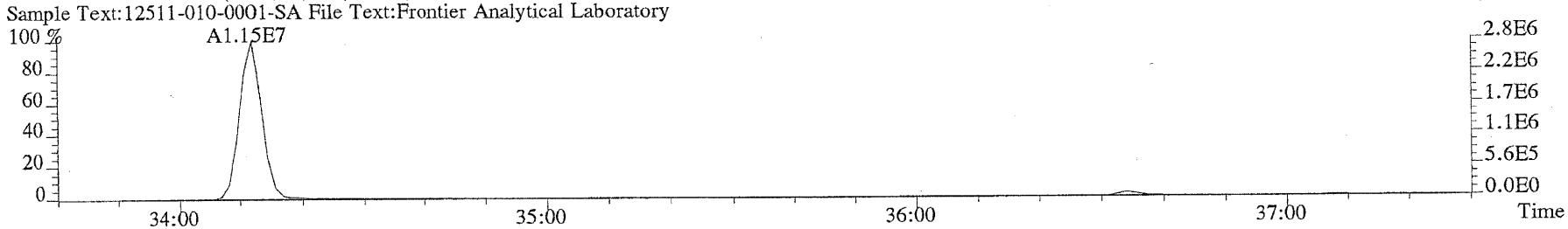

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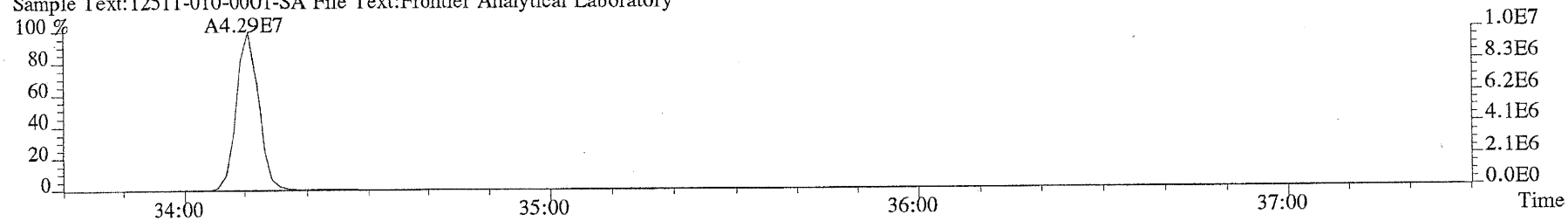
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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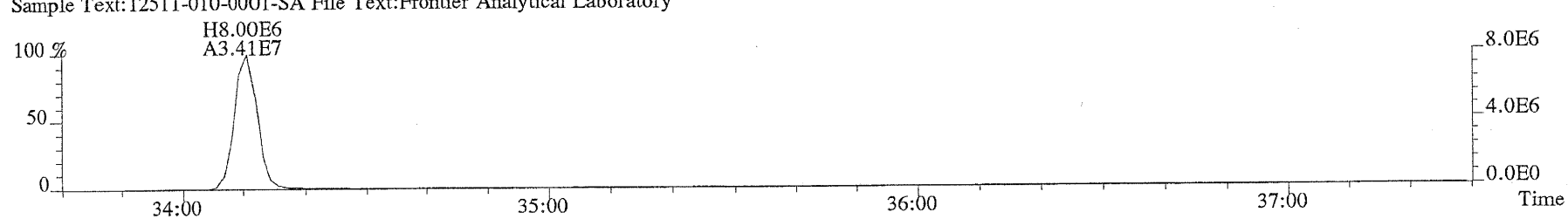
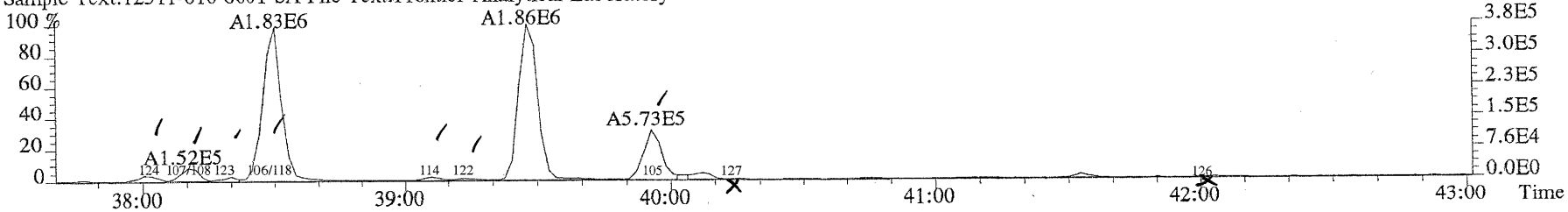
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-405 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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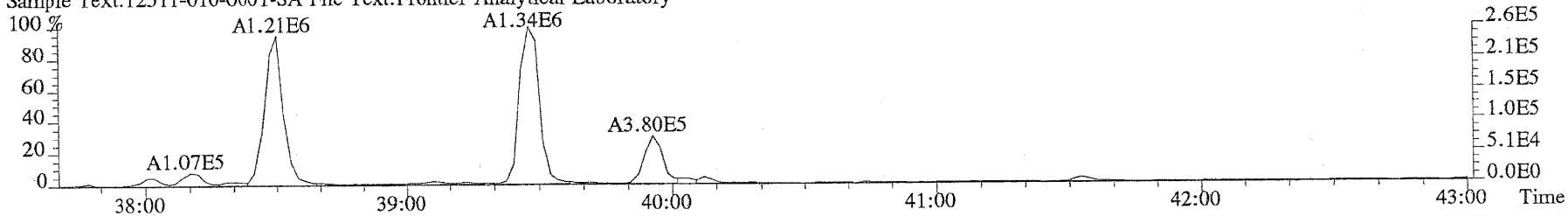

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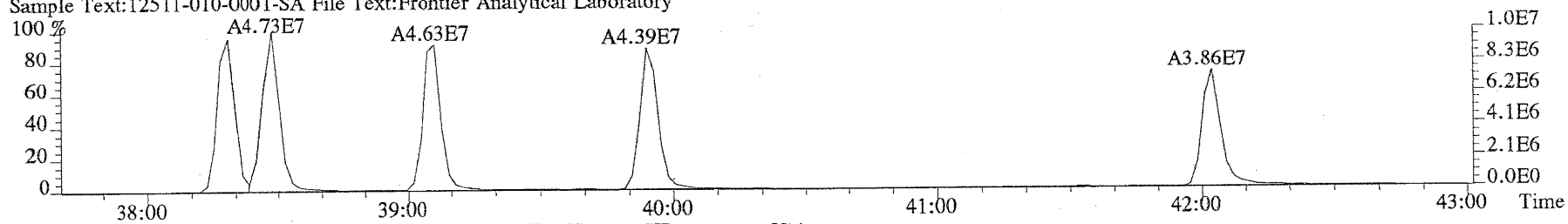
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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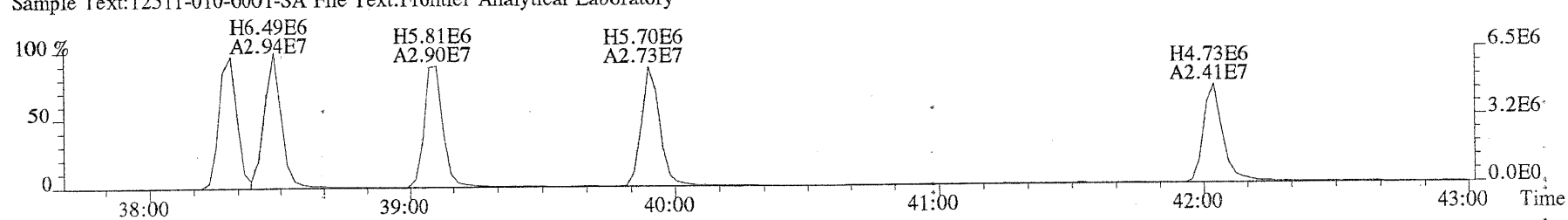
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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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
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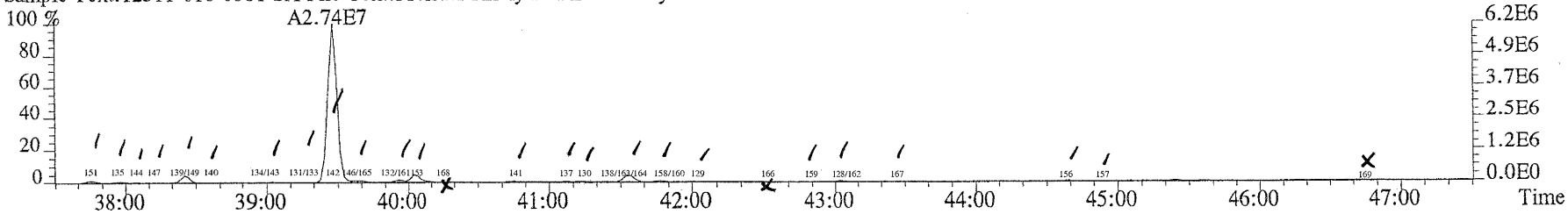

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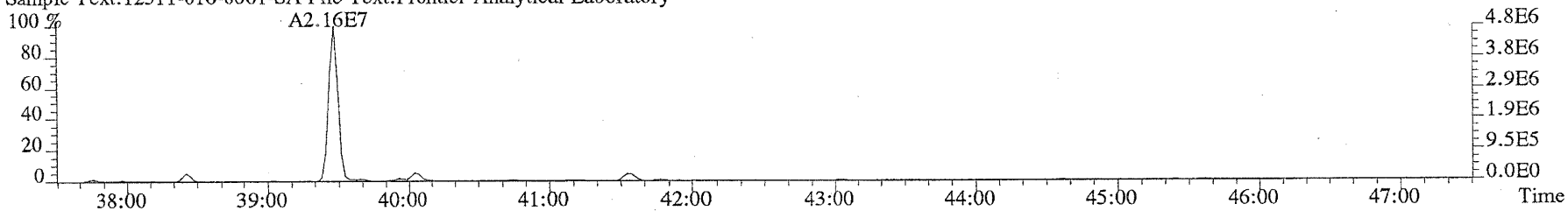
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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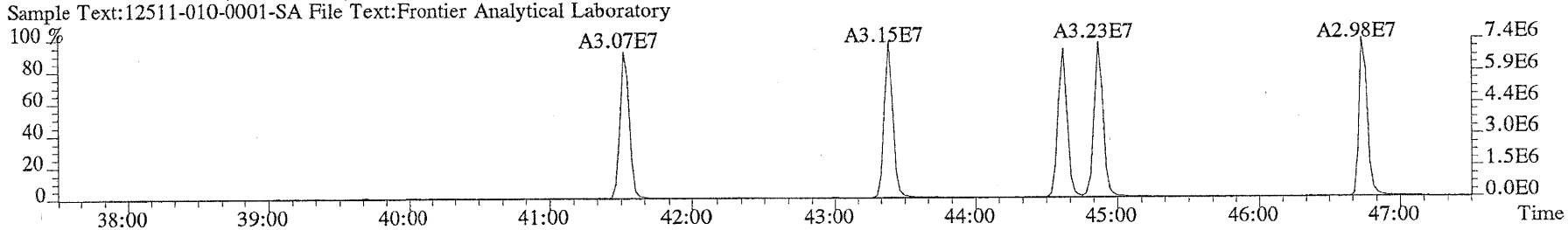
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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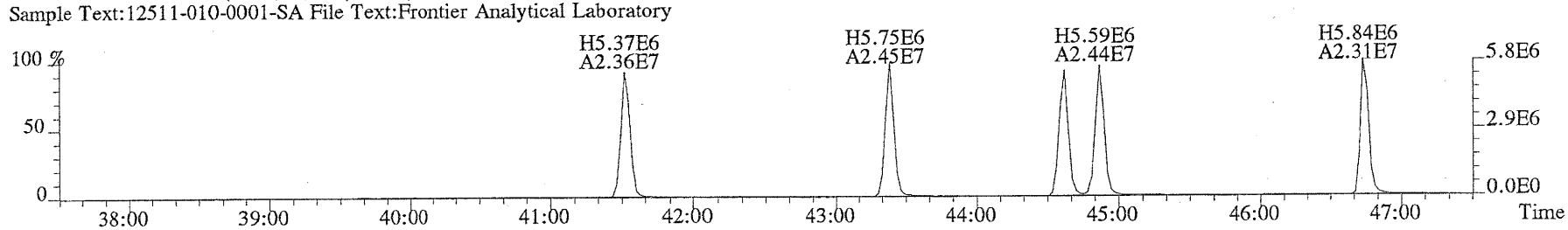
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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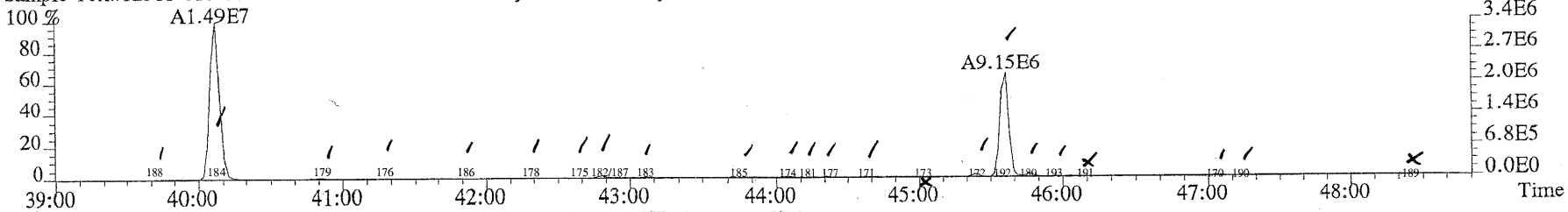
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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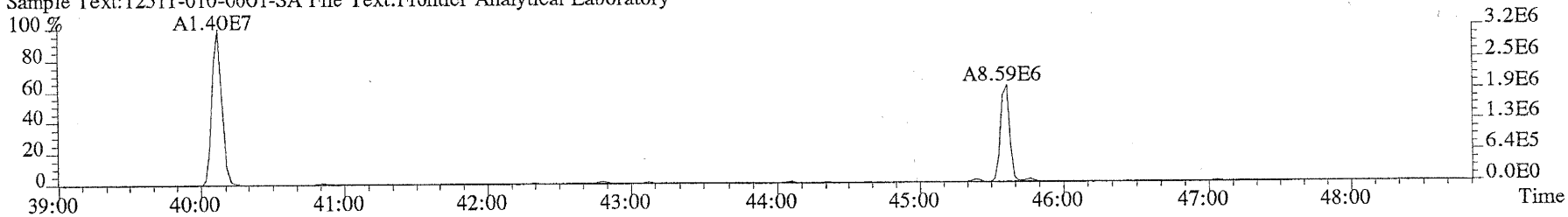
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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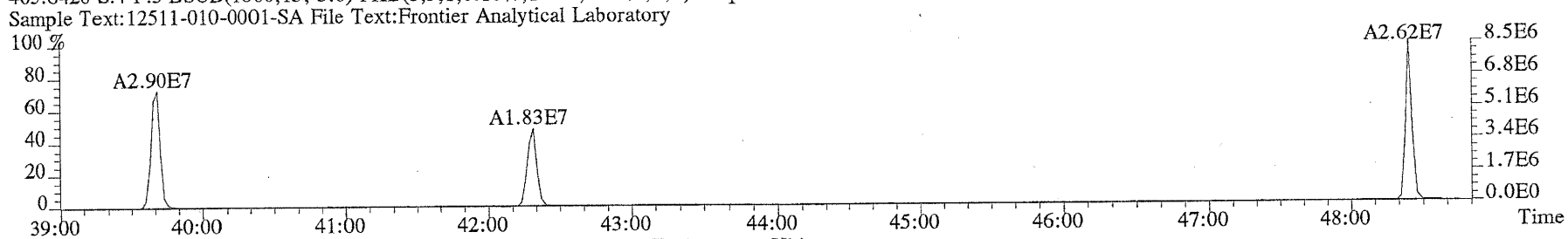
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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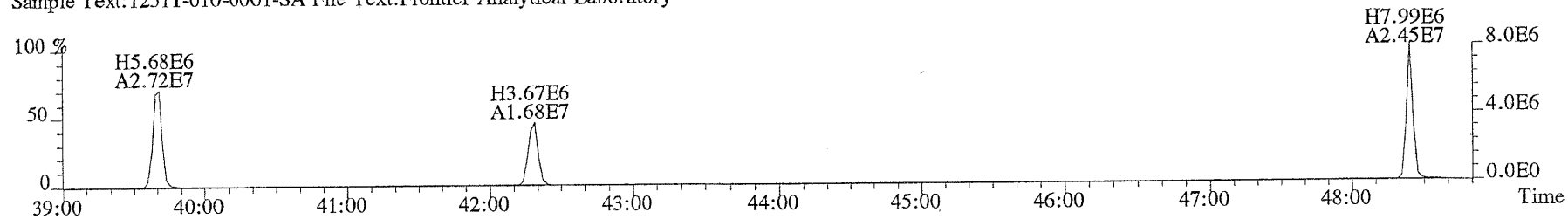
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



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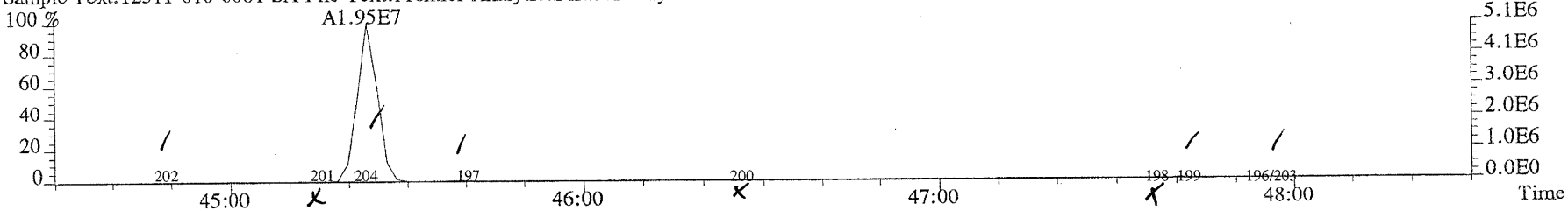
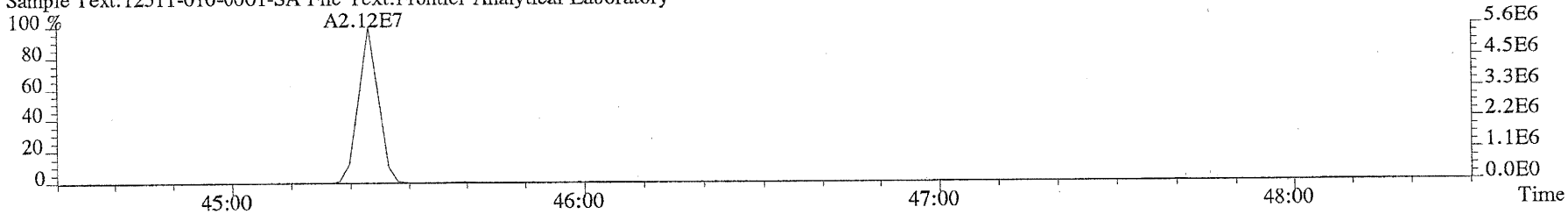
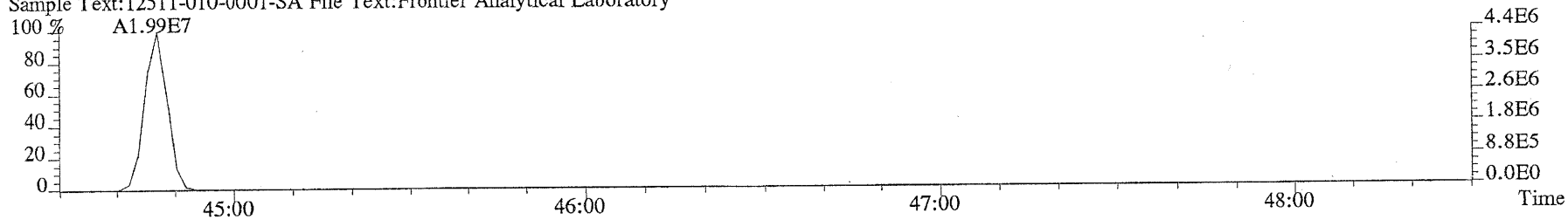


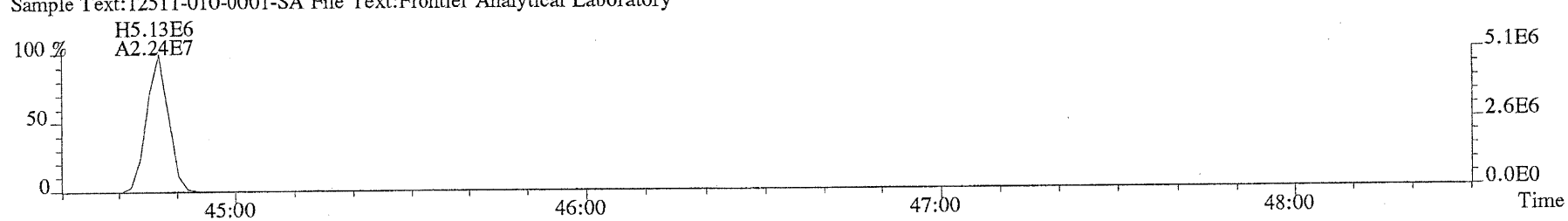
File:05AUG19Z #1-405 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



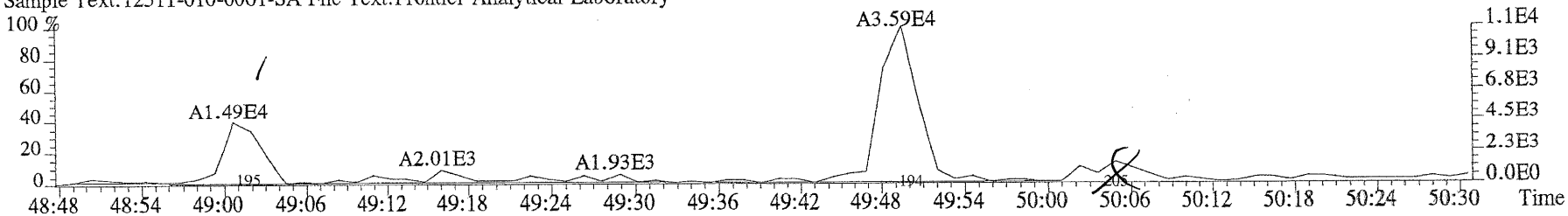
File:05AUG19Z #1-405 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



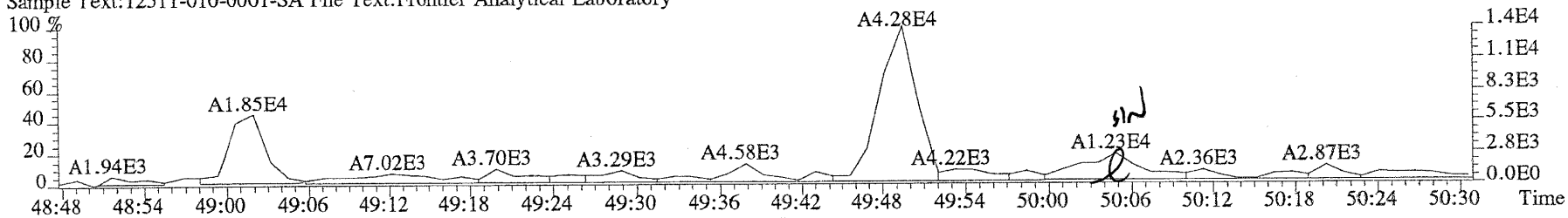
File:05AUG19Z #1-405 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



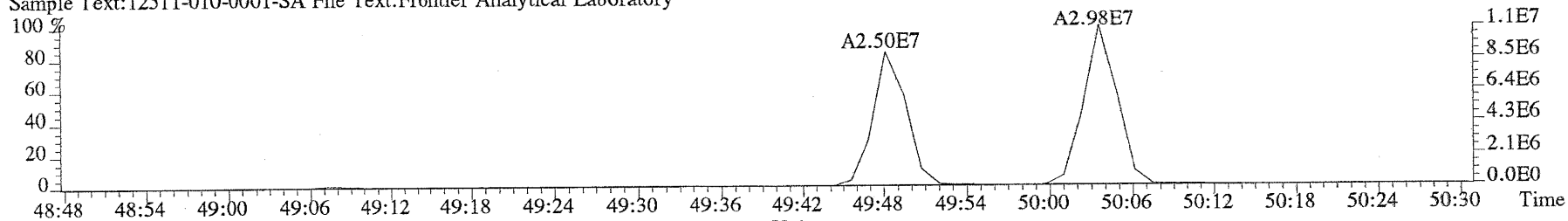
File:05AUG19Z #1-315 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



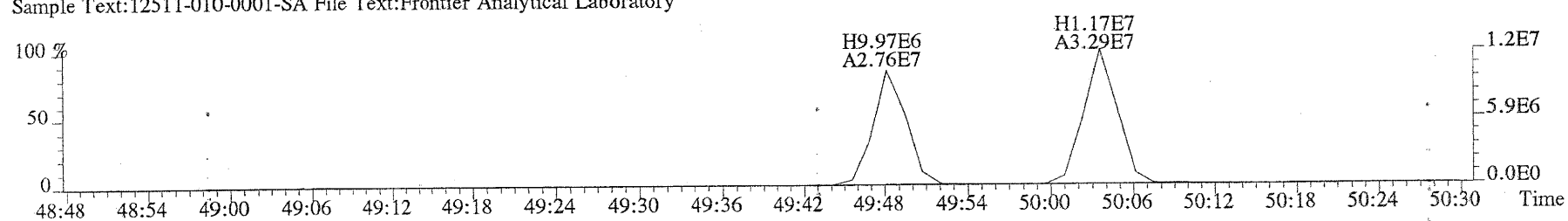
File:05AUG19Z #1-315 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



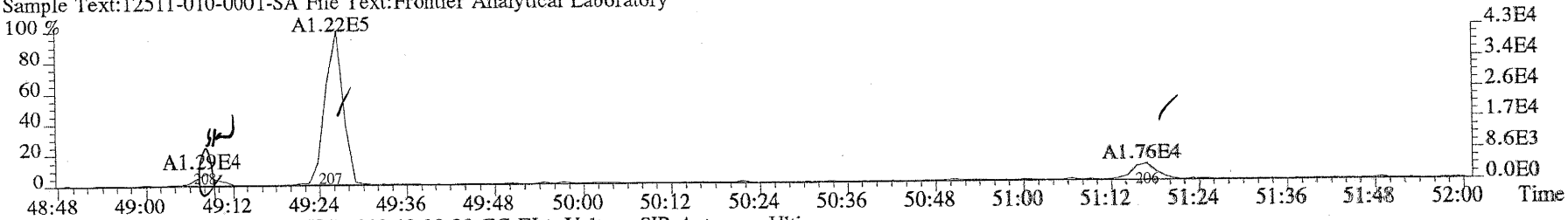
File:05AUG19Z #1-315 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



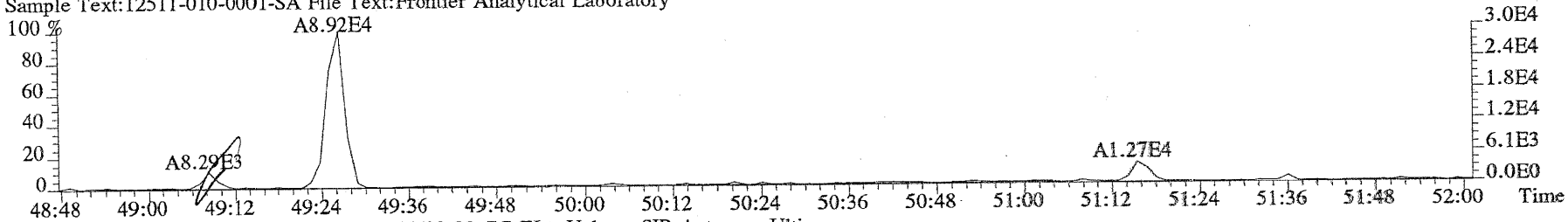
File:05AUG19Z #1-315 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



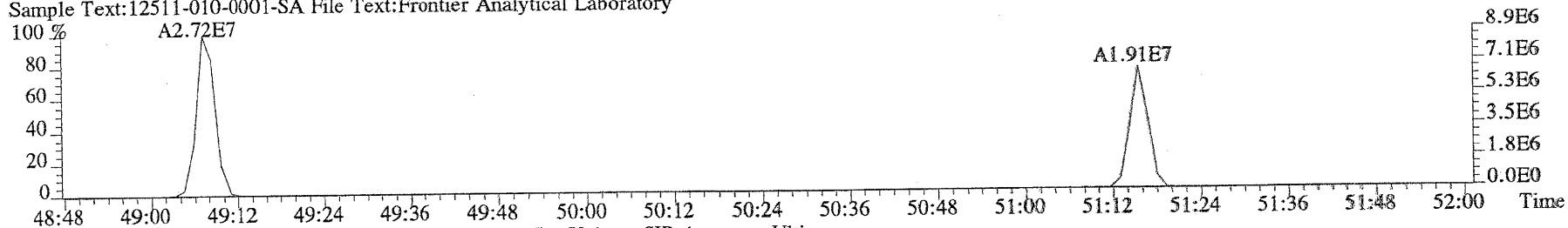
File:05AUG19Z #1-315 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



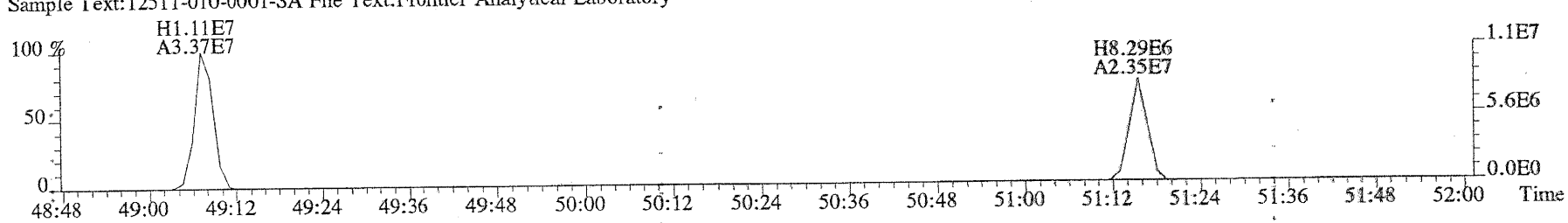
File:05AUG19Z #1-315 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%;F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



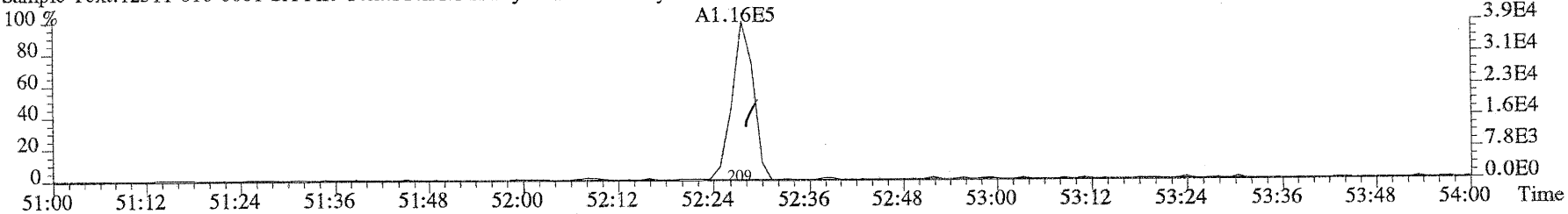
File:05AUG19Z #1-315 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



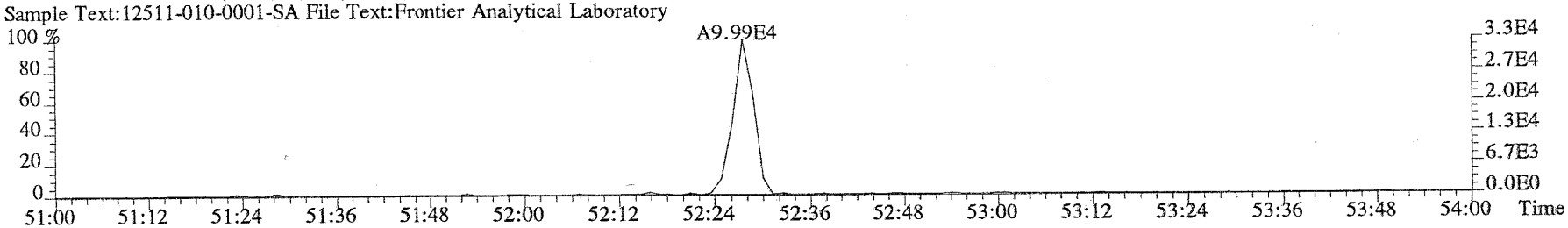
File:05AUG19Z #1-315 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



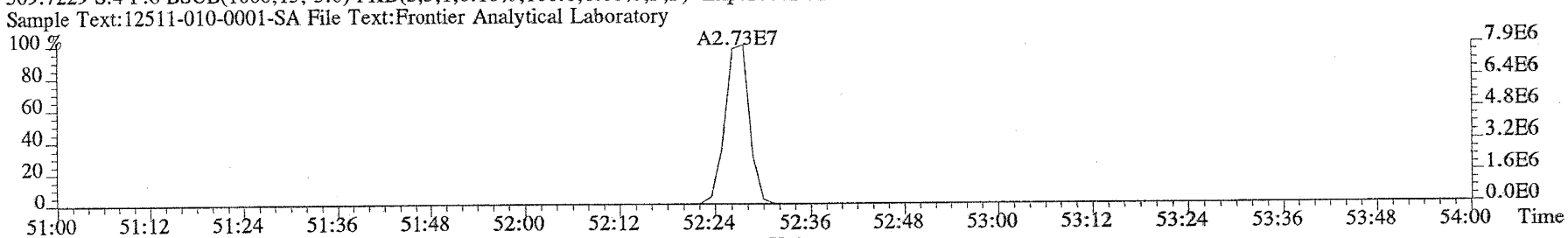
File:05AUG19Z #1-315 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



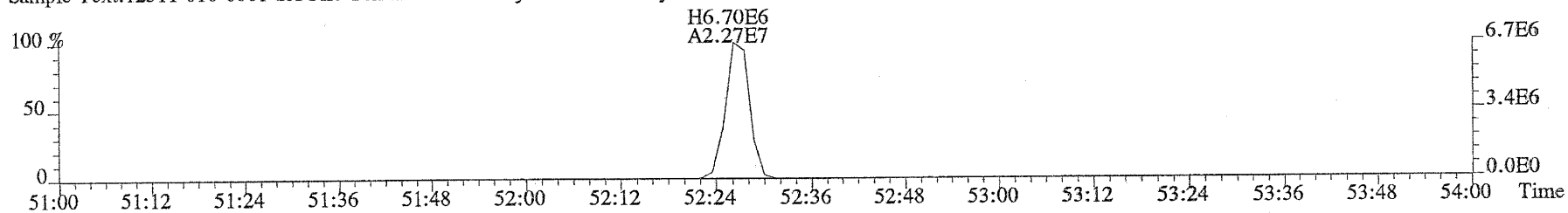
File:05AUG19Z #1-315 Acq: 5-AUG-2019 12:30:20 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-010-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 12:30:20 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:12511-010-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 12:30:20 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:12511-010-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12511-011-0001-SA Filename: 05AUG19Z Sam:5 Acquired: 5-AUG-19 13:28:45 ICal: DAILY209FAL4-8-5-19
Client ID: LDW-Y2-IN-ENR+AC-CB-SSWI 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	*	*	n	NotFnd	1.19	*		3430	2400	3.70	
13C-PCB-1	1.01e+08	3.21	y	14:32	0.92	8370					83.7
PCB-2	*	*	n	NotFnd	1.17	*		3430	2400	4.08	
PCB-3	*	*	n	NotFnd	1.22	*		3430	2400	4.26	
13C-PCB-3	9.78e+07	3.21	y	16:58	0.87	8580					85.8
PCB-4	3.59e+05	1.43	y	18:13	1.25	38.2		-	-	*	
PCB-10	*	*	n	NotFnd	1.30	*		844	7530	6.71	
13C-PCB-4	7.54e+07	1.60	y	18:11	0.71	8050					80.5
PCB-9	*	*	n	NotFnd	1.37	*		844	7530	6.39	
PCB-7	*	*	n	NotFnd	1.36	*		844	7530	6.40	
PCB-6	3.73e+05	1.44	y	20:31	1.59	24.2		-	-	*	
PCB-8	8.16e+05	1.43	y	20:54	1.33	63.5		-	-	*	
PCB-5	*	*	n	NotFnd	1.34	*		844	7530	6.50	
PCB-14	5.44e+06	1.45	y	21:57	1.30	433		-	-	*	
PCB-11	5.98e+05	1.50	y	23:05	1.18	52.6		-	-	*	
PCB-13	*	*	n	NotFnd	1.24	*		844	7530	7.05	
PCB-12	*	*	n	NotFnd	1.25	*		844	7530	7.00	
PCB-15	4.35e+05	1.51	y	23:45	1.12	33.0		-	-	*	
13C-PCB-15	1.18e+08	1.63	y	23:43	0.95	9400					94.0
PCB-19	1.87e+05	1.18	y	22:05	1.19	28.1		-	-	*	
PCB-30	*	*	n	NotFnd	1.71	*		1900	592	2.35	
PCB-18	1.47e+06	1.05	y	23:38	1.13	233		-	-	*	
PCB-17	6.84e+05	1.10	y	23:49	1.27	96.2		-	-	*	
PCB-27	1.35e+05	1.10	y	24:19	1.58	15.2	J	-	-	*	
PCB-24	1.35e+05	1.14	y	24:20	1.67	14.5	J	-	-	*	
PCB-16	5.24e+05	1.04	y	24:49	1.24	75.8		-	-	*	
PCB-32	3.63e+05	1.01	y	24:51	1.60	40.6		-	-	*	
13C-PCB-19	5.59e+07	1.05	y	22:04	0.50	8470					84.7
13C-PCB-9	1.32e+08	1.60	y	19:52	-	77.6					
PCB-34	*	*	n	NotFnd	1.28	*		4810	3720	8.57	
PCB-23	*	*	n	NotFnd	1.28	*		4810	3720	8.53	
PCB-29	*	*	n	NotFnd	1.29	*		4810	3720	8.48	
PCB-26	1.08e+06	1.01	y	26:07	1.26	83.2		-	-	*	
PCB-25	5.15e+05	1.11	y	26:17	1.26	39.8		-	-	*	
PCB-31	2.34e+06	1.01	y	26:37	1.26	181		-	-	*	
PCB-28	2.66e+06	1.05	y	26:42	1.55	167		-	-	*	
PCB-20	1.10e+06	1.12	y	27:19	1.25	85.9		-	-	*	Co-elute PCB 21/33
PCB-21	1.10e+06	1.12	y	27:19	1.25	85.9		-	-	*	Co-elute PCB 20/33
PCB-33	1.10e+06	1.12	y	27:19	1.25	85.9		-	-	*	Co-elute PCB 20/21
PCB-22	7.08e+05	1.03	y	27:43	1.38	50.0		-	-	*	
PCB-36	8.32e+06	1.03	y	28:18	1.23	660		-	-	*	
PCB-39	*	*	n	NotFnd	1.23	*		4810	3720	8.93	
PCB-38	*	*	n	NotFnd	1.26	*		4810	3720	8.70	
PCB-35	*	*	n	NotFnd	1.11	*		4810	3720	9.87	
PCB-37	3.67e+05	0.96	y	30:24	1.16	30.8		-	-	*	
13C-PCB-37	1.03e+08	1.08	y	30:22	1.52	9270					92.7

PCB-54	*	*	n	NotFnd	1.23	*		928	1070	2.14	
PCB-50	5.39e+04	0.71	y	26:45	0.93	7.58	J	-	-	*	
PCB-53	4.43e+05	0.74	y	27:20	0.91	64.1		-	-	*	
PCB-51	1.36e+05	0.78	y	27:39	0.92	19.3	J	-	-	*	
PCB-45	3.08e+05	0.87	y	28:04	0.78	52.0		-	-	*	
PCB-46	9.77e+04	0.88	y	28:32	0.74	17.3	J	-	-	*	
PCB-52	4.62e+06	0.82	y	28:58	0.89	681		-	-	*	Co-elute PCB 69
PCB-69	4.62e+06	0.82	y	28:58	0.89	681		-	-	*	Co-elute PCB 52
PCB-73	1.79e+05	0.70	y	29:04	1.15	20.4		-	-	*	
PCB-43	2.37e+06	0.81	y	29:15	0.79	393		-	-	*	Co-elute PCB 49
PCB-49	2.37e+06	0.81	y	29:15	0.79	393		-	-	*	Co-elute PCB 43
PCB-47	8.12e+05	0.77	y	29:27	0.87	122		-	-	*	
PCB-48	4.64e+05	0.74	y	29:33	1.00	60.8		-	-	*	Co-elute PCB 75
PCB-75	4.64e+05	0.74	y	29:33	1.00	60.8		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*		928	1070	2.62	
PCB-62	*	*	n	NotFnd	1.07	*		928	1070	2.45	
PCB-44	1.81e+06	0.81	y	30:12	0.68	348		-	-	*	
PCB-42	7.16e+05	0.85	y	30:25	0.90	104		-	-	*	Co-elute PCB 59
PCB-59	7.16e+05	0.85	y	30:25	0.90	104		-	-	*	Co-elute PCB 42
PCB-72	1.81e+06	0.80	y	30:58	0.99	241		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.81e+06	0.80	y	30:58	0.99	241		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.81e+06	0.80	y	30:58	0.99	241		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.81e+06	0.80	y	30:58	0.99	241		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.20e+05	0.84	y	31:13	1.12	14.0	J	-	-	*	
PCB-40	2.27e+05	0.71	y	31:24	0.63	47.1		-	-	*	
PCB-57	3.49e+04	0.88	y	31:46	1.03	4.46	J	-	-	*	
PCB-67	7.14e+04	0.80	y	32:03	0.95	9.83	J	-	-	*	
PCB-58	2.74e+04	0.83	y	32:07	1.11	3.24	J	-	-	*	
PCB-63	8.98e+04	0.82	y	32:19	1.02	11.6	J	-	-	*	
PCB-74	8.61e+05	0.80	y	32:35	0.99	114		-	-	*	
PCB-61	2.19e+06	0.79	y	32:46	0.95	301		-	-	*	Co-elute PCB 70
PCB-70	2.19e+06	0.79	y	32:46	0.95	301		-	-	*	Co-elute PCB 61
PCB-76	1.98e+06	0.75	y	32:59	1.06	245		-	-	*	Co-elute PCB 66
PCB-66	1.98e+06	0.75	y	32:59	1.06	245		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.20	*		928	1070	2.18	
PCB-55	4.39e+05	0.87	y	33:29	1.04	55.1		-	-	*	
13C-PCB-54	7.63e+07	0.81	y	25:37	1.36	7680					76.8
PCB-104	1.45e+07	1.54	y	30:03	1.10	2060		-	-	*	
PCB-96	4.20e+04	1.61	y	31:14	1.03	6.32	J	-	-	*	
PCB-103	5.89e+04	1.58	y	31:44	0.81	11.2	J	-	-	*	
PCB-100	5.62e+04	1.55	y	32:05	0.81	10.7	J	-	-	*	
PCB-94	1.92e+04	1.52	y	32:32	0.67	4.47	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.68	*		348	336	1.70	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.68	*		348	336	1.70	Co-elute PCB 98
PCB-95	3.30e+06	1.58	y	33:03	0.78	661		-	-	*	
PCB-93	*	*	n	NotFnd	0.73	*		348	336	1.57	
PCB-88	*	*	n	NotFnd	0.76	*		348	336	1.52	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.76	*		348	336	1.52	Co-elute PCB 88
PCB-121	2.55e+07	1.55	y	33:29	0.94	4210		-	-	*	
13C-PCB-104	6.43e+07	1.60	y	30:02	1.05	8430					84.3
13C-PCB-28	1.26e+08	1.04	y	26:41	1.82	9480					94.8
13C-PCB-52	7.29e+07	0.81	y	28:56	-	89.8					

PCB-56	8.82e+05	0.75	y	33:57	1.14	96.7		-	-	*	Co-elute PCB 60
PCB-60	8.82e+05	0.75	y	33:57	1.14	96.7		-	-	*	Co-elute PCB 56
PCB-79	6.97e+04	0.76	y	34:58	1.22	7.15	J	-	-	*	
PCB-78	2.01e+07	0.79	y	35:38	1.17	2160		-	-	*	
PCB-81	1.46e+05	0.78	y	36:08	1.29	14.2	J	-	-	*	
13C-PCB-81	7.95e+07	0.80	y	36:07	1.32	9630					96.3
PCB-77	1.81e+05	0.82	y	36:43	1.11	20.3		-	-	*	
13C-PCB-77	8.01e+07	0.78	y	36:41	1.39	9250					92.5
PCB-155	2.77e+07	1.25	y	34:12	1.03	3760		-	-	*	
PCB-150	*	*	n	NotFnd	0.96	*		500	644	1.78	
PCB-152	*	*	n	NotFnd	0.95	*		500	644	1.80	
PCB-145	*	*	n	NotFnd	0.90	*		500	644	1.91	
PCB-136	5.01e+05	1.20	y	36:35	0.97	72.1		-	-	*	
PCB-148	*	*	n	NotFnd	0.60	*		500	644	2.87	
PCB-154	1.08e+05	1.13	y	37:08	0.78	19.2	J	-	-	*	
13C-PCB-155	7.14e+07	1.29	y	34:11	1.43	8000					80.0
13C-PCB-111	6.60e+07	1.60	y	36:15	1.12	9480					94.8
13C-PCB-101	6.24e+07	1.61	y	34:37	-	99.8					
PCB-84	1.86e+06	1.60	y	34:17	0.86	292		-	-	*	Co-elute PCB 92
PCB-92	1.86e+06	1.60	y	34:17	0.86	292		-	-	*	Co-elute PCB 84
PCB-89	4.19e+04	1.45	y	34:27	0.88	6.37	J	-	-	*	
PCB-90	3.53e+06	1.55	y	34:39	0.89	533		-	-	*	Co-elute PCB 101
PCB-101	3.53e+06	1.55	y	34:39	0.89	533		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.06	*		1280	1060	3.52	
PCB-99	1.74e+06	1.56	y	34:58	0.97	241		-	-	*	
PCB-119	1.25e+05	1.56	y	35:23	1.07	15.7	J	-	-	*	
PCB-83	1.78e+05	1.50	y	35:33	0.87	27.3		-	-	*	Co-elute PCB 112
PCB-112	1.78e+05	1.50	y	35:33	0.87	27.3		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.01	*		1280	1060	3.67	
PCB-97	8.43e+05	1.58	y	35:52	0.68	167		-	-	*	
PCB-86	*	*	n	NotFnd	0.77	*		1280	1060	4.81	
PCB-125	1.26e+06	1.49	y	36:10	0.90	189		-	-	*	Co-elute PCB 87/117
PCB-87	1.26e+06	1.49	y	36:10	0.90	189		-	-	*	Co-elute PCB 125/117
PCB-117	1.26e+06	1.49	y	36:10	0.90	189		-	-	*	Co-elute PCB 125/87
PCB-111	8.41e+04	1.67	y	36:17	1.04	10.9	J	-	-	*	Co-elute PCB 115
PCB-115	8.41e+04	1.67	y	36:17	1.04	10.9	J	-	-	*	Co-elute PCB 111
PCB-85	4.89e+05	1.56	y	36:24	0.85	77.0		-	-	*	Co-elute PCB 116
PCB-116	4.89e+05	1.56	y	36:24	0.85	77.0		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.04	*		1280	1060	3.59	
PCB-110	4.20e+06	1.56	y	36:46	0.99	570		-	-	*	
PCB-82	2.24e+05	1.55	y	37:23	0.57	52.9		-	-	*	
PCB-124	1.15e+05	1.62	y	38:02	1.12	13.7	J	-	-	*	
PCB-108	2.29e+05	1.52	y	38:10	1.10	27.9		-	-	*	Co-elute PCB 107
PCB-107	2.29e+05	1.52	y	38:10	1.10	27.9		-	-	*	Co-elute PCB 108
PCB-123	6.33e+04	1.38	y	38:19	1.03	8.44	J	-	-	*	
13C-PCB-123	7.27e+07	1.59	y	38:19	1.30	9880					98.8
PCB-118	2.56e+06	1.53	y	38:30	1.06	313		-	-	*	Co-elute PCB 106
PCB-106	2.56e+06	1.53	y	38:30	1.06	313		-	-	*	Co-elute PCB 118
13C-PCB-118	7.72e+07	1.59	y	38:29	1.44	9510					95.1
PCB-114	7.21e+04	1.47	y	39:06	1.19	8.08	J	-	-	*	
13C-PCB-114	7.51e+07	1.61	y	39:05	1.33	9980					99.8
PCB-122	4.30e+04	1.42	y	39:13	1.06	5.42	J	-	-	*	
PCB-105	8.14e+05	1.66	y	39:56	1.11	101		-	-	*	
13C-PCB-105	7.26e+07	1.56	y	39:54	1.36	9420					94.2

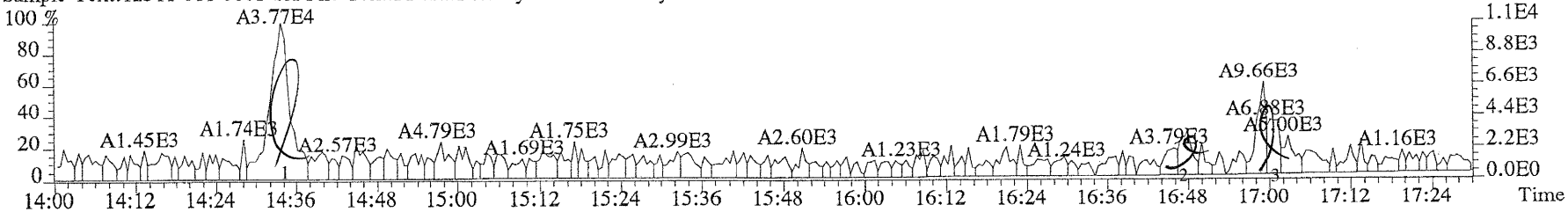
PCB-127	*	*	n	NotFnd	1.03	*		864	810	2.58	
PCB-126	*	*	n	NotFnd	1.08	*		864	810	2.98	
13C-PCB-126	6.59e+07	1.62	y	42:03	1.24	9380					93.8
PCB-151	4.56e+05	1.28	y	37:46	0.84	92.4		-	-	*	
PCB-135	3.10e+05	1.08	y	37:57	0.91	58.0		-	-	*	
PCB-144	1.15e+05	1.17	y	38:02	0.96	20.4		-	-	*	
PCB-147	7.49e+04	1.32	y	38:12	1.00	12.8	J	-	-	*	
PCB-139	1.97e+06	1.27	y	38:25	1.08	311		-	-	*	Co-elute PCB 149
PCB-149	1.97e+06	1.27	y	38:25	1.08	311		-	-	*	Co-elute PCB 139
PCB-140	3.43e+04	1.20	y	38:35	1.01	5.80	J	-	-	*	
PCB-143	1.47e+05	1.15	y	39:01	0.84	29.6		-	-	*	Co-elute PCB 134
PCB-134	1.47e+05	1.15	y	39:01	0.84	29.6		-	-	*	Co-elute PCB 143
PCB-131	6.76e+04	1.24	y	39:18	0.86	13.4	J	-	-	*	Co-elute PCB 133
PCB-133	6.76e+04	1.24	y	39:18	0.86	13.4	J	-	-	*	Co-elute PCB 131
PCB-142	5.48e+07	1.27	y	39:28	0.83	11200		-	-	*	
PCB-165	4.59e+05	1.28	y	39:39	1.14	68.5		-	-	*	Co-elute PCB 146
PCB-146	4.59e+05	1.28	y	39:39	1.14	68.5		-	-	*	Co-elute PCB 165
PCB-161	6.74e+05	1.27	y	39:56	1.06	108		-	-	*	Co-elute PCB 132
PCB-132	6.74e+05	1.27	y	39:56	1.06	108		-	-	*	Co-elute PCB 161
PCB-153	2.28e+06	1.29	y	40:02	1.15	338		-	-	*	
PCB-168	*	*	n	NotFnd	1.23	*		864	824	2.50	
PCB-141	2.93e+05	1.18	y	40:45	0.90	55.5		-	-	*	
PCB-137	1.09e+05	1.29	y	41:07	0.84	22.1		-	-	*	
PCB-130	1.46e+05	1.25	y	41:13	0.89	28.0		-	-	*	
PCB-138	2.17e+06	1.24	y	41:33	1.15	320		-	-	*	Co-elute PCB 163/164
PCB-163	2.17e+06	1.24	y	41:33	1.15	320		-	-	*	Co-elute PCB 138/164
PCB-164	2.17e+06	1.24	y	41:33	1.15	320		-	-	*	Co-elute PCB 138/163
PCB-158	2.79e+05	1.17	y	41:46	1.23	38.5		-	-	*	Co-elute PCB 160
PCB-160	2.79e+05	1.17	y	41:46	1.23	38.5		-	-	*	Co-elute PCB 158
PCB-129	8.96e+04	1.30	y	42:03	0.81	18.9	J	-	-	*	
PCB-166	*	*	n	NotFnd	1.18	*		864	824	2.61	
PCB-159	6.11e+04	1.23	y	42:47	1.28	8.14	J	-	-	*	
PCB-128	3.16e+05	1.09	y	43:02	1.04	51.5		-	-	*	Co-elute PCB 162
PCB-162	3.16e+05	1.09	y	43:02	1.04	51.5		-	-	*	Co-elute PCB 128
PCB-167	9.38e+04	1.17	y	43:25	1.13	14.0	J	-	-	*	
13C-PCB-167	5.93e+07	1.28	y	43:23	1.10	9550					95.5
PCB-156	1.66e+05	1.08	y	44:39	1.20	24.1		-	-	*	
13C-PCB-156	5.71e+07	1.31	y	44:37	1.05	9590					95.9
PCB-157	6.17e+04	1.15	y	44:54	1.12	9.24	J	-	-	*	
13C-PCB-157	5.97e+07	1.28	y	44:52	1.13	9310					93.1
PCB-169	*	*	n	NotFnd	1.07	*		864	824	2.53	
13C-PCB-169	5.91e+07	1.29	y	46:44	1.06	9850					98.5

FAL ID: 12511-011-0001-SA Filename: 05AUG19Z Sam:5 Acquired: 5-AUG-19 13:28:45 ICal: DAILY209FAL4-8-5-19
Client ID: LDW-Y2-IN-ENR+AC-CB-SSWI ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 12511-9 GC Column: DB1MS Amount: 1.000

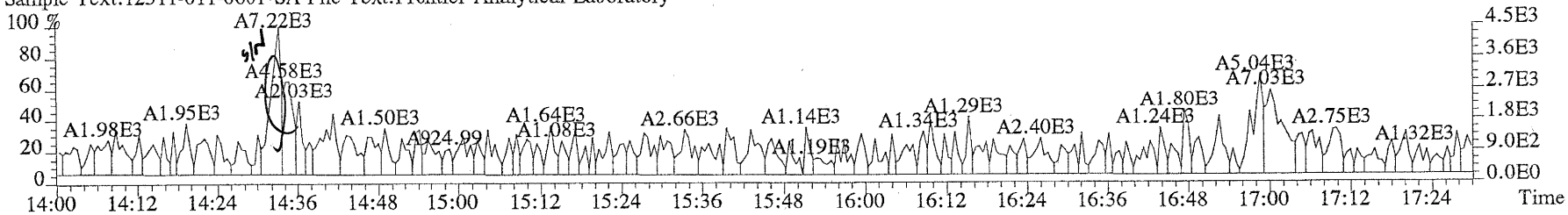
PCB-188	3.72e+04	1.04	y	39:41	1.08	6.33	J	-	-	*	
13C-PCB-188	5.46e+07	1.06	y	39:39	1.13	8520					85.2
PCB-184	3.32e+07	1.07	y	40:07	1.19	5020		-	-	*	
PCB-179	1.86e+05	1.00	y	40:52	1.08	30.7		-	-	*	
PCB-176	5.00e+04	1.14	y	41:18	1.07	8.37	J	-	-	*	
PCB-186	3.98e+04	0.94	y	41:53	1.10	6.46	J	-	-	*	
PCB-178	6.76e+04	0.96	y	42:19	0.75	16.2	J	-	-	*	
PCB-175	*	*	n	NotFnd	0.74	*		936	576	3.57	
PCB-187	3.52e+05	0.97	y	42:49	0.85	73.9		-	-	*	Co-elute PCB 182
PCB-182	3.52e+05	0.97	y	42:49	0.85	73.9		-	-	*	Co-elute PCB 187
PCB-183	1.71e+05	1.12	y	43:07	0.82	37.3		-	-	*	
PCB-185	3.72e+04	1.11	y	43:45	0.75	8.86	J	-	-	*	
PCB-174	2.01e+05	1.18	y	44:06	0.78	46.3		-	-	*	
PCB-181	2.95e+04	1.16	y	44:11	0.74	7.11	J	-	-	*	
PCB-177	1.25e+05	1.17	y	44:21	0.68	32.8		-	-	*	
PCB-171	6.46e+04	1.09	y	44:37	0.76	15.2	J	-	-	*	
PCB-173	*	*	n	NotFnd	0.67	*		936	576	3.98	
PCB-172	5.54e+05	1.13	y	45:23	0.70	142		-	-	*	
PCB-192	2.20e+07	1.05	y	45:36	0.92	4270		-	-	*	
PCB-180	4.68e+05	1.08	y	45:46	0.70	119		-	-	*	
PCB-193	5.92e+04	1.15	y	45:56	0.99	10.7	J	-	-	*	
PCB-191	*	*	n	NotFnd	0.96	*		936	576	2.76	
PCB-170	1.54e+05	0.95	y	47:04	0.69	39.9		-	-	*	
PCB-190	5.73e+04	1.14	y	47:14	0.95	10.8	J	-	-	*	
PCB-189	*	*	n	NotFnd	1.05	*		936	576	1.94	
13C-PCB-189	5.70e+07	1.08	y	48:24	0.96	10500					105
PCB-202	2.40e+04	0.91	y	44:47	1.02	5.28	J	-	-	*	
PCB-201	*	*	n	NotFnd	1.06	*		236	428	1.55	
PCB-204	4.82e+07	0.94	y	45:23	1.05	10400		-	-	*	
PCB-197	3.10e+05	0.95	y	45:38	1.06	65.5		-	-	*	
PCB-200	*	*	n	NotFnd	1.09	*		236	428	1.50	
PCB-198	*	*	n	NotFnd	0.78	*		236	428	2.10	
PCB-199	6.90e+04	0.96	y	47:40	0.75	20.8		-	-	*	
PCB-203	7.82e+04	0.94	y	47:55	0.86	20.4		-	-	*	Co-elute PCB 196
PCB-196	7.82e+04	0.94	y	47:55	0.86	20.4		-	-	*	Co-elute PCB 203
13C-PCB-202	4.44e+07	0.92	y	44:47	0.87	9000					90.0
13C-PCB-178	3.92e+07	1.10	y	42:19	0.71	9710					97.1
13C-PCB-138	5.65e+07	1.29	y	41:31	-	98.2					
PCB-195	2.60e+04	0.91	y	49:01	0.74	5.31	J	-	-	*	
PCB-194	7.21e+04	1.01	y	49:50	0.85	12.8	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.07	*		1280	1150	2.37	
13C-PCB-205	6.62e+07	0.91	y	50:04	1.28	8910					89.1
PCB-208	2.51e+04	1.39	y	49:09	1.06	4.13	J	-	-	*	
13C-PCB-208	5.72e+07	0.84	y	49:07	1.22	8100					81.0
PCB-207	2.48e+05	1.47	y	49:27	1.16	42.9		-	-	*	
PCB-206	2.08e+04	1.39	y	51:16	1.06	4.66	J	-	-	*	
13C-PCB-206	4.19e+07	0.82	y	51:16	0.91	7910					79.1
PCB-209	2.75e+05	1.11	y	52:28	1.12	48.0		-	-	*	
13C-PCB-209	5.09e+07	1.21	y	52:26	1.14	7700					77.0
13C-PCB-194	5.79e+07	0.91	y	49:48	-	110					

Analyst: J Date: 8/6/19

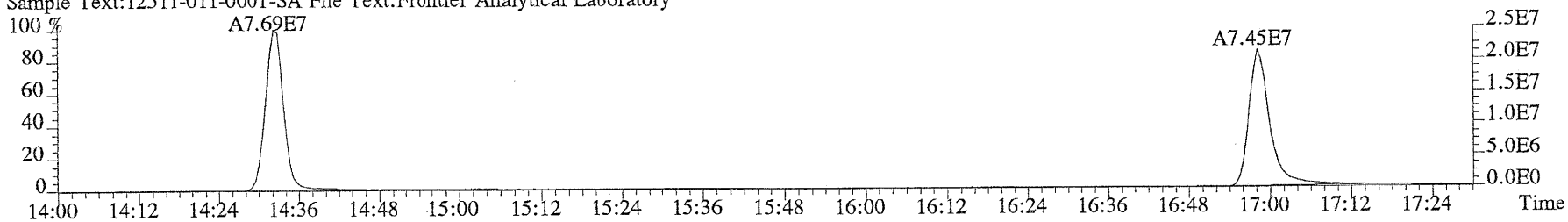
File:05AUG19Z #1-784 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



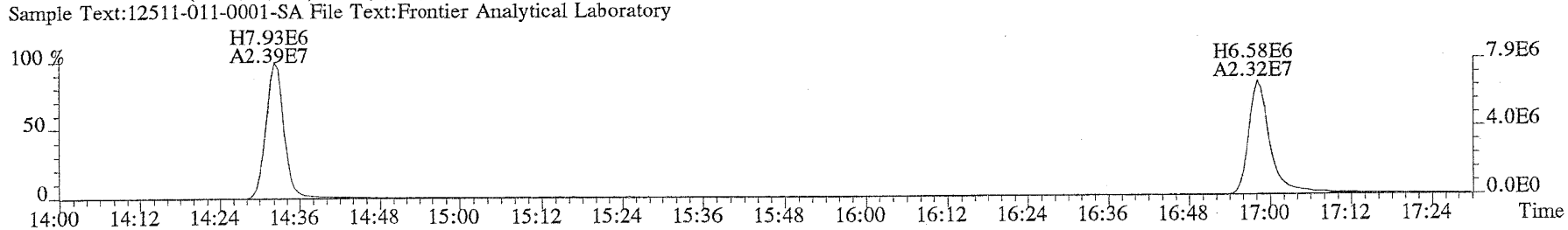
File:05AUG19Z #1-784 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



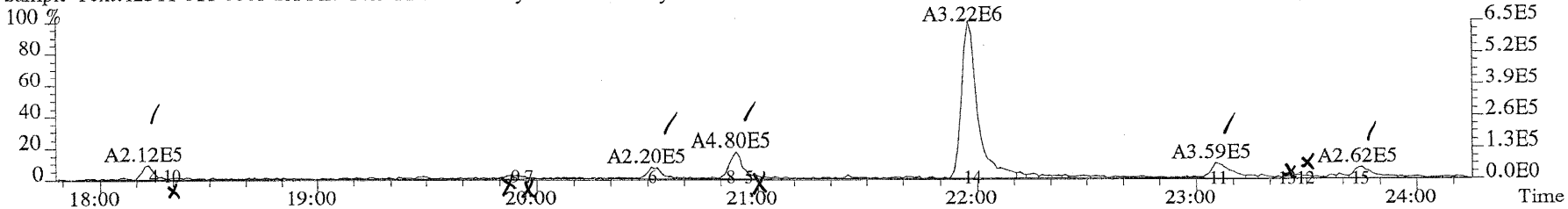
File:05AUG19Z #1-784 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



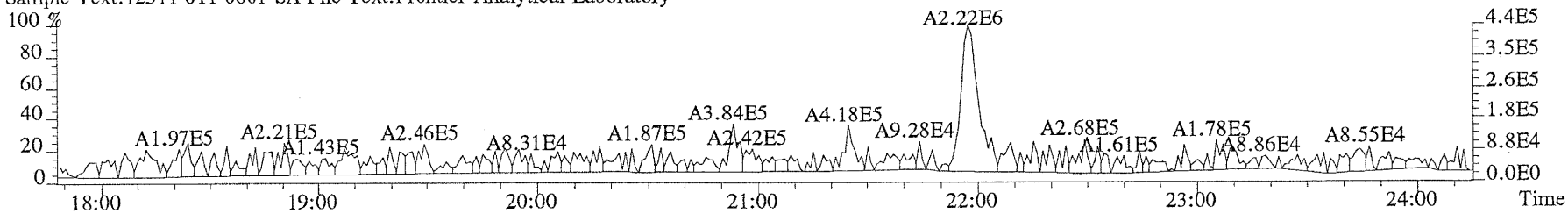
File:05AUG19Z #1-784 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



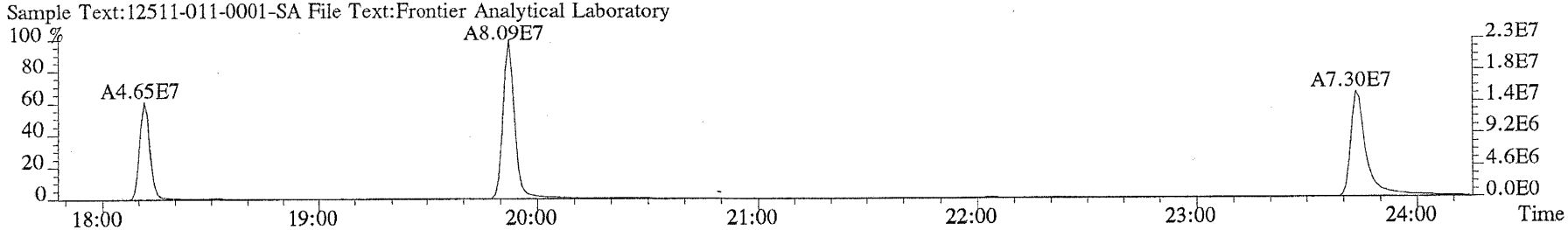
File:05AUG19Z #1-520 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



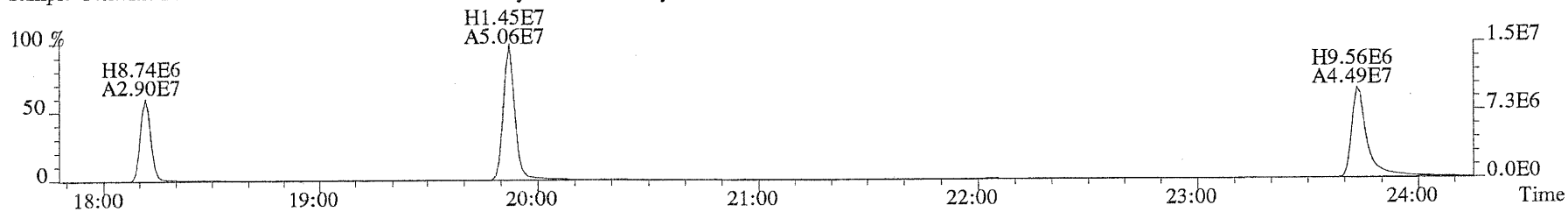
File:05AUG19Z #1-520 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



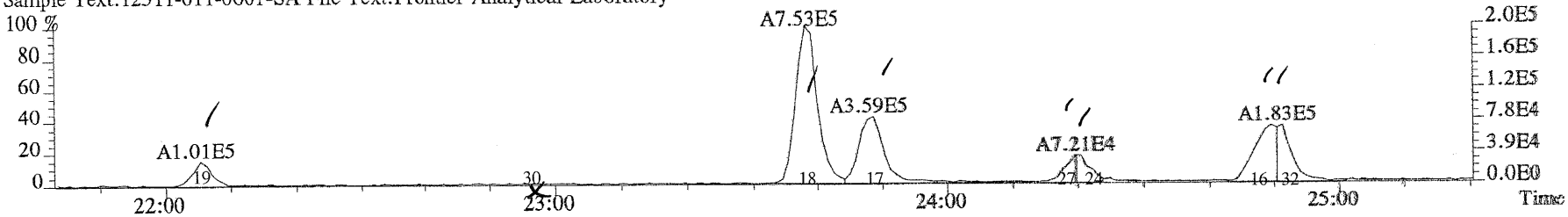
File:05AUG19Z #1-520 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



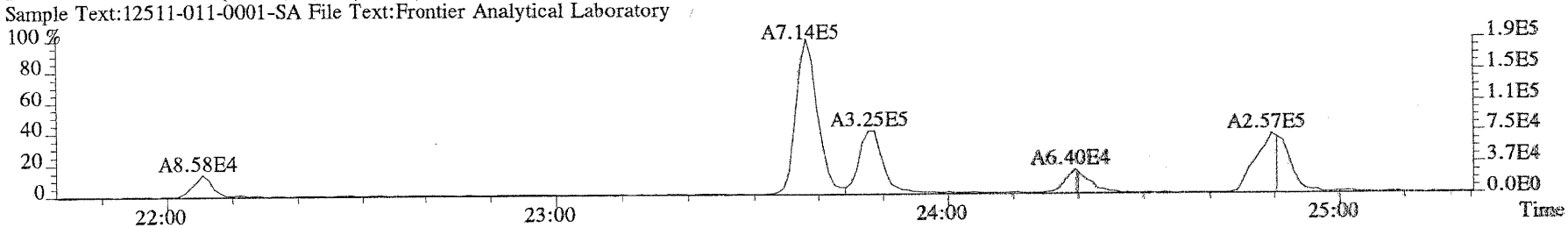
File:05AUG19Z #1-520 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



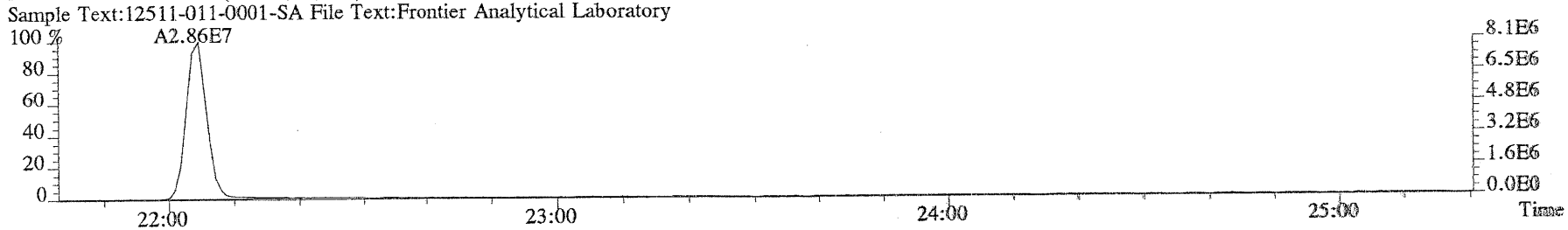
File:05AUG19Z #1-520 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



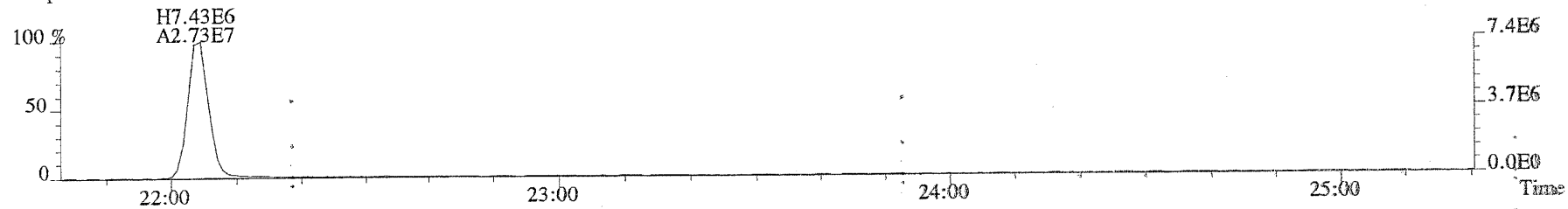
File:05AUG19Z #1-520 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



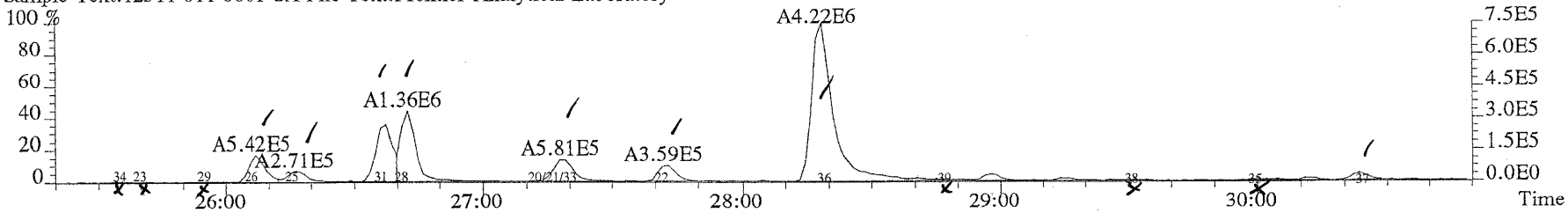
File:05AUG19Z #1-520 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



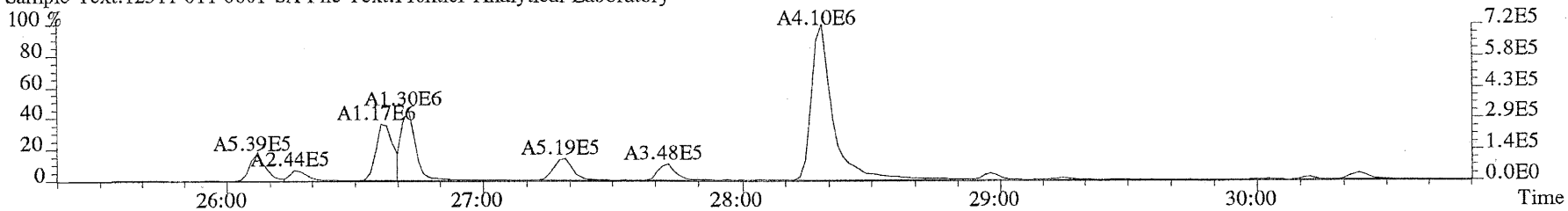
File:05AUG19Z #1-520 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



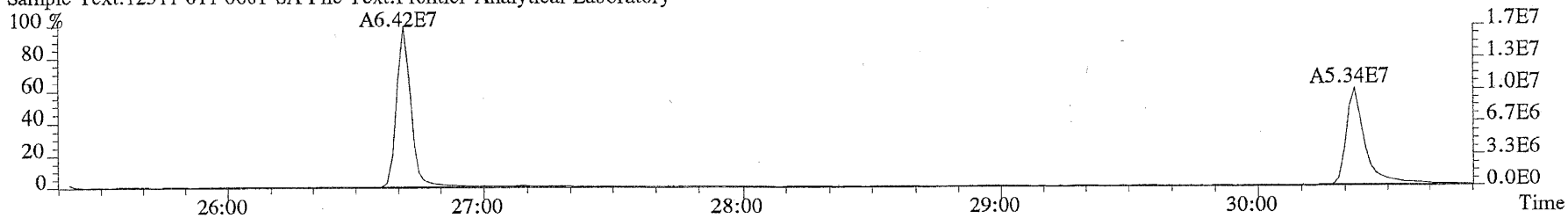
File:05AUG19Z #1-401 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 13:28:45 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:12511-011-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 13:28:45 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:12511-011-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-401 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
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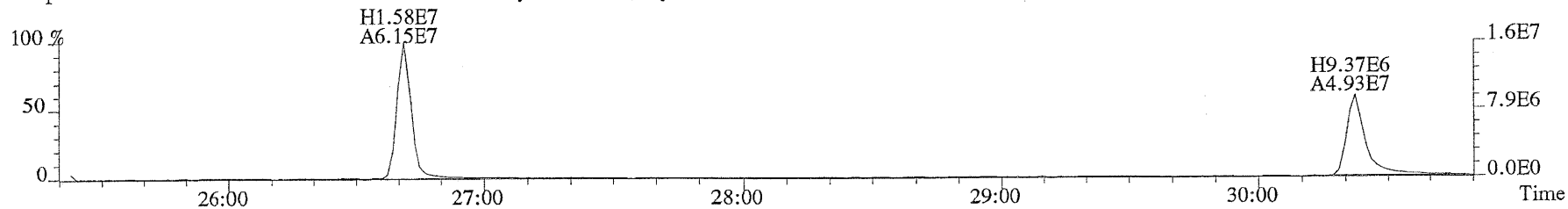
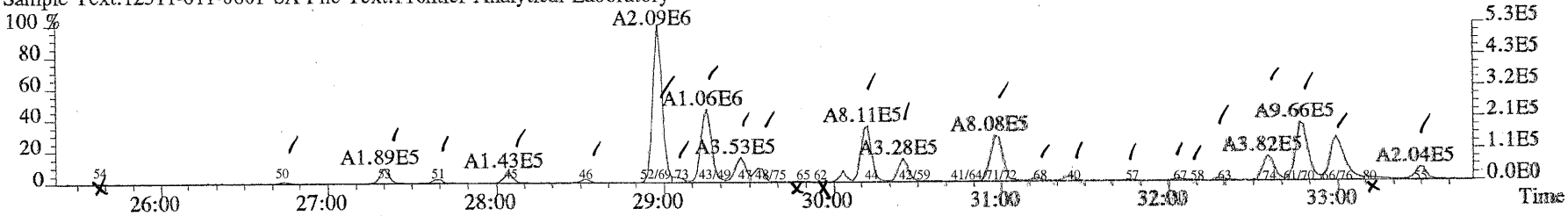
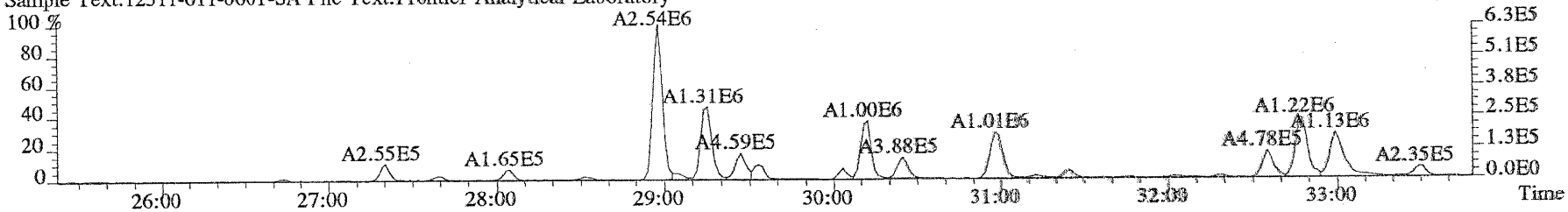
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



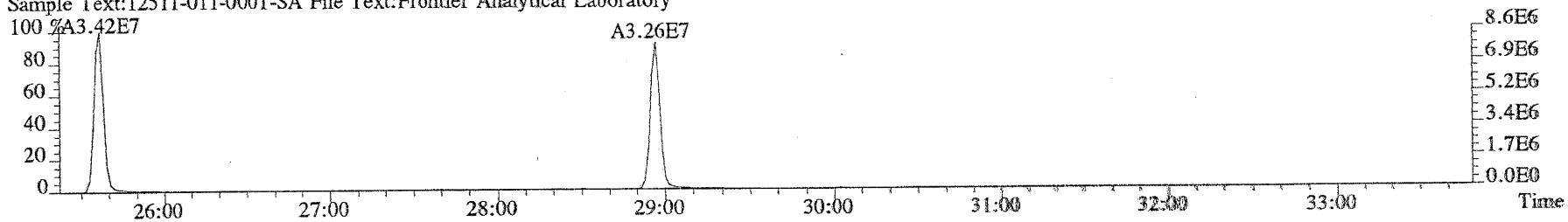
File:05AUG19Z #1-401 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



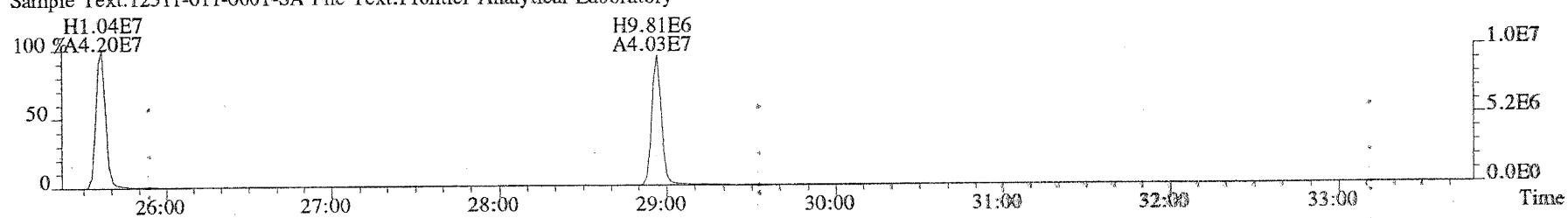
File:05AUG19Z #1-401 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



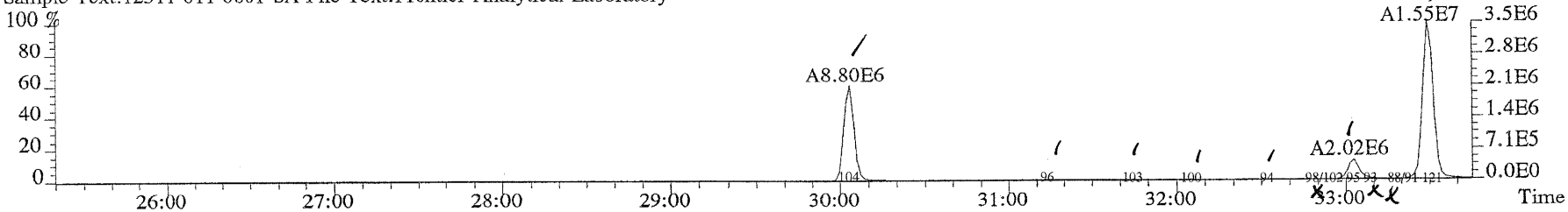
File:05AUG19Z #1-401 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



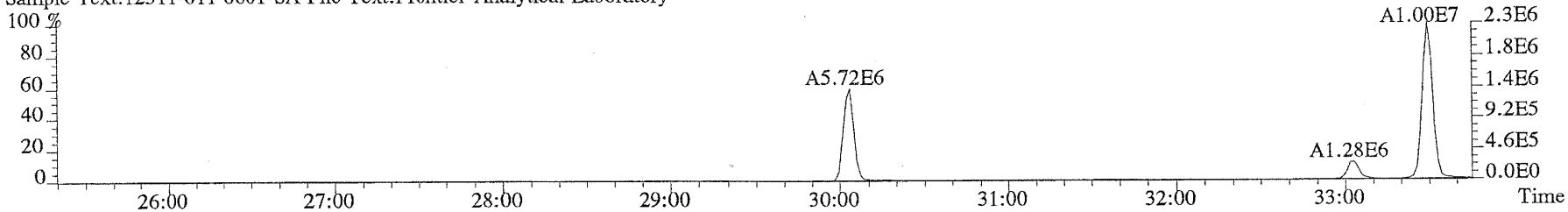
File:05AUG19Z #1-401 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



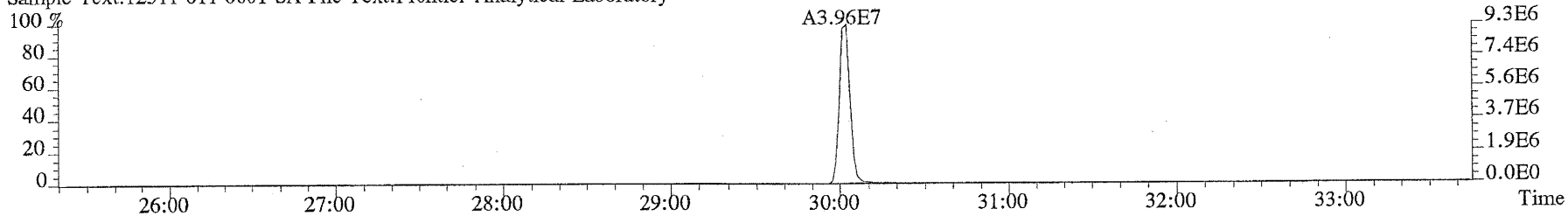
File:05AUG19Z #1-401 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



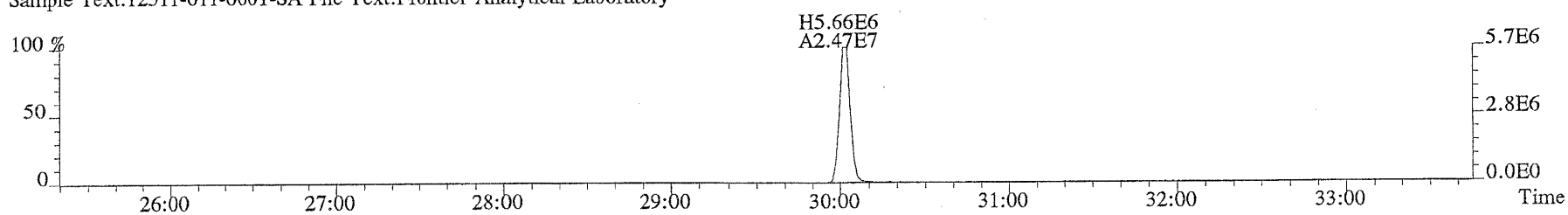
File:05AUG19Z #1-401 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



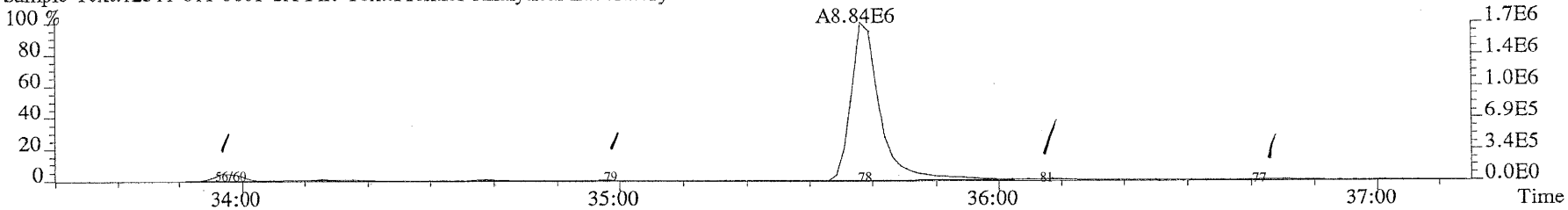
File:05AUG19Z #1-401 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



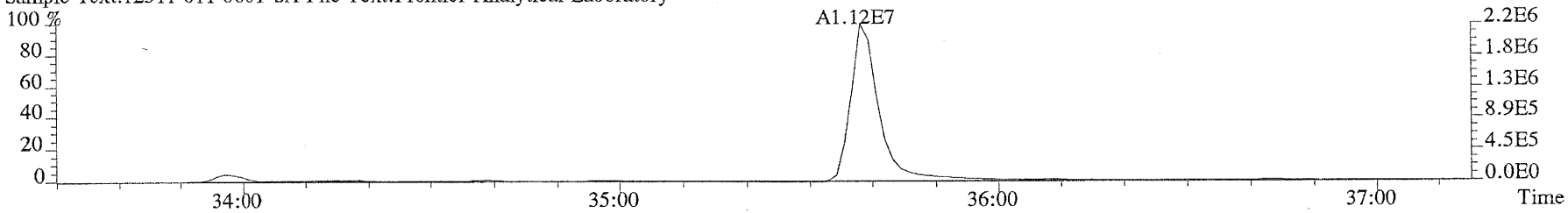
File:05AUG19Z #1-401 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



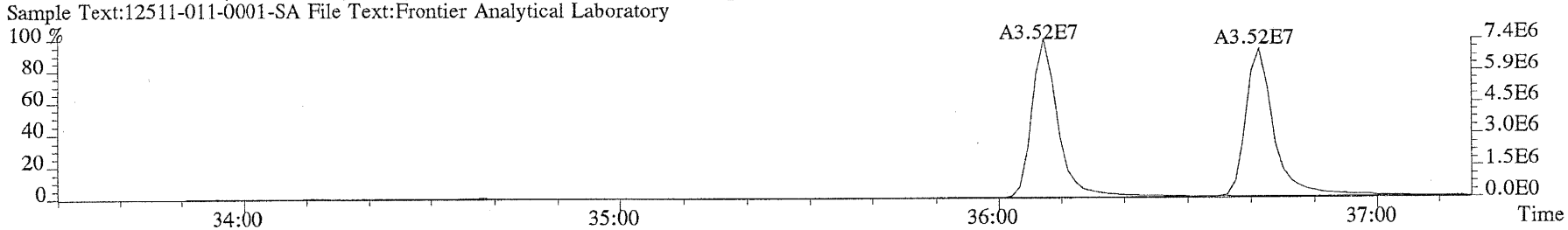
File:05AUG19Z #1-181 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



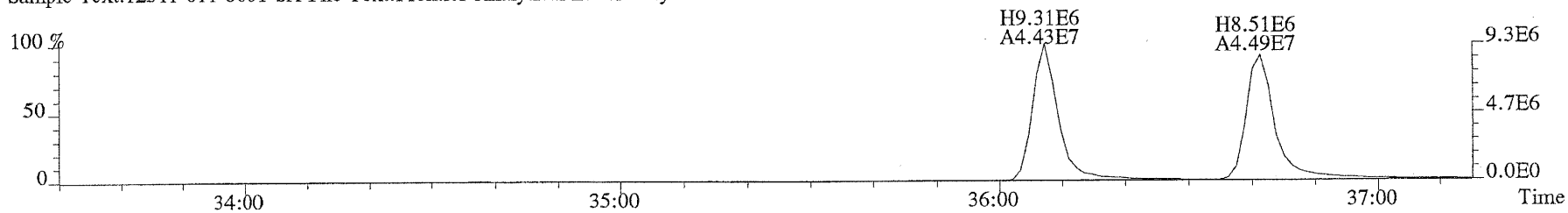
File:05AUG19Z #1-181 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



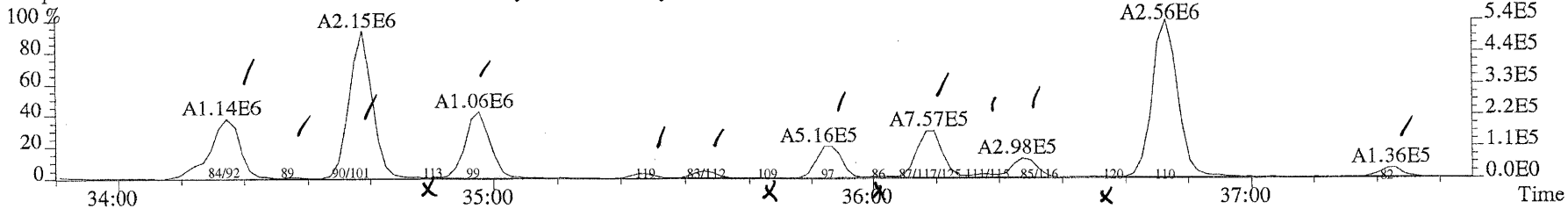
File:05AUG19Z #1-181 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



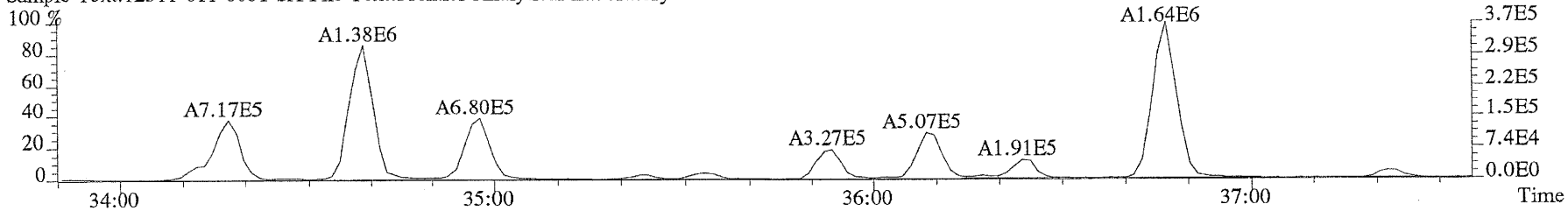
File:05AUG19Z #1-181 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



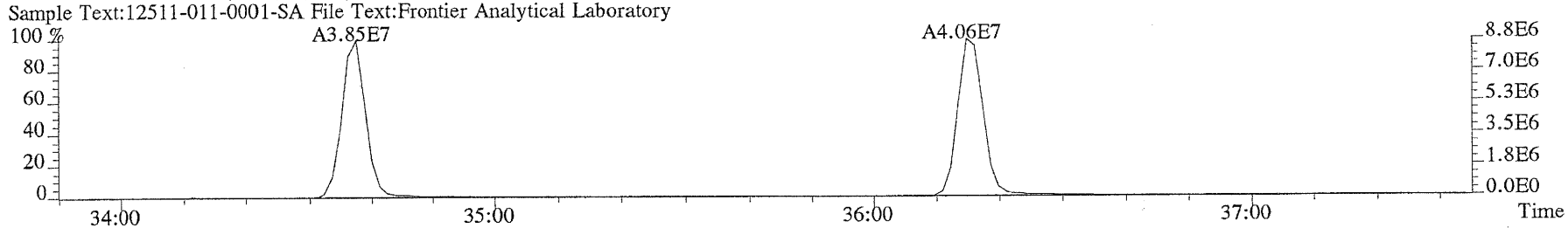
File:05AUG19Z #1-181 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



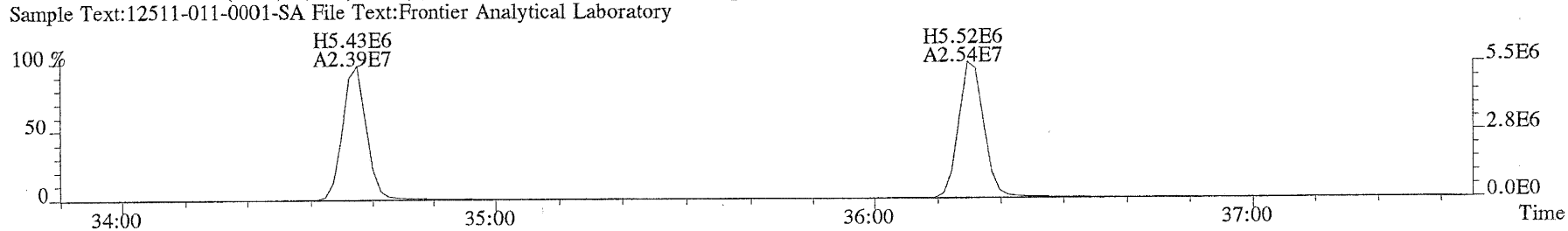
File:05AUG19Z #1-181 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



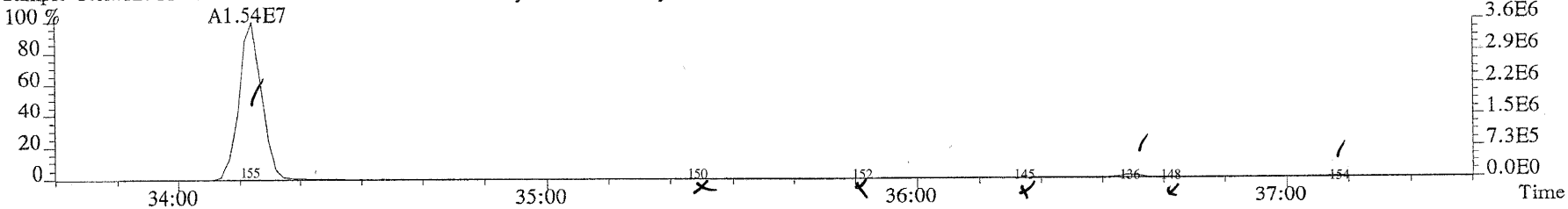
File:05AUG19Z #1-181 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



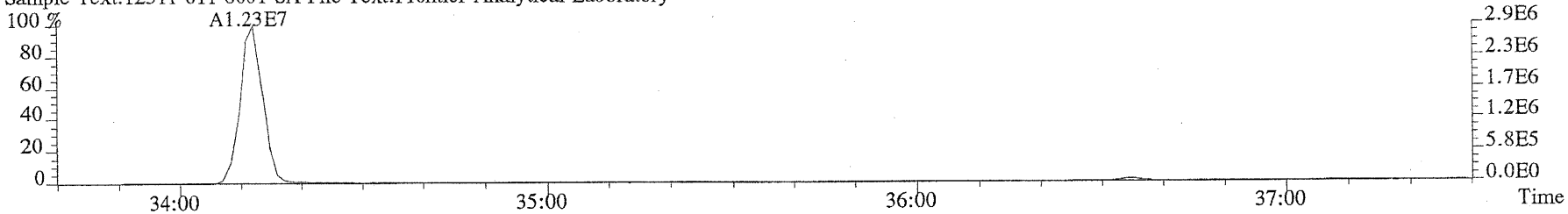
File:05AUG19Z #1-181 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



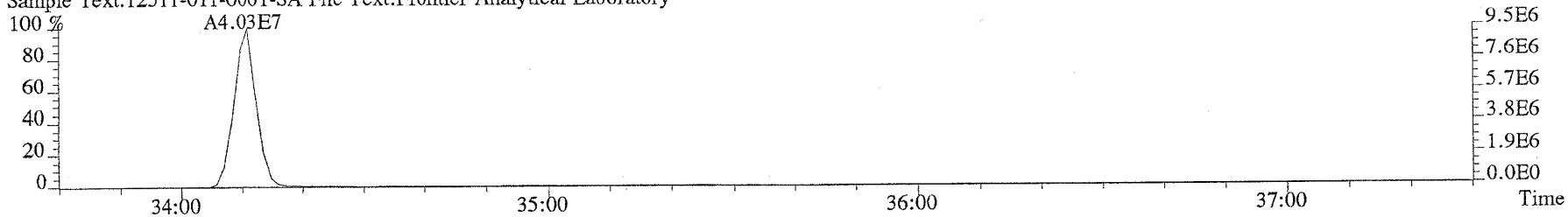
File:05AUG19Z #1-181 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



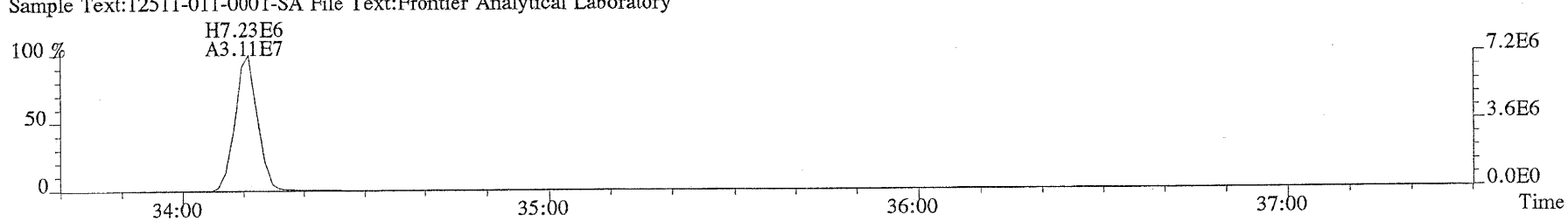
File:05AUG19Z #1-181 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



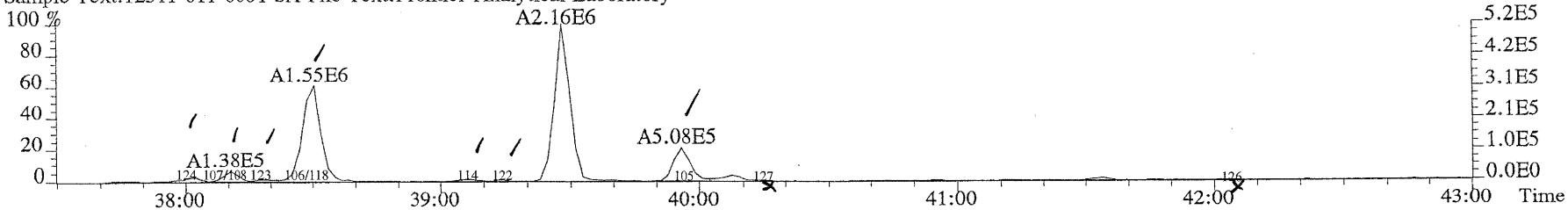
File:05AUG19Z #1-181 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



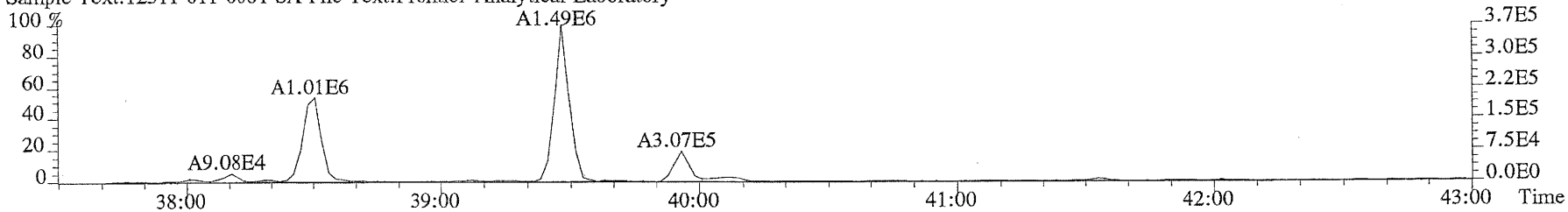
File:05AUG19Z #1-181 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



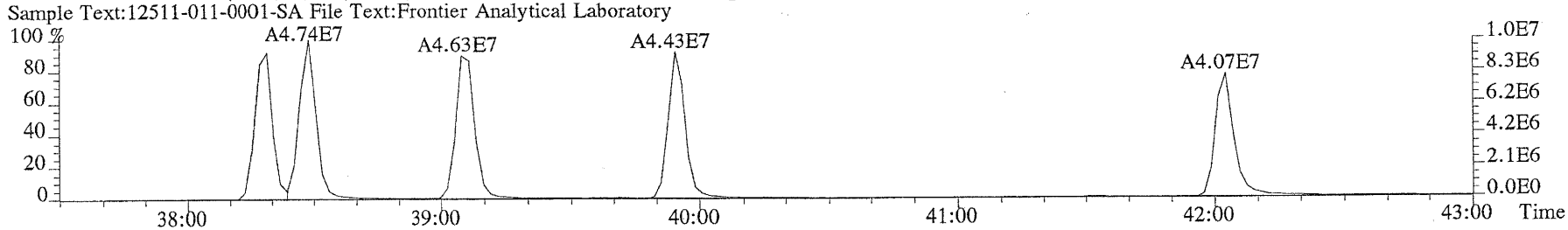
File:05AUG19Z #1-405 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



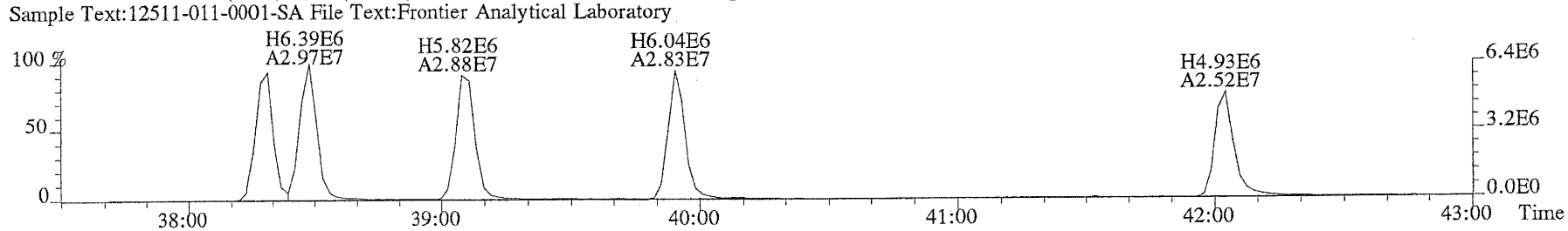
File:05AUG19Z #1-405 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



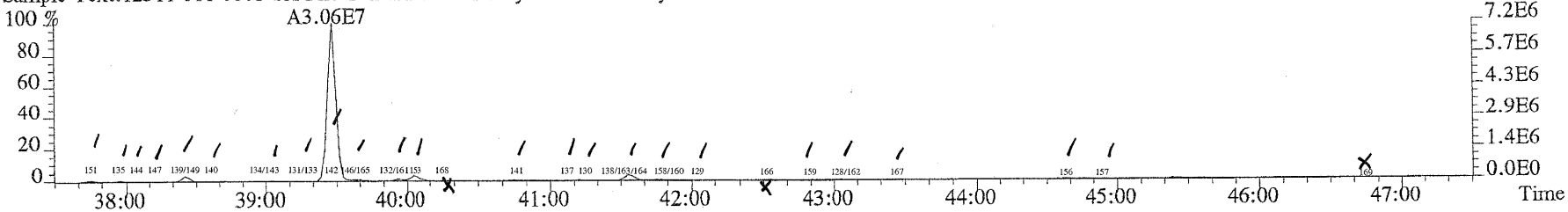
File:05AUG19Z #1-405 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



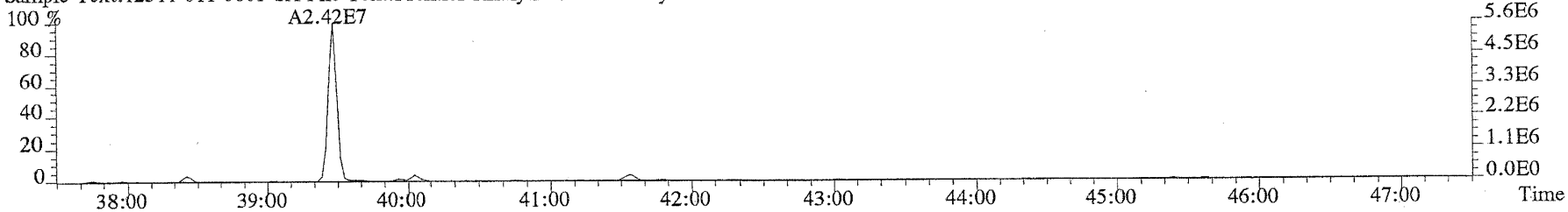
File:05AUG19Z #1-405 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



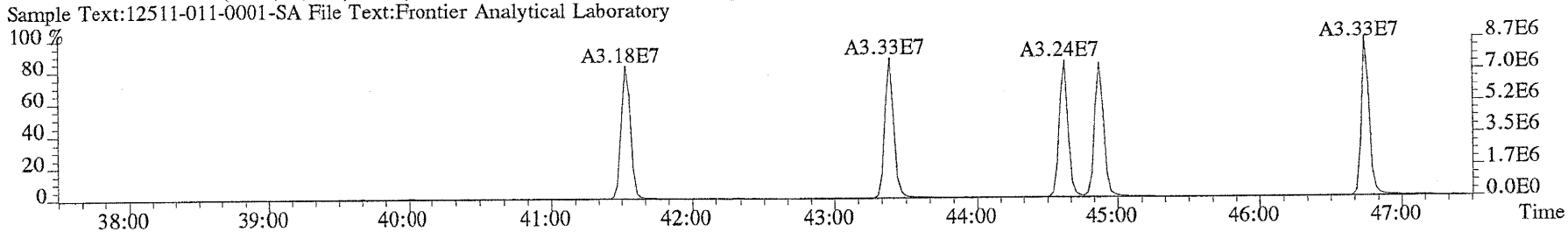
File:05AUG19Z #1-405 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



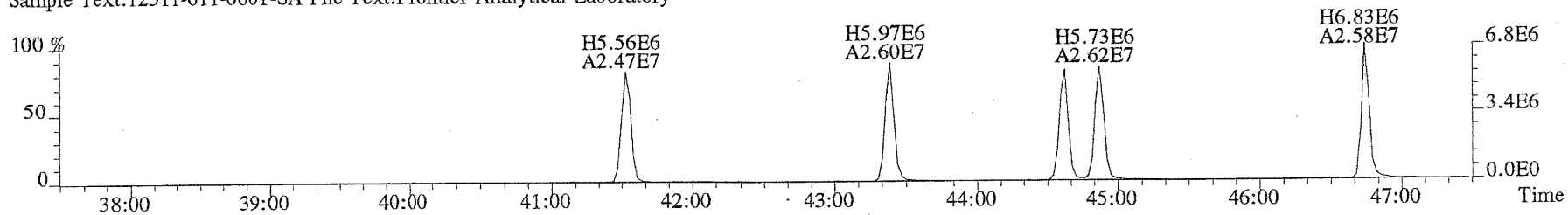
File:05AUG19Z #1-405 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



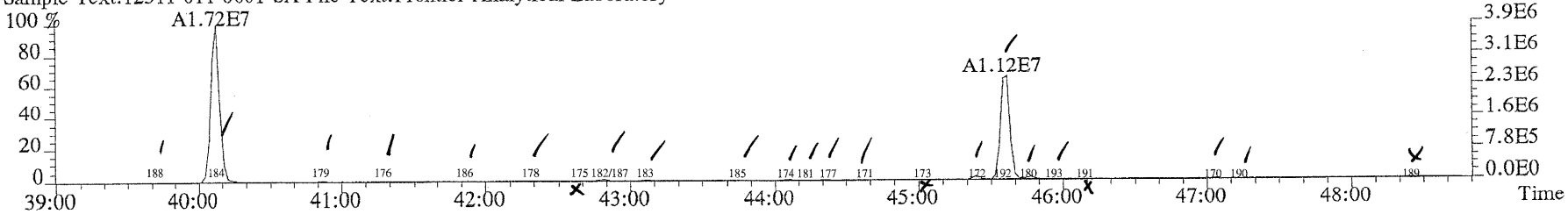
File:05AUG19Z #1-405 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



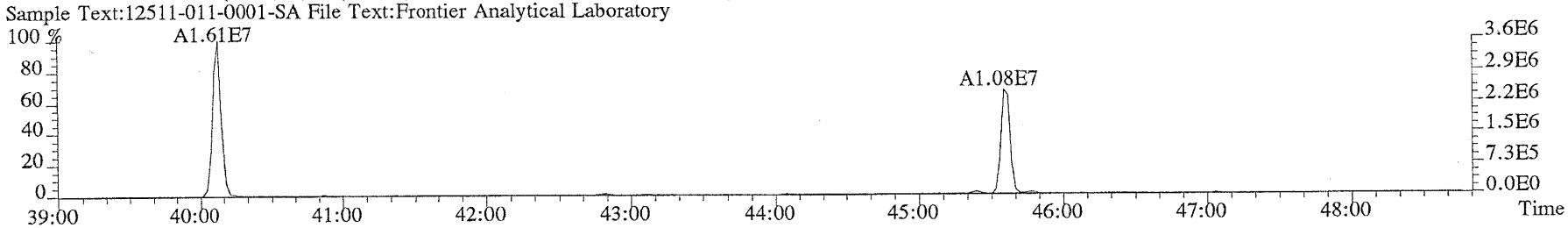
File:05AUG19Z #1-405 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



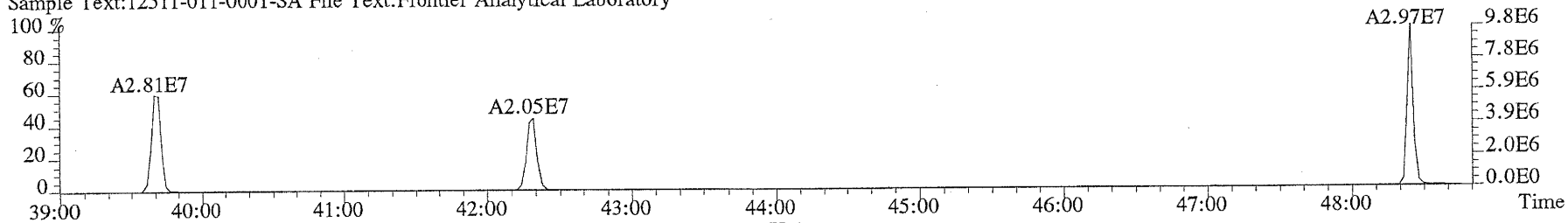
File:05AUG19Z #1-405 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



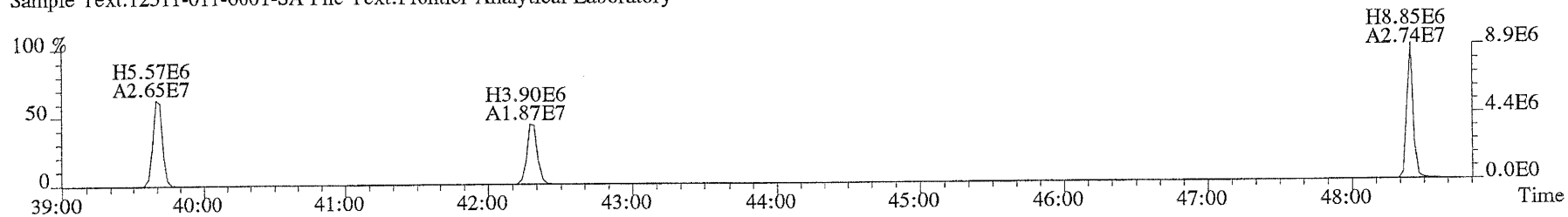
File:05AUG19Z #1-405 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



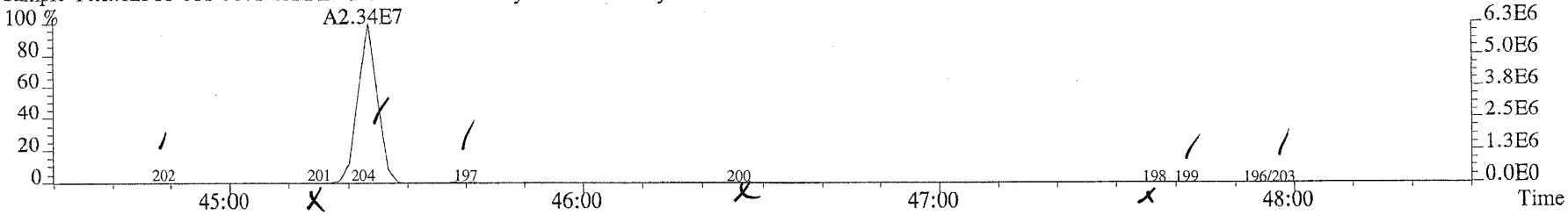
File:05AUG19Z #1-405 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



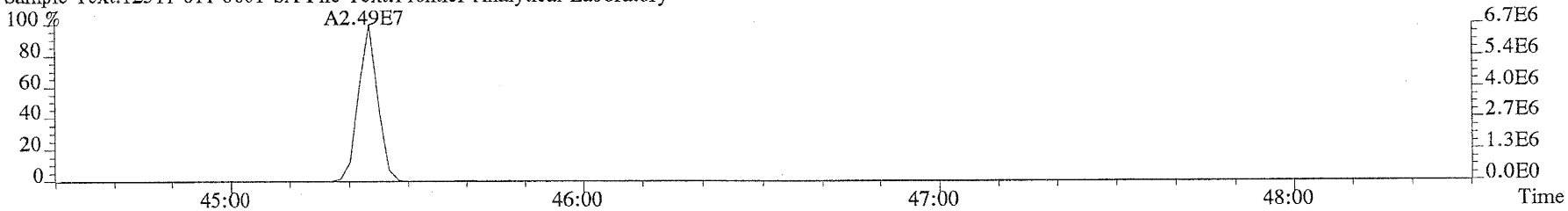
File:05AUG19Z #1-405 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



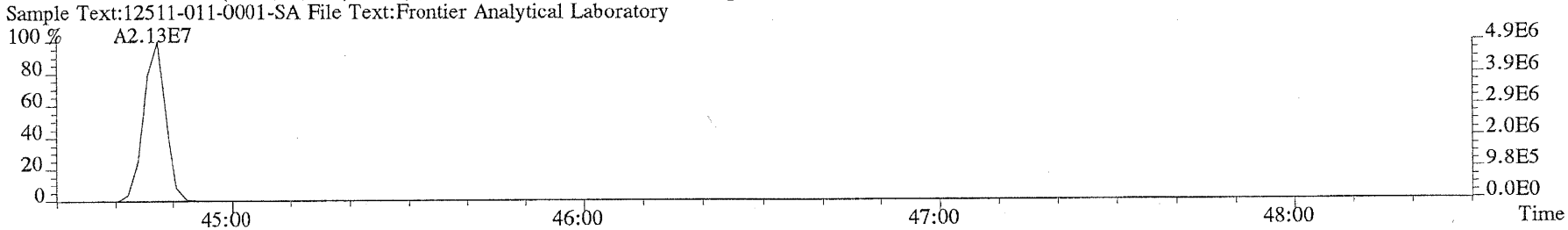
File:05AUG19Z #1-405 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



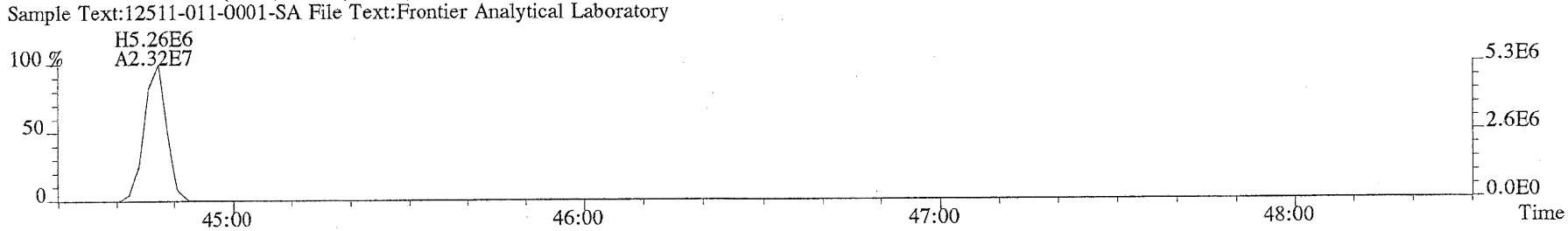
File:05AUG19Z #1-405 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



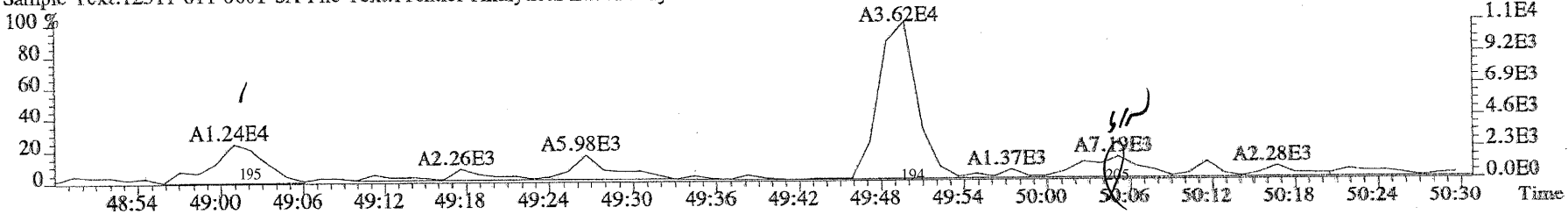
File:05AUG19Z #1-405 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



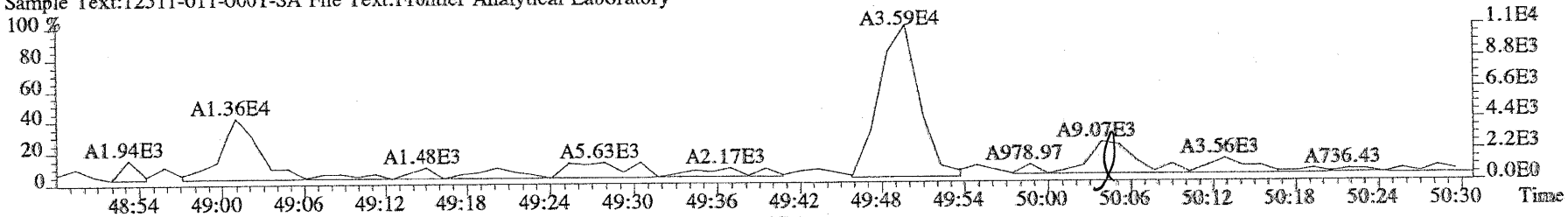
File:05AUG19Z #1-405 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



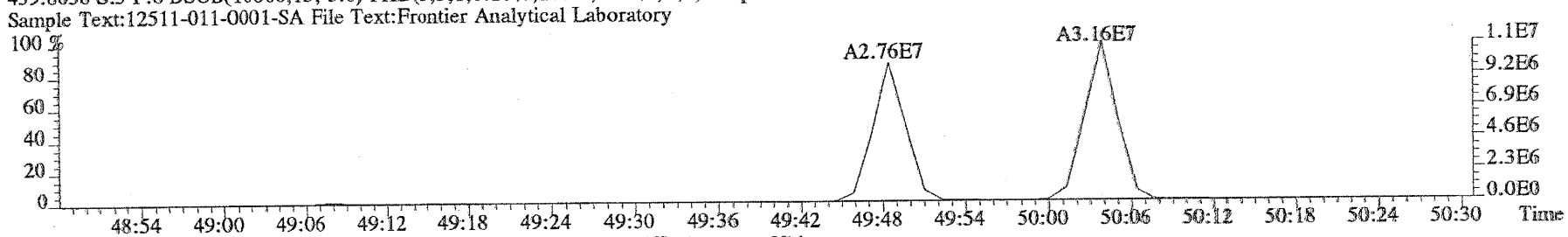
File:05AUG19Z #1-315 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



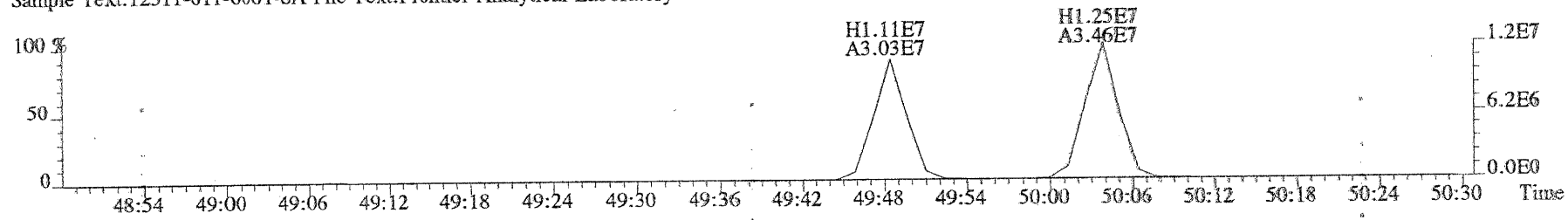
File:05AUG19Z #1-315 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



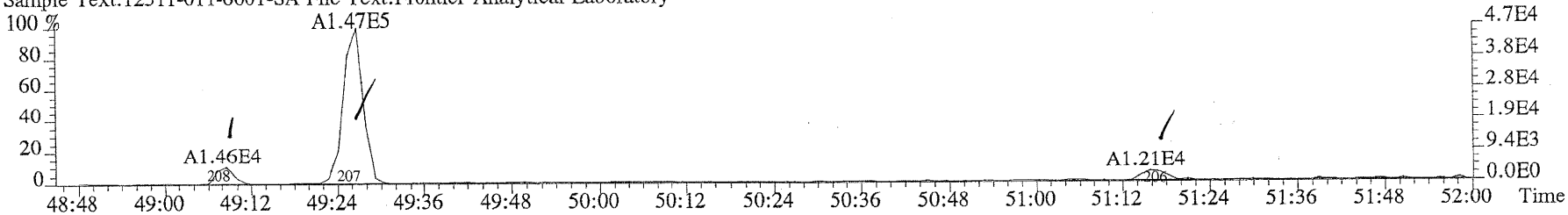
File:05AUG19Z #1-315 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



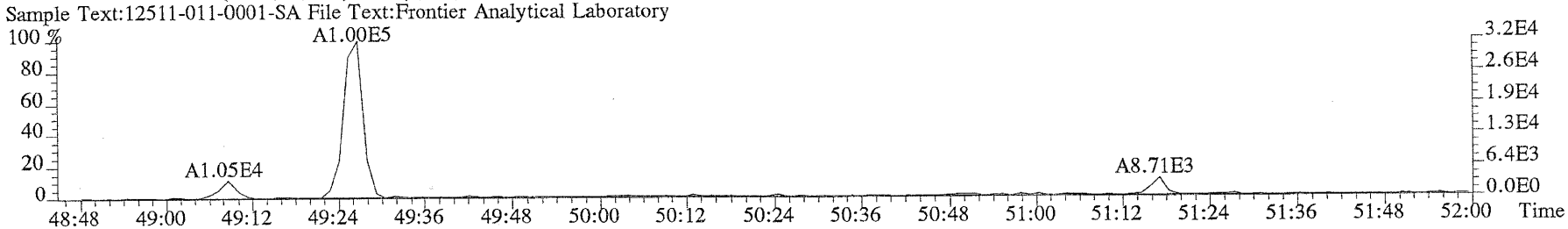
File:05AUG19Z #1-315 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



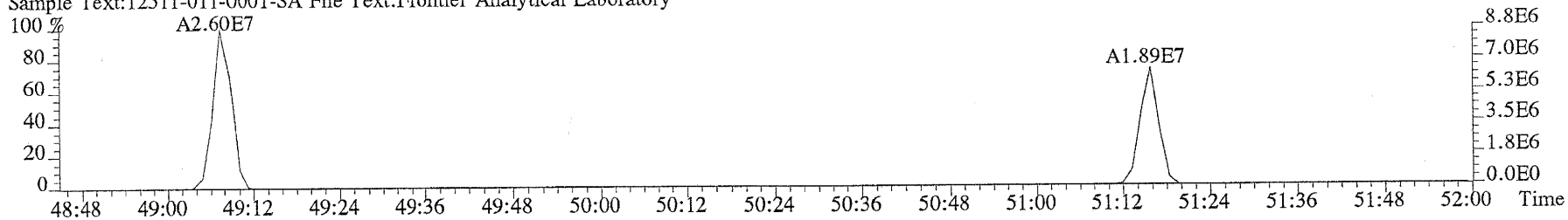
File:05AUG19Z #1-315 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



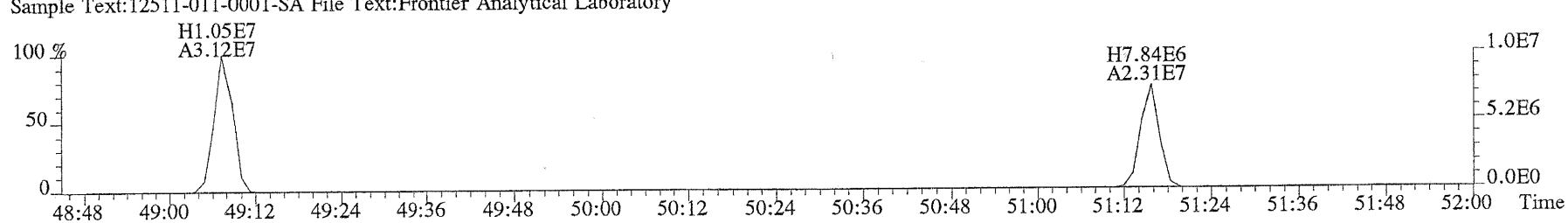
File:05AUG19Z #1-315 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



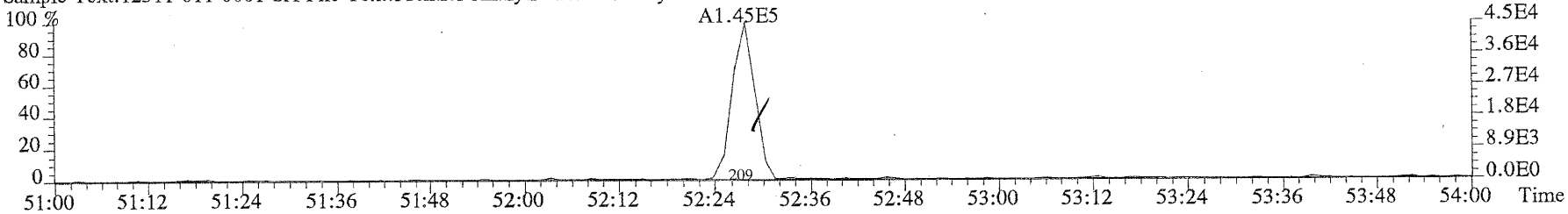
File:05AUG19Z #1-315 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



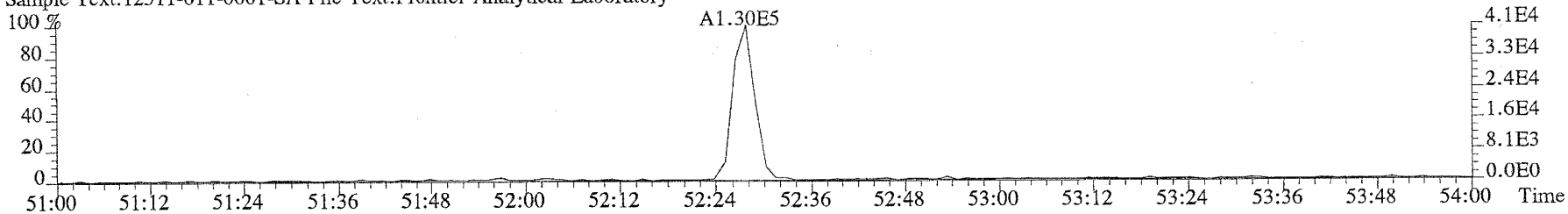
File:05AUG19Z #1-315 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



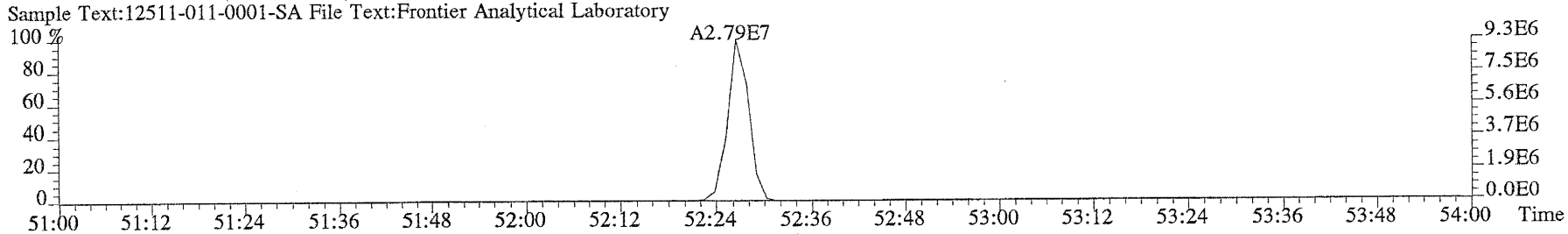
File:05AUG19Z #1-315 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



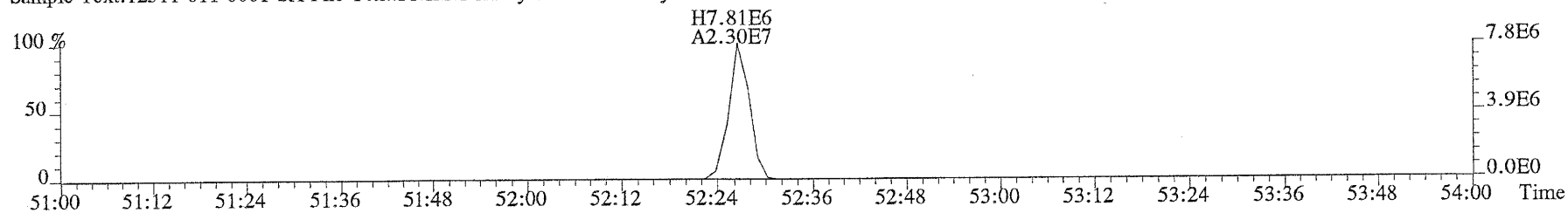
File:05AUG19Z #1-315 Acq: 5-AUG-2019 13:28:45 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-011-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 13:28:45 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:12511-011-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 13:28:45 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:12511-011-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12511-012-0001-SA Filename: 05AUG19Z Sam:6 Acquired: 5-AUG-19 14:27:06 ICal: DAILY209FAL4-8-5-19
Client ID: LDW-Y2-IN-ENR+AC-CC-SSWI 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	*	*	n	NotFnd	1.19	*		3280	2440	3.18	
13C-PCB-1	1.13e+08	3.22	y	14:32	0.92	8370					83.7
PCB-2	*	*	n	NotFnd	1.17	*		3280	2440	3.57	
PCB-3	*	*	n	NotFnd	1.22	*		3280	2440	3.77	
13C-PCB-3	1.11e+08	3.26	y	16:58	0.87	8640					86.4
PCB-4	3.82e+05	1.48	y	18:12	1.25	36.1		-	-	*	
PCB-10	*	*	n	NotFnd	1.30	*		1160	9870	7.88	
13C-PCB-4	8.47e+07	1.59	y	18:11	0.71	8040					80.4
PCB-9	*	*	n	NotFnd	1.37	*		1160	9870	7.51	
PCB-7	*	*	n	NotFnd	1.36	*		1160	9870	7.52	
PCB-6	3.95e+05	1.48	y	20:32	1.59	23.5		-	-	*	
PCB-8	1.03e+06	1.47	y	20:54	1.33	73.0		-	-	*	
PCB-5	*	*	n	NotFnd	1.34	*		1160	9870	7.64	
PCB-14	3.04e+06	1.58	y	21:57	1.30	221		-	-	*	
PCB-11	5.60e+05	1.47	y	23:06	1.18	45.0		-	-	*	
PCB-13	*	*	n	NotFnd	1.24	*		1160	9870	8.29	
PCB-12	*	*	n	NotFnd	1.25	*		1160	9870	8.23	
PCB-15	4.99e+05	1.44	y	23:45	1.12	35.2		-	-	*	
13C-PCB-15	1.27e+08	1.59	y	23:43	0.95	9000					90.0
PCB-19	2.43e+05	1.19	y	22:05	1.19	32.5		-	-	*	
PCB-30	*	*	n	NotFnd	1.71	*		1760	644	2.07	
PCB-18	1.89e+06	1.05	y	23:38	1.13	266		-	-	*	
PCB-17	9.05e+05	1.04	y	23:48	1.27	113		-	-	*	
PCB-27	1.46e+05	1.08	y	24:19	1.58	14.6	J	-	-	*	
PCB-24	1.81e+05	1.12	y	24:20	1.67	17.2	J	-	-	*	
PCB-16	5.46e+05	1.01	y	24:49	1.24	70.0		-	-	*	
PCB-32	6.67e+05	1.10	y	24:50	1.60	66.2		-	-	*	
13C-PCB-19	6.30e+07	1.06	y	22:04	0.50	8500					85.0
13C-PCB-9	1.48e+08	1.60	y	19:52	-	87.2					
PCB-34	*	*	n	NotFnd	1.28	*		4830	3350	7.60	
PCB-23	*	*	n	NotFnd	1.28	*		4830	3350	7.57	
PCB-29	*	*	n	NotFnd	1.29	*		4830	3350	7.52	
PCB-26	1.15e+06	1.07	y	26:07	1.26	81.6		-	-	*	
PCB-25	6.20e+05	1.16	y	26:17	1.26	44.0		-	-	*	
PCB-31	3.06e+06	1.01	y	26:37	1.26	218		-	-	*	
PCB-28	3.51e+06	1.08	y	26:42	1.55	202		-	-	*	
PCB-20	1.72e+06	1.05	y	27:19	1.25	124		-	-	*	Co-elute PCB 21/33
PCB-21	1.72e+06	1.05	y	27:19	1.25	124		-	-	*	Co-elute PCB 20/33
PCB-33	1.72e+06	1.05	y	27:19	1.25	124		-	-	*	Co-elute PCB 20/21
PCB-22	1.06e+06	1.07	y	27:43	1.38	68.8		-	-	*	
PCB-36	6.91e+06	1.07	y	28:18	1.23	504		-	-	*	
PCB-39	*	*	n	NotFnd	1.23	*		4830	3350	7.92	
PCB-38	*	*	n	NotFnd	1.26	*		4830	3350	7.72	
PCB-35	*	*	n	NotFnd	1.11	*		4830	3350	8.76	
PCB-37	4.85e+05	1.12	y	30:22	1.16	37.4		-	-	*	
13C-PCB-37	1.12e+08	1.06	y	30:22	1.52	9350					93.5

FAL ID: 12511-012-0001-SA Filename: 05AUG19Z Sam:6 Acquired: 5-AUG-19 14:27:06 ICal: DAILY209FAL4-8-5-19
Client ID: LDW-Y2-IN-ENR+AC-CC-SSWI ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 12511-9 GC Column: DB1MS Amount: 1.000

PCB-54	*	*	n	NotFnd	1.23	*		788	1600	2.37	
PCB-50	4.95e+04	0.70	y	26:45	0.93	6.32	J	-	-	*	
PCB-53	5.58e+05	0.81	y	27:20	0.91	73.1		-	-	*	
PCB-51	1.92e+05	0.78	y	27:39	0.92	24.7		-	-	*	
PCB-45	4.00e+05	0.74	y	28:03	0.78	61.2		-	-	*	
PCB-46	1.61e+05	0.74	y	28:32	0.74	25.8		-	-	*	
PCB-52	5.77e+06	0.79	y	28:58	0.89	771		-	-	*	Co-elute PCB 69
PCB-69	5.77e+06	0.79	y	28:58	0.89	771		-	-	*	Co-elute PCB 52
PCB-73	2.13e+05	0.81	y	29:04	1.15	22.0		-	-	*	
PCB-43	2.99e+06	0.76	y	29:15	0.79	449		-	-	*	Co-elute PCB 49
PCB-49	2.99e+06	0.76	y	29:15	0.79	449		-	-	*	Co-elute PCB 43
PCB-47	1.06e+06	0.80	y	29:27	0.87	145		-	-	*	
PCB-48	6.30e+05	0.75	y	29:33	1.00	74.9		-	-	*	Co-elute PCB 75
PCB-75	6.30e+05	0.75	y	29:33	1.00	74.9		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*		788	1600	2.89	
PCB-62	*	*	n	NotFnd	1.07	*		788	1600	2.71	
PCB-44	2.35e+06	0.80	y	30:11	0.68	410		-	-	*	
PCB-42	1.01e+06	0.78	y	30:25	0.90	133		-	-	*	Co-elute PCB 59
PCB-59	1.01e+06	0.78	y	30:25	0.90	133		-	-	*	Co-elute PCB 42
PCB-72	2.34e+06	0.81	y	30:58	0.99	282		-	-	*	Co-elute PCB 41/71/64
PCB-41	2.34e+06	0.81	y	30:58	0.99	282		-	-	*	Co-elute PCB 72/71/64
PCB-71	2.34e+06	0.81	y	30:58	0.99	282		-	-	*	Co-elute PCB 72/41/64
PCB-64	2.34e+06	0.81	y	30:58	0.99	282		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.31e+05	0.70	y	31:13	1.12	13.9	J	-	-	*	
PCB-40	2.97e+05	0.83	y	31:24	0.63	55.9		-	-	*	
PCB-57	*	*	n	NotFnd	1.03	*		788	1600	2.83	
PCB-67	1.10e+05	0.76	y	32:03	0.95	13.8	J	-	-	*	
PCB-58	*	*	n	NotFnd	1.11	*		788	1600	2.62	
PCB-63	1.23e+05	0.80	y	32:19	1.02	14.4	J	-	-	*	
PCB-74	1.11e+06	0.81	y	32:35	0.99	133		-	-	*	
PCB-61	2.74e+06	0.79	y	32:46	0.95	342		-	-	*	Co-elute PCB 70
PCB-70	2.74e+06	0.79	y	32:46	0.95	342		-	-	*	Co-elute PCB 61
PCB-76	2.51e+06	0.78	y	32:59	1.06	280		-	-	*	Co-elute PCB 66
PCB-66	2.51e+06	0.78	y	32:59	1.06	280		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.20	*		788	1600	2.41	
PCB-55	4.06e+05	0.82	y	33:31	1.04	46.3		-	-	*	
13C-PCB-54	8.40e+07	0.83	y	25:37	1.36	7850					78.5
PCB-104	1.38e+07	1.55	y	30:03	1.10	1820		-	-	*	
PCB-96	5.44e+04	1.39	y	31:14	1.03	7.60	J	-	-	*	
PCB-103	7.94e+04	1.47	y	31:44	0.81	14.1	J	-	-	*	
PCB-100	6.57e+04	1.62	y	32:06	0.81	11.6	J	-	-	*	
PCB-94	2.61e+04	1.35	y	32:31	0.67	5.64	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.68	*		308	388	1.57	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.68	*		308	388	1.57	Co-elute PCB 98
PCB-95	4.02e+06	1.56	y	33:03	0.78	748		-	-	*	
PCB-93	*	*	n	NotFnd	0.73	*		308	388	1.45	
PCB-88	*	*	n	NotFnd	0.76	*		308	388	1.41	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.76	*		308	388	1.41	Co-elute PCB 88
PCB-121	2.43e+07	1.58	y	33:29	0.94	3720		-	-	*	
13C-PCB-104	6.92e+07	1.59	y	30:02	1.05	8420					84.2
13C-PCB-28	1.21e+08	1.03	y	26:41	1.82	8480					84.8
13C-PCB-52	7.87e+07	0.80	y	28:56	-	96.9					

PCB-56	1.23e+06	0.83 y	33:57	1.14	132		-	-	*	Co-elute PCB 60
PCB-60	1.23e+06	0.83 y	33:57	1.14	132		-	-	*	Co-elute PCB 56
PCB-79	9.75e+04	0.73 y	34:56	1.22	9.76	J	-	-	*	
PCB-78	1.86e+07	0.79 y	35:38	1.17	1960		-	-	*	
PCB-81	2.58e+05	0.85 y	36:10	1.29	24.5		-	-	*	
13C-PCB-81	8.17e+07	0.79 y	36:07	1.32	9440					94.4
PCB-77	2.00e+05	0.81 y	36:41	1.11	22.0		-	-	*	
13C-PCB-77	8.18e+07	0.79 y	36:41	1.39	9000					90.0
PCB-155	2.63e+07	1.28 y	34:12	1.03	3430		-	-	*	
PCB-150	*	* n	NotFnd	0.96	*		676	416	1.68	
PCB-152	*	* n	NotFnd	0.95	*		676	416	1.71	
PCB-145	*	* n	NotFnd	0.90	*		676	416	1.81	
PCB-136	6.55e+05	1.32 y	36:35	0.97	90.1		-	-	*	
PCB-148	*	* n	NotFnd	0.60	*		676	416	2.72	
PCB-154	1.29e+05	1.32 y	37:08	0.78	22.1		-	-	*	
13C-PCB-155	7.46e+07	1.29 y	34:10	1.43	7970					79.7
13C-PCB-111	6.66e+07	1.60 y	36:15	1.12	9120					91.2
13C-PCB-101	6.55e+07	1.61 y	34:37	-	105					
PCB-84	2.36e+06	1.55 y	34:17	0.86	356		-	-	*	Co-elute PCB 92
PCB-92	2.36e+06	1.55 y	34:17	0.86	356		-	-	*	Co-elute PCB 84
PCB-89	6.76e+04	1.43 y	34:27	0.88	9.88	J	-	-	*	
PCB-90	4.64e+06	1.51 y	34:39	0.89	673		-	-	*	Co-elute PCB 101
PCB-101	4.64e+06	1.51 y	34:39	0.89	673		-	-	*	Co-elute PCB 90
PCB-113	*	* n	NotFnd	1.06	*		1430	1270	3.95	
PCB-99	2.26e+06	1.47 y	34:58	0.97	301		-	-	*	
PCB-119	1.68e+05	1.42 y	35:23	1.07	20.2		-	-	*	
PCB-83	2.56e+05	1.40 y	35:33	0.87	37.8		-	-	*	Co-elute PCB 112
PCB-112	2.56e+05	1.40 y	35:33	0.87	37.8		-	-	*	Co-elute PCB 83
PCB-109	*	* n	NotFnd	1.01	*		1430	1270	4.12	
PCB-97	1.15e+06	1.52 y	35:53	0.68	218		-	-	*	
PCB-86	*	* n	NotFnd	0.77	*		1430	1270	5.40	
PCB-125	1.59e+06	1.51 y	36:08	0.90	230		-	-	*	Co-elute PCB 87/117
PCB-87	1.59e+06	1.51 y	36:08	0.90	230		-	-	*	Co-elute PCB 125/117
PCB-117	1.59e+06	1.51 y	36:08	0.90	230		-	-	*	Co-elute PCB 125/87
PCB-111	9.68e+04	1.56 y	36:17	1.04	12.1	J	-	-	*	Co-elute PCB 115
PCB-115	9.68e+04	1.56 y	36:17	1.04	12.1	J	-	-	*	Co-elute PCB 111
PCB-85	6.15e+05	1.46 y	36:24	0.85	93.0		-	-	*	Co-elute PCB 116
PCB-116	6.15e+05	1.46 y	36:24	0.85	93.0		-	-	*	Co-elute PCB 85
PCB-120	*	* n	NotFnd	1.04	*		1430	1270	4.03	
PCB-110	5.17e+06	1.56 y	36:46	0.99	674		-	-	*	
PCB-82	2.67e+05	1.38 y	37:22	0.57	60.5		-	-	*	
PCB-124	1.62e+05	1.66 y	38:01	1.12	18.6	J	-	-	*	
PCB-108	2.73e+05	1.49 y	38:10	1.10	31.9		-	-	*	Co-elute PCB 107
PCB-107	2.73e+05	1.49 y	38:10	1.10	31.9		-	-	*	Co-elute PCB 108
PCB-123	5.86e+04	1.73 y	38:19	1.03	7.49	J	-	-	*	
13C-PCB-123	7.57e+07	1.57 y	38:19	1.30	10000					100
PCB-118	3.15e+06	1.56 y	38:30	1.06	365		-	-	*	Co-elute PCB 106
PCB-106	3.15e+06	1.56 y	38:30	1.06	365		-	-	*	Co-elute PCB 118
13C-PCB-118	8.14e+07	1.59 y	38:29	1.44	9760					97.6
PCB-114	5.87e+04	1.59 y	39:06	1.19	6.45	J	-	-	*	
13C-PCB-114	7.66e+07	1.57 y	39:05	1.33	9900					99.0
PCB-122	5.27e+04	1.46 y	39:15	1.06	6.39	J	-	-	*	
PCB-105	1.02e+06	1.63 y	39:56	1.11	121		-	-	*	
13C-PCB-105	7.59e+07	1.60 y	39:54	1.36	9580					95.8

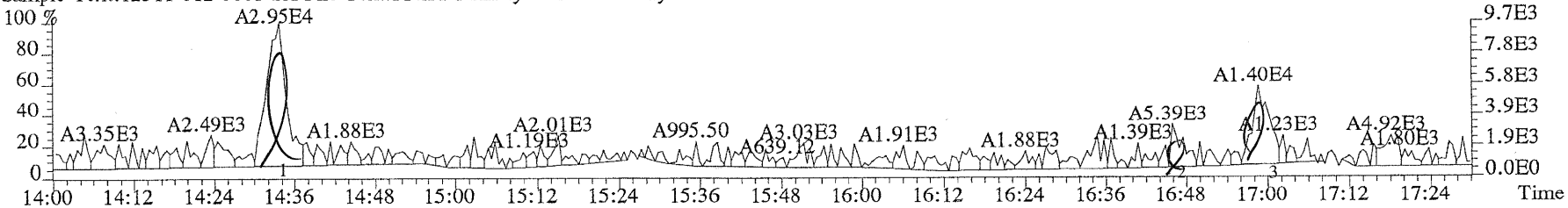
PCB-127	*	*	n	NotFnd	1.03	*		1060	1050	3.17	
PCB-126	*	*	n	NotFnd	1.08	*		1060	1050	3.69	
13C-PCB-126	6.98e+07	1.59	y	42:03	1.24	9670					96.7
PCB-151	6.73e+05	1.26	y	37:46	0.84	129		-	-	*	
PCB-135	4.26e+05	1.32	y	37:57	0.91	75.0		-	-	*	
PCB-144	1.52e+05	1.07	y	38:04	0.96	25.5		-	-	*	
PCB-147	1.01e+05	1.33	y	38:10	1.00	16.2	J	-	-	*	
PCB-139	2.36e+06	1.33	y	38:25	1.08	351		-	-	*	Co-elute PCB 149
PCB-149	2.36e+06	1.33	y	38:25	1.08	351		-	-	*	Co-elute PCB 139
PCB-140	4.07e+04	1.11	y	38:37	1.01	6.49	J	-	-	*	
PCB-143	1.79e+05	1.32	y	39:01	0.84	34.1		-	-	*	Co-elute PCB 134
PCB-134	1.79e+05	1.32	y	39:01	0.84	34.1		-	-	*	Co-elute PCB 143
PCB-131	8.21e+04	1.12	y	39:16	0.86	15.3	J	-	-	*	Co-elute PCB 133
PCB-133	8.21e+04	1.12	y	39:16	0.86	15.3	J	-	-	*	Co-elute PCB 131
PCB-142	5.48e+07	1.26	y	39:28	0.83	10600		-	-	*	
PCB-165	5.97e+05	1.40	y	39:39	1.14	84.0		-	-	*	Co-elute PCB 146
PCB-146	5.97e+05	1.40	y	39:39	1.14	84.0		-	-	*	Co-elute PCB 165
PCB-161	1.00e+06	1.31	y	39:56	1.06	151		-	-	*	Co-elute PCB 132
PCB-132	1.00e+06	1.31	y	39:56	1.06	151		-	-	*	Co-elute PCB 161
PCB-153	2.98e+06	1.28	y	40:02	1.15	416		-	-	*	
PCB-168	*	*	n	NotFnd	1.23	*		856	844	2.42	
PCB-141	4.18e+05	1.30	y	40:45	0.90	74.6		-	-	*	
PCB-137	1.42e+05	1.17	y	41:07	0.84	27.0		-	-	*	
PCB-130	1.74e+05	1.21	y	41:13	0.89	31.4		-	-	*	
PCB-138	2.79e+06	1.17	y	41:33	1.15	388		-	-	*	Co-elute PCB 163/164
PCB-163	2.79e+06	1.17	y	41:33	1.15	388		-	-	*	Co-elute PCB 138/164
PCB-164	2.79e+06	1.17	y	41:33	1.15	388		-	-	*	Co-elute PCB 138/163
PCB-158	3.13e+05	1.23	y	41:46	1.23	40.8		-	-	*	Co-elute PCB 160
PCB-160	3.13e+05	1.23	y	41:46	1.23	40.8		-	-	*	Co-elute PCB 158
PCB-129	1.20e+05	1.38	y	42:01	0.81	23.8		-	-	*	
PCB-166	*	*	n	NotFnd	1.18	*		856	844	2.52	
PCB-159	5.89e+04	1.38	y	42:45	1.28	7.39	J	-	-	*	
PCB-128	3.86e+05	1.14	y	43:02	1.04	59.4		-	-	*	Co-elute PCB 162
PCB-162	3.86e+05	1.14	y	43:02	1.04	59.4		-	-	*	Co-elute PCB 128
PCB-167	1.04e+05	1.35	y	43:25	1.13	14.7	J	-	-	*	
13C-PCB-167	6.30e+07	1.28	y	43:23	1.10	9860					98.6
PCB-156	1.99e+05	1.08	y	44:37	1.20	26.9		-	-	*	
13C-PCB-156	6.15e+07	1.28	y	44:37	1.05	10000					100
PCB-157	6.50e+04	1.17	y	44:54	1.12	9.13	J	-	-	*	
13C-PCB-157	6.36e+07	1.31	y	44:52	1.13	9660					96.6
PCB-169	*	*	n	NotFnd	1.07	*		856	844	2.51	
13C-PCB-169	6.16e+07	1.30	y	46:44	1.06	9980					99.8

FAL ID: 12511-012-0001-SA Filename: 05AUG19Z Sam:6 Acquired: 5-AUG-19 14:27:06 ICal: DAILY209FAL4-8-5-19
Client ID: LDW-Y2-IN-ENR+AC-CC-SSWI ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 12511-9 GC Column: DB1MS Amount: 1.000

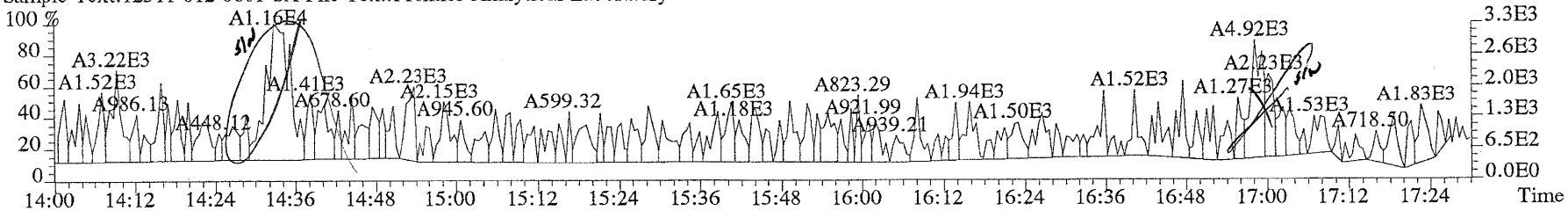
PCB-188	4.04e+04	1.04	y	39:41	1.08	6.28	J	-	-	*	
13C-PCB-188	5.97e+07	1.07	y	39:39	1.13	9070					90.7
PCB-184	3.15e+07	1.06	y	40:07	1.19	4460		-	-	*	
PCB-179	2.36e+05	1.04	y	40:52	1.08	36.5		-	-	*	
PCB-176	7.21e+04	1.13	y	41:18	1.07	11.3	J	-	-	*	
PCB-186	3.23e+04	0.98	y	41:53	1.10	4.91	J	-	-	*	
PCB-178	9.02e+04	1.19	y	42:19	0.75	20.3		-	-	*	
PCB-175	*	*	n	NotFnd	0.74	*		1050	500	3.46	
PCB-187	4.49e+05	0.98	y	42:49	0.85	88.2		-	-	*	Co-elute PCB 182
PCB-182	4.49e+05	0.98	y	42:49	0.85	88.2		-	-	*	Co-elute PCB 187
PCB-183	2.06e+05	1.02	y	43:07	0.82	42.1		-	-	*	
PCB-185	3.41e+04	1.00	y	43:45	0.75	7.60	J	-	-	*	
PCB-174	2.80e+05	1.15	y	44:06	0.78	60.2		-	-	*	
PCB-181	*	*	n	NotFnd	0.74	*		1050	500	3.47	
PCB-177	1.66e+05	1.03	y	44:21	0.68	40.6		-	-	*	
PCB-171	8.06e+04	1.04	y	44:37	0.76	17.8	J	-	-	*	
PCB-173	*	*	n	NotFnd	0.67	*		1050	500	3.85	
PCB-172	5.41e+05	1.06	y	45:23	0.70	129		-	-	*	
PCB-192	2.09e+07	1.05	y	45:35	0.92	3800		-	-	*	
PCB-180	5.65e+05	1.03	y	45:46	0.70	135		-	-	*	
PCB-193	6.04e+04	1.16	y	45:56	0.99	10.2	J	-	-	*	
PCB-191	*	*	n	NotFnd	0.96	*		1050	500	2.67	
PCB-170	1.90e+05	1.03	y	47:04	0.69	46.3		-	-	*	
PCB-190	6.65e+04	1.11	y	47:14	0.95	11.7	J	-	-	*	
PCB-189	*	*	n	NotFnd	1.05	*		1050	500	1.97	
13C-PCB-189	5.96e+07	1.09	y	48:24	0.96	10600					106
PCB-202	4.03e+04	0.81	y	44:47	1.02	8.45	J	-	-	*	
PCB-201	*	*	n	NotFnd	1.06	*		248	592	1.80	
PCB-204	4.57e+07	0.91	y	45:23	1.05	9350		-	-	*	
PCB-197	2.44e+05	0.89	y	45:40	1.06	49.2		-	-	*	
PCB-200	*	*	n	NotFnd	1.09	*		248	592	1.74	
PCB-198	*	*	n	NotFnd	0.78	*		248	592	2.44	
PCB-199	8.75e+04	0.92	y	47:40	0.75	25.1		-	-	*	
PCB-203	8.75e+04	0.91	y	47:55	0.86	21.7		-	-	*	Co-elute PCB 196
PCB-196	8.75e+04	0.91	y	47:55	0.86	21.7		-	-	*	Co-elute PCB 203
13C-PCB-202	4.67e+07	0.90	y	44:47	0.87	9210					92.1
13C-PCB-178	3.85e+07	1.07	y	42:17	0.71	9260					92.6
13C-PCB-138	5.81e+07	1.31	y	41:31	-	101					
PCB-195	4.14e+04	0.86	y	49:02	0.74	7.84	J	-	-	*	
PCB-194	8.81e+04	0.83	y	49:50	0.85	14.6	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.07	*		1060	1350	2.21	
13C-PCB-205	7.13e+07	0.90	y	50:04	1.28	9120					91.2
PCB-208	2.28e+04	1.32	y	49:09	1.06	3.63	J	-	-	*	
13C-PCB-208	5.91e+07	0.82	y	49:07	1.22	7960					79.6
PCB-207	2.39e+05	1.32	y	49:27	1.16	39.1		-	-	*	
PCB-206	2.75e+04	1.18	y	51:17	1.06	5.62	J	-	-	*	
13C-PCB-206	4.60e+07	0.82	y	51:16	0.91	8250					82.5
PCB-209	2.74e+05	1.15	y	52:28	1.12	43.5		-	-	*	
13C-PCB-209	5.61e+07	1.20	y	52:26	1.14	8070					80.7
13C-PCB-194	6.10e+07	0.90	y	49:48	-	116					

Analyst: _____ Date: 8/6/19

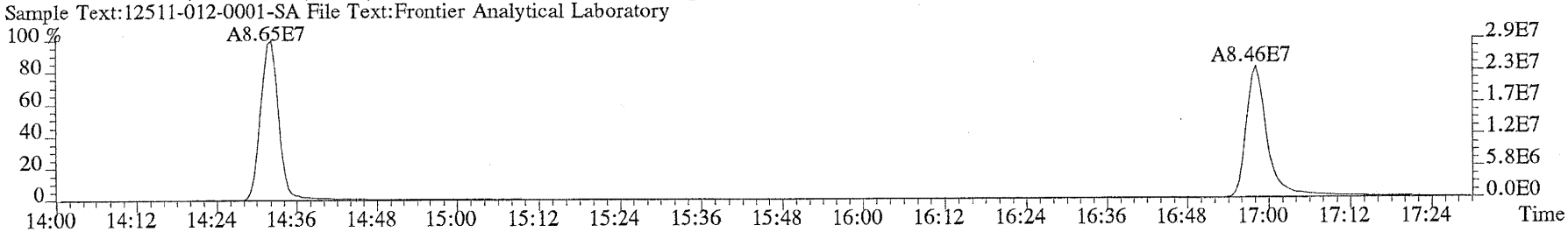
File:05AUG19Z #1-784 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



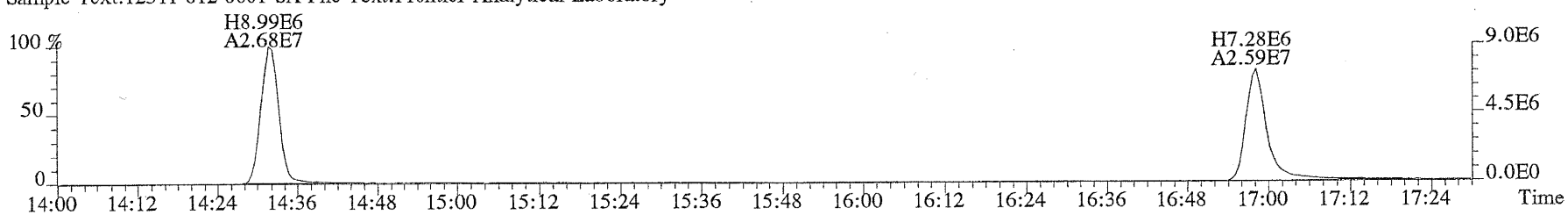
File:05AUG19Z #1-784 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



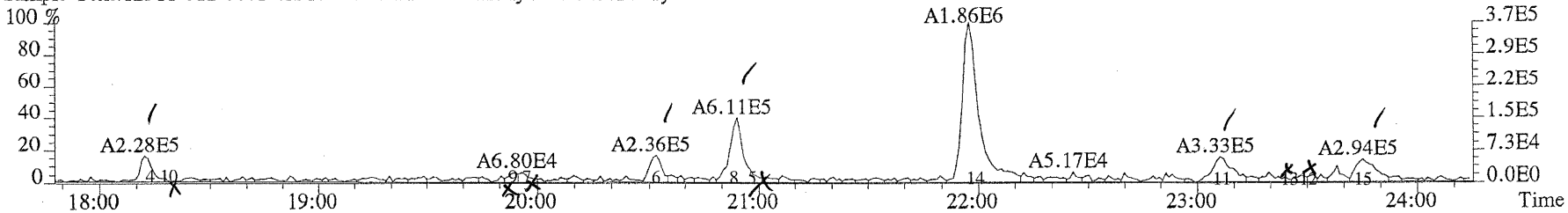
File:05AUG19Z #1-784 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



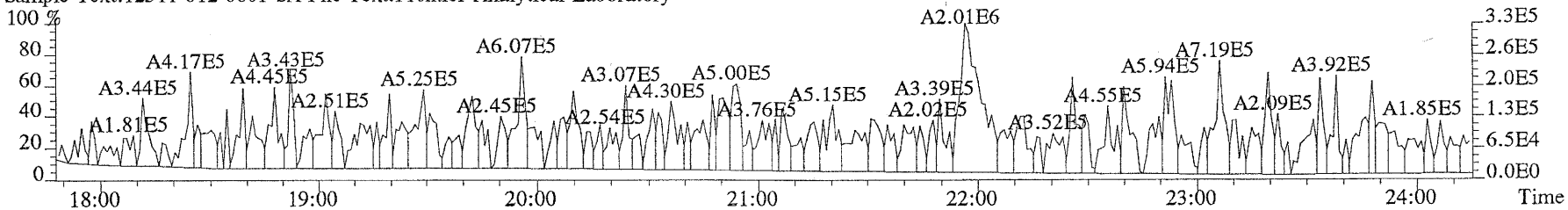
File:05AUG19Z #1-784 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



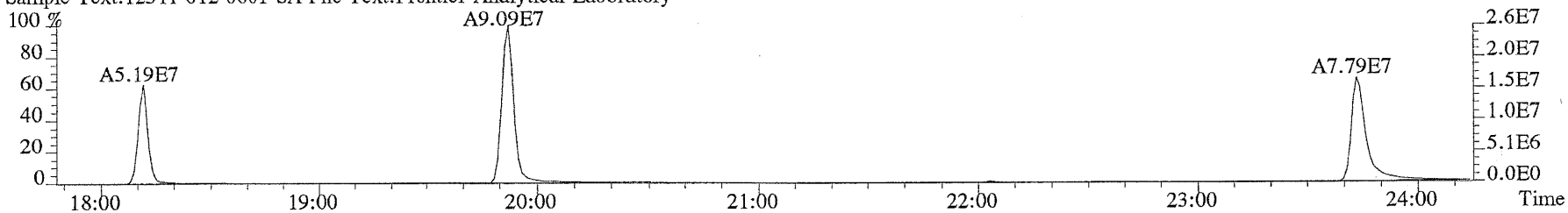
File:05AUG19Z #1-520 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



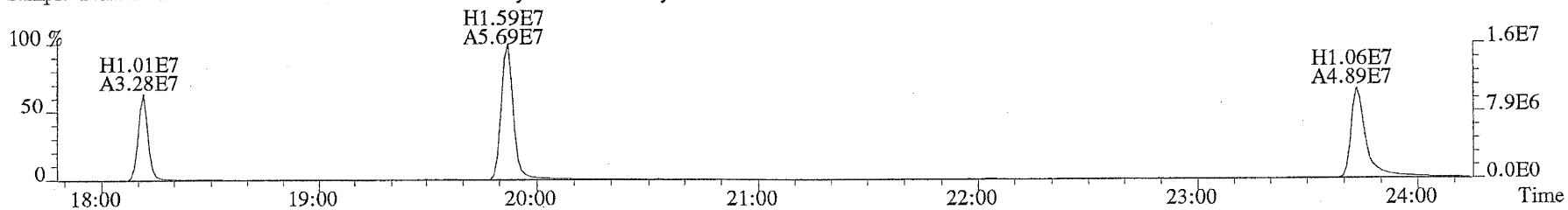
File:05AUG19Z #1-520 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



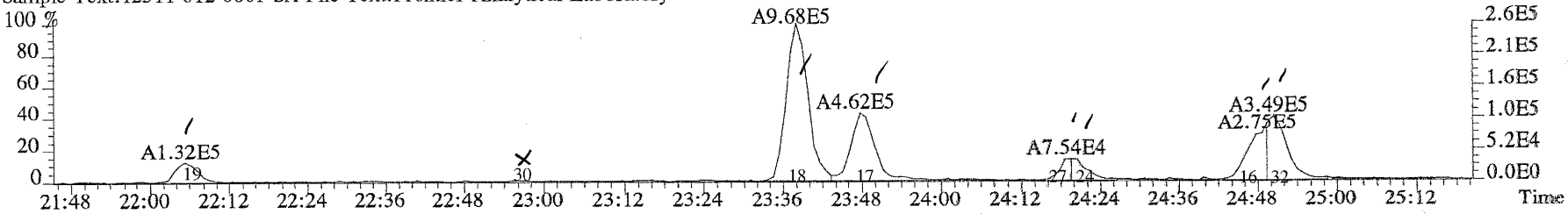
File:05AUG19Z #1-520 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



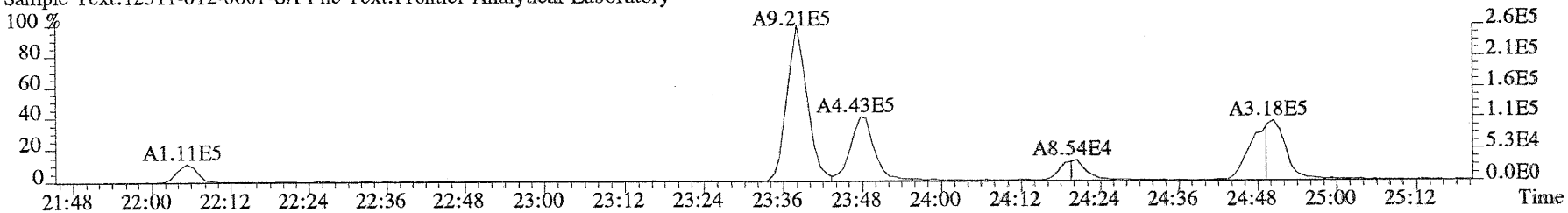
File:05AUG19Z #1-520 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



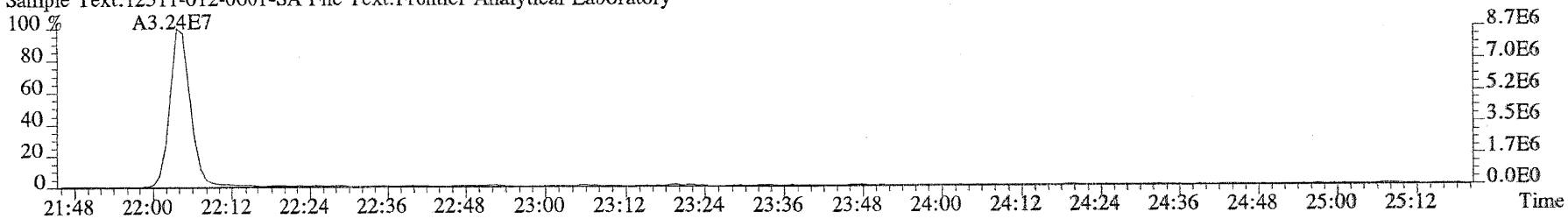
File:05AUG19Z #1-520 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



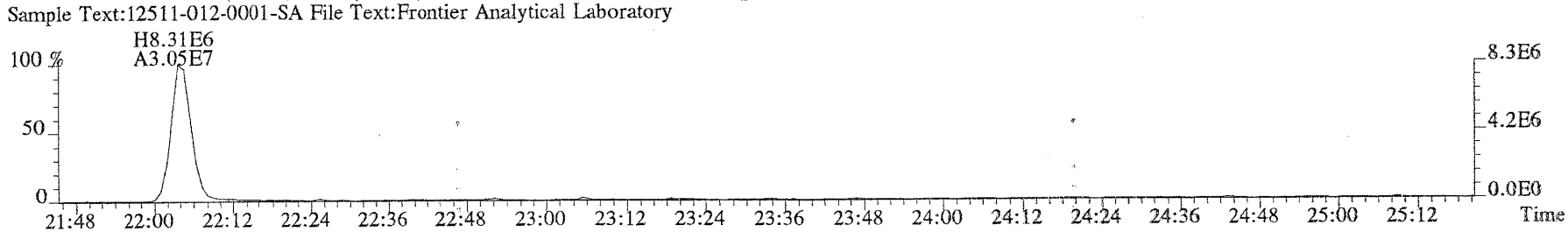
File:05AUG19Z #1-520 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



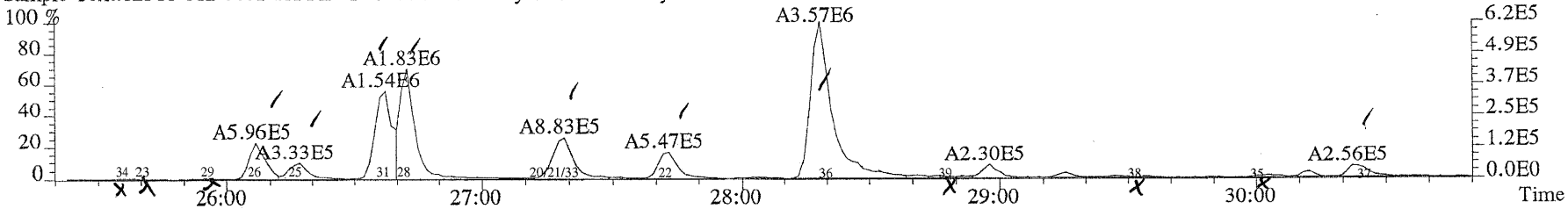
File:05AUG19Z #1-520 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



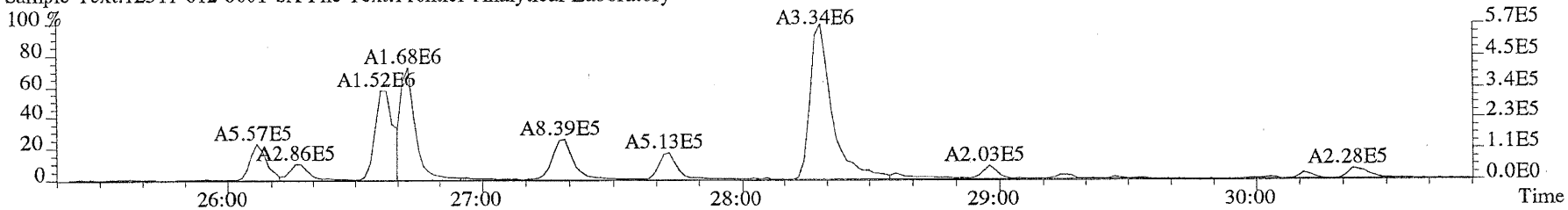
File:05AUG19Z #1-520 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



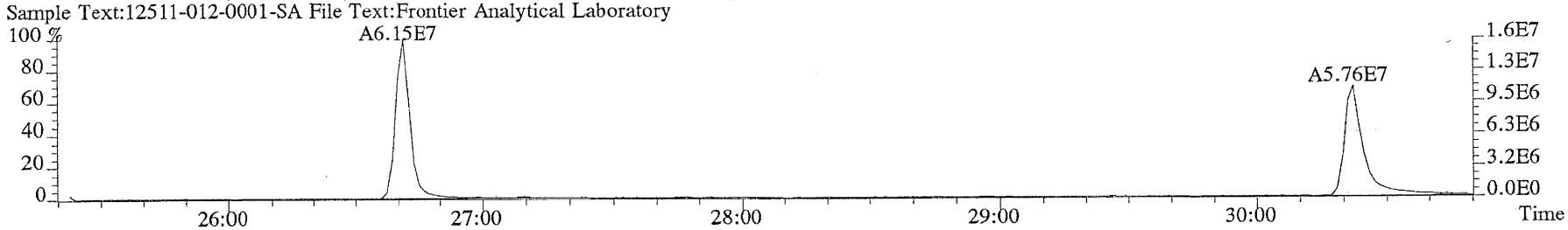
File:05AUG19Z #1-401 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



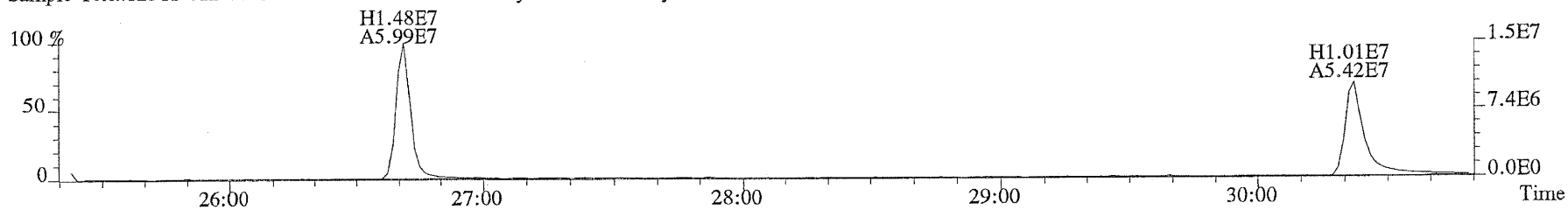
File:05AUG19Z #1-401 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



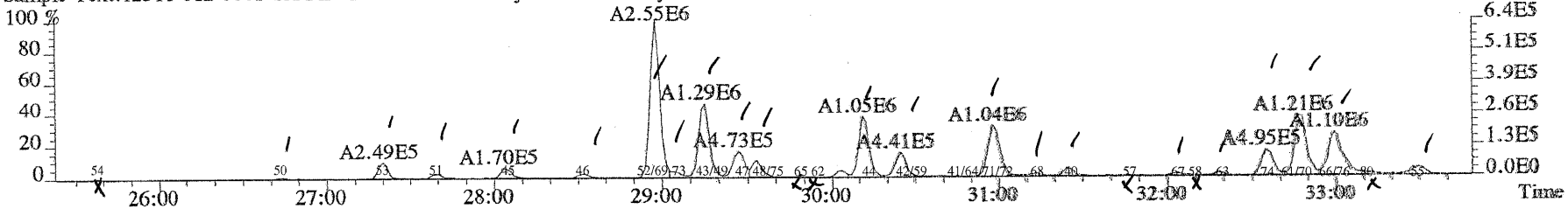
File:05AUG19Z #1-401 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



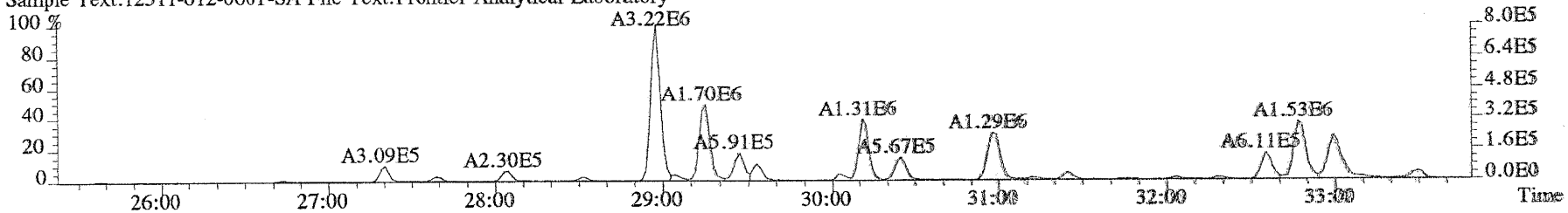
File:05AUG19Z #1-401 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



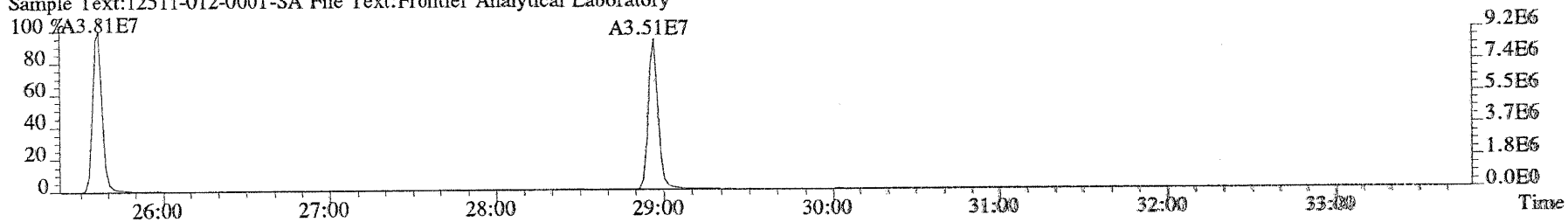
File:05AUG19Z #1-401 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



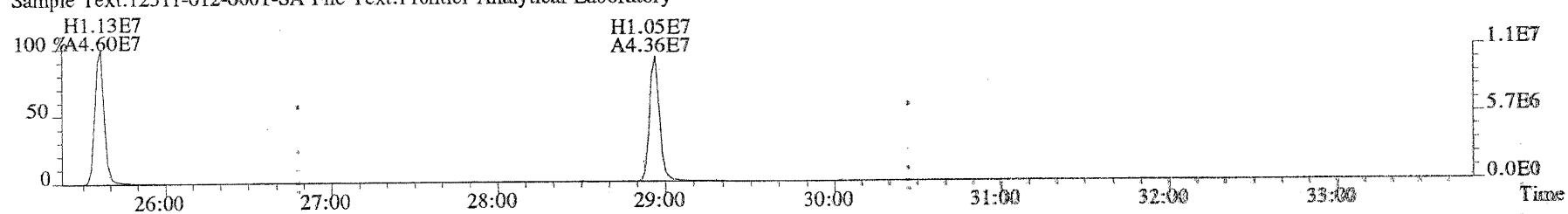
File:05AUG19Z #1-401 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



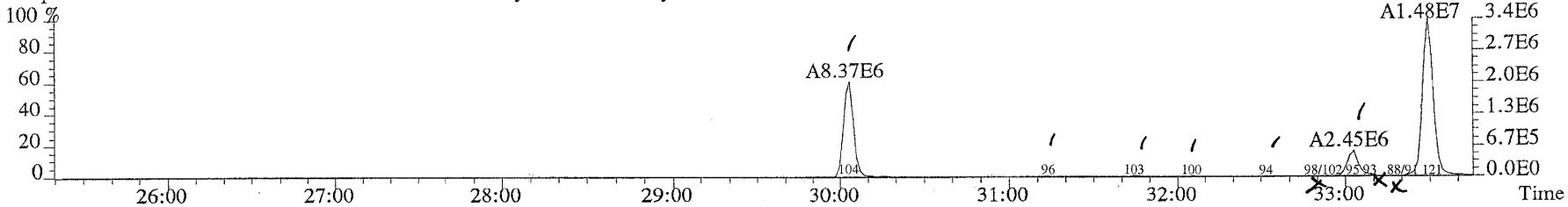
File:05AUG19Z #1-401 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



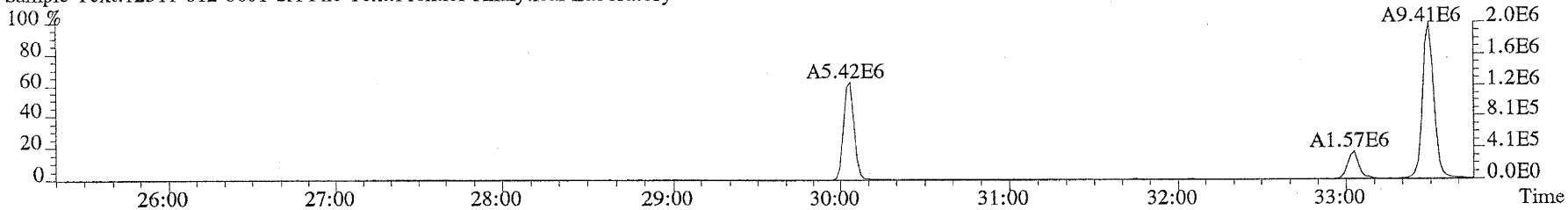
File:05AUG19Z #1-401 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



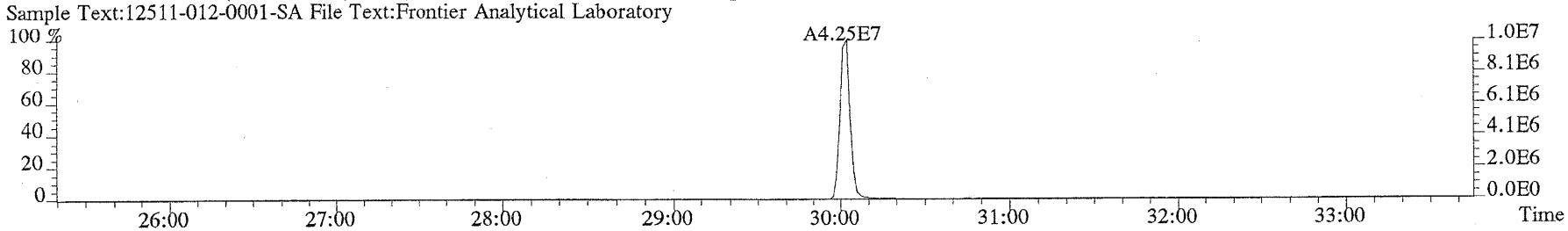
File:05AUG19Z #1-401 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



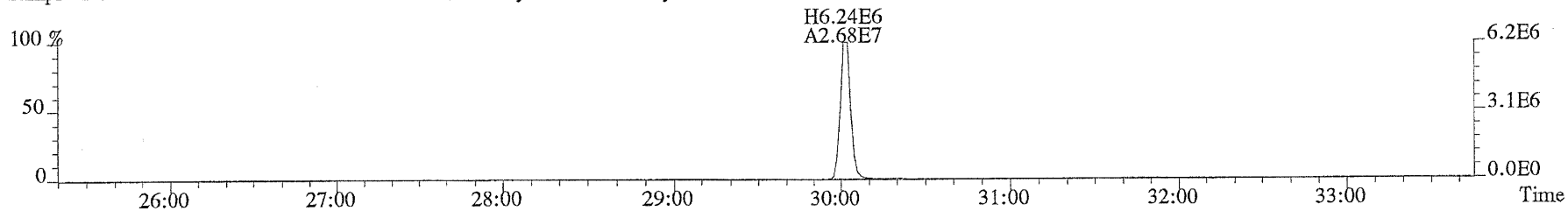
File:05AUG19Z #1-401 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



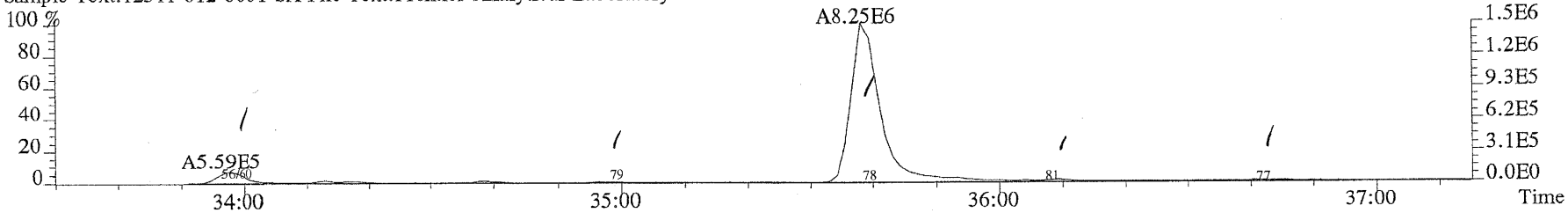
File:05AUG19Z #1-401 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



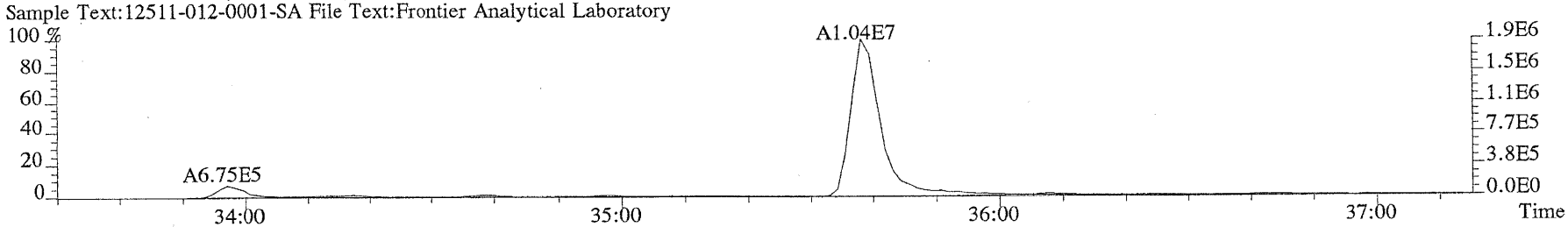
File:05AUG19Z #1-401 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



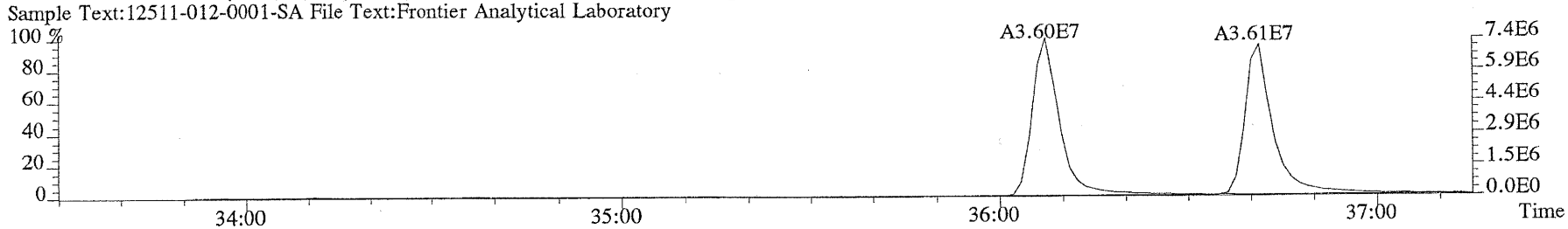
File:05AUG19Z #1-181 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



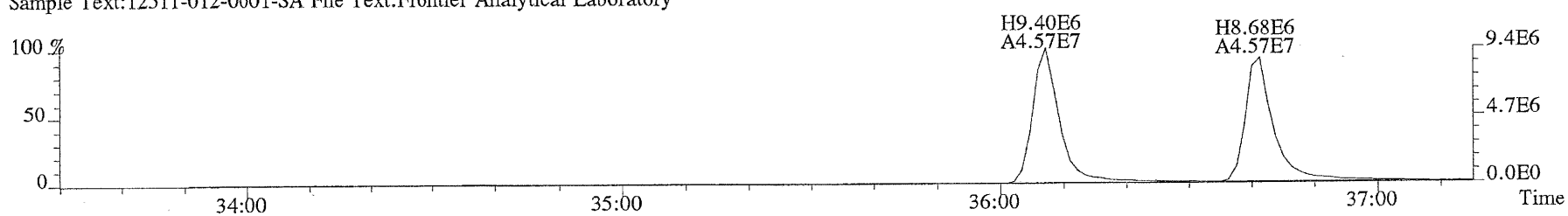
File:05AUG19Z #1-181 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



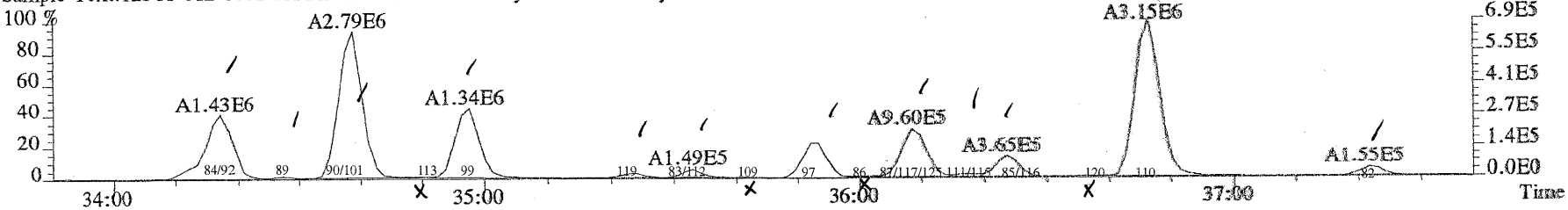
File:05AUG19Z #1-181 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



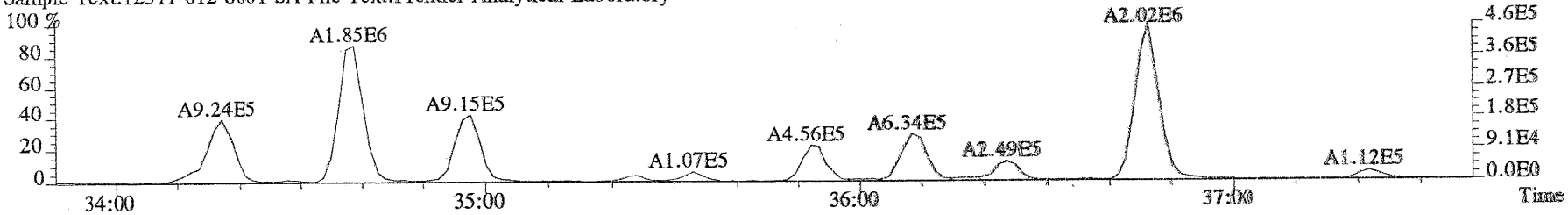
File:05AUG19Z #1-181 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



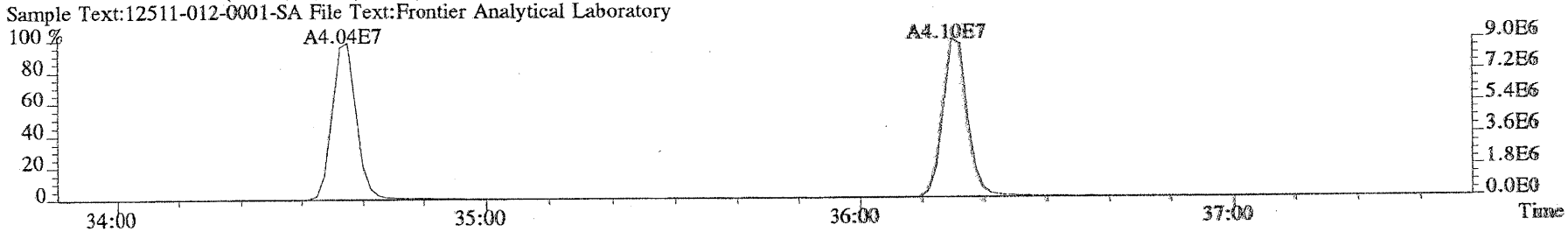
File:05AUG19Z #1-181 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



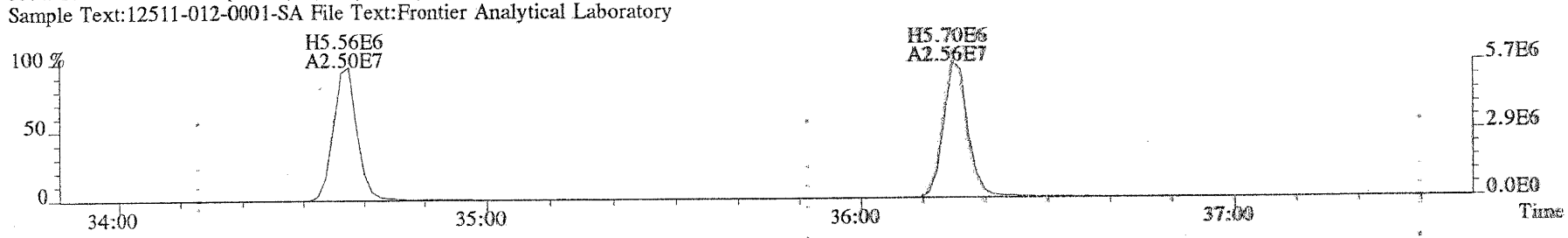
File:05AUG19Z #1-181 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



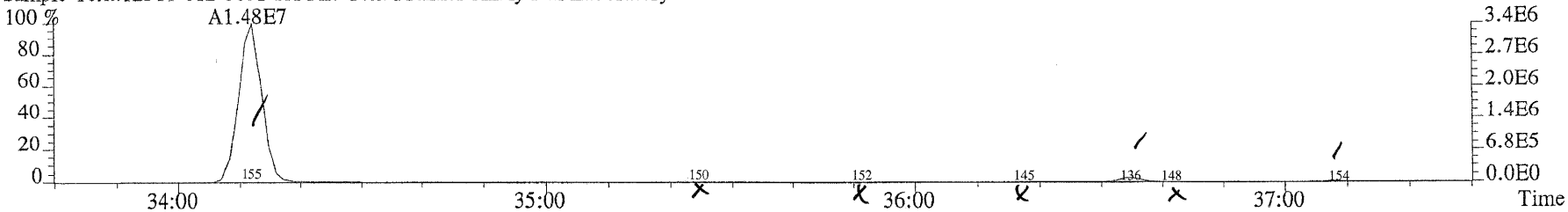
File:05AUG19Z #1-181 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



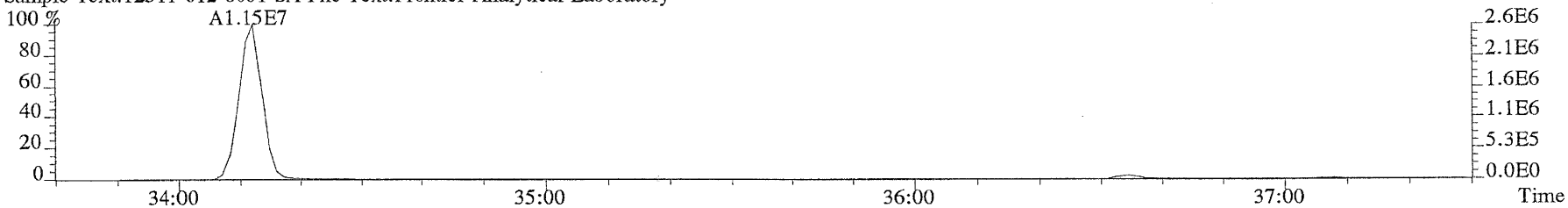
File:05AUG19Z #1-181 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



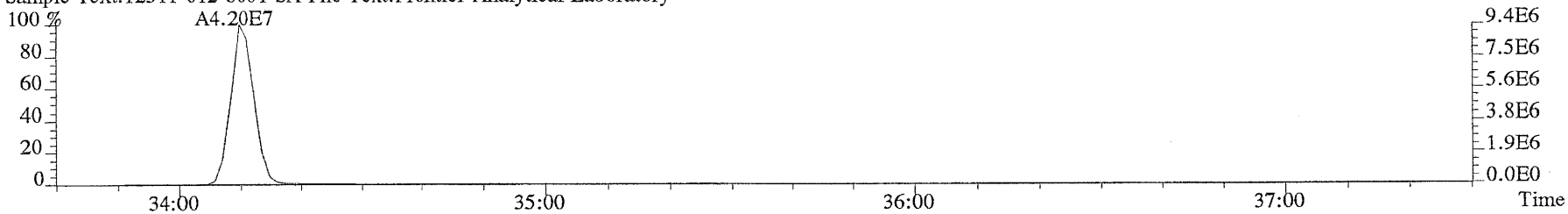
File:05AUG19Z #1-181 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



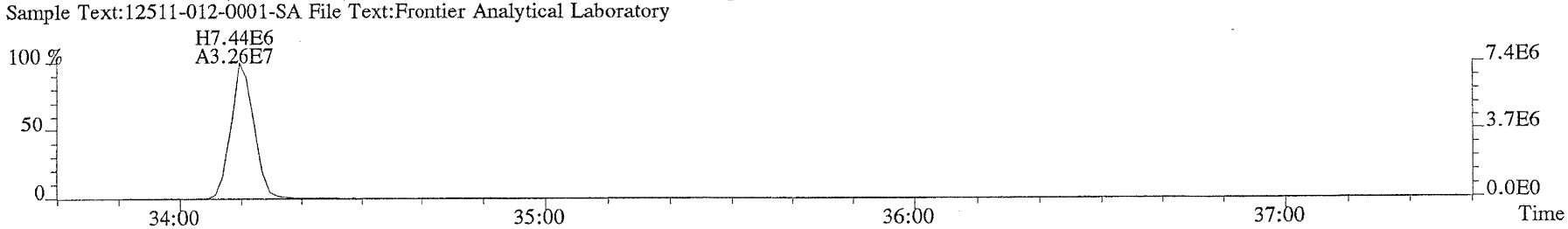
File:05AUG19Z #1-181 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-181 Acq: 5-AUG-2019 14:27:06 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:12511-012-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-181 Acq: 5-AUG-2019 14:27:06 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:12511-012-0001-SA File Text:Frontier Analytical Laboratory



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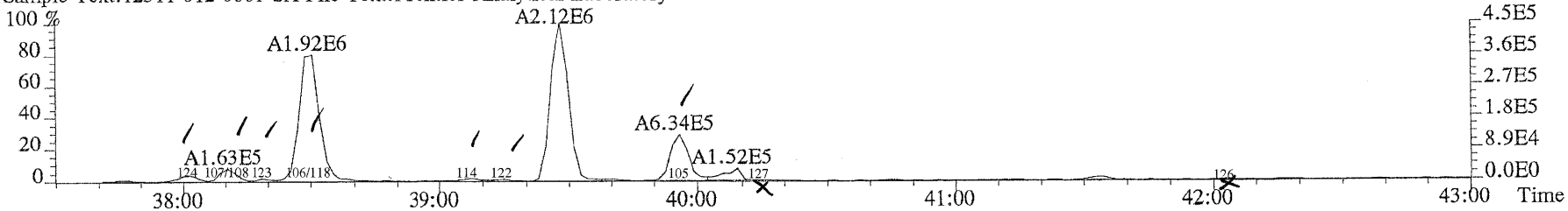
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



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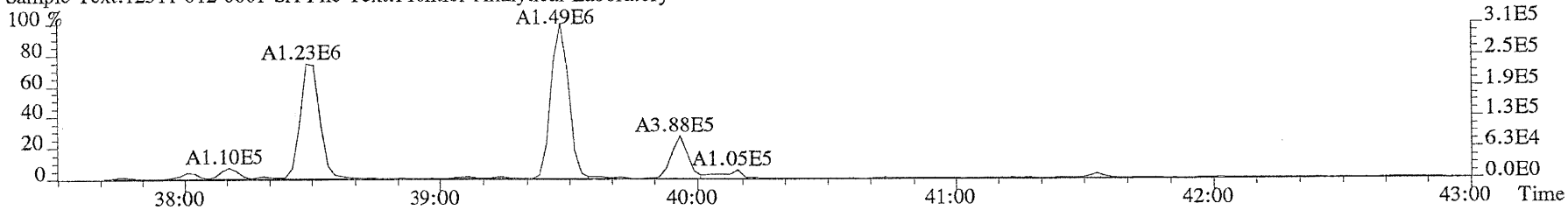
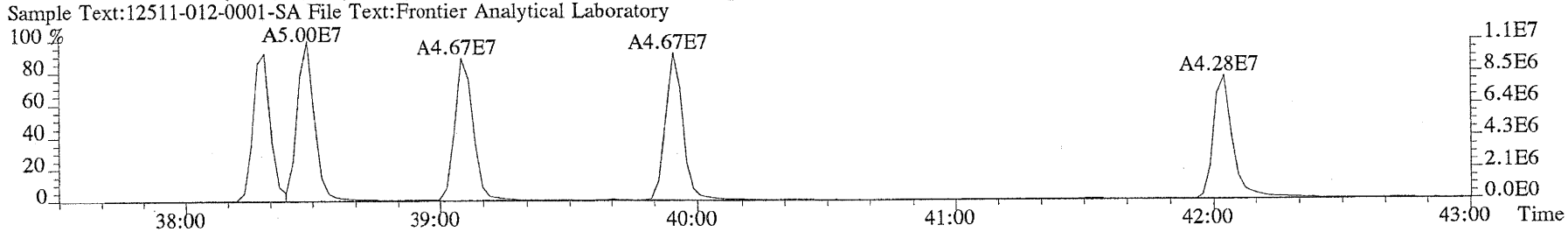
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-405 Acq: 5-AUG-2019 14:27:06 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:12511-012-0001-SA File Text:Frontier Analytical Laboratory



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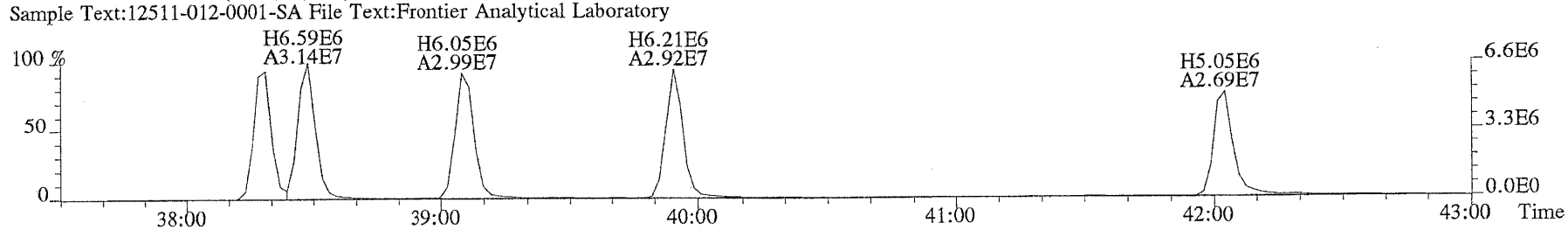
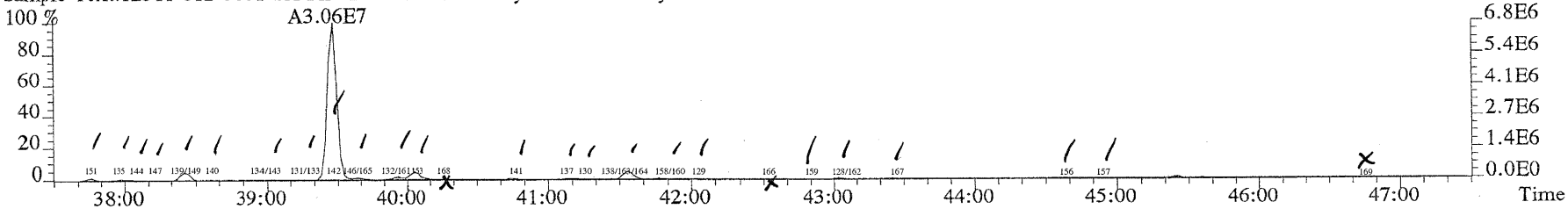
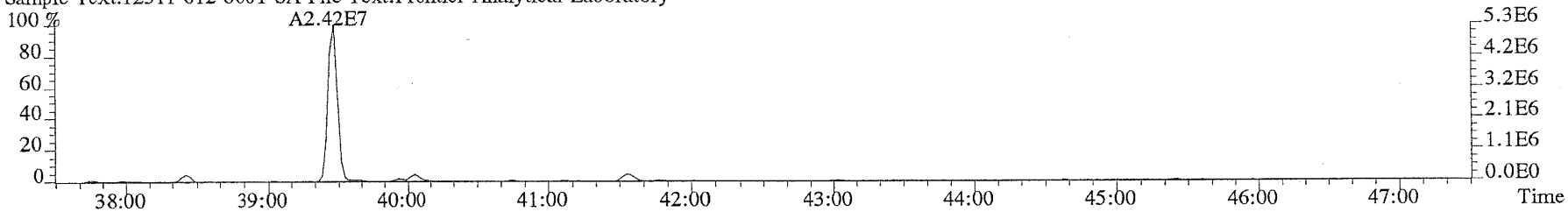
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



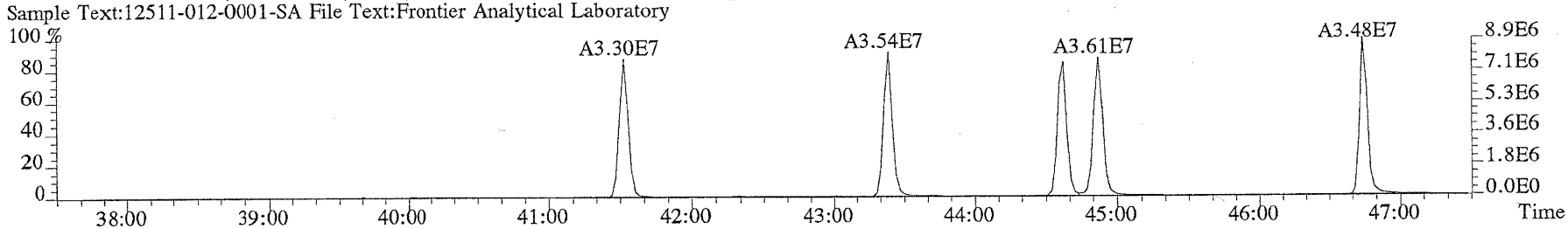
File:05AUG19Z #1-405 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



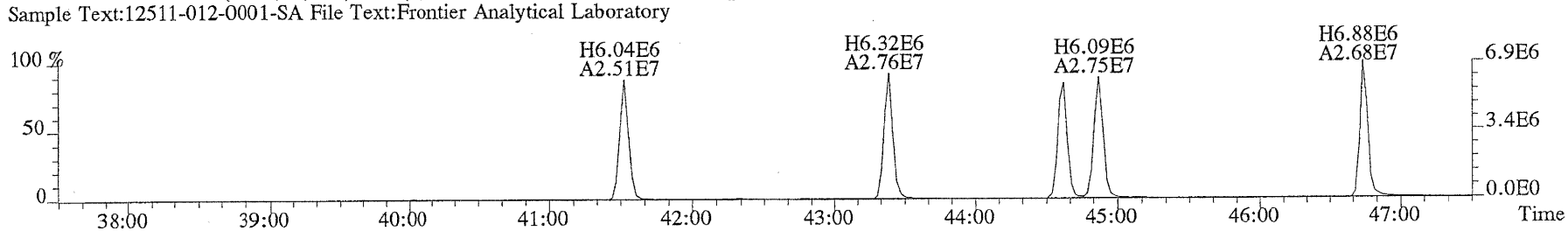
File:05AUG19Z #1-405 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



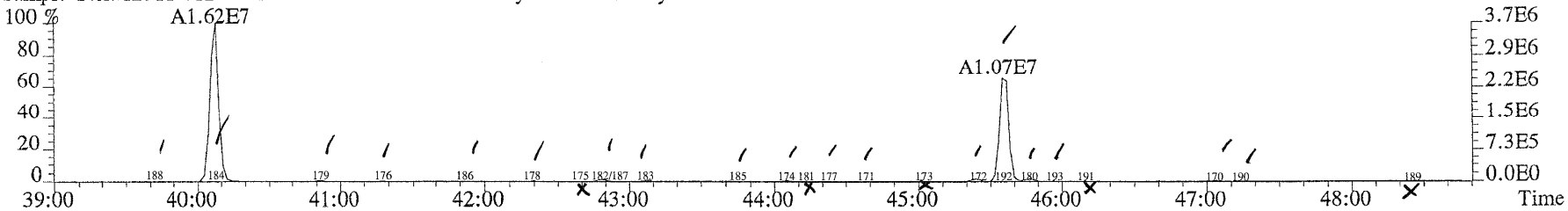
File:05AUG19Z #1-405 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



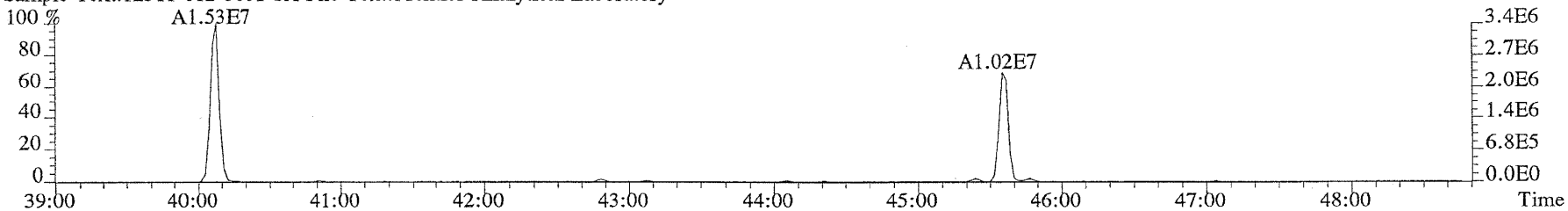
File:05AUG19Z #1-405 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-405 Acq: 5-AUG-2019 14:27:06 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:12511-012-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-405 Acq: 5-AUG-2019 14:27:06 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:12511-012-0001-SA File Text:Frontier Analytical Laboratory



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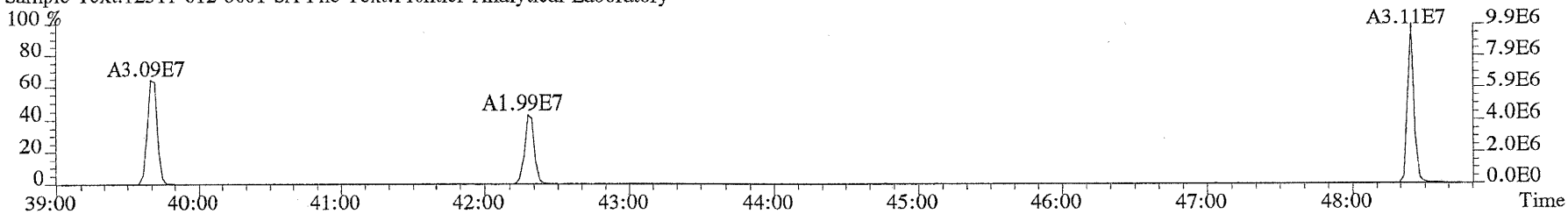
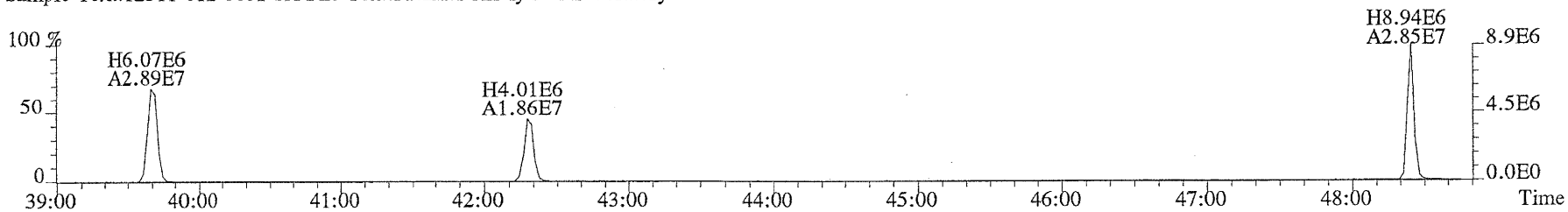
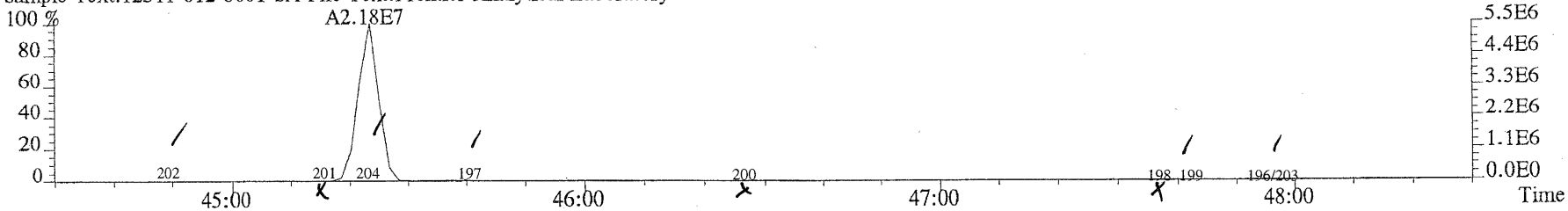
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



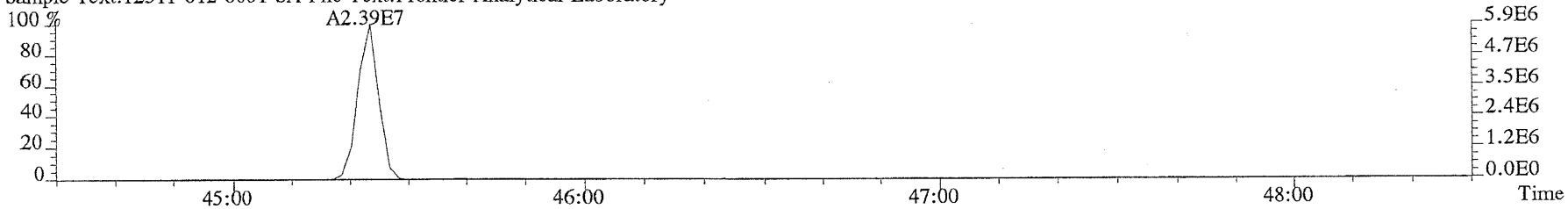
File:05AUG19Z #1-405 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



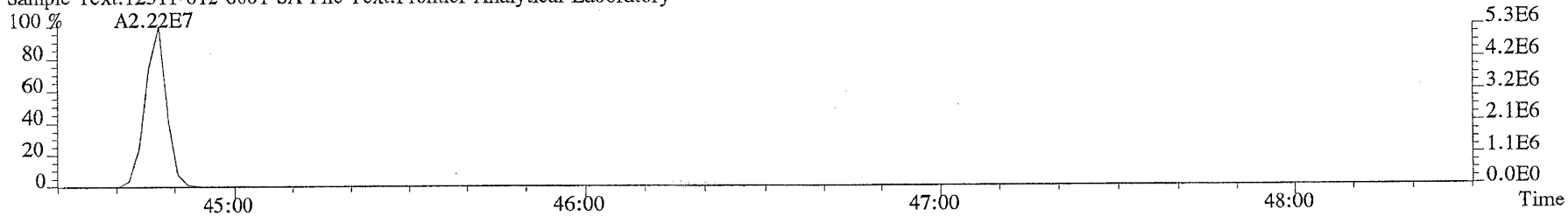
File:05AUG19Z #1-405 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



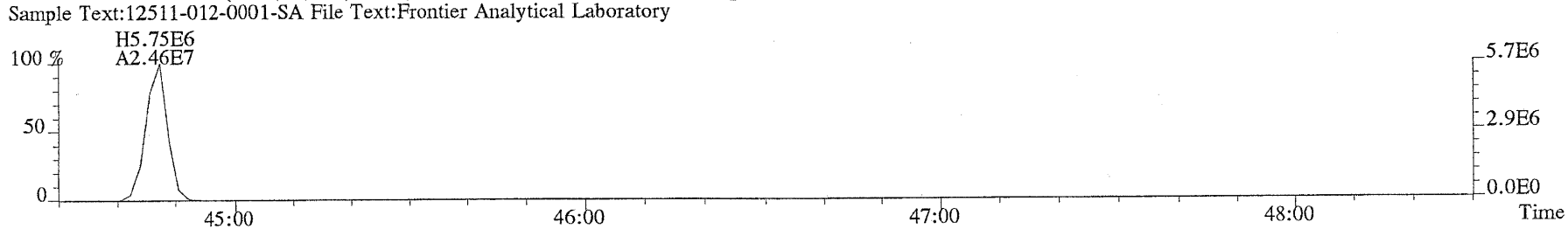
File:05AUG19Z #1-405 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



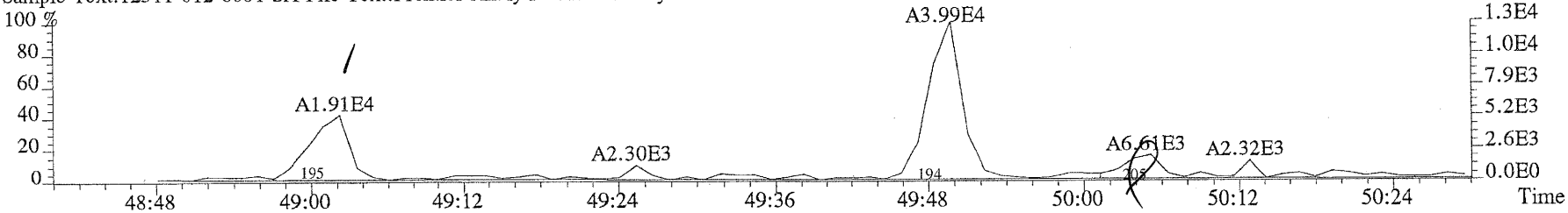
File:05AUG19Z #1-405 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-405 Acq: 5-AUG-2019 14:27:06 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:12511-012-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 14:27:06 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:12511-012-0001-SA File Text:Frontier Analytical Laboratory



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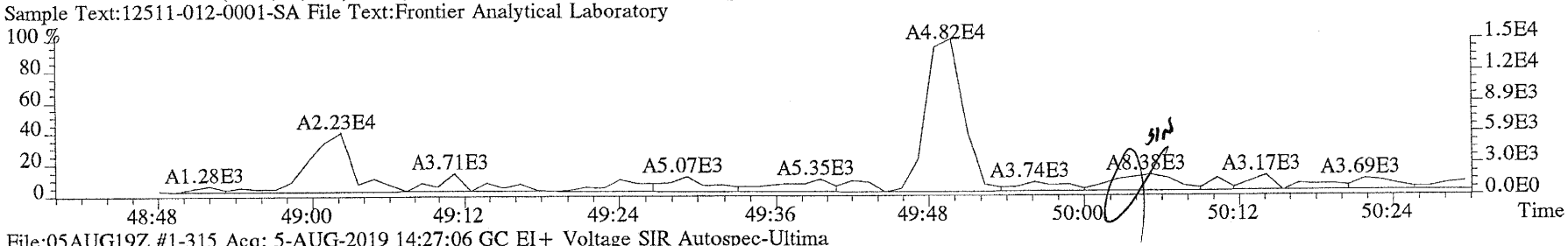
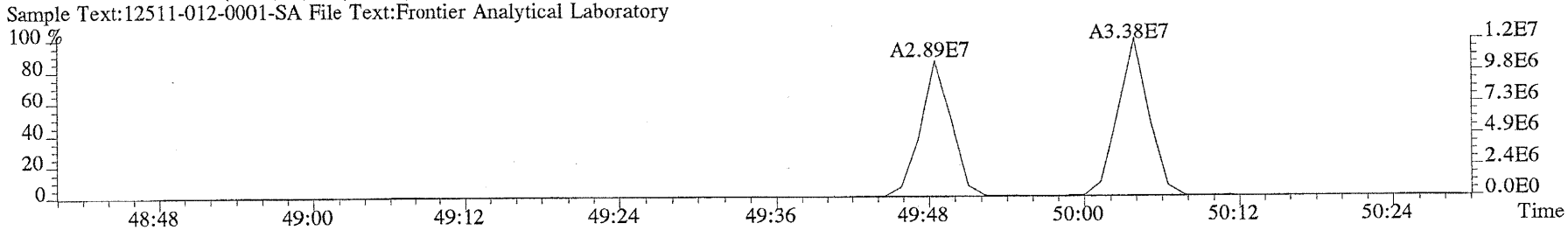
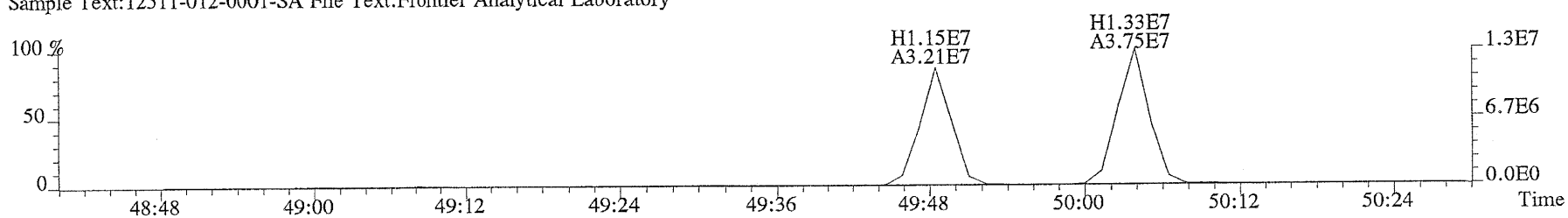
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



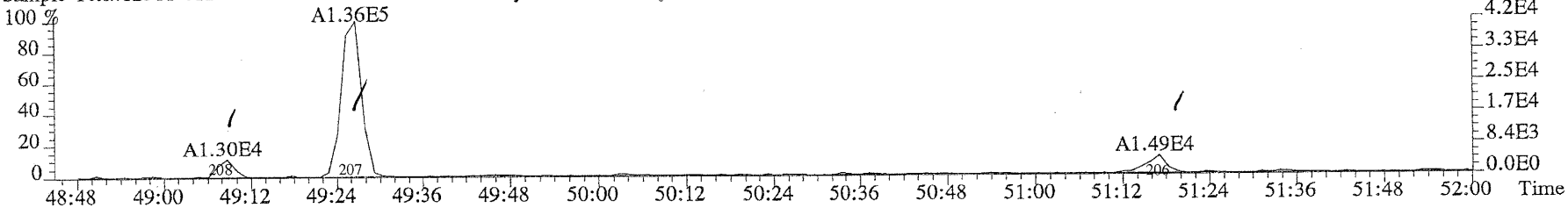
File:05AUG19Z #1-315 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



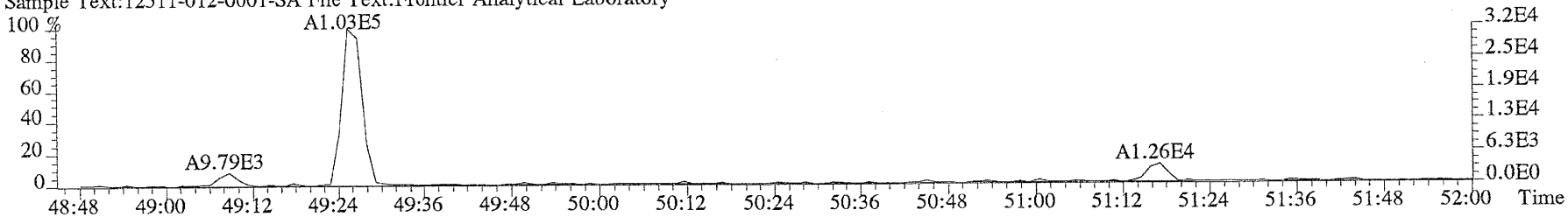
File:05AUG19Z #1-315 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



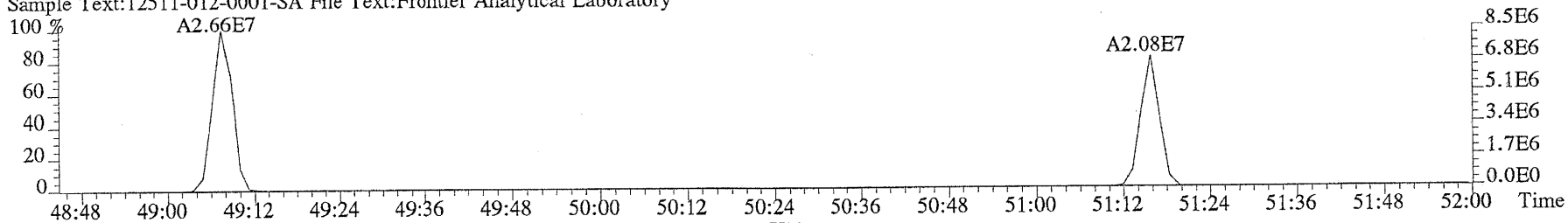
File:05AUG19Z #1-315 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



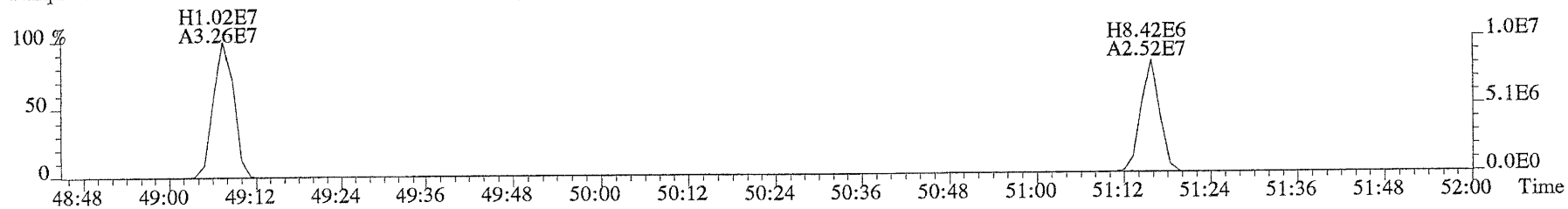
File:05AUG19Z #1-315 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



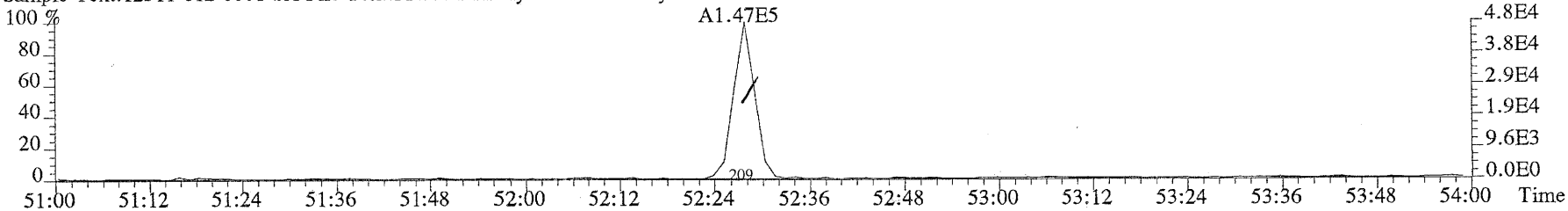
File:05AUG19Z #1-315 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



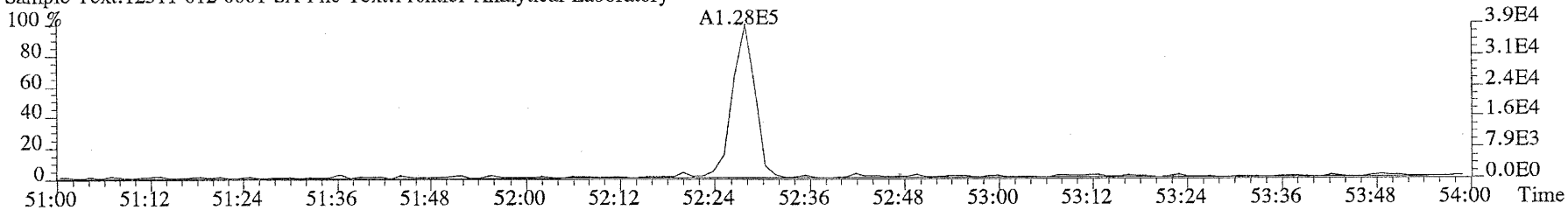
File:05AUG19Z #1-315 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



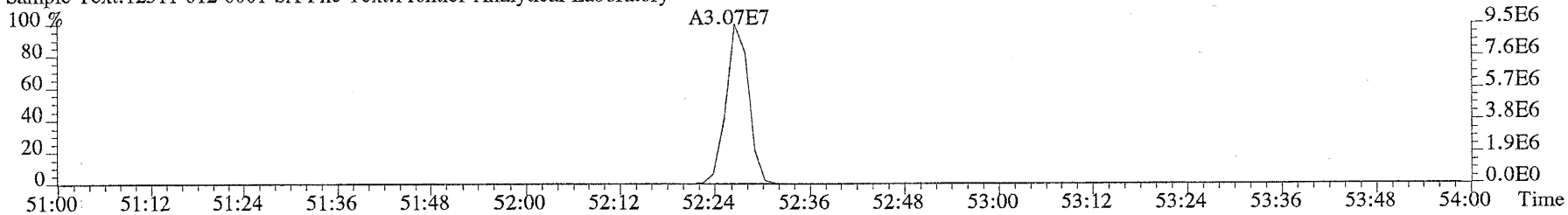
File:05AUG19Z #1-315 Acq: 5-AUG-2019 14:27:06 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 14:27:06 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:12511-012-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 14:27:06 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:12511-012-0001-SA File Text:Frontier Analytical Laboratory



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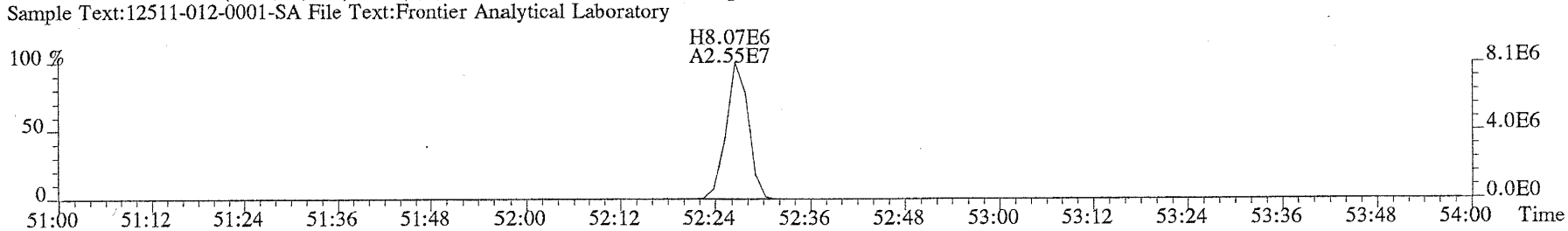
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-012-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12511-015-0001-SA Filename: 05AUG19Z Sam:9 Acquired: 5-AUG-19 17:22:59 ICal: DAILY209FAL4-8-5-19
Client ID: LDW-Y2-IN-ENR-CA-SSWI 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	*	*	n	NotFnd	1.19	*		3310	2660	3.64		
13C-PCB-1	1.05e+08	3.17	y	14:31	0.92	8180					81.8	
PCB-2	*	*	n	NotFnd	1.17	*		3810	2660	4.56		
PCB-3	*	*	n	NotFnd	1.22	*		3810	2660	4.95		
13C-PCB-3	9.91e+07	3.22	y	16:58	0.87	8180					81.8	
PCB-4	4.54e+05	1.66	y	18:13	1.25	47.9		-	-	*		
PCB-10	*	*	n	NotFnd	1.30	*		890	9870	8.86		
13C-PCB-4	7.59e+07	1.57	y	18:11	0.71	7620					76.2	
PCB-9	*	*	n	NotFnd	1.37	*		890	9870	8.44		
PCB-7	*	*	n	NotFnd	1.36	*		890	9870	8.45		
PCB-6	6.02e+05	1.43	y	20:31	1.59	40.0		-	-	*		
PCB-8	9.14e+05	1.37	y	20:54	1.33	72.6		-	-	*		
PCB-5	*	*	n	NotFnd	1.34	*		890	9870	8.58		
PCB-14	2.67e+06	1.53	y	21:57	1.30	217		-	-	*		
PCB-11	4.30e+05	1.51	y	23:08	1.18	38.6		-	-	*		
PCB-13	*	*	n	NotFnd	1.24	*		890	9870	9.32		
PCB-12	*	*	n	NotFnd	1.25	*		890	9870	9.24		
PCB-15	4.80e+05	1.57	y	23:46	1.12	38.0		-	-	*		
13C-PCB-15	1.13e+08	1.59	y	23:44	0.95	8500					85.0	
PCB-19	2.14e+05	1.07	y	22:05	1.19	32.2		-	-	*		
PCB-30	*	*	n	NotFnd	1.71	*		1870	608	2.32		
PCB-18	1.65e+06	1.09	y	23:38	1.13	261		-	-	*		
PCB-17	7.70e+05	1.10	y	23:48	1.27	108		-	-	*		
PCB-27	1.33e+05	1.18	y	24:19	1.58	15.0	J	-	-	*		
PCB-24	1.96e+05	1.05	y	24:20	1.67	20.9		-	-	*		
PCB-16	4.74e+05	1.07	y	24:49	1.24	68.4		-	-	*		
PCB-32	5.06e+05	1.06	y	24:50	1.60	56.4		-	-	*		
13C-PCB-19	5.60e+07	1.11	y	22:04	0.50	7990					79.9	
13C-PCB-9	1.40e+08	1.62	y	19:52	-	82.5						
PCB-34	*	*	n	NotFnd	1.28	*		1600	1560	3.62		
PCB-23	*	*	n	NotFnd	1.28	*		1600	1560	3.60		
PCB-29	*	*	n	NotFnd	1.29	*		1600	1560	3.58		
PCB-26	1.26e+06	1.09	y	26:07	1.26	108		-	-	*		
PCB-25	6.49e+05	1.09	y	26:17	1.26	55.9		-	-	*		
PCB-31	2.58e+06	1.04	y	26:37	1.26	223		-	-	*		
PCB-28	3.35e+06	1.06	y	26:42	1.55	234		-	-	*		
PCB-20	1.33e+06	1.03	y	27:19	1.25	115		-	-	*	Co-elute PCB 21/33	
PCB-21	1.33e+06	1.03	y	27:19	1.25	115		-	-	*	Co-elute PCB 20/33	
PCB-33	1.33e+06	1.03	y	27:19	1.25	115		-	-	*	Co-elute PCB 20/21	
PCB-22	8.30e+05	0.99	y	27:43	1.38	65.3		-	-	*		
PCB-36	5.36e+06	1.04	y	28:18	1.23	474		-	-	*		
PCB-39	*	*	n	NotFnd	1.23	*		1600	1560	3.77		
PCB-38	*	*	n	NotFnd	1.26	*		1600	1560	3.68		
PCB-35	*	*	n	NotFnd	1.11	*		1600	1560	4.17		
PCB-37	4.32e+05	1.14	y	30:23	1.16	40.5		-	-	*		
13C-PCB-37	9.22e+07	1.13	y	30:22	1.52	8400					84.0	

PCB-54	*	*	n	NotFnd	1.23	*		948	1260	2.18	
PCB-50	6.79e+04	0.78	y	26:43	0.93	9.28	J	-	-	*	
PCB-53	5.43e+05	0.77	y	27:20	0.91	76.3		-	-	*	
PCB-51	1.68e+05	0.70	y	27:39	0.92	23.2		-	-	*	
PCB-45	3.86e+05	0.77	y	28:04	0.78	63.3		-	-	*	
PCB-46	1.37e+05	0.84	y	28:32	0.74	23.5		-	-	*	
PCB-52	5.63e+06	0.79	y	28:57	0.89	806		-	-	*	Co-elute PCB 69
PCB-69	5.63e+06	0.79	y	28:57	0.89	806		-	-	*	Co-elute PCB 52
PCB-73	2.11e+05	0.84	y	29:04	1.15	23.4		-	-	*	
PCB-43	3.00e+06	0.80	y	29:15	0.79	484		-	-	*	Co-elute PCB 49
PCB-49	3.00e+06	0.80	y	29:15	0.79	484		-	-	*	Co-elute PCB 43
PCB-47	1.01e+06	0.77	y	29:26	0.87	148		-	-	*	
PCB-48	6.21e+05	0.81	y	29:33	1.00	79.2		-	-	*	Co-elute PCB 75
PCB-75	6.21e+05	0.81	y	29:33	1.00	79.2		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*		948	1260	2.66	
PCB-62	*	*	n	NotFnd	1.07	*		948	1260	2.49	
PCB-44	2.13e+06	0.80	y	30:12	0.68	398		-	-	*	
PCB-42	9.28e+05	0.81	y	30:24	0.90	131		-	-	*	Co-elute PCB 59
PCB-59	9.28e+05	0.81	y	30:24	0.90	131		-	-	*	Co-elute PCB 42
PCB-72	2.26e+06	0.77	y	30:59	0.99	292		-	-	*	Co-elute PCB 41/71/64
PCB-41	2.26e+06	0.77	y	30:59	0.99	292		-	-	*	Co-elute PCB 72/71/64
PCB-71	2.26e+06	0.77	y	30:59	0.99	292		-	-	*	Co-elute PCB 72/41/64
PCB-64	2.26e+06	0.77	y	30:59	0.99	292		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.26e+05	0.80	y	31:14	1.12	14.3	J	-	-	*	
PCB-40	2.66e+05	0.80	y	31:25	0.63	53.5		-	-	*	
PCB-57	5.59e+04	0.82	y	31:45	1.03	6.95	J	-	-	*	
PCB-67	1.17e+05	0.71	y	32:03	0.95	15.7	J	-	-	*	
PCB-58	*	*	n	NotFnd	1.11	*		948	1260	2.41	
PCB-63	1.30e+05	0.88	y	32:18	1.02	16.3	J	-	-	*	
PCB-74	1.11e+06	0.80	y	32:36	0.99	144		-	-	*	
PCB-61	2.55e+06	0.80	y	32:47	0.95	341		-	-	*	Co-elute PCB 70
PCB-70	2.55e+06	0.80	y	32:47	0.95	341		-	-	*	Co-elute PCB 61
PCB-76	2.55e+06	0.84	y	32:59	1.06	305		-	-	*	Co-elute PCB 66
PCB-66	2.55e+06	0.84	y	32:59	1.06	305		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.20	*		948	1260	2.22	
PCB-55	4.62e+05	0.80	y	33:29	1.04	56.3		-	-	*	
13C-PCB-54	7.84e+07	0.81	y	25:36	1.36	7980					79.8
PCB-104	1.23e+07	1.57	y	30:03	1.10	1860		-	-	*	
PCB-96	5.20e+04	1.51	y	31:14	1.03	8.32	J	-	-	*	
PCB-103	8.13e+04	1.51	y	31:44	0.81	16.5	J	-	-	*	
PCB-100	6.91e+04	1.35	y	32:06	0.81	14.0	J	-	-	*	
PCB-94	2.77e+04	1.62	y	32:32	0.67	6.85	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.68	*		368	400	1.85	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.68	*		368	400	1.85	Co-elute PCB 98
PCB-95	4.15e+06	1.54	y	33:02	0.78	884		-	-	*	
PCB-93	*	*	n	NotFnd	0.73	*		368	400	1.72	
PCB-88	*	*	n	NotFnd	0.76	*		368	400	1.66	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.76	*		368	400	1.66	Co-elute PCB 88
PCB-121	2.32e+07	1.54	y	33:29	0.94	4070		-	-	*	
13C-PCB-104	6.05e+07	1.55	y	30:02	1.05	8010					80.1
13C-PCB-28	1.17e+08	1.09	y	26:41	1.82	8940					89.4
13C-PCB-52	7.22e+07	0.81	y	28:56	-	88.9					

PCB-56	1.22e+06	0.81	y	33:58	1.14	136		-	-	*	Co-elute PCB 60
PCB-60	1.22e+06	0.81	y	33:58	1.14	136		-	-	*	Co-elute PCB 56
PCB-79	8.32e+04	0.87	y	34:57	1.22	8.72	J	-	-	*	
PCB-78	1.77e+07	0.78	y	35:39	1.17	1940		-	-	*	
PCB-81	2.84e+05	0.85	y	36:08	1.29	26.3		-	-	*	
13C-PCB-81	8.36e+07	0.79	y	36:07	1.32	9890					98.9
PCB-77	2.08e+05	0.83	y	36:45	1.11	25.8		-	-	*	
13C-PCB-77	7.25e+07	0.83	y	36:41	1.39	8170					81.7
PCB-155	2.67e+07	1.25	y	34:12	1.03	3540		-	-	*	
PCB-150	*	*	n	NotFnd	0.96	*		584	352	1.33	
PCB-152	*	*	n	NotFnd	0.95	*		584	352	1.35	
PCB-145	*	*	n	NotFnd	0.90	*		584	352	1.43	
PCB-136	6.19e+05	1.28	y	36:35	0.97	86.7		-	-	*	
PCB-148	*	*	n	NotFnd	0.60	*		584	352	2.15	
PCB-154	1.40e+05	1.13	y	37:07	0.78	24.4		-	-	*	
13C-PCB-155	7.34e+07	1.28	y	34:10	1.43	8020					80.2
13C-PCB-111	6.81e+07	1.59	y	36:16	1.12	9540					95.4
13C-PCB-101	6.40e+07	1.62	y	34:37	-	102					
PCB-84	2.38e+06	1.63	y	34:17	0.86	394		-	-	*	Co-elute PCB 92
PCB-92	2.38e+06	1.63	y	34:17	0.86	394		-	-	*	Co-elute PCB 84
PCB-89	6.27e+04	1.64	y	34:28	0.88	10.0	J	-	-	*	
PCB-90	4.84e+06	1.59	y	34:38	0.89	768		-	-	*	Co-elute PCB 101
PCB-101	4.84e+06	1.59	y	34:38	0.89	768		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.06	*		1330	1230	3.92	
PCB-99	2.16e+06	1.60	y	34:57	0.97	315		-	-	*	
PCB-119	1.97e+05	1.43	y	35:24	1.07	26.0		-	-	*	
PCB-83	2.58e+05	1.47	y	35:33	0.87	41.7		-	-	*	Co-elute PCB 112
PCB-112	2.58e+05	1.47	y	35:33	0.87	41.7		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.01	*		1330	1230	4.09	
PCB-97	1.08e+06	1.51	y	35:53	0.68	224		-	-	*	
PCB-86	5.32e+04	1.52	y	36:02	0.77	9.73	J	-	-	*	
PCB-125	1.79e+06	1.58	y	36:09	0.90	282		-	-	*	Co-elute PCB 87/117
PCB-87	1.79e+06	1.58	y	36:09	0.90	282		-	-	*	Co-elute PCB 125/117
PCB-117	1.79e+06	1.58	y	36:09	0.90	282		-	-	*	Co-elute PCB 125/87
PCB-111	1.21e+05	1.53	y	36:18	1.04	16.6	J	-	-	*	Co-elute PCB 115
PCB-115	1.21e+05	1.53	y	36:18	1.04	16.6	J	-	-	*	Co-elute PCB 111
PCB-85	7.05e+05	1.67	y	36:23	0.85	117		-	-	*	Co-elute PCB 116
PCB-116	7.05e+05	1.67	y	36:23	0.85	117		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.04	*		1330	1230	4.00	
PCB-110	6.00e+06	1.57	y	36:46	0.99	857		-	-	*	
PCB-82	3.13e+05	1.64	y	37:23	0.57	77.6		-	-	*	
PCB-124	1.65e+05	1.45	y	38:02	1.12	20.7		-	-	*	
PCB-108	3.01e+05	1.58	y	38:10	1.10	38.5		-	-	*	Co-elute PCB 107
PCB-107	3.01e+05	1.58	y	38:10	1.10	38.5		-	-	*	Co-elute PCB 108
PCB-123	6.08e+04	1.54	y	38:20	1.03	8.79	J	-	-	*	
13C-PCB-123	6.70e+07	1.58	y	38:18	1.30	9090					90.9
PCB-118	3.40e+06	1.52	y	38:30	1.06	428		-	-	*	Co-elute PCB 106
PCB-106	3.40e+06	1.52	y	38:30	1.06	428		-	-	*	Co-elute PCB 118
13C-PCB-118	7.50e+07	1.59	y	38:28	1.44	9230					92.3
PCB-114	9.29e+04	1.64	y	39:06	1.19	10.8	J	-	-	*	
13C-PCB-114	7.25e+07	1.62	y	39:06	1.33	9620					96.2
PCB-122	4.70e+04	1.56	y	39:14	1.06	6.24	J	-	-	*	
PCB-105	1.14e+06	1.75	y	39:55	1.11	150		-	-	*	
13C-PCB-105	6.83e+07	1.60	y	39:54	1.36	8850					88.5

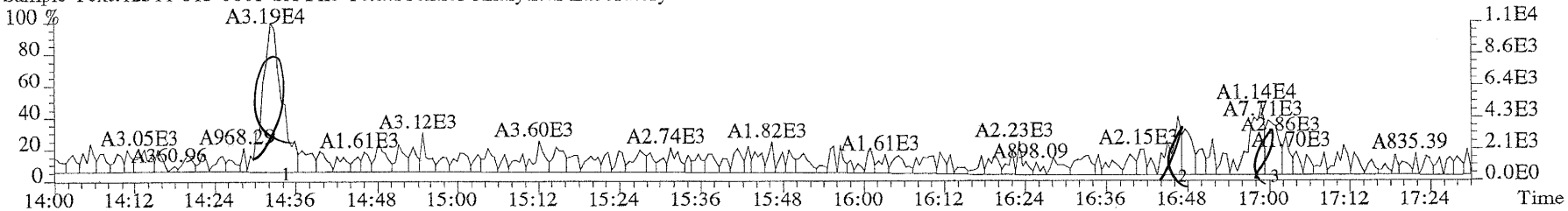
PCB-127	*	*	n	NotFnd	1.03	*		1080	1180	3.54	
PCB-126	*	*	n	NotFnd	1.08	*		1080	1180	3.91	
13C-PCB-126	6.38e+07	1.59	y	42:02	1.24	9060					90.6
PCB-151	6.64e+05	1.25	y	37:45	0.84	145		-	-	*	
PCB-135	4.34e+05	1.36	y	37:57	0.91	87.4		-	-	*	
PCB-144	1.39e+05	1.39	y	38:04	0.96	26.5		-	-	*	
PCB-147	8.08e+04	1.31	y	38:12	1.00	14.8	J	-	-	*	
PCB-139	2.37e+06	1.26	y	38:25	1.08	403		-	-	*	Co-elute PCB 149
PCB-149	2.37e+06	1.26	y	38:25	1.08	403		-	-	*	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	1.01	*		1010	672	3.30	
PCB-143	1.95e+05	1.34	y	39:03	0.84	42.5		-	-	*	Co-elute PCB 134
PCB-134	1.95e+05	1.34	y	39:03	0.84	42.5		-	-	*	Co-elute PCB 143
PCB-131	8.80e+04	1.20	y	39:18	0.86	18.8	J	-	-	*	Co-elute PCB 133
PCB-133	8.80e+04	1.20	y	39:18	0.86	18.8	J	-	-	*	Co-elute PCB 131
PCB-142	4.88e+07	1.26	y	39:27	0.83	10800		-	-	*	
PCB-165	7.10e+05	1.30	y	39:39	1.14	114		-	-	*	Co-elute PCB 146
PCB-146	7.10e+05	1.30	y	39:39	1.14	114		-	-	*	Co-elute PCB 165
PCB-161	8.65e+05	1.07	y	39:55	1.06	149		-	-	*	Co-elute PCB 132
PCB-132	8.65e+05	1.07	y	39:55	1.06	149		-	-	*	Co-elute PCB 161
PCB-153	2.82e+06	1.23	y	40:04	1.15	450		-	-	*	
PCB-168	*	*	n	NotFnd	1.23	*		1010	672	2.70	
PCB-141	4.32e+05	1.18	y	40:45	0.90	88.0		-	-	*	
PCB-137	1.38e+05	1.22	y	41:08	0.84	29.9		-	-	*	
PCB-130	1.81e+05	1.39	y	41:13	0.89	37.3		-	-	*	
PCB-138	2.91e+06	1.27	y	41:33	1.15	463		-	-	*	Co-elute PCB 163/164
PCB-163	2.91e+06	1.27	y	41:33	1.15	463		-	-	*	Co-elute PCB 138/164
PCB-164	2.91e+06	1.27	y	41:33	1.15	463		-	-	*	Co-elute PCB 138/163
PCB-158	3.34e+05	1.34	y	41:47	1.23	49.7		-	-	*	Co-elute PCB 160
PCB-160	3.34e+05	1.34	y	41:47	1.23	49.7		-	-	*	Co-elute PCB 158
PCB-129	1.08e+05	1.14	y	42:02	0.81	24.4		-	-	*	
PCB-166	*	*	n	NotFnd	1.18	*		1010	672	2.82	
PCB-159	6.76e+04	1.42	y	42:48	1.28	9.70	J	-	-	*	
PCB-128	4.14e+05	1.30	y	43:03	1.04	72.8		-	-	*	Co-elute PCB 162
PCB-162	4.14e+05	1.30	y	43:03	1.04	72.8		-	-	*	Co-elute PCB 128
PCB-167	8.90e+04	1.11	y	43:24	1.13	15.5	J	-	-	*	
13C-PCB-167	5.11e+07	1.31	y	43:23	1.10	8220					82.2
PCB-156	2.18e+05	1.26	y	44:39	1.20	33.4		-	-	*	
13C-PCB-156	5.42e+07	1.29	y	44:37	1.05	9070					90.7
PCB-157	7.06e+04	1.35	y	44:53	1.12	10.7	J	-	-	*	
13C-PCB-157	5.89e+07	1.28	y	44:52	1.13	9160					91.6
PCB-169	*	*	n	NotFnd	1.07	*		1010	672	2.91	
13C-PCB-169	5.43e+07	1.28	y	46:44	1.06	9020					90.2

FAL ID: 12511-015-0001-SA Filename: 05AUG19Z Sam:9 Acquired: 5-AUG-19 17:22:59 ICal: DAILY209FAL4-8-5-19
Client ID: LDW-Y2-IN-ENR-CA-SSWI ConCal: ST080519Z1 EndCal: ST080519Z2
Results: 12512-12 GC Column: DB1MS Amount: 1.000

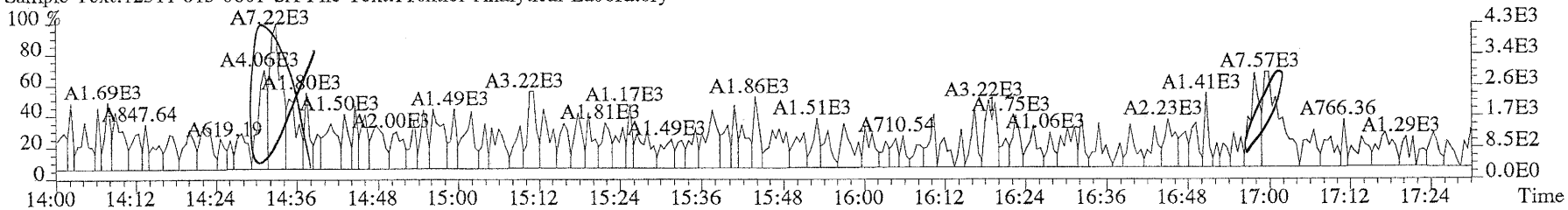
PCB-188	5.27e+04	1.11	y	39:42	1.08	8.86	J	-	-	*	
13C-PCB-188	5.53e+07	1.07	y	39:41	1.13	8610					86.1
PCB-184	2.86e+07	1.06	y	40:07	1.19	4540		-	-	*	
PCB-179	2.20e+05	1.13	y	40:51	1.08	38.3		-	-	*	
PCB-176	7.06e+04	1.19	y	41:18	1.07	12.4	J	-	-	*	
PCB-186	3.16e+04	1.00	y	41:52	1.10	5.40	J	-	-	*	
PCB-178	7.61e+04	1.13	y	42:20	0.75	19.2	J	-	-	*	
PCB-175	*	*	n	NotFnd	0.74	*		776	428	2.96	
PCB-187	4.13e+05	1.12	y	42:48	0.85	91.2		-	-	*	Co-elute PCB 182
PCB-182	4.13e+05	1.12	y	42:48	0.85	91.2		-	-	*	Co-elute PCB 187
PCB-183	1.87e+05	1.00	y	43:06	0.82	42.8		-	-	*	
PCB-185	4.37e+04	1.12	y	43:44	0.75	11.0	J	-	-	*	
PCB-174	2.33e+05	1.18	y	44:06	0.78	56.4		-	-	*	
PCB-181	4.35e+04	1.17	y	44:11	0.74	11.0	J	-	-	*	
PCB-177	1.42e+05	1.10	y	44:20	0.68	39.1		-	-	*	
PCB-171	7.71e+04	1.17	y	44:39	0.76	19.2	J	-	-	*	
PCB-173	*	*	n	NotFnd	0.67	*		776	428	3.30	
PCB-172	4.64e+05	0.99	y	45:23	0.70	125		-	-	*	
PCB-192	1.89e+07	1.05	y	45:36	0.92	3860		-	-	*	
PCB-180	5.54e+05	1.08	y	45:46	0.70	149		-	-	*	
PCB-193	6.99e+04	1.12	y	45:56	0.99	13.3	J	-	-	*	
PCB-191	*	*	n	NotFnd	0.96	*		776	428	2.29	
PCB-170	1.85e+05	1.00	y	47:03	0.69	50.6		-	-	*	
PCB-190	5.30e+04	1.01	y	47:13	0.95	10.5	J	-	-	*	
PCB-189	*	*	n	NotFnd	1.05	*		776	428	1.78	
13C-PCB-189	5.08e+07	1.07	y	48:24	0.96	9300					93.0
PCB-202	3.38e+04	0.93	y	44:48	1.02	7.99	J	-	-	*	
PCB-201	*	*	n	NotFnd	1.06	*		300	544	1.97	
PCB-204	4.01e+07	0.93	y	45:23	1.05	9240		-	-	*	
PCB-197	2.47e+05	0.87	y	45:39	1.06	56.1		-	-	*	
PCB-200	*	*	n	NotFnd	1.09	*		300	544	1.91	
PCB-198	*	*	n	NotFnd	0.78	*		300	544	2.67	
PCB-199	7.78e+04	0.87	y	47:40	0.75	25.2		-	-	*	
PCB-203	6.81e+04	0.95	y	47:56	0.86	19.1	J	-	-	*	Co-elute PCB 196
PCB-196	6.81e+04	0.95	y	47:56	0.86	19.1	J	-	-	*	Co-elute PCB 203
13C-PCB-202	4.15e+07	0.92	y	44:47	0.87	8380					83.8
13C-PCB-178	3.72e+07	1.06	y	42:19	0.71	9190					91.9
13C-PCB-138	5.66e+07	1.30	y	41:31	-	98.4					
PCB-195	3.24e+04	0.99	y	49:01	0.74	7.01	J	-	-	*	
PCB-194	7.66e+04	0.84	y	49:49	0.85	14.5	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.07	*		576	1250	1.83	
13C-PCB-205	6.24e+07	0.90	y	50:04	1.28	8890					88.9
PCB-208	*	*	n	NotFnd	1.06	*		1210	1150	2.99	
13C-PCB-208	5.71e+07	0.82	y	49:07	1.22	8560					85.6
PCB-207	2.25e+05	1.31	y	49:26	1.16	39.5		-	-	*	
PCB-206	2.51e+04	1.51	y	51:17	1.06	5.80	J	-	-	*	
13C-PCB-206	4.07e+07	0.82	y	51:15	0.91	8130					81.3
PCB-209	2.47e+05	1.22	y	52:27	1.12	44.5		-	-	*	
13C-PCB-209	4.93e+07	1.19	y	52:26	1.14	7890					78.9
13C-PCB-194	5.48e+07	0.90	y	49:48	-	104					

Analyst: _____ Date: 8/7/19

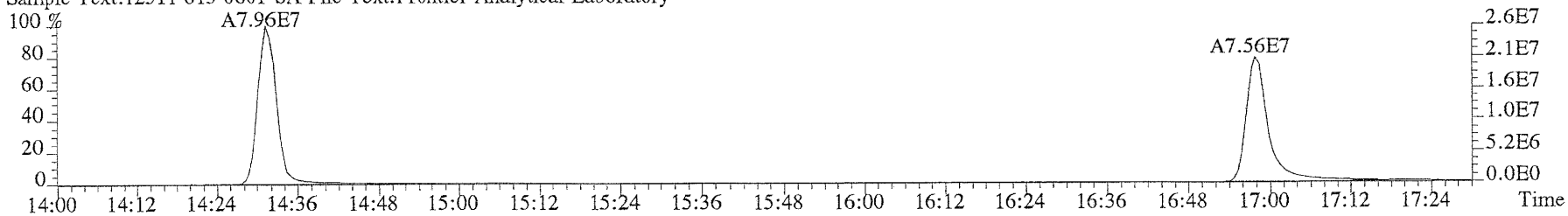
File:05AUG19Z #1-783 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



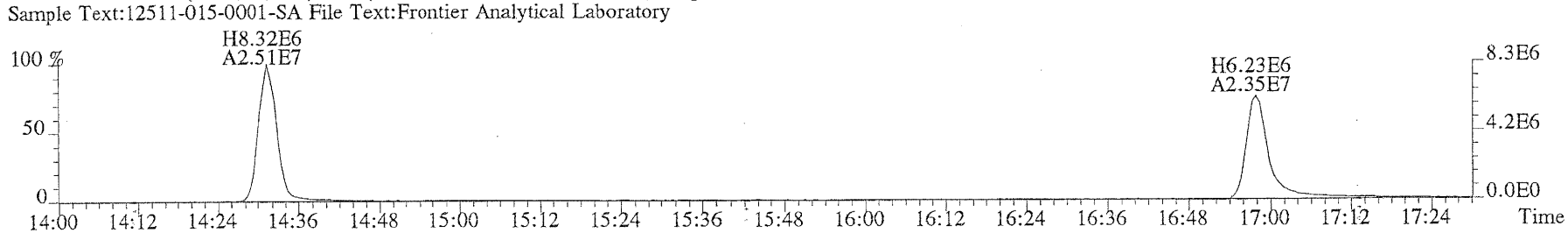
File:05AUG19Z #1-783 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



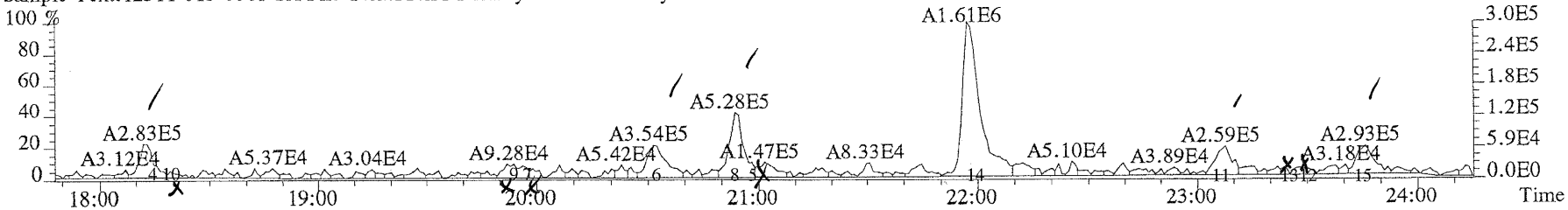
File:05AUG19Z #1-783 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



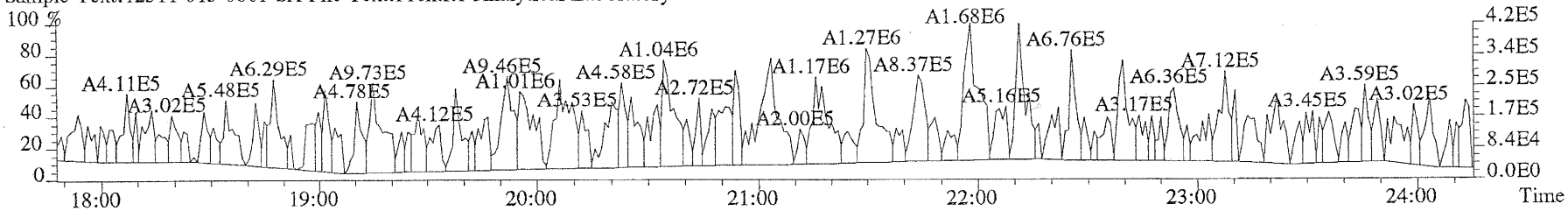
File:05AUG19Z #1-783 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



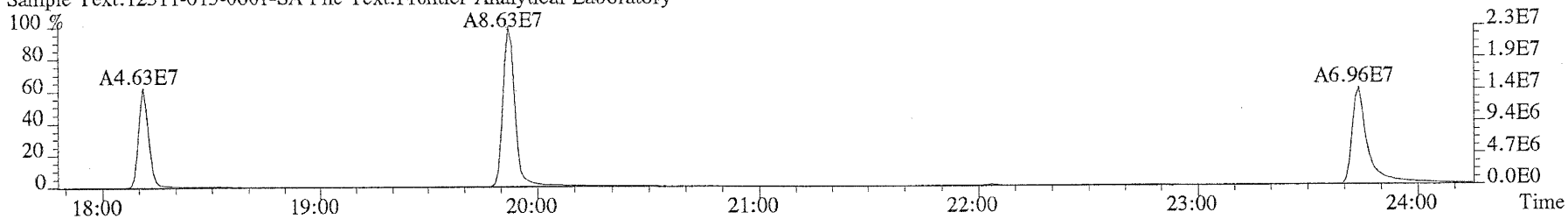
File:05AUG19Z #1-520 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



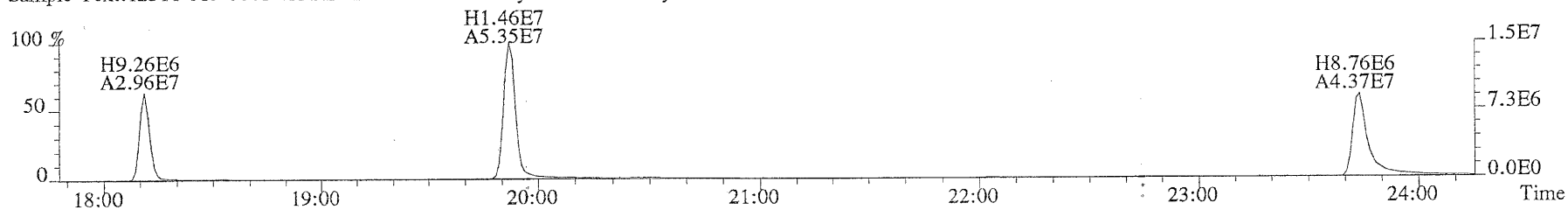
File:05AUG19Z #1-520 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



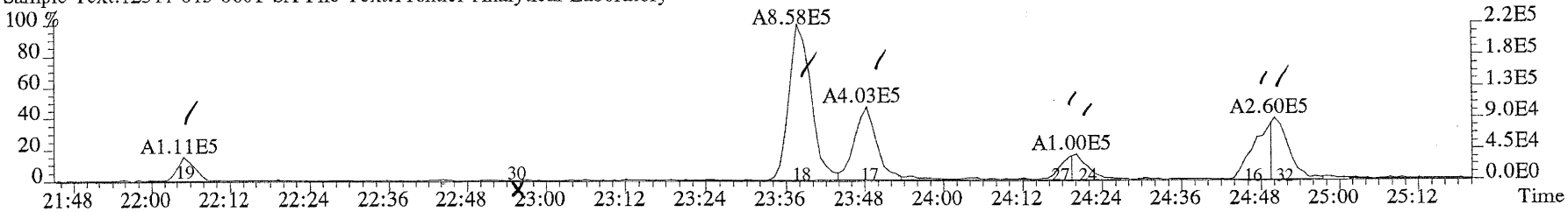
File:05AUG19Z #1-520 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



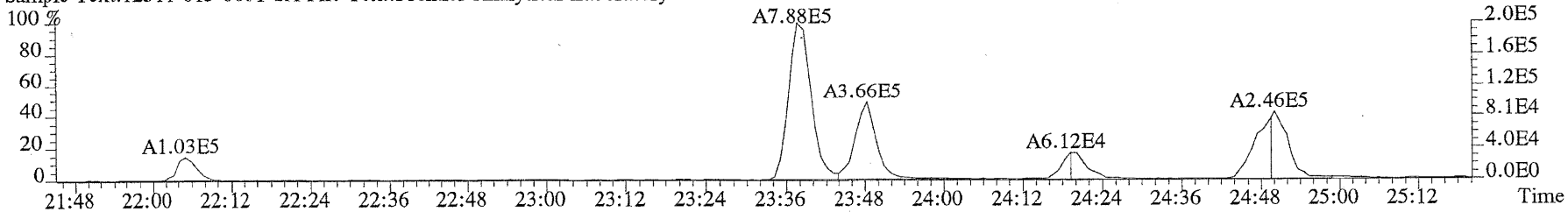
File:05AUG19Z #1-520 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



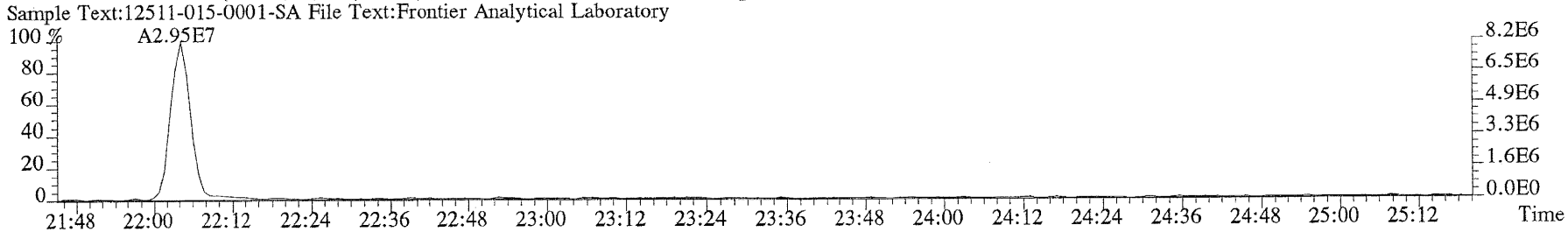
File:05AUG19Z #1-520 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



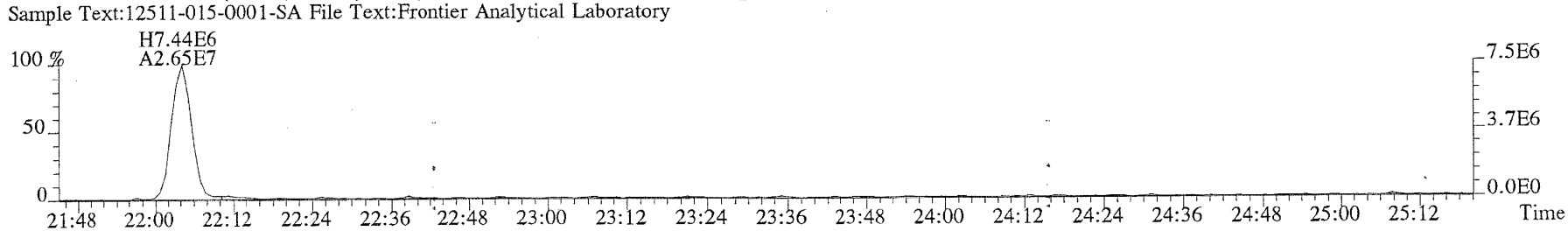
File:05AUG19Z #1-520 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



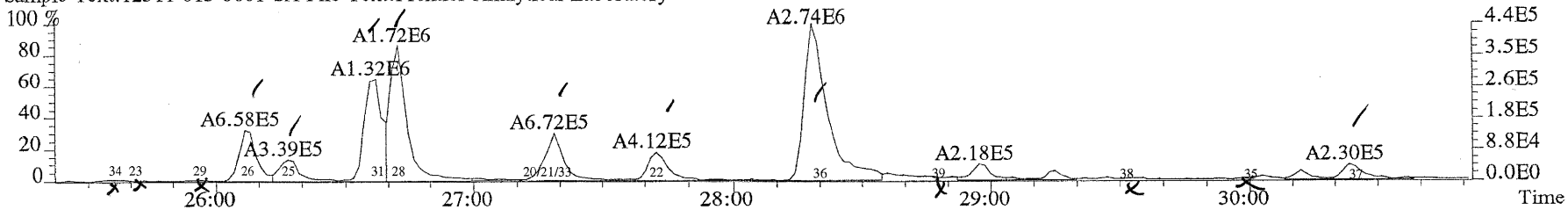
File:05AUG19Z #1-520 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



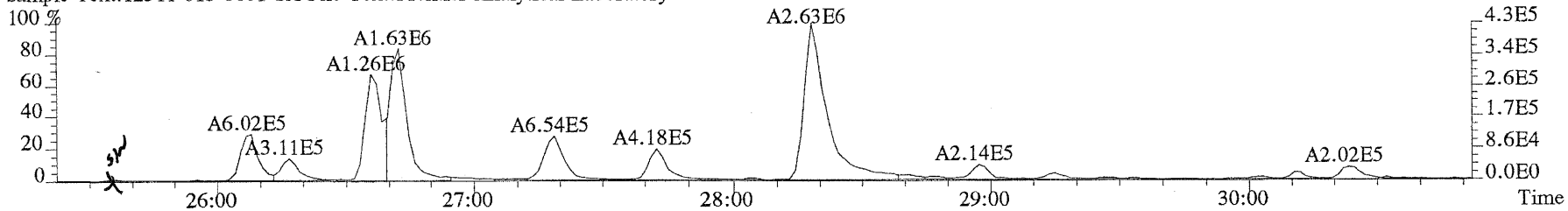
File:05AUG19Z #1-520 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



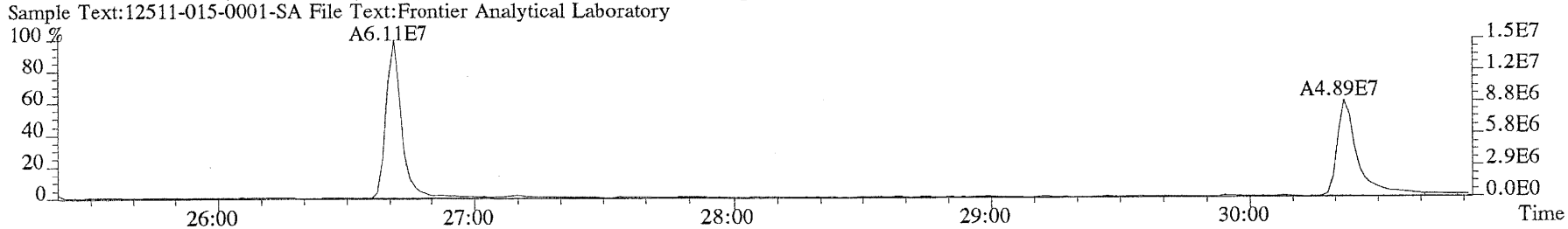
File:05AUG19Z #1-402 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



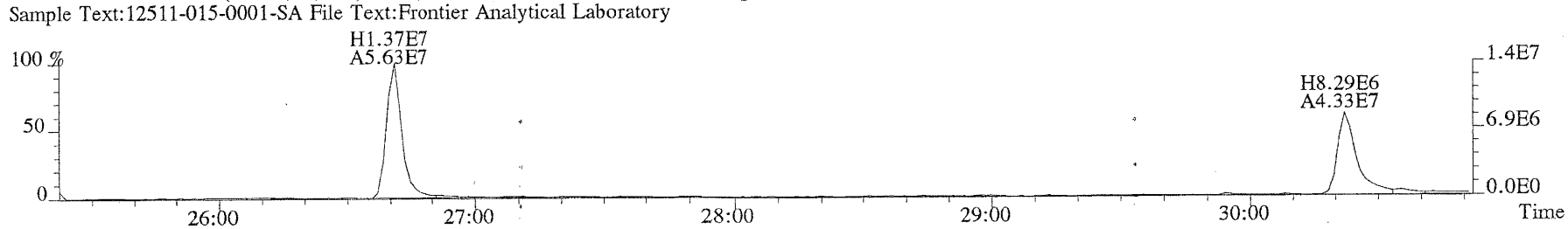
File:05AUG19Z #1-402 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



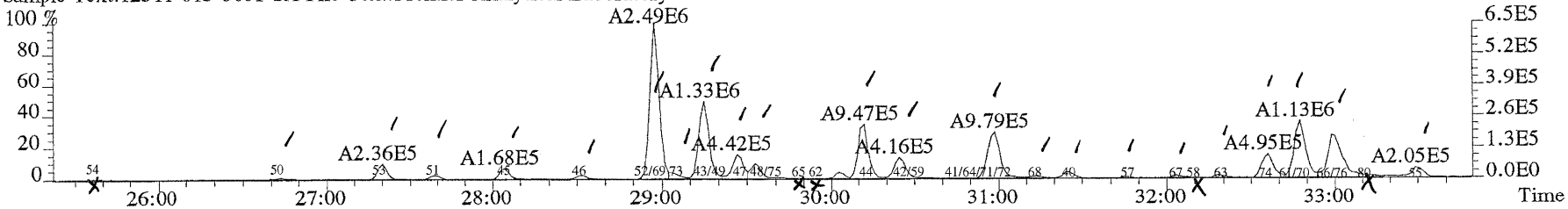
File:05AUG19Z #1-402 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-402 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 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:12511-015-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-402 Acq: 5-AUG-2019 17:22:59 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:12511-015-0001-SA File Text:Frontier Analytical Laboratory



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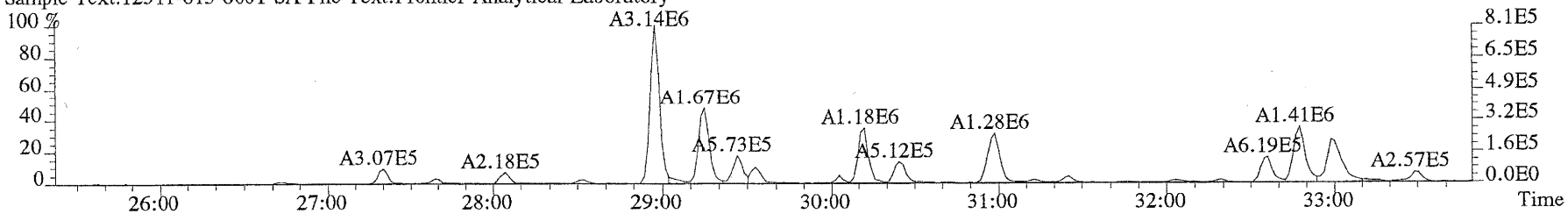
291.9194 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



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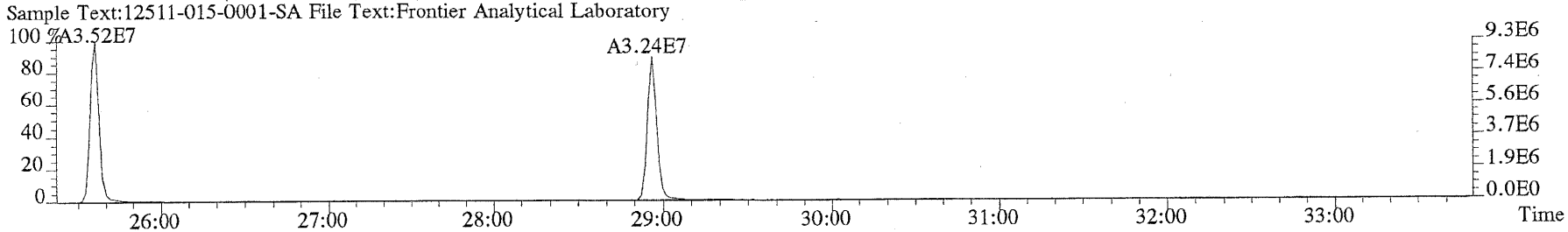
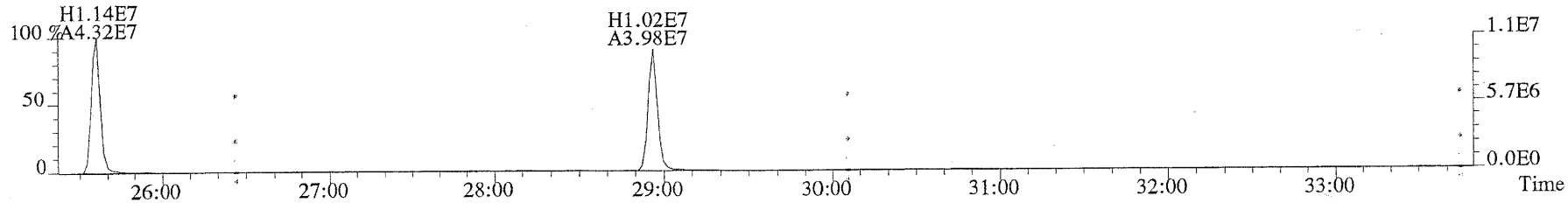
301.9626 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-402 Acq: 5-AUG-2019 17:22:59 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:12511-015-0001-SA File Text:Frontier Analytical Laboratory



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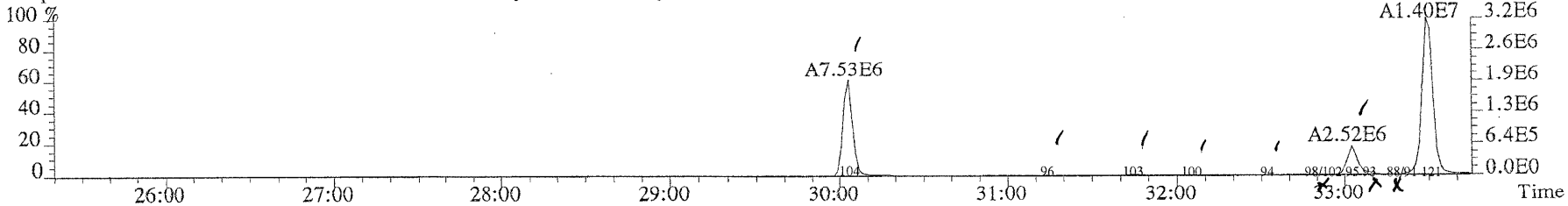
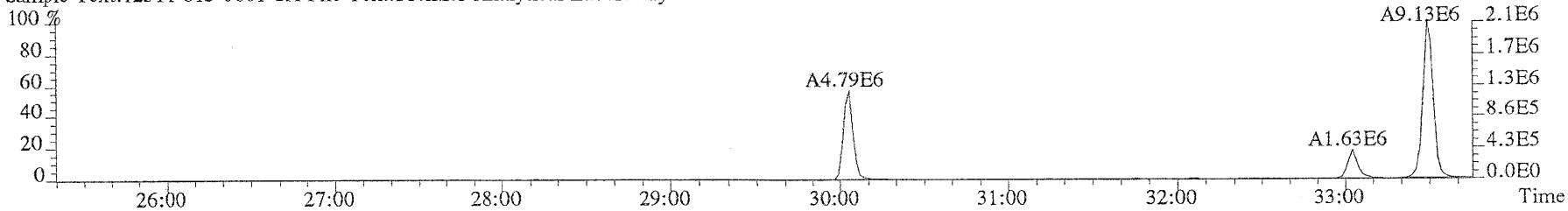
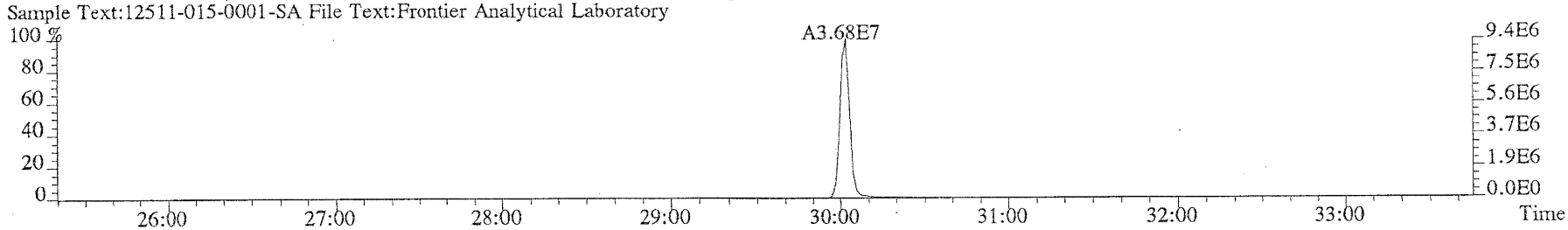
325.8804 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



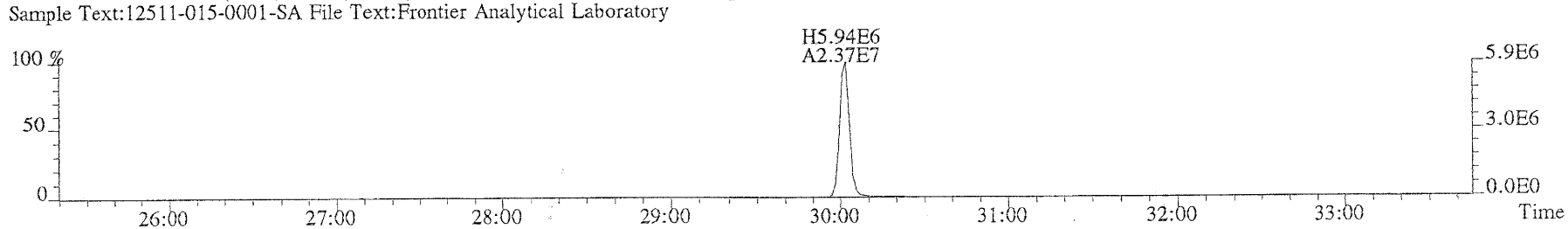
File:05AUG19Z #1-402 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



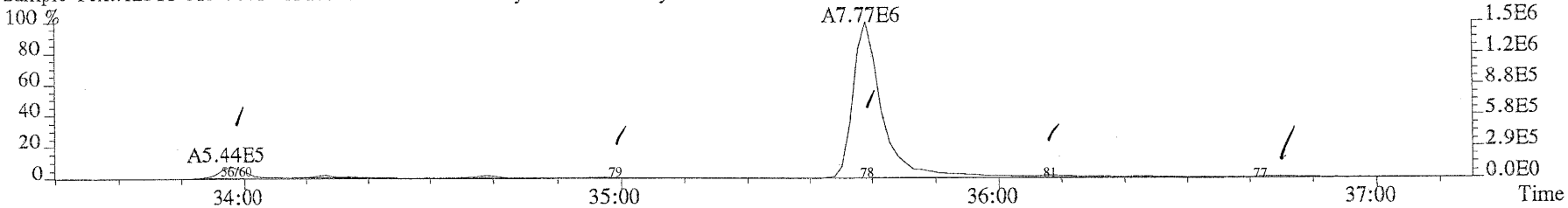
File:05AUG19Z #1-402 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



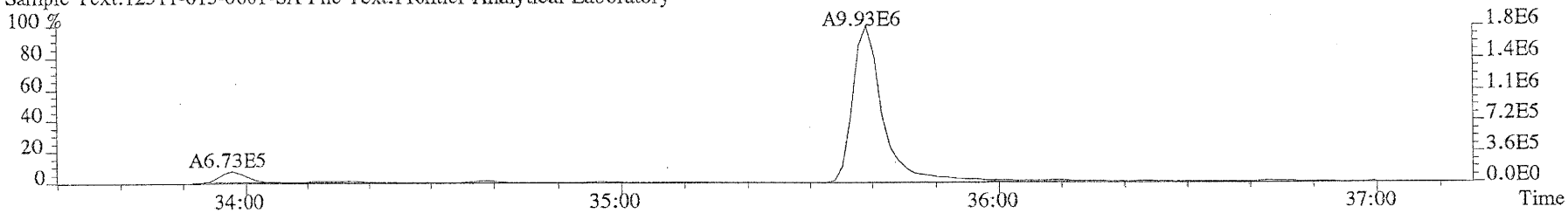
File:05AUG19Z #1-402 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



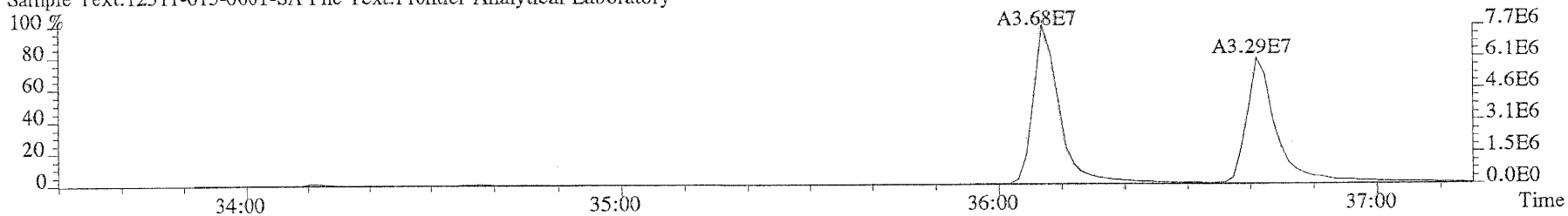
File:05AUG19Z #1-180 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



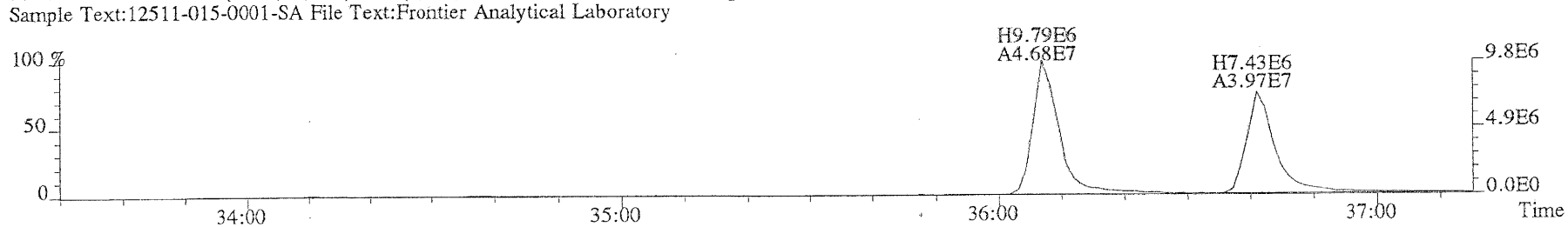
File:05AUG19Z #1-180 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



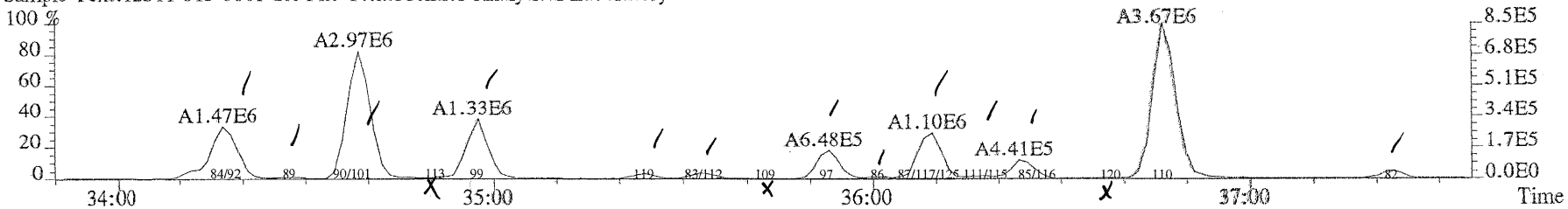
File:05AUG19Z #1-180 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



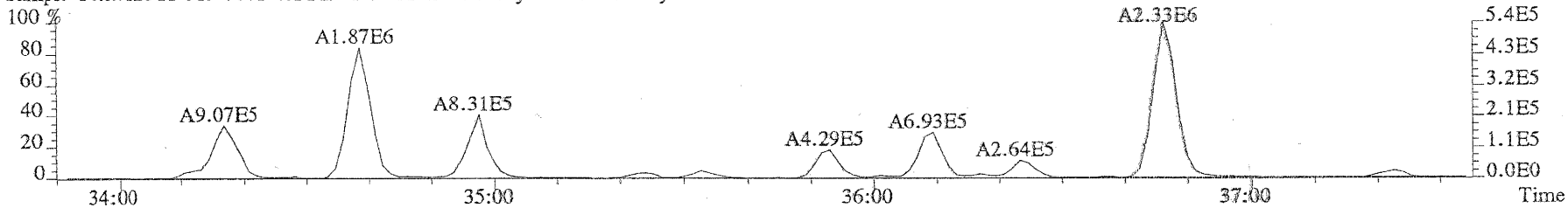
File:05AUG19Z #1-180 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



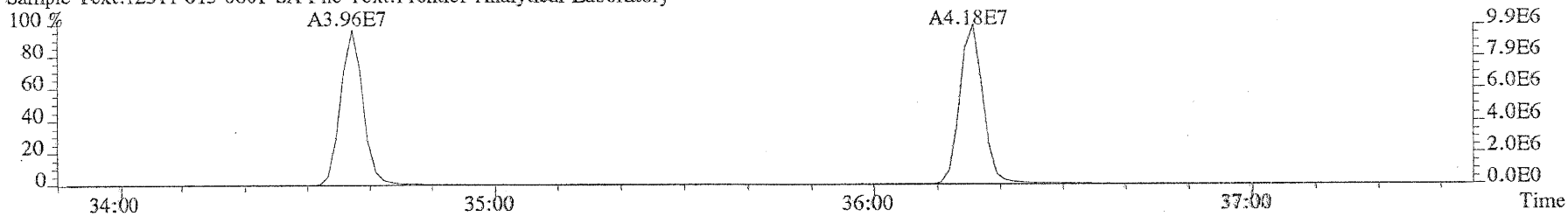
File:05AUG19Z #1-180 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



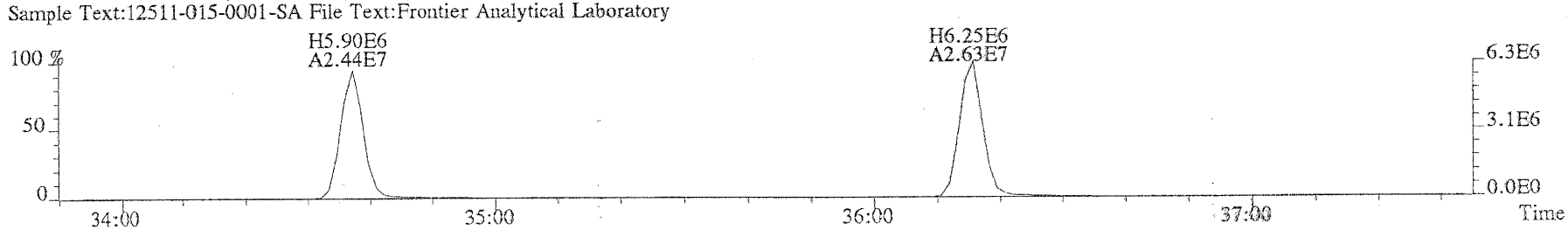
File:05AUG19Z #1-180 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0:00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



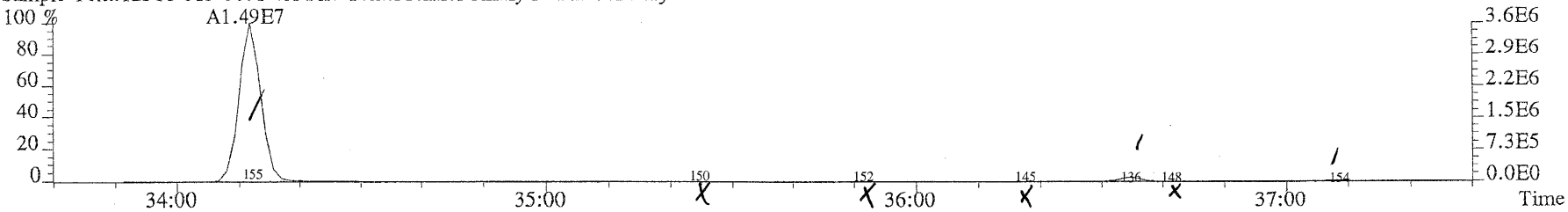
File:05AUG19Z #1-180 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



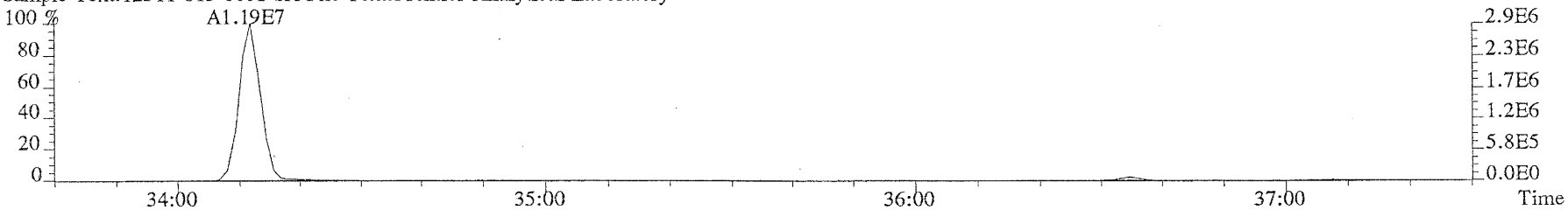
File:05AUG19Z #1-180 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



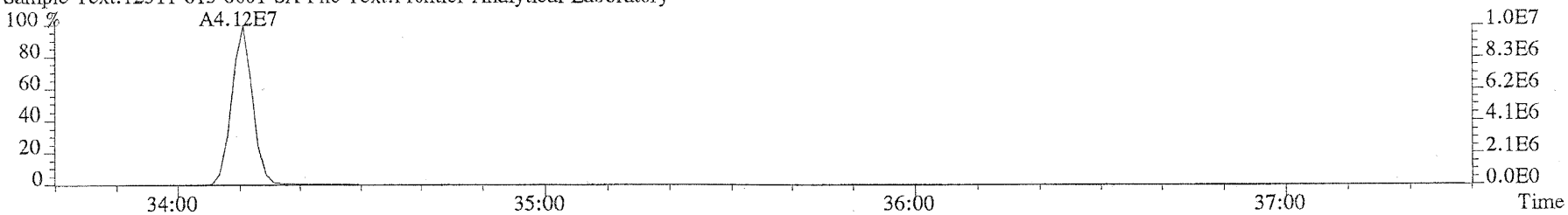
File:05AUG19Z #1-180 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



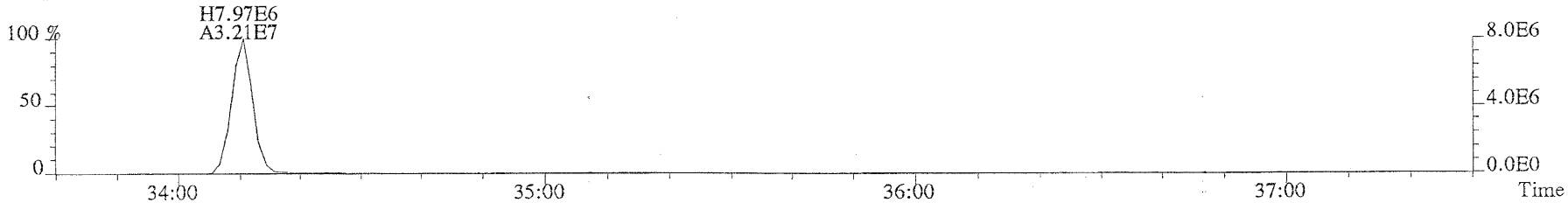
File:05AUG19Z #1-180 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



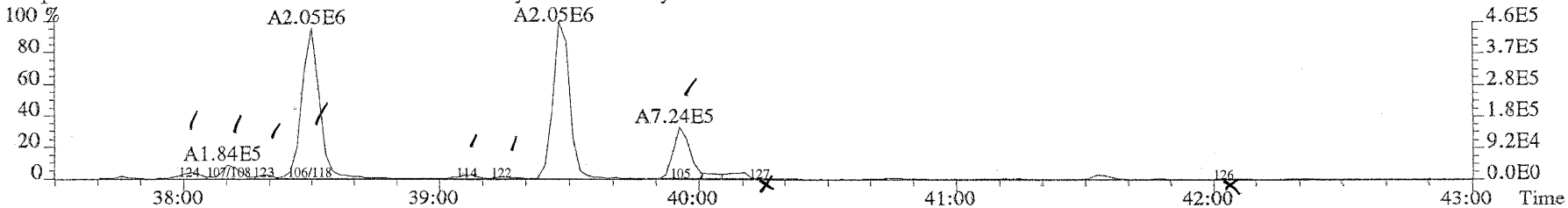
File:05AUG19Z #1-180 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



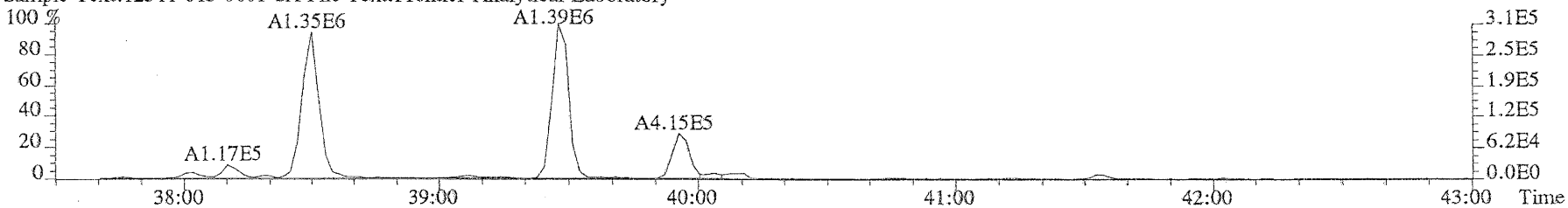
File:05AUG19Z #1-180 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



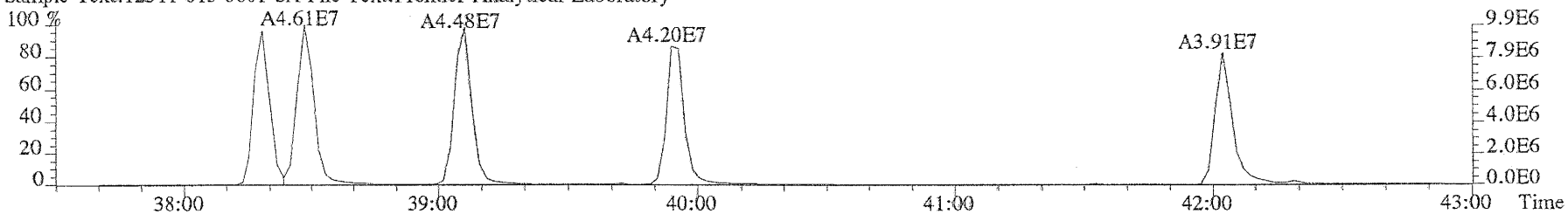
File:05AUG19Z #1-405 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



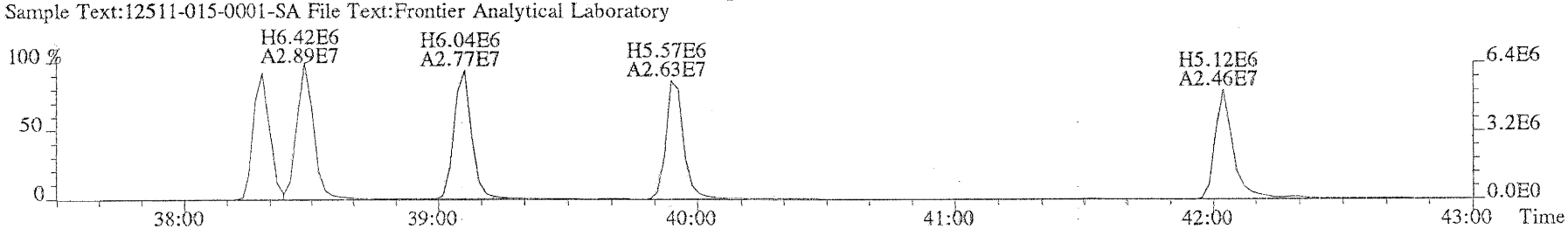
File:05AUG19Z #1-405 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



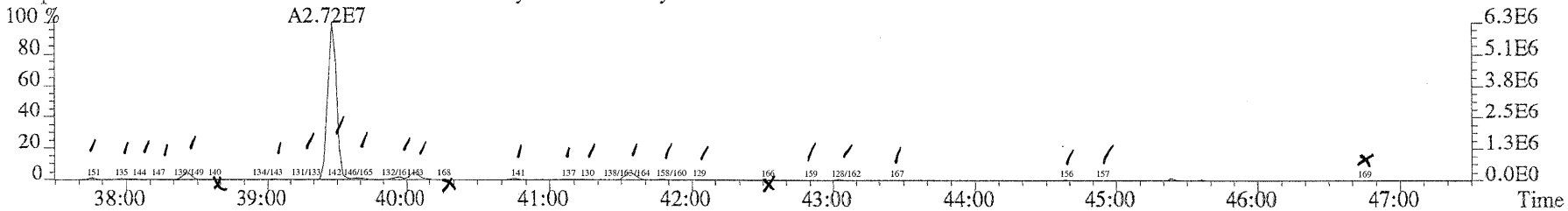
File:05AUG19Z #1-405 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



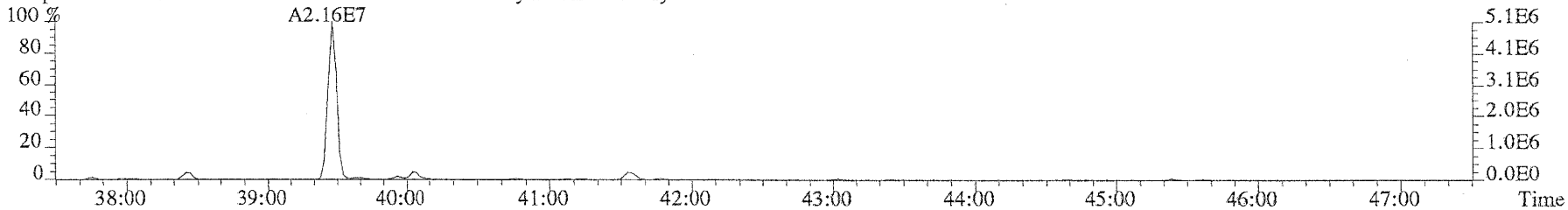
File:05AUG19Z #1-405 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



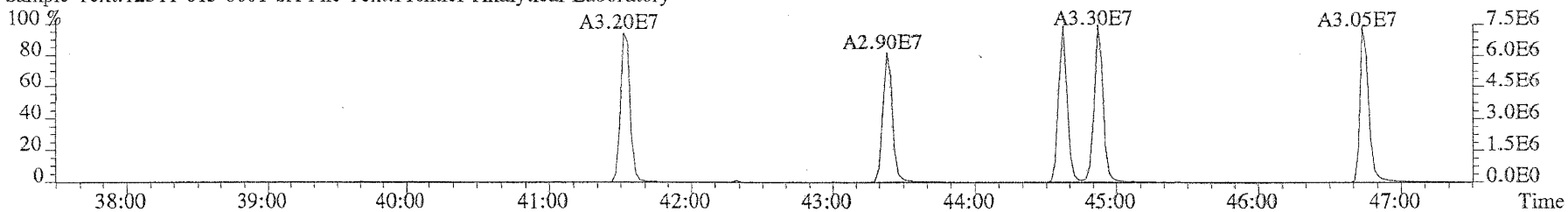
File:05AUG19Z #1-405 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



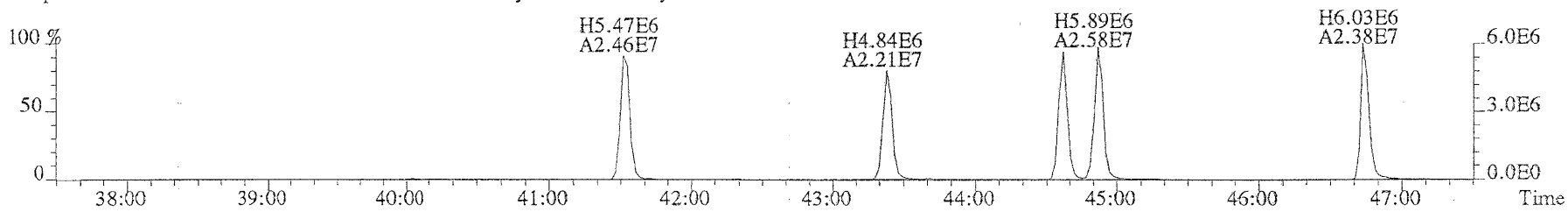
File:05AUG19Z #1-405 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



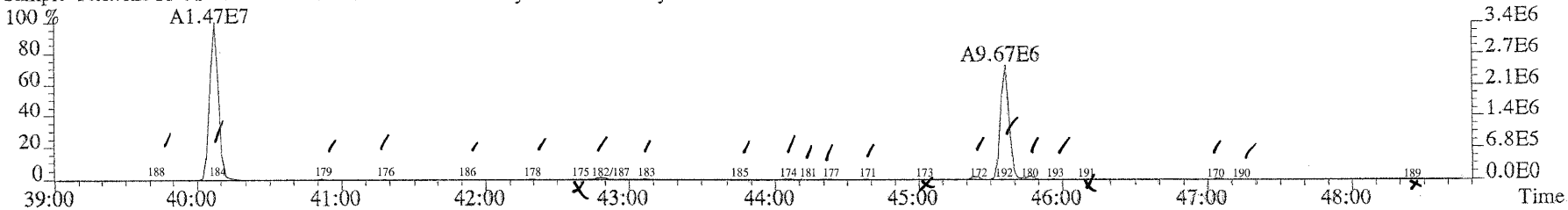
File:05AUG19Z #1-405 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



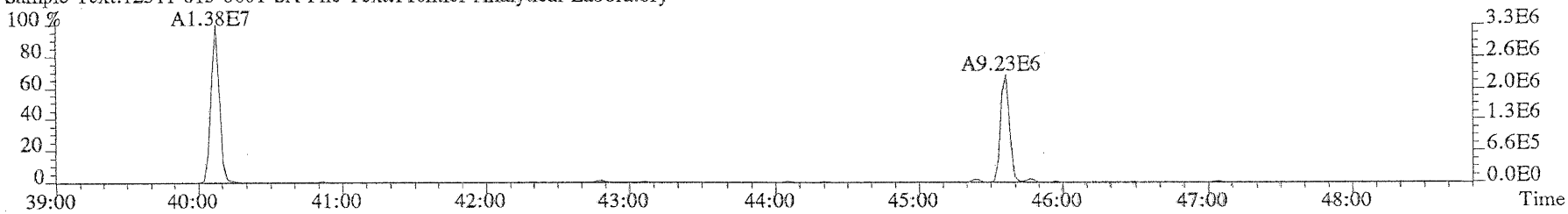
File:05AUG19Z #1-405 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



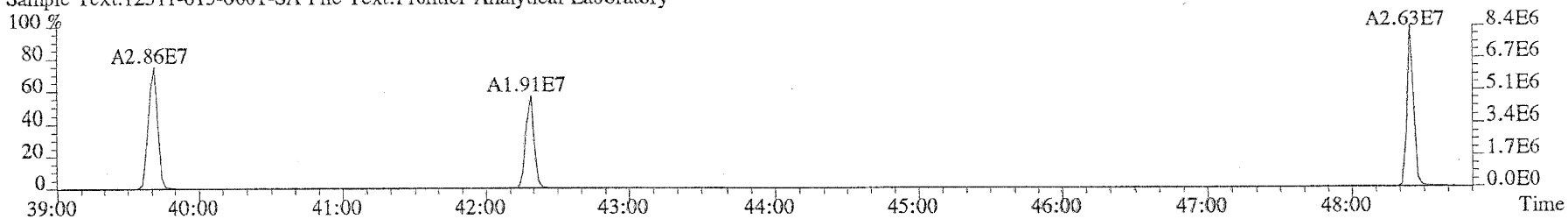
File:05AUG19Z #1-405 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



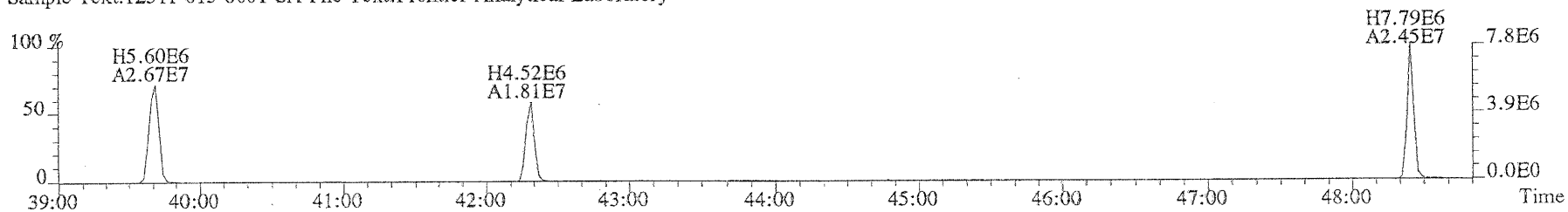
File:05AUG19Z #1-405 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0:00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



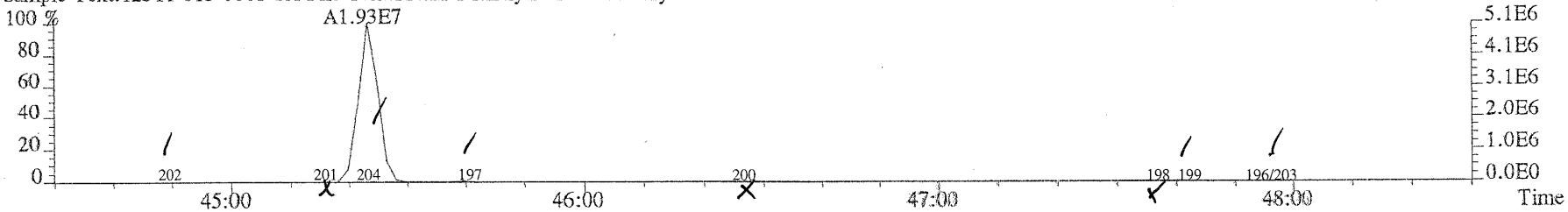
File:05AUG19Z #1-405 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



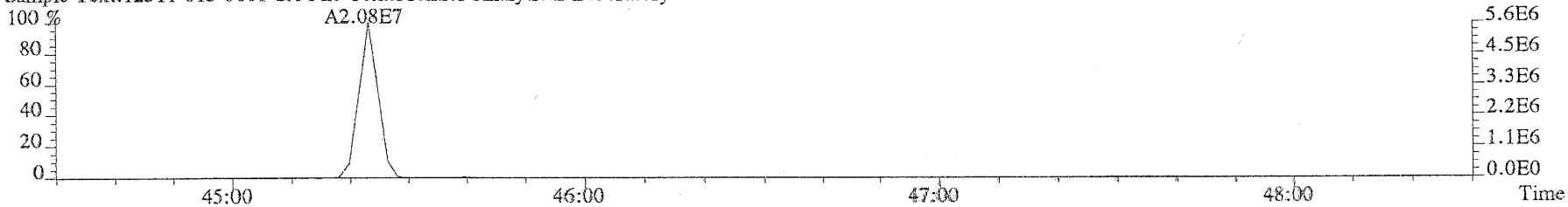
File:05AUG19Z #1-405 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



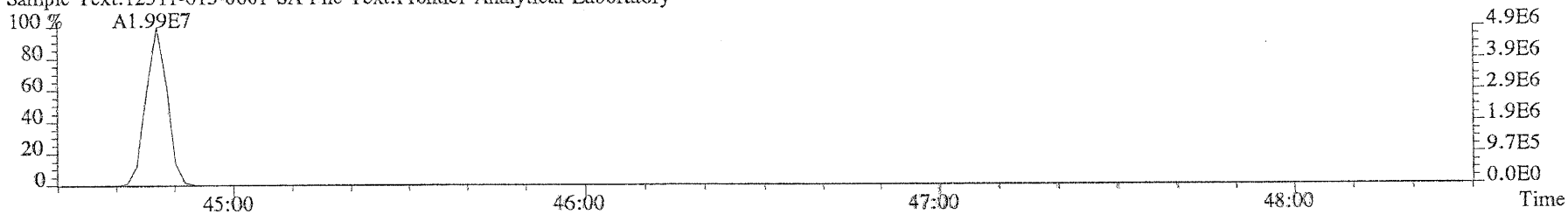
File:05AUG19Z #1-405 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



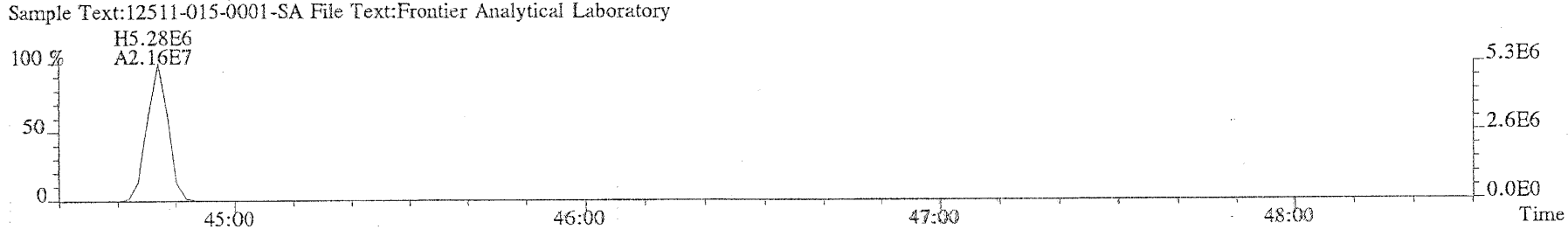
File:05AUG19Z #1-405 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



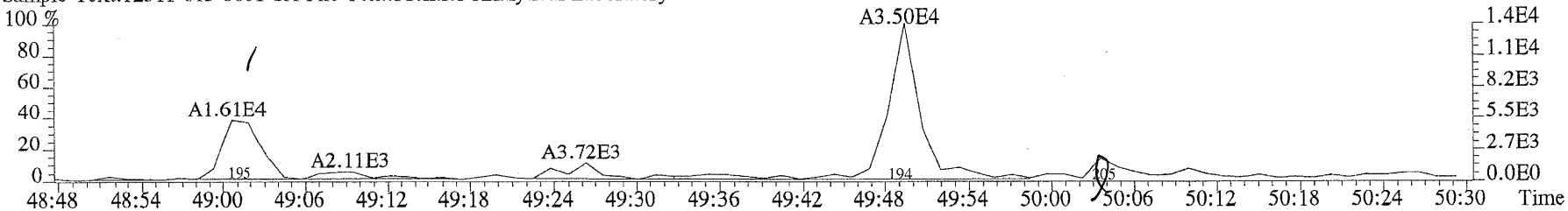
File:05AUG19Z #1-405 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



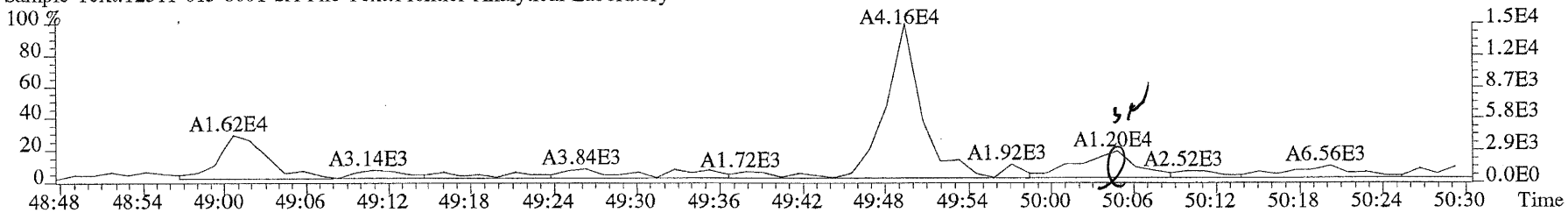
File:05AUG19Z #1-405 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



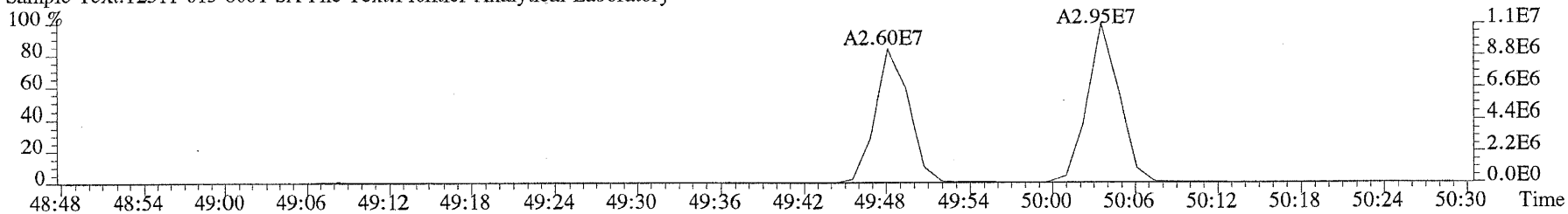
File:05AUG19Z #1-315 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



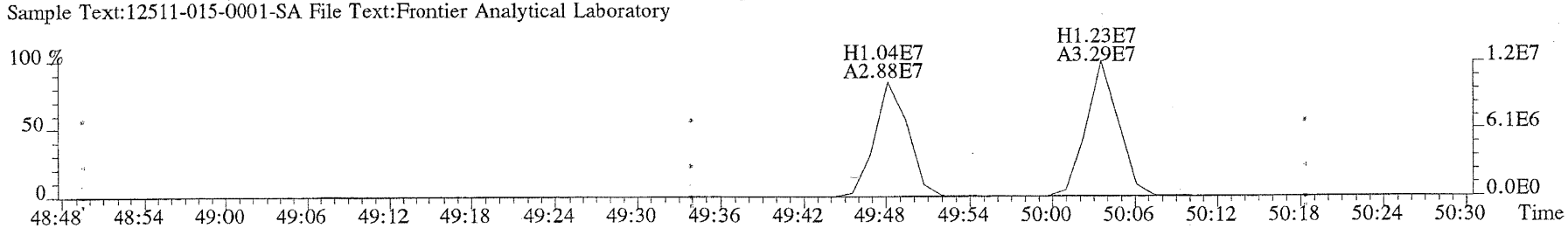
File:05AUG19Z #1-315 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



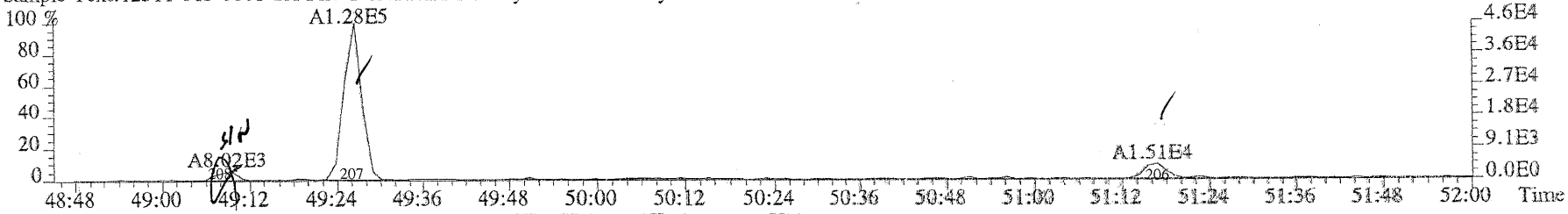
File:05AUG19Z #1-315 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



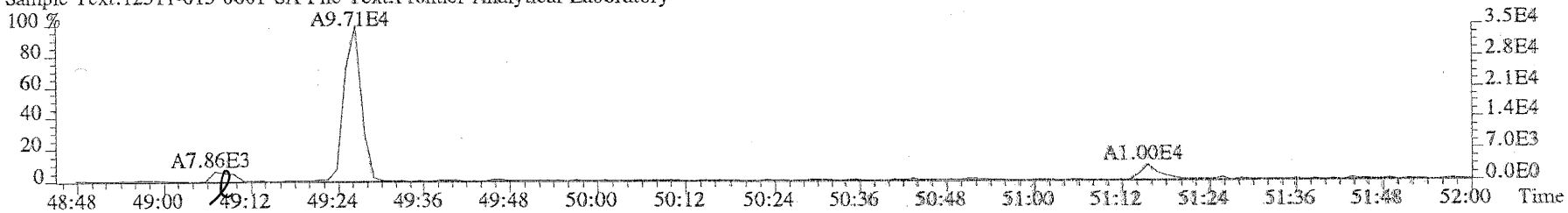
File:05AUG19Z #1-315 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 17:22:59 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:12511-015-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 17:22:59 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:12511-015-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
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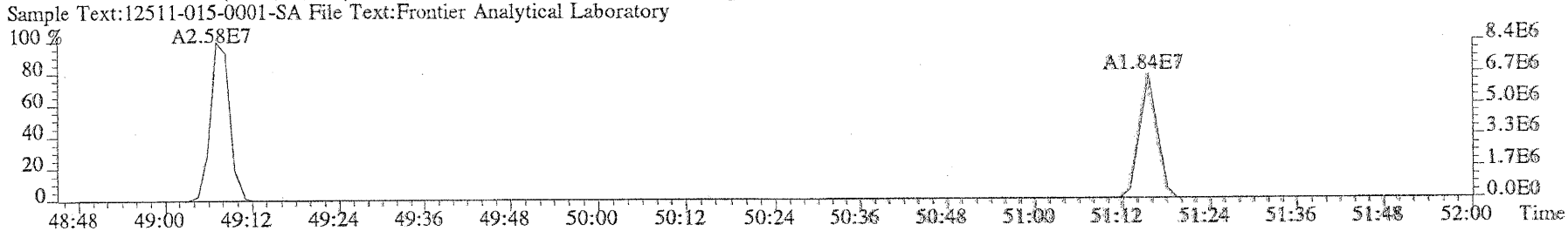
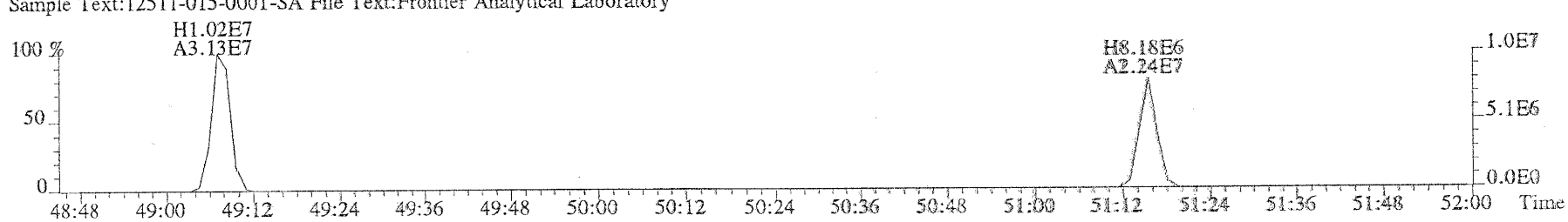
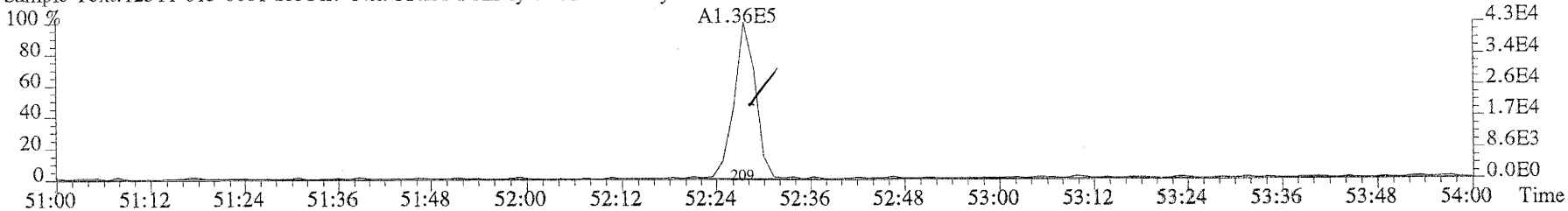
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



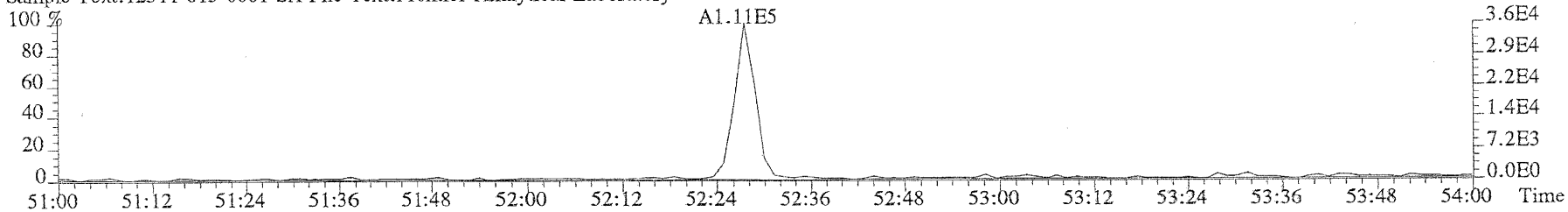
File:05AUG19Z #1-315 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



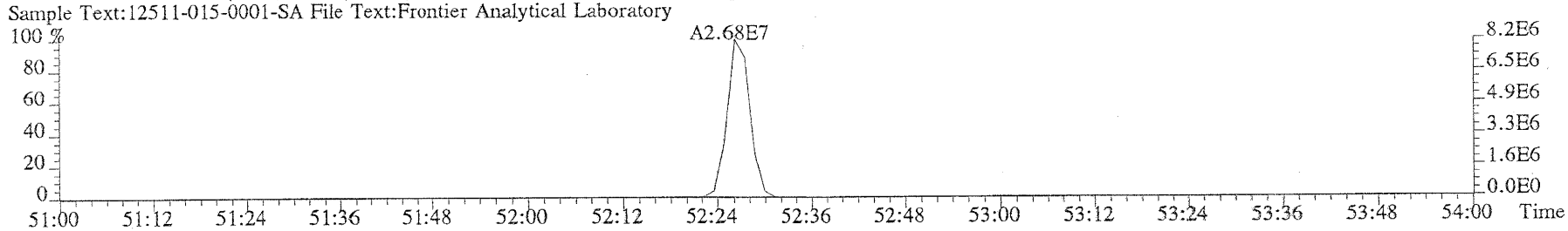
File:05AUG19Z #1-315 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



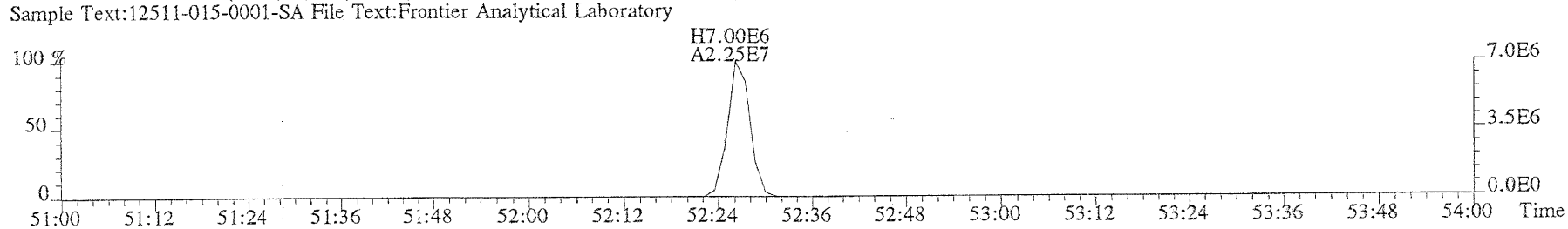
File:05AUG19Z #1-315 Acq: 5-AUG-2019 17:22:59 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12511-015-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 17:22:59 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:12511-015-0001-SA File Text:Frontier Analytical Laboratory



File:05AUG19Z #1-315 Acq: 5-AUG-2019 17:22:59 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:12511-015-0001-SA File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

Data Filename: 03APR19Z

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

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

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

Analyst: _____ Date: 4/3/19

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

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

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

Analyst: _____ Date: 4/3/19

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

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

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

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

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

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

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

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

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

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

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

Analyst: _____ Date: 4/3/19

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

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

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

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

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

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

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

Analyst: _____ Date: 4/3/19

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

FAL ID:1668 CS077 R170821A

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

FAL ID:1668 CS077 R170821A

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

Analyst: _____ Date: 4/3/19

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

FAL ID:1668 CS177 R170213A

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

FAL ID:1668 CS177 R170213A

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

Analyst: Date: 4/3/19

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

FAL ID:1668 CS277 R170213B

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

FAL ID:1668 CS277 R170213B

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

Analyst: Date: 4/3/19

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

FAL ID:1668 CS377 R181204D

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

FAL ID:1668 CS377 R181204D

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

Analyst: B Date: 4/3/19

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

FAL ID:1668 CS477 R181022B

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

FAL ID:1668 CS477 R181022B

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

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

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

FAL ID:1668 CS577 R130426C

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

FAL ID:1668 CS577 R130426C

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

Analyst: Date: 4/3/19

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

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

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

Analyst: _____ Date: 4/3/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

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

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

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

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

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

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

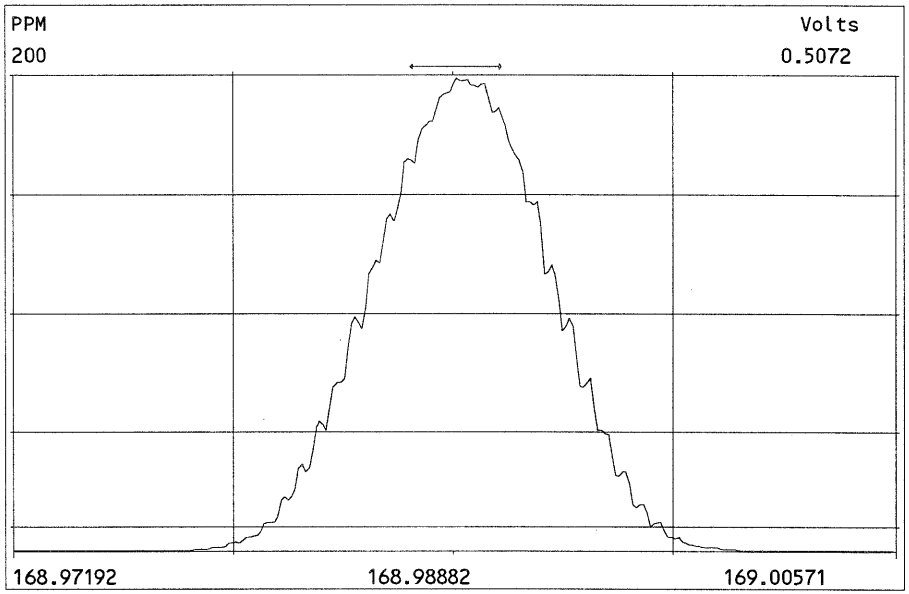
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
03APR19Z	1	ST040319Z0	1668 CS077 R170821A	3-APR-19 07:41:54	NA	NA	BS
03APR19Z	2	ST040319Z1	1668 CS177 R170213A	3-APR-19 08:40:14	NA	NA	BS
03APR19Z	3	ST040319Z2	1668 CS277 R170213B	3-APR-19 09:38:36	NA	NA	BS
03APR19Z	4	ST040319Z3	1668 CS377 R181204D	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

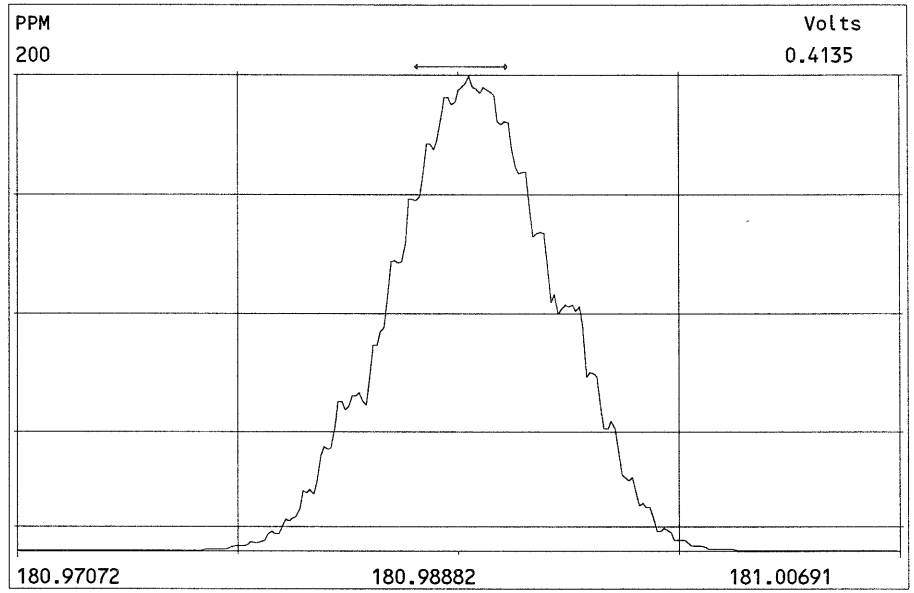
4/4/19

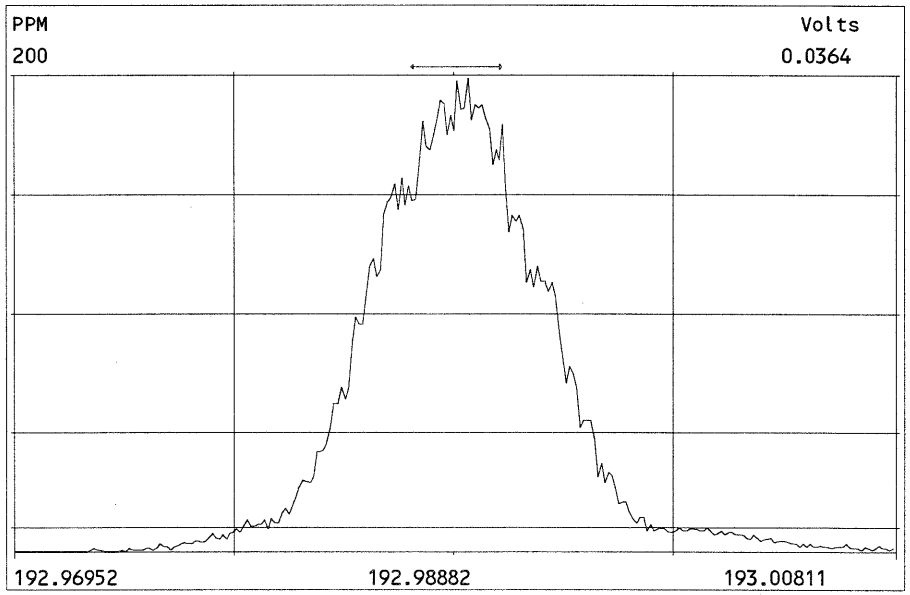
Data Backed Up:_____

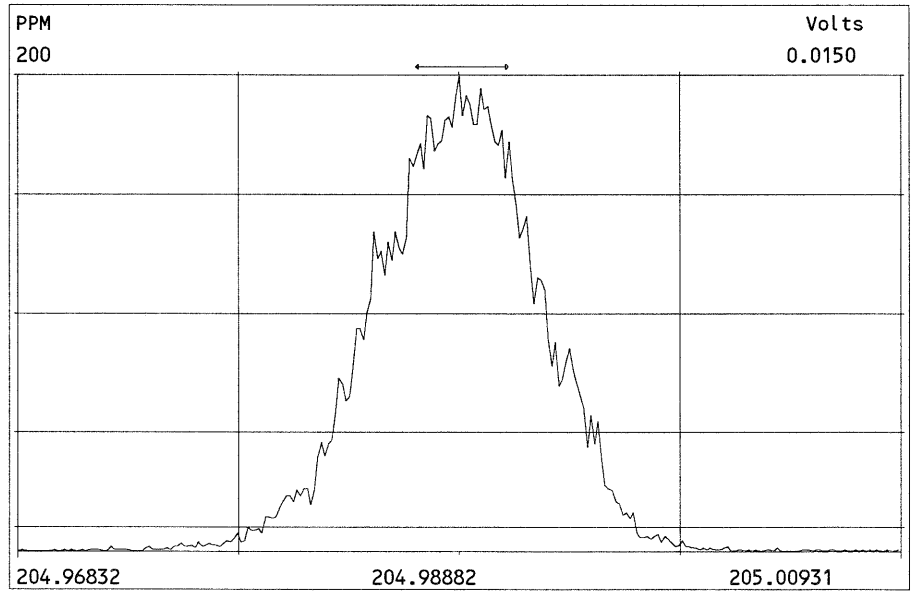
Date:_____

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

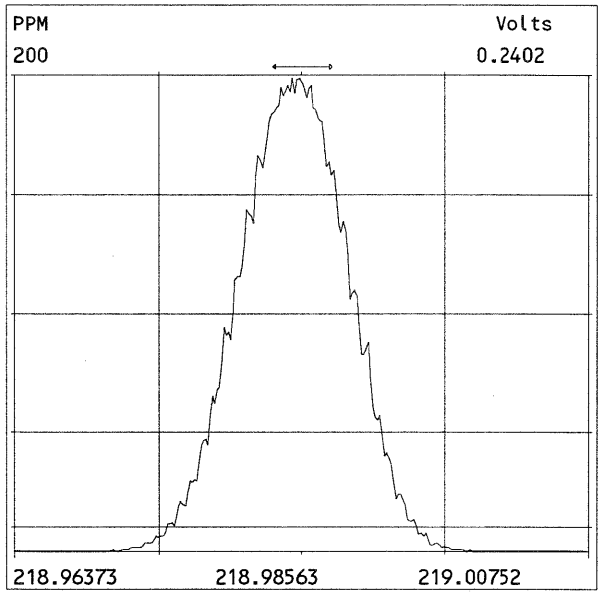


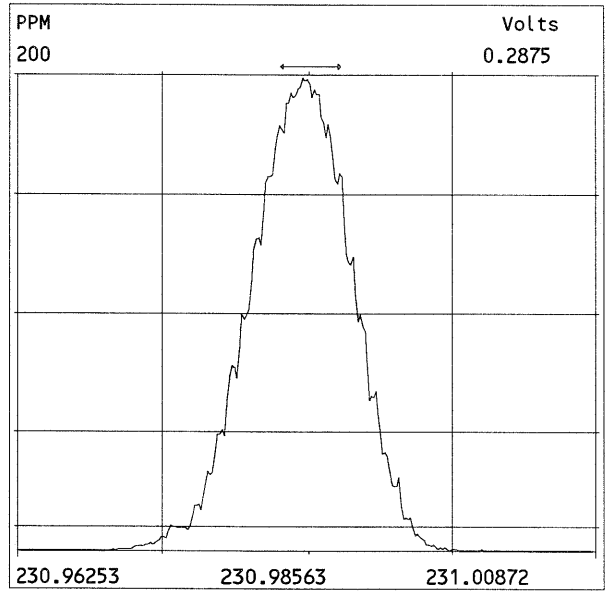


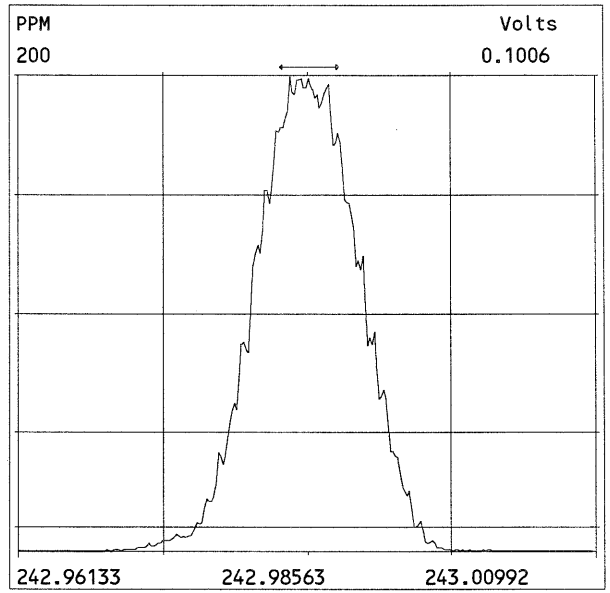


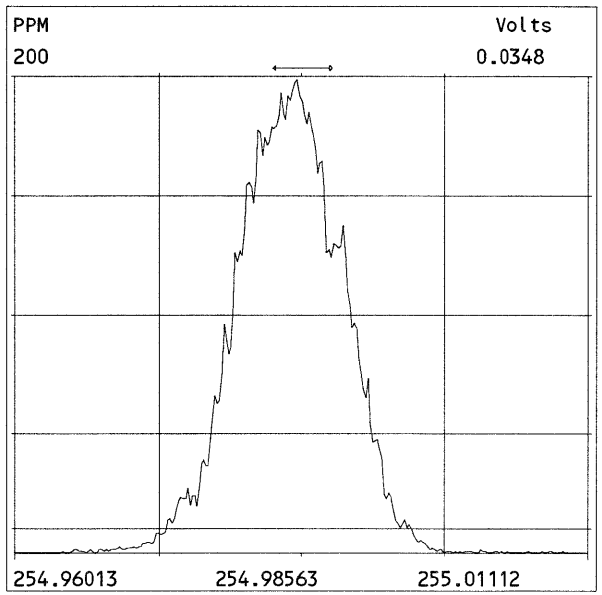


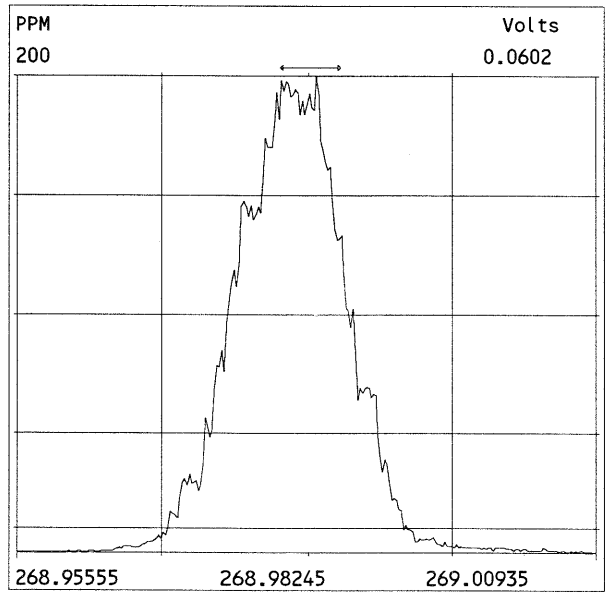
Peak Locate Examination: 3-APR-2019:07:39 File:03APR19Z
Experiment:1668PCB Function:2 Reference:PFK77

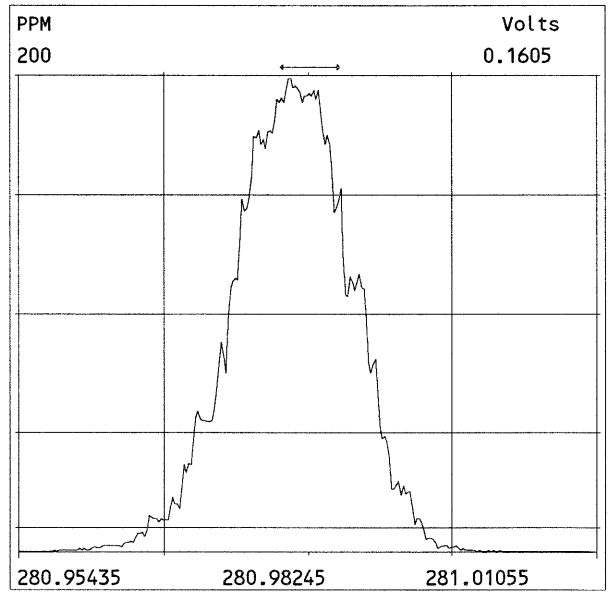




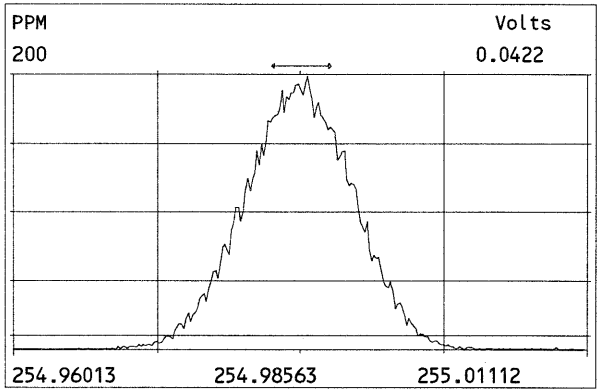


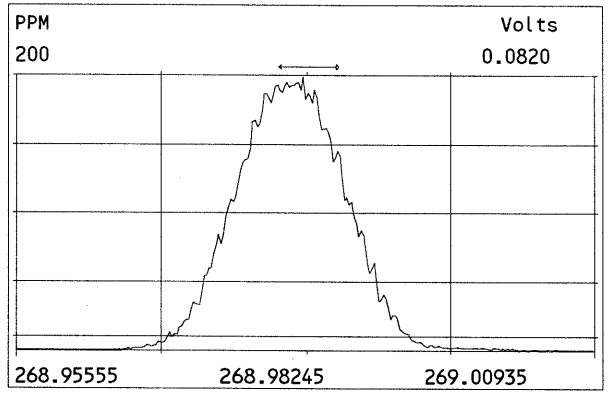


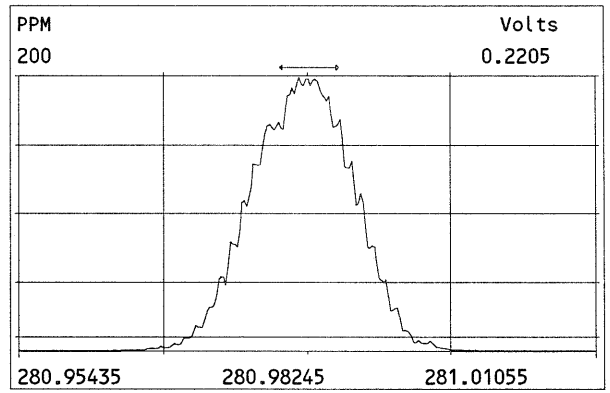


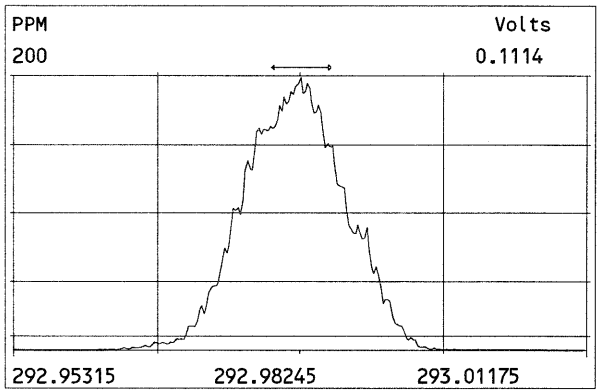


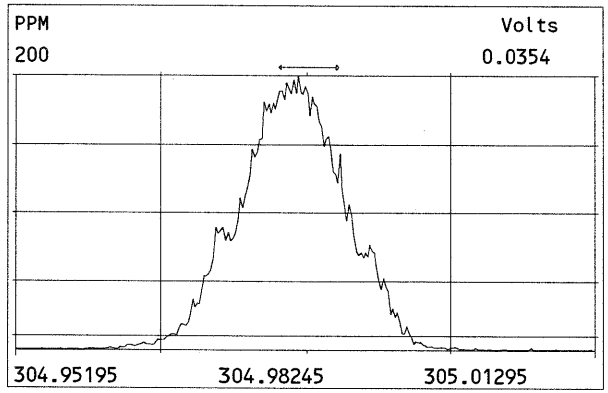
Peak Locate Examination: 3-APR-2019:07:39 File:03APR19Z
Experiment:1668PCB Function:3 Reference:PFK77

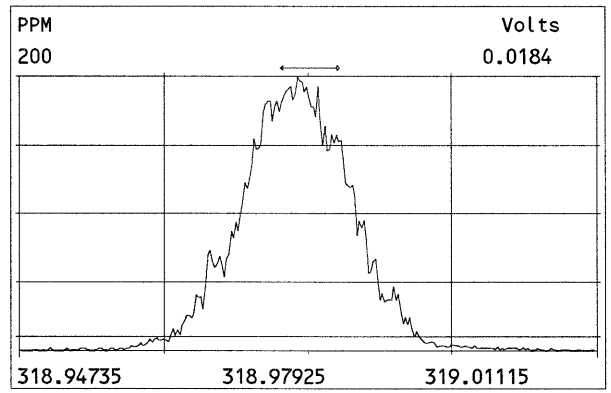


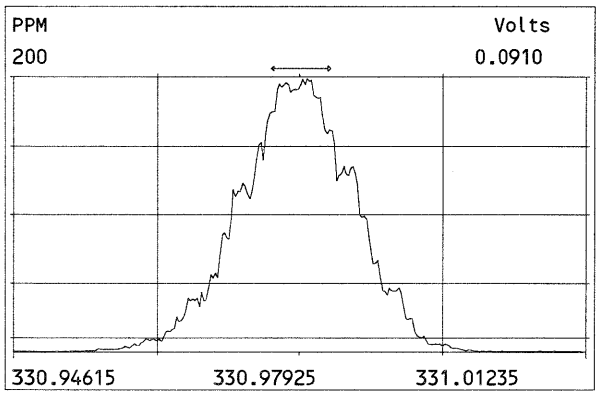


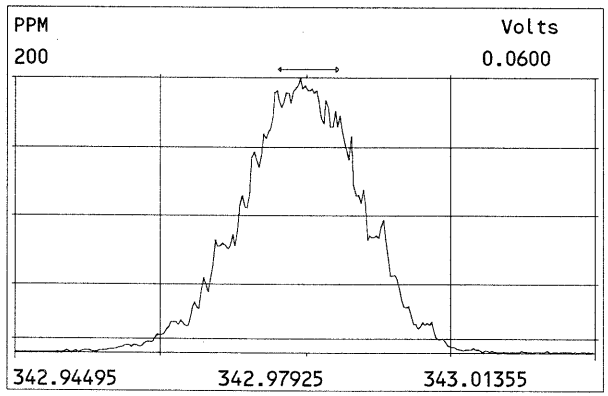




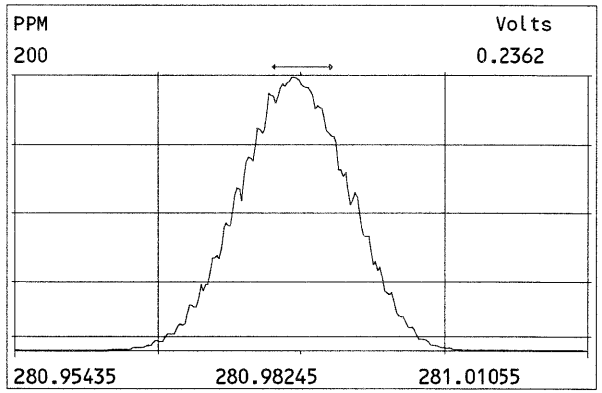


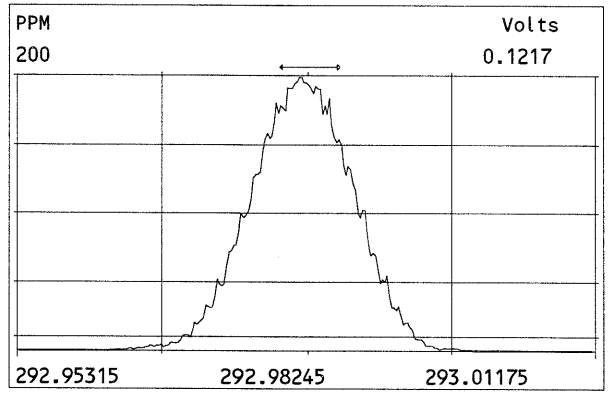


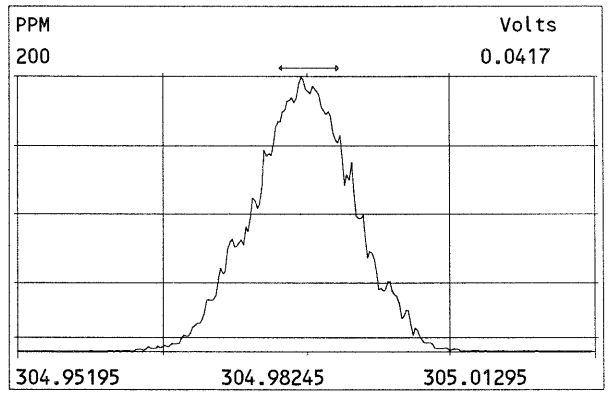


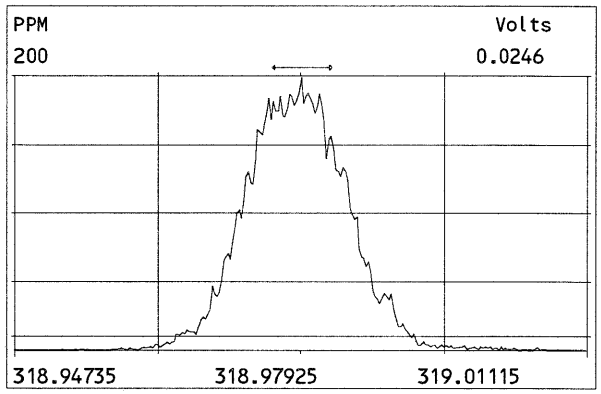


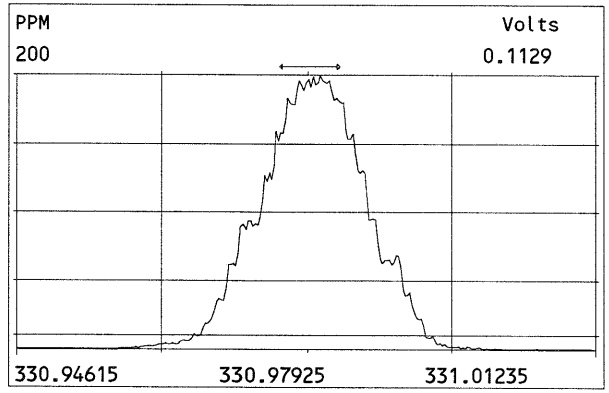
Peak Locate Examination: 3-APR-2019:07:40 File:03APR19Z
Experiment:1668PCB Function:4 Reference:PFK77

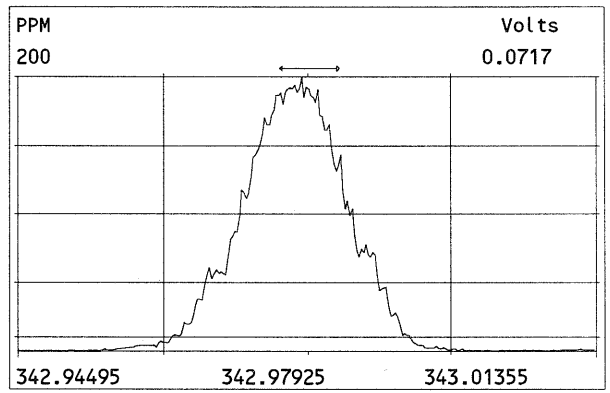


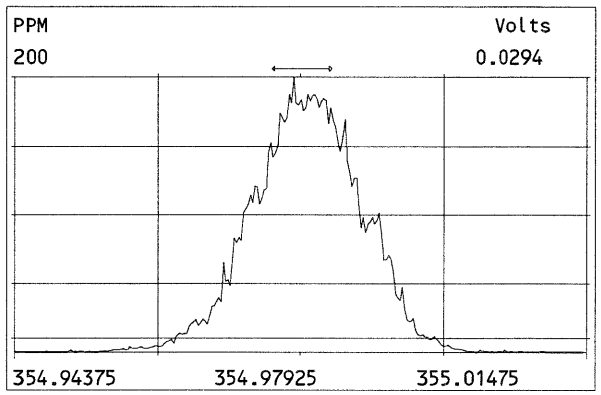


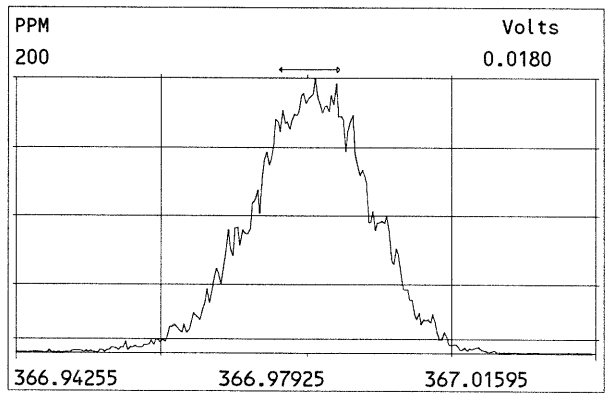


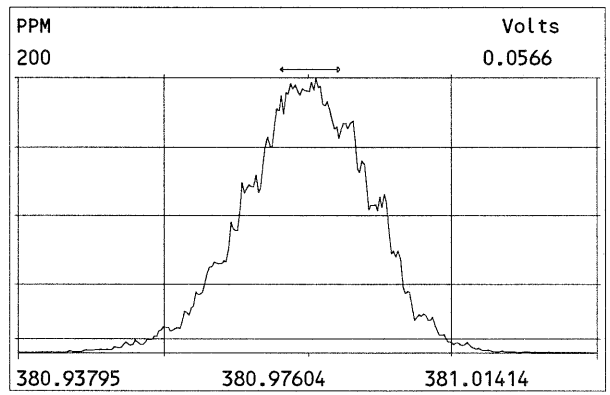




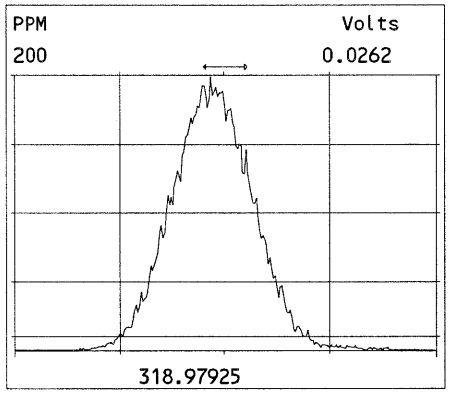


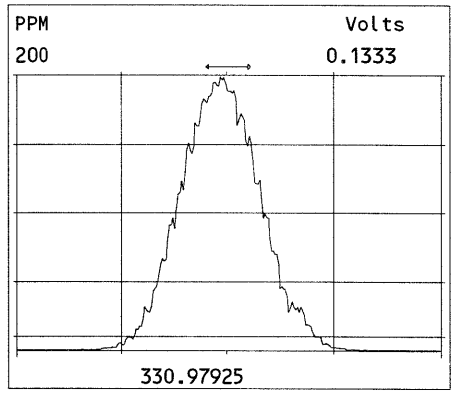


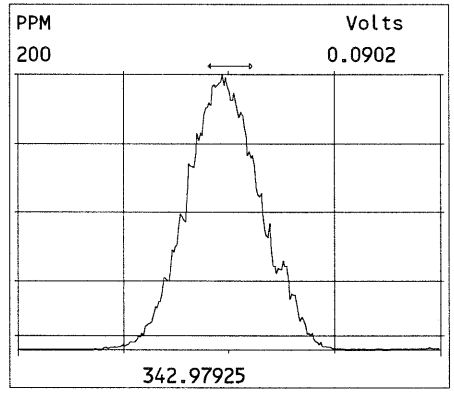


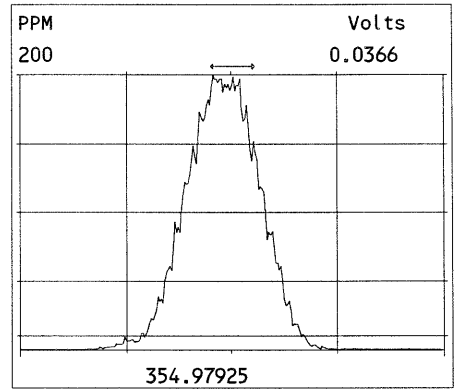


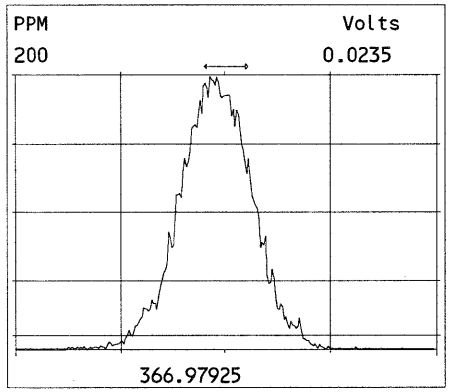
Peak Locate Examination: 3-APR-2019:07:40 File:03APR19Z
Experiment:1668PCB Function:5 Reference:PFK77

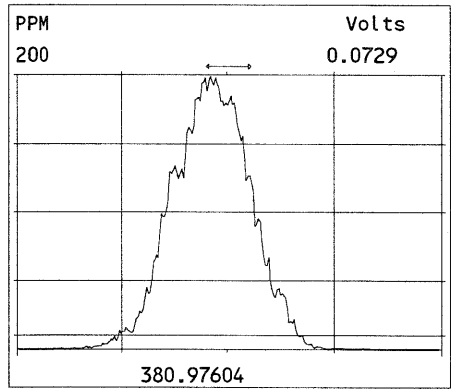


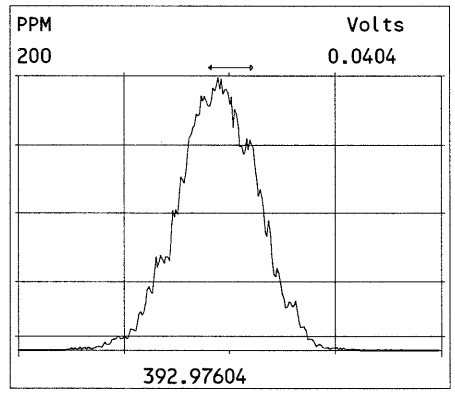


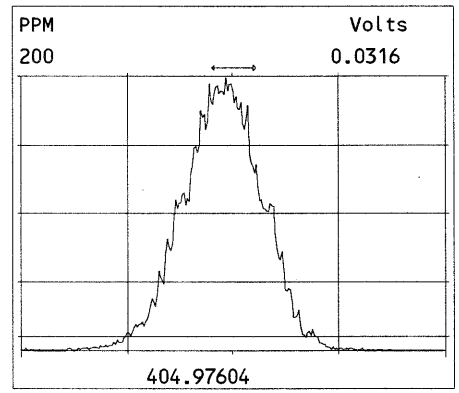


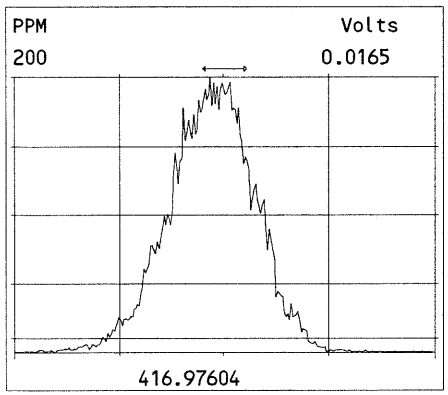


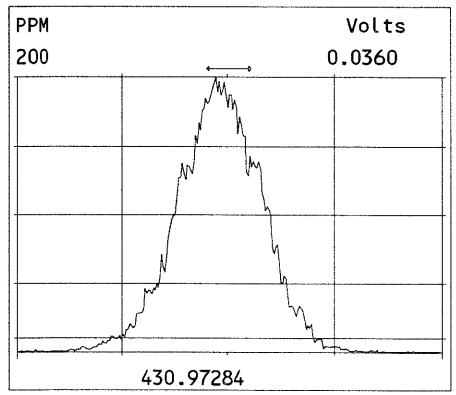


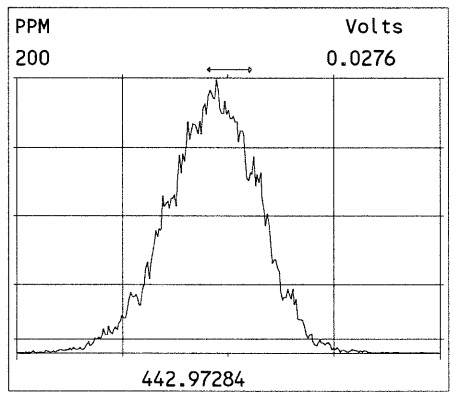




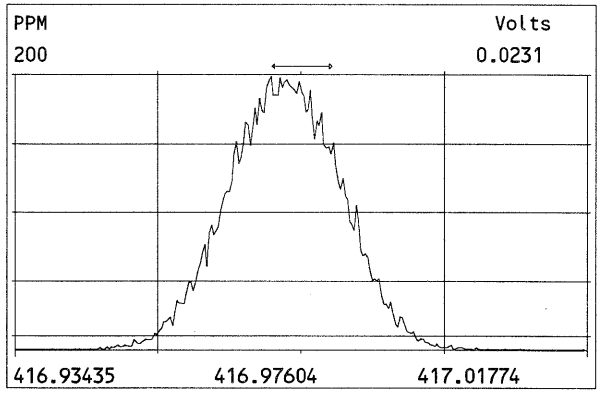


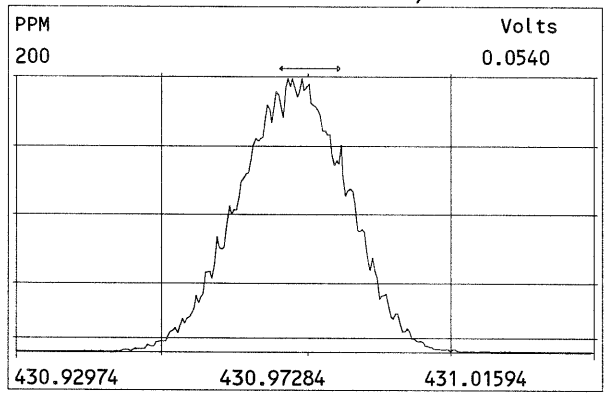


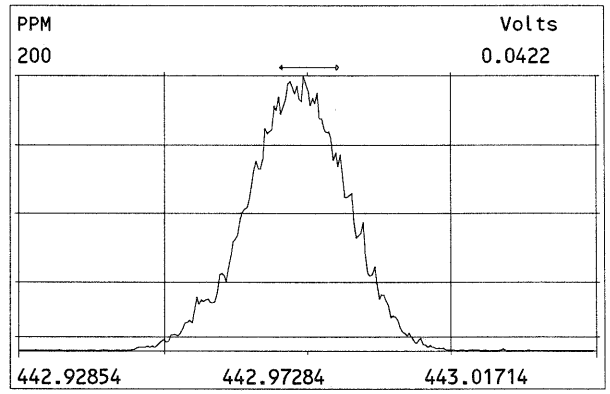


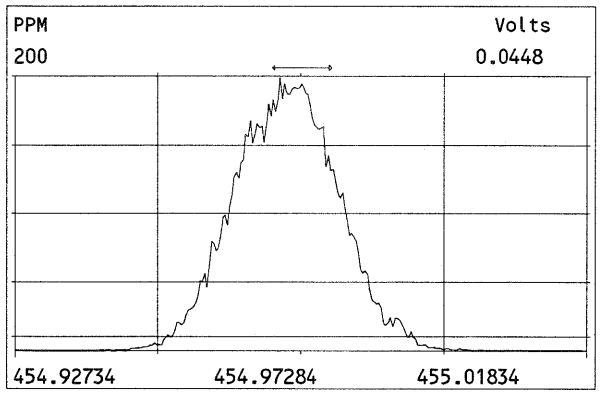


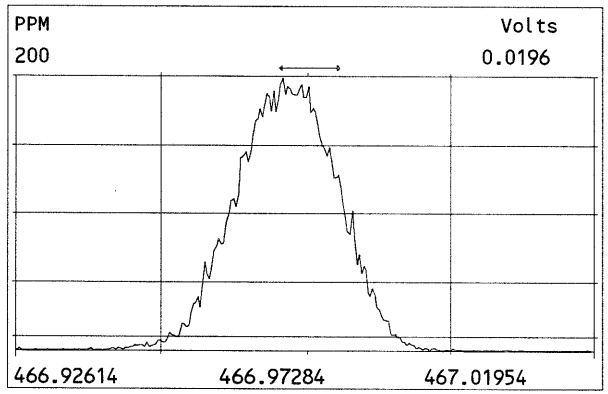
Peak Locate Examination: 3-APR-2019:07:41 File:03APR19Z
Experiment:1668PCB Function:6 Reference:PFK 77

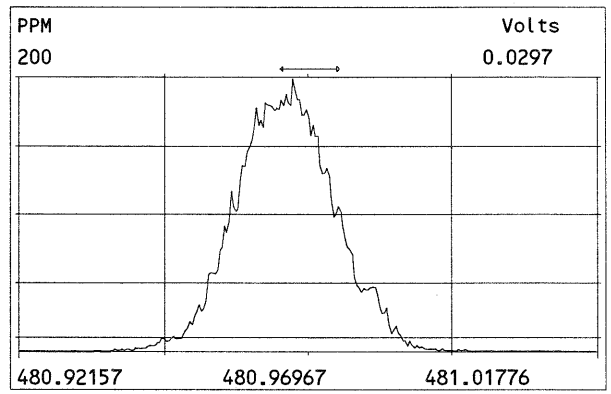


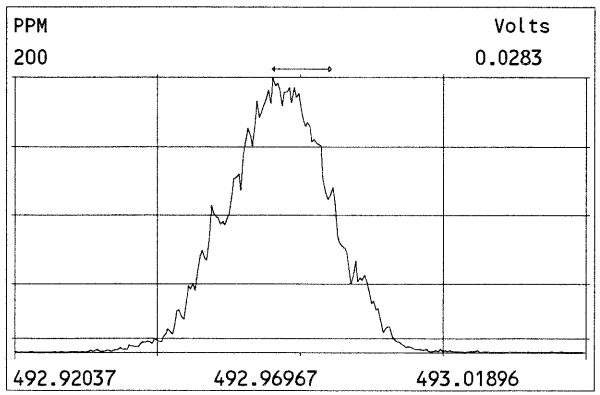


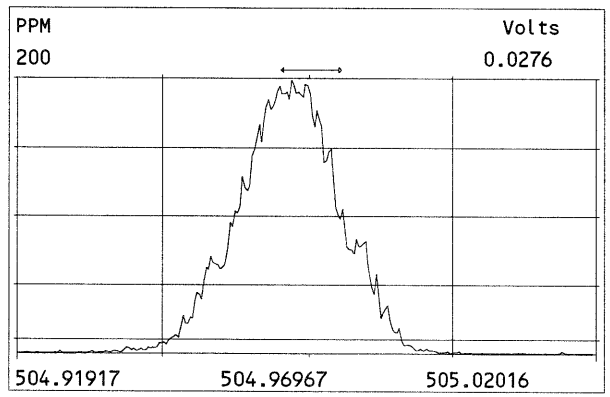


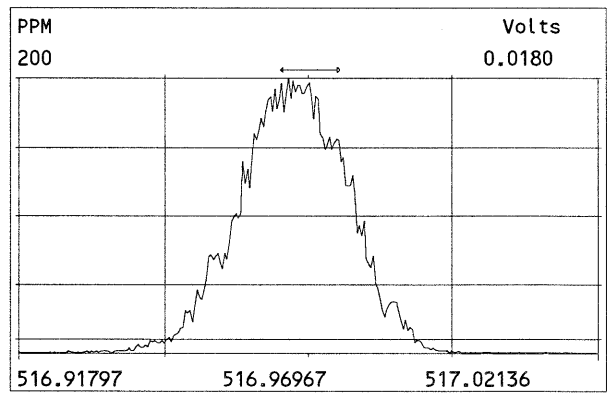




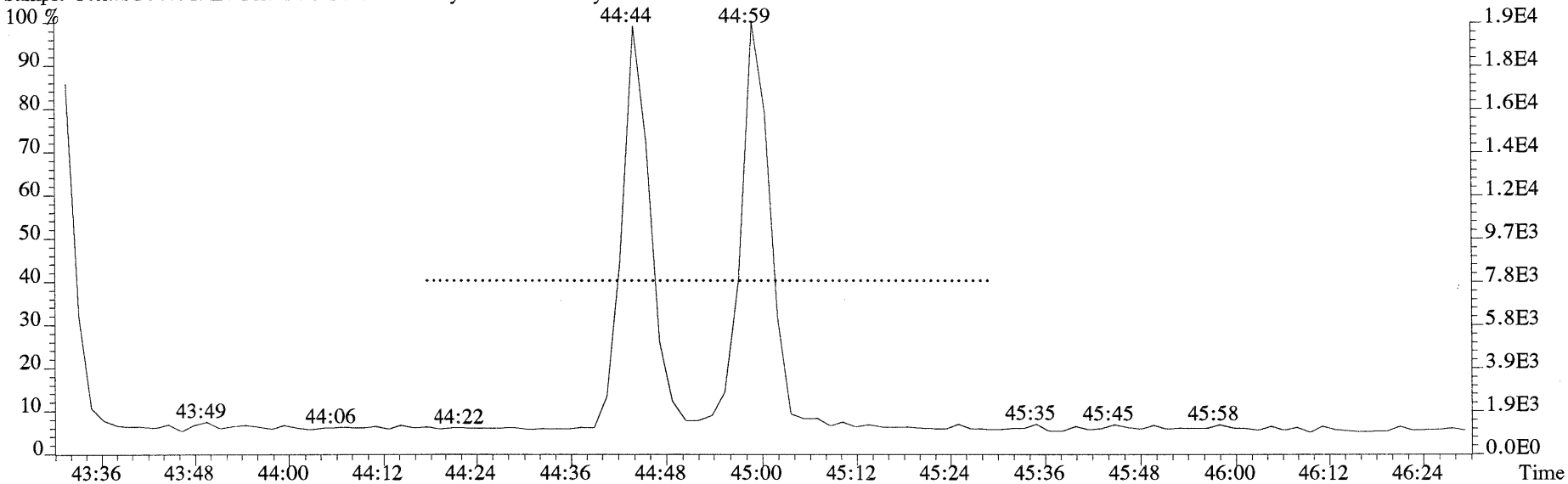








File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



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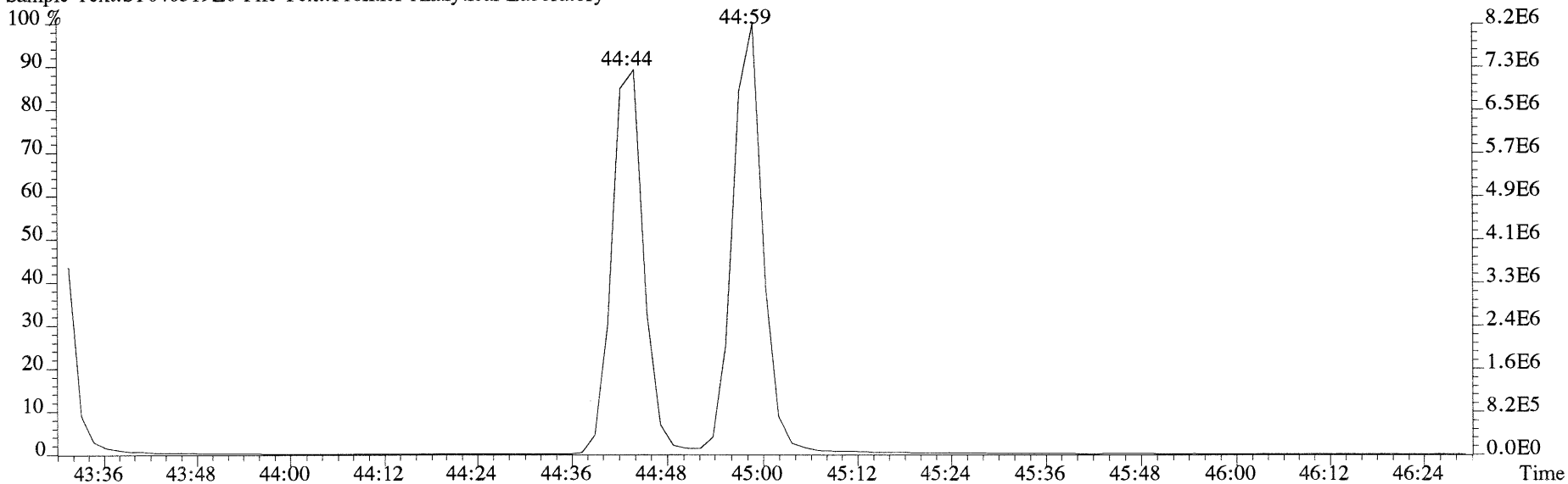
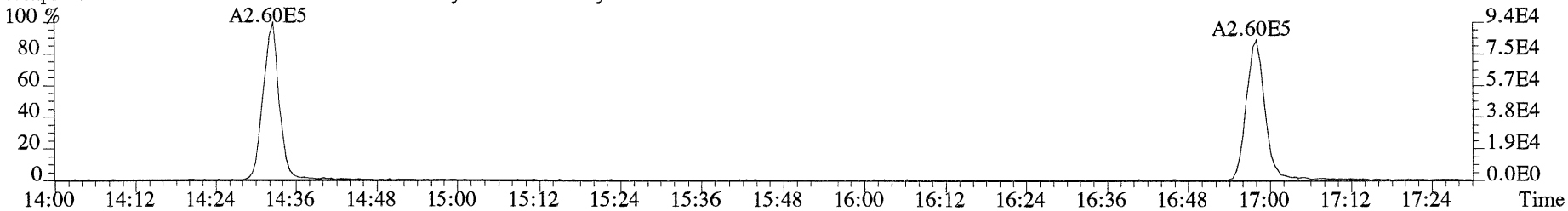
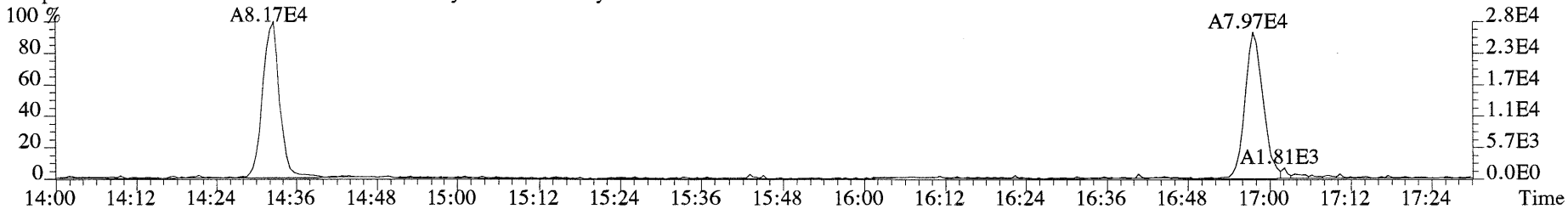


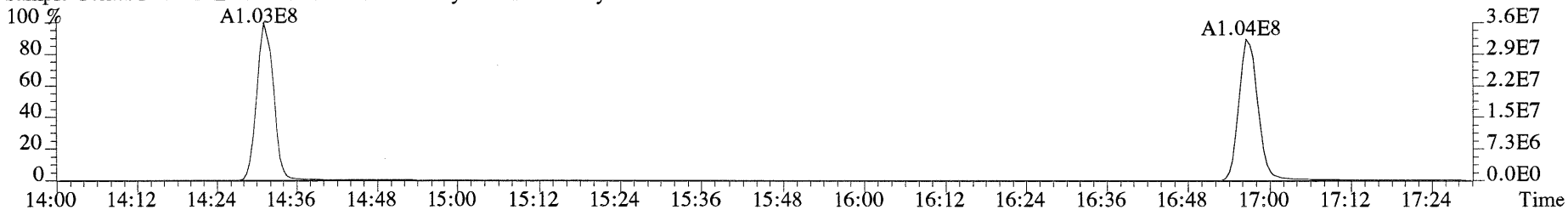
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



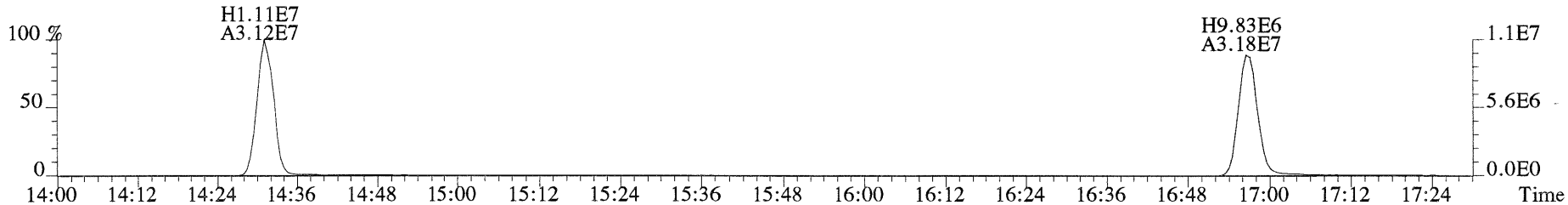
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



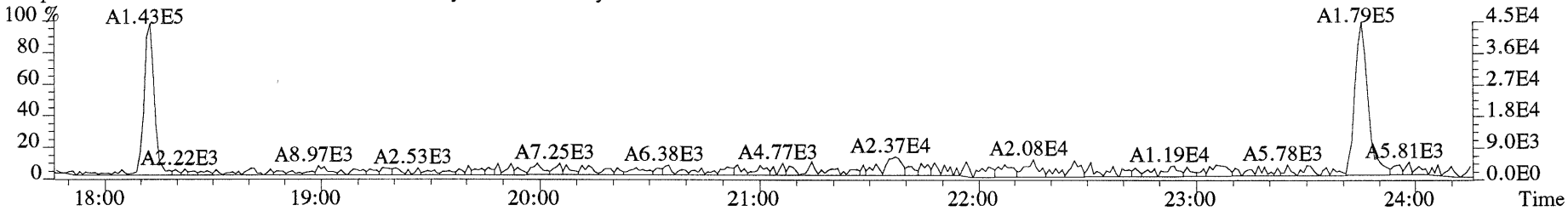
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



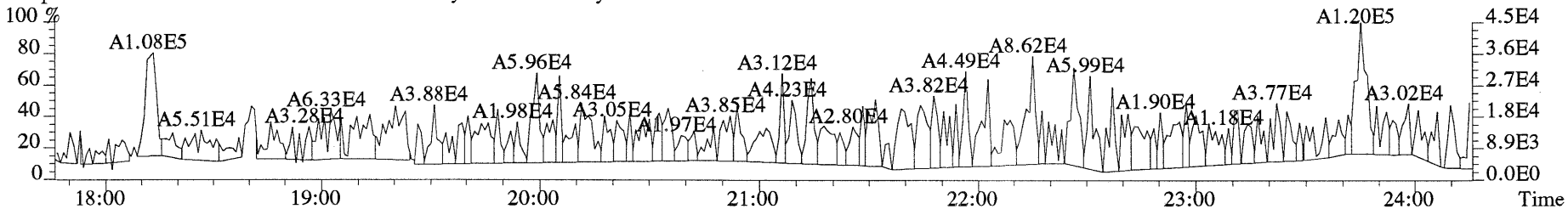
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



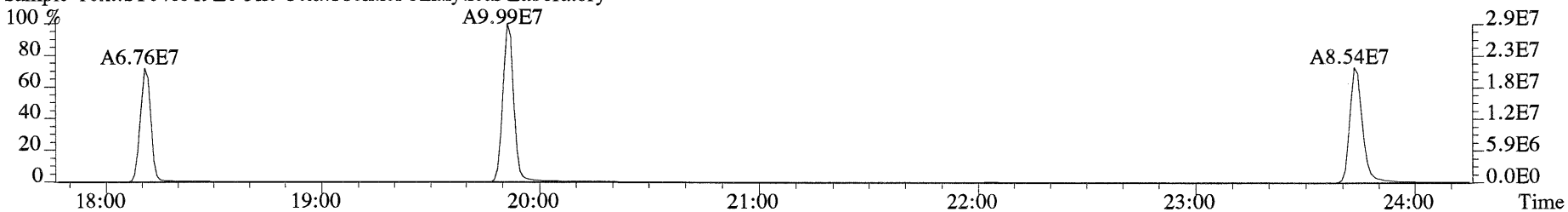
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



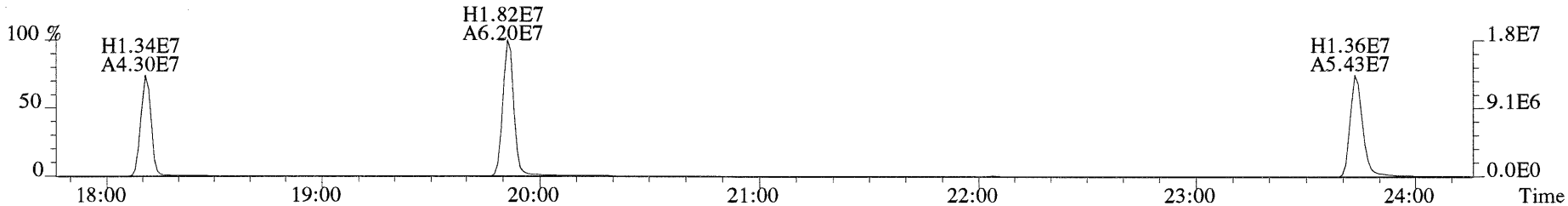
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



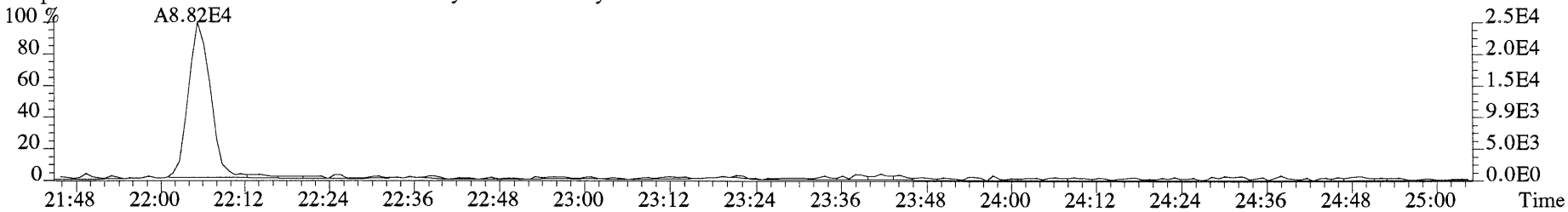
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



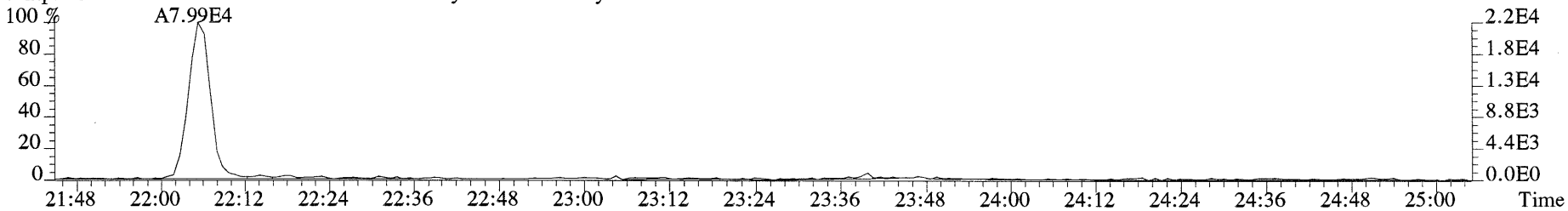
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



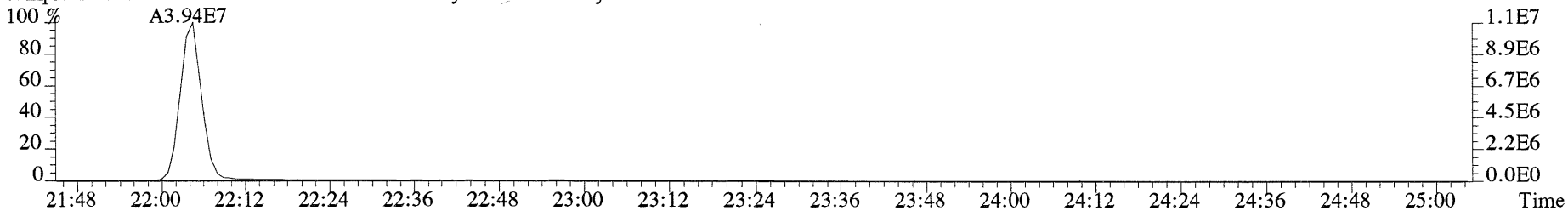
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



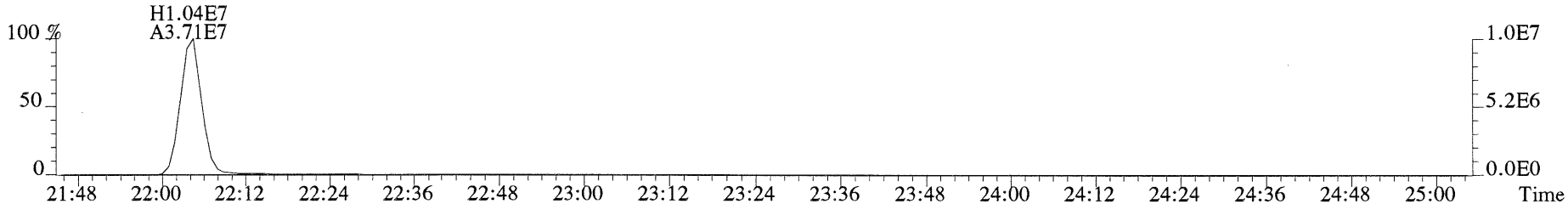
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



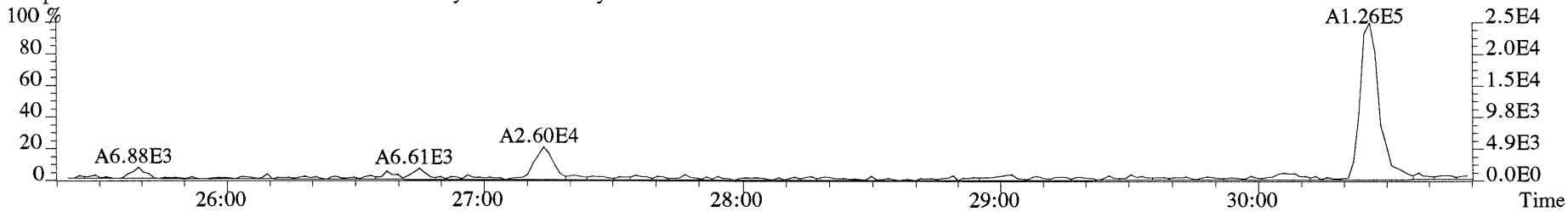
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



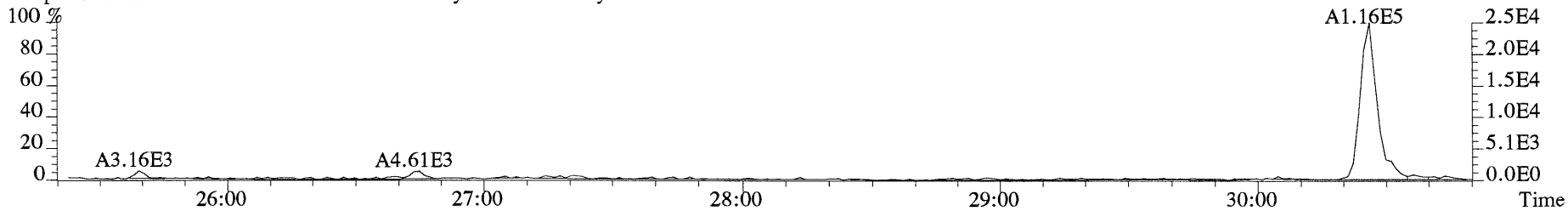
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



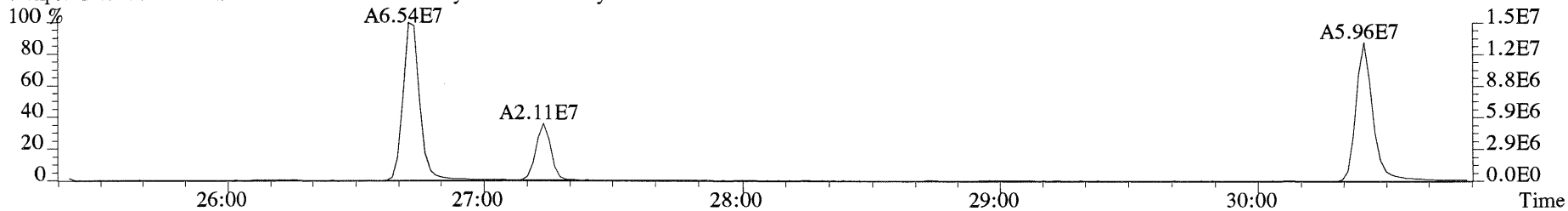
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



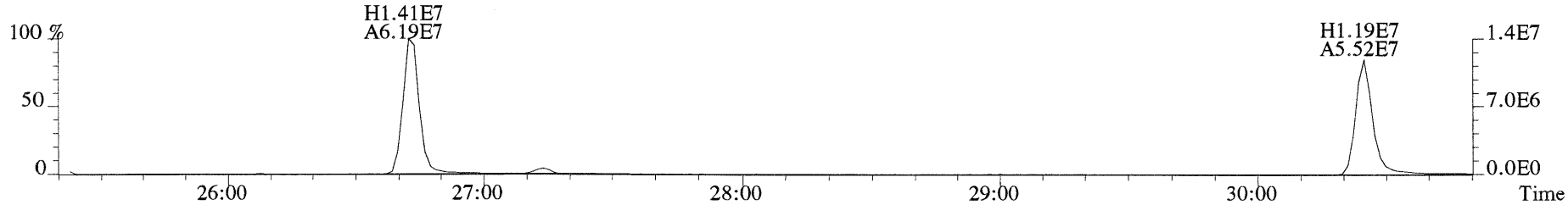
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



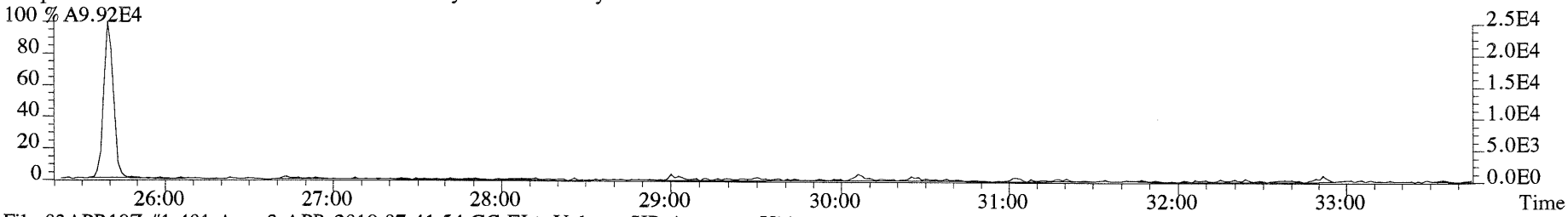
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



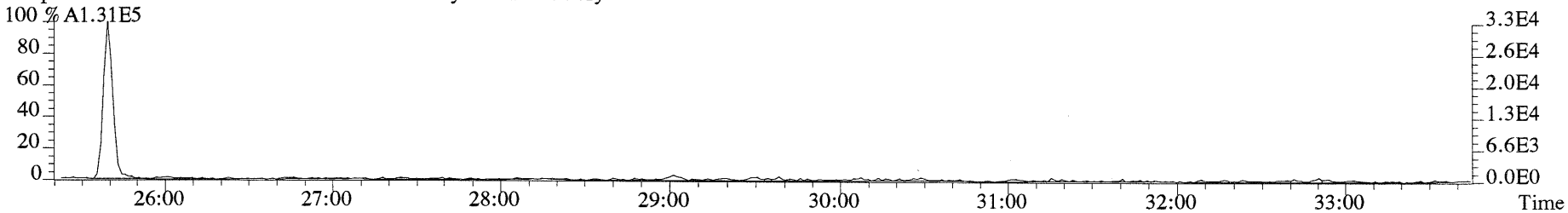
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



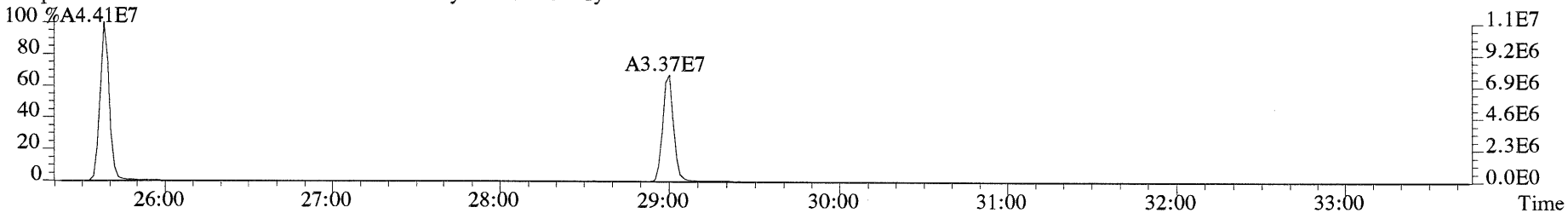
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



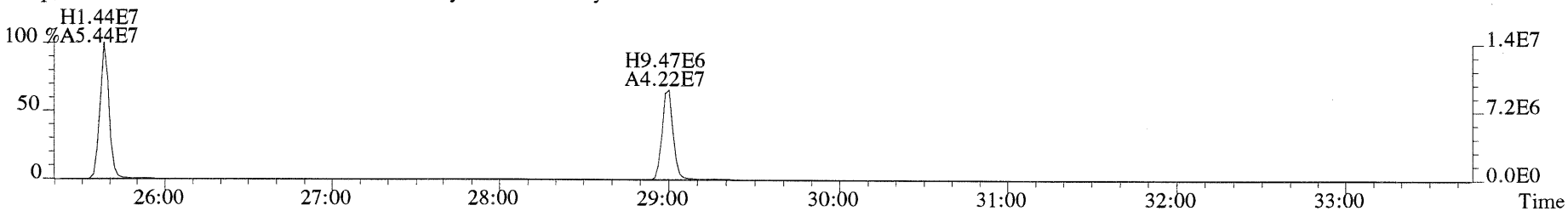
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



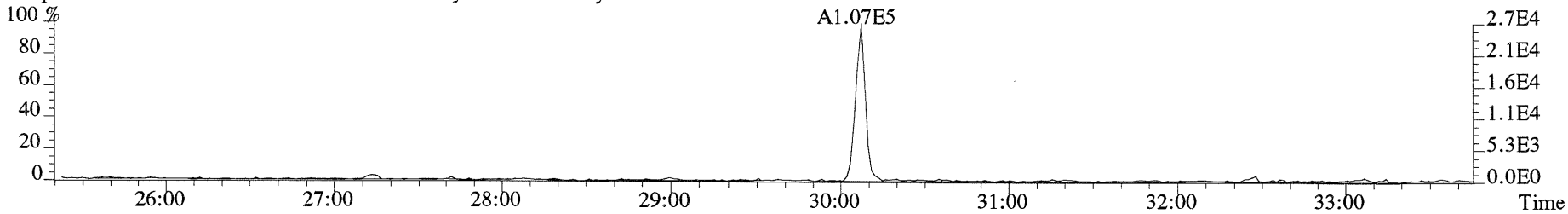
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



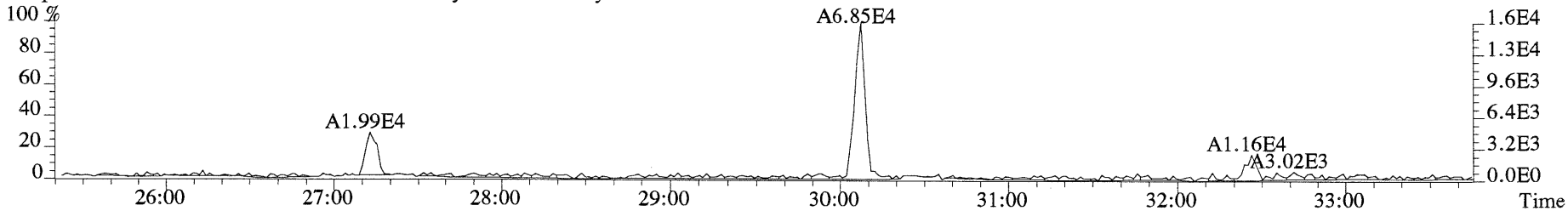
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



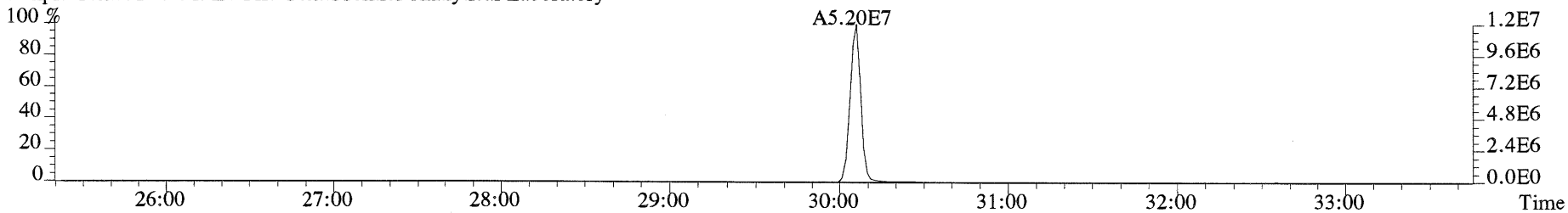
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



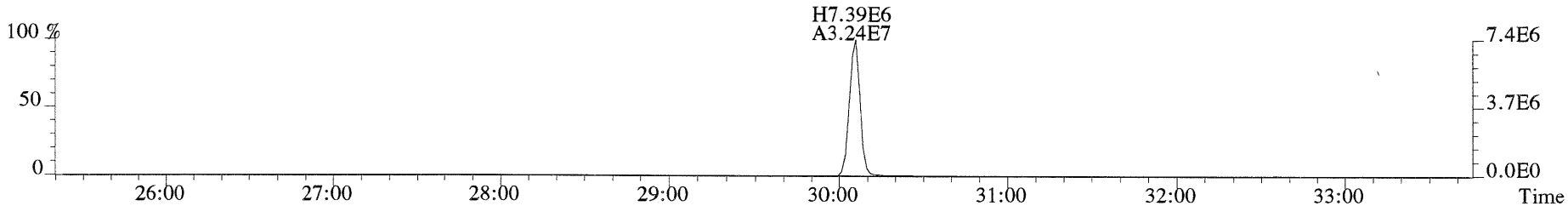
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



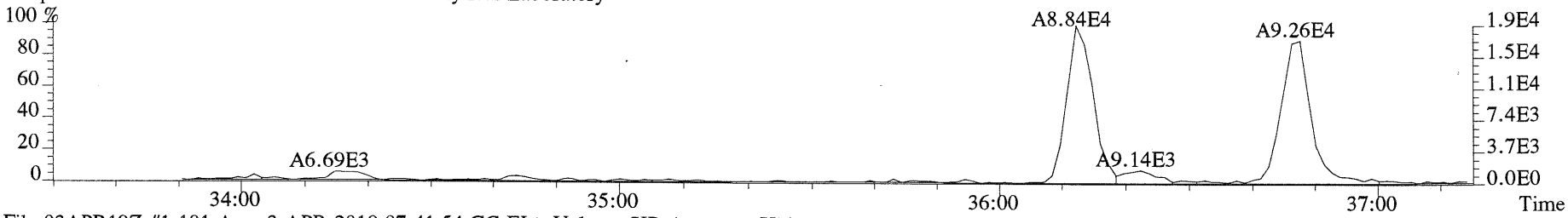
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



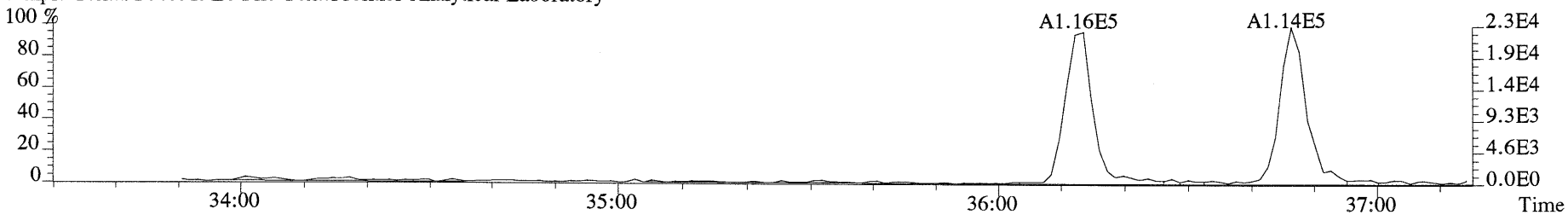
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



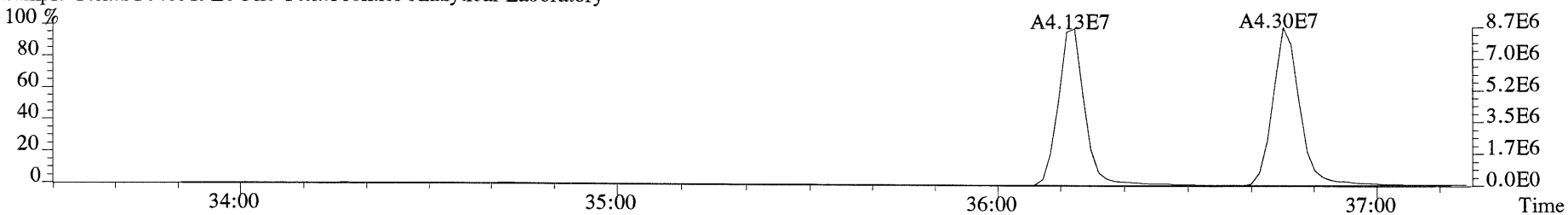
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



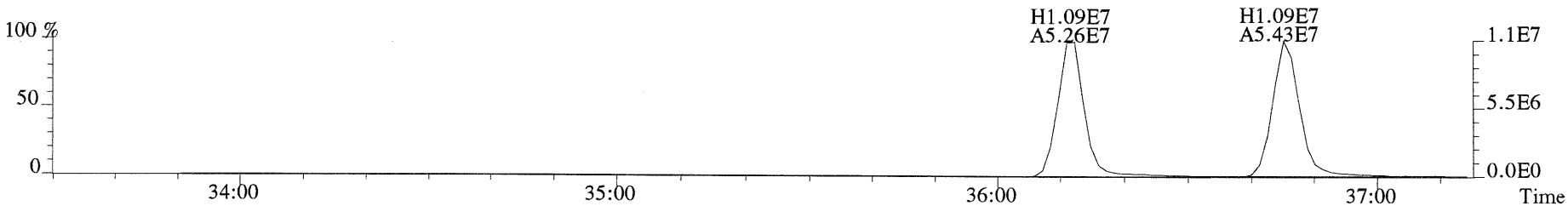
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



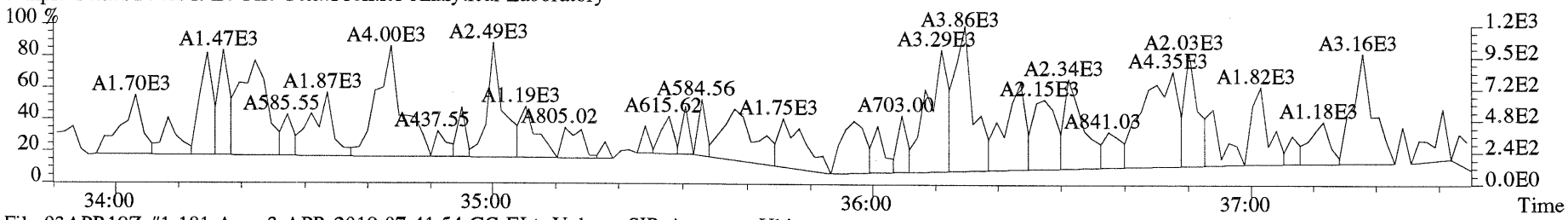
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



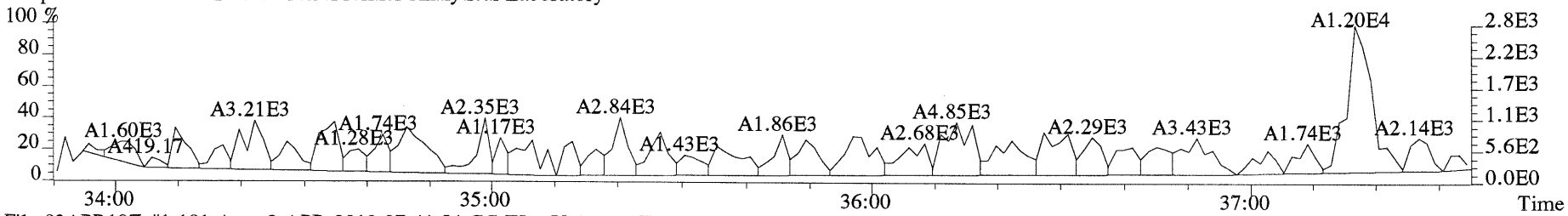
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



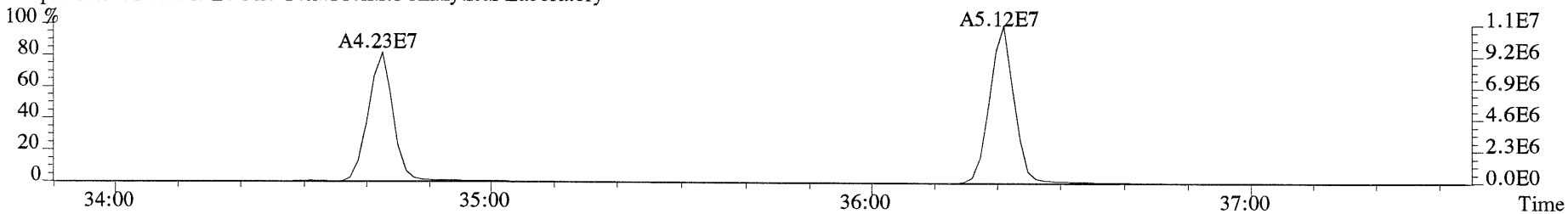
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



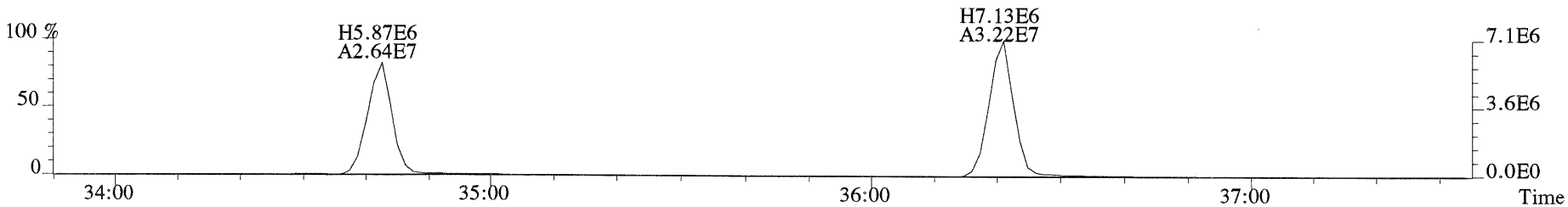
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



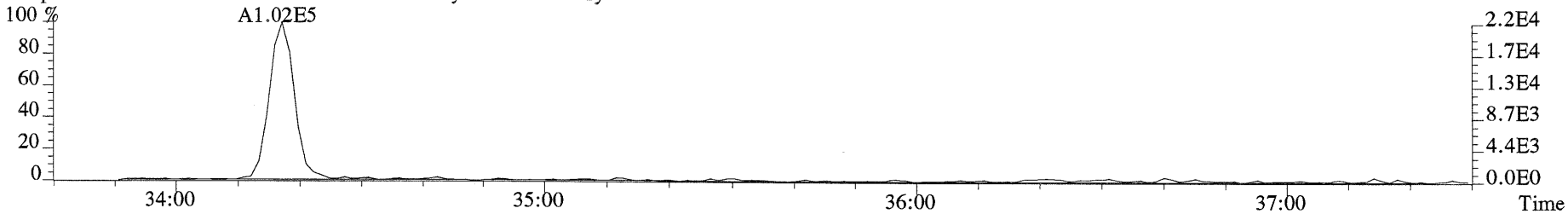
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



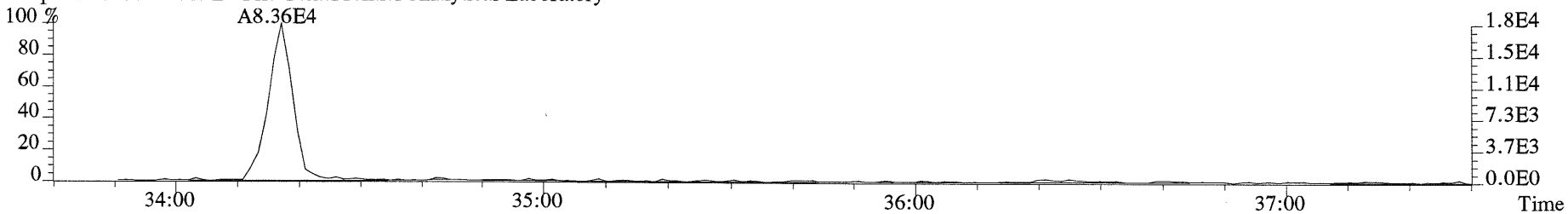
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



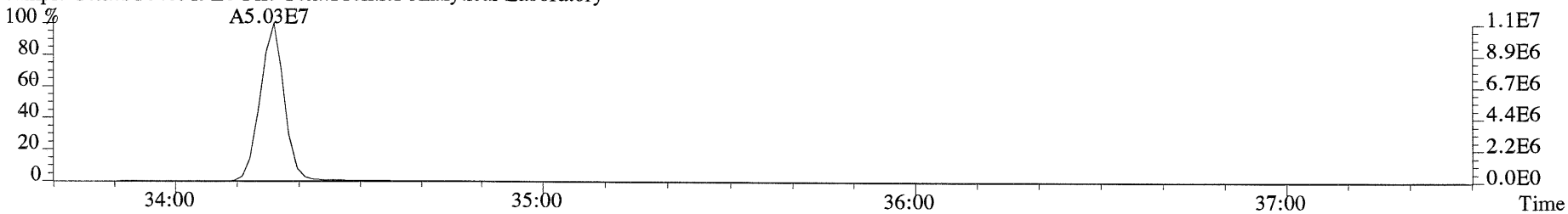
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



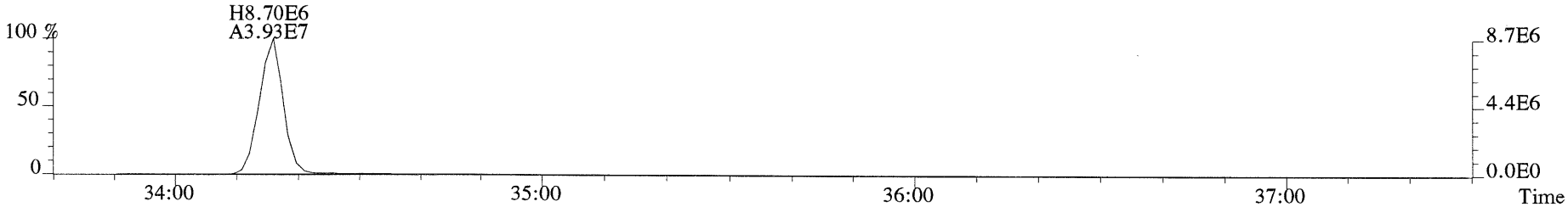
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



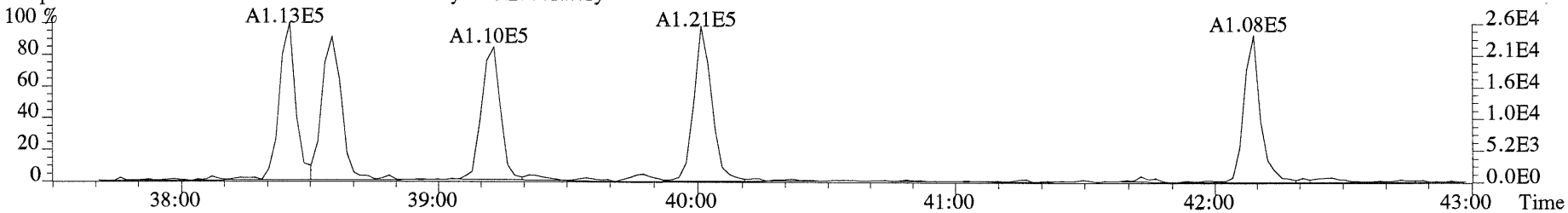
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



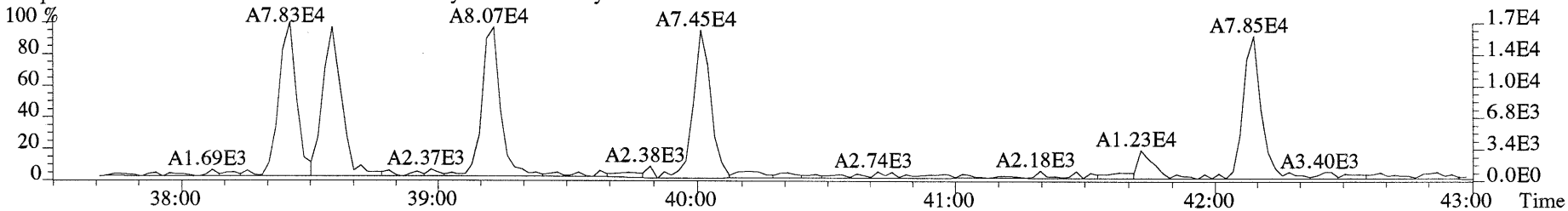
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



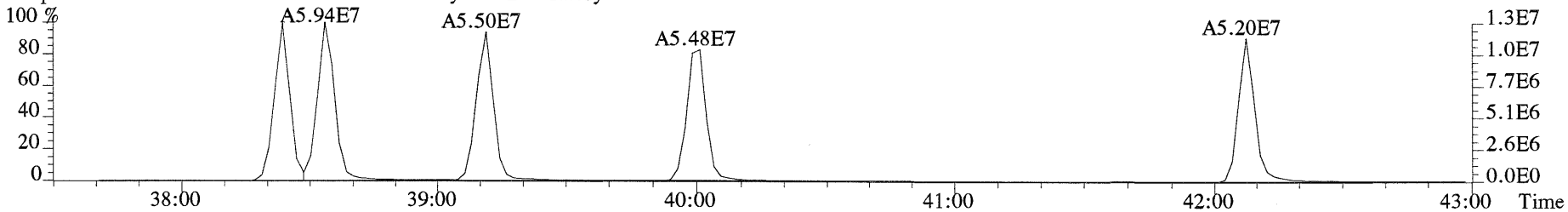
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



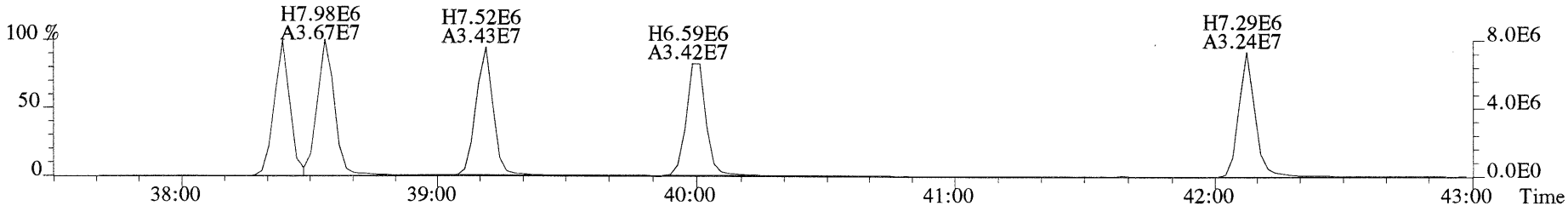
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



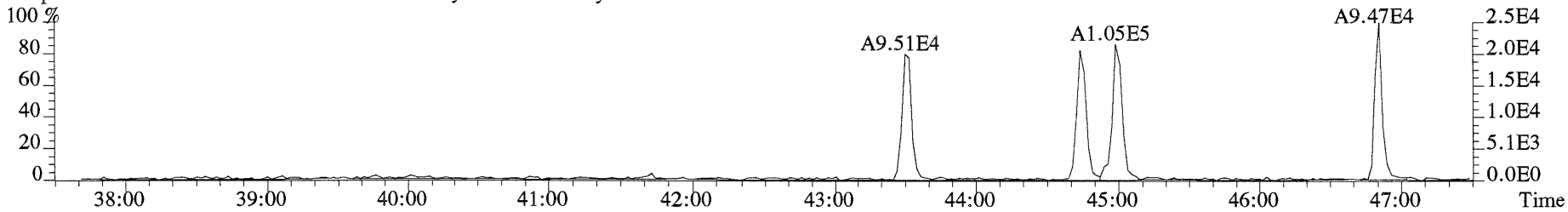
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



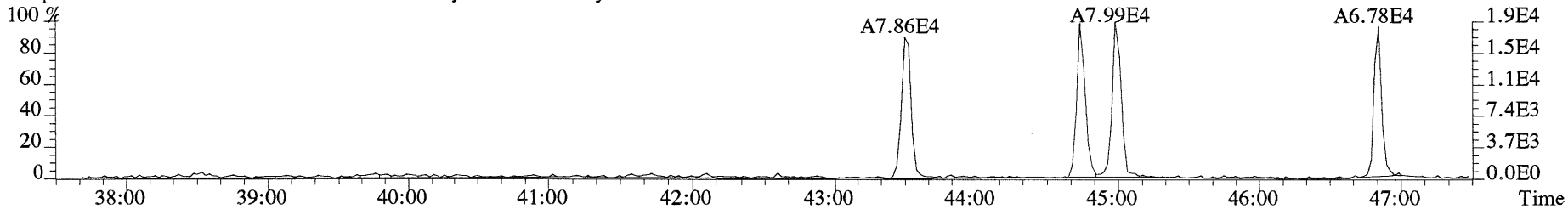
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



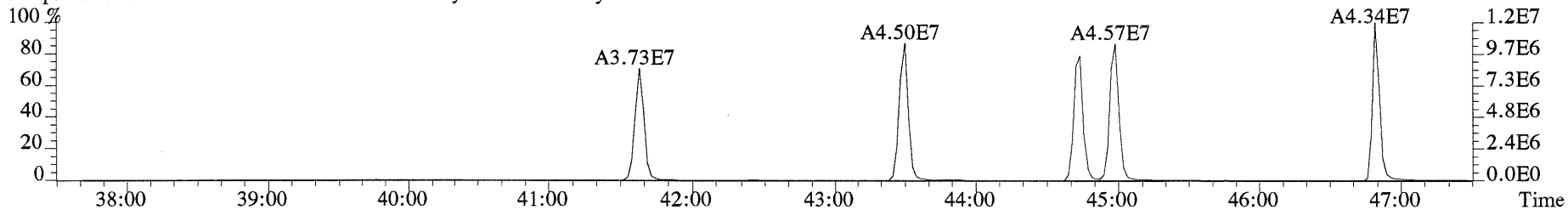
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



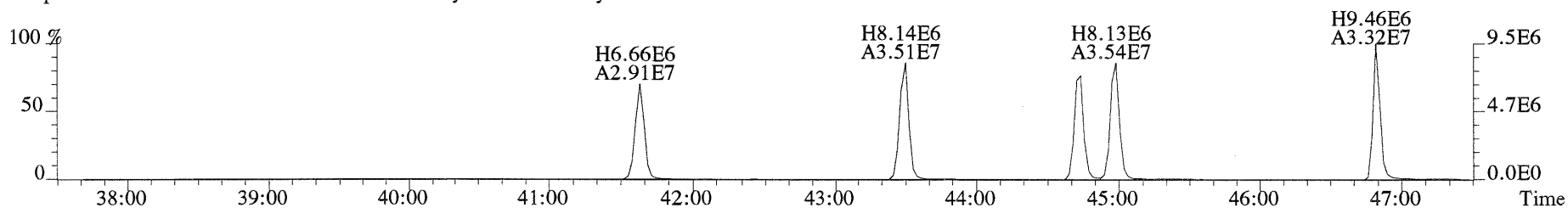
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



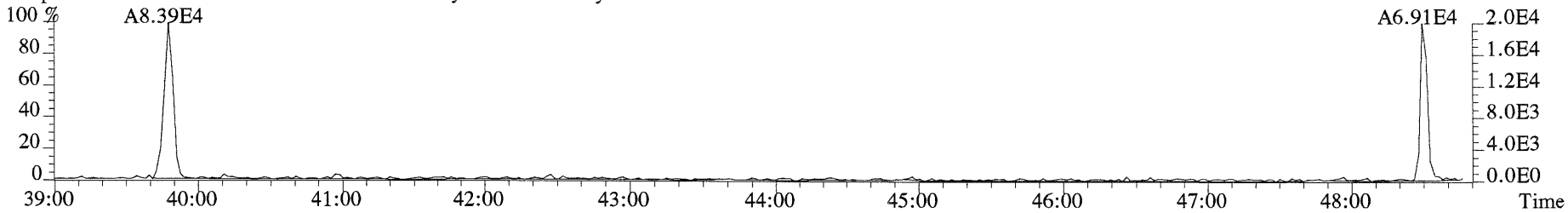
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



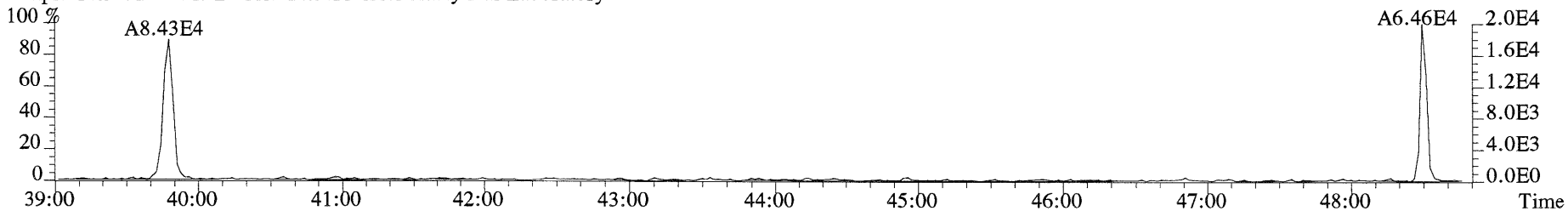
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



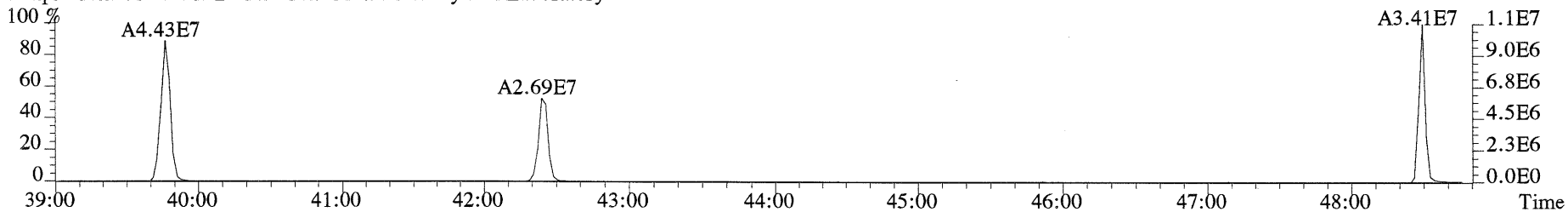
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



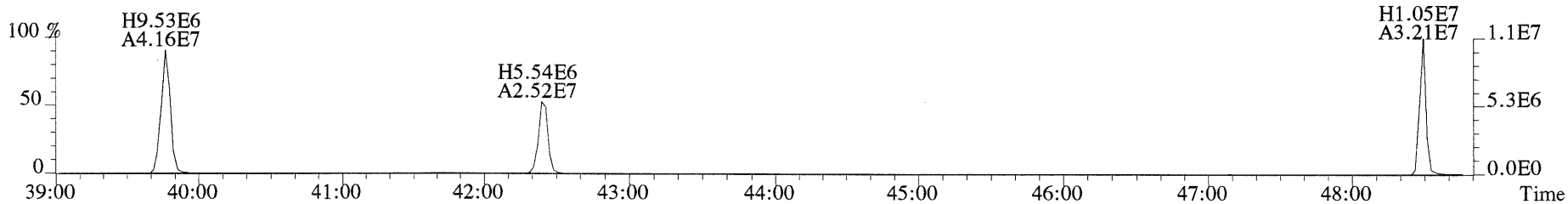
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



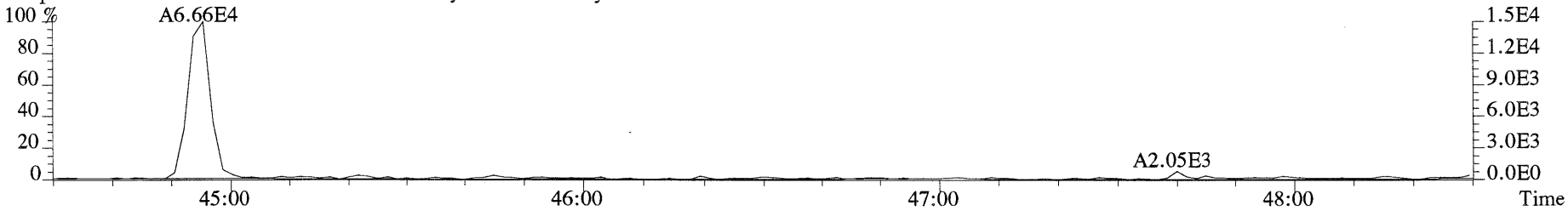
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



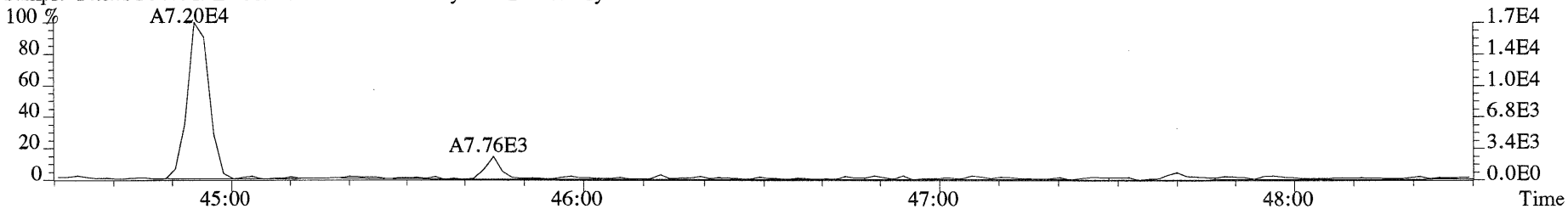
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



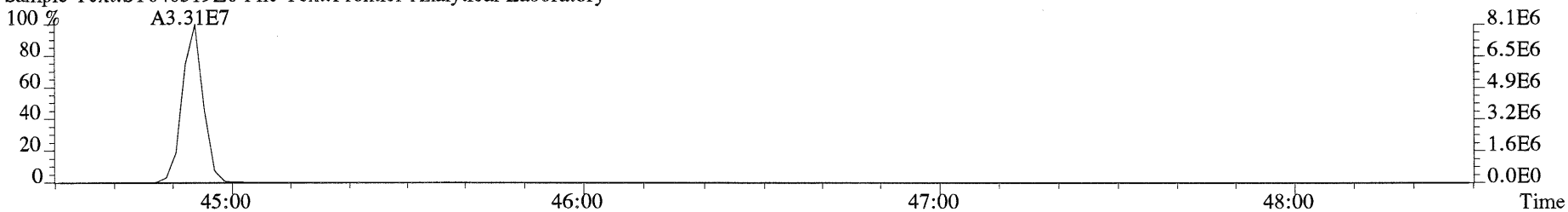
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



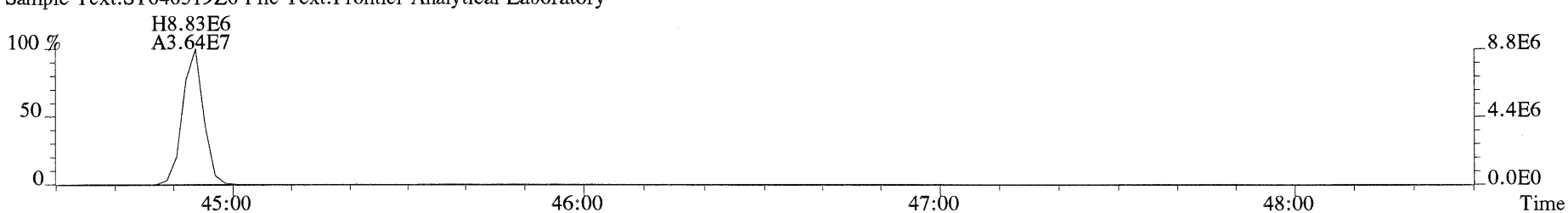
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



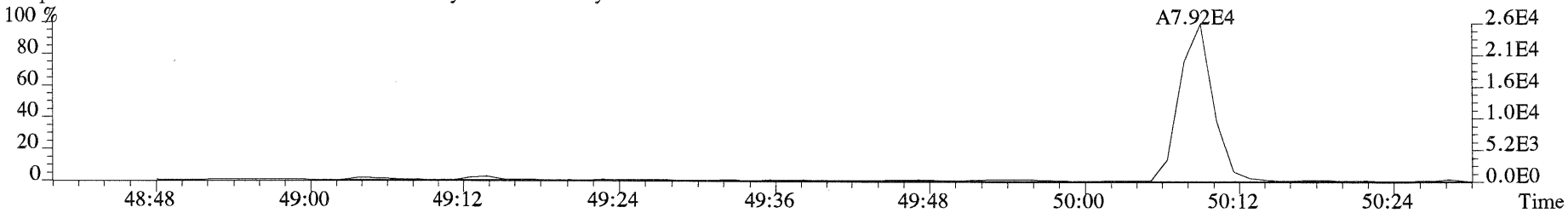
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



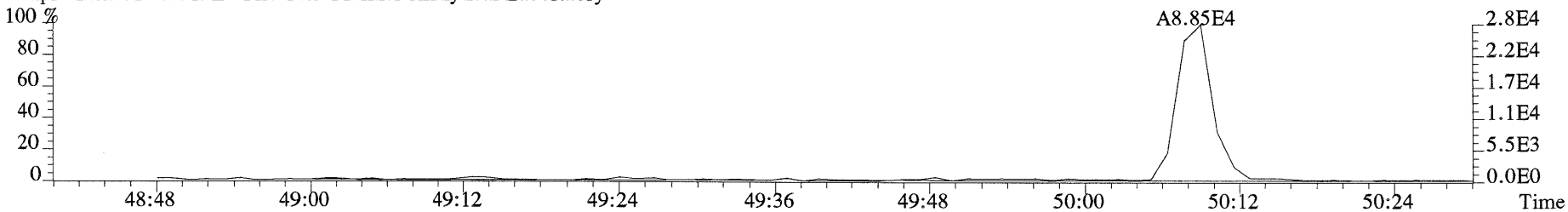
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



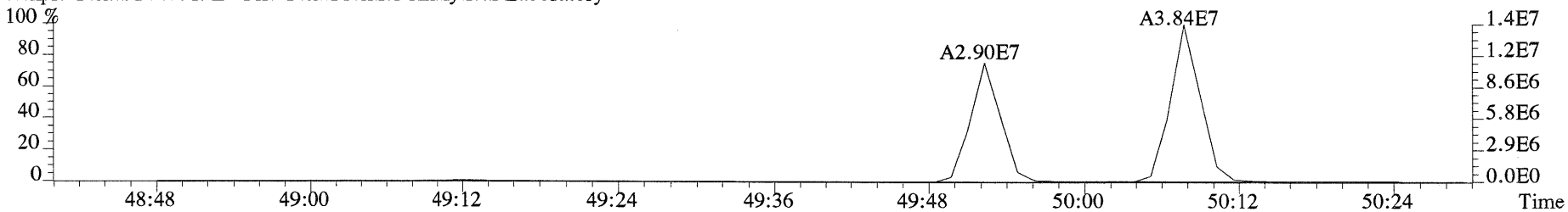
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



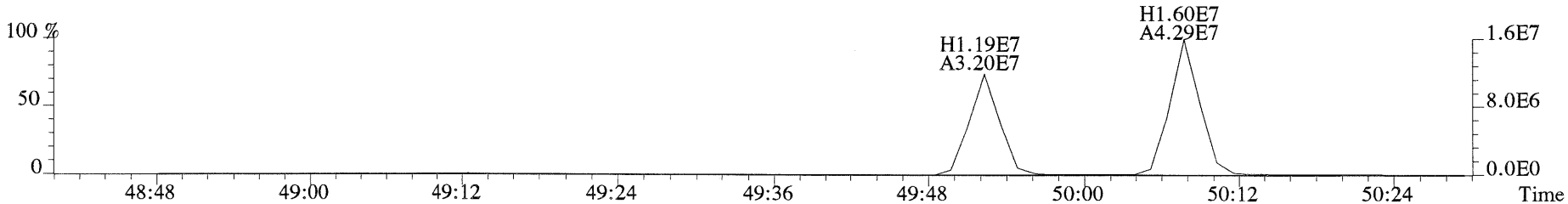
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



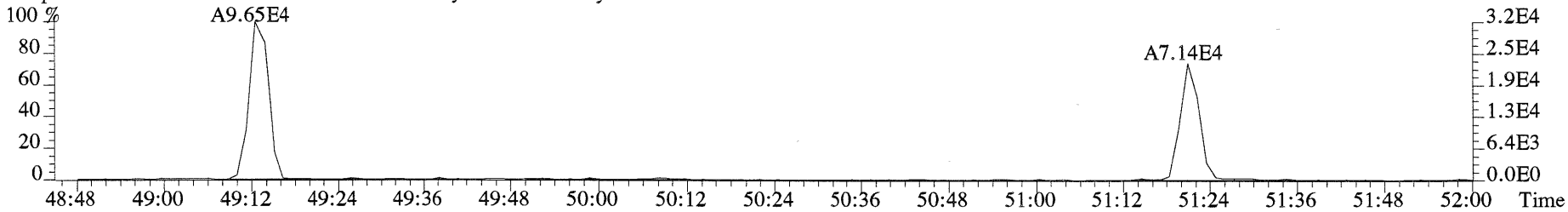
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



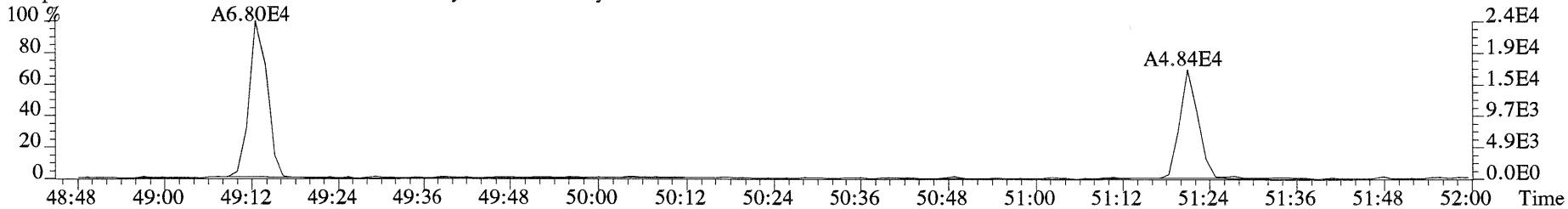
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



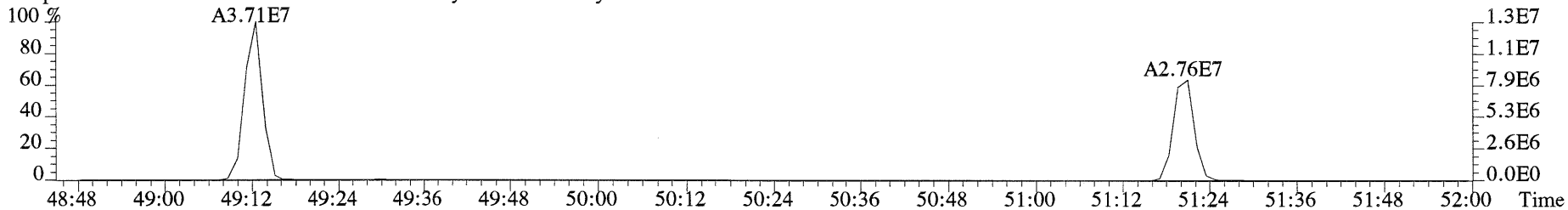
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



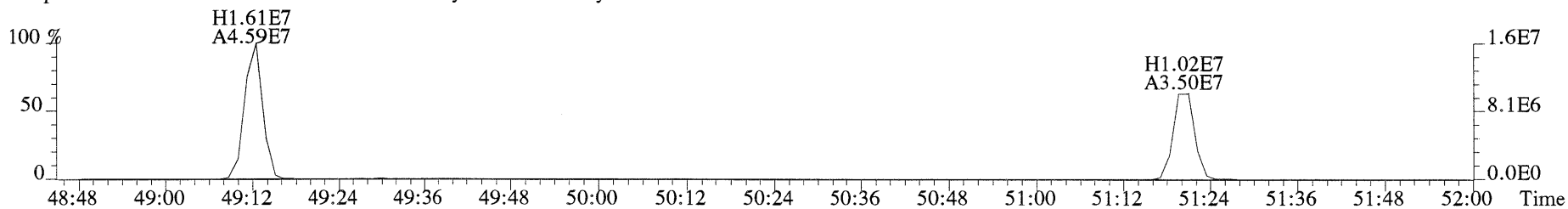
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



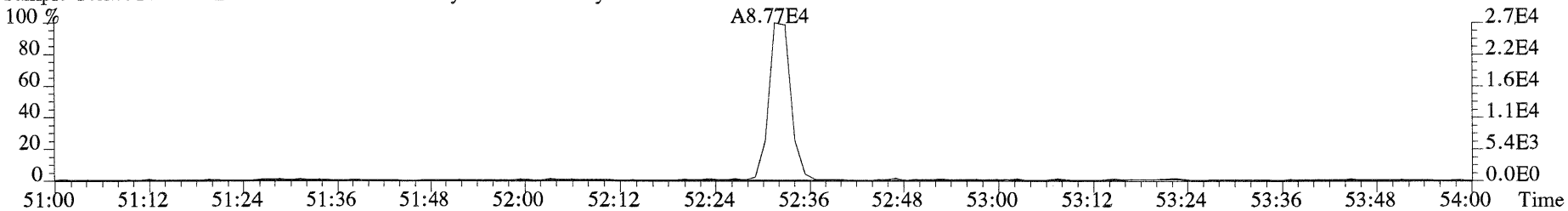
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



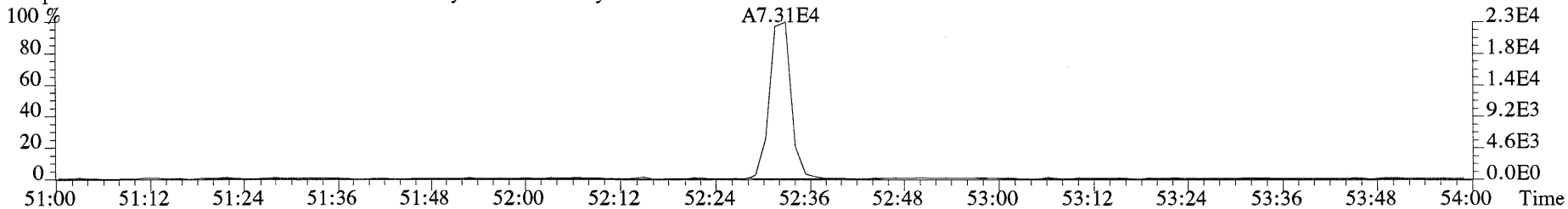
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



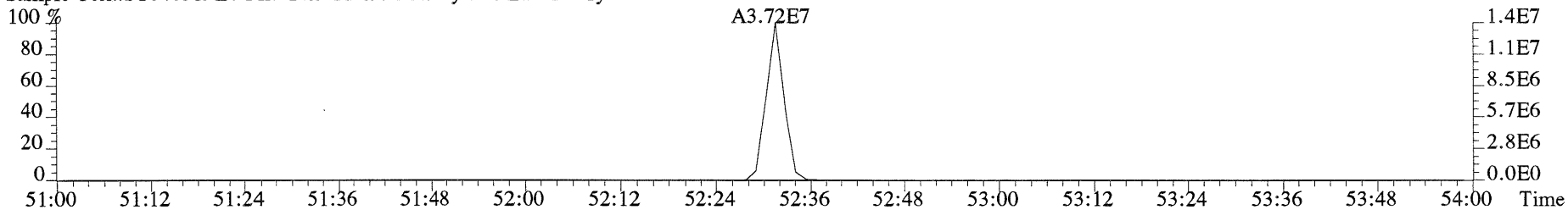
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



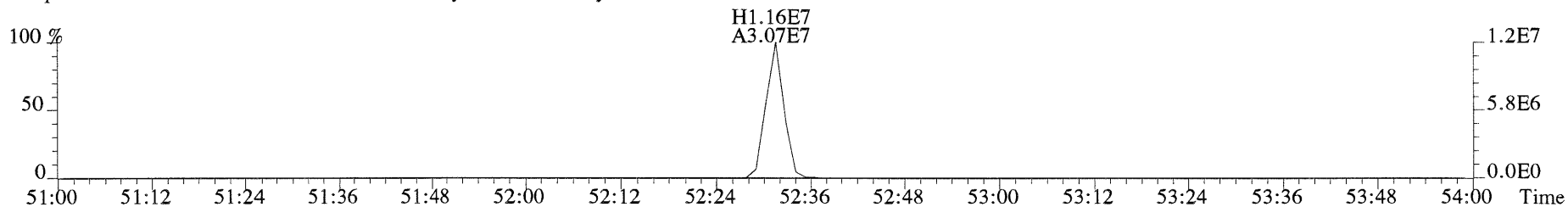
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



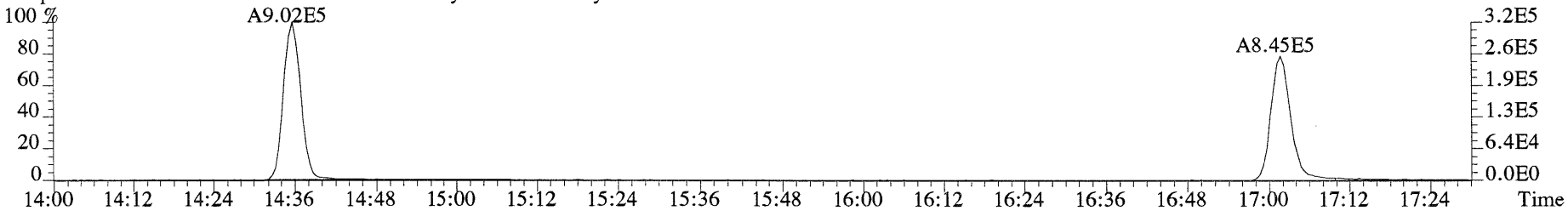
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



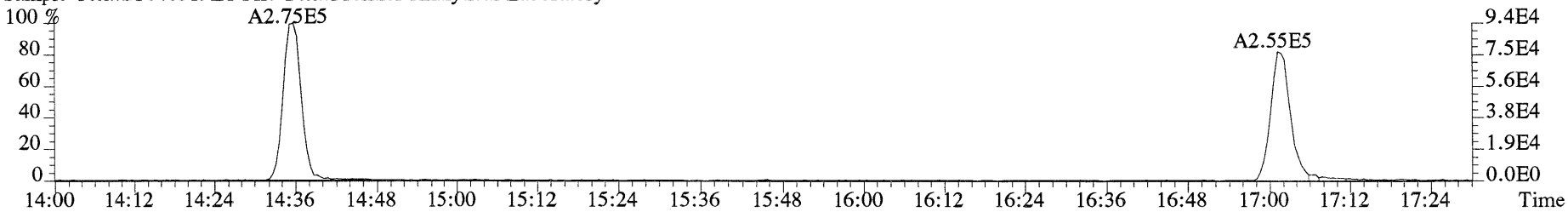
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



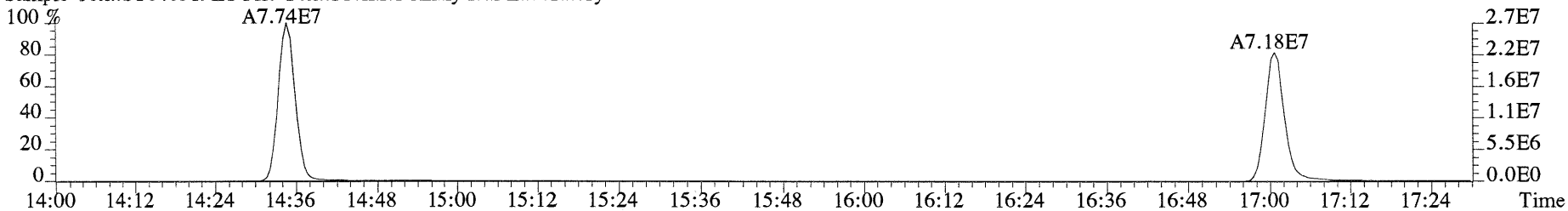
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



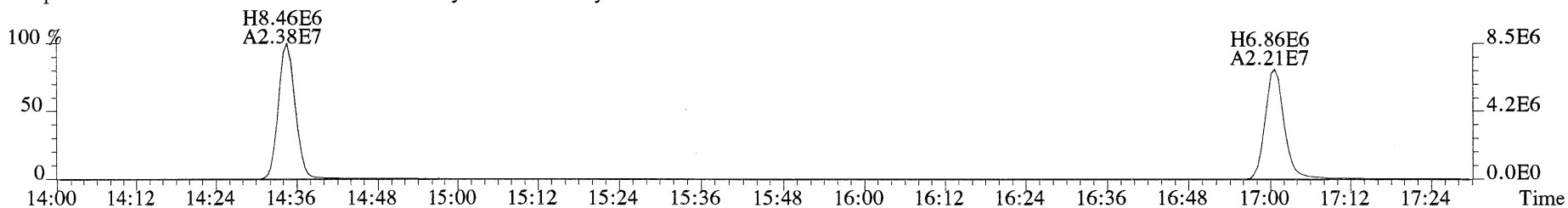
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



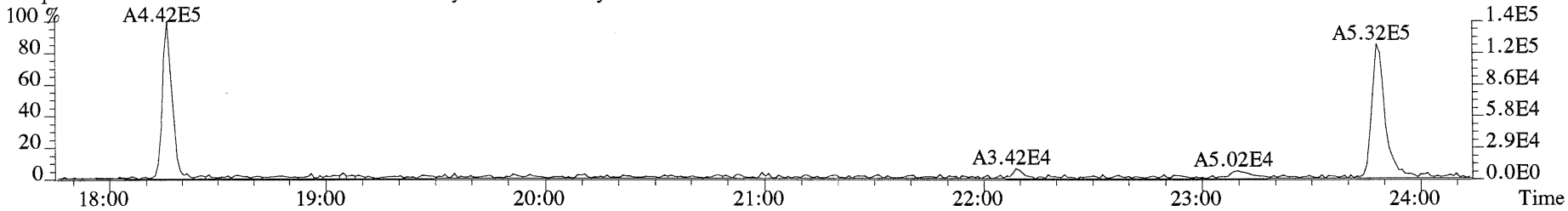
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



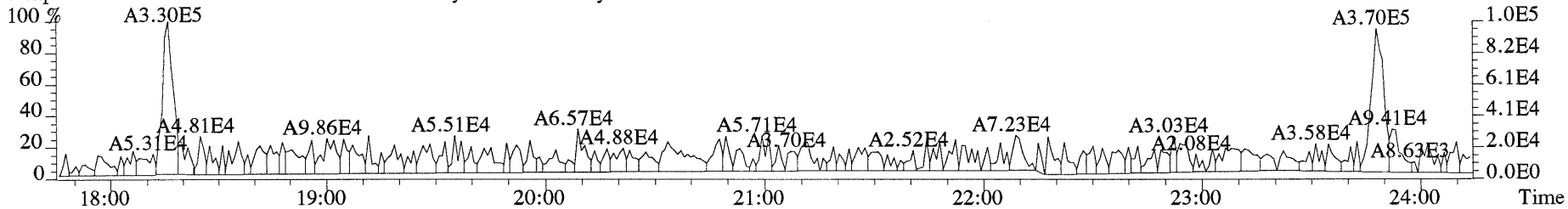
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



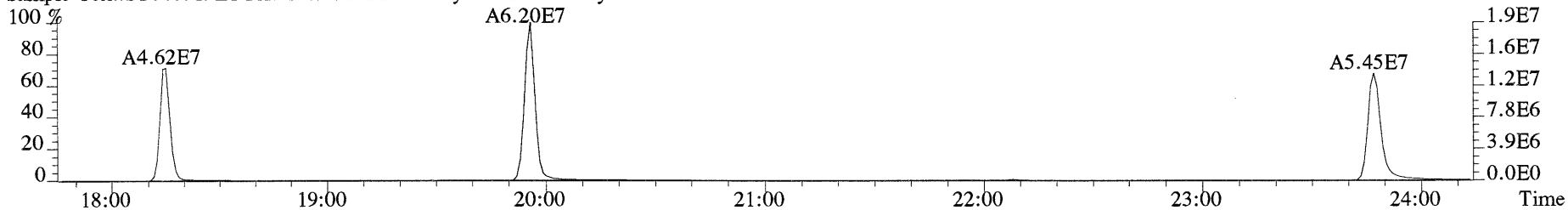
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



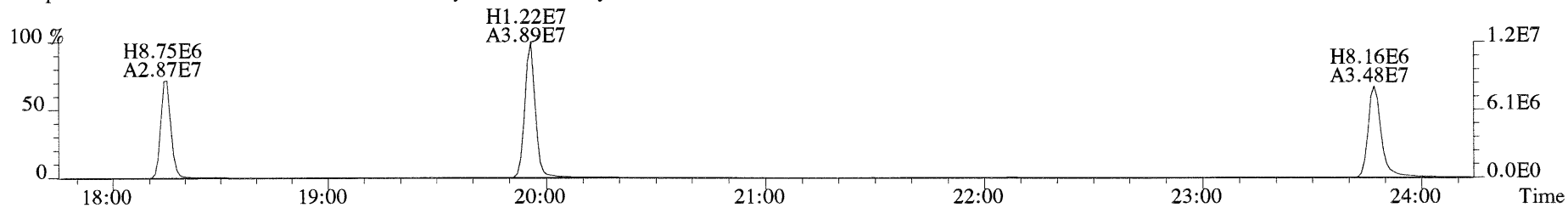
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



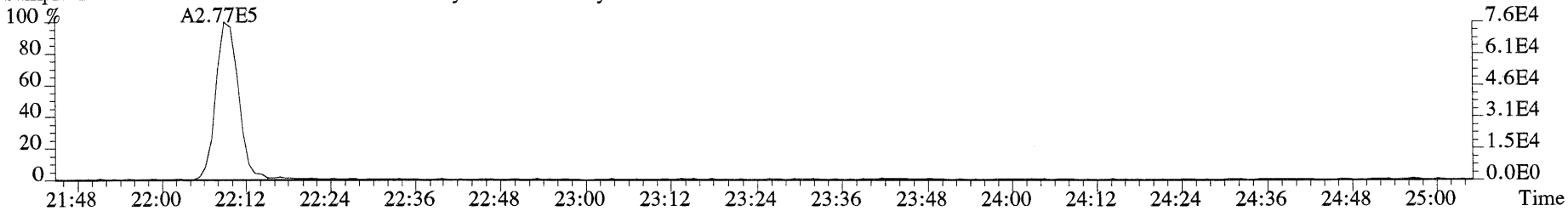
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



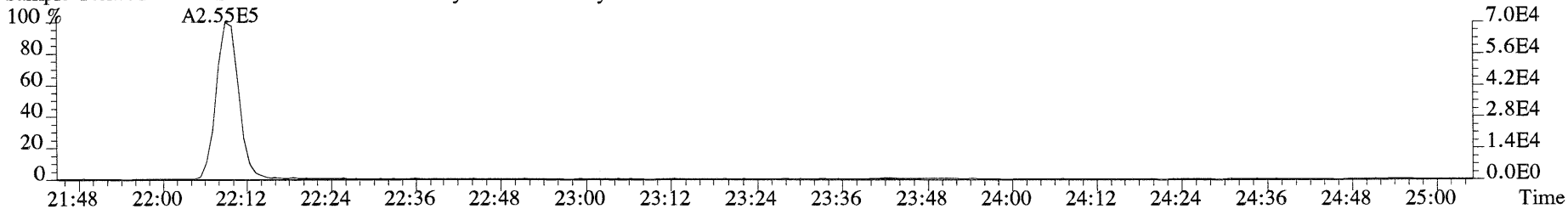
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



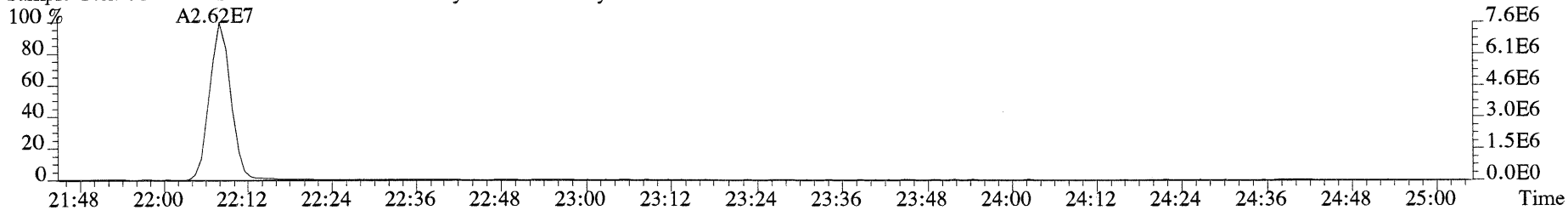
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



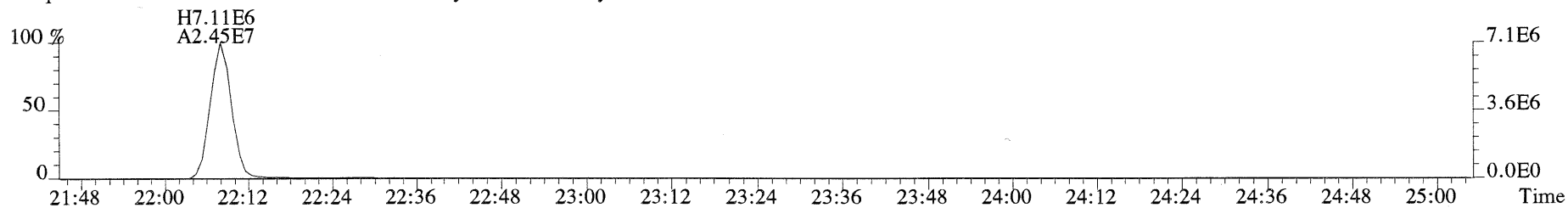
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



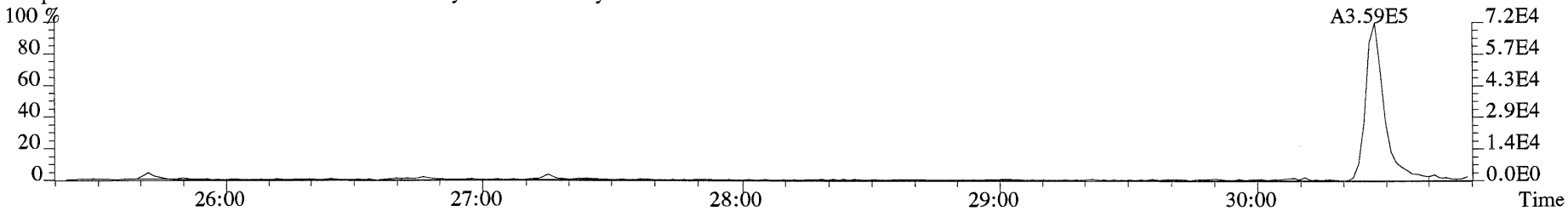
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



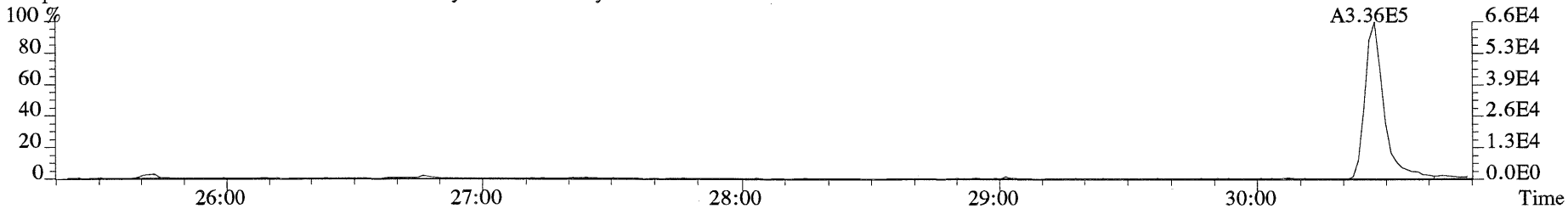
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



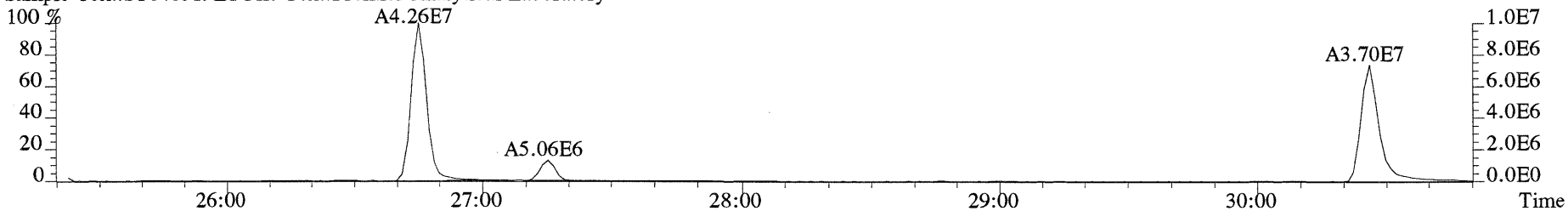
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



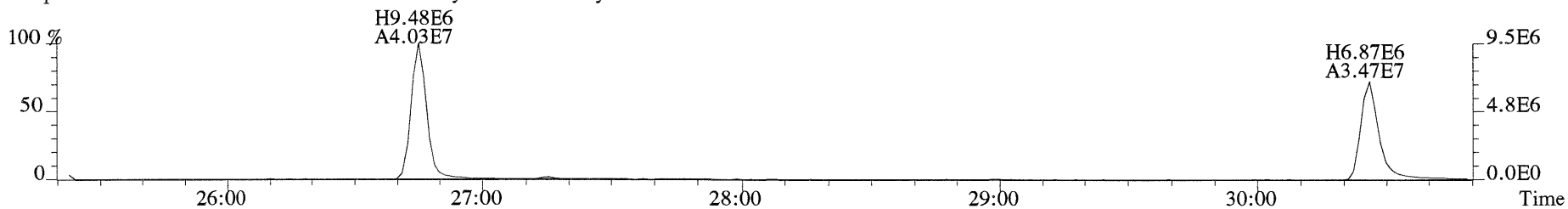
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



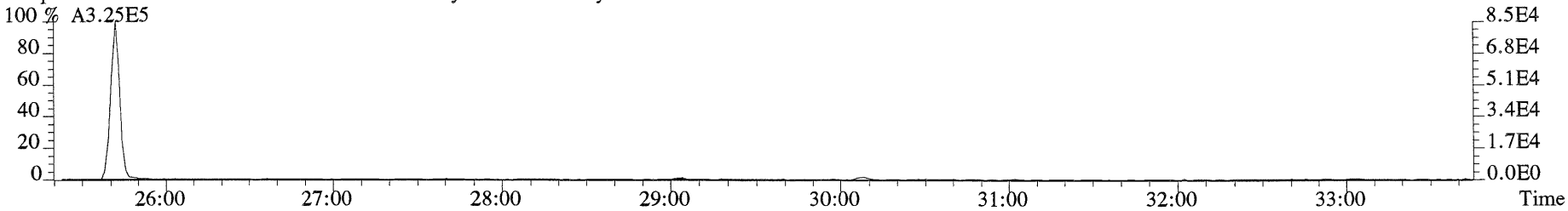
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



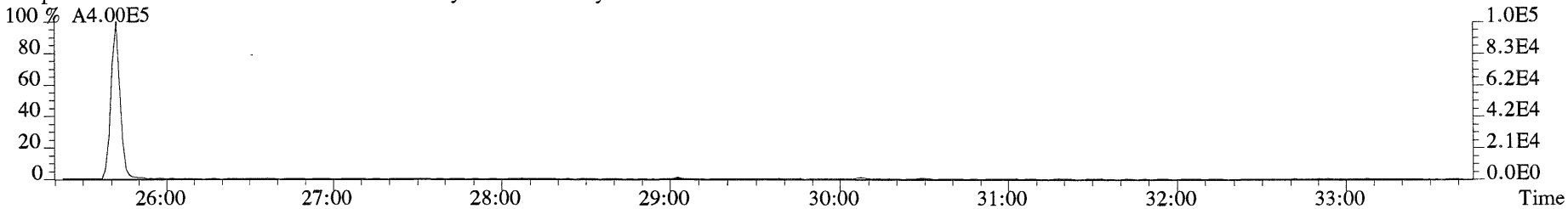
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



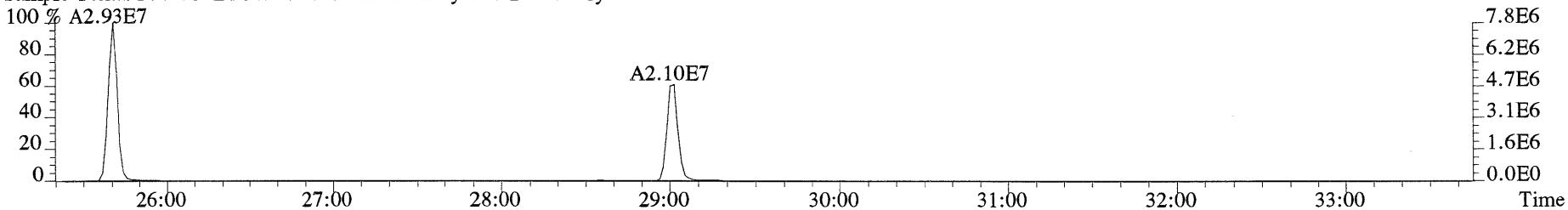
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



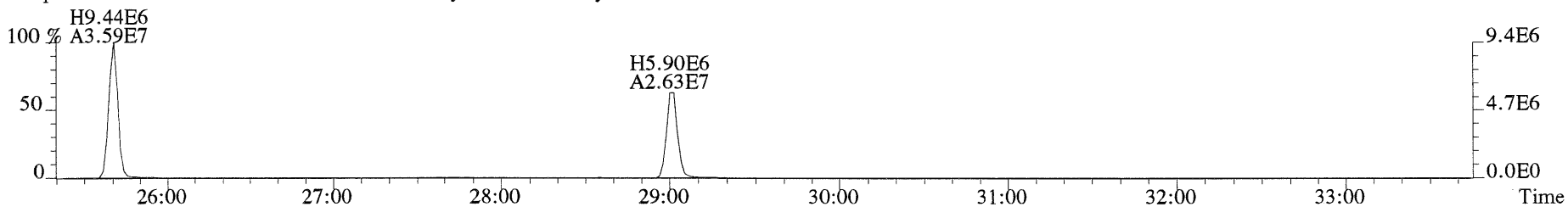
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



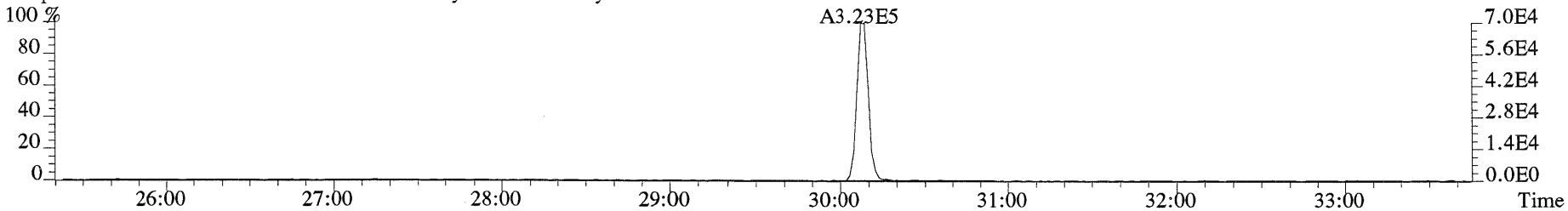
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



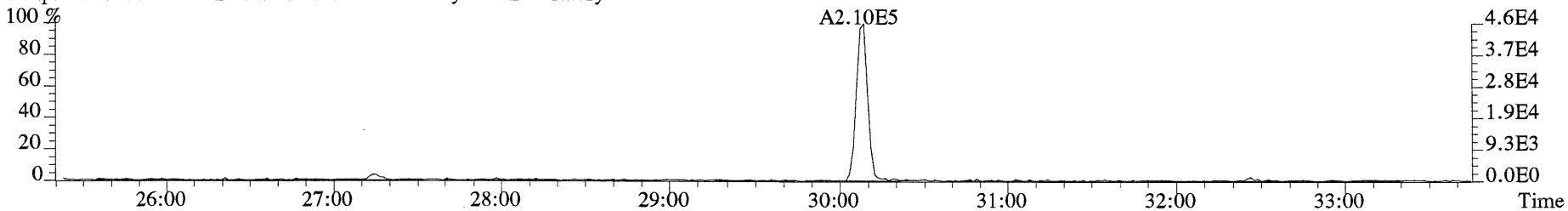
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



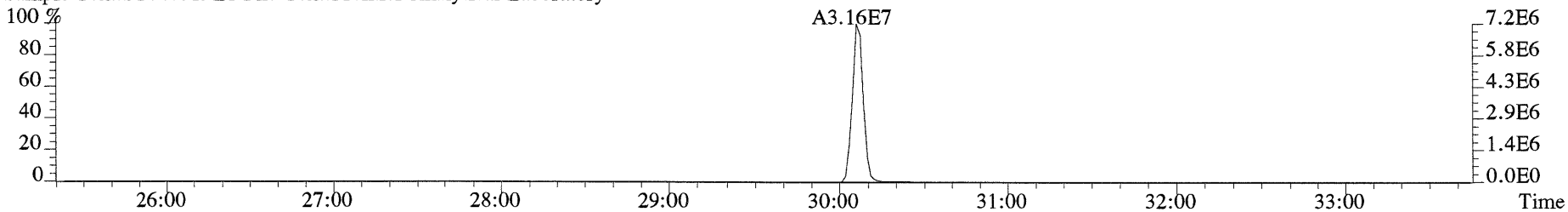
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



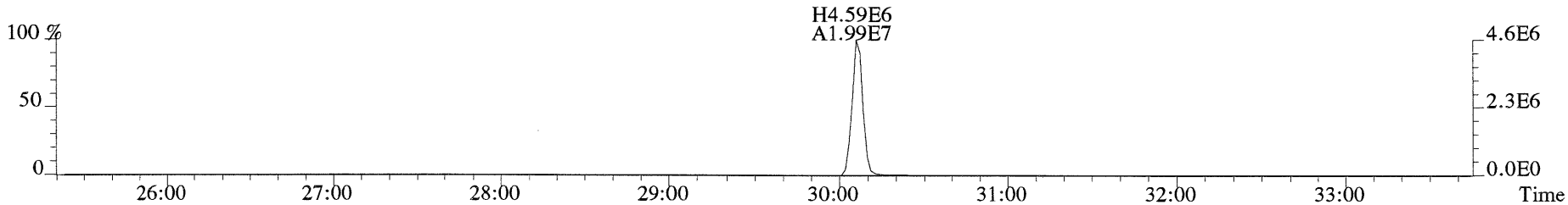
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



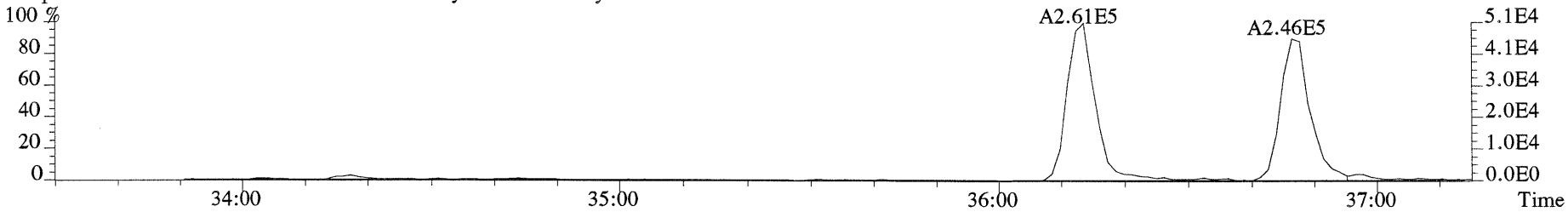
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



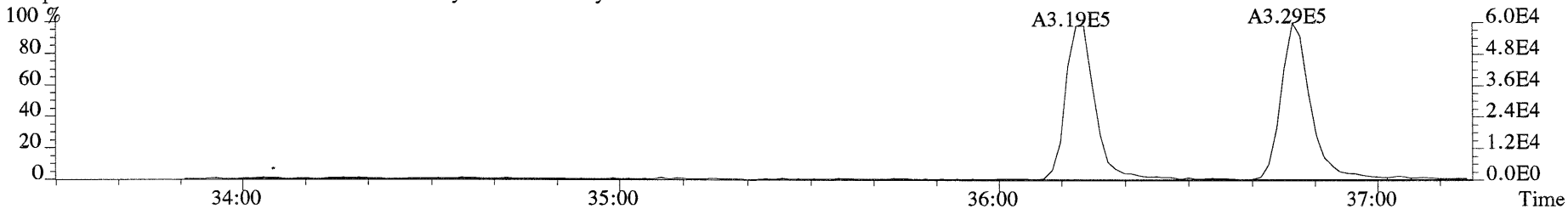
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



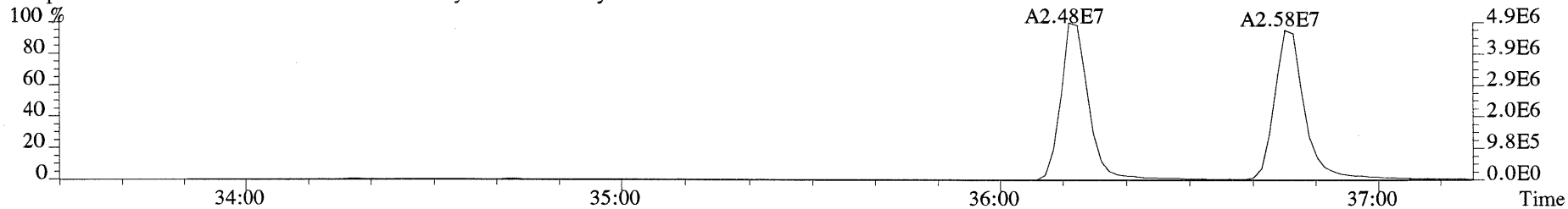
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



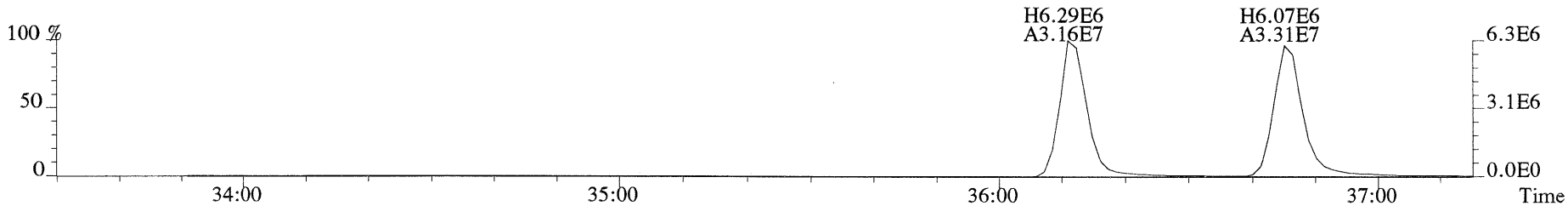
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



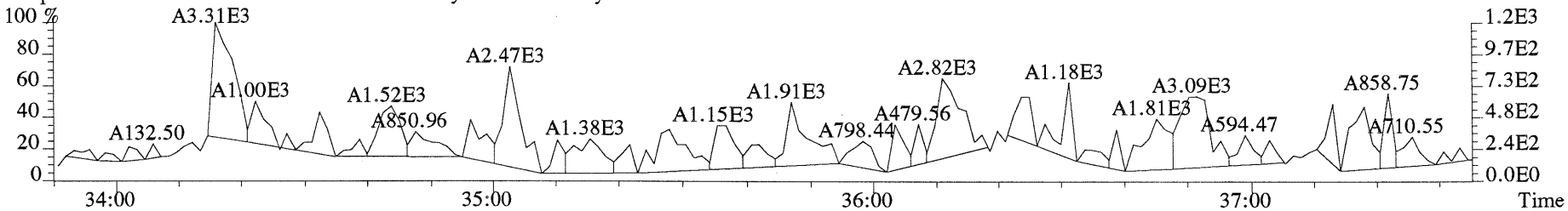
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



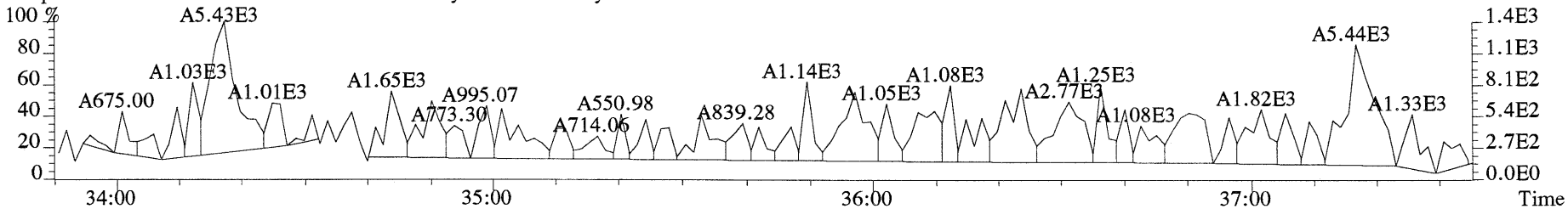
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



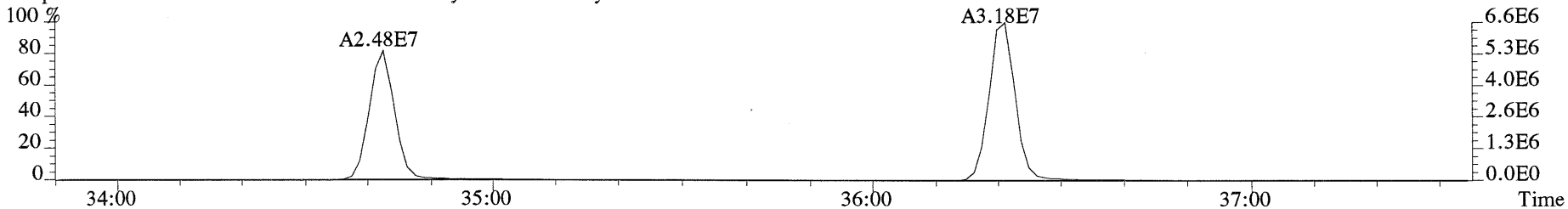
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



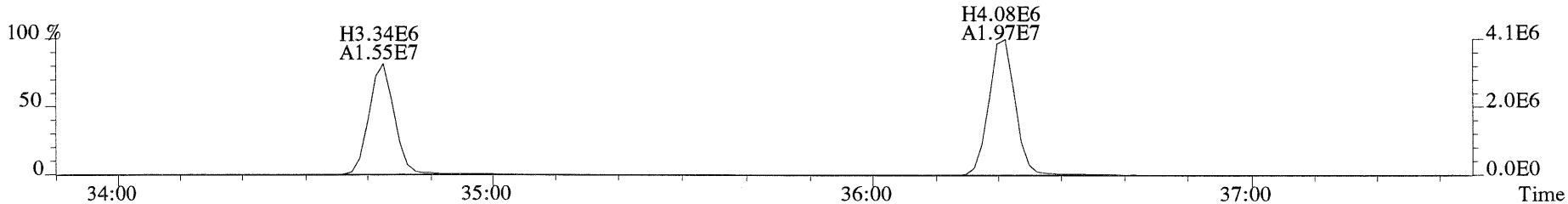
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



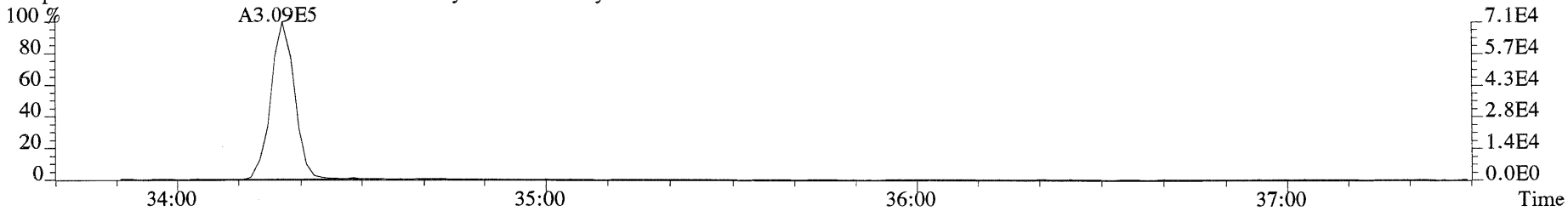
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



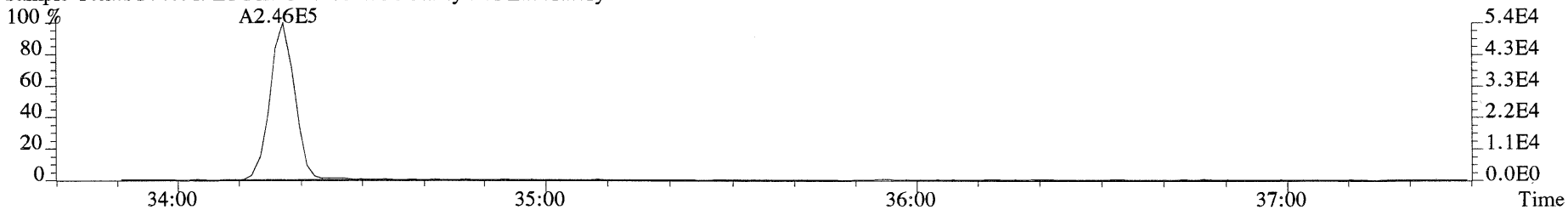
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



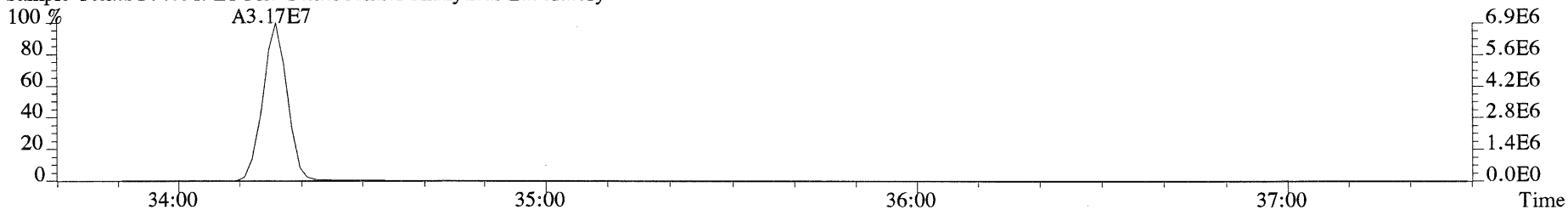
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



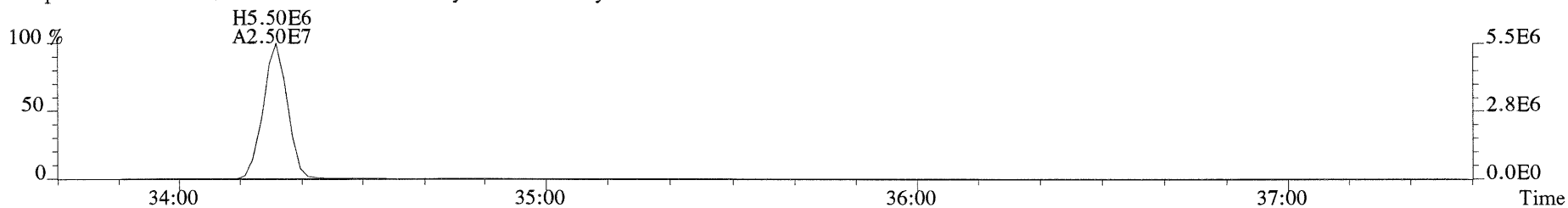
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



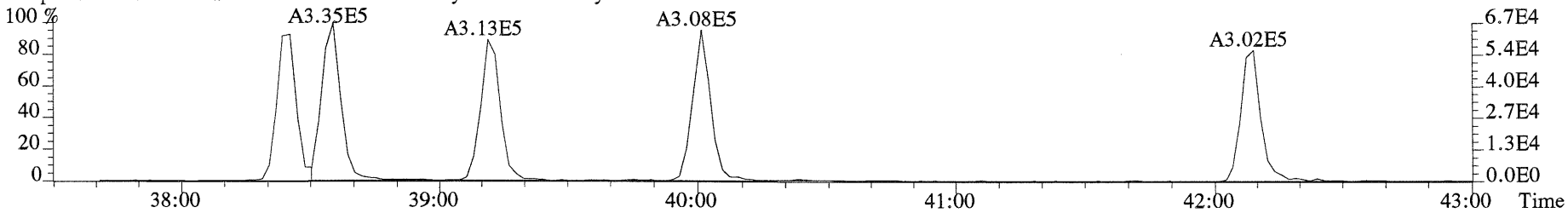
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



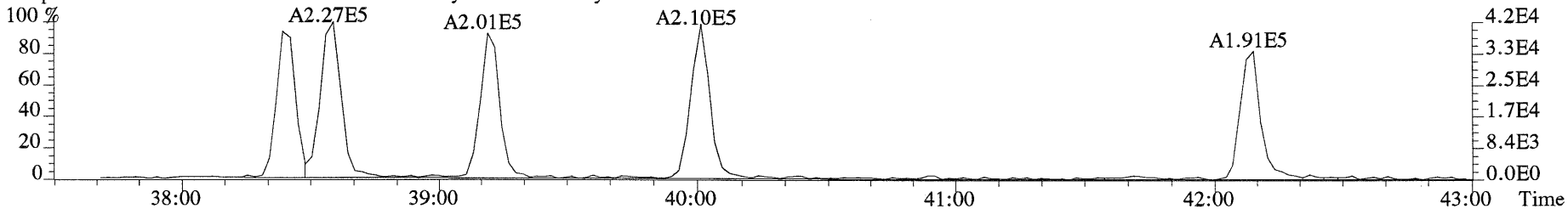
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



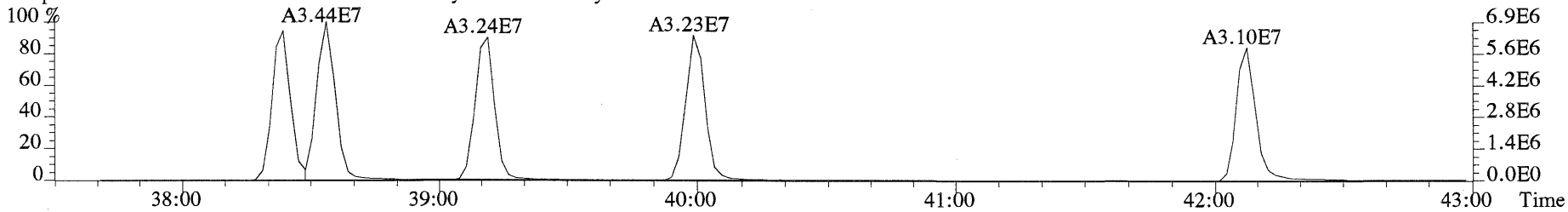
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



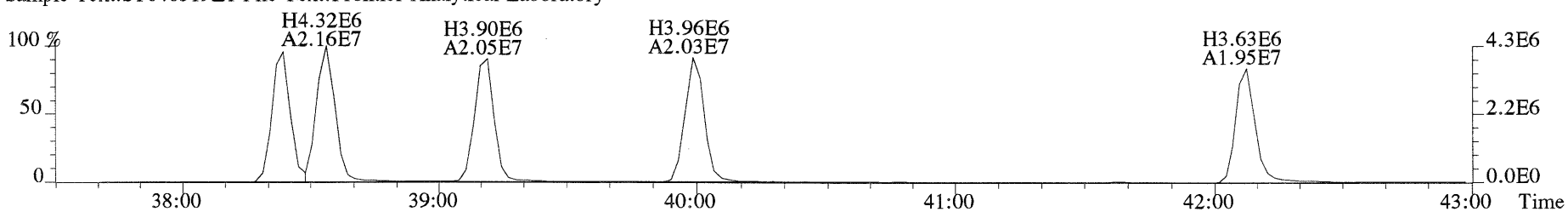
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



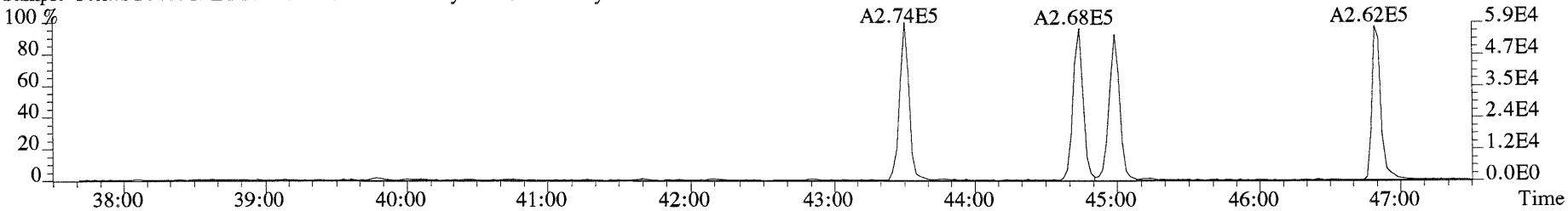
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



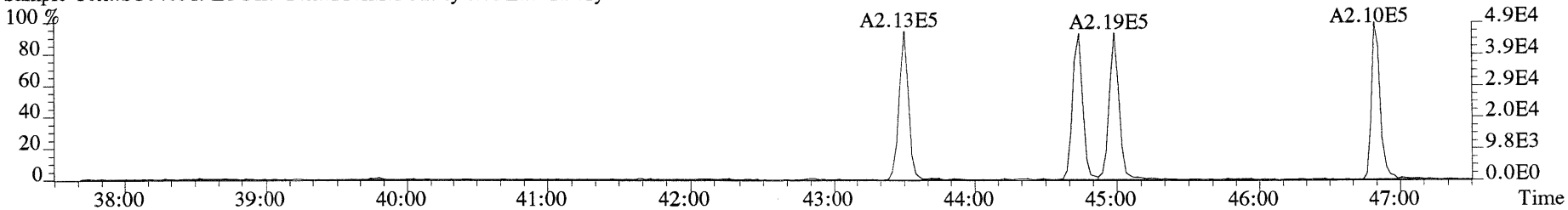
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



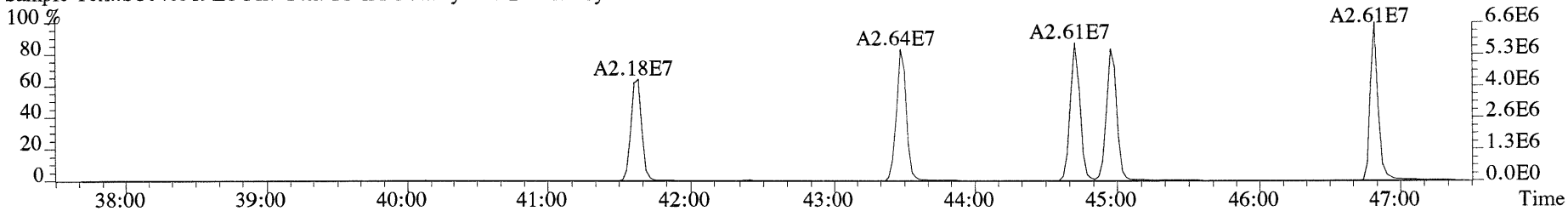
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



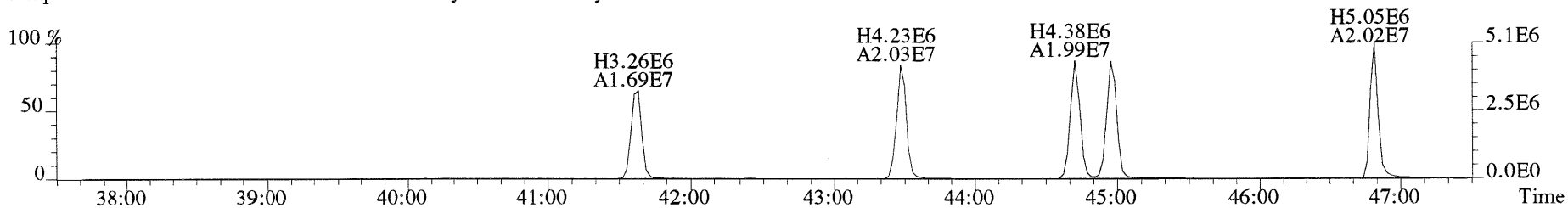
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



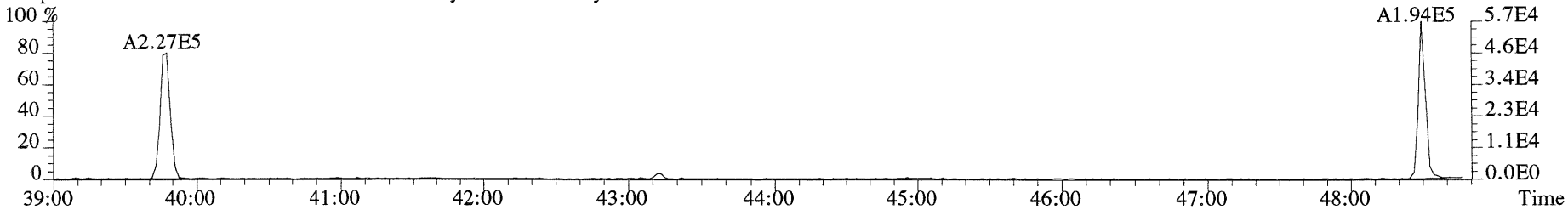
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



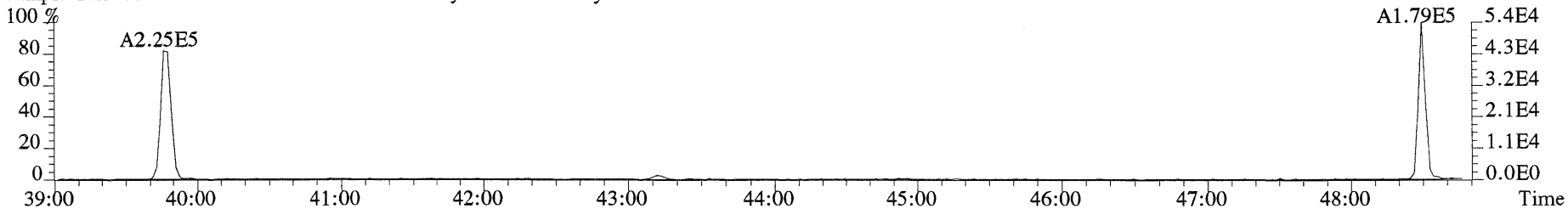
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



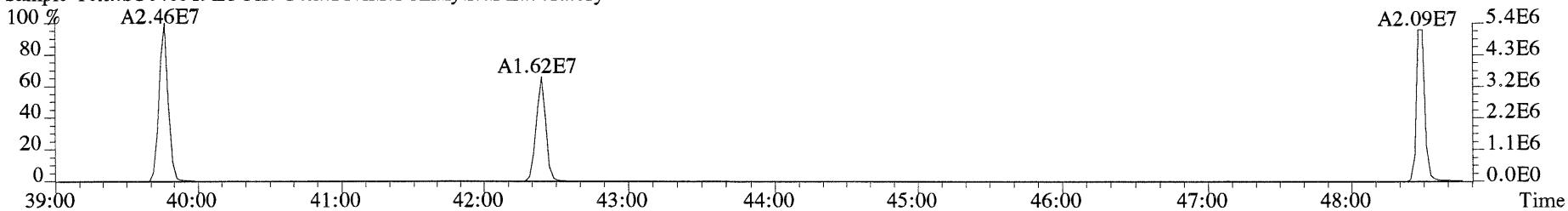
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



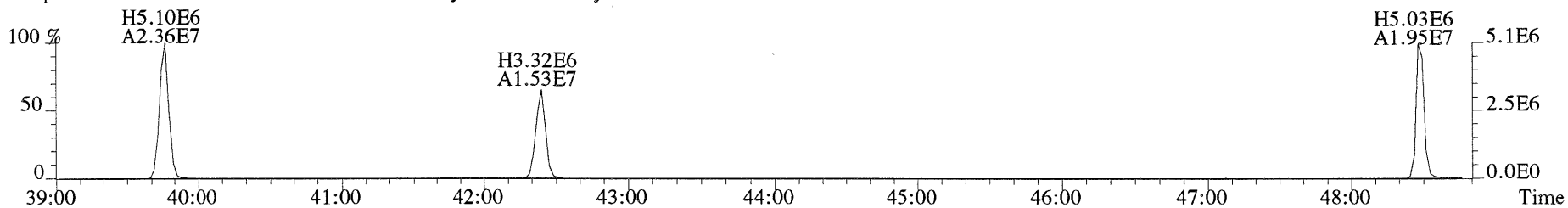
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



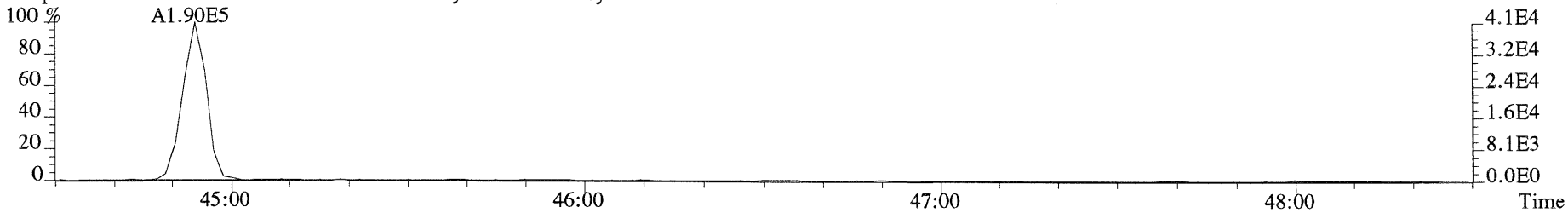
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



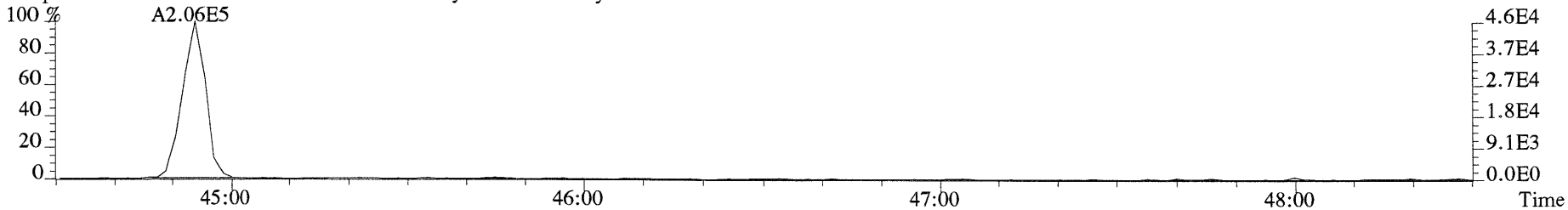
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



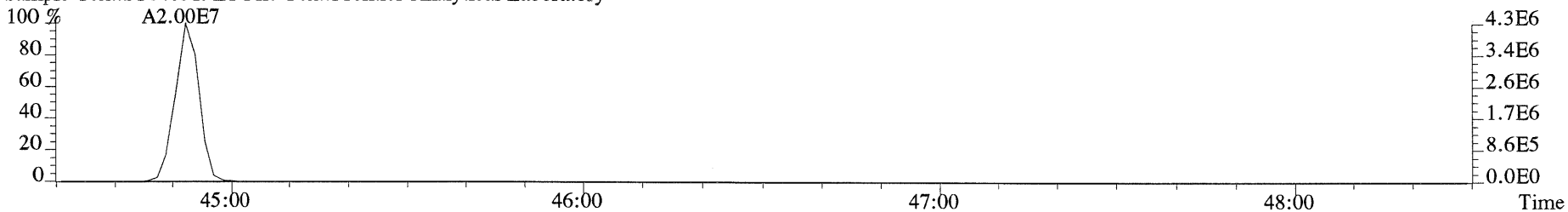
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



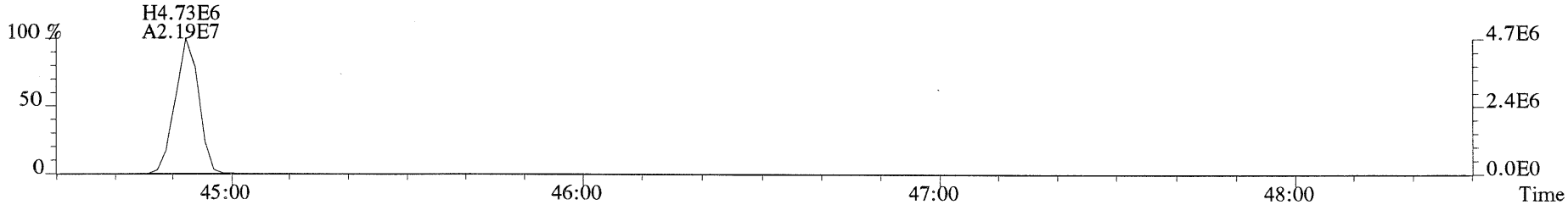
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



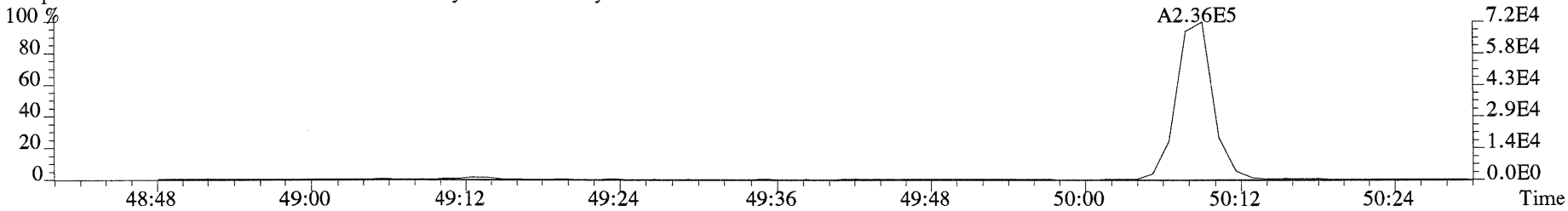
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



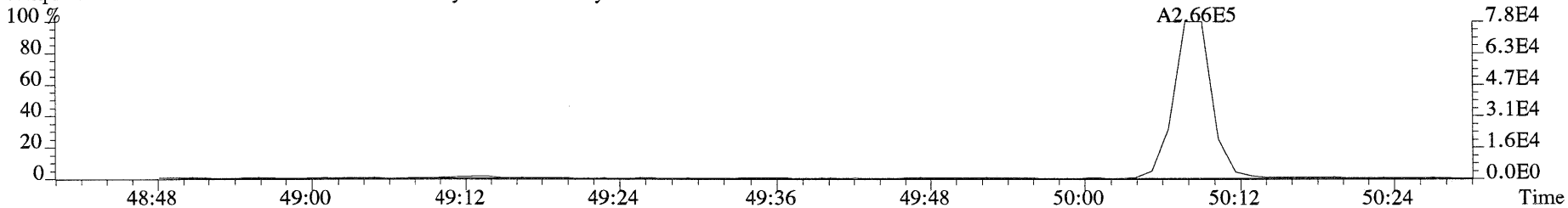
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



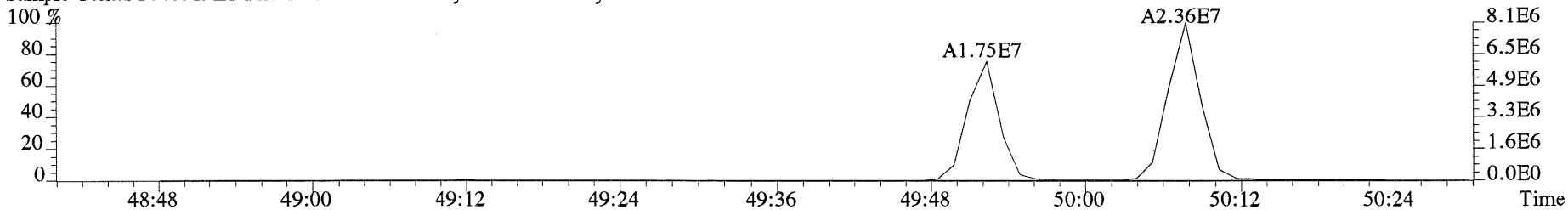
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



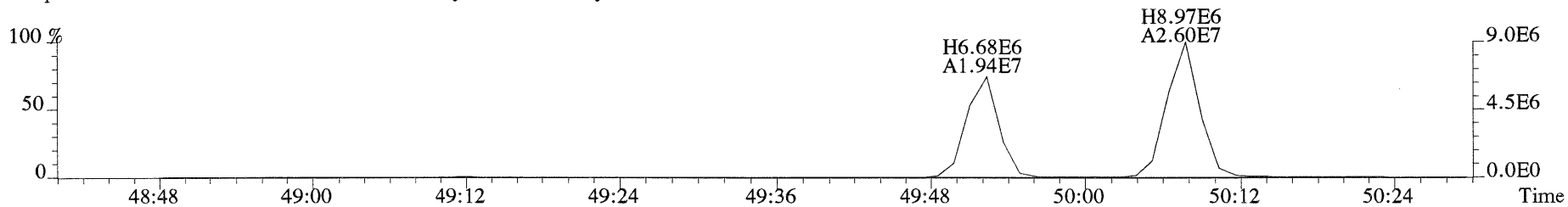
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



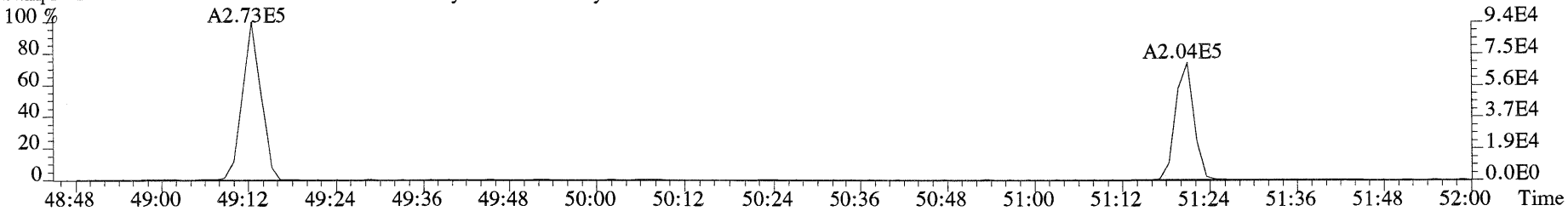
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



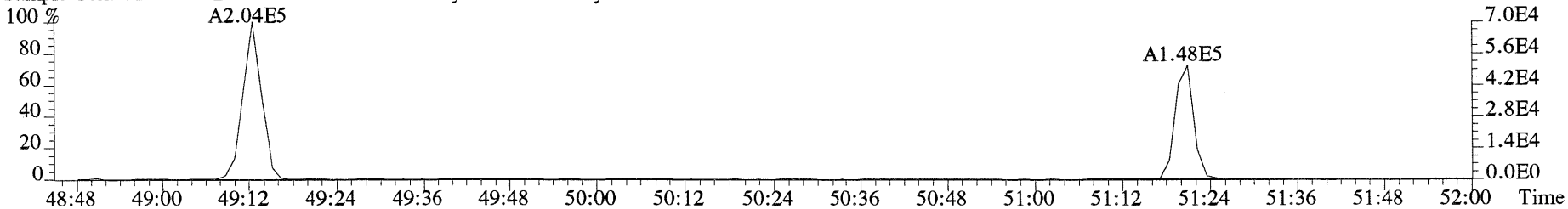
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



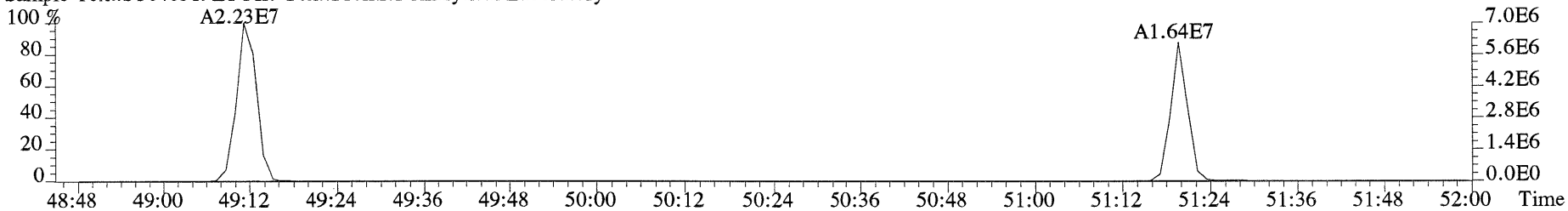
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



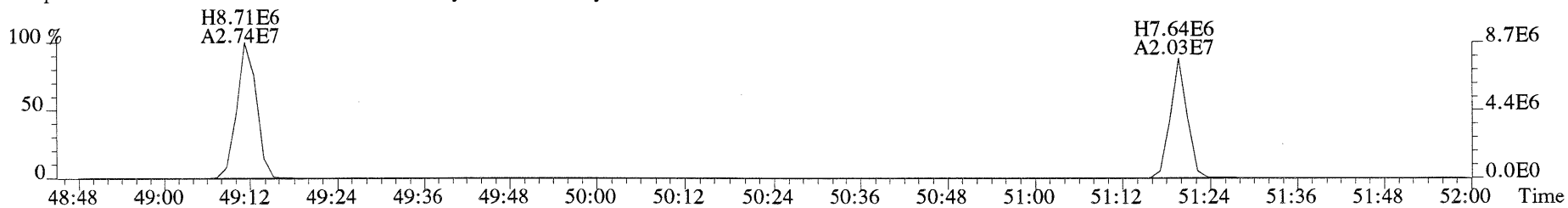
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



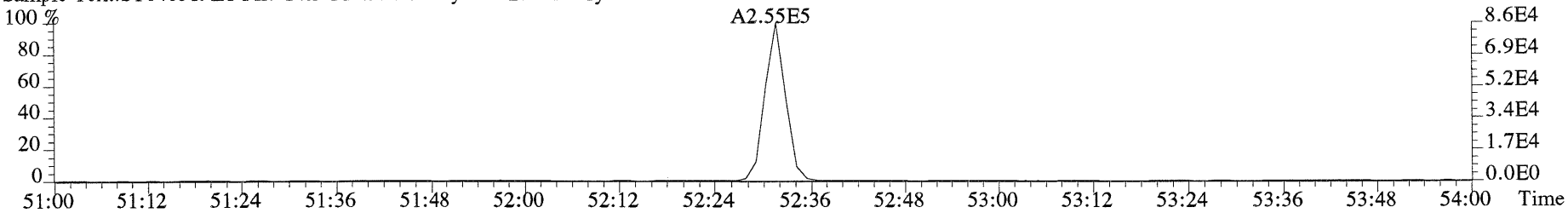
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



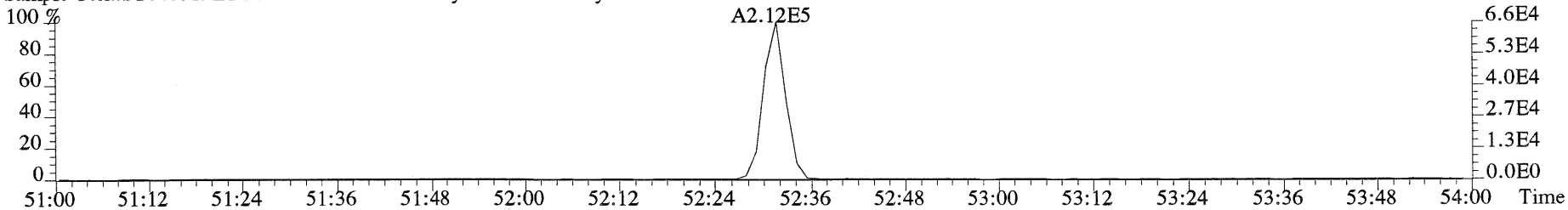
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



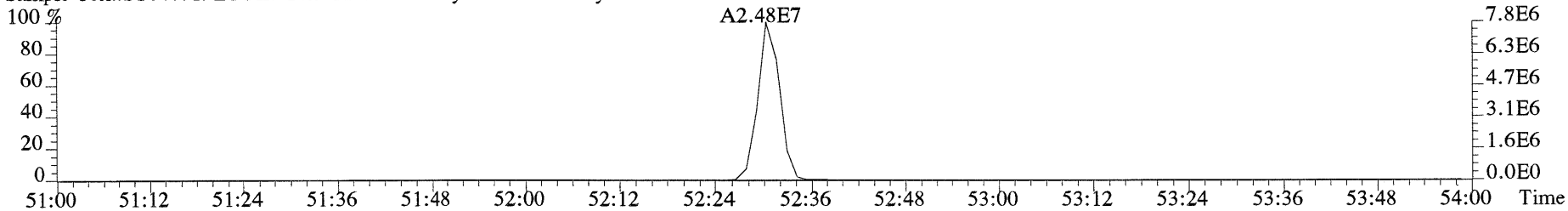
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



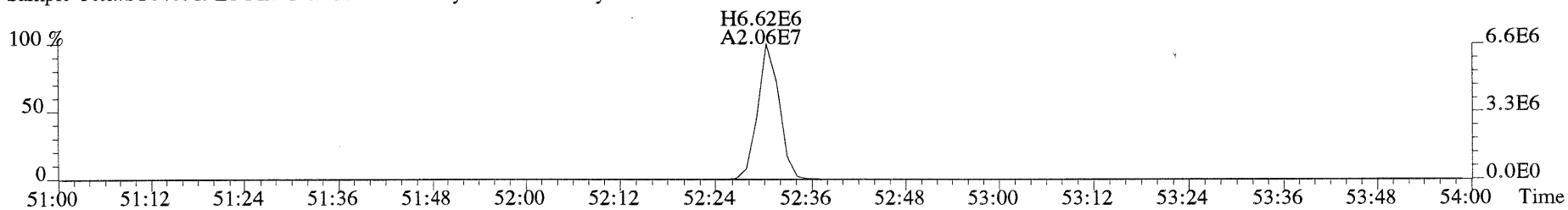
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



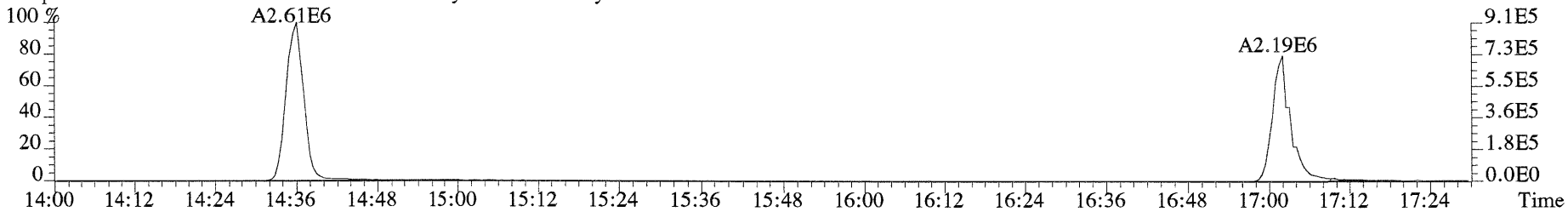
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



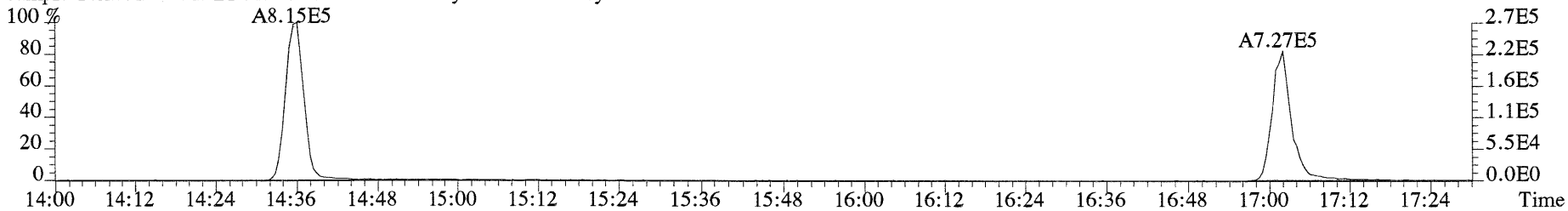
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



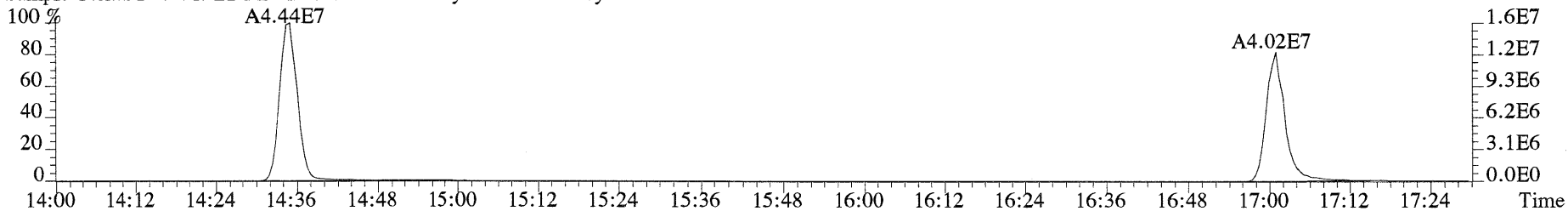
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



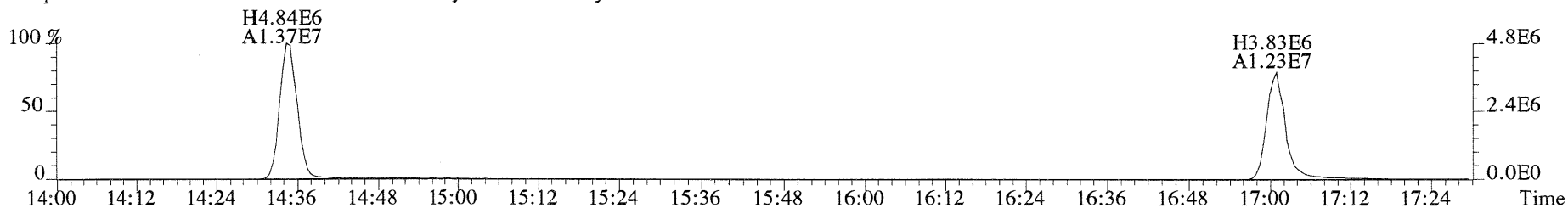
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



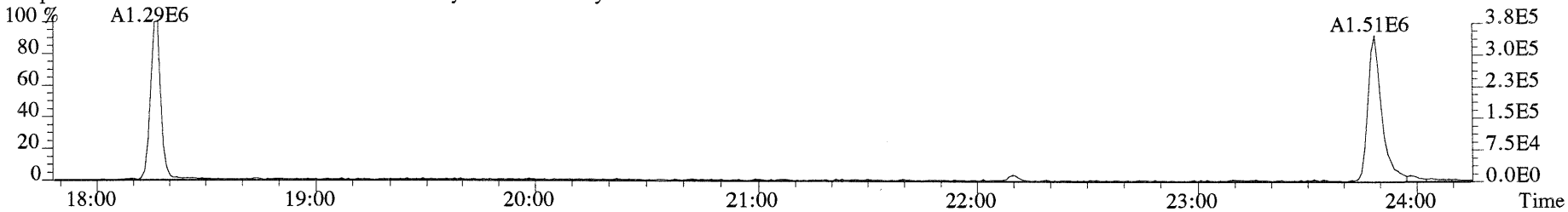
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



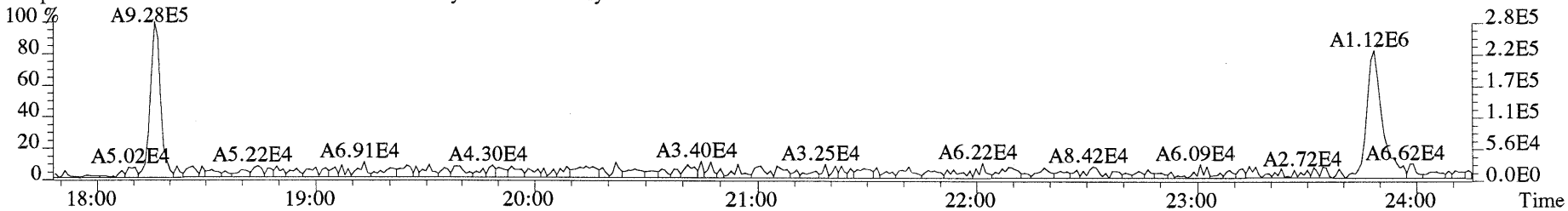
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



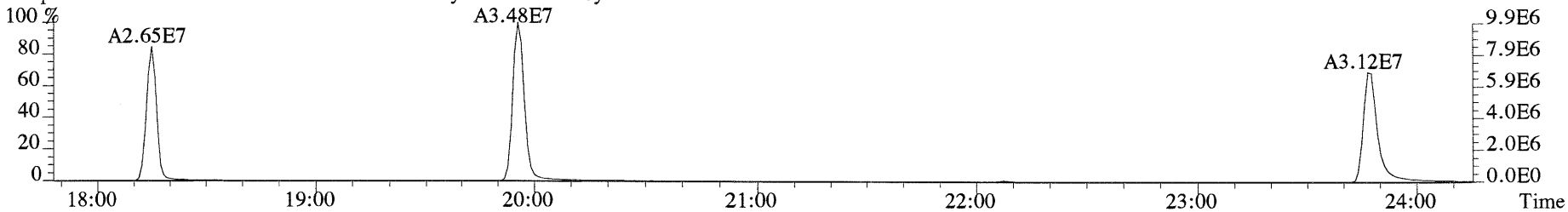
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



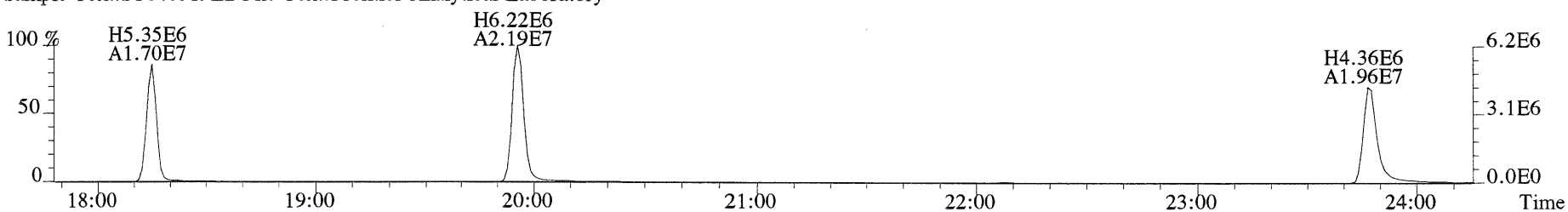
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



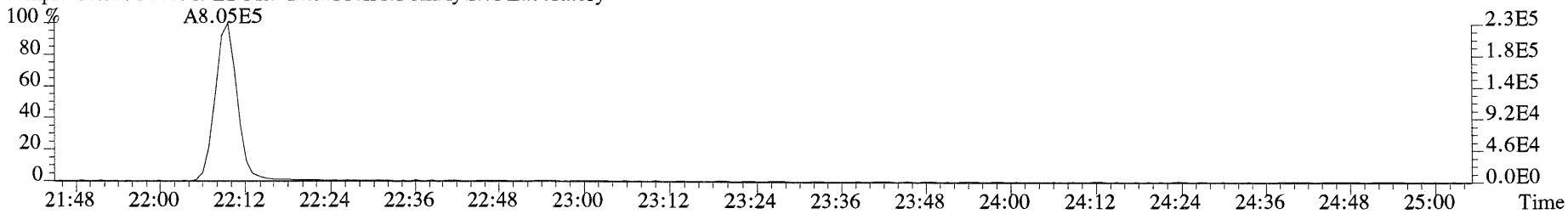
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



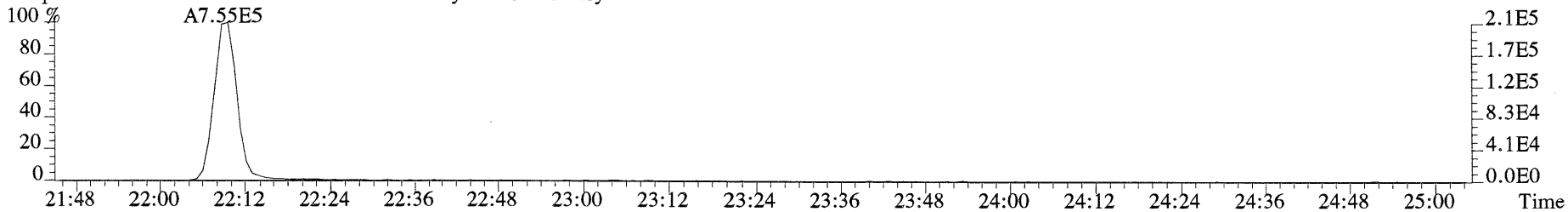
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



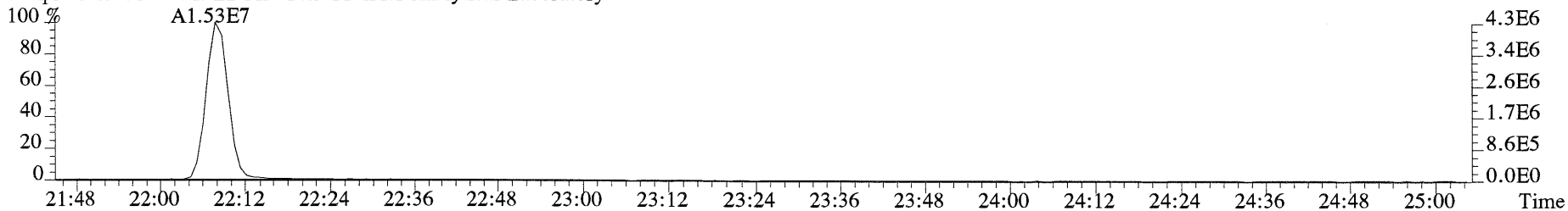
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



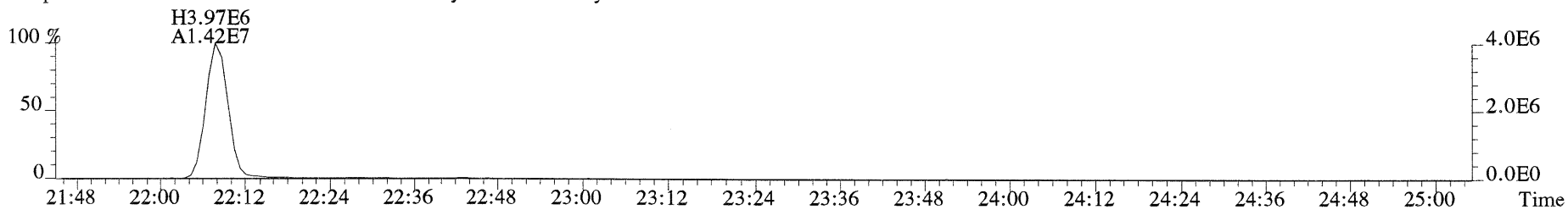
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



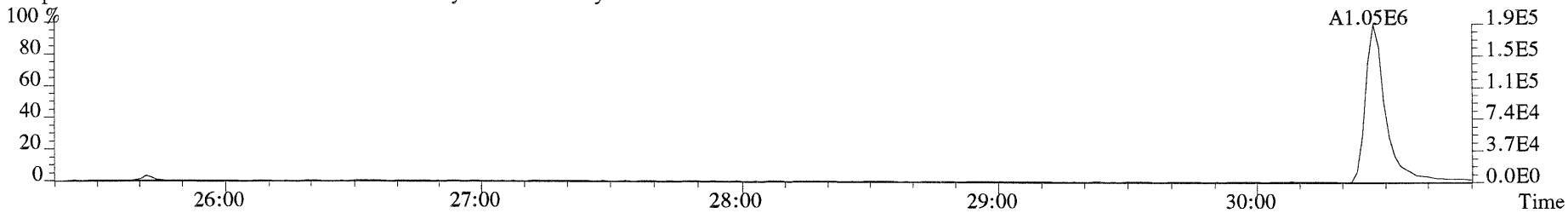
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



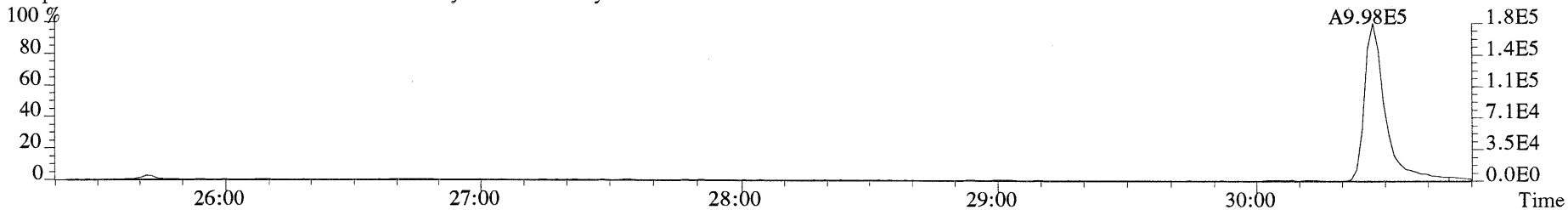
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



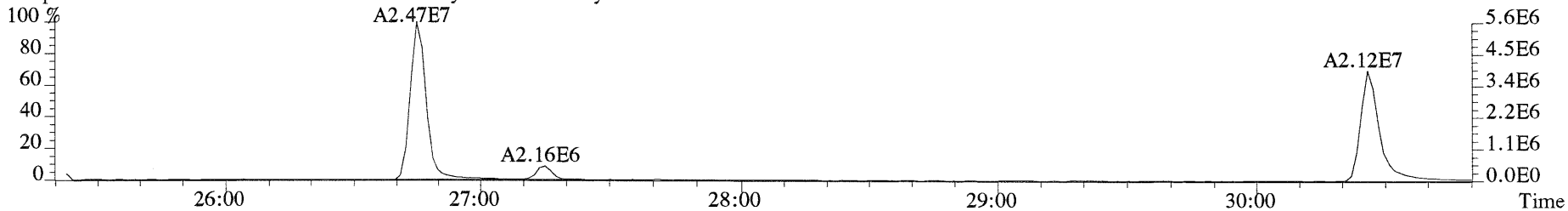
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



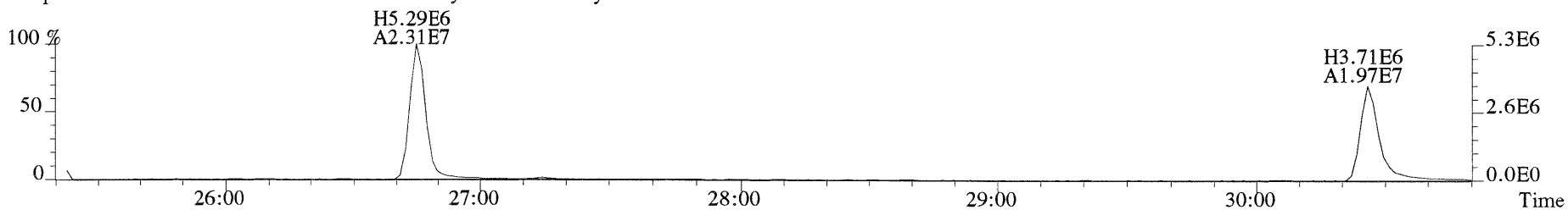
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



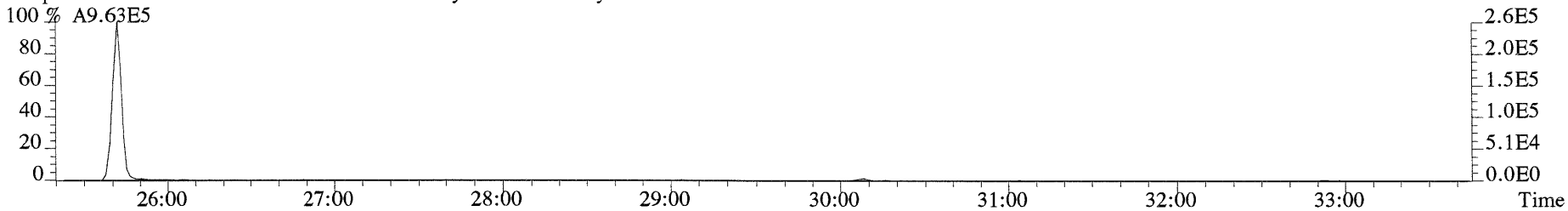
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



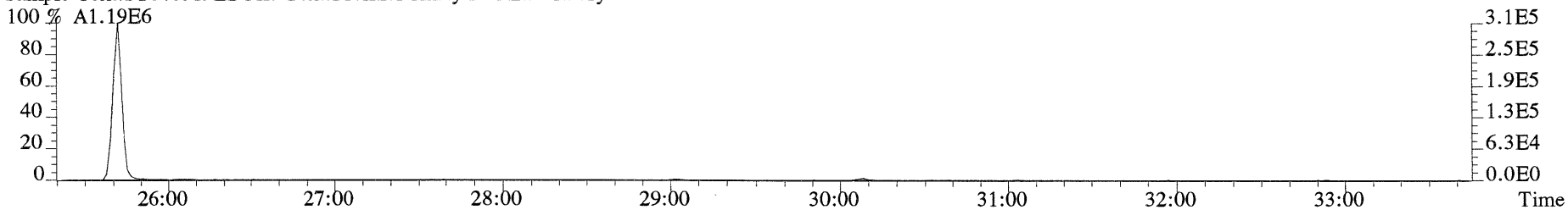
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



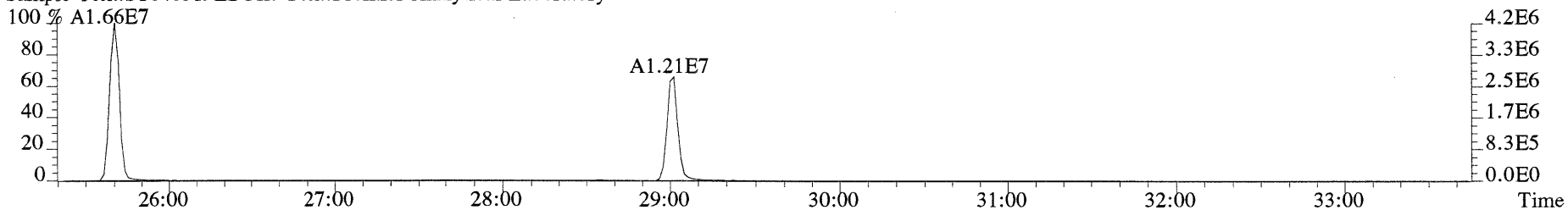
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



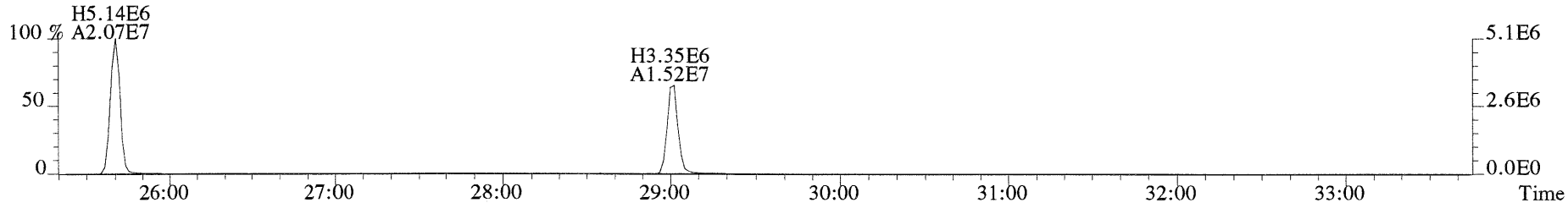
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



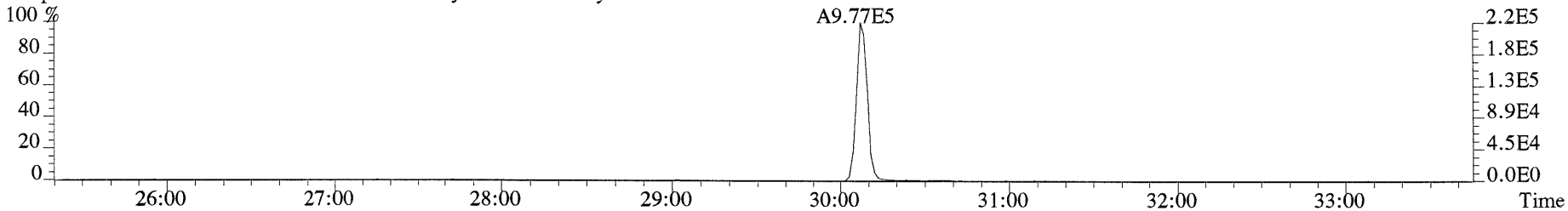
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



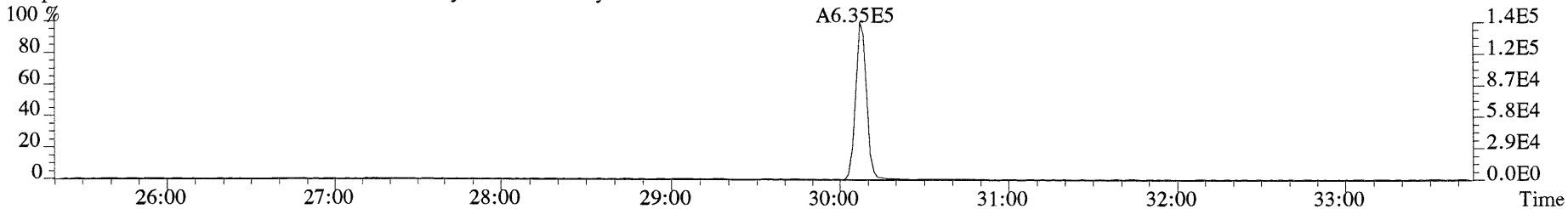
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



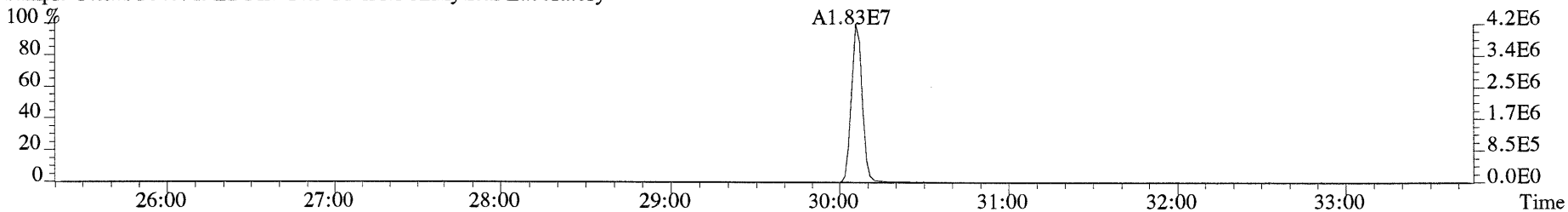
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



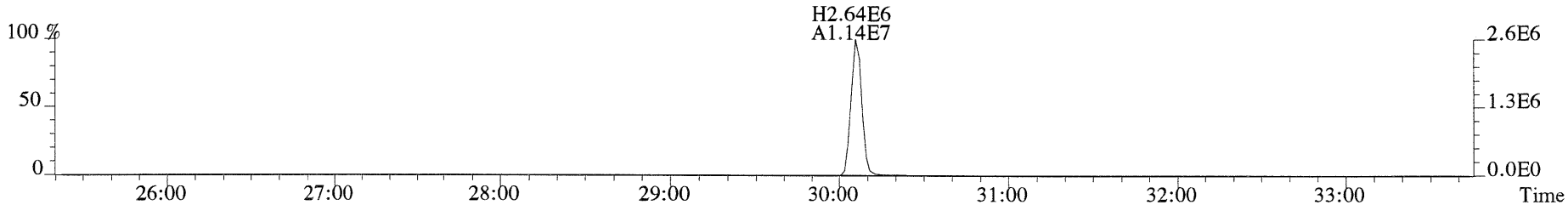
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



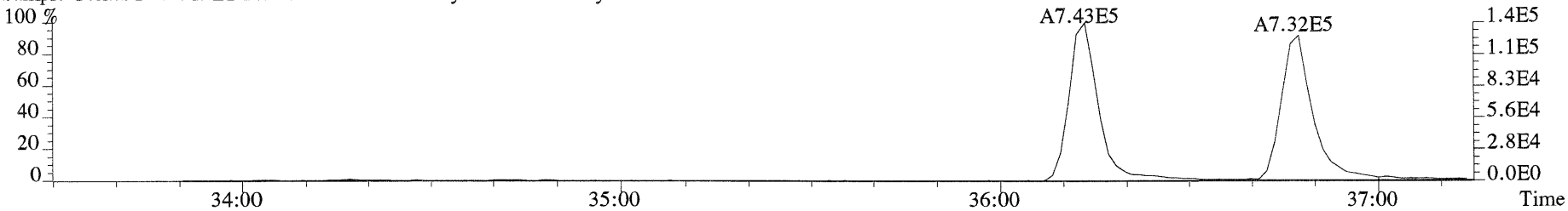
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



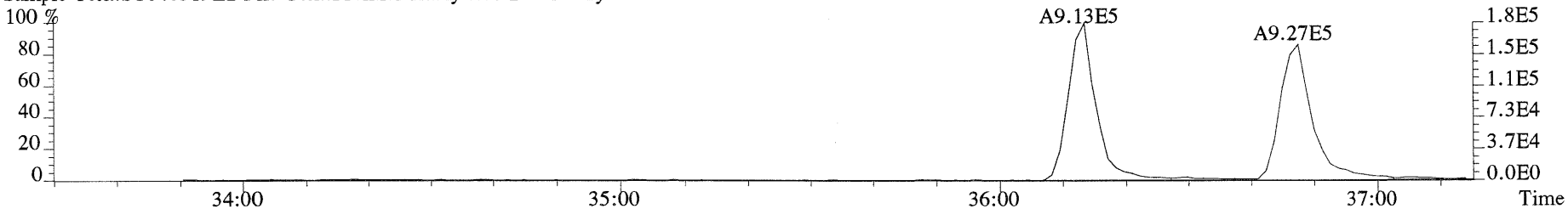
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



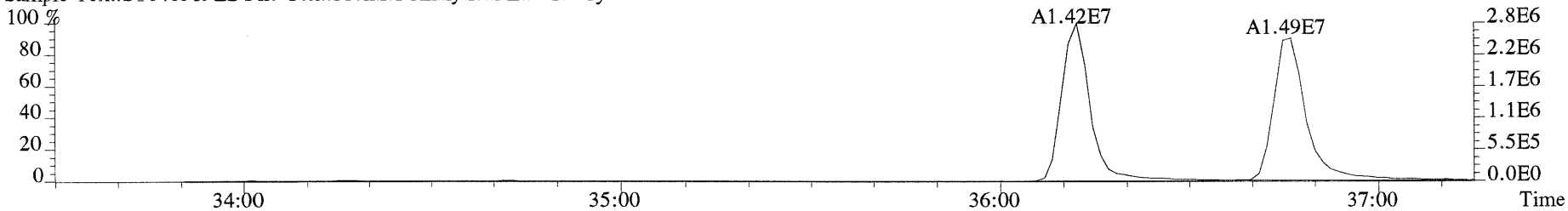
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



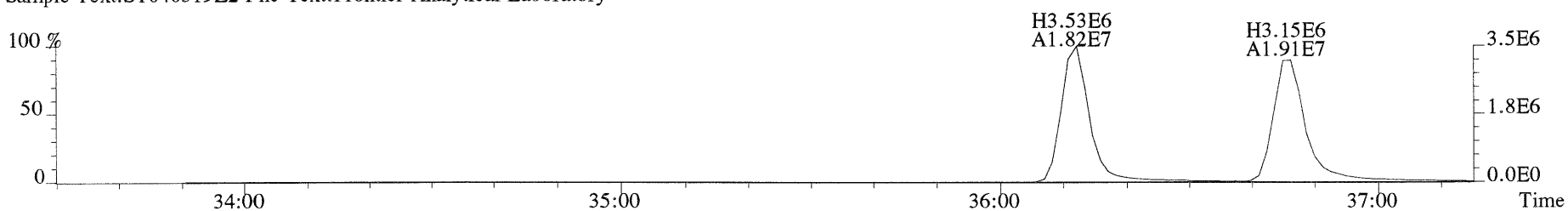
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



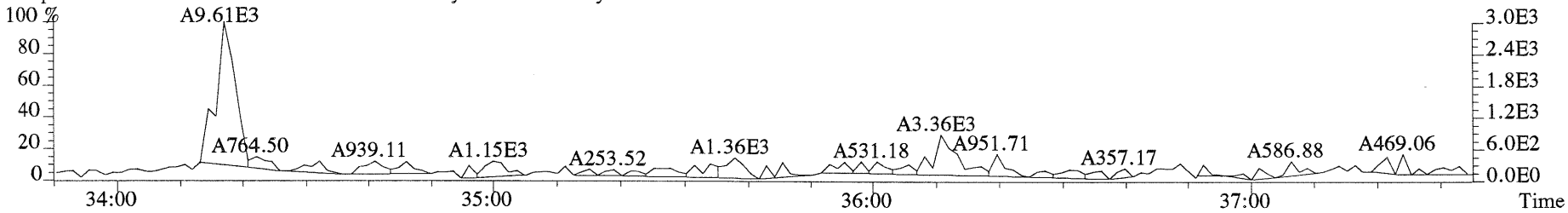
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



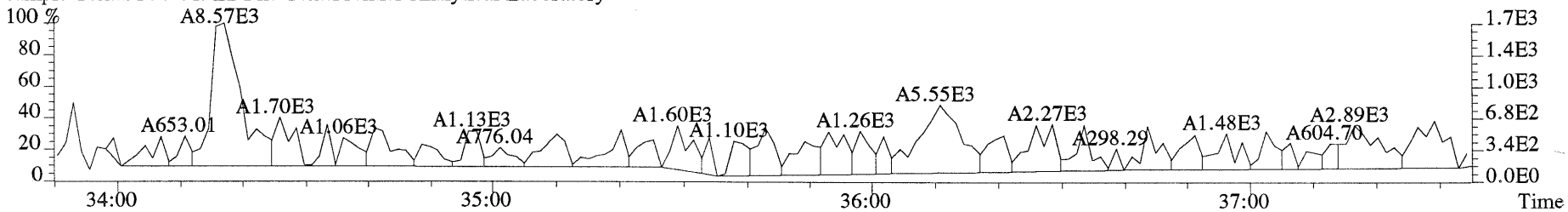
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



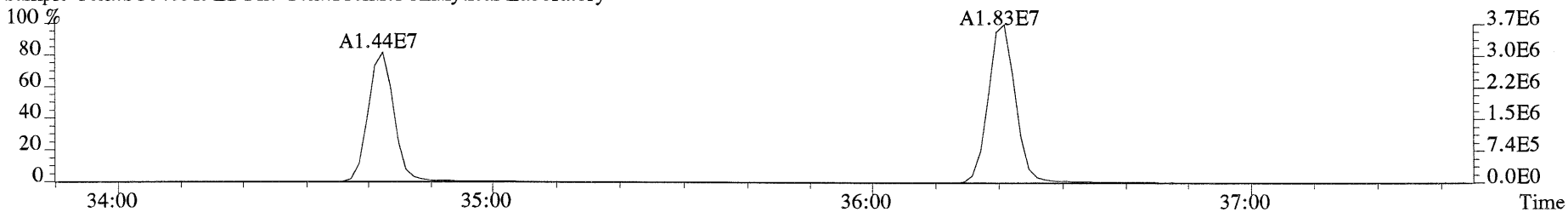
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



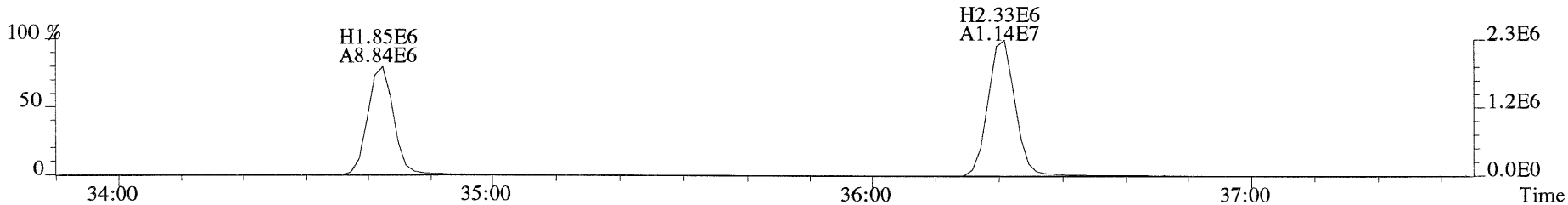
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



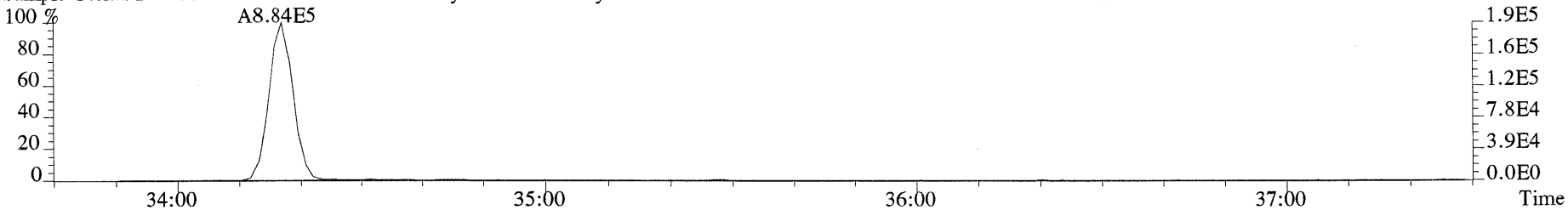
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



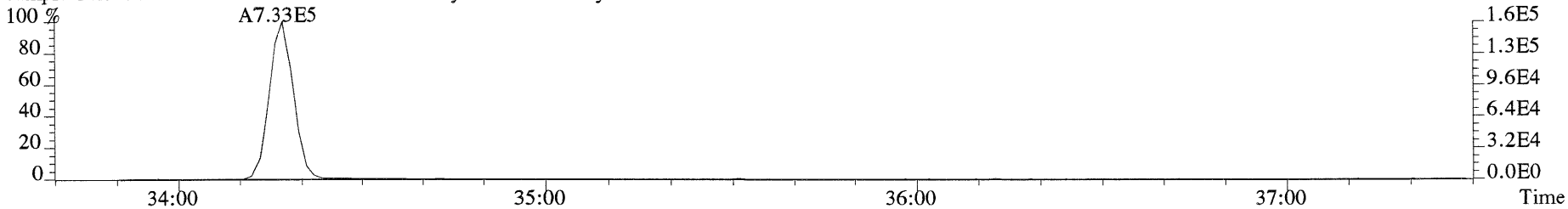
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



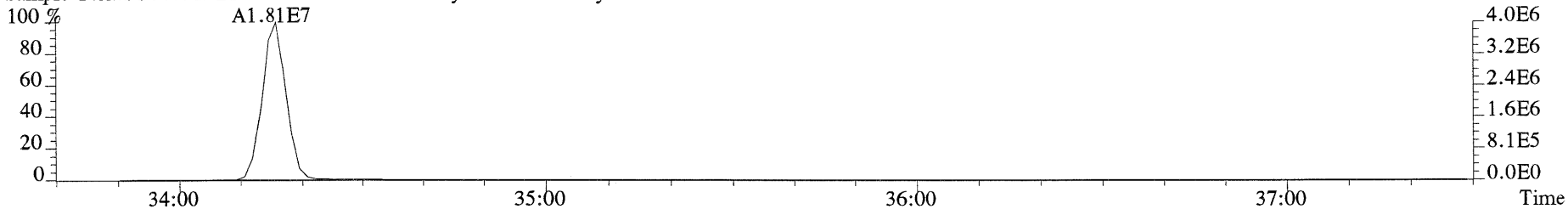
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



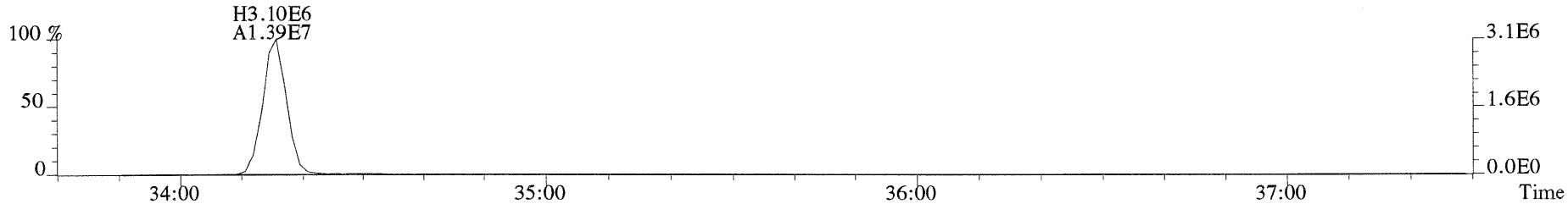
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



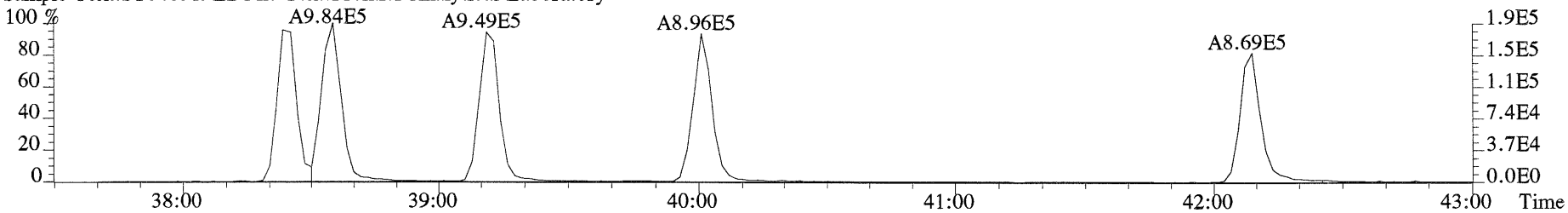
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



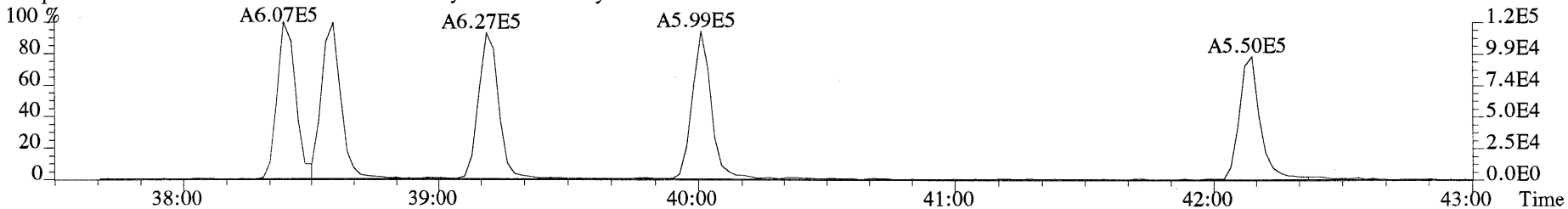
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



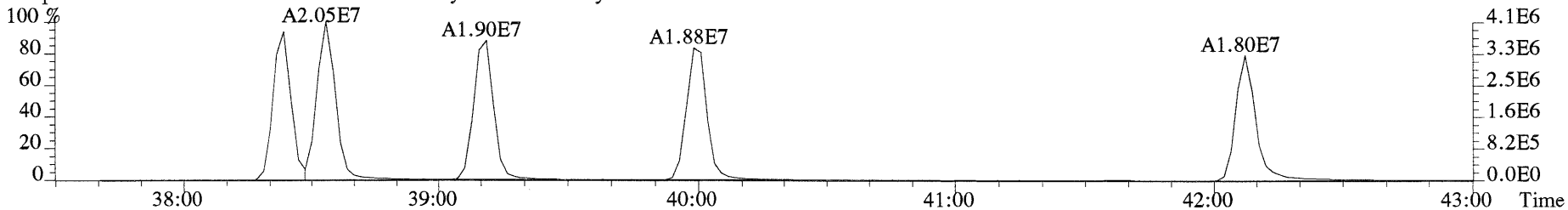
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



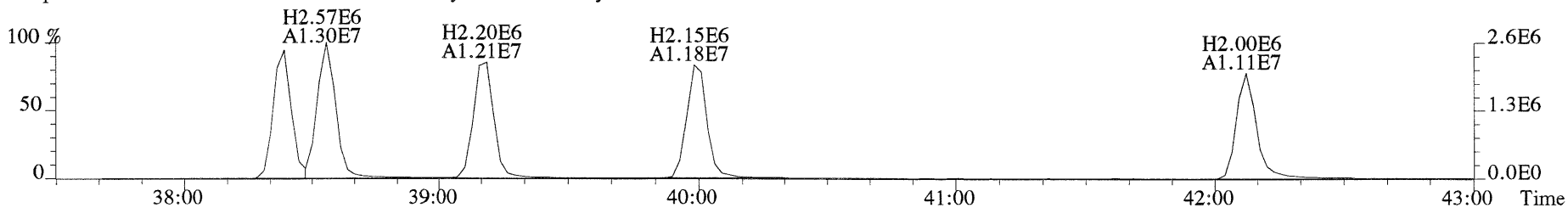
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



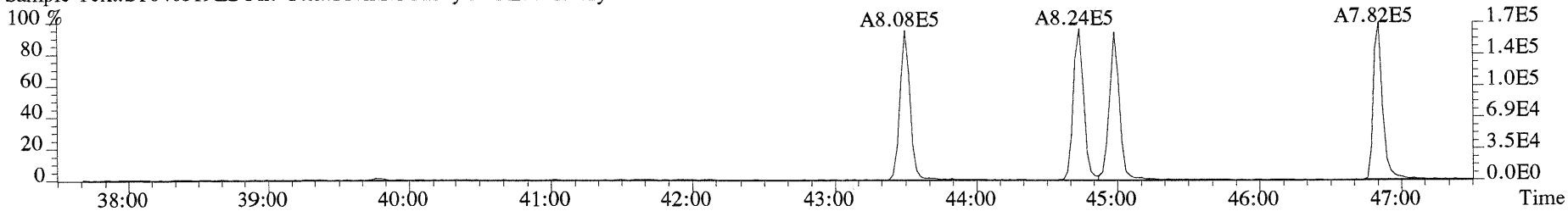
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



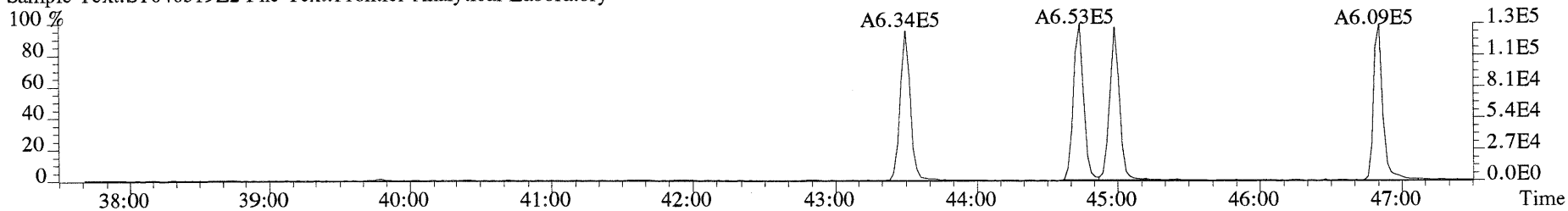
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



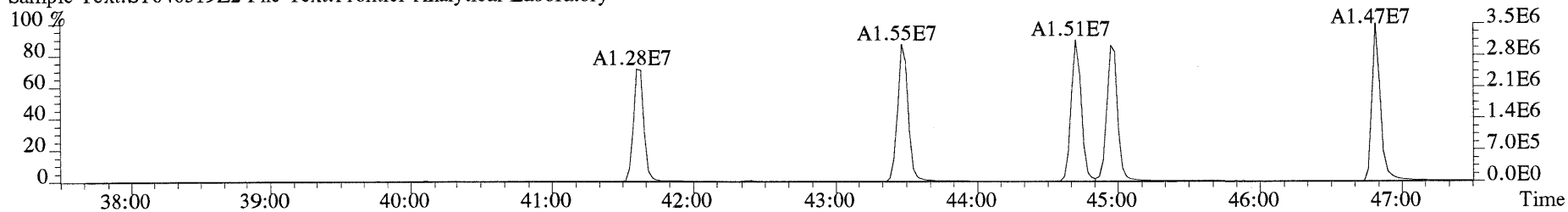
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



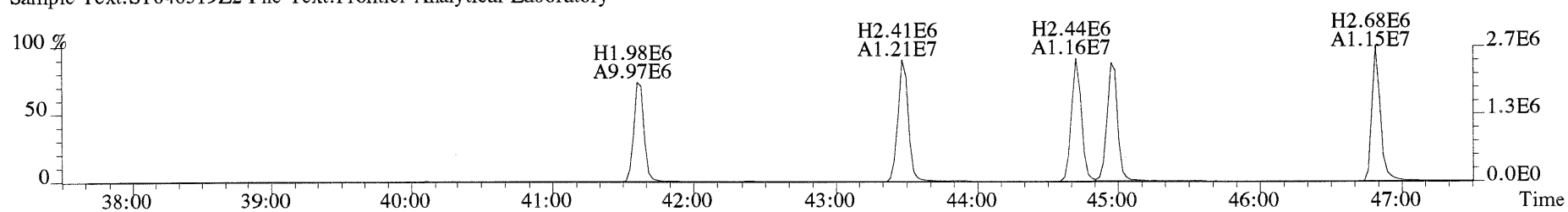
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



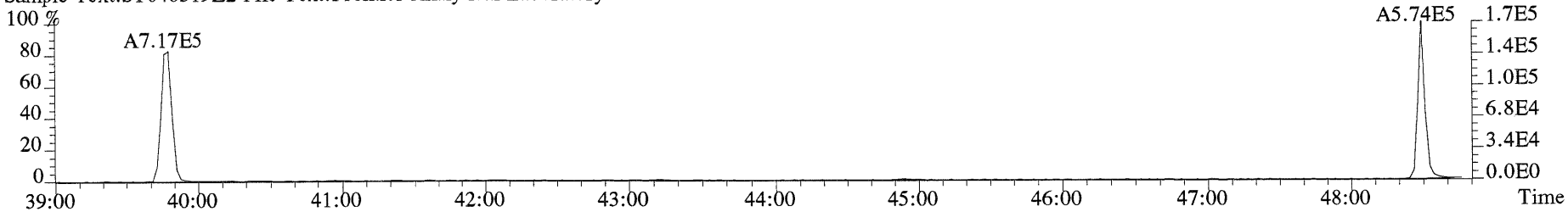
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



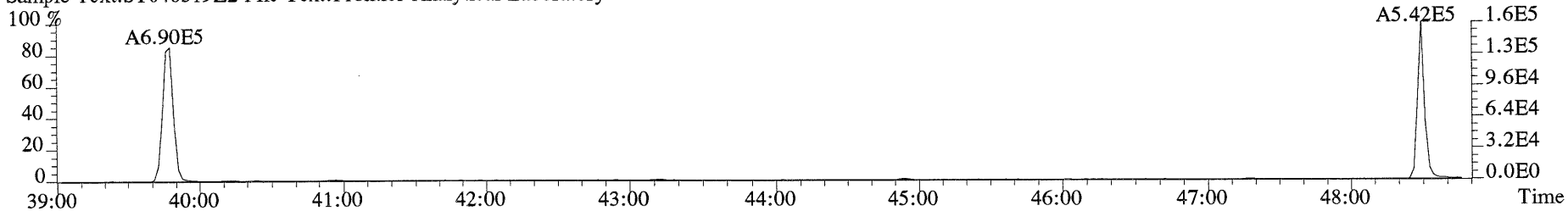
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



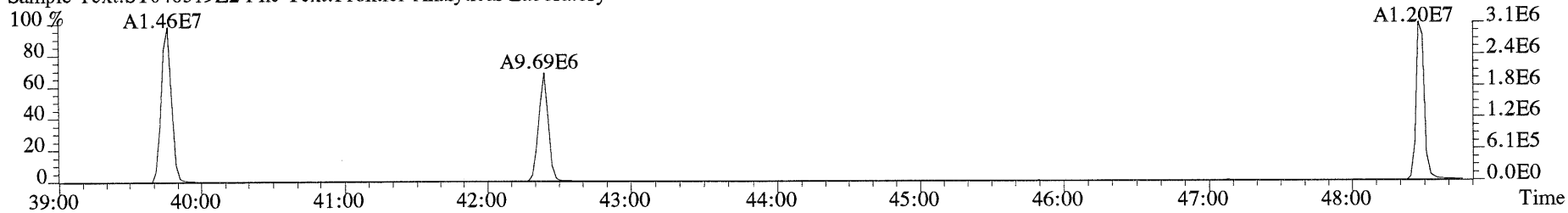
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



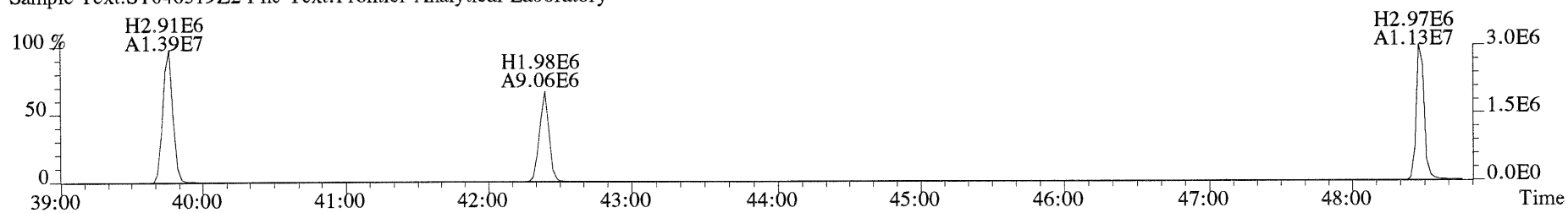
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



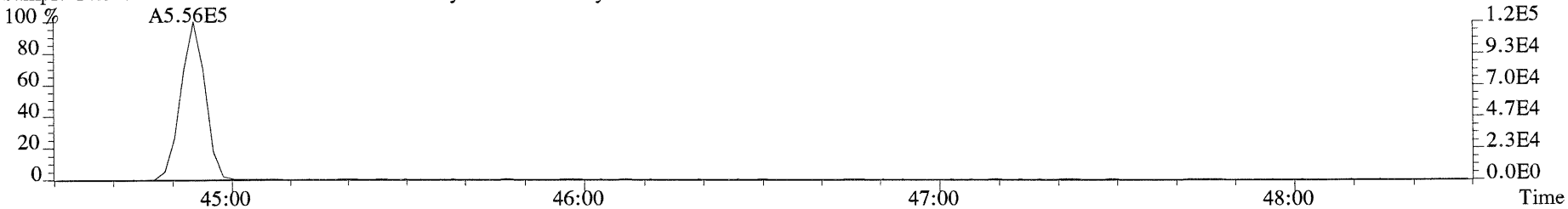
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



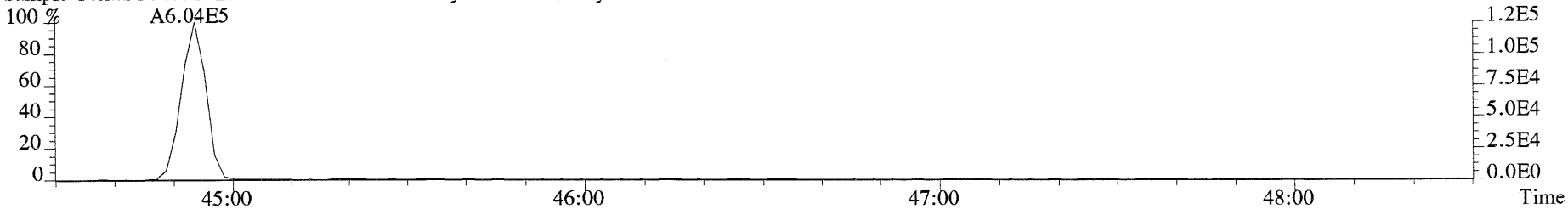
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



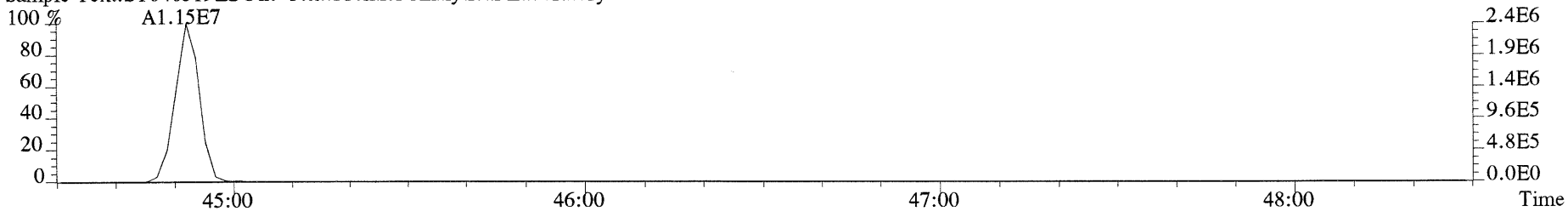
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



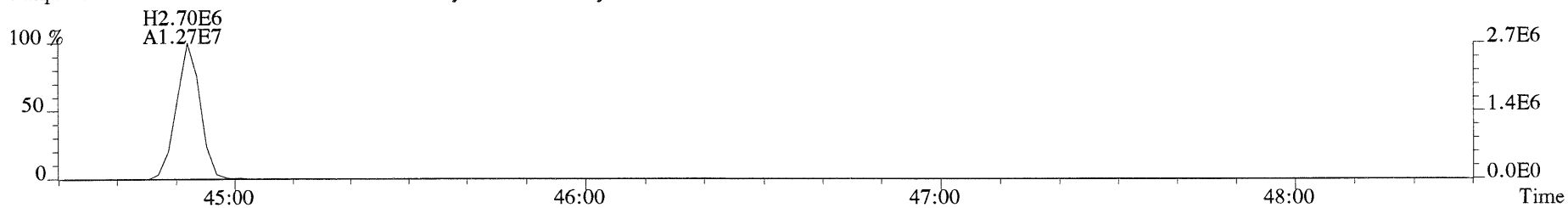
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



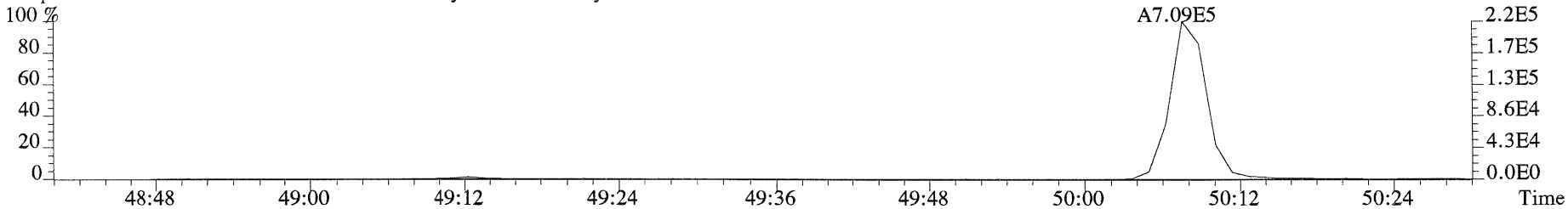
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



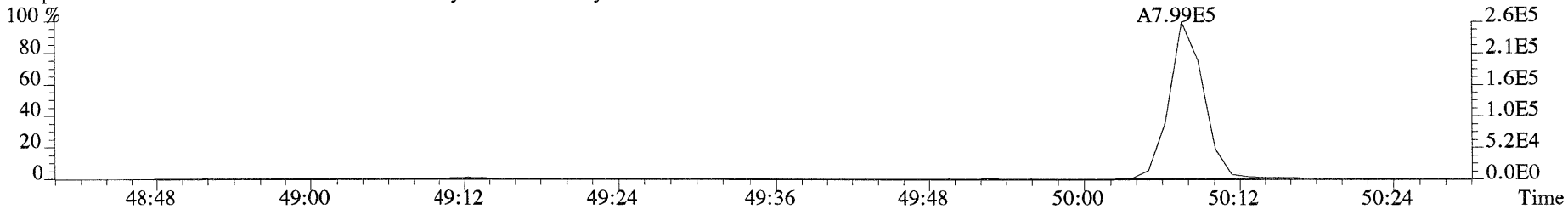
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



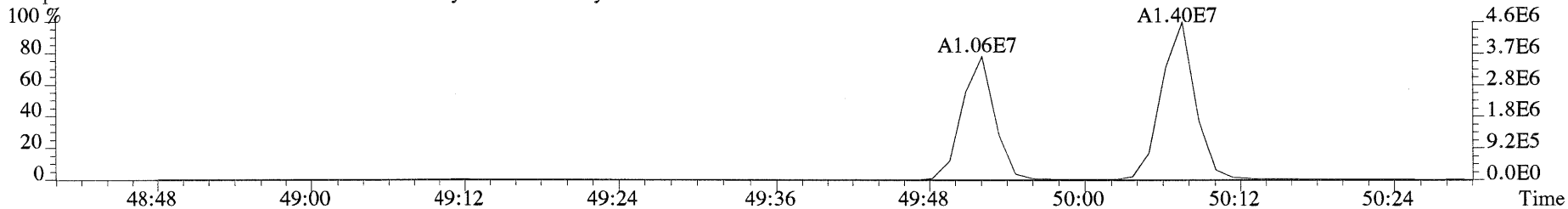
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



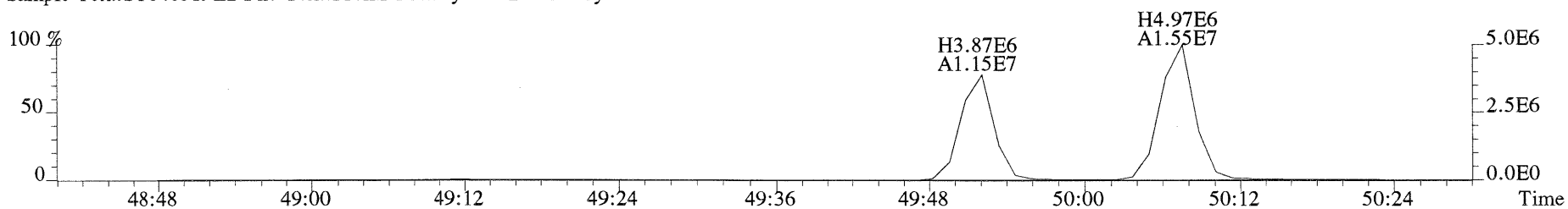
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



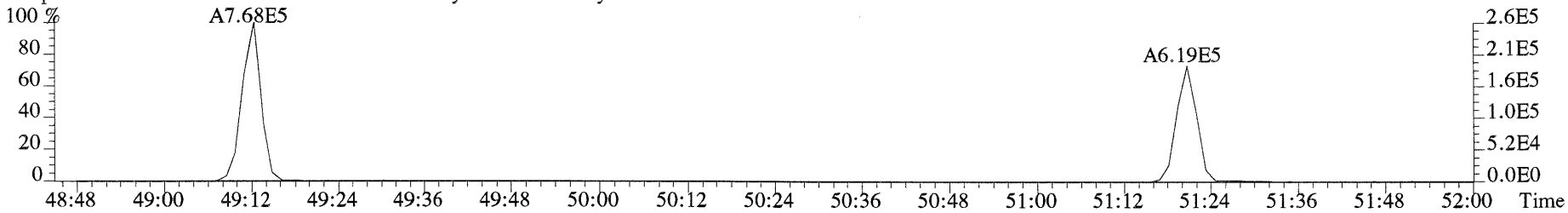
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



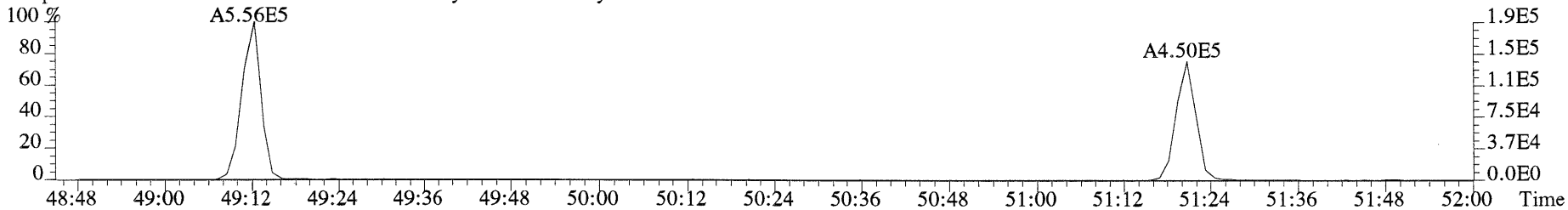
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



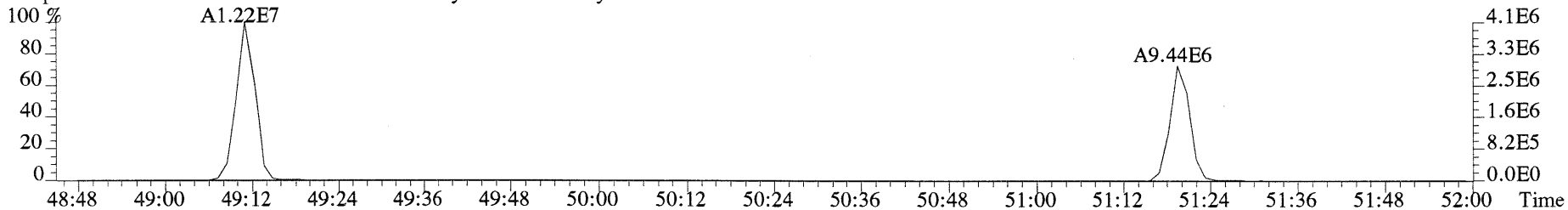
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



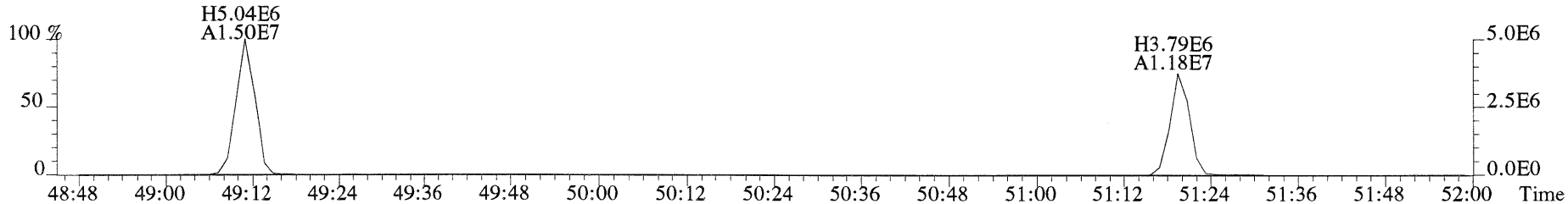
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



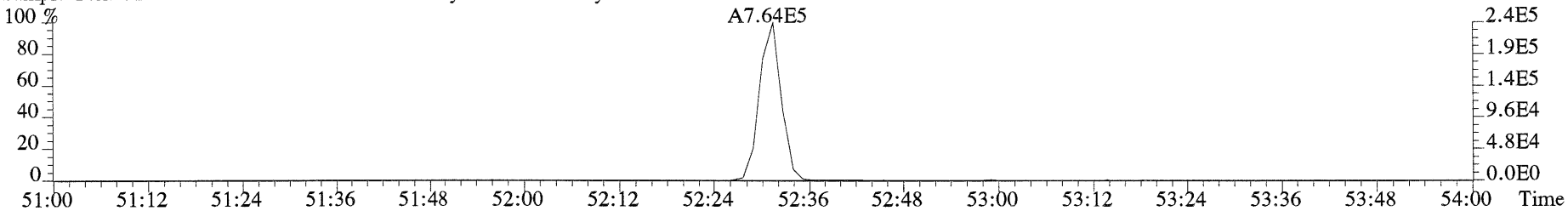
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



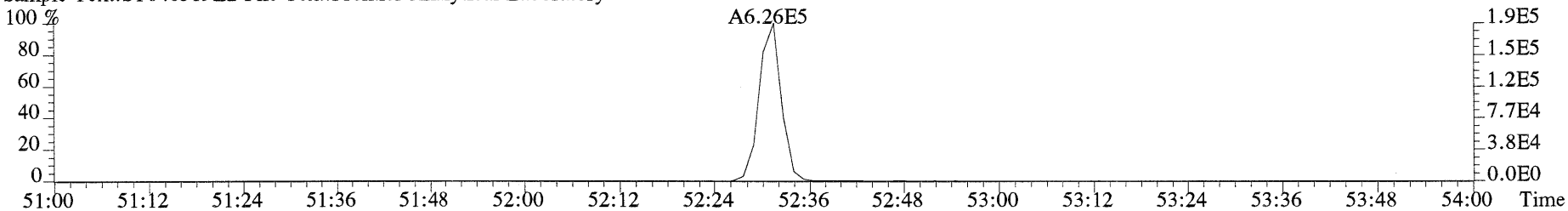
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



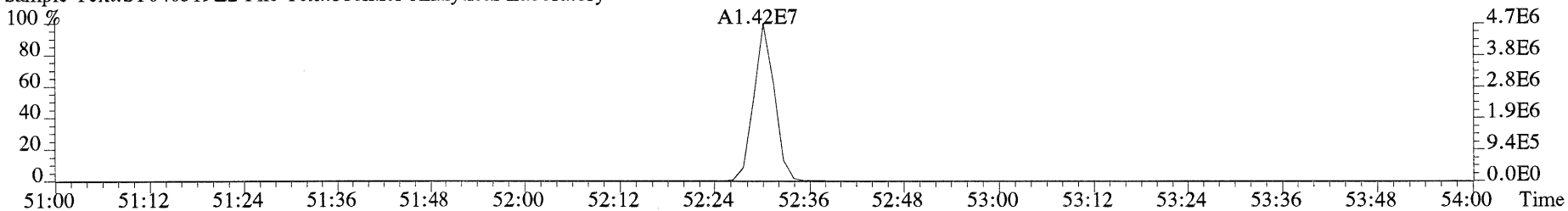
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



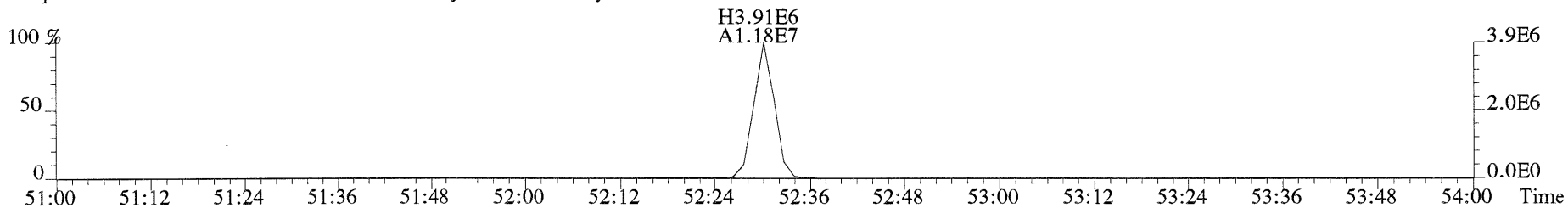
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



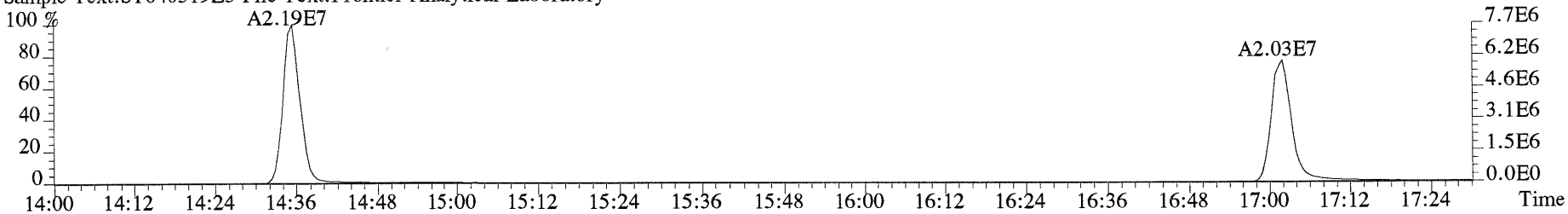
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



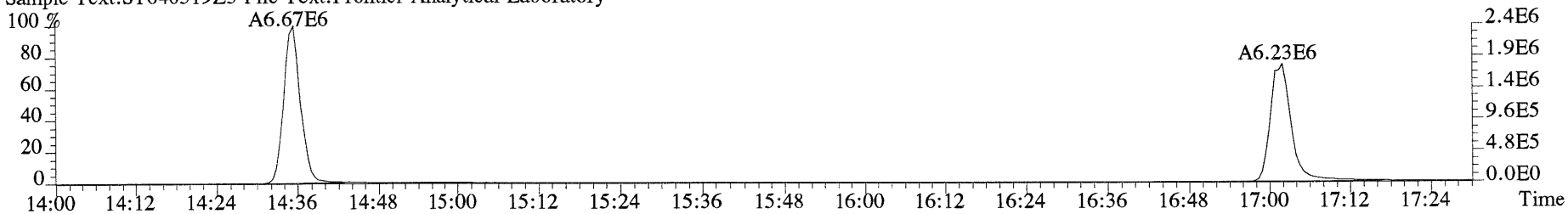
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



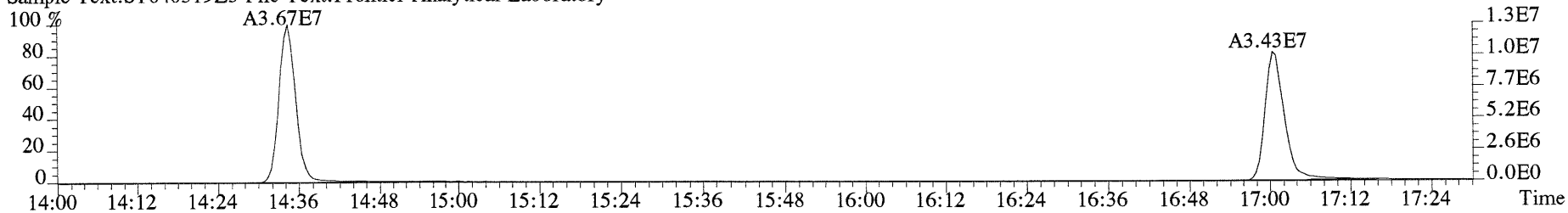
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



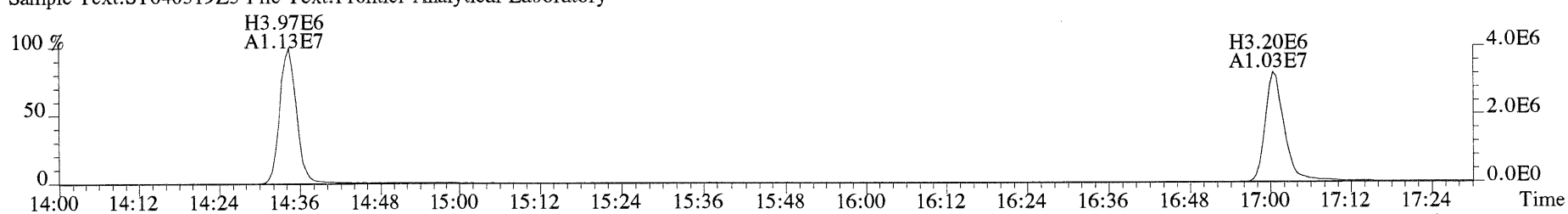
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



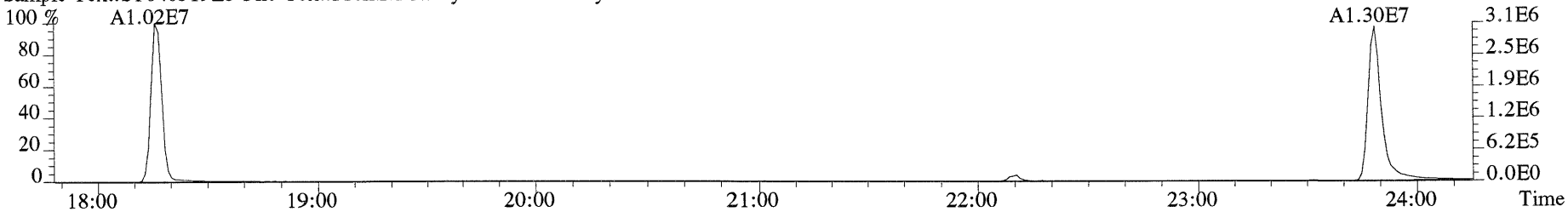
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



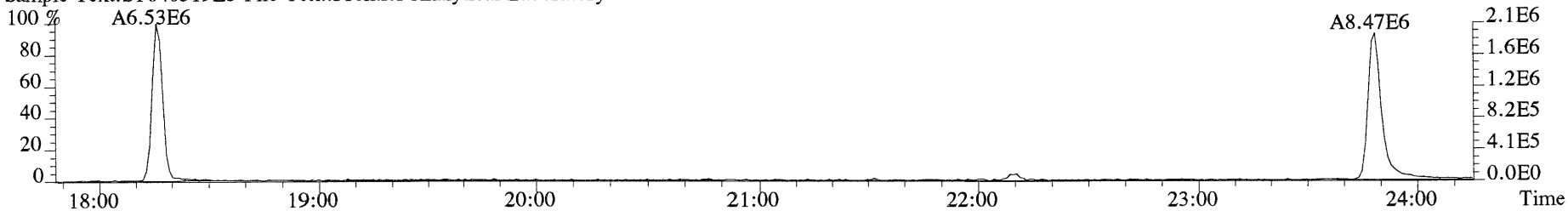
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



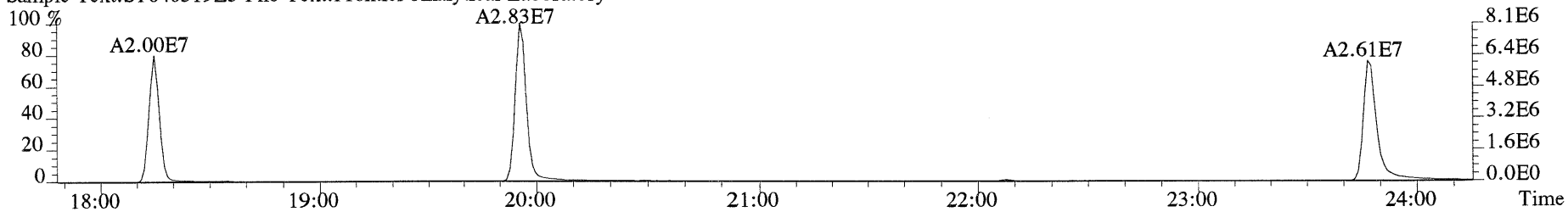
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



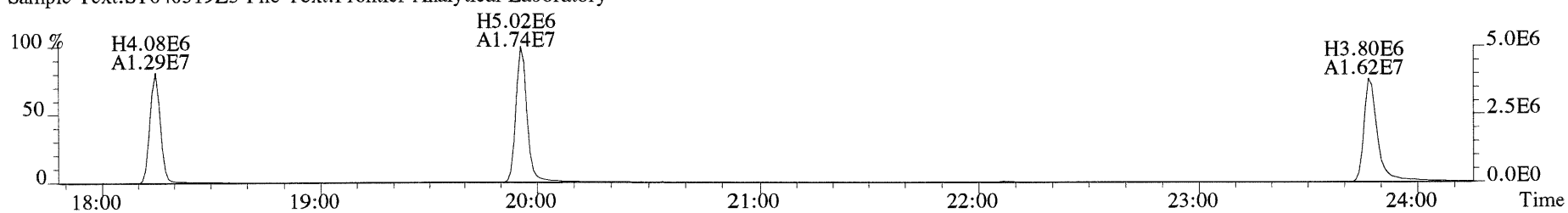
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



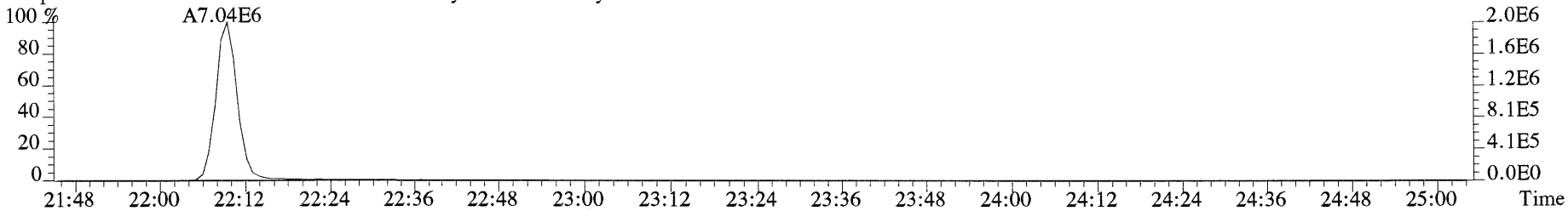
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



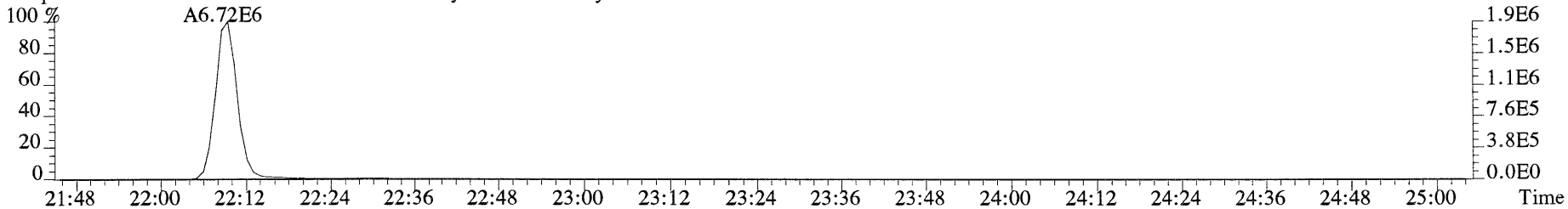
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



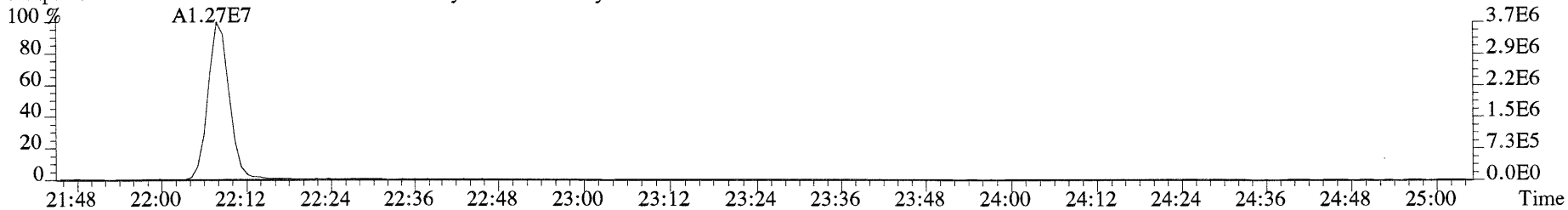
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



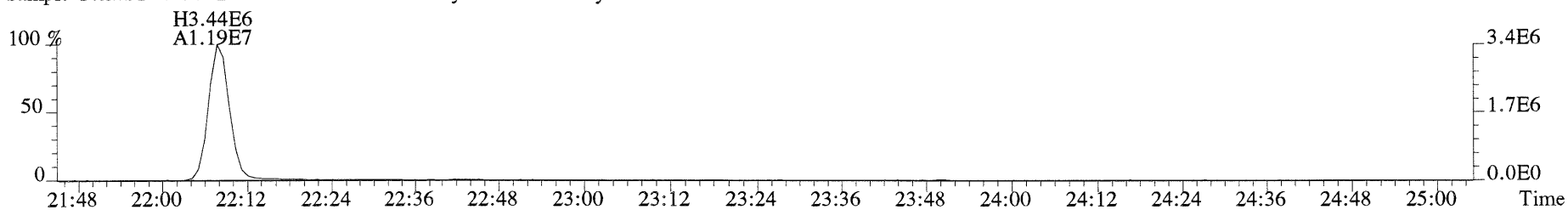
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



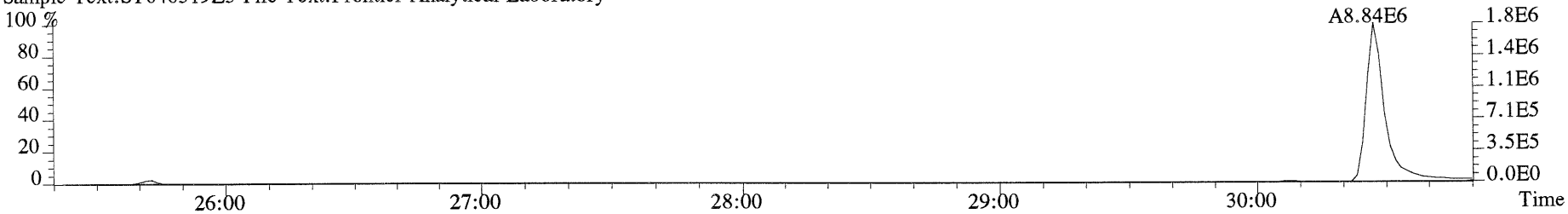
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



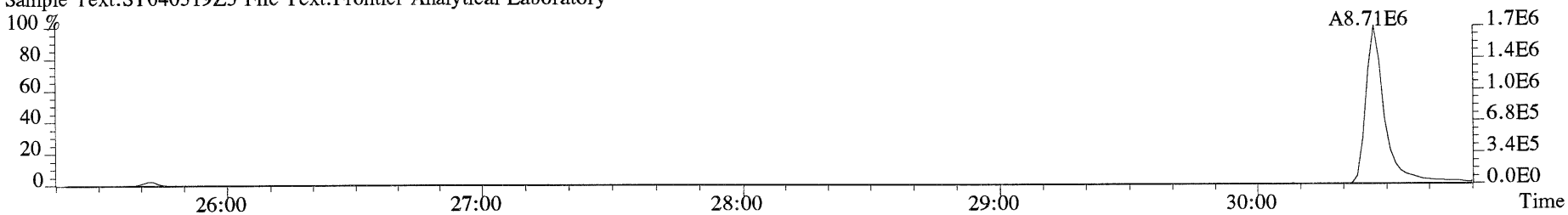
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



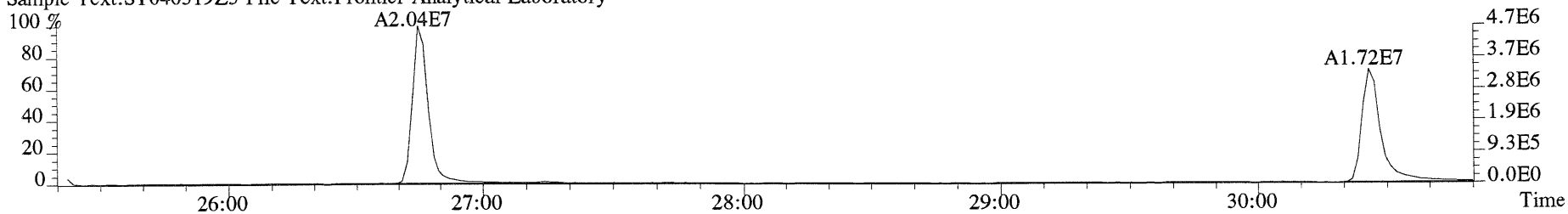
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



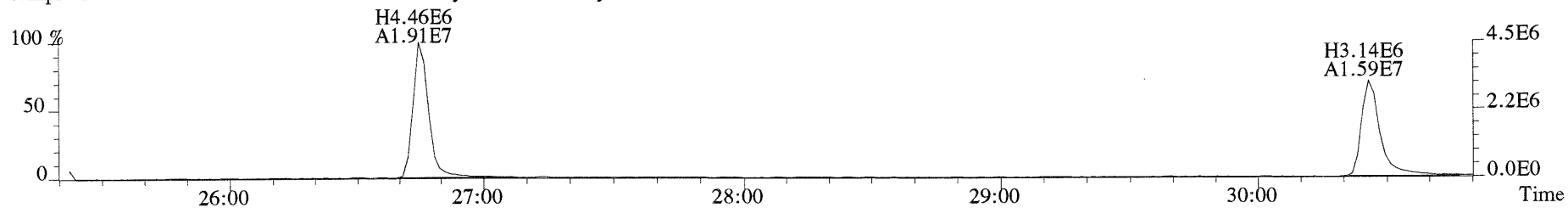
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



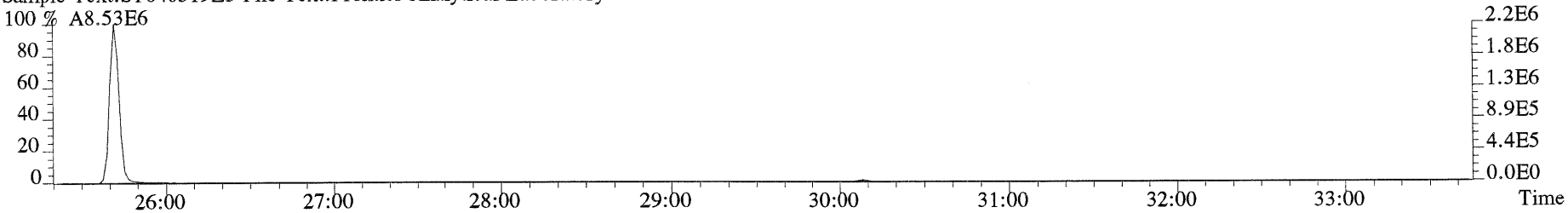
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



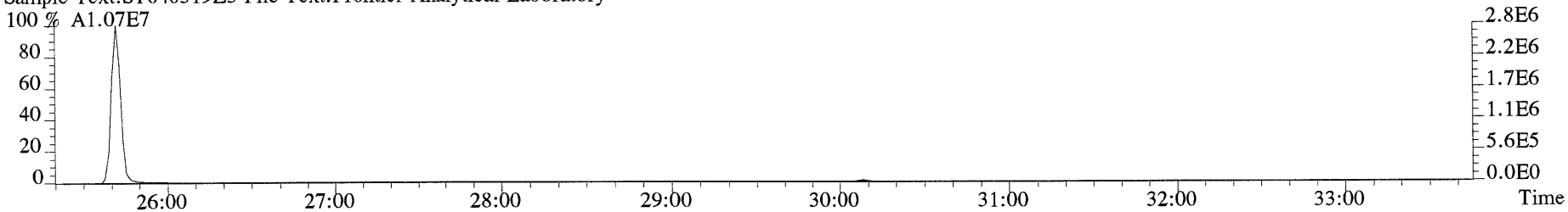
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



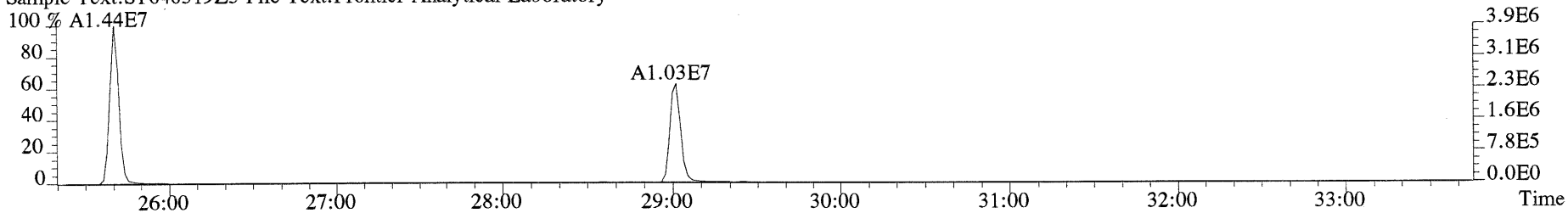
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



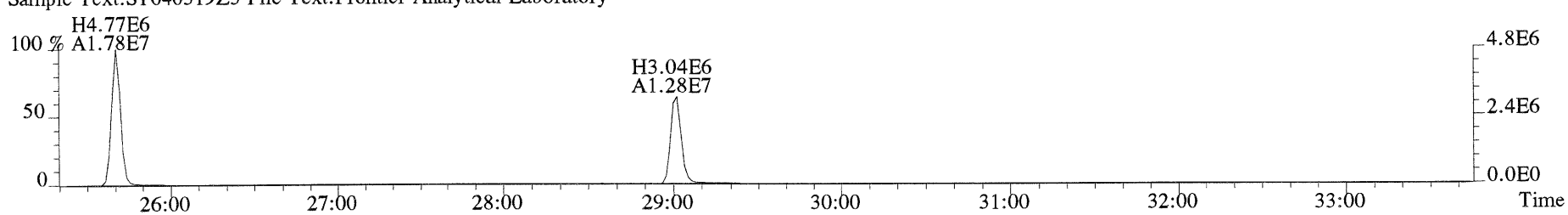
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



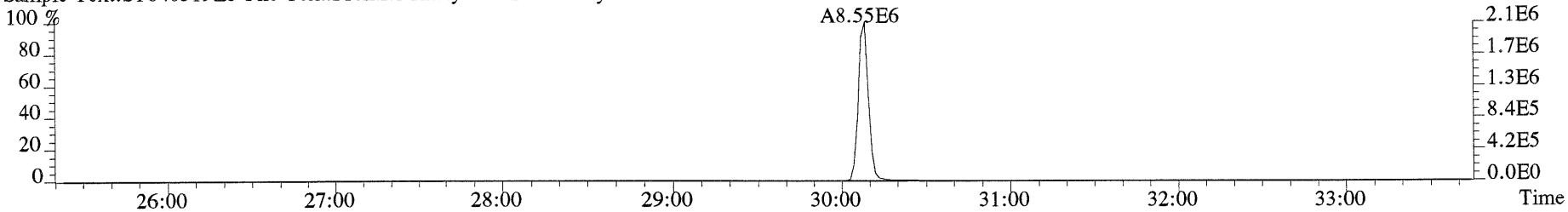
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



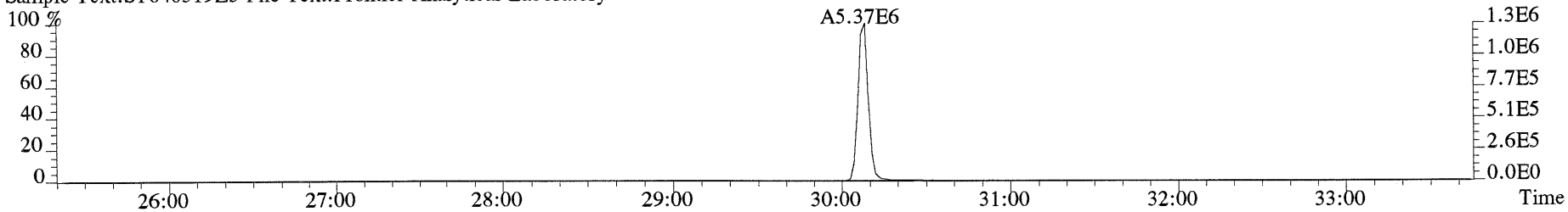
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



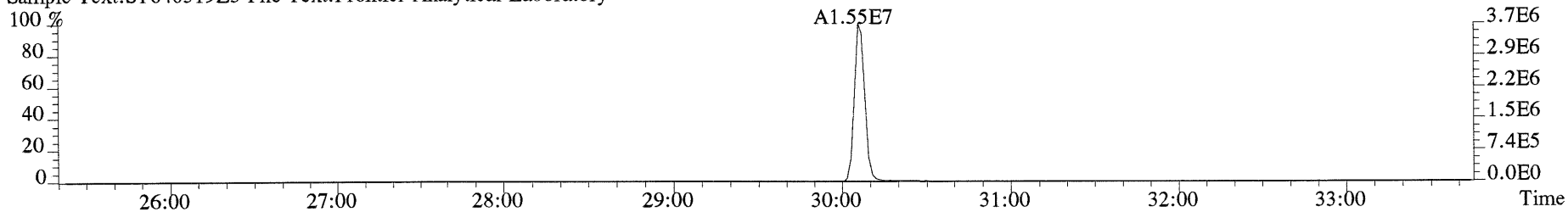
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



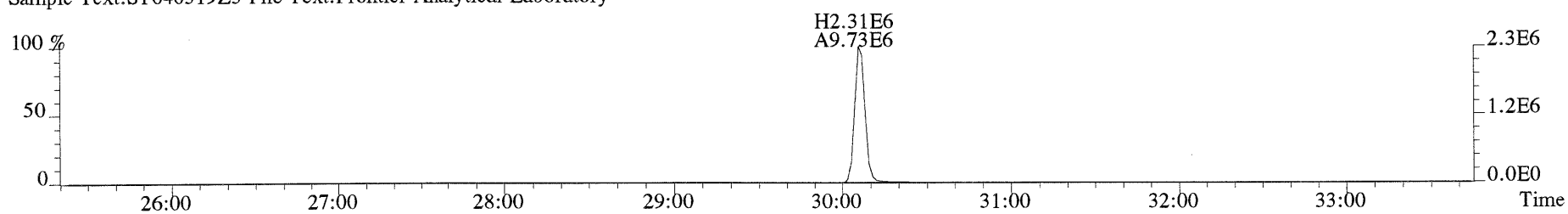
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



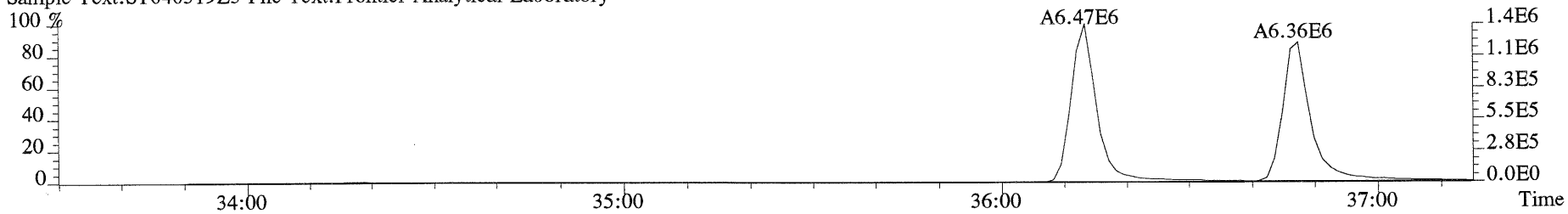
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



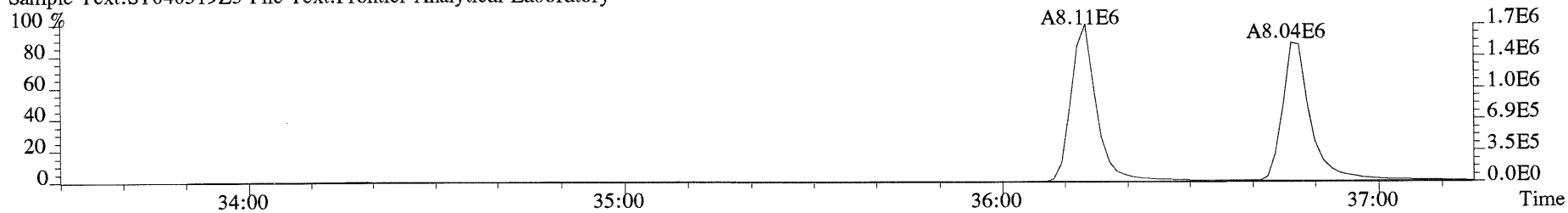
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



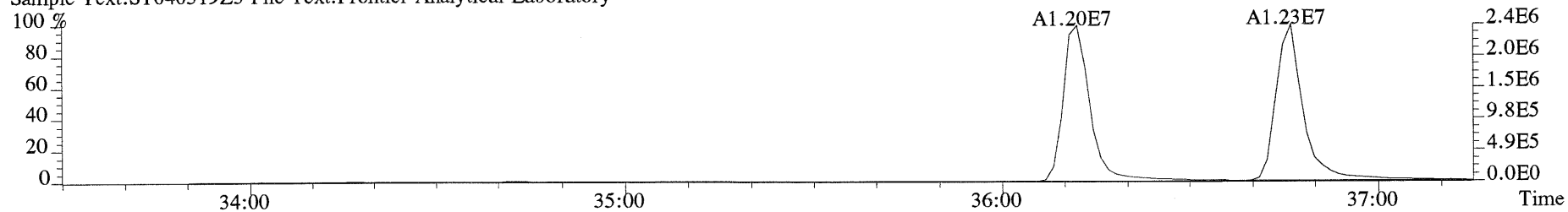
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



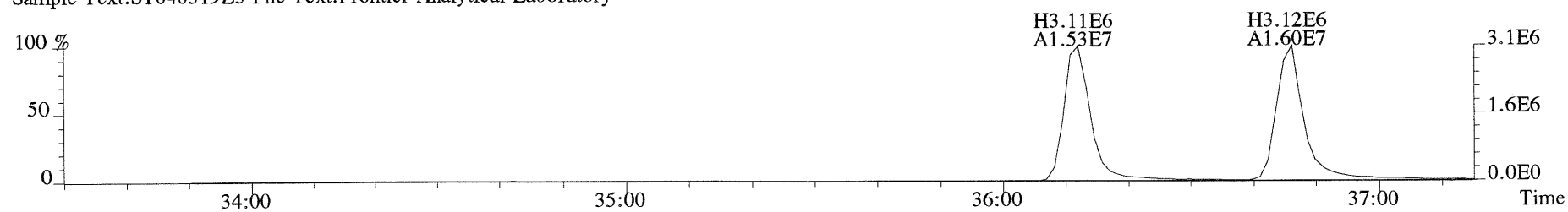
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



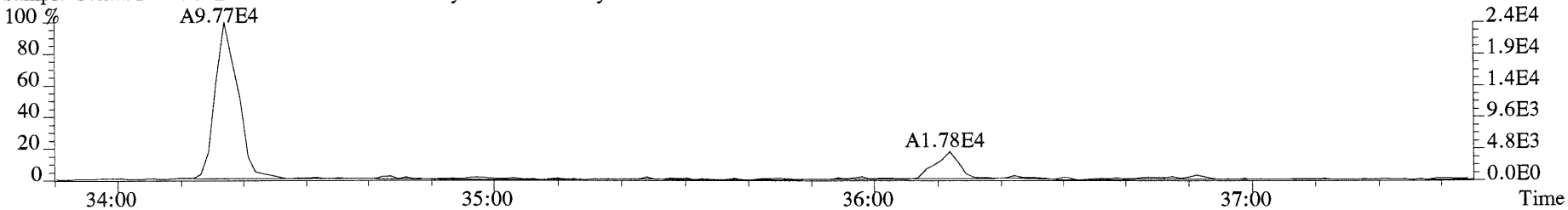
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



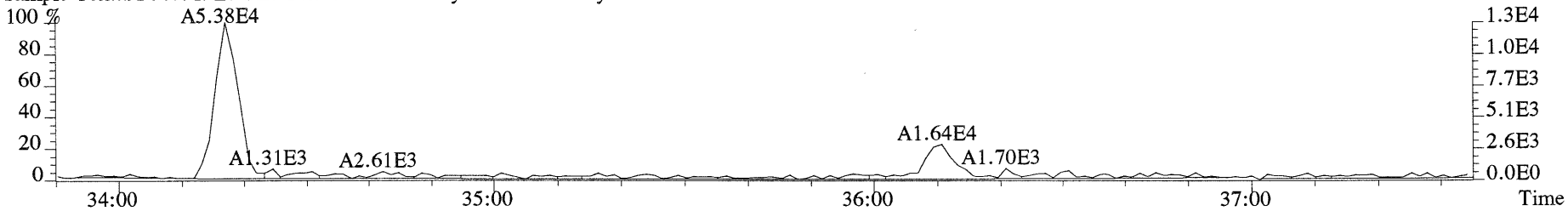
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



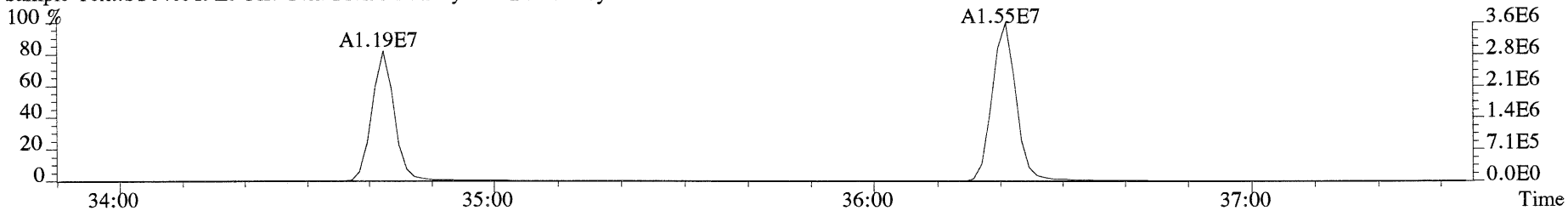
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



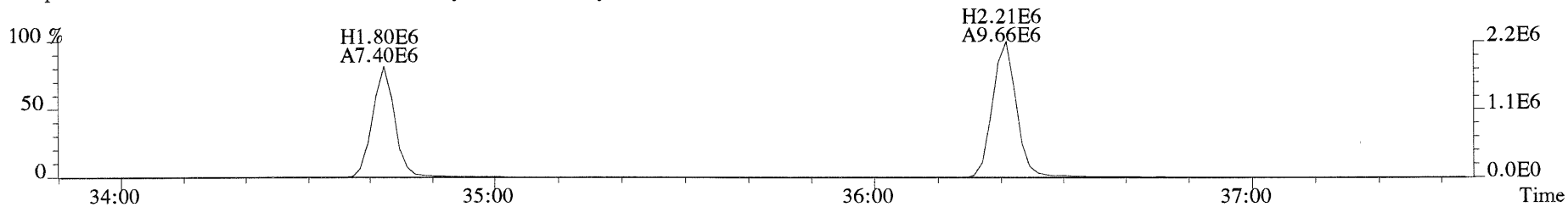
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



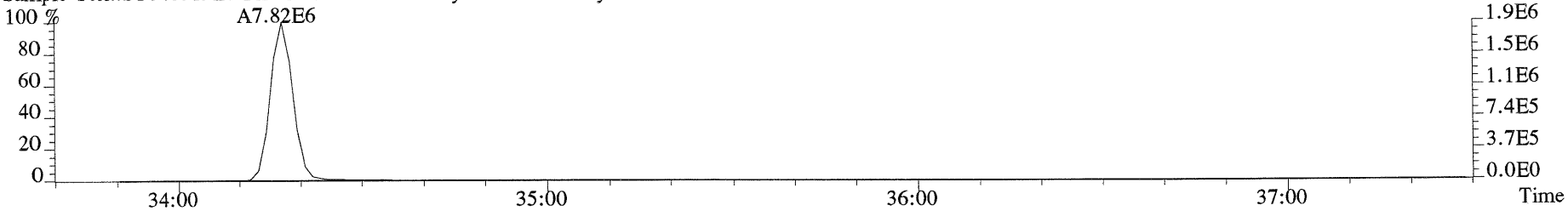
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



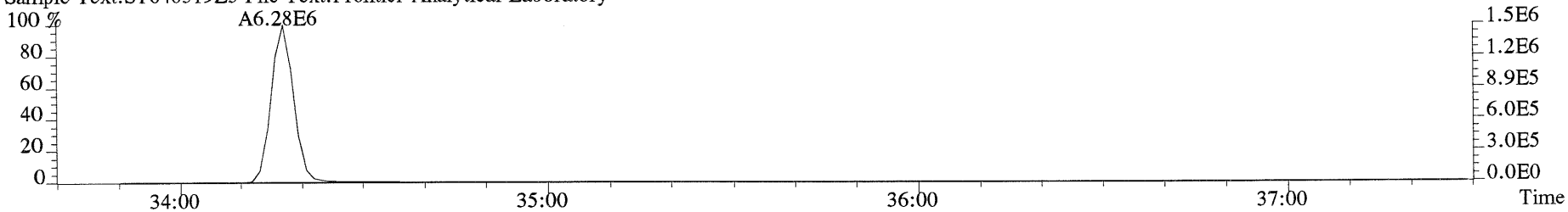
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



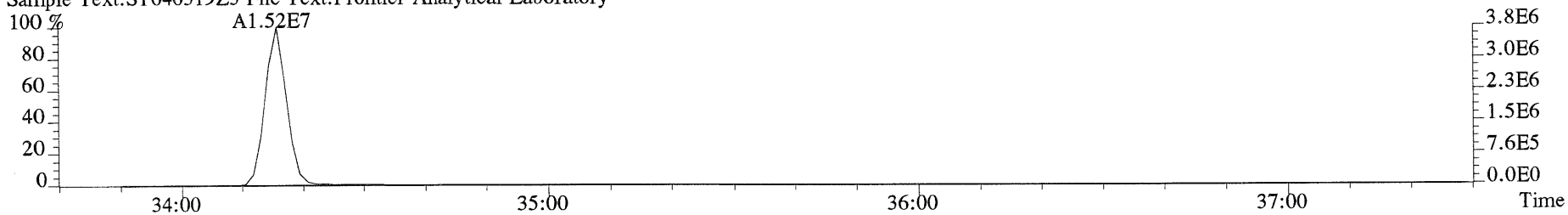
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



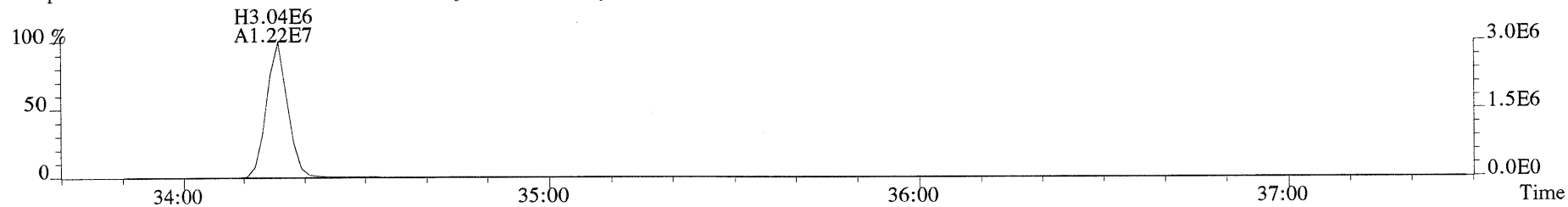
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



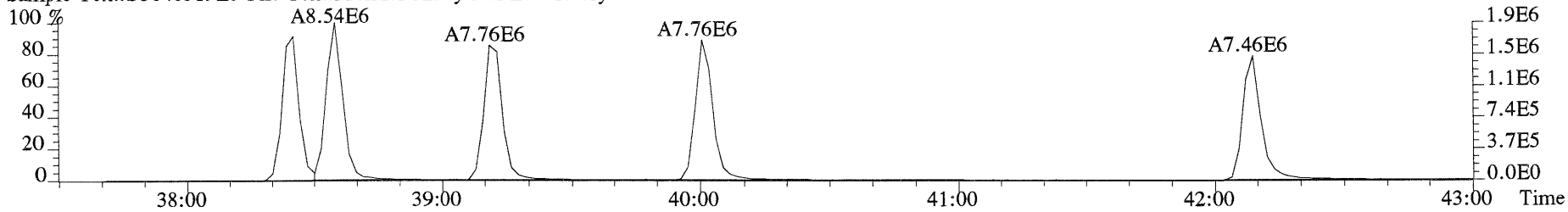
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



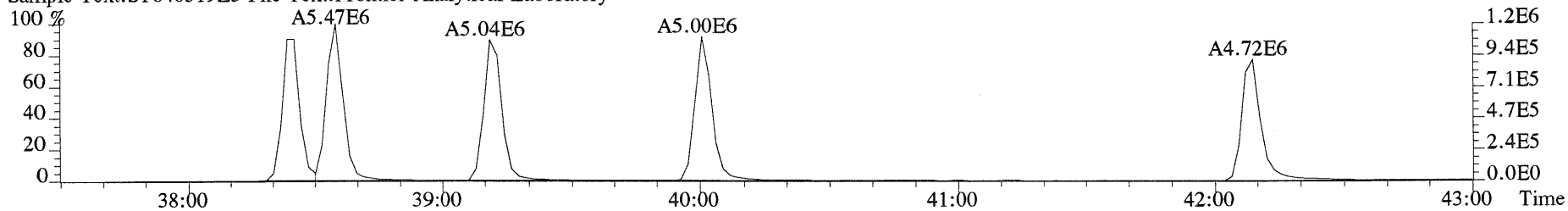
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



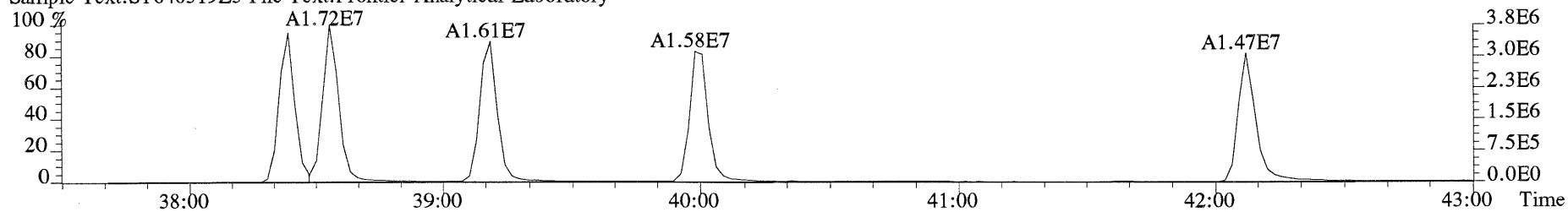
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



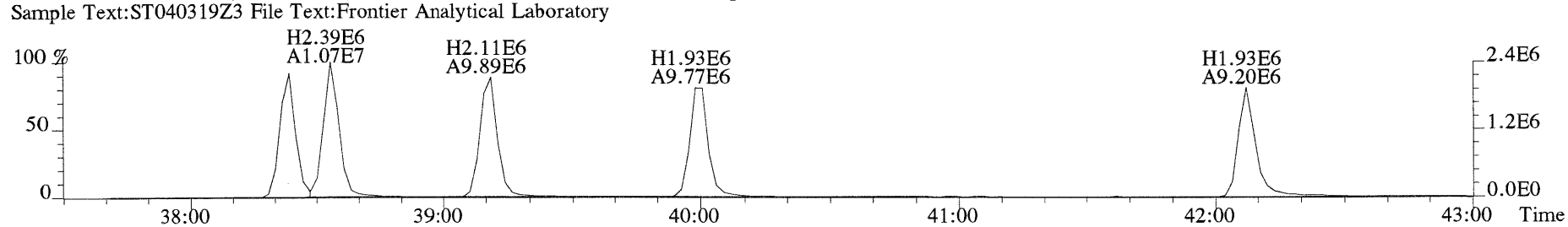
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



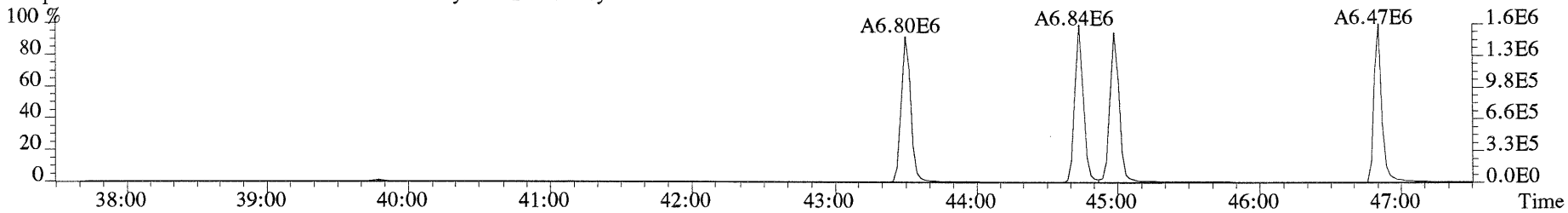
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



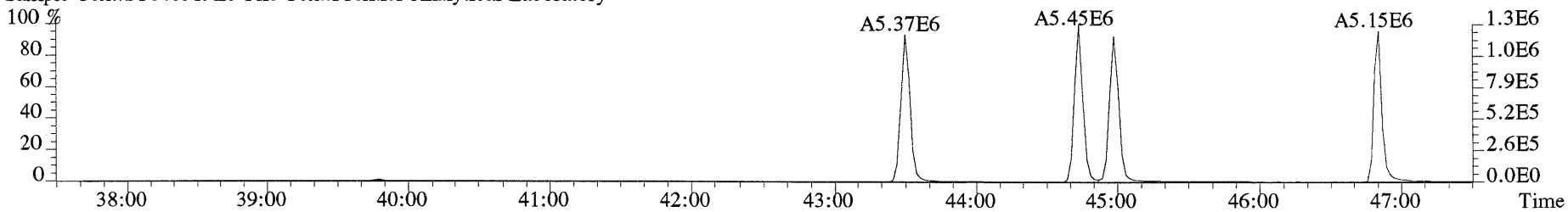
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



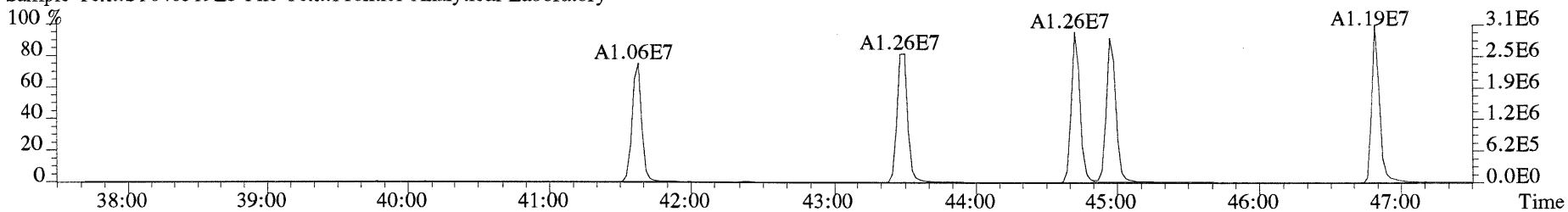
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



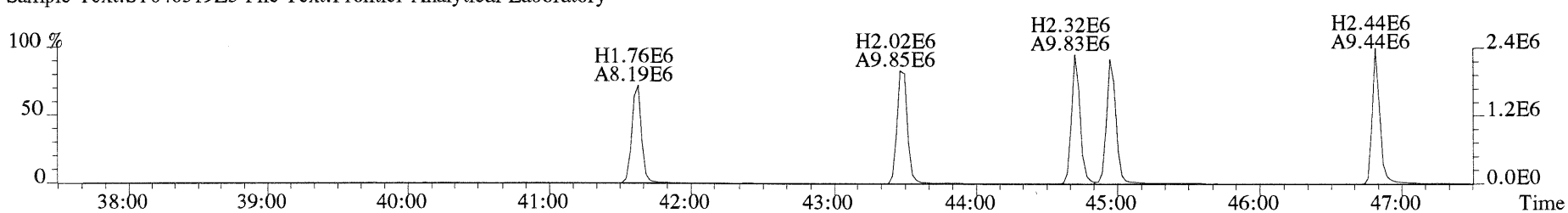
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



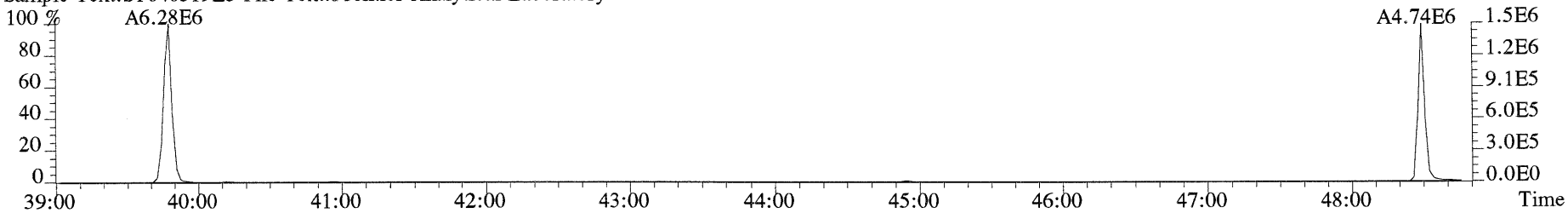
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



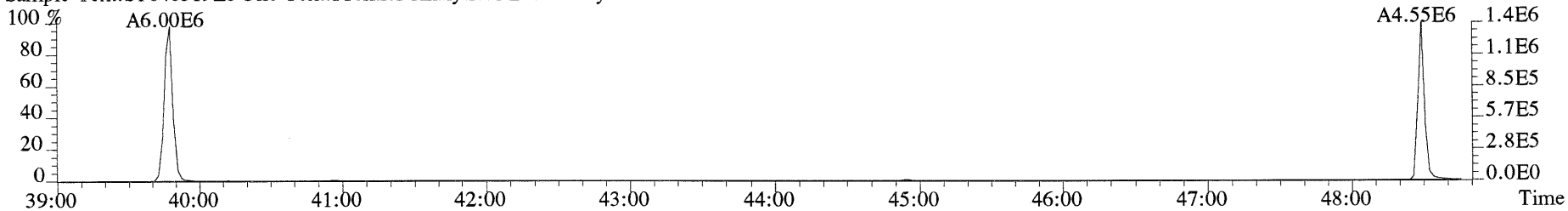
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



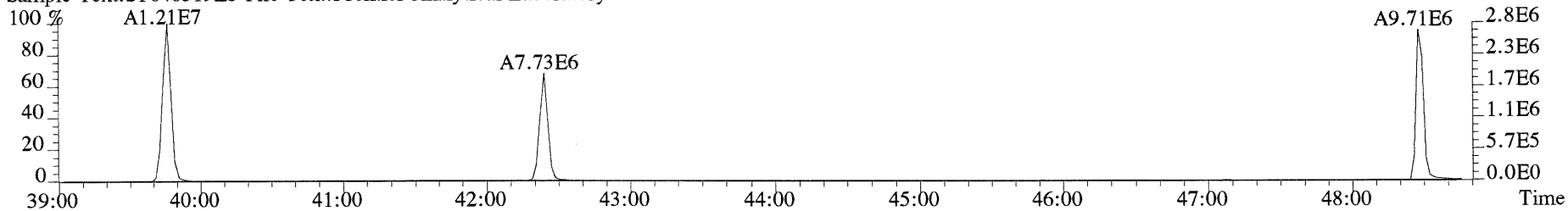
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



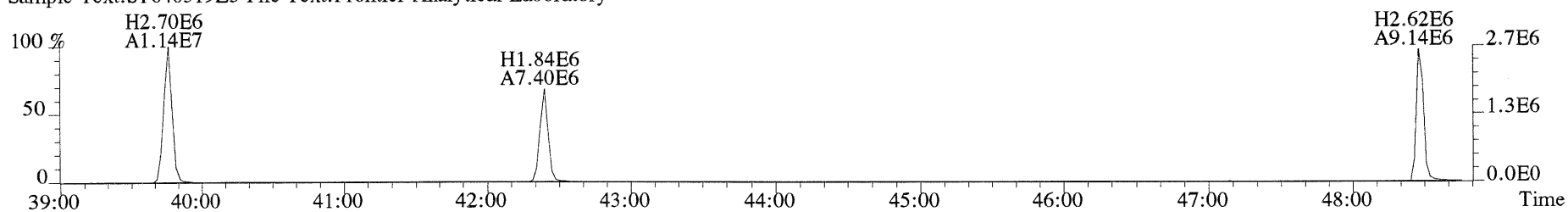
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



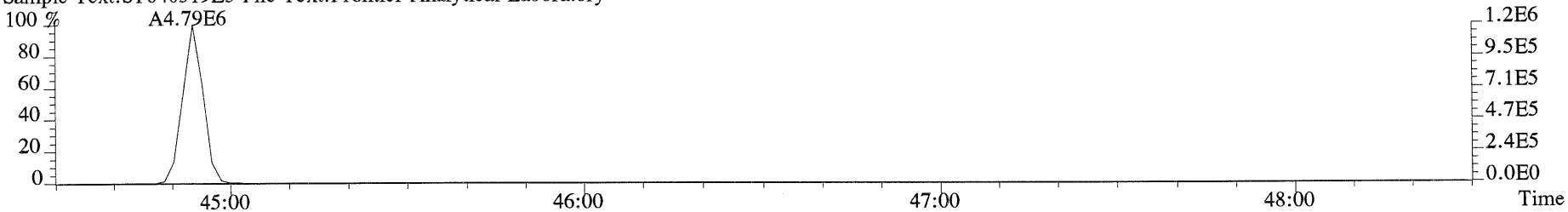
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



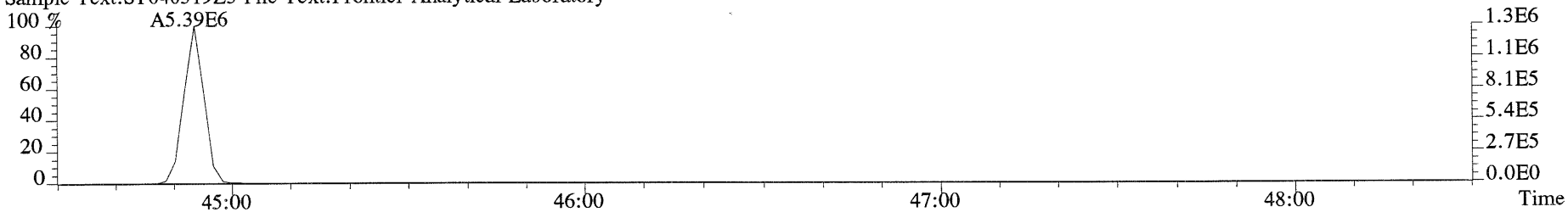
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



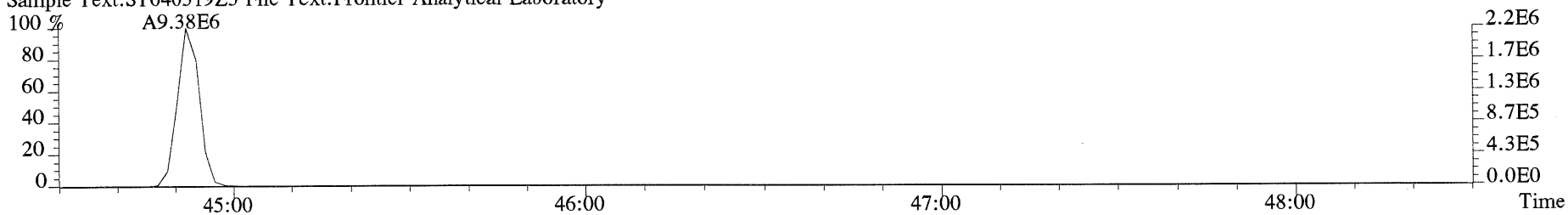
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



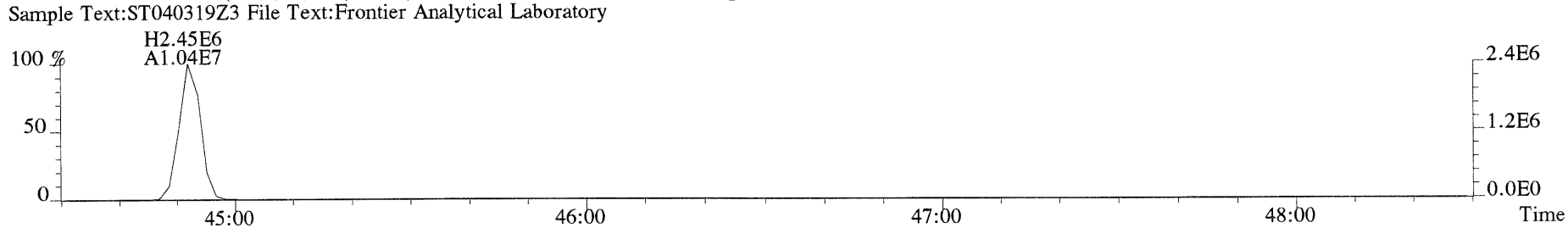
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



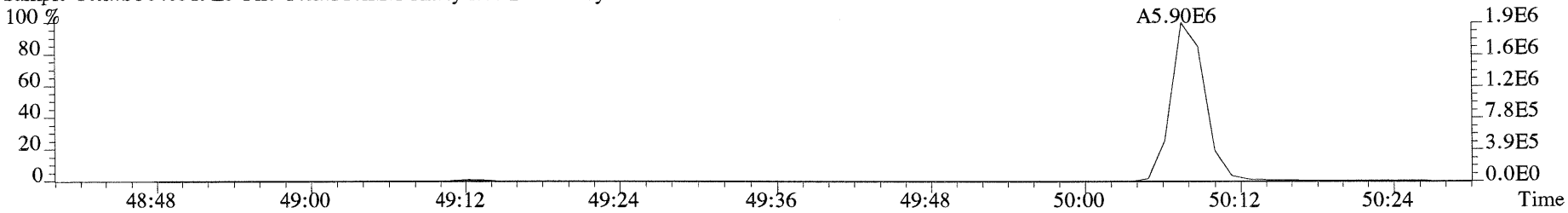
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



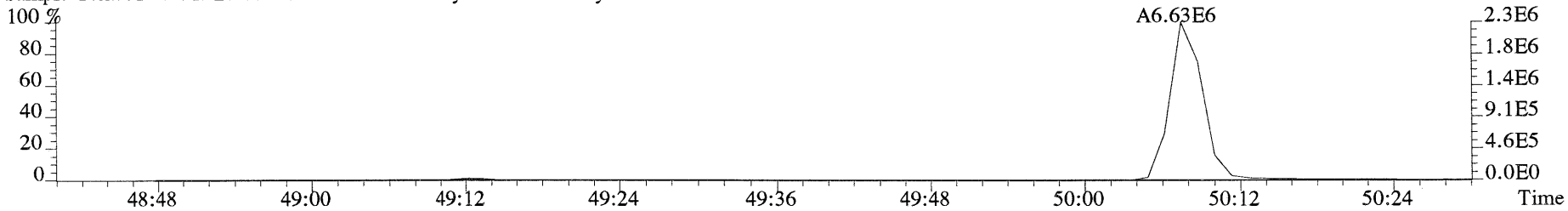
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



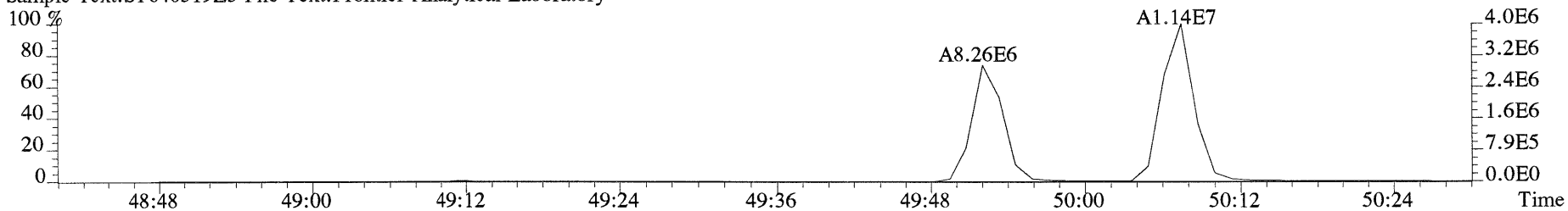
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



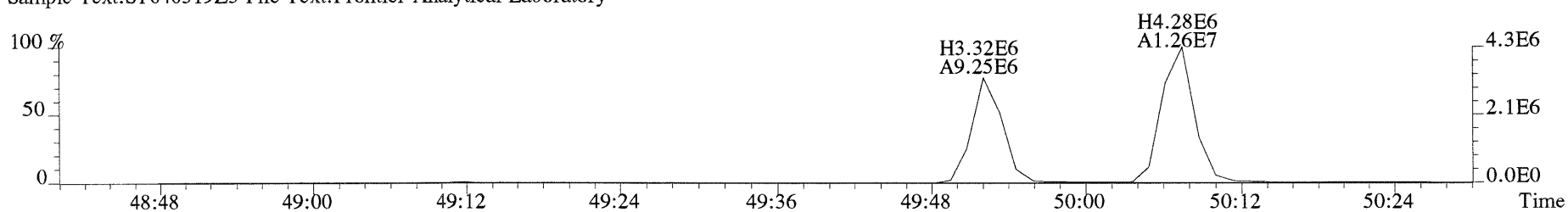
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



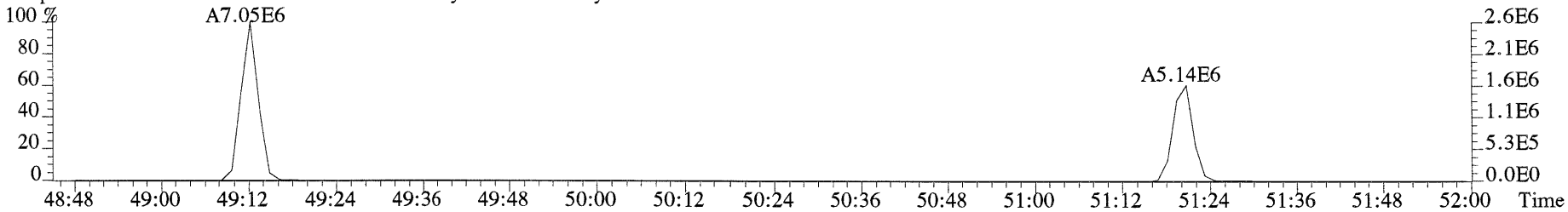
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



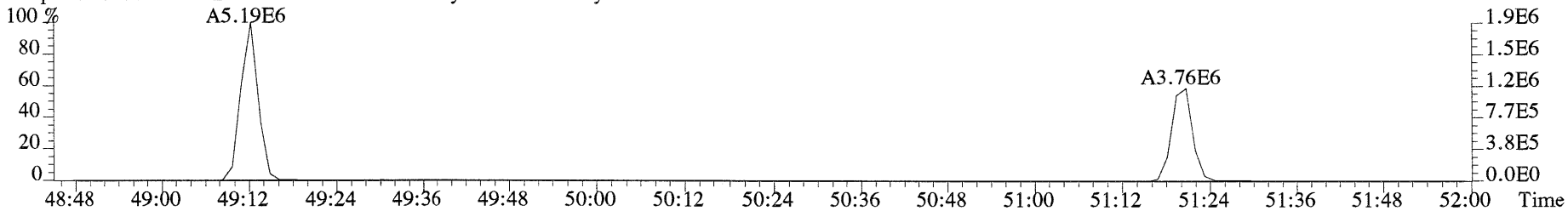
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



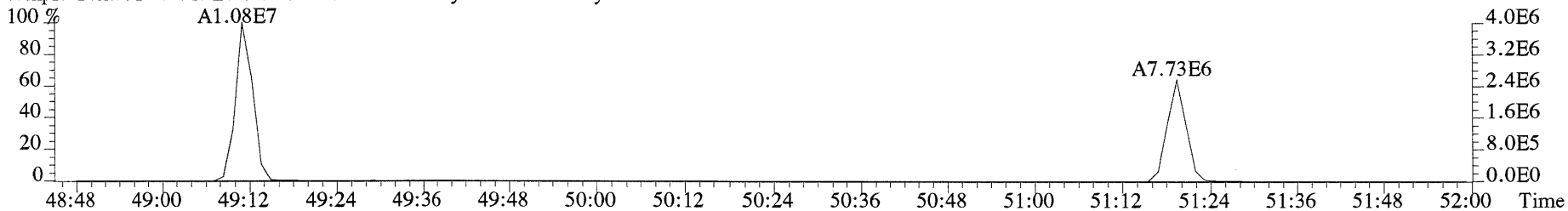
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



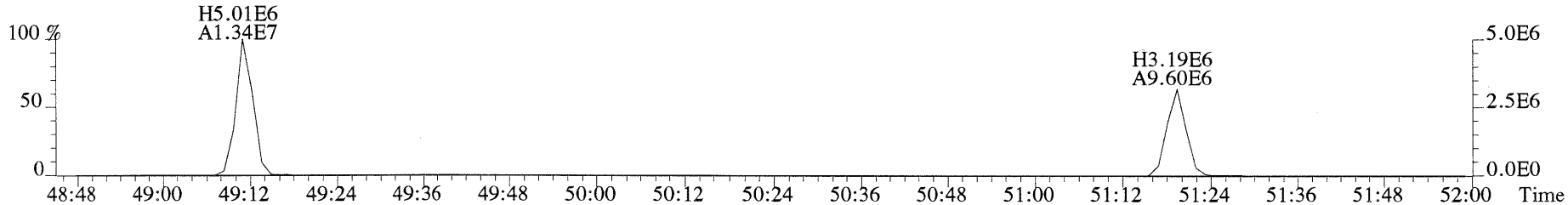
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



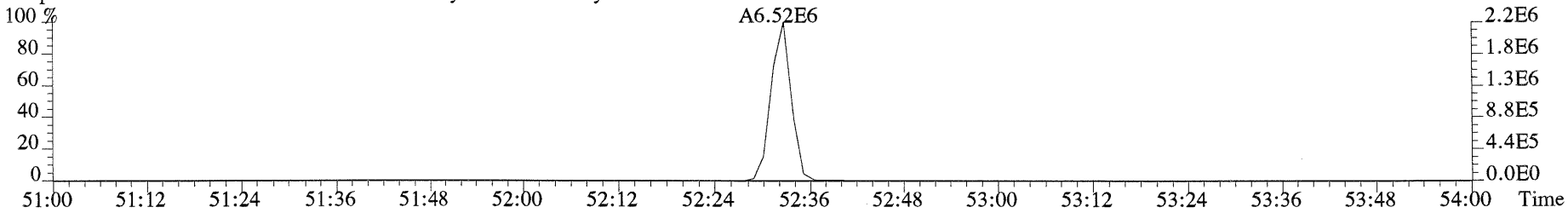
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



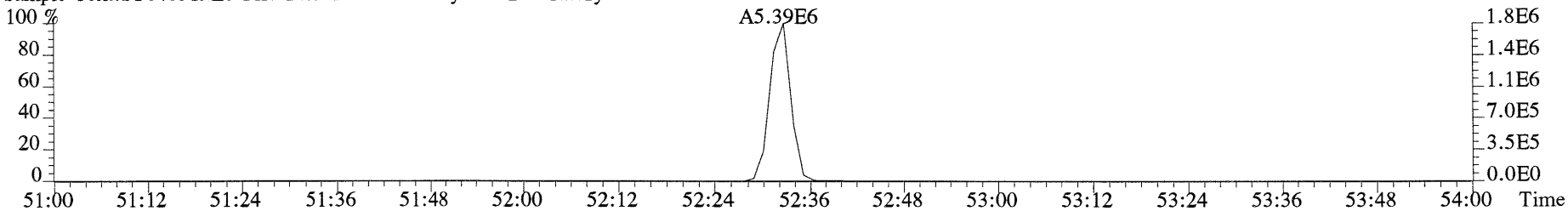
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



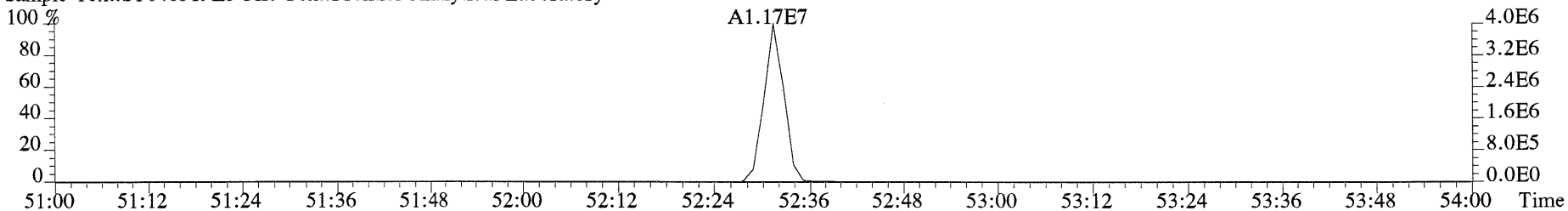
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



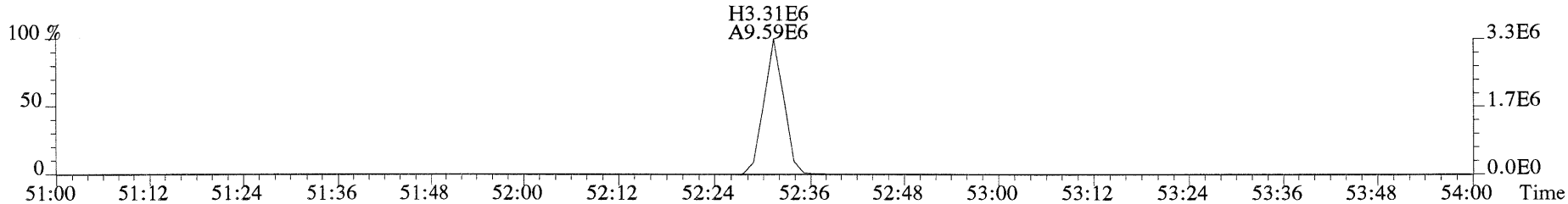
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



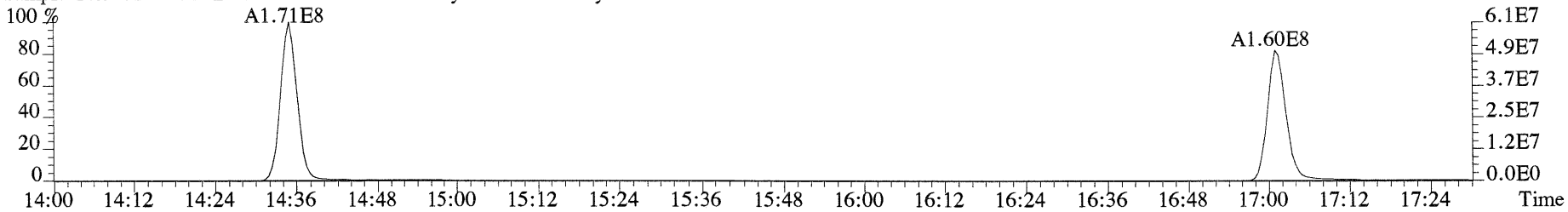
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



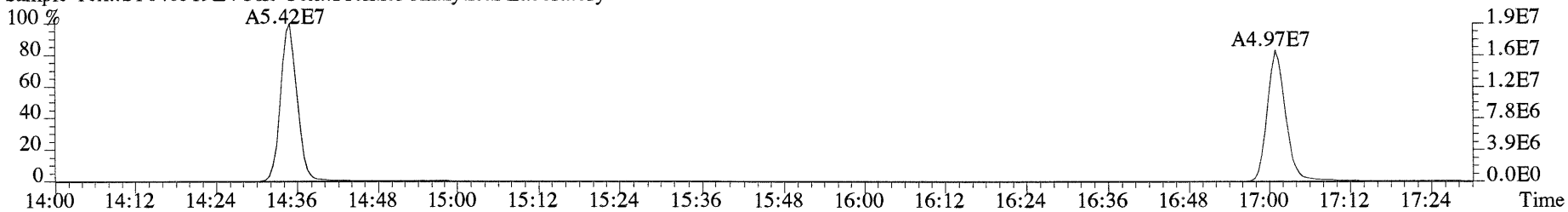
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



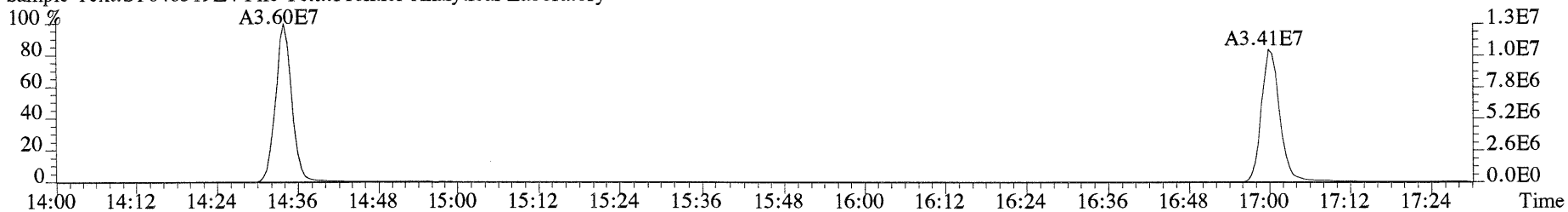
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



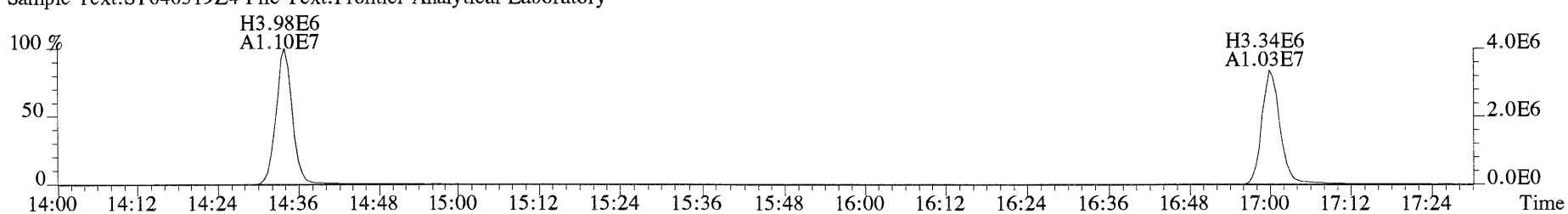
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



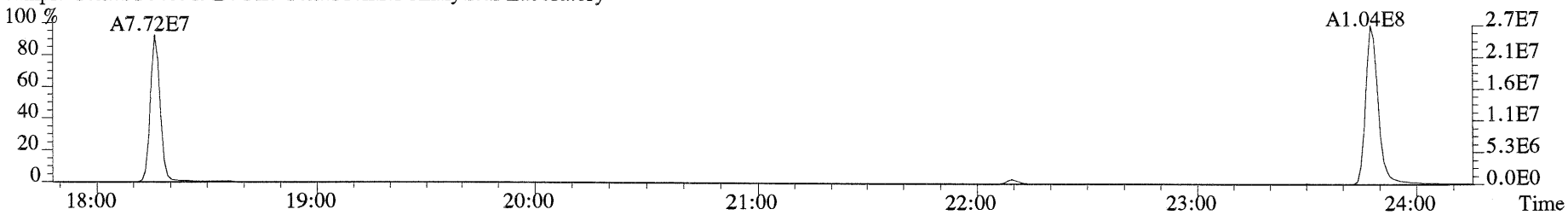
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



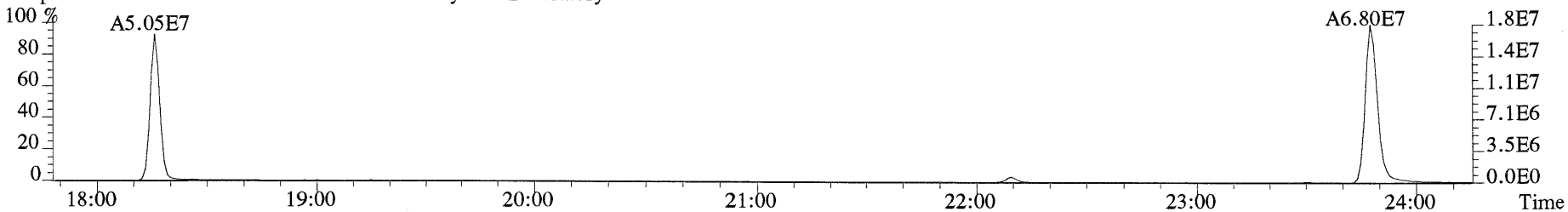
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



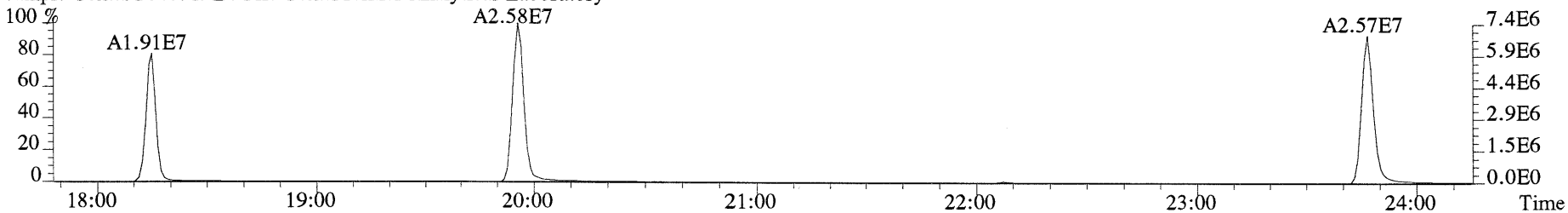
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



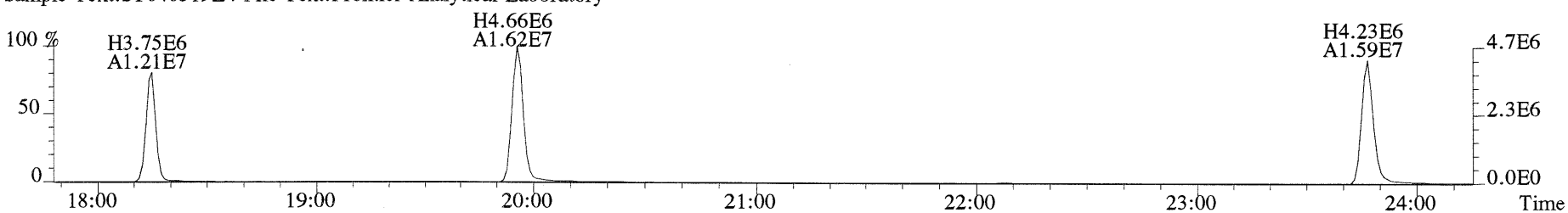
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



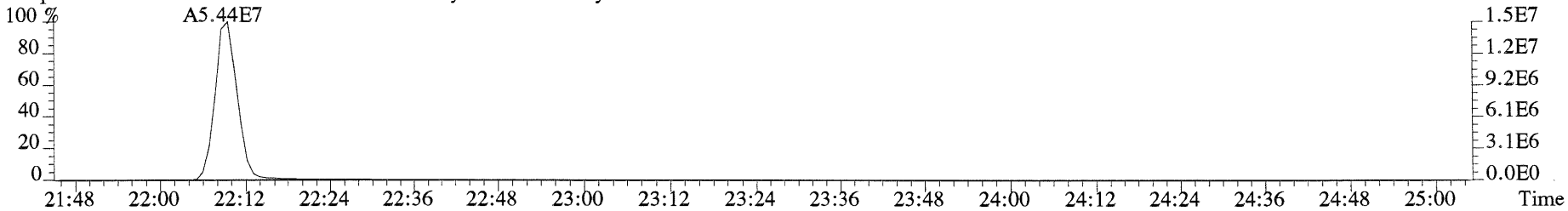
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



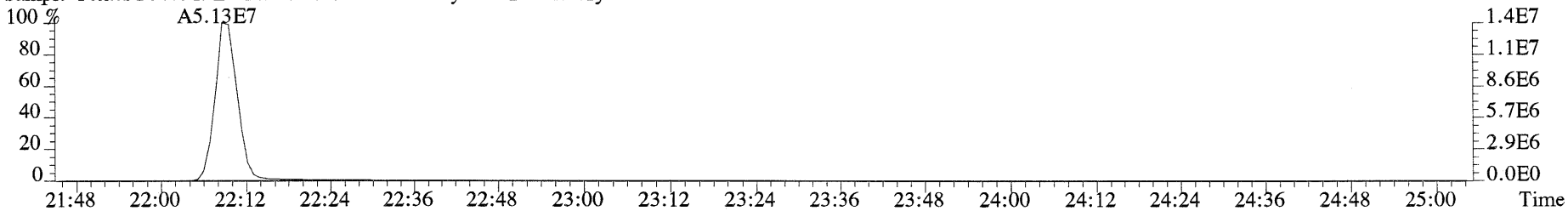
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



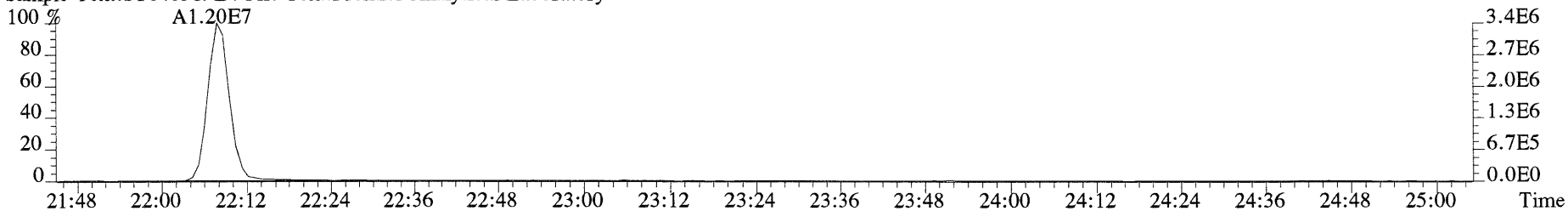
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



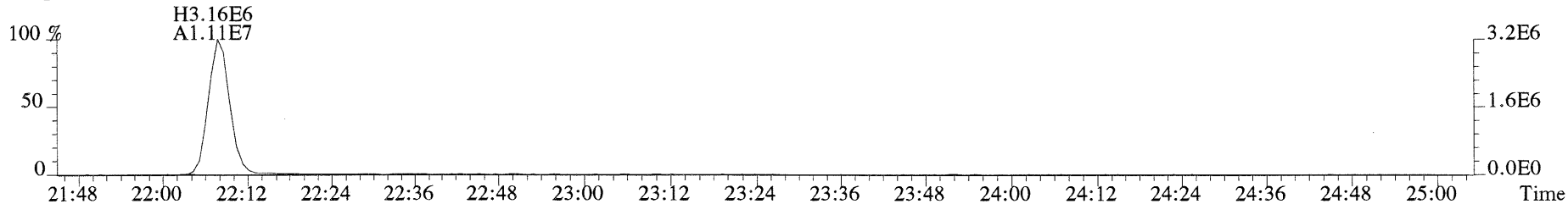
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



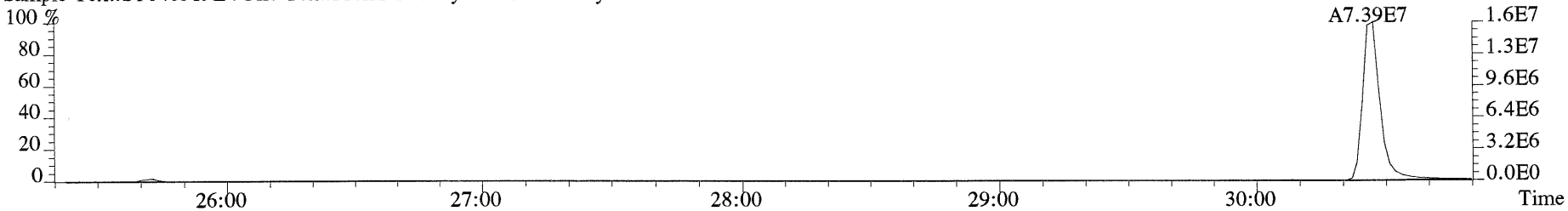
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



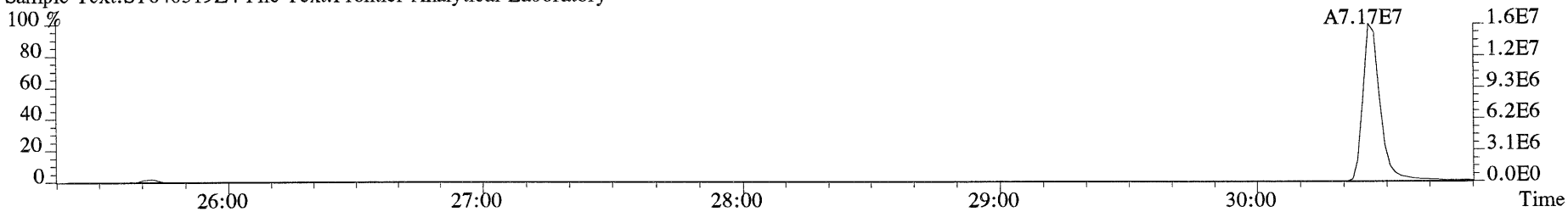
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



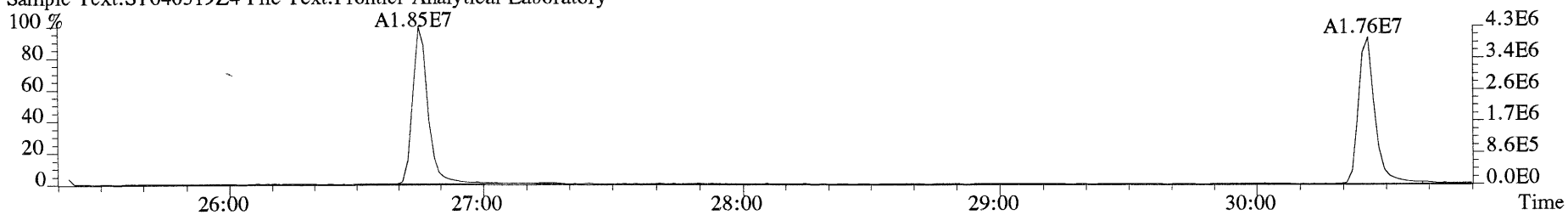
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



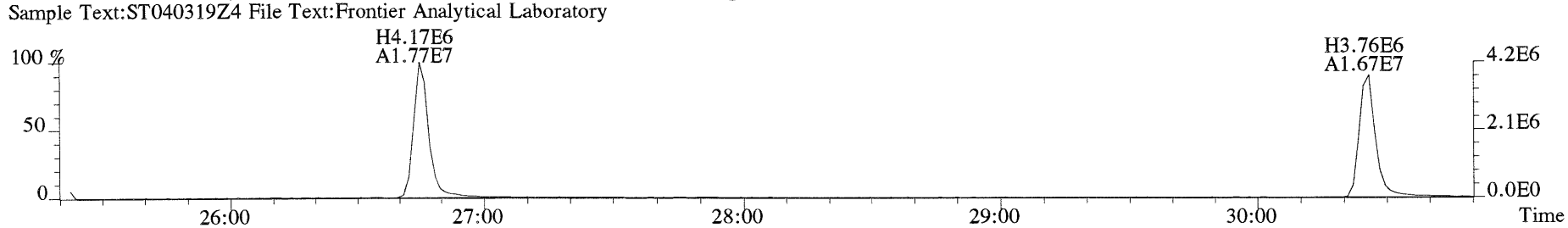
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



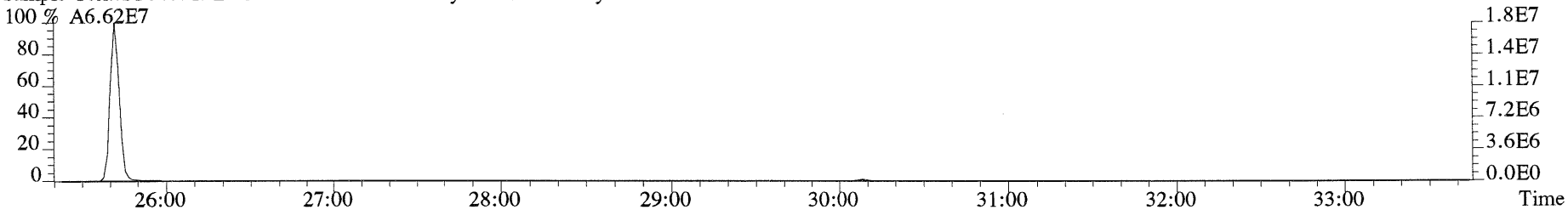
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



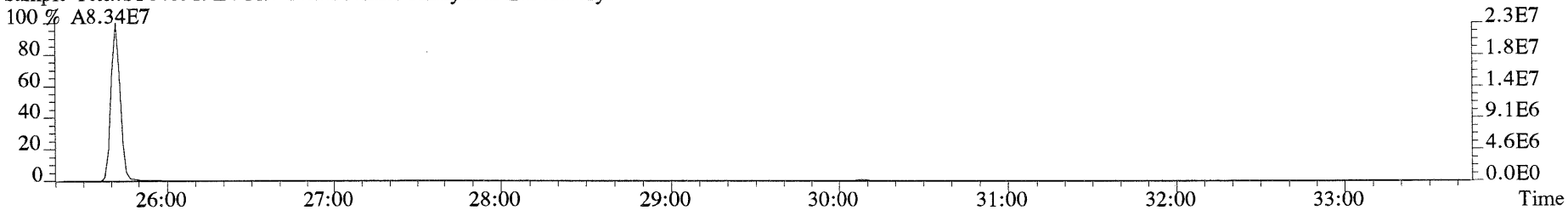
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



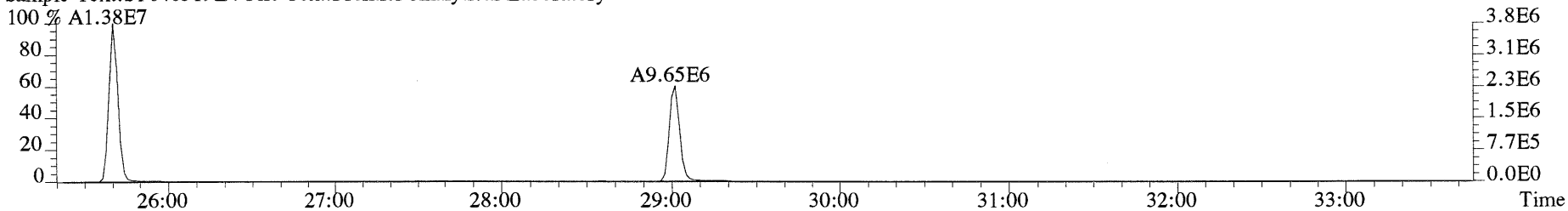
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



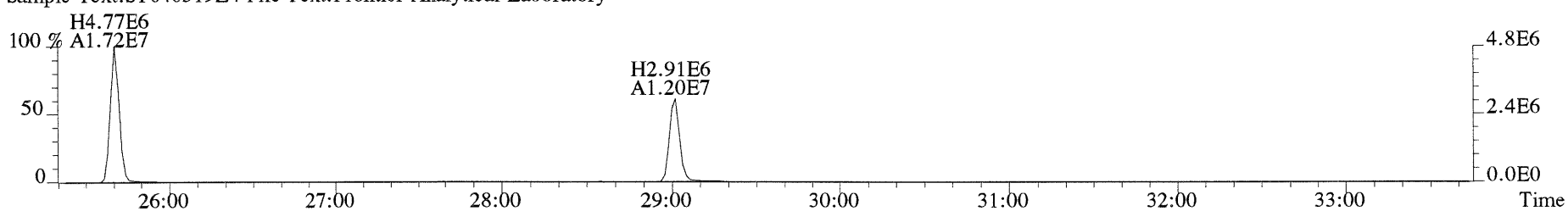
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



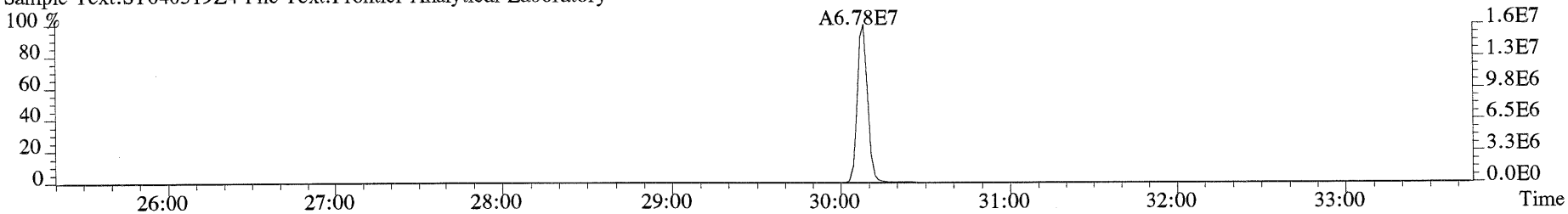
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



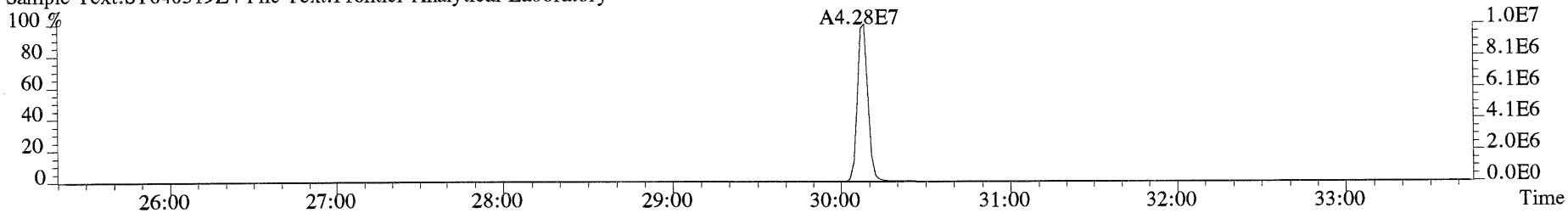
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



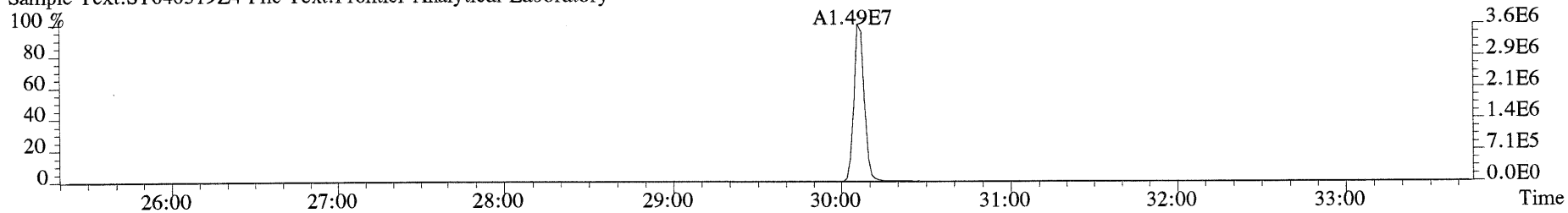
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



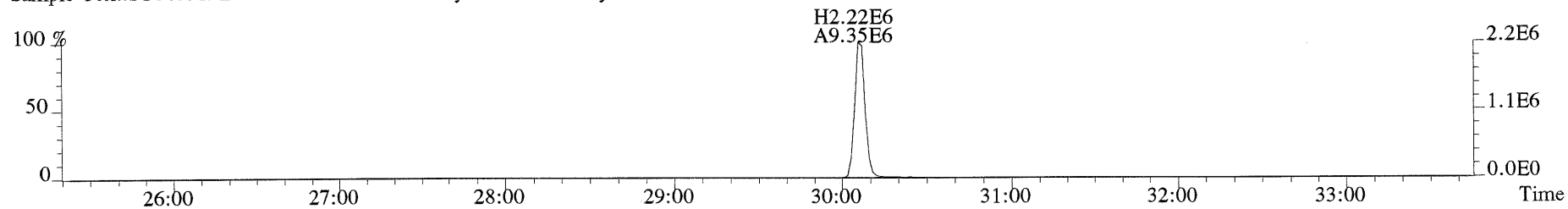
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



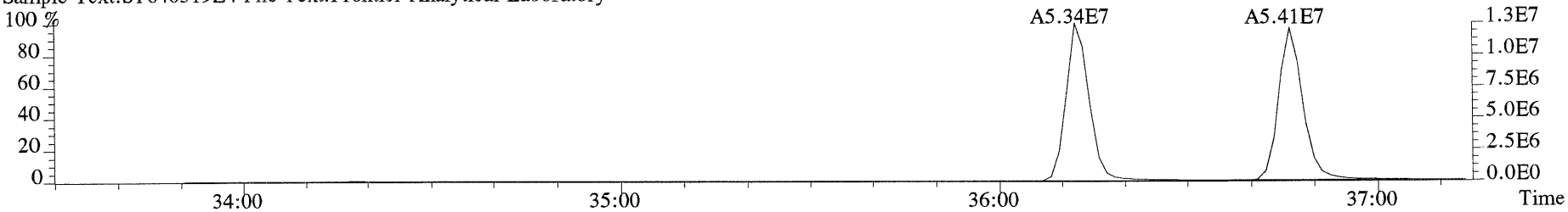
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



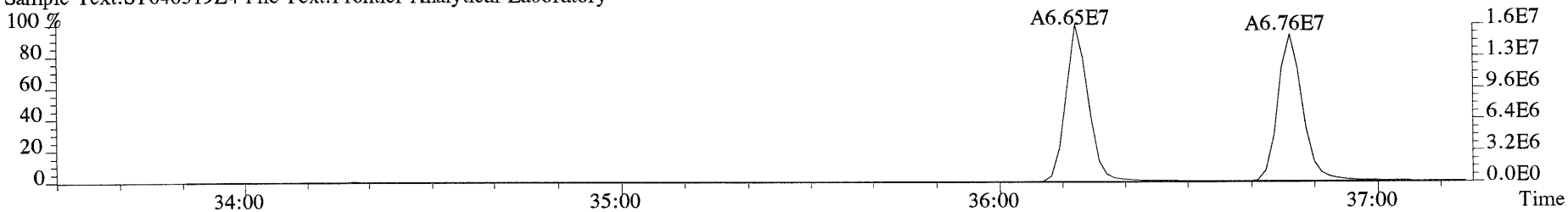
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



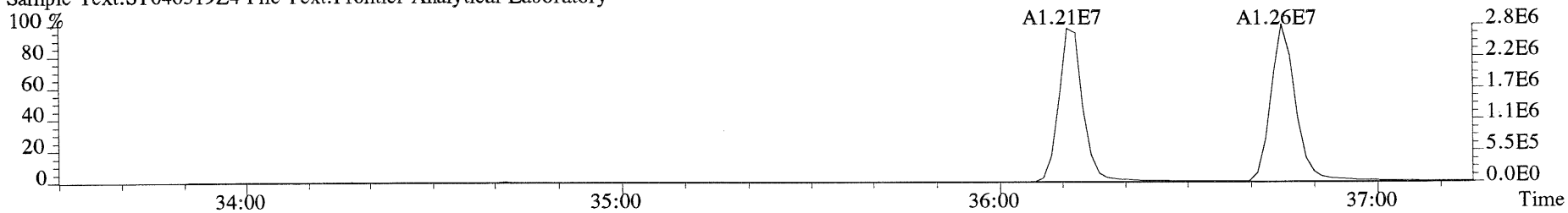
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



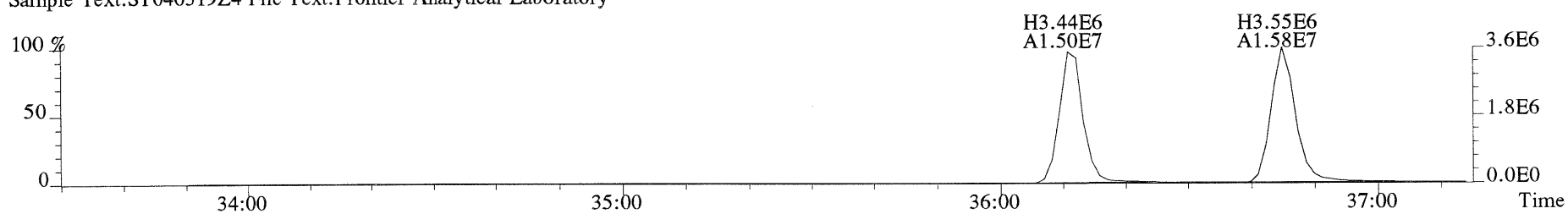
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



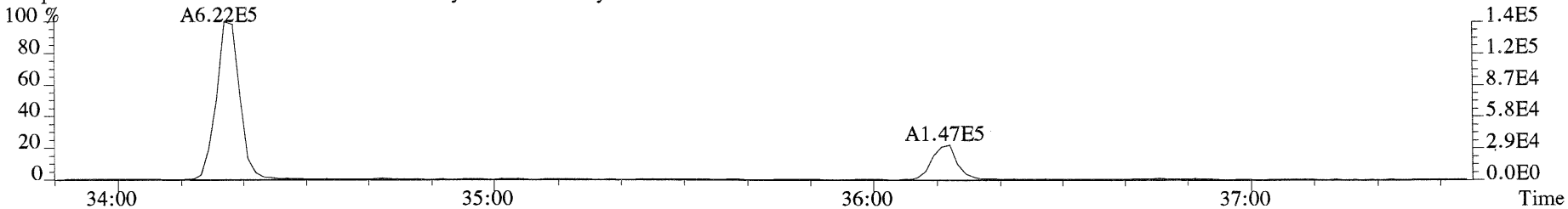
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



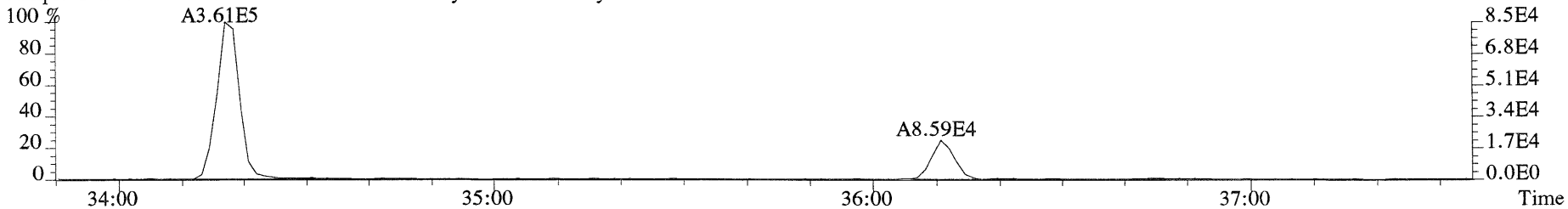
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



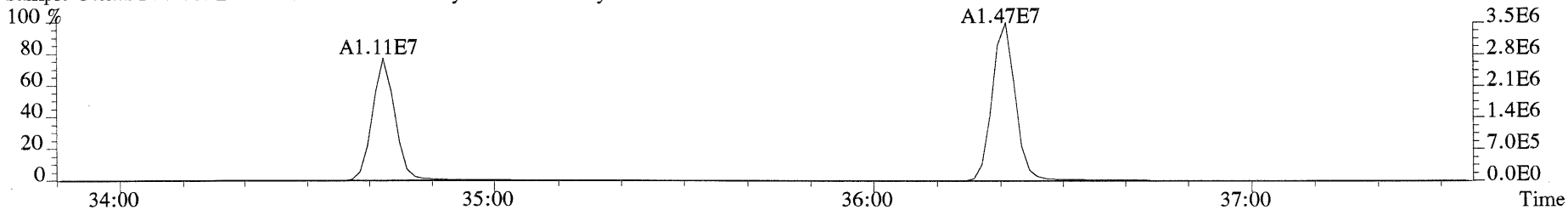
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



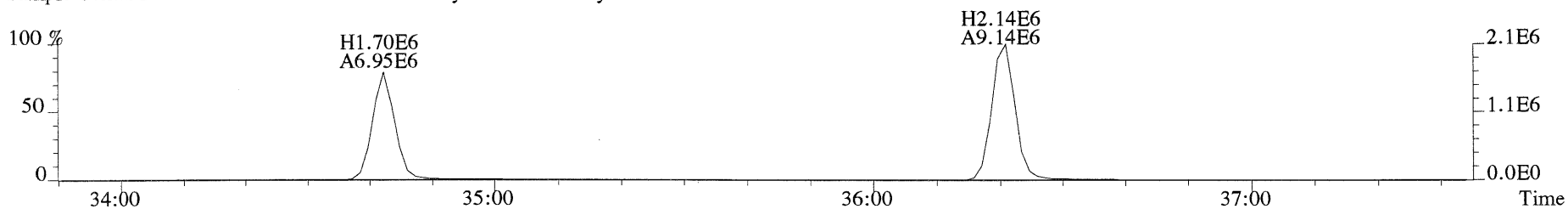
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



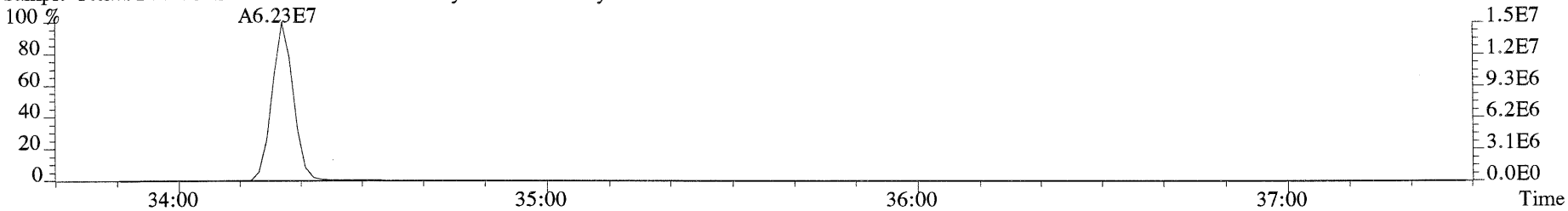
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



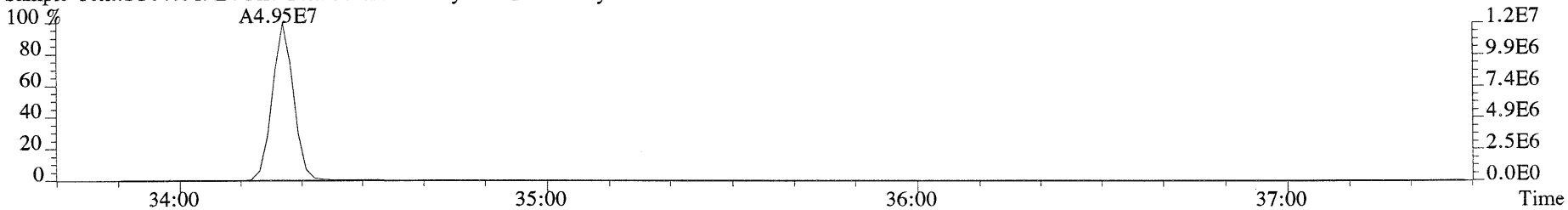
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



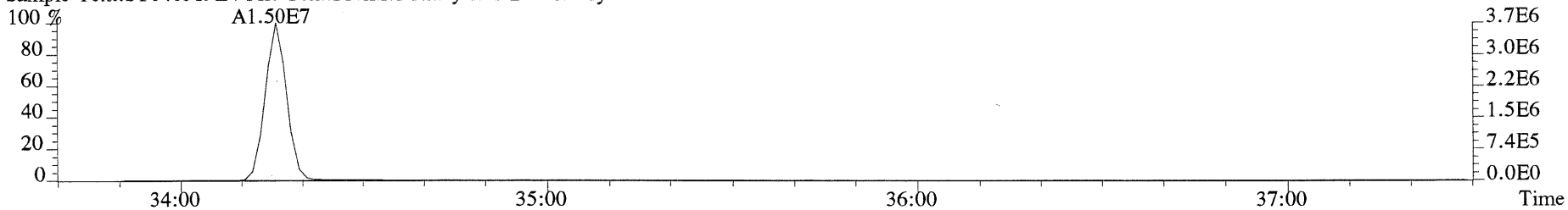
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



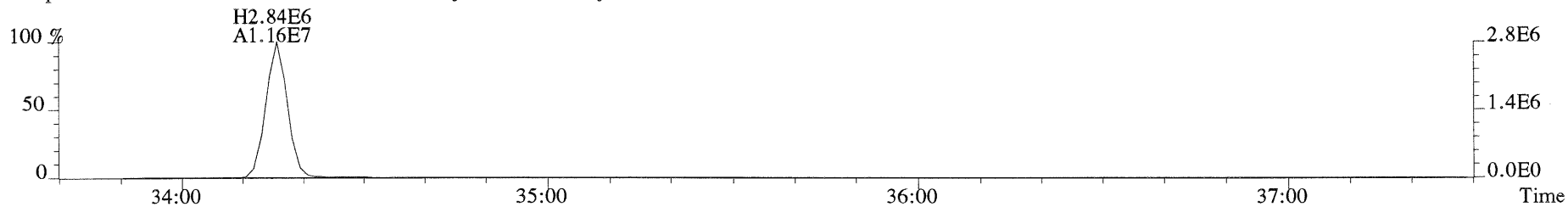
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



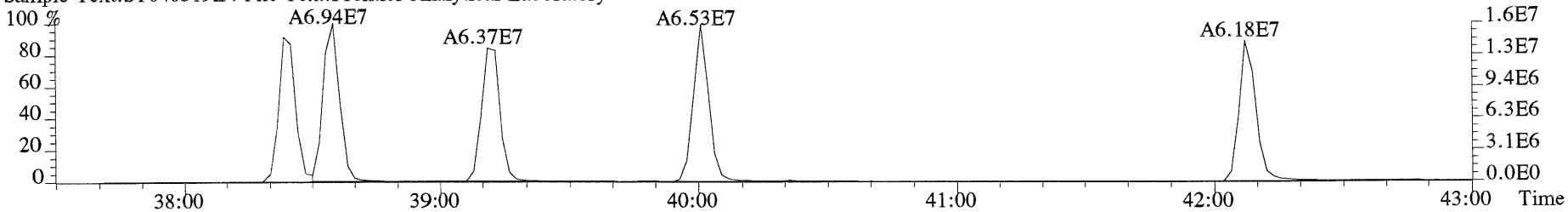
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



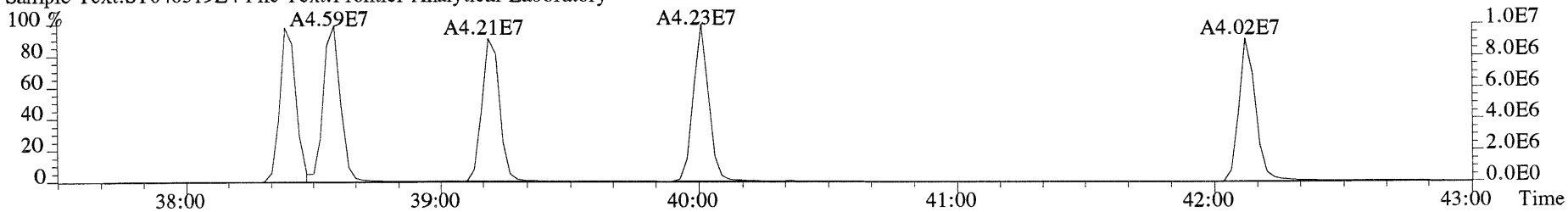
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



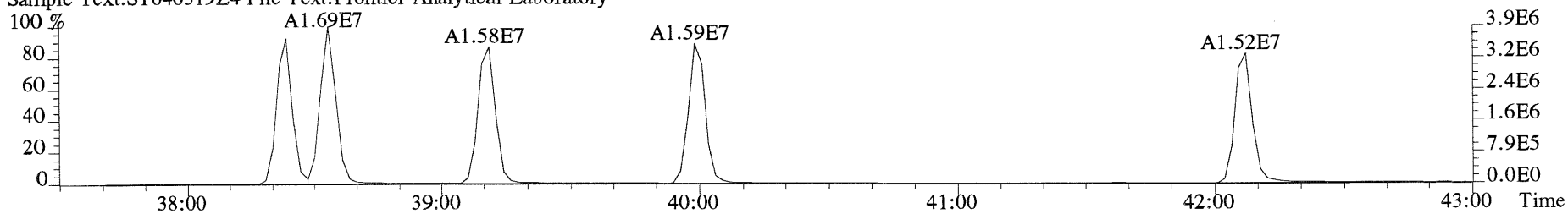
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



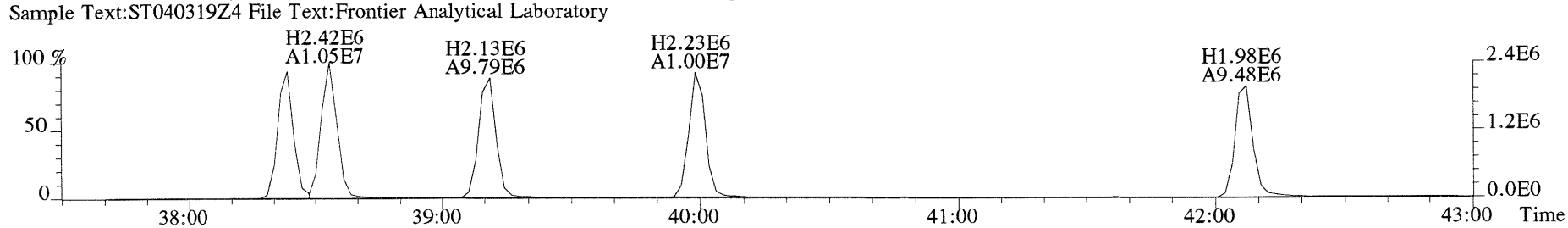
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



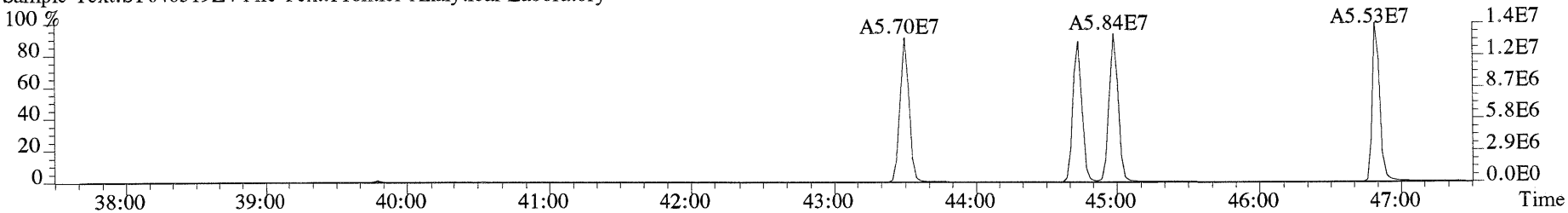
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



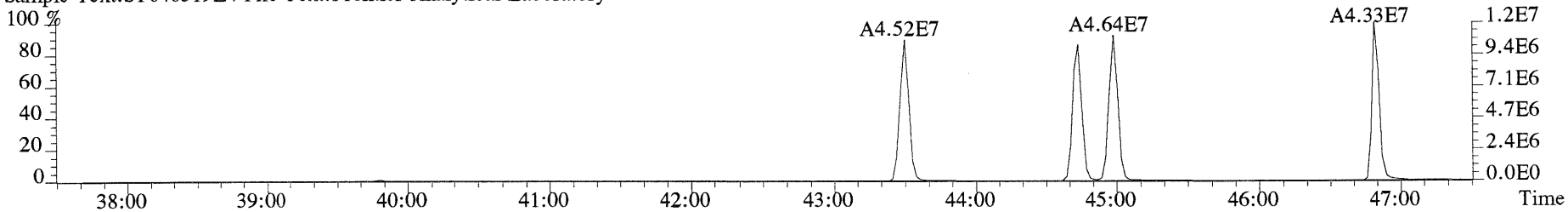
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



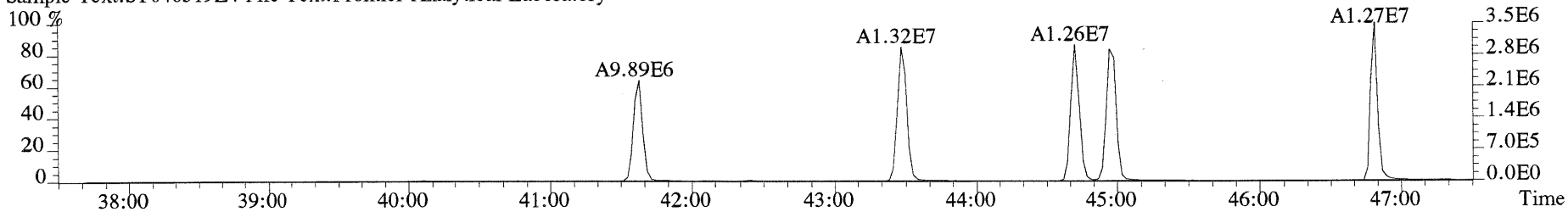
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



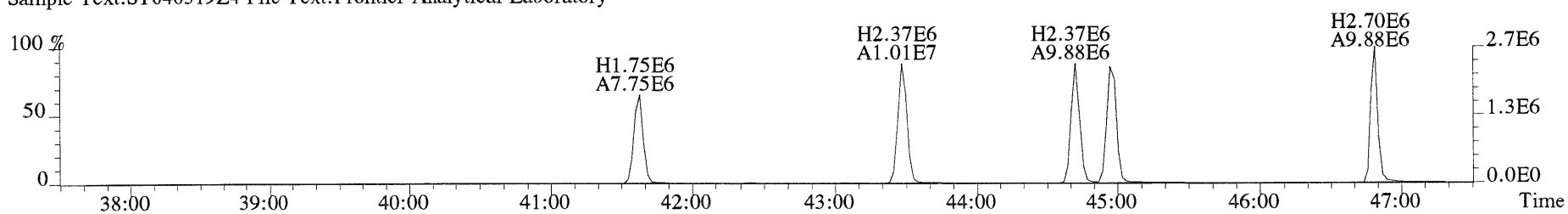
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



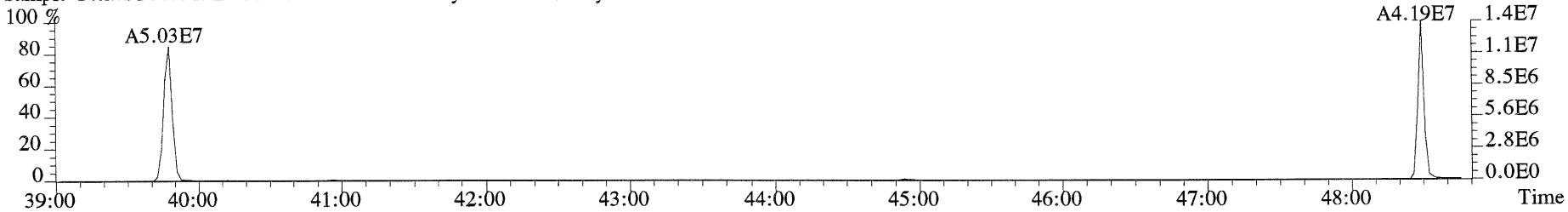
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



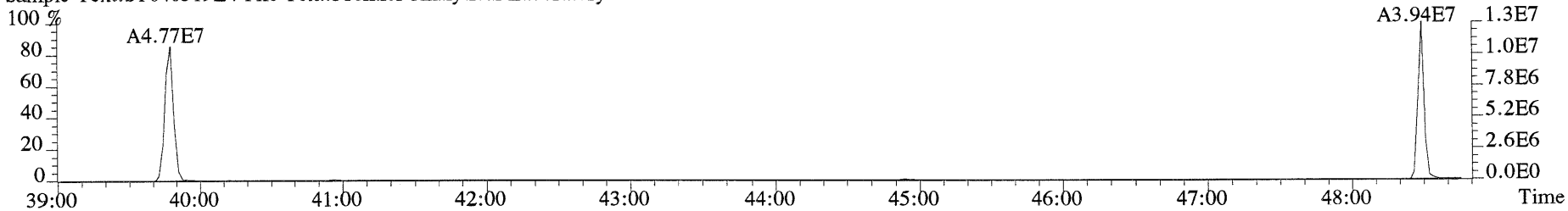
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



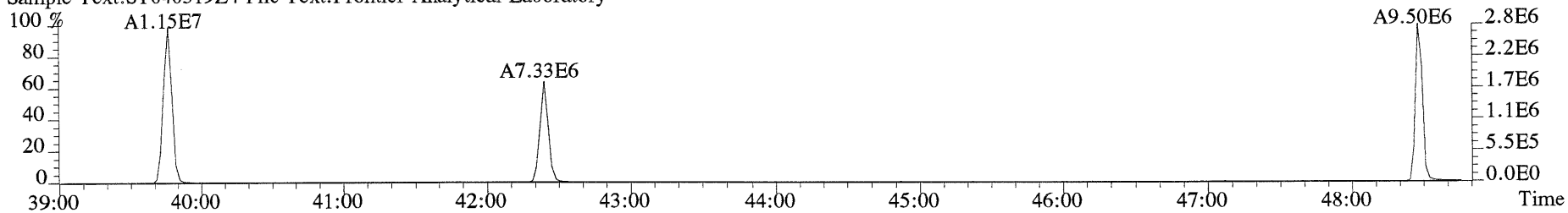
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



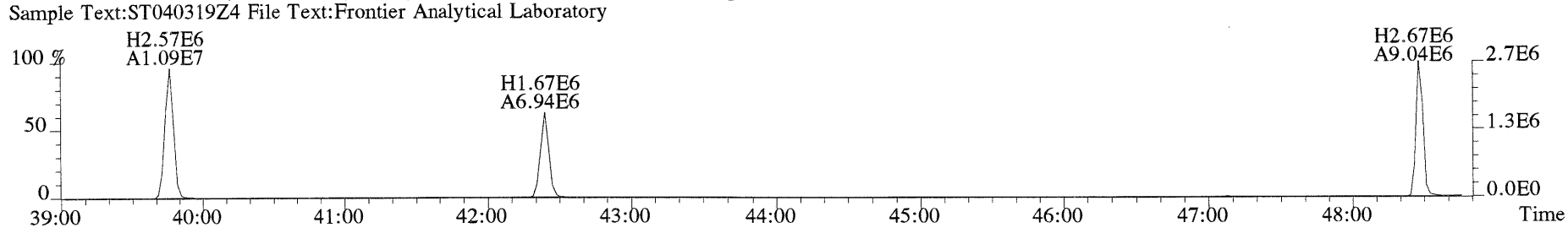
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



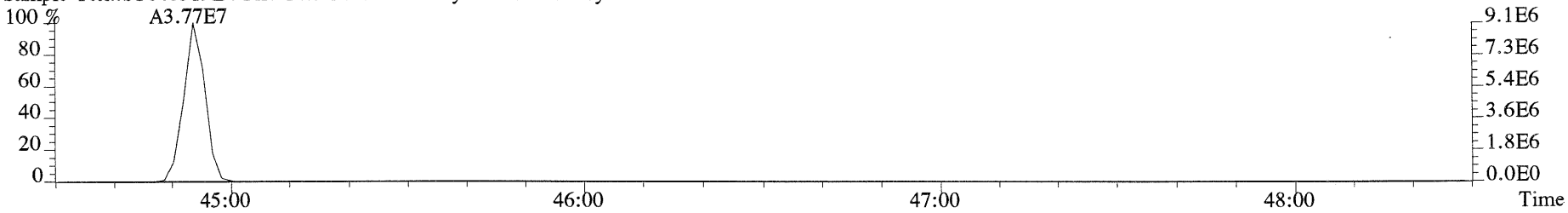
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



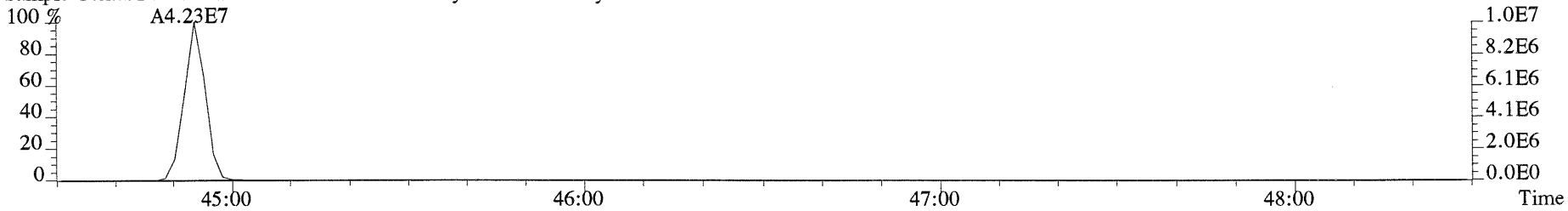
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



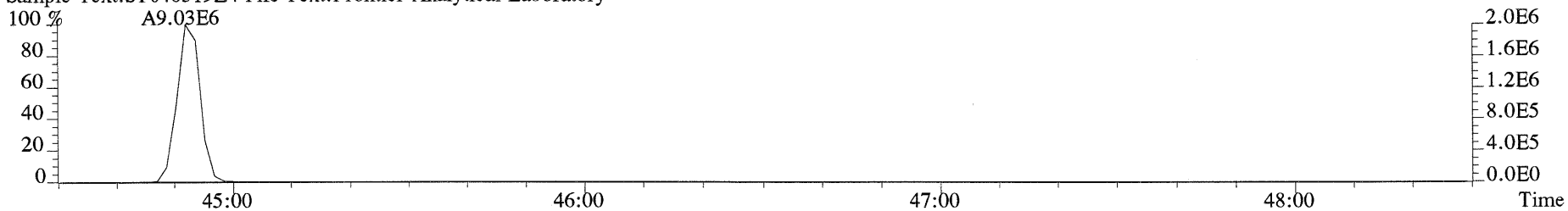
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



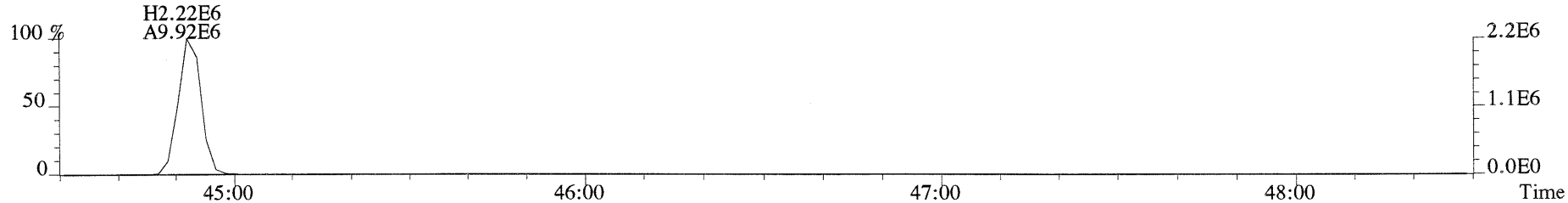
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



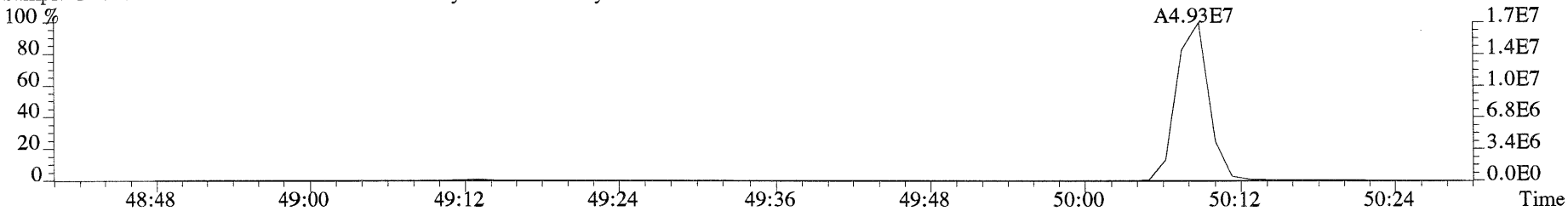
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



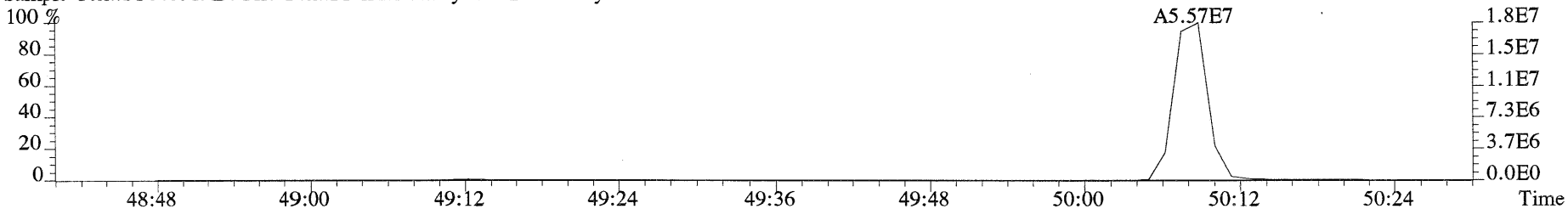
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



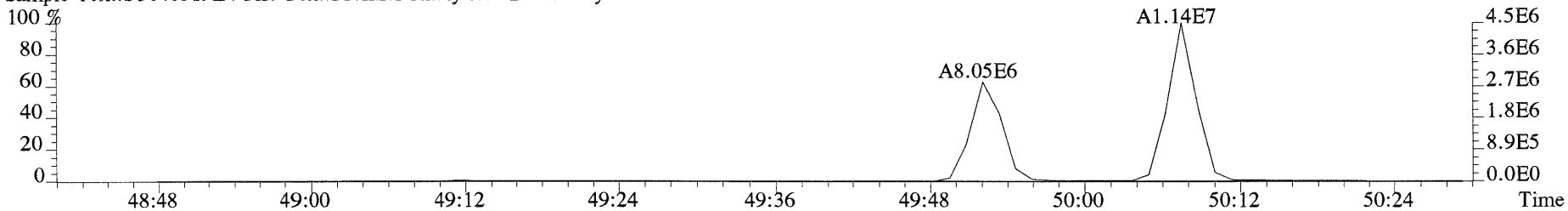
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



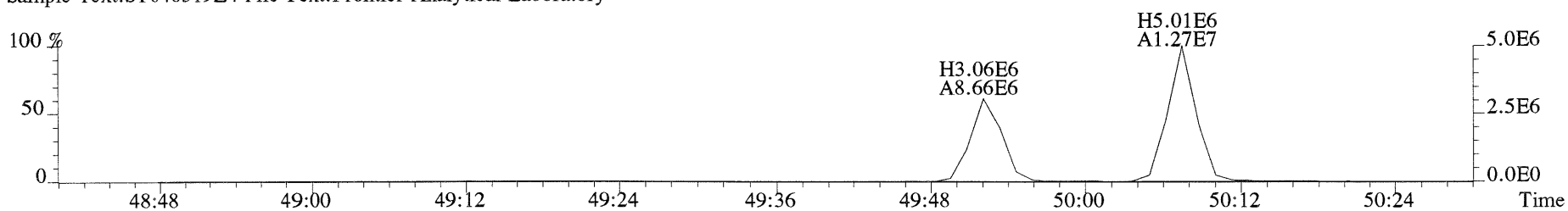
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



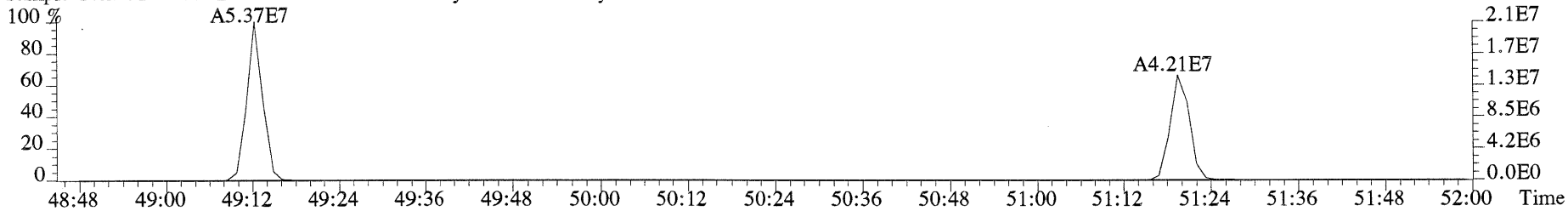
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



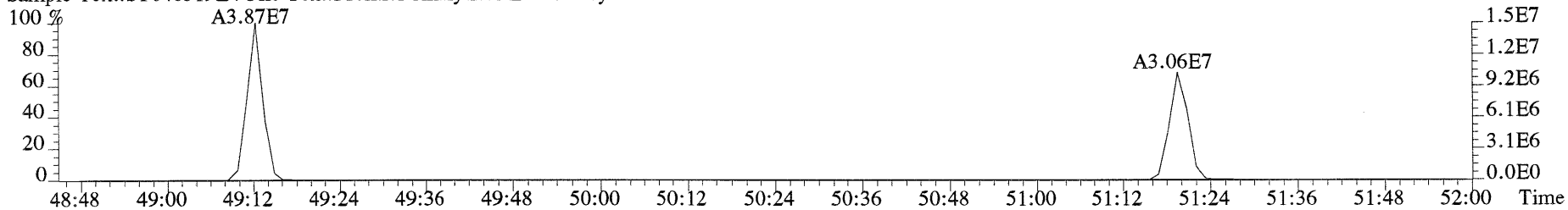
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



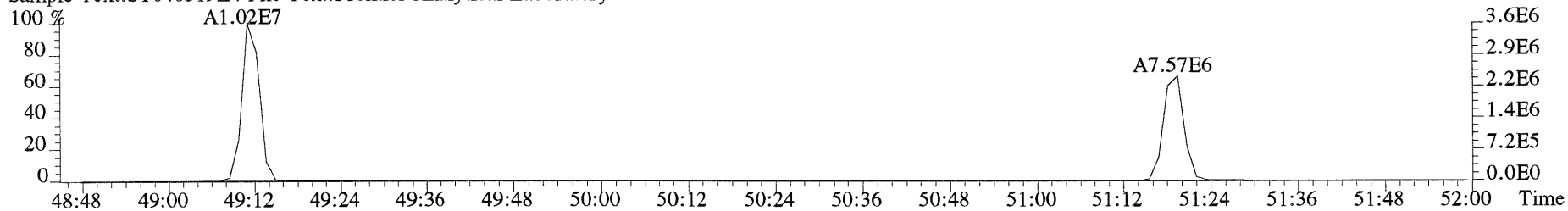
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



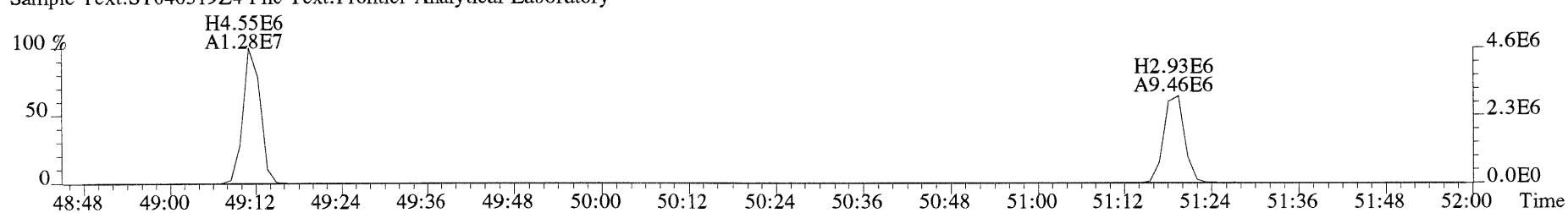
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



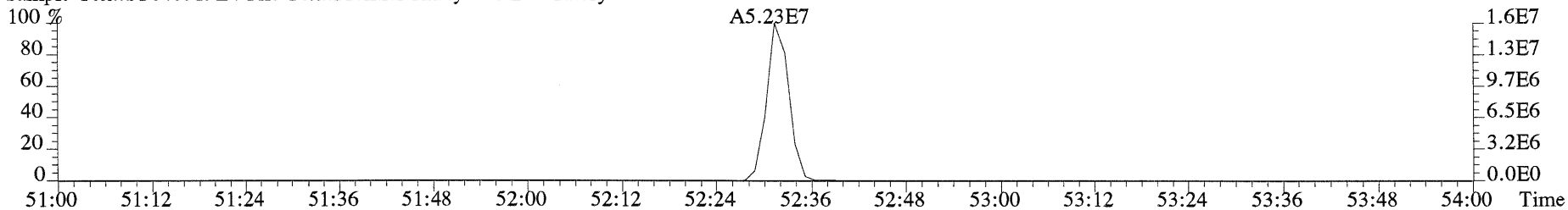
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



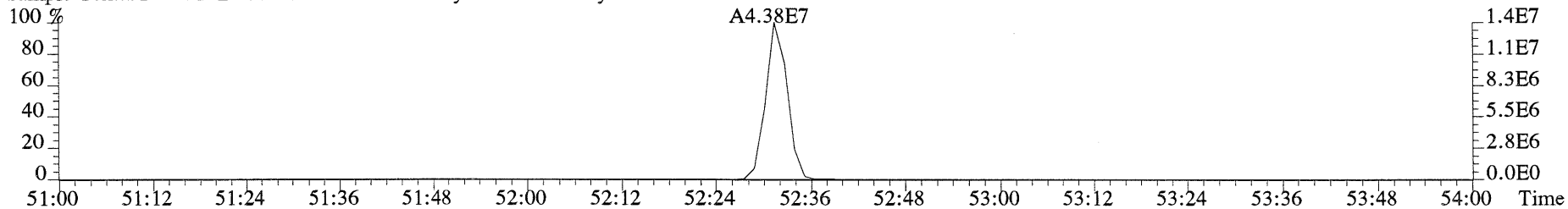
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



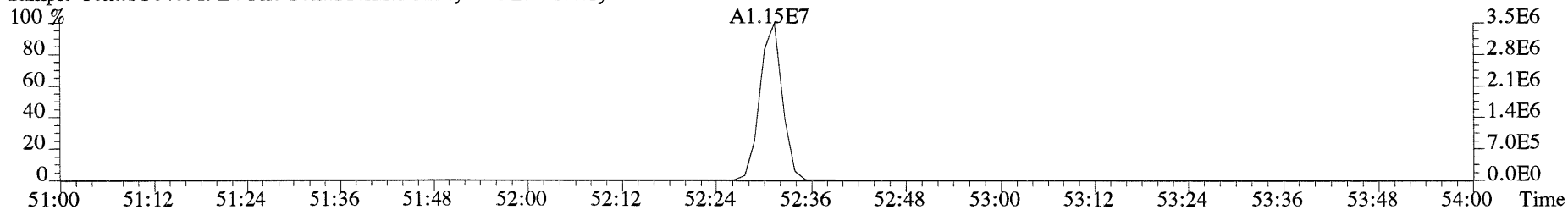
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



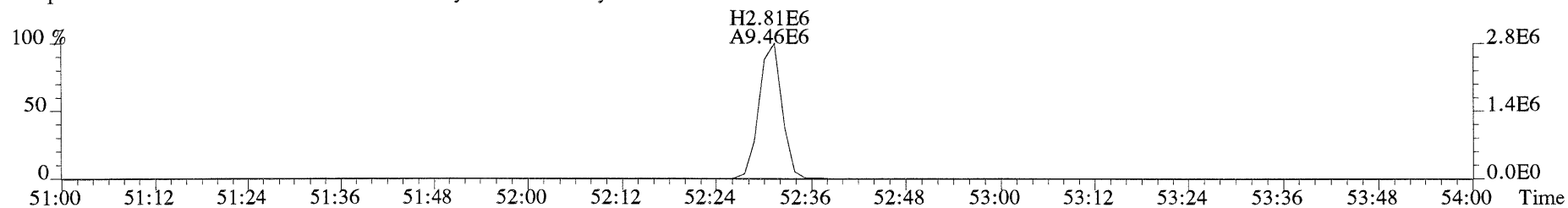
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



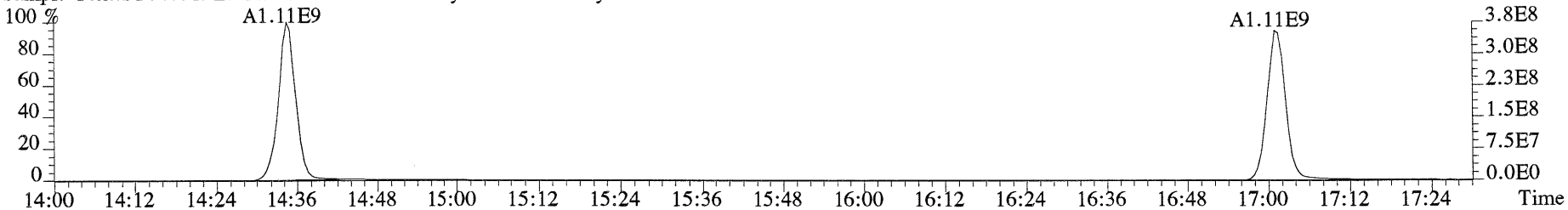
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



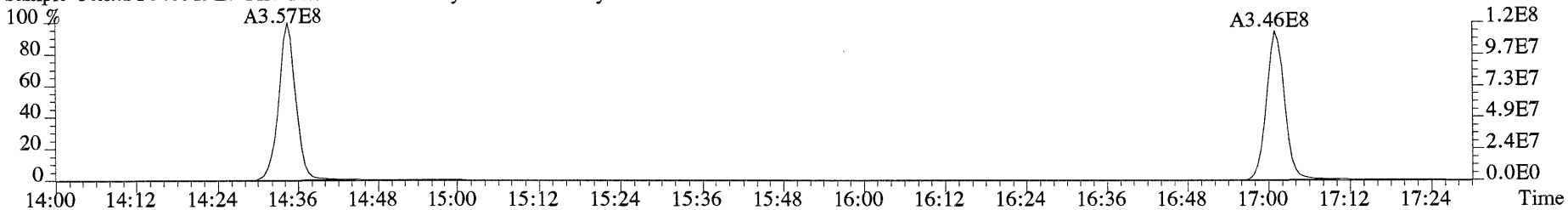
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



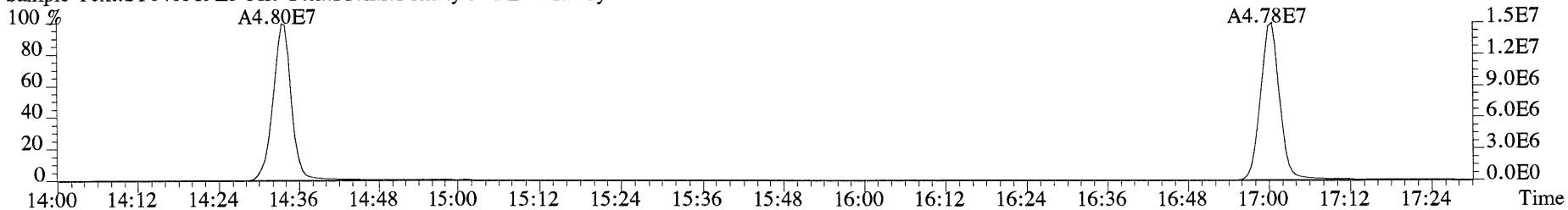
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



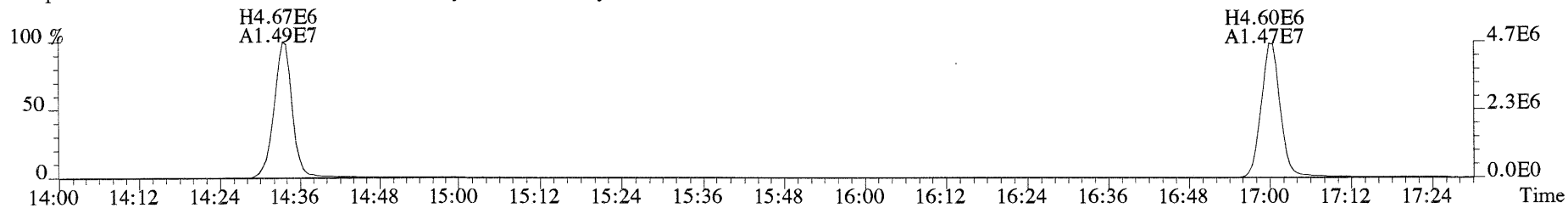
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



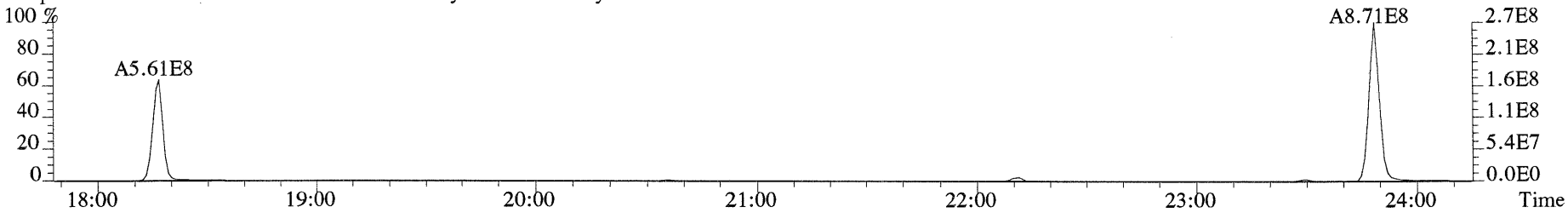
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



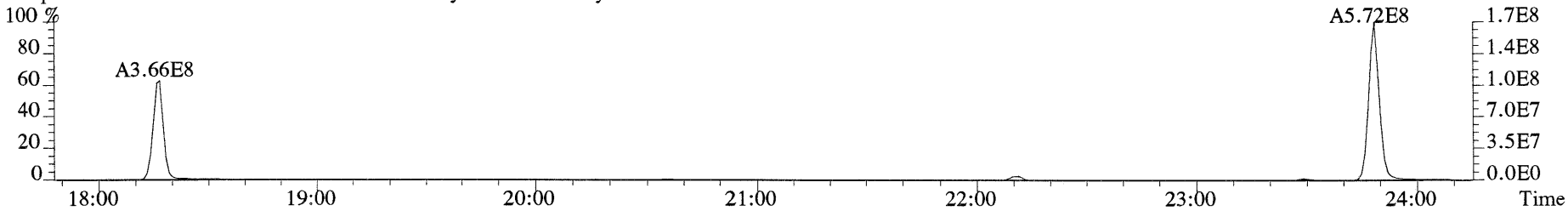
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



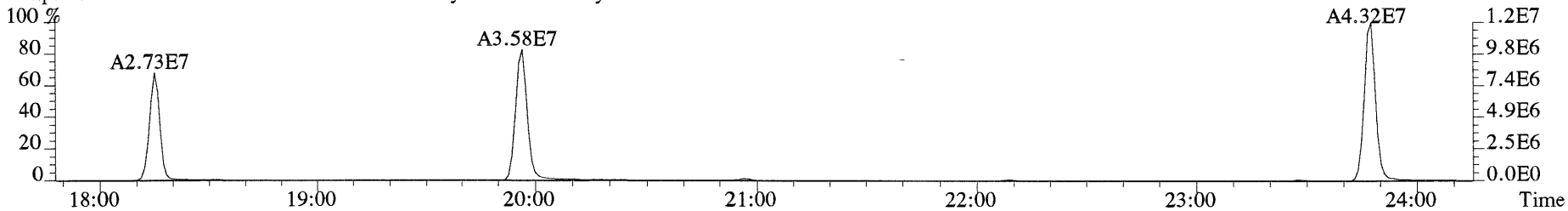
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



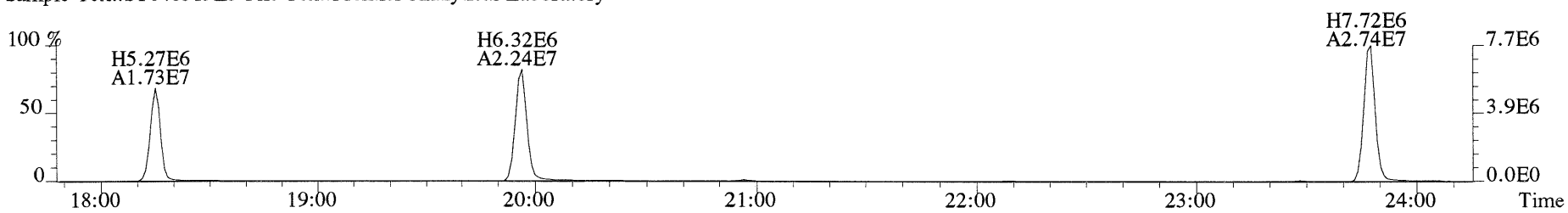
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



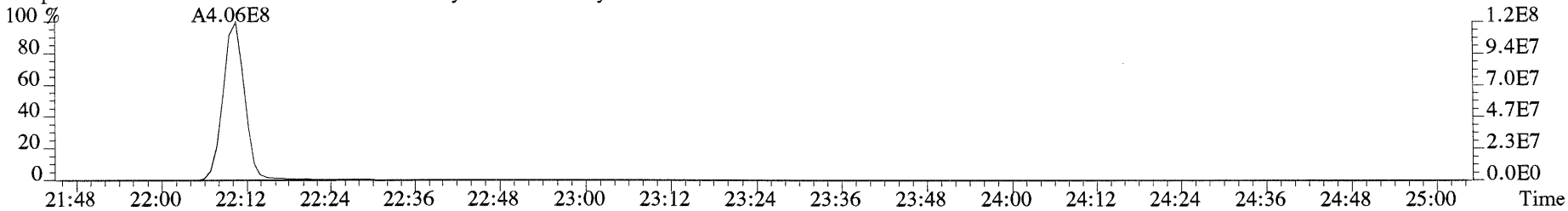
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



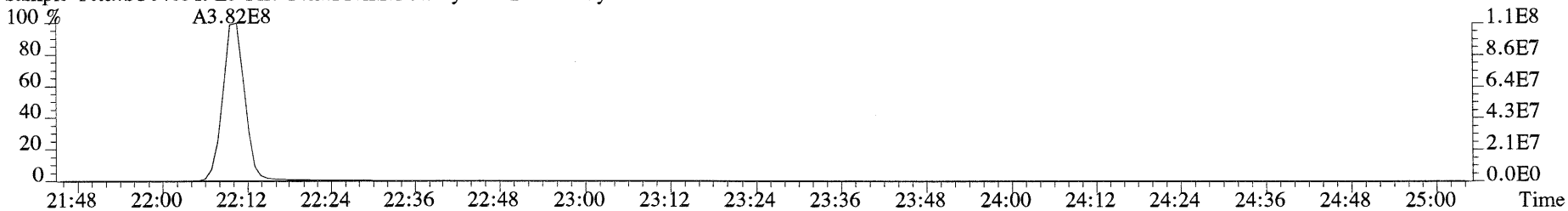
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



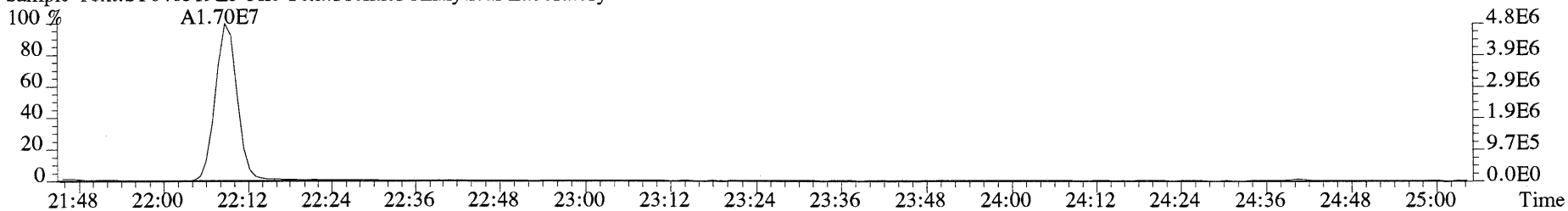
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



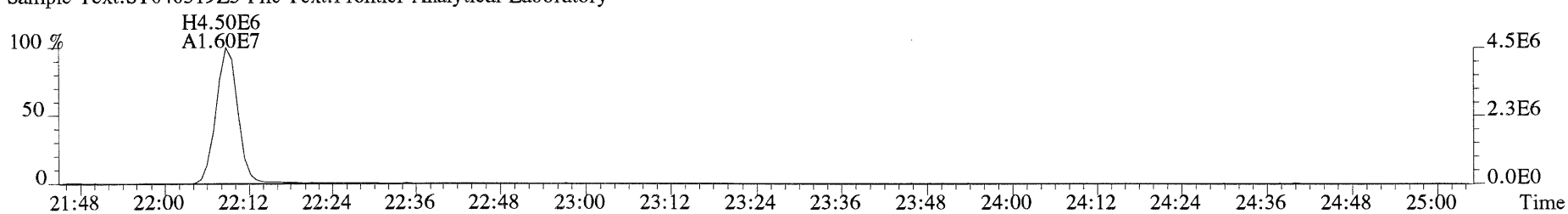
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



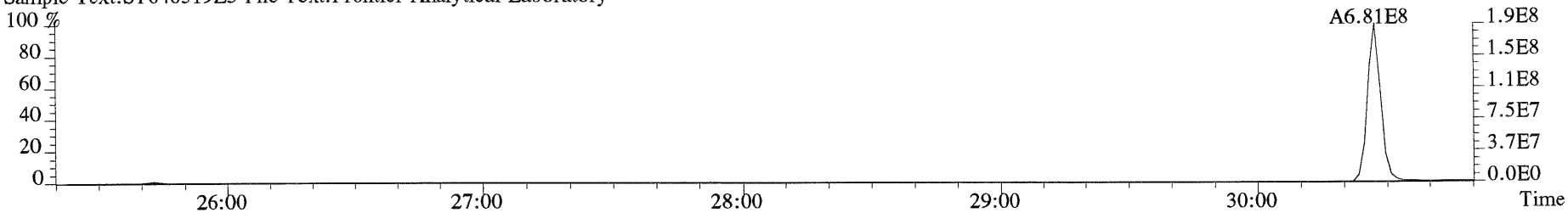
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



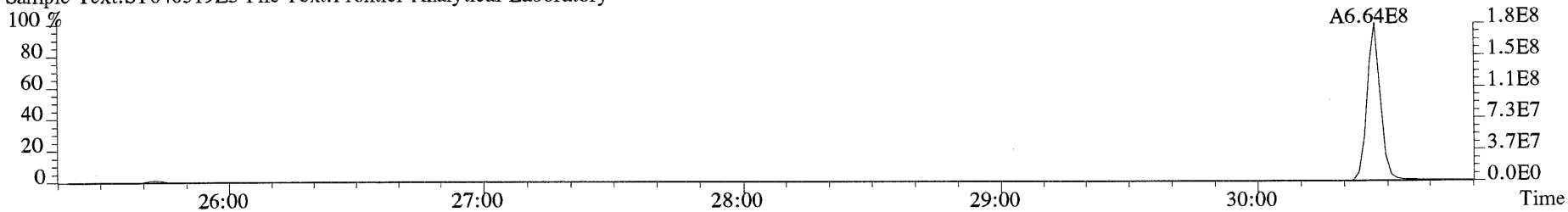
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



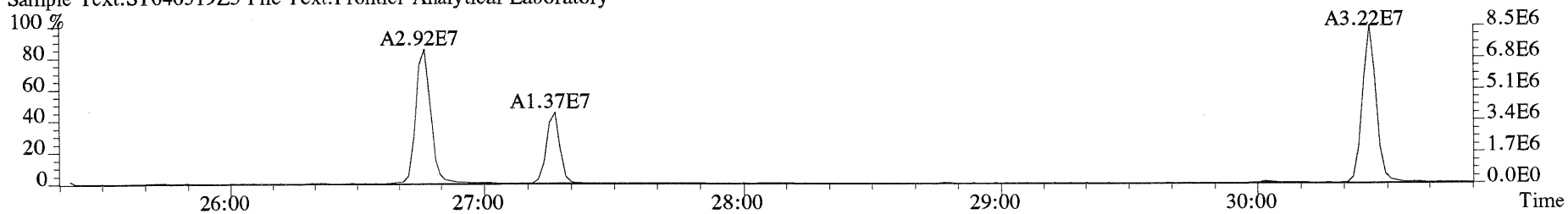
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



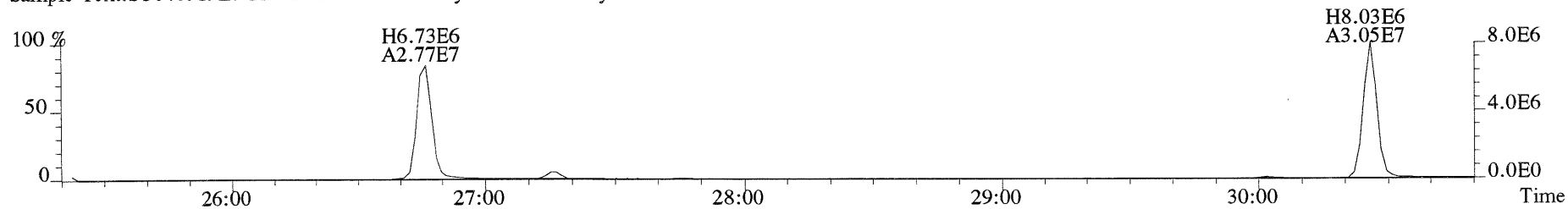
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



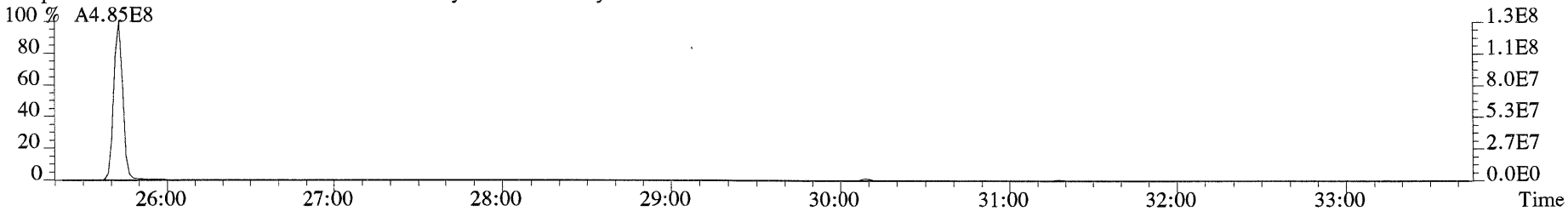
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



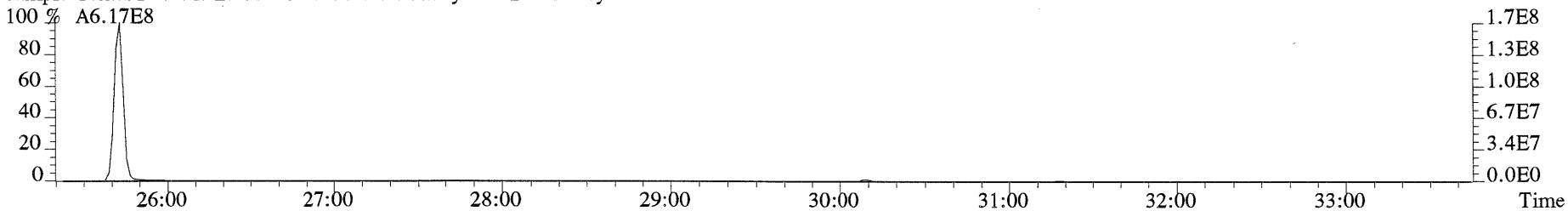
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



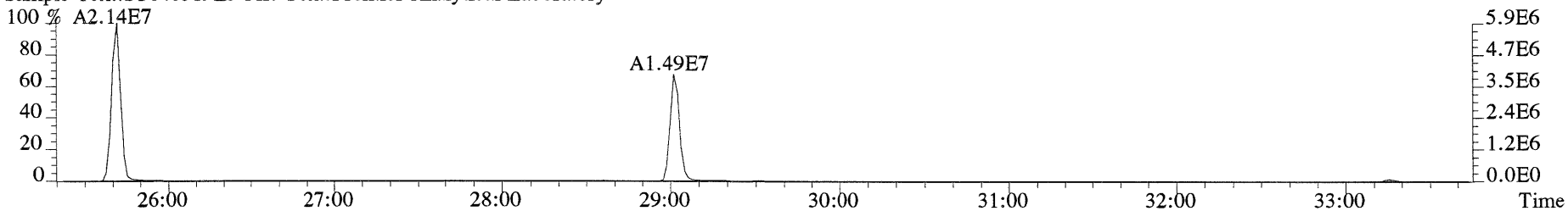
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



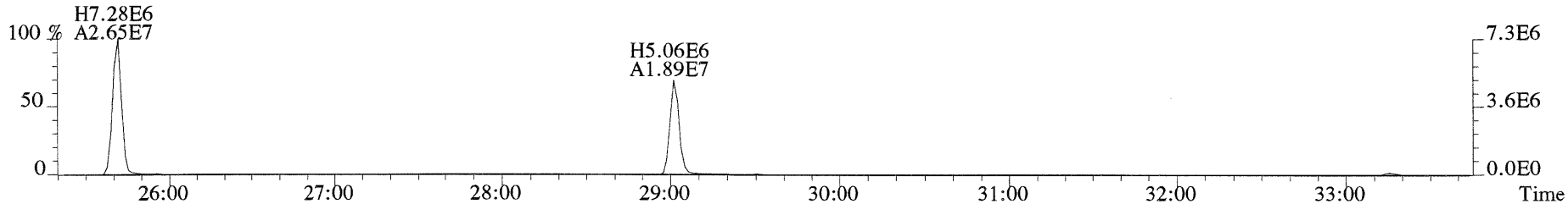
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



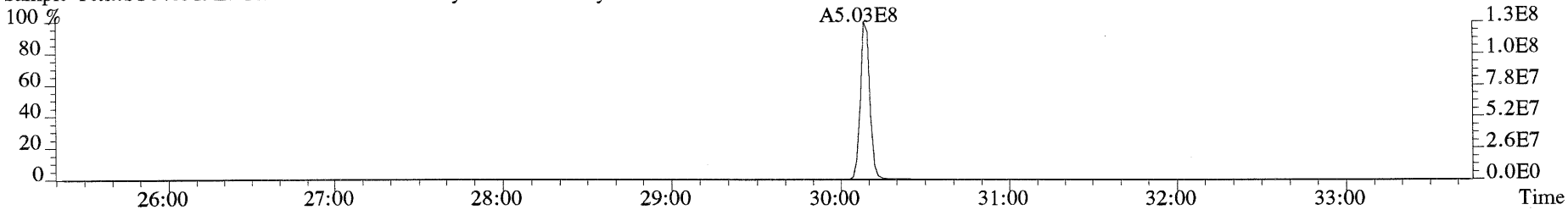
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



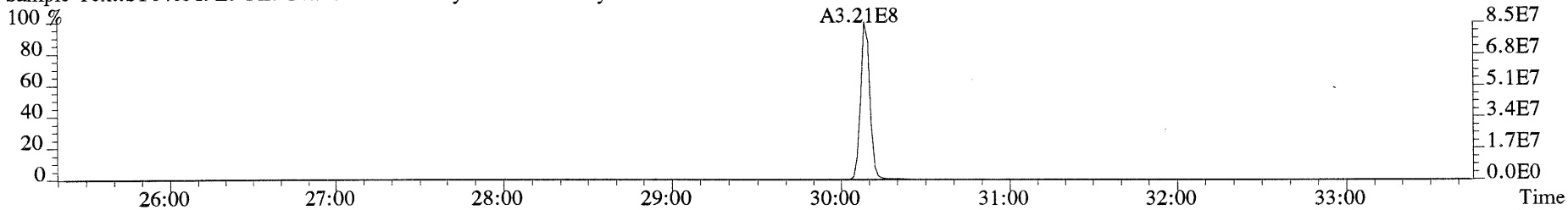
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



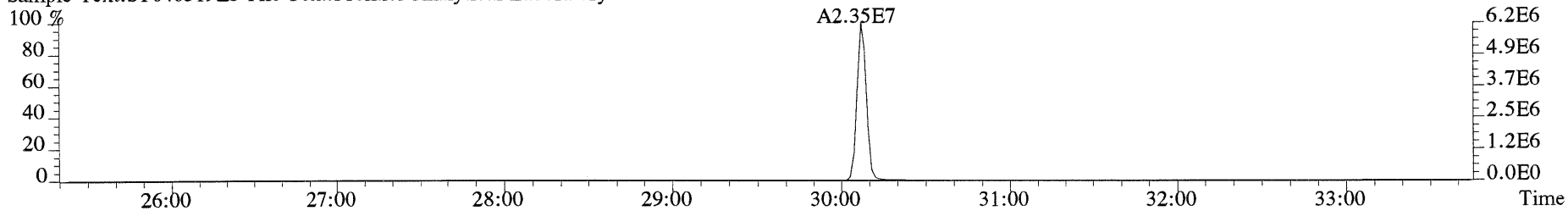
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



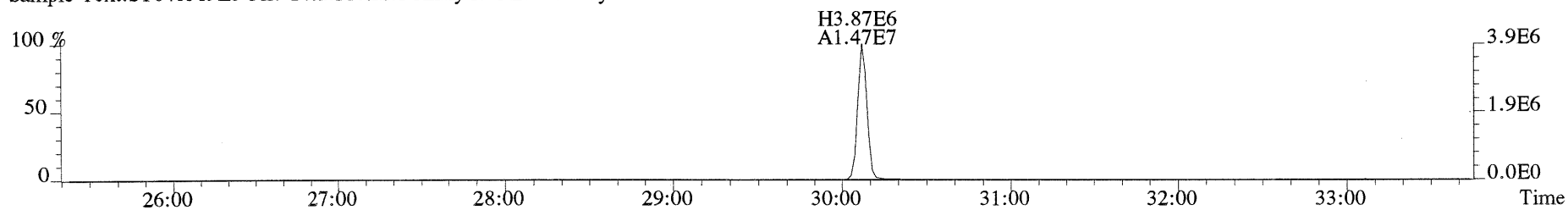
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



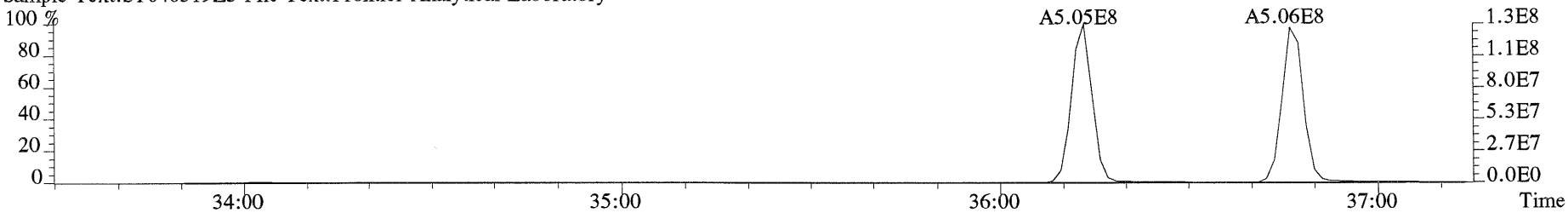
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



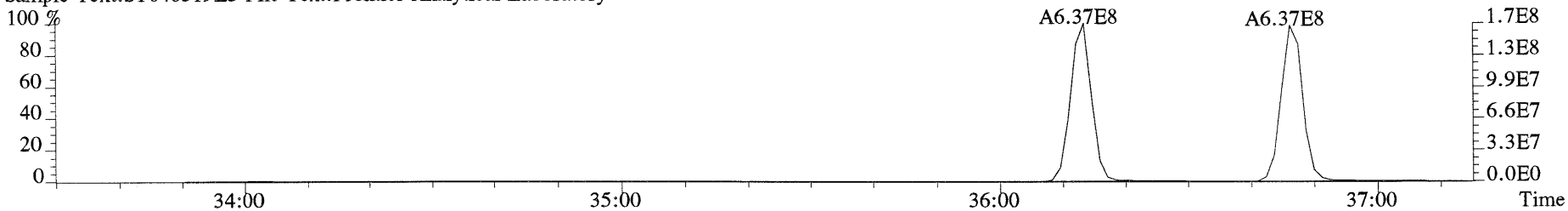
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



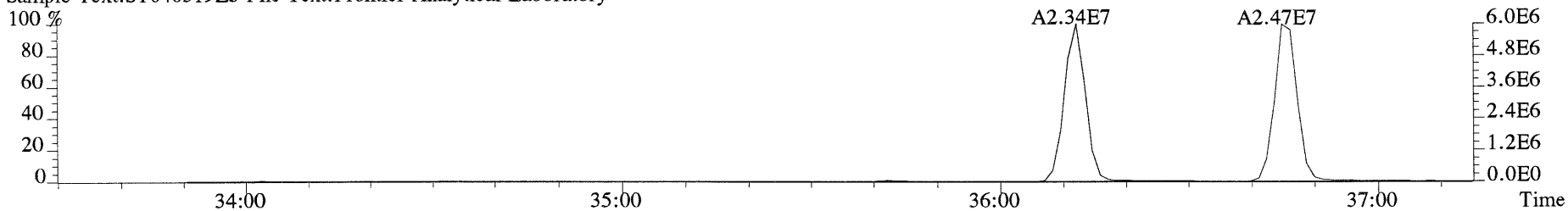
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



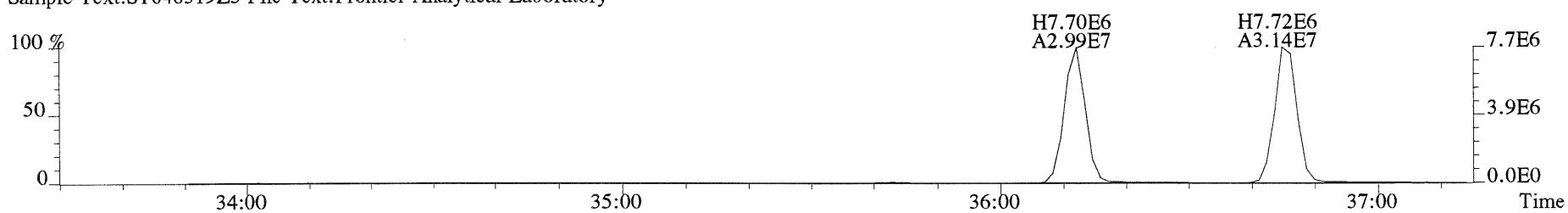
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



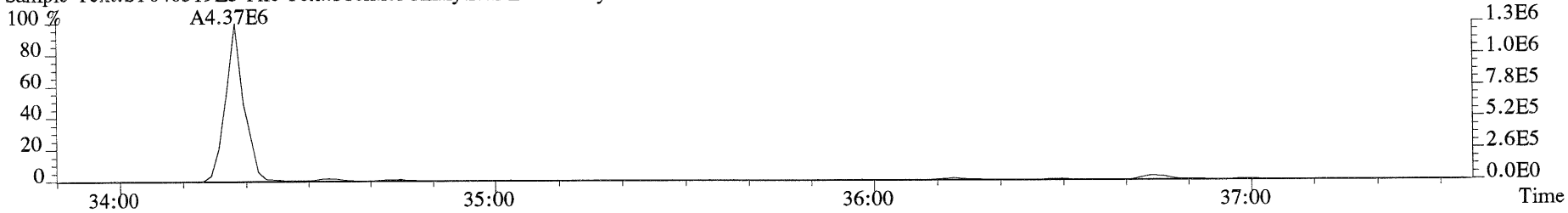
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



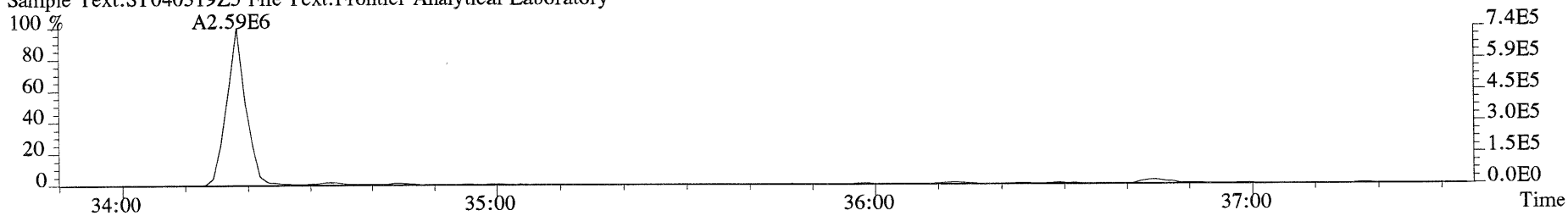
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



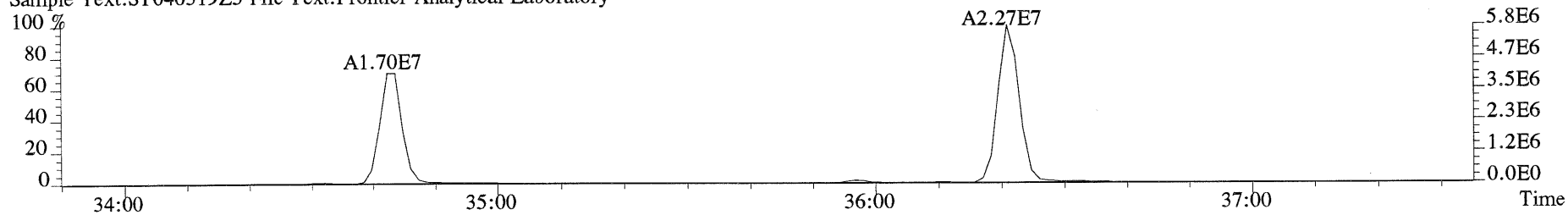
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



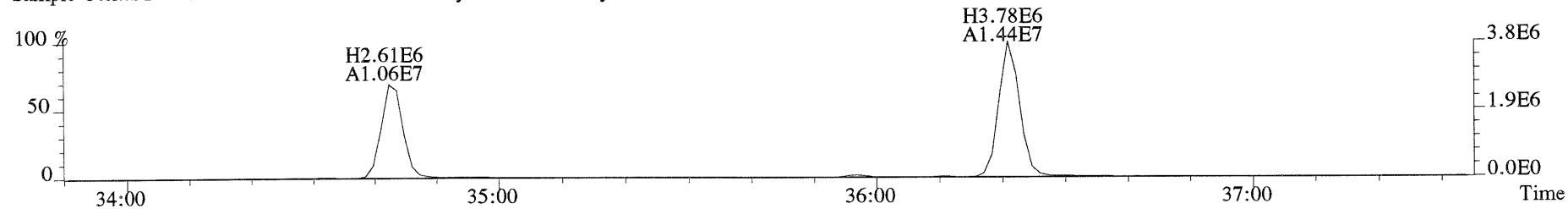
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



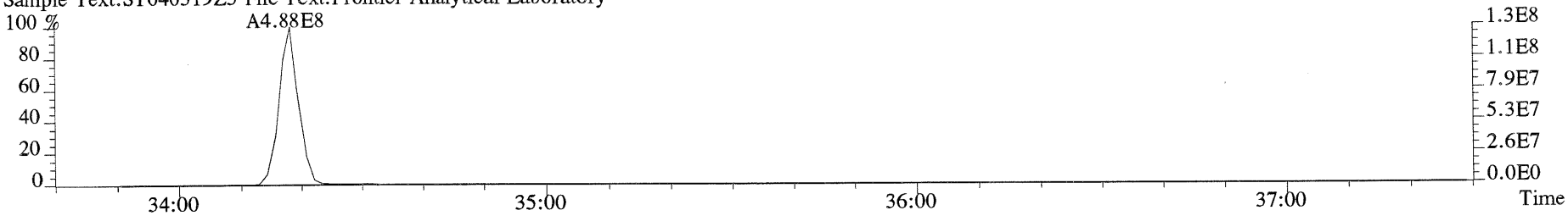
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



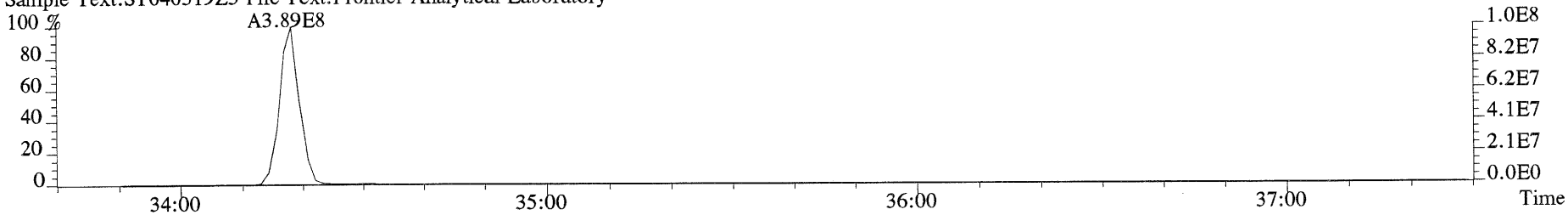
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



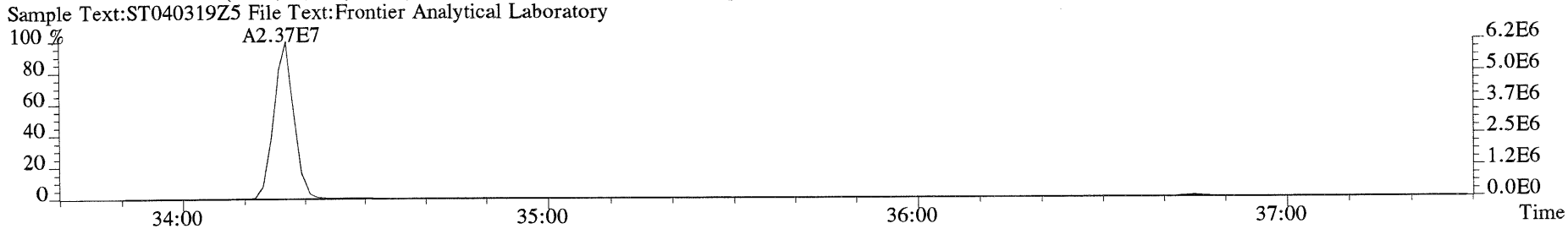
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



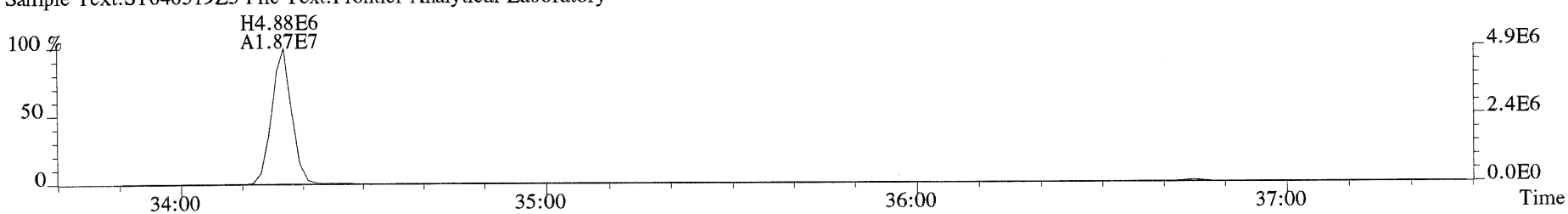
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



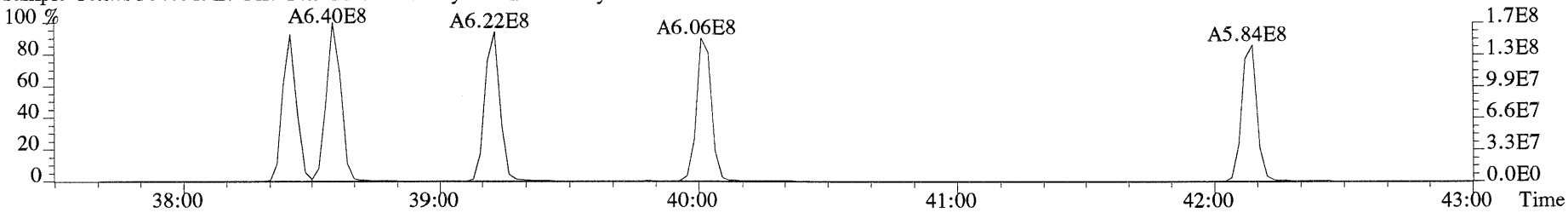
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



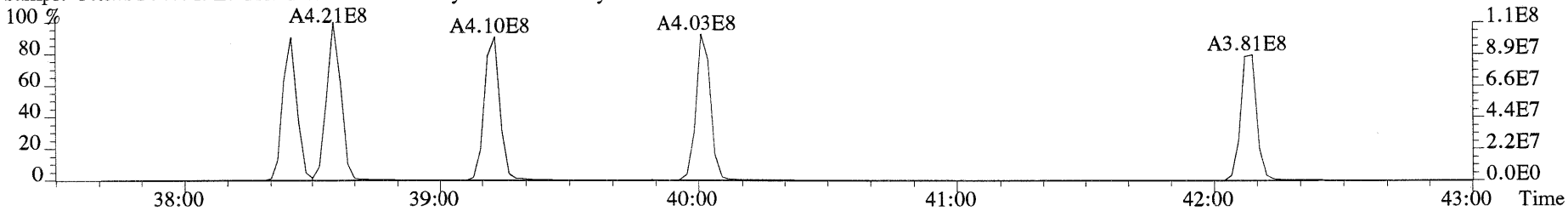
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



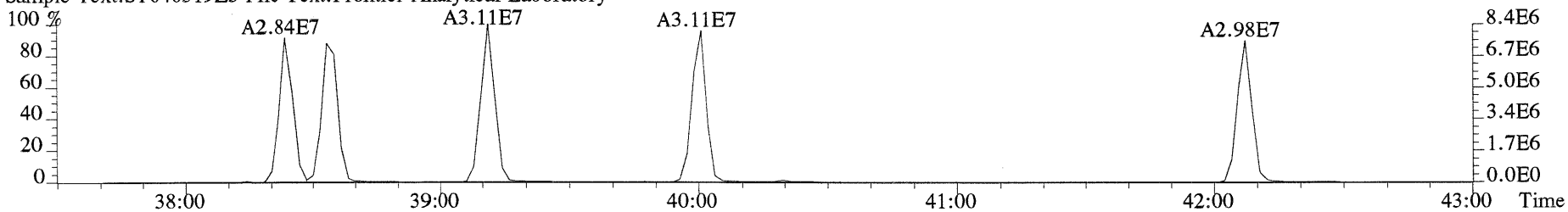
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



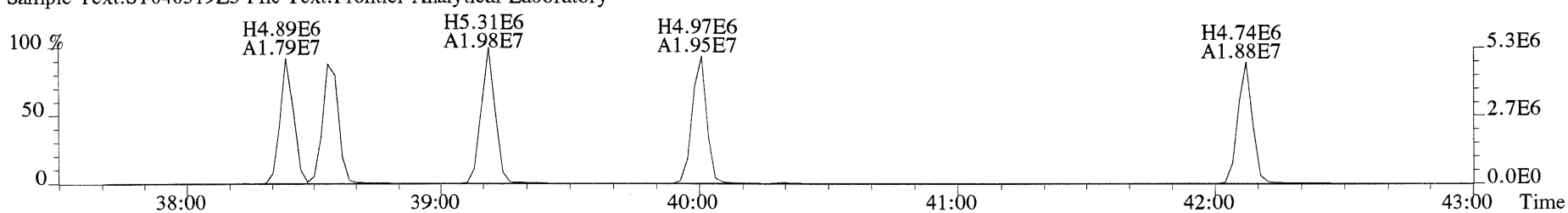
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



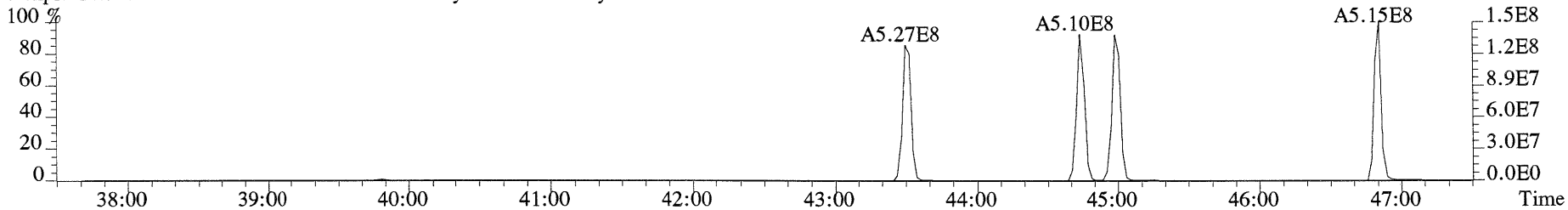
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



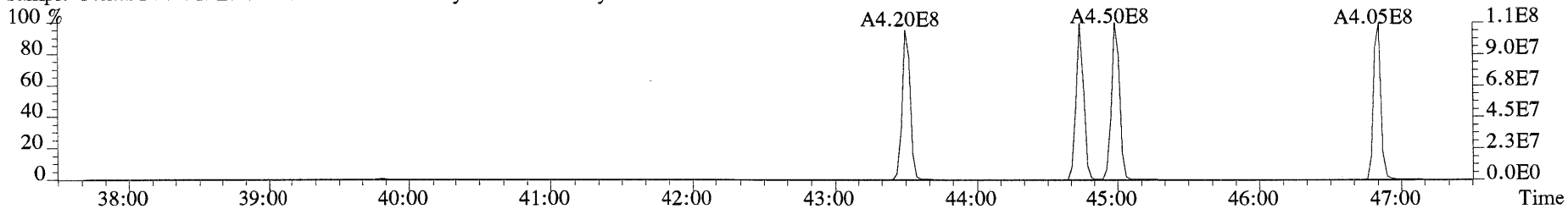
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



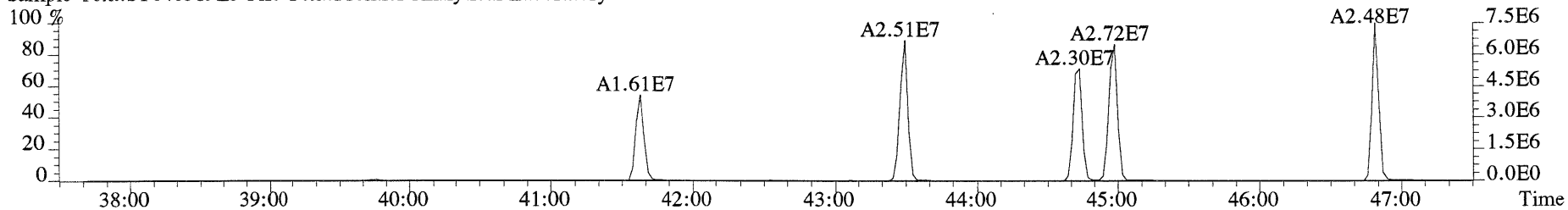
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



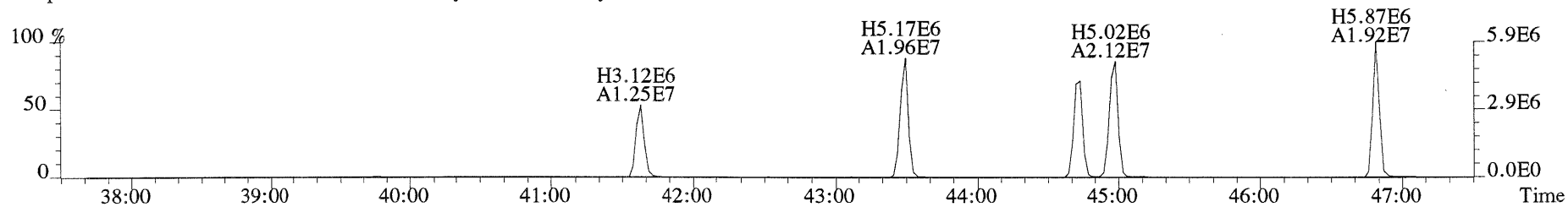
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



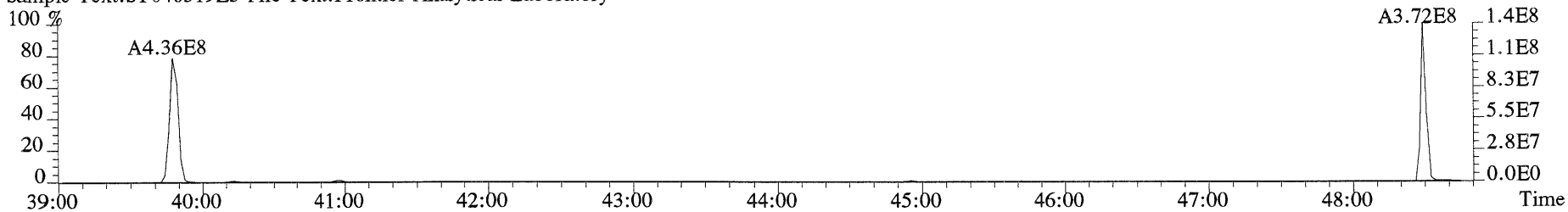
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



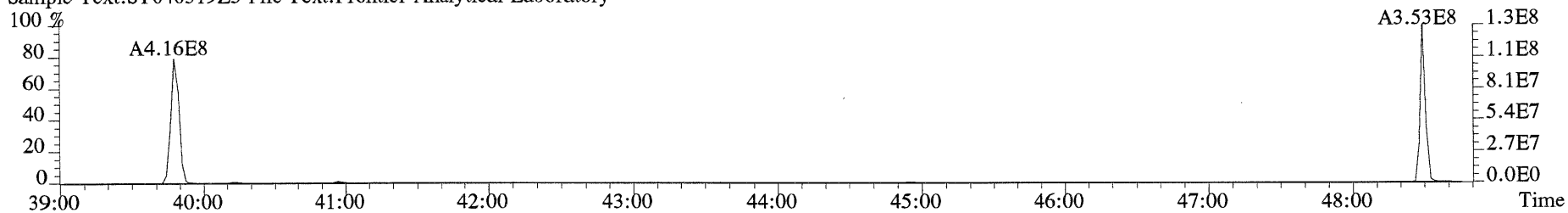
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



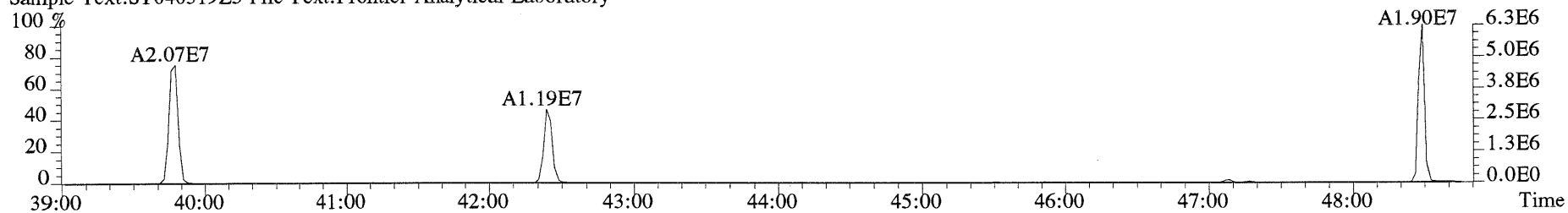
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



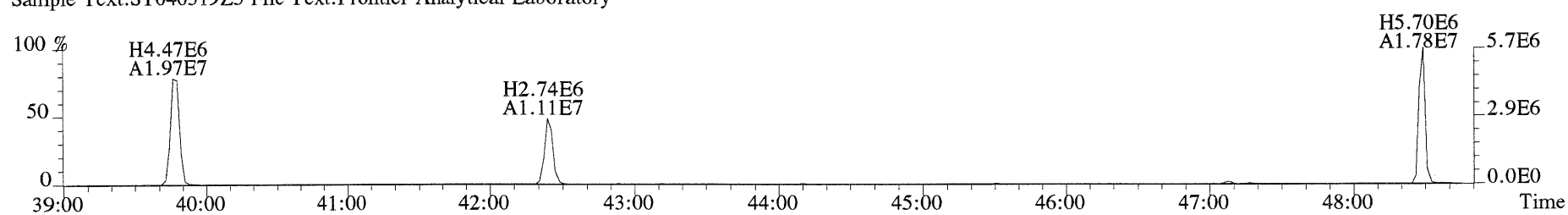
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



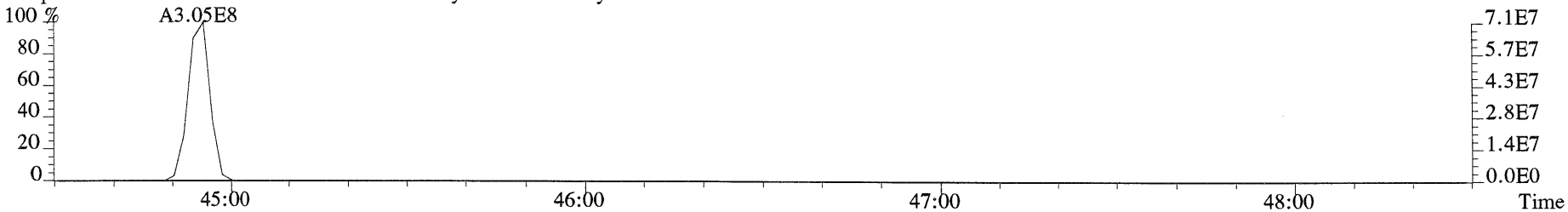
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



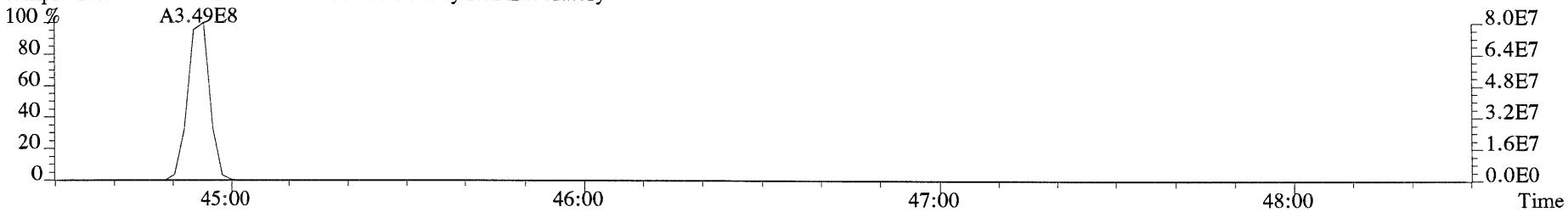
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



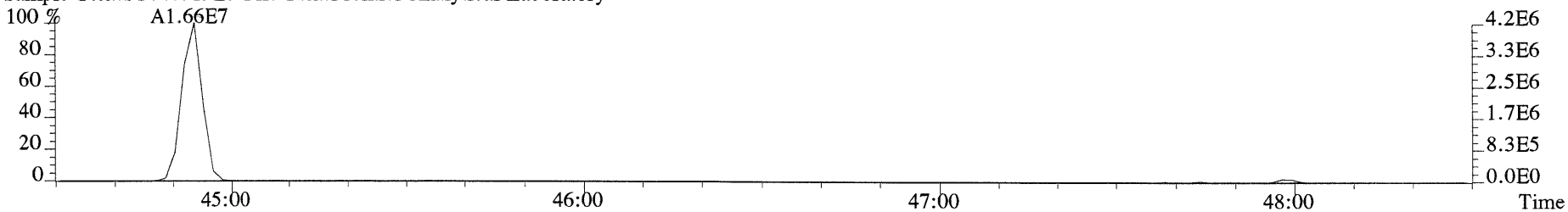
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



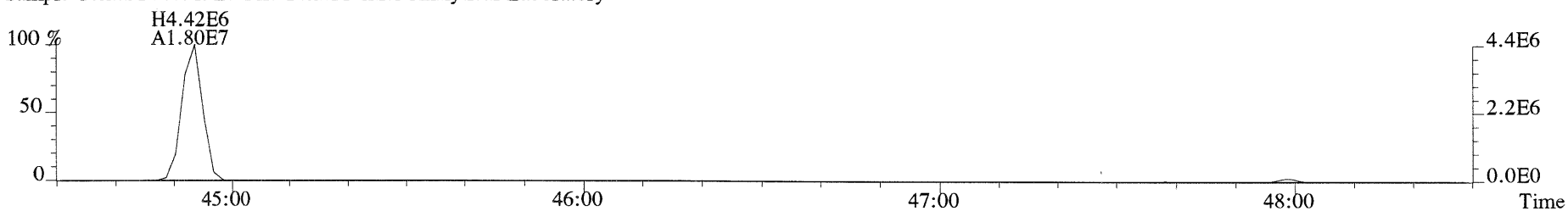
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



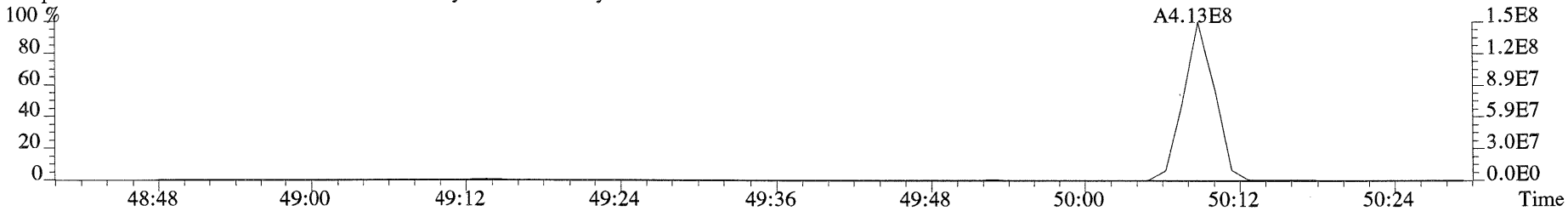
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



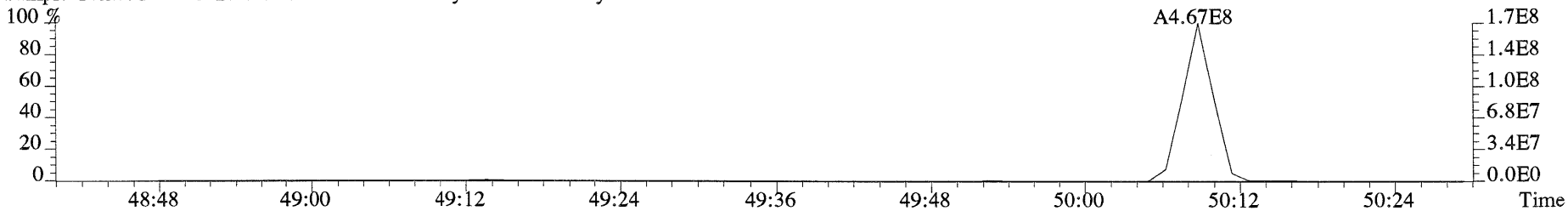
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



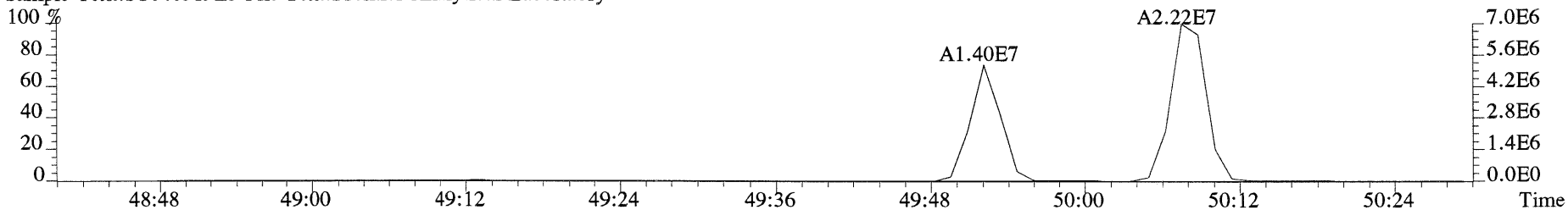
File:03APR19Z #1-272 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



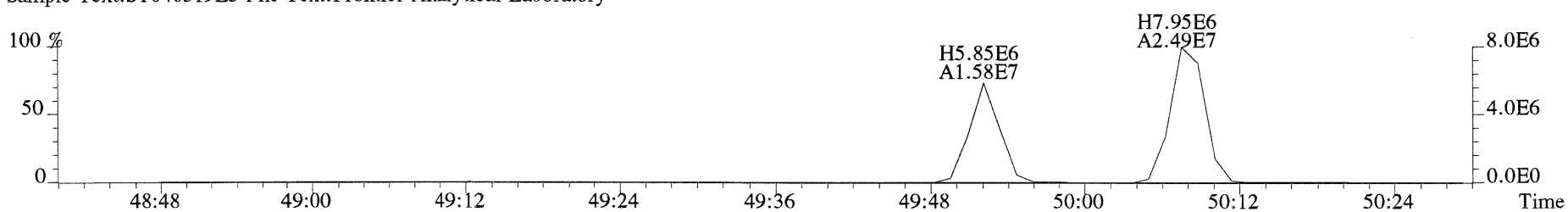
File:03APR19Z #1-273 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



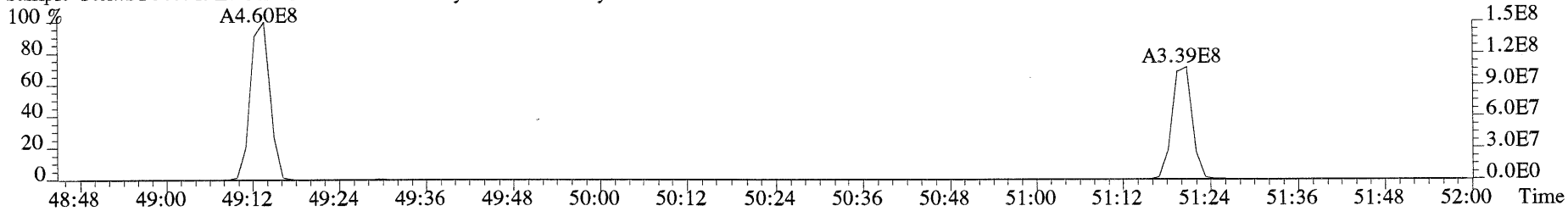
File:03APR19Z #1-273 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



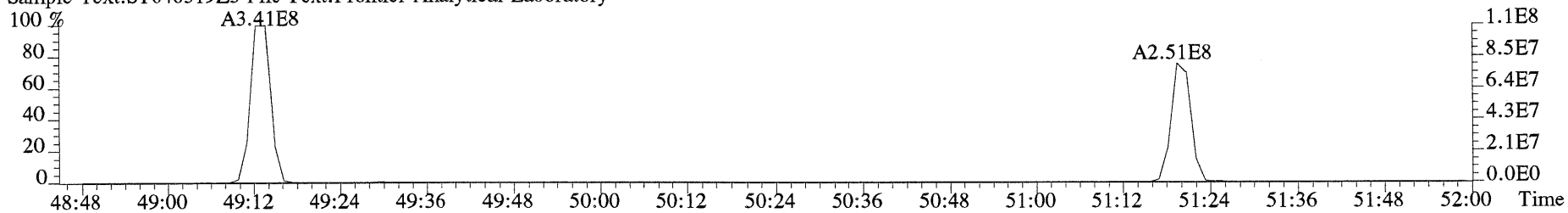
File:03APR19Z #1-273 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



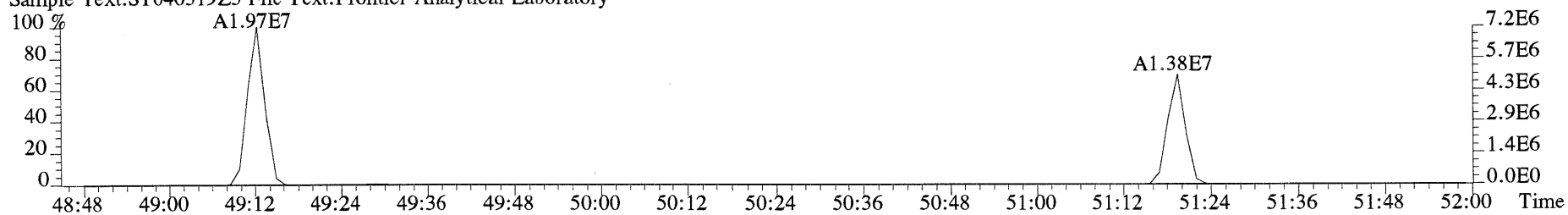
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



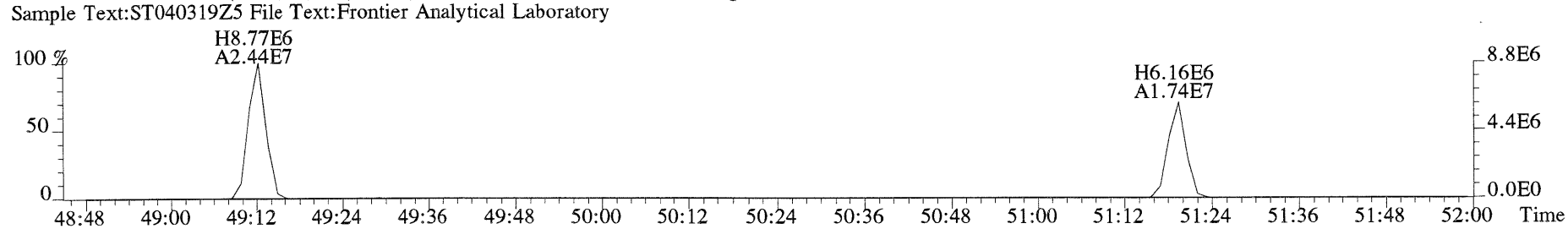
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



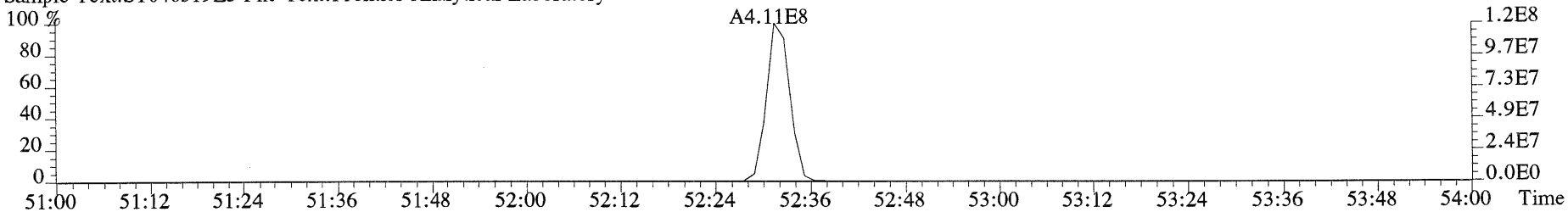
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



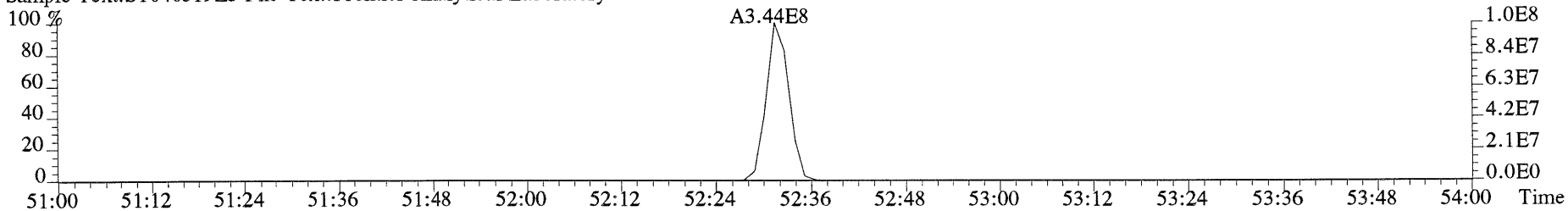
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



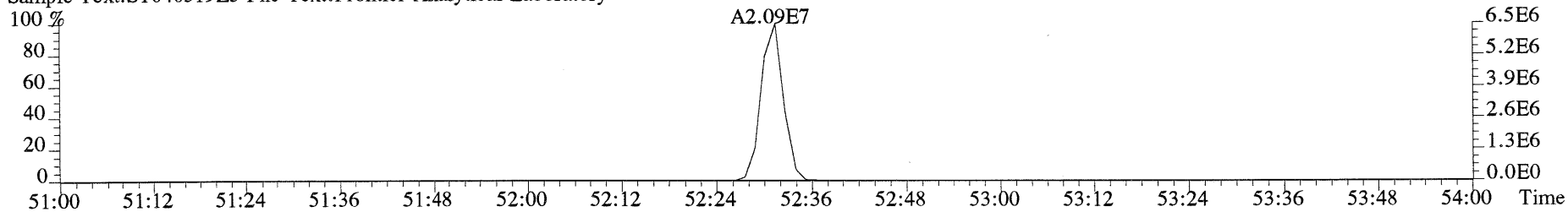
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



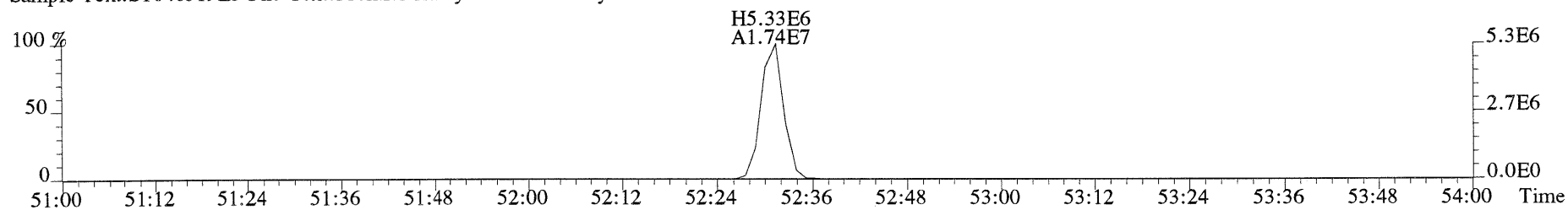
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



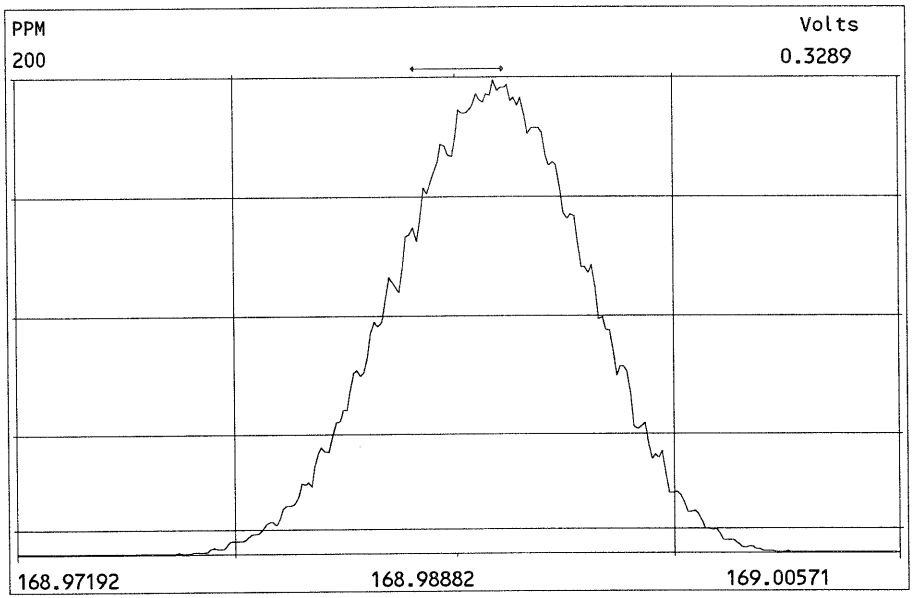
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory

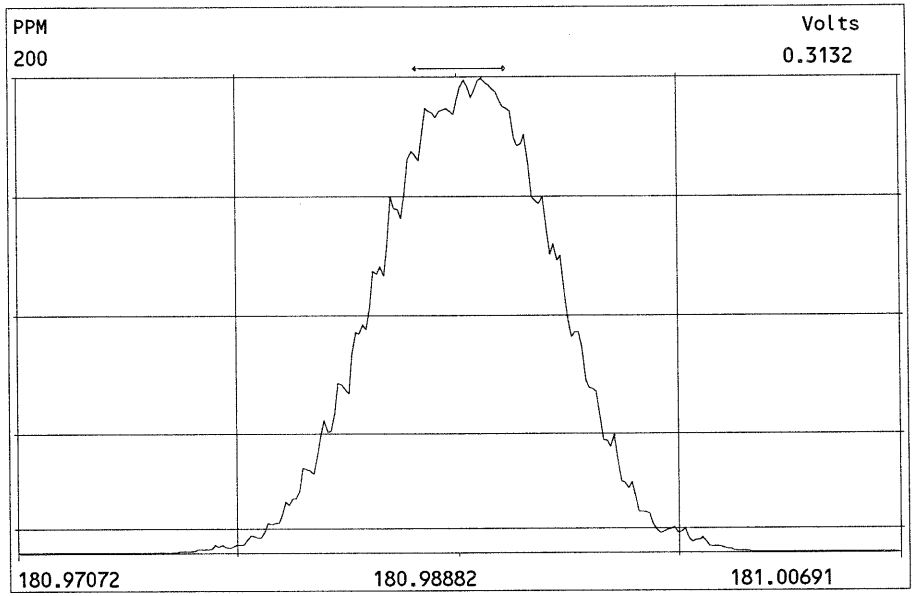


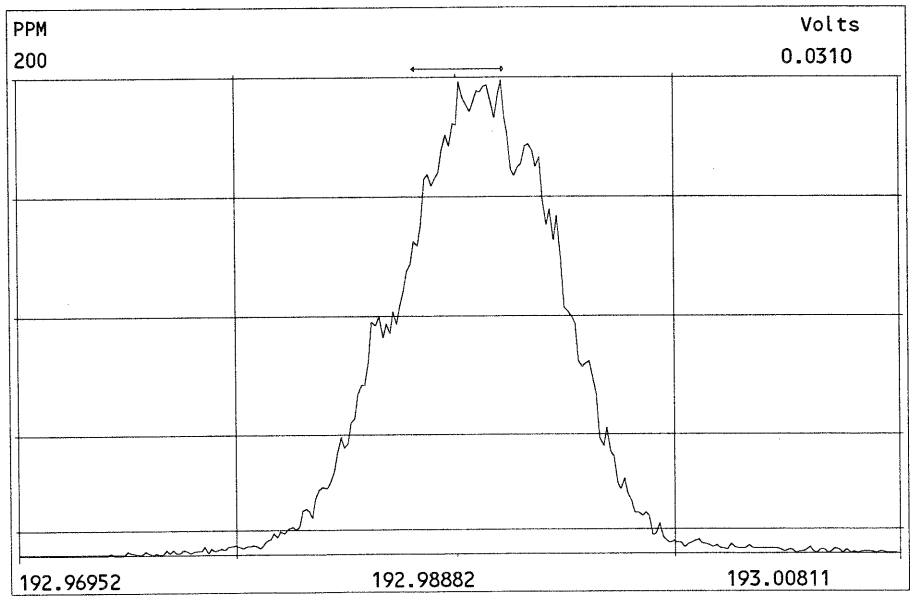
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory

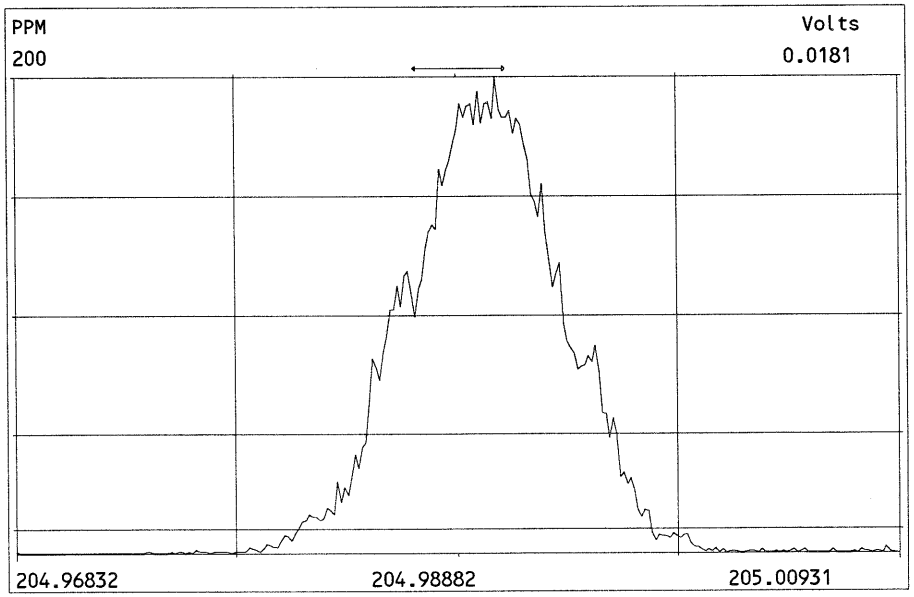


Peak Locate Examination: 3-APR-2019:21:48 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK 78

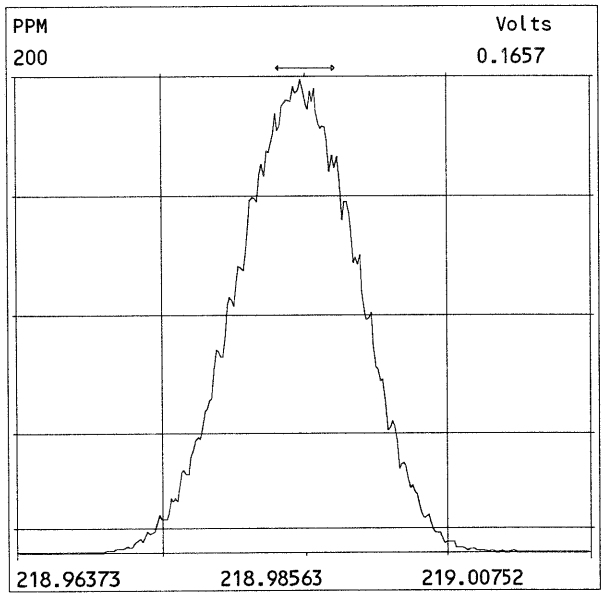


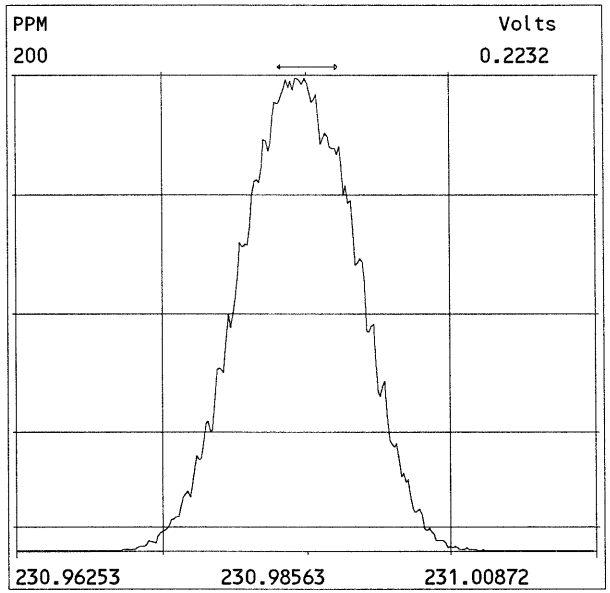


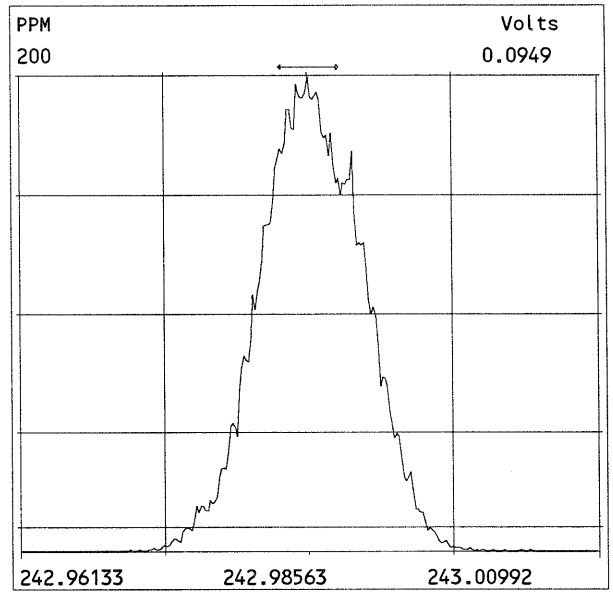


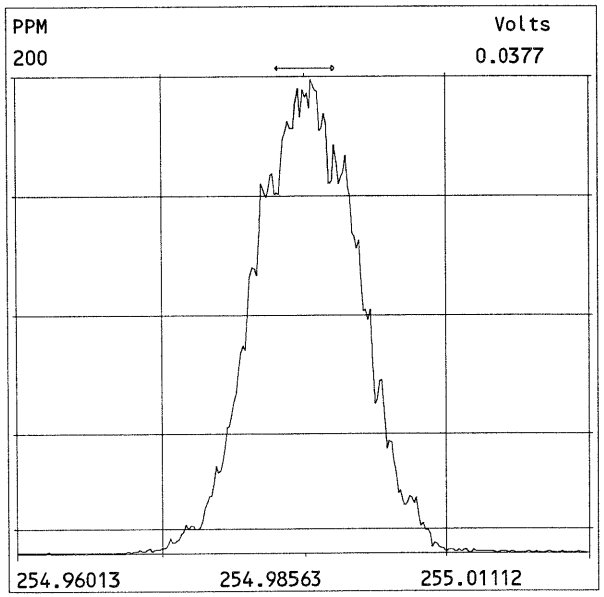


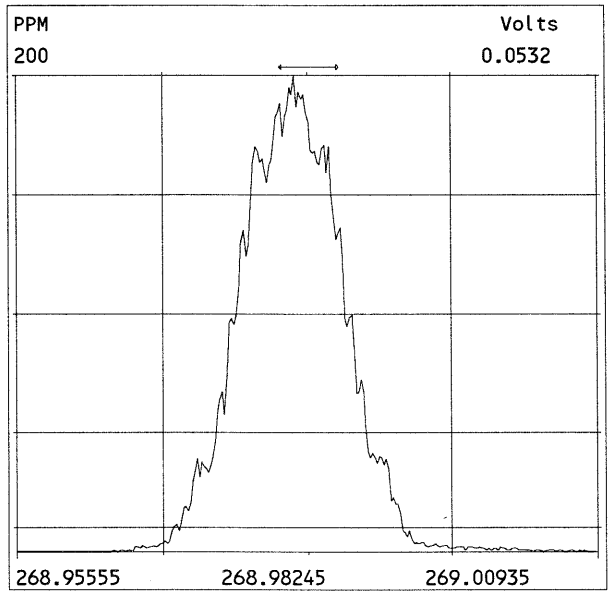
Peak Locate Examination: 3-APR-2019:21:50 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK 78

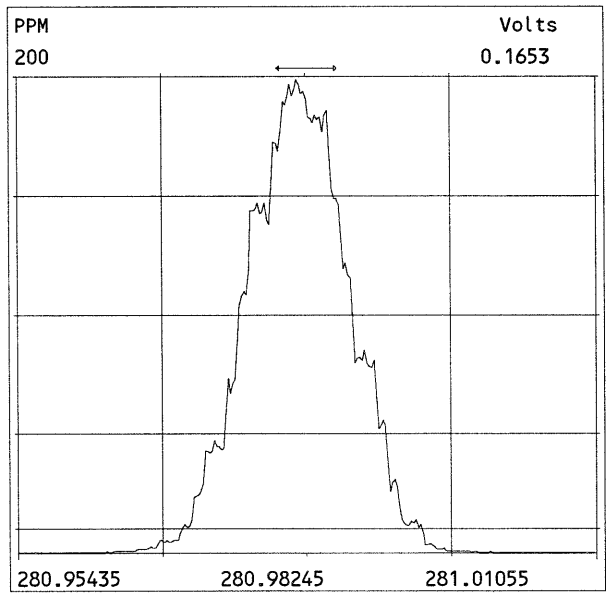




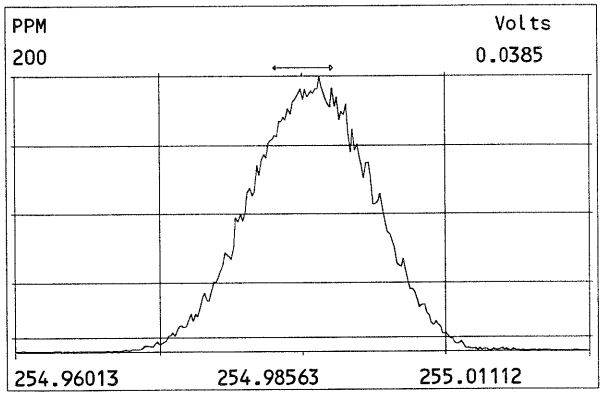


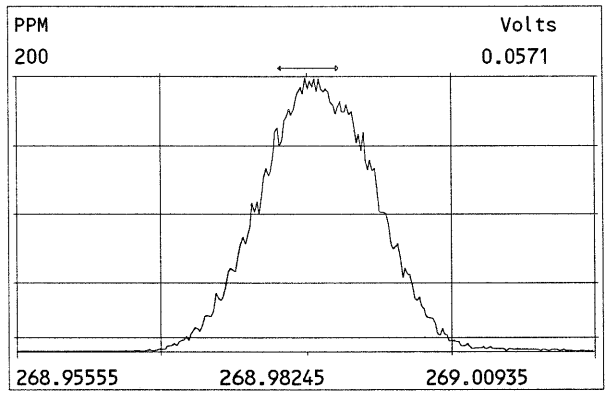


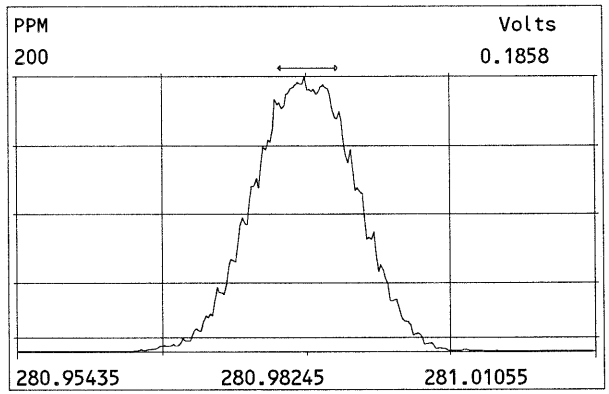


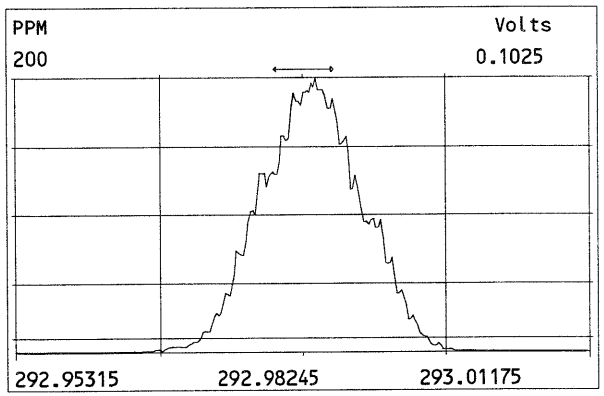


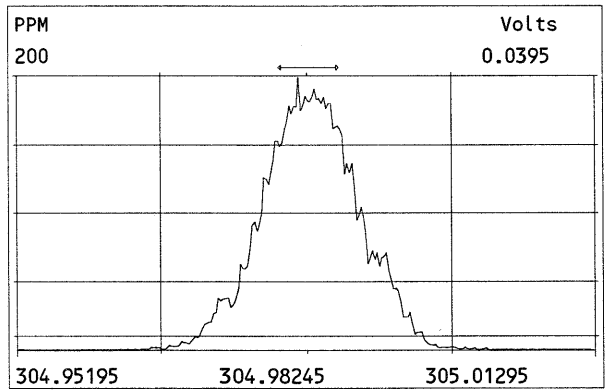
Peak Locate Examination: 3-APR-2019:21:53 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK78

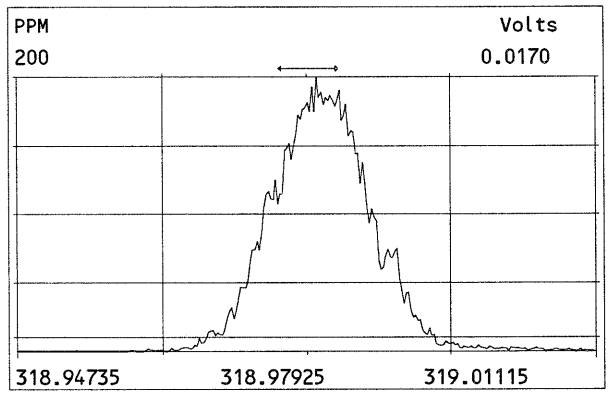


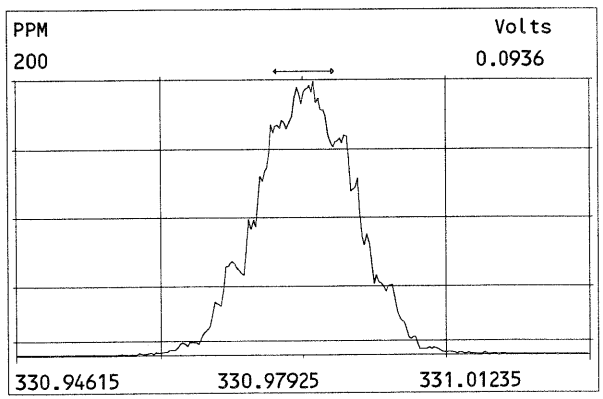


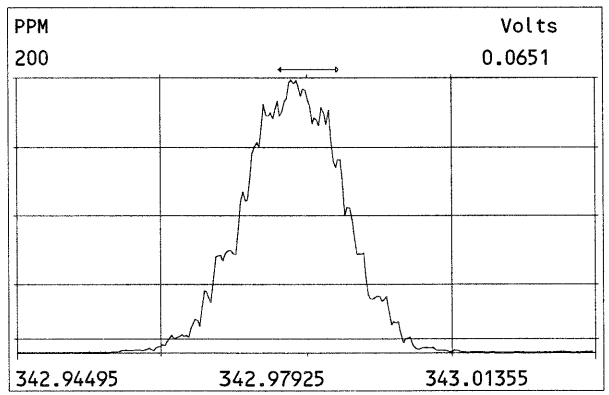




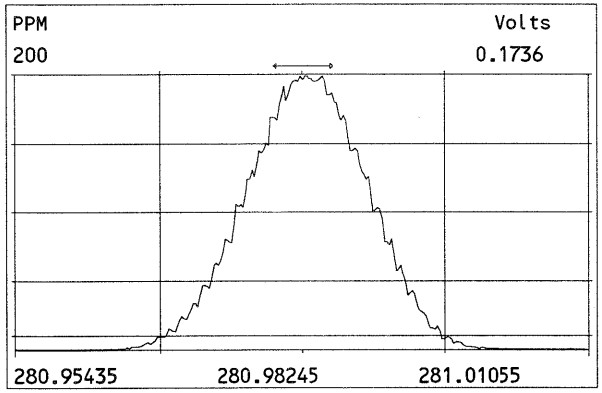


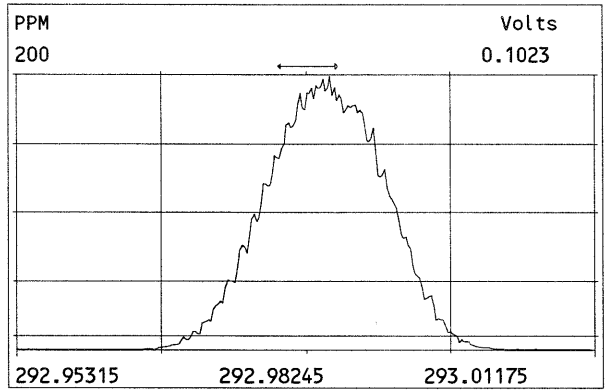


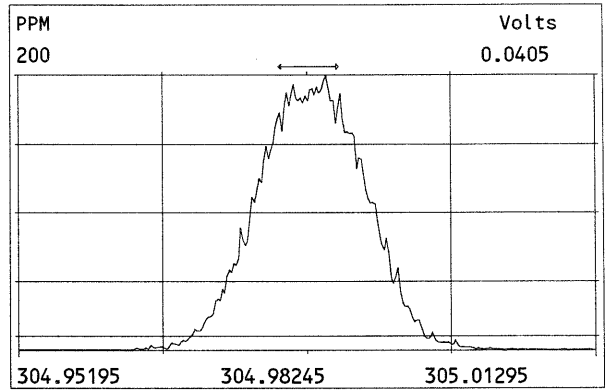


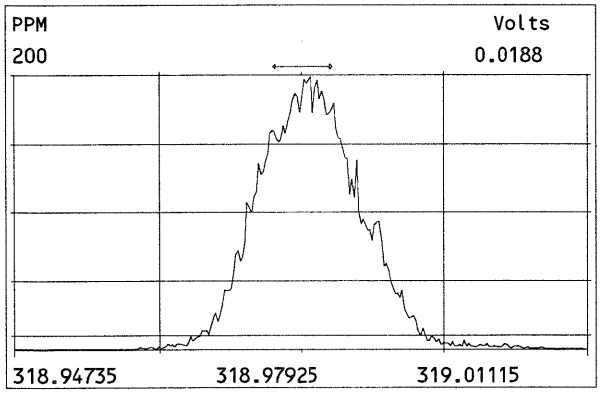


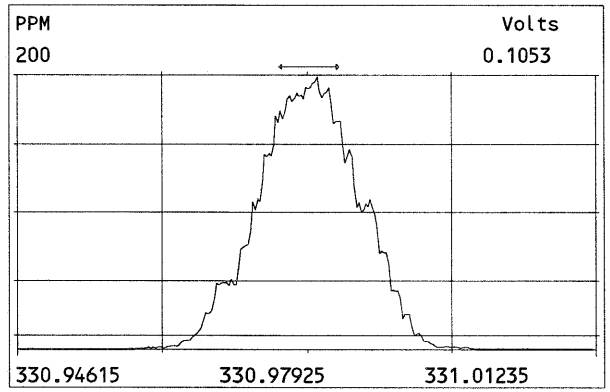
Peak Locate Examination: 3-APR-2019:21:55 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK 78

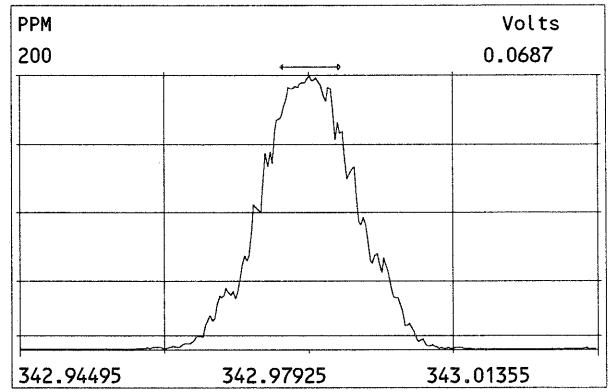


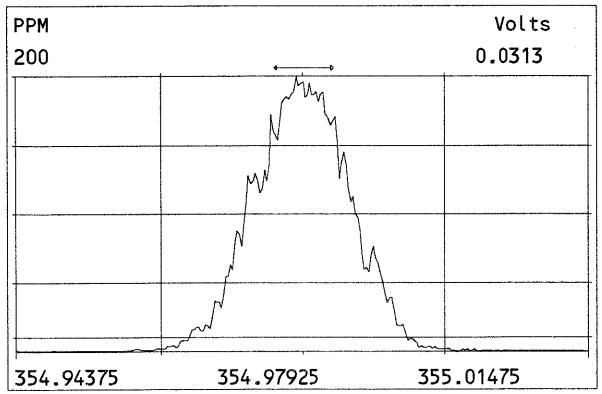


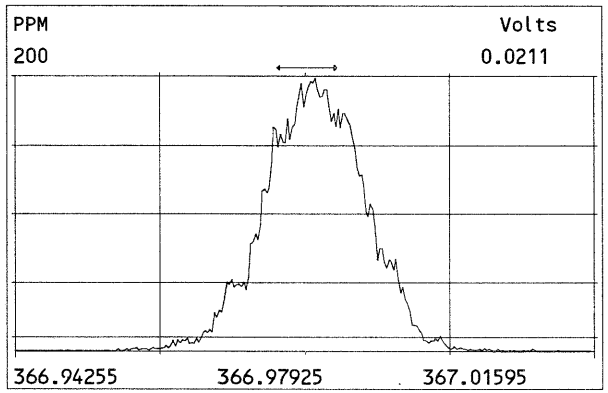


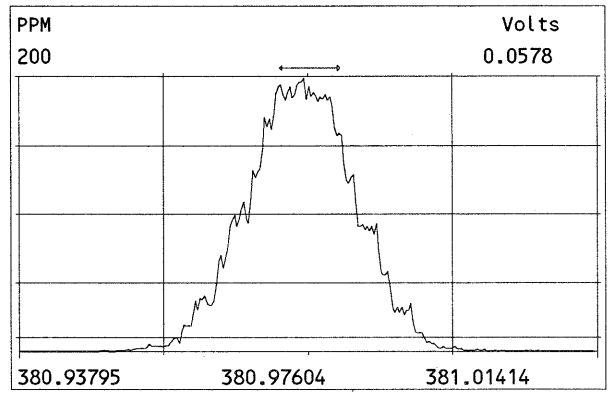




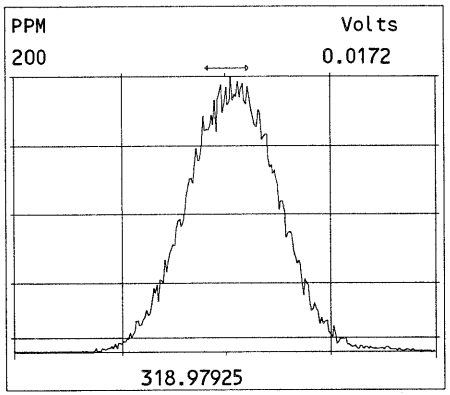


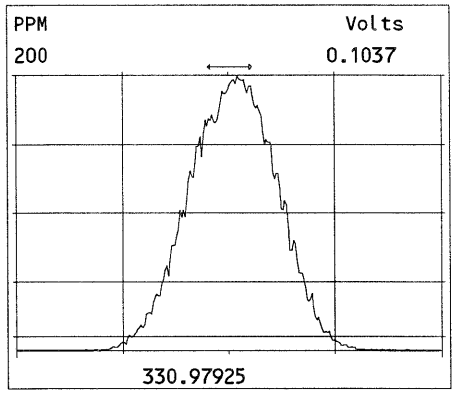


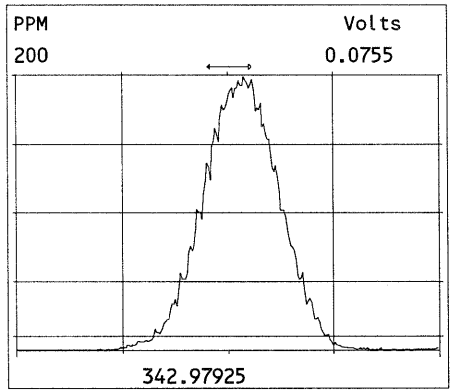


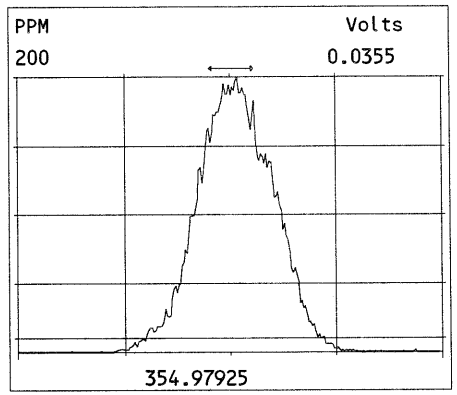


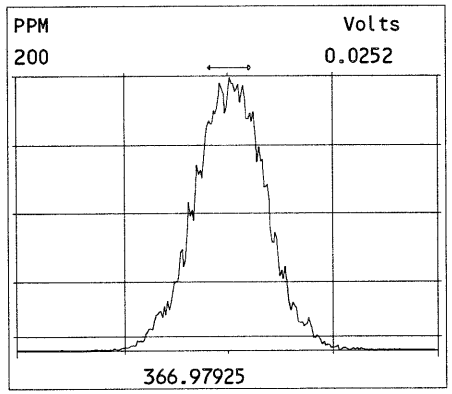
Peak Locate Examination: 3-APR-2019:21:57 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK 78

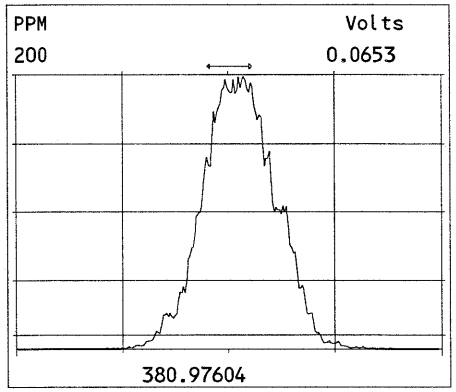


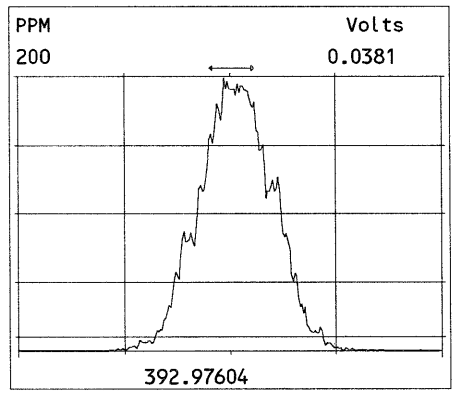


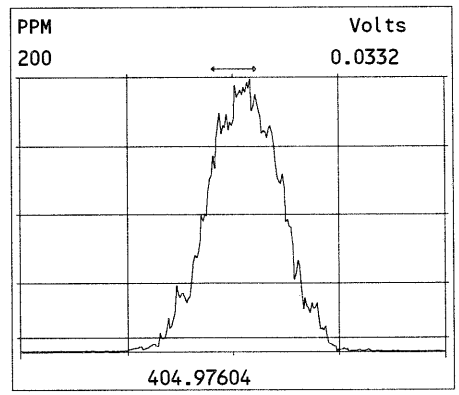


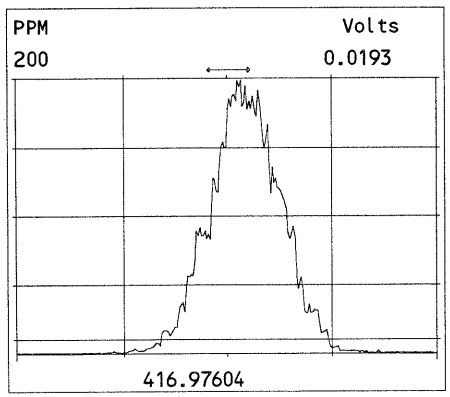


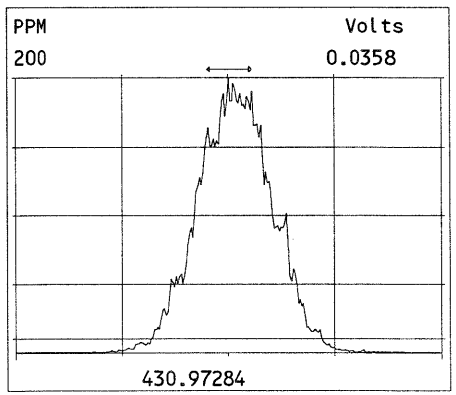


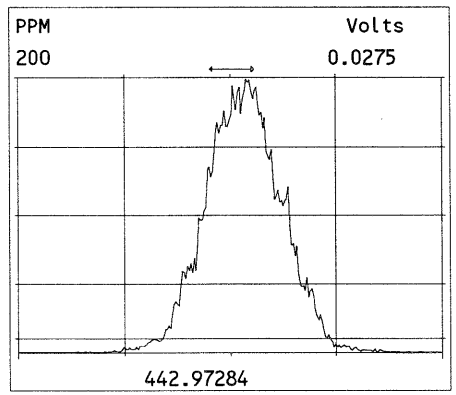




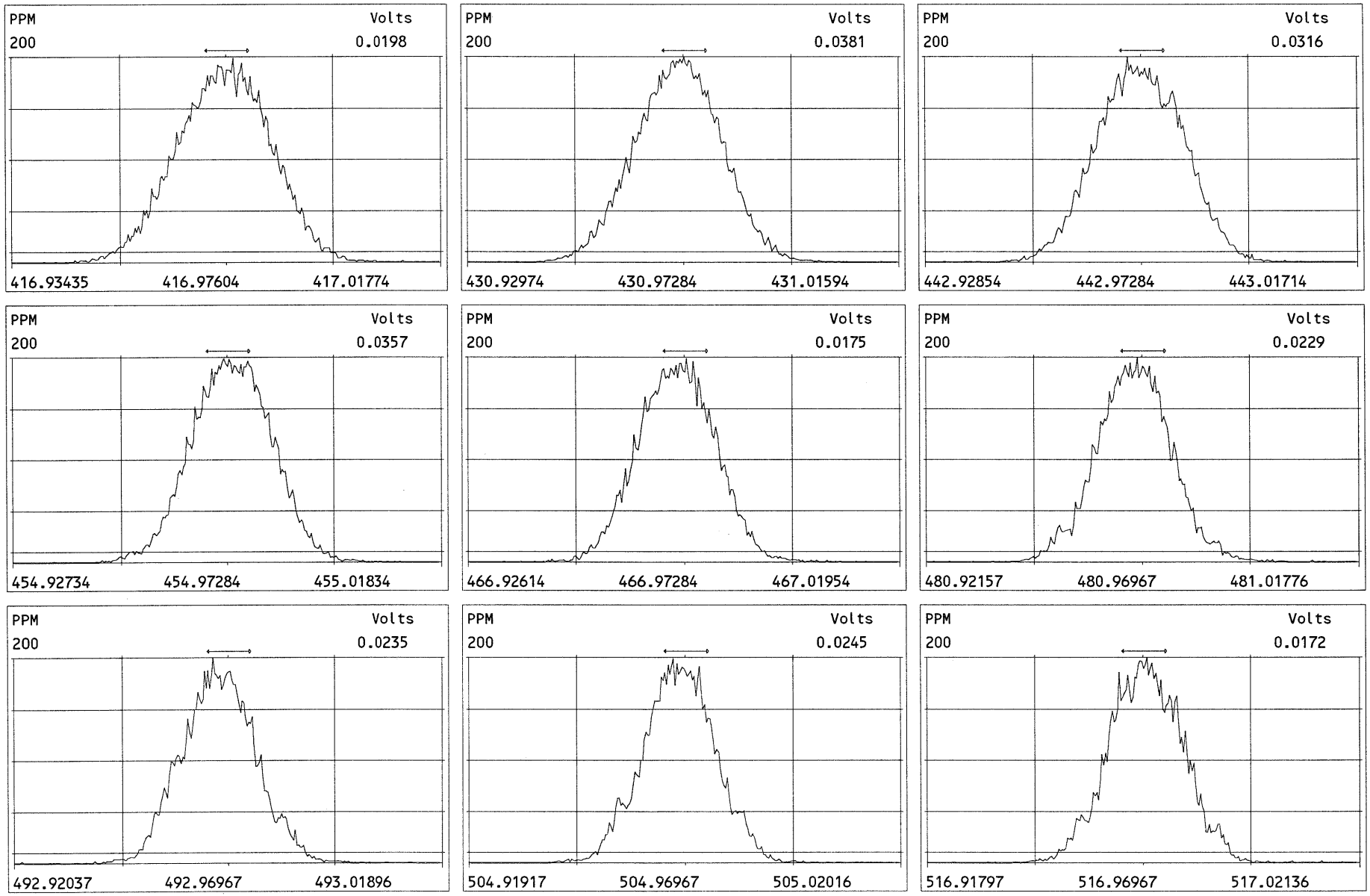








Peak Locate Examination: 3-APR-2019:22:00 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK 78



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: 02AUG19Z Sam:1 Analysis Date: 2-AUG-19 07:02:18

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.17	2.66-3.60	y	50.0	37.5 - 62.5
PCB-3	M/M+2	3.11	2.66-3.60	y	50.6	37.5 - 62.5
PCB-4	M/M+2	1.55	1.33-1.79	y	50.4	37.5 - 62.5
PCB-15	M/M+2	1.55	1.33-1.79	y	50.2	37.5 - 62.5
PCB-19	M/M+2	1.05	0.88-1.20	y	54.4	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	51.4	37.5 - 62.5
PCB-54	M/M+2	0.82	0.65-0.89	y	54.3	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	52.3	37.5 - 62.5
PCB-81	M/M+2	0.80	0.65-0.89	y	52.7	37.5 - 62.5
PCB-104	M+2/M+4	1.62	1.32-1.78	y	52.1	37.5 - 62.5
PCB-105	M+2/M+4	1.60	1.32-1.78	y	53.5	37.5 - 62.5
PCB-114	M+2/M+4	1.57	1.32-1.78	y	53.0	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	51.3	37.5 - 62.5
PCB-123	M+2/M+4	1.57	1.32-1.78	y	51.7	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	51.0	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	48.3	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	50.5	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	49.6	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	50.5	37.5 - 62.5
PCB-169	M+2/M+4	1.30	1.05-1.43	y	51.7	37.5 - 62.5
PCB-188	M+2/M+4	1.07	0.89-1.21	y	51.5	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	53.8	37.5 - 62.5
PCB-202	M+2/M+4	0.95	0.76-1.02	y	52.5	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	54.9	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	53.0	37.5 - 62.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	52.2	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	51.9	37.5 - 62.5

Analyst: _____ Date: 8/2/19

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: 02AUG19Z Sam:1 Analysis Date: 2-AUG-19 07:02:18

	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	3.27	2.66-3.60	y	85.4	50.0 - 145
13C-PCB-3	M/M+2	3.28	2.66-3.60	y	93.0	50.0 - 145
13C-PCB-4	M/M+2	1.61	1.33-1.79	y	85.5	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	105	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	84.0	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	107	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	83.4	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	99.5	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	100	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	83.4	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	109	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	116	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	120	50.0 - 145
13C-PCB-123	M+2/M+4	1.55	1.32-1.78	y	118	50.0 - 145
13C-PCB-126	M+2/M+4	1.58	1.32-1.78	y	102	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	91.4	50.0 - 145
13C-PCB-156	M+2/M+4	1.30	1.05-1.43	y	111	50.0 - 145
13C-PCB-157	M+2/M+4	1.28	1.05-1.43	y	105	50.0 - 145
13C-PCB-167	M+2/M+4	1.29	1.05-1.43	y	109	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	107	50.0 - 145
13C-PCB-188	M+2/M+4	1.05	0.89-1.21	y	92.2	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	108	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	89.9	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	98.9	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	108	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	1.20	0.99-1.33	y	109	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	108	65.0 - 135
13C-PCB-111	M+2/M+4	1.64	1.32-1.78	y	98.3	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	88.0	75.0 - 125

Analyst: [signature] Date: 8/2/19

FAL ID: ST080219Z1 Filename: 02AUG19Z Sam:1 Acquired: 2-AUG-19 07:02:18 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 02AUG19Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	8.03e+07	3.17 y	14:33	1.19	50.0		2.50	-	-	*	-
13C-PCB-1	1.34e+08	3.27 y	14:32	1.02	85.4		2.50				85.4
PCB-3	8.27e+07	3.11 y	16:59	1.18	50.6		2.50	-	-	*	-
13C-PCB-3	1.39e+08	3.28 y	16:58	0.97	93.0		2.50				93.0
PCB-4	5.13e+07	1.55 y	18:13	1.04	50.4		2.50	-	-	*	-
13C-PCB-4	9.73e+07	1.61 y	18:12	0.74	85.5		2.50				85.5
PCB-15	8.09e+07	1.55 y	23:44	1.03	50.2		2.50	-	-	*	-
13C-PCB-15	1.56e+08	1.60 y	23:43	0.96	105		2.50				105
PCB-19	4.11e+07	1.05 y	22:06	1.11	54.4		2.50	-	-	*	-
13C-PCB-19	6.81e+07	1.07 y	22:04	0.53	84.0		2.50				84.0
13C-PCB-9	1.54e+08	1.58 y	19:52	-	199		2.50				
PCB-37	6.60e+07	1.05 y	30:22	1.04	51.4		2.50	-	-	*	-
13C-PCB-37	1.24e+08	1.06 y	30:21	1.57	107		2.50				107
PCB-54	5.36e+07	0.82 y	25:38	1.16	54.3		2.50	-	-	*	-
13C-PCB-54	8.48e+07	0.82 y	25:37	1.38	83.4		2.50				83.4
PCB-104	3.82e+07	1.62 y	30:03	1.08	52.1		2.50	-	-	*	-
13C-PCB-104	6.78e+07	1.59 y	30:02	1.11	83.4		2.50				83.4
13C-PCB-28	1.36e+08	1.07 y	26:41	1.71	108		2.50				108
13C-PCB-52	7.36e+07	0.82 y	28:56	-	193		2.50				
PCB-81	5.12e+07	0.80 y	36:08	1.06	52.7		2.50	-	-	*	-
13C-PCB-81	9.13e+07	0.80 y	36:07	1.50	100		2.50				100
PCB-77	5.05e+07	0.79 y	36:43	1.02	52.3		2.50	-	-	*	-
13C-PCB-77	9.45e+07	0.80 y	36:41	1.57	99.5		2.50				99.5
PCB-155	3.89e+07	1.27 y	34:12	1.02	48.3		2.50	-	-	*	-
13C-PCB-155	7.86e+07	1.28 y	34:11	1.42	91.4		2.50				91.4
13C-PCB-111	7.68e+07	1.64 y	36:16	1.29	98.3		2.50				98.3
13C-PCB-101	6.07e+07	1.63 y	34:37	-	184		2.50				
PCB-123	3.99e+07	1.57 y	38:20	1.03	51.7		2.50	-	-	*	-
13C-PCB-123	7.46e+07	1.55 y	38:19	1.40	118		2.50				118
PCB-118	4.37e+07	1.56 y	38:30	1.02	51.3		2.50	-	-	*	-
13C-PCB-118	8.36e+07	1.61 y	38:29	1.53	120		2.50				120
PCB-114	4.08e+07	1.57 y	39:08	1.01	53.0		2.50	-	-	*	-
13C-PCB-114	7.60e+07	1.61 y	39:06	1.45	116		2.50				116
PCB-105	3.85e+07	1.60 y	39:56	1.02	53.5		2.50	-	-	*	-
13C-PCB-105	7.09e+07	1.61 y	39:56	1.44	109		2.50				109
PCB-126	3.27e+07	1.57 y	42:02	1.02	51.0		2.50	-	-	*	-
13C-PCB-126	6.32e+07	1.58 y	42:02	1.37	102		2.50				102
PCB-167	3.41e+07	1.26 y	43:25	1.07	50.5		2.50	-	-	*	-
13C-PCB-167	6.32e+07	1.29 y	43:23	1.28	109		2.50				109
PCB-156	3.45e+07	1.25 y	44:39	1.10	50.5		2.50	-	-	*	-
13C-PCB-156	6.23e+07	1.30 y	44:37	1.24	111		2.50				111
PCB-157	3.34e+07	1.24 y	44:54	1.06	49.6		2.50	-	-	*	-
13C-PCB-157	6.35e+07	1.28 y	44:54	1.34	105		2.50				105
PCB-169	3.31e+07	1.30 y	46:46	1.06	51.7		2.50	-	-	*	-
13C-PCB-169	6.02e+07	1.29 y	46:46	1.24	107		2.50				107
PCB-188	2.81e+07	1.07 y	39:43	1.02	51.5		2.50	-	-	*	-
13C-PCB-188	5.38e+07	1.05 y	39:41	1.29	92.2		2.50				92.2
PCB-189	2.79e+07	1.07 y	48:26	0.99	53.8		2.50	-	-	*	-
13C-PCB-189	5.23e+07	1.07 y	48:24	1.07	108		2.50				108
PCB-202	2.30e+07	0.95 y	44:49	0.99	52.5		2.50	-	-	*	-
13C-PCB-202	4.43e+07	0.92 y	44:49	1.09	89.9		2.50				89.9
13C-PCB-178	3.21e+07	1.05 y	42:19	0.81	88.0		2.50				88.0
13C-PCB-138	4.53e+07	1.30 y	41:33	-	141		2.50				

Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 02AUG19Z GC Column: DB1MS Amount: 1.000

PCB-205	3.42e+07	0.91 y	50:05	1.02	54.9	2.50	-	-	*	-
13C-PCB-205	6.09e+07	0.89 y	50:04	1.40	98.9	2.50				98.9
PCB-208	3.17e+07	1.34 y	49:09	0.98	52.2	2.50	-	-	*	-
13C-PCB-208	6.22e+07	0.81 y	49:09	1.36	104	2.50				104
PCB-206	2.51e+07	1.36 y	51:17	0.99	53.0	2.50	-	-	*	-
13C-PCB-206	4.76e+07	0.80 y	51:16	1.01	108	2.50				108
PCB-209	3.29e+07	1.20 y	52:28	1.09	51.9	2.50	-	-	*	-
13C-PCB-209	5.83e+07	1.20 y	52:28	1.21	109	2.50				109
13C-PCB-194	4.39e+07	0.93 y	49:48	-	143	2.50				

Analyst: _____ Date: 8/2/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:02AUG19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

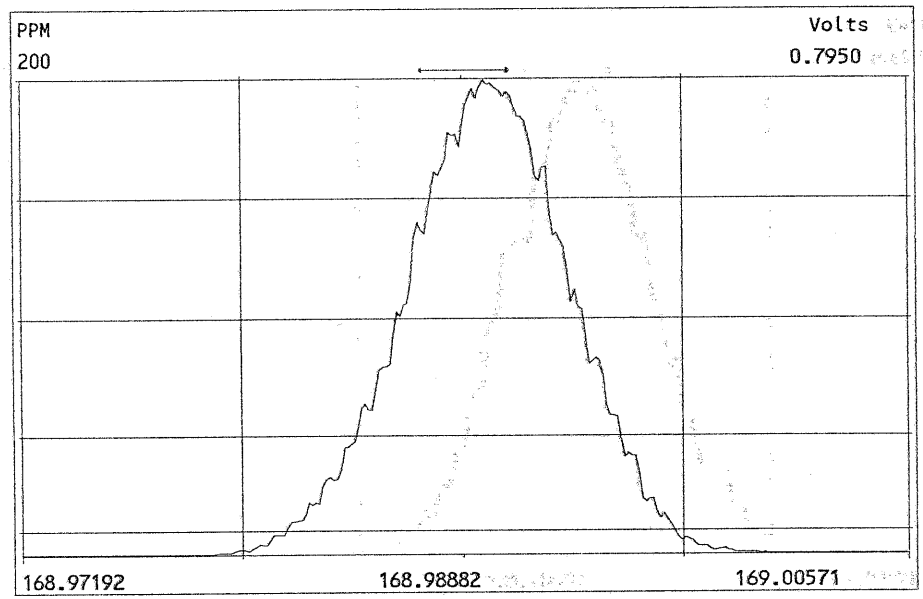
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
02AUG19Z	1	ST080219Z1	1668 CS3 R181204D	2-AUG-19 07:02:18	ST080219Z1	ST080219Z2	BS
02AUG19Z	2	SS080219Z1	Daily 209 190408A	2-AUG-19 08:00:38	ST080219Z1	ST080219Z2	BS
02AUG19Z	3	04992-001-0001-OPR	OPR	2-AUG-19 08:58:59	ST080219Z1	ST080219Z2	BS
02AUG19Z	4	04992-001-0001-MB	Method Blank	2-AUG-19 09:57:20	ST080219Z1	ST080219Z2	BS
02AUG19Z	5	12511-001-0001-SA	LDW-Y2-IN-ENR+AC-CB-S010	2-AUG-19 10:55:41	ST080219Z1	ST080219Z2	BS
02AUG19Z	6	12511-002-0001-SA	LDW-Y2-IN-ENR+AC-CC-S010	2-AUG-19 11:54:03	ST080219Z1	ST080219Z2	BS
02AUG19Z	7	12511-003-0001-SA	LDW-Y2-IN-ENR+AC-CD-S010	2-AUG-19 12:52:24	ST080219Z1	ST080219Z2	BS
02AUG19Z	8	12511-004-0001-SA	LDW-Y2-IN-ENR+AC-CE-S010	2-AUG-19 13:50:46	ST080219Z1	ST080219Z2	BS
02AUG19Z	9	12511-005-0001-SA	LDW-Y2-IN-ENR-CA-S010	2-AUG-19 14:49:07	ST080219Z1	ST080219Z2	BS
02AUG19Z	10	12511-006-0001-SA	LDW-Y2-IN-ENR-CB-S010	2-AUG-19 15:47:28	ST080219Z1	ST080219Z2	BS
02AUG19Z	11	12511-007-0001-SA	LDW-Y2-IN-ENR-CC-S010	2-AUG-19 16:46:14	ST080219Z1	ST080219Z2	BS
02AUG19Z	12	12511-008-0001-SA	LDW-Y2-IN-ENR-CD-S010	2-AUG-19 17:45:00	ST080219Z1	ST080219Z2	BS
02AUG19Z	13	12510-014-0001-SA	LDW-Y2-SU-S010-LCB	2-AUG-19 18:43:46	ST080219Z1	ST080219Z2	BS
02AUG19Z	14	12510-015-0001-SA	LDW-Y2-IN-ENR+AC-CA-S010	2-AUG-19 19:42:07	ST080219Z1	ST080219Z2	BS
02AUG19Z	15	SB080219Z1	Solvent Blank	2-AUG-19 20:40:28	ST080219Z1	ST080219Z2	BS
02AUG19Z	16	ST080219Z2	1668 CS3 R181204D	2-AUG-19 21:38:52	ST080219Z1	ST080219Z2	BS

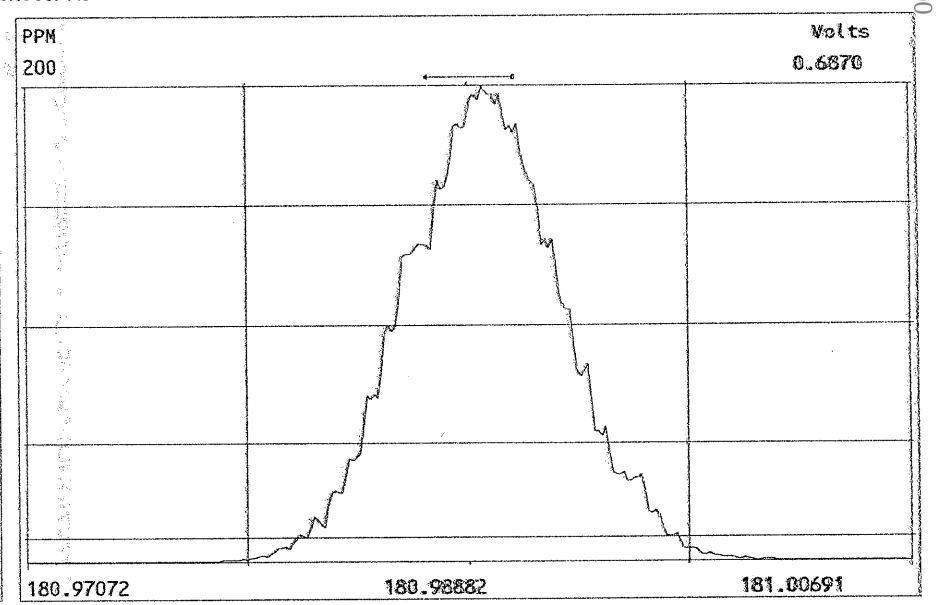
8/5/19

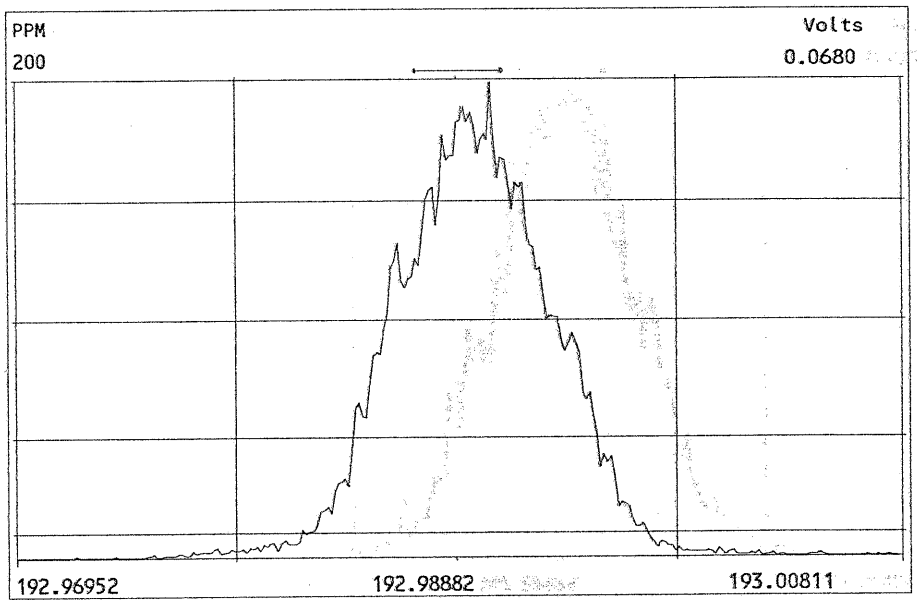
Data Backed Up:_____

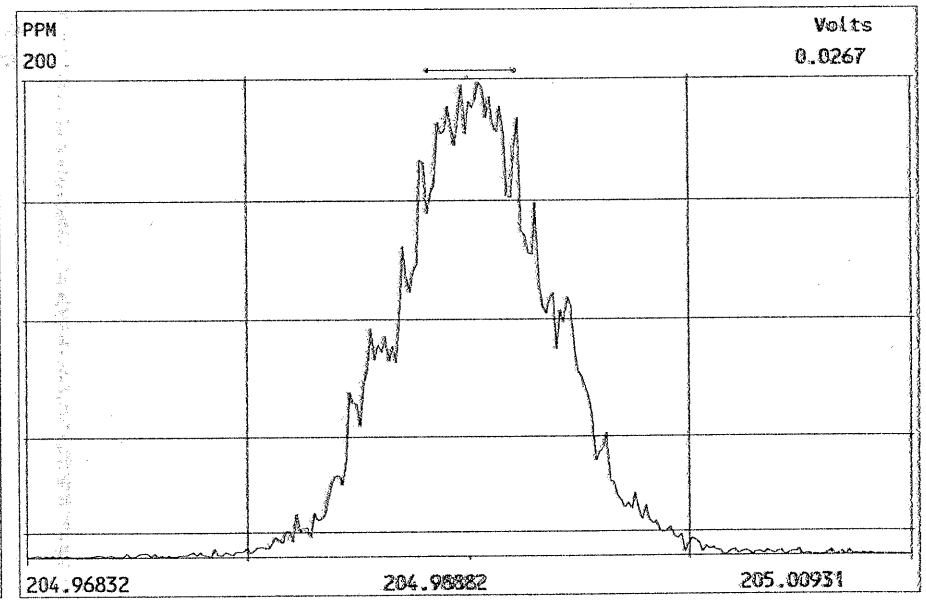
Date:_____

Peak Locate Examination: 2-AUG-2019:06:59 File:02AUG19Z
Experiment:1668PCB Function:1 Reference:PFK









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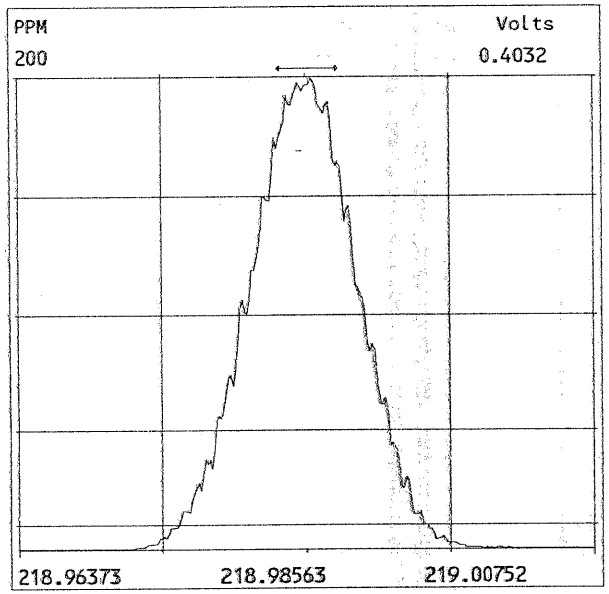
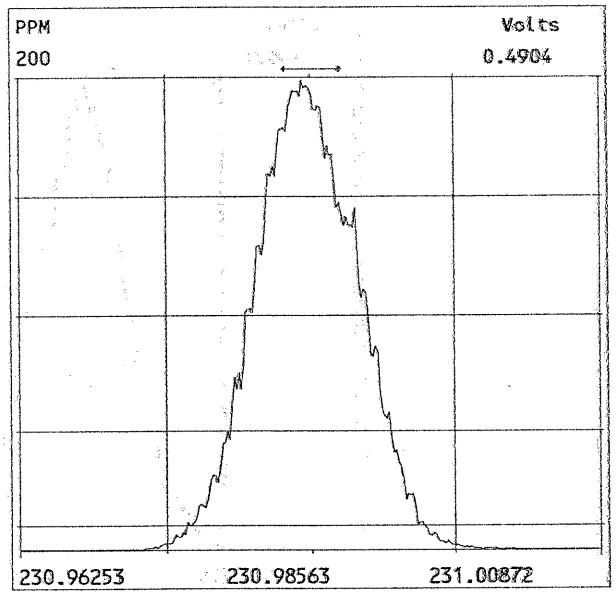
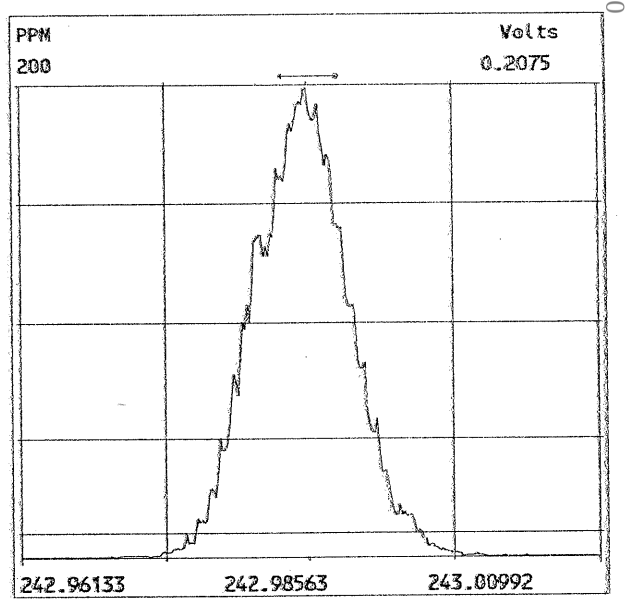
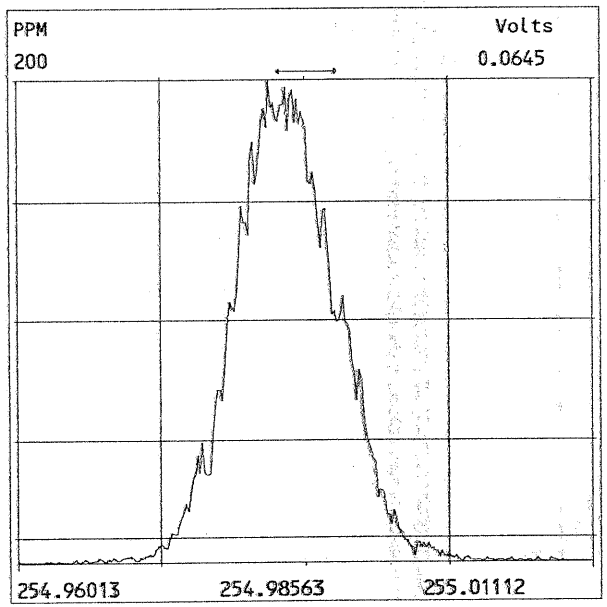
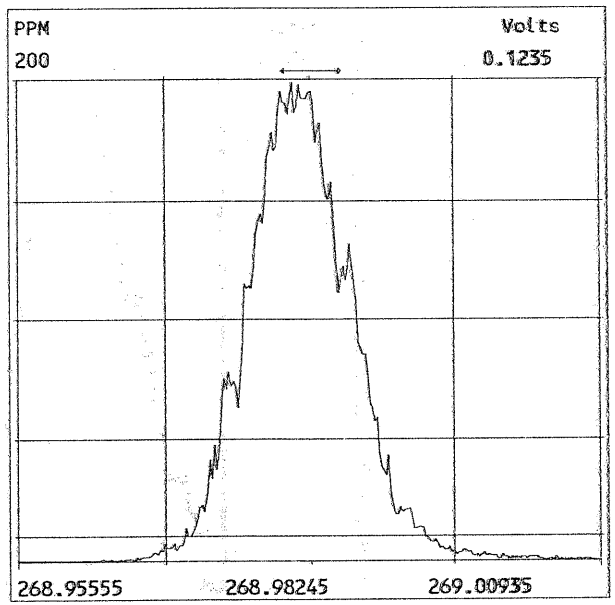
Experiment:1668PCB Function:2 Reference:PFK

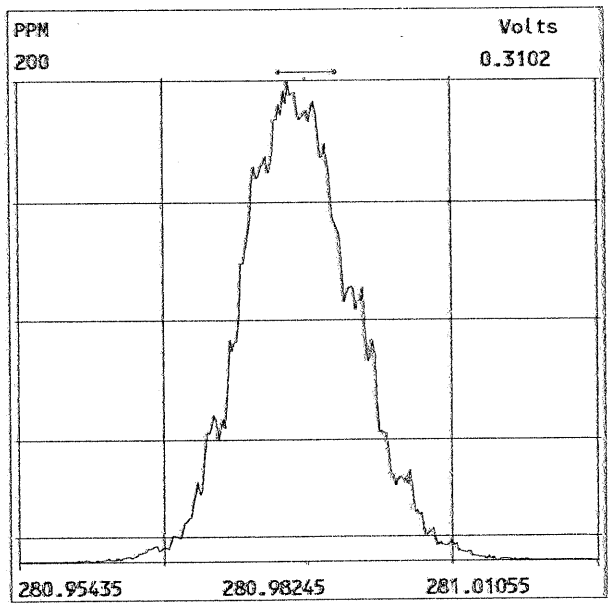












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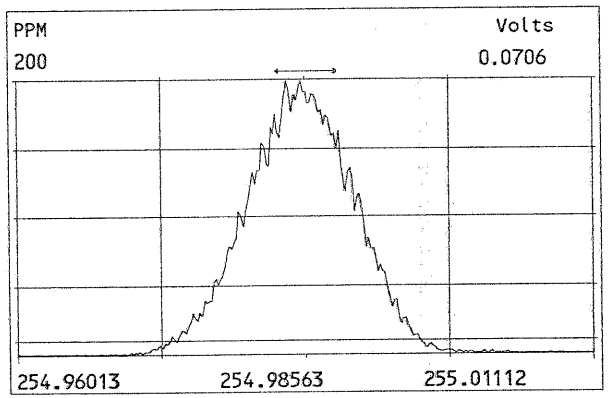
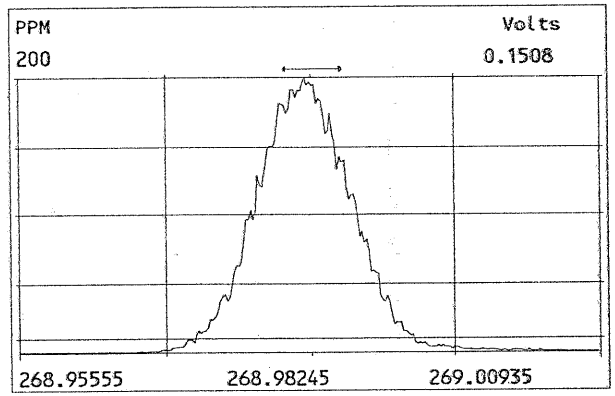
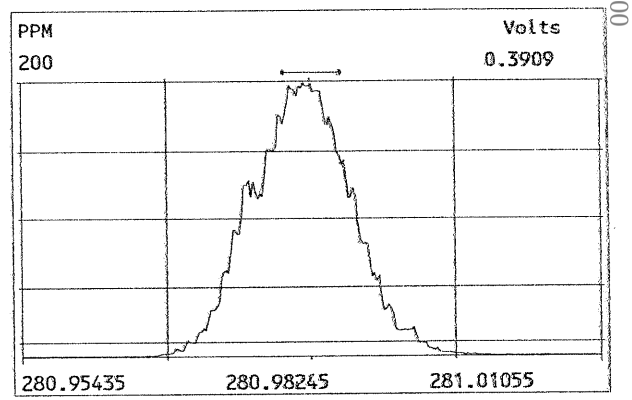
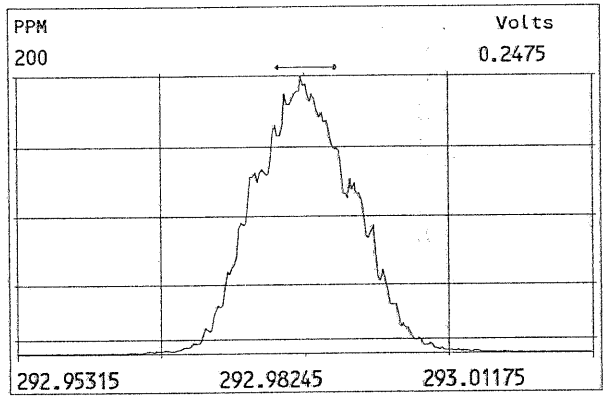
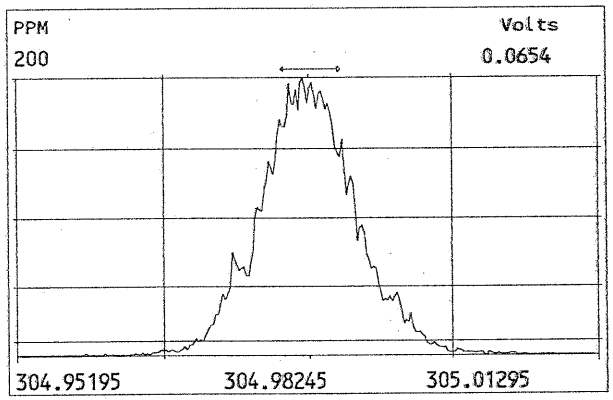
Experiment:1668PCB Function:3 Reference:PFK

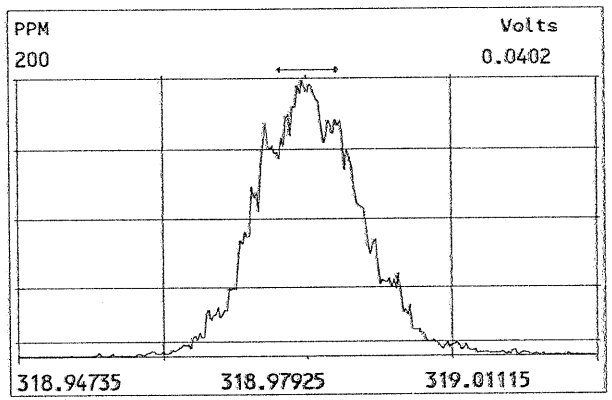


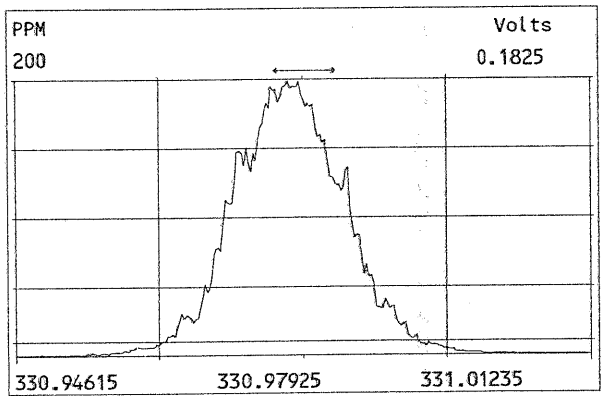


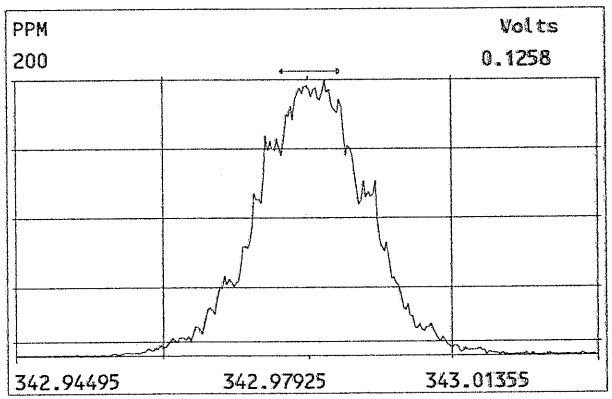




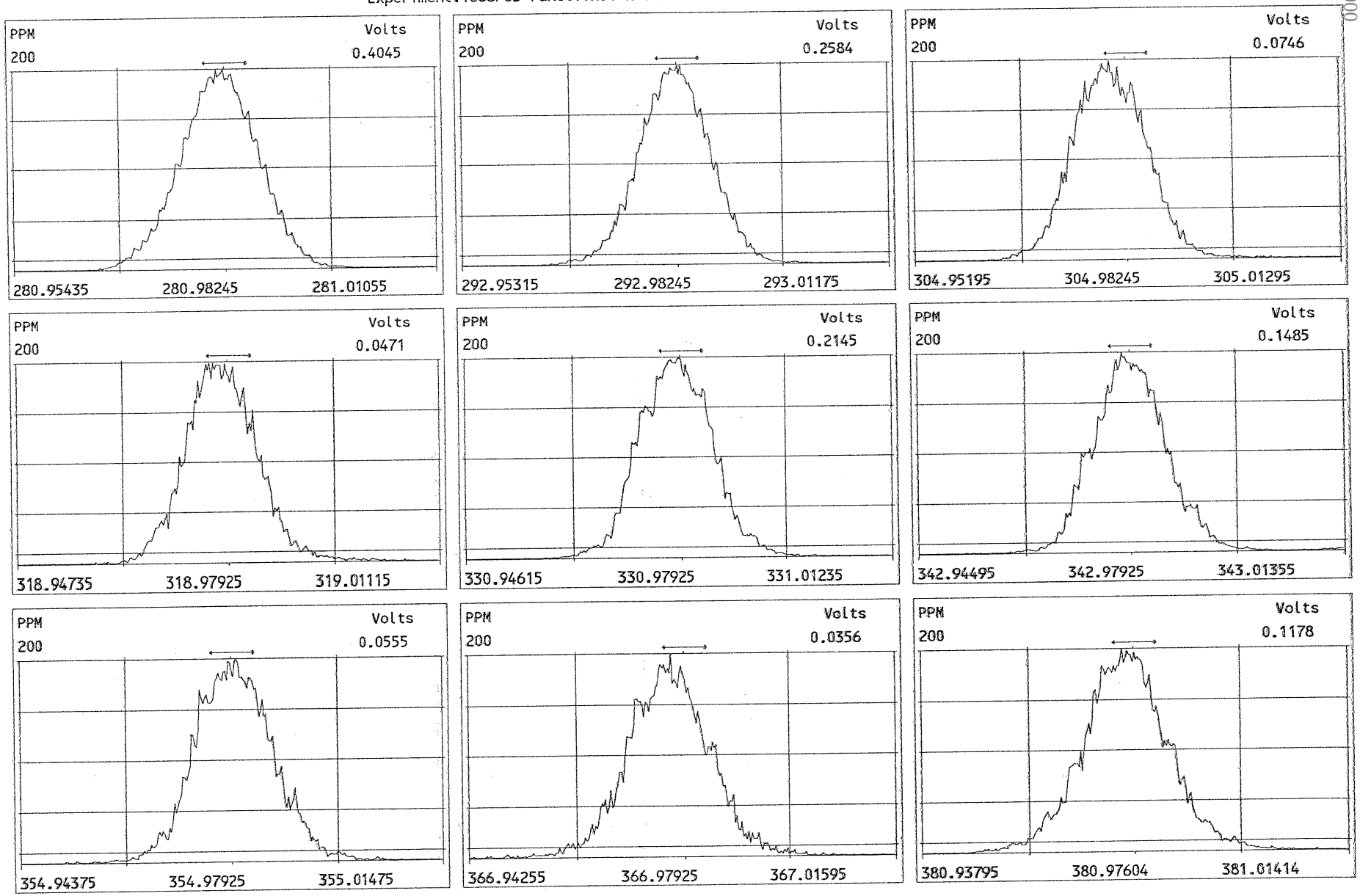








Peak Locate Examination: 2-AUG-2019:07:00 File:02AUG19Z
Experiment:1668PCB Function:4 Reference:PFK



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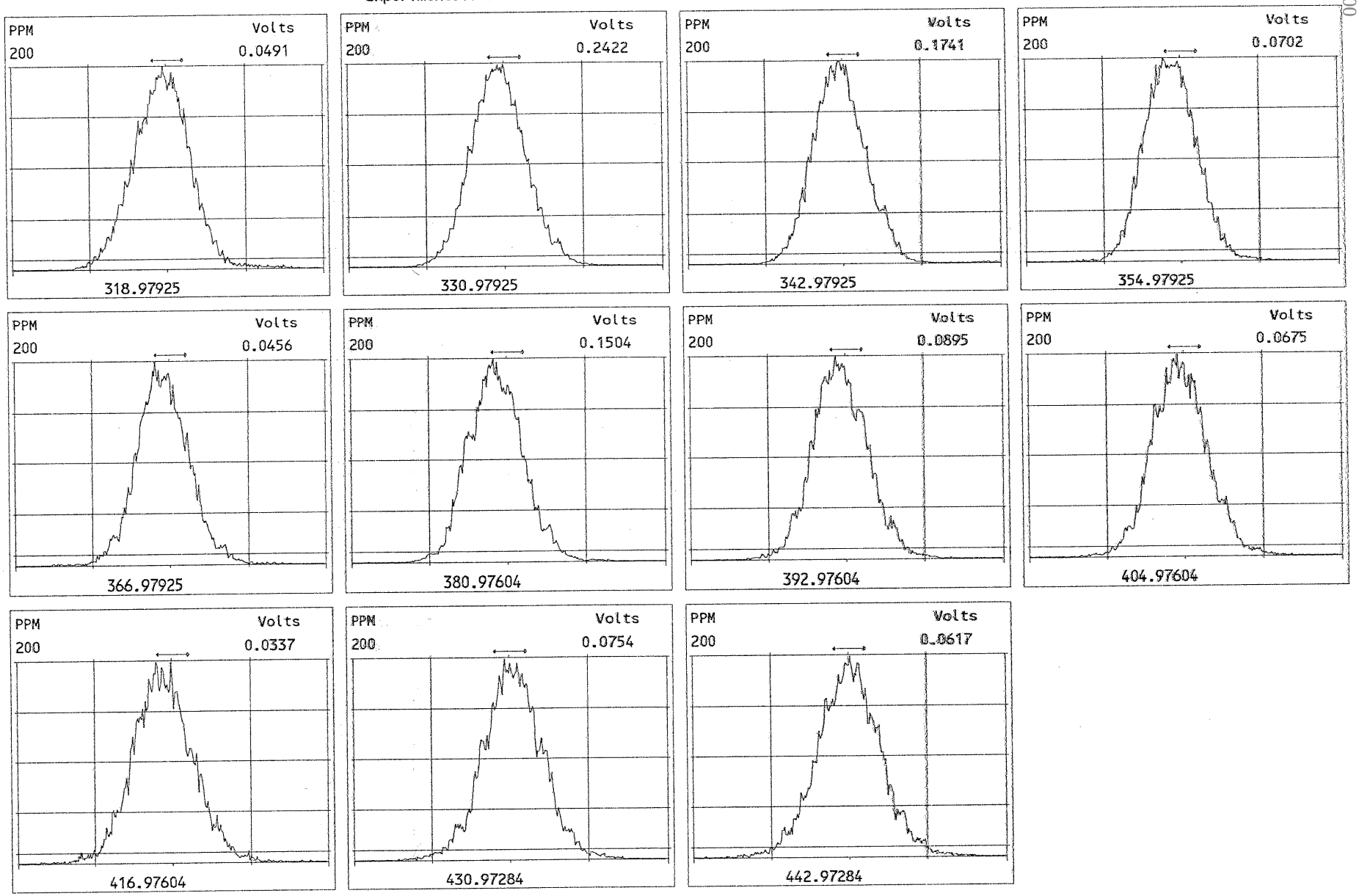
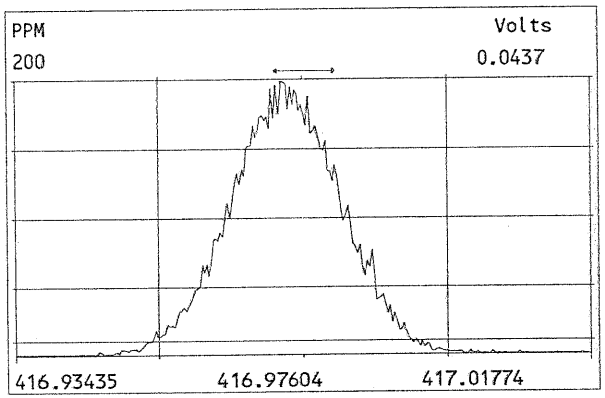
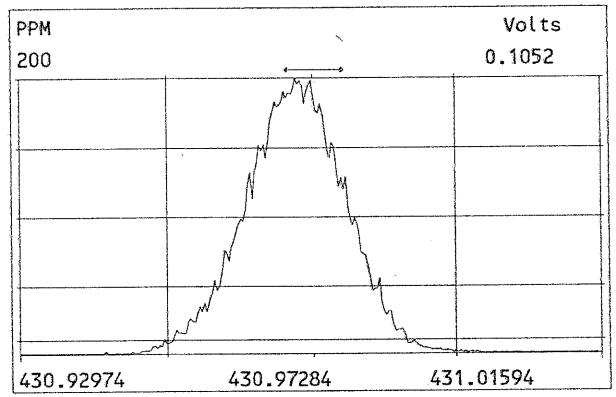
Experiment:1668PCB Function:5 Reference:PFK

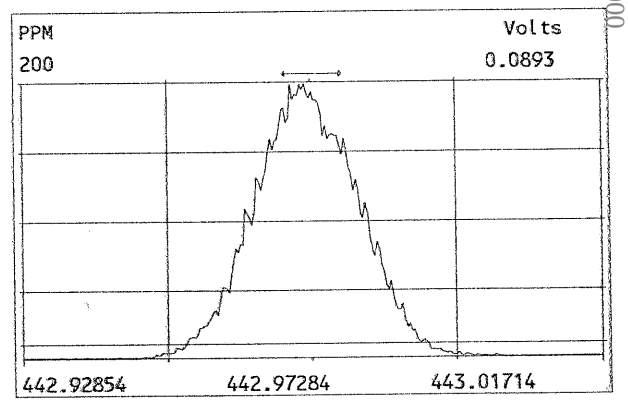


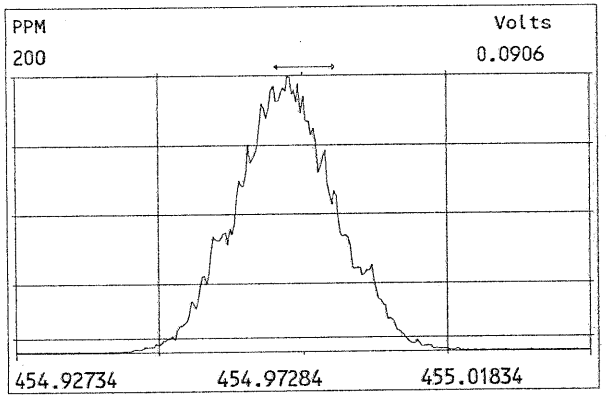
Peak Locate Examination: 2-AUG-2019:07:01 File:02AUG19Z

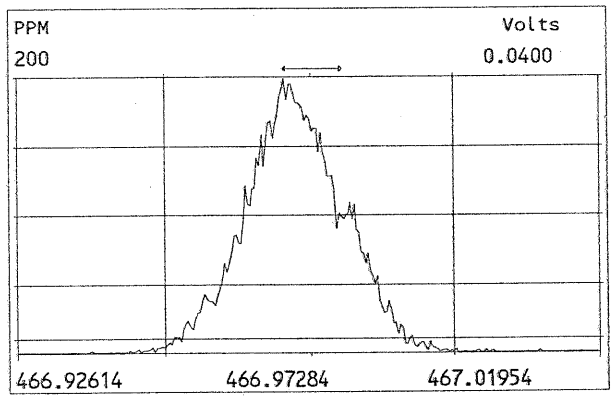
Experiment:1668PCB Function:6 Reference:PFK

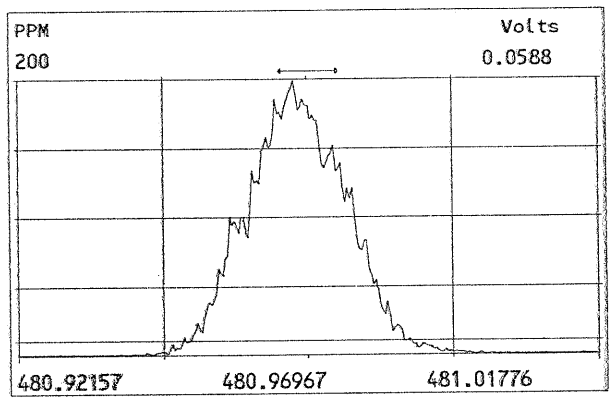


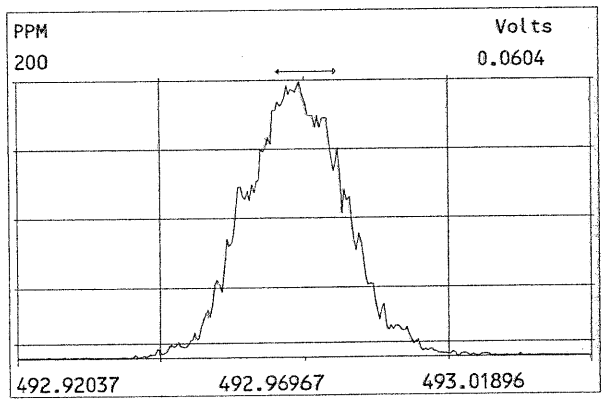


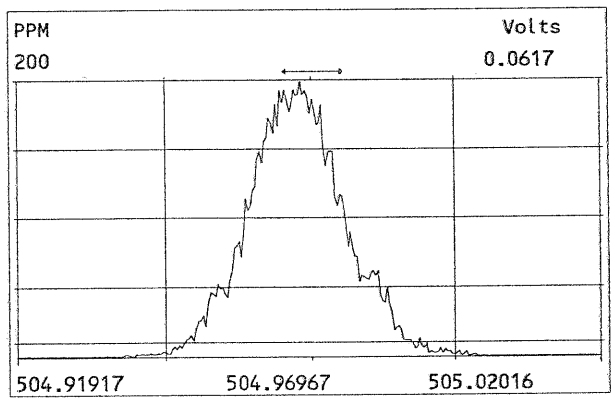


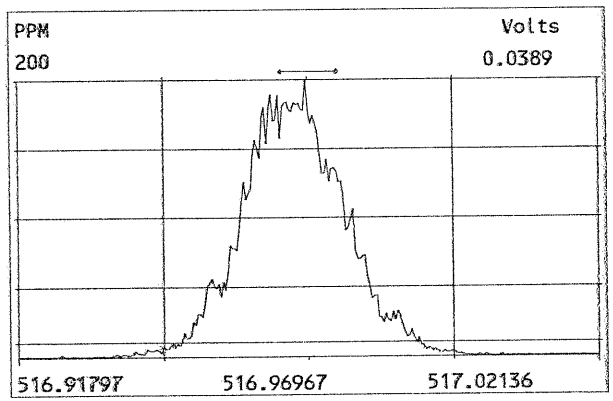




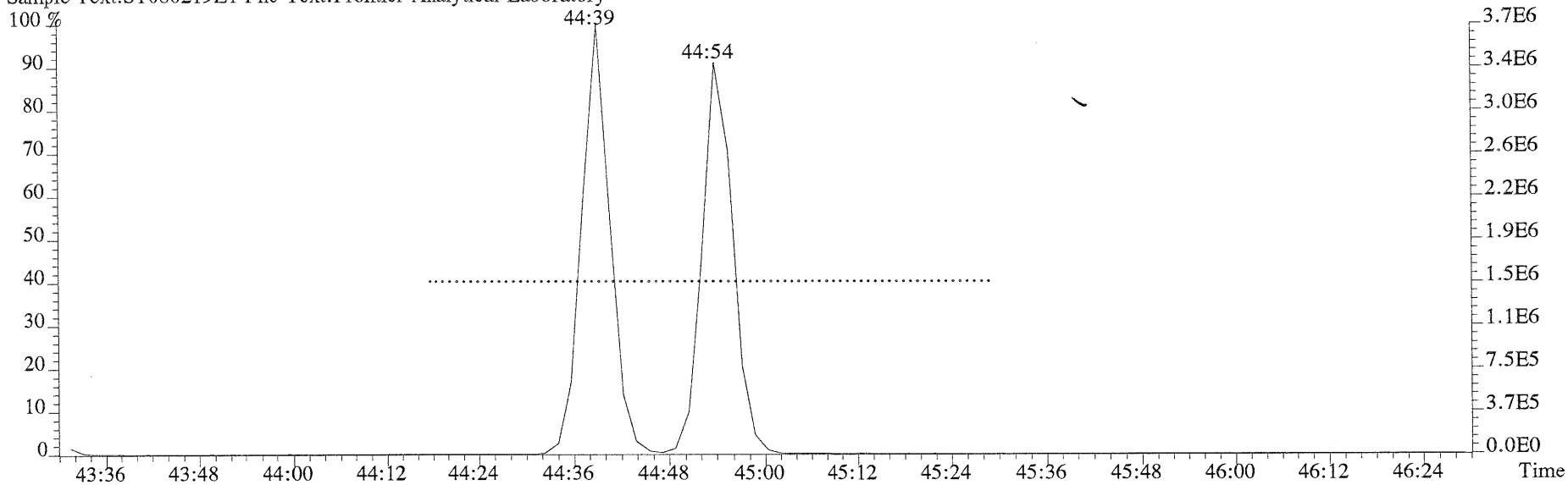




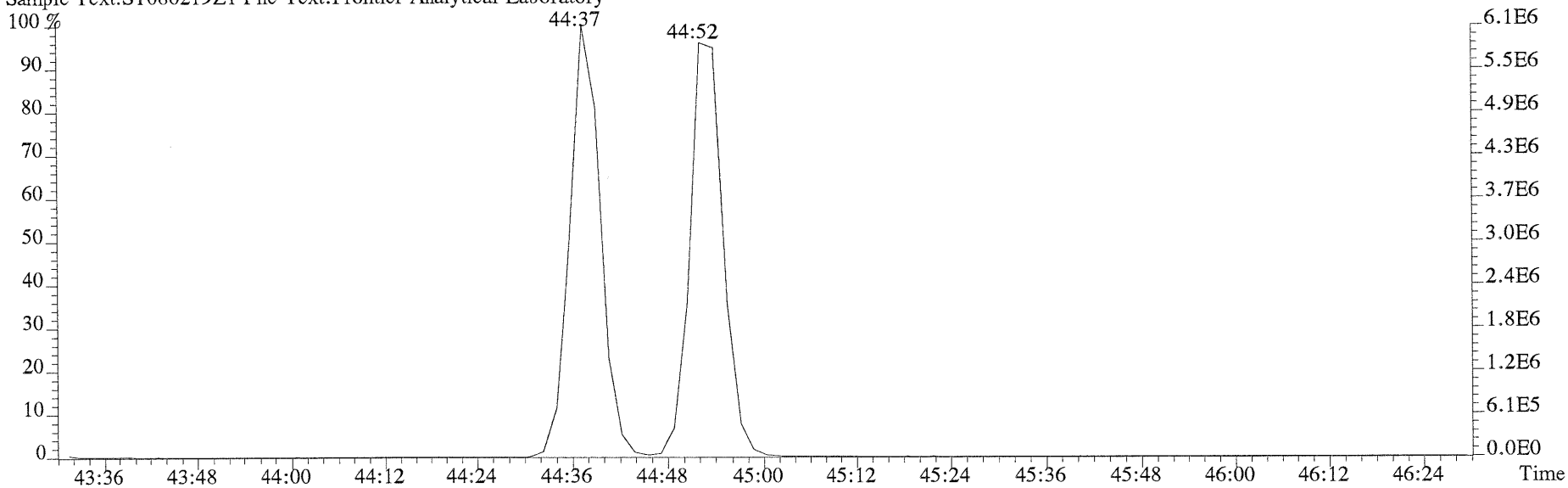




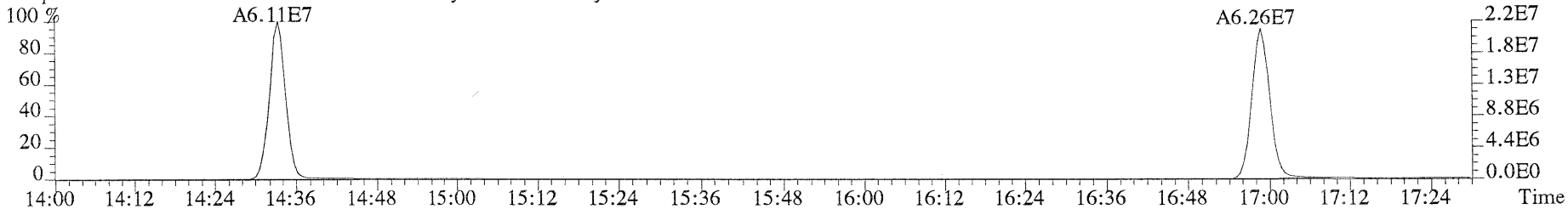
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



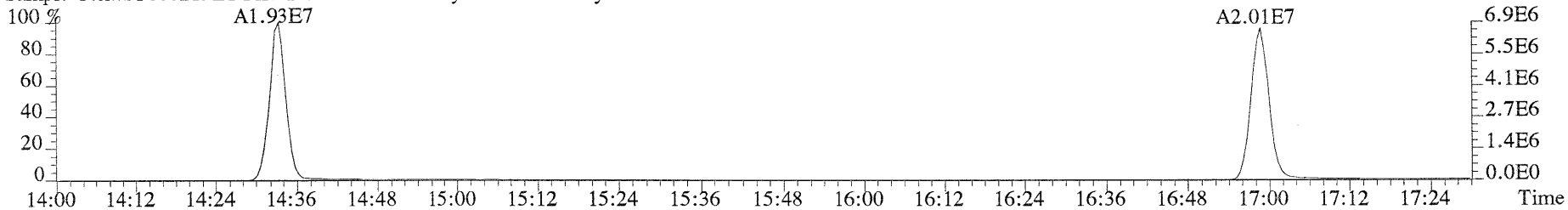
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



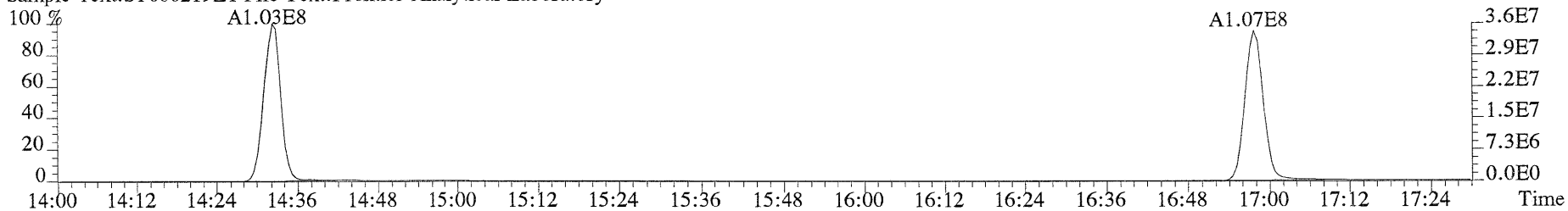
File:02AUG19Z #1-784 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



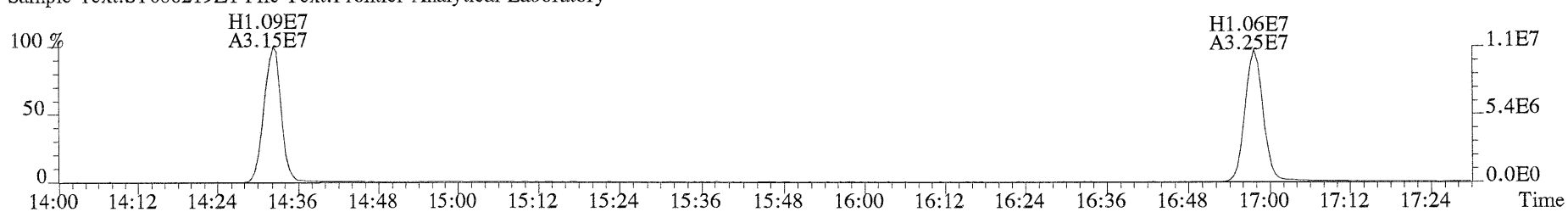
File:02AUG19Z #1-784 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



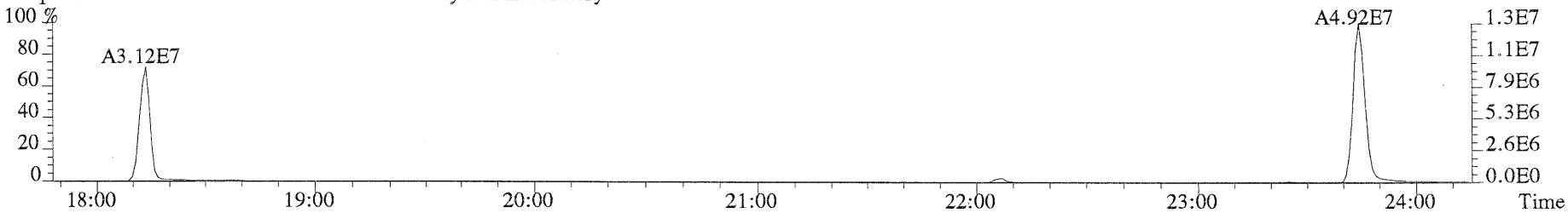
File:02AUG19Z #1-784 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



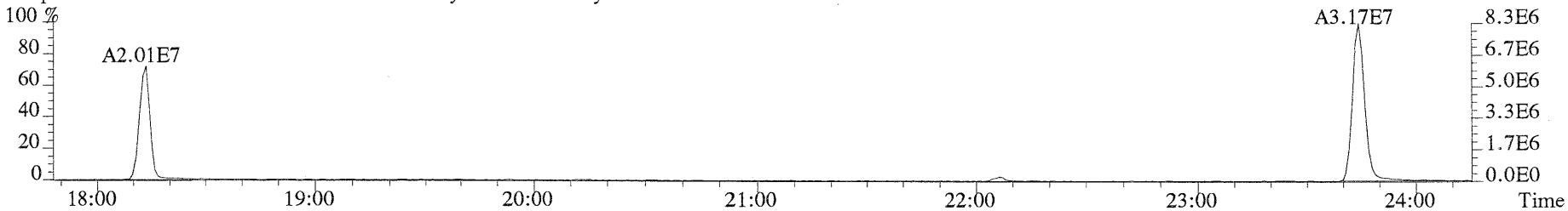
File:02AUG19Z #1-784 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



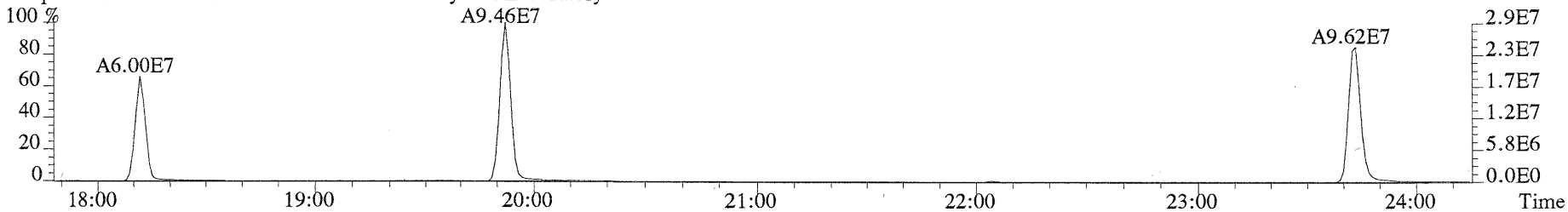
File:02AUG19Z #1-520 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



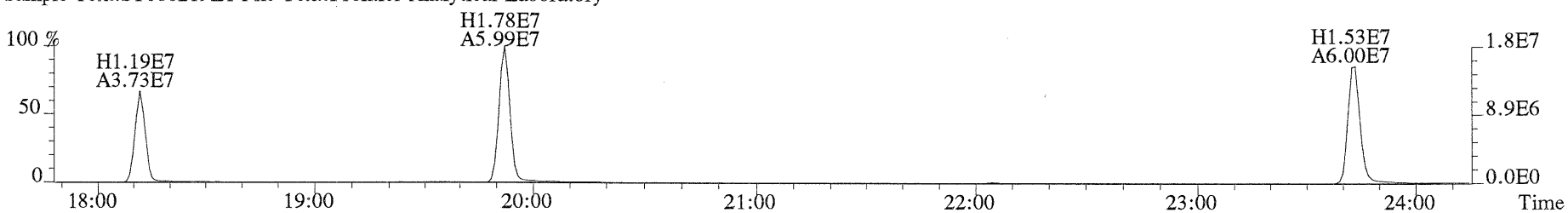
File:02AUG19Z #1-520 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
223.9975 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



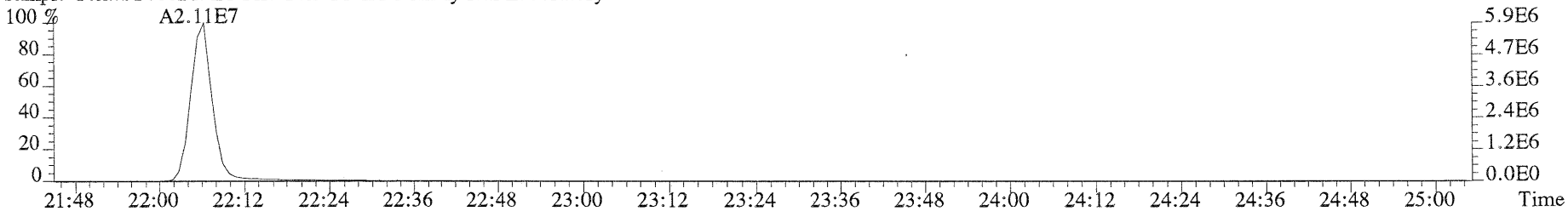
File:02AUG19Z #1-520 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



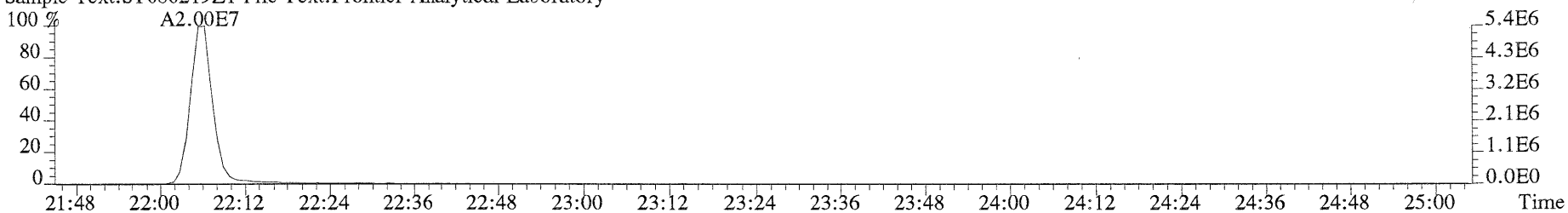
File:02AUG19Z #1-520 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



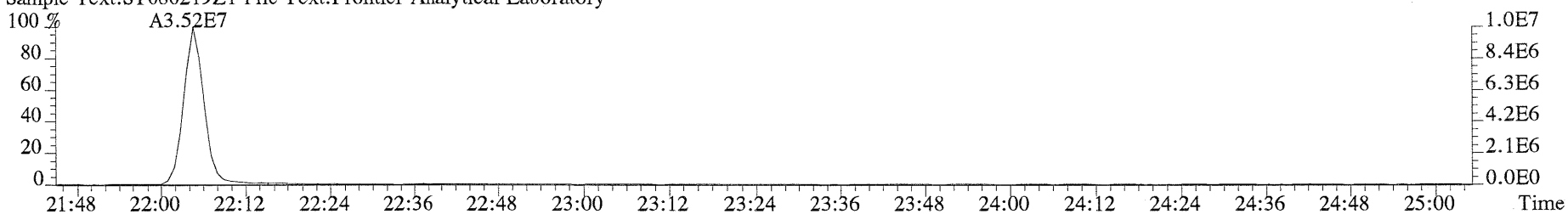
File:02AUG19Z #1-520 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



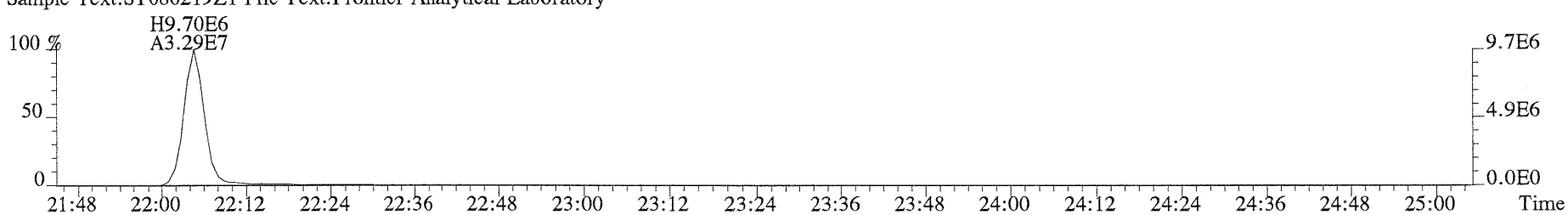
File:02AUG19Z #1-520 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



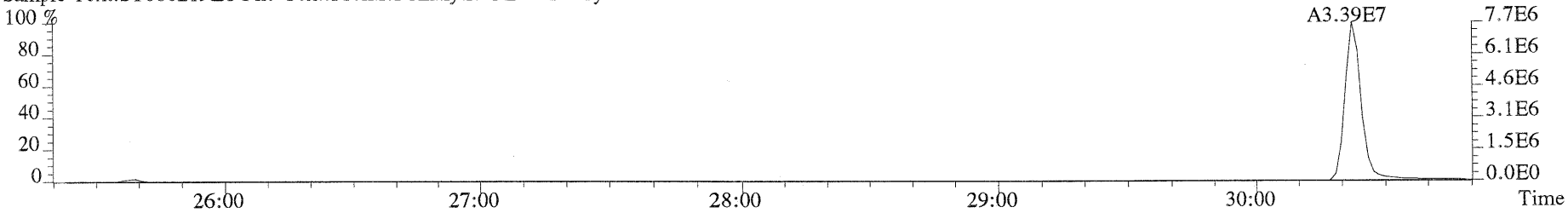
File:02AUG19Z #1-520 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



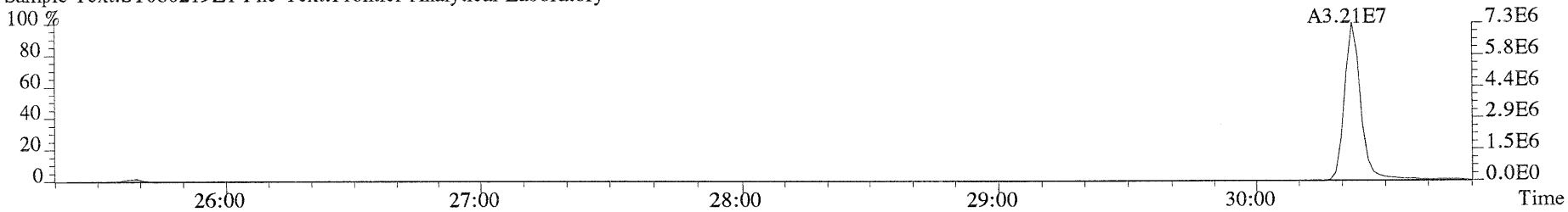
File:02AUG19Z #1-520 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



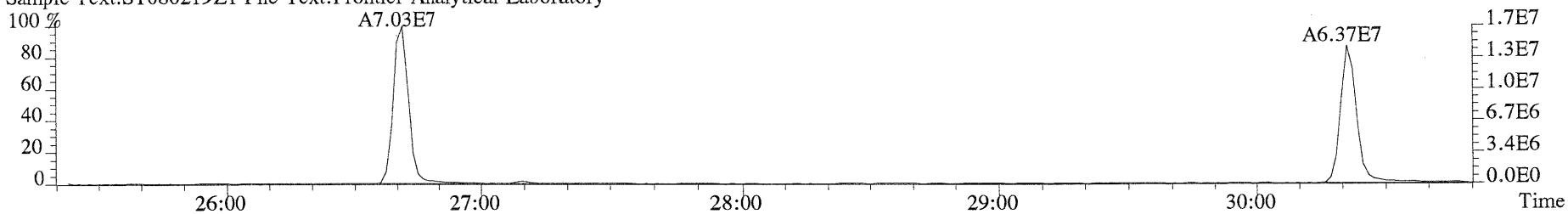
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



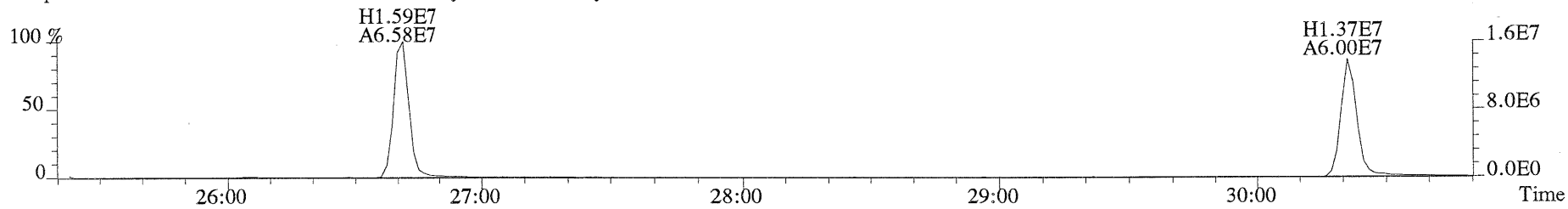
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



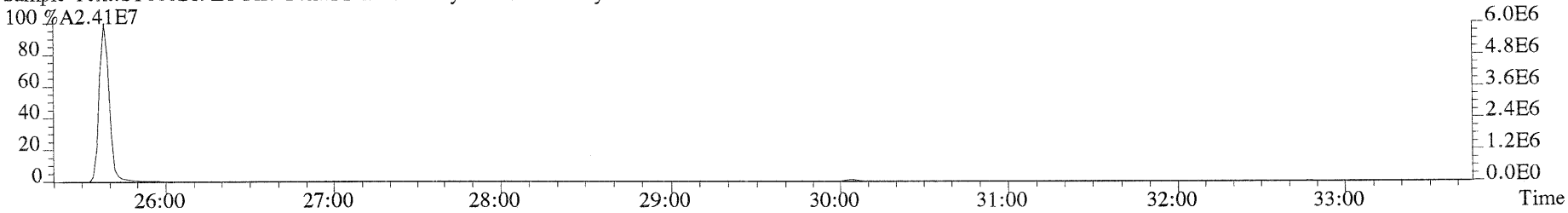
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



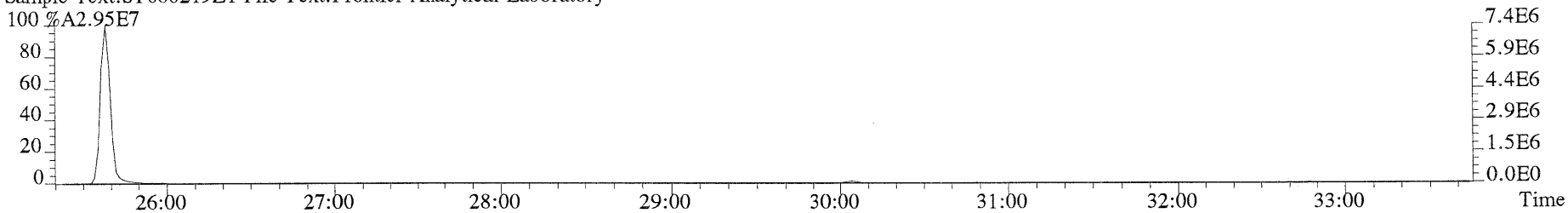
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



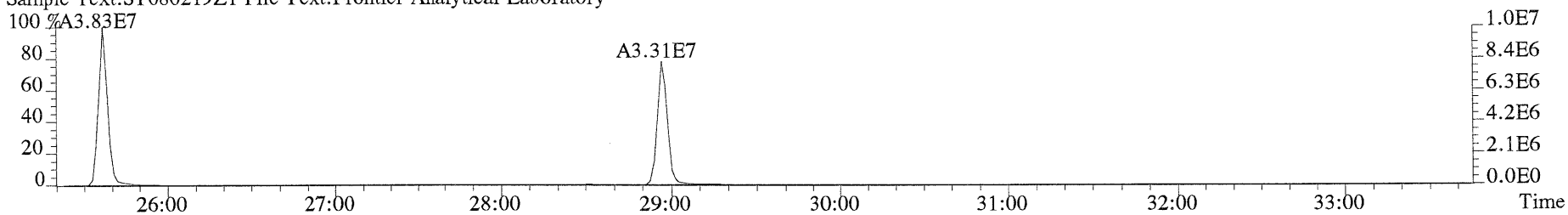
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



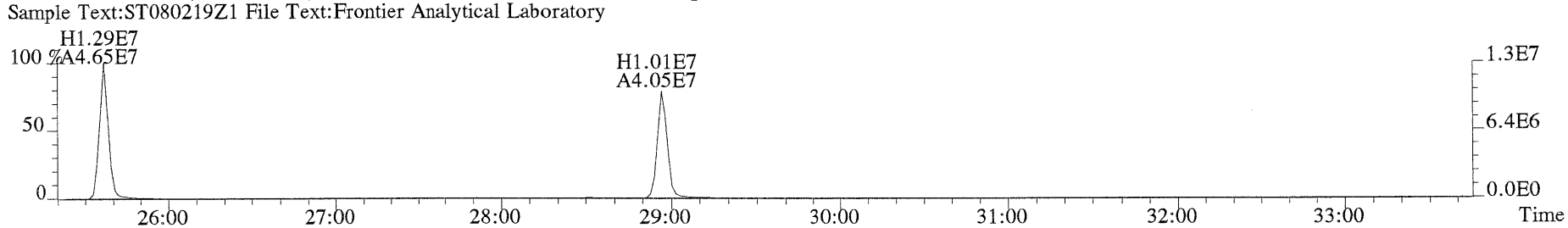
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



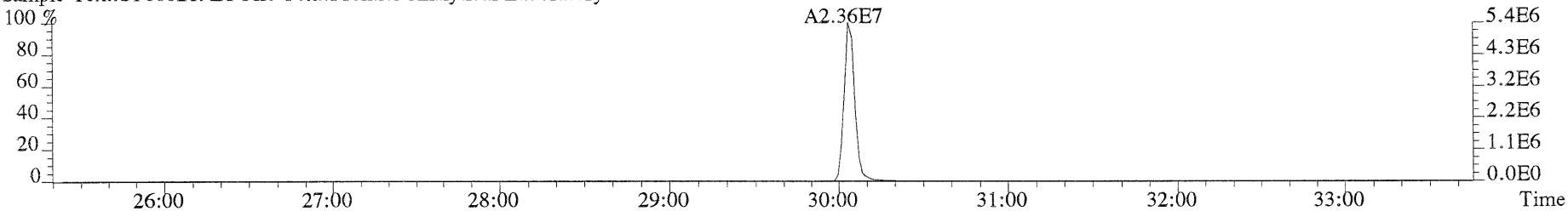
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



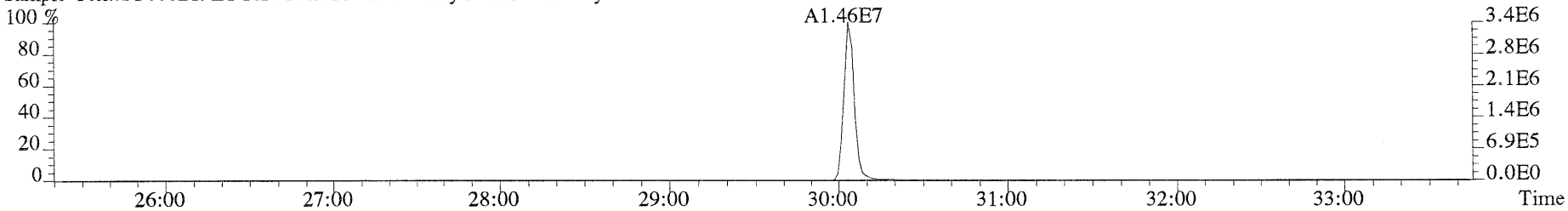
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



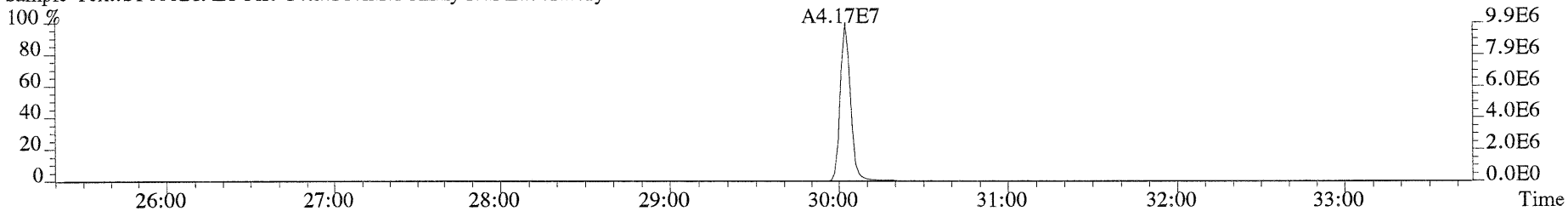
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



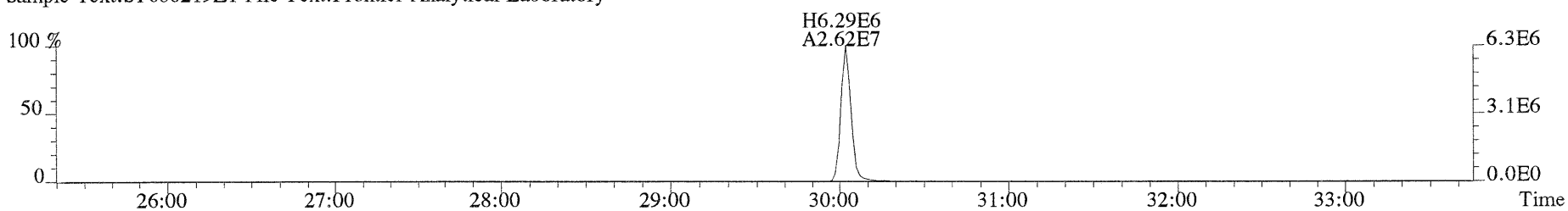
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



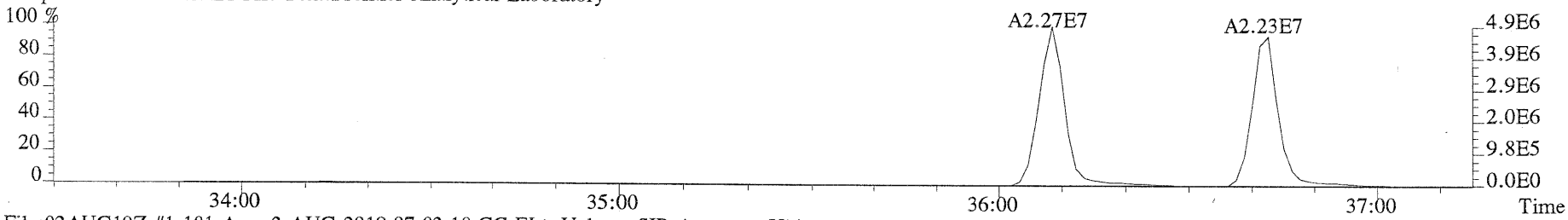
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



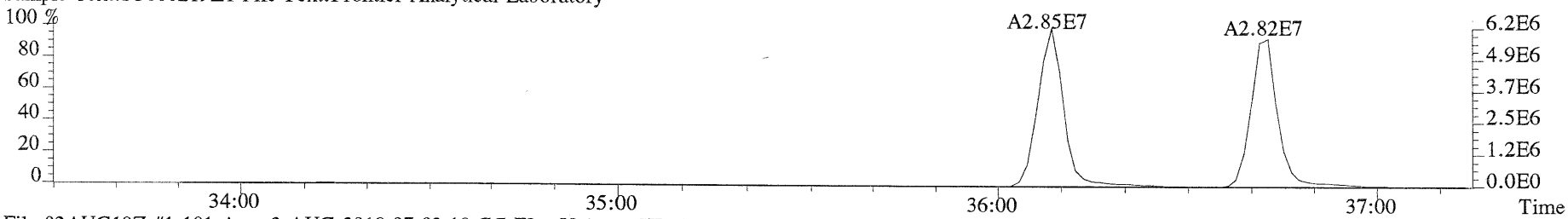
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



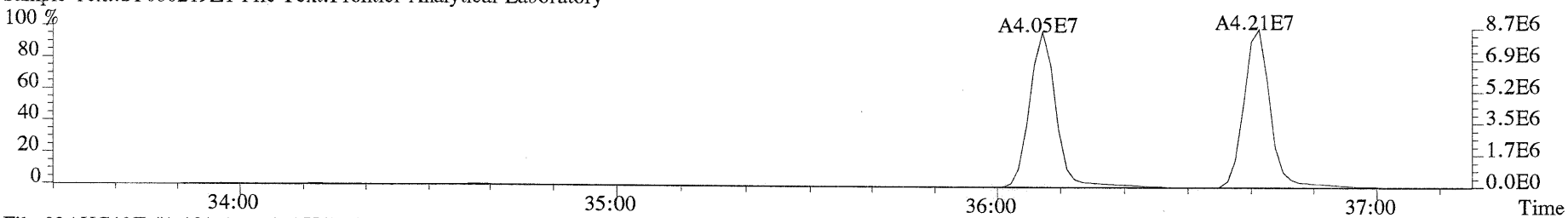
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



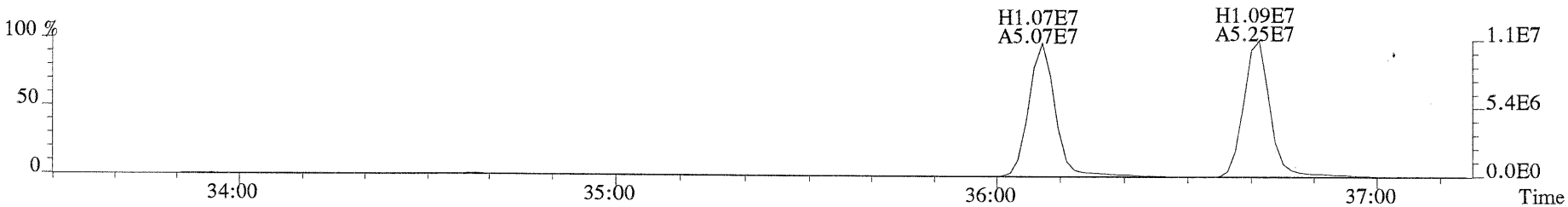
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



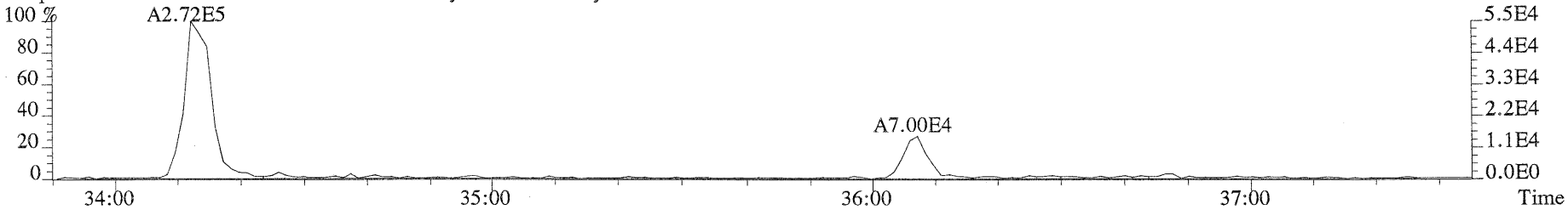
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



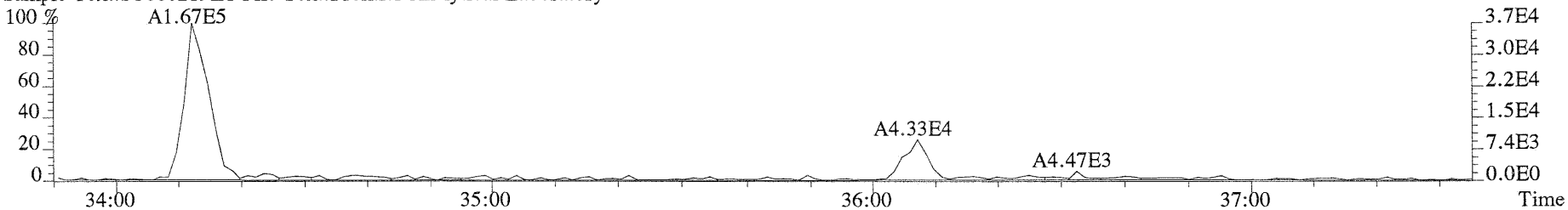
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



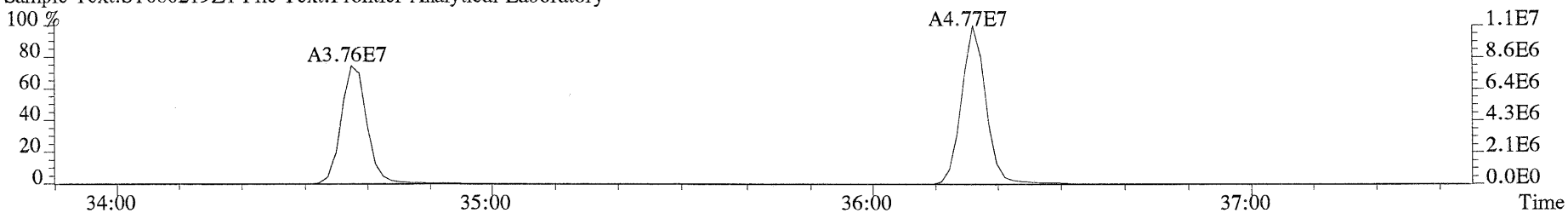
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



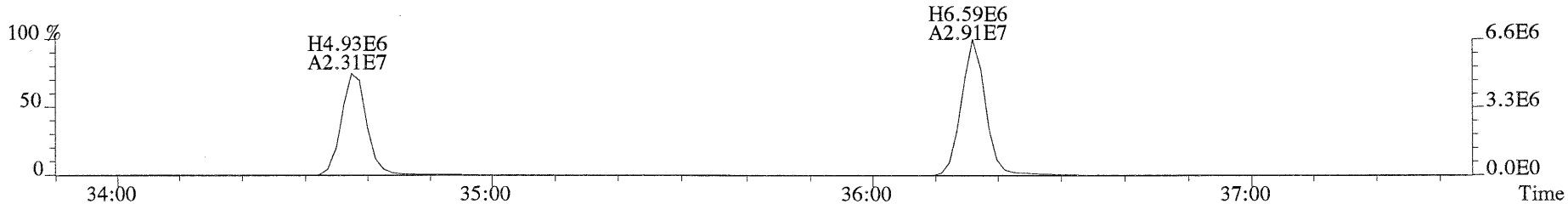
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



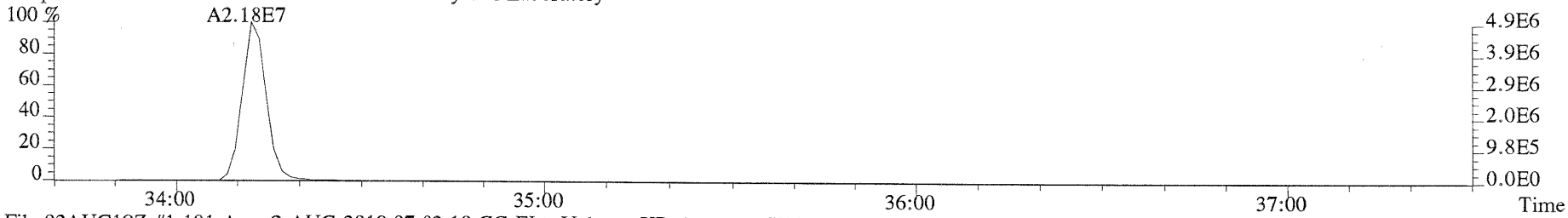
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



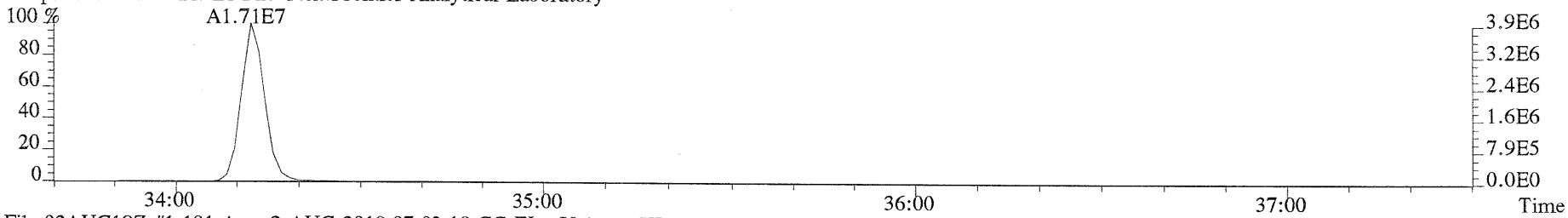
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



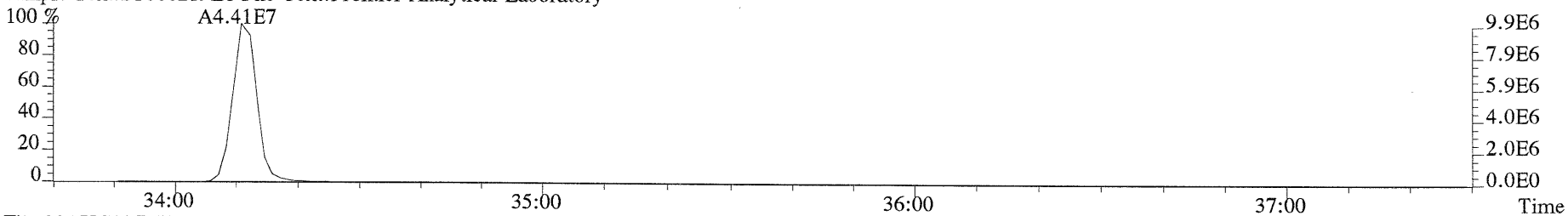
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



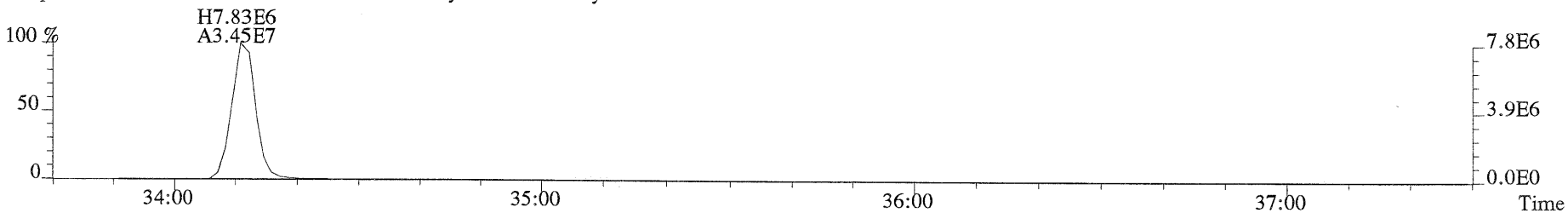
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



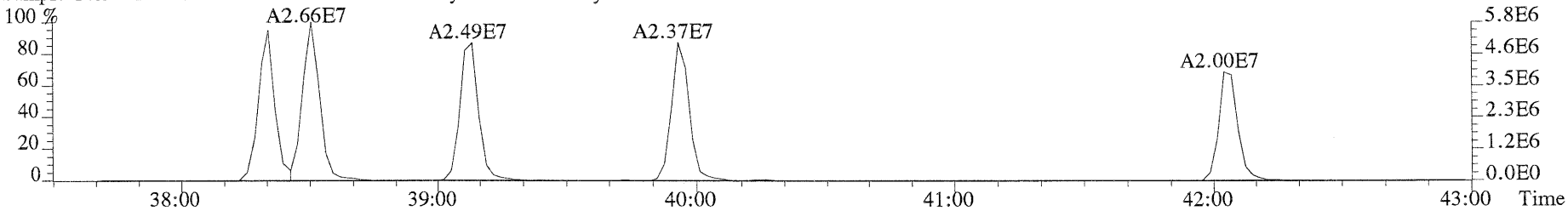
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



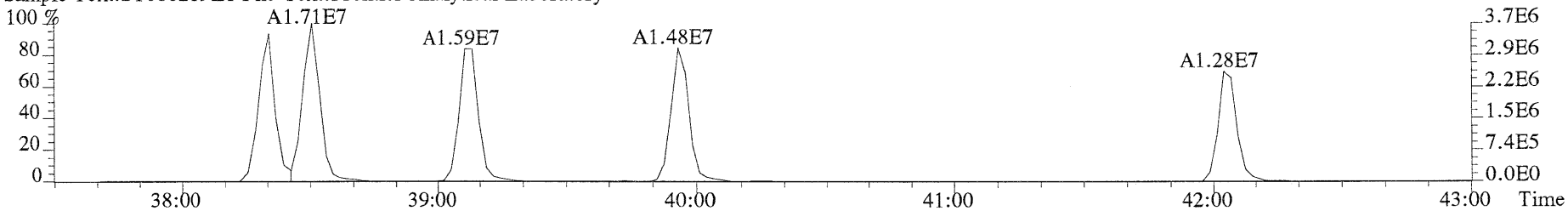
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



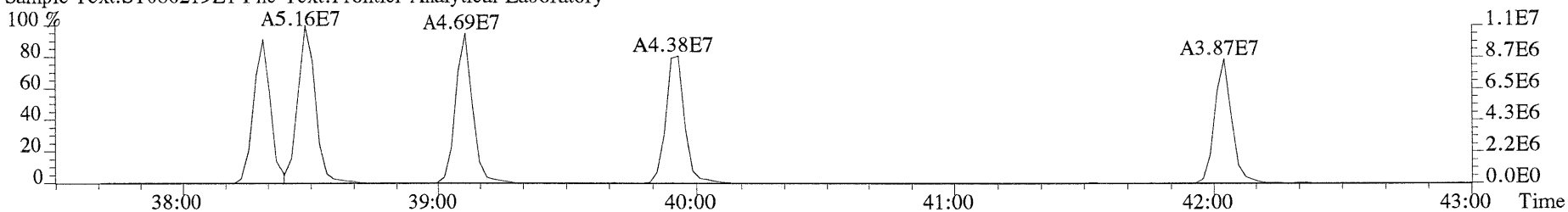
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



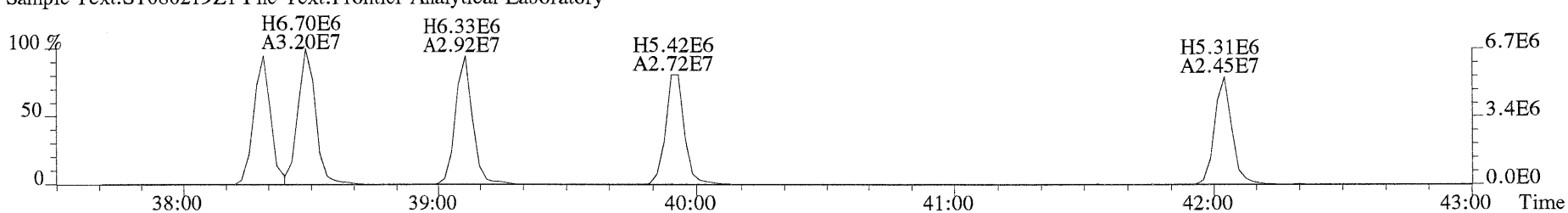
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



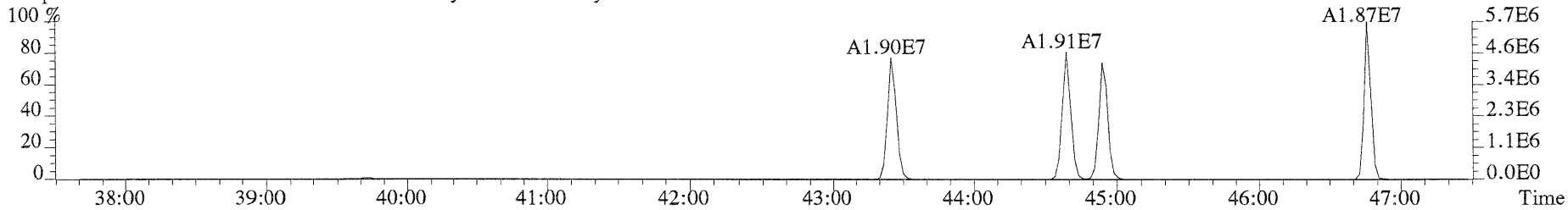
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



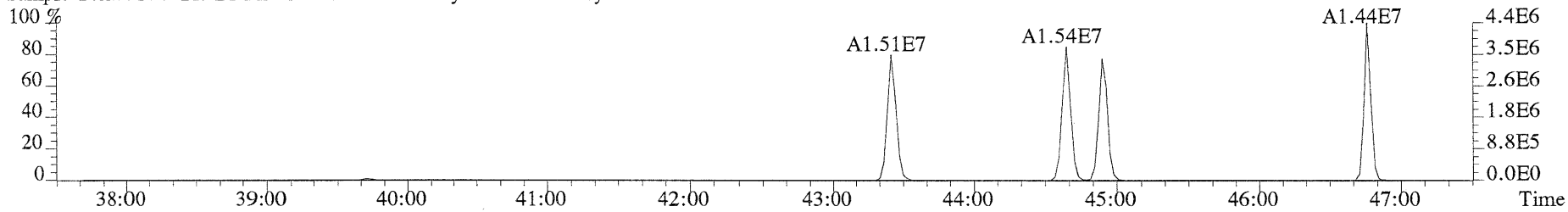
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



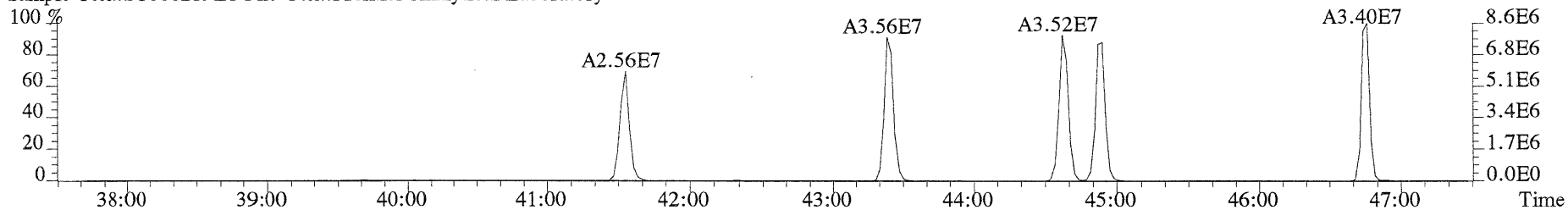
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



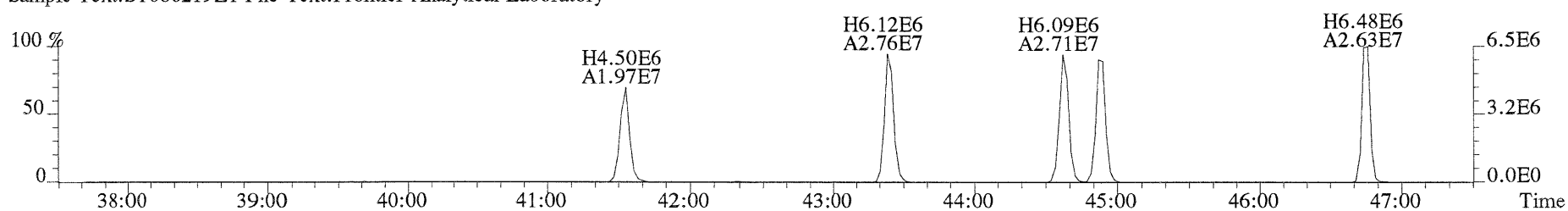
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



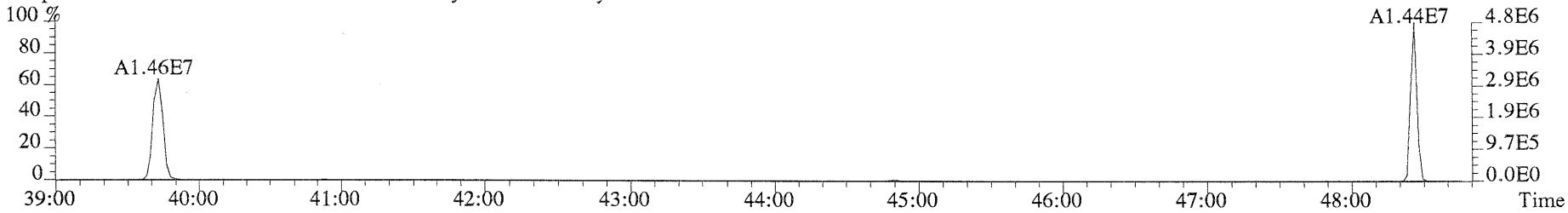
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



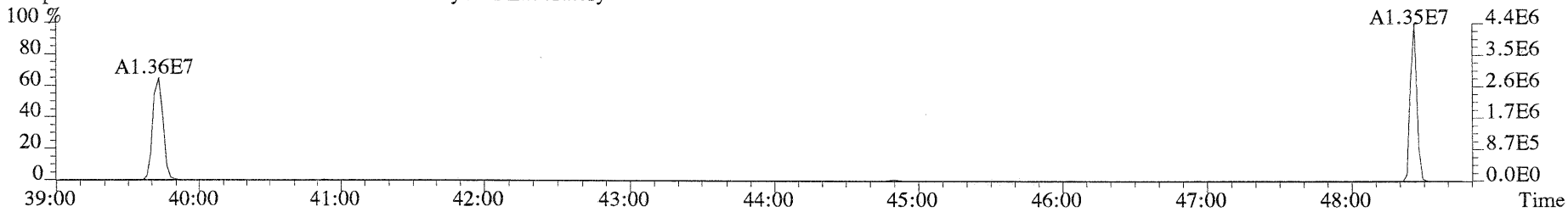
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



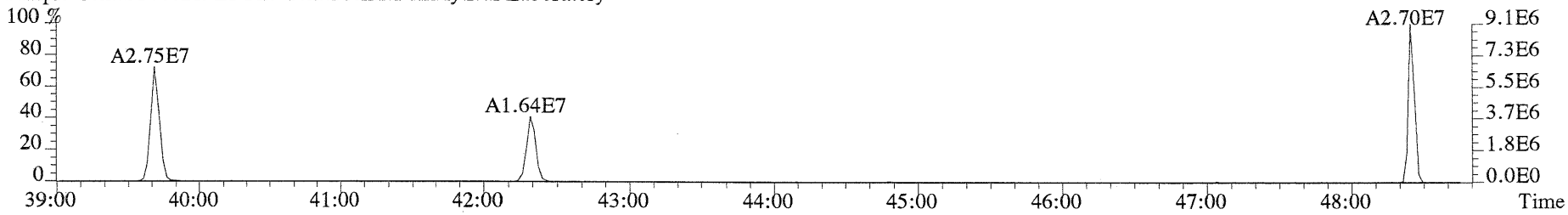
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



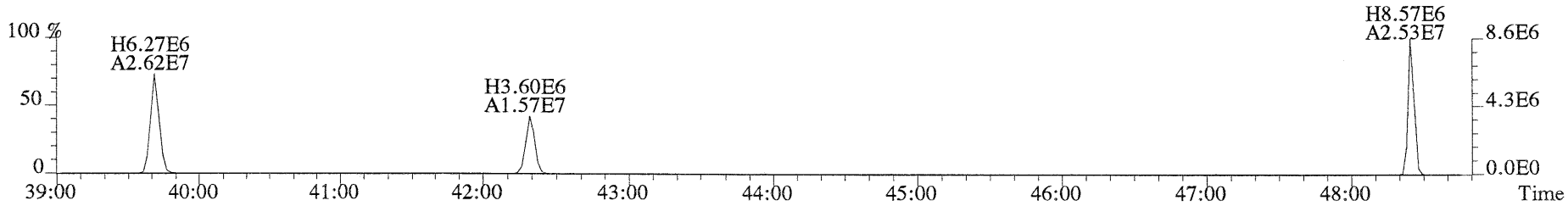
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



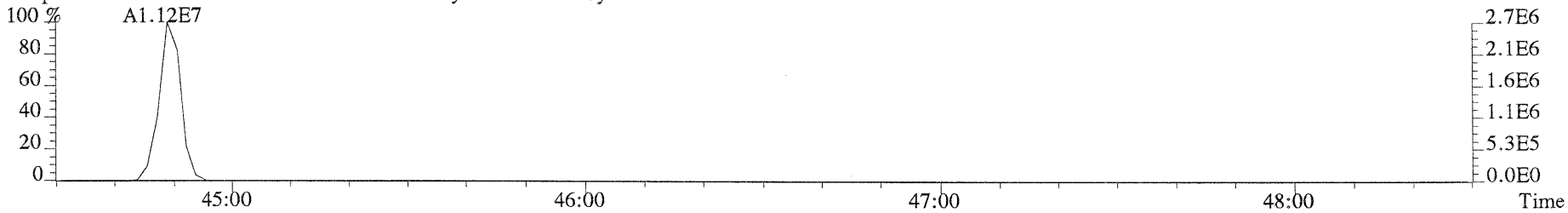
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



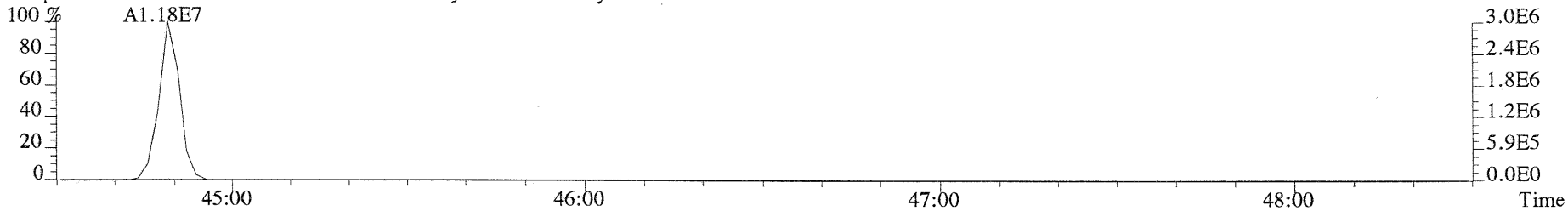
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



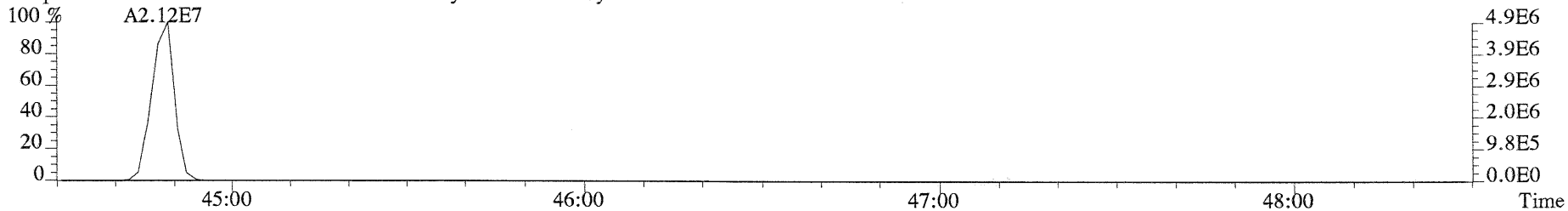
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



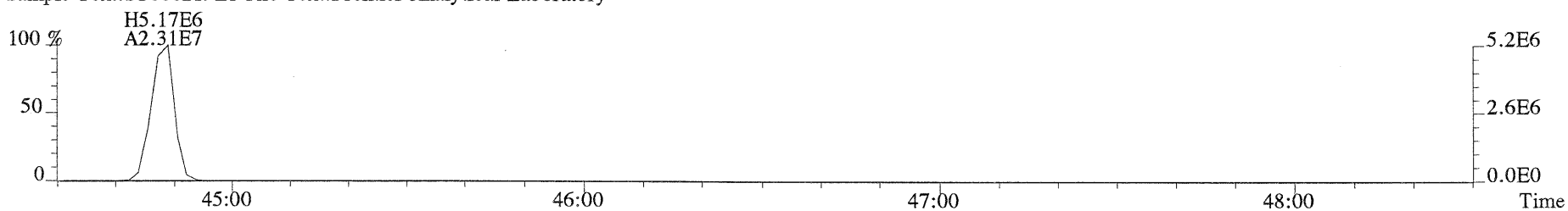
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



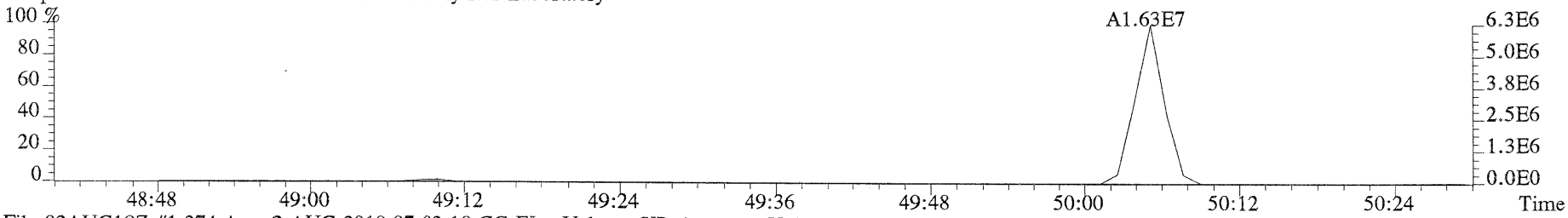
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



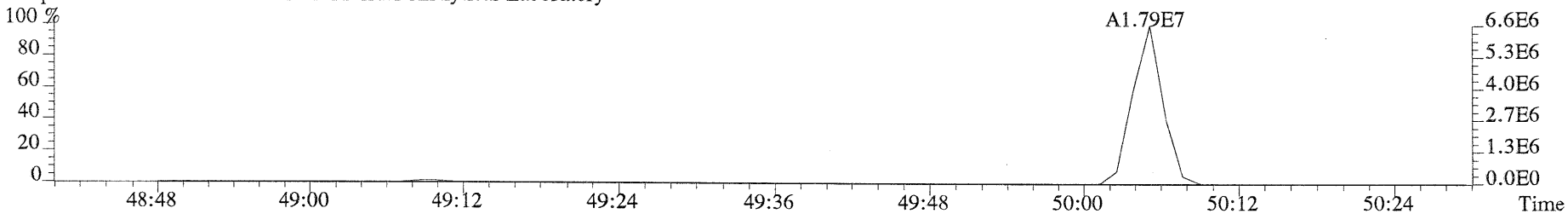
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



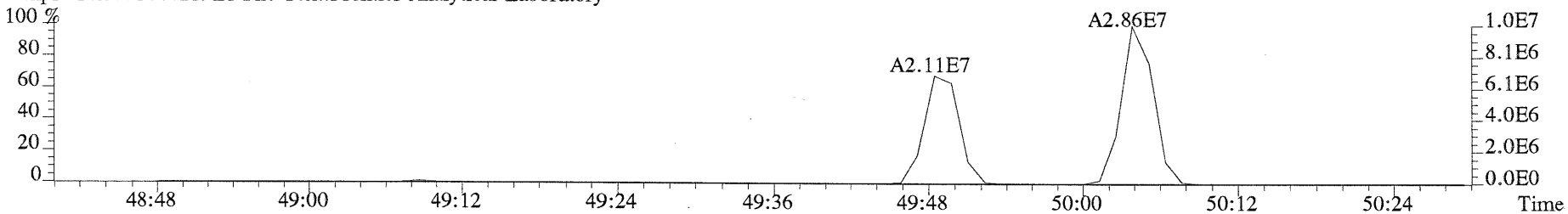
File:02AUG19Z #1-274 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



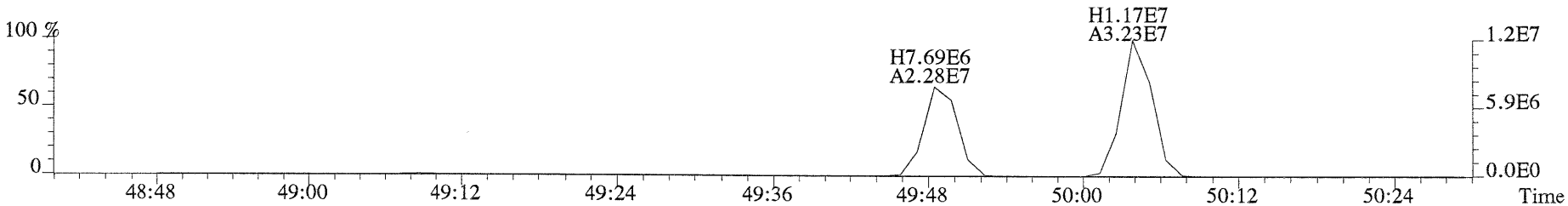
File:02AUG19Z #1-274 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



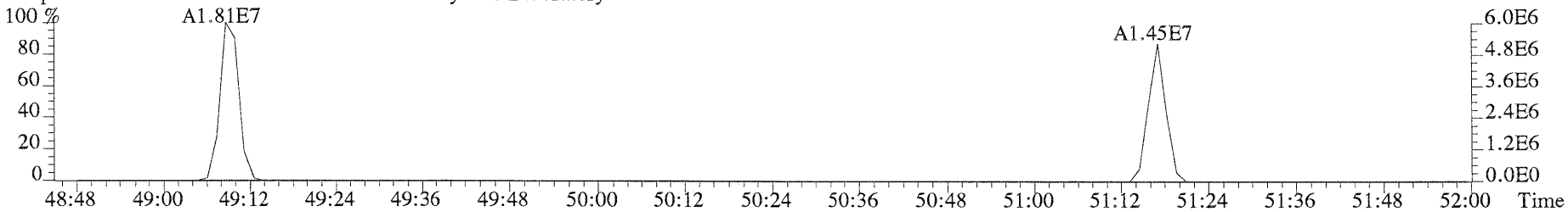
File:02AUG19Z #1-274 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



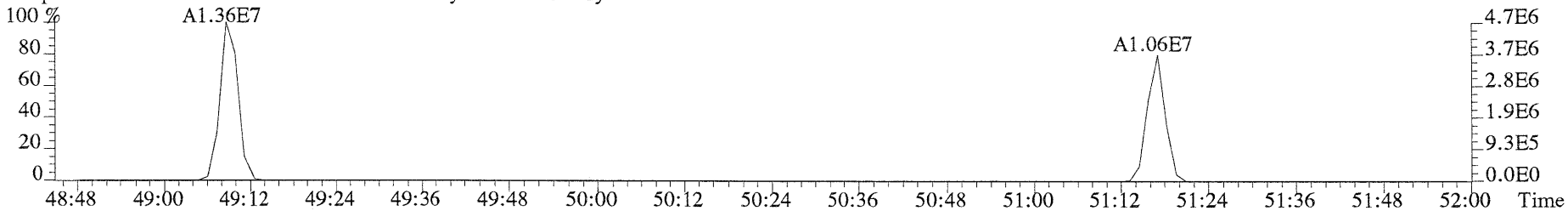
File:02AUG19Z #1-274 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



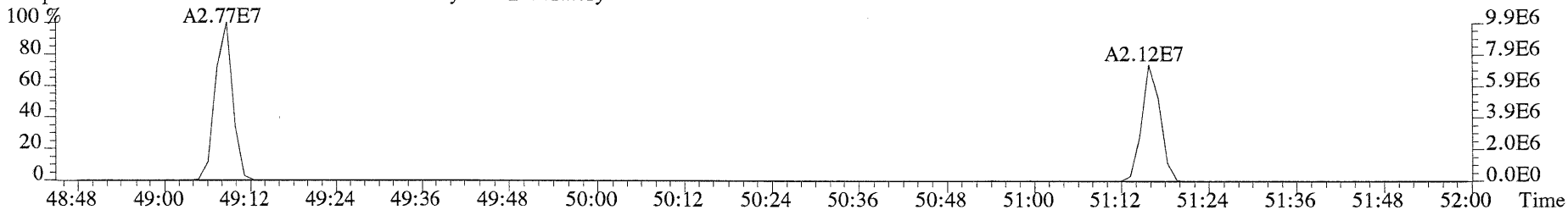
File:02AUG19Z #1-275 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



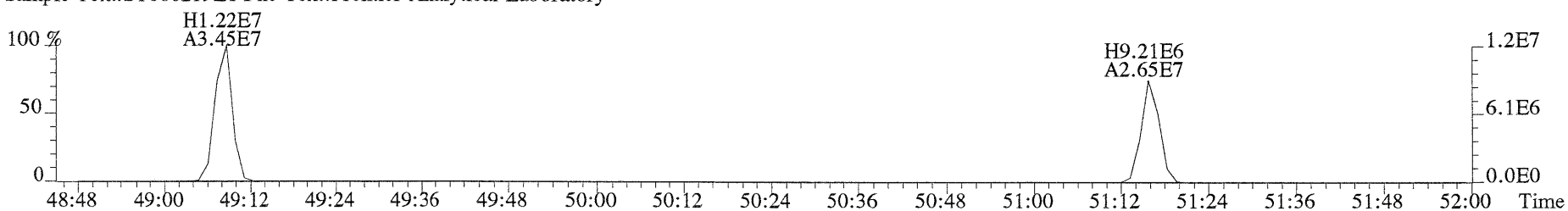
File:02AUG19Z #1-275 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



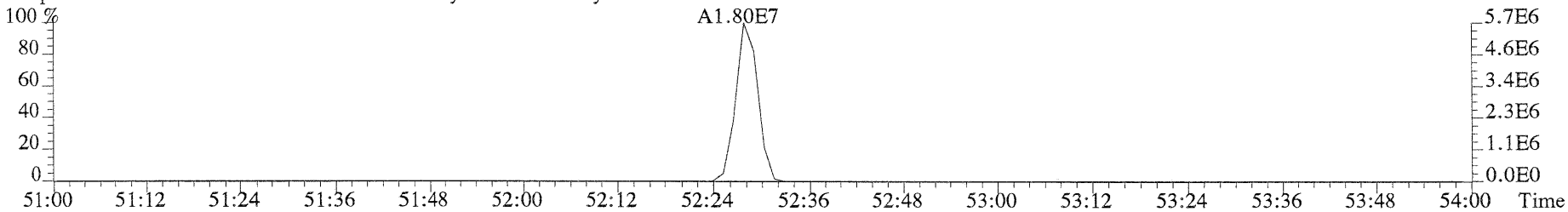
File:02AUG19Z #1-275 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



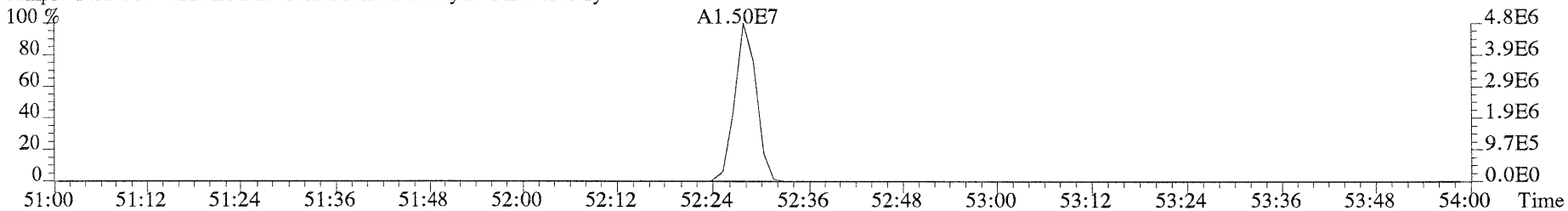
File:02AUG19Z #1-275 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



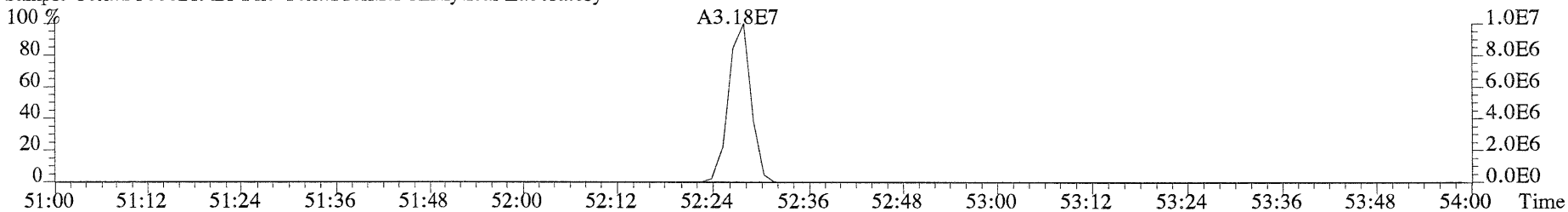
File:02AUG19Z #1-276 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-276 Acq: 2-AUG-2019 07:02:18 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:ST080219Z1 File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-276 Acq: 2-AUG-2019 07:02:18 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:ST080219Z1 File Text:Frontier Analytical Laboratory



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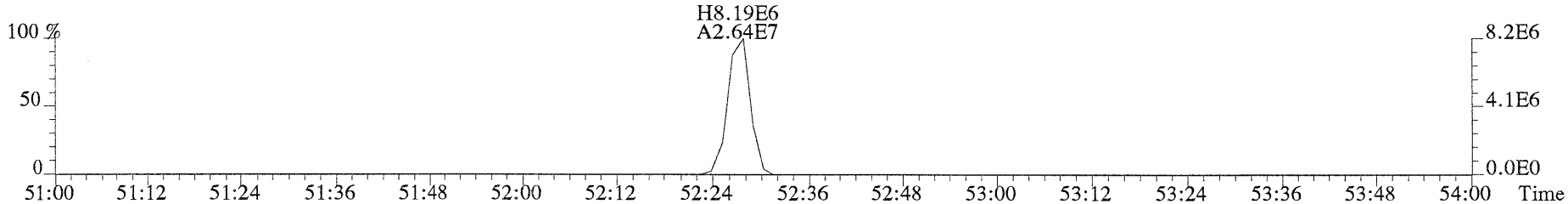
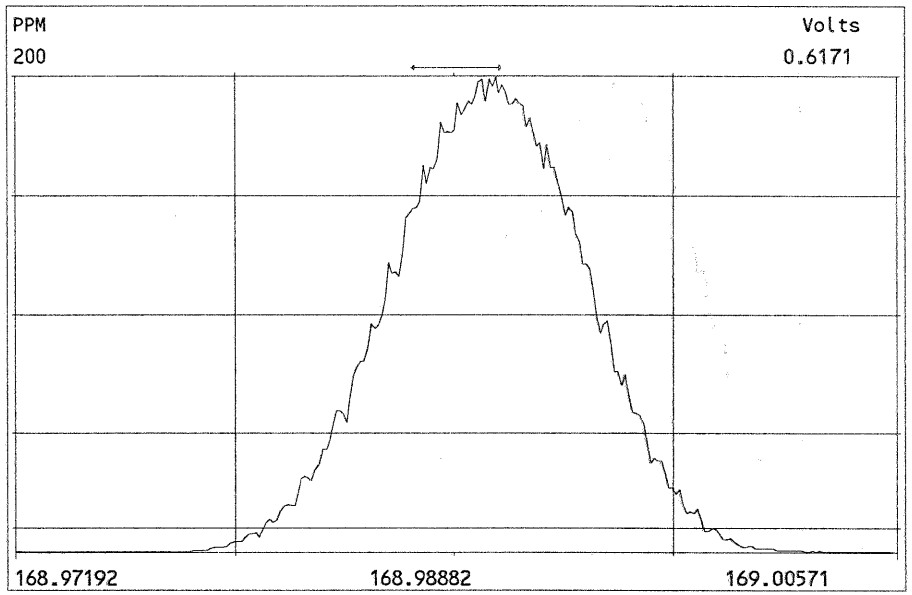
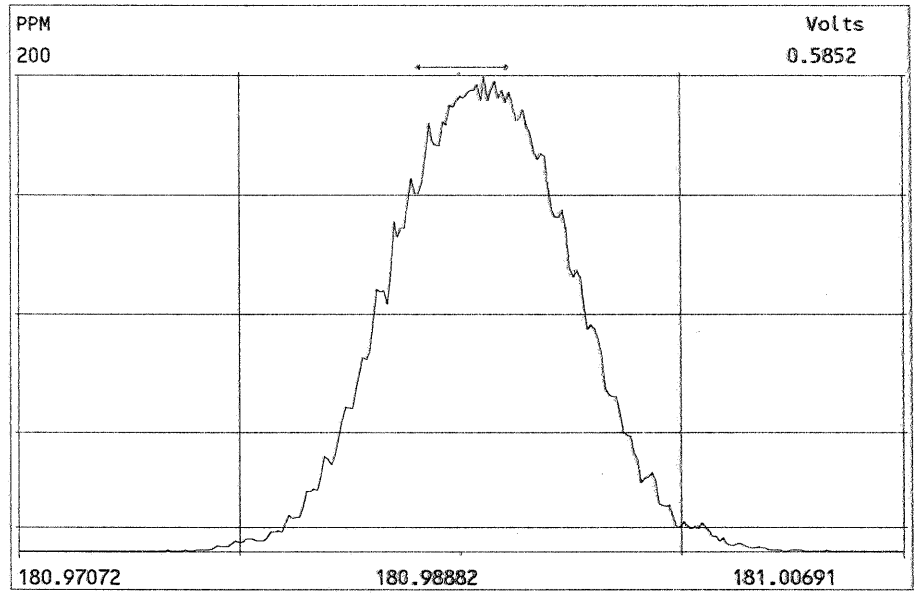
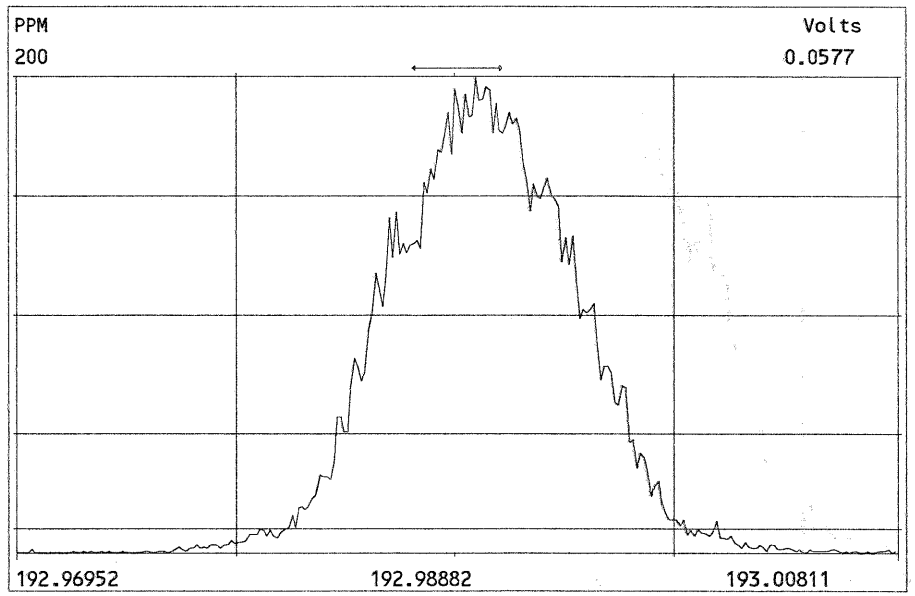
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory

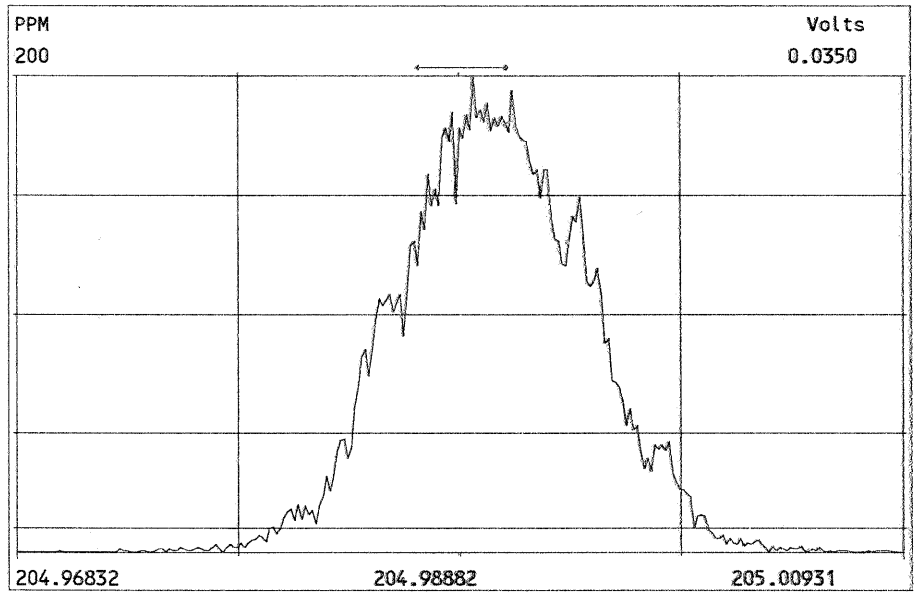


Peak Locate Examination: 2-AUG-2019:23:06 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

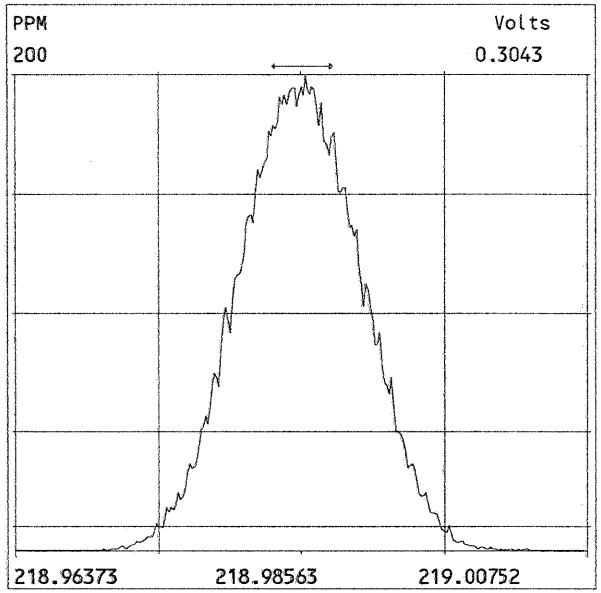


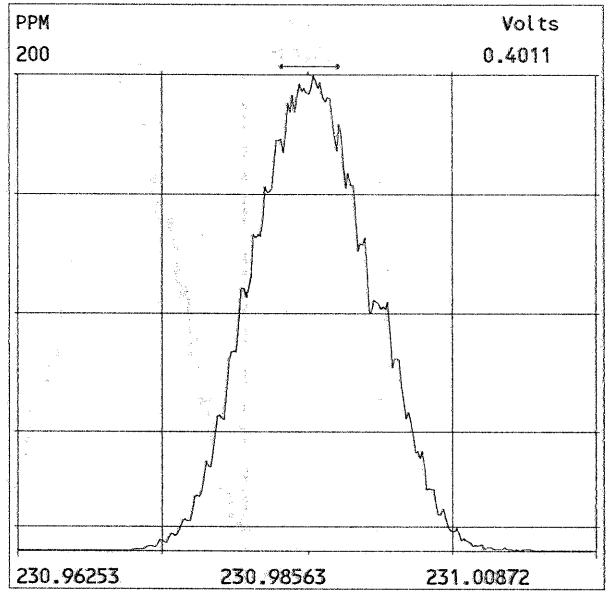


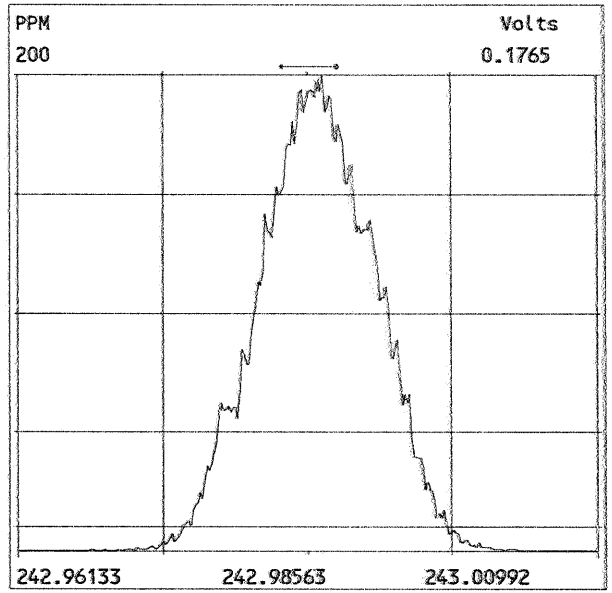


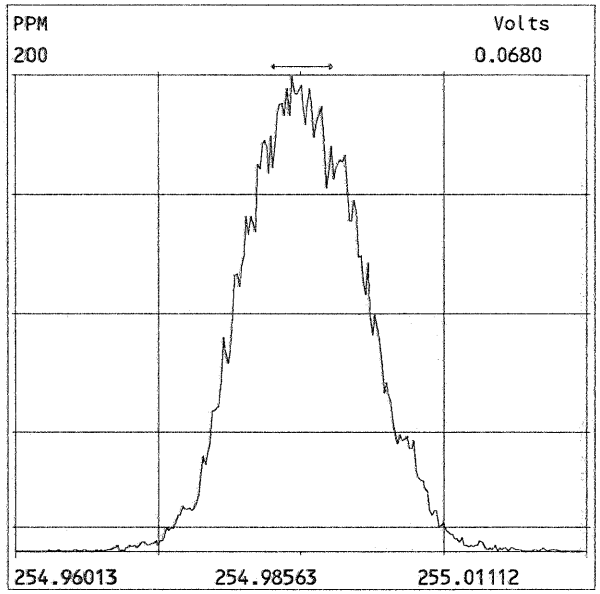


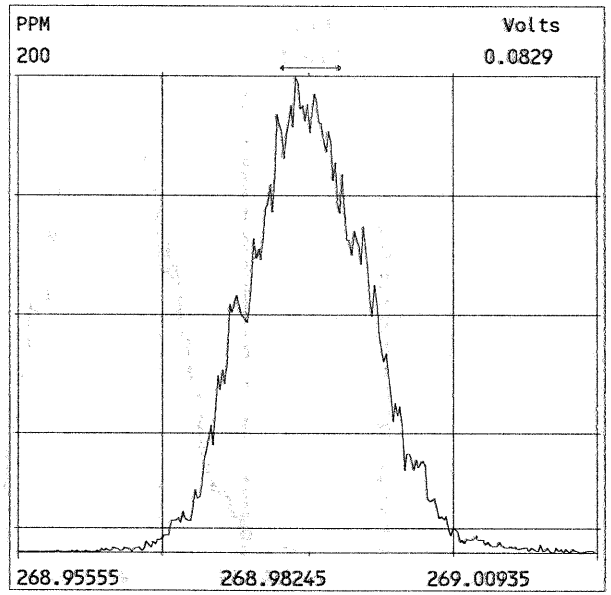
Peak Locate Examination: 2-AUG-2019:23:08 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

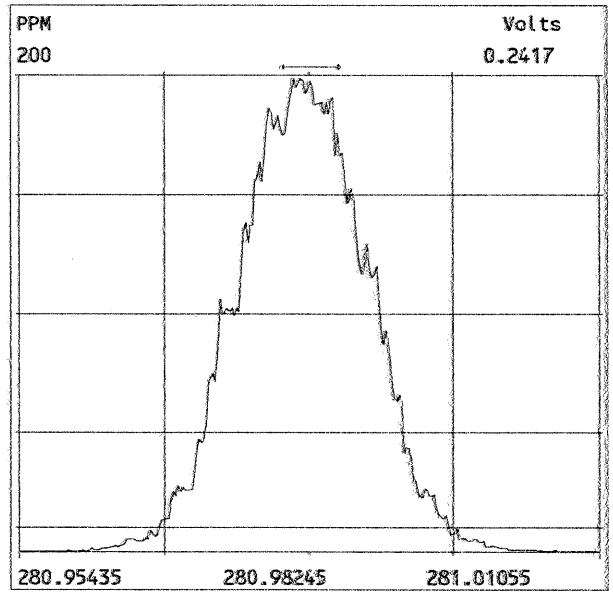




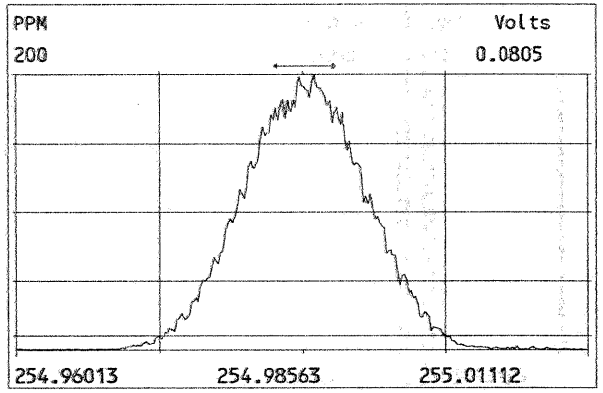


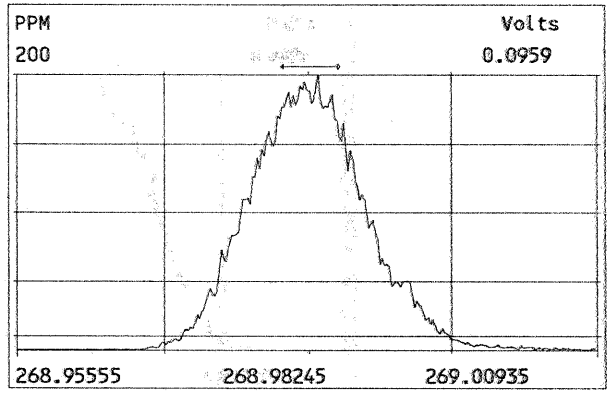


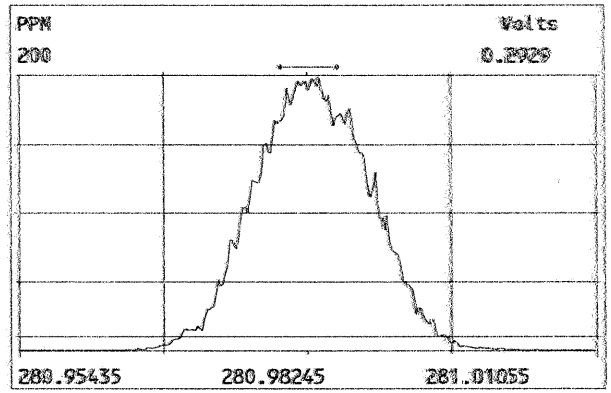


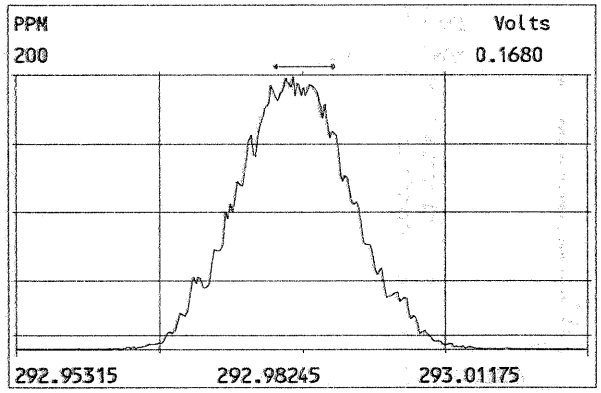


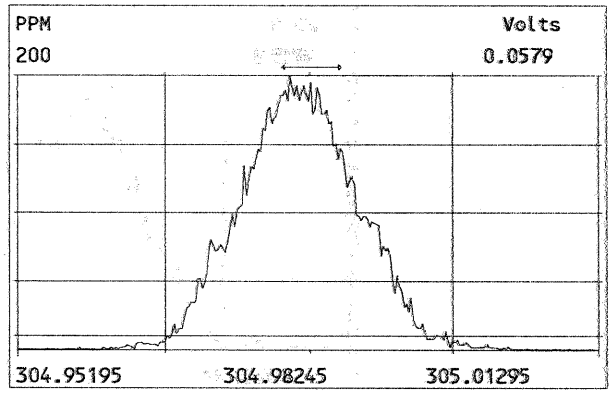
Peak Locate Examination: 2-AUG-2019:23:10 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

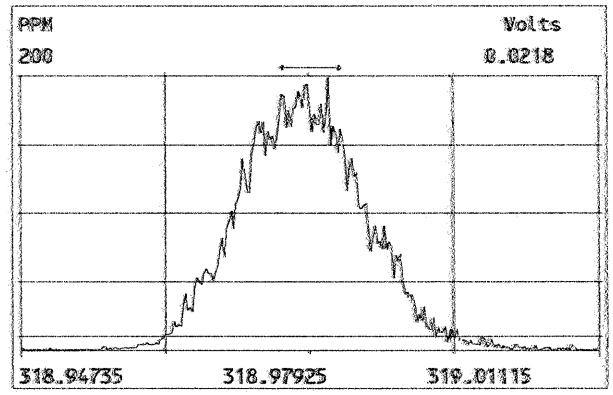


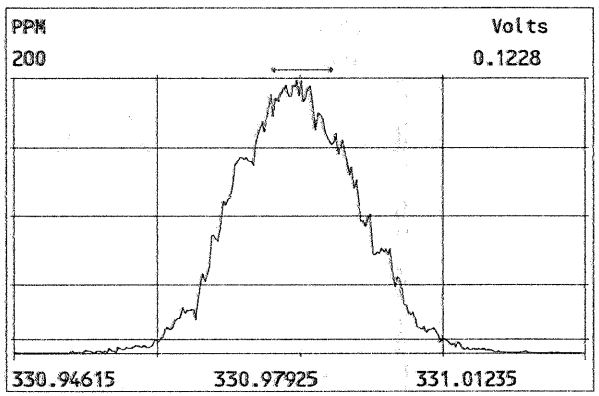


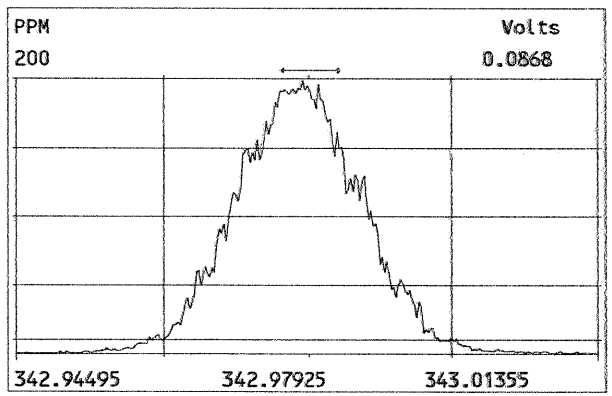




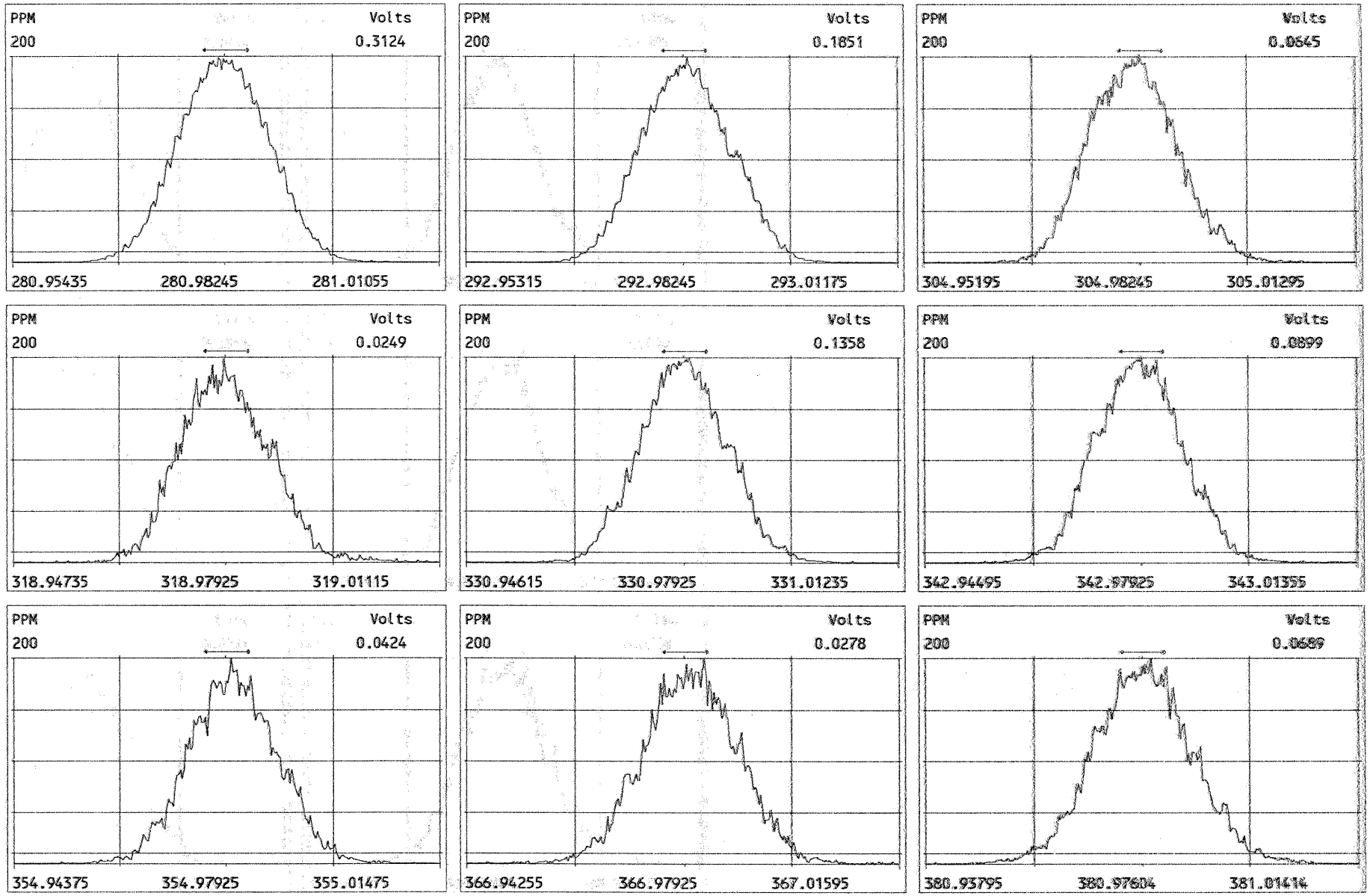




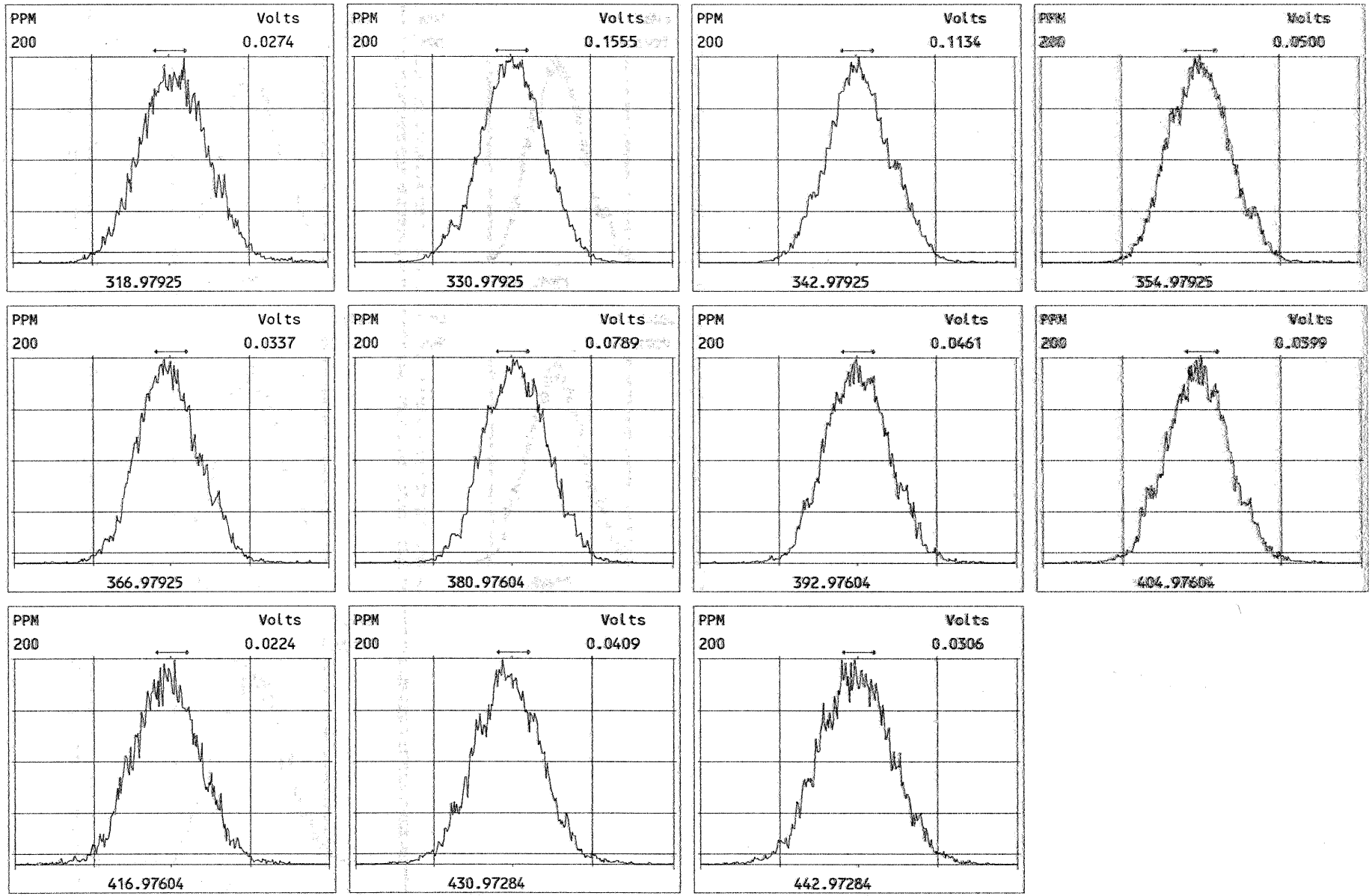




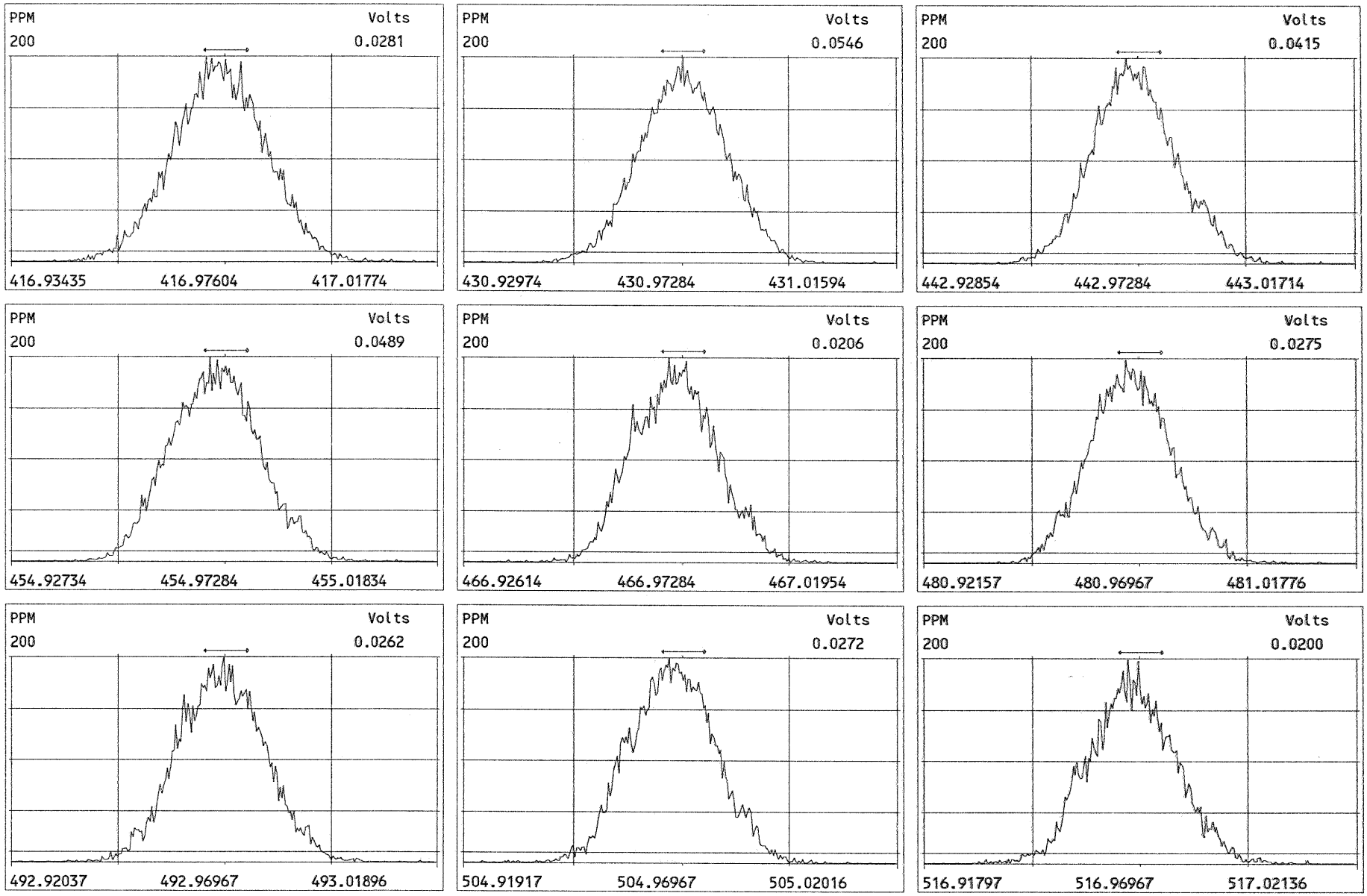
Peak Locate Examination: 2-AUG-2019:23:13 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK



Peak Locate Examination: 2-AUG-2019:23:15 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK



Peak Locate Examination: 2-AUG-2019:23:18 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK



Cal: DAILY209FAL4-8-2-19

Run: 02AUG19Z Analyte: DAILY209FAL4-8-2-19 Results: 12511-1 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:02AUG19Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.1591	-	1.16	
13C-PCB-1	0.9046	-	0.90	
PCB-2	1.1737	-	1.17	
PCB-3	1.1424	-	1.14	
13C-PCB-3	0.9220	-	0.92	
PCB-4	1.2450	-	1.24	
PCB-10	1.2128	-	1.21	
13C-PCB-4	0.6495	-	0.65	
PCB-9	1.3266	-	1.33	
PCB-7	1.3809	-	1.38	
PCB-6	1.4123	-	1.41	
PCB-8	1.2929	-	1.29	
PCB-5	1.3679	-	1.37	
PCB-14	1.2799	-	1.28	
PCB-11	1.2016	-	1.20	
PCB-13	1.2330	-	1.23	
PCB-12	1.2565	-	1.26	
PCB-15	1.1417	-	1.14	
13C-PCB-15	0.9808	-	0.98	
PCB-19	1.2243	-	1.22	
PCB-30	1.8439	-	1.84	
PCB-18	1.2213	-	1.22	
PCB-17	1.3064	-	1.31	
PCB-27	1.7859	-	1.79	
PCB-24	1.7772	-	1.78	
PCB-16	1.4689	-	1.47	
PCB-32	1.5441	-	1.54	
13C-PCB-19	0.4593	-	0.46	
13C-PCB-9	-	-	-	
PCB-34	1.2625	-	1.26	
PCB-23	1.2451	-	1.25	
PCB-29	1.2996	-	1.30	
PCB-26	1.2791	-	1.28	
PCB-25	1.2218	-	1.22	
PCB-31	1.2534	-	1.25	
PCB-28	1.4572	-	1.46	
PCB-20	1.1959	-	1.20	Co-elute PCB 21/33
PCB-21	1.1959	-	1.20	Co-elute PCB 20/33
PCB-33	1.1959	-	1.20	Co-elute PCB 20/21
PCB-22	1.2756	-	1.28	
PCB-36	1.1776	-	1.18	
PCB-39	1.1730	-	1.17	
PCB-38	1.1563	-	1.16	
PCB-35	1.0719	-	1.07	
PCB-37	1.1325	-	1.13	
13C-PCB-37	1.4779	-	1.48	

PCB-54	1.2639	-	1.26	
PCB-50	0.9806	-	0.98	
PCB-53	0.9718	-	0.97	
PCB-51	1.0033	-	1.00	
PCB-45	0.8407	-	0.84	
PCB-46	0.7973	-	0.80	
PCB-52	0.9657	-	0.97	Co-elute PCB 69
PCB-69	0.9657	-	0.97	Co-elute PCB 52
PCB-73	1.2685	-	1.27	
PCB-43	0.8665	-	0.87	Co-elute PCB 49
PCB-49	0.8665	-	0.87	Co-elute PCB 43
PCB-47	0.9184	-	0.92	
PCB-48	1.0698	-	1.07	Co-elute PCB 75
PCB-75	1.0698	-	1.07	Co-elute PCB 48
PCB-65	1.0634	-	1.06	
PCB-62	1.1606	-	1.16	
PCB-44	0.7208	-	0.72	
PCB-42	0.9425	-	0.94	Co-elute PCB 59
PCB-59	0.9425	-	0.94	Co-elute PCB 42
PCB-72	1.0594	-	1.06	Co-elute PCB 41/71/64
PCB-41	1.0594	-	1.06	Co-elute PCB 72/71/64
PCB-71	1.0594	-	1.06	Co-elute PCB 72/41/64
PCB-64	1.0594	-	1.06	Co-elute PCB 72/41/71
PCB-68	1.2055	-	1.21	
PCB-40	0.6563	-	0.66	
PCB-57	1.0928	-	1.09	
PCB-67	1.0783	-	1.08	
PCB-58	1.1020	-	1.10	
PCB-63	1.1038	-	1.10	
PCB-74	1.0765	-	1.08	
PCB-61	1.0291	-	1.03	Co-elute PCB 70
PCB-70	1.0291	-	1.03	Co-elute PCB 61
PCB-76	1.1287	-	1.13	Co-elute PCB 66
PCB-66	1.1287	-	1.13	Co-elute PCB 76
PCB-80	1.2968	-	1.30	
PCB-55	1.1291	-	1.13	
13C-PCB-54	1.1968	-	1.20	
PCB-104	1.1069	-	1.11	
PCB-96	1.0451	-	1.05	
PCB-103	0.8412	-	0.84	
PCB-100	0.8337	-	0.83	
PCB-94	0.6863	-	0.69	
PCB-98	0.7155	-	0.72	Co-elute PCB 102
PCB-102	0.7155	-	0.72	Co-elute PCB 98
PCB-95	0.7131	-	0.71	
PCB-93	0.6939	-	0.69	
PCB-88	0.7657	-	0.77	Co-elute PCB 91
PCB-91	0.7657	-	0.77	Co-elute PCB 88
PCB-121	0.9259	-	0.93	
13C-PCB-104	0.9226	-	0.92	
13C-PCB-28	1.8280	-	1.83	
13C-PCB-52	-	-	-	

PCB-56	1.2624	-	1.26	Co-elute PCB 60
PCB-60	1.2624	-	1.26	Co-elute PCB 56
PCB-79	1.1903	-	1.19	
PCB-78	1.0987	-	1.10	
PCB-81	1.2366	-	1.24	
13C-PCB-81	1.3750	-	1.38	
PCB-77	1.0487	-	1.05	
13C-PCB-77	1.4252	-	1.43	
PCB-155	1.0301	-	1.03	
PCB-150	0.9878	-	0.99	
PCB-152	0.8956	-	0.90	
PCB-145	0.8569	-	0.86	
PCB-136	0.8090	-	0.81	
PCB-148	0.6030	-	0.60	
PCB-154	0.6800	-	0.68	
13C-PCB-155	1.2311	-	1.23	
13C-PCB-111	1.0839	-	1.08	
13C-PCB-101	-	-	-	
PCB-84	0.8742	-	0.87	Co-elute PCB 92
PCB-92	0.8742	-	0.87	Co-elute PCB 84
PCB-89	0.8736	-	0.87	
PCB-90	0.9783	-	0.98	Co-elute PCB 101
PCB-101	0.9783	-	0.98	Co-elute PCB 90
PCB-113	1.0914	-	1.09	
PCB-99	1.1167	-	1.12	
PCB-119	1.2045	-	1.20	
PCB-83	0.8811	-	0.88	Co-elute PCB 112
PCB-112	0.8811	-	0.88	Co-elute PCB 83
PCB-109	1.0622	-	1.06	
PCB-97	0.7182	-	0.72	
PCB-86	0.7105	-	0.71	
PCB-125	0.9529	-	0.95	Co-elute PCB 87/117
PCB-87	0.9529	-	0.95	Co-elute PCB 125/117
PCB-117	0.9529	-	0.95	Co-elute PCB 125/87
PCB-111	1.1514	-	1.15	Co-elute PCB 115
PCB-115	1.1514	-	1.15	Co-elute PCB 111
PCB-85	0.8682	-	0.87	Co-elute PCB 116
PCB-116	0.8682	-	0.87	Co-elute PCB 85
PCB-120	1.1255	-	1.13	
PCB-110	1.0357	-	1.04	
PCB-82	0.6002	-	0.60	
PCB-124	1.0380	-	1.04	
PCB-108	1.1007	-	1.10	Co-elute PCB 107
PCB-107	1.1007	-	1.10	Co-elute PCB 108
PCB-123	1.0549	-	1.05	
13C-PCB-123	1.3134	-	1.31	
PCB-118	1.0434	-	1.04	Co-elute PCB 106
PCB-106	1.0434	-	1.04	Co-elute PCB 118
13C-PCB-118	1.5087	-	1.51	
PCB-114	1.1125	-	1.11	
13C-PCB-114	1.4204	-	1.42	
PCB-122	1.0721	-	1.07	
PCB-105	1.1348	-	1.13	
13C-PCB-105	1.4397	-	1.44	
PCB-127	1.0503	-	1.05	
PCB-126	1.0785	-	1.08	
13C-PCB-126	1.3625	-	1.36	

PCB-151	0.7606	-	0.76	
PCB-135	0.7839	-	0.78	
PCB-144	0.8048	-	0.80	
PCB-147	0.9169	-	0.92	
PCB-139	0.8897	-	0.89	Co-elute PCB 149
PCB-149	0.8897	-	0.89	Co-elute PCB 139
PCB-140	0.8658	-	0.87	
PCB-143	0.7485	-	0.75	Co-elute PCB 134
PCB-134	0.7485	-	0.75	Co-elute PCB 143
PCB-131	0.7198	-	0.72	Co-elute PCB 133
PCB-133	0.7198	-	0.72	Co-elute PCB 131
PCB-142	0.7357	-	0.74	
PCB-165	1.0098	-	1.01	Co-elute PCB 146
PCB-146	1.0098	-	1.01	Co-elute PCB 165
PCB-161	0.9397	-	0.94	Co-elute PCB 132
PCB-132	0.9397	-	0.94	Co-elute PCB 161
PCB-153	0.9593	-	0.96	
PCB-168	1.0942	-	1.09	
PCB-141	0.7934	-	0.79	
PCB-137	0.8341	-	0.83	
PCB-130	0.6925	-	0.69	
PCB-138	1.0253	-	1.03	Co-elute PCB 163/164
PCB-163	1.0253	-	1.03	Co-elute PCB 138/164
PCB-164	1.0253	-	1.03	Co-elute PCB 138/163
PCB-158	1.1264	-	1.13	Co-elute PCB 160
PCB-160	1.1264	-	1.13	Co-elute PCB 158
PCB-129	0.6966	-	0.70	
PCB-166	1.0906	-	1.09	
PCB-159	1.1673	-	1.17	
PCB-128	0.9349	-	0.93	Co-elute PCB 162
PCB-162	0.9349	-	0.93	Co-elute PCB 128
PCB-167	1.1128	-	1.11	
13C-PCB-167	1.2161	-	1.22	
PCB-156	1.1951	-	1.20	
13C-PCB-156	1.2304	-	1.23	
PCB-157	1.1076	-	1.11	
13C-PCB-157	1.2494	-	1.25	
PCB-169	1.0539	-	1.05	
13C-PCB-169	1.2809	-	1.28	
PCB-188	1.0730	-	1.07	
13C-PCB-188	1.0483	-	1.05	

PCB-184	1.0550	-	1.06	
PCB-179	1.0279	-	1.03	
PCB-176	1.0262	-	1.03	
PCB-186	1.0221	-	1.02	
PCB-178	0.6586	-	0.66	
PCB-175	0.7762	-	0.78	
PCB-187	0.8270	-	0.83	Co-elute PCB 182
PCB-182	0.8270	-	0.83	Co-elute PCB 187
PCB-183	0.8088	-	0.81	
PCB-185	0.7246	-	0.72	
PCB-174	0.7177	-	0.72	
PCB-181	0.8135	-	0.81	
PCB-177	0.6495	-	0.65	
PCB-171	0.7594	-	0.76	
PCB-173	0.6899	-	0.69	
PCB-172	0.7319	-	0.73	
PCB-192	0.9647	-	0.96	
PCB-180	0.7302	-	0.73	
PCB-193	1.0330	-	1.03	
PCB-191	1.0206	-	1.02	
PCB-170	0.7315	-	0.73	
PCB-190	1.0487	-	1.05	
PCB-189	1.0567	-	1.06	
13C-PCB-189	1.0631	-	1.06	
PCB-202	1.0509	-	1.05	
PCB-201	1.0095	-	1.01	
PCB-204	1.1338	-	1.13	
PCB-197	1.0953	-	1.10	
PCB-200	1.0426	-	1.04	
PCB-198	0.7563	-	0.76	
PCB-199	0.8603	-	0.86	
PCB-203	0.9327	-	0.93	Co-elute PCB 196
PCB-196	0.9327	-	0.93	Co-elute PCB 203
13C-PCB-202	0.8499	-	0.85	
13C-PCB-178	0.6643	-	0.66	
13C-PCB-138	-	-	-	
PCB-195	0.7797	-	0.78	
PCB-194	0.8531	-	0.85	
PCB-205	1.1023	-	1.10	
13C-PCB-205	1.3006	-	1.30	
PCB-208	1.0582	-	1.06	
13C-PCB-208	1.1993	-	1.20	
PCB-207	1.1787	-	1.18	
PCB-206	1.0734	-	1.07	
13C-PCB-206	0.9376	-	0.94	
PCB-209	1.1162	-	1.12	
13C-PCB-209	1.2159	-	1.22	
13C-PCB-194	-	-	-	

Analyst: [signature] Date: 8/2/19

Run #1 Filename 02AUG19Z S: 2 Acquired: 2-AUG-19 08:00:38 Cal: DAILY209FAL4-8-2-19
Client ID: SS080219Z1 Analyte: FAL ID: Daily 209 190408A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	8.92e+07	3.16 y	14:33	-	1.16	
2	IS/RT	13C-PCB-1	100.00	1.54e+08	3.21 y	14:31	-	0.905	
3	Unk	PCB-2	50.00	9.12e+07	3.15 y	16:45	-	1.17	
4	Unk	PCB-3	50.00	8.96e+07	3.12 y	16:58	-	1.14	
5	IS/RT	13C-PCB-3	100.00	1.57e+08	3.30 y	16:57	-	0.922	
6	Unk	PCB-4	50.00	6.88e+07	1.49 y	18:12	-	1.24	
7	Unk	PCB-10	50.00	8.41e+07	1.60 y	18:16	-	1.21	
8	IS/RT	13C-PCB-4	100.00	1.11e+08	1.57 y	18:11	-	0.650	
9	Unk	PCB-9	50.00	9.20e+07	1.49 y	19:54	-	1.33	
10	Unk	PCB-7	50.00	9.58e+07	1.59 y	19:56	-	1.38	
11	Unk	PCB-6	50.00	9.80e+07	1.55 y	20:31	-	1.41	
12	Unk	PCB-8	50.00	8.97e+07	1.50 y	20:53	-	1.29	
13	Unk	PCB-5	50.00	9.49e+07	1.56 y	20:56	-	1.37	
14	Unk	PCB-14	50.00	8.88e+07	1.54 y	21:56	-	1.28	
15	Unk	PCB-11	50.00	8.33e+07	1.52 y	23:04	-	1.20	
16	Unk	PCB-13	50.00	8.55e+07	1.52 y	23:25	-	1.23	
17	Unk	PCB-12	50.00	8.72e+07	1.55 y	23:27	-	1.26	
18	Unk	PCB-15	50.00	9.53e+07	1.50 y	23:44	-	1.14	
19	IS/RT	13C-PCB-15	100.00	1.67e+08	1.59 y	23:42	-	0.981	
20	Unk	PCB-19	50.00	4.78e+07	1.05 y	22:05	-	1.22	
21	Unk	PCB-30	50.00	7.21e+07	1.07 y	22:56	-	1.84	
22	Unk	PCB-18	50.00	4.77e+07	1.08 y	23:38	-	1.22	
23	Unk	PCB-17	50.00	5.11e+07	1.05 y	23:48	-	1.31	
24	Unk	PCB-27	50.00	6.98e+07	1.01 y	24:20	-	1.79	
25	Unk	PCB-24	50.00	6.95e+07	1.13 y	24:21	-	1.78	
26	Unk	PCB-16	50.00	5.74e+07	1.08 y	24:49	-	1.47	
27	Unk	PCB-32	50.00	6.03e+07	1.04 y	24:50	-	1.54	
28	IS/RT	13C-PCB-19	100.00	7.82e+07	1.08 y	22:04	-	0.459	
29	RS	13C-PCB-9	100.00	1.70e+08	1.59 y	19:52	1.70e+06	-	
30	Unk	PCB-34	50.00	7.56e+07	1.02 y	25:35	-	1.26	
31	Unk	PCB-23	50.00	7.45e+07	1.02 y	25:40	-	1.25	
32	Unk	PCB-29	50.00	7.78e+07	1.04 y	25:54	-	1.30	
33	Unk	PCB-26	50.00	7.66e+07	1.02 y	26:06	-	1.28	
34	Unk	PCB-25	50.00	7.32e+07	1.02 y	26:16	-	1.22	
35	Unk	PCB-31	50.00	7.50e+07	1.02 y	26:36	-	1.25	
36	Unk	PCB-28	50.00	8.73e+07	1.00 y	26:41	-	1.46	
37	Unk	PCB-20	150.00	2.15e+08	1.03 y	27:16	-	1.20	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	2.15e+08	1.03 y	27:16	-	1.20	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	2.15e+08	1.03 y	27:16	-	1.20	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	7.64e+07	1.04 y	27:42	-	1.28	
41	Unk	PCB-36	50.00	7.05e+07	1.04 y	28:16	-	1.18	
42	Unk	PCB-39	50.00	7.02e+07	1.03 y	28:44	-	1.17	
43	Unk	PCB-38	50.00	6.92e+07	1.03 y	29:27	-	1.16	
44	Unk	PCB-35	50.00	6.42e+07	1.04 y	29:57	-	1.07	
45	Unk	PCB-37	50.00	6.78e+07	1.02 y	30:22	-	1.13	
46	IS	13C-PCB-37	100.00	1.20e+08	1.06 y	30:21	-	1.48	

47	Unk	PCB-54	100.00	1.23e+08	0.80	y	25:38	-	1.26	
48	Unk	PCB-50	100.00	9.51e+07	0.80	y	26:43	-	0.981	
49	Unk	PCB-53	100.00	9.42e+07	0.80	y	27:20	-	0.972	
50	Unk	PCB-51	100.00	9.73e+07	0.79	y	27:39	-	1.00	
51	Unk	PCB-45	100.00	8.15e+07	0.79	y	28:04	-	0.841	
52	Unk	PCB-46	100.00	7.73e+07	0.80	y	28:31	-	0.797	
53	Unk	PCB-52	200.00	1.87e+08	0.79	y	28:59	-	0.966	Co-elute PCB 69
54	Unk	PCB-69	200.00	1.87e+08	0.79	y	28:59	-	0.966	Co-elute PCB 52
55	Unk	PCB-73	100.00	1.23e+08	0.80	y	29:04	-	1.27	
56	Unk	PCB-43	200.00	1.68e+08	0.79	y	29:14	-	0.867	Co-elute PCB 49
57	Unk	PCB-49	200.00	1.68e+08	0.79	y	29:14	-	0.867	Co-elute PCB 43
58	Unk	PCB-47	100.00	8.91e+07	0.77	y	29:27	-	0.918	
59	Unk	PCB-48	200.00	2.08e+08	0.80	y	29:33	-	1.07	Co-elute PCB 75
60	Unk	PCB-75	200.00	2.08e+08	0.80	y	29:33	-	1.07	Co-elute PCB 48
61	Unk	PCB-65	100.00	1.03e+08	0.78	y	29:48	-	1.06	
62	Unk	PCB-62	100.00	1.13e+08	0.80	y	29:54	-	1.16	
63	Unk	PCB-44	100.00	6.99e+07	0.82	y	30:11	-	0.721	
64	Unk	PCB-42	200.00	1.83e+08	0.80	y	30:23	-	0.943	Co-elute PCB 59
65	Unk	PCB-59	200.00	1.83e+08	0.80	y	30:23	-	0.943	Co-elute PCB 42
66	Unk	PCB-72	400.00	4.11e+08	0.79	y	30:58	-	1.06	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	4.11e+08	0.79	y	30:58	-	1.06	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	4.11e+08	0.79	y	30:58	-	1.06	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	4.11e+08	0.79	y	30:58	-	1.06	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	1.17e+08	0.80	y	31:11	-	1.21	
71	Unk	PCB-40	100.00	6.37e+07	0.79	y	31:24	-	0.656	
72	Unk	PCB-57	100.00	1.06e+08	0.80	y	31:44	-	1.09	
73	Unk	PCB-67	100.00	1.05e+08	0.88	y	32:02	-	1.08	
74	Unk	PCB-58	100.00	1.07e+08	0.73	y	32:08	-	1.10	
75	Unk	PCB-63	100.00	1.07e+08	0.79	y	32:17	-	1.10	
76	Unk	PCB-74	100.00	1.04e+08	0.79	y	32:34	-	1.08	
77	Unk	PCB-61	200.00	2.00e+08	0.80	y	32:45	-	1.03	Co-elute PCB 70
78	Unk	PCB-70	200.00	2.00e+08	0.80	y	32:45	-	1.03	Co-elute PCB 61
79	Unk	PCB-76	200.00	2.19e+08	0.81	y	32:58	-	1.13	Co-elute PCB 66
80	Unk	PCB-66	200.00	2.19e+08	0.81	y	32:58	-	1.13	Co-elute PCB 76
81	Unk	PCB-80	100.00	1.26e+08	0.80	y	33:09	-	1.30	
82	Unk	PCB-55	100.00	1.10e+08	0.80	y	33:28	-	1.13	
83	IS/RT	13C-PCB-54	100.00	9.70e+07	0.82	y	25:35	-	1.20	
84	Unk	PCB-104	100.00	8.27e+07	1.58	y	30:03	-	1.11	
85	Unk	PCB-96	100.00	7.81e+07	1.57	y	31:14	-	1.05	
86	Unk	PCB-103	100.00	6.29e+07	1.59	y	31:44	-	0.841	
87	Unk	PCB-100	100.00	6.23e+07	1.57	y	32:05	-	0.834	
88	Unk	PCB-94	100.00	5.13e+07	1.60	y	32:31	-	0.686	
89	Unk	PCB-98	200.00	1.07e+08	1.60	y	32:58	-	0.715	Co-elute PCB 102
90	Unk	PCB-102	200.00	1.07e+08	1.60	y	32:58	-	0.715	Co-elute PCB 98
91	Unk	PCB-95	100.00	5.33e+07	1.51	y	33:01	-	0.713	
92	Unk	PCB-93	100.00	5.19e+07	1.65	y	33:06	-	0.694	
93	Unk	PCB-88	200.00	1.14e+08	1.58	y	33:25	-	0.766	Co-elute PCB 91
94	Unk	PCB-91	200.00	1.14e+08	1.58	y	33:25	-	0.766	Co-elute PCB 88
95	Unk	PCB-121	100.00	6.92e+07	1.62	y	33:29	-	0.926	
96	IS	13C-PCB-104	100.00	7.48e+07	1.58	y	30:01	-	0.923	
97	C/Up	13C-PCB-28	100.00	1.48e+08	1.06	y	26:40	-	1.83	
98	RS	13C-PCB-52	100.00	8.10e+07	0.82	y	28:56	8.10e+05	-	
99	Unk	PCB-56	200.00	2.19e+08	0.78	y	33:57	-	1.26	Co-elute PCB 60
100	Unk	PCB-60	200.00	2.19e+08	0.78	y	33:57	-	1.26	Co-elute PCB 56

101	Unk	PCB-79	100.00	1.03e+08	0.79 y	34:57	-	1.19	
102	Unk	PCB-78	100.00	9.55e+07	0.79 y	35:37	-	1.10	
103	Unk	PCB-81	100.00	1.06e+08	0.78 y	36:07	-	1.24	
104	IS	13C-PCB-81	100.00	8.54e+07	0.79 y	36:06	-	1.38	
105	Unk	PCB-77	100.00	9.28e+07	0.79 y	36:41	-	1.05	
106	IS/RT	13C-PCB-77	100.00	8.85e+07	0.80 y	36:40	-	1.43	
107	Unk	PCB-155	100.00	7.87e+07	1.27 y	34:12	-	1.03	
108	Unk	PCB-150	100.00	7.55e+07	1.26 y	35:24	-	0.988	
109	Unk	PCB-152	100.00	6.84e+07	1.30 y	35:51	-	0.896	
110	Unk	PCB-145	100.00	6.55e+07	1.27 y	36:16	-	0.857	
111	Unk	PCB-136	100.00	6.18e+07	1.27 y	36:35	-	0.809	
112	Unk	PCB-148	100.00	4.61e+07	1.29 y	36:40	-	0.603	
113	Unk	PCB-154	100.00	5.20e+07	1.26 y	37:08	-	0.680	
114	IS	13C-PCB-155	100.00	7.64e+07	1.28 y	34:11	-	1.23	
115	C/Up	13C-PCB-111	100.00	6.73e+07	1.61 y	36:15	-	1.08	
116	RS	13C-PCB-101	100.00	6.21e+07	1.64 y	34:36	6.21e+05	-	
117	Unk	PCB-84	200.00	1.26e+08	1.59 y	34:17	-	0.874	Co-elute PCB 92
118	Unk	PCB-92	200.00	1.26e+08	1.59 y	34:17	-	0.874	Co-elute PCB 84
119	Unk	PCB-89	100.00	6.30e+07	1.60 y	34:27	-	0.874	
120	Unk	PCB-90	200.00	1.41e+08	1.59 y	34:37	-	0.978	Co-elute PCB 101
121	Unk	PCB-101	200.00	1.41e+08	1.59 y	34:37	-	0.978	Co-elute PCB 90
122	Unk	PCB-113	100.00	7.87e+07	1.58 y	34:51	-	1.09	
123	Unk	PCB-99	100.00	8.05e+07	1.59 y	34:56	-	1.12	
124	Unk	PCB-119	100.00	8.68e+07	1.60 y	35:23	-	1.20	
125	Unk	PCB-83	200.00	1.27e+08	1.52 y	35:32	-	0.881	Co-elute PCB 112
126	Unk	PCB-112	200.00	1.27e+08	1.52 y	35:32	-	0.881	Co-elute PCB 83
127	Unk	PCB-109	100.00	7.66e+07	1.57 y	35:42	-	1.06	
128	Unk	PCB-97	100.00	5.18e+07	1.57 y	35:52	-	0.718	
129	Unk	PCB-86	100.00	5.12e+07	1.61 y	36:01	-	0.711	
130	Unk	PCB-125	300.00	2.06e+08	1.57 y	36:08	-	0.953	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	2.06e+08	1.57 y	36:08	-	0.953	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	2.06e+08	1.57 y	36:08	-	0.953	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	1.66e+08	1.59 y	36:17	-	1.15	Co-elute PCB 115
134	Unk	PCB-115	200.00	1.66e+08	1.59 y	36:17	-	1.15	Co-elute PCB 111
135	Unk	PCB-85	200.00	1.25e+08	1.59 y	36:25	-	0.868	Co-elute PCB 116
136	Unk	PCB-116	200.00	1.25e+08	1.59 y	36:25	-	0.868	Co-elute PCB 85
137	Unk	PCB-120	100.00	8.11e+07	1.58 y	36:37	-	1.13	
138	Unk	PCB-110	100.00	7.46e+07	1.59 y	36:46	-	1.04	
139	Unk	PCB-82	100.00	4.33e+07	1.59 y	37:22	-	0.600	
140	Unk	PCB-124	100.00	7.48e+07	1.50 y	38:00	-	1.04	
141	Unk	PCB-108	200.00	1.59e+08	1.56 y	38:09	-	1.10	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.59e+08	1.56 y	38:09	-	1.10	Co-elute PCB 108
143	Unk	PCB-123	100.00	7.03e+07	1.55 y	38:19	-	1.05	
144	IS	13C-PCB-123	100.00	6.66e+07	1.57 y	38:17	-	1.31	
145	Unk	PCB-118	200.00	1.60e+08	1.55 y	38:30	-	1.04	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.60e+08	1.55 y	38:30	-	1.04	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	7.66e+07	1.60 y	38:28	-	1.51	
148	Unk	PCB-114	100.00	8.02e+07	1.53 y	39:06	-	1.11	
149	IS	13C-PCB-114	100.00	7.21e+07	1.62 y	39:05	-	1.42	
150	Unk	PCB-122	100.00	7.73e+07	1.57 y	39:13	-	1.07	
151	Unk	PCB-105	100.00	8.29e+07	1.53 y	39:56	-	1.13	
152	IS	13C-PCB-105	100.00	7.30e+07	1.58 y	39:54	-	1.44	
153	Unk	PCB-127	100.00	7.57e+07	1.54 y	40:14	-	1.05	
154	Unk	PCB-126	100.00	7.46e+07	1.51 y	42:02	-	1.08	
155	IS	13C-PCB-126	100.00	6.91e+07	1.58 y	42:01	-	1.36	

156	Unk	PCB-151	100.00	4.80e+07	1.28 y	37:46	-	0.761	
157	Unk	PCB-135	100.00	4.95e+07	1.28 y	37:57	-	0.784	
158	Unk	PCB-144	100.00	5.08e+07	1.29 y	38:04	-	0.805	
159	Unk	PCB-147	100.00	5.79e+07	1.28 y	38:10	-	0.917	
160	Unk	PCB-139	200.00	1.12e+08	1.28 y	38:27	-	0.890	Co-elute PCB 149
161	Unk	PCB-149	200.00	1.12e+08	1.28 y	38:27	-	0.890	Co-elute PCB 139
162	Unk	PCB-140	100.00	5.47e+07	1.27 y	38:37	-	0.866	
163	Unk	PCB-143	200.00	9.45e+07	1.26 y	39:01	-	0.748	Co-elute PCB 134
164	Unk	PCB-134	200.00	9.45e+07	1.26 y	39:01	-	0.748	Co-elute PCB 143
165	Unk	PCB-131	200.00	9.09e+07	1.28 y	39:18	-	0.720	Co-elute PCB 133
166	Unk	PCB-133	200.00	9.09e+07	1.28 y	39:18	-	0.720	Co-elute PCB 131
167	Unk	PCB-142	100.00	4.64e+07	1.28 y	39:28	-	0.736	
168	Unk	PCB-165	200.00	1.27e+08	1.28 y	39:39	-	1.01	Co-elute PCB 146
169	Unk	PCB-146	200.00	1.27e+08	1.28 y	39:39	-	1.01	Co-elute PCB 165
170	Unk	PCB-161	200.00	1.19e+08	1.27 y	39:52	-	0.940	Co-elute PCB 132
171	Unk	PCB-132	200.00	1.19e+08	1.27 y	39:52	-	0.940	Co-elute PCB 161
172	Unk	PCB-153	100.00	6.06e+07	1.28 y	40:02	-	0.959	
173	Unk	PCB-168	100.00	6.91e+07	1.29 y	40:14	-	1.09	
174	Unk	PCB-141	100.00	5.01e+07	1.28 y	40:45	-	0.793	
175	Unk	PCB-137	100.00	5.27e+07	1.25 y	41:06	-	0.834	
176	Unk	PCB-130	100.00	4.37e+07	1.27 y	41:11	-	0.692	
177	Unk	PCB-138	300.00	1.94e+08	1.28 y	41:34	-	1.03	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	1.94e+08	1.28 y	41:34	-	1.03	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	1.94e+08	1.28 y	41:34	-	1.03	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	1.42e+08	1.27 y	41:48	-	1.13	Co-elute PCB 160
181	Unk	PCB-160	200.00	1.42e+08	1.27 y	41:48	-	1.13	Co-elute PCB 158
182	Unk	PCB-129	100.00	4.40e+07	1.26 y	42:01	-	0.697	
183	Unk	PCB-166	100.00	6.88e+07	1.26 y	42:27	-	1.09	
184	Unk	PCB-159	100.00	7.37e+07	1.26 y	42:45	-	1.17	
185	Unk	PCB-128	200.00	1.18e+08	1.26 y	43:02	-	0.935	Co-elute PCB 162
186	Unk	PCB-162	200.00	1.18e+08	1.26 y	43:02	-	0.935	Co-elute PCB 128
187	Unk	PCB-167	100.00	6.87e+07	1.27 y	43:23	-	1.11	
188	IS	13C-PCB-167	100.00	6.17e+07	1.28 y	43:23	-	1.22	
189	Unk	PCB-156	100.00	7.46e+07	1.27 y	44:37	-	1.20	
190	IS	13C-PCB-156	100.00	6.24e+07	1.30 y	44:35	-	1.23	
191	Unk	PCB-157	100.00	7.02e+07	1.27 y	44:52	-	1.11	
192	IS	13C-PCB-157	100.00	6.34e+07	1.30 y	44:52	-	1.25	
193	Unk	PCB-169	100.00	6.85e+07	1.25 y	46:44	-	1.05	
194	IS	13C-PCB-169	100.00	6.50e+07	1.28 y	46:44	-	1.28	
195	Unk	PCB-188	100.00	5.71e+07	1.09 y	39:41	-	1.07	
196	IS	13C-PCB-188	100.00	5.32e+07	1.05 y	39:39	-	1.05	

197	Unk	PCB-184	100.00	5.65e+07	1.09 y	40:07	-	1.06	
198	Unk	PCB-179	100.00	5.51e+07	1.07 y	40:52	-	1.03	
199	Unk	PCB-176	100.00	5.50e+07	1.08 y	41:18	-	1.03	
200	Unk	PCB-186	100.00	5.47e+07	1.09 y	41:53	-	1.02	
201	Unk	PCB-178	100.00	3.53e+07	0.97 y	42:20	-	0.659	
202	Unk	PCB-175	100.00	4.16e+07	1.07 y	42:39	-	0.776	
203	Unk	PCB-187	200.00	8.86e+07	1.09 y	42:48	-	0.827	Co-elute PCB 182
204	Unk	PCB-182	200.00	8.86e+07	1.09 y	42:48	-	0.827	Co-elute PCB 187
205	Unk	PCB-183	100.00	4.33e+07	1.07 y	43:07	-	0.809	
206	Unk	PCB-185	100.00	3.88e+07	1.08 y	43:44	-	0.725	
207	Unk	PCB-174	100.00	3.84e+07	1.07 y	44:04	-	0.718	
208	Unk	PCB-181	100.00	4.36e+07	1.07 y	44:11	-	0.813	
209	Unk	PCB-177	100.00	3.48e+07	1.07 y	44:21	-	0.650	
210	Unk	PCB-171	100.00	4.07e+07	1.07 y	44:37	-	0.759	
211	Unk	PCB-173	100.00	3.70e+07	1.05 y	45:02	-	0.690	
212	Unk	PCB-172	100.00	3.92e+07	1.07 y	45:25	-	0.732	
213	Unk	PCB-192	100.00	5.17e+07	1.06 y	45:35	-	0.965	
214	Unk	PCB-180	100.00	3.91e+07	1.05 y	45:46	-	0.730	
215	Unk	PCB-193	100.00	5.53e+07	1.08 y	45:56	-	1.03	
216	Unk	PCB-191	100.00	5.47e+07	1.08 y	46:09	-	1.02	
217	Unk	PCB-170	100.00	3.92e+07	1.08 y	47:04	-	0.732	
218	Unk	PCB-190	100.00	5.62e+07	1.07 y	47:13	-	1.05	
219	Unk	PCB-189	100.00	5.70e+07	1.07 y	48:24	-	1.06	
220	IS	13C-PCB-189	100.00	5.39e+07	1.06 y	48:24	-	1.06	
221	Unk	PCB-202	150.00	6.80e+07	0.92 y	44:47	-	1.05	
222	Unk	PCB-201	150.00	6.53e+07	0.95 y	45:15	-	1.01	
223	Unk	PCB-204	150.00	7.33e+07	0.92 y	45:23	-	1.13	
224	Unk	PCB-197	150.00	7.08e+07	0.94 y	45:40	-	1.10	
225	Unk	PCB-200	150.00	6.74e+07	0.94 y	46:24	-	1.04	
226	Unk	PCB-198	150.00	4.89e+07	0.93 y	47:35	-	0.756	
227	Unk	PCB-199	150.00	5.56e+07	0.95 y	47:40	-	0.860	
228	Unk	PCB-203	300.00	1.21e+08	0.95 y	47:55	-	0.933	Co-elute PCB 196
229	Unk	PCB-196	300.00	1.21e+08	0.95 y	47:55	-	0.933	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	4.31e+07	0.91 y	44:47	-	0.850	
231	C/Up	13C-PCB-178	100.00	3.37e+07	1.08 y	42:17	-	0.664	
232	RS	13C-PCB-138	100.00	5.07e+07	1.28 y	41:31	5.07e+05	-	
233	Unk	PCB-195	150.00	7.80e+07	0.89 y	49:01	-	0.780	
234	Unk	PCB-194	150.00	8.53e+07	0.90 y	49:50	-	0.853	
235	Unk	PCB-205	150.00	1.10e+08	0.90 y	50:04	-	1.10	
236	IS	13C-PCB-205	100.00	6.67e+07	0.90 y	50:04	-	1.30	
237	Unk	PCB-208	150.00	9.76e+07	1.37 y	49:08	-	1.06	
238	IS	13C-PCB-208	100.00	6.15e+07	0.82 y	49:07	-	1.20	
239	Unk	PCB-207	150.00	9.68e+07	1.34 y	49:25	-	1.18	
240	Unk	PCB-206	150.00	7.74e+07	1.33 y	51:16	-	1.07	
241	IS	13C-PCB-206	100.00	4.81e+07	0.79 y	51:16	-	0.938	
242	Unk	PCB-209	150.00	1.04e+08	1.20 y	52:28	-	1.12	
243	IS	13C-PCB-209	100.00	6.23e+07	1.20 y	52:26	-	1.22	
244	RS	13C-PCB-194	100.00	5.13e+07	0.90 y	49:48	5.13e+05	-	

Analyst: [signature] Date: 8/2/15

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/2/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 02AUG19Z Sam:1 Analysis Date: 2-AUG-19 07:02:18

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.17	2.66-3.60	y	51.6	37.5 - 62.5
PCB-3	M/M+2	3.11	2.66-3.60	y	52.1	37.5 - 62.5
PCB-4	M/M+2	1.55	1.33-1.79	y	42.3	37.5 - 62.5
PCB-15	M/M+2	1.55	1.33-1.79	y	45.3	37.5 - 62.5
PCB-19	M/M+2	1.05	0.88-1.20	y	49.3	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	47.1	37.5 - 62.5
PCB-54	M/M+2	0.82	0.65-0.89	y	50.0	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	0.80	0.65-0.89	y	45.4	37.5 - 62.5
PCB-104	M+2/M+4	1.62	1.32-1.78	y	50.9	37.5 - 62.5
PCB-105	M+2/M+4	1.60	1.32-1.78	y	47.9	37.5 - 62.5
PCB-114	M+2/M+4	1.57	1.32-1.78	y	48.3	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	50.1	37.5 - 62.5
PCB-123	M+2/M+4	1.57	1.32-1.78	y	50.7	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	48.0	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	48.0	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	46.3	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	47.6	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	48.5	37.5 - 62.5
PCB-169	M+2/M+4	1.30	1.05-1.43	y	52.1	37.5 - 62.5
PCB-188	M+2/M+4	1.07	0.89-1.21	y	48.8	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	0.95	0.76-1.02	y	49.4	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	51.0	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	49.1	37.5 - 62.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	48.1	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	50.6	37.5 - 62.5

Analyst: _____ Date: 8/2/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/2/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 02AUG19Z Sam:1 Analysis Date: 2-AUG-19 07:02:18

	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	3.27	2.66-3.60	y	96.2	50.0 - 145
13C-PCB-3	M/M+2	3.28	2.66-3.60	y	97.6	50.0 - 145
13C-PCB-4	M/M+2	1.61	1.33-1.79	y	97.0	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	103	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	96.0	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	114	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	96.3	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	109	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	109	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	99.9	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	109	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	118	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	122	50.0 - 145
13C-PCB-123	M+2/M+4	1.55	1.32-1.78	y	125	50.0 - 145
13C-PCB-126	M+2/M+4	1.58	1.32-1.78	y	102	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	105	50.0 - 145
13C-PCB-156	M+2/M+4	1.30	1.05-1.43	y	112	50.0 - 145
13C-PCB-157	M+2/M+4	1.28	1.05-1.43	y	112	50.0 - 145
13C-PCB-167	M+2/M+4	1.29	1.05-1.43	y	115	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	104	50.0 - 145
13C-PCB-188	M+2/M+4	1.05	0.89-1.21	y	113	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	108	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	115	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	106	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	116	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	118	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	109	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	101	65.0 - 135
13C-PCB-111	M+2/M+4	1.64	1.32-1.78	y	117	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	107	75.0 - 125

Analyst: [signature] Date: 8/2/19

FAL ID: ST08021921 Filename: 02AUG19Z Sam:1 Acquired: 2-AUG-19 07:02:18 ICal: DAILY209FAL4-8-2-19 1 of 2
Client ID: 1668 CS3 R181204D ConCal: ST08021921 EndCal: ST08021922
Results: 12511-1 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	8.03e+07	3.17 y	14:33	1.16	51.6		2.50	-	-	*	
13C-PCB-1	1.34e+08	3.27 y	14:32	0.90	96.2		2.50				96.2
PCB-3	8.27e+07	3.11 y	16:59	1.14	52.1		2.50	-	-	*	
13C-PCB-3	1.39e+08	3.28 y	16:58	0.92	97.6		2.50				97.6
PCB-4	5.13e+07	1.55 y	18:13	1.24	42.3		2.50	-	-	*	
13C-PCB-4	9.73e+07	1.61 y	18:12	0.65	97.0		2.50				97.0
PCB-15	8.09e+07	1.55 y	23:44	1.14	45.3		2.50	-	-	*	
13C-PCB-15	1.56e+08	1.60 y	23:43	0.98	103		2.50				103
PCB-19	4.11e+07	1.05 y	22:06	1.22	49.3		2.50	-	-	*	
13C-PCB-19	6.81e+07	1.07 y	22:04	0.46	96.0		2.50				96.0
13C-PCB-9	1.54e+08	1.58 y	19:52	-	90.8		2.50				
PCB-37	6.60e+07	1.05 y	30:22	1.13	47.1		2.50	-	-	*	
13C-PCB-37	1.24e+08	1.06 y	30:21	1.48	114		2.50				114
PCB-54	5.36e+07	0.82 y	25:38	1.26	50.0		2.50	-	-	*	
13C-PCB-54	8.48e+07	0.82 y	25:37	1.20	96.3		2.50				96.3
PCB-104	3.82e+07	1.62 y	30:03	1.11	50.9		2.50	-	-	*	
13C-PCB-104	6.78e+07	1.59 y	30:02	0.92	99.9		2.50				99.9
13C-PCB-28	1.36e+08	1.07 y	26:41	1.83	101		2.50				101
13C-PCB-52	7.36e+07	0.82 y	28:56	-	90.9		2.50				
PCB-81	5.12e+07	0.80 y	36:08	1.24	45.4		2.50	-	-	*	
13C-PCB-81	9.13e+07	0.80 y	36:07	1.38	109		2.50				109
PCB-77	5.05e+07	0.79 y	36:43	1.05	51.0		2.50	-	-	*	
13C-PCB-77	9.45e+07	0.80 y	36:41	1.43	109		2.50				109
PCB-155	3.89e+07	1.27 y	34:12	1.03	48.0		2.50	-	-	*	
13C-PCB-155	7.86e+07	1.28 y	34:11	1.23	105		2.50				105
13C-PCB-111	7.68e+07	1.64 y	36:16	1.08	117		2.50				117
13C-PCB-101	6.07e+07	1.63 y	34:37	-	97.7		2.50				
PCB-123	3.99e+07	1.57 y	38:20	1.05	50.7		2.50	-	-	*	
13C-PCB-123	7.46e+07	1.55 y	38:19	1.31	125		2.50				125
PCB-118	4.37e+07	1.56 y	38:30	1.04	50.1		2.50	-	-	*	
13C-PCB-118	8.36e+07	1.61 y	38:29	1.51	122		2.50				122
PCB-114	4.08e+07	1.57 y	39:08	1.11	48.3		2.50	-	-	*	
13C-PCB-114	7.60e+07	1.61 y	39:06	1.42	118		2.50				118
PCB-105	3.85e+07	1.60 y	39:56	1.13	47.9		2.50	-	-	*	
13C-PCB-105	7.09e+07	1.61 y	39:56	1.44	109		2.50				109
PCB-126	3.27e+07	1.57 y	42:02	1.08	48.0		2.50	-	-	*	
13C-PCB-126	6.32e+07	1.58 y	42:02	1.36	102		2.50				102
PCB-167	3.41e+07	1.26 y	43:25	1.11	48.5		2.50	-	-	*	
13C-PCB-167	6.32e+07	1.29 y	43:23	1.22	115		2.50				115
PCB-156	3.45e+07	1.25 y	44:39	1.20	46.3		2.50	-	-	*	
13C-PCB-156	6.23e+07	1.30 y	44:37	1.23	112		2.50				112
PCB-157	3.34e+07	1.24 y	44:54	1.11	47.6		2.50	-	-	*	
13C-PCB-157	6.35e+07	1.28 y	44:54	1.25	112		2.50				112
PCB-169	3.31e+07	1.30 y	46:46	1.05	52.1		2.50	-	-	*	
13C-PCB-169	6.02e+07	1.29 y	46:46	1.28	104		2.50				104
PCB-188	2.81e+07	1.07 y	39:43	1.07	48.8		2.50	-	-	*	
13C-PCB-188	5.38e+07	1.05 y	39:41	1.05	113		2.50				113
PCB-189	2.79e+07	1.07 y	48:26	1.06	50.5		2.50	-	-	*	
13C-PCB-189	5.23e+07	1.07 y	48:24	1.06	108		2.50				108
PCB-202	2.30e+07	0.95 y	44:49	1.05	49.4		2.50	-	-	*	
13C-PCB-202	4.43e+07	0.92 y	44:49	0.85	115		2.50				115
13C-PCB-178	3.22e+07	1.05 y	42:19	0.66	107		2.50				107
13C-PCB-138	4.53e+07	1.30 y	41:33	-	89.3		2.50				

FAL ID: ST080219Z1 Filename: 02AUG19Z Sam:1 Acquired: 2-AUG-19 07:02:18 ICal: DAILY209FAL4-8-2-19
Client ID: 1668 CS3 R181204D ConCal: ST080219Z1 EndCal: ST080219Z2
Results: 12511-1 GC Column: DB1MS Amount: 1.000

PCB-205	3.42e+07	0.91	y	50:05	1.10	51.0	2.50	-	-	*	
13C-PCB-205	6.09e+07	0.89	y	50:04	1.30	106	2.50				106
PCB-208	3.17e+07	1.34	y	49:09	1.06	48.1	2.50	-	-	*	
13C-PCB-208	6.22e+07	0.81	y	49:09	1.20	118	2.50				118
PCB-206	2.51e+07	1.36	y	51:17	1.07	49.1	2.50	-	-	*	
13C-PCB-206	4.76e+07	0.80	y	51:16	0.94	116	2.50				116
PCB-209	3.29e+07	1.20	y	52:28	1.12	50.6	2.50	-	-	*	
13C-PCB-209	5.83e+07	1.20	y	52:28	1.22	109	2.50				109
13C-PCB-194	4.39e+07	0.93	y	49:48	-	85.7	2.50				

Analyst: _____ Date: 8/2/19

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/2/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 02AUG19Z Sam:16 Analysis Date: 2-AUG-19 21:38:52

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.21	2.66-3.60	y	51.5	37.5 - 62.5
PCB-3	M/M+2	3.11	2.66-3.60	y	52.0	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	42.9	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	46.0	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	47.3	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	48.7	37.5 - 62.5
PCB-54	M/M+2	0.81	0.65-0.89	y	49.2	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	52.2	37.5 - 62.5
PCB-81	M/M+2	0.79	0.65-0.89	y	45.8	37.5 - 62.5
PCB-104	M+2/M+4	1.57	1.32-1.78	y	50.5	37.5 - 62.5
PCB-105	M+2/M+4	1.57	1.32-1.78	y	47.0	37.5 - 62.5
PCB-114	M+2/M+4	1.56	1.32-1.78	y	49.0	37.5 - 62.5
PCB-118	M+2/M+4	1.54	1.32-1.78	y	52.3	37.5 - 62.5
PCB-123	M+2/M+4	1.52	1.32-1.78	y	50.8	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	51.2	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	50.0	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	47.9	37.5 - 62.5
PCB-157	M+2/M+4	1.29	1.05-1.43	y	49.3	37.5 - 62.5
PCB-167	M+2/M+4	1.28	1.05-1.43	y	51.1	37.5 - 62.5
PCB-169	M+2/M+4	1.28	1.05-1.43	y	54.0	37.5 - 62.5
PCB-188	M+2/M+4	1.03	0.89-1.21	y	48.0	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	49.2	37.5 - 62.5
PCB-202	M+2/M+4	0.93	0.76-1.02	y	48.8	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	51.4	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	47.9	37.5 - 62.5
PCB-208	M+4/M+6	1.37	1.13-1.53	y	49.1	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	49.9	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: 8/2/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 02AUG19Z Sam:16 Analysis Date: 2-AUG-19 21:38:52

	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	3.17	2.66-3.60	y	113	50.0 - 145
13C-PCB-3	M/M+2	3.22	2.66-3.60	y	102	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	116	50.0 - 145
13C-PCB-15	M/M+2	1.61	1.33-1.79	y	85.5	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	116	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	94.9	50.0 - 145
13C-PCB-54	M/M+2	0.83	0.65-0.89	y	132	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	106	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	107	50.0 - 145
13C-PCB-104	M+2/M+4	1.61	1.32-1.78	y	131	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	98.3	50.0 - 145
13C-PCB-114	M+2/M+4	1.60	1.32-1.78	y	98.7	50.0 - 145
13C-PCB-118	M+2/M+4	1.59	1.32-1.78	y	99.3	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	106	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	94.9	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	126	50.0 - 145
13C-PCB-156	M+2/M+4	1.31	1.05-1.43	y	97.0	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	102	50.0 - 145
13C-PCB-167	M+2/M+4	1.30	1.05-1.43	y	99.1	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	97.1	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	121	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	114	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	126	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	103	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	106	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	109	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	99.0	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	105	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	119	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	124	75.0 - 125

Analyst: _____ Date: 8/5/19

Client ID: 1668 CS3 R181204D ConCal: ST08021921 EndCal: ST08021922
Results: 12511-1 GC Column: DB1MS Amount: 1.000

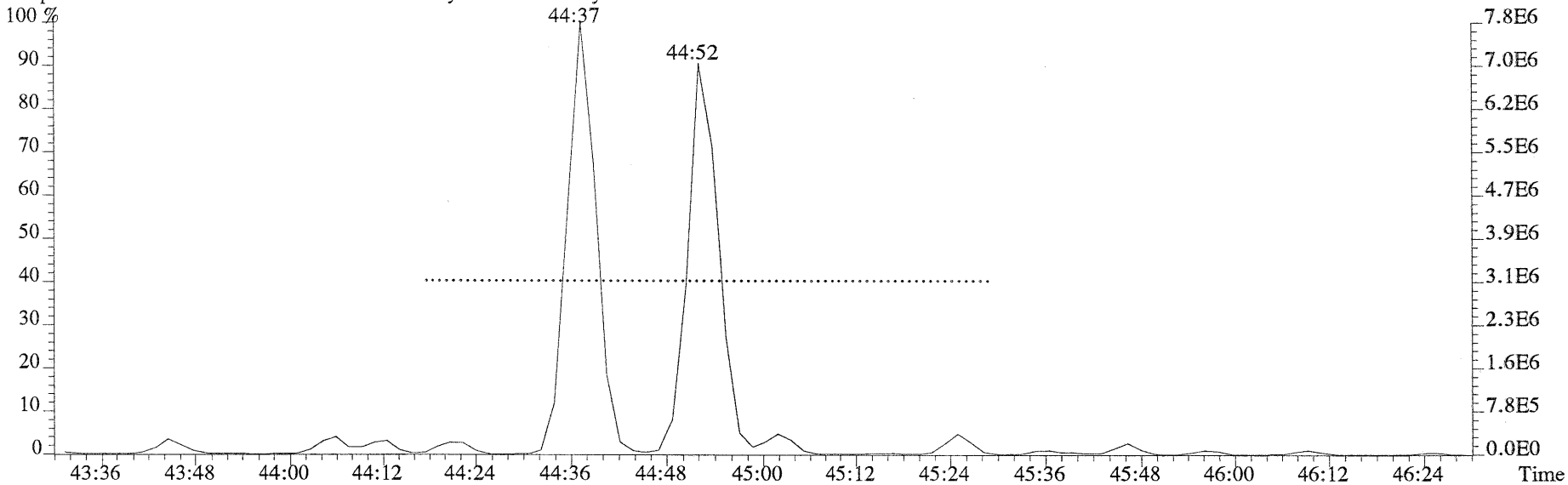
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	8.42e+07	3.21 y	14:31	1.16	51.5		2.50	-	-	*	
13C-PCB-1	1.41e+08	3.17 y	14:30	0.90	113		2.50				113
PCB-3	7.72e+07	3.11 y	16:56	1.14	52.0		2.50	-	-	*	
13C-PCB-3	1.30e+08	3.22 y	16:56	0.92	102		2.50				102
PCB-4	5.53e+07	1.57 y	18:10	1.24	42.9		2.50	-	-	*	
13C-PCB-4	1.04e+08	1.60 y	18:10	0.65	116		2.50				116
PCB-15	6.08e+07	1.56 y	23:42	1.14	46.0		2.50	-	-	*	
13C-PCB-15	1.16e+08	1.61 y	23:41	0.98	85.5		2.50				85.5
PCB-19	4.25e+07	1.06 y	22:03	1.22	47.3		2.50	-	-	*	
13C-PCB-19	7.34e+07	1.07 y	22:02	0.46	116		2.50				116
13C-PCB-9	1.38e+08	1.62 y	19:50	-	81.0		2.50				
PCB-37	4.28e+07	1.05 y	30:21	1.13	48.7		2.50	-	-	*	
13C-PCB-37	7.77e+07	1.09 y	30:20	1.48	94.9		2.50				94.9
PCB-54	5.45e+07	0.81 y	25:35	1.26	49.2		2.50	-	-	*	
13C-PCB-54	8.77e+07	0.83 y	25:34	1.20	132		2.50				132
PCB-104	3.75e+07	1.57 y	30:01	1.11	50.5		2.50	-	-	*	
13C-PCB-104	6.69e+07	1.61 y	29:59	0.92	131		2.50				131
13C-PCB-28	1.06e+08	1.04 y	26:38	1.83	105		2.50				105
13C-PCB-52	5.53e+07	0.81 y	28:54	-	68.3		2.50				
PCB-81	3.30e+07	0.79 y	36:06	1.24	45.8		2.50	-	-	*	
13C-PCB-81	5.83e+07	0.81 y	36:04	1.38	107		2.50				107
PCB-77	3.28e+07	0.80 y	36:40	1.05	52.2		2.50	-	-	*	
13C-PCB-77	6.00e+07	0.80 y	36:39	1.43	106		2.50				106
PCB-155	3.16e+07	1.26 y	34:09	1.03	50.0		2.50	-	-	*	
13C-PCB-155	6.13e+07	1.28 y	34:08	1.23	126		2.50				126
13C-PCB-111	5.10e+07	1.61 y	36:13	1.08	119		2.50				119
13C-PCB-101	3.96e+07	1.65 y	34:35	-	63.7		2.50				
PCB-123	2.85e+07	1.52 y	38:17	1.05	50.8		2.50	-	-	*	
13C-PCB-123	5.33e+07	1.59 y	38:15	1.31	106		2.50				106
PCB-118	3.13e+07	1.54 y	38:27	1.04	52.3		2.50	-	-	*	
13C-PCB-118	5.74e+07	1.59 y	38:27	1.51	99.3		2.50				99.3
PCB-114	2.93e+07	1.56 y	39:05	1.11	49.0		2.50	-	-	*	
13C-PCB-114	5.37e+07	1.60 y	39:03	1.42	98.7		2.50				98.7
PCB-105	2.89e+07	1.57 y	39:54	1.13	47.0		2.50	-	-	*	
13C-PCB-105	5.42e+07	1.60 y	39:52	1.44	98.3		2.50				98.3
PCB-126	2.73e+07	1.57 y	42:01	1.08	51.2		2.50	-	-	*	
13C-PCB-126	4.95e+07	1.60 y	41:59	1.36	94.9		2.50				94.9
PCB-167	2.62e+07	1.28 y	43:23	1.11	51.1		2.50	-	-	*	
13C-PCB-167	4.62e+07	1.30 y	43:21	1.22	99.1		2.50				99.1
PCB-156	2.62e+07	1.25 y	44:35	1.20	47.9		2.50	-	-	*	
13C-PCB-156	4.57e+07	1.31 y	44:35	1.23	97.0		2.50				97.0
PCB-157	2.68e+07	1.29 y	44:52	1.11	49.3		2.50	-	-	*	
13C-PCB-157	4.90e+07	1.30 y	44:50	1.25	102		2.50				102
PCB-169	2.71e+07	1.28 y	46:44	1.05	54.0		2.50	-	-	*	
13C-PCB-169	4.77e+07	1.29 y	46:42	1.28	97.1		2.50				97.1
PCB-188	2.51e+07	1.03 y	39:39	1.07	48.0		2.50	-	-	*	
13C-PCB-188	4.87e+07	1.06 y	39:37	1.05	121		2.50				121
PCB-189	2.42e+07	1.06 y	48:24	1.06	49.2		2.50	-	-	*	
13C-PCB-189	4.66e+07	1.06 y	48:23	1.06	114		2.50				114
PCB-202	2.11e+07	0.93 y	44:45	1.05	48.8		2.50	-	-	*	
13C-PCB-202	4.11e+07	0.91 y	44:45	0.85	126		2.50				126
13C-PCB-178	3.17e+07	1.05 y	42:16	0.66	124		2.50				124
13C-PCB-138	3.83e+07	1.30 y	41:29	-	75.5		2.50				

FAL ID: ST080219Z2 Filename: 02AUG19Z Sam:16 Acquired: 2-AUG-19 21:38:52 ICal: DAILY209FAL4-8-2-19 2 of 2
Client ID: 1668 CS3 R181204D ConCal: ST080219Z1 EndCal: ST080219Z2
Results: 12511-1 GC Column: DB1MS Amount: 1.000

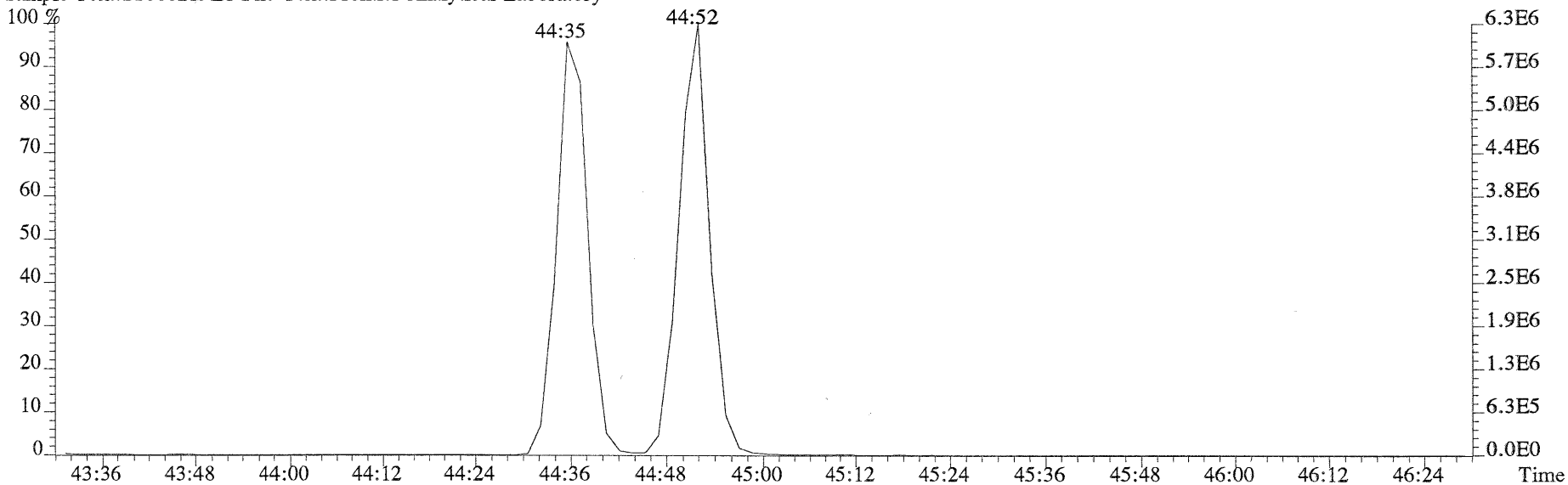
PCB-205	3.24e+07	0.89	y	50:04	1.10	51.4	2.50	-	-	*	
13C-PCB-205	5.72e+07	0.90	y	50:02	1.30	103	2.50				103
PCB-208	2.89e+07	1.37	y	49:07	1.06	49.1	2.50	-	-	*	
13C-PCB-208	5.57e+07	0.80	y	49:06	1.20	109	2.50				109
PCB-206	2.18e+07	1.35	y	51:14	1.07	47.9	2.50	-	-	*	
13C-PCB-206	4.24e+07	0.80	y	51:14	0.94	106	2.50				106
PCB-209	2.85e+07	1.20	y	52:26	1.12	49.9	2.50	-	-	*	
13C-PCB-209	5.12e+07	1.20	y	52:25	1.22	99.0	2.50				99.0
13C-PCB-194	4.26e+07	0.92	y	49:47	-	83.1	2.50				

Analyst: [illegible] Date: 8/5/19

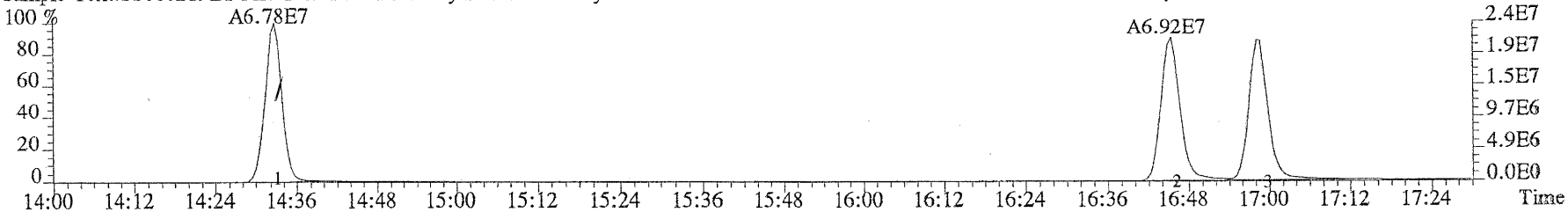
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



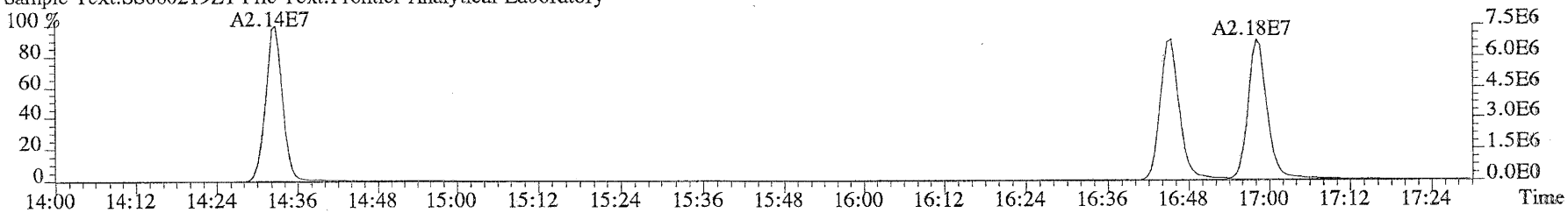
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



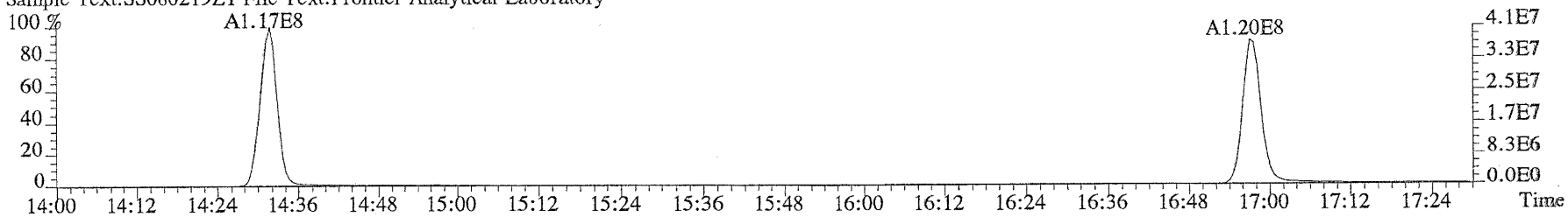
File:02AUG19Z #1-784 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



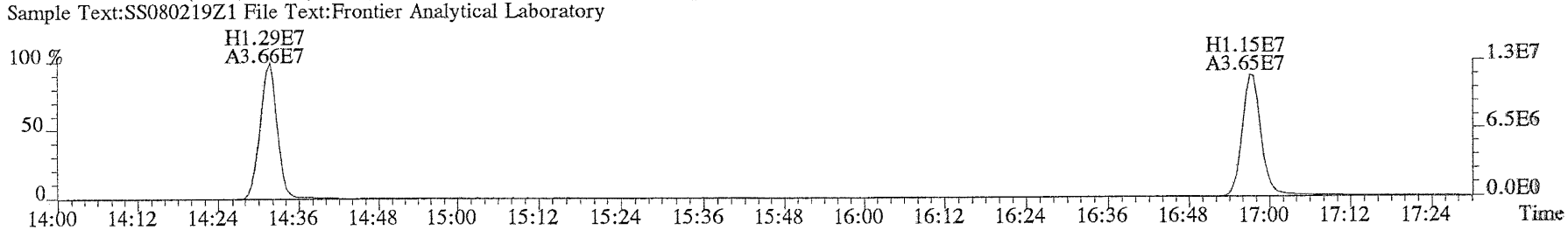
File:02AUG19Z #1-784 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



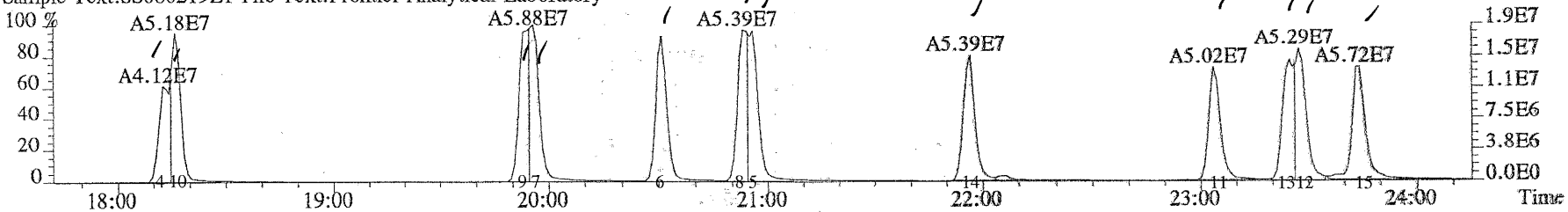
File:02AUG19Z #1-784 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



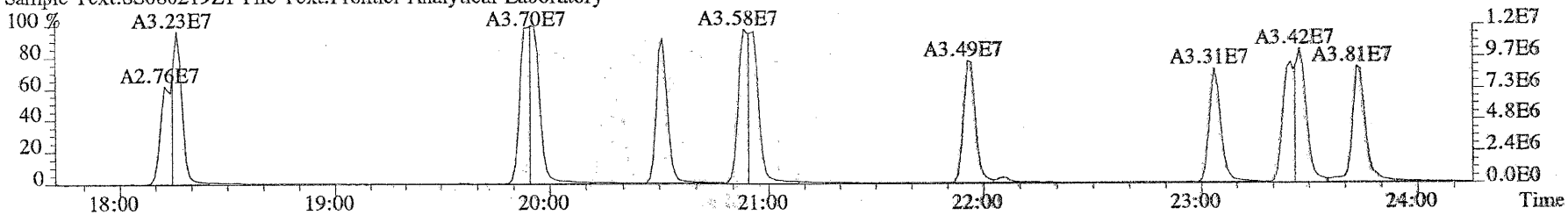
File:02AUG19Z #1-784 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



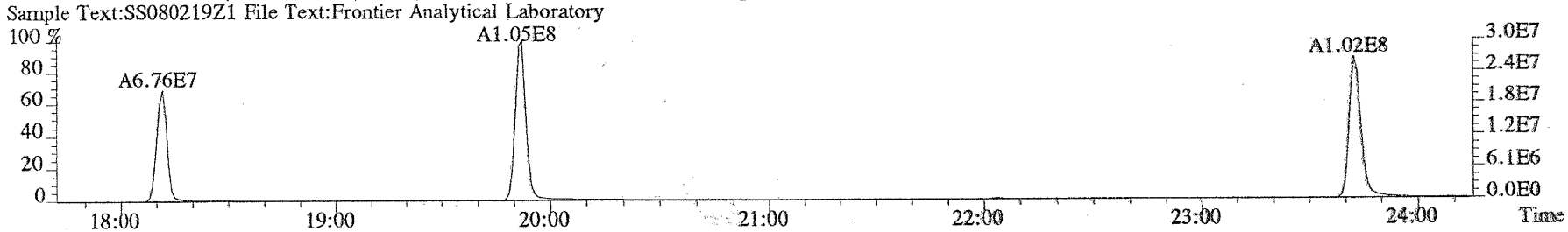
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



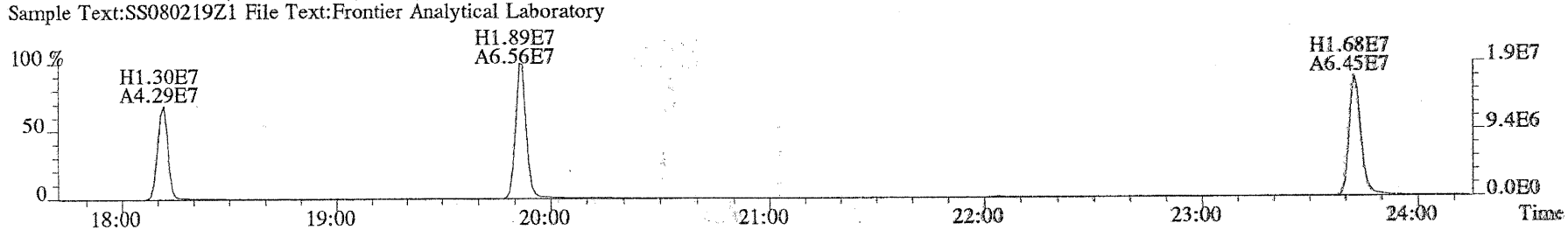
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



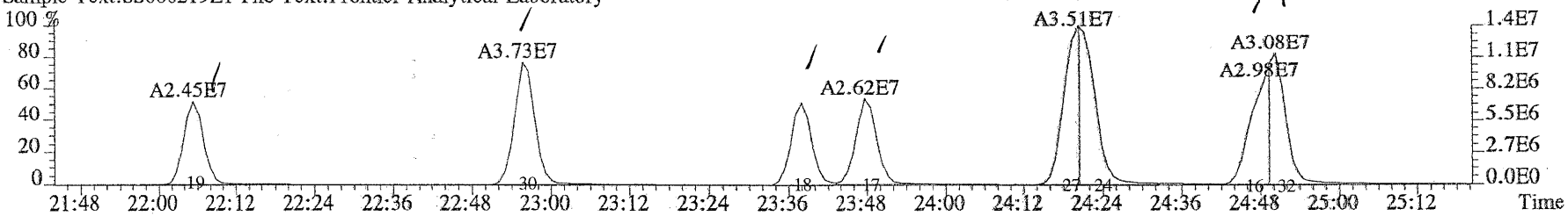
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



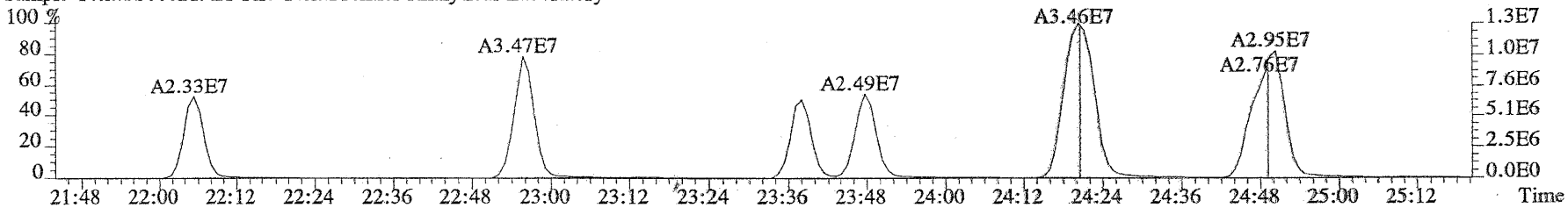
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



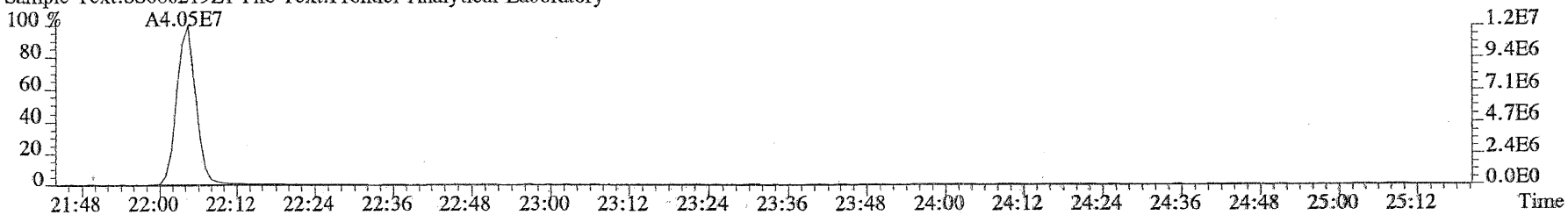
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



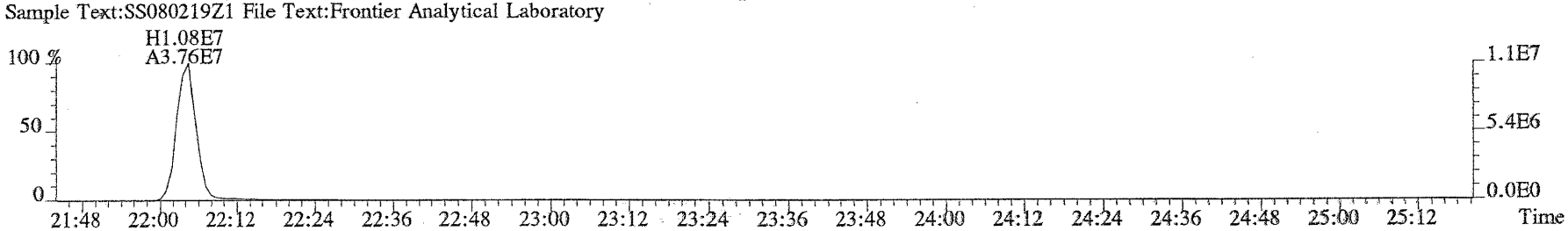
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



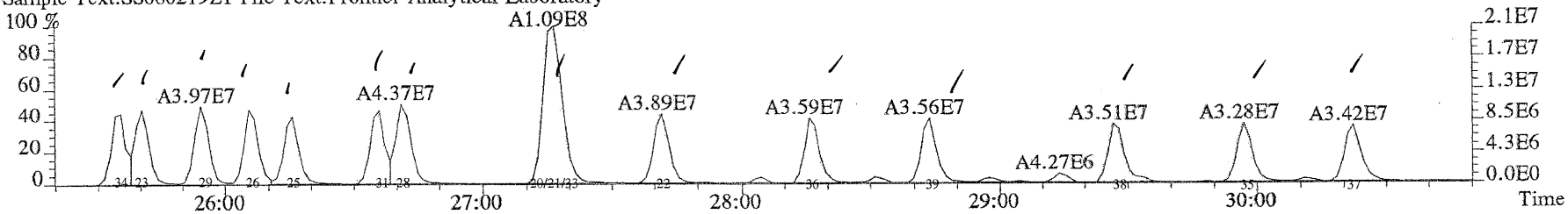
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



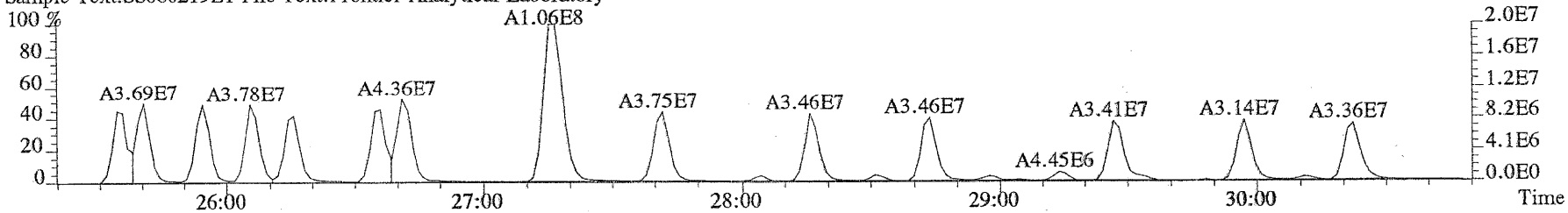
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



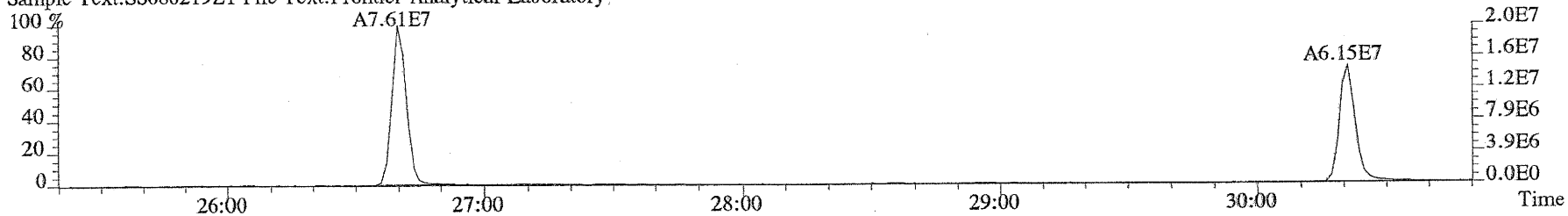
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



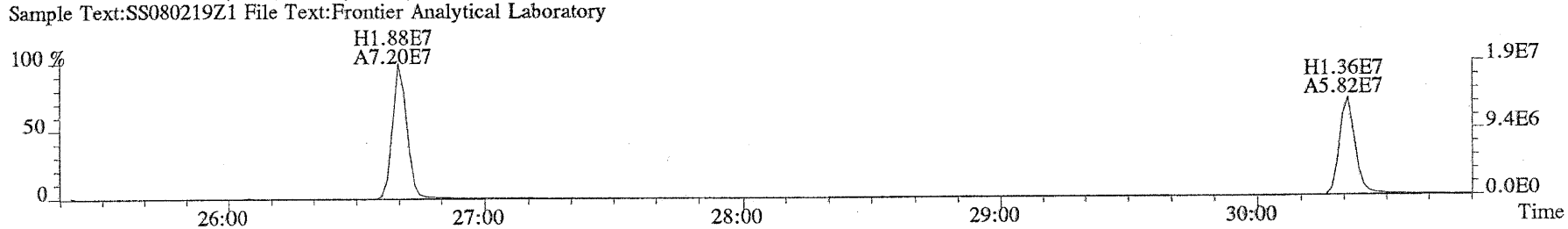
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



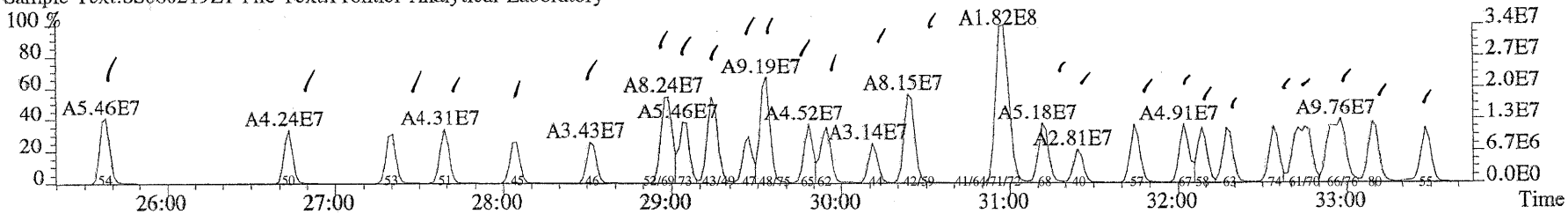
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



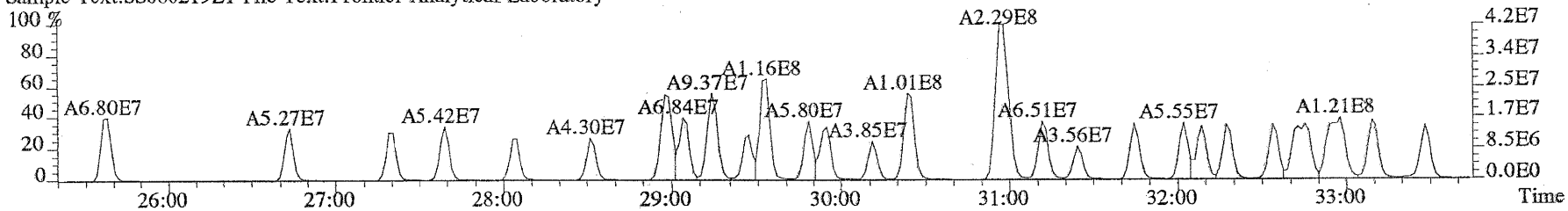
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



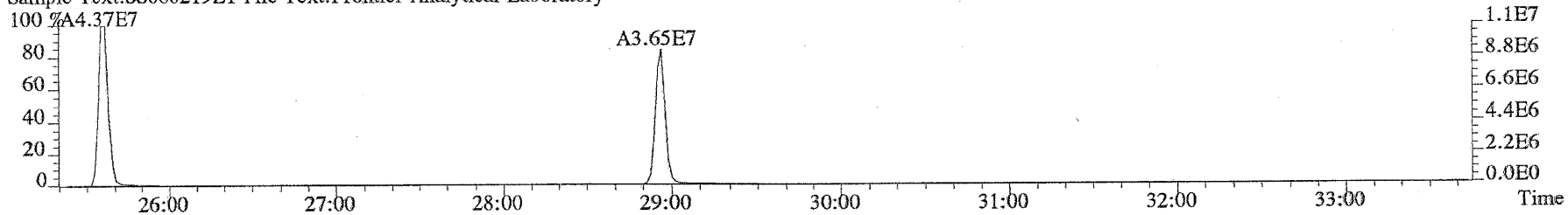
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



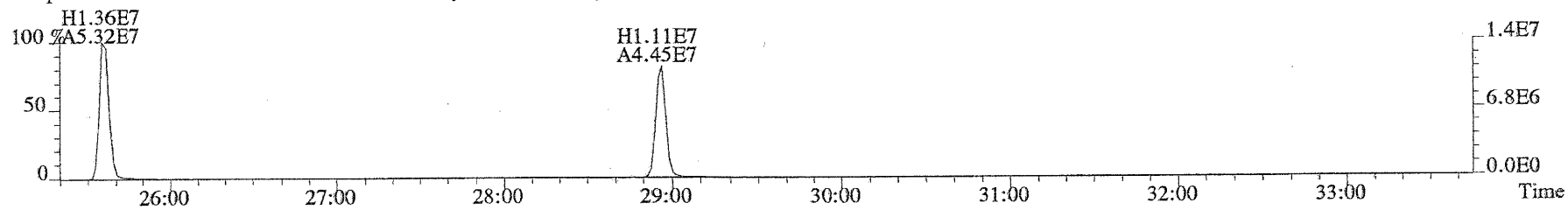
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



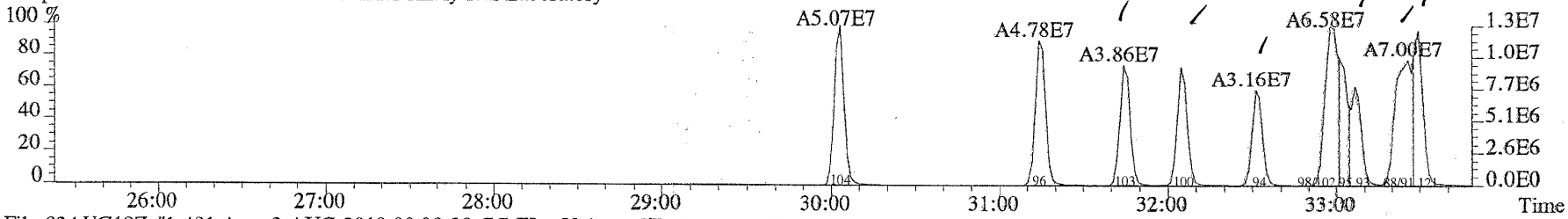
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



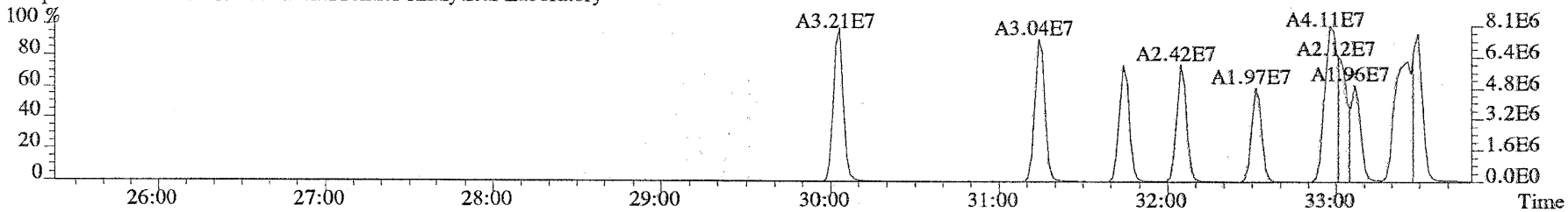
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



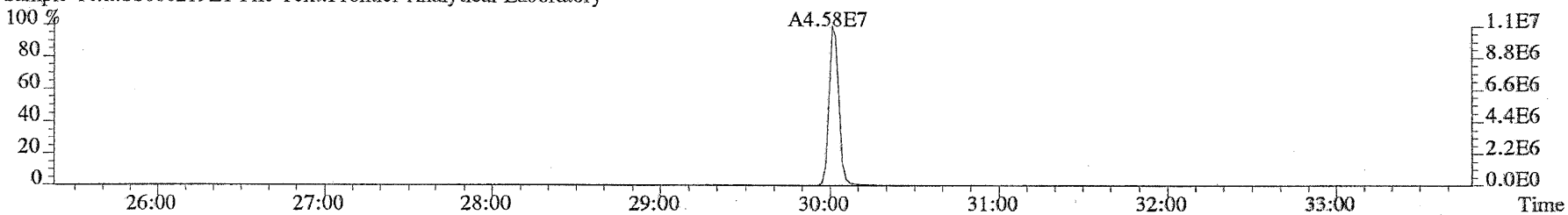
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



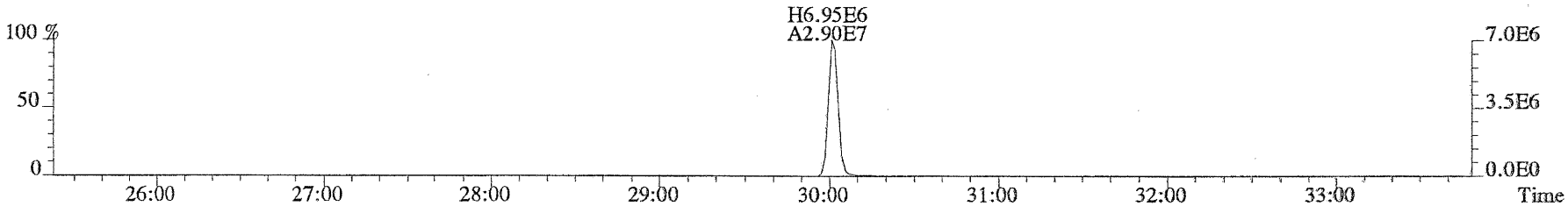
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



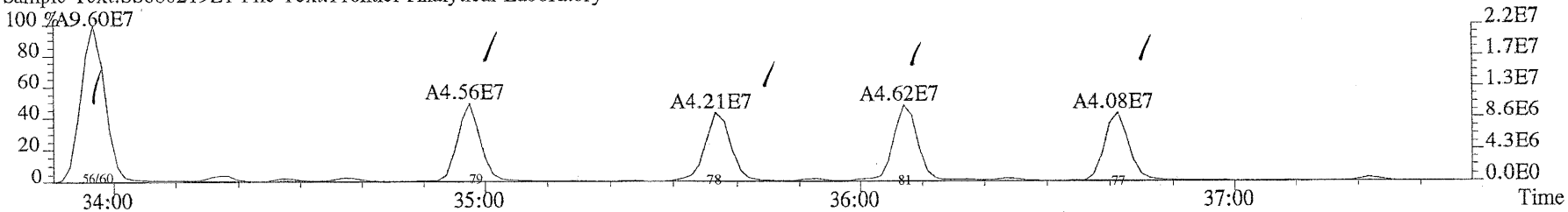
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



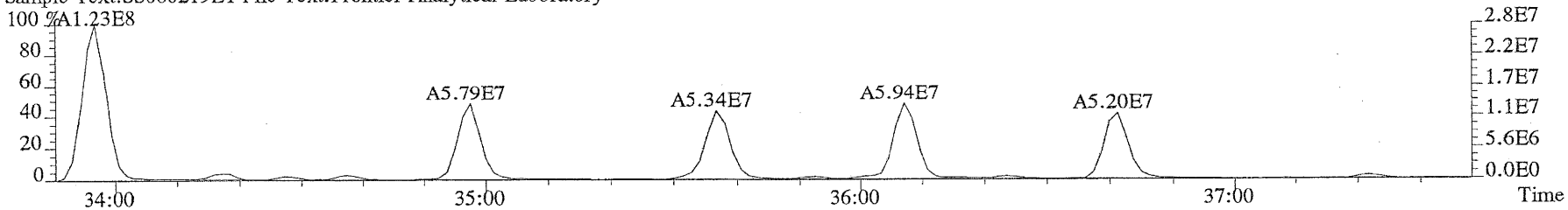
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



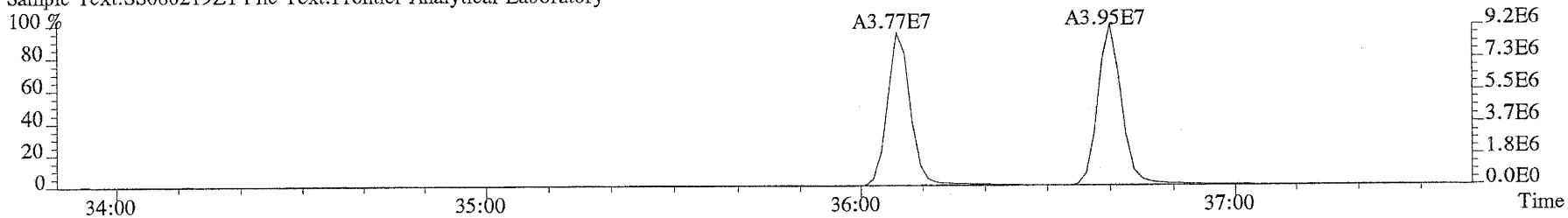
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



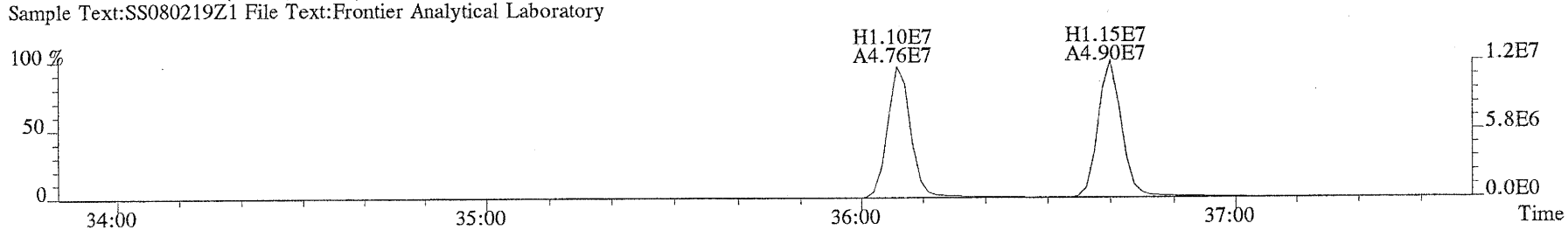
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



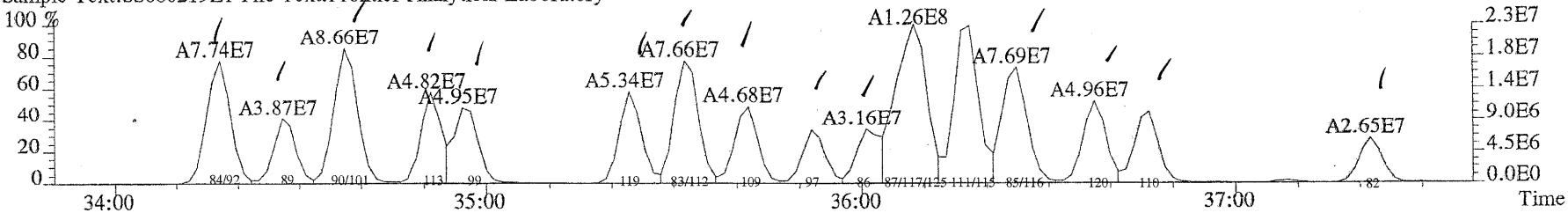
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



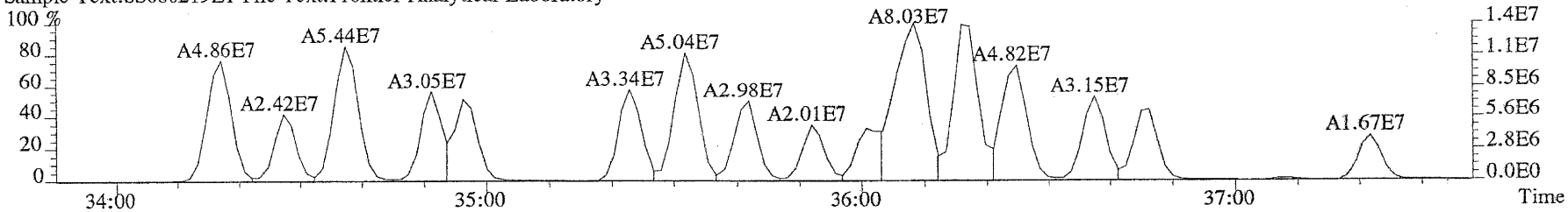
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



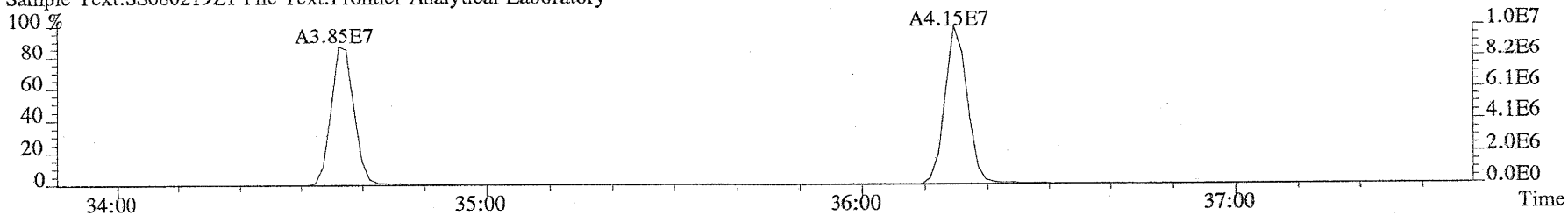
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



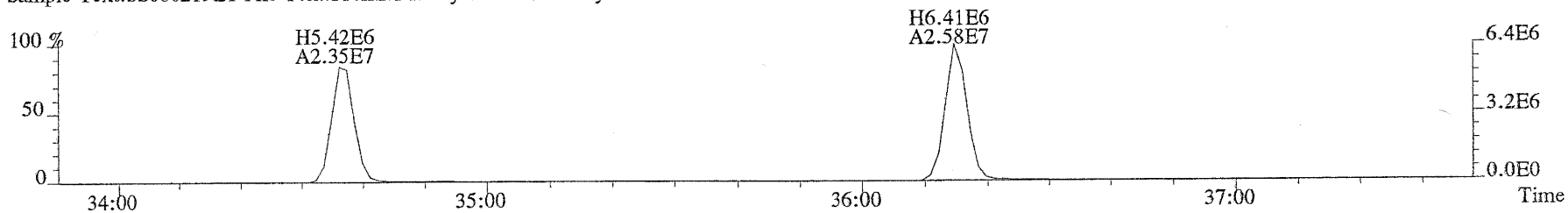
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



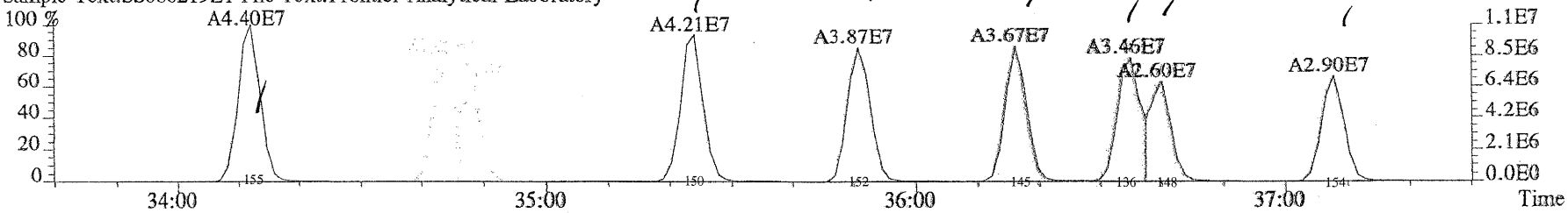
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



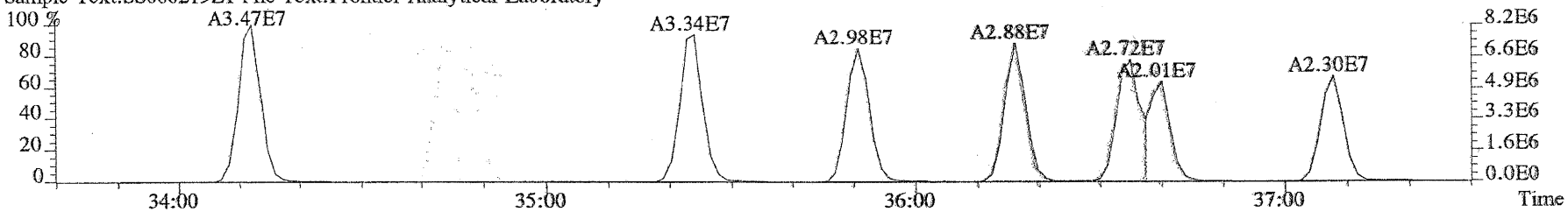
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



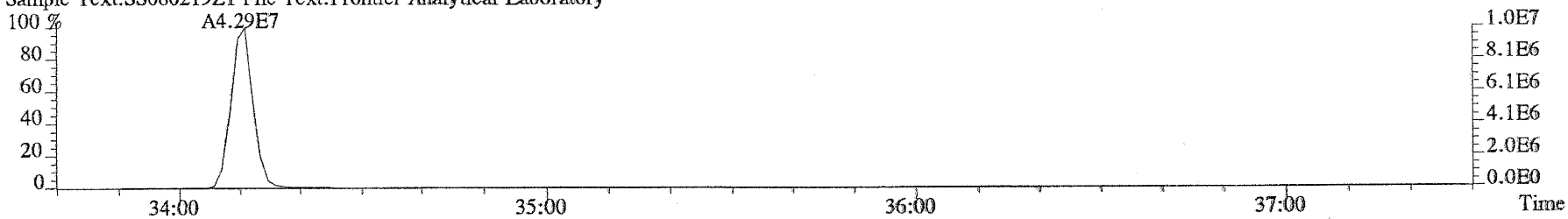
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



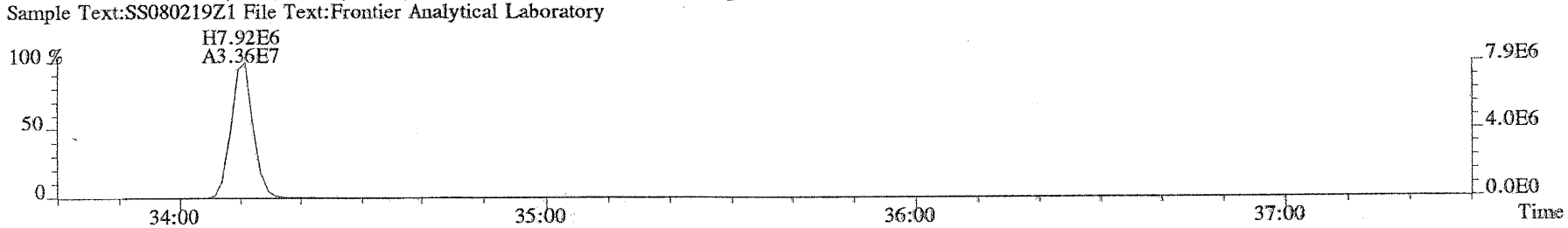
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



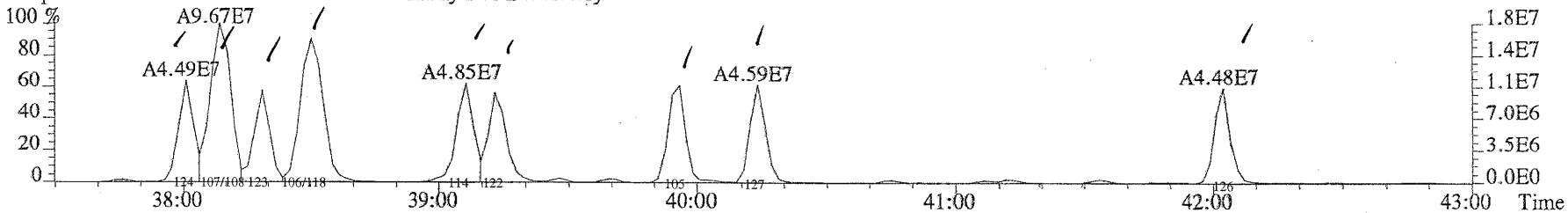
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



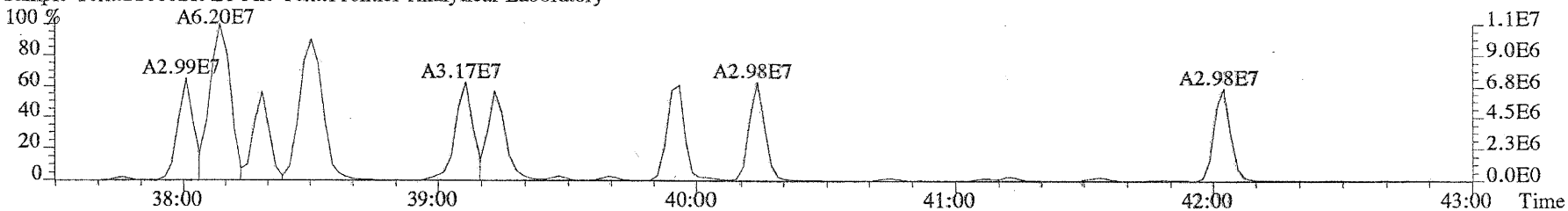
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



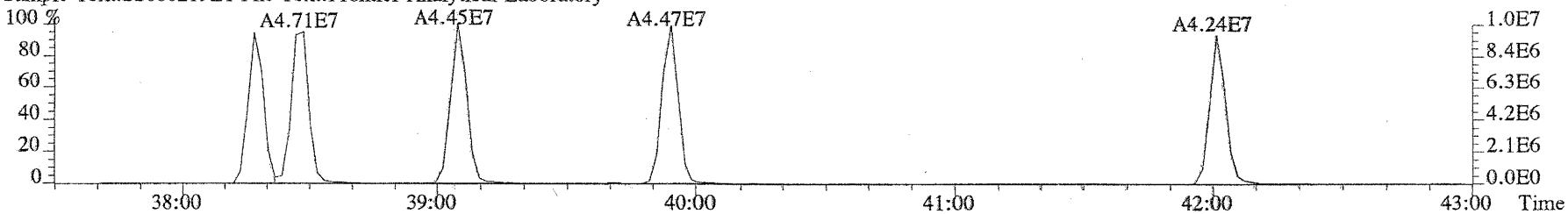
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



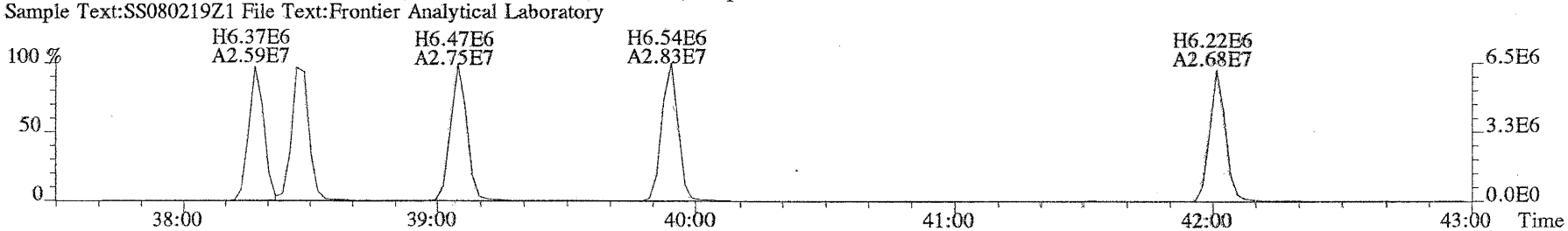
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



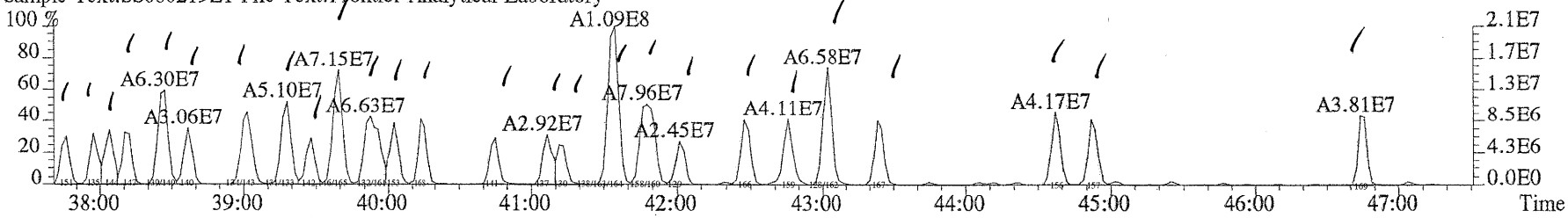
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



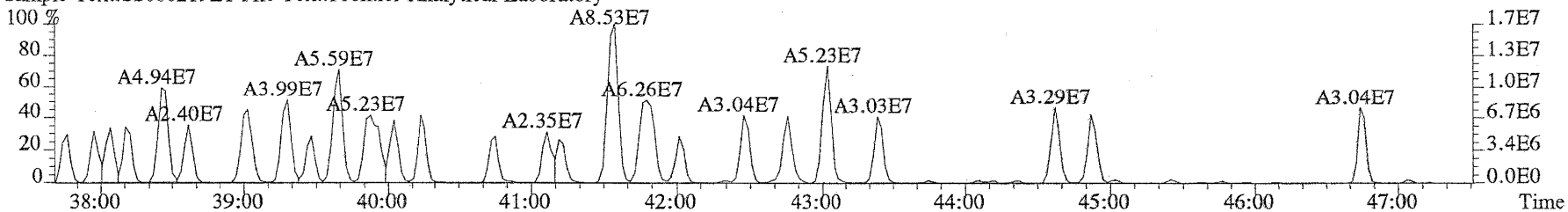
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



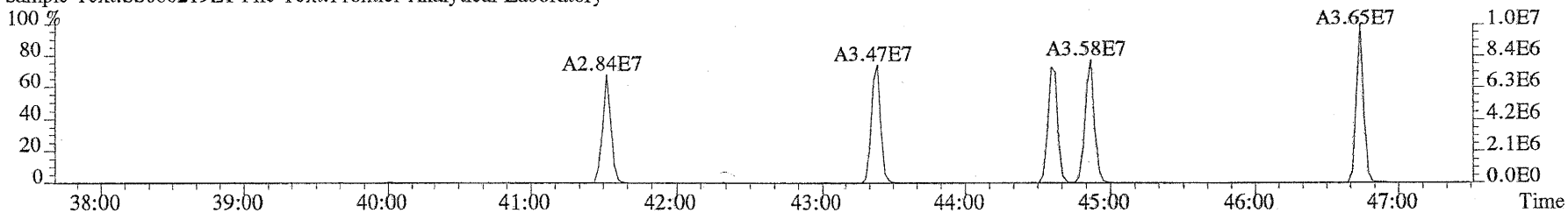
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



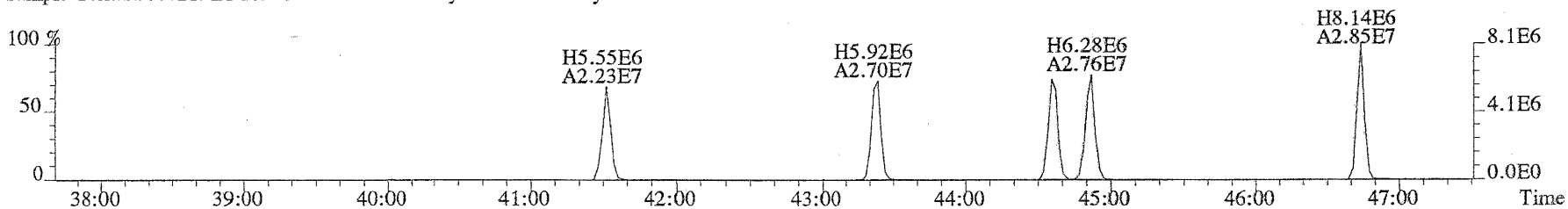
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



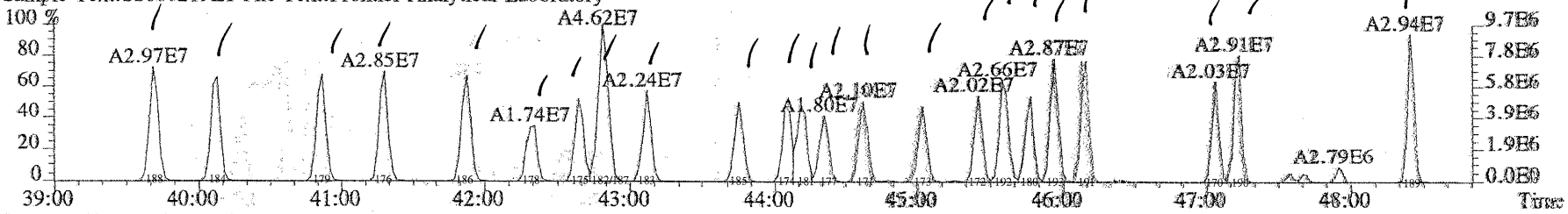
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



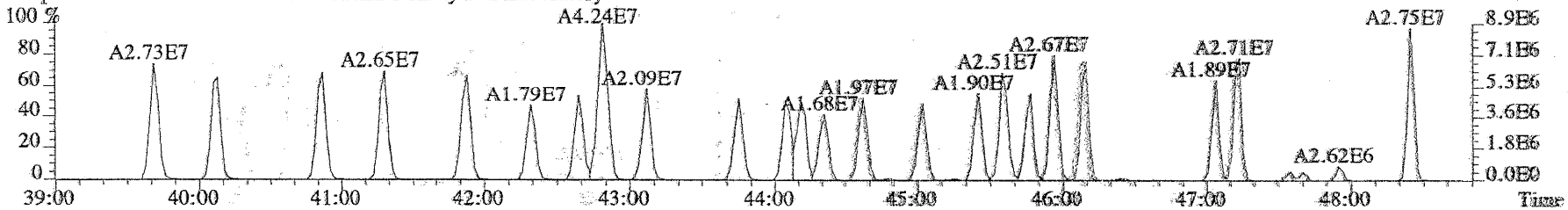
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



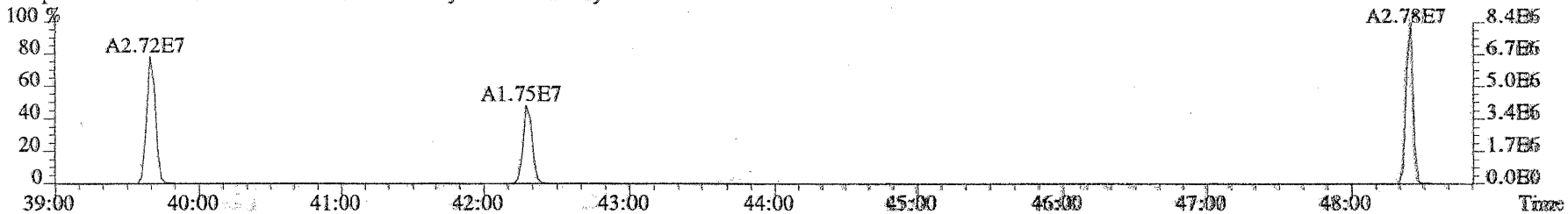
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



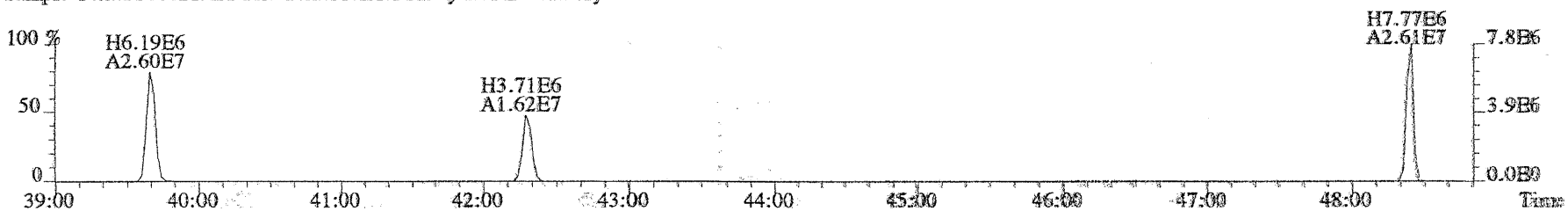
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



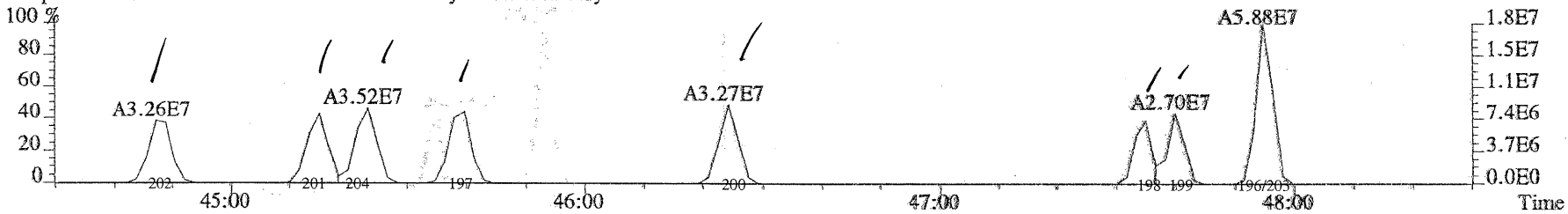
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



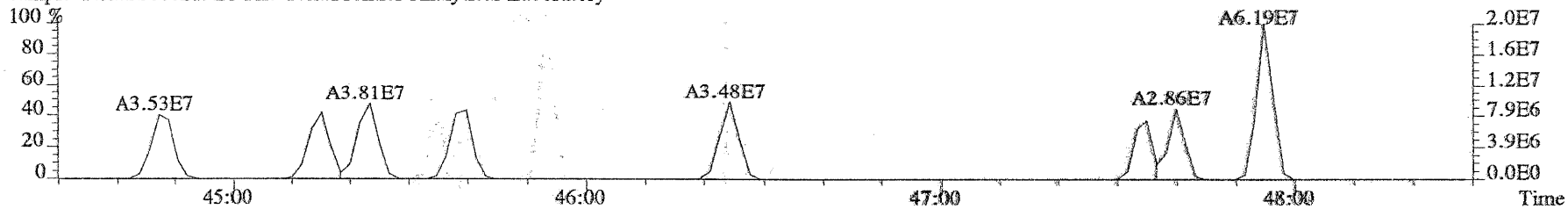
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



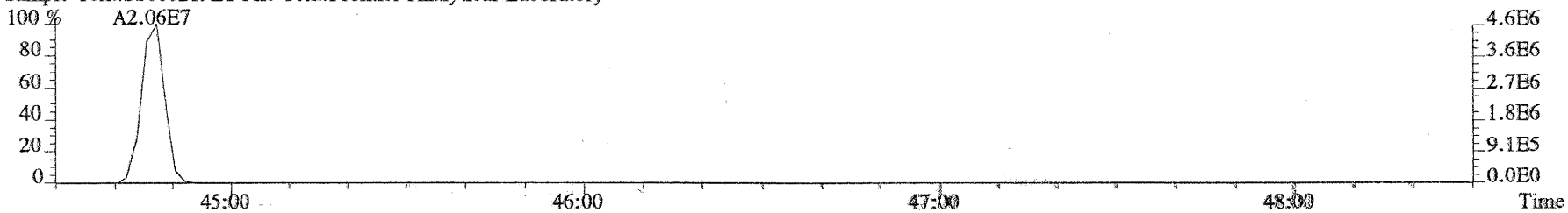
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



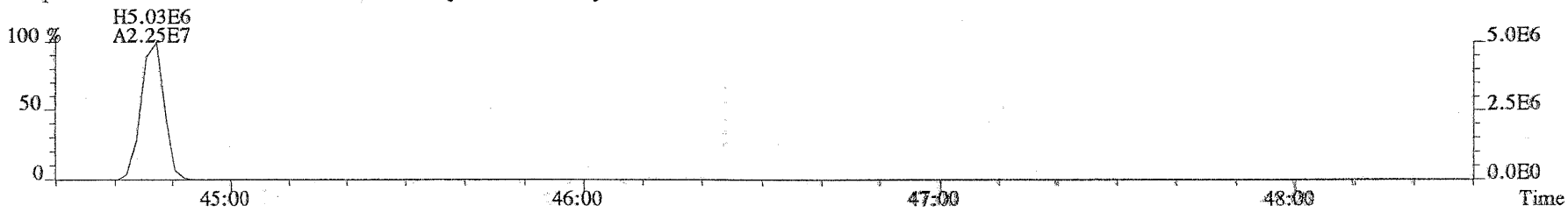
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



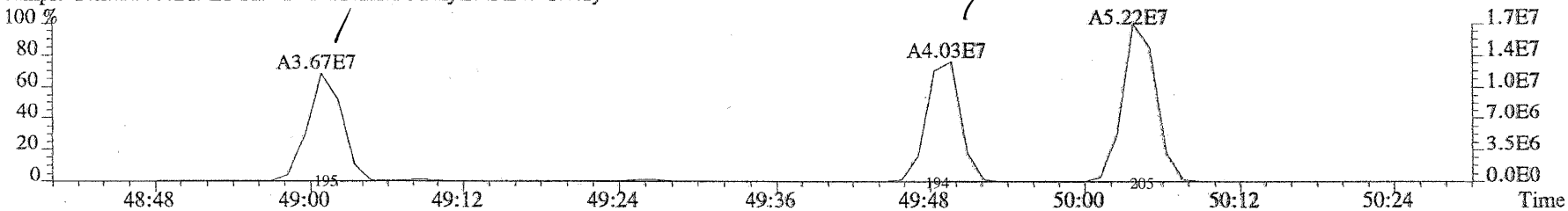
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



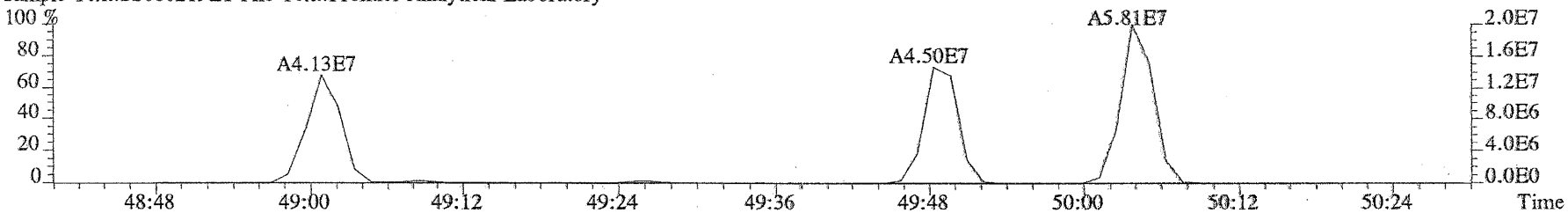
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



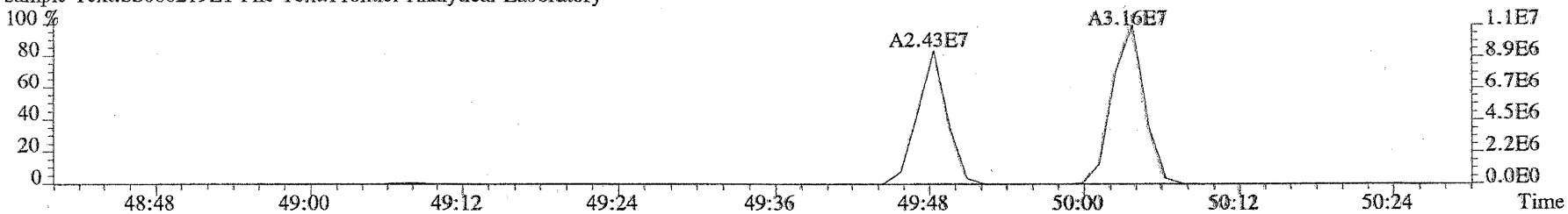
File:02AUG19Z #1-260 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



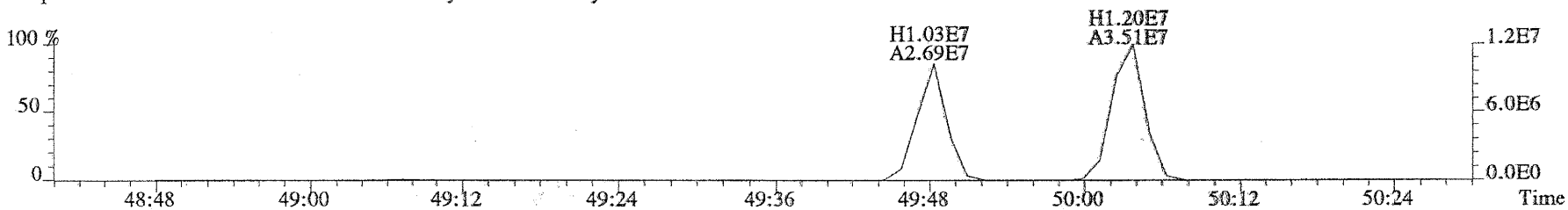
File:02AUG19Z #1-260 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



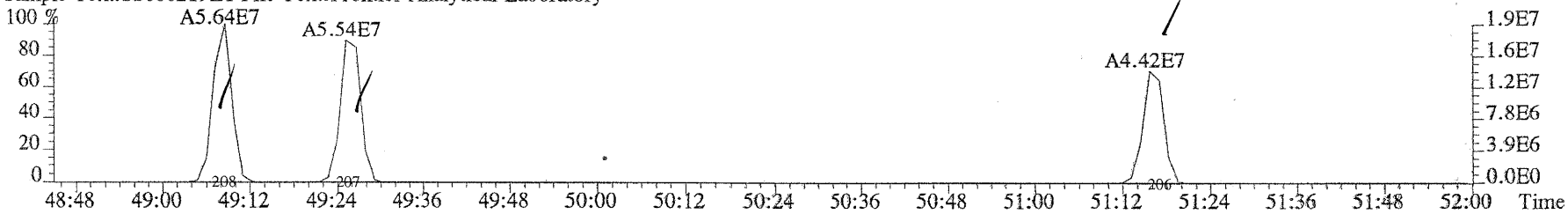
File:02AUG19Z #1-260 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



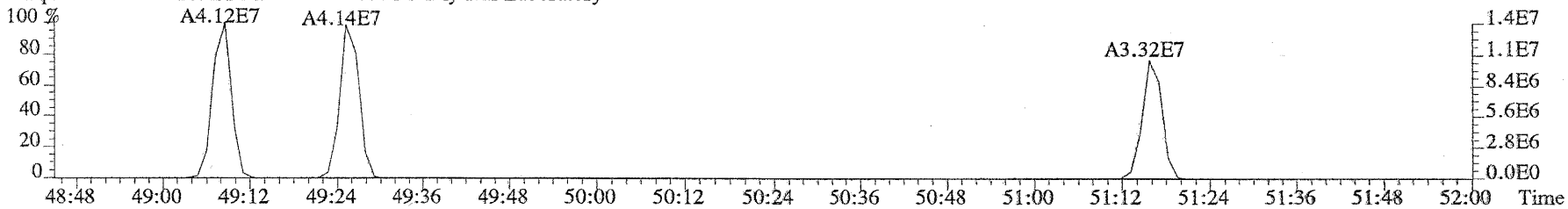
File:02AUG19Z #1-260 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



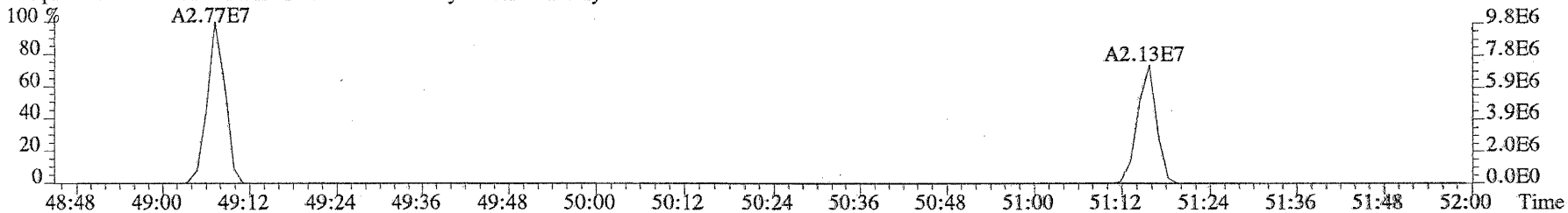
File:02AUG19Z #1-261 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



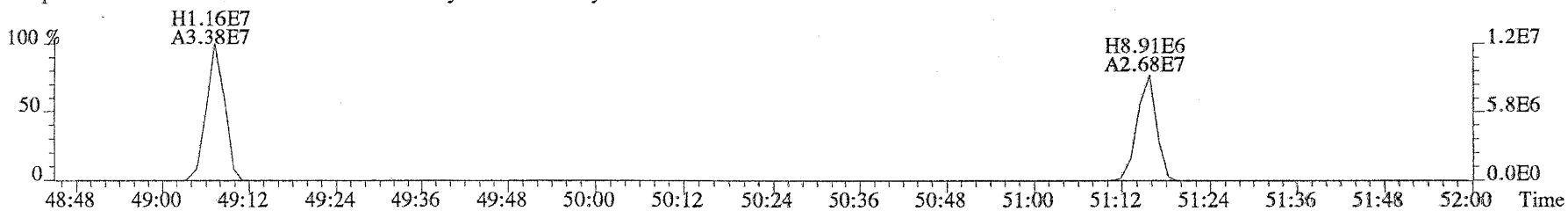
File:02AUG19Z #1-261 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



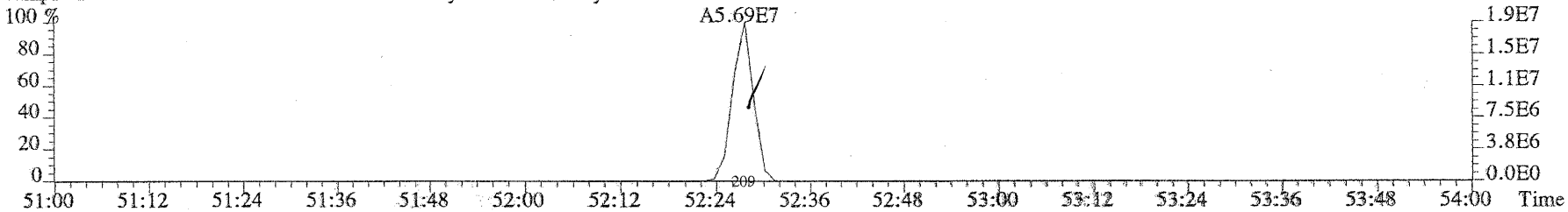
File:02AUG19Z #1-261 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



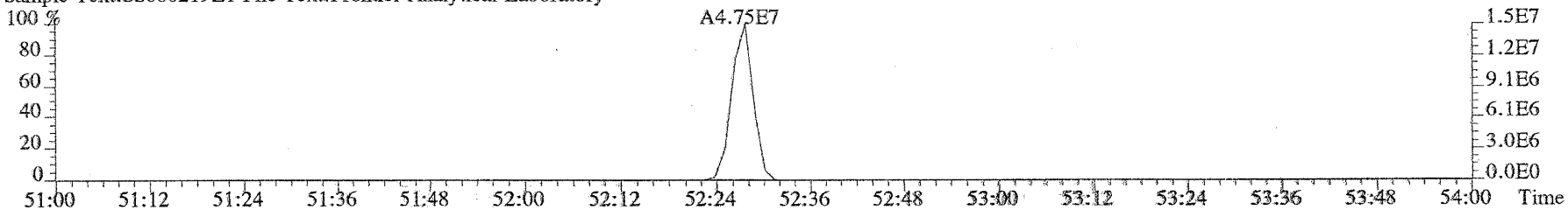
File:02AUG19Z #1-261 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



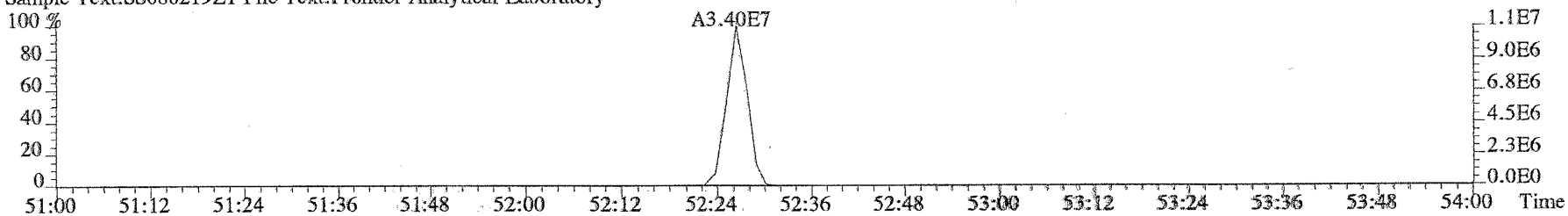
File:02AUG19Z #1-262 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



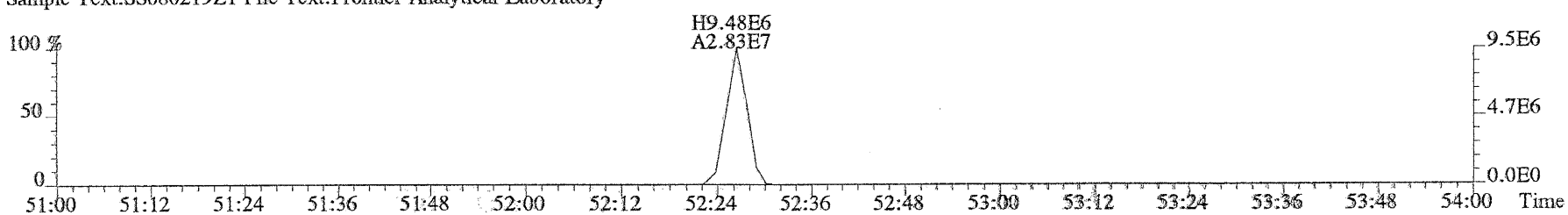
File:02AUG19Z #1-262 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-262 Acq: 2-AUG-2019 08:00:38 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:SS080219Z1 File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-262 Acq: 2-AUG-2019 08:00:38 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:SS080219Z1 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: 02AUG19Z Sam:16 Analysis Date: 2-AUG-19 21:38:52

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.21	2.66-3.60	y	50.0	37.5 - 62.5
PCB-3	M/M+2	3.11	2.66-3.60	y	50.5	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	51.2	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	51.0	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	52.2	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	53.1	37.5 - 62.5
PCB-54	M/M+2	0.81	0.65-0.89	y	53.4	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	53.6	37.5 - 62.5
PCB-81	M/M+2	0.79	0.65-0.89	y	53.2	37.5 - 62.5
PCB-104	M+2/M+4	1.57	1.32-1.78	y	51.8	37.5 - 62.5
PCB-105	M+2/M+4	1.57	1.32-1.78	y	52.5	37.5 - 62.5
PCB-114	M+2/M+4	1.56	1.32-1.78	y	53.7	37.5 - 62.5
PCB-118	M+2/M+4	1.54	1.32-1.78	y	53.6	37.5 - 62.5
PCB-123	M+2/M+4	1.52	1.32-1.78	y	51.8	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	54.3	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	50.3	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	52.2	37.5 - 62.5
PCB-157	M+2/M+4	1.29	1.05-1.43	y	51.4	37.5 - 62.5
PCB-167	M+2/M+4	1.28	1.05-1.43	y	53.2	37.5 - 62.5
PCB-169	M+2/M+4	1.28	1.05-1.43	y	53.6	37.5 - 62.5
PCB-188	M+2/M+4	1.03	0.89-1.21	y	50.7	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	52.4	37.5 - 62.5
PCB-202	M+2/M+4	0.93	0.76-1.02	y	51.9	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	55.4	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	51.7	37.5 - 62.5
PCB-208	M+4/M+6	1.37	1.13-1.53	y	53.3	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	51.1	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: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 02AUG19Z Sam:16 Analysis Date: 2-AUG-19 21:38:52

	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	3.17	2.66-3.60	y	100	50.0 - 145
13C-PCB-3	M/M+2	3.22	2.66-3.60	y	97.5	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	102	50.0 - 145
13C-PCB-15	M/M+2	1.61	1.33-1.79	y	87.2	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	1.09	0.88-1.20	y	89.6	50.0 - 145
13C-PCB-54	M/M+2	0.83	0.65-0.89	y	115	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	96.8	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	98.3	50.0 - 145
13C-PCB-104	M+2/M+4	1.61	1.32-1.78	y	109	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	98.3	50.0 - 145
13C-PCB-114	M+2/M+4	1.60	1.32-1.78	y	96.8	50.0 - 145
13C-PCB-118	M+2/M+4	1.59	1.32-1.78	y	97.6	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	99.5	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	94.4	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	109	50.0 - 145
13C-PCB-156	M+2/M+4	1.31	1.05-1.43	y	96.6	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	95.6	50.0 - 145
13C-PCB-167	M+2/M+4	1.30	1.05-1.43	y	93.9	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	100	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	98.7	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	114	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	98.7	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	95.9	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	98.9	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	96.0	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	99.3	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	113	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	100	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	103	75.0 - 125

Analyst: [signature] Date: 8/5/19

FAL ID: ST080219Z2 Filename: 02AUG19Z Sam:16 Acquired: 2-AUG-19 21:38:52 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 02AUG19Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	8.42e+07	3.21 y	14:31	1.19	50.0		2.50	-	-	*	-
13C-PCB-1	1.41e+08	3.17 y	14:30	1.02	100		2.50				100
PCB-3	7.72e+07	3.11 y	16:56	1.18	50.5		2.50	-	-	*	-
13C-PCB-3	1.30e+08	3.22 y	16:56	0.97	97.5		2.50				97.5
PCB-4	5.53e+07	1.57 y	18:10	1.04	51.2		2.50	-	-	*	-
13C-PCB-4	1.04e+08	1.60 y	18:10	0.74	102		2.50				102
PCB-15	6.08e+07	1.56 y	23:42	1.03	51.0		2.50	-	-	*	-
13C-PCB-15	1.16e+08	1.61 y	23:41	0.96	87.2		2.50				87.2
PCB-19	4.25e+07	1.06 y	22:03	1.11	52.2		2.50	-	-	*	-
13C-PCB-19	7.34e+07	1.07 y	22:02	0.53	101		2.50				101
13C-PCB-9	1.38e+08	1.62 y	19:50	-	178		2.50				
PCB-37	4.28e+07	1.05 y	30:21	1.04	53.1		2.50	-	-	*	-
13C-PCB-37	7.77e+07	1.09 y	30:20	1.57	89.6		2.50				89.6
PCB-54	5.45e+07	0.81 y	25:35	1.16	53.4		2.50	-	-	*	-
13C-PCB-54	8.77e+07	0.83 y	25:34	1.38	115		2.50				115
PCB-104	3.75e+07	1.57 y	30:01	1.08	51.8		2.50	-	-	*	-
13C-PCB-104	6.69e+07	1.61 y	29:59	1.11	109		2.50				109
13C-PCB-28	1.06e+08	1.04 y	26:38	1.71	113		2.50				113
13C-PCB-52	5.53e+07	0.81 y	28:54	-	145		2.50				
PCB-81	3.30e+07	0.79 y	36:06	1.06	53.2		2.50	-	-	*	-
13C-PCB-81	5.83e+07	0.81 y	36:04	1.50	98.3		2.50				98.3
PCB-77	3.28e+07	0.80 y	36:40	1.02	53.6		2.50	-	-	*	-
13C-PCB-77	6.00e+07	0.80 y	36:39	1.57	96.8		2.50				96.8
PCB-155	3.16e+07	1.26 y	34:09	1.02	50.3		2.50	-	-	*	-
13C-PCB-155	6.13e+07	1.28 y	34:08	1.42	109		2.50				109
13C-PCB-111	5.10e+07	1.61 y	36:13	1.29	100		2.50				100
13C-PCB-101	3.96e+07	1.65 y	34:35	-	120		2.50				
PCB-123	2.85e+07	1.52 y	38:17	1.03	51.8		2.50	-	-	*	-
13C-PCB-123	5.33e+07	1.59 y	38:15	1.40	99.5		2.50				99.5
PCB-118	3.13e+07	1.54 y	38:27	1.02	53.6		2.50	-	-	*	-
13C-PCB-118	5.74e+07	1.59 y	38:27	1.53	97.6		2.50				97.6
PCB-114	2.93e+07	1.56 y	39:05	1.01	53.7		2.50	-	-	*	-
13C-PCB-114	5.37e+07	1.60 y	39:03	1.45	96.8		2.50				96.8
PCB-105	2.89e+07	1.57 y	39:54	1.02	52.5		2.50	-	-	*	-
13C-PCB-105	5.42e+07	1.60 y	39:52	1.44	98.3		2.50				98.3
PCB-126	2.73e+07	1.57 y	42:01	1.02	54.3		2.50	-	-	*	-
13C-PCB-126	4.95e+07	1.60 y	41:59	1.37	94.4		2.50				94.4
PCB-167	2.62e+07	1.28 y	43:23	1.07	53.2		2.50	-	-	*	-
13C-PCB-167	4.62e+07	1.30 y	43:21	1.28	93.9		2.50				93.9
PCB-156	2.62e+07	1.25 y	44:35	1.10	52.2		2.50	-	-	*	-
13C-PCB-156	4.57e+07	1.31 y	44:35	1.24	96.6		2.50				96.6
PCB-157	2.68e+07	1.29 y	44:52	1.06	51.4		2.50	-	-	*	-
13C-PCB-157	4.90e+07	1.30 y	44:50	1.34	95.6		2.50				95.6
PCB-169	2.71e+07	1.28 y	46:44	1.06	53.6		2.50	-	-	*	-
13C-PCB-169	4.77e+07	1.29 y	46:42	1.24	100		2.50				100
PCB-188	2.51e+07	1.03 y	39:39	1.02	50.7		2.50	-	-	*	-
13C-PCB-188	4.87e+07	1.06 y	39:37	1.29	98.7		2.50				98.7
PCB-189	2.42e+07	1.06 y	48:24	0.99	52.4		2.50	-	-	*	-
13C-PCB-189	4.66e+07	1.06 y	48:23	1.07	114		2.50				114
PCB-202	2.11e+07	0.93 y	44:45	0.99	51.9		2.50	-	-	*	-
13C-PCB-202	4.11e+07	0.91 y	44:45	1.09	98.7		2.50				98.7
13C-PCB-178	3.17e+07	1.05 y	42:16	0.81	103		2.50				103
13C-PCB-138	3.83e+07	1.30 y	41:29	-	119		2.50				

FAL ID: ST080219Z2 Filename: 02AUG19Z Sam:16 Acquired: 2-AUG-19 21:38:52 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 02AUG19Z GC Column: DB1MS Amount: 1.000

PCB-205	3.24e+07	0.89	y	50:04	1.02	55.4	2.50	-	-	*	-
13C-PCB-205	5.72e+07	0.90	y	50:02	1.40	95.9	2.50				95.9
PCB-208	2.89e+07	1.37	y	49:07	0.98	53.3	2.50	-	-	*	-
13C-PCB-208	5.57e+07	0.80	y	49:06	1.36	96.0	2.50				96.0
PCB-206	2.18e+07	1.35	y	51:14	0.99	51.7	2.50	-	-	*	-
13C-PCB-206	4.24e+07	0.80	y	51:14	1.01	98.9	2.50				98.9
PCB-209	2.85e+07	1.20	y	52:26	1.09	51.1	2.50	-	-	*	-
13C-PCB-209	5.12e+07	1.20	y	52:25	1.21	99.3	2.50				99.3
13C-PCB-194	4.26e+07	0.92	y	49:47	-	139	2.50				

Analyst: _____ Date: 8/5/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:02AUG19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
02AUG19Z	1	ST080219Z1	1668 CS3 R181204D	2-AUG-19 07:02:18	ST080219Z1	ST080219Z2	BS
02AUG19Z	2	SS080219Z1	Daily 209 190408A	2-AUG-19 08:00:38	ST080219Z1	ST080219Z2	BS
02AUG19Z	3	04992-001-0001-OPR	OPR	2-AUG-19 08:58:59	ST080219Z1	ST080219Z2	BS
02AUG19Z	4	04992-001-0001-MB	Method Blank	2-AUG-19 09:57:20	ST080219Z1	ST080219Z2	BS
02AUG19Z	5	12511-001-0001-SA	LDW-Y2-IN-ENR+AC-CB-S010	2-AUG-19 10:55:41	ST080219Z1	ST080219Z2	BS
02AUG19Z	6	12511-002-0001-SA	LDW-Y2-IN-ENR+AC-CC-S010	2-AUG-19 11:54:03	ST080219Z1	ST080219Z2	BS
02AUG19Z	7	12511-003-0001-SA	LDW-Y2-IN-ENR+AC-CD-S010	2-AUG-19 12:52:24	ST080219Z1	ST080219Z2	BS
02AUG19Z	8	12511-004-0001-SA	LDW-Y2-IN-ENR+AC-CE-S010	2-AUG-19 13:50:46	ST080219Z1	ST080219Z2	BS
02AUG19Z	9	12511-005-0001-SA	LDW-Y2-IN-ENR-CA-S010	2-AUG-19 14:49:07	ST080219Z1	ST080219Z2	BS
02AUG19Z	10	12511-006-0001-SA	LDW-Y2-IN-ENR-CB-S010	2-AUG-19 15:47:28	ST080219Z1	ST080219Z2	BS
02AUG19Z	11	12511-007-0001-SA	LDW-Y2-IN-ENR-CC-S010	2-AUG-19 16:46:14	ST080219Z1	ST080219Z2	BS
02AUG19Z	12	12511-008-0001-SA	LDW-Y2-IN-ENR-CD-S010	2-AUG-19 17:45:00	ST080219Z1	ST080219Z2	BS
02AUG19Z	13	12510-014-0001-SA	LDW-Y2-SU-S010-LCB	2-AUG-19 18:43:46	ST080219Z1	ST080219Z2	BS
02AUG19Z	14	12510-015-0001-SA	LDW-Y2-IN-ENR+AC-CA-S010	2-AUG-19 19:42:07	ST080219Z1	ST080219Z2	BS
02AUG19Z	15	SB080219Z1	Solvent Blank	2-AUG-19 20:40:28	ST080219Z1	ST080219Z2	BS
02AUG19Z	16	ST080219Z2	1668 CS3 R181204D	2-AUG-19 21:38:52	ST080219Z1	ST080219Z2	BS

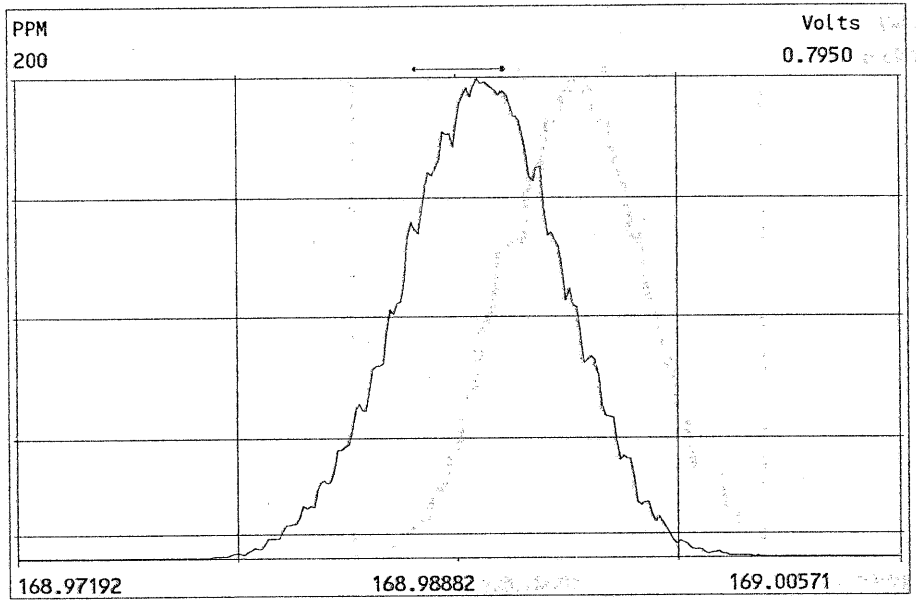
8/5/19

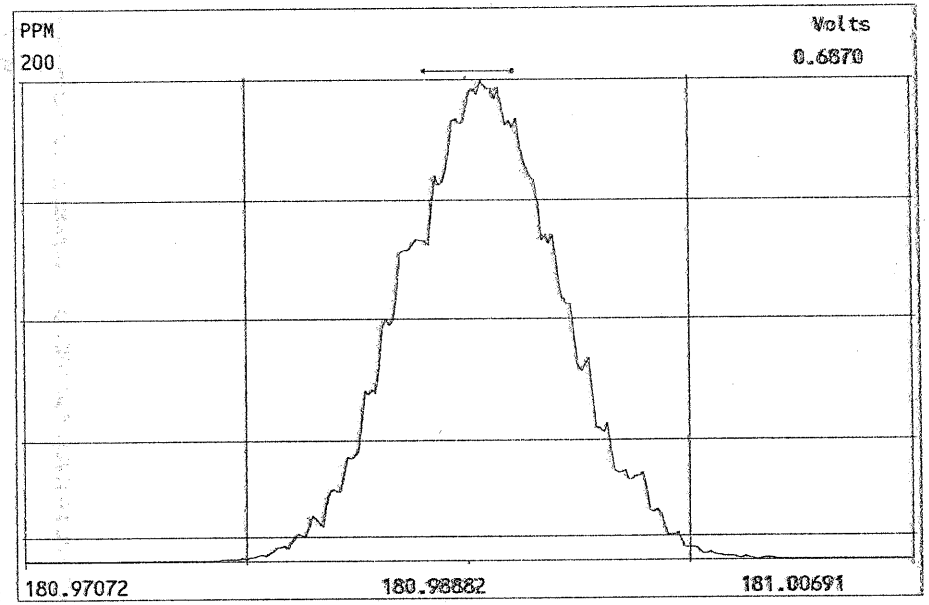
Data Backed Up:_____

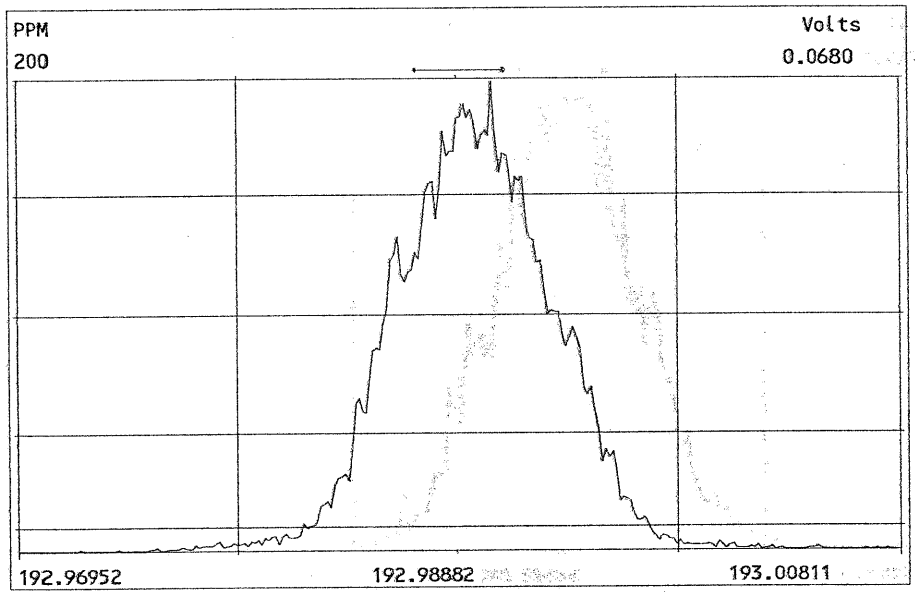
Date:_____

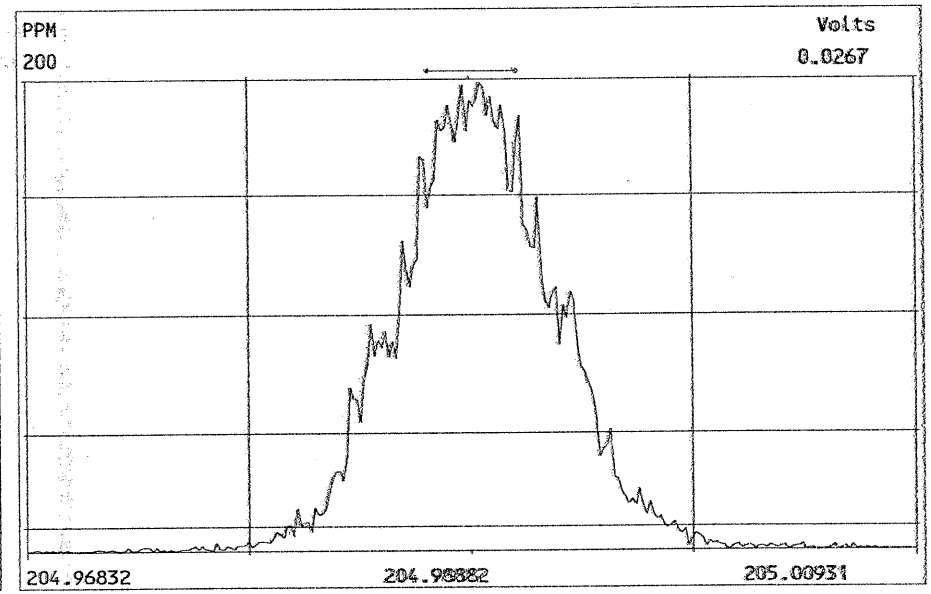
Peak Locate Examination: 2-AUG-2019:06:59 File:02AUG19Z

Experiment:1668PCB Function:1 Reference:PFK

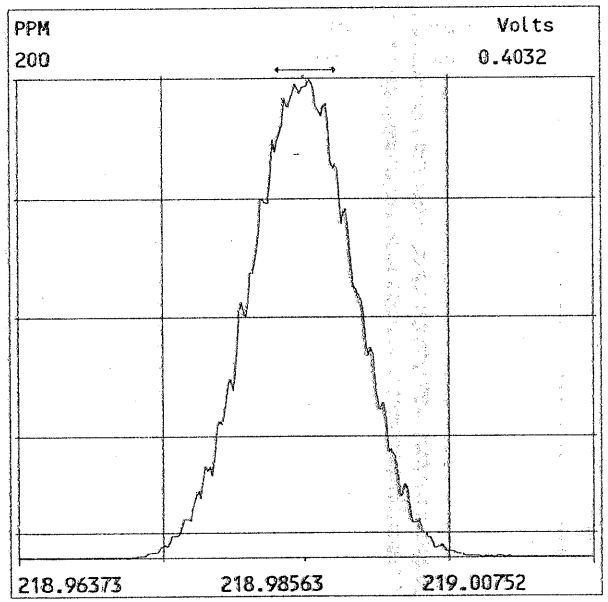


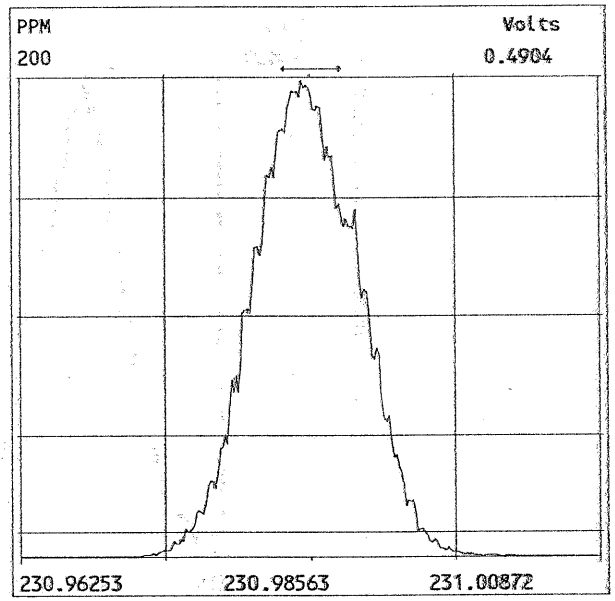


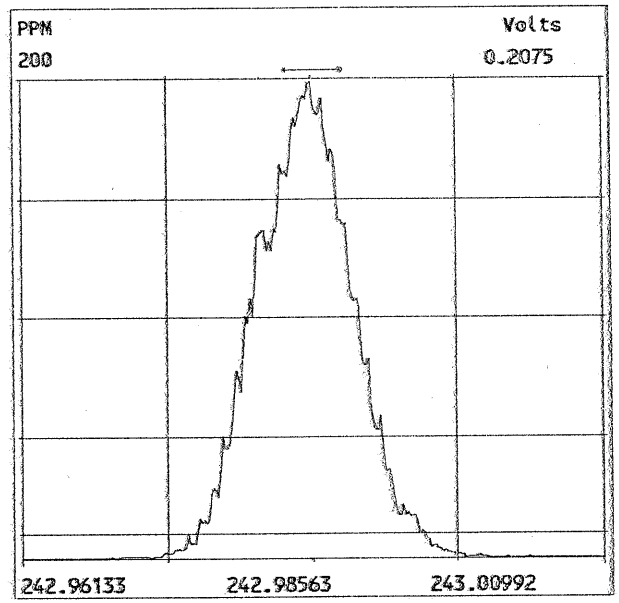


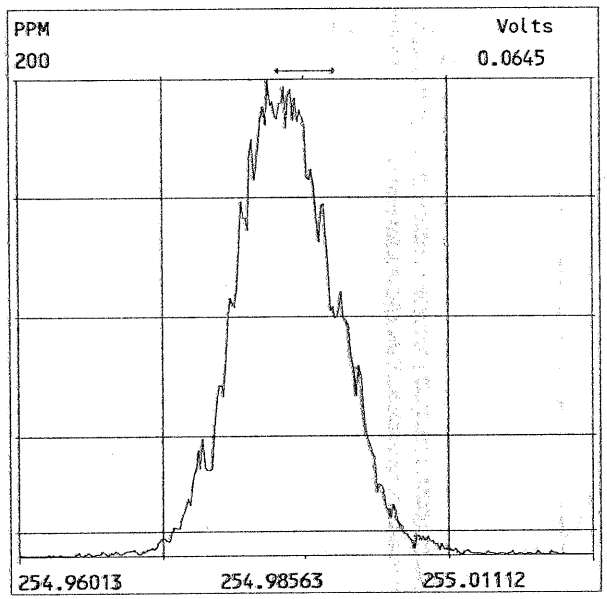


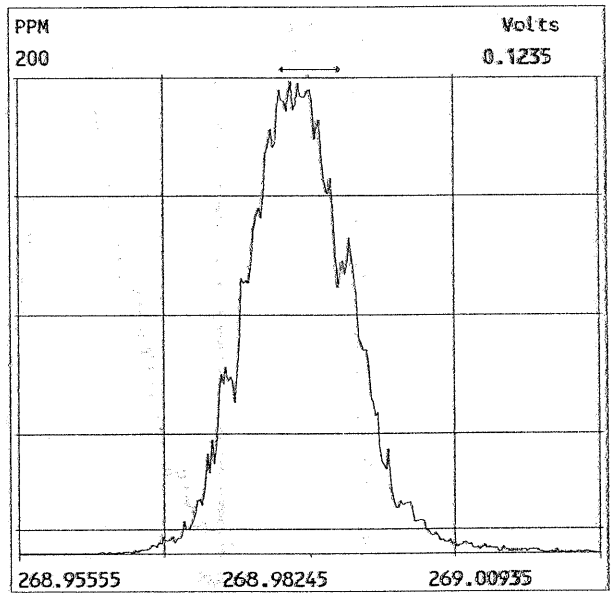
Peak Locate Examination: 2-AUG-2019:07:00 File:02AUG19Z
Experiment:1668PCB Function:2 Reference:PFK

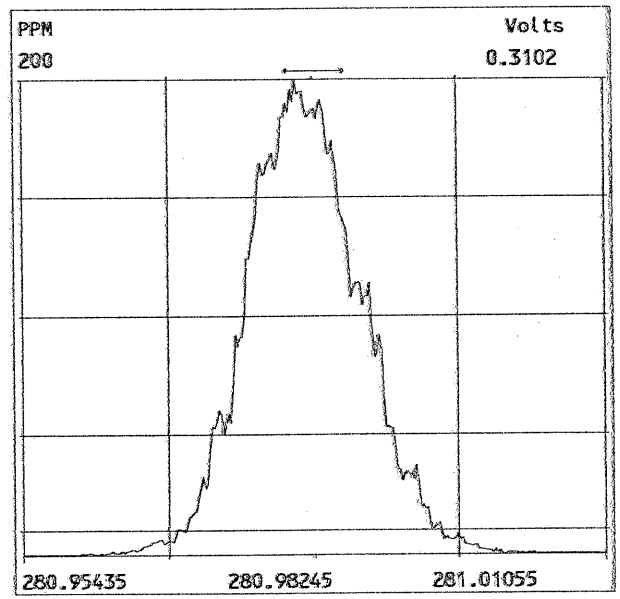




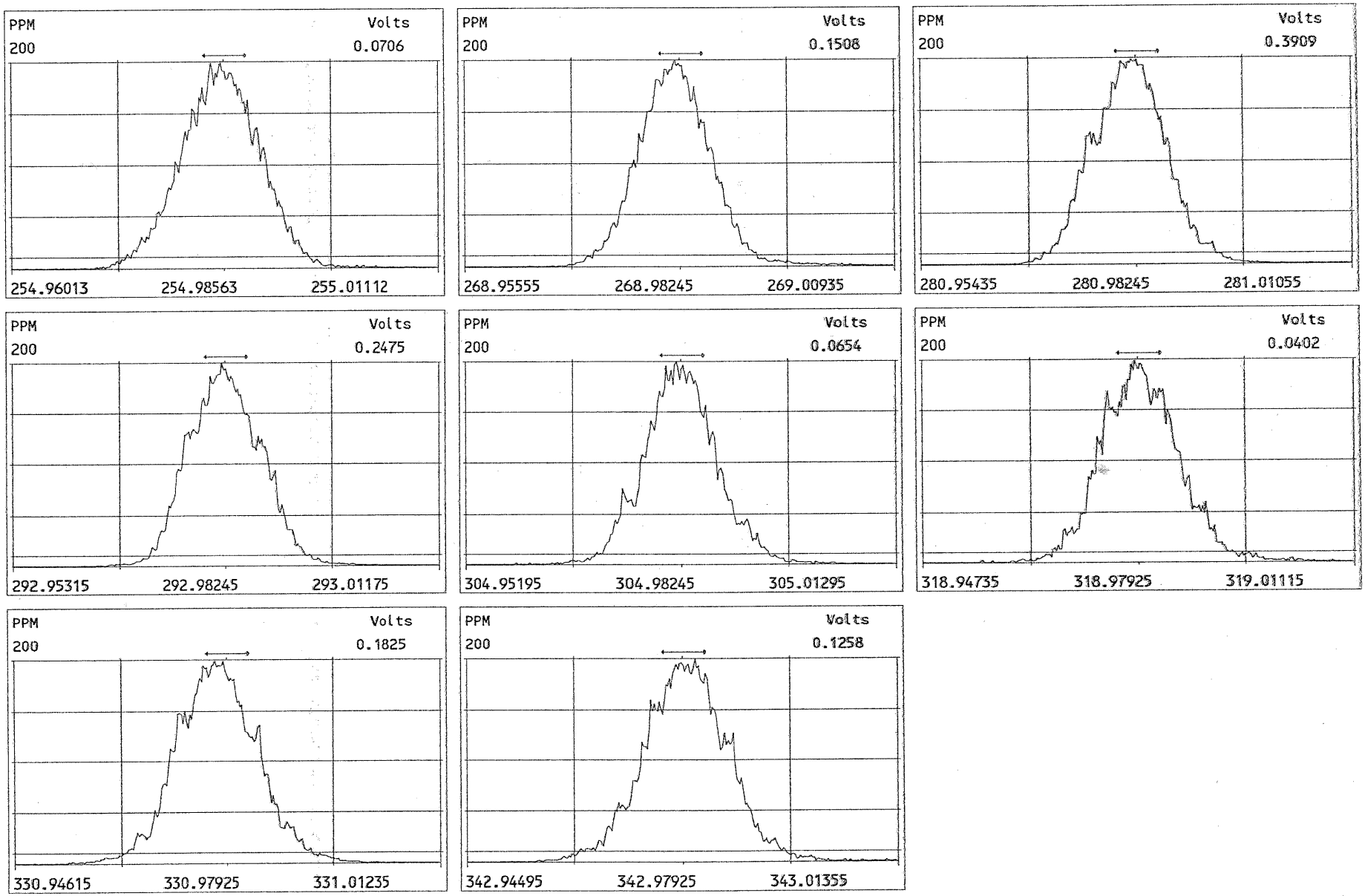




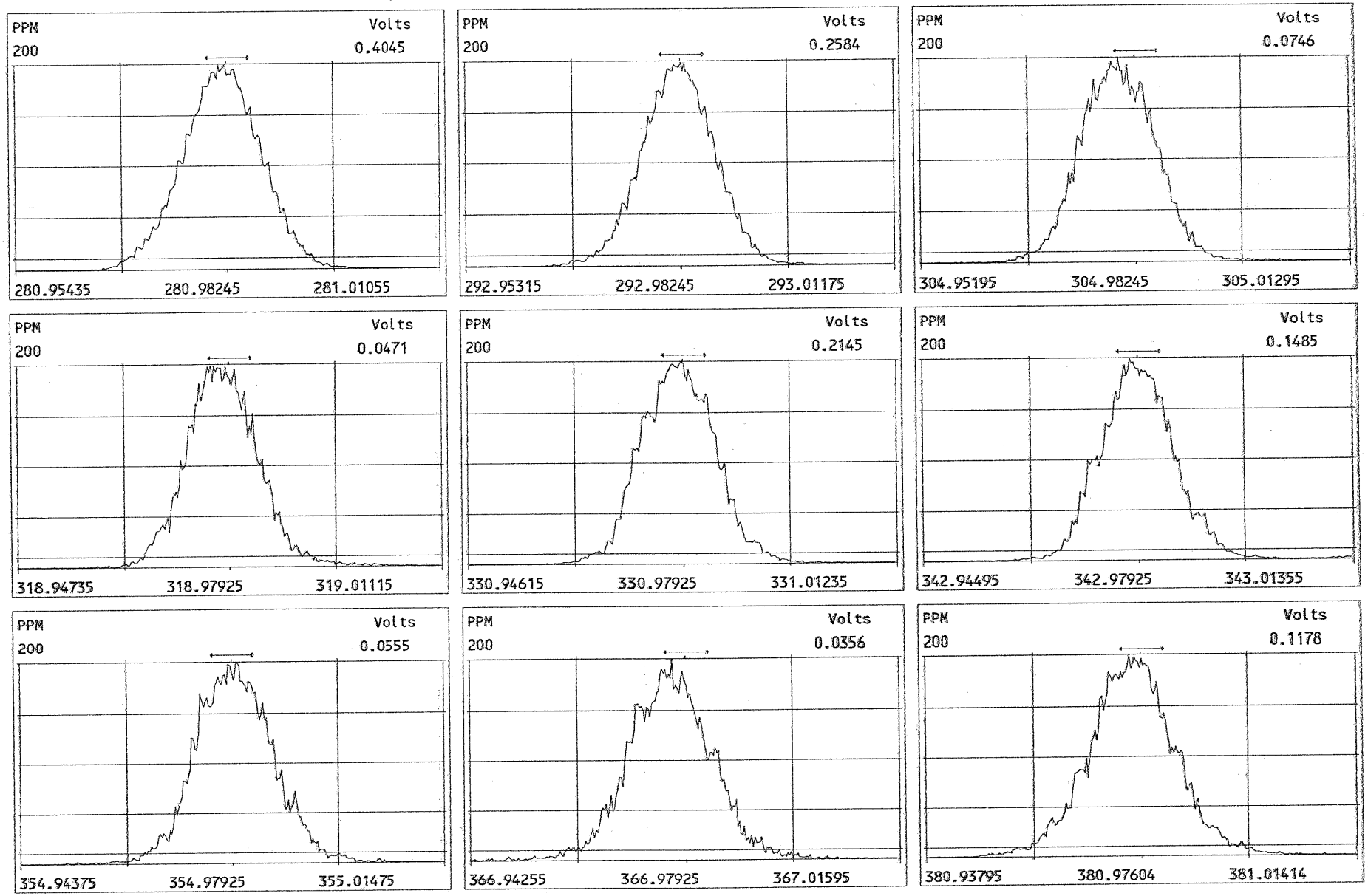




Peak Locate Examination: 2-AUG-2019:07:00 File:02AUG19Z
Experiment:1668PCB Function:3 Reference:PFK

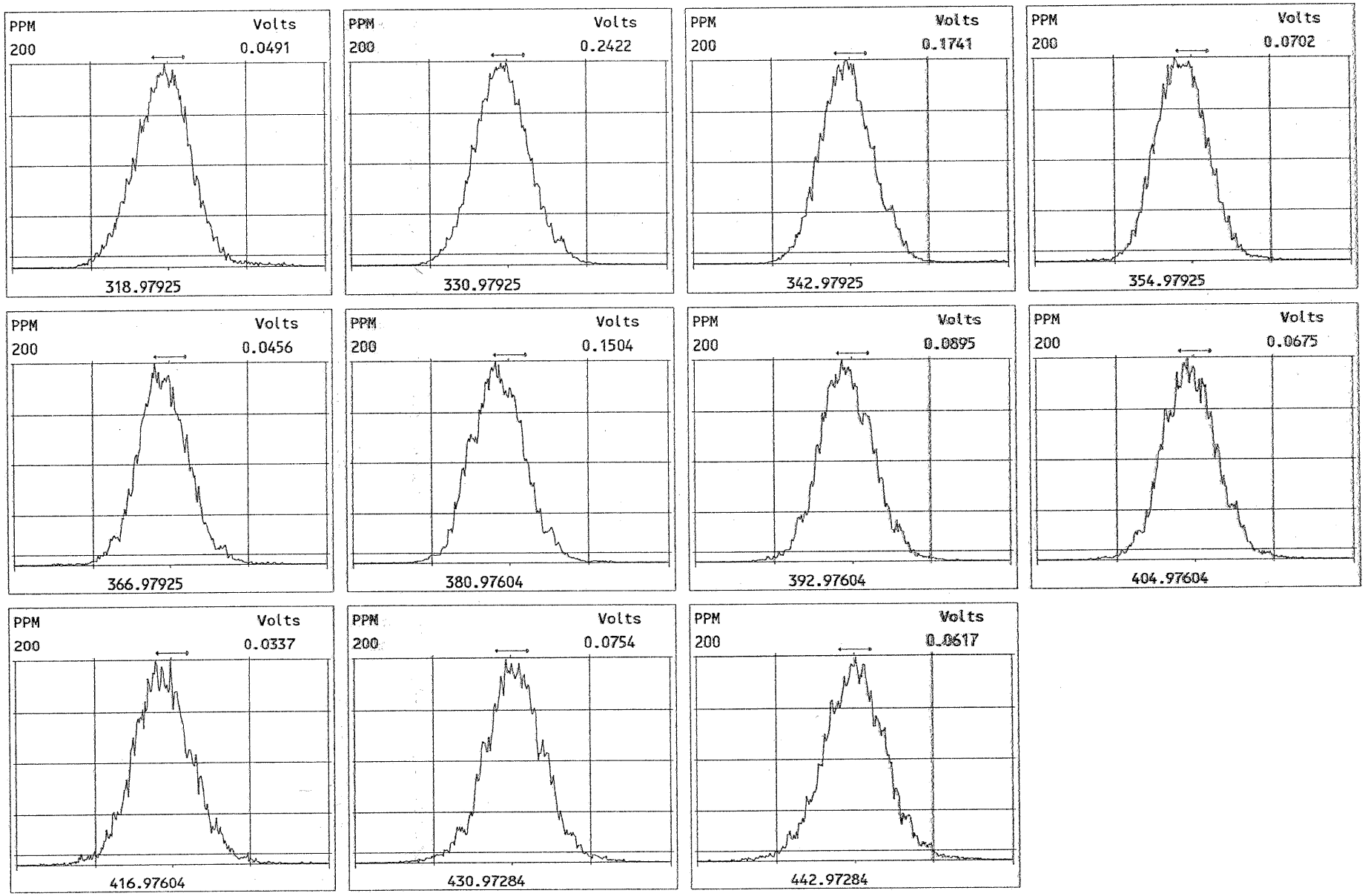


Peak Locate Examination: 2-AUG-2019:07:00 File:02AUG19Z
Experiment:1668PCB Function:4 Reference:PFK

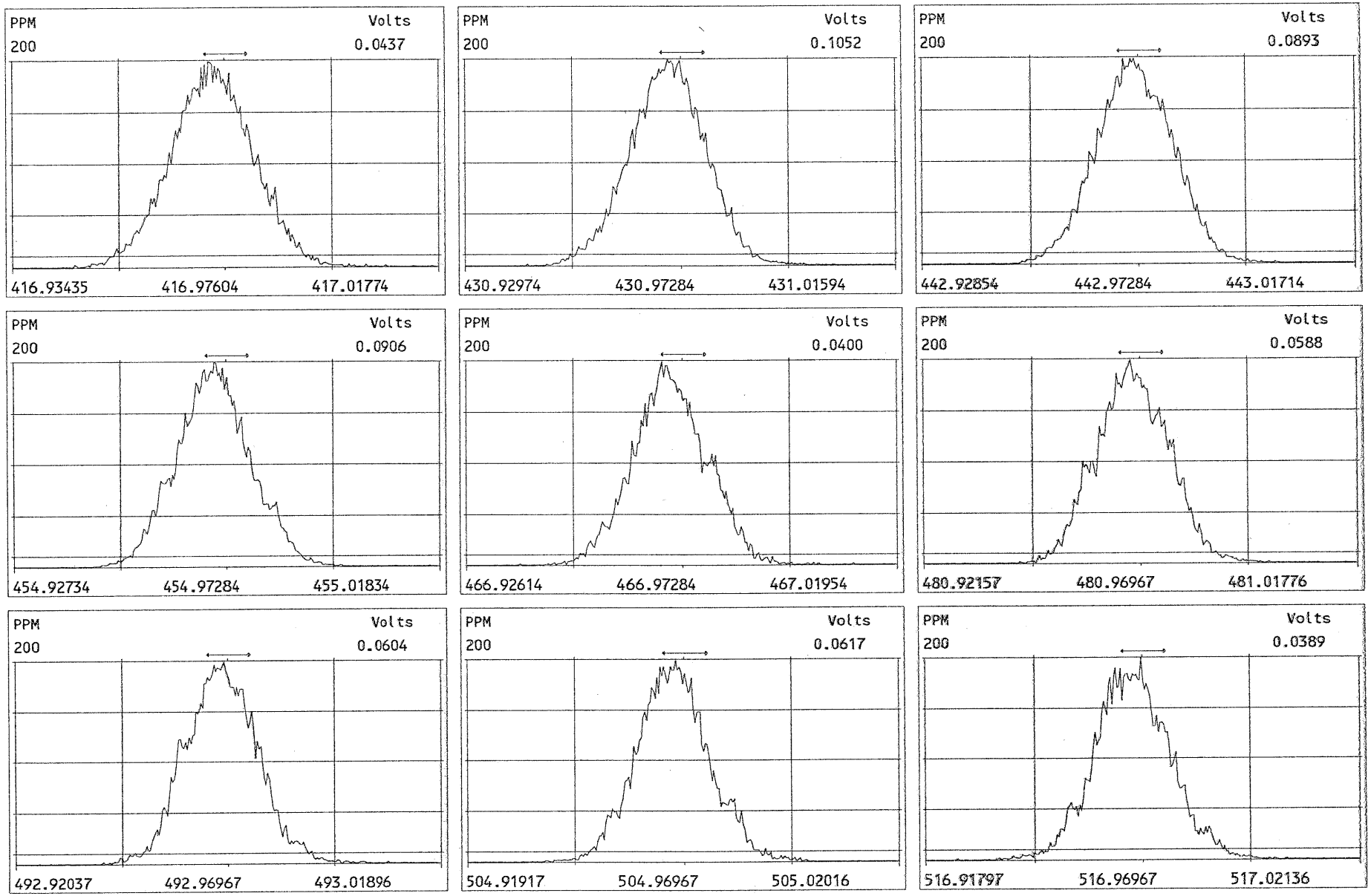


Peak Locate Examination: 2-AUG-2019:07:01 File:02AUG19Z

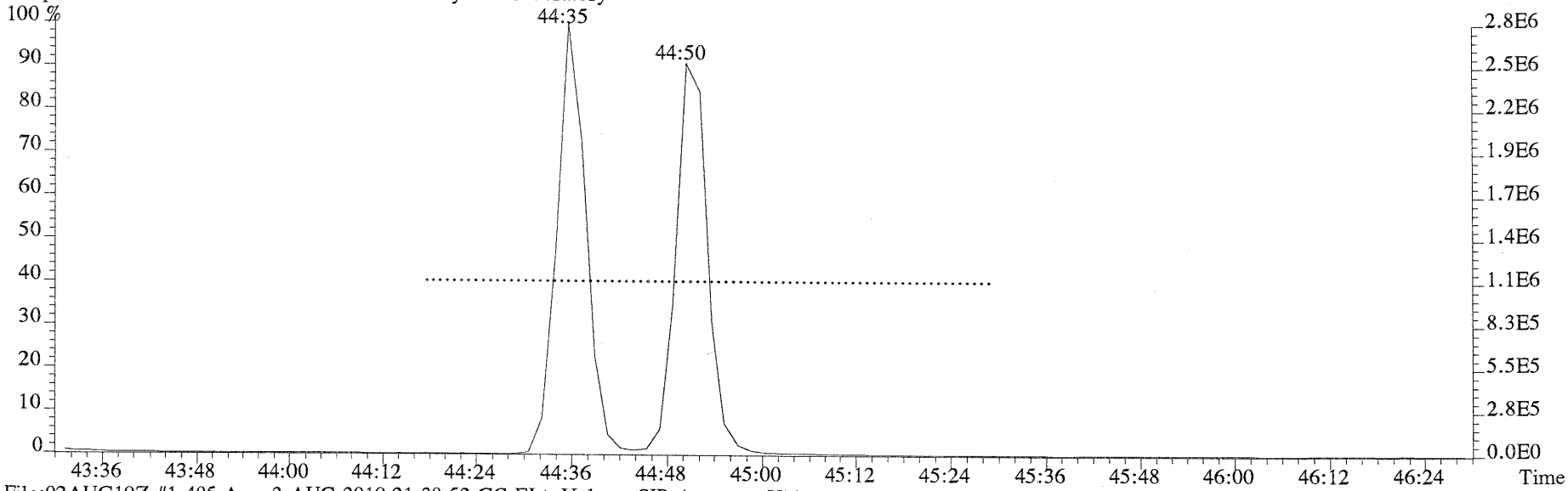
Experiment:1668PCB Function:5 Reference:PFK



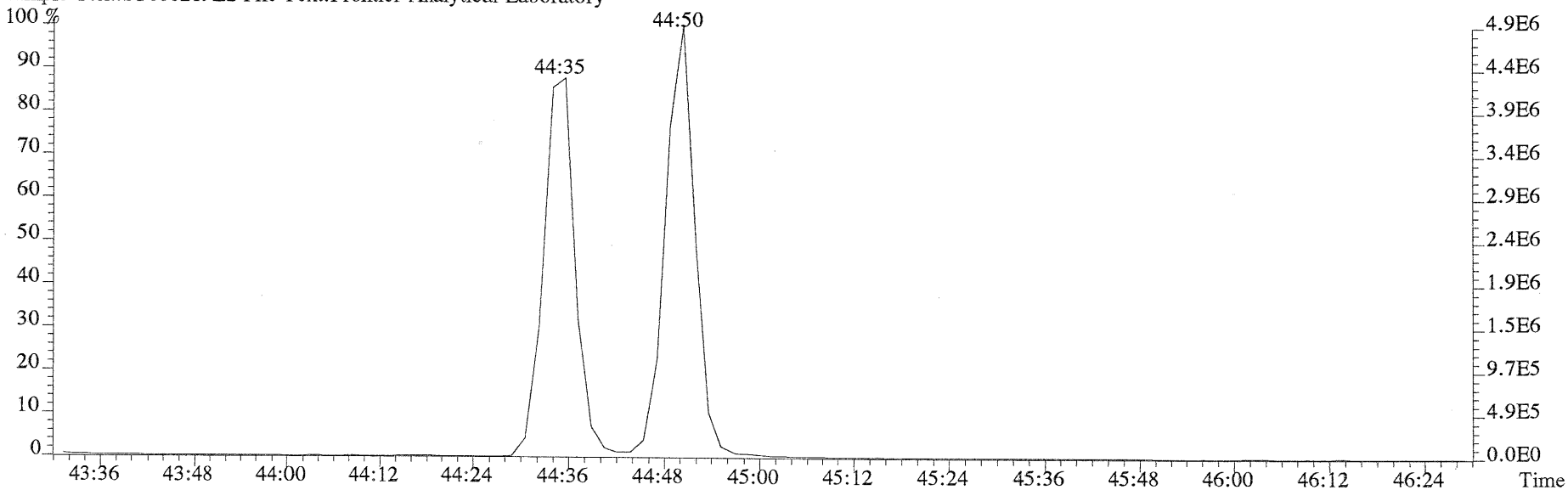
Peak Locate Examination: 2-AUG-2019:07:01 File:02AUG19Z
Experiment:1668PCB Function:6 Reference:PFK



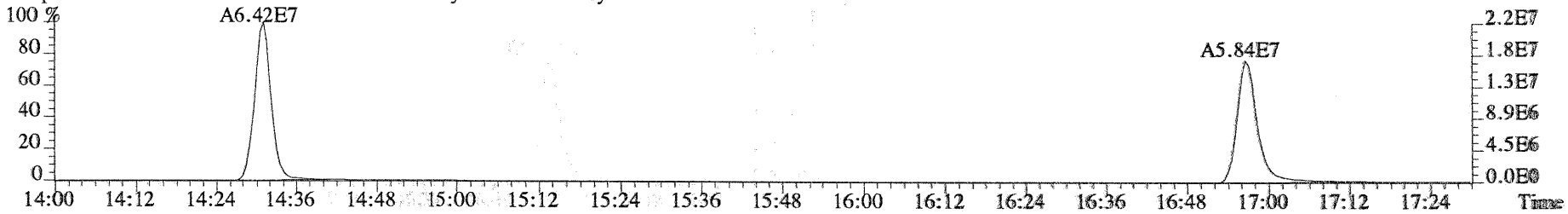
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



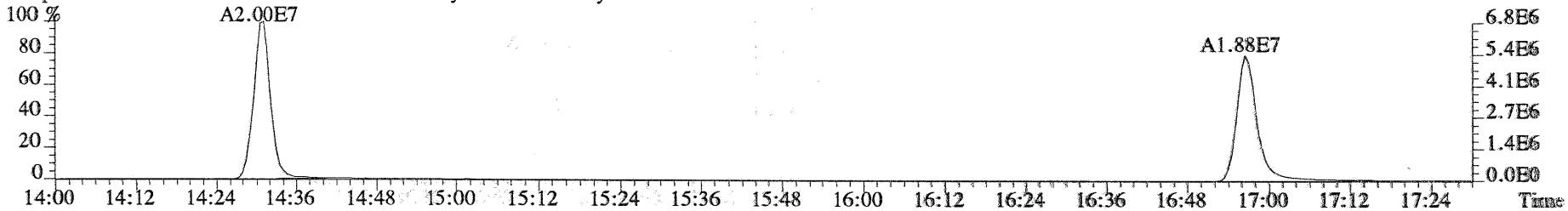
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



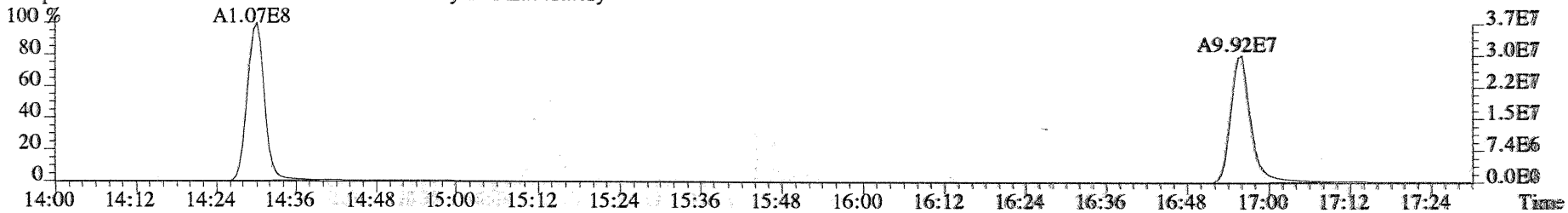
File:02AUG19Z #1-784 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



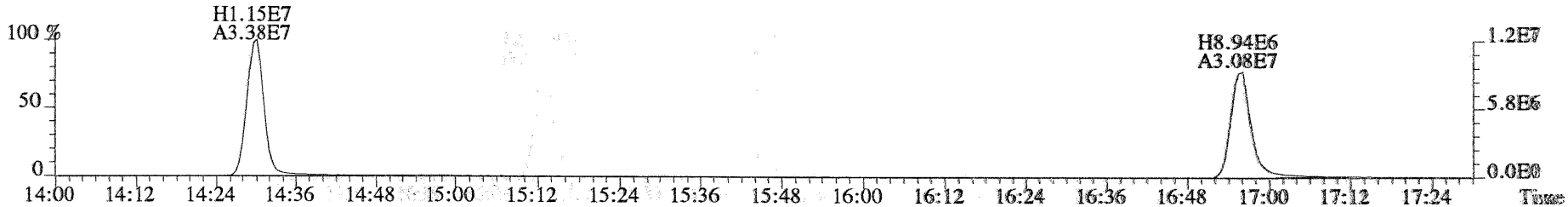
File:02AUG19Z #1-784 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



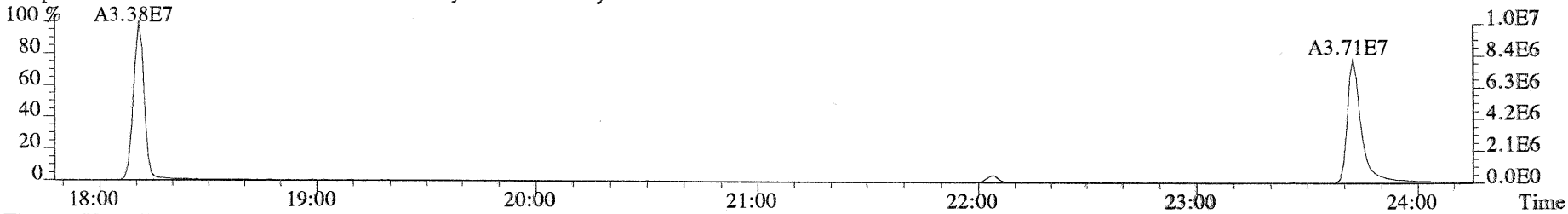
File:02AUG19Z #1-784 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



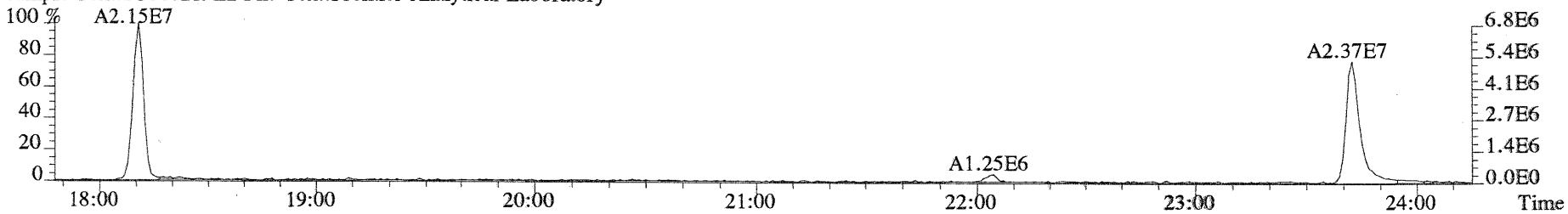
File:02AUG19Z #1-784 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



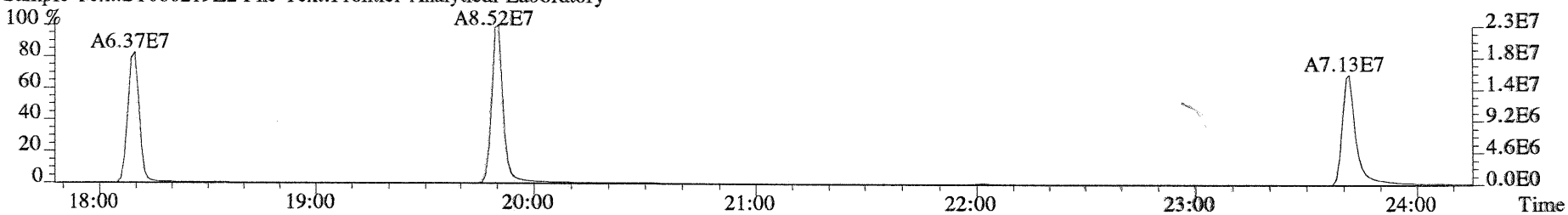
File:02AUG19Z #1-520 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



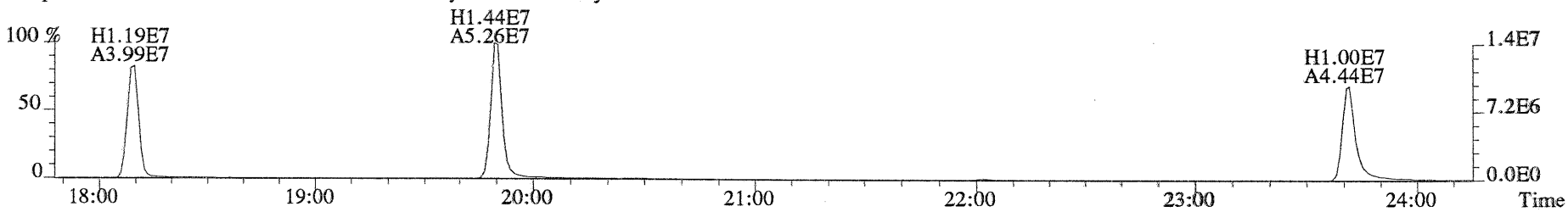
File:02AUG19Z #1-520 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



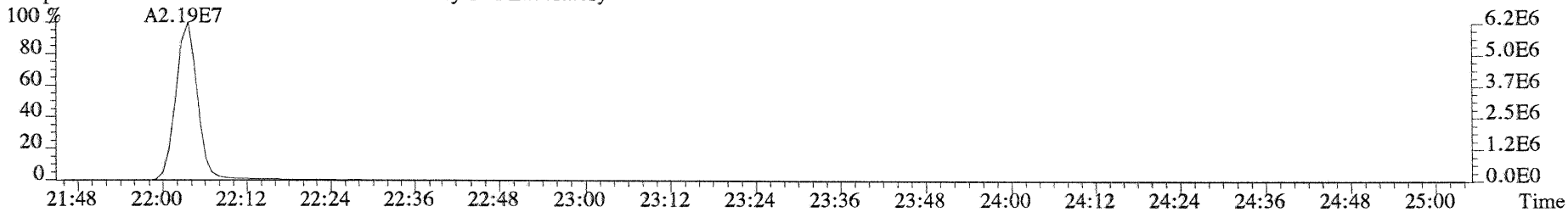
File:02AUG19Z #1-520 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



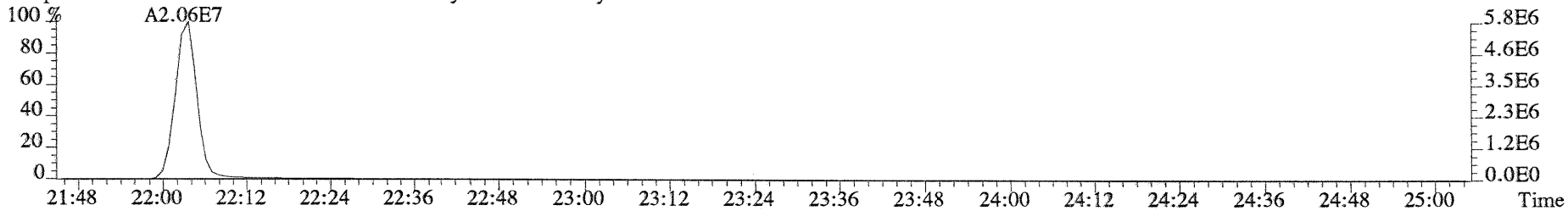
File:02AUG19Z #1-520 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



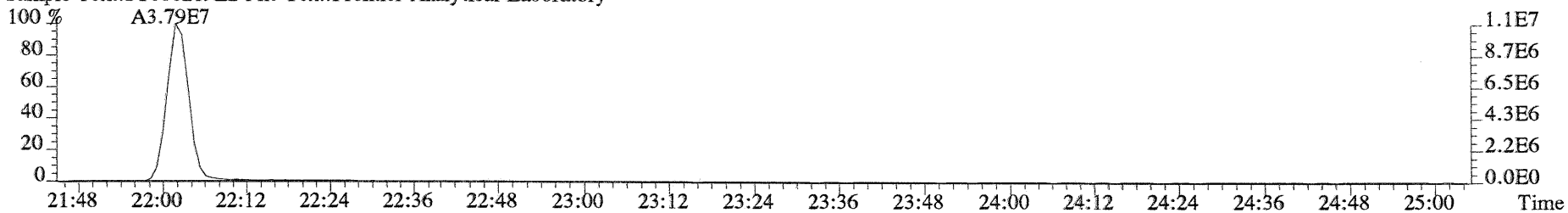
File:02AUG19Z #1-520 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



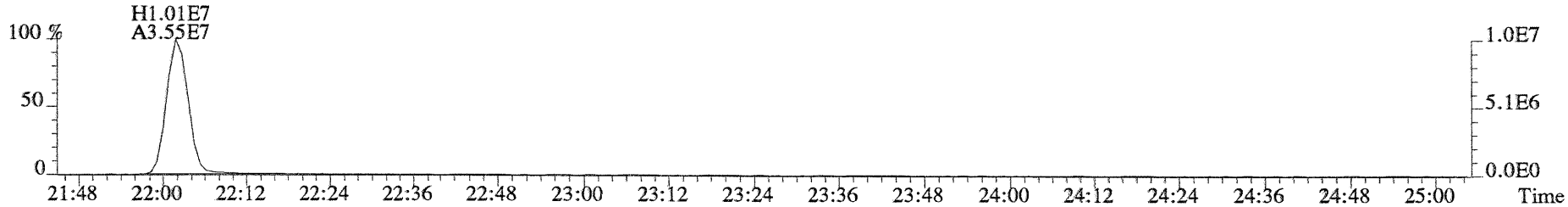
File:02AUG19Z #1-520 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



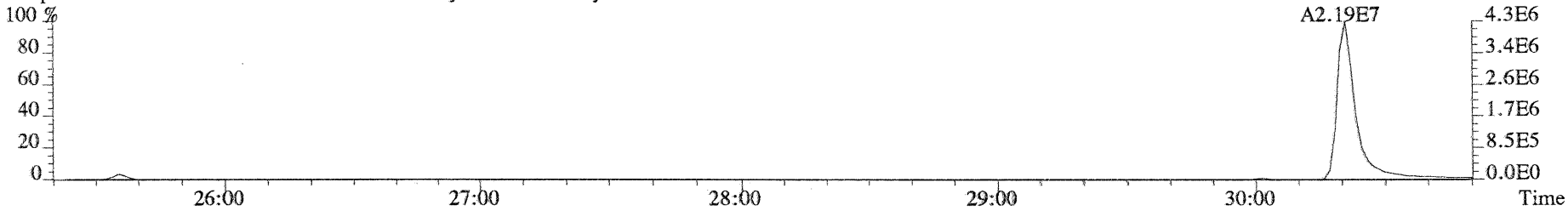
File:02AUG19Z #1-520 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



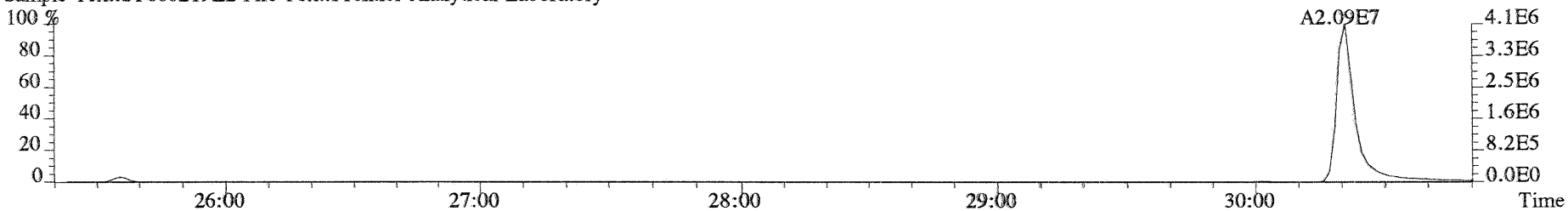
File:02AUG19Z #1-520 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



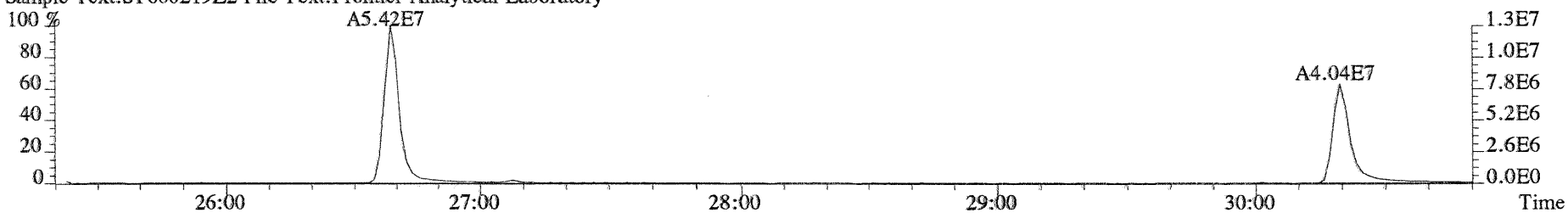
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



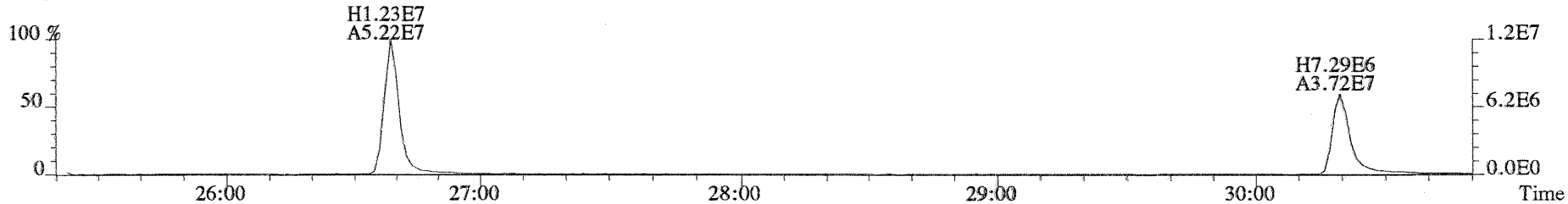
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



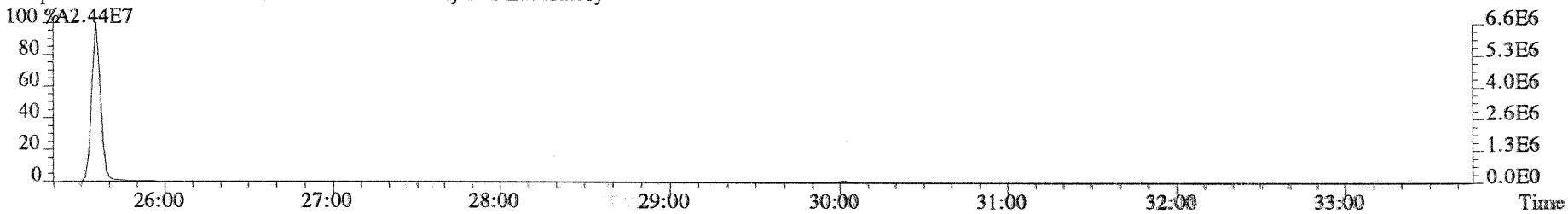
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



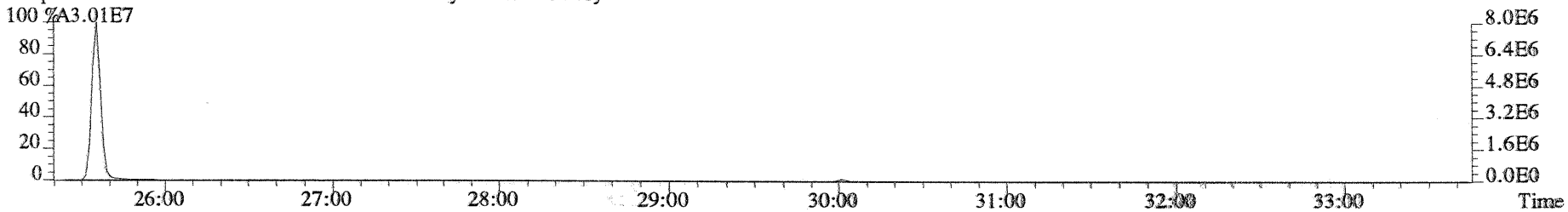
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



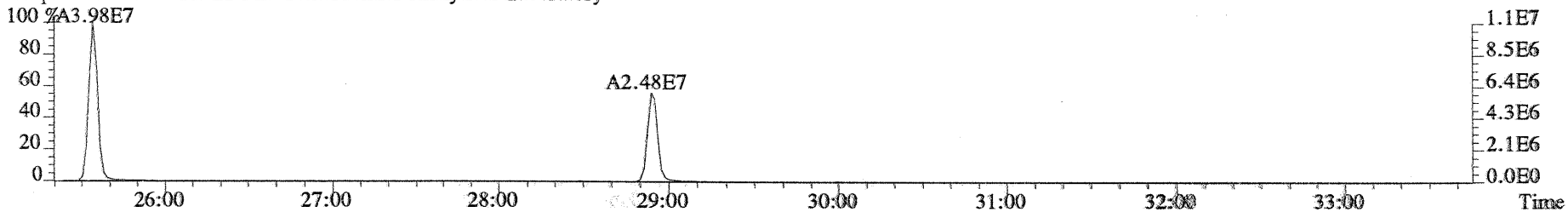
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



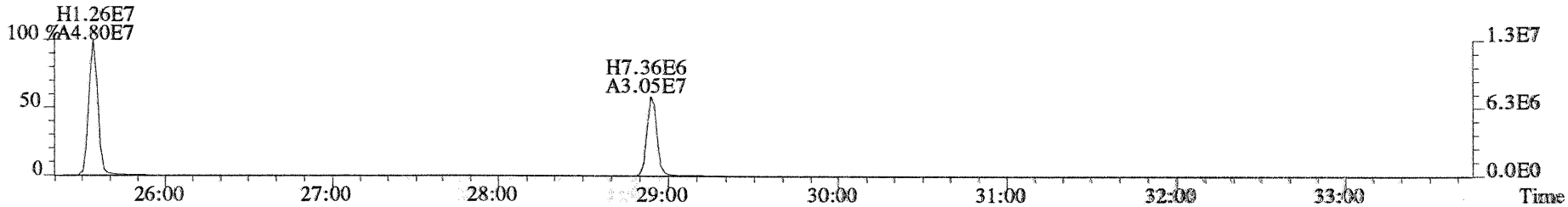
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



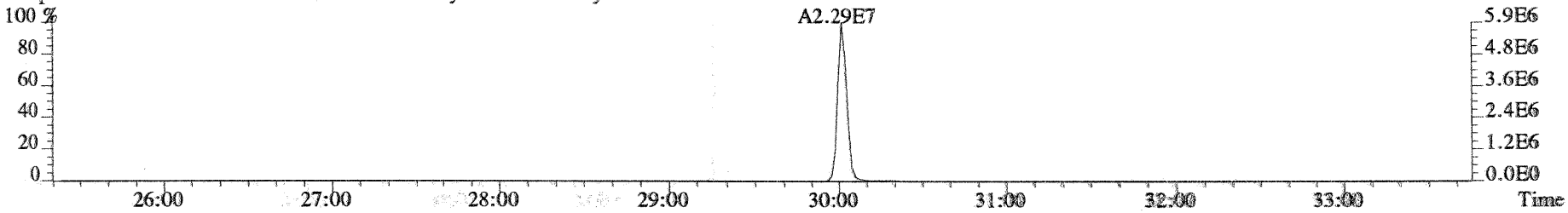
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



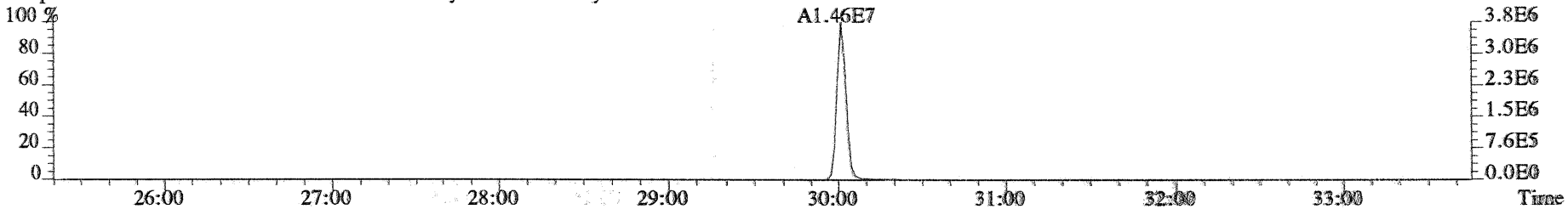
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



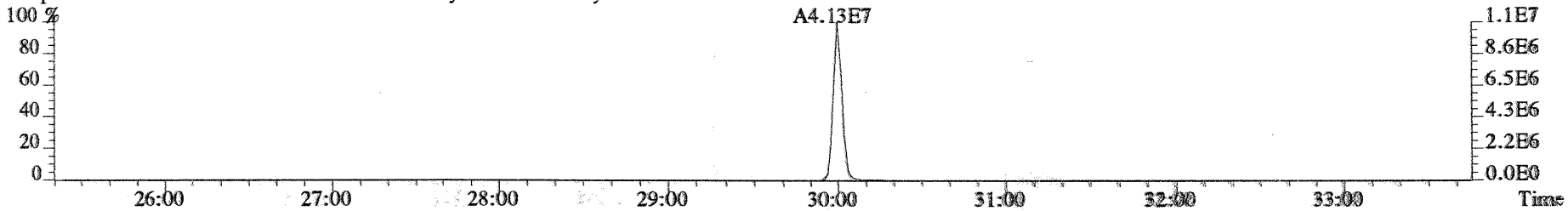
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



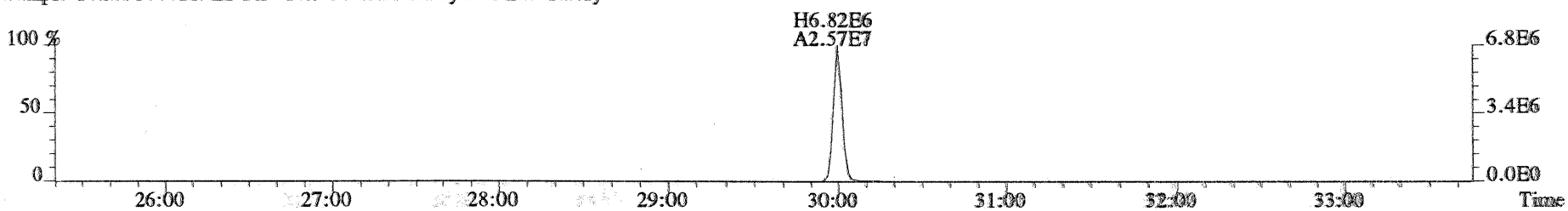
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



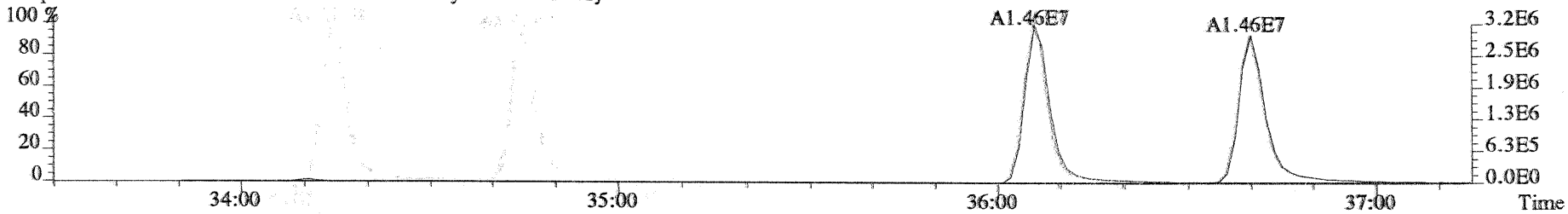
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



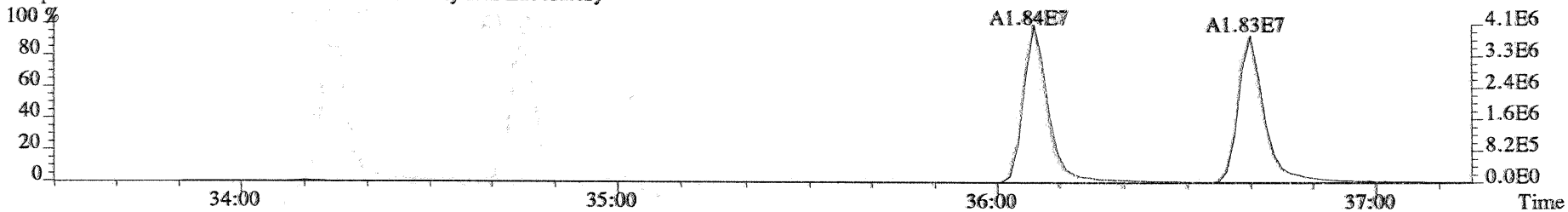
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



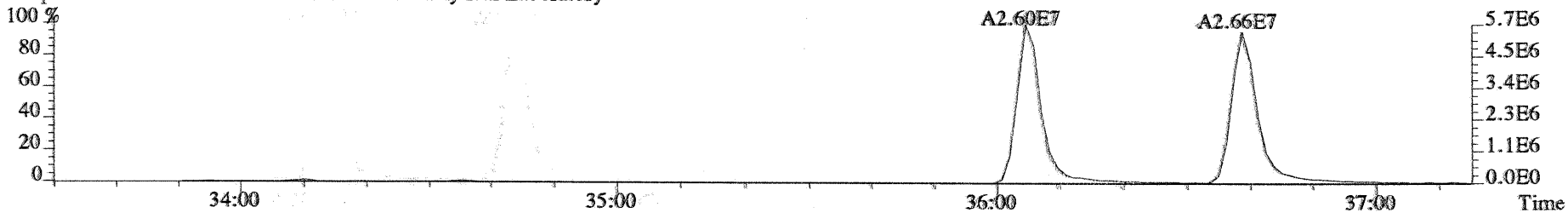
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



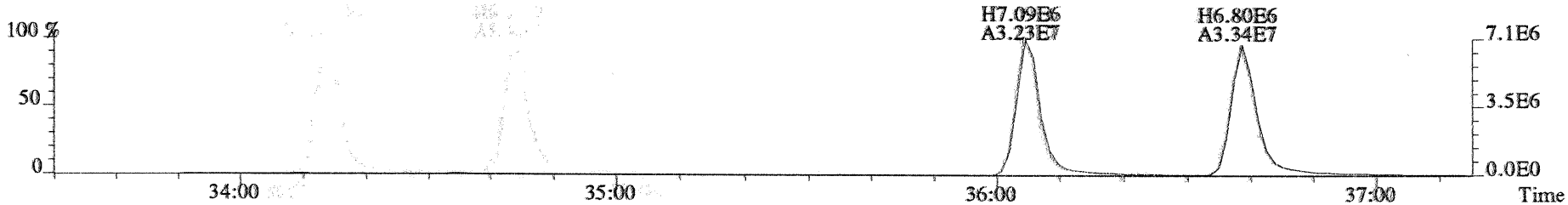
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



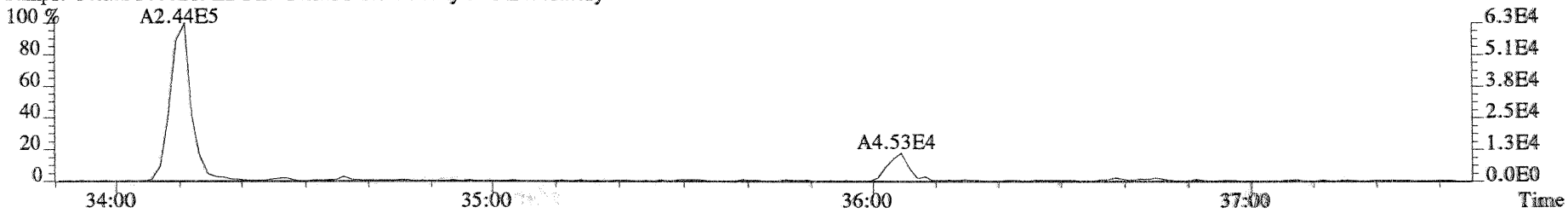
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



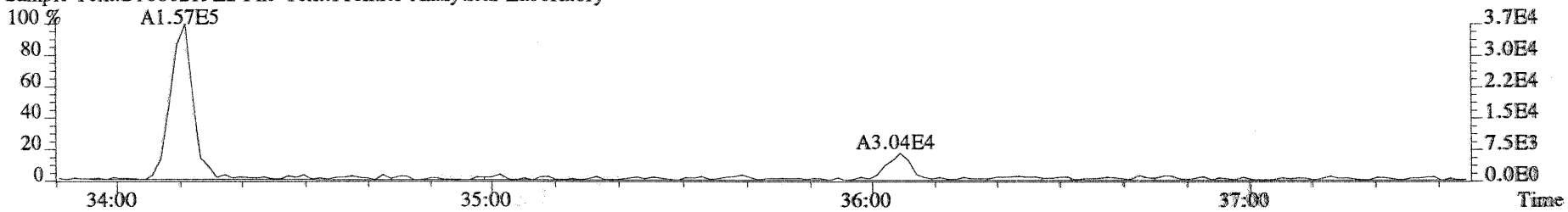
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



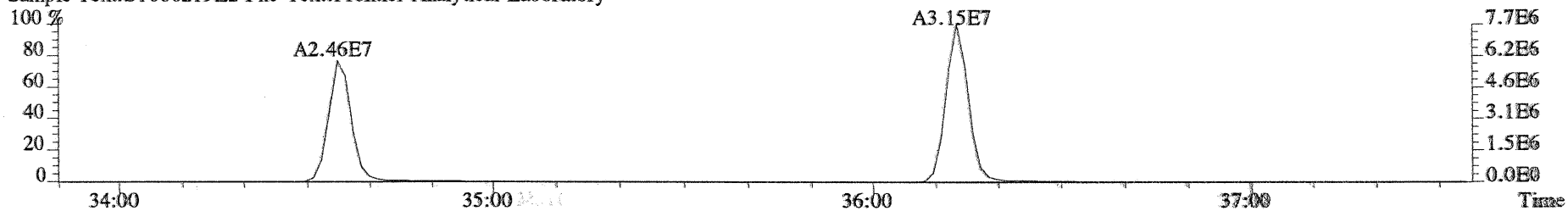
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



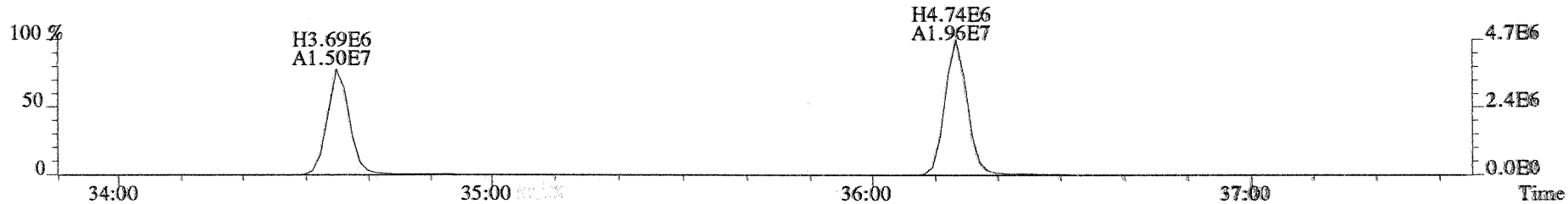
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



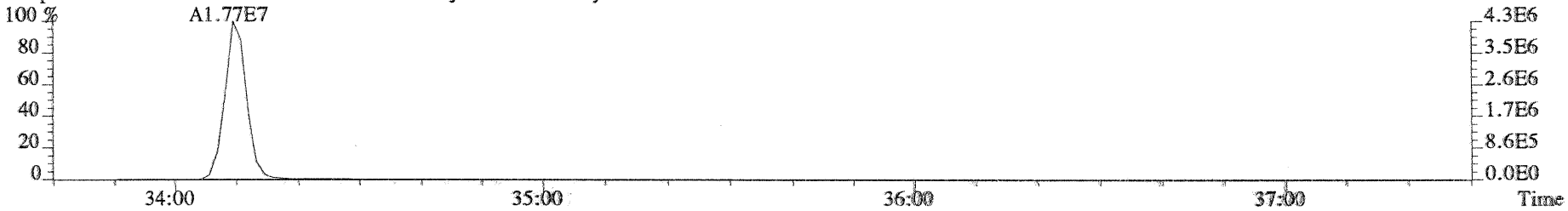
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



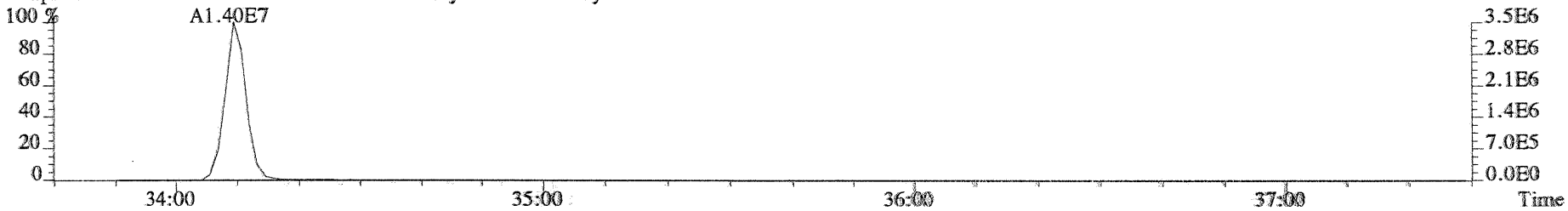
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



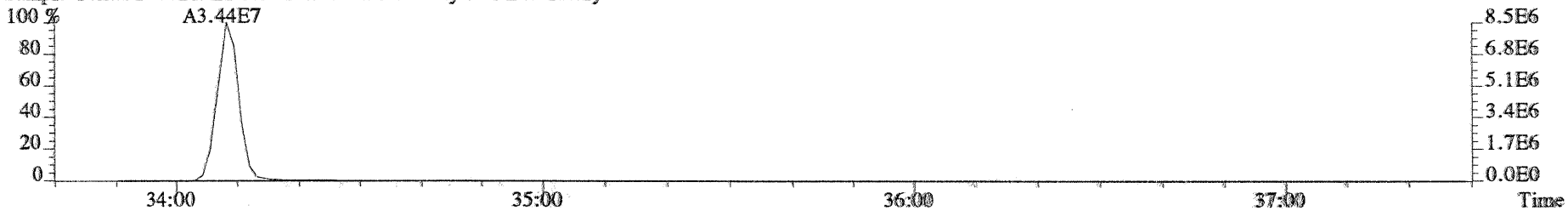
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



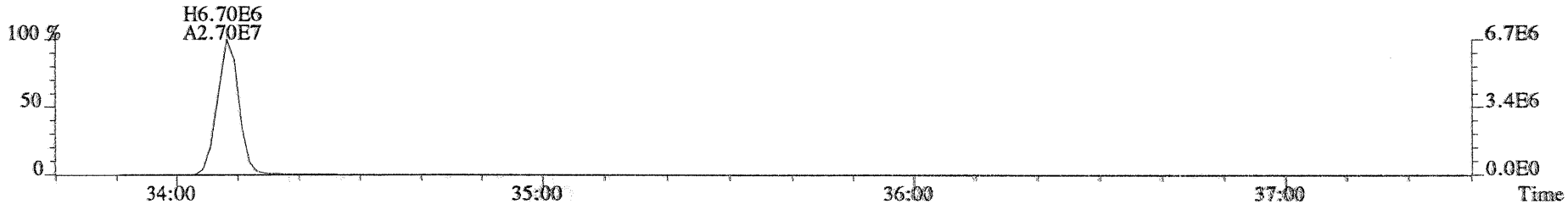
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



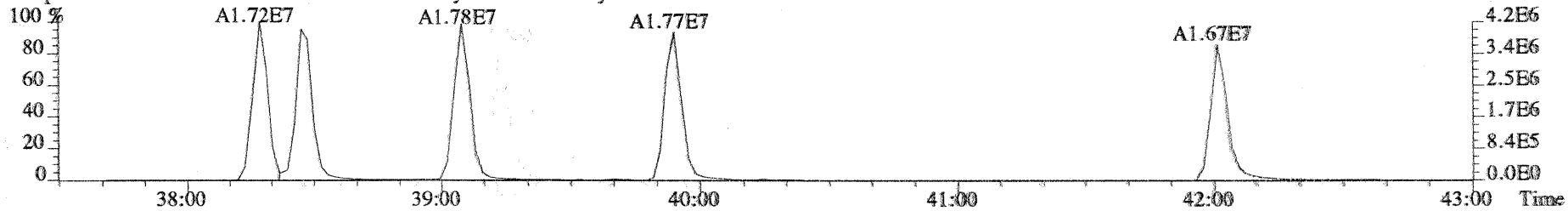
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



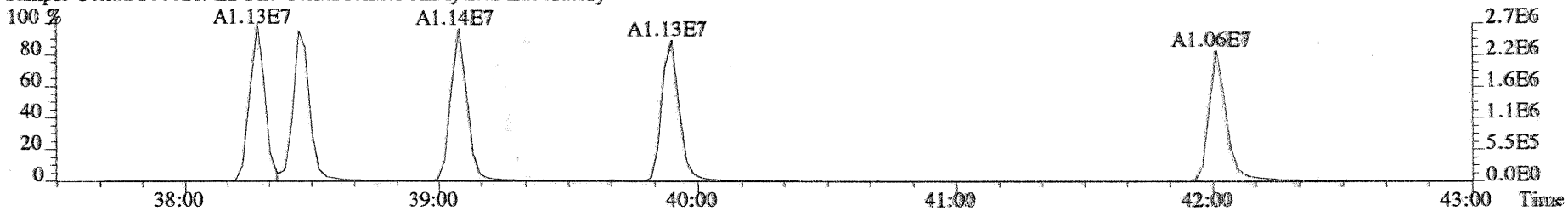
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



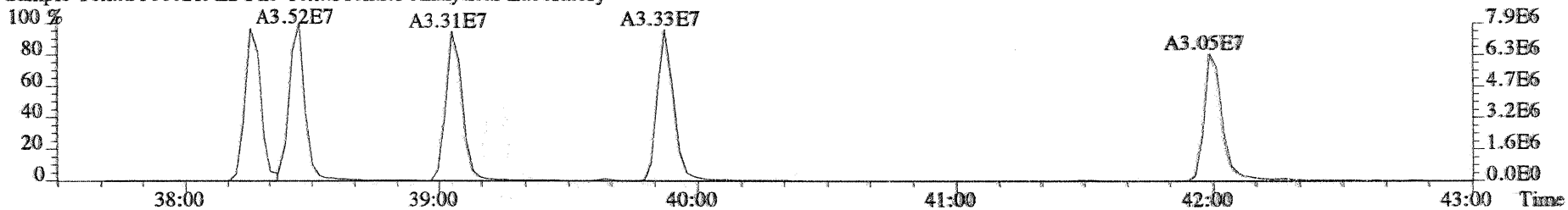
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



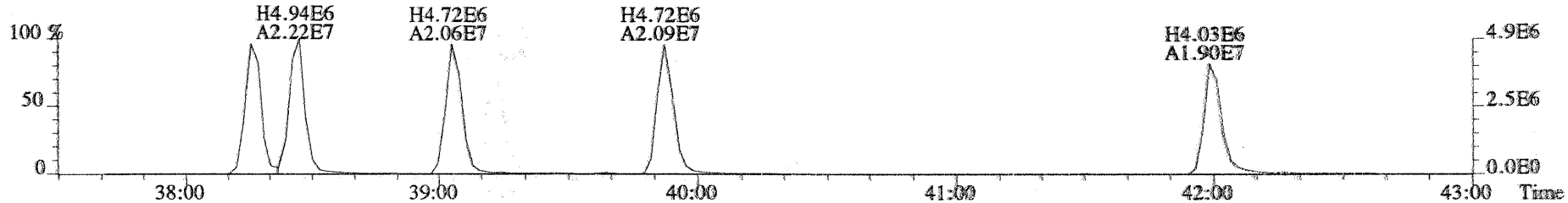
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



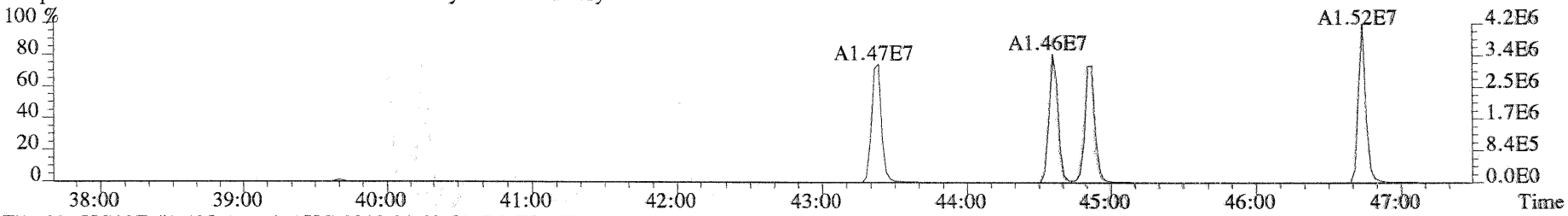
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



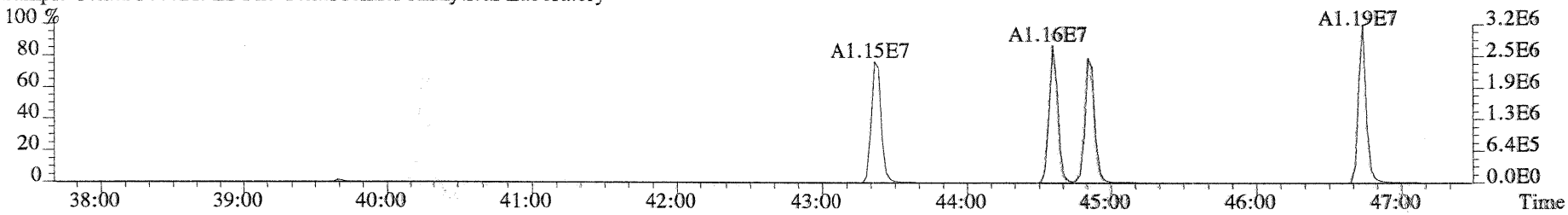
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



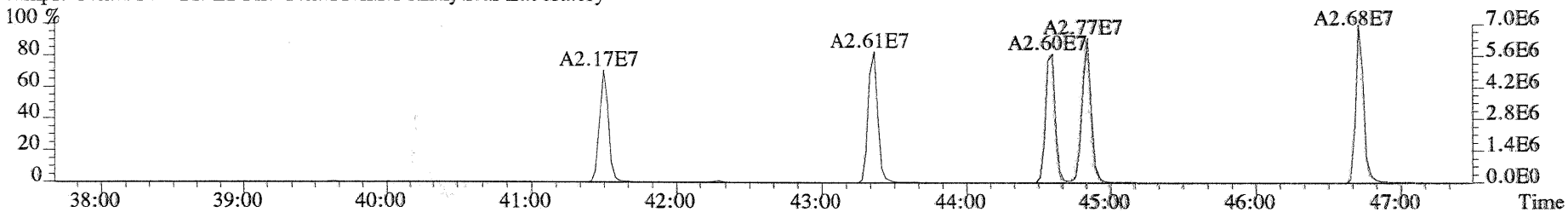
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



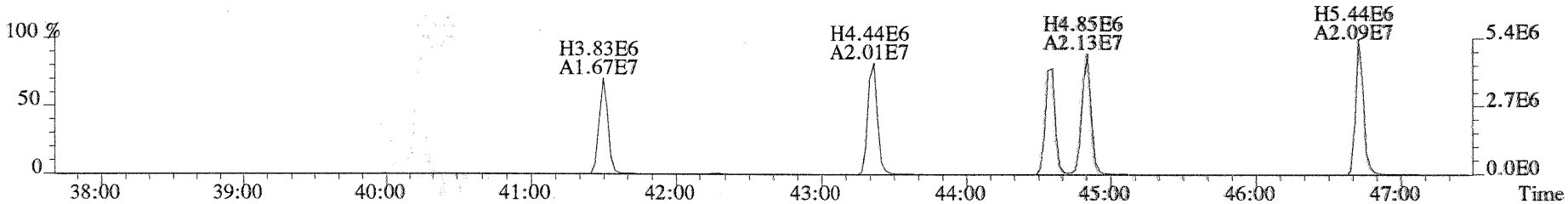
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



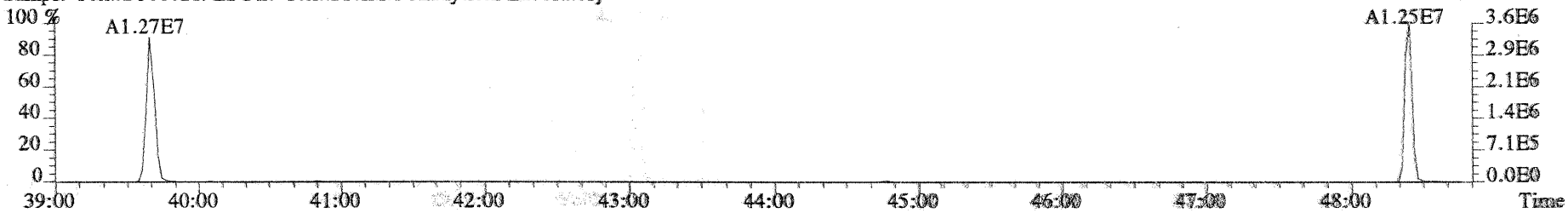
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



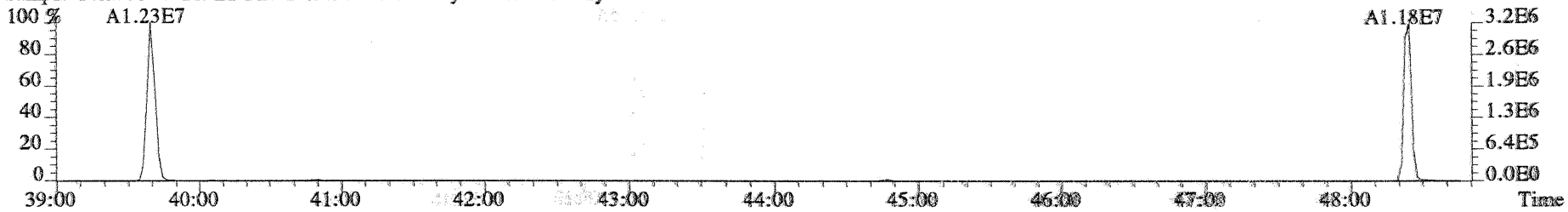
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



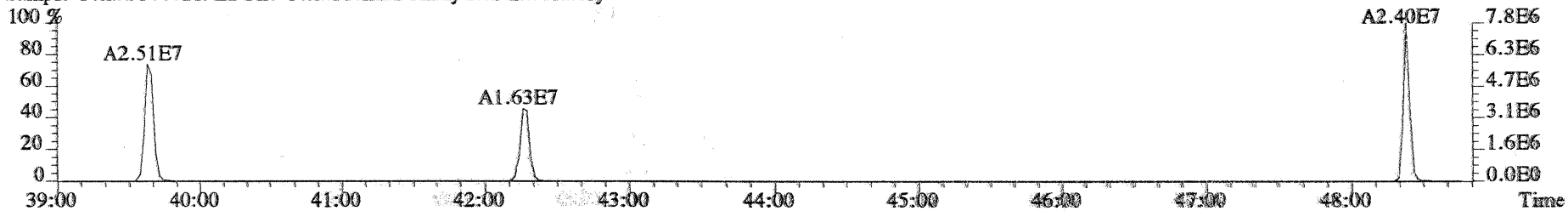
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



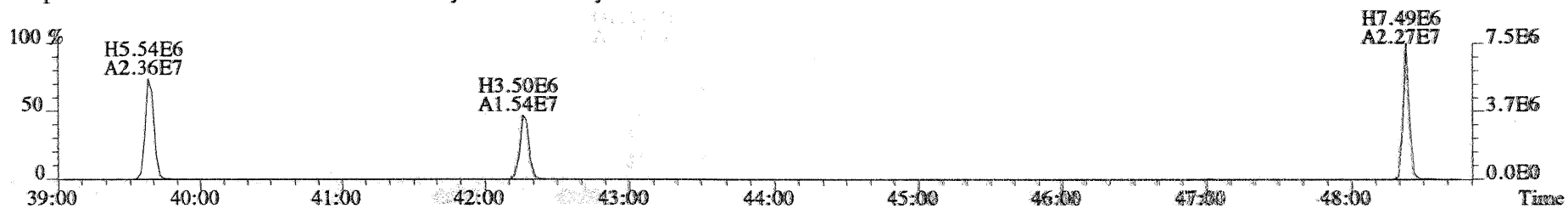
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



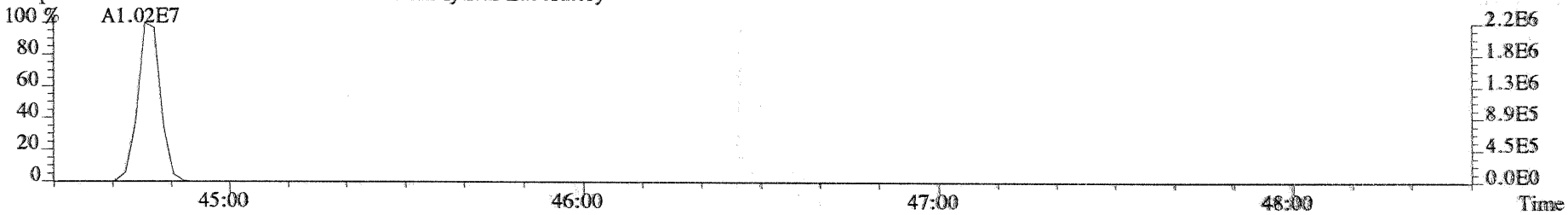
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



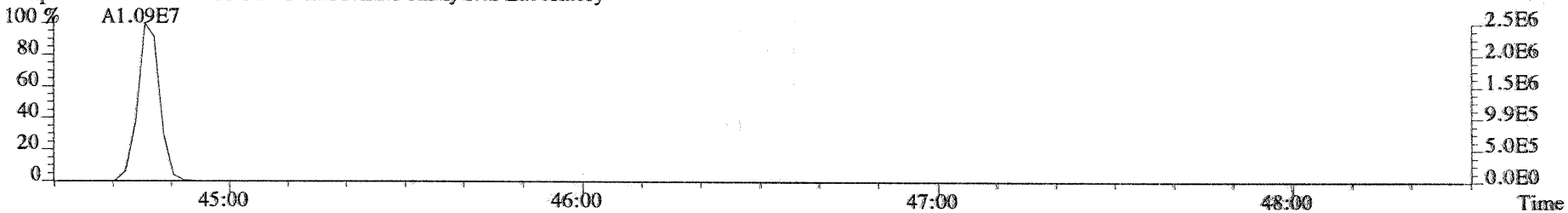
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



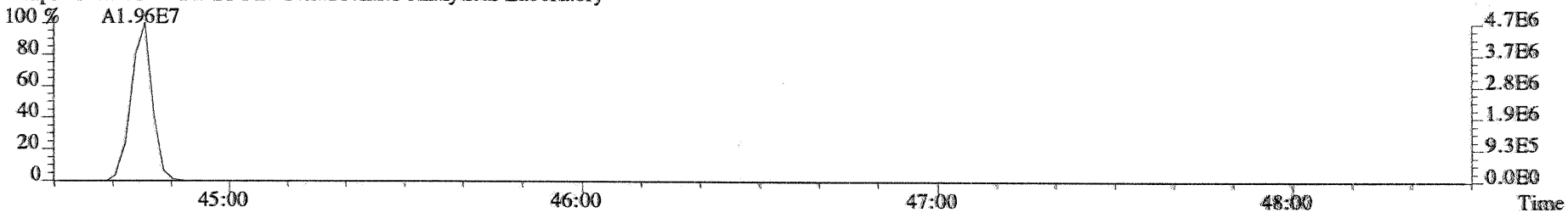
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



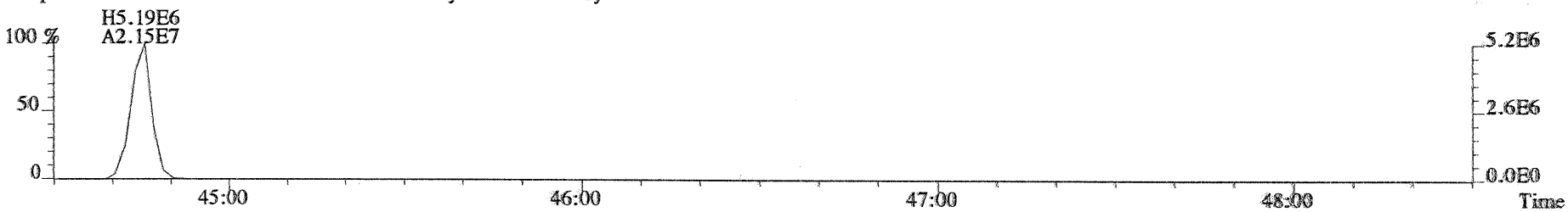
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



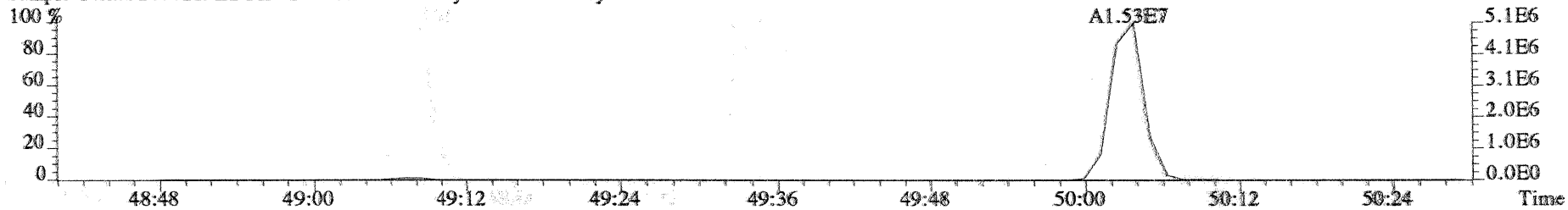
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



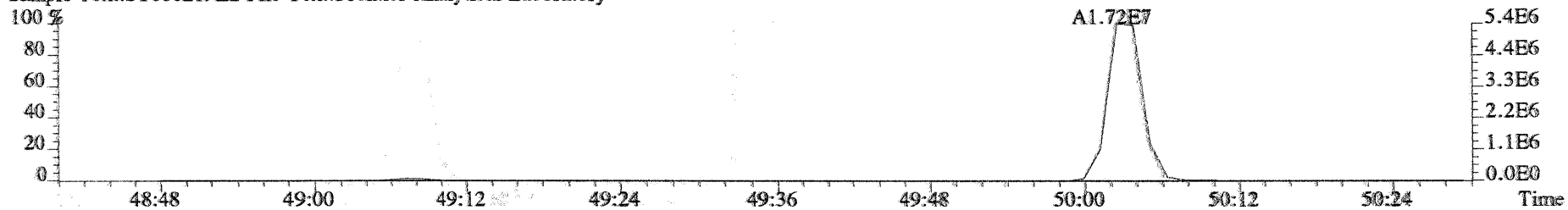
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



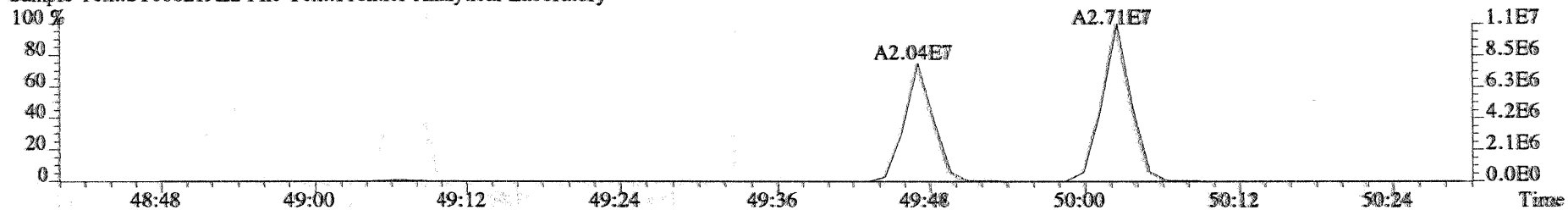
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



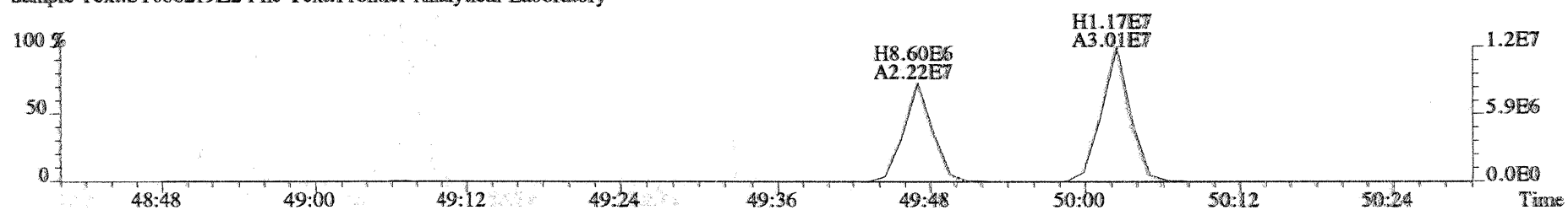
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



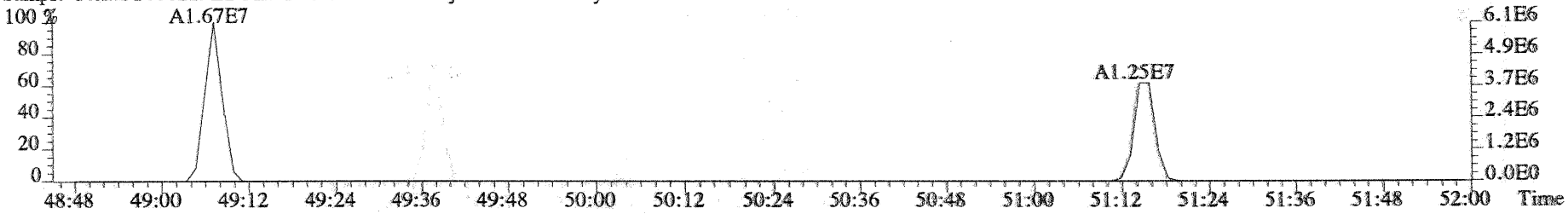
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



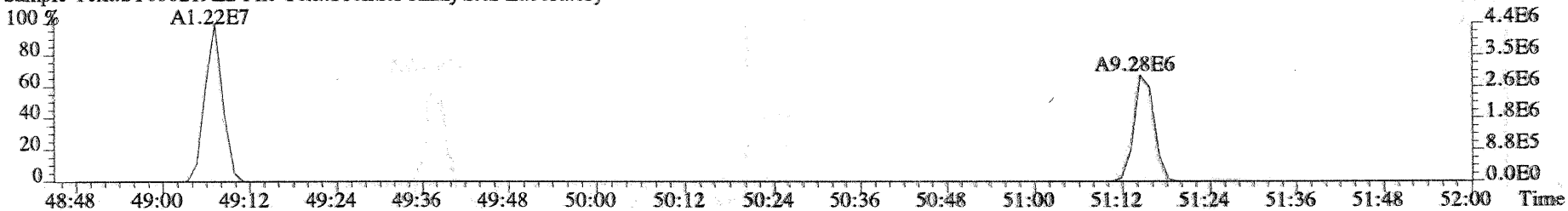
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



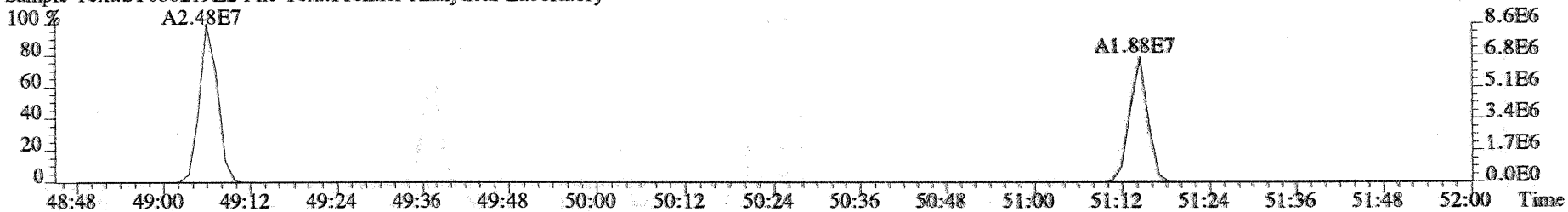
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



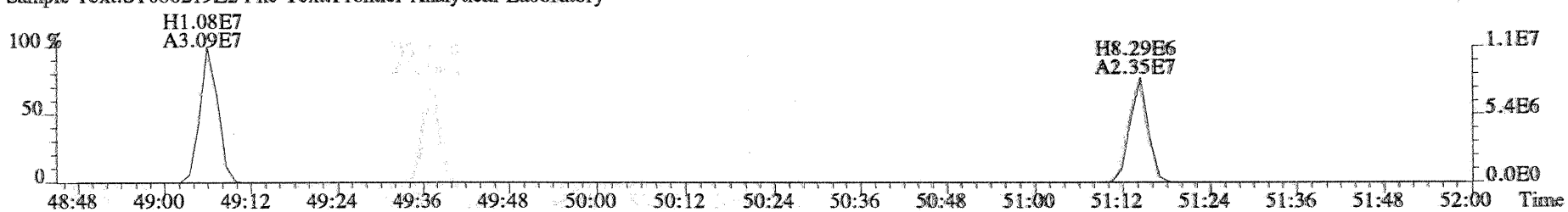
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



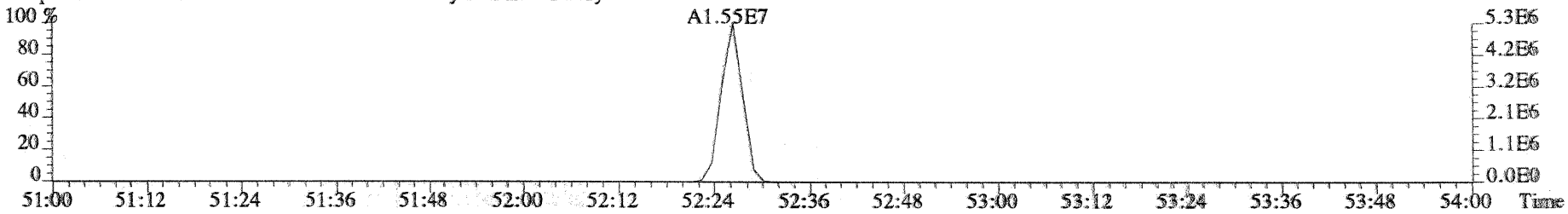
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



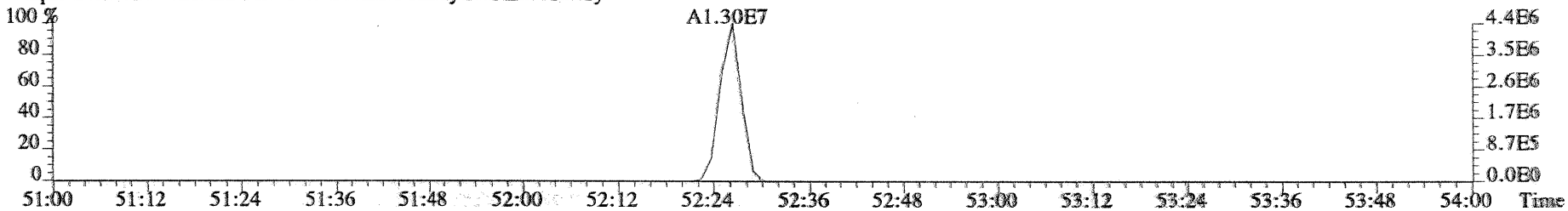
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



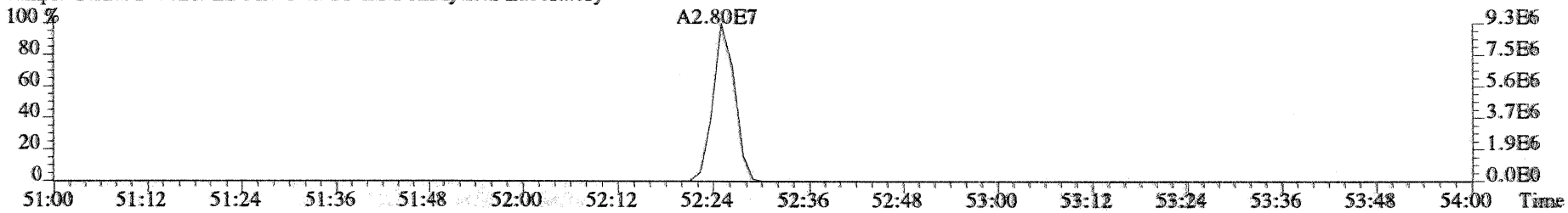
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



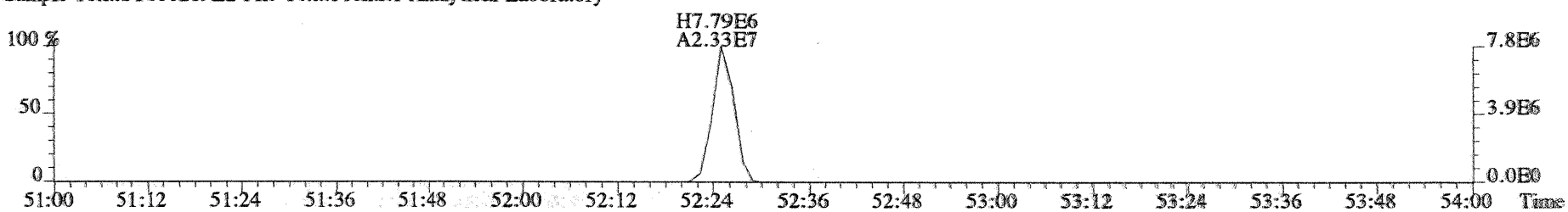
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



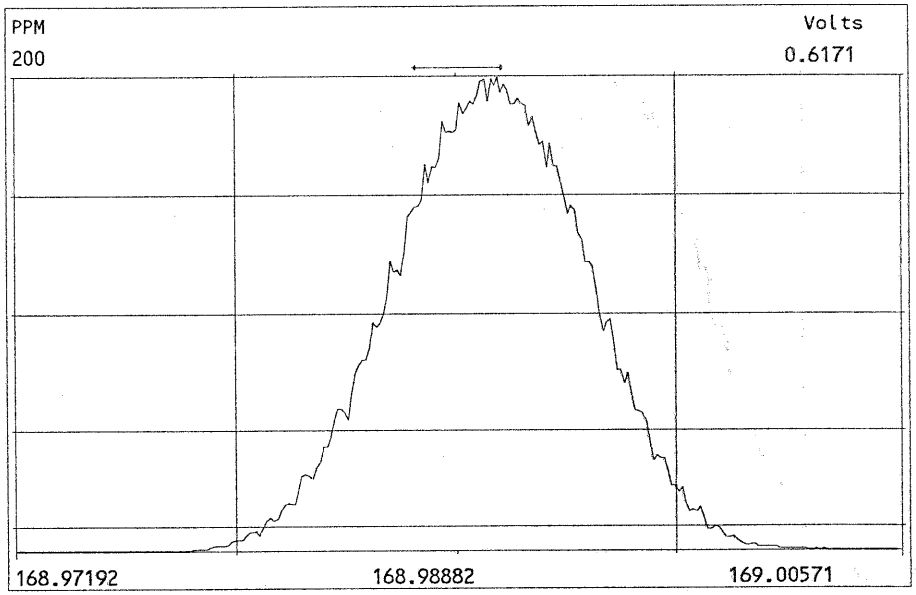
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory

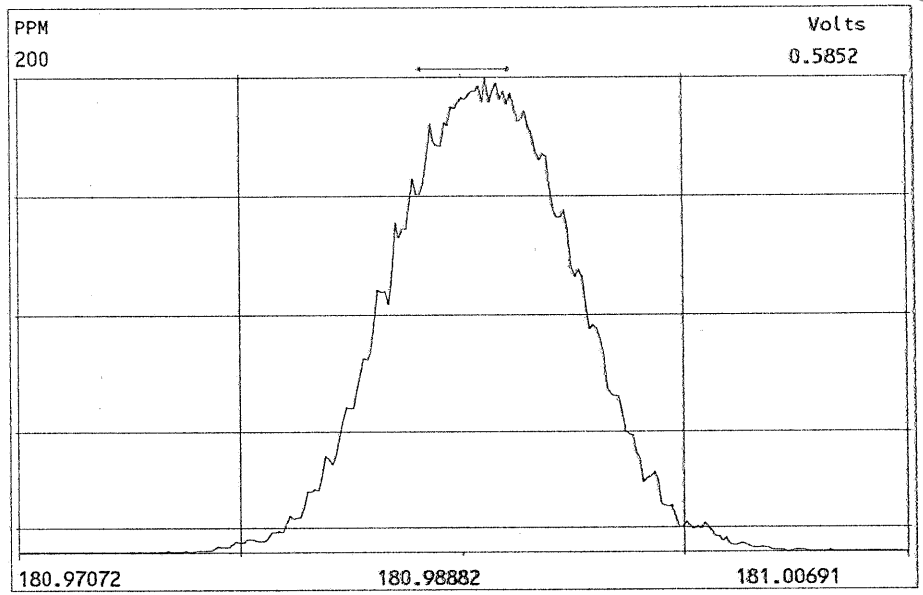


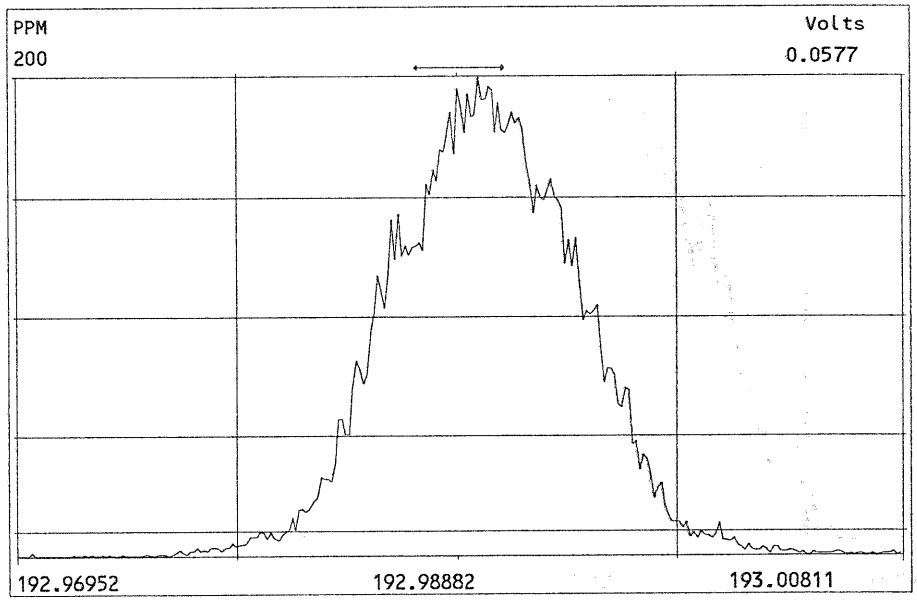
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory

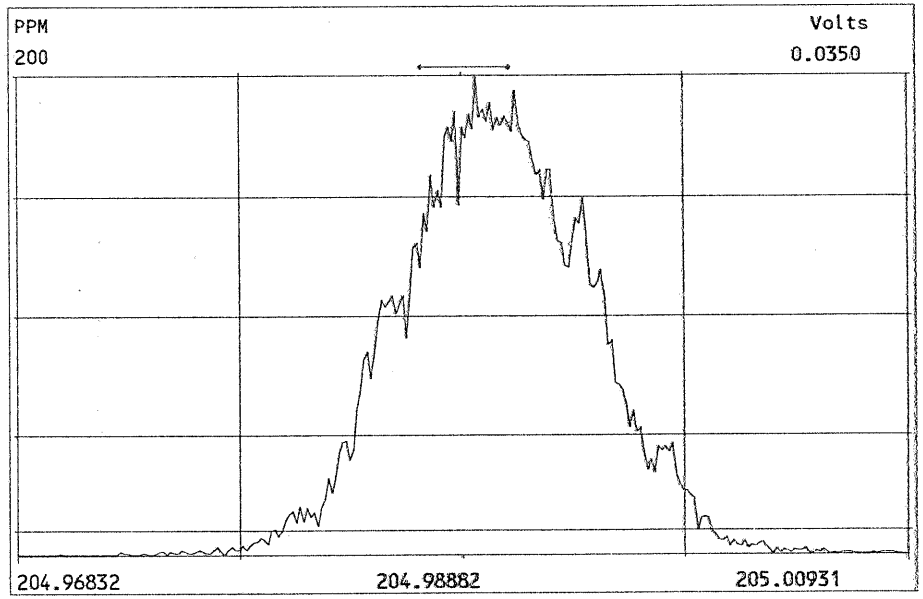


Peak Locate Examination: 2-AUG-2019:23:06 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

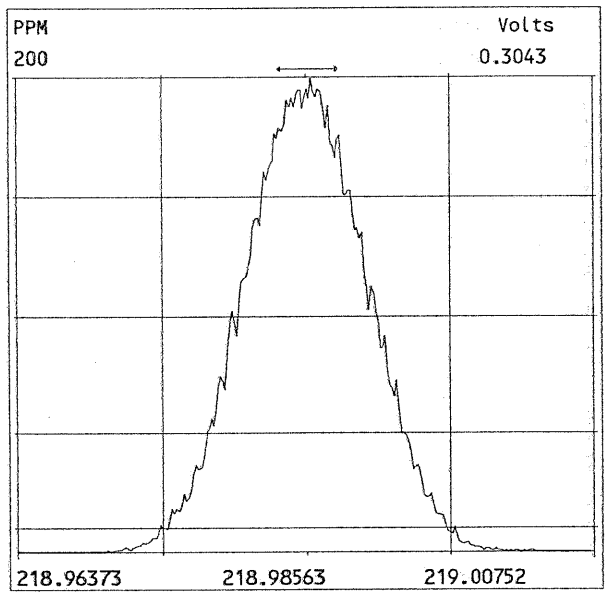


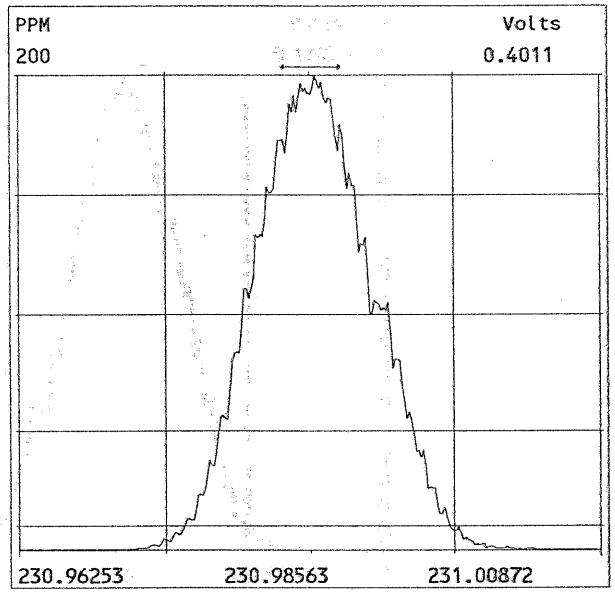


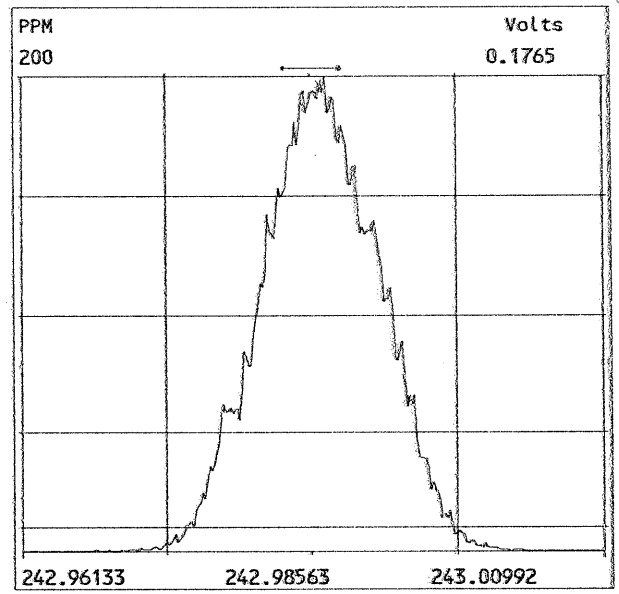


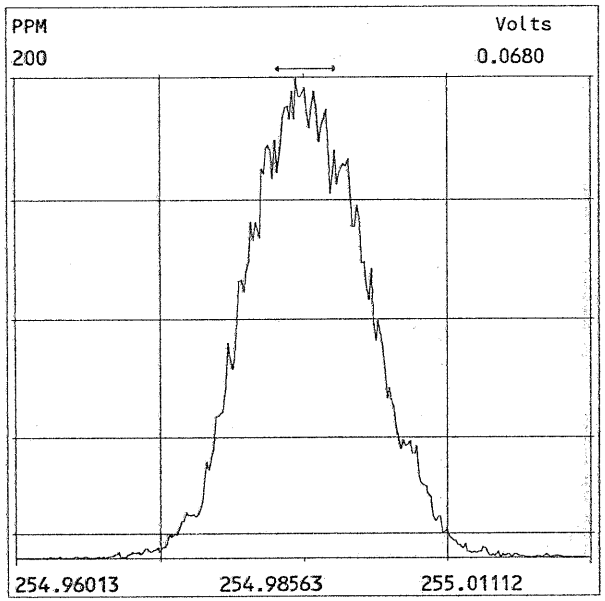


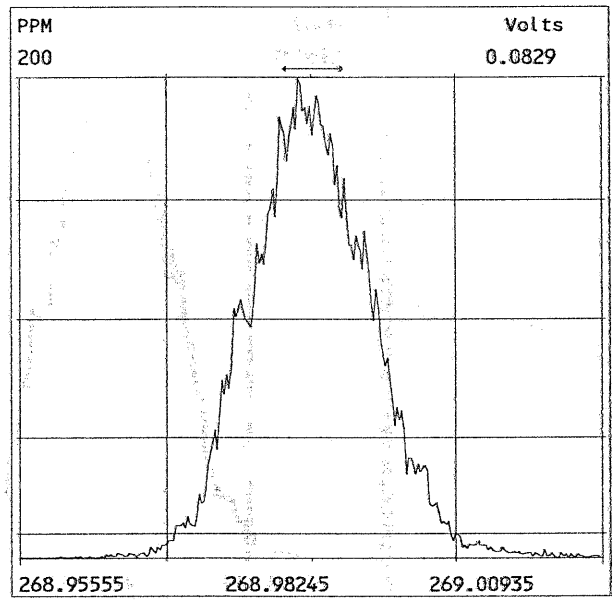
Peak Locate Examination: 2-AUG-2019:23:08 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

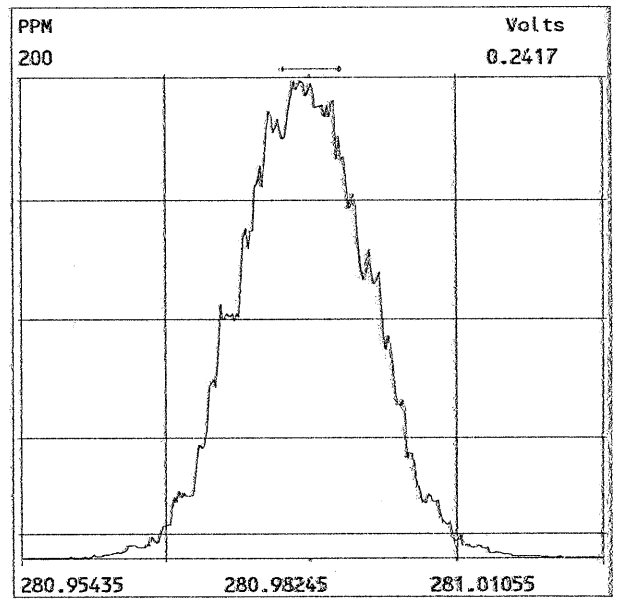




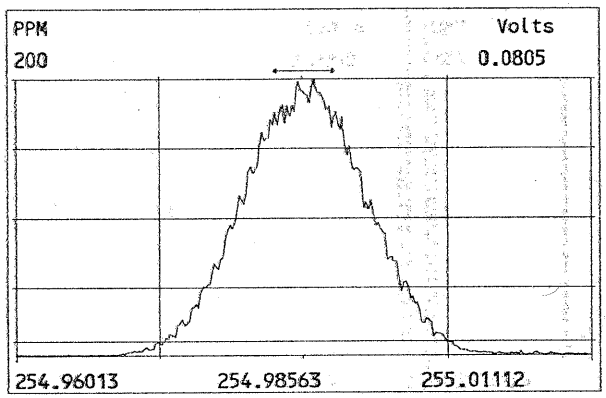


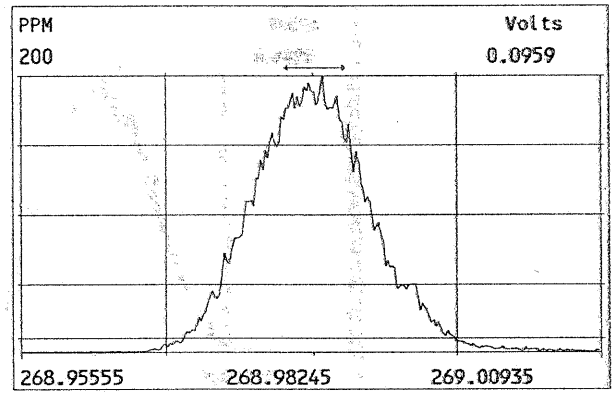


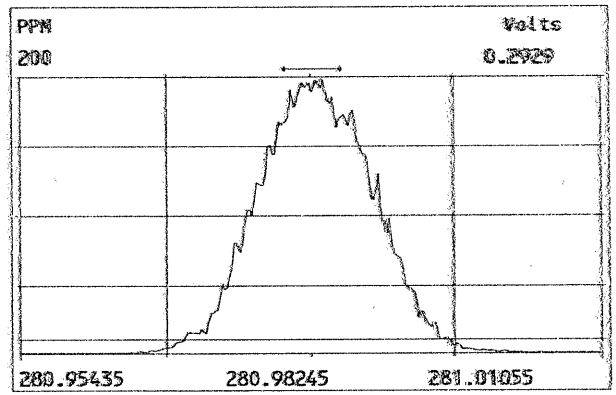


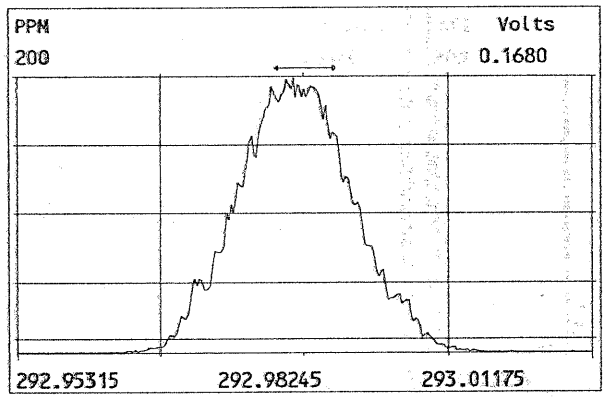


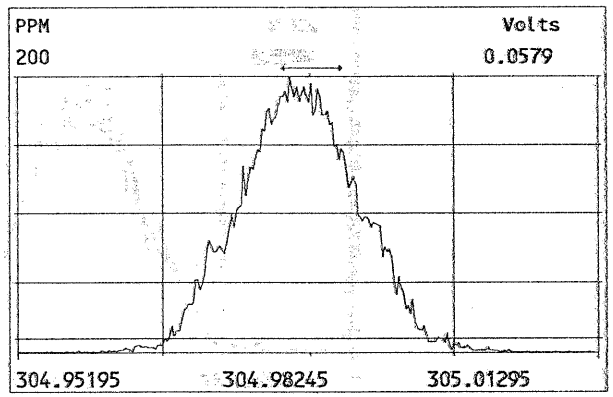
Peak Locate Examination: 2-AUG-2019:23:10 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

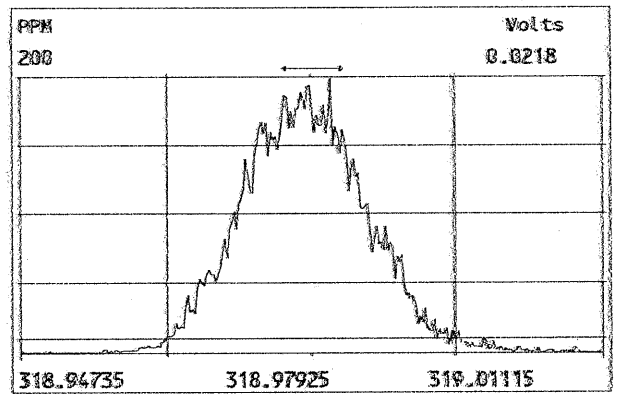


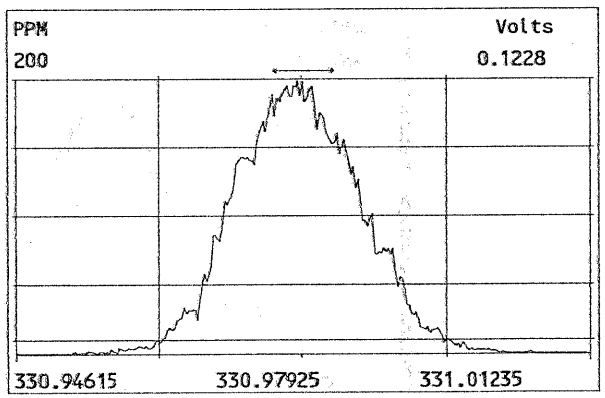


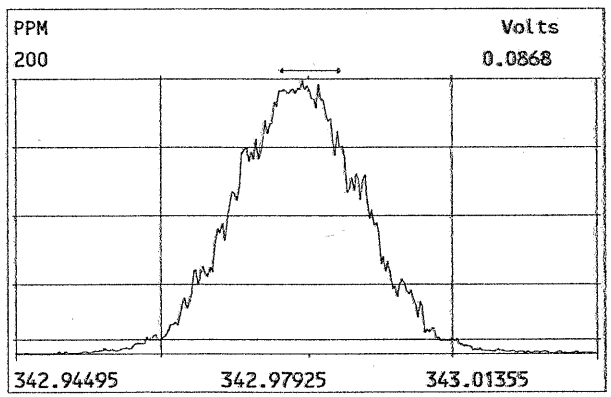




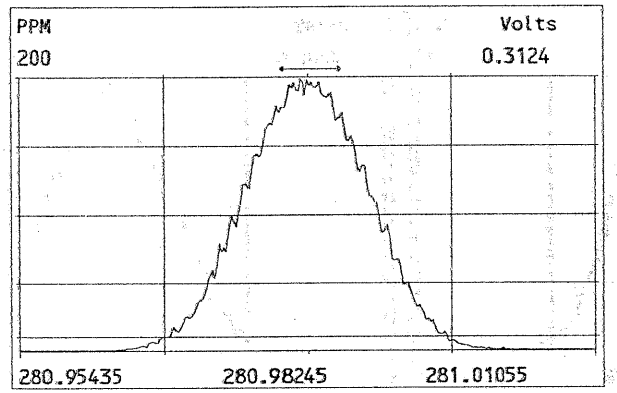


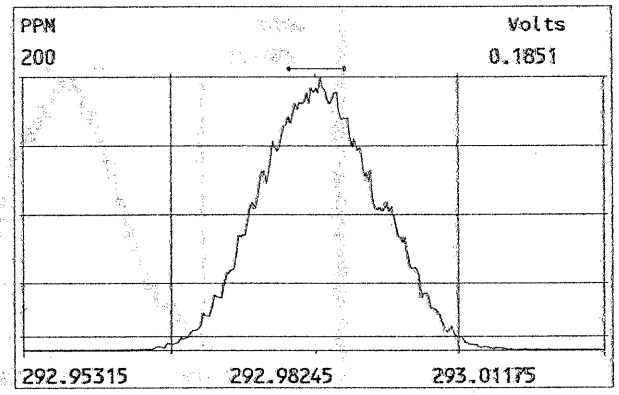


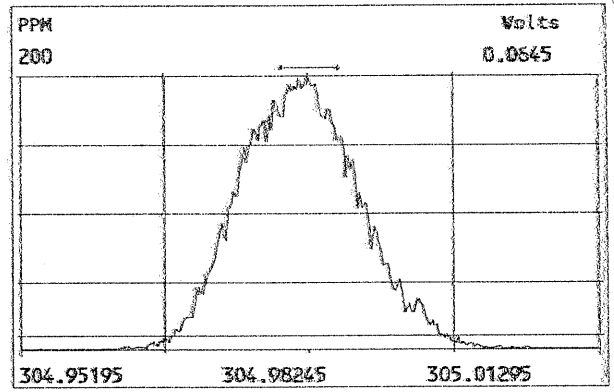


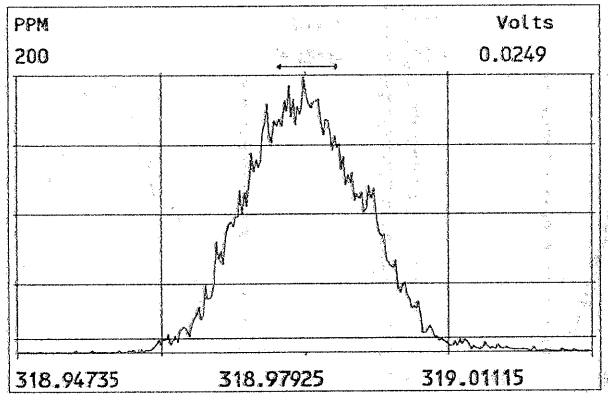


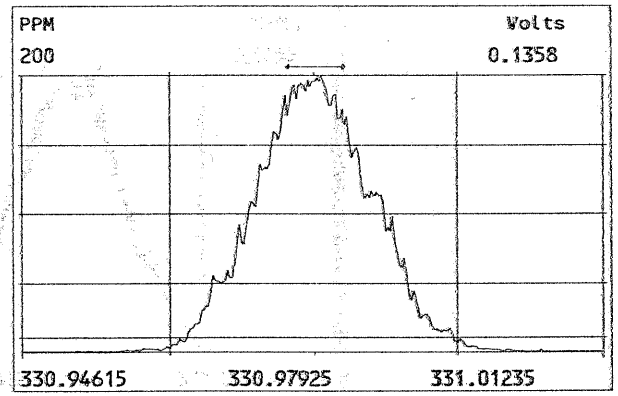
Peak Locate Examination: 2-AUG-2019:23:13 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

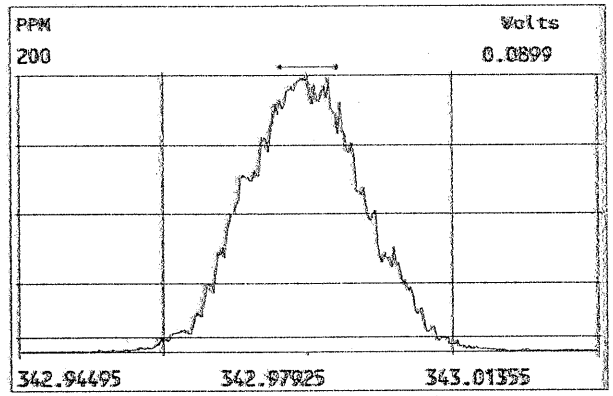


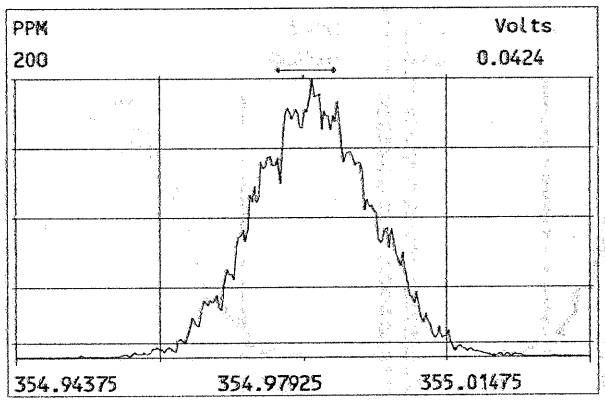


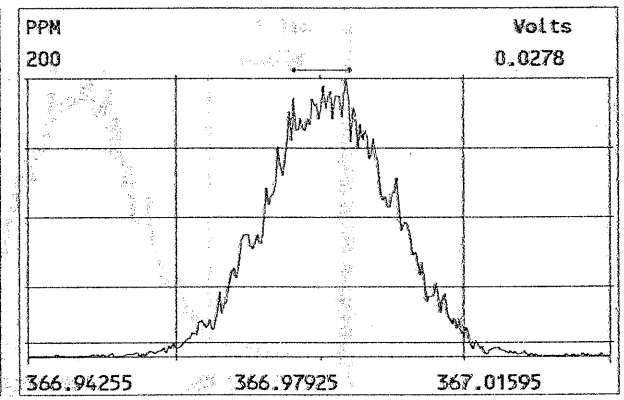


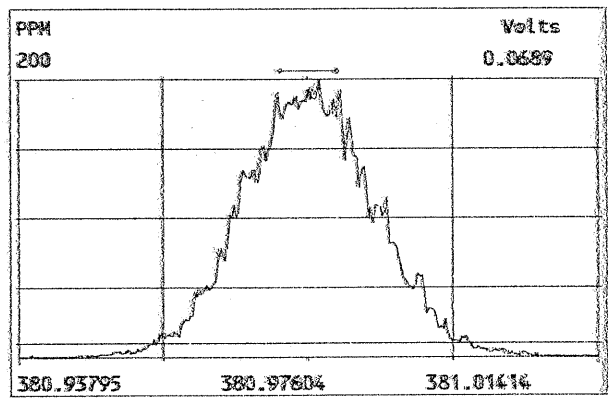






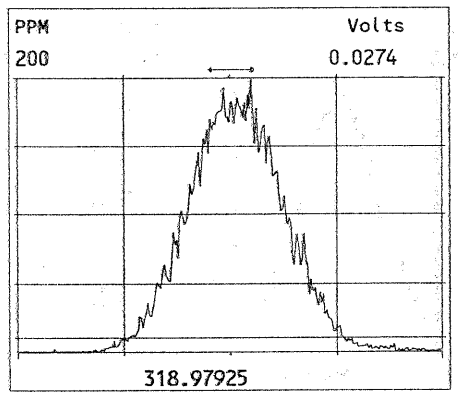


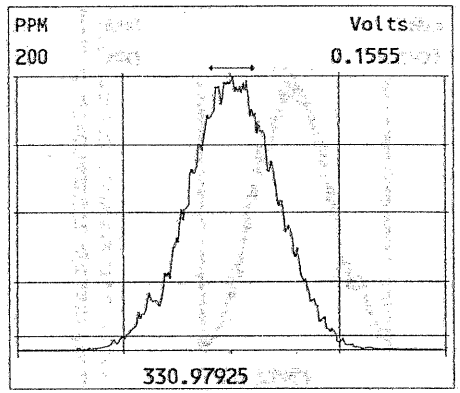


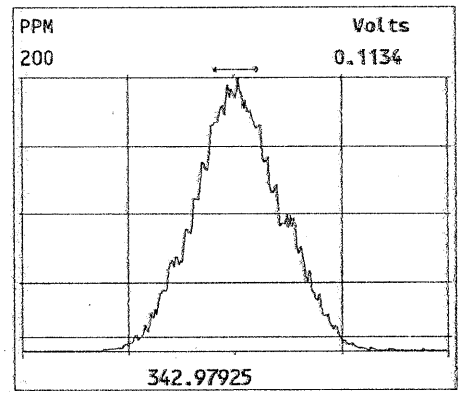


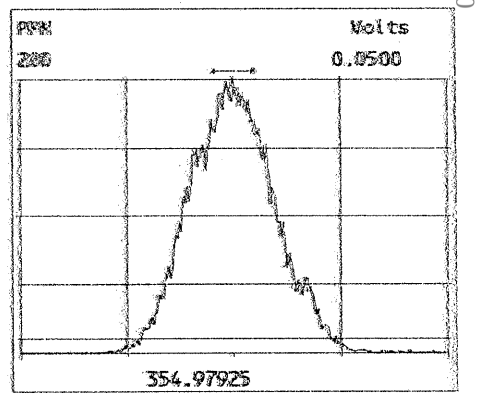
Peak Locate Examination: 2-AUG-2019:23:15 File:02AUG19Z_RES_CHECK

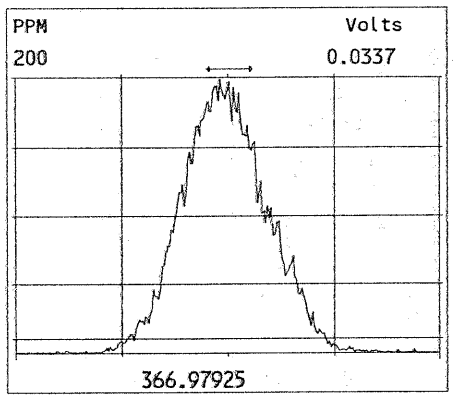
Experiment:1668PCB Function:5 Reference:PFK

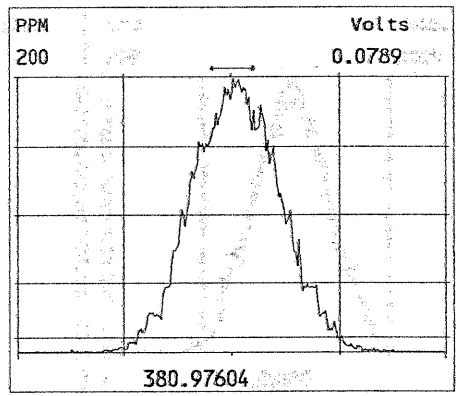


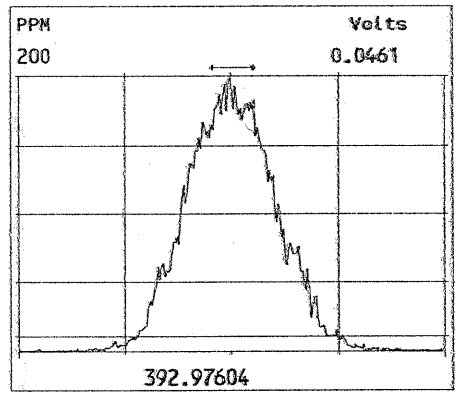


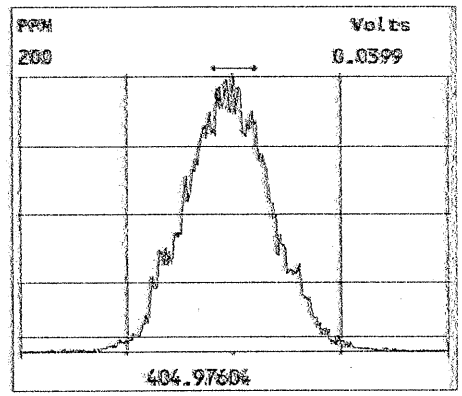


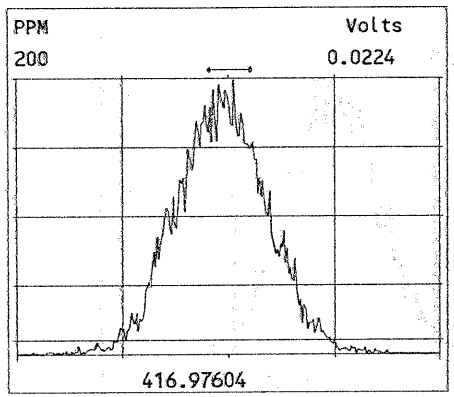


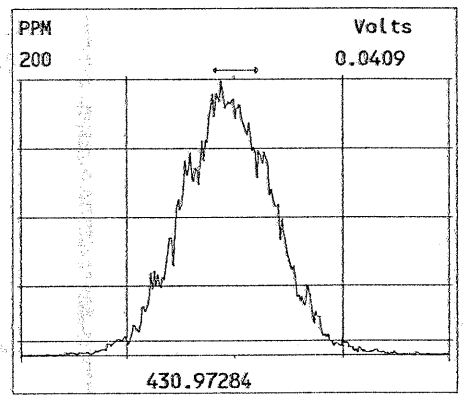


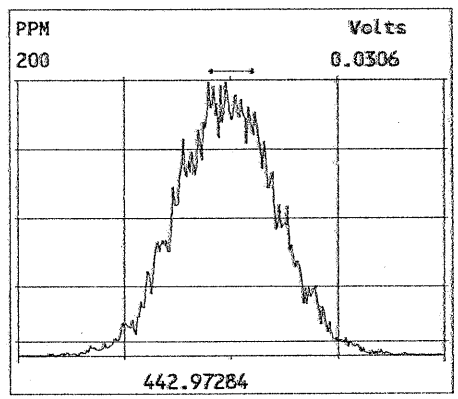




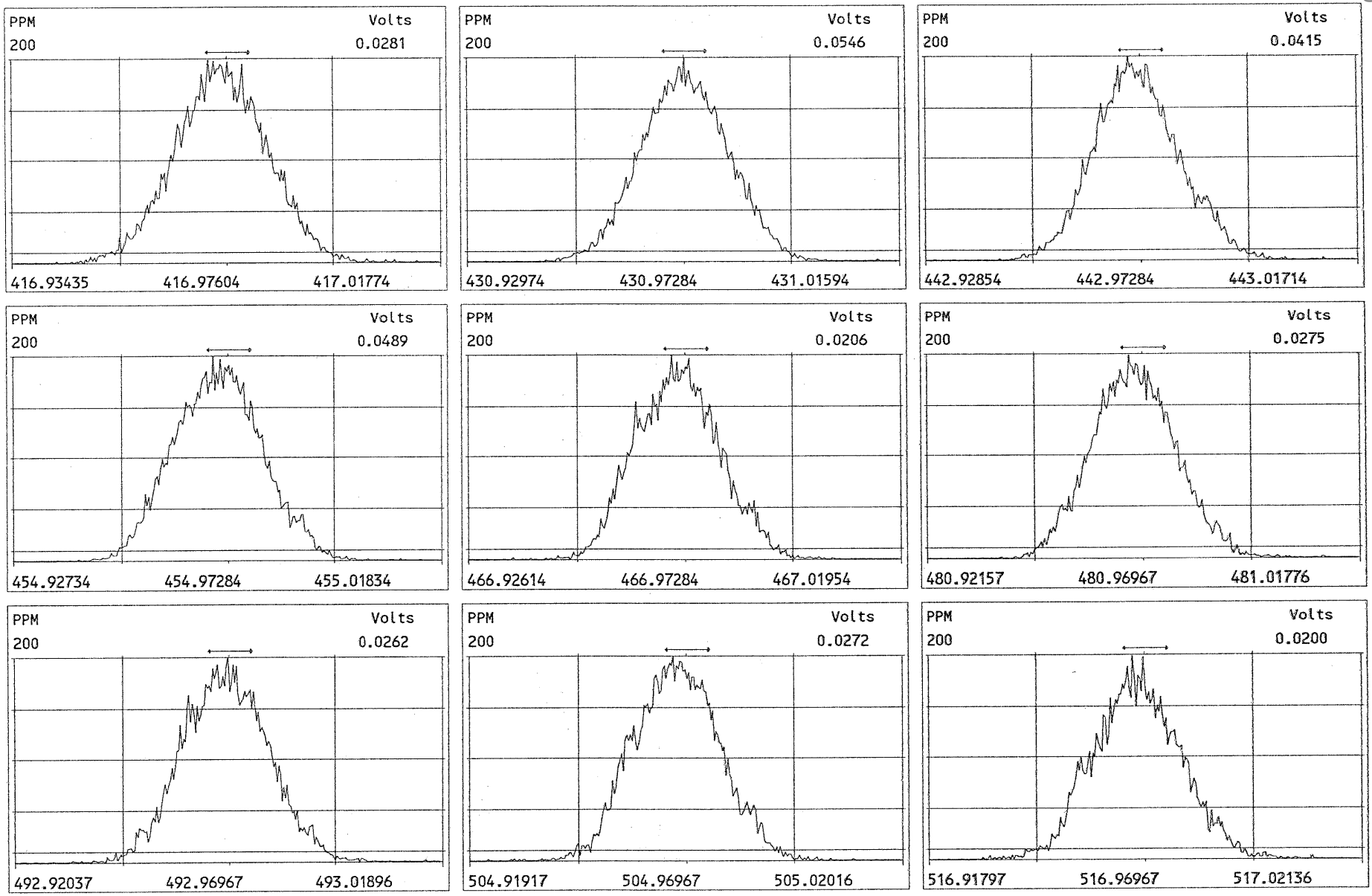








Peak Locate Examination: 2-AUG-2019:23:18 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK



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: 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: [signature] Date: 8/5/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:05AUG19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

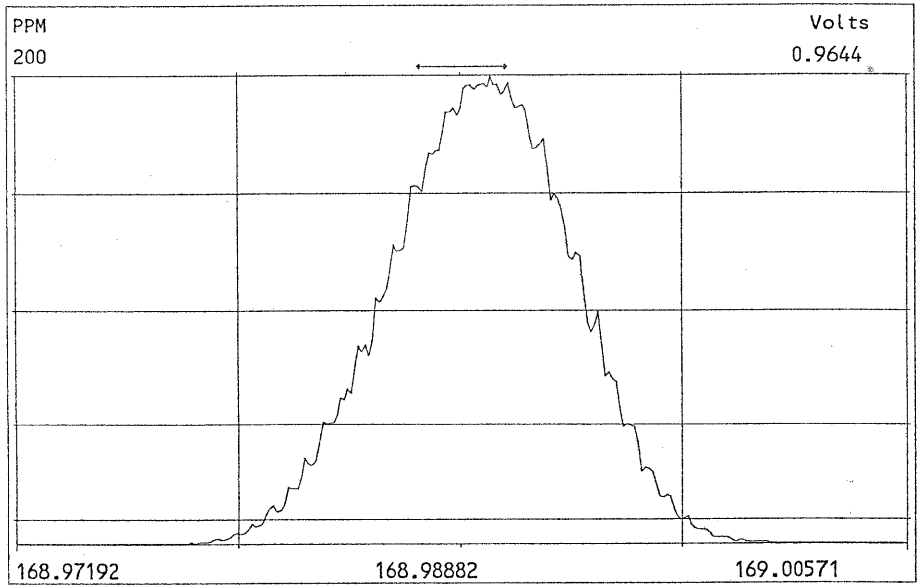
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
05AUG19Z	1	ST080519Z1	1668 CS3 R181204D	5-AUG-19 09:35:17	ST080519Z1	ST080519Z2	BS
05AUG19Z	2	SS080519Z1	Daily 209 190408A	5-AUG-19 10:33:37	ST080519Z1	ST080519Z2	BS
05AUG19Z	3	12511-009-0001-SA	LDW-Y2-IN-ENR-CE-S010	5-AUG-19 11:31:58	ST080519Z1	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

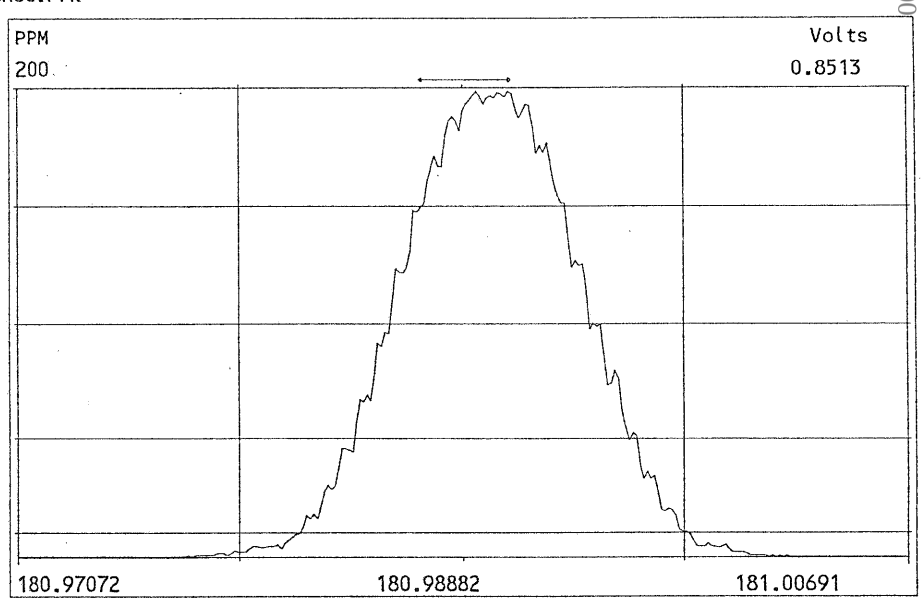
8/6/19

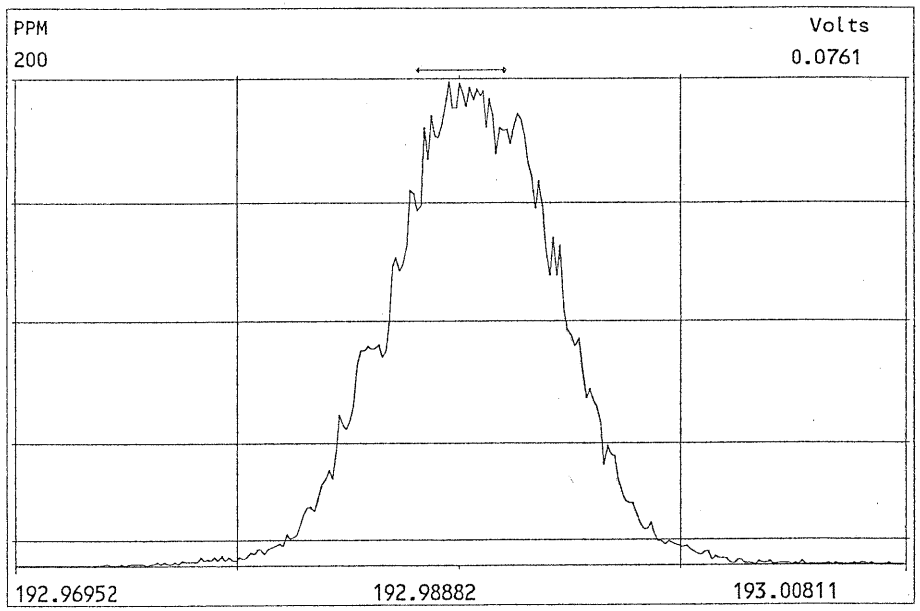
Data Backed Up:_____

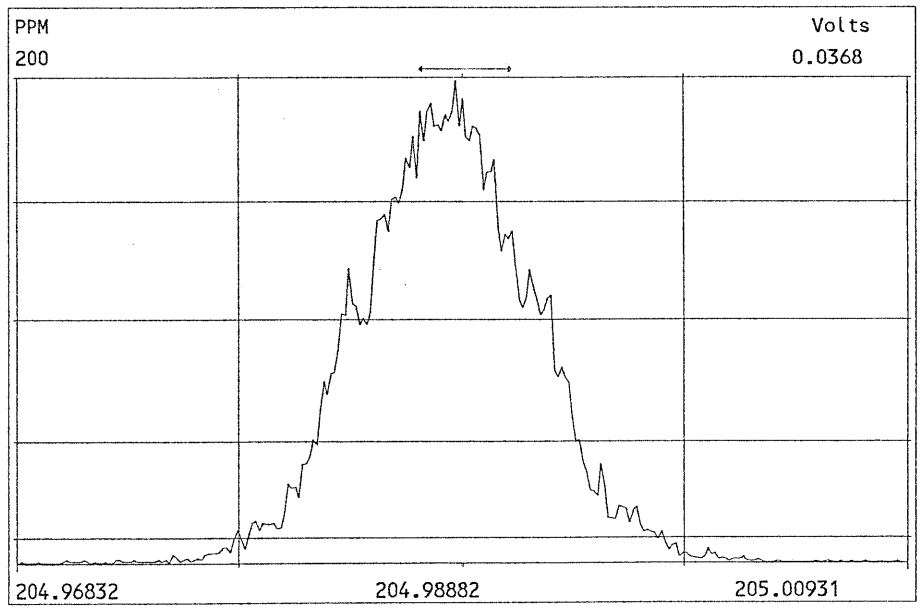
Date:_____

Peak Locate Examination: 5-AUG-2019:09:32 File:05AUG19Z
Experiment:1668PCB Function:1 Reference:PFK

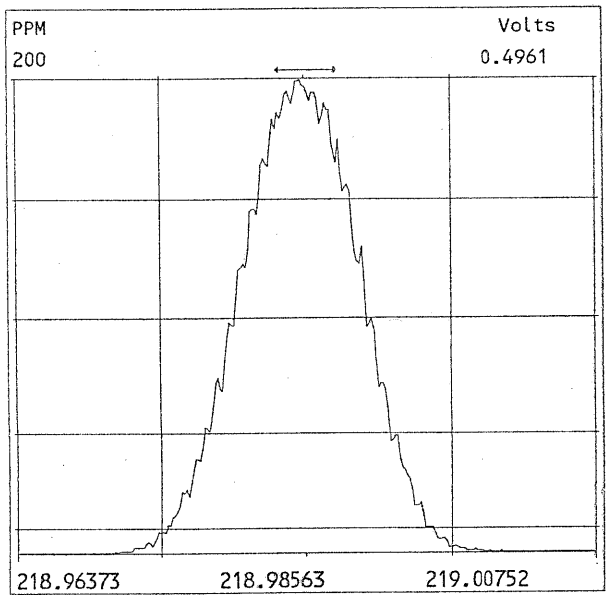


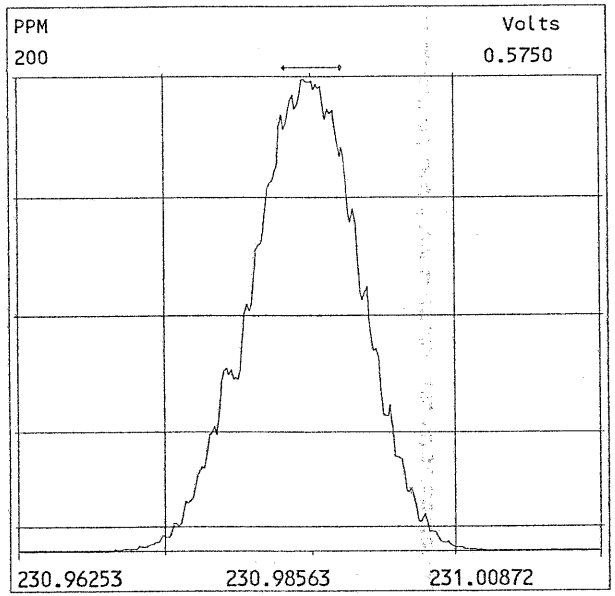


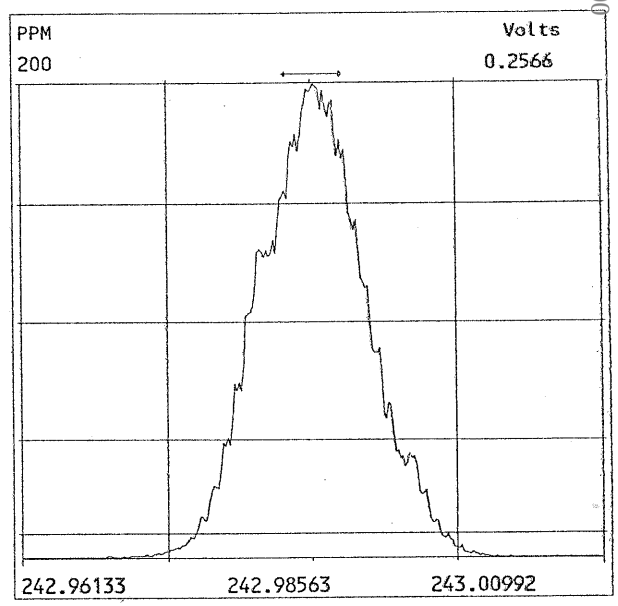


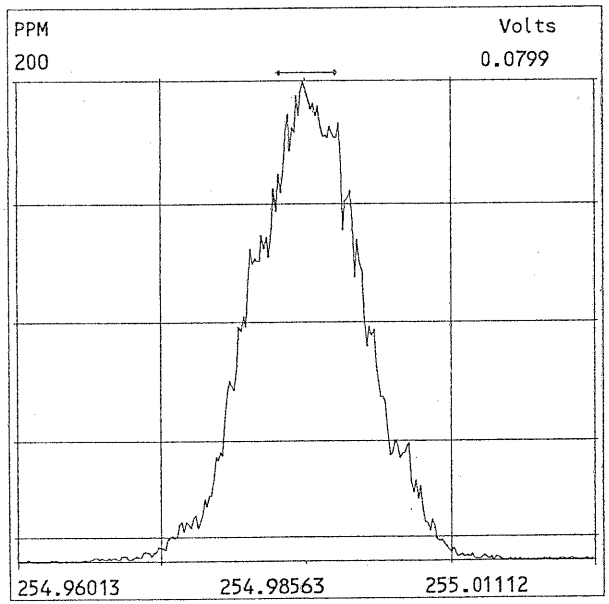


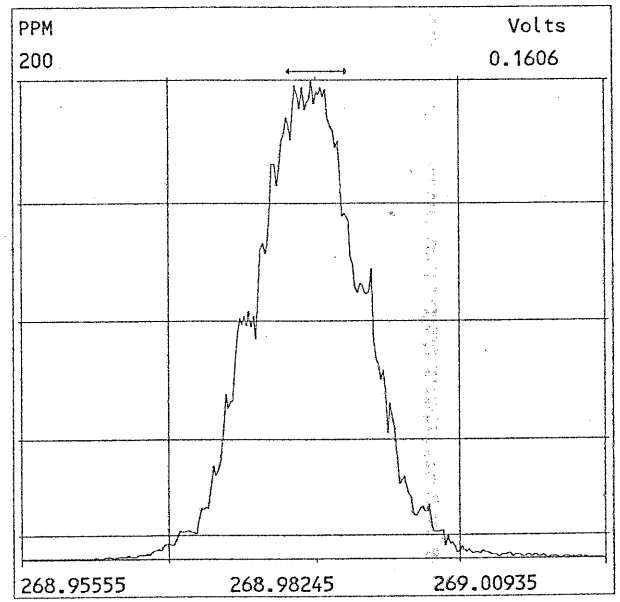
Peak Locate Examination: 5-AUG-2019:09:32 File:05AUG19Z
Experiment:1668PCB Function:2 Reference:PFK

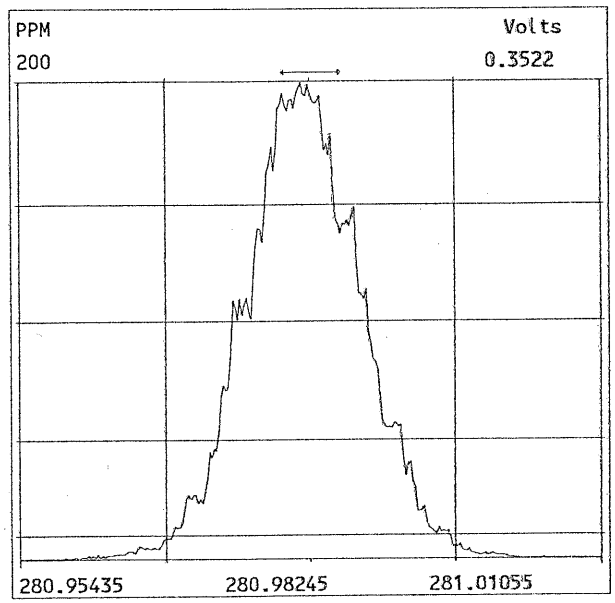












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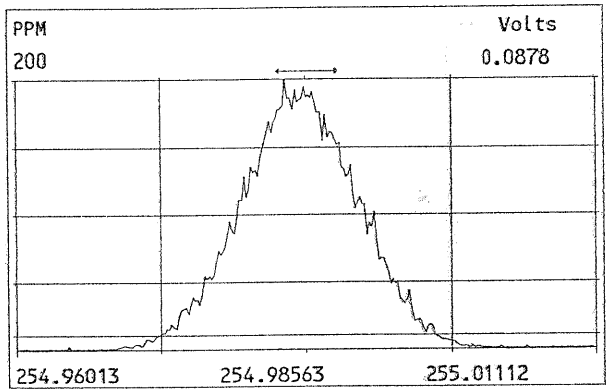
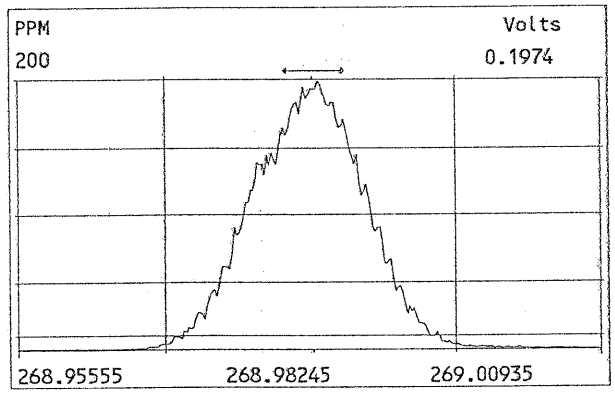
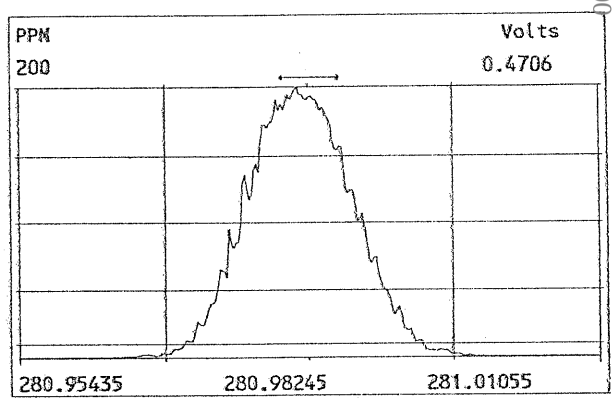
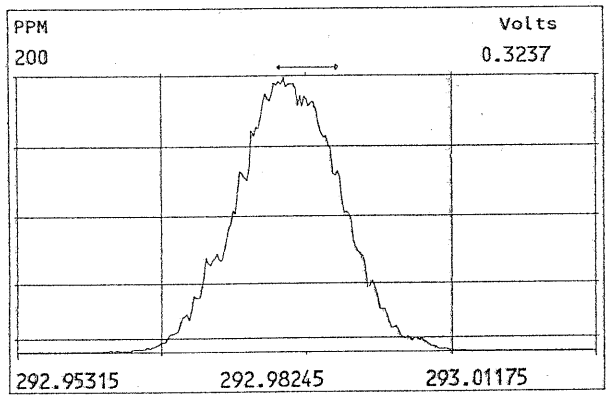
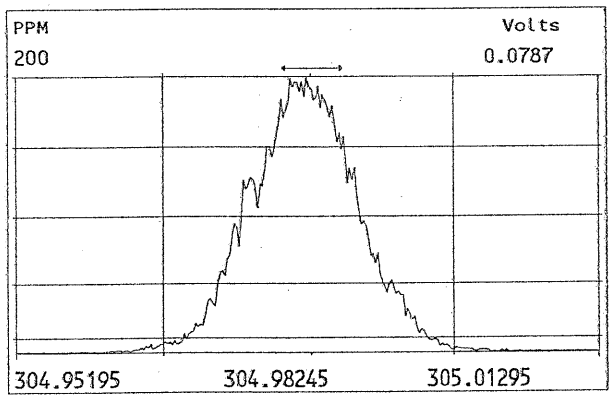
Experiment:1668PCB Function:3 Reference:PFK

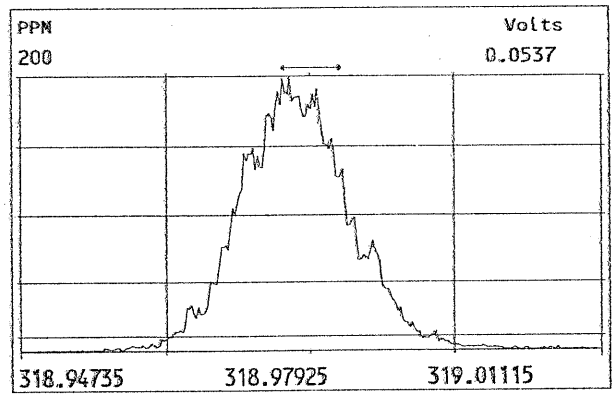


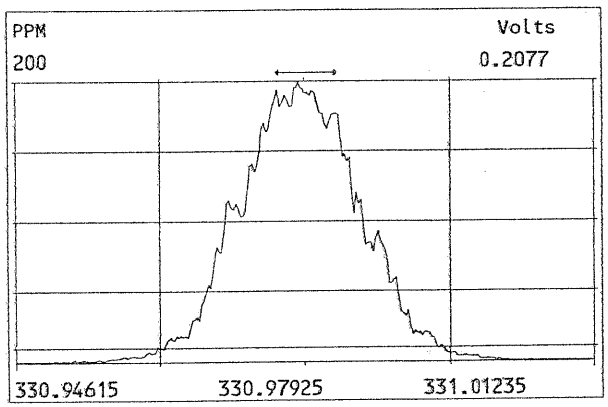


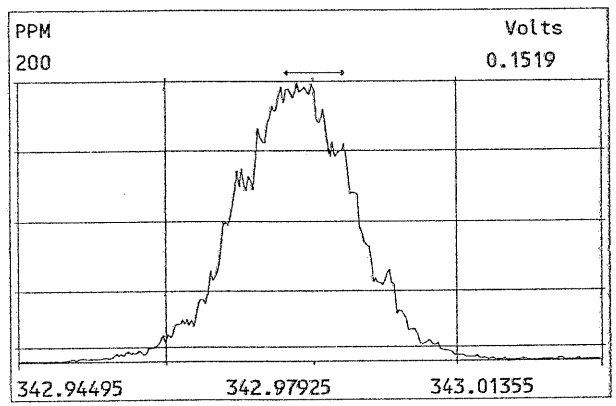




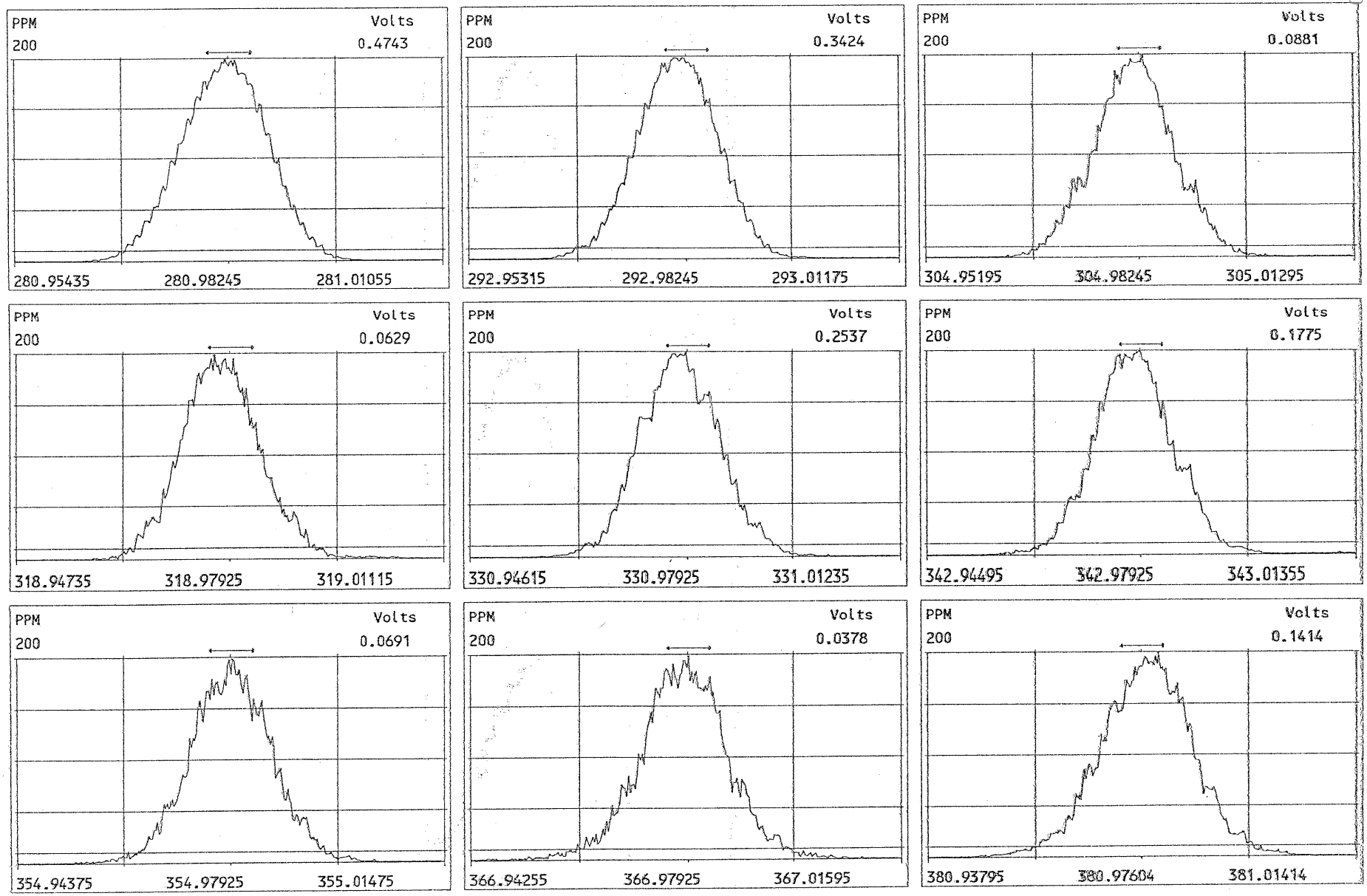




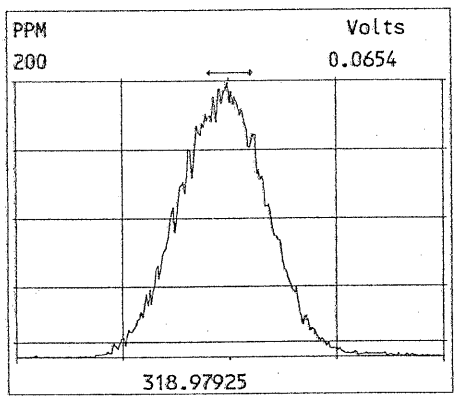


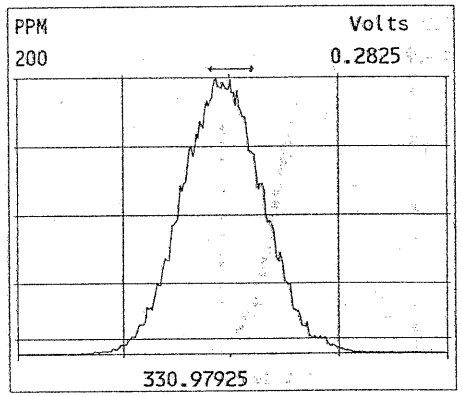


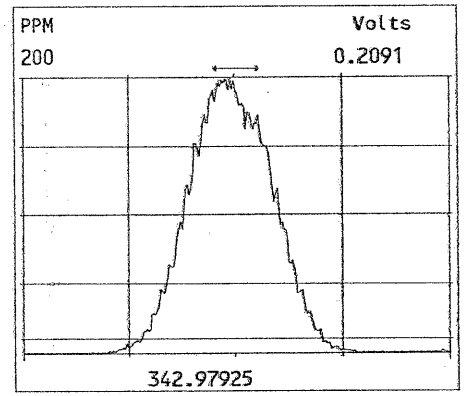
Peak Locate Examination: 5-AUG-2019:09:33 File:05AUG19Z
Experiment:1668PCB Function:4 Reference:PFK

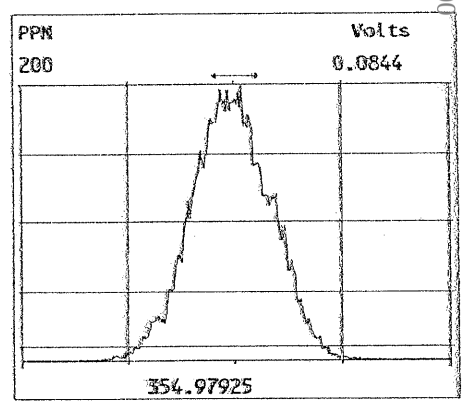


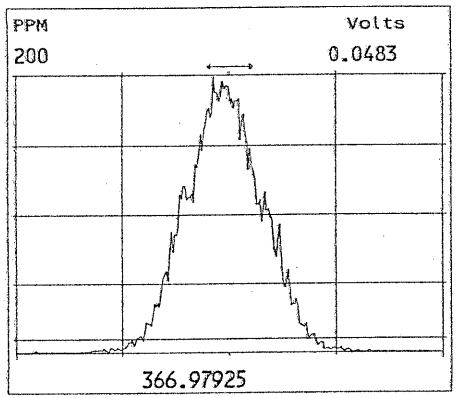
Peak Locate Examination: 5-AUG-2019:09:34 File:05AUG19Z
Experiment:1668PCB Function:5 Reference:PFK

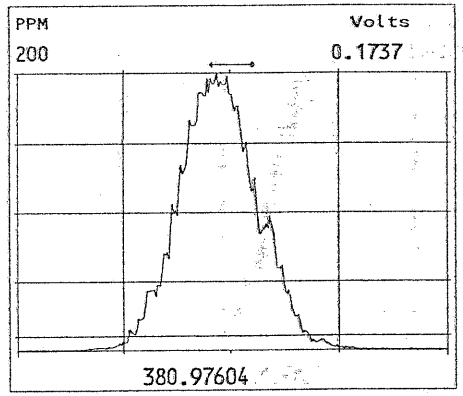


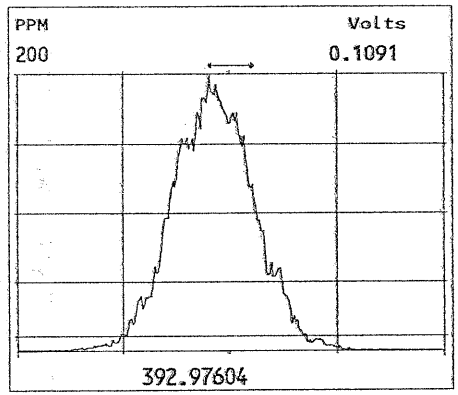


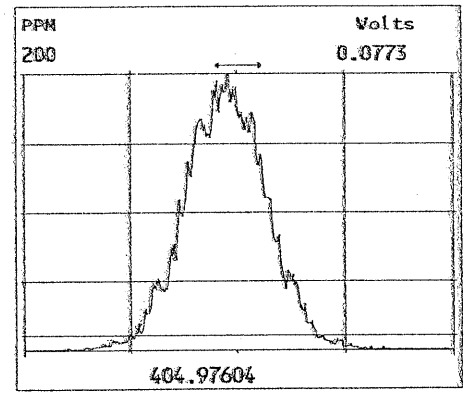


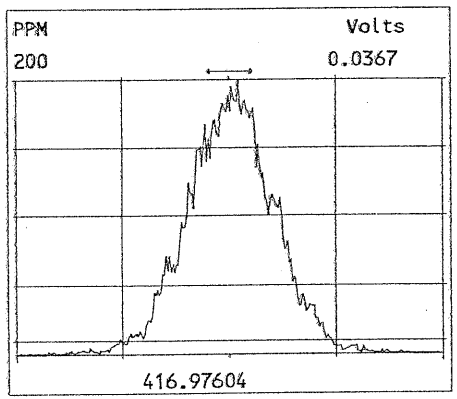


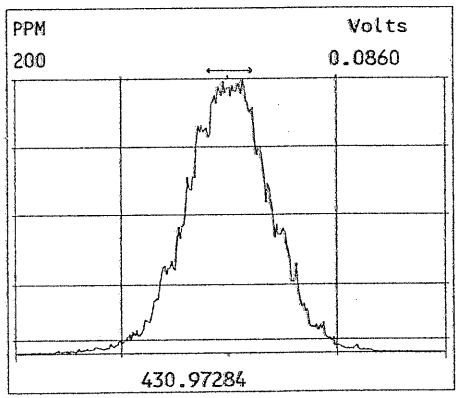


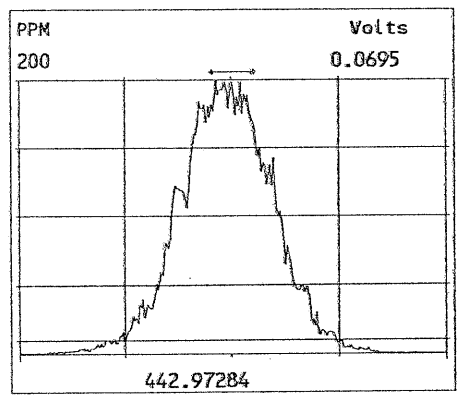




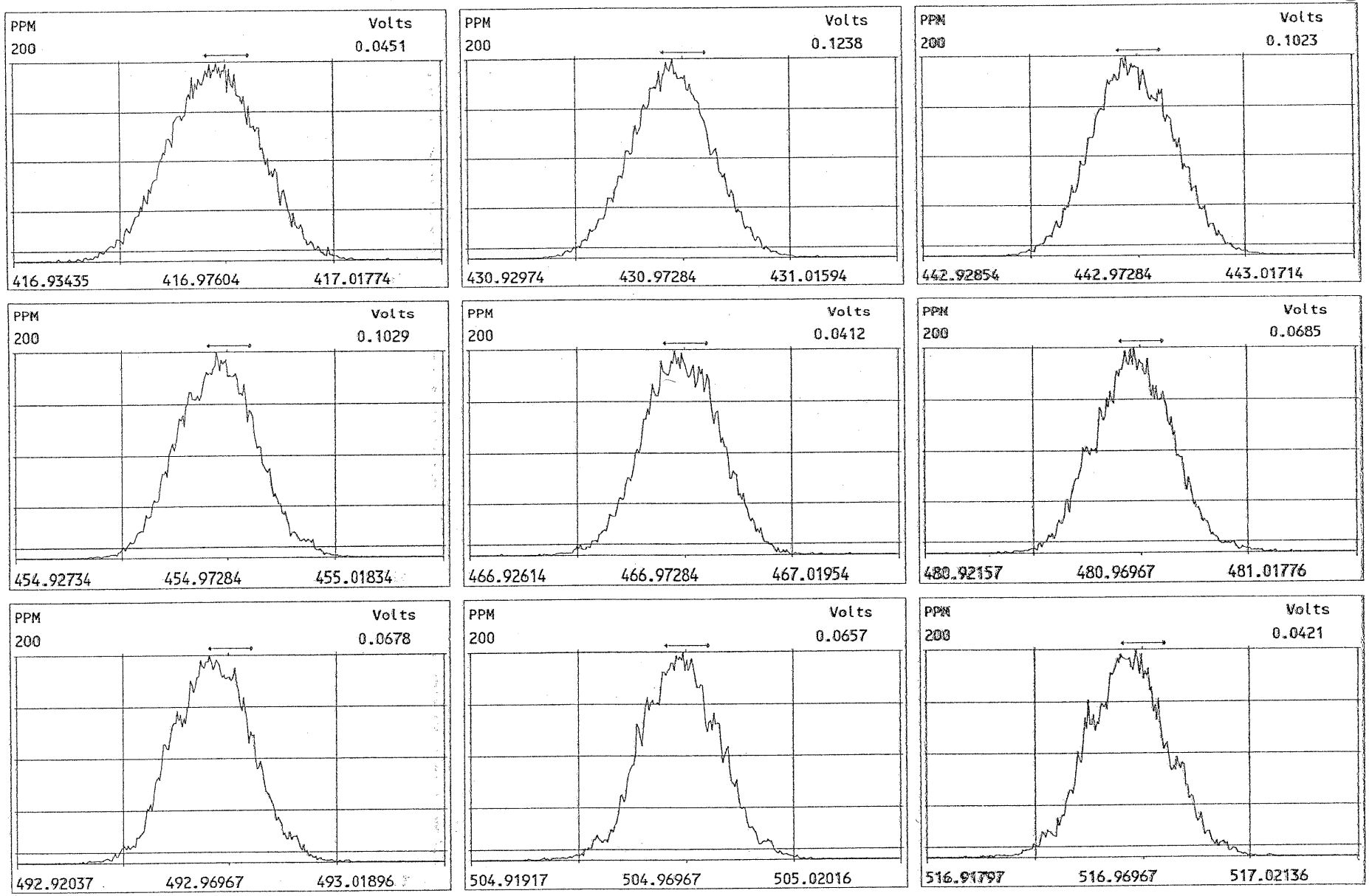








Peak Locate Examination: 5-AUG-2019:09:34 File:05AUG19Z
Experiment:1668PCB Function:6 Reference:PFK



File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
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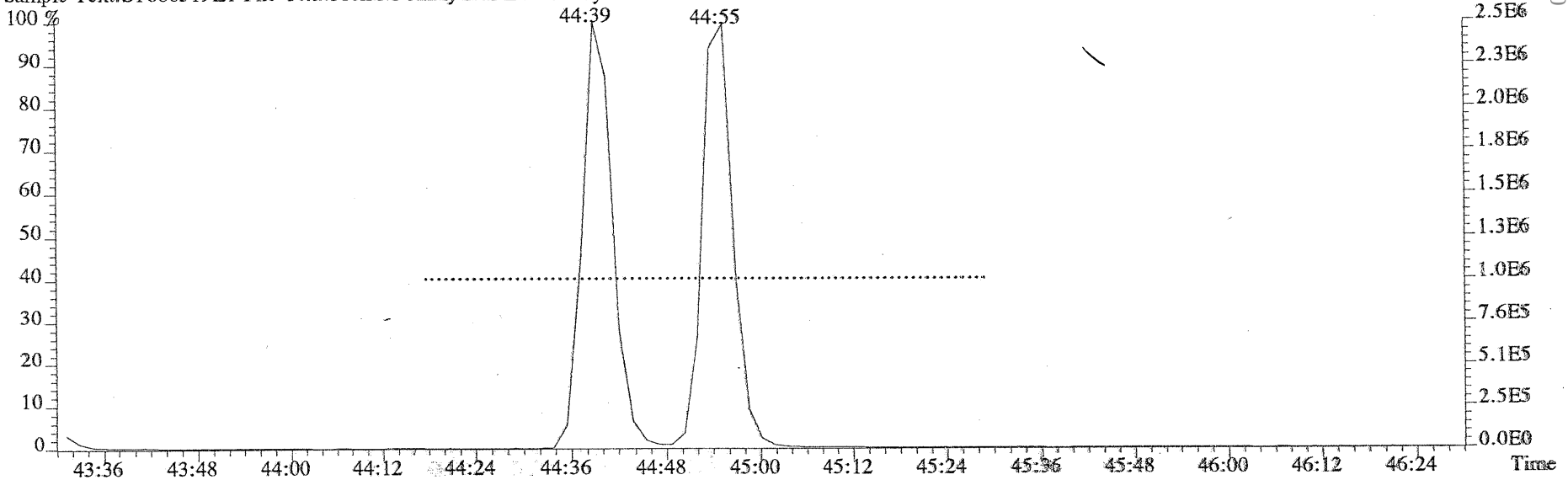

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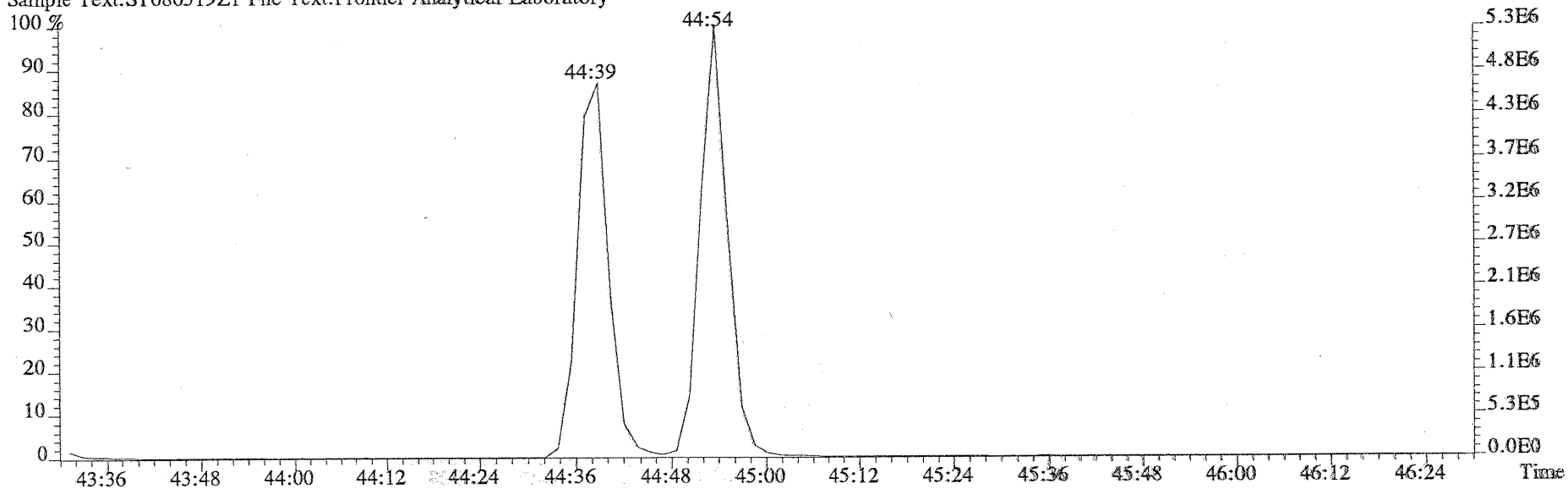
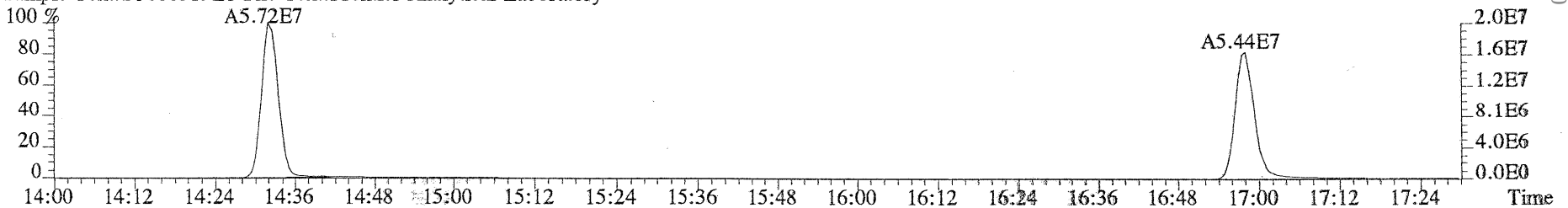
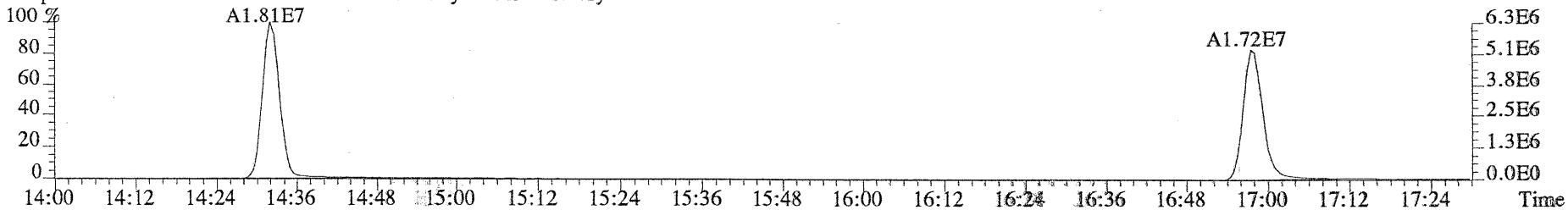


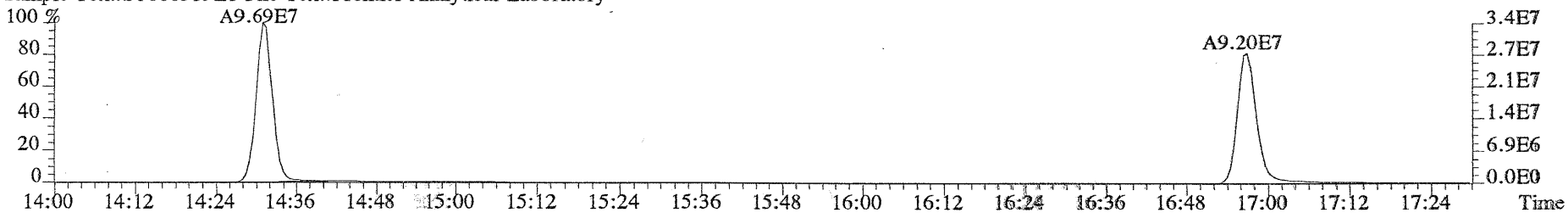
File:05AUG19Z #1-783 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



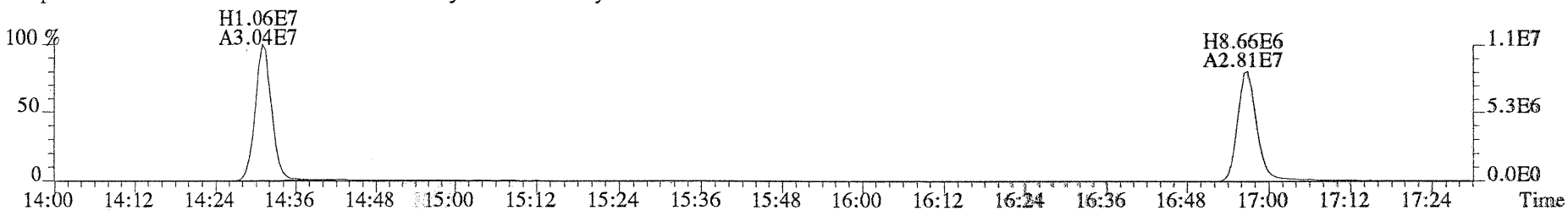
File:05AUG19Z #1-783 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



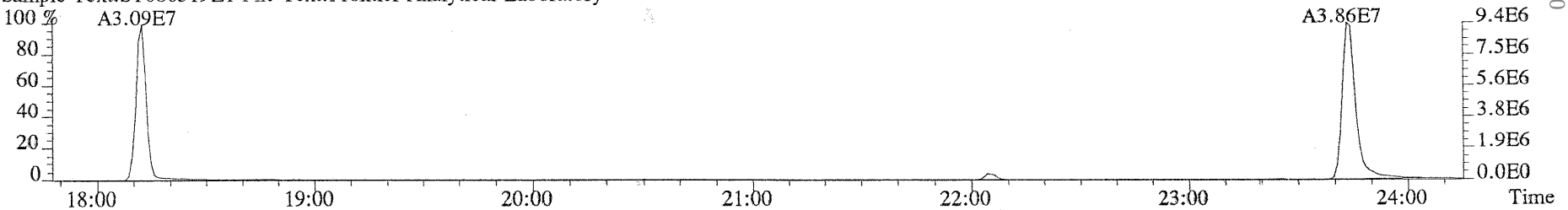
File:05AUG19Z #1-783 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



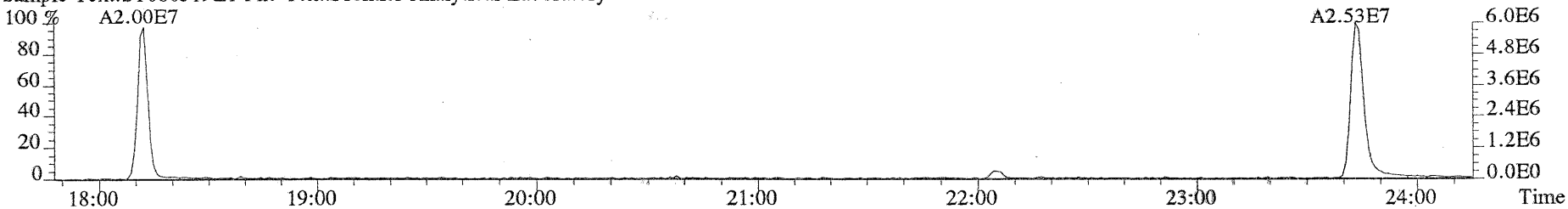
File:05AUG19Z #1-783 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



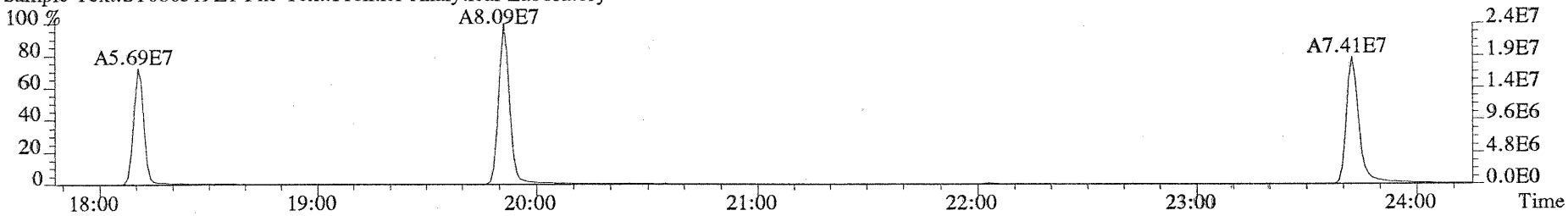
File:05AUG19Z #1-520 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



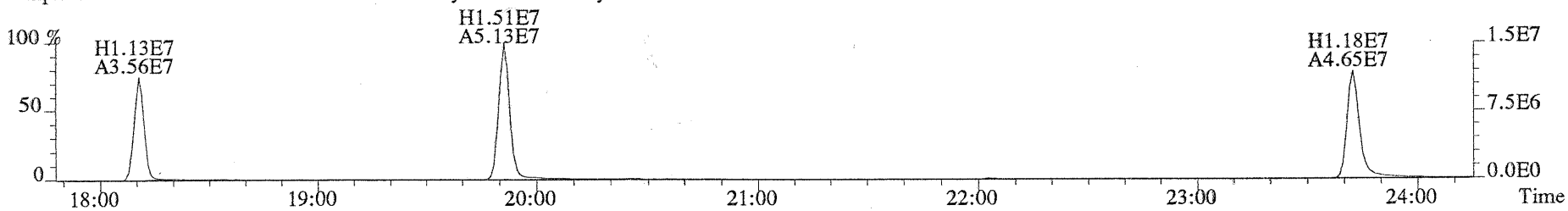
File:05AUG19Z #1-520 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
223.9975 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



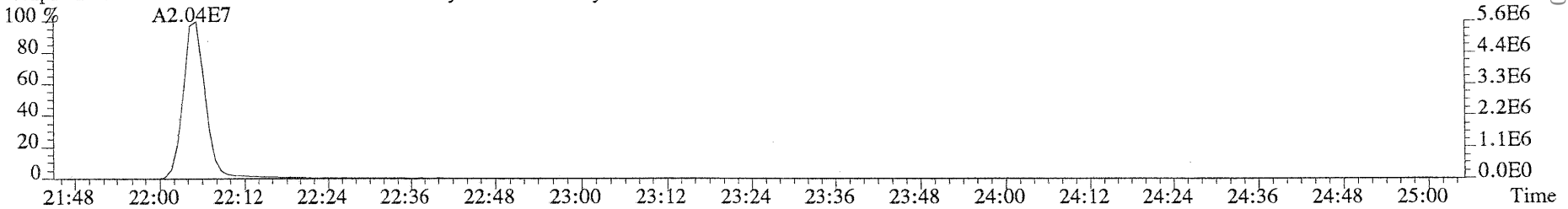
File:05AUG19Z #1-520 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



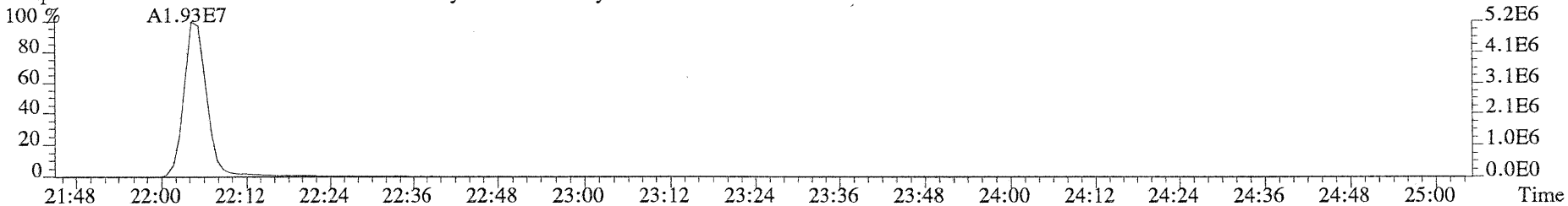
File:05AUG19Z #1-520 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



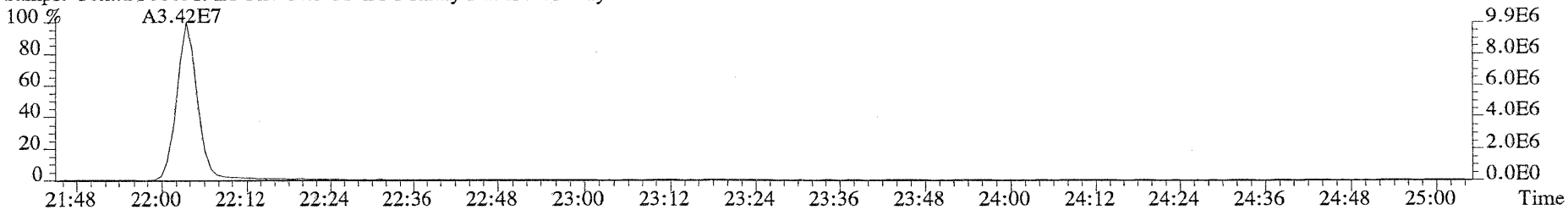
File:05AUG19Z #1-520 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



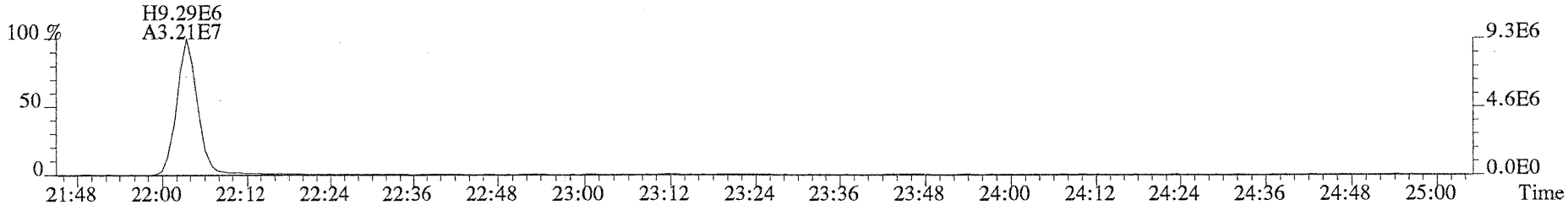
File:05AUG19Z #1-520 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



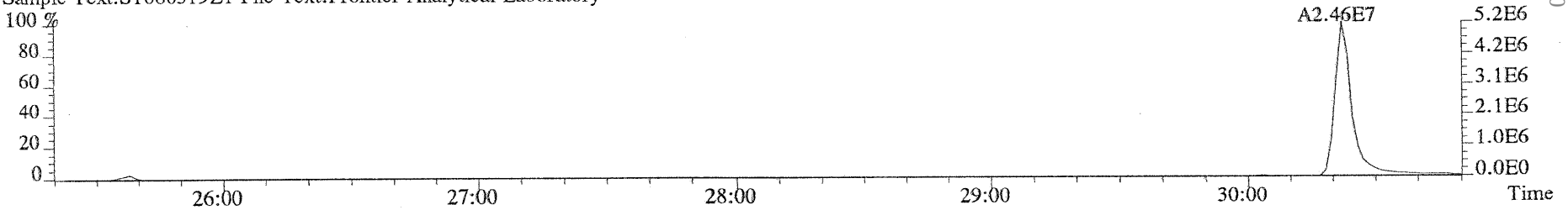
File:05AUG19Z #1-520 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



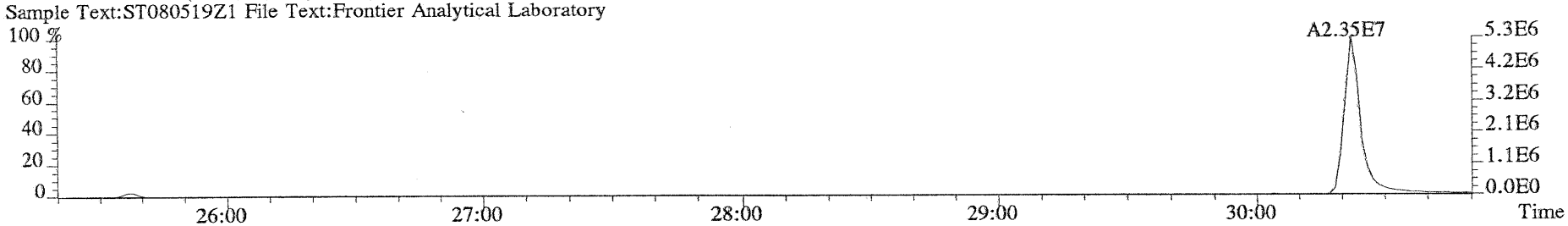
File:05AUG19Z #1-520 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



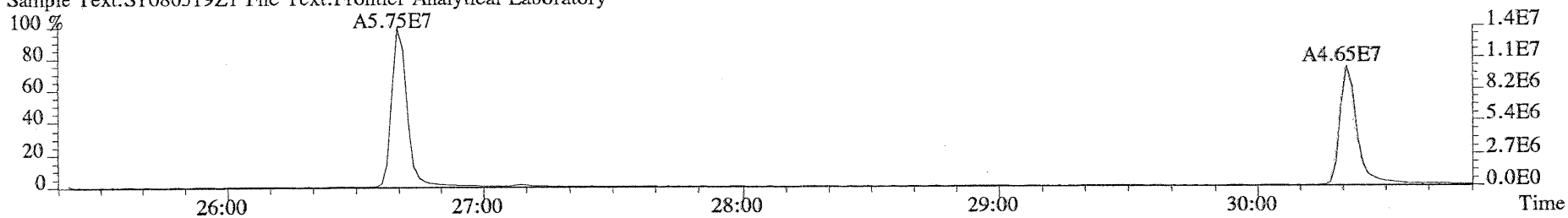
File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



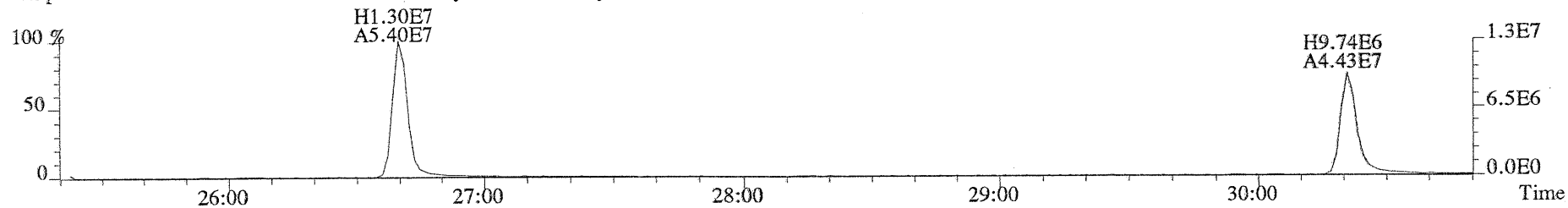
File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



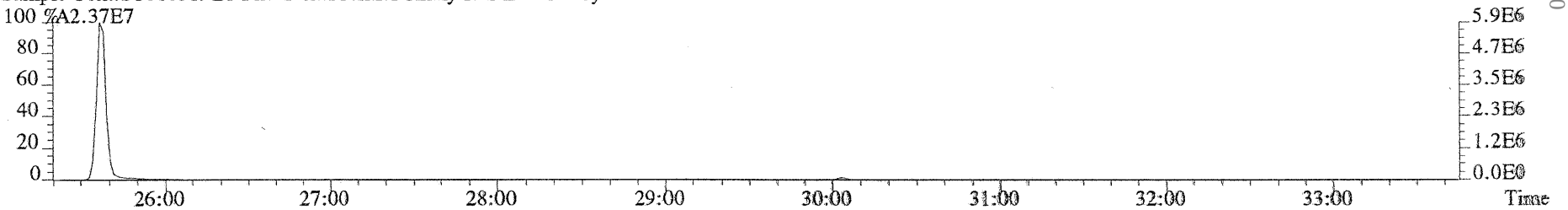
File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



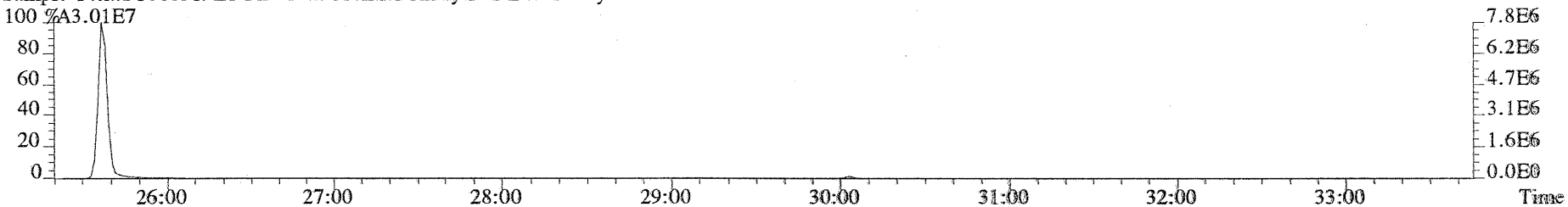
File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



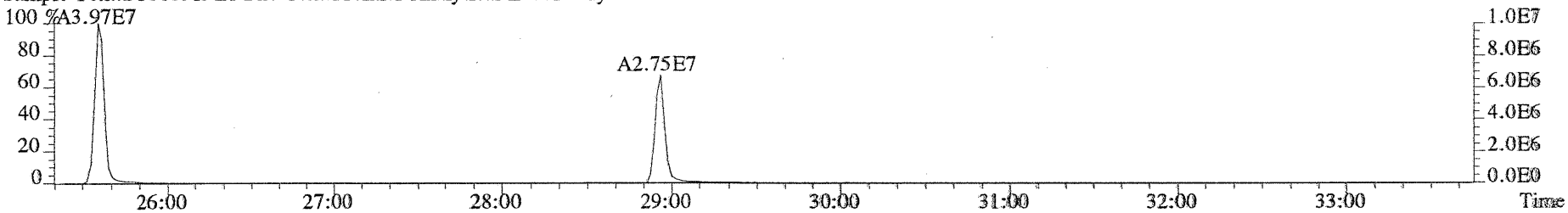
File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



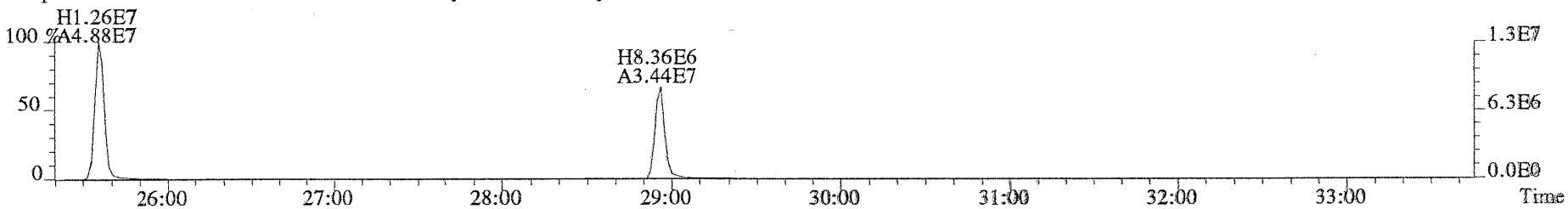
File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



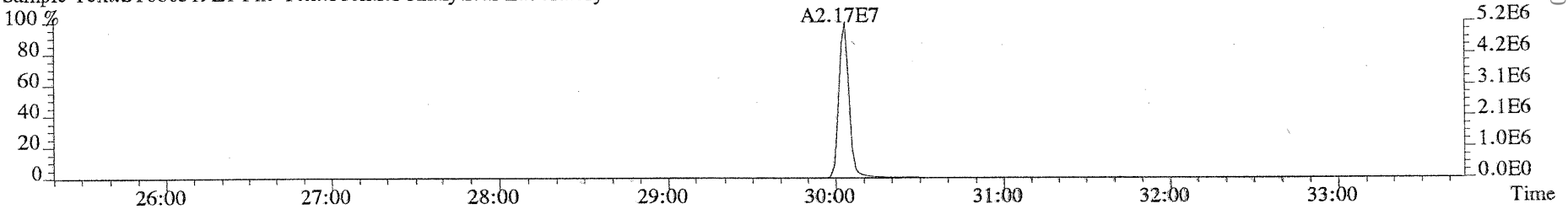
File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



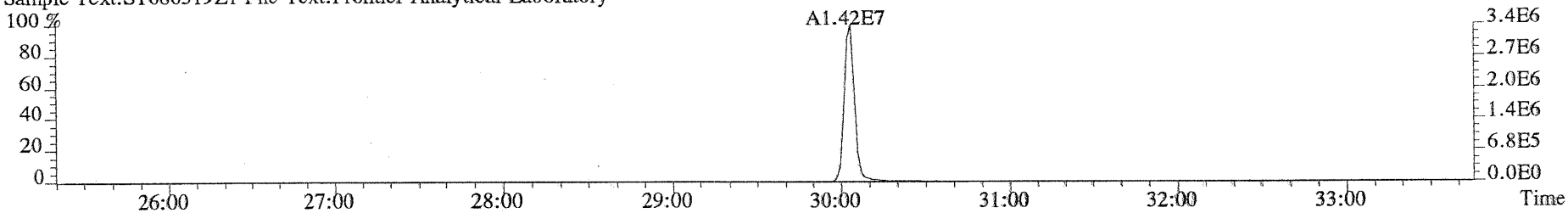
File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



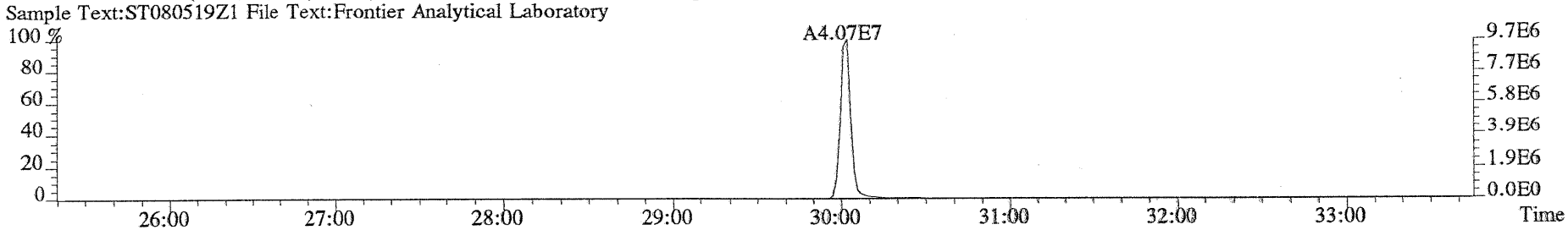
File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



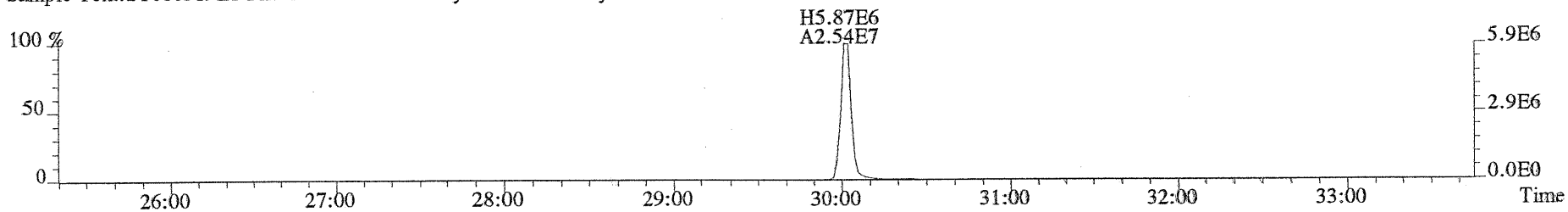
File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



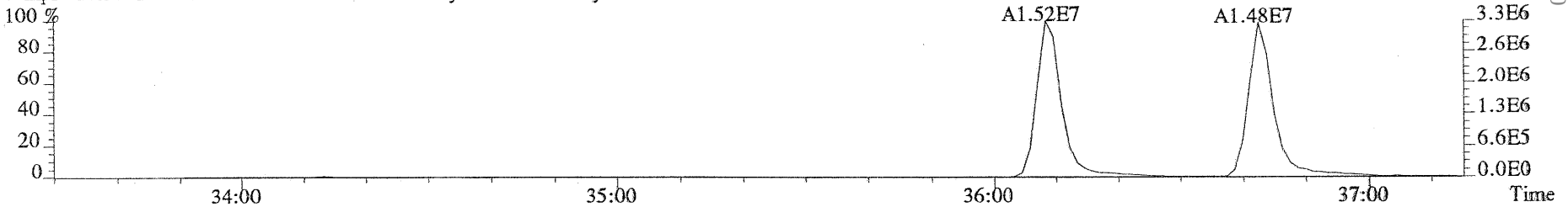
File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



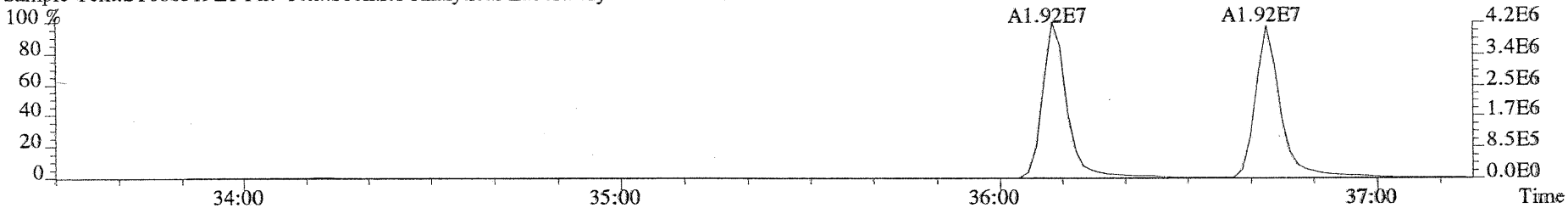
File:05AUG19Z #1-401 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



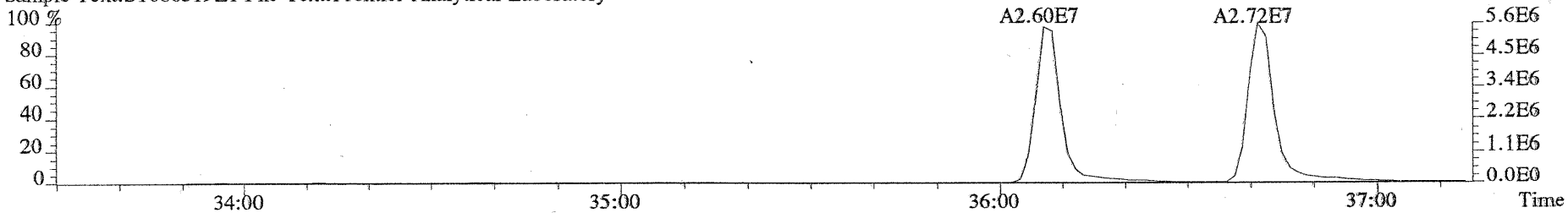
File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



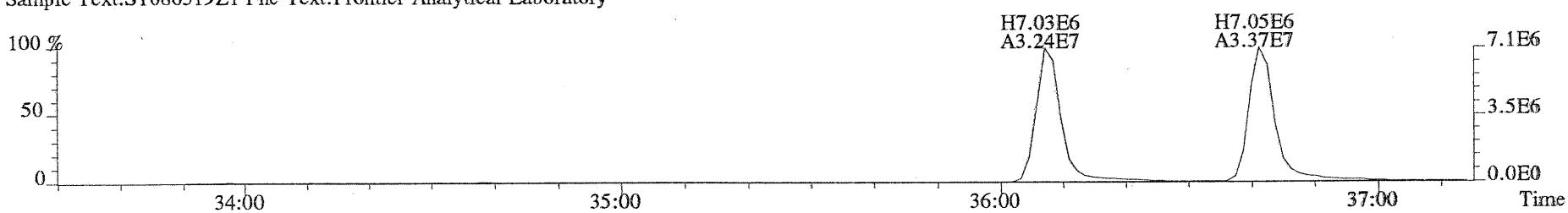
File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



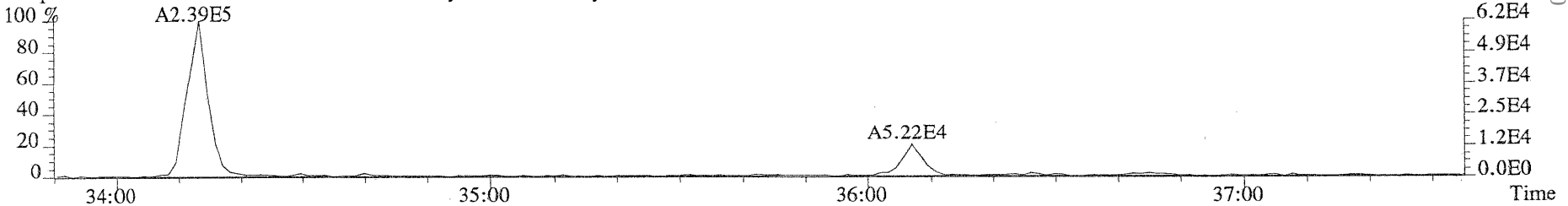
File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



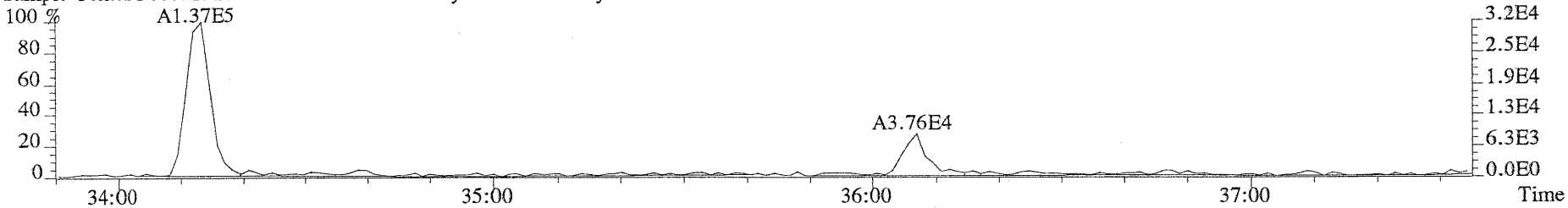
File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



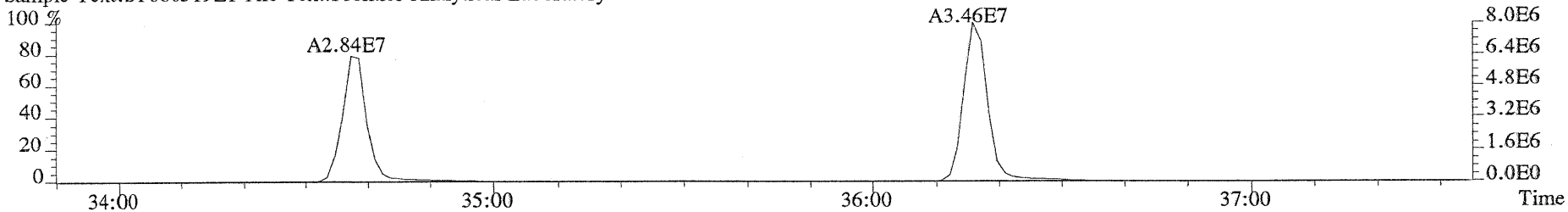
File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



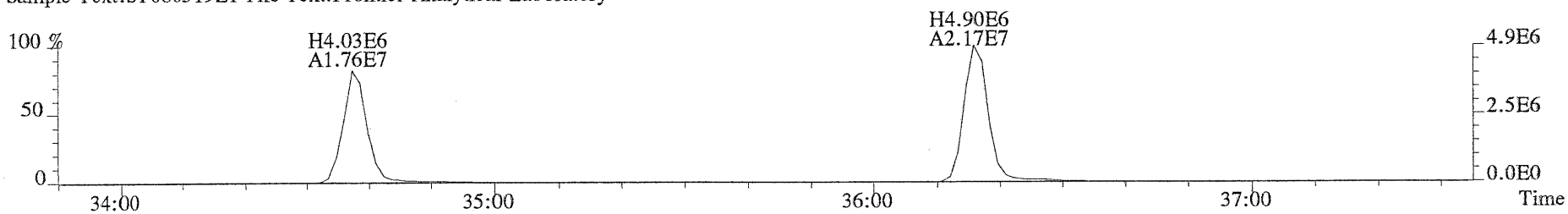
File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



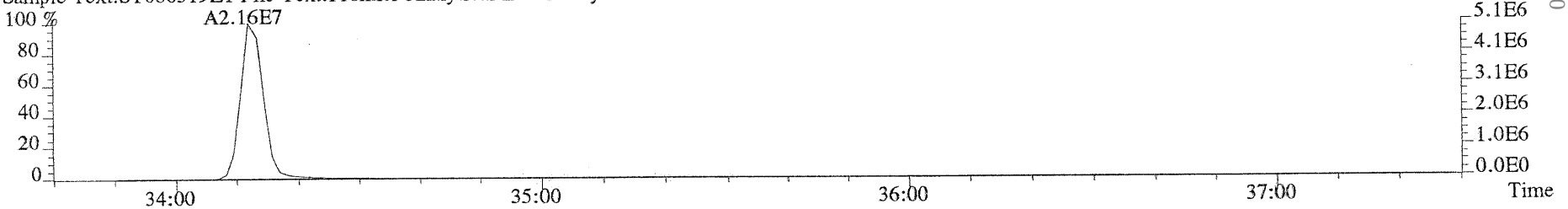
File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



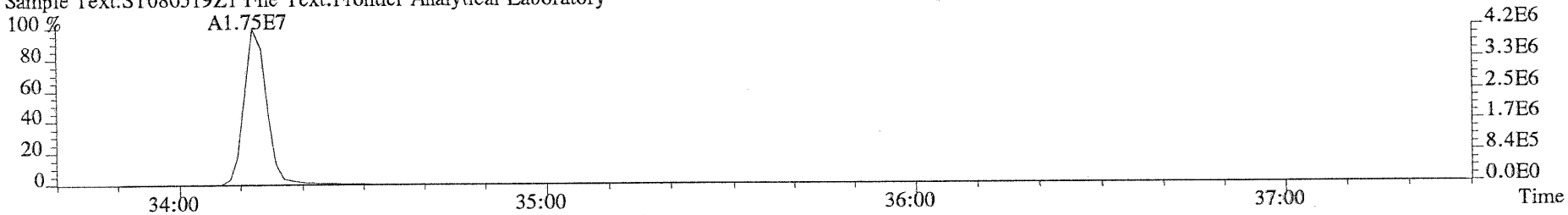
File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



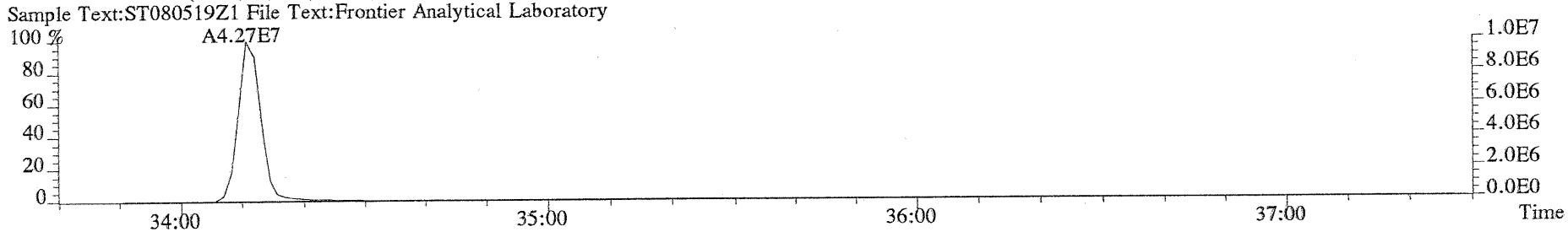
File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



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

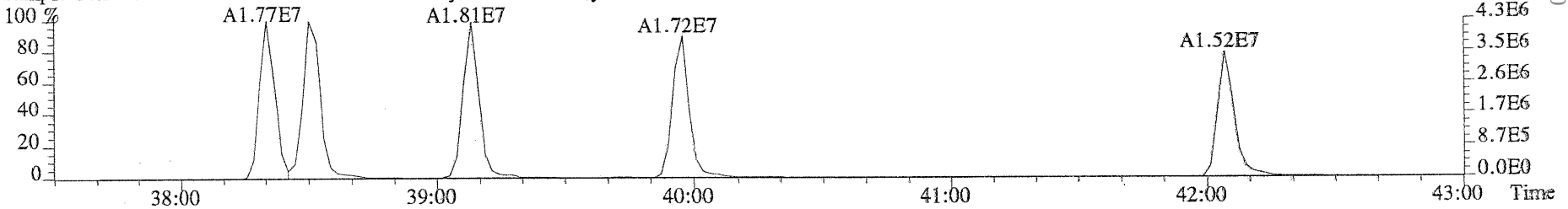


File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory

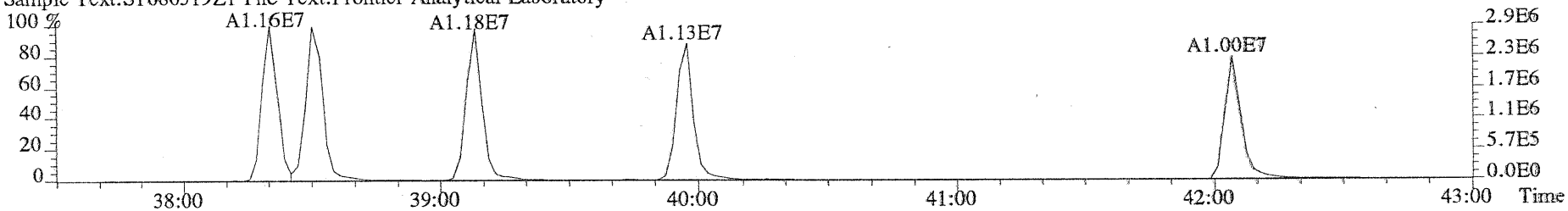


File:05AUG19Z #1-181 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory

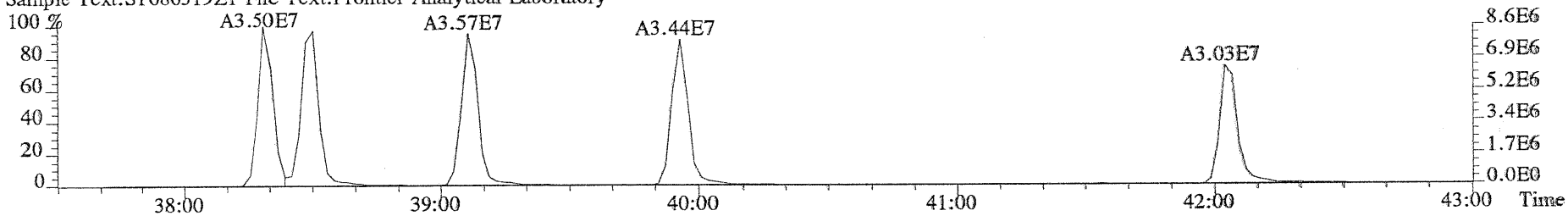
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



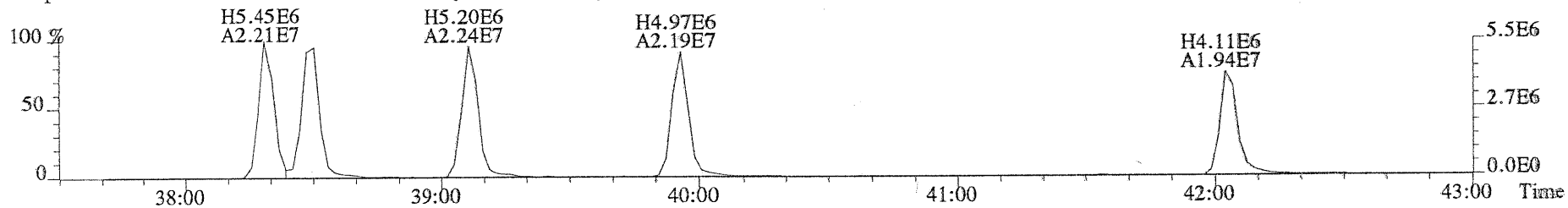
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



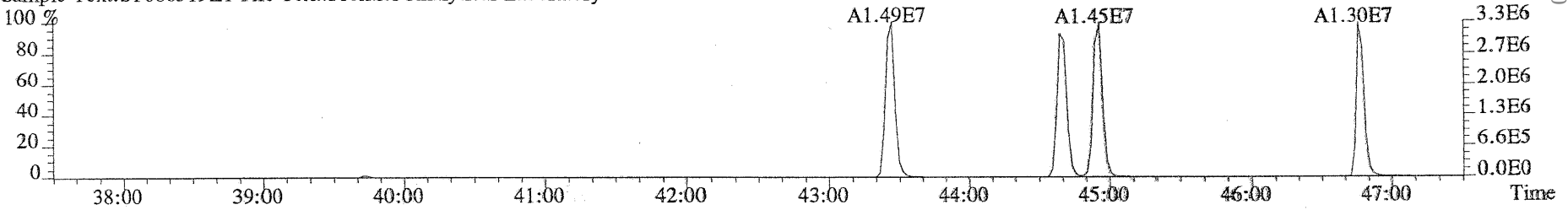
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



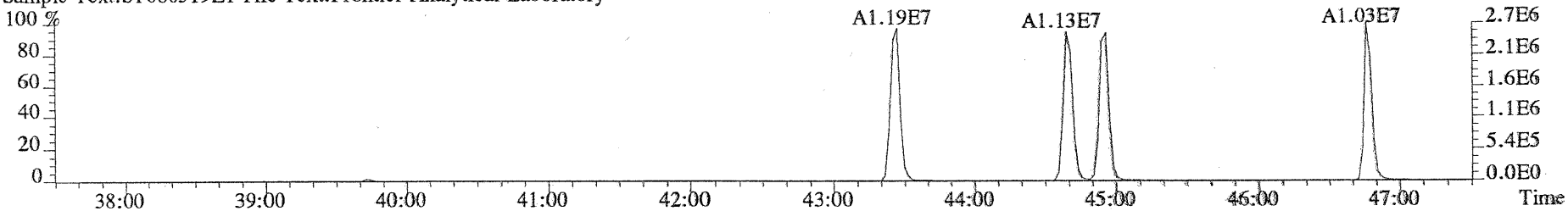
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



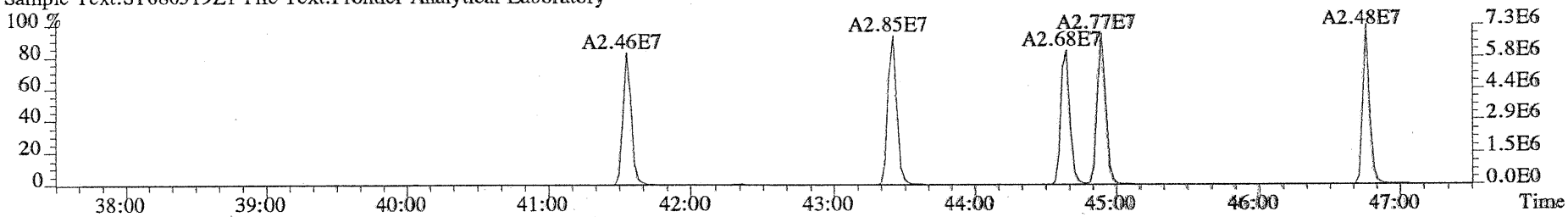
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



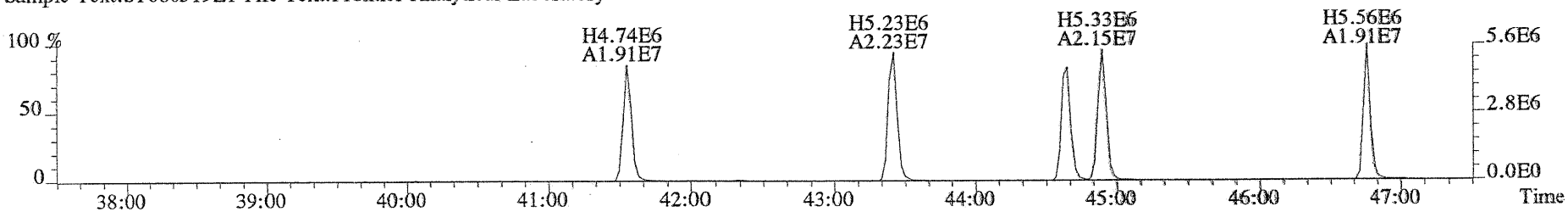
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



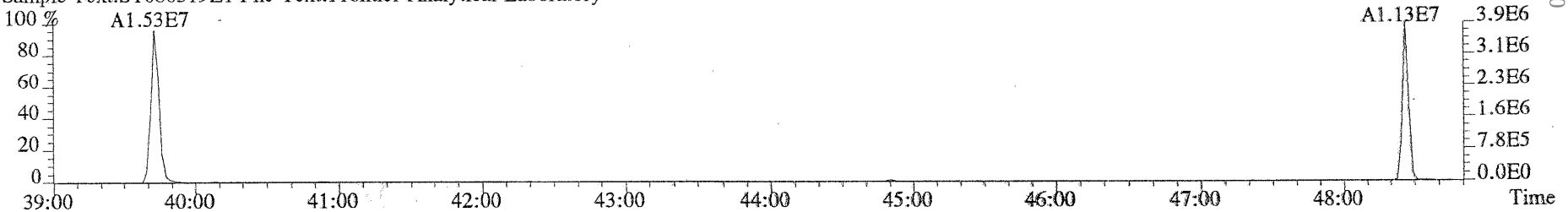
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



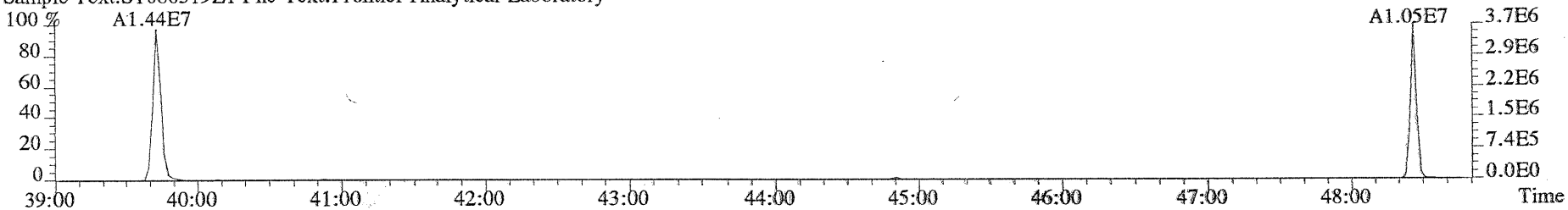
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



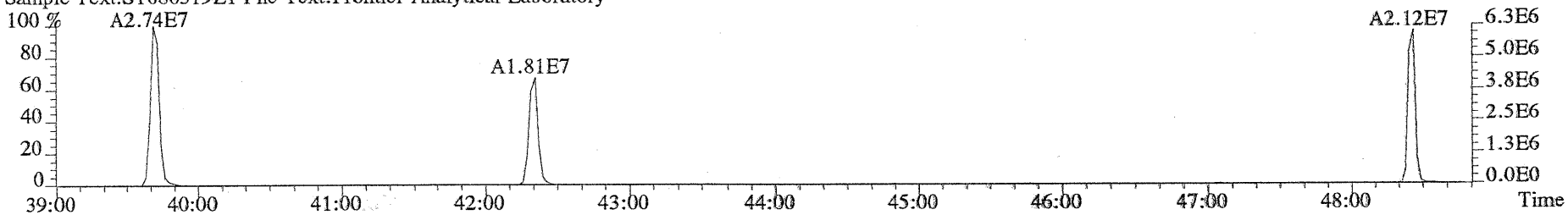
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



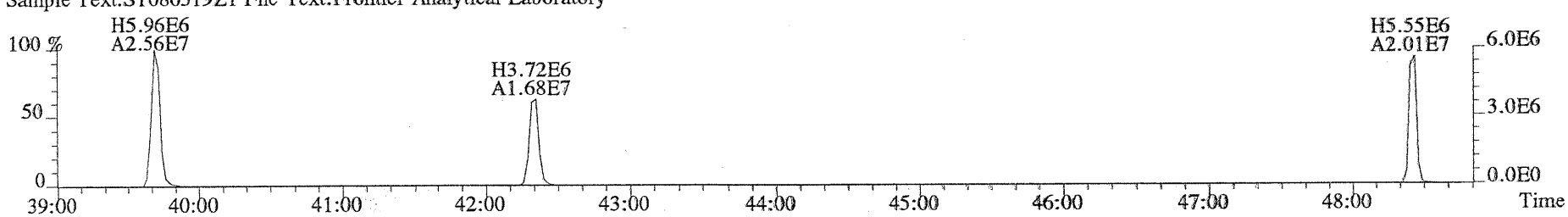
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



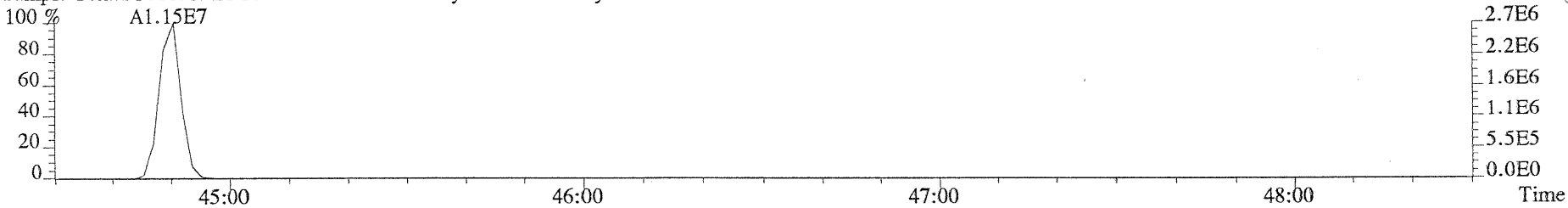
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



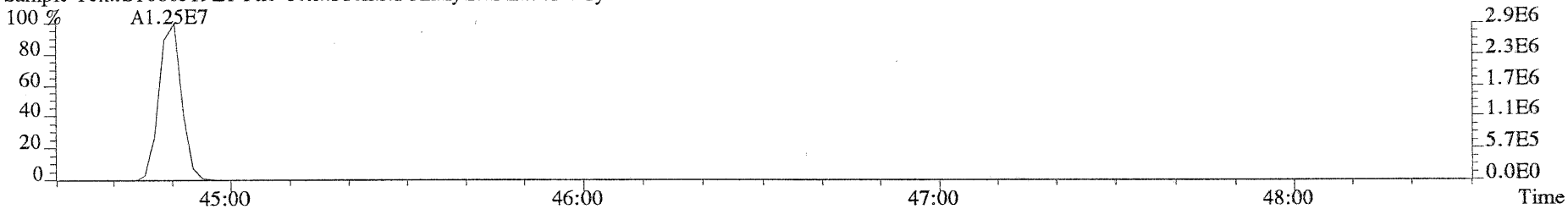
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



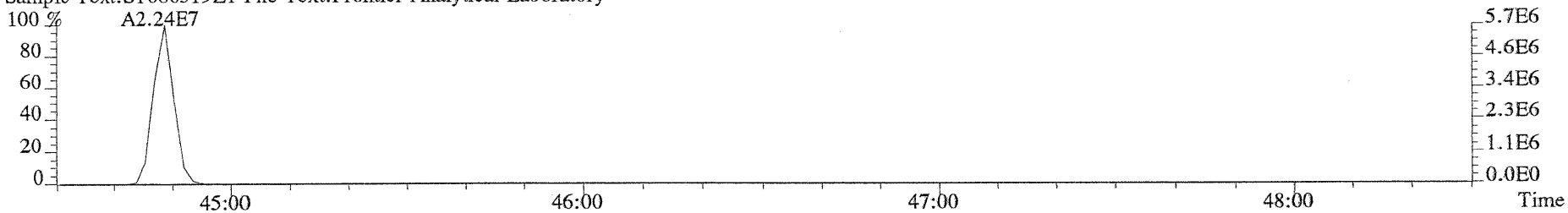
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



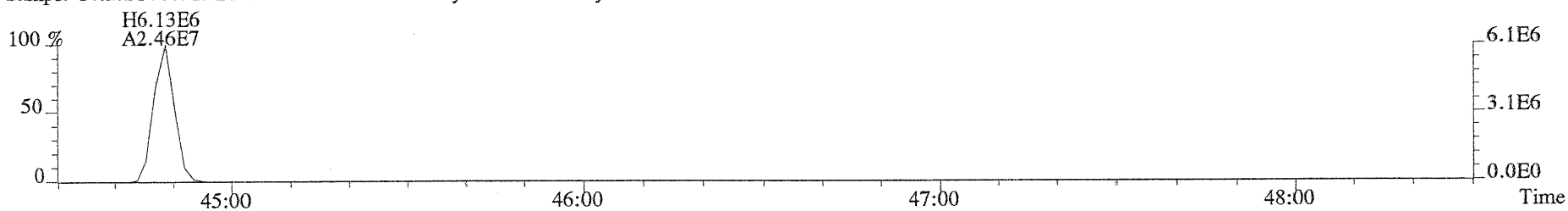
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



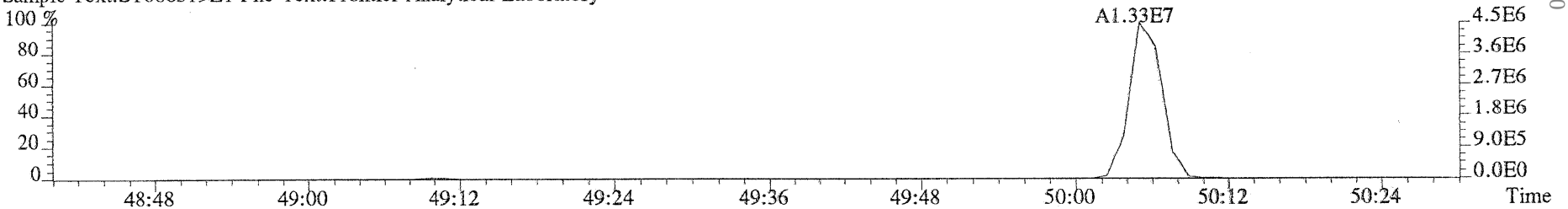
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



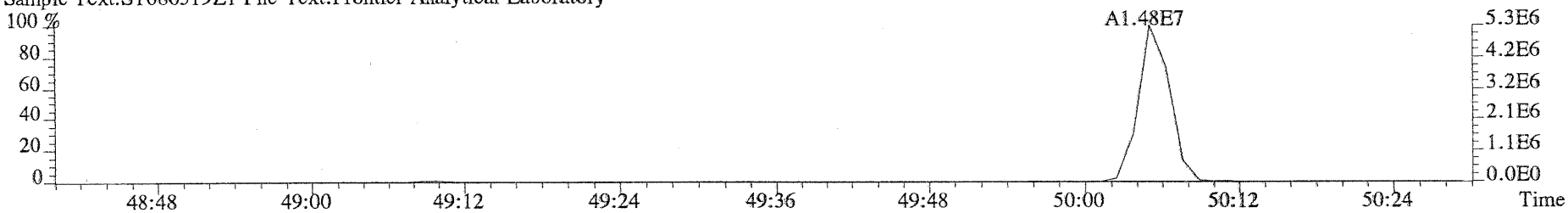
File:05AUG19Z #1-405 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



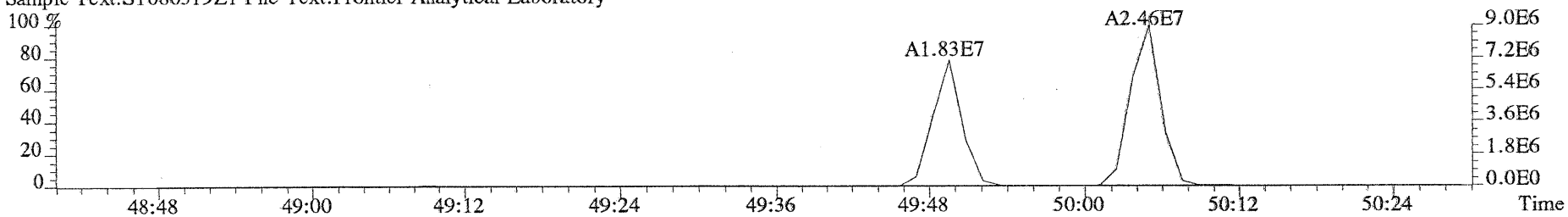
File:05AUG19Z #1-307 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



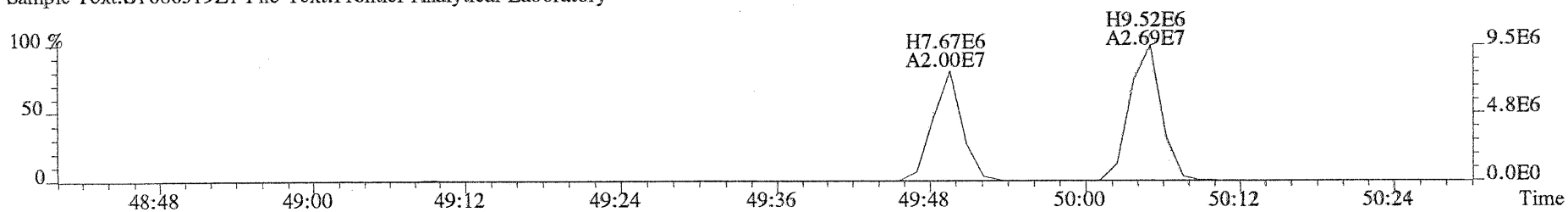
File:05AUG19Z #1-307 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



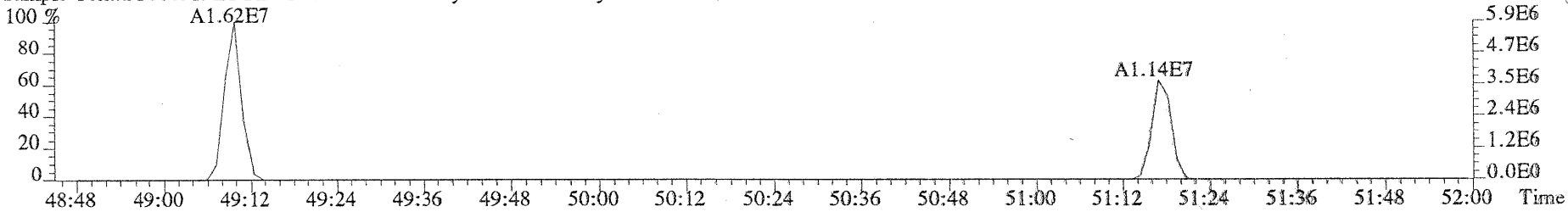
File:05AUG19Z #1-308 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



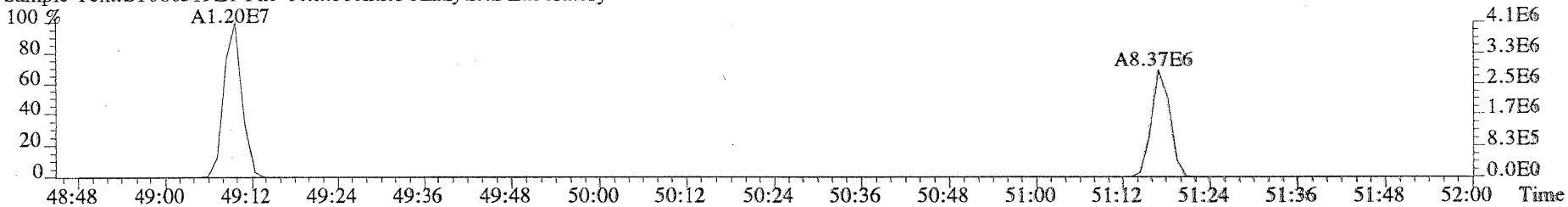
File:05AUG19Z #1-308 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



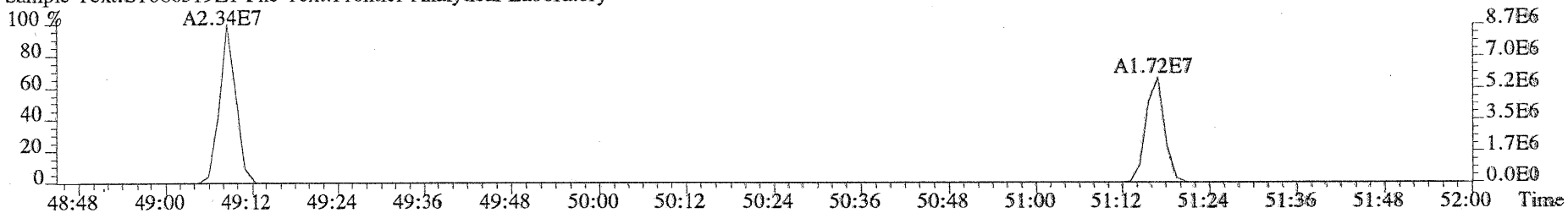
File:05AUG19Z #1-308 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



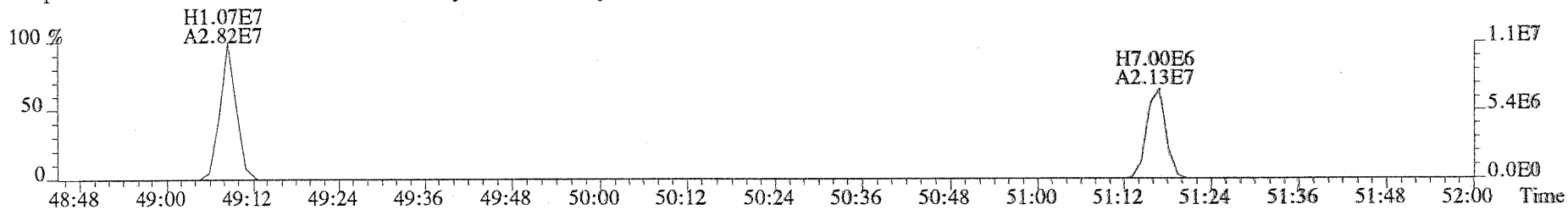
File:05AUG19Z #1-309 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



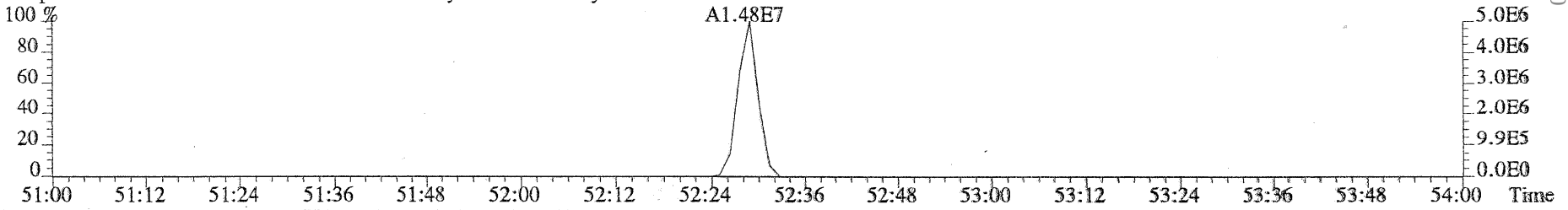
File:05AUG19Z #1-309 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



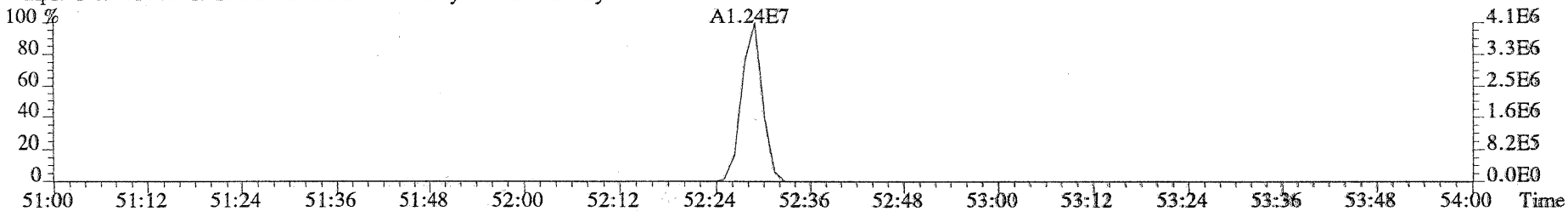
File:05AUG19Z #1-309 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



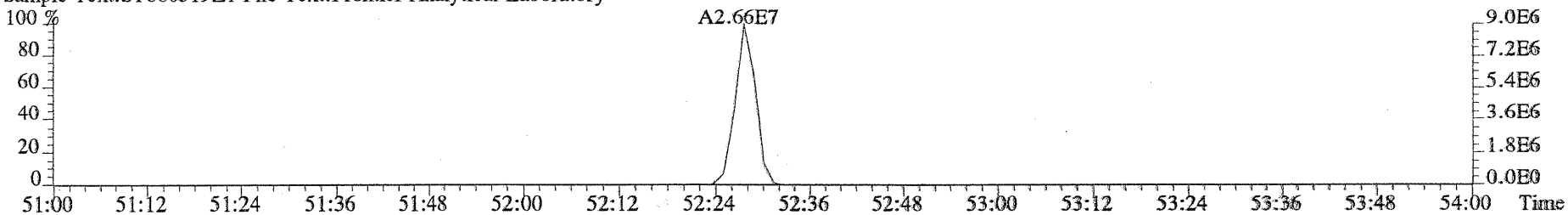
File:05AUG19Z #1-310 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



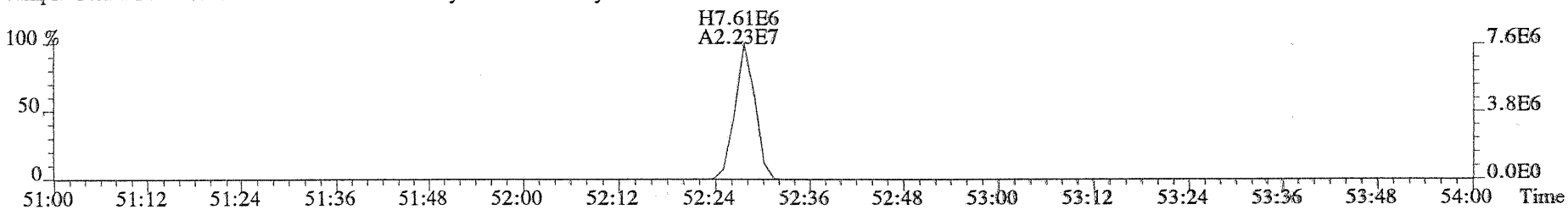
File:05AUG19Z #1-310 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory



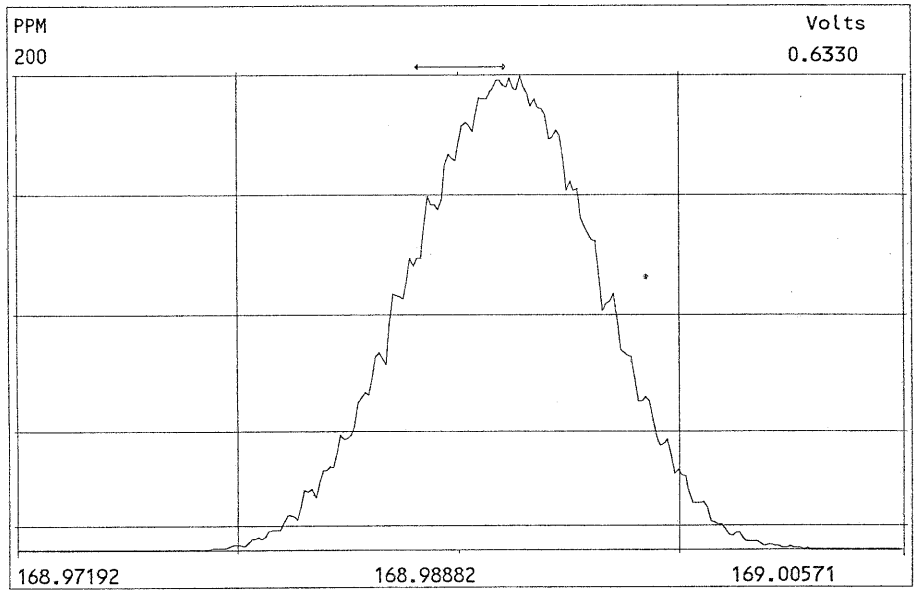
File:05AUG19Z #1-310 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory

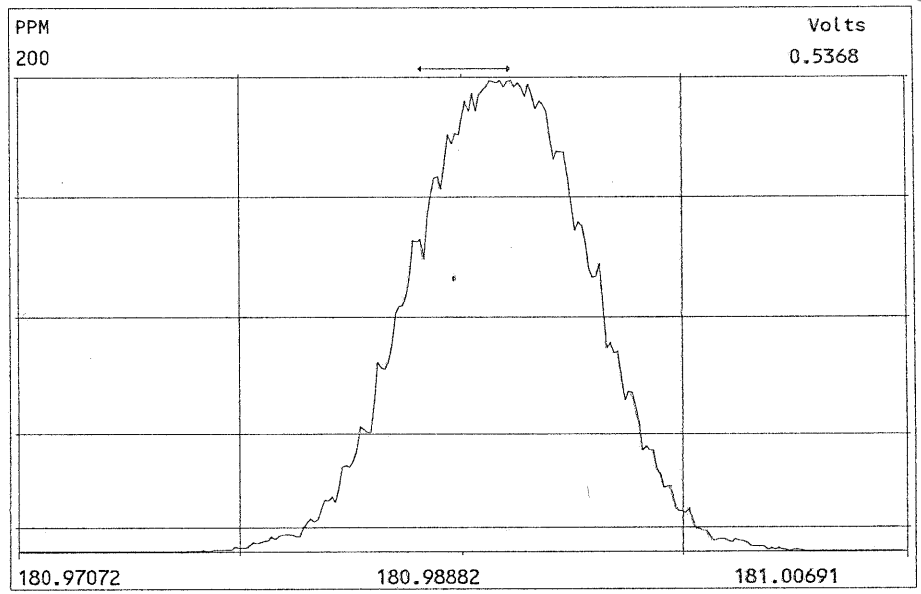


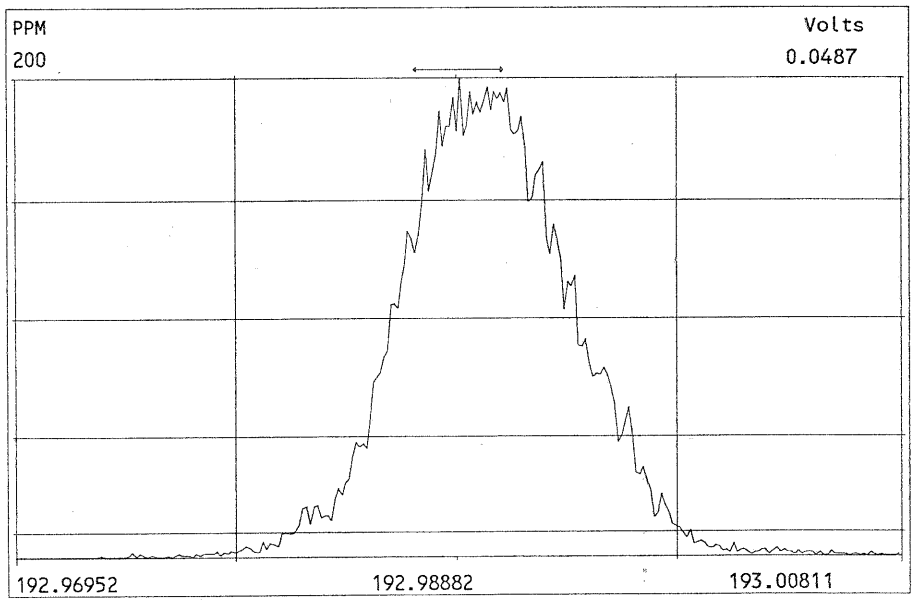
File:05AUG19Z #1-310 Acq: 5-AUG-2019 09:35:17 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z1 File Text:Frontier Analytical Laboratory

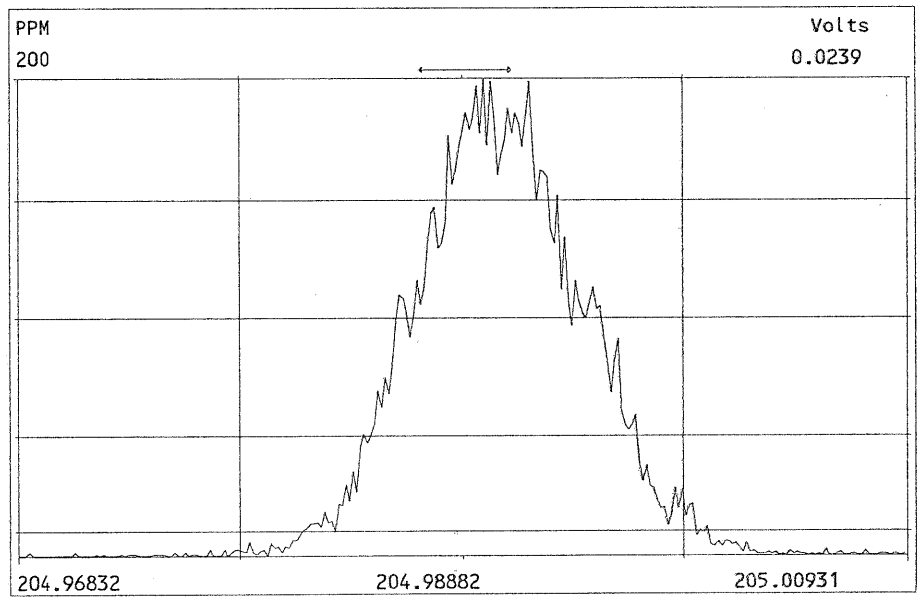


Peak Locate Examination: 6-AUG-2019:01:39 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

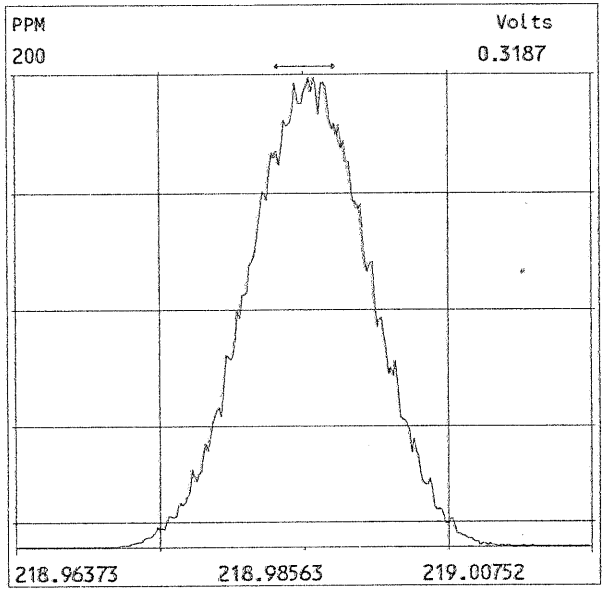


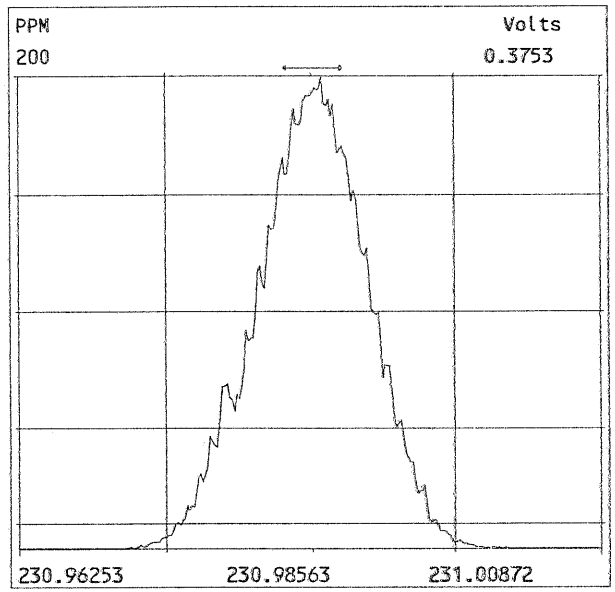


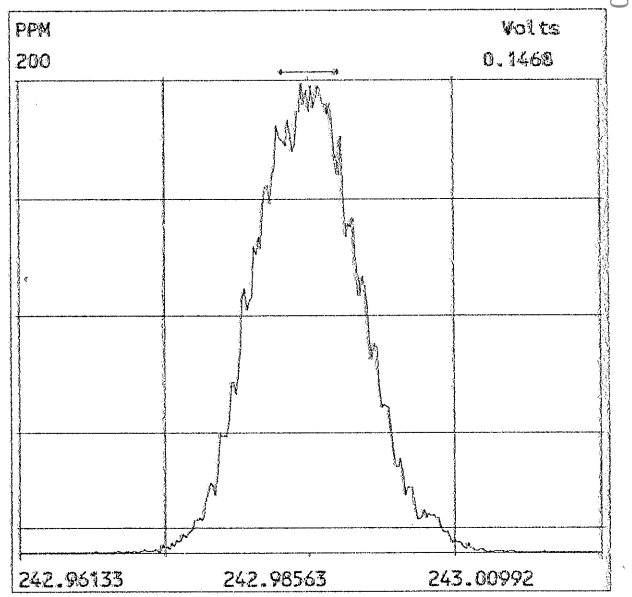


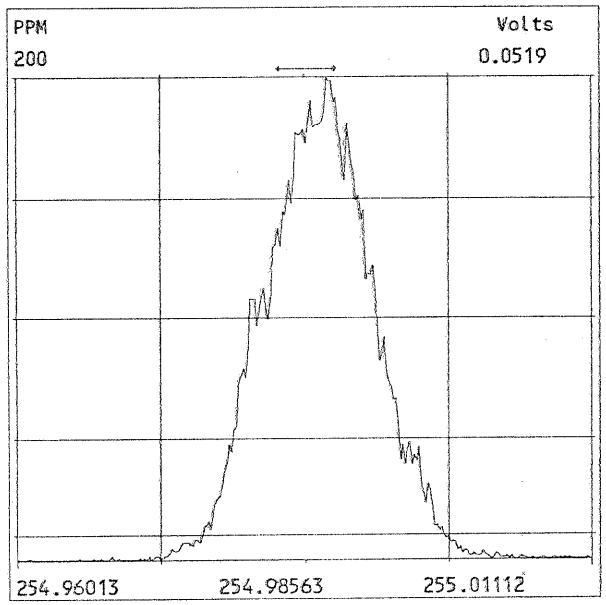


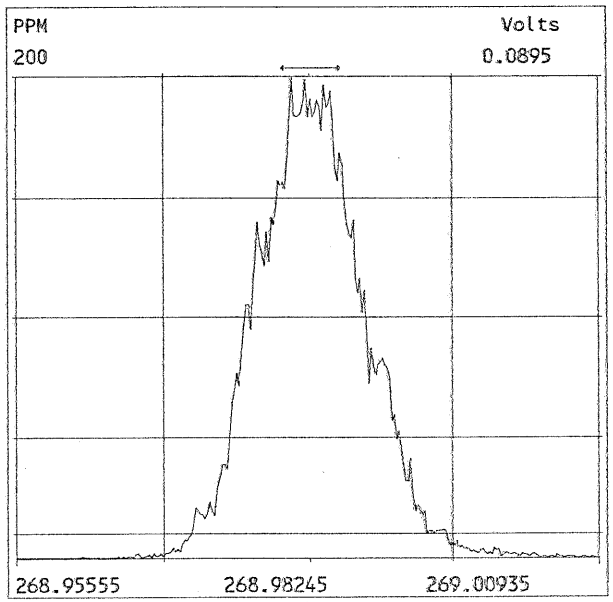
Peak Locate Examination: 6-AUG-2019:01:41 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

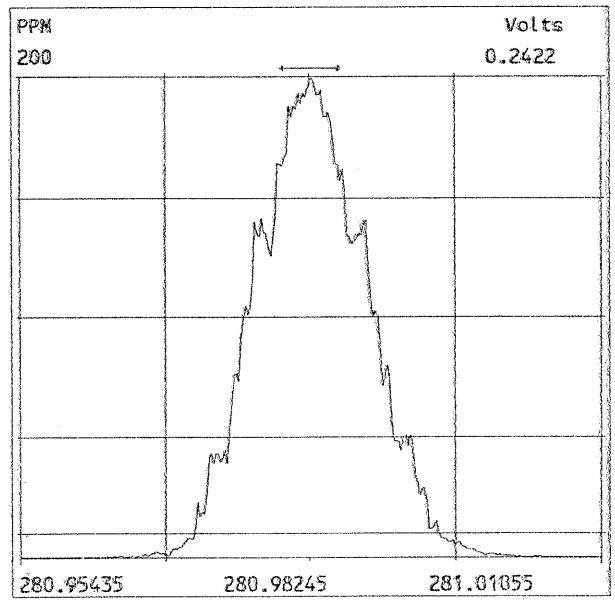




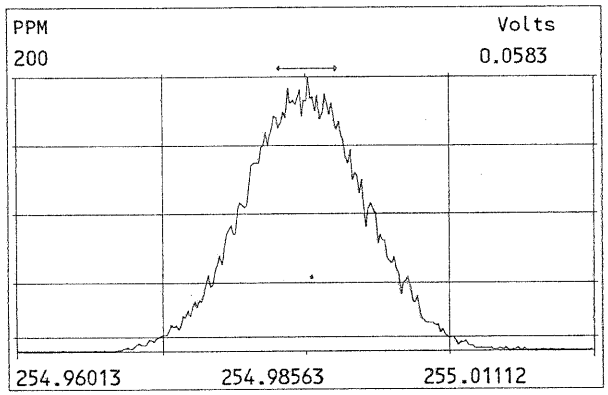


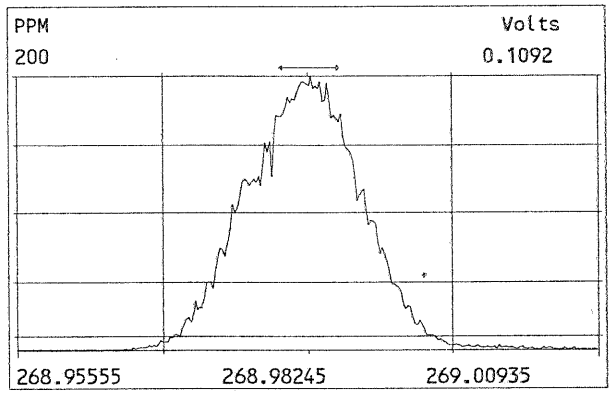


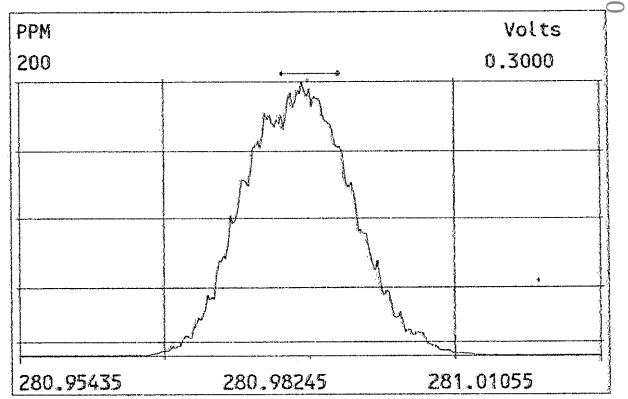


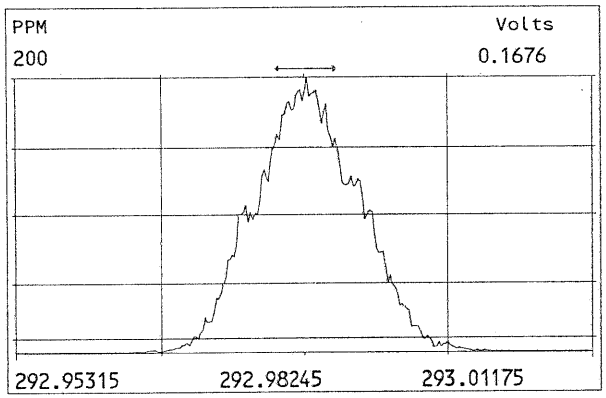


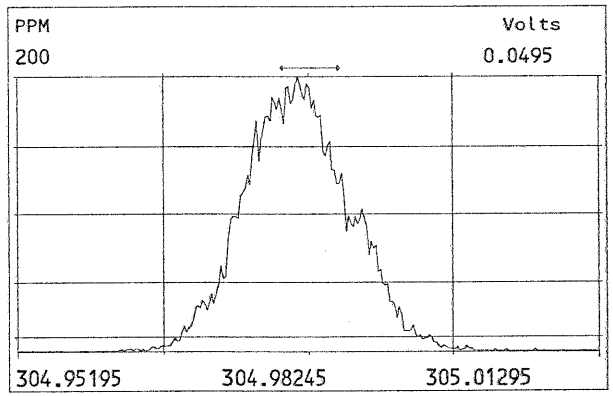
Peak Locate Examination: 6-AUG-2019:01:43 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

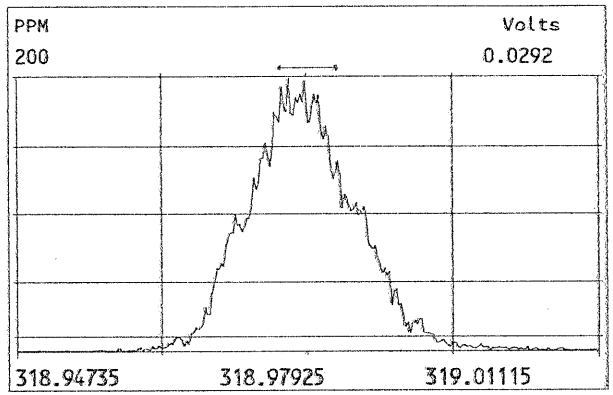


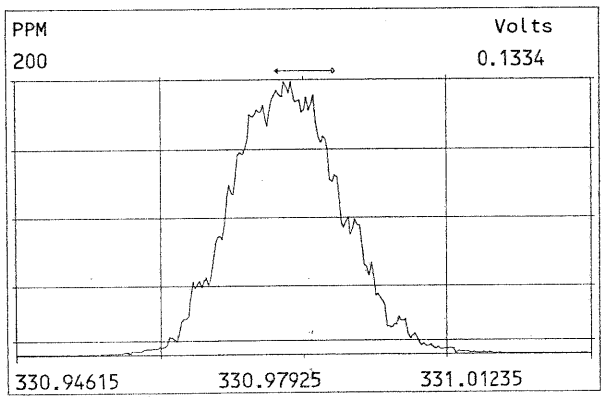


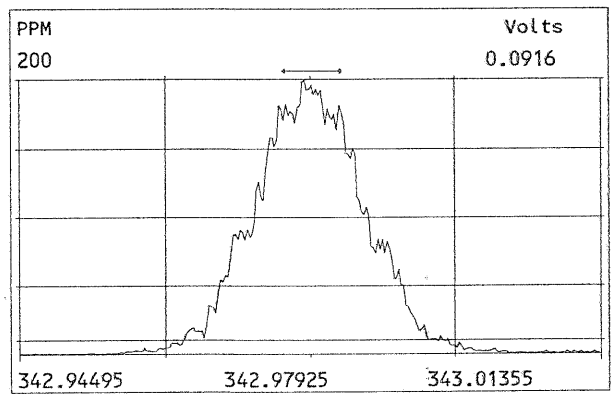




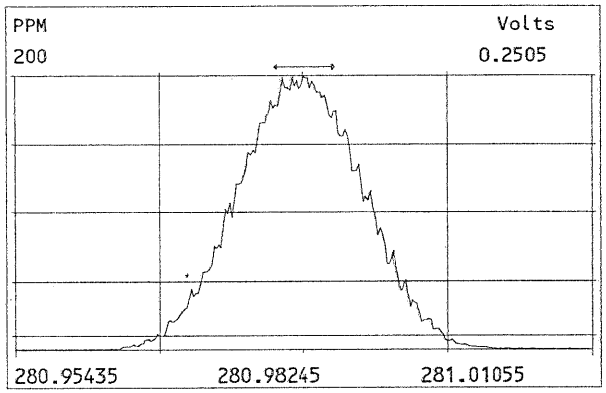


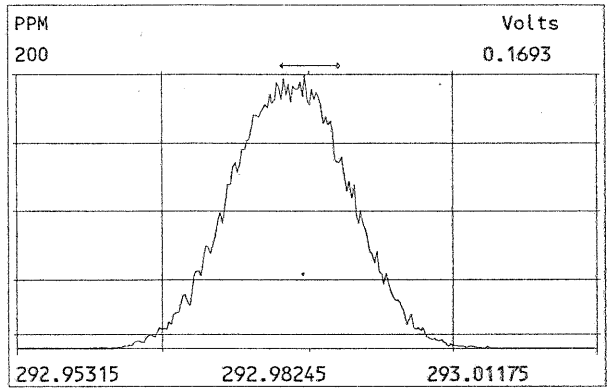


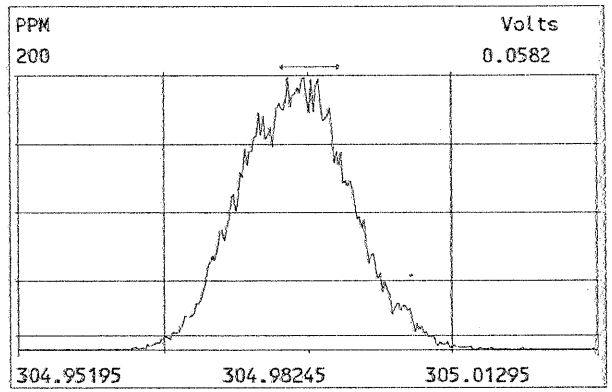


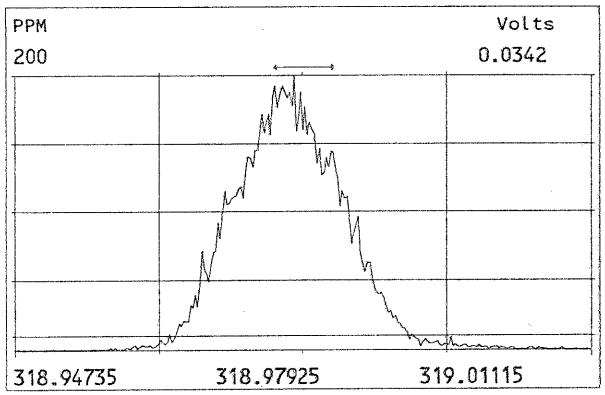


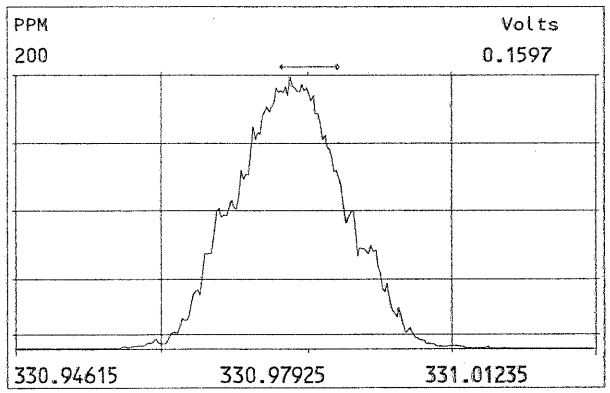
Peak Locate Examination: 6-AUG-2019:01:46 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

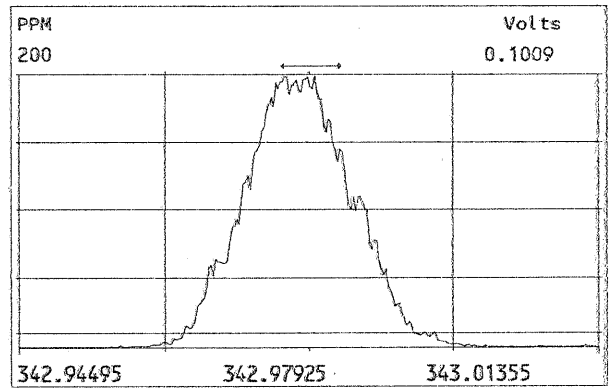


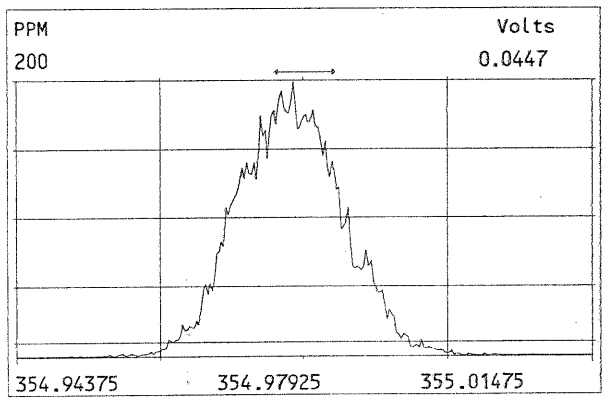


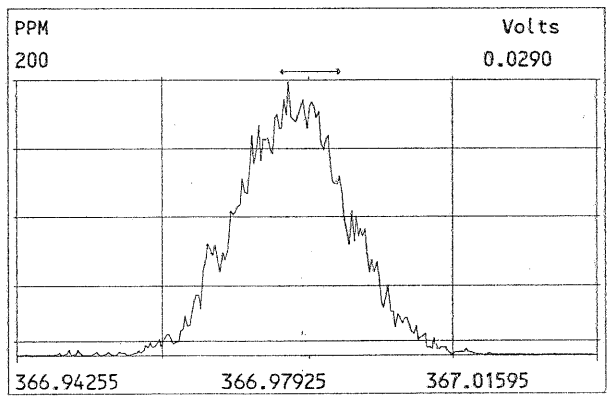


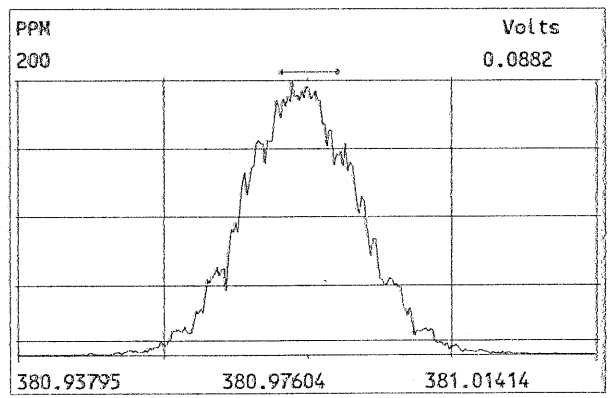




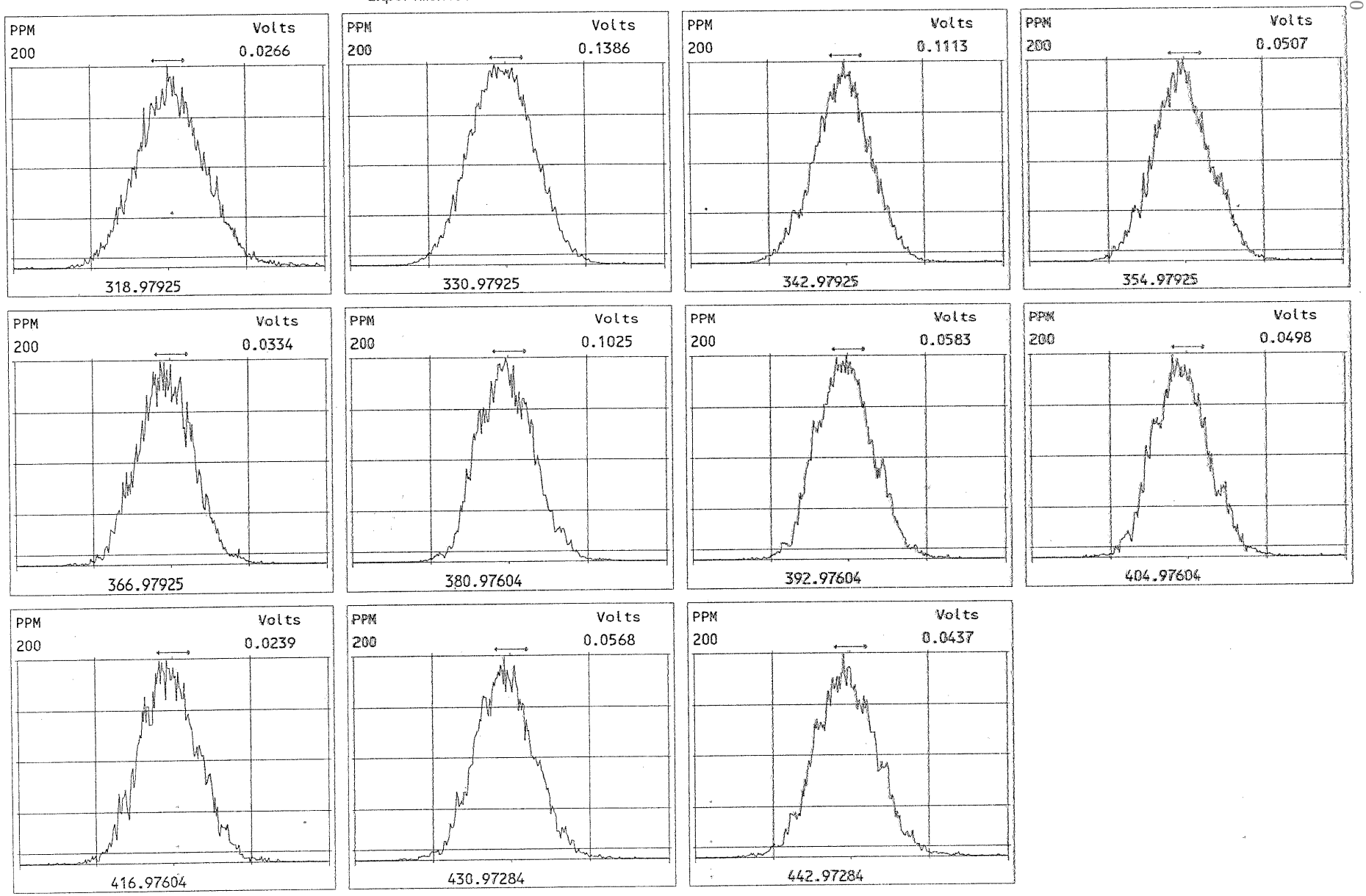




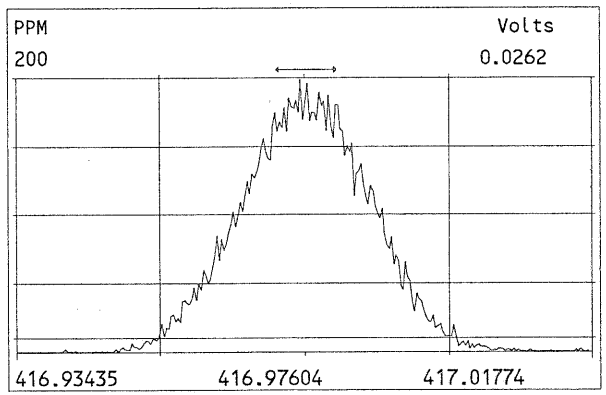


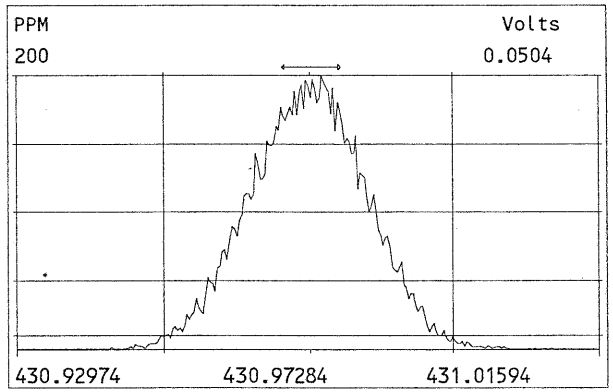


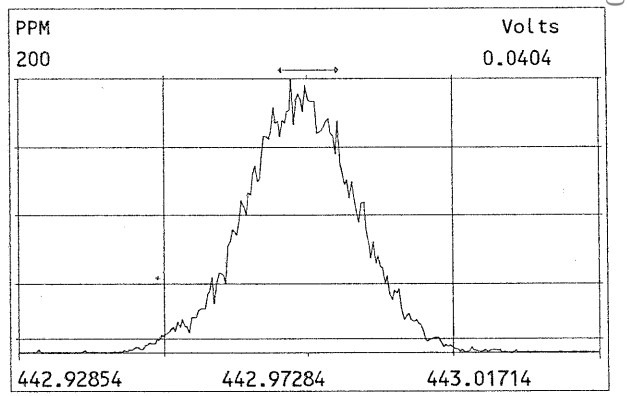
Peak Locate Examination: 6-AUG-2019:01:48 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

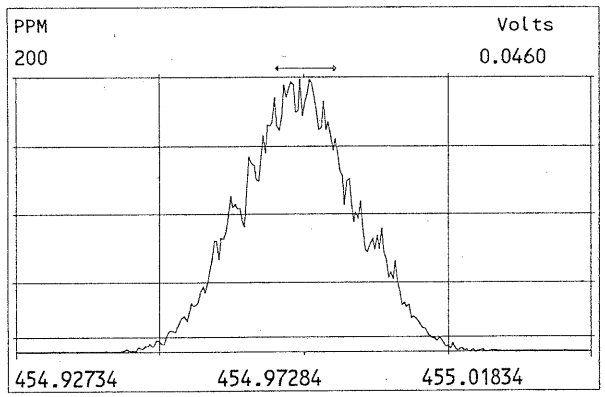


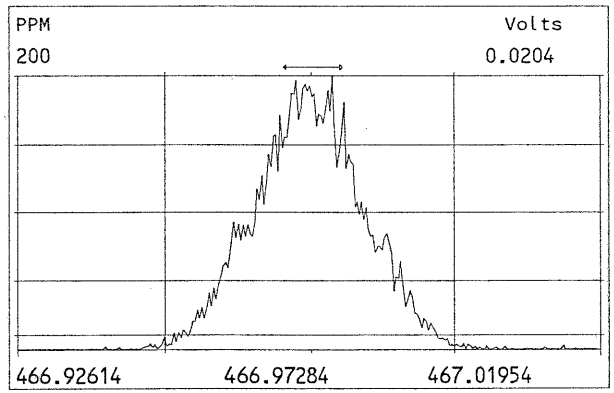
Peak Locate Examination: 6-AUG-2019:01:50 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

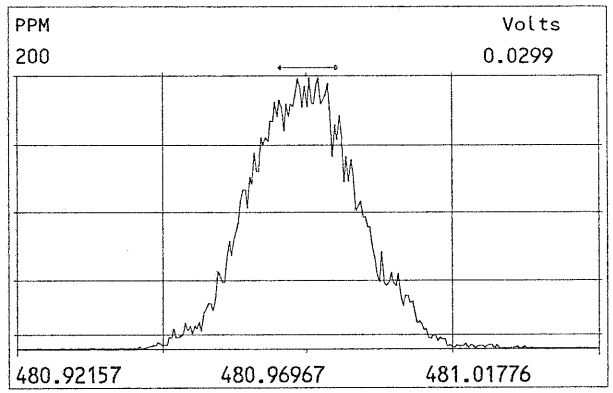


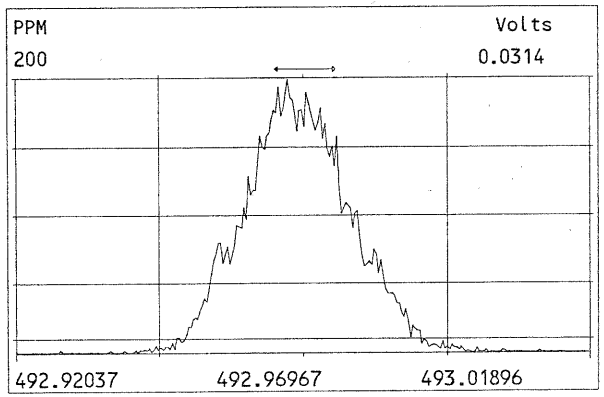


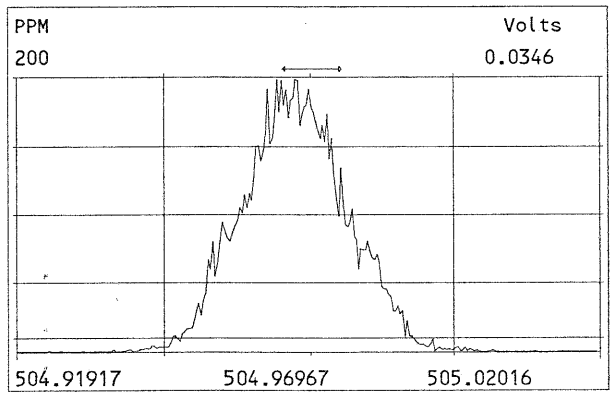


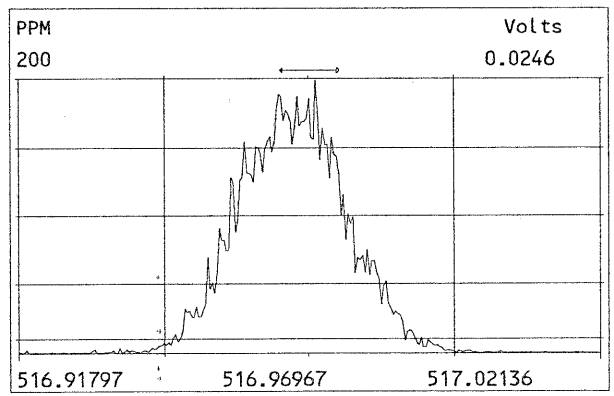












Cal: DAILY209FAL4-8-5-19

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				

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

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

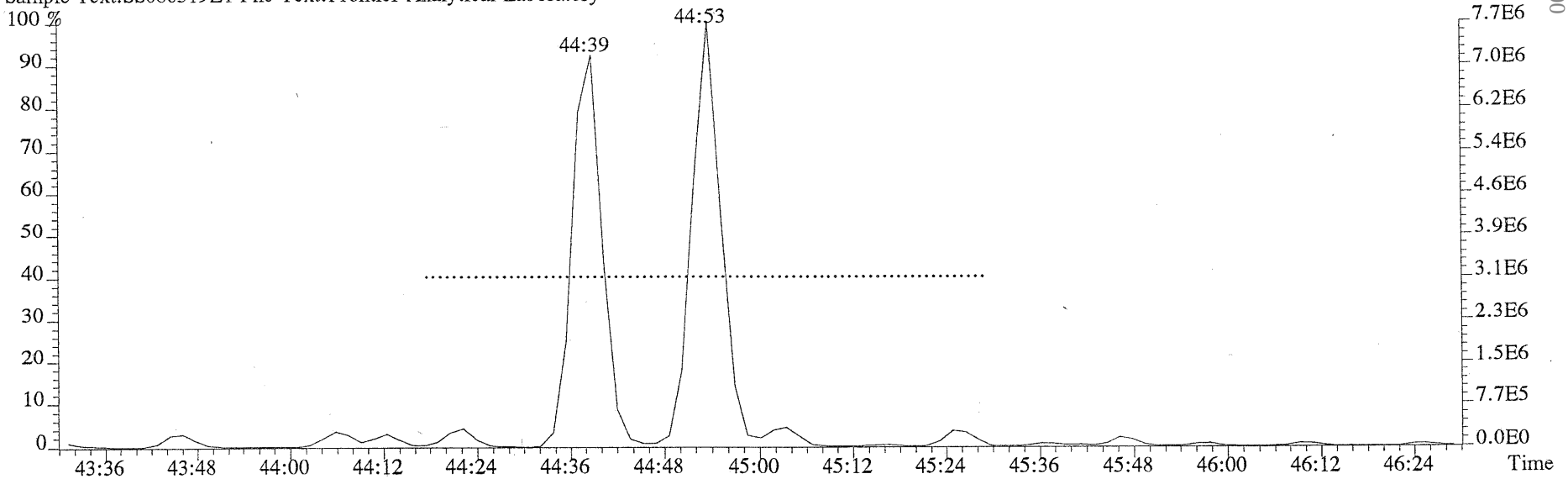
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	9.10e+07	3.14 y	14:33	1.19	49.8		2.50	-	-	*	
13C-PCB-1	1.54e+08	3.20 y	14:32	0.92	113		2.50				113
PCB-3	7.94e+07	3.09 y	16:59	1.22	48.5		2.50	-	-	*	
13C-PCB-3	1.34e+08	3.21 y	16:58	0.87	104		2.50				104
PCB-4	6.11e+07	1.58 y	18:13	1.25	43.2		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				

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

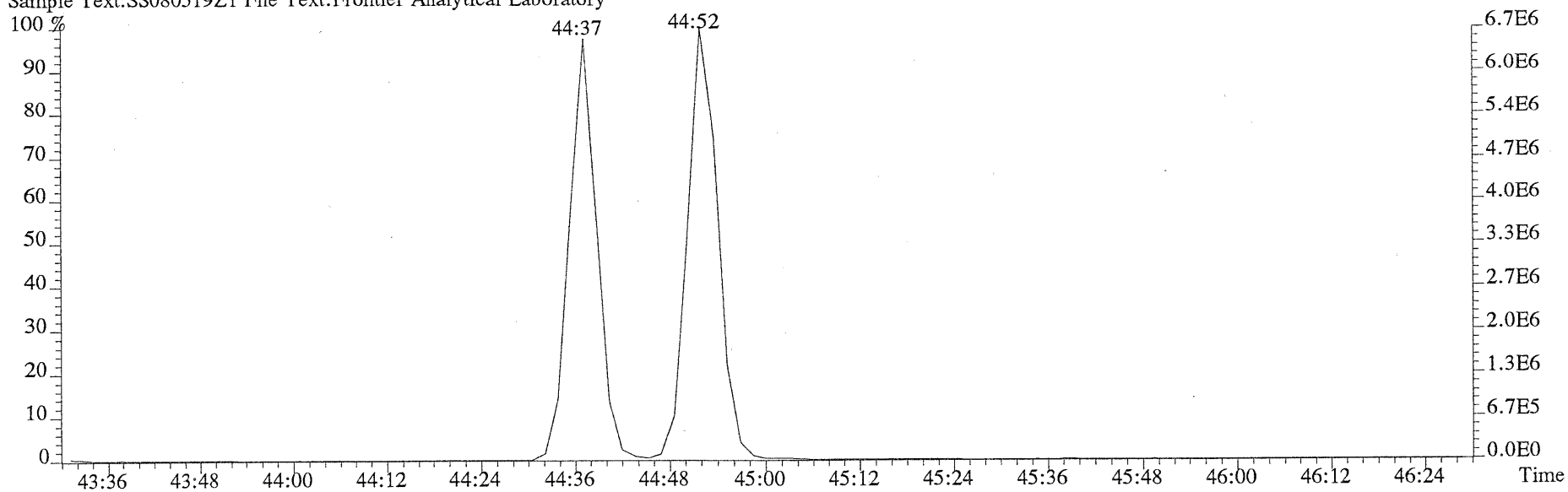
PCB-205	4.06e+07	0.89 y	50:05	1.07	50.7	2.50	-	-	*	
13C-PCB-205	7.48e+07	0.90 y	50:05	1.28	101	2.50				101
PCB-208	3.95e+07	1.33 y	49:08	1.06	49.3	2.50	-	-	*	
13C-PCB-208	7.54e+07	0.83 y	49:08	1.22	108	2.50				108
PCB-206	2.90e+07	1.36 y	51:17	1.06	49.2	2.50	-	-	*	
13C-PCB-206	5.55e+07	0.81 y	51:15	0.91	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

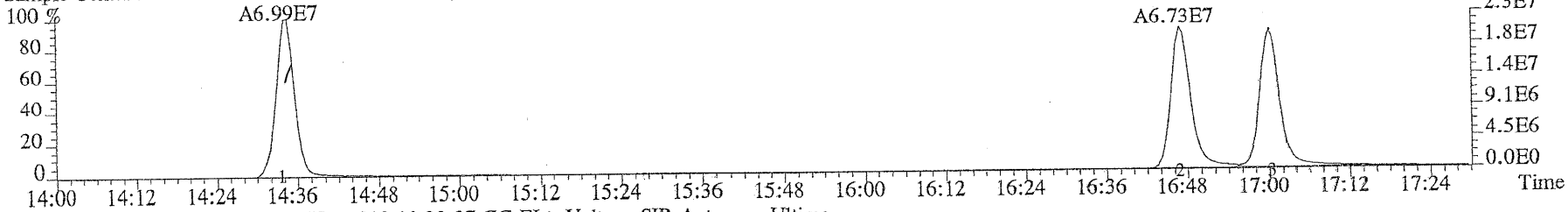
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



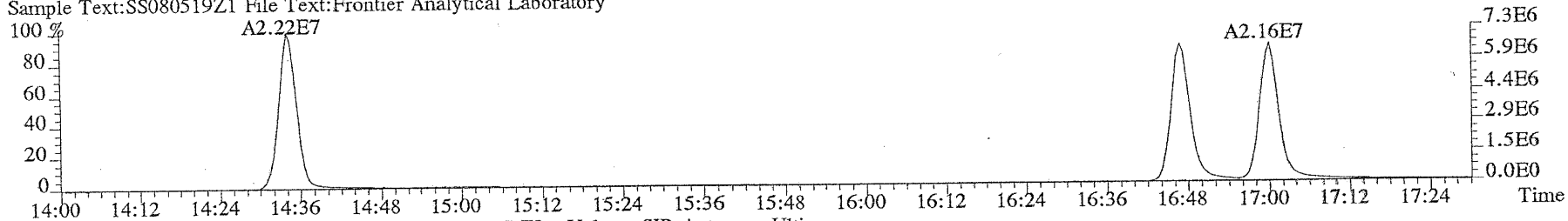
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



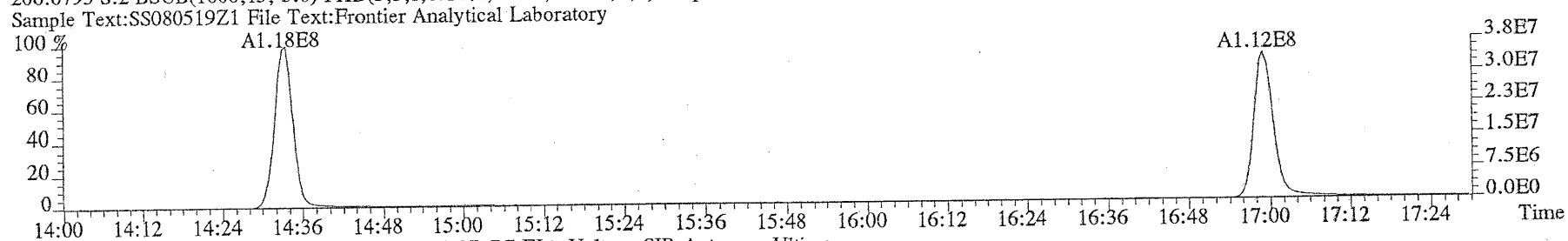
File:05AUG19Z #1-783 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



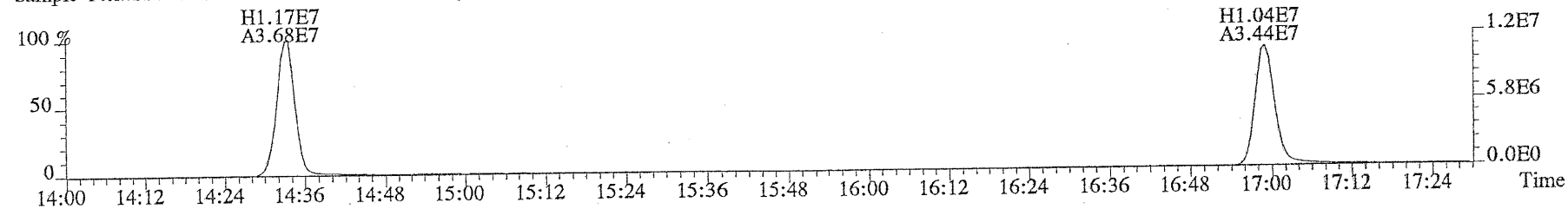
File:05AUG19Z #1-783 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



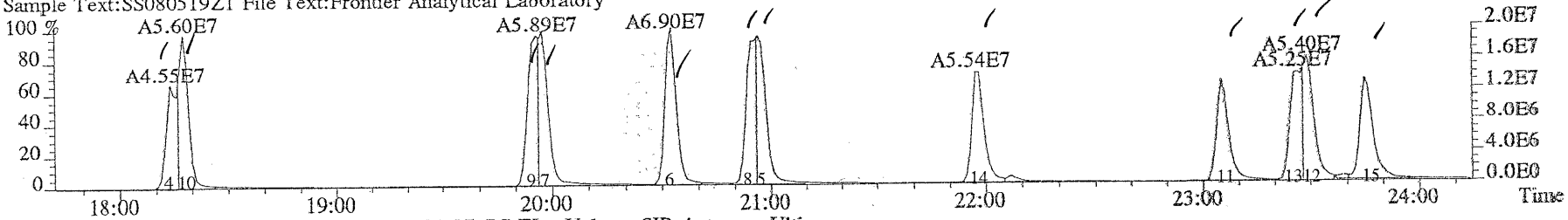
File:05AUG19Z #1-783 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



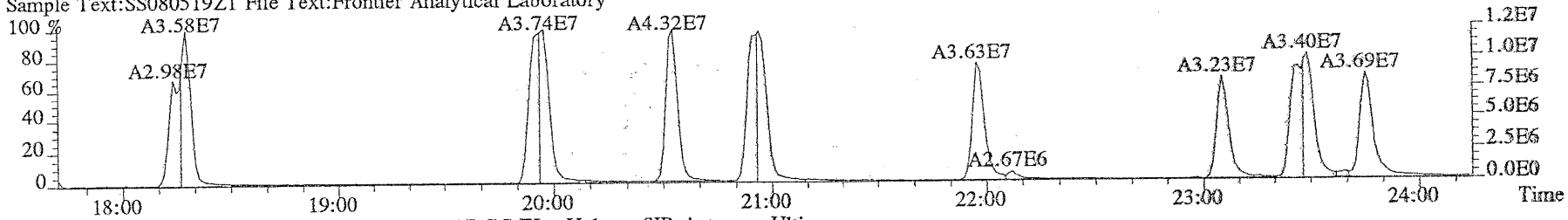
File:05AUG19Z #1-783 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



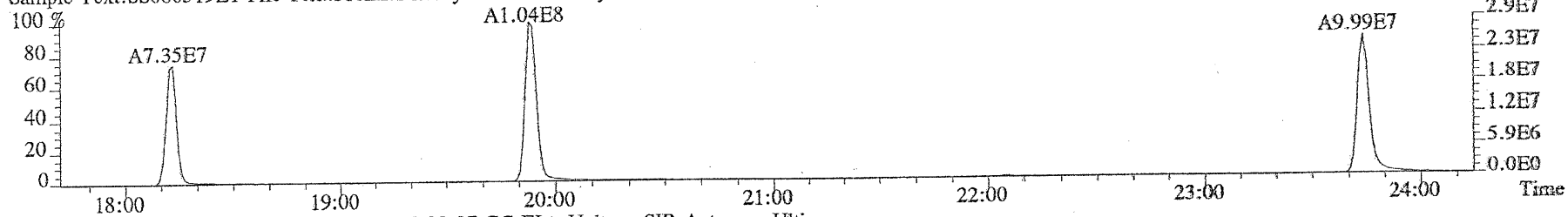
File:05AUG19Z #1-520 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



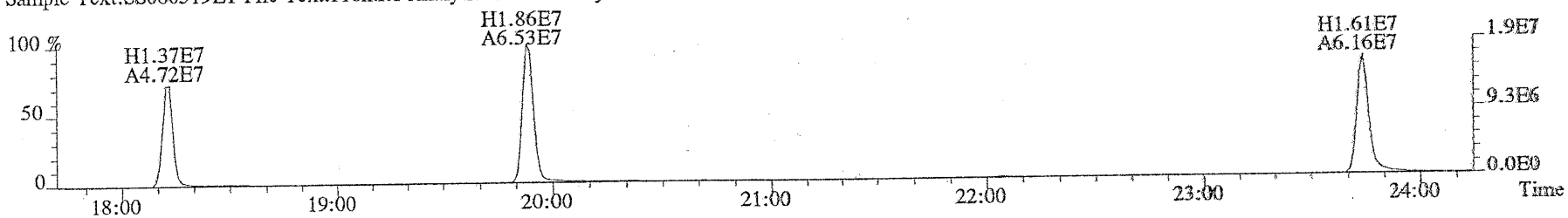
File:05AUG19Z #1-520 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



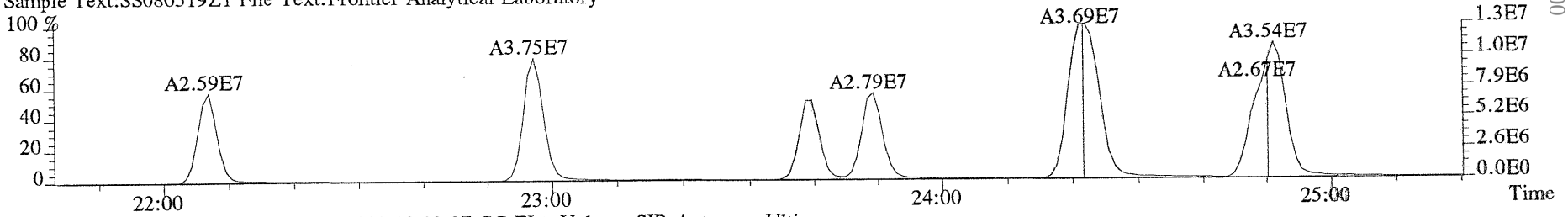
File:05AUG19Z #1-520 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



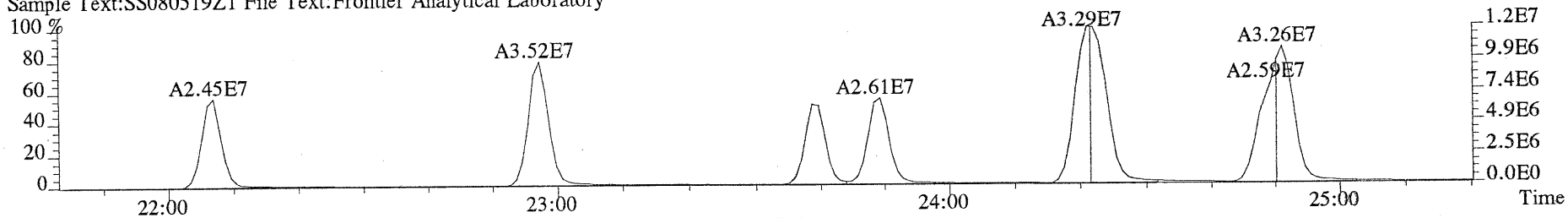
File:05AUG19Z #1-520 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



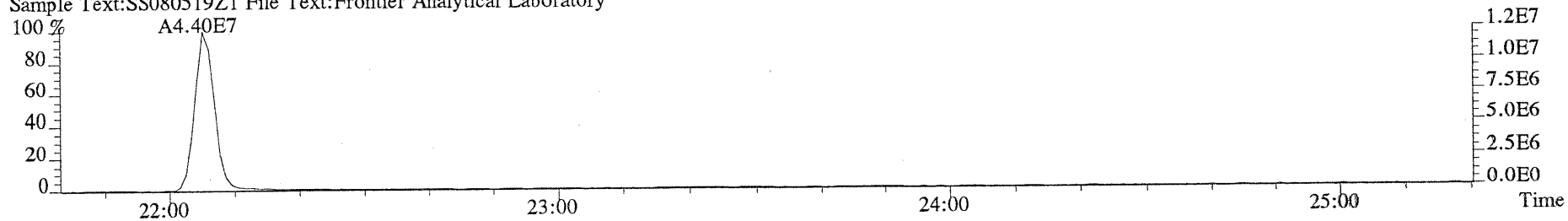
File:05AUG19Z #1-520 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



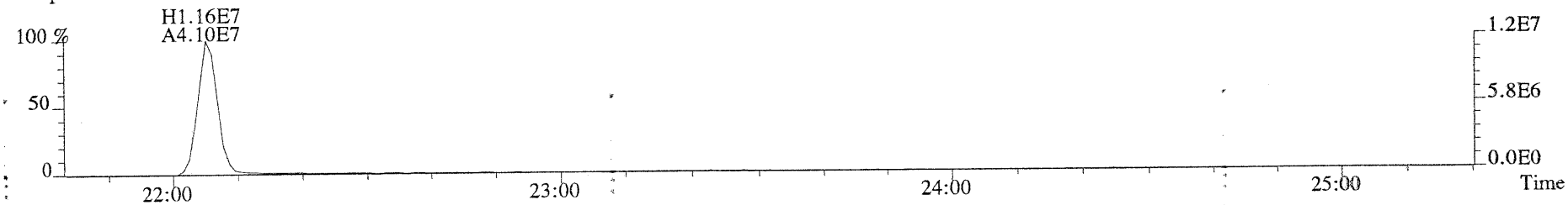
File:05AUG19Z #1-520 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



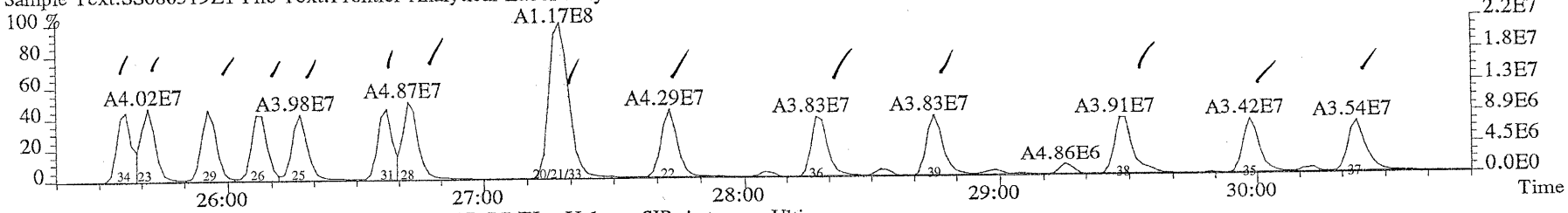
File:05AUG19Z #1-520 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



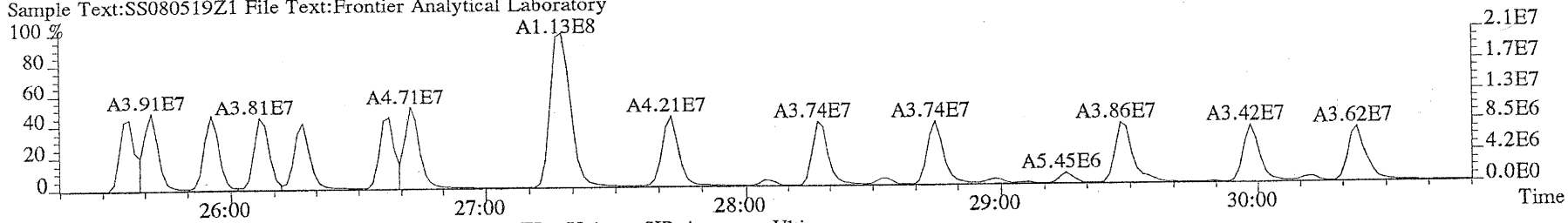
File:05AUG19Z #1-520 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



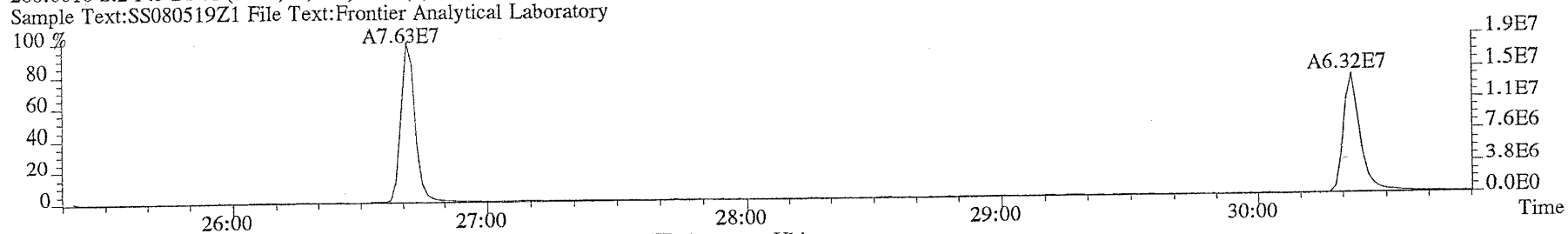
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



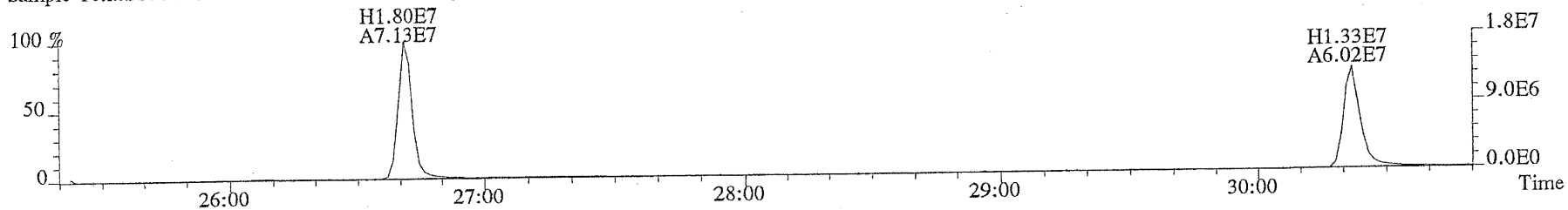
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



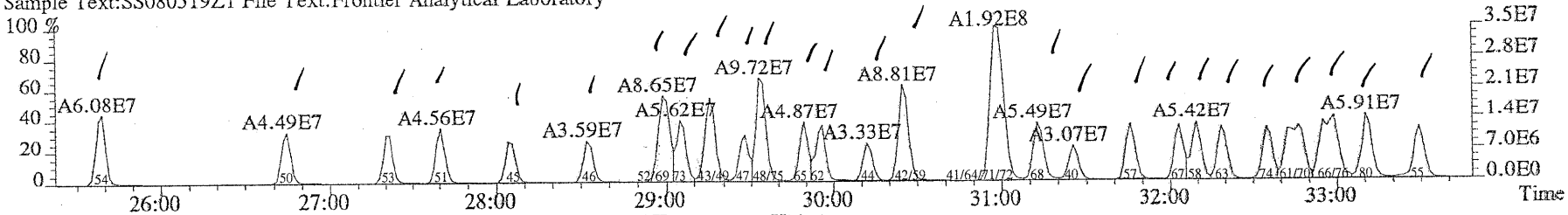
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



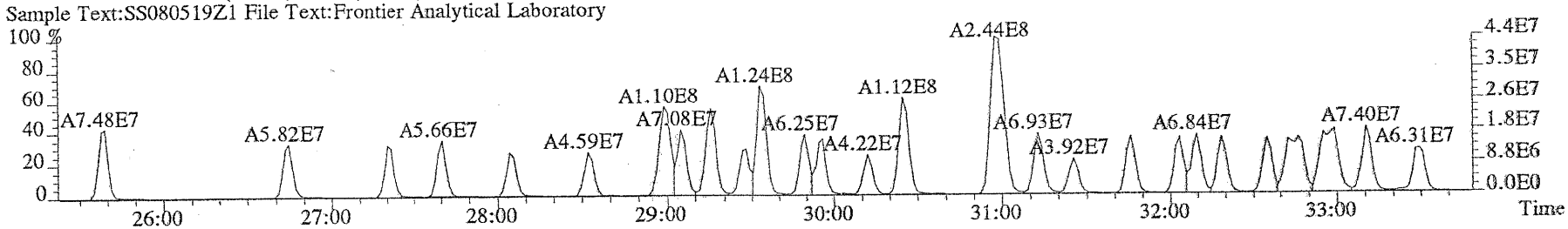
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



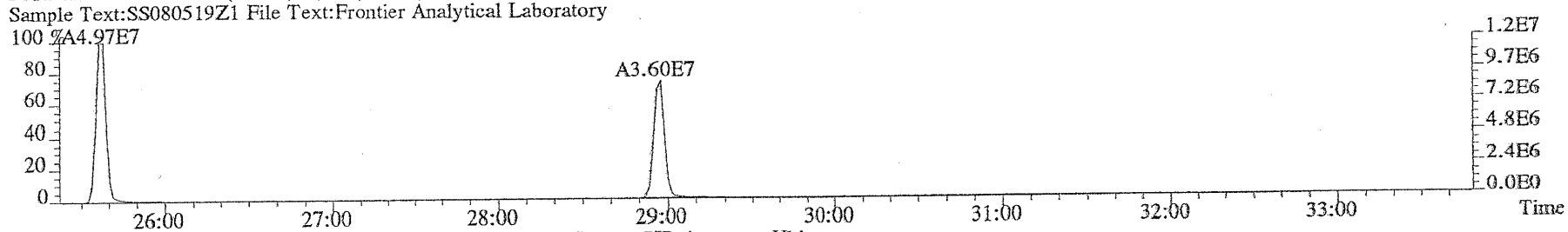
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



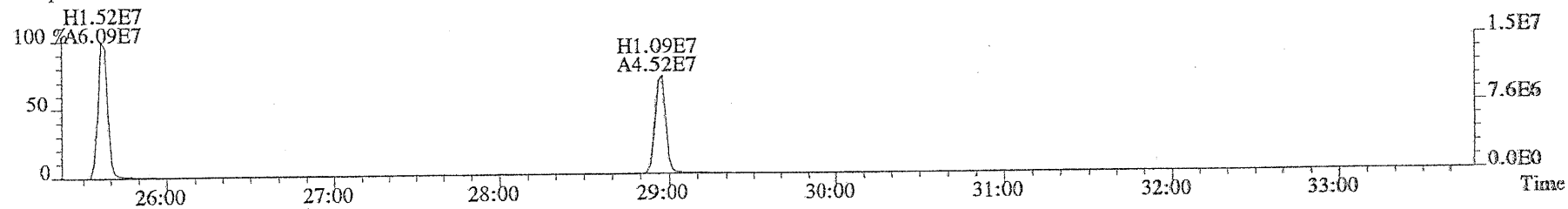
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



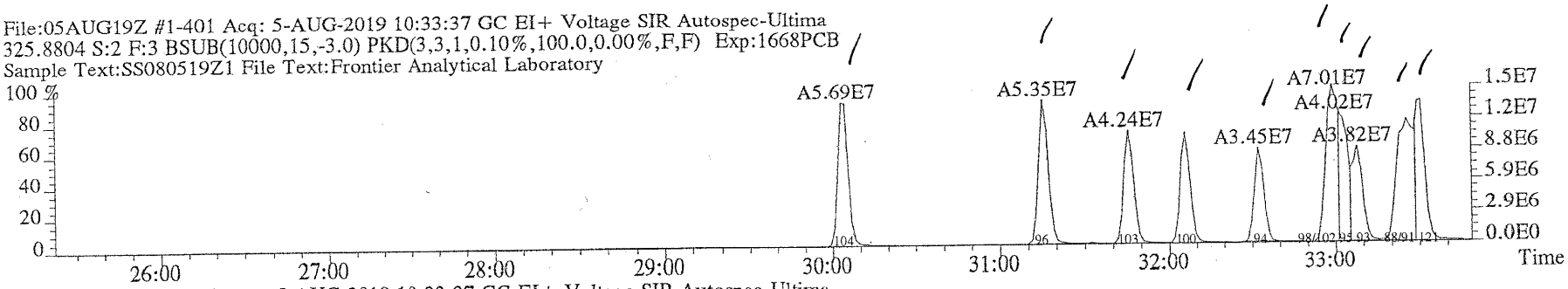
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



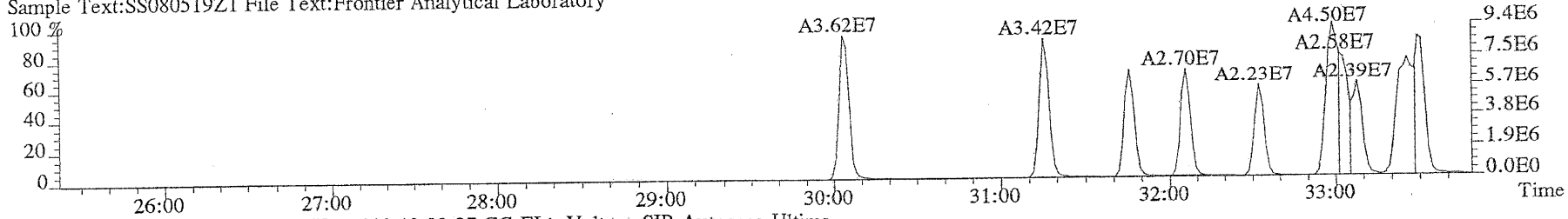
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



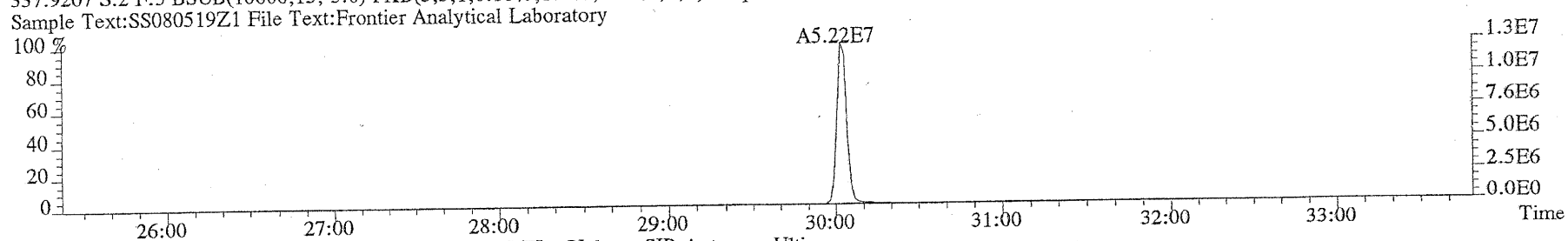
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



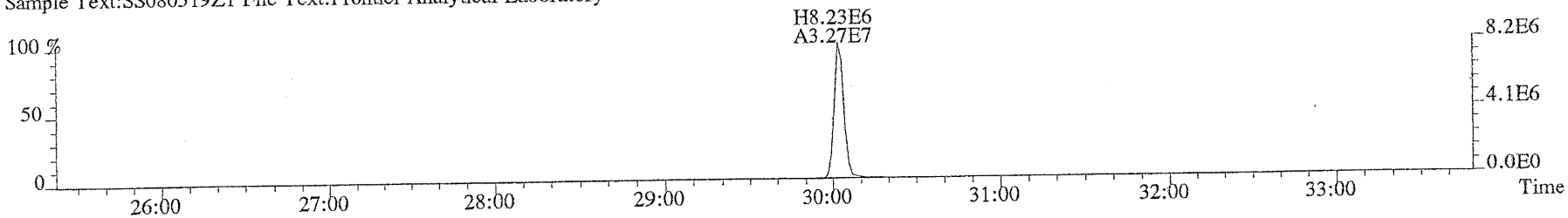
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



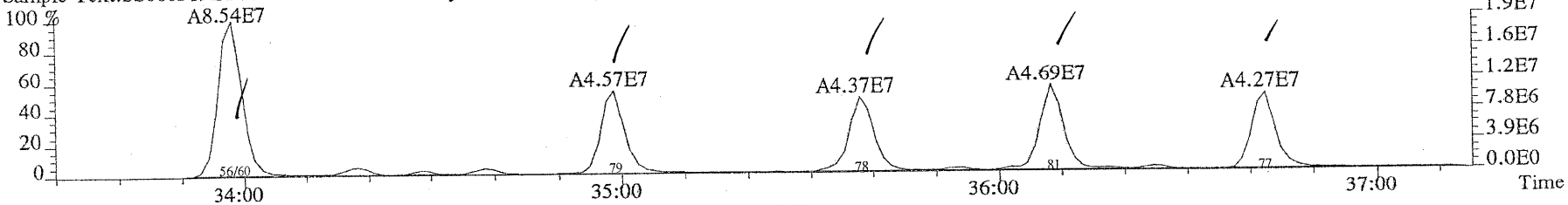
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



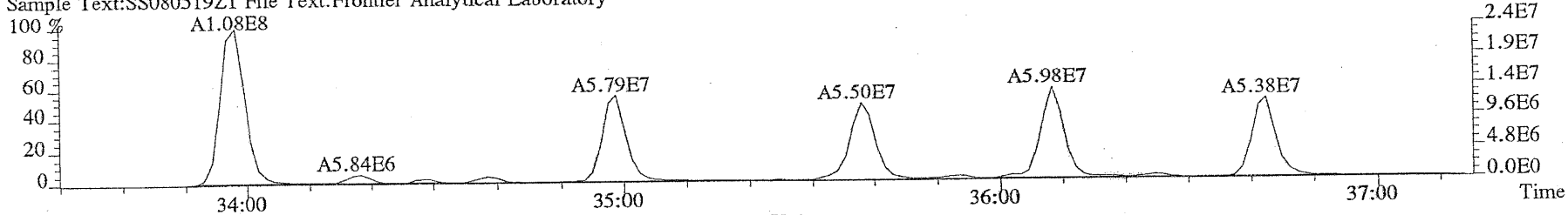
File:05AUG19Z #1-401 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



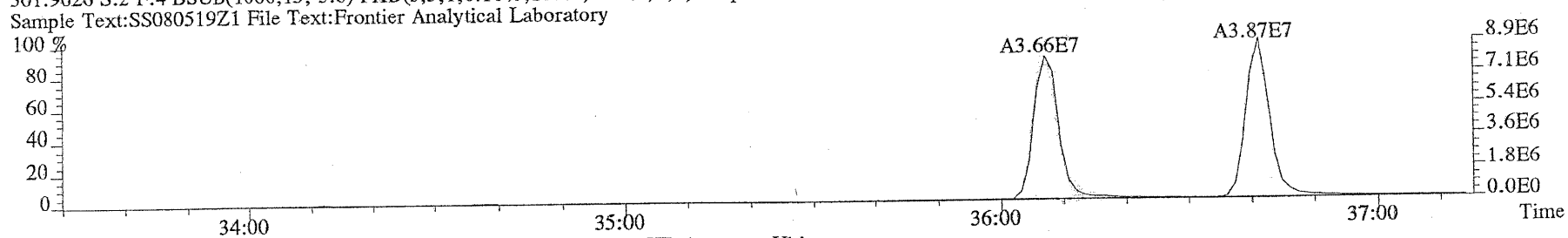
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



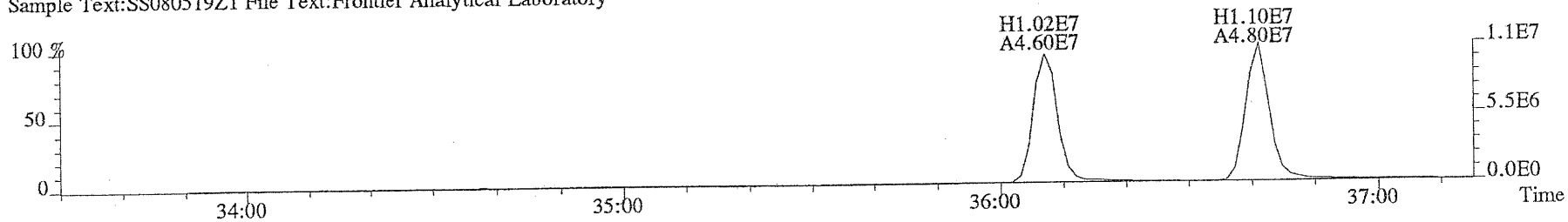
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



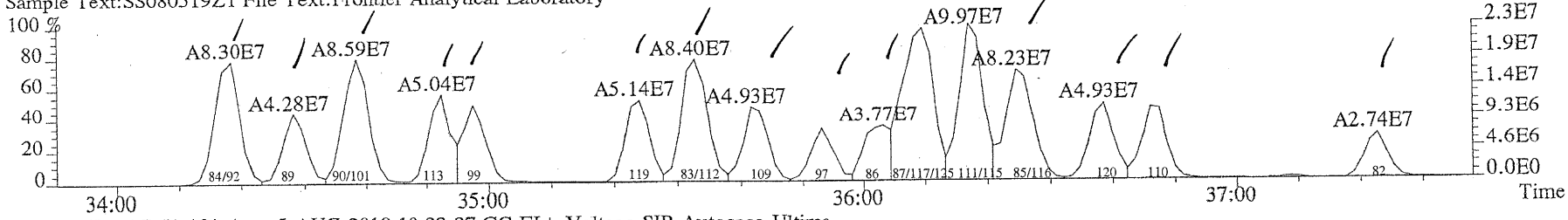
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



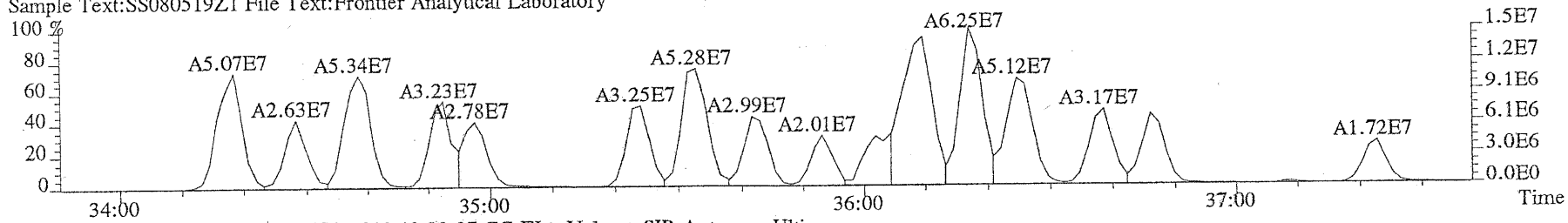
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



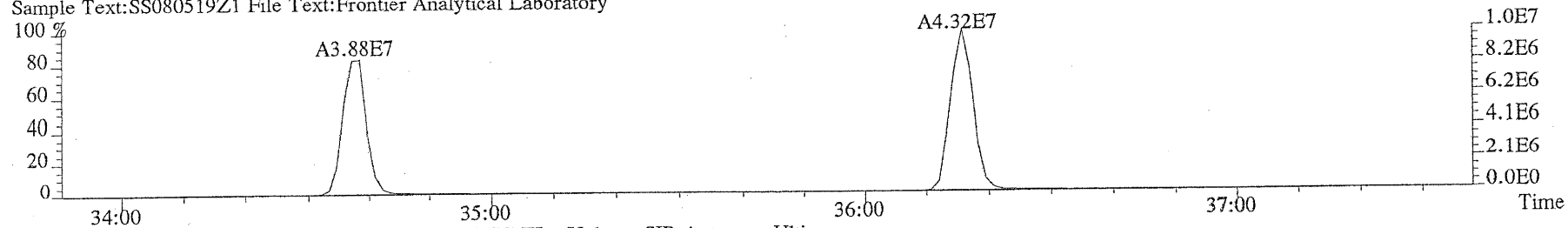
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



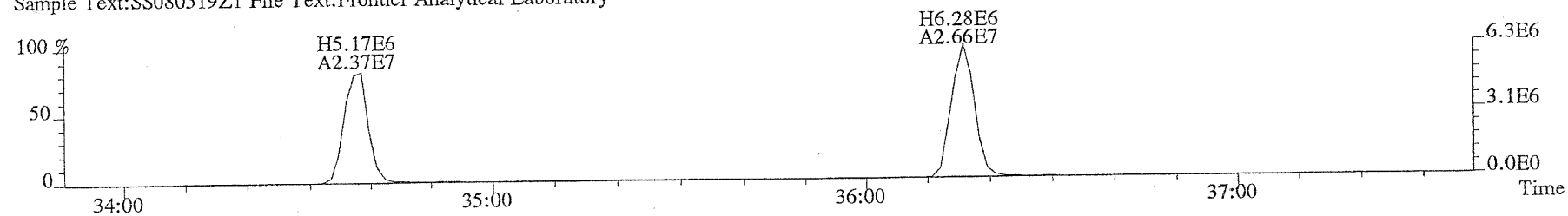
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



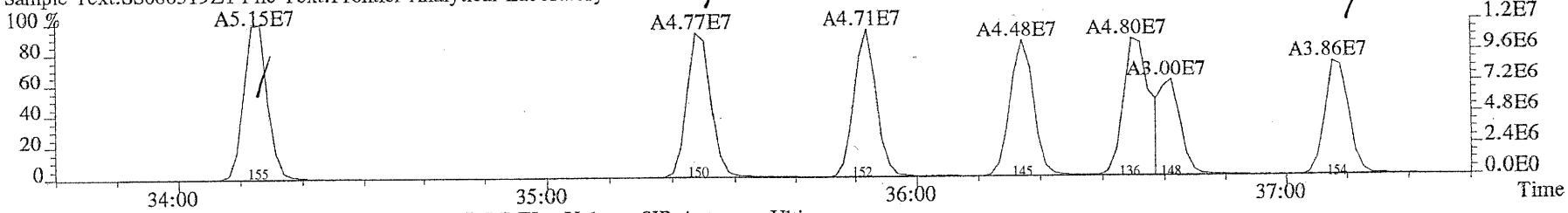
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



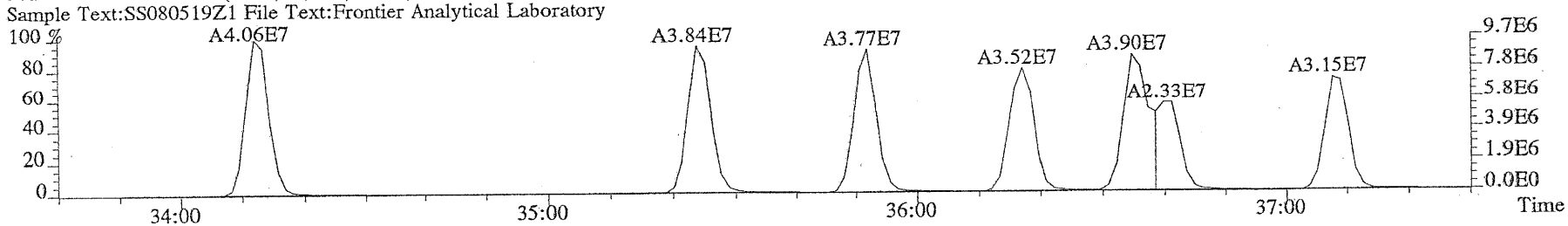
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



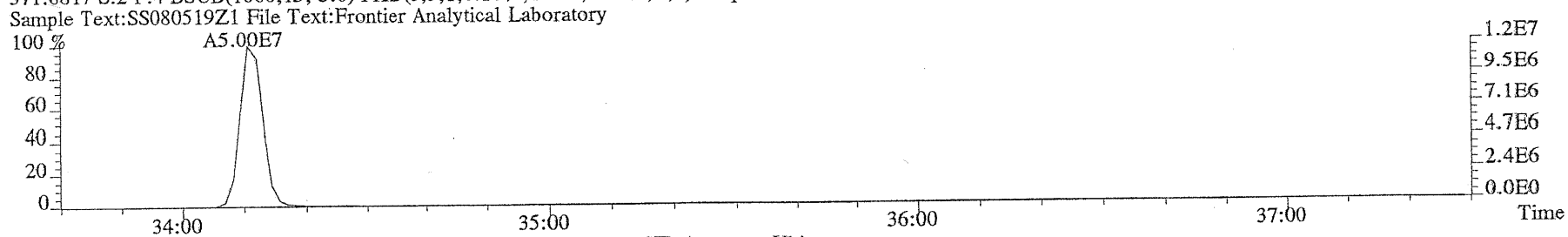
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



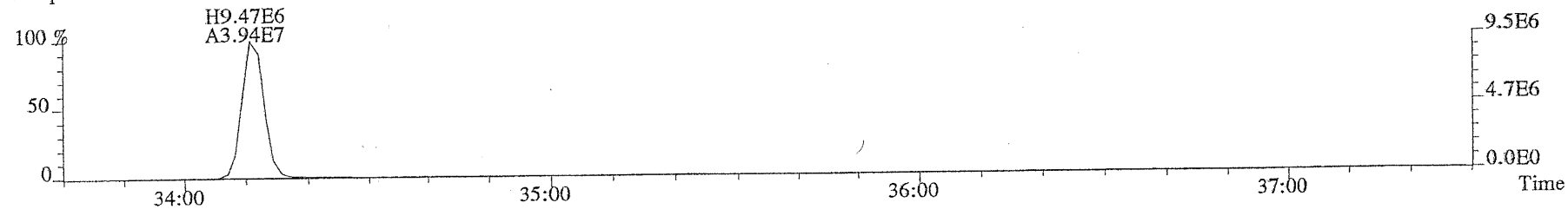
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



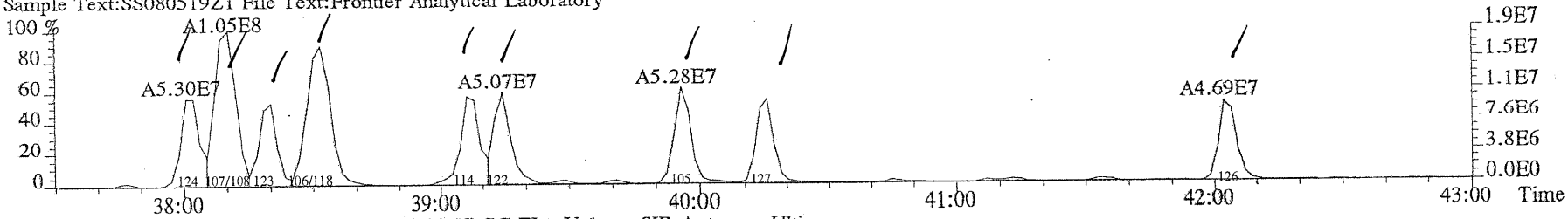
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



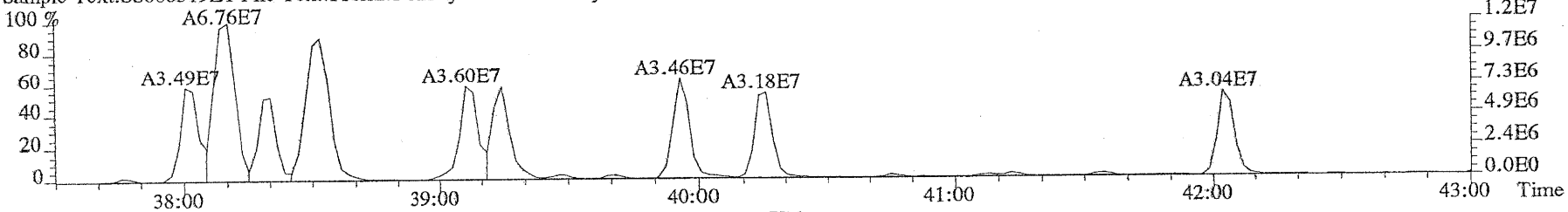
File:05AUG19Z #1-181 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



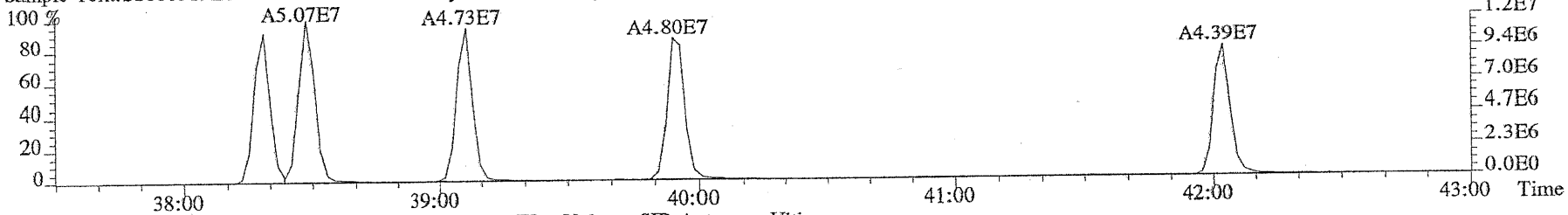
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



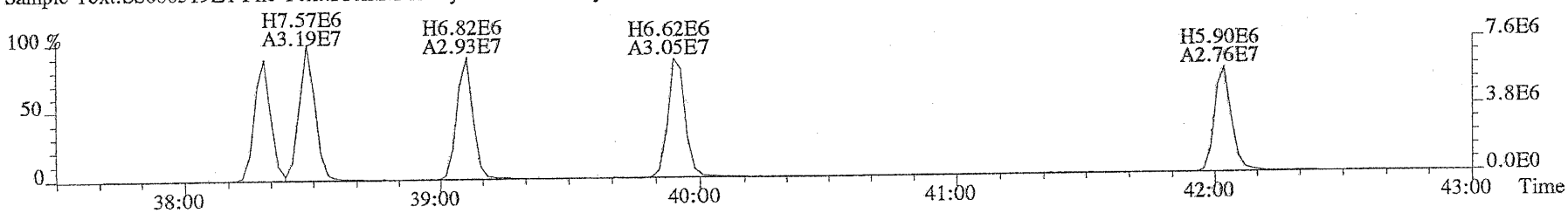
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



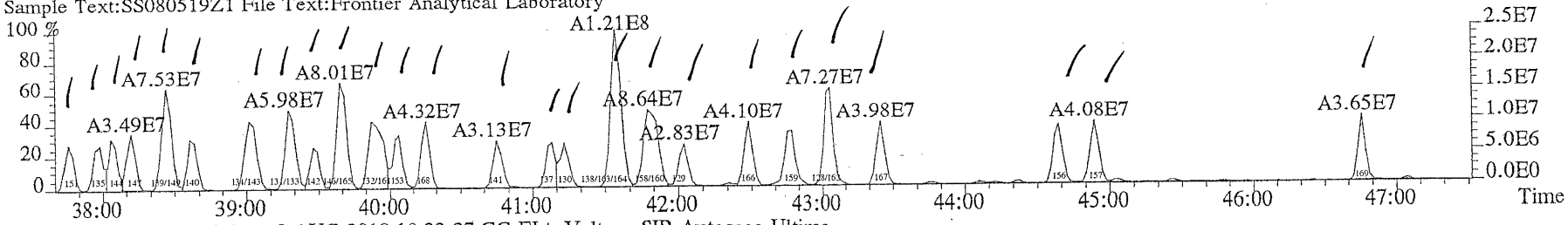
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



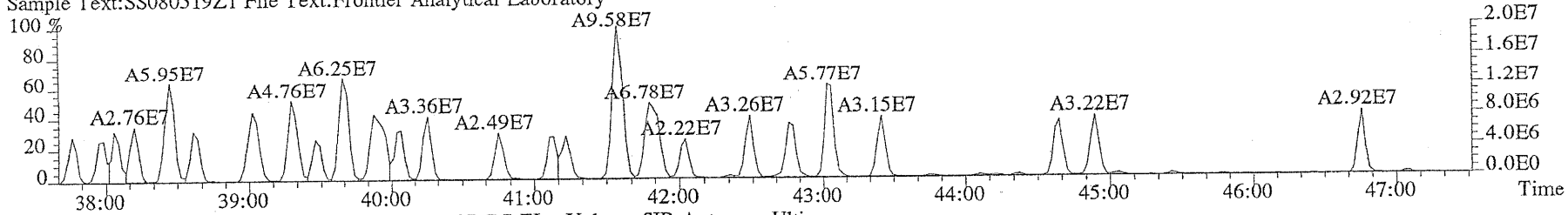
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



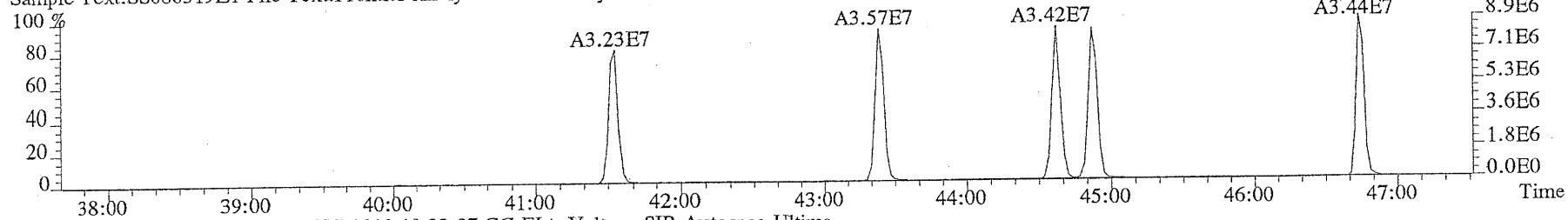
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



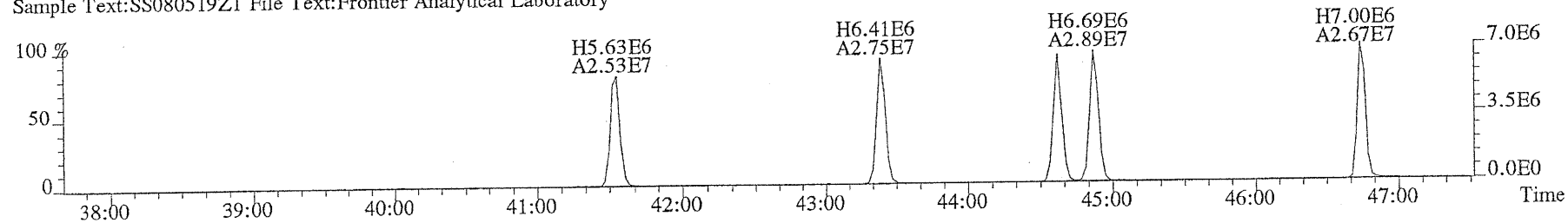
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



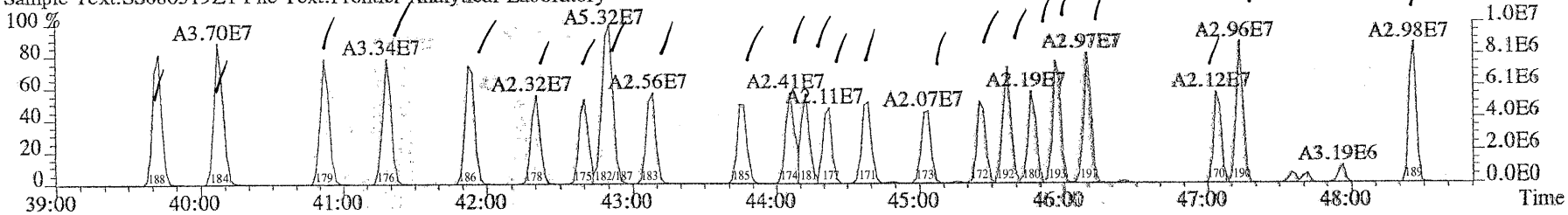
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



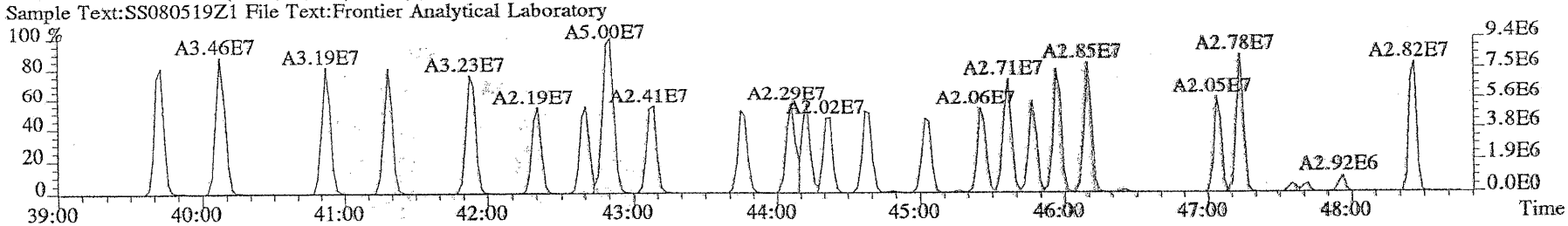
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



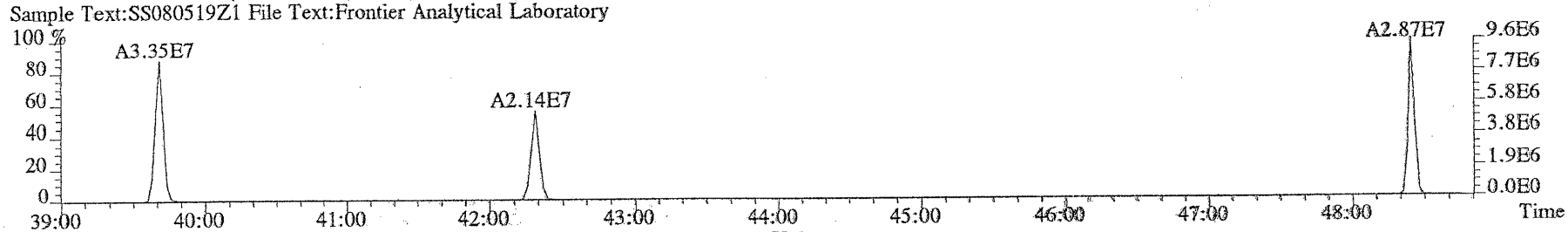
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



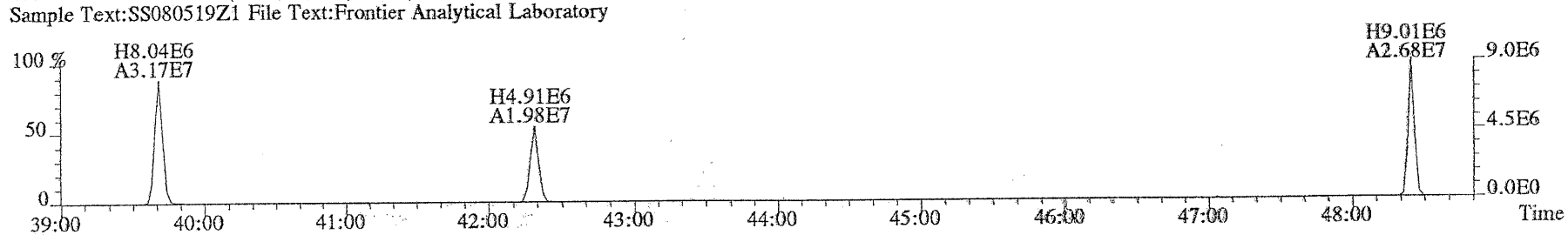
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



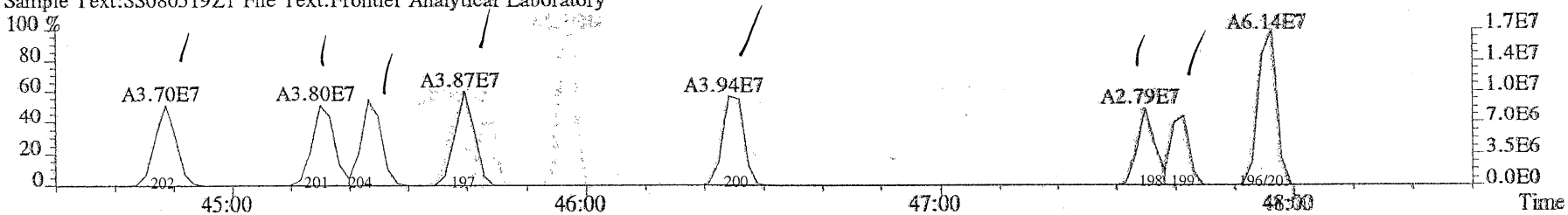
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



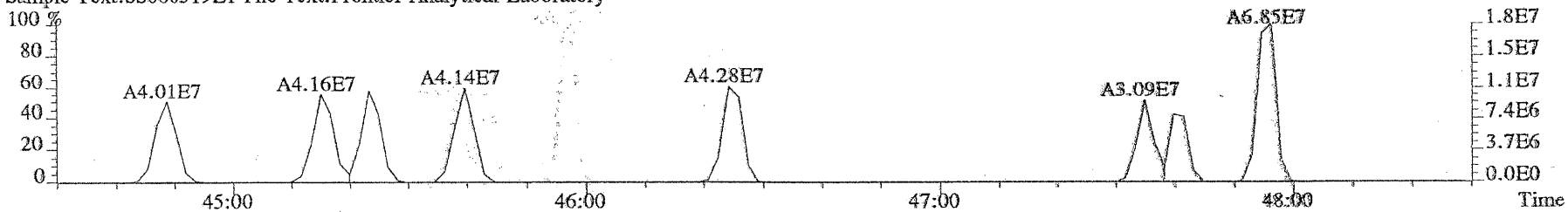
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



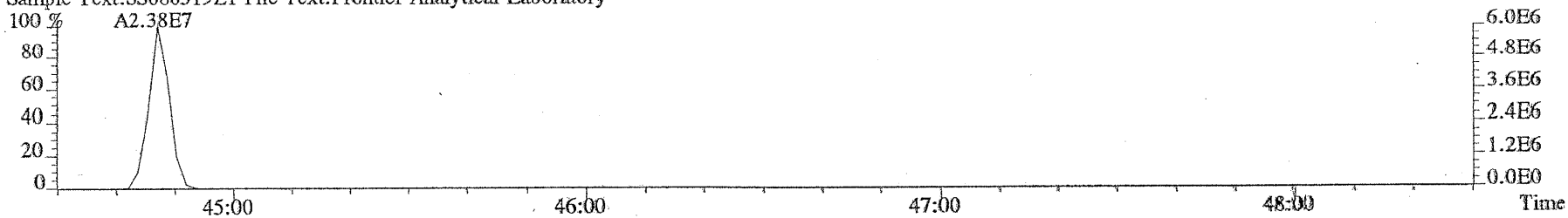
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



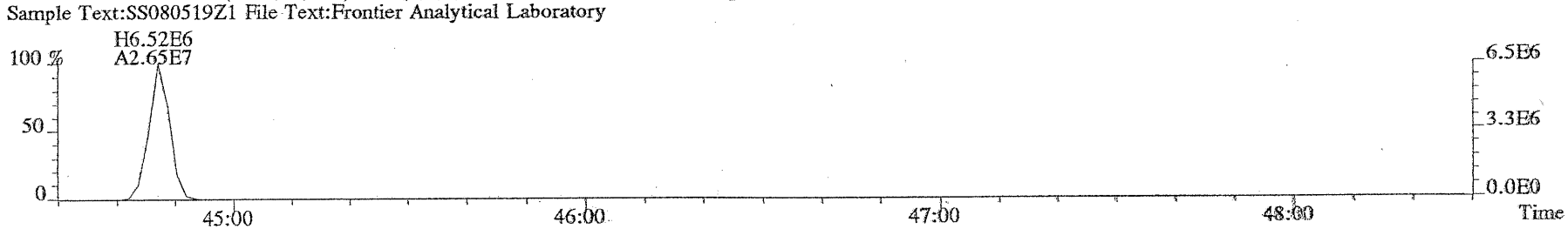
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



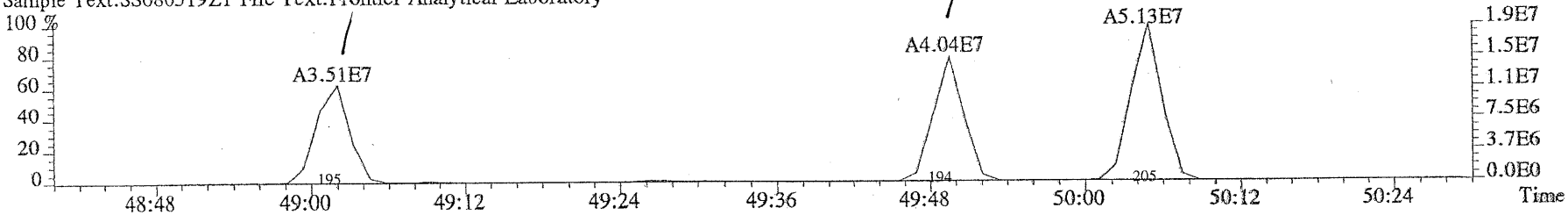
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



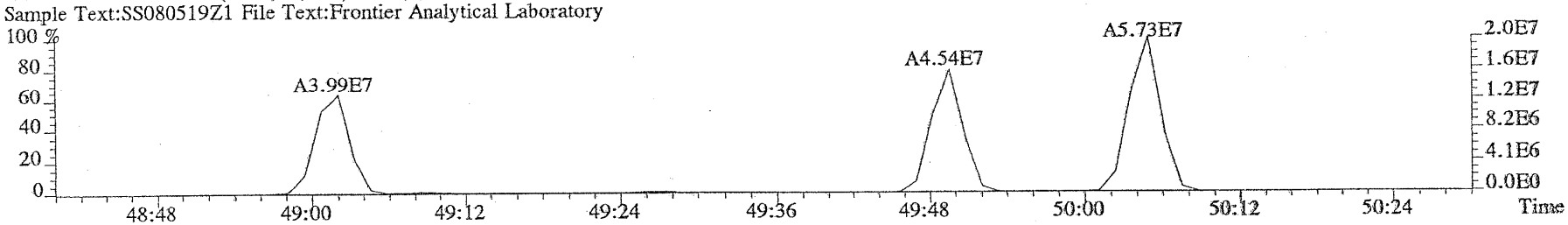
File:05AUG19Z #1-405 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



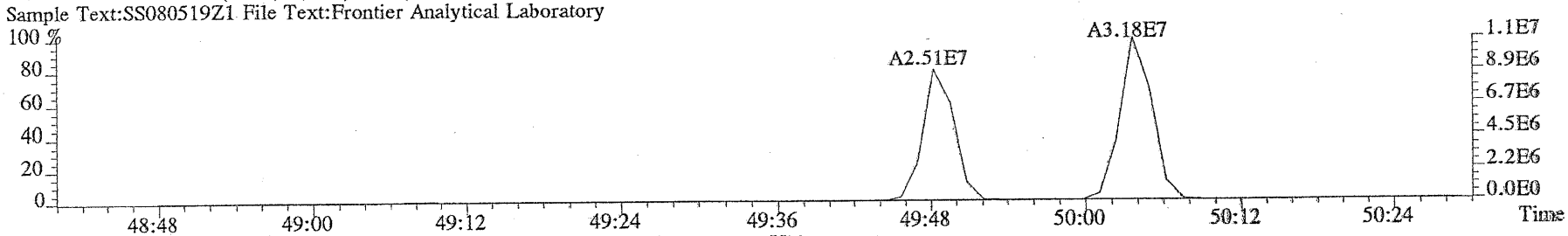
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



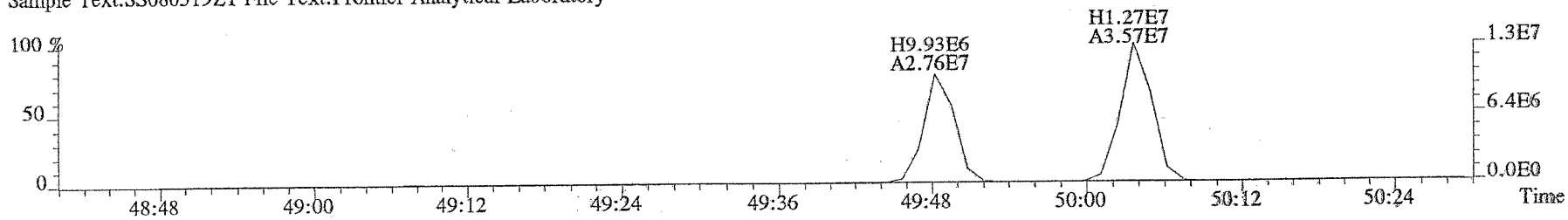
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



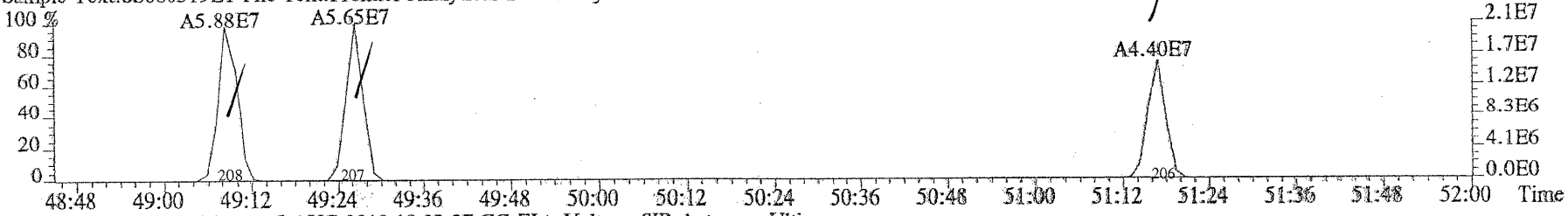
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



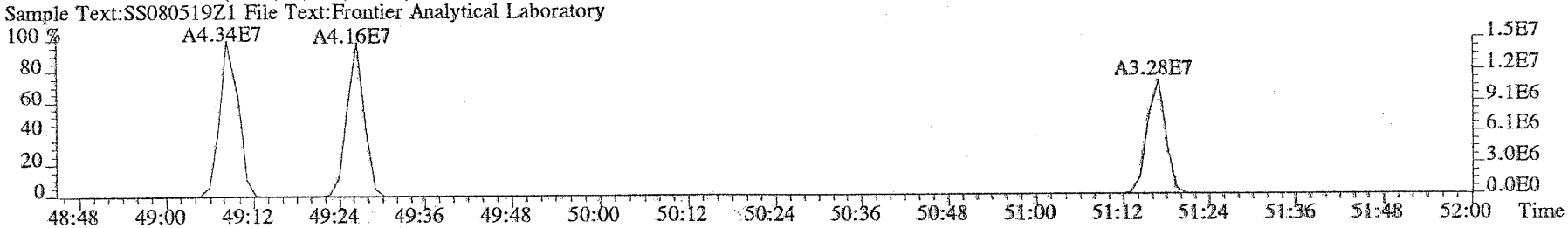
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



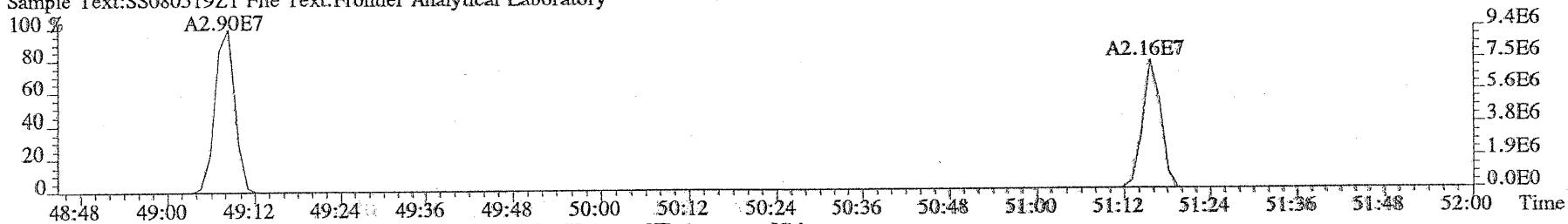
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



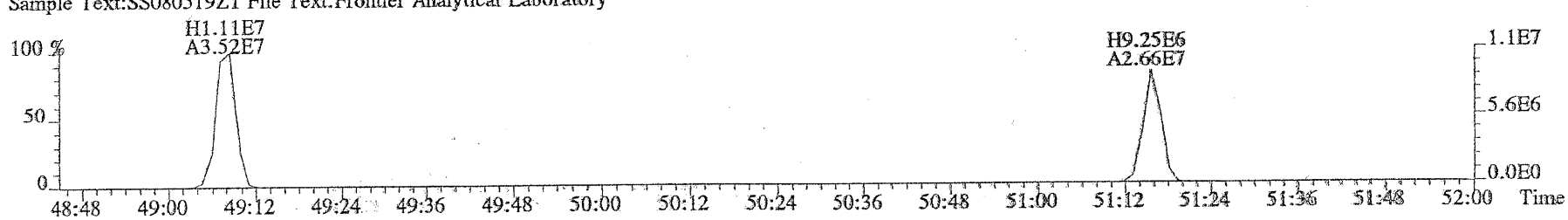
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



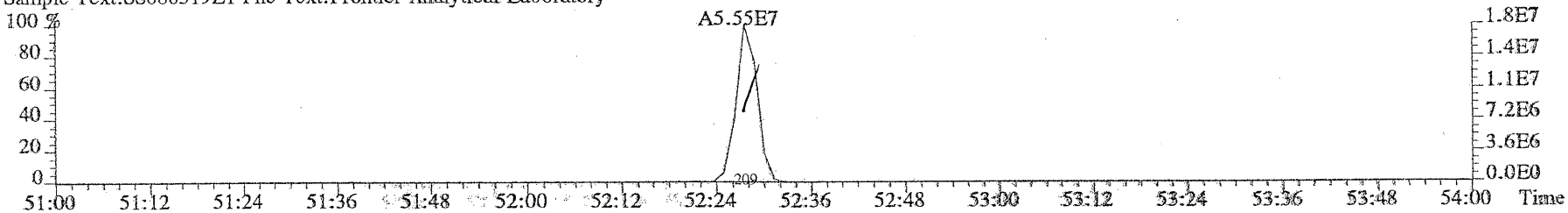
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



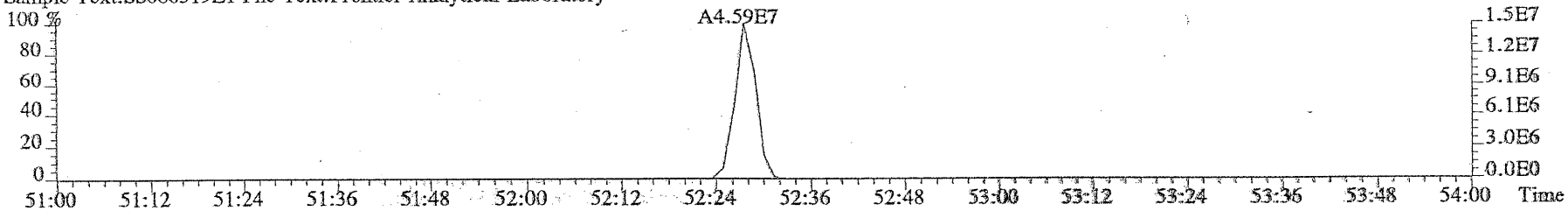
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



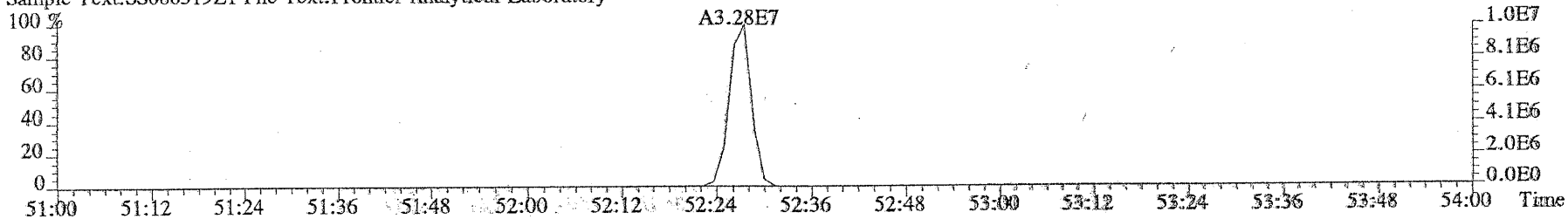
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



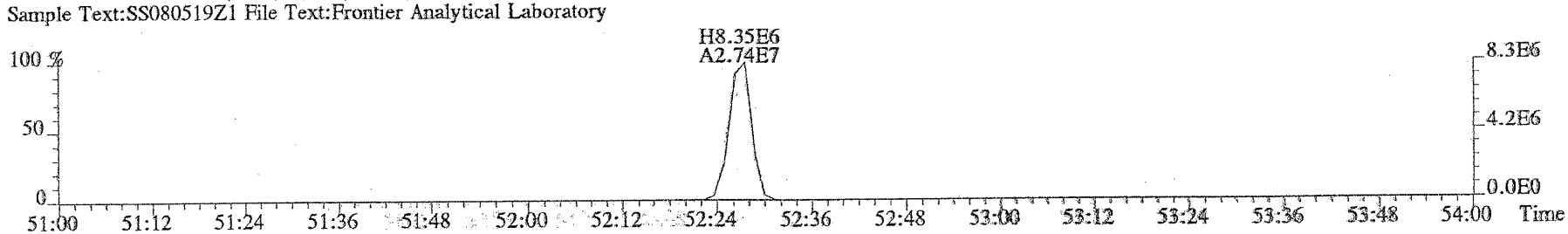
File:05AUG19Z #1-315 Acq: 5-AUG-2019 10:33:37 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080519Z1 File Text:Frontier Analytical Laboratory



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: _____ 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				

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

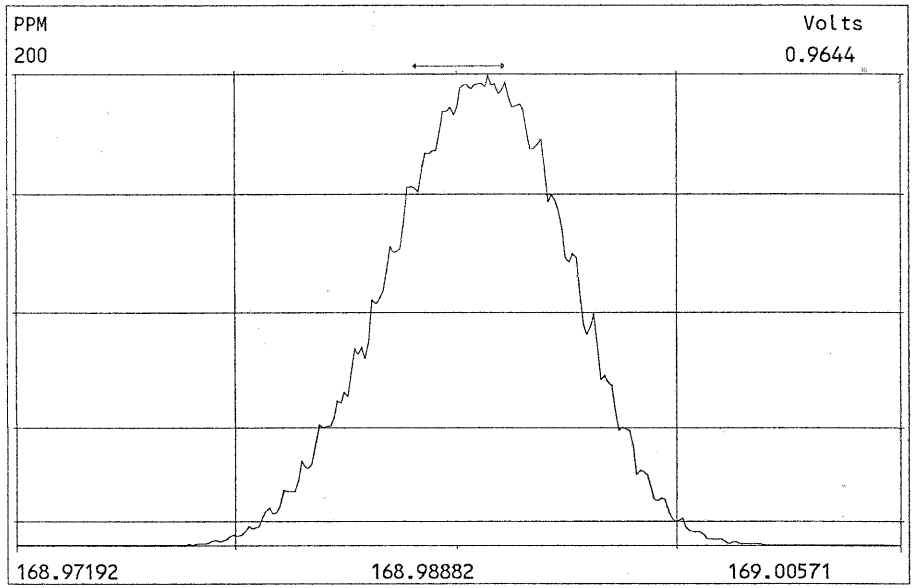
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
05AUG19Z	1	ST080519Z1	1668 CS3 R181204D	5-AUG-19 09:35:17	ST080519Z1	ST080519Z2	BS
05AUG19Z	2	SS080519Z1	Daily 209 190408A	5-AUG-19 10:33:37	ST080519Z1	ST080519Z2	BS
05AUG19Z	3	12511-009-0001-SA	LDW-Y2-IN-ENR-CE-S010	5-AUG-19 11:31:58	ST080519Z1	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

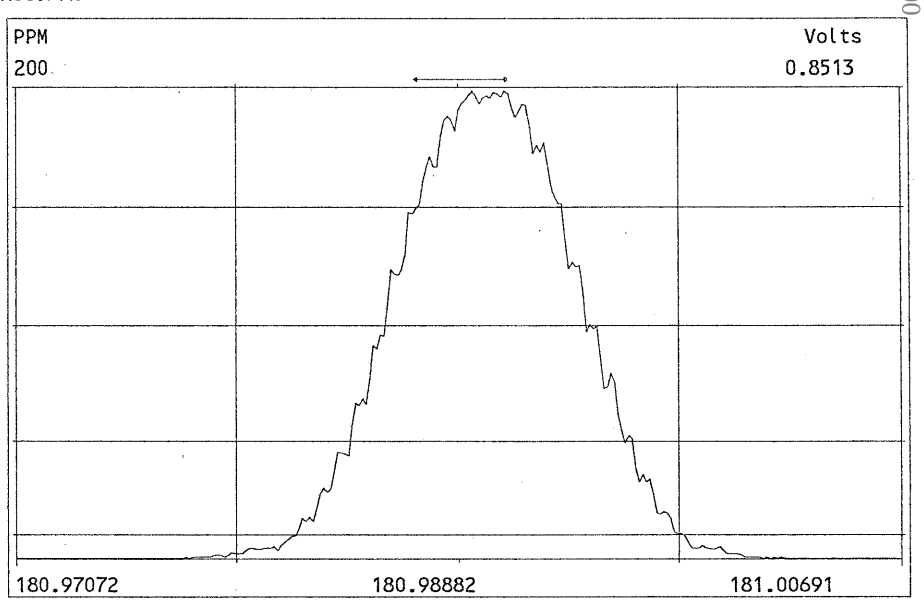
B 8/6/19

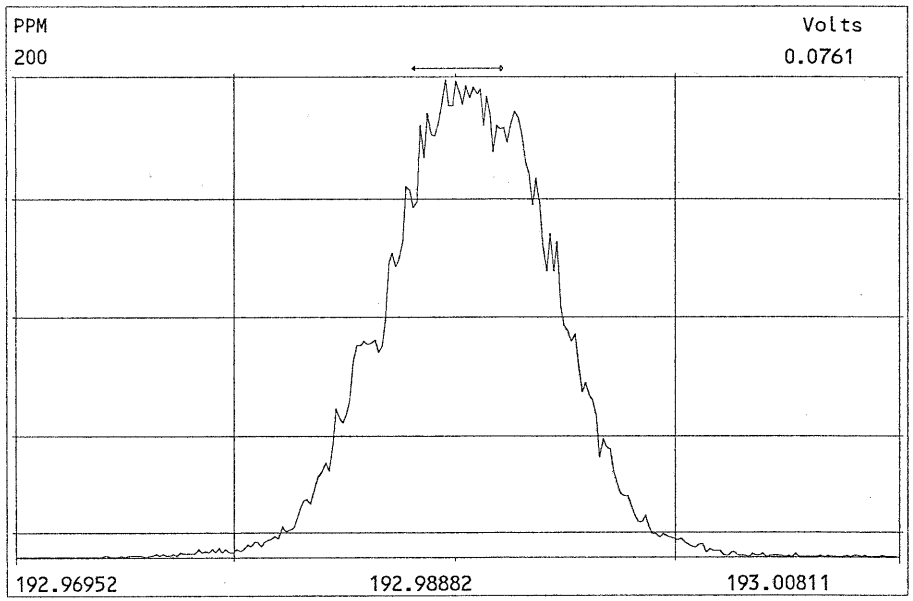
Data Backed Up:_____

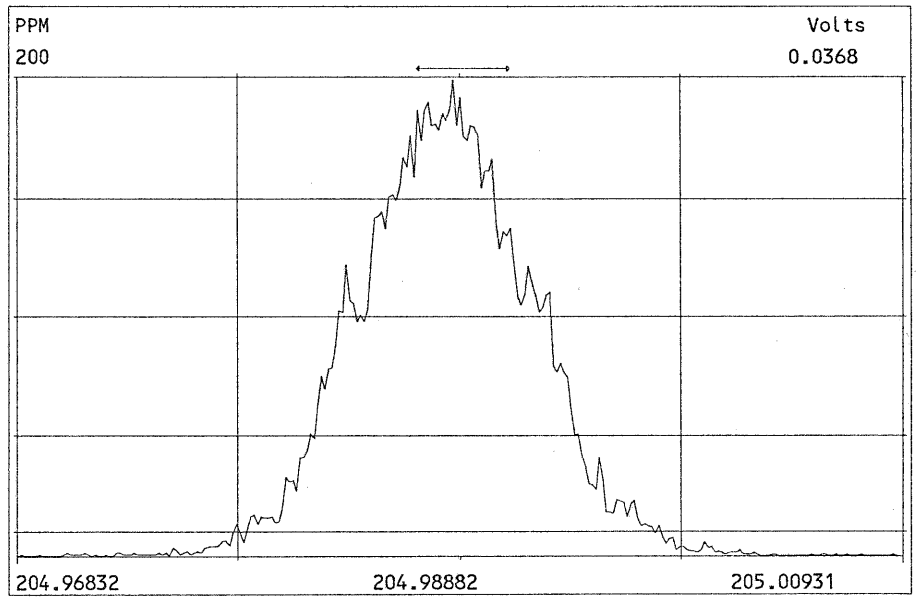
Date:_____

Peak Locate Examination: 5-AUG-2019:09:32 File:05AUG19Z
Experiment:1668PCB Function:1 Reference:PFK









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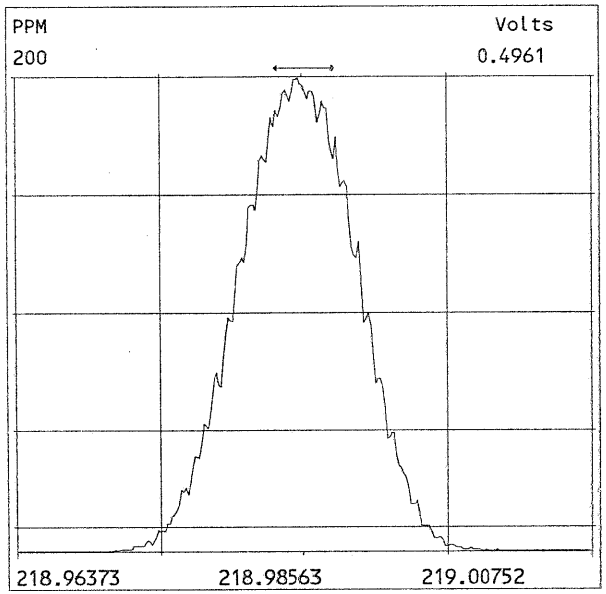
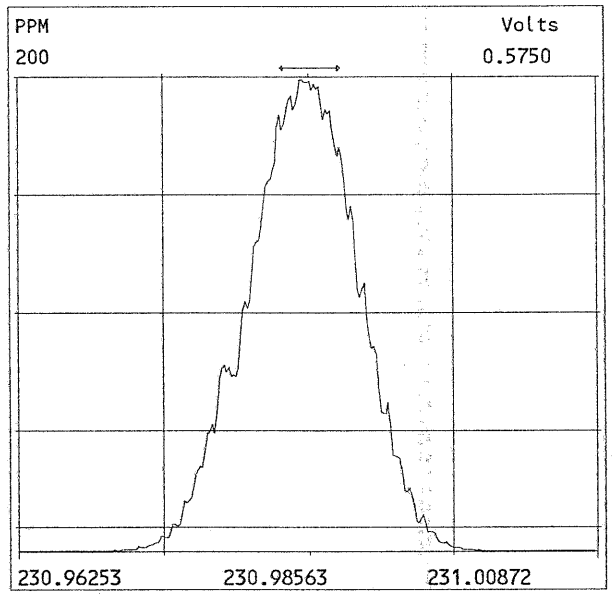
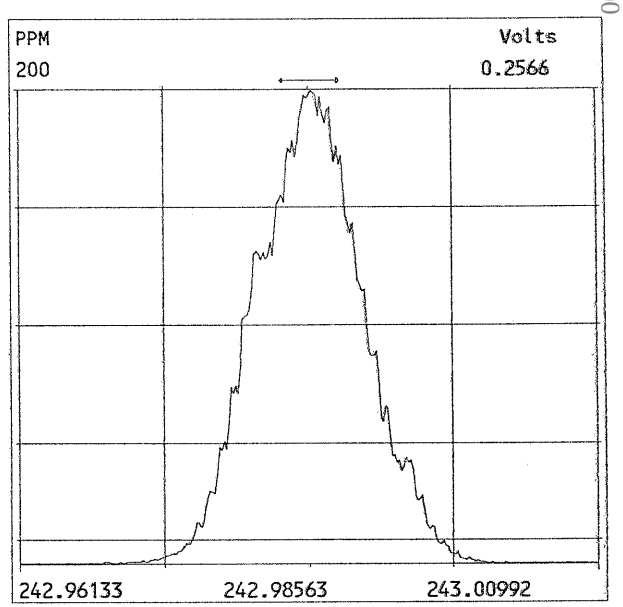
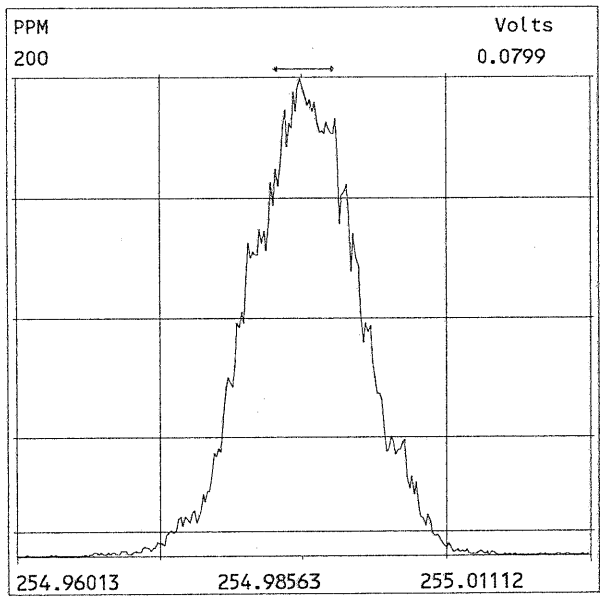
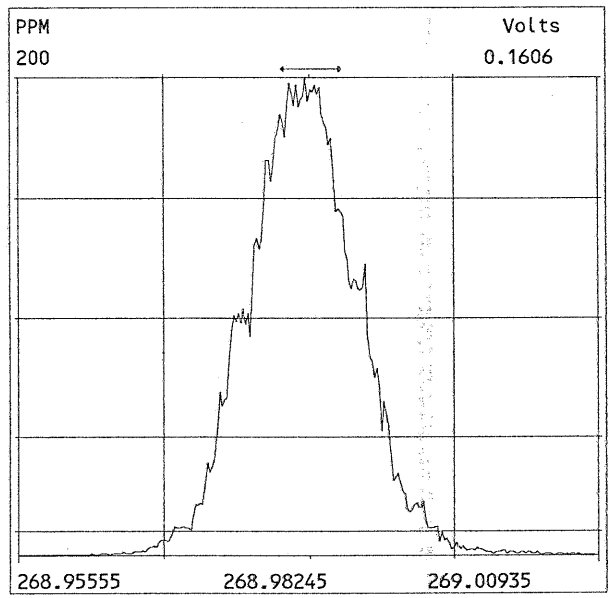
Experiment:1668PCB Function:2 Reference:PFK

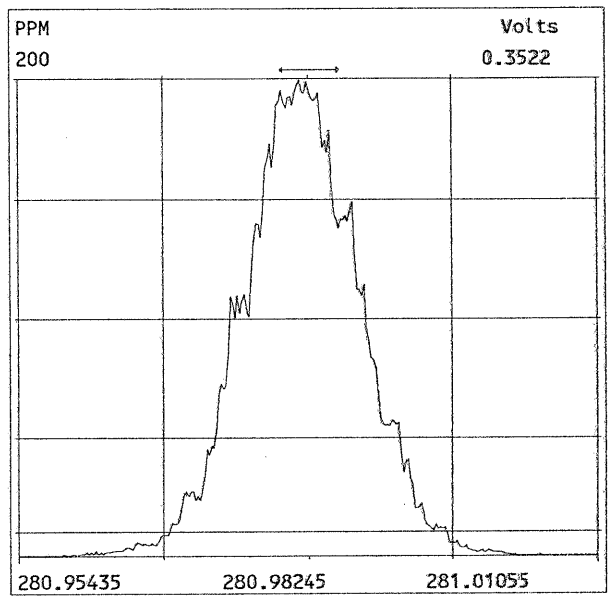












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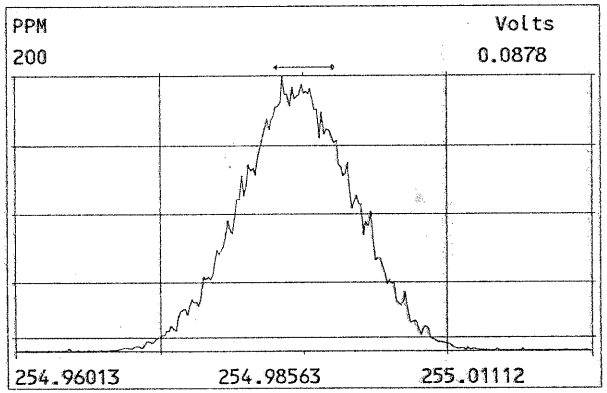
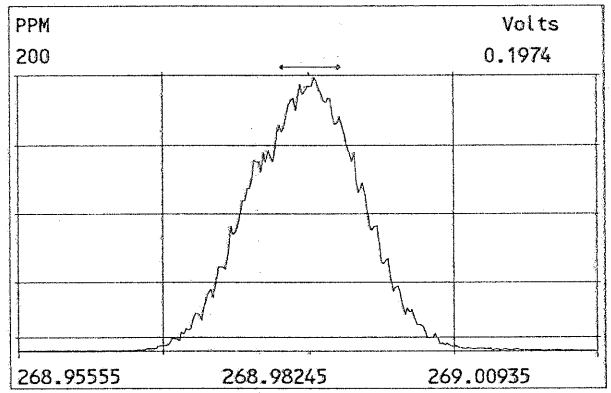
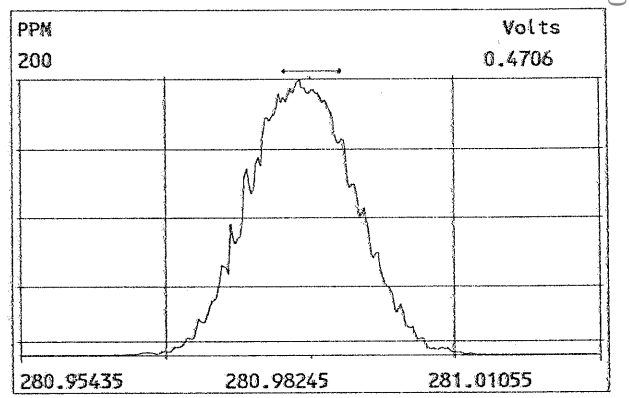
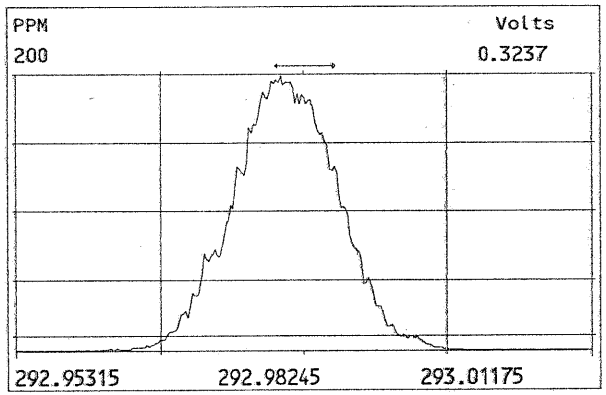
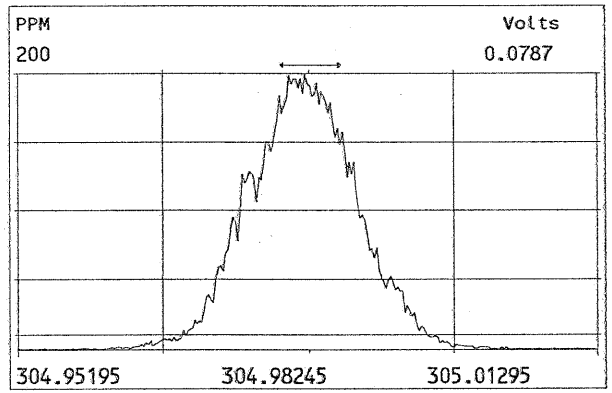
Experiment:1668PCB Function:3 Reference:PFK

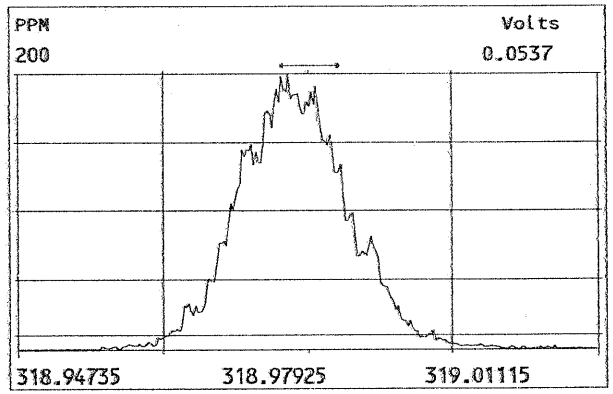


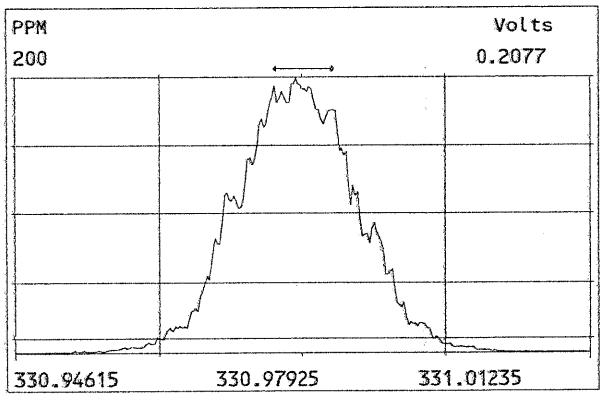


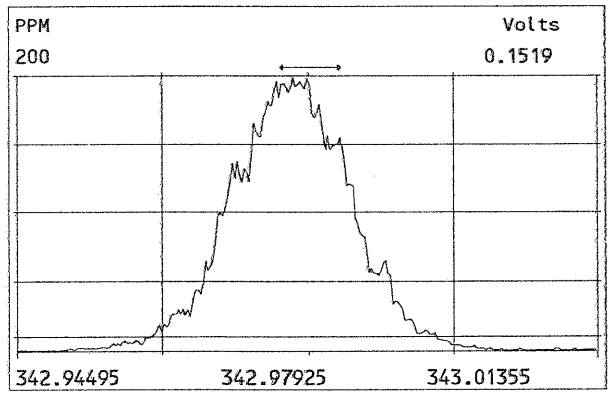




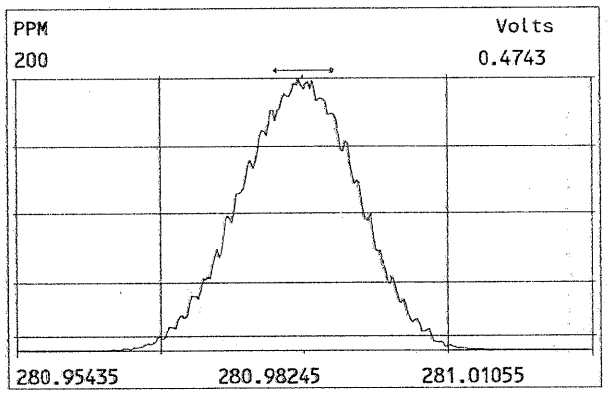


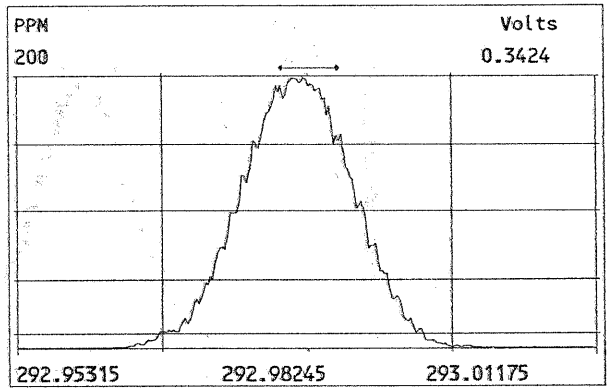


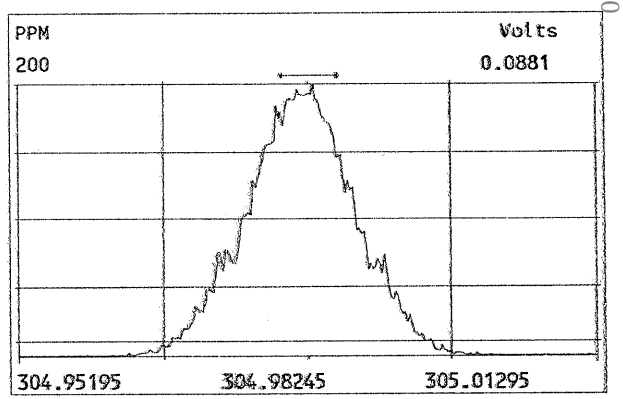


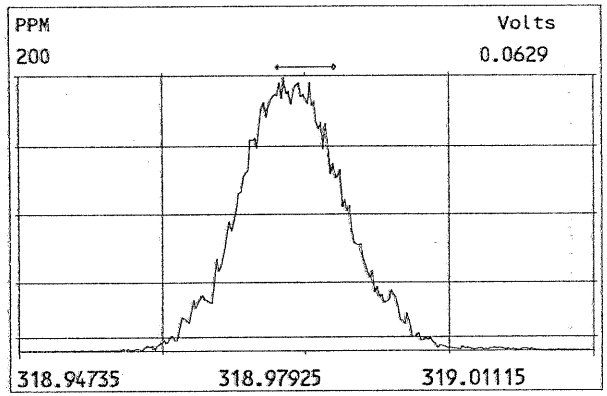


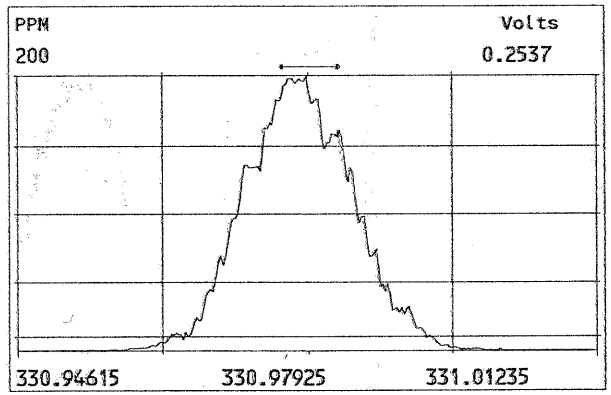
Peak Locate Examination: 5-AUG-2019:09:33 File:05AUG19Z
Experiment:1668PCB Function:4 Reference:PFK

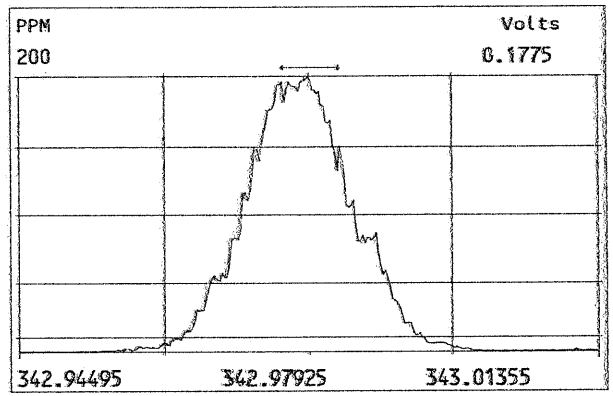


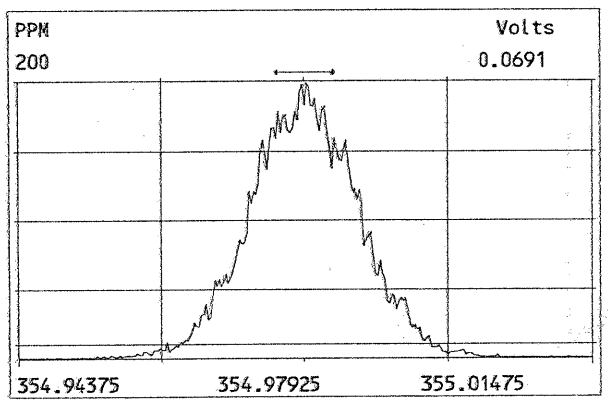


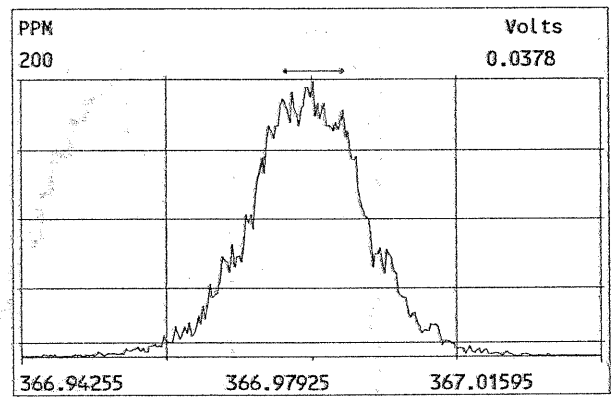


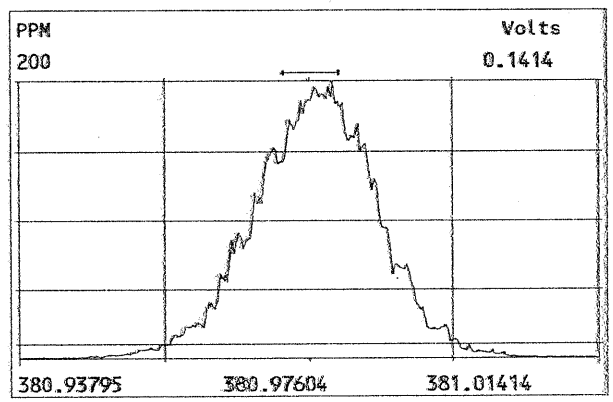




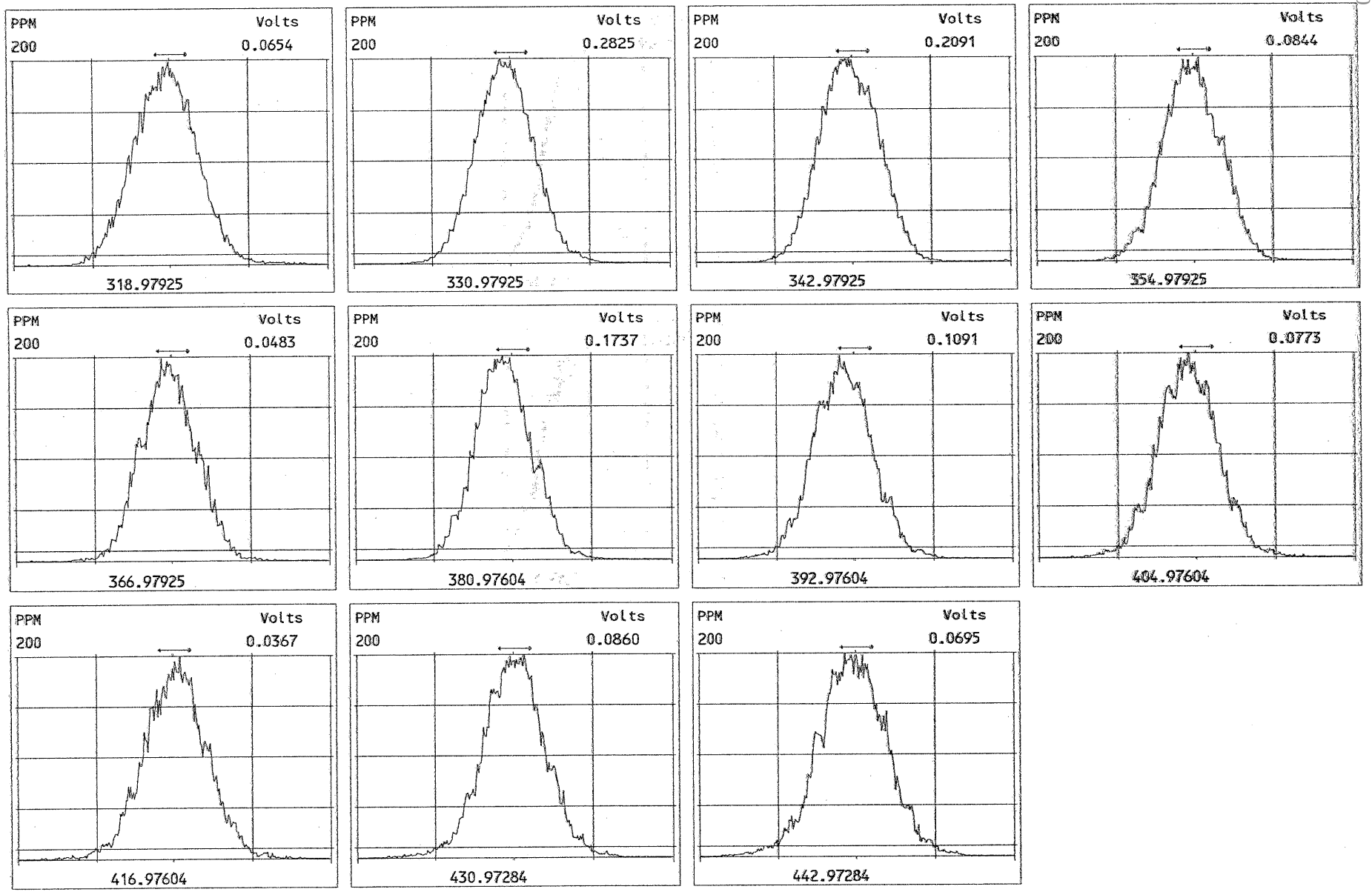




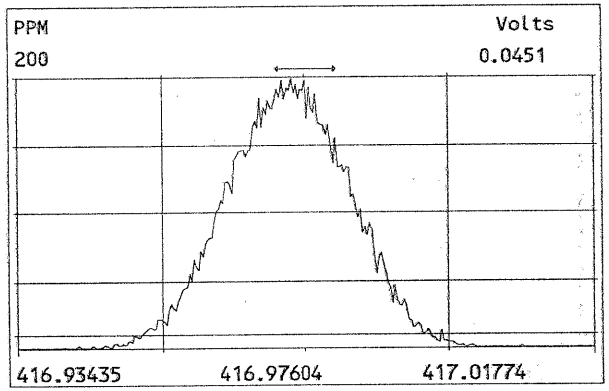


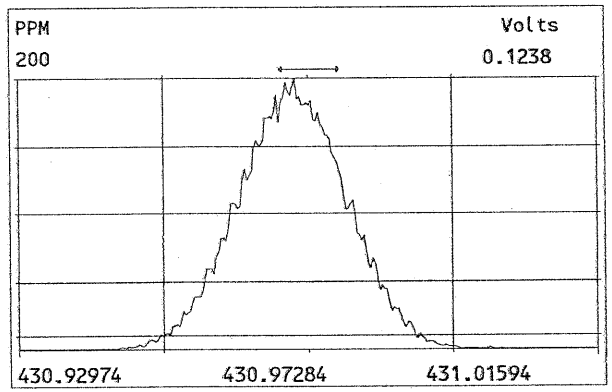


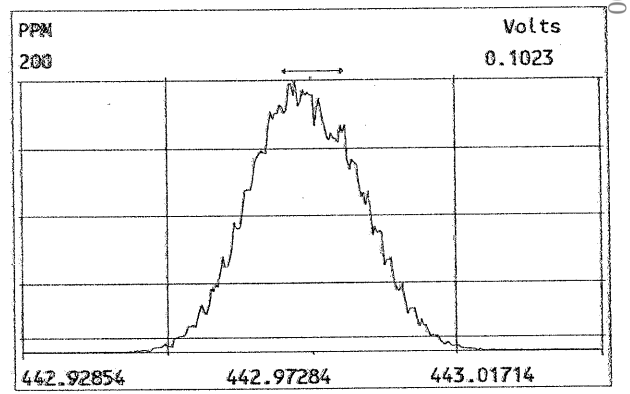
Peak Locate Examination: 5-AUG-2019:09:34 File:05AUG19Z
Experiment:1668PCB Function:5 Reference:PFK

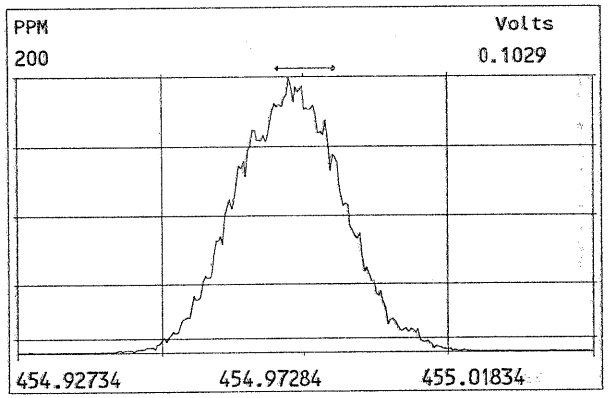


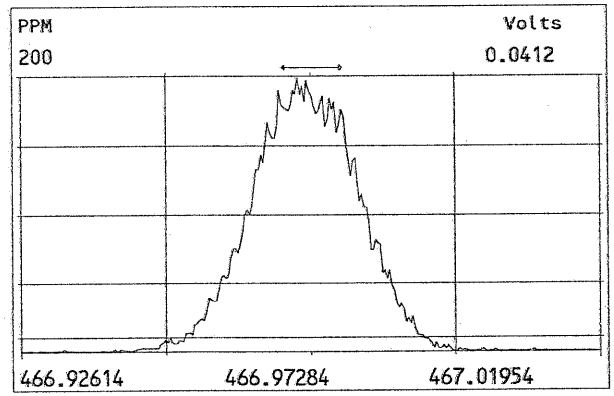
Peak Locate Examination: 5-AUG-2019:09:34 File:05AUG19Z
Experiment:1668PCB Function:6 Reference:PFK

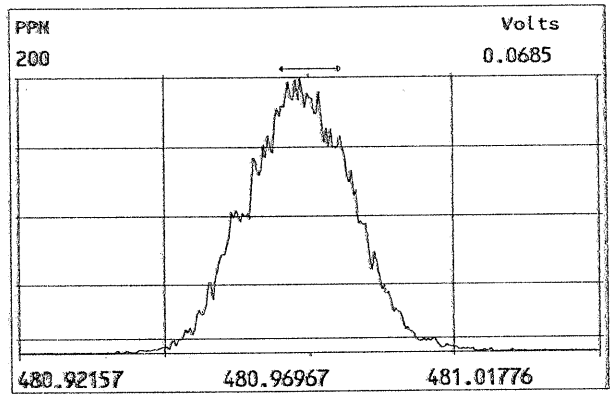


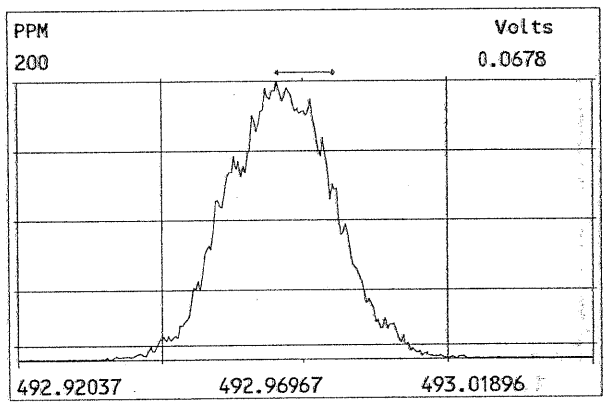


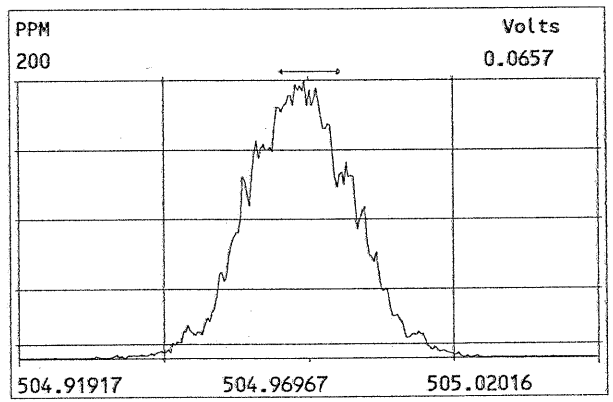


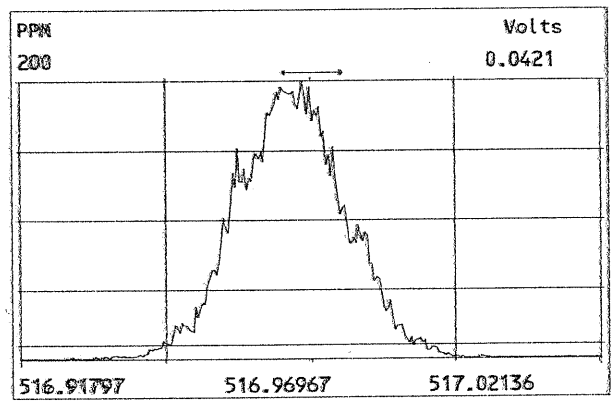




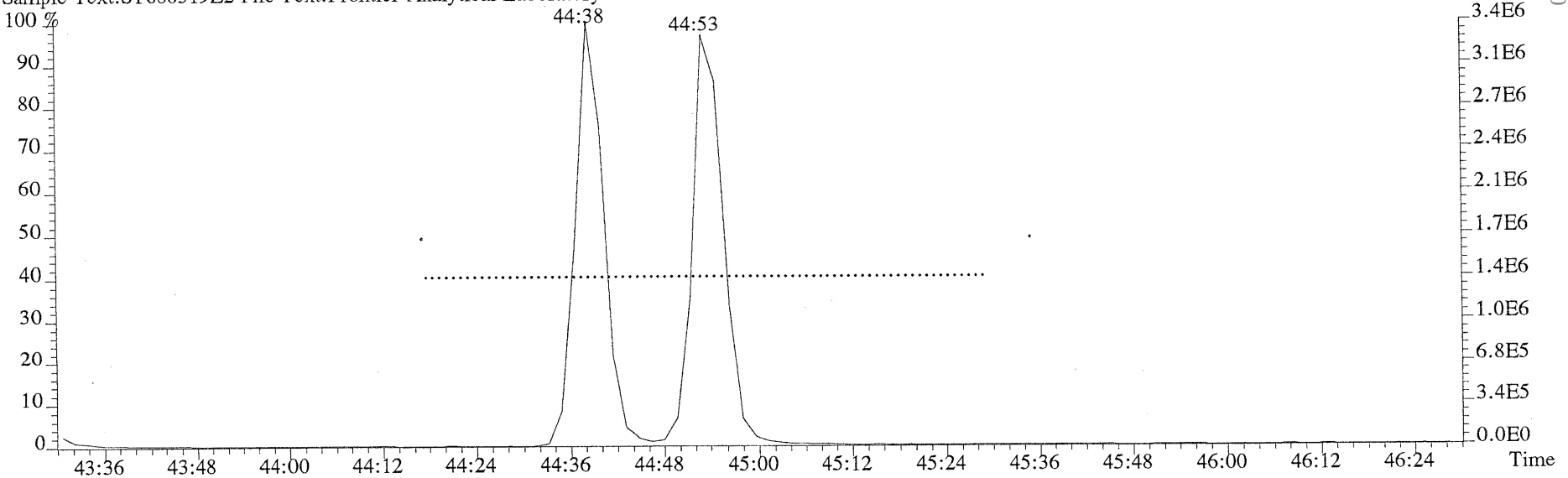




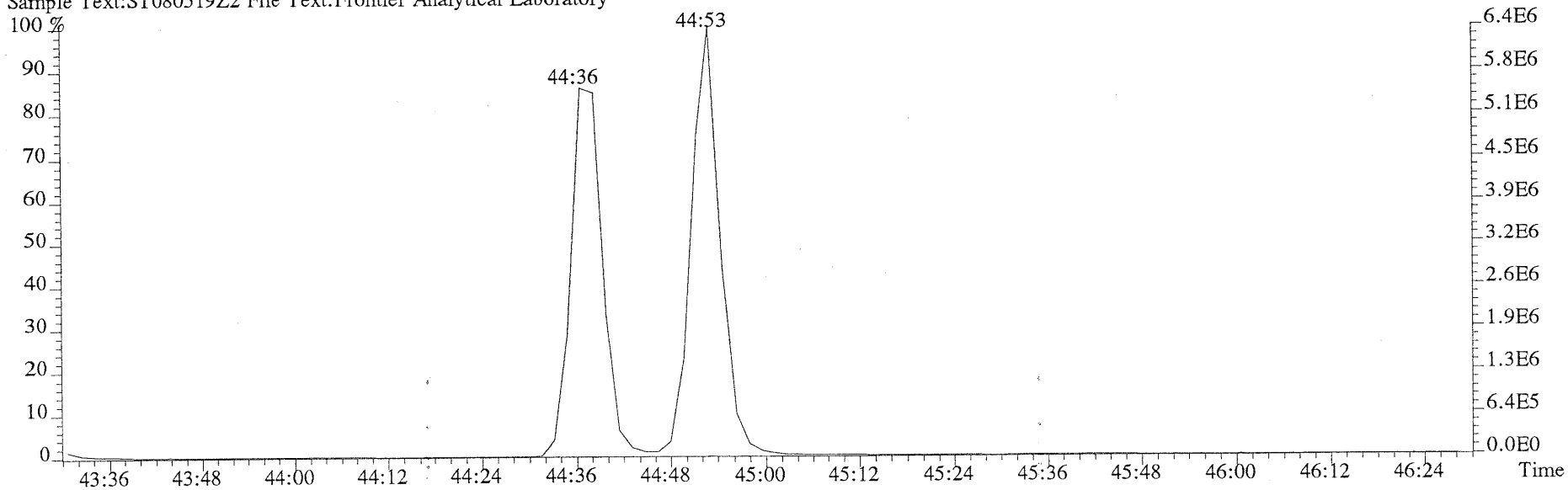




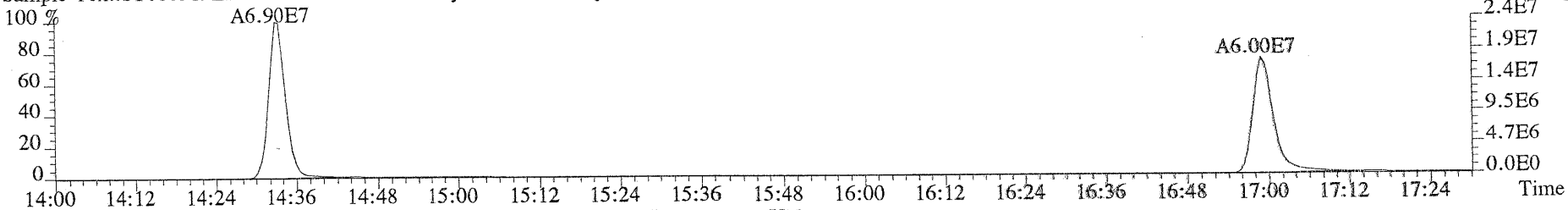
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



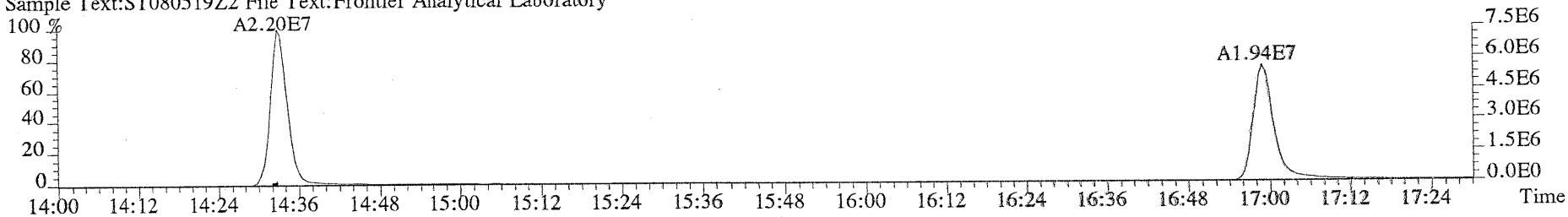
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



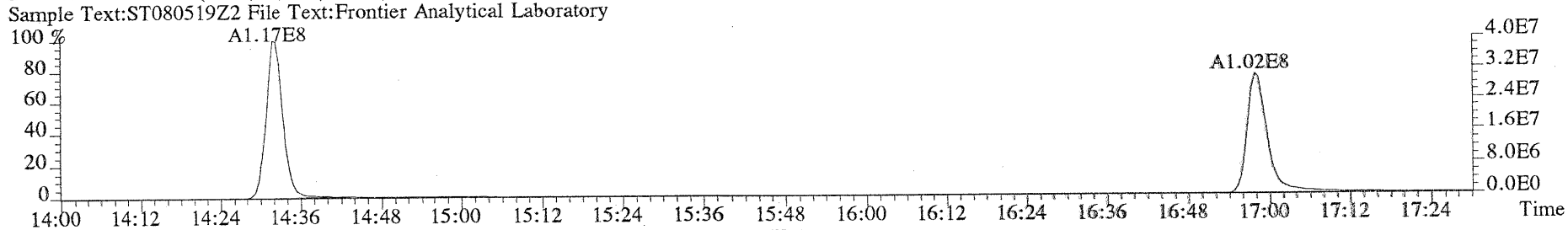
File:05AUG19Z #1-783 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



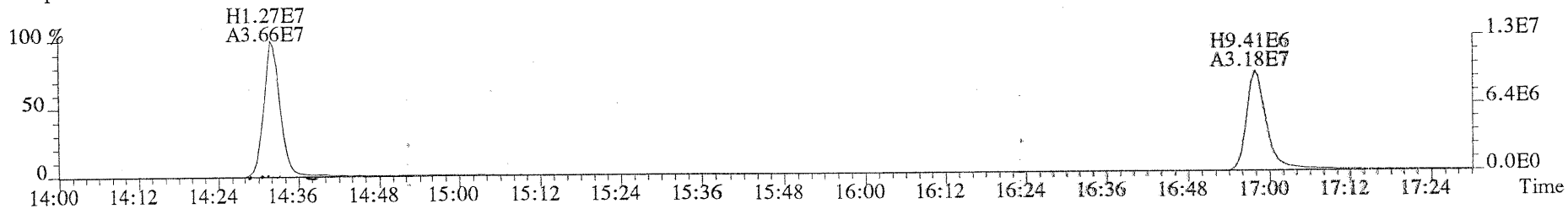
File:05AUG19Z #1-783 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



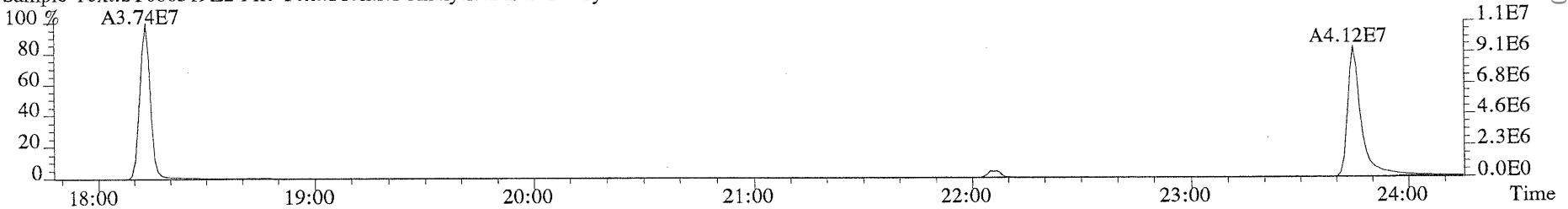
File:05AUG19Z #1-783 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



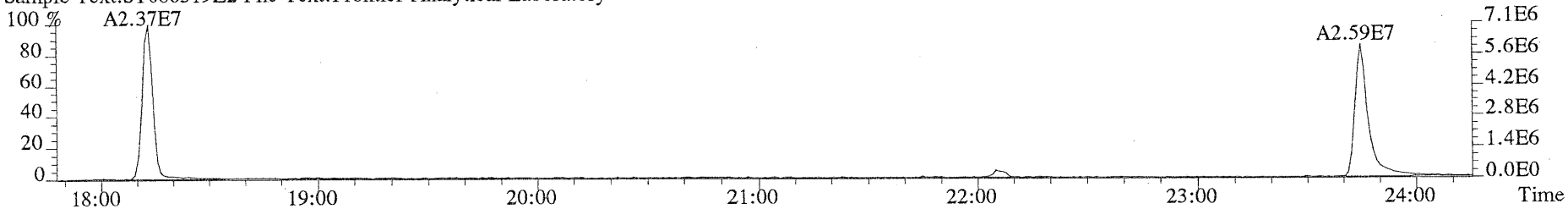
File:05AUG19Z #1-783 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



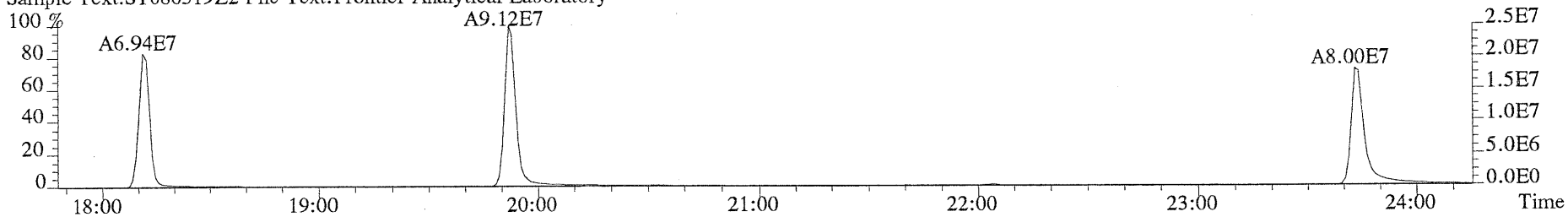
File:05AUG19Z #1-521 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



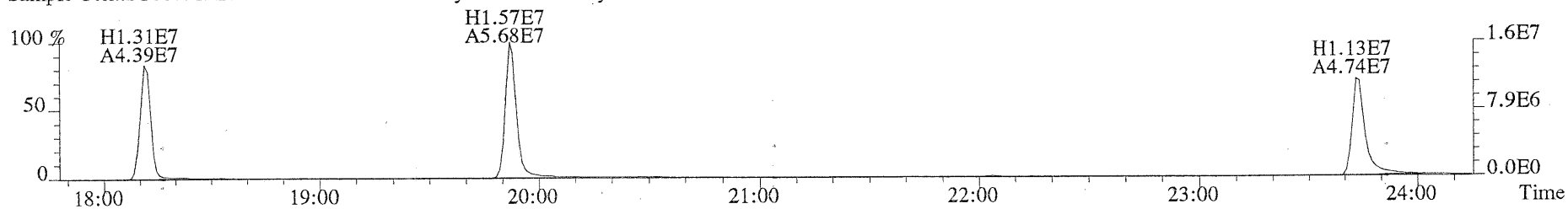
File:05AUG19Z #1-521 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



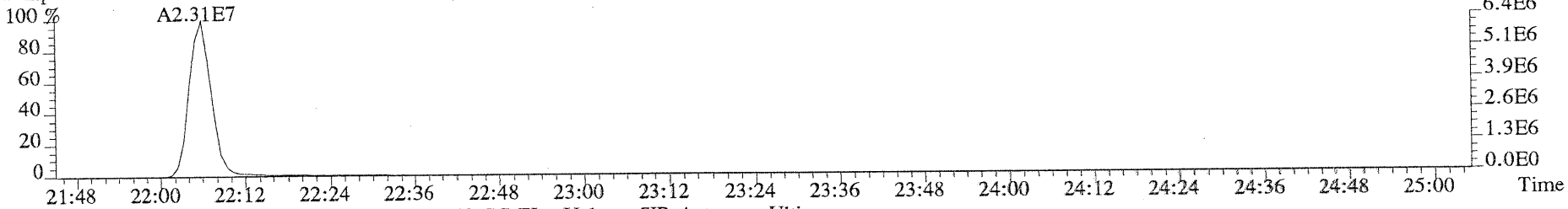
File:05AUG19Z #1-521 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



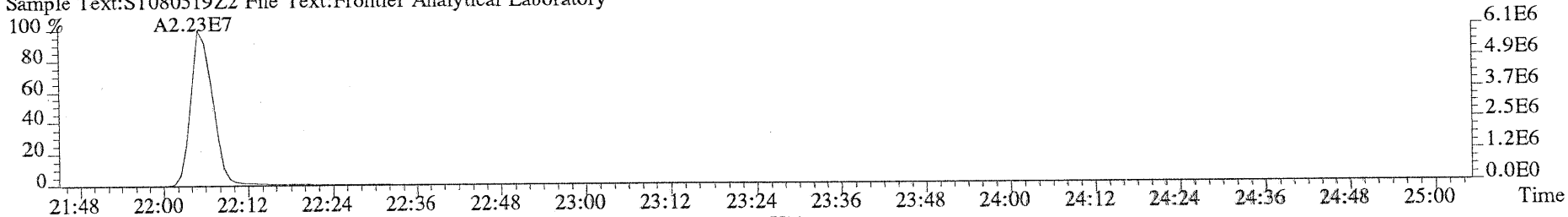
File:05AUG19Z #1-521 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



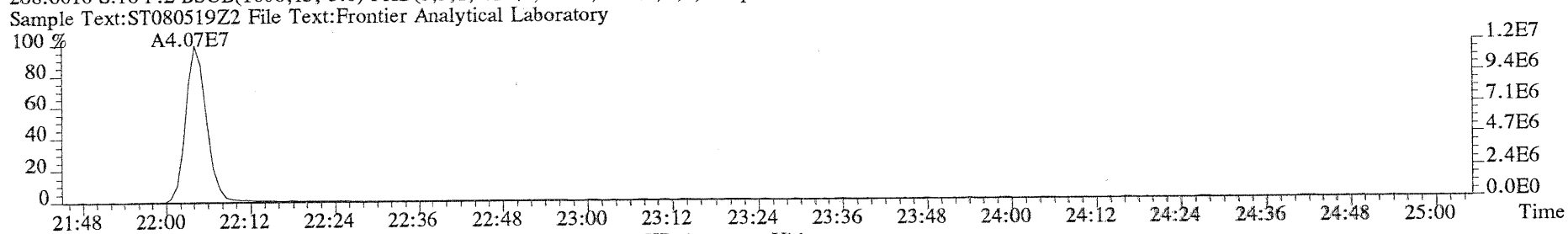
File:05AUG19Z #1-521 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



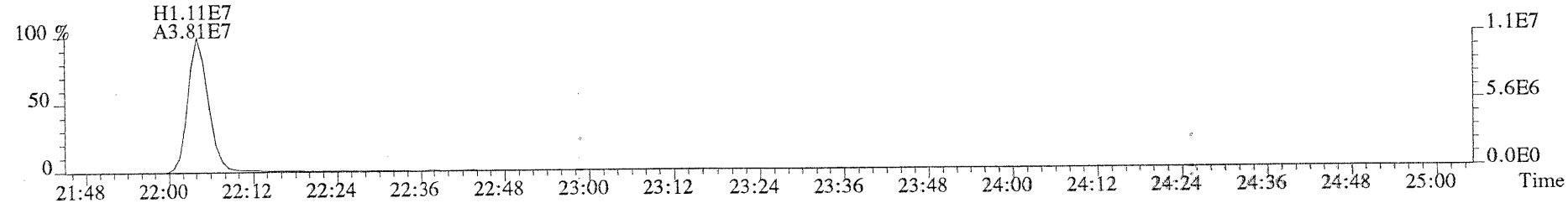
File:05AUG19Z #1-521 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100:0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



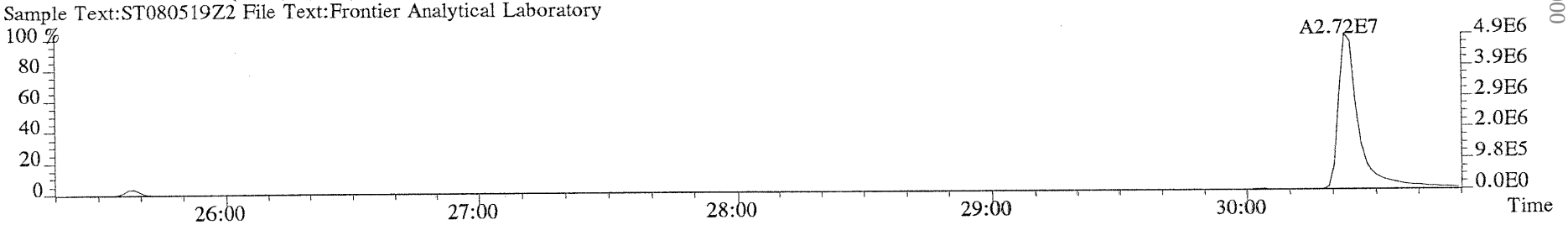
File:05AUG19Z #1-521 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



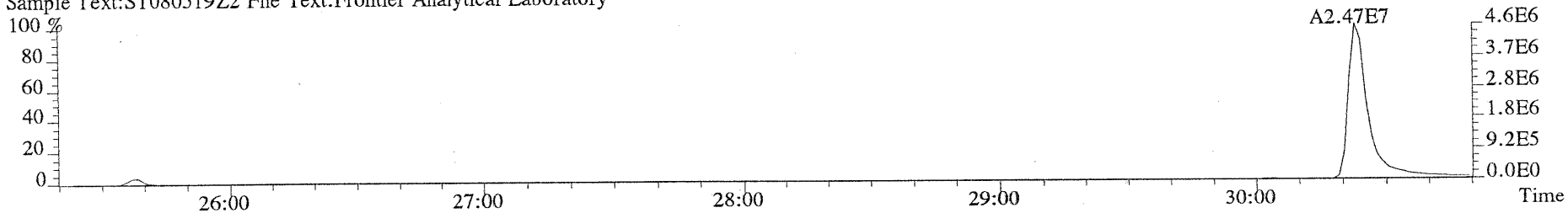
File:05AUG19Z #1-521 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



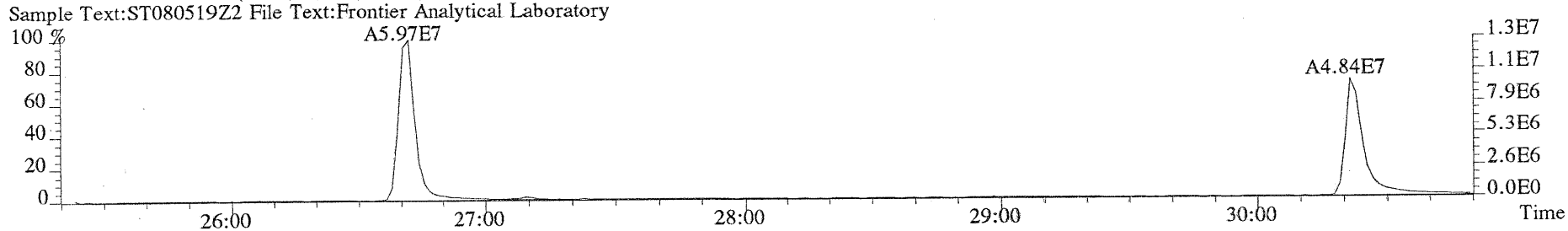
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



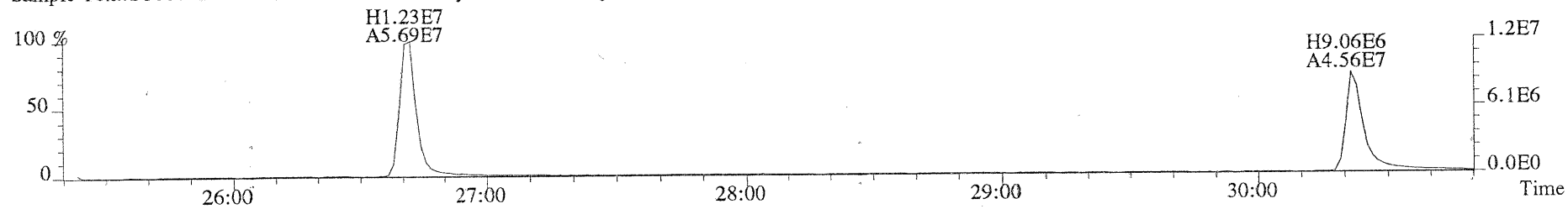
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



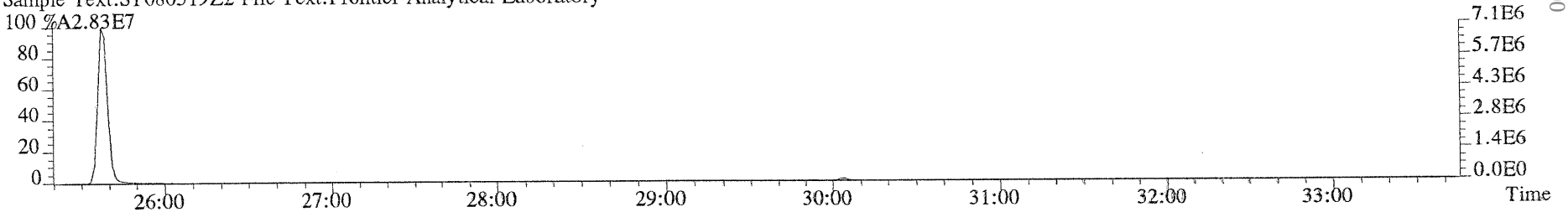
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



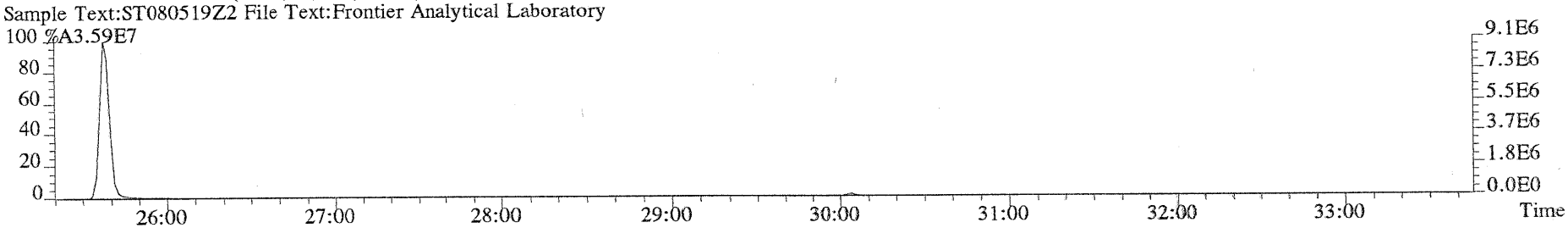
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



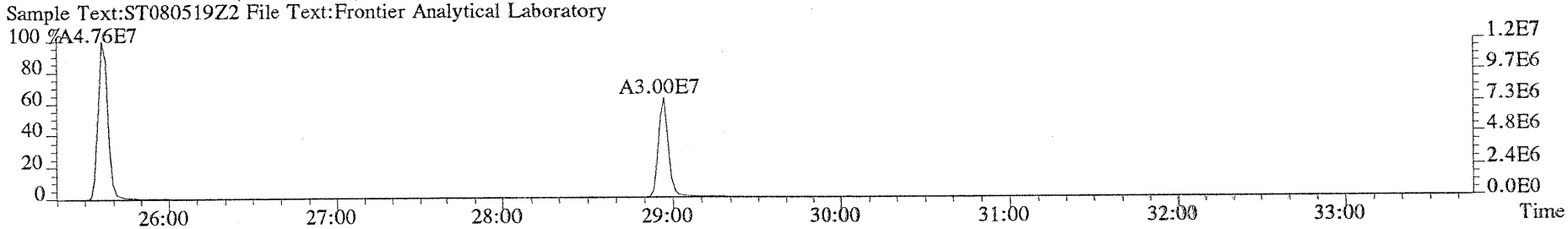
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



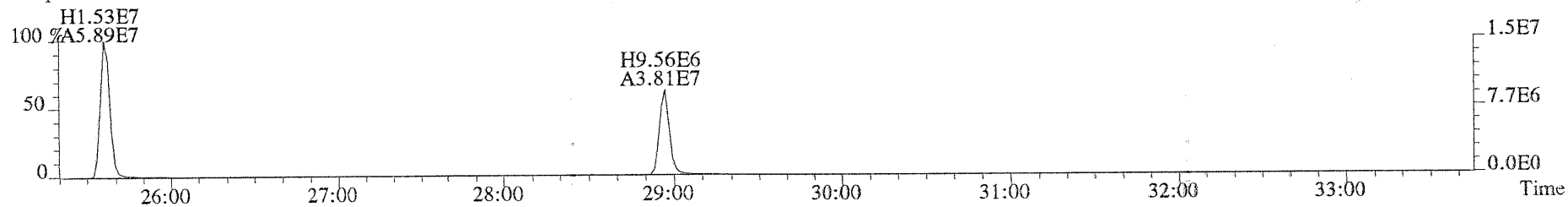
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



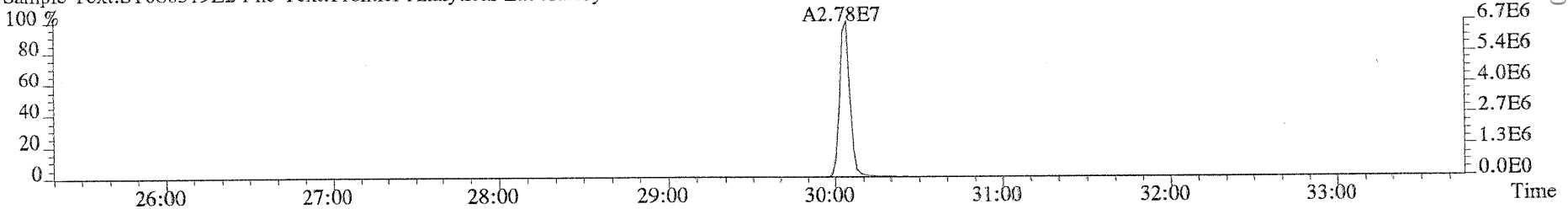
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



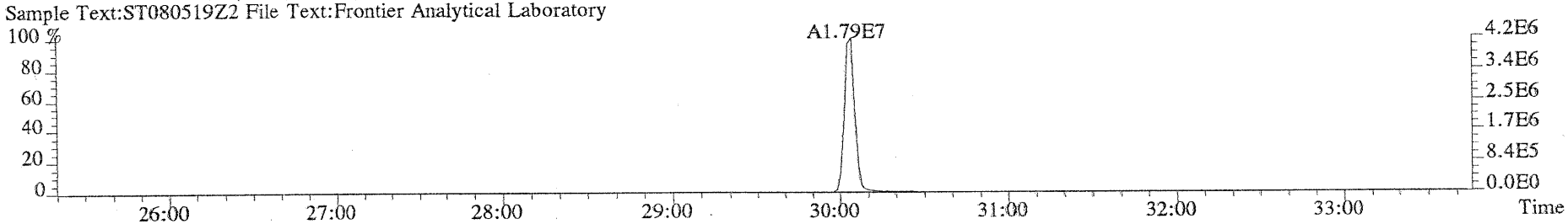
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



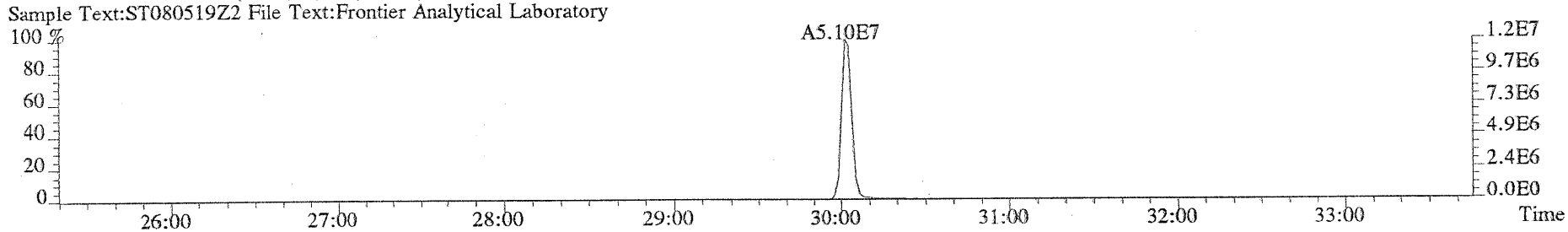
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



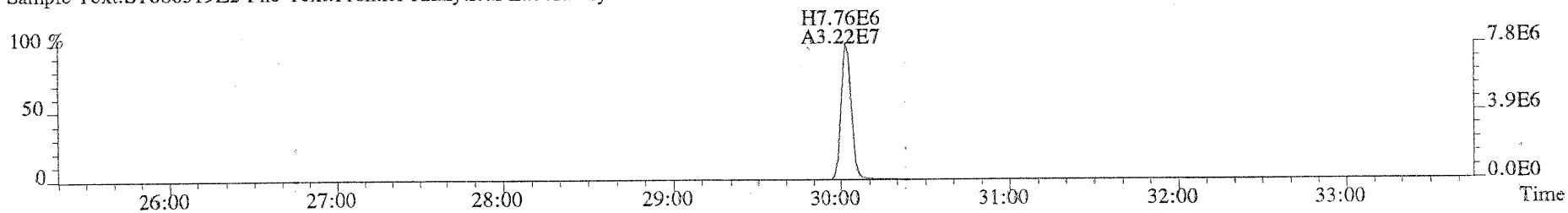
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



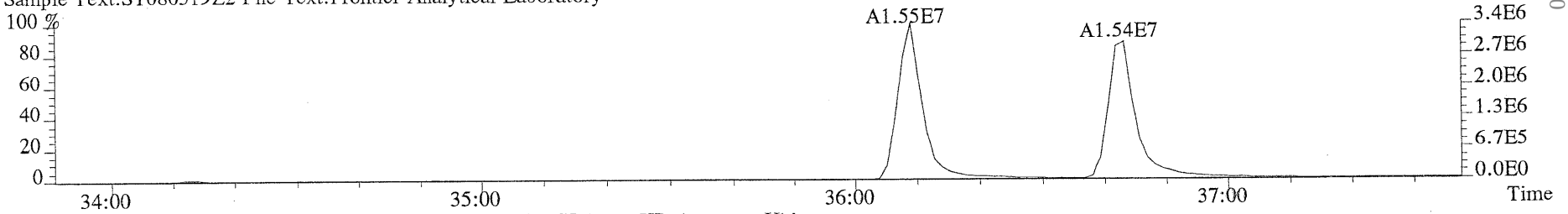
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



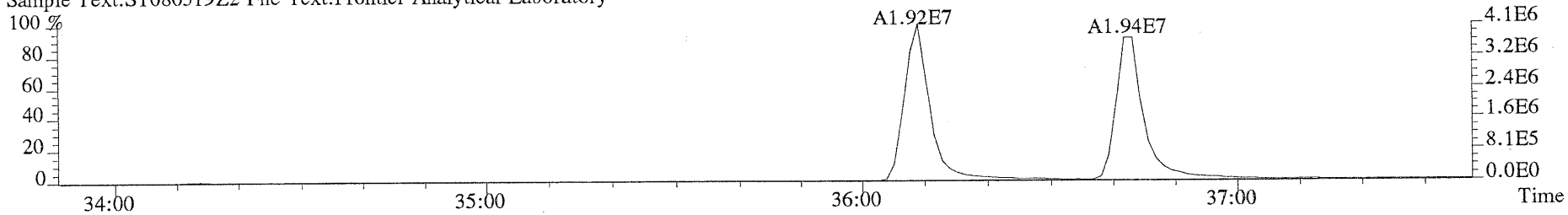
File:05AUG19Z #1-401 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



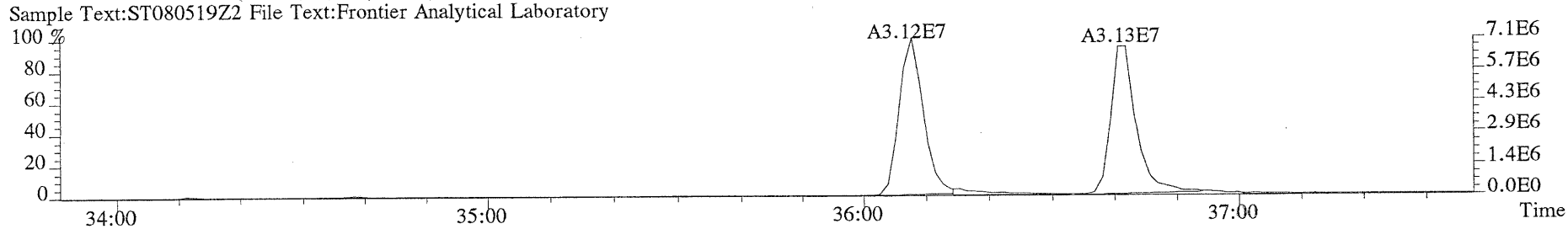
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



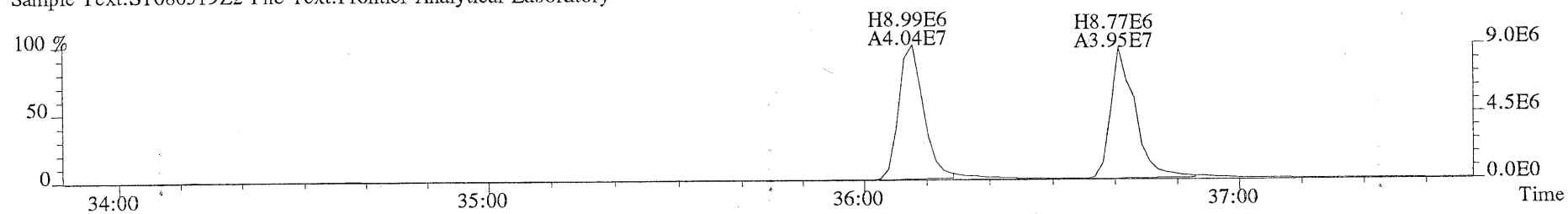
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



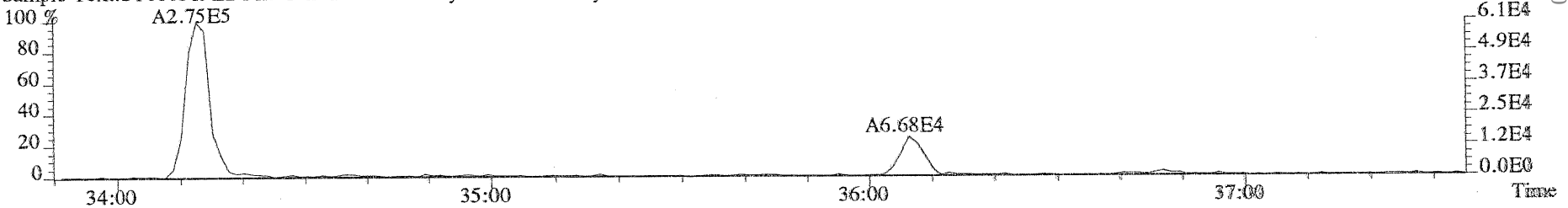
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



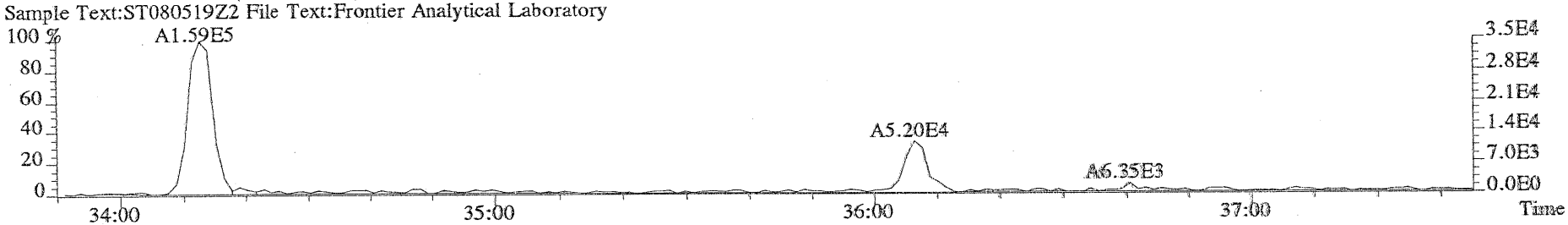
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



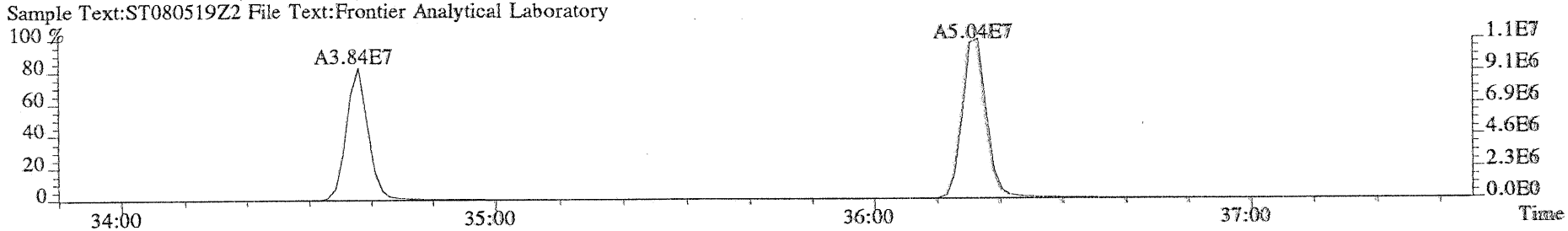
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



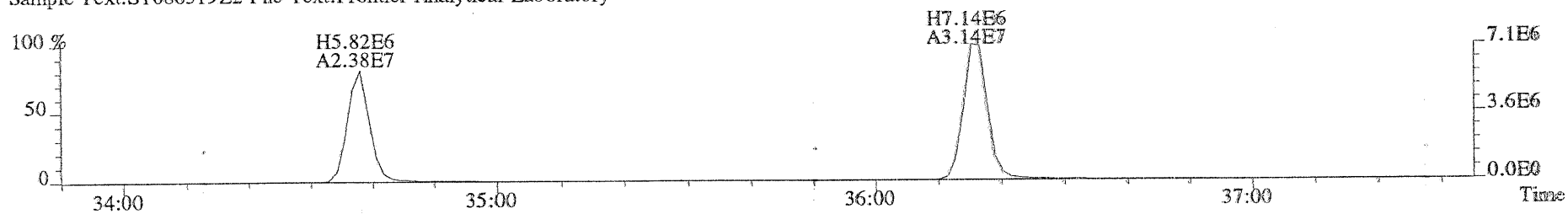
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



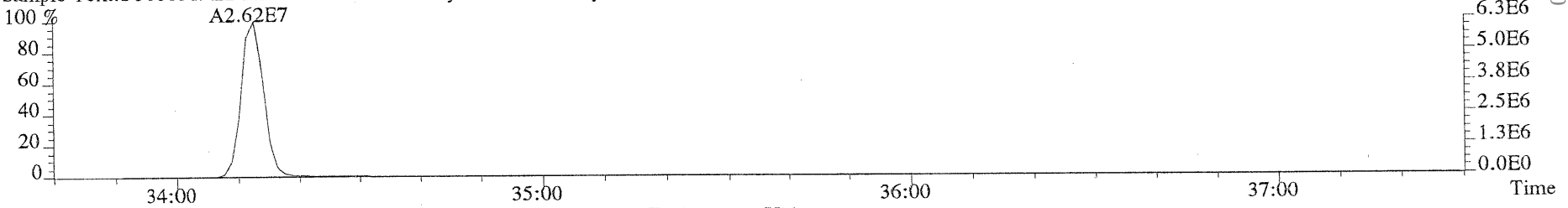
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



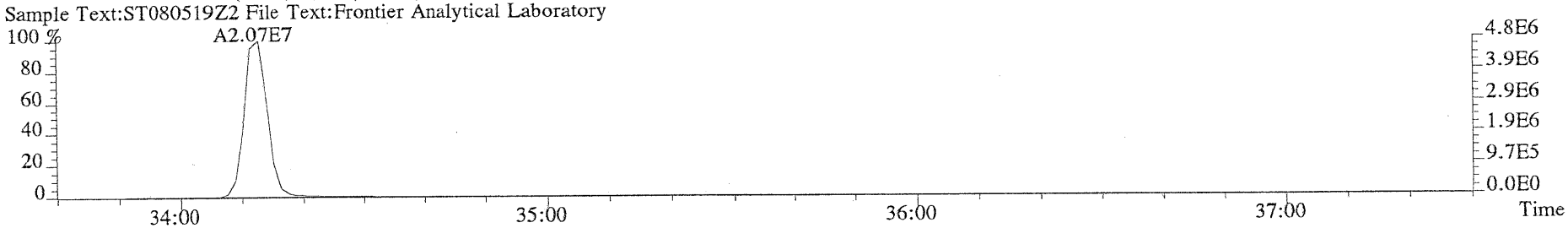
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



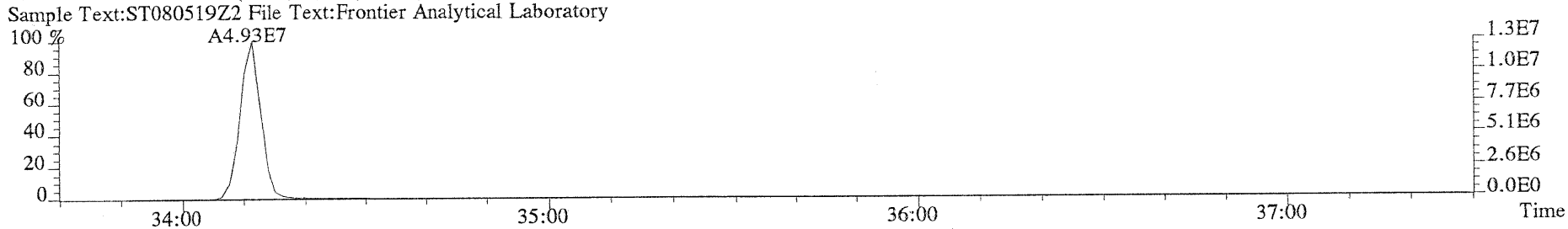
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



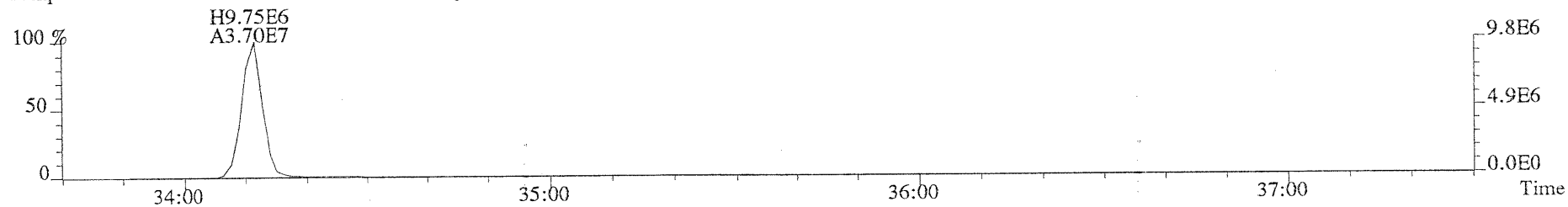
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



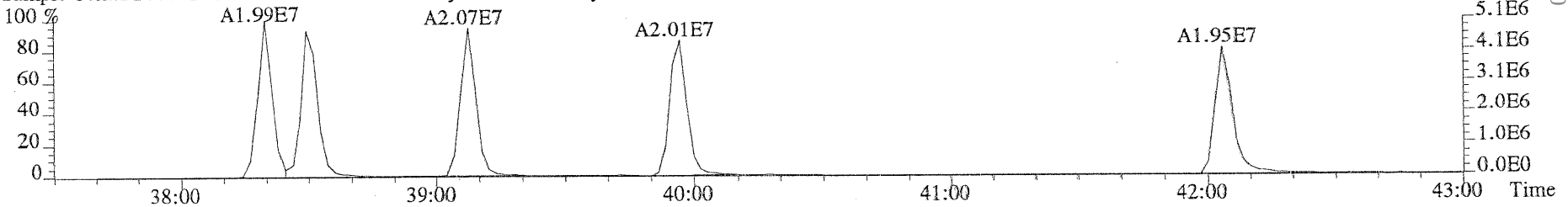
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



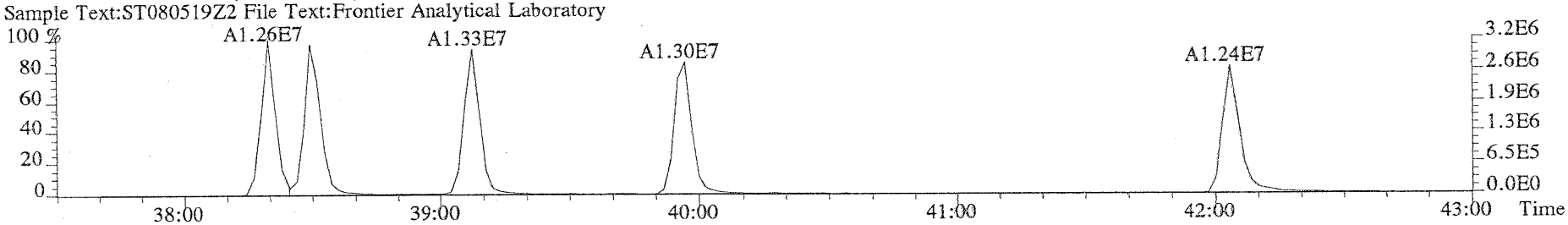
File:05AUG19Z #1-180 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



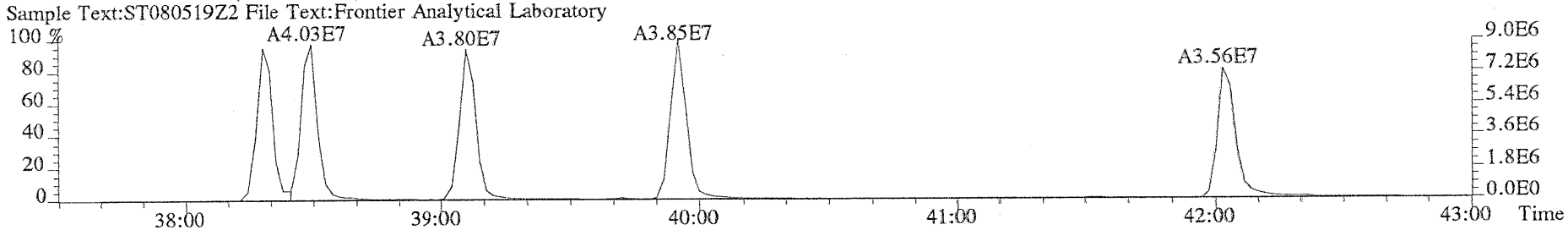
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



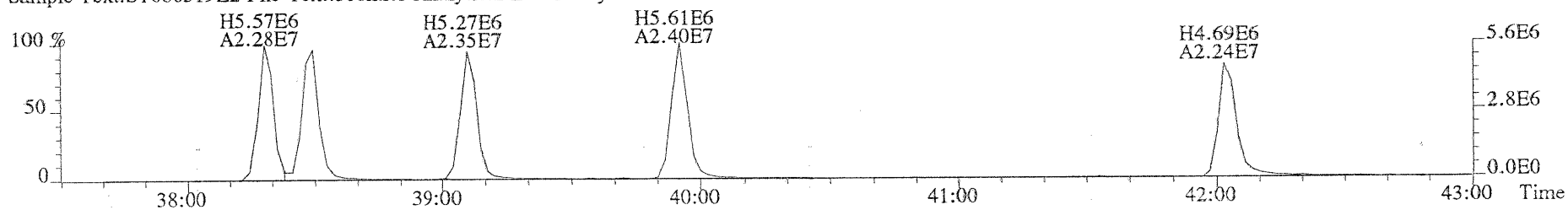
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



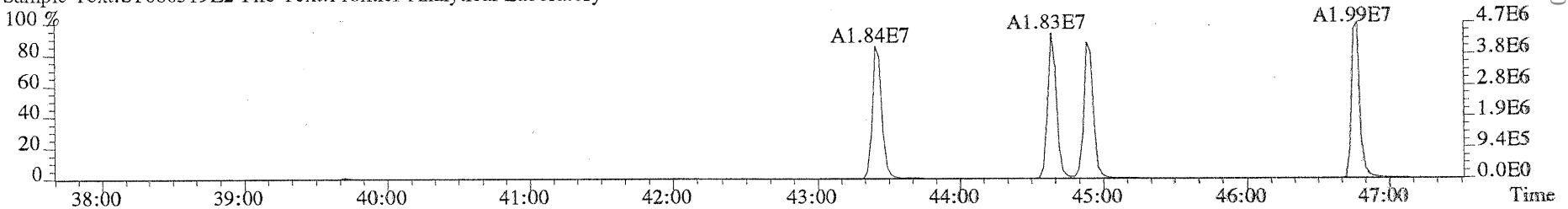
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



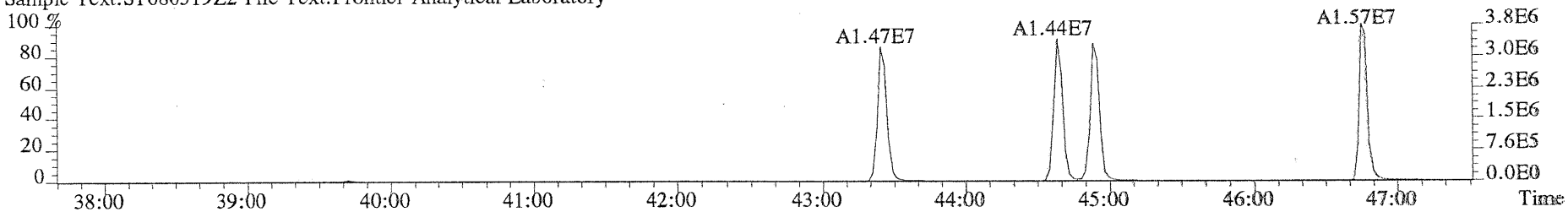
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



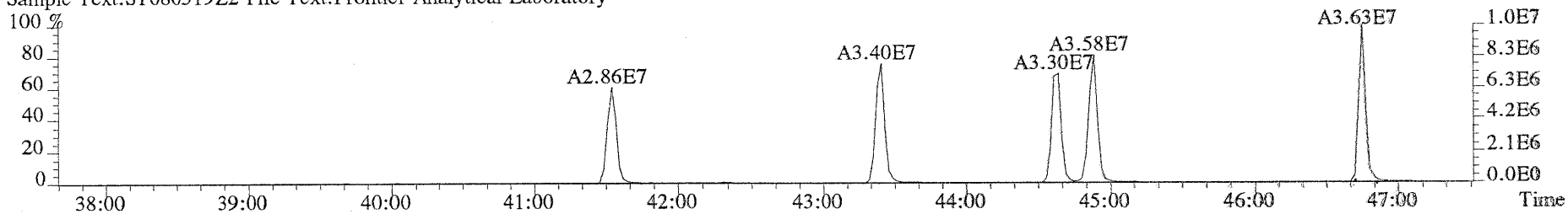
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



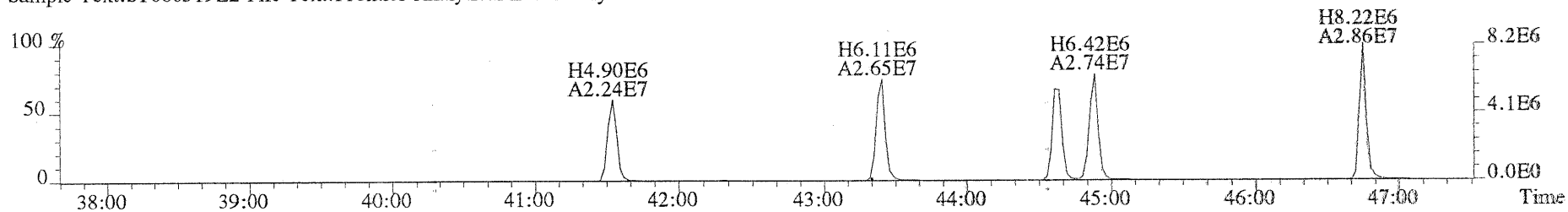
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



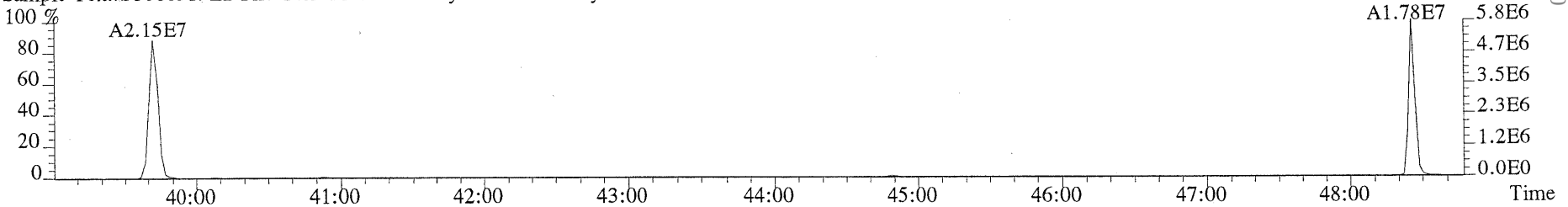
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



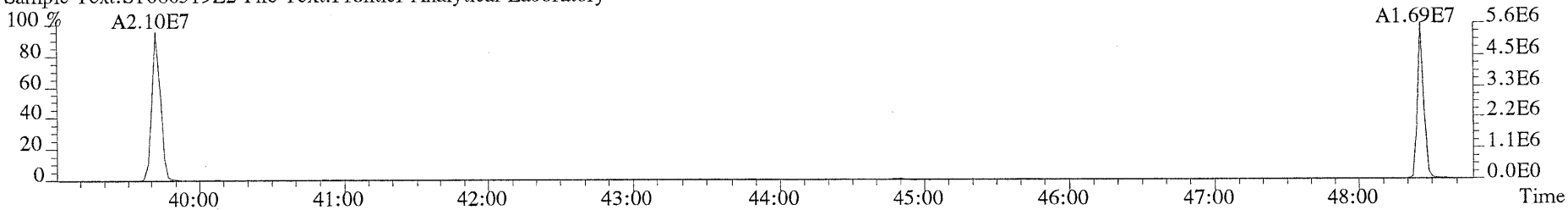
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



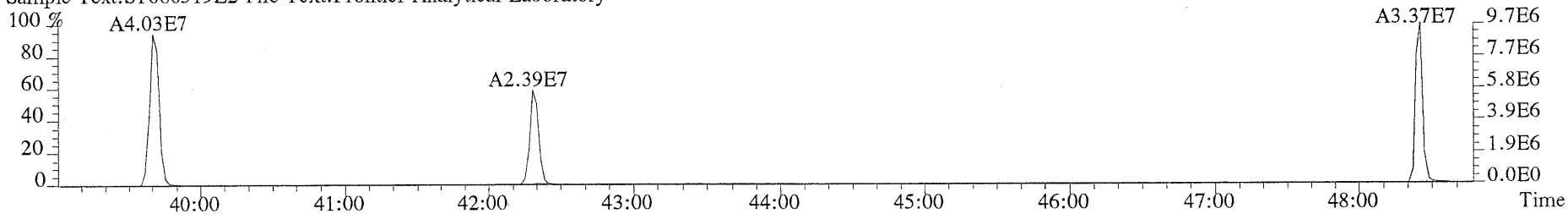
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



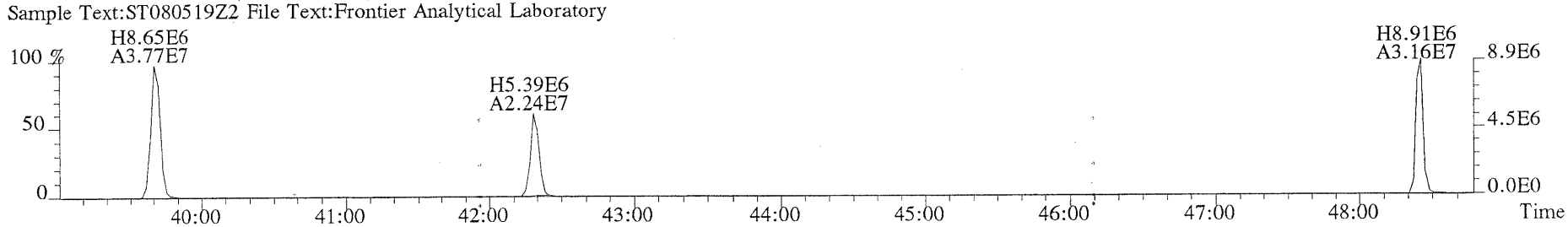
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



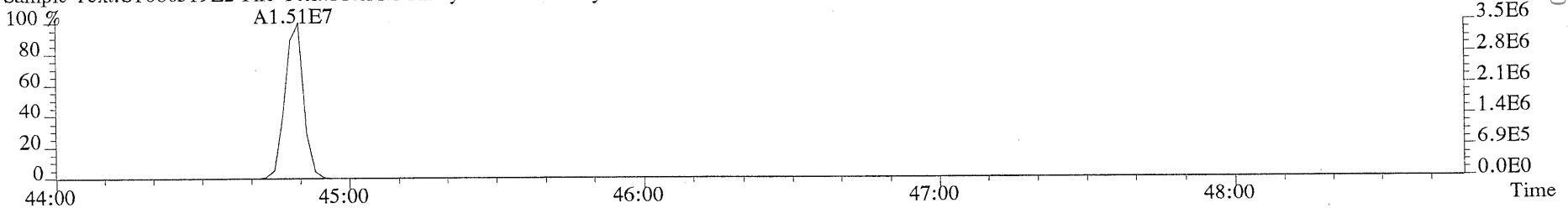
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



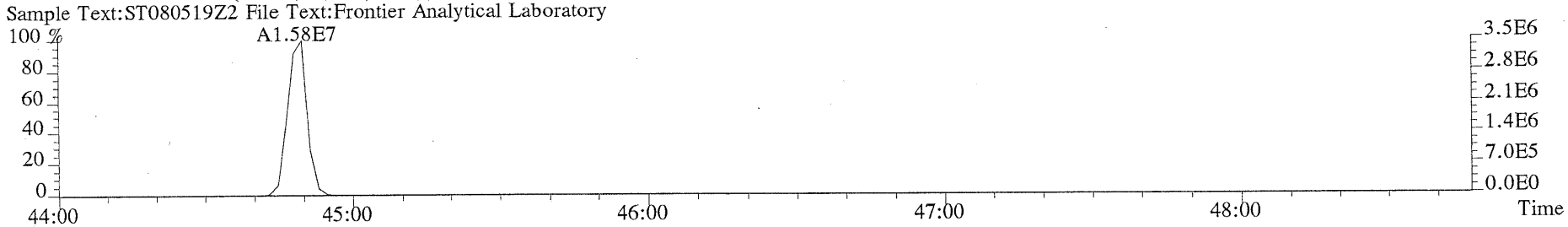
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



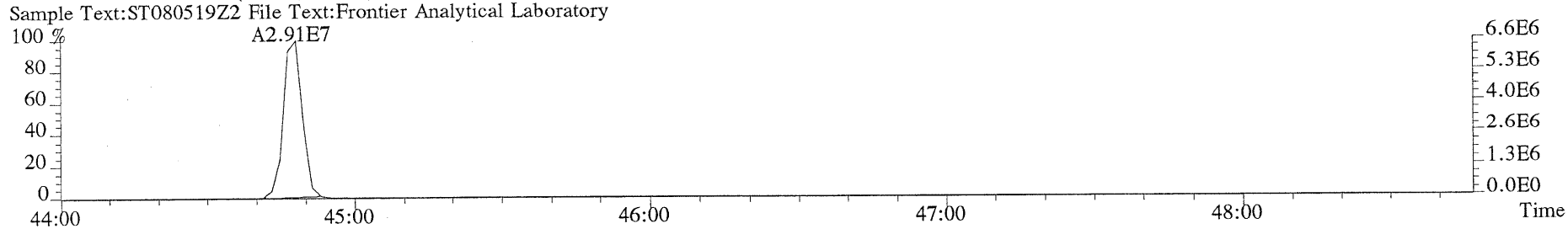
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



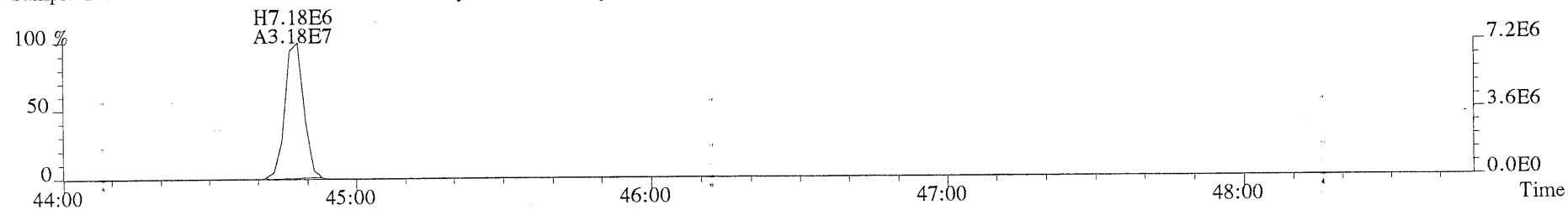
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



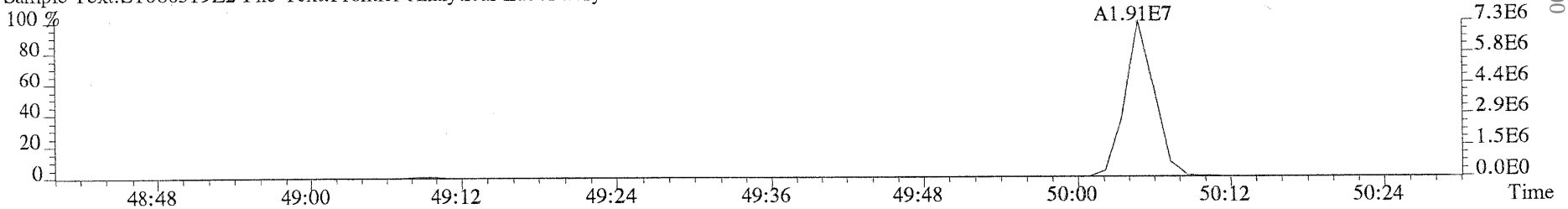
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



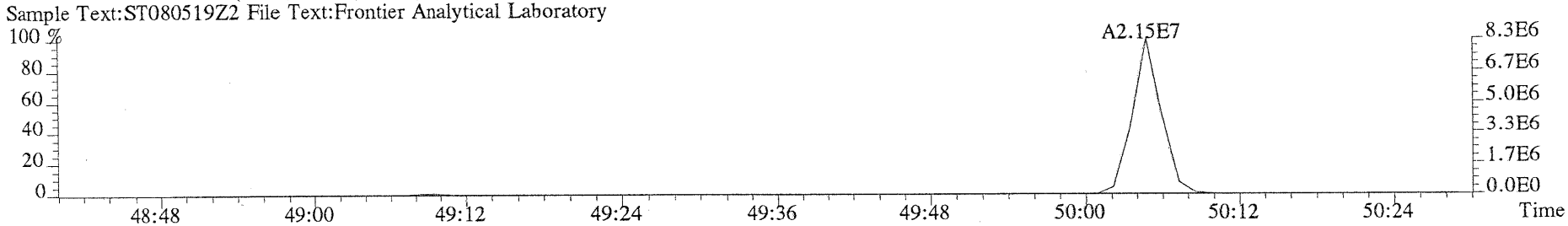
File:05AUG19Z #1-406 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



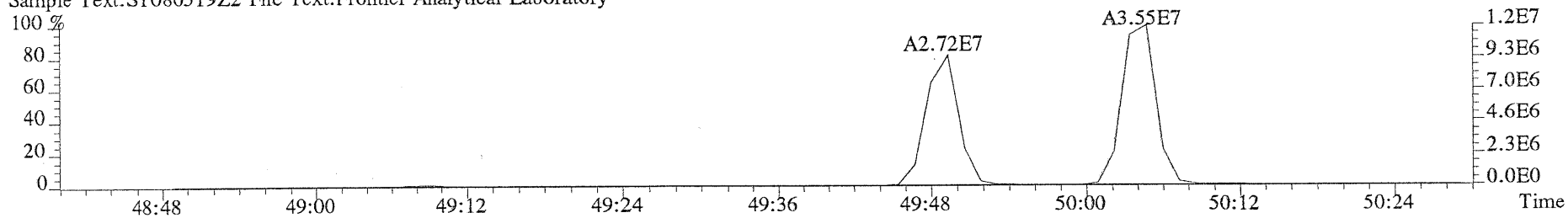
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



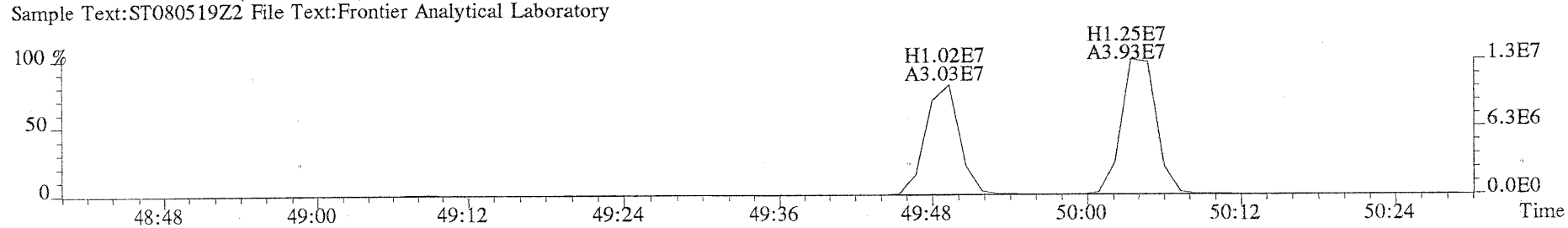
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



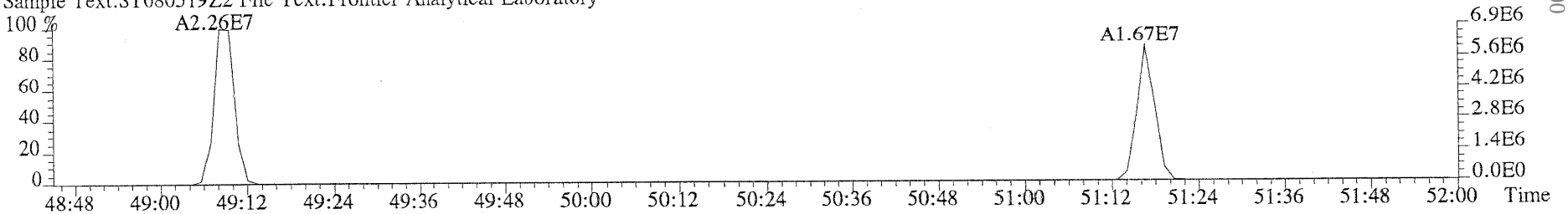
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



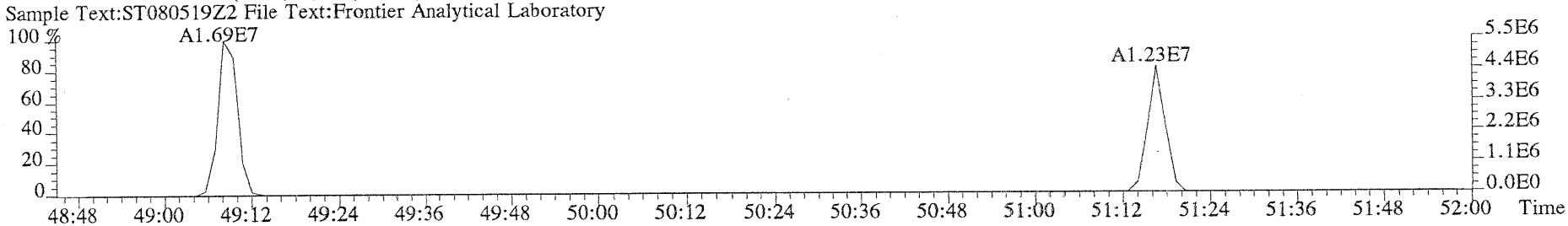
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



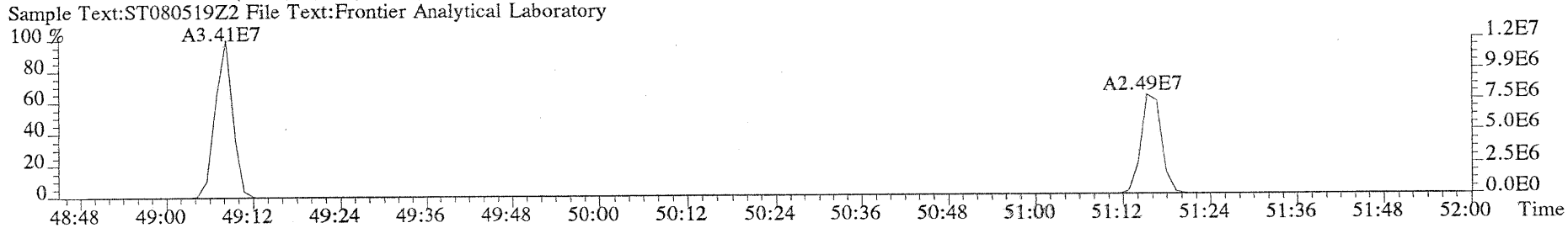
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



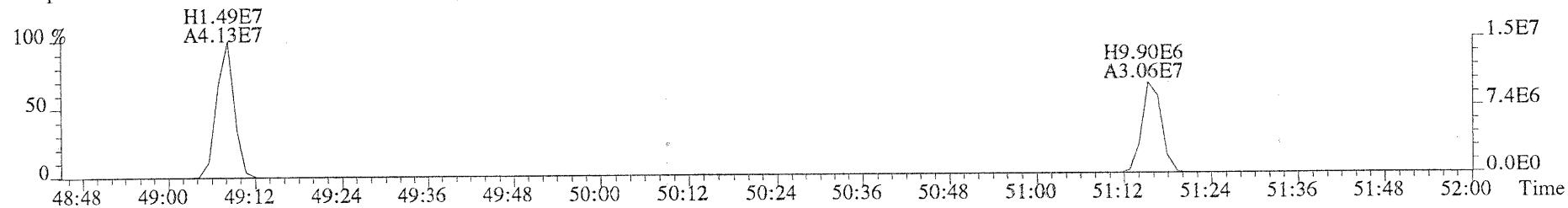
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



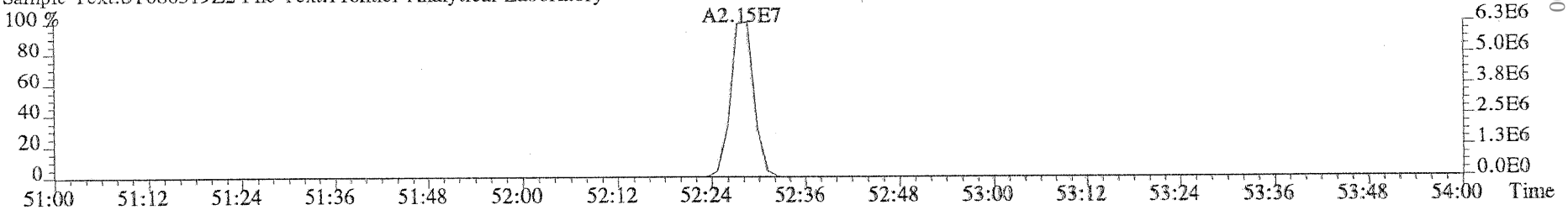
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



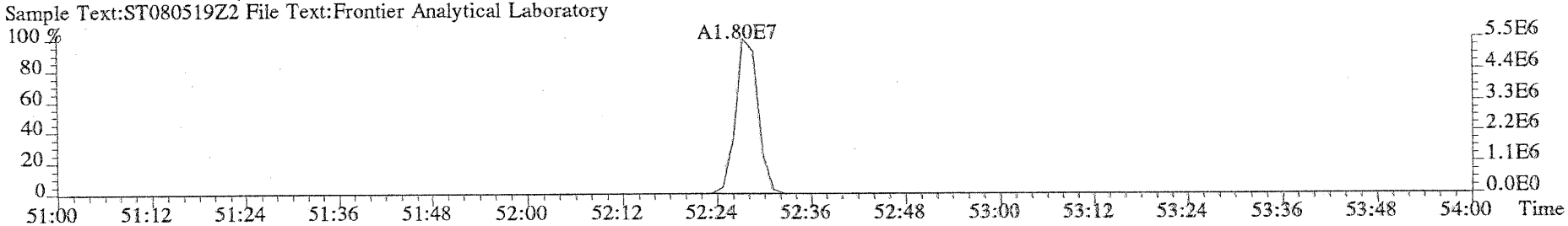
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



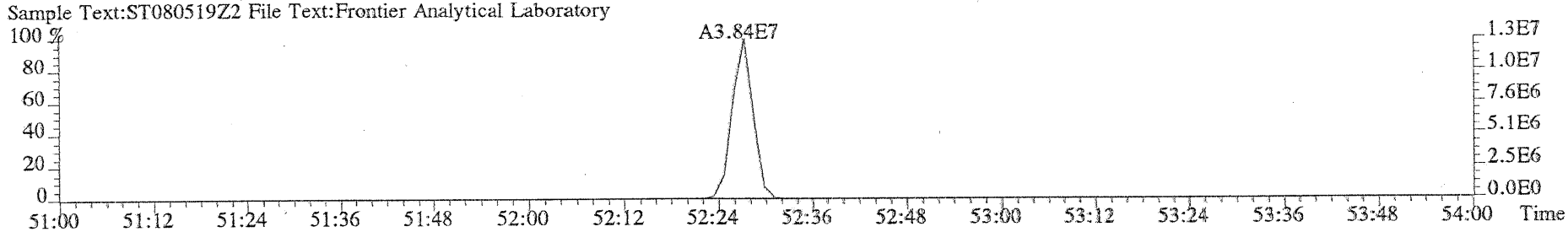
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



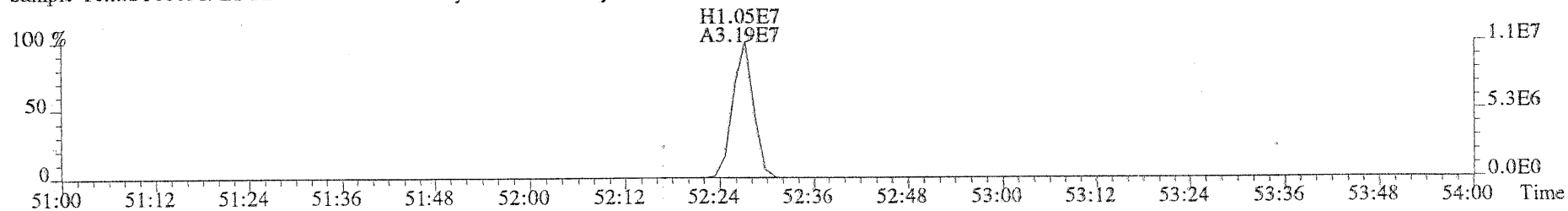
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%;F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory



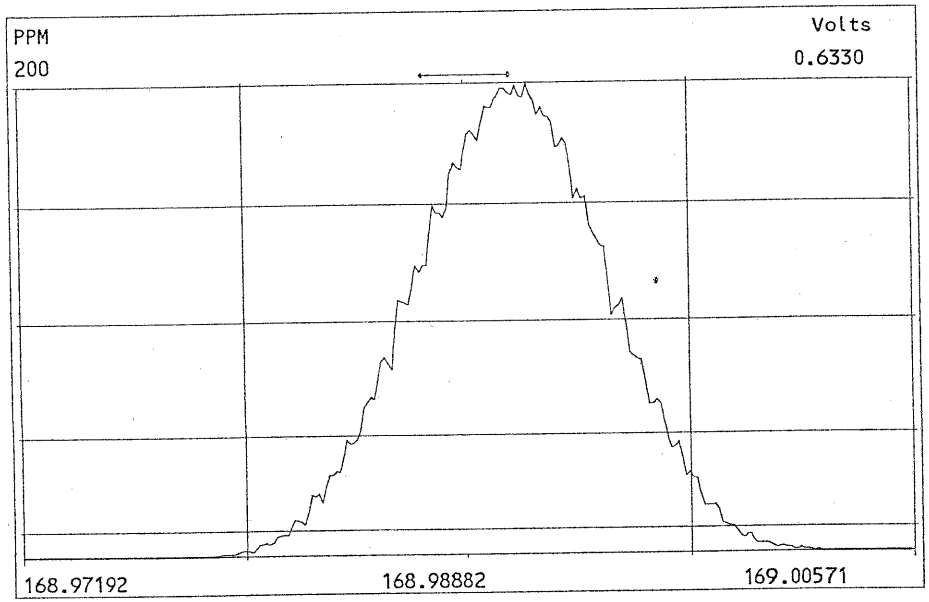
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory

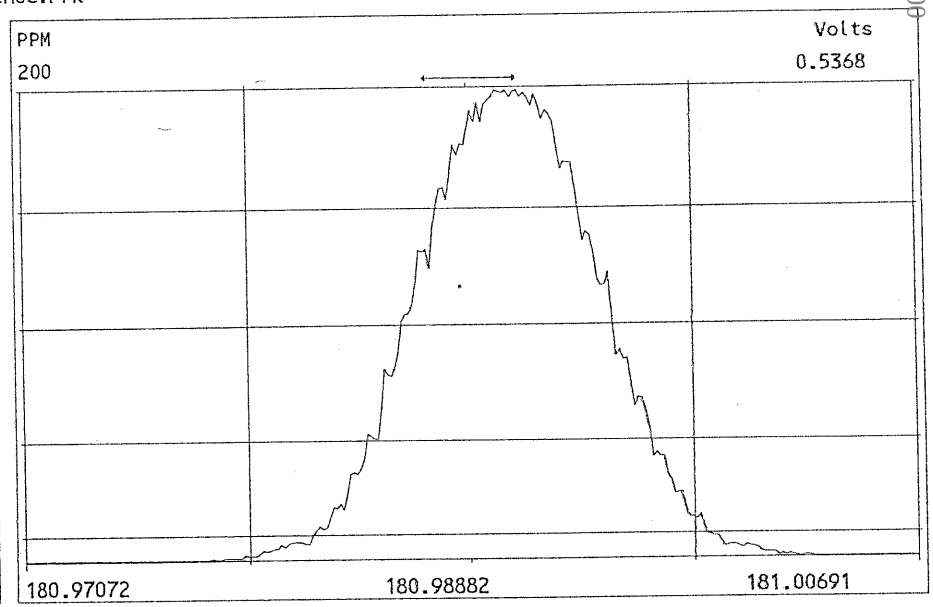


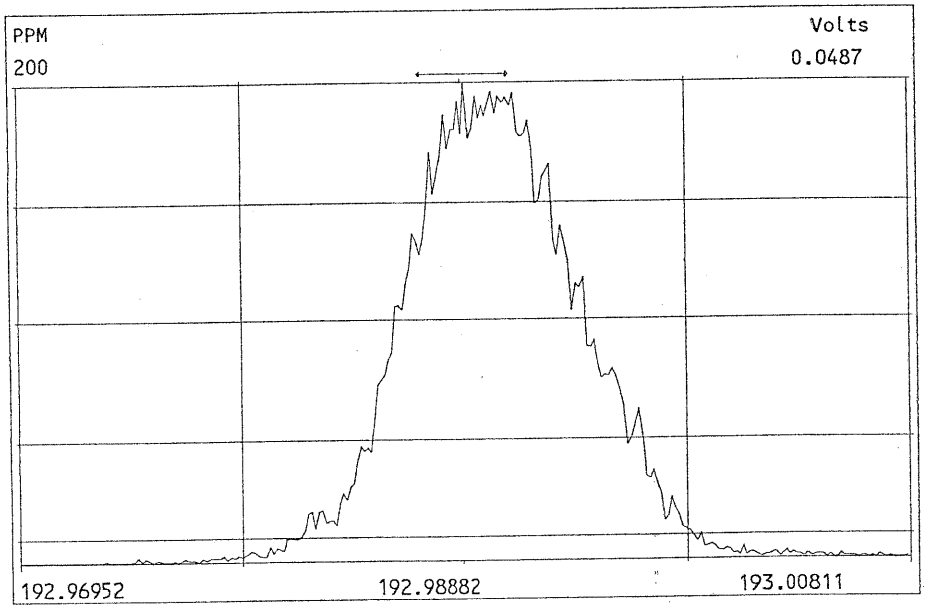
File:05AUG19Z #1-314 Acq: 6-AUG-2019 00:11:49 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080519Z2 File Text:Frontier Analytical Laboratory

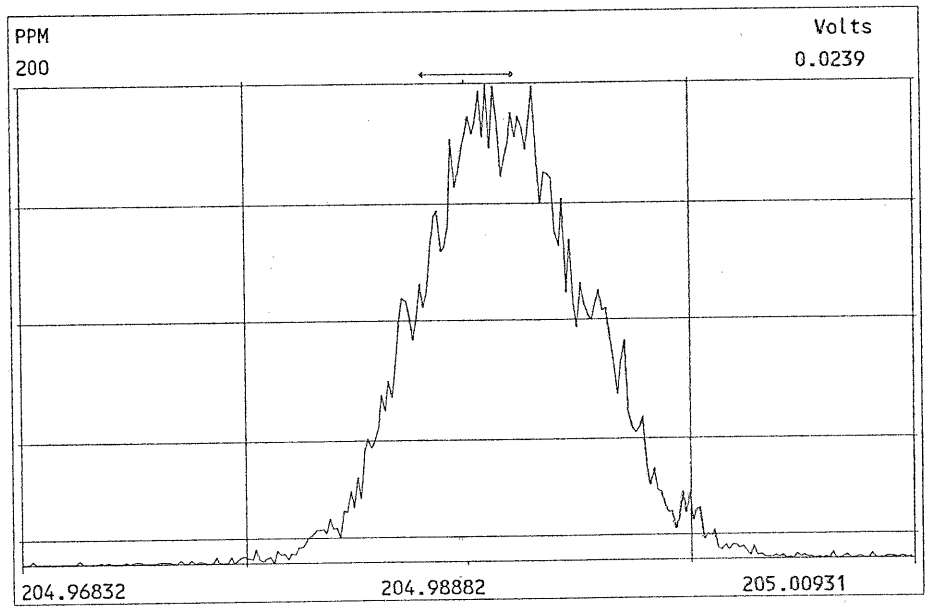


Peak Locate Examination: 6-AUG-2019:01:39 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

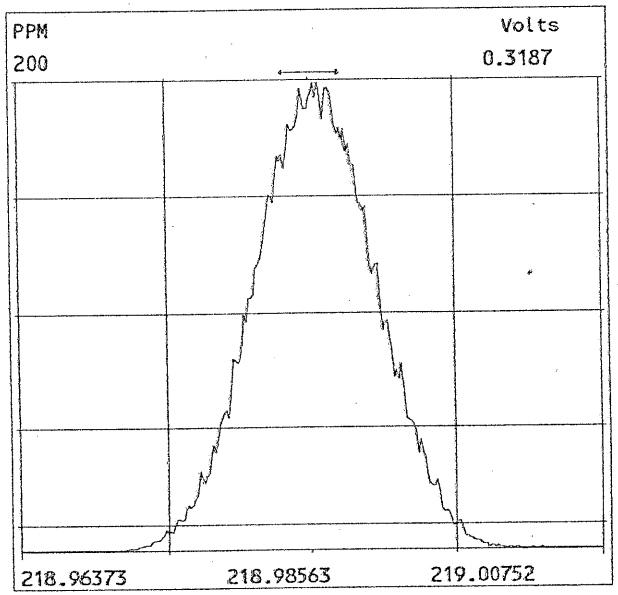


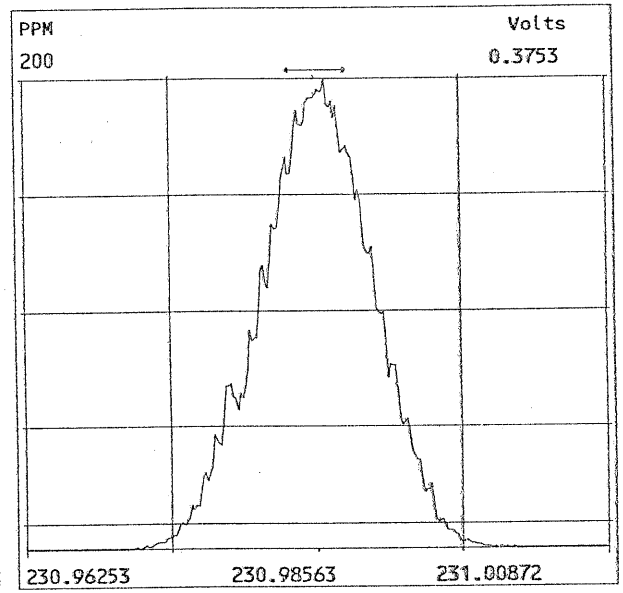


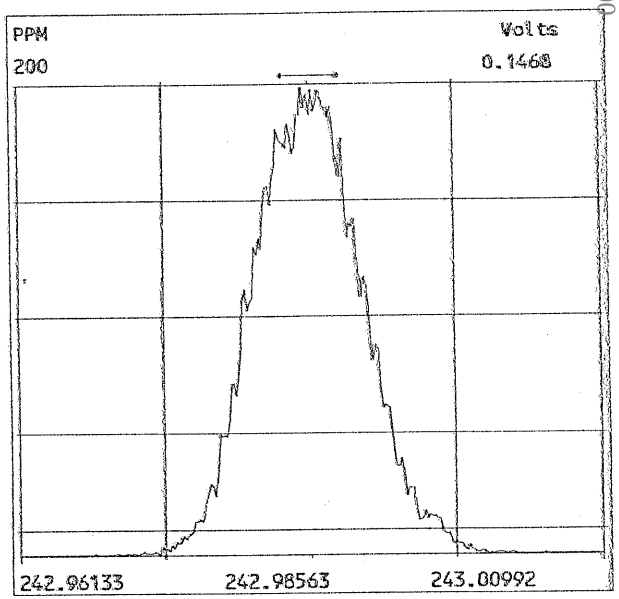


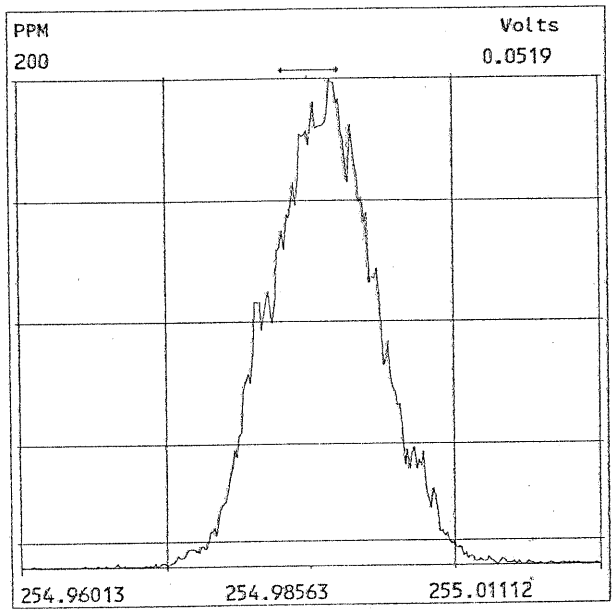


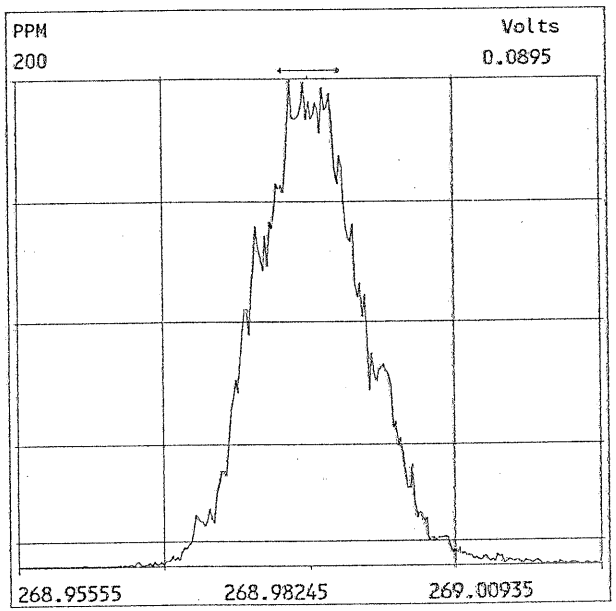
Peak Locate Examination: 6-AUG-2019:01:41 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

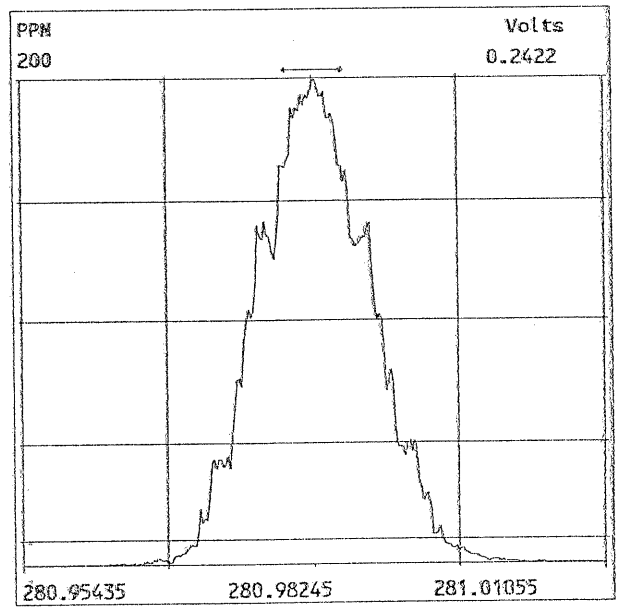




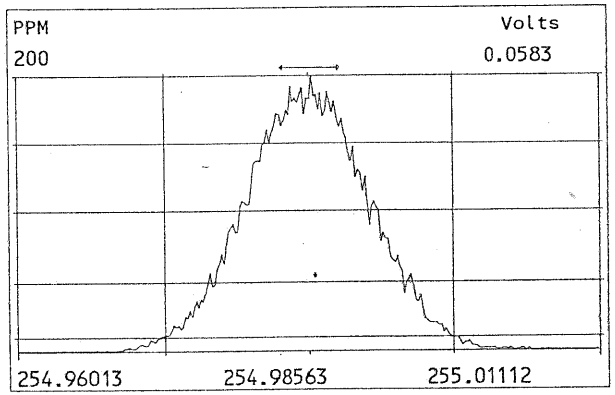


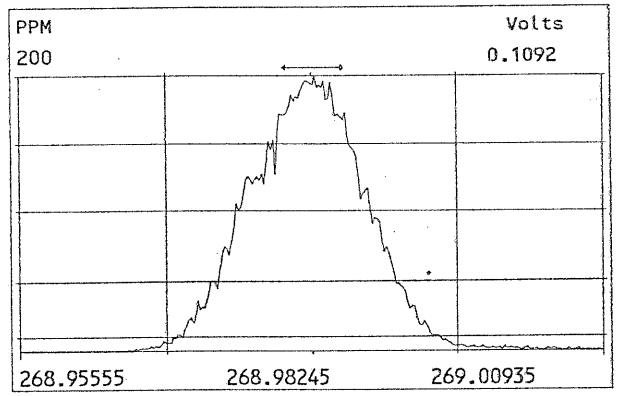


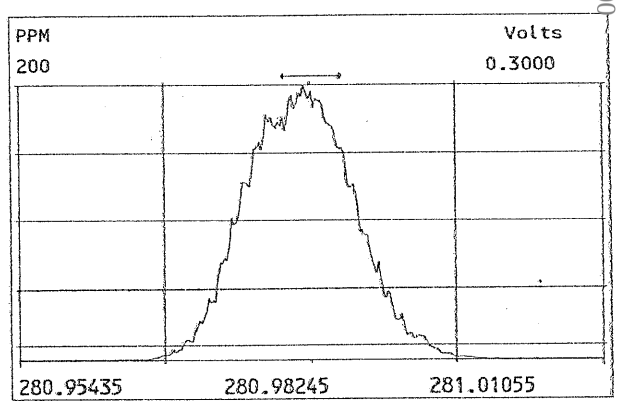


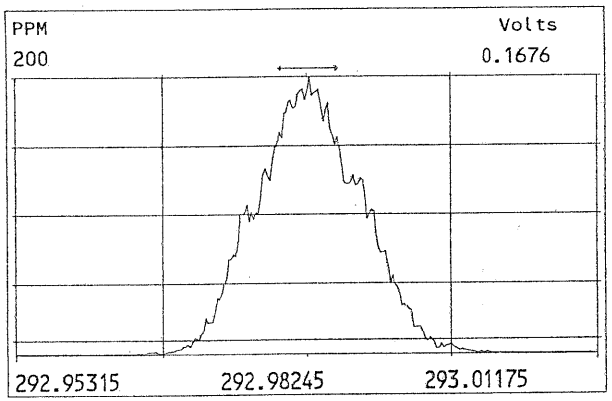


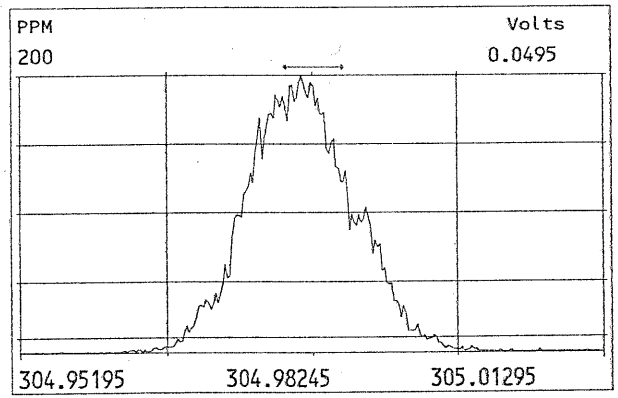
Peak Locate Examination: 6-AUG-2019:01:43 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

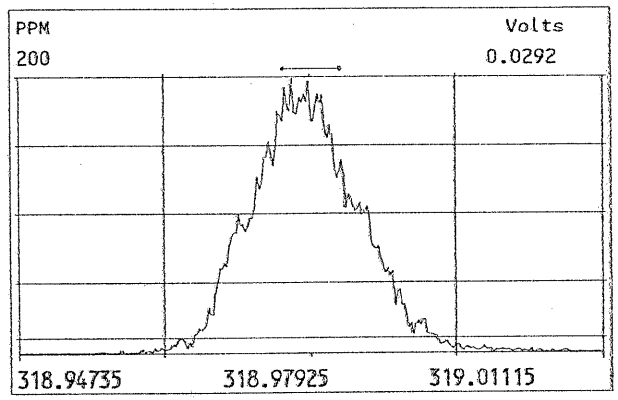


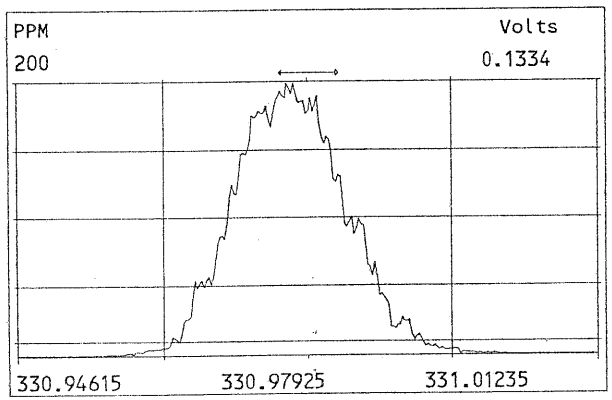


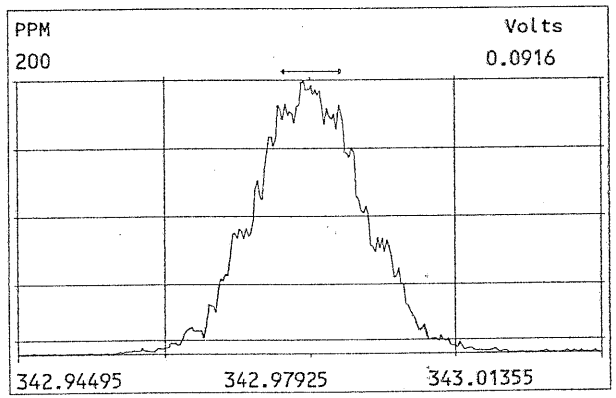




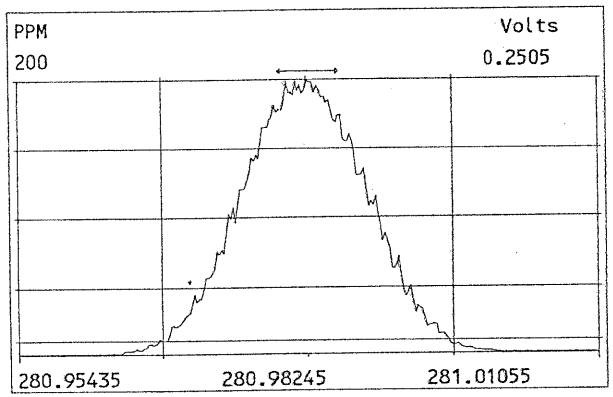


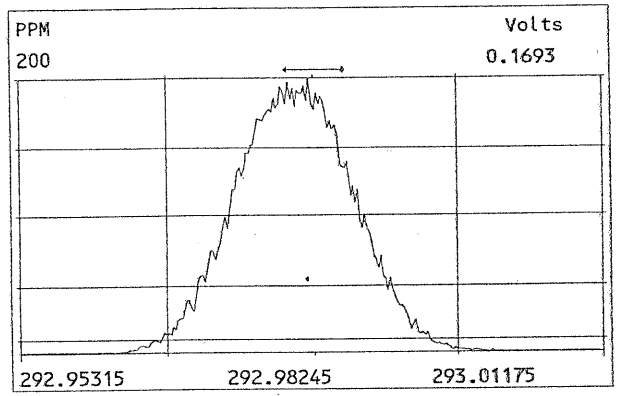


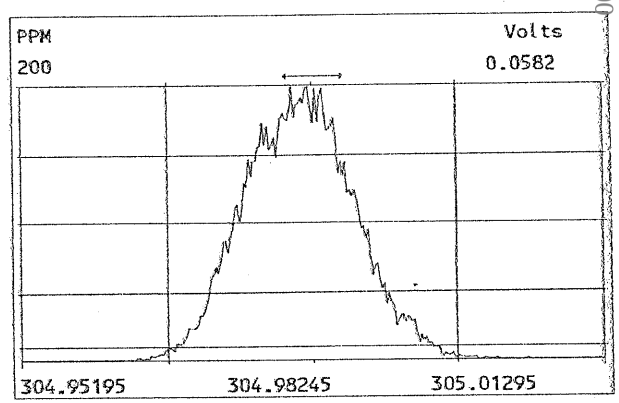


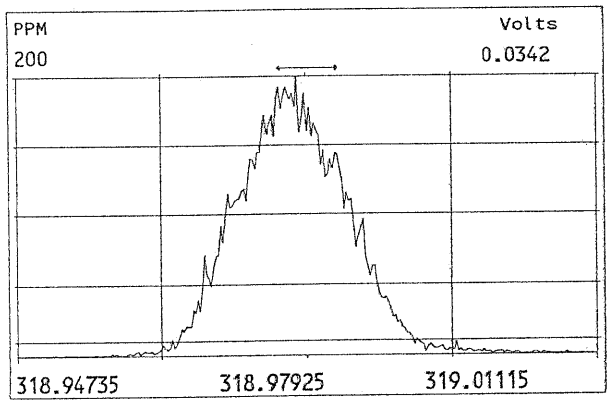


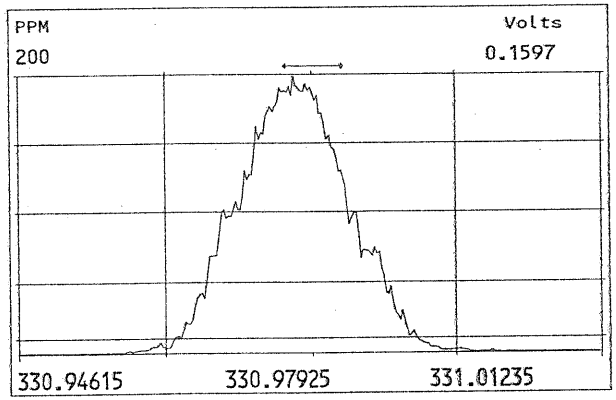
Peak Locate Examination: 6-AUG-2019:01:46 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

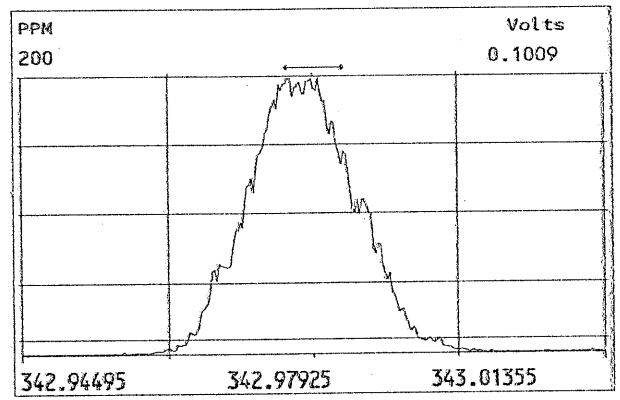


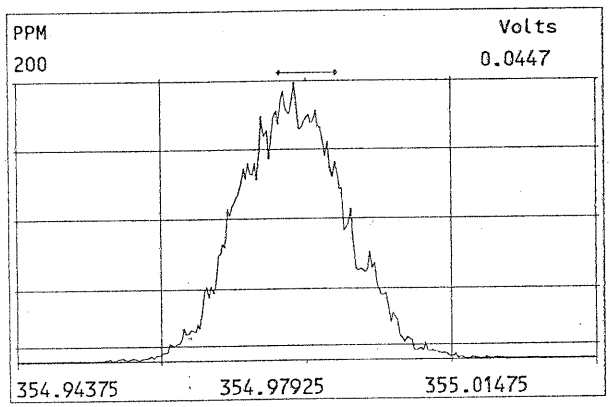


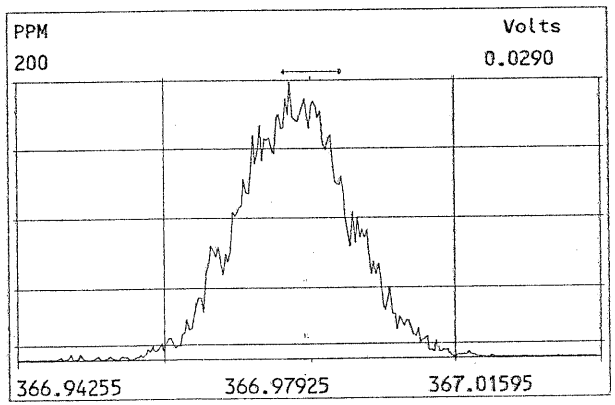


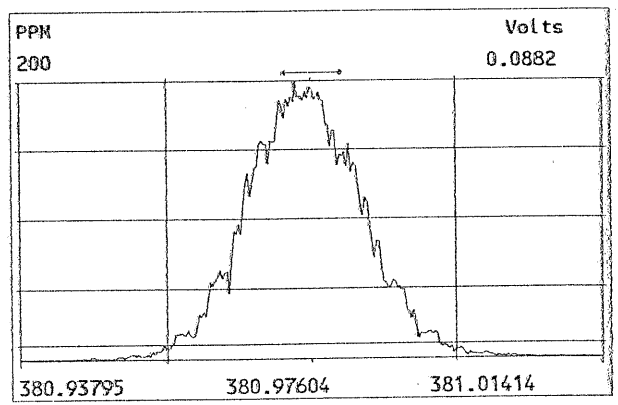




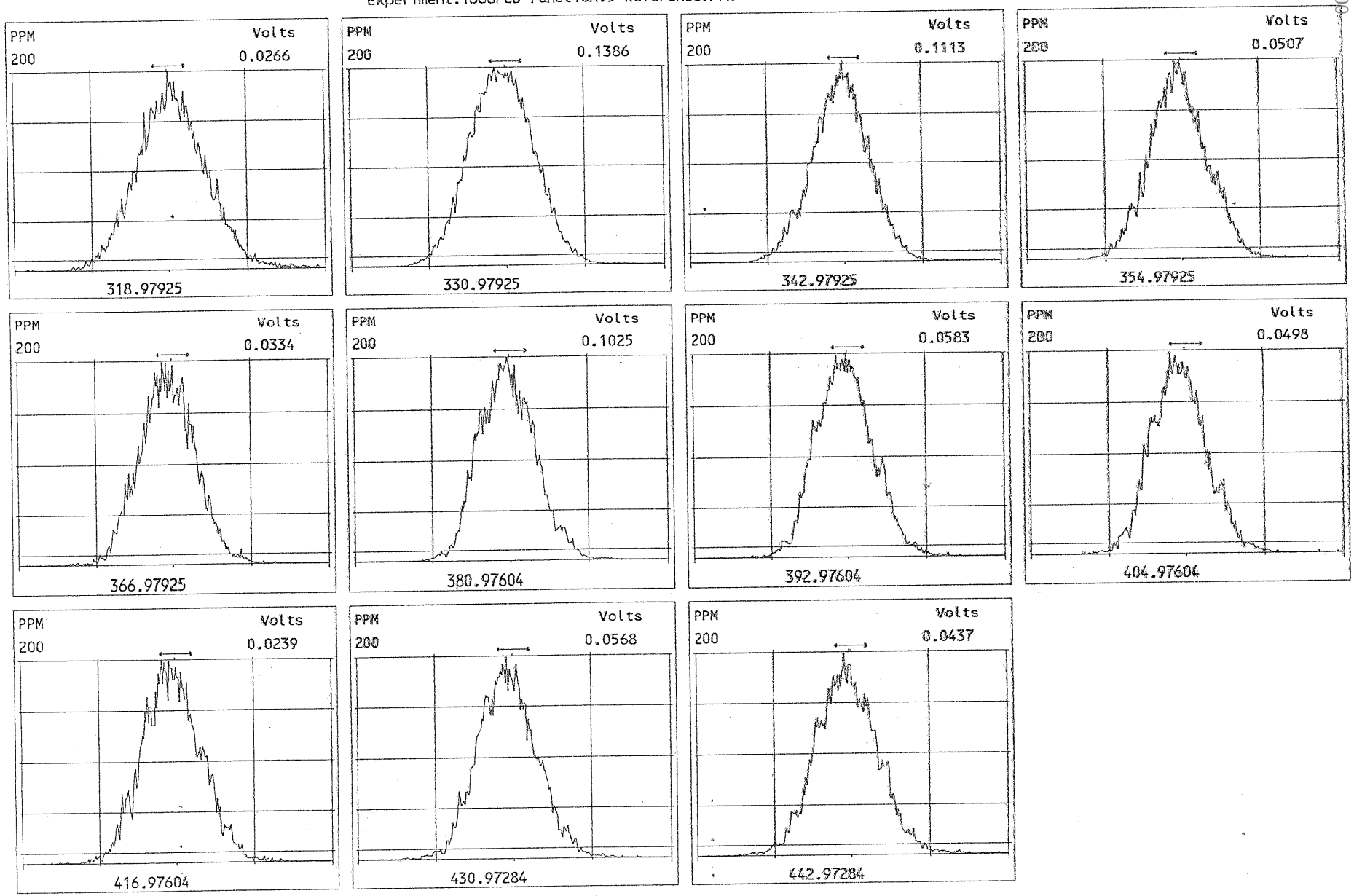
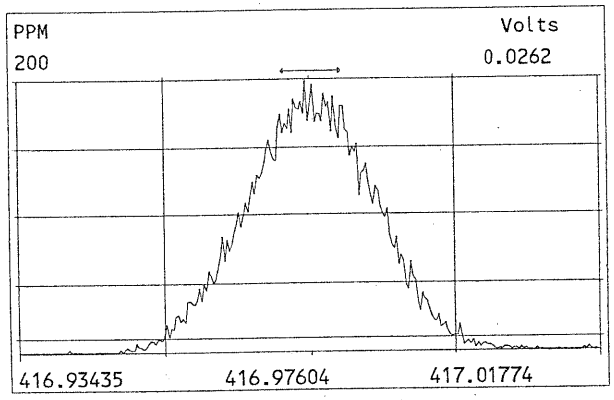
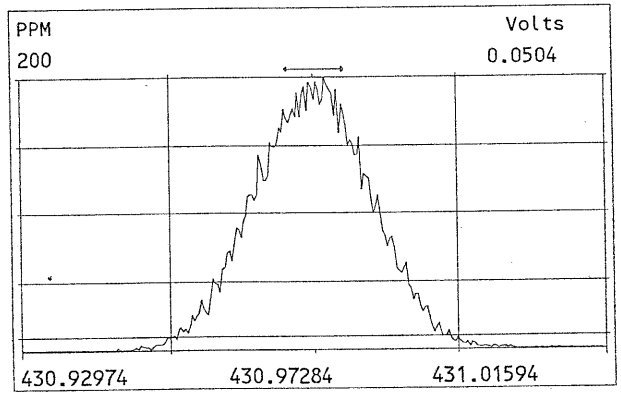
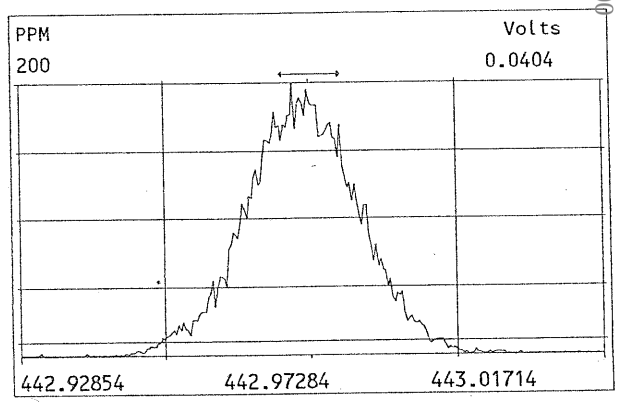
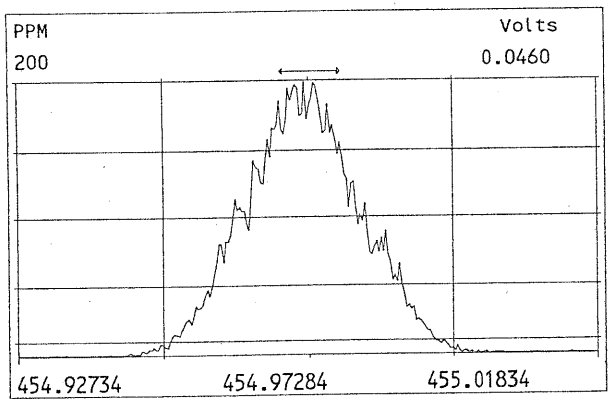
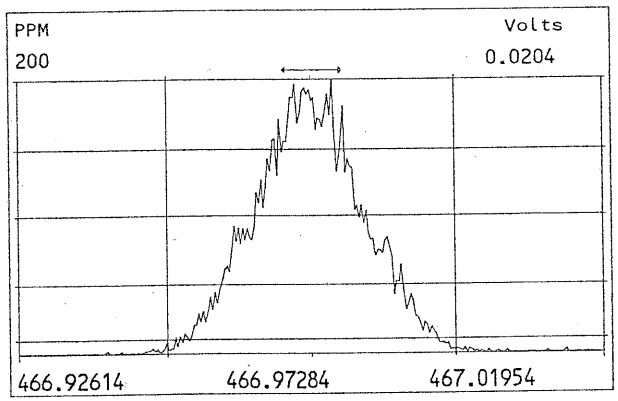
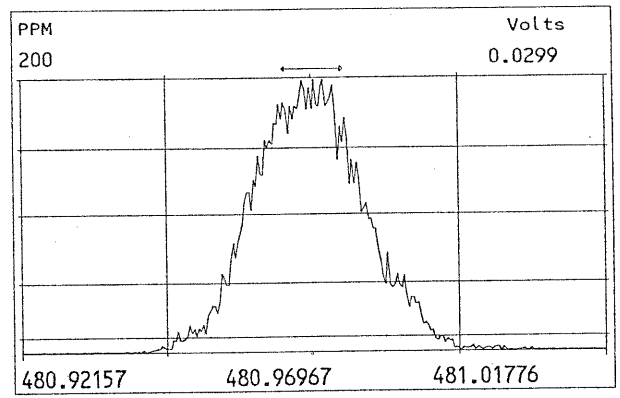
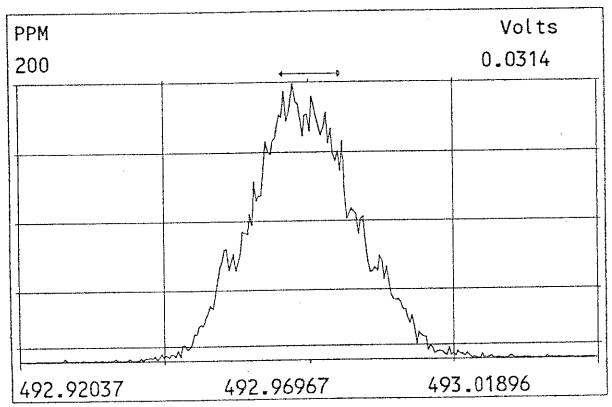
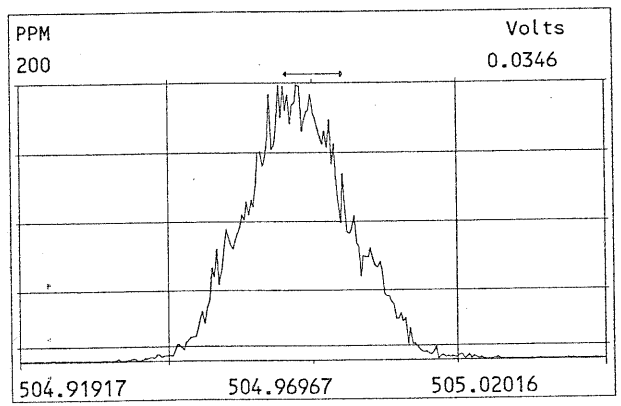
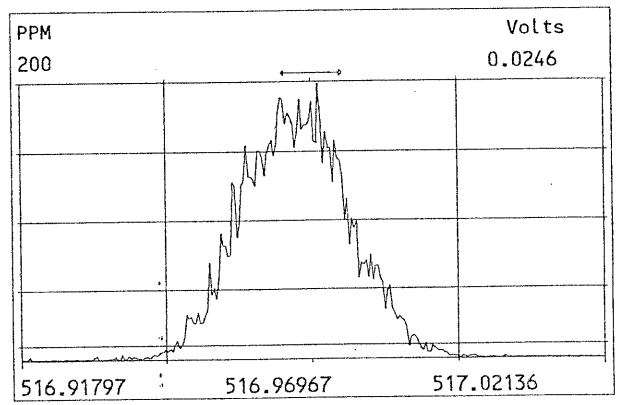








Peak Locate Examination: 6-AUG-2019:01:48 File:05AUG19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK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Experiment:1668PCB Function:6 Reference:PFK