August 1, 2018

Gretchen Heavner, Ph.D.
Floyd Snider
601 Union St. Ste. 600
Seattle, WA 98101

Dear Dr. Heavner,

Enclosed are the results for Frontier Analytical Laboratory project **11704**. These results correspond to your project **LDW ENR/AC Pilot Study** and project number **LY15160310**. Twenty hexane solvent samples were received on 7/3/2018 in good condition. Per your request, the following samples were prepared however not analyzed; 11704-001-SA, 11704-005-SA, 11704-006-SA, 11704-011-SA, 11704-012-SA, 11704-016-SA, and 11704-017-SA (Floyd Snider IDs: LDW-Y1-SU-ENR+AC-CE-S010, LDW-Y1-SU-ENR-CD-S010, LDW-Y1-SU-ENR-CE-S010, LDW-Y1-IN-ENR+AC-CD-S010, LDW-Y1-IN-ENR+AC-CE-S010, LDW-Y1-IN-ENR-CD-S010, and LDW-Y1-IN-ENR-CE-S010 respectively).The remaining thirteen samples 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 **11704**.

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 project-sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and the sample photos. The Laboratory Raw Data section contains our project request sheet, a percent solids 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 **11704**, 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: **11704**

Received on: **07/03/2018** Project Due: **08/01/2018** Storage: **R-3**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
11704-001-SA	0	LY15160310	LDW-Y1-SU-ENR+AC-CE-S010	EPA 1668 PCB	Solvent	06/30/2018	12:20 pm	06/30/2019
11704-002-SA	0	LY15160310	LDW-Y1-SU-ENR-CA-S010	EPA 1668 PCB	Solvent	06/30/2018	01:35 pm	06/30/2019
11704-003-SA	0	LY15160310	LDW-Y1-SU-ENR-CB-S010	EPA 1668 PCB	Solvent	06/30/2018	01:41 pm	06/30/2019
11704-004-SA	0	LY15160310	LDW-Y1-SU-ENR-CC-S010	EPA 1668 PCB	Solvent	06/30/2018	01:50 pm	06/30/2019
11704-005-SA	0	LY15160310	LDW-Y1-SU-ENR-CD-S010	EPA 1668 PCB	Solvent	06/30/2018	01:57 pm	06/30/2019
11704-006-SA	0	LY15160310	LDW-Y1-SU-ENR-CE-S010	EPA 1668 PCB	Solvent	06/30/2018	02:03 pm	06/30/2019
11704-007-SA	0	LY15160310	LDW-Y1-SU-S010-LCB	EPA 1668 PCB	Solvent	06/30/2018	02:13 pm	06/30/2019
11704-008-SA	0	LY15160310	LDW-Y1-IN-ENR+AC-CA-S010	EPA 1668 PCB	Solvent	06/30/2018	04:17 pm	06/30/2019
11704-009-SA	0	LY15160310	LDW-Y1-IN-ENR+AC-CB-S010	EPA 1668 PCB	Solvent	06/30/2018	04:23 pm	06/30/2019
11704-010-SA	0	LY15160310	LDW-Y1-IN-ENR+AC-CC-S010	EPA 1668 PCB	Solvent	06/30/2018	04:30 pm	06/30/2019
11704-011-SA	0	LY15160310	LDW-Y1-IN-ENR+AC-CD-S010	EPA 1668 PCB	Solvent	06/30/2018	04:36 pm	06/30/2019
11704-012-SA	0	LY15160310	LDW-Y1-IN-ENR+AC-CE-S010	EPA 1668 PCB	Solvent	06/30/2018	04:43 pm	06/30/2019
11704-013-SA	0	LY15160310	LDW-Y1-IN-ENR-CA-S010	EPA 1668 PCB	Solvent	06/30/2018	04:59 pm	06/30/2019
11704-014-SA	0	LY15160310	LDW-Y1-IN-ENR-CB-S010	EPA 1668 PCB	Solvent	06/30/2018	05:07 pm	06/30/2019
11704-015-SA	0	LY15160310	LDW-Y1-IN-ENR-CC-S010	EPA 1668 PCB	Solvent	06/30/2018	05:13 pm	06/30/2019
11704-016-SA	0	LY15160310	LDW-Y1-IN-ENR-CD-S010	EPA 1668 PCB	Solvent	06/30/2018	05:23 pm	06/30/2019
11704-017-SA	0	LY15160310	LDW-Y1-IN-ENR-CE-S010	EPA 1668 PCB	Solvent	06/30/2018	05:30 pm	06/30/2019
11704-018-SA	0	LY15160310	LDW-Y1-SC-S010-TB	EPA 1668 PCB	Solvent	06/30/2018	04:04 pm	06/30/2019
11704-019-SA	0	LY15160310	LDW-Y1-SU-S010-TB	EPA 1668 PCB	Solvent	06/30/2018	03:22 pm	06/30/2019
11704-020-SA	0	LY15160310	LDW-Y1-IN-S010-TB	EPA 1668 PCB	Solvent	06/30/2018	03:38 pm	06/30/2019

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EPA Method 1668
PCBs

FAL ID: 11704-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018
Total Conc: 0.0

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.31			PCB-51	ND	3.53		
PCB-2	ND	2.60			PCB-52	ND	3.03	C	69
PCB-3	ND	2.54			PCB-53	ND	3.59		
PCB-4	ND	3.60			PCB-54	ND	2.74		
PCB-5	ND	3.05			PCB-55	ND	2.73		
PCB-6	ND	3.08			PCB-56	ND	3.59	C	60
PCB-7	ND	3.02			PCB-57	ND	2.88		
PCB-8	ND	3.07			PCB-58	ND	2.77		
PCB-9	ND	3.08			PCB-59	-	-	C042	42
PCB-10	ND	3.44			PCB-60	-	-	C056	56
PCB-11	ND	3.27			PCB-61	ND	2.66	C	70
PCB-12	ND	3.14			PCB-62	ND	2.85		
PCB-13	ND	3.18			PCB-63	ND	2.88		
PCB-14	ND	3.21			PCB-64	-	-	C041	41/71/72
PCB-15	ND	3.17			PCB-65	ND	2.99		
PCB-16	ND	3.21			PCB-66	ND	2.71	C	76
PCB-17	ND	3.53			PCB-67	ND	2.93		
PCB-18	ND	3.78			PCB-68	ND	2.61		
PCB-19	ND	3.62			PCB-69	-	-	C052	52
PCB-20	ND	2.88	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	2.94			PCB-72	-	-	C041	41/64/71
PCB-23	ND	2.92			PCB-73	ND	2.75		
PCB-24	ND	2.72			PCB-74	ND	2.70		
PCB-25	ND	2.48			PCB-75	-	-	C048	48
PCB-26	ND	3.07			PCB-76	-	-	C066	66
PCB-27	ND	2.79			PCB-77	ND	3.45		
PCB-28	ND	2.56			PCB-78	ND	3.55		
PCB-29	ND	2.92			PCB-79	ND	3.41		
PCB-30	ND	2.69			PCB-80	ND	2.52		
PCB-31	ND	3.10			PCB-81	ND	3.44		
PCB-32	ND	3.17			PCB-82	ND	8.66		
PCB-33	-	-	C020	20/21	PCB-83	ND	6.28	C	112
PCB-34	ND	3.15			PCB-84	ND	7.08	C	92
PCB-35	ND	3.29			PCB-85	ND	6.10	C	116
PCB-36	ND	3.14			PCB-86	ND	6.14		
PCB-37	ND	2.79			PCB-87	ND	5.97	C	117/125
PCB-38	ND	2.94			PCB-88	ND	5.59	C	91
PCB-39	ND	3.02			PCB-89	ND	7.44		
PCB-40	ND	4.64			PCB-90	ND	6.36	C	101
PCB-41	ND	2.85	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	3.08	C	59	PCB-92	-	-	C084	84
PCB-43	ND	3.73	C	49	PCB-93	ND	6.00		
PCB-44	ND	4.01			PCB-94	ND	6.57		
PCB-45	ND	4.17			PCB-95	ND	5.46		
PCB-46	ND	4.27			PCB-96	ND	4.83		
PCB-47	ND	2.84			PCB-97	ND	5.94		
PCB-48	ND	3.08	C	75	PCB-98	ND	10.9	C	102
PCB-49	-	-	C043	43	PCB-99	ND	5.78		
PCB-50	ND	3.65			PCB-100	ND	5.51		

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EPA Method 1668
PCBs

FAL ID: 11704-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	4.99		
PCB-102	-	-	C098	98	PCB-152	ND	4.84		
PCB-103	ND	5.64			PCB-153	ND	4.19		
PCB-104	ND	4.36			PCB-154	ND	5.26		
PCB-105	ND	6.64			PCB-155	ND	4.14		
PCB-106	ND	7.04	C	118	PCB-156	ND	4.13		
PCB-107	ND	6.54	C	108	PCB-157	ND	3.64		
PCB-108	-	-	C107	107	PCB-158	ND	3.59	C	160
PCB-109	ND	5.26			PCB-159	ND	3.55		
PCB-110	ND	4.51			PCB-160	-	-	C158	158
PCB-111	ND	4.35	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.63			PCB-163	-	-	C138	138/164
PCB-114	ND	6.48			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.92		
PCB-117	-	-	C087	87/125	PCB-167	ND	3.98		
PCB-118	-	-	C	106	PCB-168	ND	3.67		
PCB-119	ND	5.31			PCB-169	ND	3.75		
PCB-120	ND	5.32			PCB-170	ND	3.78		
PCB-121	ND	5.38			PCB-171	ND	3.43		
PCB-122	ND	6.40			PCB-172	ND	3.68		
PCB-123	ND	5.46			PCB-173	ND	3.65		
PCB-124	ND	7.75			PCB-174	ND	3.29		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.31		
PCB-126	ND	7.54			PCB-176	ND	2.57		
PCB-127	ND	7.11			PCB-177	ND	3.70		
PCB-128	ND	4.32	C	162	PCB-178	ND	3.55		
PCB-129	ND	5.51			PCB-179	ND	2.54		
PCB-130	ND	5.58			PCB-180	ND	2.68		
PCB-131	ND	4.68	C	133	PCB-181	ND	3.24		
PCB-132	ND	4.25	C	161	PCB-182	ND	2.96	C	187
PCB-133	-	-	C131	131	PCB-183	ND	3.14		
PCB-134	ND	4.72	C	143	PCB-184	ND	2.35		
PCB-135	ND	5.15			PCB-185	ND	3.31		
PCB-136	ND	4.84			PCB-186	ND	2.46		
PCB-137	ND	4.69			PCB-187	-	-	C182	182
PCB-138	ND	3.61	C	163/164	PCB-188	ND	2.55		
PCB-139	ND	4.34	C	149	PCB-189	ND	2.37		
PCB-140	ND	4.44			PCB-190	ND	2.69		
PCB-141	ND	4.76			PCB-191	ND	2.71		
PCB-142	ND	5.49			PCB-192	ND	2.64		
PCB-143	-	-	C134	134	PCB-193	ND	2.52		
PCB-144	ND	4.55			PCB-194	ND	3.08		
PCB-145	ND	4.64			PCB-195	ND	3.46		
PCB-146	ND	4.03	C	165	PCB-196	ND	4.60	C	203
PCB-147	ND	4.59			PCB-197	ND	3.68		
PCB-148	ND	6.10			PCB-198	ND	5.36		
PCB-149	-	-	C139	139	PCB-199	ND	4.77		
PCB-150	ND	4.55			PCB-200	ND	3.96		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11704-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.89		
PCB-202	ND	3.85		
PCB-203	-	-	C196	196
PCB-204	ND	3.98		
PCB-205	ND	2.28		
PCB-206	ND	3.81		
PCB-207	ND	3.38		
PCB-208	ND	2.81		
PCB-209	ND	1.86		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	95.5	5.00 - 145	
13C-PCB-3	94.0	5.00 - 145	
13C-PCB-4	96.7	5.00 - 145	
13C-PCB-15	99.2	5.00 - 145	
13C-PCB-19	92.2	5.00 - 145	
13C-PCB-37	103	5.00 - 145	
13C-PCB-54	102	5.00 - 145	
13C-PCB-77	105	10.0 - 145	
13C-PCB-81	105	10.0 - 145	
13C-PCB-104	98.3	10.0 - 145	
13C-PCB-105	104	10.0 - 145	
13C-PCB-114	103	10.0 - 145	
13C-PCB-118	106	10.0 - 145	
13C-PCB-123	102	10.0 - 145	
13C-PCB-126	103	10.0 - 145	
13C-PCB-155	103	10.0 - 145	
13C-PCB-156	97.2	10.0 - 145	
13C-PCB-157	95.2	10.0 - 145	
13C-PCB-167	98.2	10.0 - 145	
13C-PCB-169	97.3	10.0 - 145	
13C-PCB-188	93.4	10.0 - 145	
13C-PCB-189	92.7	10.0 - 145	
13C-PCB-202	96.9	10.0 - 145	
13C-PCB-205	101	10.0 - 145	
13C-PCB-206	92.8	10.0 - 145	
13C-PCB-208	96.6	10.0 - 145	
13C-PCB-209	92.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	96.4	5.00 - 145	
13C-PCB-111	88.4	10.0 - 145	
13C-PCB-178	85.6	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: _____

Date: 8/1/2018

Reviewed By: _____

Date: 8/1/2018

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EPA Method 1668
PCBs

FAL ID: 11704-001-OPR
Client ID: OPR
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: ng/ml

Acquired: 07-25-2018

Compound	% Recovery	QC Limits	Qual
PCB-1	116	60.0 - 135	
PCB-3	117	60.0 - 135	
PCB-4	109	60.0 - 135	
PCB-15	119	60.0 - 135	
PCB-19	114	60.0 - 135	
PCB-37	112	60.0 - 135	
PCB-54	119	60.0 - 135	
PCB-77	122	60.0 - 135	
PCB-81	124	60.0 - 135	
PCB-104	120	60.0 - 135	
PCB-105	114	60.0 - 135	
PCB-114	119	60.0 - 135	
PCB-118	124	60.0 - 135	
PCB-123	105	60.0 - 135	
PCB-126	112	60.0 - 135	
PCB-155	120	60.0 - 135	
PCB-156	122	60.0 - 135	
PCB-157	115	60.0 - 135	
PCB-167	126	60.0 - 135	
PCB-169	125	60.0 - 135	
PCB-188	120	60.0 - 135	
PCB-189	122	60.0 - 135	
PCB-202	128	60.0 - 135	
PCB-205	121	60.0 - 135	
PCB-206	123	60.0 - 135	
PCB-208	119	60.0 - 135	
PCB-209	122	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	97.3	15.0 - 145	
13C-PCB-3	98.2	15.0 - 145	
13C-PCB-4	99.0	15.0 - 145	
13C-PCB-15	102	15.0 - 145	
13C-PCB-19	100	15.0 - 145	
13C-PCB-37	102	15.0 - 145	
13C-PCB-54	104	15.0 - 145	
13C-PCB-77	106	40.0 - 145	
13C-PCB-81	106	40.0 - 145	
13C-PCB-104	100	40.0 - 145	
13C-PCB-105	101	40.0 - 145	
13C-PCB-114	104	40.0 - 145	
13C-PCB-118	105	40.0 - 145	
13C-PCB-123	102	40.0 - 145	
13C-PCB-126	104	40.0 - 145	
13C-PCB-155	108	40.0 - 145	
13C-PCB-156	100	40.0 - 145	
13C-PCB-157	100	40.0 - 145	
13C-PCB-167	99.7	40.0 - 145	
13C-PCB-169	97.2	40.0 - 145	
13C-PCB-188	100	40.0 - 145	
13C-PCB-189	95.8	40.0 - 145	
13C-PCB-202	102	40.0 - 145	
13C-PCB-205	105	40.0 - 145	
13C-PCB-206	97.6	40.0 - 145	
13C-PCB-208	109	40.0 - 145	
13C-PCB-209	98.0	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	96.7	15.0 - 145	
13C-PCB-111	93.4	40.0 - 145	
13C-PCB-178	94.3	40.0 - 145	

Analyst: _____

Date: 8/1/2018

Reviewed By: _____

Date: 8/1/2018

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EPA Method 1668
PCBs

FAL ID: 11704-002-SA
Client ID: LDW-Y1-SU-ENR-CA-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018
Total Conc: 111000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	7.90	-	J		PCB-51	219	-		
PCB-2	ND	3.04			PCB-52	4020	-	C	69
PCB-3	ND	2.92			PCB-53	662	-		
PCB-4	190	-			PCB-54	14.8	-	J	
PCB-5	9.24	-	J		PCB-55	69.7	-		
PCB-6	171	-			PCB-56	1210	-	C	60
PCB-7	31.0	-			PCB-57	24.1	-		
PCB-8	492	-			PCB-58	10.3	-	J	
PCB-9	23.9	-			PCB-59	-	-	C042	42
PCB-10	16.4	-	J		PCB-60	-	-	C056	56
PCB-11	60.8	-			PCB-61	2360	-	C	70
PCB-12	6.28	-	J		PCB-62	ND	3.29		
PCB-13	22.1	-			PCB-63	117	-		
PCB-14	521	-			PCB-64	-	-	C041	41/71/72
PCB-15	125	-			PCB-65	ND	3.45		
PCB-16	724	-			PCB-66	2010	-	C	76
PCB-17	1130	-			PCB-67	93.4	-		
PCB-18	2380	-			PCB-68	41.7	-		
PCB-19	220	-			PCB-69	-	-	C052	52
PCB-20	1100	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	652	-			PCB-72	-	-	C041	41/64/71
PCB-23	4.21	-	J		PCB-73	ND	3.18		
PCB-24	82.9	-			PCB-74	1110	-		
PCB-25	245	-			PCB-75	-	-	C048	48
PCB-26	558	-			PCB-76	-	-	C066	66
PCB-27	134	-			PCB-77	111	-		
PCB-28	2000	-			PCB-78	2220	-		
PCB-29	17.6	-	J		PCB-79	35.2	-		
PCB-30	ND	2.84			PCB-80	ND	2.91		
PCB-31	2060	-			PCB-81	58.6	-		
PCB-32	742	-			PCB-82	384	-		
PCB-33	-	-	C020	20/21	PCB-83	169	-	C	112
PCB-34	24.0	-			PCB-84	1710	-	C	92
PCB-35	18.6	-	J		PCB-85	508	-	C	116
PCB-36	760	-			PCB-86	ND	4.42		
PCB-37	259	-			PCB-87	1260	-	C	117/125
PCB-38	19.1	-	J		PCB-88	430	-	C	91
PCB-39	ND	2.11			PCB-89	60.4	-		
PCB-40	536	-			PCB-90	3680	-	C	101
PCB-41	2400	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1030	-	C	59	PCB-92	-	-	C084	84
PCB-43	3170	-	C	49	PCB-93	ND	4.11		
PCB-44	2850	-			PCB-94	29.6	-		
PCB-45	628	-			PCB-95	3350	-		
PCB-46	243	-			PCB-96	57.5	-		
PCB-47	835	-			PCB-97	875	-		
PCB-48	779	-	C	75	PCB-98	ND	7.49	C	102
PCB-49	-	-	C043	43	PCB-99	1480	-		
PCB-50	21.3	-			PCB-100	34.6	-		

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EPA Method 1668
PCBs

FAL ID: 11704-002-SA
Client ID: LDW-Y1-SU-ENR-CA-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	769	-		
PCB-102	-	-	C098	98	PCB-152	ND	3.66		
PCB-103	67.2	-			PCB-153	2480	-		
PCB-104	1630	-			PCB-154	69.6	-		
PCB-105	748	-			PCB-155	3350	-		
PCB-106	1860	-	C	118	PCB-156	179	-		
PCB-107	161	-	C	108	PCB-157	32.4	-		
PCB-108	-	-	C107	107	PCB-158	261	-	C	160
PCB-109	ND	3.79			PCB-159	25.2	-		
PCB-110	2720	-			PCB-160	-	-	C158	158
PCB-111	46.7	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.05			PCB-163	-	-	C138	138/164
PCB-114	48.7	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.91		
PCB-117	-	-	C087	87/125	PCB-167	69.6	-		
PCB-118	-	-	C	106	PCB-168	ND	3.66		
PCB-119	85.8	-			PCB-169	ND	3.69		
PCB-120	ND	3.83			PCB-170	410	-		
PCB-121	3830	-			PCB-171	144	-		
PCB-122	28.5	-			PCB-172	211	-		
PCB-123	40.0	-			PCB-173	ND	5.99		
PCB-124	109	-			PCB-174	551	-		
PCB-125	-	-	C087	87/117	PCB-175	26.6	-		
PCB-126	7.81	-	J		PCB-176	104	-		
PCB-127	ND	3.23			PCB-177	339	-		
PCB-128	332	-	C	162	PCB-178	139	-		
PCB-129	134	-			PCB-179	334	-		
PCB-130	189	-			PCB-180	766	-		
PCB-131	77.8	-	C	133	PCB-181	ND	5.31		
PCB-132	803	-	C	161	PCB-182	683	-	C	187
PCB-133	-	-	C131	131	PCB-183	340	-		
PCB-134	168	-	C	143	PCB-184	4340	-		
PCB-135	453	-			PCB-185	56.0	-		
PCB-136	553	-			PCB-186	ND	4.03		
PCB-137	92.5	-			PCB-187	-	-	C182	182
PCB-138	2090	-	C	163/164	PCB-188	ND	4.41		
PCB-139	2440	-	C	149	PCB-189	11.6	-	J	
PCB-140	33.2	-			PCB-190	84.2	-		
PCB-141	466	-			PCB-191	19.6	-	J	
PCB-142	5640	-			PCB-192	3200	-		
PCB-143	-	-	C134	134	PCB-193	56.2	-		
PCB-144	187	-			PCB-194	149	-		
PCB-145	ND	3.51			PCB-195	76.0	-		
PCB-146	390	-	C	165	PCB-196	203	-	C	203
PCB-147	60.1	-			PCB-197	67.6	-		
PCB-148	ND	4.61			PCB-198	12.6	-	J	
PCB-149	-	-	C139	139	PCB-199	190	-		
PCB-150	ND	3.43			PCB-200	37.5	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11704-002-SA
Client ID: LDW-Y1-SU-ENR-CA-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.62		
PCB-202	48.3	-		
PCB-203	-	-	C196	196
PCB-204	9610	-		
PCB-205	8.74	-	J	
PCB-206	45.1	-		
PCB-207	43.1	-		
PCB-208	14.2	-	J	
PCB-209	50.4	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	85.0	5.00 - 145	
13C-PCB-3	86.9	5.00 - 145	
13C-PCB-4	89.7	5.00 - 145	
13C-PCB-15	96.8	5.00 - 145	
13C-PCB-19	90.4	5.00 - 145	
13C-PCB-37	103	5.00 - 145	
13C-PCB-54	94.8	5.00 - 145	
13C-PCB-77	101	10.0 - 145	
13C-PCB-81	103	10.0 - 145	
13C-PCB-104	96.4	10.0 - 145	
13C-PCB-105	99.1	10.0 - 145	
13C-PCB-114	102	10.0 - 145	
13C-PCB-118	99.7	10.0 - 145	
13C-PCB-123	97.6	10.0 - 145	
13C-PCB-126	104	10.0 - 145	
13C-PCB-155	94.4	10.0 - 145	
13C-PCB-156	95.7	10.0 - 145	
13C-PCB-157	94.4	10.0 - 145	
13C-PCB-167	93.5	10.0 - 145	
13C-PCB-169	96.3	10.0 - 145	
13C-PCB-188	89.5	10.0 - 145	
13C-PCB-189	92.4	10.0 - 145	
13C-PCB-202	89.5	10.0 - 145	
13C-PCB-205	94.1	10.0 - 145	
13C-PCB-206	84.6	10.0 - 145	
13C-PCB-208	90.0	10.0 - 145	
13C-PCB-209	84.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	94.3	5.00 - 145	
13C-PCB-111	88.1	10.0 - 145	
13C-PCB-178	86.3	10.0 - 145	

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

Analyst: _____

Date: 8/1/2018

Reviewed By: _____

Date: 8/1/2018

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EPA Method 1668
PCBs

FAL ID: 11704-003-SA
Client ID: LDW-Y1-SU-ENR-CB-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018
Total Conc: 95200

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	6.63	-	J		PCB-51	149	-		
PCB-2	ND	2.48			PCB-52	2740	-	C	69
PCB-3	5.96	-	J		PCB-53	457	-		
PCB-4	157	-			PCB-54	10.7	-	J	
PCB-5	34.2	-			PCB-55	81.9	-		
PCB-6	133	-			PCB-56	799	-	C	60
PCB-7	14.7	-	J		PCB-57	15.3	-	J	
PCB-8	375	-			PCB-58	7.92	-	J	
PCB-9	24.7	-			PCB-59	-	-	C042	42
PCB-10	14.9	-	J		PCB-60	-	-	C056	56
PCB-11	96.3	-			PCB-61	1580	-	C	70
PCB-12	9.53	-	J		PCB-62	ND	4.41		
PCB-13	23.1	-			PCB-63	78.4	-		
PCB-14	873	-			PCB-64	-	-	C041	41/71/72
PCB-15	106	-			PCB-65	ND	4.62		
PCB-16	462	-			PCB-66	1380	-	C	76
PCB-17	786	-			PCB-67	62.7	-		
PCB-18	1770	-			PCB-68	36.6	-		
PCB-19	179	-			PCB-69	-	-	C052	52
PCB-20	779	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	471	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	2.23			PCB-73	ND	4.25		
PCB-24	82.1	-			PCB-74	739	-		
PCB-25	169	-			PCB-75	-	-	C048	48
PCB-26	381	-			PCB-76	-	-	C066	66
PCB-27	81.4	-			PCB-77	83.3	-		
PCB-28	1350	-			PCB-78	3030	-		
PCB-29	11.5	-	J		PCB-79	22.6	-		
PCB-30	ND	3.46			PCB-80	15.3	-	J	
PCB-31	1530	-			PCB-81	46.9	-		
PCB-32	599	-			PCB-82	267	-		
PCB-33	-	-	C020	20/21	PCB-83	119	-	C	112
PCB-34	15.6	-	J		PCB-84	1210	-	C	92
PCB-35	18.7	-	J		PCB-85	345	-	C	116
PCB-36	1160	-			PCB-86	ND	5.20		
PCB-37	193	-			PCB-87	856	-	C	117/125
PCB-38	15.1	-	J		PCB-88	198	-	C	91
PCB-39	ND	2.31			PCB-89	43.4	-		
PCB-40	368	-			PCB-90	2450	-	C	101
PCB-41	1620	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	689	-	C	59	PCB-92	-	-	C084	84
PCB-43	2130	-	C	49	PCB-93	ND	4.37		
PCB-44	1920	-			PCB-94	19.8	-	J	
PCB-45	458	-			PCB-95	2190	-		
PCB-46	168	-			PCB-96	37.2	-		
PCB-47	511	-			PCB-97	595	-		
PCB-48	543	-	C	75	PCB-98	ND	7.95	C	102
PCB-49	-	-	C043	43	PCB-99	1020	-		
PCB-50	15.7	-	J		PCB-100	24.9	-		

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EPA Method 1668
PCBs

FAL ID: 11704-003-SA
Client ID: LDW-Y1-SU-ENR-CB-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	498	-		
PCB-102	-	-	C098	98	PCB-152	ND	3.03		
PCB-103	45.1	-			PCB-153	1520	-		
PCB-104	2110	-			PCB-154	42.9	-		
PCB-105	488	-			PCB-155	4110	-		
PCB-106	1190	-	C	118	PCB-156	102	-		
PCB-107	101	-	C	108	PCB-157	24.3	-		
PCB-108	-	-	C107	107	PCB-158	154	-	C	160
PCB-109	ND	4.46			PCB-159	18.9	-	J	
PCB-110	1820	-			PCB-160	-	-	C158	158
PCB-111	34.0	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.77			PCB-163	-	-	C138	138/164
PCB-114	36.0	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.58		
PCB-117	-	-	C087	87/125	PCB-167	38.3	-		
PCB-118	-	-	C	106	PCB-168	ND	4.28		
PCB-119	65.6	-			PCB-169	ND	4.44		
PCB-120	ND	4.50			PCB-170	216	-		
PCB-121	4840	-			PCB-171	82.2	-		
PCB-122	15.0	-	J		PCB-172	219	-		
PCB-123	28.6	-			PCB-173	ND	7.09		
PCB-124	64.6	-			PCB-174	302	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	6.44		
PCB-126	ND	5.93			PCB-176	51.7	-		
PCB-127	ND	5.81			PCB-177	190	-		
PCB-128	200	-	C	162	PCB-178	76.6	-		
PCB-129	70.1	-			PCB-179	181	-		
PCB-130	100	-			PCB-180	490	-		
PCB-131	44.6	-	C	133	PCB-181	ND	6.29		
PCB-132	543	-	C	161	PCB-182	391	-	C	187
PCB-133	-	-	C131	131	PCB-183	194	-		
PCB-134	101	-	C	143	PCB-184	5330	-		
PCB-135	300	-			PCB-185	35.2	-		
PCB-136	346	-			PCB-186	ND	4.78		
PCB-137	64.0	-			PCB-187	-	-	C182	182
PCB-138	1280	-	C	163/164	PCB-188	ND	4.61		
PCB-139	1510	-	C	149	PCB-189	ND	4.99		
PCB-140	ND	5.18			PCB-190	49.7	-		
PCB-141	284	-			PCB-191	16.7	-	J	
PCB-142	6970	-			PCB-192	4170	-		
PCB-143	-	-	C134	134	PCB-193	49.2	-		
PCB-144	94.2	-			PCB-194	82.6	-		
PCB-145	ND	2.91			PCB-195	38.5	-		
PCB-146	248	-	C	165	PCB-196	119	-	C	203
PCB-147	42.5	-			PCB-197	75.8	-		
PCB-148	ND	3.82			PCB-198	ND	4.20		
PCB-149	-	-	C139	139	PCB-199	109	-		
PCB-150	ND	2.85			PCB-200	19.7	-	J	

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11704-003-SA
Client ID: LDW-Y1-SU-ENR-CB-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.05		
PCB-202	25.9	-		
PCB-203	-	-	C196	196
PCB-204	11900	-		
PCB-205	6.88	-	J	
PCB-206	27.0	-		
PCB-207	49.3	-		
PCB-208	8.43	-	J	
PCB-209	57.0	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	91.0	5.00 - 145	
13C-PCB-3	92.9	5.00 - 145	
13C-PCB-4	97.3	5.00 - 145	
13C-PCB-15	104	5.00 - 145	
13C-PCB-19	95.4	5.00 - 145	
13C-PCB-37	110	5.00 - 145	
13C-PCB-54	98.1	5.00 - 145	
13C-PCB-77	106	10.0 - 145	
13C-PCB-81	108	10.0 - 145	
13C-PCB-104	100	10.0 - 145	
13C-PCB-105	105	10.0 - 145	
13C-PCB-114	105	10.0 - 145	
13C-PCB-118	105	10.0 - 145	
13C-PCB-123	104	10.0 - 145	
13C-PCB-126	109	10.0 - 145	
13C-PCB-155	99.1	10.0 - 145	
13C-PCB-156	102	10.0 - 145	
13C-PCB-157	99.0	10.0 - 145	
13C-PCB-167	98.7	10.0 - 145	
13C-PCB-169	101	10.0 - 145	
13C-PCB-188	93.7	10.0 - 145	
13C-PCB-189	97.4	10.0 - 145	
13C-PCB-202	96.4	10.0 - 145	
13C-PCB-205	97.2	10.0 - 145	
13C-PCB-206	88.2	10.0 - 145	
13C-PCB-208	98.4	10.0 - 145	
13C-PCB-209	86.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	98.7	5.00 - 145	
13C-PCB-111	95.3	10.0 - 145	
13C-PCB-178	91.3	10.0 - 145	

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

Analyst: _____

Date: 8/1/2018

Reviewed By: _____

Date: 8/1/2018

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EPA Method 1668
PCBs

FAL ID: 11704-004-SA
Client ID: LDW-Y1-SU-ENR-CC-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018
Total Conc: 100000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	12.3	-	J		PCB-51	177	-		
PCB-2	ND	4.52			PCB-52	3120	-	C	69
PCB-3	ND	4.34			PCB-53	518	-		
PCB-4	161	-			PCB-54	12.9	-	J	
PCB-5	26.4	-			PCB-55	75.7	-		
PCB-6	133	-			PCB-56	1010	-	C	60
PCB-7	29.3	-			PCB-57	14.4	-	J	
PCB-8	378	-			PCB-58	9.13	-	J	
PCB-9	32.8	-			PCB-59	-	-	C042	42
PCB-10	19.9	-	J		PCB-60	-	-	C056	56
PCB-11	77.4	-			PCB-61	1880	-	C	70
PCB-12	ND	7.77			PCB-62	ND	3.77		
PCB-13	ND	3.10			PCB-63	89.3	-		
PCB-14	593	-			PCB-64	-	-	C041	41/71/72
PCB-15	109	-			PCB-65	8.69	-	J	
PCB-16	436	-			PCB-66	1600	-	C	76
PCB-17	891	-			PCB-67	70.8	-		
PCB-18	1960	-			PCB-68	27.5	-		
PCB-19	185	-			PCB-69	-	-	C052	52
PCB-20	933	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	554	-			PCB-72	-	-	C041	41/64/71
PCB-23	6.10	-	J		PCB-73	ND	3.64		
PCB-24	86.0	-			PCB-74	882	-		
PCB-25	178	-			PCB-75	-	-	C048	48
PCB-26	410	-			PCB-76	-	-	C066	66
PCB-27	92.3	-			PCB-77	99.0	-		
PCB-28	1580	-			PCB-78	2370	-		
PCB-29	14.5	-	J		PCB-79	29.9	-		
PCB-30	ND	4.66			PCB-80	ND	3.33		
PCB-31	1620	-			PCB-81	48.3	-		
PCB-32	744	-			PCB-82	327	-		
PCB-33	-	-	C020	20/21	PCB-83	139	-	C	112
PCB-34	19.4	-	J		PCB-84	1390	-	C	92
PCB-35	20.2	-			PCB-85	398	-	C	116
PCB-36	838	-			PCB-86	ND	8.05		
PCB-37	205	-			PCB-87	1020	-	C	117/125
PCB-38	15.8	-	J		PCB-88	390	-	C	91
PCB-39	ND	2.34			PCB-89	53.6	-		
PCB-40	424	-			PCB-90	3000	-	C	101
PCB-41	1890	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	806	-	C	59	PCB-92	-	-	C084	84
PCB-43	2420	-	C	49	PCB-93	ND	4.51		
PCB-44	2180	-			PCB-94	26.9	-		
PCB-45	503	-			PCB-95	2680	-		
PCB-46	195	-			PCB-96	40.1	-		
PCB-47	659	-			PCB-97	690	-		
PCB-48	588	-	C	75	PCB-98	ND	8.21	C	102
PCB-49	-	-	C043	43	PCB-99	1160	-		
PCB-50	18.9	-	J		PCB-100	28.9	-		

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EPA Method 1668
PCBs

FAL ID: 11704-004-SA
Client ID: LDW-Y1-SU-ENR-CC-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	714	-		
PCB-102	-	-	C098	98	PCB-152	ND	5.51		
PCB-103	52.9	-			PCB-153	2230	-		
PCB-104	1710	-			PCB-154	54.1	-		
PCB-105	638	-			PCB-155	3630	-		
PCB-106	1590	-	C	118	PCB-156	159	-		
PCB-107	127	-	C	108	PCB-157	28.1	-		
PCB-108	-	-	C107	107	PCB-158	240	-	C	160
PCB-109	ND	6.90			PCB-159	25.6	-		
PCB-110	2160	-			PCB-160	-	-	C158	158
PCB-111	35.9	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	7.38			PCB-163	-	-	C138	138/164
PCB-114	50.9	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.71		
PCB-117	-	-	C087	87/125	PCB-167	72.5	-		
PCB-118	-	-	C	106	PCB-168	ND	4.41		
PCB-119	70.3	-			PCB-169	ND	4.52		
PCB-120	ND	6.97			PCB-170	402	-		
PCB-121	3990	-			PCB-171	145	-		
PCB-122	28.8	-			PCB-172	233	-		
PCB-123	25.3	-			PCB-173	18.0	-	J	
PCB-124	99.8	-			PCB-174	529	-		
PCB-125	-	-	C087	87/117	PCB-175	20.8	-		
PCB-126	8.64	-	J		PCB-176	93.7	-		
PCB-127	ND	4.21			PCB-177	334	-		
PCB-128	301	-	C	162	PCB-178	118	-		
PCB-129	114	-			PCB-179	295	-		
PCB-130	167	-			PCB-180	804	-		
PCB-131	72.8	-	C	133	PCB-181	ND	5.56		
PCB-132	740	-	C	161	PCB-182	641	-	C	187
PCB-133	-	-	C131	131	PCB-183	326	-		
PCB-134	136	-	C	143	PCB-184	4630	-		
PCB-135	401	-			PCB-185	58.1	-		
PCB-136	502	-			PCB-186	ND	4.23		
PCB-137	82.7	-			PCB-187	-	-	C182	182
PCB-138	1910	-	C	163/164	PCB-188	ND	4.62		
PCB-139	2210	-	C	149	PCB-189	13.3	-	J	
PCB-140	23.2	-			PCB-190	82.0	-		
PCB-141	440	-			PCB-191	24.8	-		
PCB-142	5930	-			PCB-192	3440	-		
PCB-143	-	-	C134	134	PCB-193	65.0	-		
PCB-144	162	-			PCB-194	152	-		
PCB-145	ND	5.28			PCB-195	73.8	-		
PCB-146	373	-	C	165	PCB-196	197	-	C	203
PCB-147	51.2	-			PCB-197	61.5	-		
PCB-148	ND	6.94			PCB-198	ND	5.40		
PCB-149	-	-	C139	139	PCB-199	170	-		
PCB-150	ND	5.17			PCB-200	25.9	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11704-004-SA
Client ID: LDW-Y1-SU-ENR-CC-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	27.8	-		
PCB-202	39.3	-		
PCB-203	-	-	C196	196
PCB-204	10200	-		
PCB-205	8.21	-	J	
PCB-206	40.8	-		
PCB-207	46.3	-		
PCB-208	12.5	-	J	
PCB-209	52.8	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	91.2	5.00 - 145	
13C-PCB-3	91.0	5.00 - 145	
13C-PCB-4	97.8	5.00 - 145	
13C-PCB-15	102	5.00 - 145	
13C-PCB-19	92.4	5.00 - 145	
13C-PCB-37	112	5.00 - 145	
13C-PCB-54	98.5	5.00 - 145	
13C-PCB-77	110	10.0 - 145	
13C-PCB-81	112	10.0 - 145	
13C-PCB-104	100	10.0 - 145	
13C-PCB-105	108	10.0 - 145	
13C-PCB-114	108	10.0 - 145	
13C-PCB-118	103	10.0 - 145	
13C-PCB-123	109	10.0 - 145	
13C-PCB-126	111	10.0 - 145	
13C-PCB-155	99.0	10.0 - 145	
13C-PCB-156	101	10.0 - 145	
13C-PCB-157	101	10.0 - 145	
13C-PCB-167	99.0	10.0 - 145	
13C-PCB-169	102	10.0 - 145	
13C-PCB-188	95.0	10.0 - 145	
13C-PCB-189	98.4	10.0 - 145	
13C-PCB-202	96.8	10.0 - 145	
13C-PCB-205	98.1	10.0 - 145	
13C-PCB-206	89.2	10.0 - 145	
13C-PCB-208	98.5	10.0 - 145	
13C-PCB-209	84.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	103	5.00 - 145	
13C-PCB-111	95.4	10.0 - 145	
13C-PCB-178	89.8	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: _____

Date: 8/1/2018

Reviewed By: _____

Date: 8/1/2018

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EPA Method 1668
PCBs

FAL ID: 11704-007-SA
Client ID: LDW-Y1-SU-S010-LCB
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-24-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-24-2018
Total Conc: 33900

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.97			PCB-51	7.40	-	J	
PCB-2	ND	3.29			PCB-52	26.6	-	C	69
PCB-3	ND	3.10			PCB-53	3.41	-	J	
PCB-4	ND	2.93			PCB-54	ND	1.89		
PCB-5	ND	2.26			PCB-55	31.3	-		
PCB-6	ND	2.38			PCB-56	ND	4.87	C	60
PCB-7	ND	2.37			PCB-57	ND	1.89		
PCB-8	ND	2.53			PCB-58	ND	1.87		
PCB-9	ND	2.39			PCB-59	-	-	C042,J	42
PCB-10	ND	2.66			PCB-60	-	-	C056	56
PCB-11	75.5	-			PCB-61	8.65	-	C,J	70
PCB-12	ND	2.37			PCB-62	ND	1.95		
PCB-13	ND	2.48			PCB-63	ND	1.81		
PCB-14	417	-			PCB-64	-	-	C041,J	41/71/72
PCB-15	ND	2.38			PCB-65	ND	1.95		
PCB-16	9.24	-	J		PCB-66	6.04	-	C,J	76
PCB-17	7.02	-	J		PCB-67	ND	1.80		
PCB-18	19.2	-	J		PCB-68	7.66	-	J	
PCB-19	3.65	-	J		PCB-69	-	-	C052	52
PCB-20	8.34	-	C,J	21/33	PCB-70	-	-	C061,J	61
PCB-21	-	-	C020,J	20/33	PCB-71	-	-	C041,J	41/64/72
PCB-22	4.94	-	J		PCB-72	-	-	C041,J	41/64/71
PCB-23	ND	2.18			PCB-73	11.4	-	J	
PCB-24	ND	1.80			PCB-74	3.69	-	J	
PCB-25	ND	1.86			PCB-75	-	-	C048,J	48
PCB-26	ND	2.30			PCB-76	-	-	C066,J	66
PCB-27	ND	1.90			PCB-77	ND	5.10		
PCB-28	10.7	-	J		PCB-78	2510	-		
PCB-29	ND	2.20			PCB-79	ND	4.93		
PCB-30	ND	1.86			PCB-80	5.01	-	J	
PCB-31	10.1	-	J		PCB-81	ND	4.76		
PCB-32	3.32	-	J		PCB-82	ND	1.77		
PCB-33	-	-	C020,J	20/21	PCB-83	ND	1.33	C	112
PCB-34	ND	2.45			PCB-84	61.4	-	C	92
PCB-35	ND	2.32			PCB-85	ND	1.21	C	116
PCB-36	853	-			PCB-86	ND	1.37		
PCB-37	ND	1.95			PCB-87	6.32	-	C,J	117/125
PCB-38	ND	2.15			PCB-88	ND	3.46	C	91
PCB-39	ND	2.19			PCB-89	ND	1.53		
PCB-40	ND	3.05			PCB-90	16.1	-	C,J	101
PCB-41	11.6	-	C,J	64/71/72	PCB-91	-	-	C088	88
PCB-42	5.16	-	C,J	59	PCB-92	-	-	C084	84
PCB-43	13.0	-	C,J	49	PCB-93	ND	3.80		
PCB-44	14.8	-	J		PCB-94	ND	3.87		
PCB-45	ND	-			PCB-95	36.1	-		
PCB-46	ND	2.87			PCB-96	ND	2.89		
PCB-47	14.5	-	J		PCB-97	ND	1.20		
PCB-48	4.24	-	C,J	75	PCB-98	ND	3.29	C	102
PCB-49	-	-	C043,J	43	PCB-99	5.79	-	J	
PCB-50	5.78	-	J		PCB-100	ND	3.31		

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EPA Method 1668
PCBs

FAL ID: 11704-007-SA
Client ID: LDW-Y1-SU-S010-LCB
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-24-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-24-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090,J	90	PCB-151	ND	4.42		
PCB-102	-	-	C098	98	PCB-152	ND	3.35		
PCB-103	ND	3.36			PCB-153	57.2	-		
PCB-104	1700	-			PCB-154	9.98	-	J	
PCB-105	ND	1.70			PCB-155	3340	-		
PCB-106	6.31	-	C,J	118	PCB-156	ND	3.53		
PCB-107	ND	1.67	C	108	PCB-157	ND	3.45		
PCB-108	-	-	C107	107	PCB-158	ND	3.22	C	160
PCB-109	ND	1.09			PCB-159	ND	3.24		
PCB-110	11.1	-	J		PCB-160	-	-	C158	158
PCB-111	ND	0.950	C	115	PCB-161	-	-	C132,J	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.23			PCB-163	-	-	C138	138/164
PCB-114	ND	1.53			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.44		
PCB-117	-	-	C087,J	87/125	PCB-167	ND	3.38		
PCB-118	-	-	C,J	106	PCB-168	ND	3.29		
PCB-119	ND	1.06			PCB-169	ND	3.15		
PCB-120	ND	1.01			PCB-170	ND	3.64		
PCB-121	3170	-			PCB-171	ND	3.42		
PCB-122	ND	1.56			PCB-172	135	-		
PCB-123	ND	1.36			PCB-173	ND	3.55		
PCB-124	ND	1.57			PCB-174	ND	3.32		
PCB-125	-	-	C087,J	87/117	PCB-175	ND	3.29		
PCB-126	ND	1.73			PCB-176	ND	2.55		
PCB-127	ND	1.73			PCB-177	ND	3.51		
PCB-128	ND	3.84	C	162	PCB-178	ND	3.46		
PCB-129	ND	5.11			PCB-179	ND	2.48		
PCB-130	ND	4.78			PCB-180	ND	2.61		
PCB-131	ND	4.27	C	133	PCB-181	ND	3.07		
PCB-132	13.8	-	C,J	161	PCB-182	ND	2.93	C	187
PCB-133	-	-	C131	131	PCB-183	ND	3.09		
PCB-134	ND	4.37	C	143	PCB-184	4020	-		
PCB-135	ND	4.22			PCB-185	ND	3.17		
PCB-136	ND	3.52			PCB-186	ND	2.43		
PCB-137	ND	4.43			PCB-187	-	-	C182	182
PCB-138	ND	3.26	C	163/164	PCB-188	ND	2.40		
PCB-139	ND	3.98	C	149	PCB-189	ND	2.32		
PCB-140	ND	4.07			PCB-190	ND	2.56		
PCB-141	ND	4.23			PCB-191	ND	2.55		
PCB-142	5210	-			PCB-192	3050	-		
PCB-143	-	-	C134	134	PCB-193	ND	2.45		
PCB-144	ND	4.37			PCB-194	ND	3.28		
PCB-145	ND	3.29			PCB-195	ND	3.41		
PCB-146	ND	3.59	C	165	PCB-196	ND	2.80	C	203
PCB-147	ND	3.99			PCB-197	42.8	-		
PCB-148	ND	4.17			PCB-198	ND	3.39		
PCB-149	-	-	C139	139	PCB-199	ND	2.82		
PCB-150	ND	3.22			PCB-200	ND	2.45		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11704-007-SA
Client ID: LDW-Y1-SU-S010-LCB
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-24-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-24-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.39		
PCB-202	ND	2.37		
PCB-203	-	-	C196	196
PCB-204	8870	-		
PCB-205	ND	2.46		
PCB-206	ND	1.84		
PCB-207	33.1	-		
PCB-208	ND	1.45		
PCB-209	37.5	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	91.7	5.00 - 145	
13C-PCB-3	95.5	5.00 - 145	
13C-PCB-4	98.1	5.00 - 145	
13C-PCB-15	102	5.00 - 145	
13C-PCB-19	94.4	5.00 - 145	
13C-PCB-37	107	5.00 - 145	
13C-PCB-54	102	5.00 - 145	
13C-PCB-77	107	10.0 - 145	
13C-PCB-81	109	10.0 - 145	
13C-PCB-104	102	10.0 - 145	
13C-PCB-105	104	10.0 - 145	
13C-PCB-114	109	10.0 - 145	
13C-PCB-118	102	10.0 - 145	
13C-PCB-123	105	10.0 - 145	
13C-PCB-126	107	10.0 - 145	
13C-PCB-155	104	10.0 - 145	
13C-PCB-156	96.8	10.0 - 145	
13C-PCB-157	97.7	10.0 - 145	
13C-PCB-167	100	10.0 - 145	
13C-PCB-169	97.6	10.0 - 145	
13C-PCB-188	97.1	10.0 - 145	
13C-PCB-189	96.2	10.0 - 145	
13C-PCB-202	97.1	10.0 - 145	
13C-PCB-205	103	10.0 - 145	
13C-PCB-206	96.3	10.0 - 145	
13C-PCB-208	94.0	10.0 - 145	
13C-PCB-209	92.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	107	5.00 - 145	
13C-PCB-111	98.3	10.0 - 145	
13C-PCB-178	95.2	10.0 - 145	

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

Analyst: _____

Date: 8/1/2018

Reviewed By: _____

Date: 8/1/2018

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EPA Method 1668
PCBs

FAL ID: 11704-008-SA
Client ID: LDW-Y1-IN-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-23-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-24-2018
Total Conc: 48500

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.78			PCB-51	16.3	-	J	
PCB-2	ND	3.11			PCB-52	435	-	C	69
PCB-3	ND	3.11			PCB-53	58.0	-		
PCB-4	22.8	-			PCB-54	3.06	-	J	
PCB-5	ND	2.48			PCB-55	44.3	-		
PCB-6	19.6	-	J		PCB-56	67.3	-	C	60
PCB-7	ND	2.70			PCB-57	3.54	-	J	
PCB-8	47.1	-			PCB-58	2.82	-	J	
PCB-9	ND	2.77			PCB-59	-	-	C042	42
PCB-10	ND	3.27			PCB-60	-	-	C056	56
PCB-11	37.1	-			PCB-61	139	-	C	70
PCB-12	ND	2.72			PCB-62	ND	1.82		
PCB-13	ND	2.78			PCB-63	6.27	-	J	
PCB-14	134	-			PCB-64	-	-	C041	41/71/72
PCB-15	25.5	-			PCB-65	ND	2.10		
PCB-16	46.7	-			PCB-66	140	-	C	76
PCB-17	72.2	-			PCB-67	4.76	-	J	
PCB-18	166	-			PCB-68	10.3	-	J	
PCB-19	18.2	-	J		PCB-69	-	-	C052	52
PCB-20	98.5	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	46.7	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.94			PCB-73	ND	2.20		
PCB-24	7.99	-	J		PCB-74	49.7	-		
PCB-25	29.3	-			PCB-75	-	-	C048	48
PCB-26	64.1	-			PCB-76	-	-	C066	66
PCB-27	13.2	-	J		PCB-77	14.2	-	J	
PCB-28	154	-			PCB-78	2290	-		
PCB-29	ND	5.24			PCB-79	9.43	-	J	
PCB-30	ND	2.52			PCB-80	3.55	-	J	
PCB-31	157	-			PCB-81	16.1	-	J	
PCB-32	27.0	-			PCB-82	84.7	-		
PCB-33	-	-	C020	20/21	PCB-83	46.8	-	C	112
PCB-34	ND	5.94			PCB-84	529	-	C	92
PCB-35	ND	5.40			PCB-85	118	-	C	116
PCB-36	497	-			PCB-86	ND	8.22		
PCB-37	21.7	-			PCB-87	293	-	C	117/125
PCB-38	ND	5.10			PCB-88	ND	2.12	C	91
PCB-39	ND	5.13			PCB-89	11.5	-	J	
PCB-40	33.5	-			PCB-90	882	-	C	101
PCB-41	153	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	70.6	-	C	59	PCB-92	-	-	C084	84
PCB-43	300	-	C	49	PCB-93	ND	2.46		
PCB-44	246	-			PCB-94	6.29	-	J	
PCB-45	39.9	-			PCB-95	886	-		
PCB-46	17.7	-	J		PCB-96	8.85	-	J	
PCB-47	76.6	-			PCB-97	208	-		
PCB-48	45.1	-	C	75	PCB-98	ND	1.90	C	102
PCB-49	-	-	C043	43	PCB-99	337	-		
PCB-50	5.30	-	J		PCB-100	11.5	-	J	

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EPA Method 1668
PCBs

FAL ID: 11704-008-SA
Client ID: LDW-Y1-IN-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-23-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-24-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	136	-		
PCB-102	-	-	C098	98	PCB-152	ND	2.41		
PCB-103	13.9	-	J		PCB-153	490	-		
PCB-104	1660	-			PCB-154	22.9	-		
PCB-105	111	-			PCB-155	3830	-		
PCB-106	356	-	C	118	PCB-156	25.5	-		
PCB-107	35.9	-	C	108	PCB-157	7.84	-	J	
PCB-108	-	-	C107	107	PCB-158	49.3	-	C	160
PCB-109	ND	6.65			PCB-159	6.46	-	J	
PCB-110	780	-			PCB-160	-	-	C158	158
PCB-111	ND	5.90	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	7.92			PCB-163	-	-	C138	138/164
PCB-114	7.38	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.94		
PCB-117	-	-	C087	87/125	PCB-167	9.92	-	J	
PCB-118	-	-	C	106	PCB-168	ND	3.80		
PCB-119	24.1	-			PCB-169	ND	3.76		
PCB-120	ND	6.24			PCB-170	49.0	-		
PCB-121	3390	-			PCB-171	19.4	-	J	
PCB-122	5.70	-	J		PCB-172	180	-		
PCB-123	7.20	-	J		PCB-173	ND	3.63		
PCB-124	19.2	-	J		PCB-174	80.3	-		
PCB-125	-	-	C087	87/117	PCB-175	5.74	-	J	
PCB-126	ND	3.75			PCB-176	15.4	-	J	
PCB-127	ND	3.61			PCB-177	40.0	-		
PCB-128	69.4	-	C	162	PCB-178	22.3	-		
PCB-129	21.5	-			PCB-179	43.2	-		
PCB-130	40.0	-			PCB-180	112	-		
PCB-131	14.2	-	C,J	133	PCB-181	ND	3.02		
PCB-132	185	-	C	161	PCB-182	95.7	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	46.3	-		
PCB-134	39.7	-	C	143	PCB-184	4730	-		
PCB-135	90.3	-			PCB-185	9.16	-	J	
PCB-136	133	-			PCB-186	ND	2.44		
PCB-137	28.6	-			PCB-187	-	-	C182	182
PCB-138	409	-	C	163/164	PCB-188	ND	2.45		
PCB-139	482	-	C	149	PCB-189	ND	2.51		
PCB-140	ND	4.82			PCB-190	11.1	-	J	
PCB-141	79.1	-			PCB-191	ND	2.59		
PCB-142	5990	-			PCB-192	3600	-		
PCB-143	-	-	C134	134	PCB-193	9.86	-	J	
PCB-144	27.6	-			PCB-194	17.0	-	J	
PCB-145	ND	2.34			PCB-195	8.88	-	J	
PCB-146	90.2	-	C	165	PCB-196	26.8	-	C	203
PCB-147	17.3	-	J		PCB-197	58.6	-		
PCB-148	ND	2.92			PCB-198	ND	3.78		
PCB-149	-	-	C139	139	PCB-199	25.8	-		
PCB-150	ND	2.29			PCB-200	ND	2.53		

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EPA Method 1668
PCBs

FAL ID: 11704-008-SA
Client ID: LDW-Y1-IN-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-23-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-24-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.52		
PCB-202	9.77	-	J	
PCB-203	-	-	C196	196
PCB-204	11000	-		
PCB-205	ND	4.56		
PCB-206	9.76	-	J	
PCB-207	48.6	-		
PCB-208	4.12	-	J	
PCB-209	55.0	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	94.4	5.00 - 145	
13C-PCB-3	95.5	5.00 - 145	
13C-PCB-4	95.3	5.00 - 145	
13C-PCB-15	95.5	5.00 - 145	
13C-PCB-19	98.8	5.00 - 145	
13C-PCB-37	97.0	5.00 - 145	
13C-PCB-54	111	5.00 - 145	
13C-PCB-77	90.4	10.0 - 145	
13C-PCB-81	89.8	10.0 - 145	
13C-PCB-104	127	10.0 - 145	
13C-PCB-105	93.8	10.0 - 145	
13C-PCB-114	93.8	10.0 - 145	
13C-PCB-118	92.3	10.0 - 145	
13C-PCB-123	97.2	10.0 - 145	
13C-PCB-126	91.3	10.0 - 145	
13C-PCB-155	90.1	10.0 - 145	
13C-PCB-156	95.1	10.0 - 145	
13C-PCB-157	94.3	10.0 - 145	
13C-PCB-167	94.2	10.0 - 145	
13C-PCB-169	92.3	10.0 - 145	
13C-PCB-188	105	10.0 - 145	
13C-PCB-189	95.9	10.0 - 145	
13C-PCB-202	98.3	10.0 - 145	
13C-PCB-205	94.1	10.0 - 145	
13C-PCB-206	97.3	10.0 - 145	
13C-PCB-208	120	10.0 - 145	
13C-PCB-209	121	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	90.8	5.00 - 145	
13C-PCB-111	93.9	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: _____

Date: 8/1/2018

Reviewed By: _____

Date: 8/1/2018

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EPA Method 1668
PCBs

FAL ID: 11704-009-SA
Client ID: LDW-Y1-IN-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-23-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-24-2018
Total Conc: 43200

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.86			PCB-51	12.3	-	J	
PCB-2	ND	3.25			PCB-52	261	-	C	69
PCB-3	ND	3.30			PCB-53	36.4	-		
PCB-4	ND	5.75			PCB-54	ND	1.93		
PCB-5	ND	4.47			PCB-55	39.9	-		
PCB-6	24.5	-			PCB-56	46.0	-	C	60
PCB-7	ND	4.87			PCB-57	ND	1.82		
PCB-8	25.4	-			PCB-58	ND	1.90		
PCB-9	ND	4.98			PCB-59	-	-	C042	42
PCB-10	ND	5.89			PCB-60	-	-	C056	56
PCB-11	26.6	-			PCB-61	92.2	-	C	70
PCB-12	ND	4.90			PCB-62	ND	1.80		
PCB-13	ND	5.01			PCB-63	5.07	-	J	
PCB-14	95.8	-			PCB-64	-	-	C041	41/71/72
PCB-15	ND	4.91			PCB-65	ND	2.07		
PCB-16	30.0	-			PCB-66	85.5	-	C	76
PCB-17	40.6	-			PCB-67	4.93	-	J	
PCB-18	105	-			PCB-68	9.20	-	J	
PCB-19	18.0	-	J		PCB-69	-	-	C052	52
PCB-20	37.1	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	20.9	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	5.50			PCB-73	ND	2.18		
PCB-24	6.61	-	J		PCB-74	36.6	-		
PCB-25	27.3	-			PCB-75	-	-	C048	48
PCB-26	57.6	-			PCB-76	-	-	C066	66
PCB-27	8.87	-	J		PCB-77	11.7	-	J	
PCB-28	76.8	-			PCB-78	2140	-		
PCB-29	ND	5.83			PCB-79	5.52	-	J	
PCB-30	ND	2.49			PCB-80	4.39	-	J	
PCB-31	93.8	-			PCB-81	17.5	-	J	
PCB-32	15.8	-	J		PCB-82	47.0	-		
PCB-33	-	-	C020	20/21	PCB-83	27.7	-	C	112
PCB-34	ND	6.60			PCB-84	307	-	C	92
PCB-35	ND	6.01			PCB-85	67.7	-	C	116
PCB-36	517	-			PCB-86	ND	3.57		
PCB-37	11.0	-	J		PCB-87	158	-	C	117/125
PCB-38	ND	5.68			PCB-88	ND	1.52	C	91
PCB-39	ND	5.71			PCB-89	6.50	-	J	
PCB-40	16.7	-	J		PCB-90	492	-	C	101
PCB-41	93.3	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	36.4	-	C	59	PCB-92	-	-	C084	84
PCB-43	182	-	C	49	PCB-93	ND	1.77		
PCB-44	122	-			PCB-94	3.70	-	J	
PCB-45	20.7	-			PCB-95	474	-		
PCB-46	11.8	-	J		PCB-96	4.86	-	J	
PCB-47	48.5	-			PCB-97	104	-		
PCB-48	21.0	-	C	75	PCB-98	ND	1.36	C	102
PCB-49	-	-	C043	43	PCB-99	198	-		
PCB-50	5.57	-	J		PCB-100	10.2	-	J	

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EPA Method 1668
PCBs

FAL ID: 11704-009-SA
Client ID: LDW-Y1-IN-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-23-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-24-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	89.9	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.95		
PCB-103	7.41	-	J		PCB-153	362	-		
PCB-104	1820	-			PCB-154	18.0	-	J	
PCB-105	73.4	-			PCB-155	3980	-		
PCB-106	229	-	C	118	PCB-156	21.6	-		
PCB-107	20.2	-	C	108	PCB-157	6.51	-	J	
PCB-108	-	-	C107	107	PCB-158	34.9	-	C	160
PCB-109	ND	2.88			PCB-159	8.02	-	J	
PCB-110	437	-			PCB-160	-	-	C158	158
PCB-111	ND	2.56	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	3.44			PCB-163	-	-	C138	138/164
PCB-114	7.23	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.32		
PCB-117	-	-	C087	87/125	PCB-167	12.0	-	J	
PCB-118	-	-	C	106	PCB-168	ND	3.19		
PCB-119	15.3	-	J		PCB-169	ND	3.29		
PCB-120	ND	2.71			PCB-170	36.5	-		
PCB-121	3510	-			PCB-171	15.3	-	J	
PCB-122	3.92	-	J		PCB-172	143	-		
PCB-123	2.46	-	J		PCB-173	ND	3.45		
PCB-124	14.8	-	J		PCB-174	58.2	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.17		
PCB-126	ND	1.99			PCB-176	11.6	-	J	
PCB-127	ND	1.83			PCB-177	32.2	-		
PCB-128	43.5	-	C	162	PCB-178	19.1	-	J	
PCB-129	18.2	-	J		PCB-179	35.3	-		
PCB-130	28.8	-			PCB-180	96.7	-		
PCB-131	8.82	-	C,J	133	PCB-181	ND	2.87		
PCB-132	122	-	C	161	PCB-182	77.7	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	38.9	-		
PCB-134	24.9	-	C	143	PCB-184	4520	-		
PCB-135	53.3	-			PCB-185	8.55	-	J	
PCB-136	70.7	-			PCB-186	ND	2.32		
PCB-137	19.0	-	J		PCB-187	-	-	C182	182
PCB-138	281	-	C	163/164	PCB-188	ND	2.32		
PCB-139	317	-	C	149	PCB-189	ND	2.38		
PCB-140	ND	4.05			PCB-190	7.53	-	J	
PCB-141	55.4	-			PCB-191	ND	2.45		
PCB-142	5890	-			PCB-192	3450	-		
PCB-143	-	-	C134	134	PCB-193	9.95	-	J	
PCB-144	20.5	-			PCB-194	16.3	-	J	
PCB-145	ND	1.90			PCB-195	7.53	-	J	
PCB-146	67.9	-	C	165	PCB-196	22.8	-	C	203
PCB-147	8.77	-	J		PCB-197	54.6	-		
PCB-148	ND	2.36			PCB-198	ND	3.15		
PCB-149	-	-	C139	139	PCB-199	21.1	-		
PCB-150	ND	1.86			PCB-200	ND	2.11		

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EPA Method 1668
PCBs

FAL ID: 11704-009-SA
Client ID: LDW-Y1-IN-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-23-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-24-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.10		
PCB-202	7.25	-	J	
PCB-203	-	-	C196	196
PCB-204	10200	-		
PCB-205	ND	3.67		
PCB-206	6.81	-	J	
PCB-207	41.3	-		
PCB-208	3.73	-	J	
PCB-209	46.4	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	93.4	5.00 - 145	
13C-PCB-3	93.0	5.00 - 145	
13C-PCB-4	93.9	5.00 - 145	
13C-PCB-15	93.4	5.00 - 145	
13C-PCB-19	100	5.00 - 145	
13C-PCB-37	87.8	5.00 - 145	
13C-PCB-54	107	5.00 - 145	
13C-PCB-77	89.6	10.0 - 145	
13C-PCB-81	87.8	10.0 - 145	
13C-PCB-104	113	10.0 - 145	
13C-PCB-105	89.5	10.0 - 145	
13C-PCB-114	90.2	10.0 - 145	
13C-PCB-118	91.4	10.0 - 145	
13C-PCB-123	93.7	10.0 - 145	
13C-PCB-126	87.6	10.0 - 145	
13C-PCB-155	99.8	10.0 - 145	
13C-PCB-156	93.4	10.0 - 145	
13C-PCB-157	93.6	10.0 - 145	
13C-PCB-167	94.3	10.0 - 145	
13C-PCB-169	93.5	10.0 - 145	
13C-PCB-188	103	10.0 - 145	
13C-PCB-189	101	10.0 - 145	
13C-PCB-202	95.8	10.0 - 145	
13C-PCB-205	98.1	10.0 - 145	
13C-PCB-206	94.6	10.0 - 145	
13C-PCB-208	108	10.0 - 145	
13C-PCB-209	110	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	90.7	5.00 - 145	
13C-PCB-111	91.5	10.0 - 145	
13C-PCB-178	95.5	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: _____

Date: 8/1/2018

Reviewed By: _____

Date: 8/1/2018

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EPA Method 1668
PCBs

FAL ID: 11704-010-SA
Client ID: LDW-Y1-IN-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-23-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-24-2018
Total Conc: 35900

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.75			PCB-51	10.6	-	J	
PCB-2	ND	3.09			PCB-52	242	-	C	69
PCB-3	ND	3.10			PCB-53	35.0	-		
PCB-4	17.7	-	J		PCB-54	ND	2.18		
PCB-5	ND	4.64			PCB-55	37.5	-		
PCB-6	15.6	-	J		PCB-56	35.0	-	C	60
PCB-7	ND	5.05			PCB-57	ND	2.06		
PCB-8	33.3	-			PCB-58	ND	2.15		
PCB-9	ND	5.17			PCB-59	-	-	C042	42
PCB-10	ND	6.11			PCB-60	-	-	C056	56
PCB-11	23.3	-			PCB-61	83.7	-	C	70
PCB-12	ND	5.09			PCB-62	ND	2.04		
PCB-13	ND	5.20			PCB-63	ND	2.01		
PCB-14	61.2	-			PCB-64	-	-	C041	41/71/72
PCB-15	ND	5.05			PCB-65	ND	2.35		
PCB-16	19.5	-	J		PCB-66	71.5	-	C	76
PCB-17	34.3	-			PCB-67	3.68	-	J	
PCB-18	81.7	-			PCB-68	6.19	-	J	
PCB-19	12.2	-	J		PCB-69	-	-	C052	52
PCB-20	30.6	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	16.5	-	J		PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.93			PCB-73	ND	2.47		
PCB-24	4.74	-	J		PCB-74	30.4	-		
PCB-25	19.7	-	J		PCB-75	-	-	C048	48
PCB-26	43.0	-			PCB-76	-	-	C066	66
PCB-27	8.19	-	J		PCB-77	9.67	-	J	
PCB-28	65.8	-			PCB-78	1650	-		
PCB-29	ND	5.24			PCB-79	4.72	-	J	
PCB-30	ND	2.44			PCB-80	3.71	-	J	
PCB-31	70.7	-			PCB-81	5.23	-	J	
PCB-32	18.2	-	J		PCB-82	37.5	-		
PCB-33	-	-	C020	20/21	PCB-83	21.6	-	C	112
PCB-34	ND	5.93			PCB-84	268	-	C	92
PCB-35	ND	5.40			PCB-85	52.1	-	C	116
PCB-36	339	-			PCB-86	ND	3.26		
PCB-37	9.86	-	J		PCB-87	137	-	C	117/125
PCB-38	ND	5.10			PCB-88	ND	2.40	C	91
PCB-39	ND	5.12			PCB-89	8.52	-	J	
PCB-40	13.0	-	J		PCB-90	421	-	C	101
PCB-41	82.6	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	32.2	-	C	59	PCB-92	-	-	C084	84
PCB-43	158	-	C	49	PCB-93	ND	2.79		
PCB-44	119	-			PCB-94	ND	2.71		
PCB-45	18.9	-	J		PCB-95	409	-		
PCB-46	7.23	-	J		PCB-96	4.98	-	J	
PCB-47	42.9	-			PCB-97	87.6	-		
PCB-48	24.0	-	C	75	PCB-98	ND	2.15	C	102
PCB-49	-	-	C043	43	PCB-99	163	-		
PCB-50	3.39	-	J		PCB-100	7.96	-	J	

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EPA Method 1668
PCBs

FAL ID: 11704-010-SA
Client ID: LDW-Y1-IN-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-23-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-24-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	69.2	-		
PCB-102	-	-	C098	98	PCB-152	ND	2.32		
PCB-103	7.25	-	J		PCB-153	289	-		
PCB-104	1540	-			PCB-154	17.4	-	J	
PCB-105	56.4	-			PCB-155	3530	-		
PCB-106	176	-	C	118	PCB-156	19.2	-	J	
PCB-107	17.8	-	C,J	108	PCB-157	4.73	-	J	
PCB-108	-	-	C107,J	107	PCB-158	23.9	-	C	160
PCB-109	ND	2.63			PCB-159	5.01	-	J	
PCB-110	363	-			PCB-160	-	-	C158	158
PCB-111	ND	2.34	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	3.14			PCB-163	-	-	C138	138/164
PCB-114	6.49	-	J		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	9.92	-	J	
PCB-118	-	-	C	106	PCB-168	ND	2.70		
PCB-119	12.8	-	J		PCB-169	ND	2.53		
PCB-120	ND	2.47			PCB-170	34.0	-		
PCB-121	2950	-			PCB-171	14.1	-	J	
PCB-122	ND	3.10			PCB-172	126	-		
PCB-123	5.18	-	J		PCB-173	ND	2.57		
PCB-124	10.2	-	J		PCB-174	48.2	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	2.36		
PCB-126	ND	3.47			PCB-176	8.16	-	J	
PCB-127	ND	3.57			PCB-177	28.4	-		
PCB-128	39.6	-	C	162	PCB-178	12.0	-	J	
PCB-129	13.3	-	J		PCB-179	29.5	-		
PCB-130	18.6	-	J		PCB-180	70.9	-		
PCB-131	8.70	-	C,J	133	PCB-181	ND	2.14		
PCB-132	87.5	-	C	161	PCB-182	59.0	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	33.2	-		
PCB-134	20.6	-	C	143	PCB-184	3780	-		
PCB-135	46.1	-			PCB-185	ND	2.28		
PCB-136	68.0	-			PCB-186	ND	1.73		
PCB-137	14.3	-	J		PCB-187	-	-	C182	182
PCB-138	222	-	C	163/164	PCB-188	3.38	-	J	
PCB-139	245	-	C	149	PCB-189	ND	1.64		
PCB-140	ND	3.42			PCB-190	7.87	-	J	
PCB-141	35.4	-			PCB-191	ND	1.83		
PCB-142	4980	-			PCB-192	2880	-		
PCB-143	-	-	C134	134	PCB-193	8.80	-	J	
PCB-144	13.8	-	J		PCB-194	11.9	-	J	
PCB-145	ND	2.26			PCB-195	6.98	-	J	
PCB-146	52.8	-	C	165	PCB-196	19.7	-	C,J	203
PCB-147	7.80	-	J		PCB-197	44.4	-		
PCB-148	ND	2.81			PCB-198	ND	2.56		
PCB-149	-	-	C139	139	PCB-199	18.5	-	J	
PCB-150	ND	2.21			PCB-200	ND	1.71		

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EPA Method 1668
PCBs

FAL ID: 11704-010-SA
Client ID: LDW-Y1-IN-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-23-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-24-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	1.70		
PCB-202	6.18	-	J	
PCB-203	-	-	C196,J	196
PCB-204	8290	-		
PCB-205	ND	2.39		
PCB-206	5.05	-	J	
PCB-207	30.4	-		
PCB-208	3.08	-	J	
PCB-209	36.1	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	101	5.00 - 145	
13C-PCB-3	100	5.00 - 145	
13C-PCB-4	98.2	5.00 - 145	
13C-PCB-15	97.7	5.00 - 145	
13C-PCB-19	109	5.00 - 145	
13C-PCB-37	91.9	5.00 - 145	
13C-PCB-54	104	5.00 - 145	
13C-PCB-77	89.3	10.0 - 145	
13C-PCB-81	89.3	10.0 - 145	
13C-PCB-104	117	10.0 - 145	
13C-PCB-105	92.0	10.0 - 145	
13C-PCB-114	90.9	10.0 - 145	
13C-PCB-118	89.1	10.0 - 145	
13C-PCB-123	94.0	10.0 - 145	
13C-PCB-126	91.0	10.0 - 145	
13C-PCB-155	96.9	10.0 - 145	
13C-PCB-156	98.7	10.0 - 145	
13C-PCB-157	97.9	10.0 - 145	
13C-PCB-167	98.6	10.0 - 145	
13C-PCB-169	101	10.0 - 145	
13C-PCB-188	105	10.0 - 145	
13C-PCB-189	108	10.0 - 145	
13C-PCB-202	104	10.0 - 145	
13C-PCB-205	103	10.0 - 145	
13C-PCB-206	114	10.0 - 145	
13C-PCB-208	115	10.0 - 145	
13C-PCB-209	131	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	88.0	5.00 - 145	
13C-PCB-111	94.5	10.0 - 145	
13C-PCB-178	97.9	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: _____

Date: 8/1/2018

Reviewed By: _____

Date: 8/1/2018

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EPA Method 1668
PCBs

FAL ID: 11704-013-SA
Client ID: LDW-Y1-IN-ENR-CA-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018
Total Conc: 32500

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	3.70			PCB-51	17.4	-	J	
PCB-2	ND	4.03			PCB-52	525	-	C	69
PCB-3	ND	3.82			PCB-53	66.8	-		
PCB-4	47.1	-			PCB-54	ND	3.57		
PCB-5	ND	4.72			PCB-55	28.4	-		
PCB-6	25.8	-			PCB-56	58.8	-	C	60
PCB-7	ND	4.68			PCB-57	ND	3.76		
PCB-8	38.8	-			PCB-58	ND	3.60		
PCB-9	ND	4.76			PCB-59	-	-	C042	42
PCB-10	ND	5.31			PCB-60	-	-	C056	56
PCB-11	44.6	-			PCB-61	144	-	C	70
PCB-12	ND	4.86			PCB-62	ND	3.71		
PCB-13	ND	4.92			PCB-63	ND	3.75		
PCB-14	132	-			PCB-64	-	-	C041	41/71/72
PCB-15	22.2	-			PCB-65	ND	3.89		
PCB-16	24.2	-			PCB-66	128	-	C	76
PCB-17	58.7	-			PCB-67	9.39	-	J	
PCB-18	147	-			PCB-68	10.8	-	J	
PCB-19	24.1	-			PCB-69	-	-	C052	52
PCB-20	42.6	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	30.3	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.38			PCB-73	ND	3.59		
PCB-24	11.7	-	J		PCB-74	60.2	-		
PCB-25	33.3	-			PCB-75	-	-	C048	48
PCB-26	83.3	-			PCB-76	-	-	C066	66
PCB-27	14.7	-	J		PCB-77	10.9	-	J	
PCB-28	115	-			PCB-78	1670	-		
PCB-29	ND	4.38			PCB-79	5.49	-	J	
PCB-30	ND	4.32			PCB-80	ND	3.28		
PCB-31	121	-			PCB-81	19.1	-	J	
PCB-32	31.4	-			PCB-82	45.7	-		
PCB-33	-	-	C020	20/21	PCB-83	29.8	-	C	112
PCB-34	ND	4.73			PCB-84	293	-	C	92
PCB-35	ND	4.94			PCB-85	65.3	-	C	116
PCB-36	409	-			PCB-86	ND	3.97		
PCB-37	15.9	-	J		PCB-87	182	-	C	117/125
PCB-38	ND	4.41			PCB-88	ND	4.39	C	91
PCB-39	ND	4.54			PCB-89	ND	4.80		
PCB-40	30.7	-			PCB-90	480	-	C	101
PCB-41	140	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	65.1	-	C	59	PCB-92	-	-	C084	84
PCB-43	302	-	C	49	PCB-93	ND	4.71		
PCB-44	218	-			PCB-94	ND	5.16		
PCB-45	34.2	-			PCB-95	535	-		
PCB-46	14.3	-	J		PCB-96	ND	3.80		
PCB-47	78.4	-			PCB-97	116	-		
PCB-48	37.7	-	C	75	PCB-98	ND	8.58	C	102
PCB-49	-	-	C043	43	PCB-99	208	-		
PCB-50	ND	4.75			PCB-100	ND	4.33		

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EPA Method 1668
PCBs

FAL ID: 11704-013-SA
Client ID: LDW-Y1-IN-ENR-CA-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	95.3	-		
PCB-102	-	-	C098	98	PCB-152	ND	2.78		
PCB-103	15.6	-	J		PCB-153	348	-		
PCB-104	1090	-			PCB-154	16.3	-	J	
PCB-105	81.7	-			PCB-155	2450	-		
PCB-106	258	-	C	118	PCB-156	21.0	-		
PCB-107	25.0	-	C	108	PCB-157	ND	4.47		
PCB-108	-	-	C107	107	PCB-158	35.0	-	C	160
PCB-109	ND	3.40			PCB-159	ND	4.14		
PCB-110	415	-			PCB-160	-	-	C158	158
PCB-111	7.48	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	3.64			PCB-163	-	-	C138	138/164
PCB-114	4.07	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.57		
PCB-117	-	-	C087	87/125	PCB-167	11.7	-	J	
PCB-118	-	-	C	106	PCB-168	ND	4.28		
PCB-119	16.5	-	J		PCB-169	ND	4.31		
PCB-120	ND	3.43			PCB-170	32.9	-		
PCB-121	2760	-			PCB-171	ND	4.08		
PCB-122	5.79	-	J		PCB-172	105	-		
PCB-123	6.95	-	J		PCB-173	ND	4.34		
PCB-124	16.5	-	J		PCB-174	43.2	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.94		
PCB-126	ND	2.60			PCB-176	ND	3.06		
PCB-127	ND	2.54			PCB-177	26.6	-		
PCB-128	48.5	-	C	162	PCB-178	ND	4.21		
PCB-129	17.2	-	J		PCB-179	21.6	-		
PCB-130	26.5	-			PCB-180	73.5	-		
PCB-131	13.7	-	C,J	133	PCB-181	ND	3.85		
PCB-132	109	-	C	161	PCB-182	57.0	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	33.4	-		
PCB-134	23.6	-	C	143	PCB-184	3050	-		
PCB-135	71.7	-			PCB-185	ND	3.93		
PCB-136	68.4	-			PCB-186	ND	2.92		
PCB-137	14.8	-	J		PCB-187	-	-	C182	182
PCB-138	269	-	C	163/164	PCB-188	ND	3.18		
PCB-139	303	-	C	149	PCB-189	ND	2.65		
PCB-140	ND	5.18			PCB-190	ND	3.20		
PCB-141	49.8	-			PCB-191	ND	3.22		
PCB-142	4370	-			PCB-192	2370	-		
PCB-143	-	-	C134	134	PCB-193	ND	3.00		
PCB-144	14.1	-	J		PCB-194	11.3	-	J	
PCB-145	ND	2.67			PCB-195	ND	4.91		
PCB-146	71.8	-	C	165	PCB-196	15.8	-	C,J	203
PCB-147	11.6	-	J		PCB-197	35.9	-		
PCB-148	ND	3.51			PCB-198	ND	5.04		
PCB-149	-	-	C139	139	PCB-199	ND	4.48		
PCB-150	ND	2.61			PCB-200	ND	3.72		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11704-013-SA
Client ID: LDW-Y1-IN-ENR-CA-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.66		
PCB-202	ND	3.62		
PCB-203	-	-	C196,J	196
PCB-204	6300	-		
PCB-205	ND	3.24		
PCB-206	ND	3.01		
PCB-207	26.4	-		
PCB-208	ND	2.19		
PCB-209	29.5	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	92.3	5.00 - 145	
13C-PCB-3	91.9	5.00 - 145	
13C-PCB-4	99.7	5.00 - 145	
13C-PCB-15	104	5.00 - 145	
13C-PCB-19	92.4	5.00 - 145	
13C-PCB-37	115	5.00 - 145	
13C-PCB-54	102	5.00 - 145	
13C-PCB-77	114	10.0 - 145	
13C-PCB-81	117	10.0 - 145	
13C-PCB-104	99.3	10.0 - 145	
13C-PCB-105	108	10.0 - 145	
13C-PCB-114	110	10.0 - 145	
13C-PCB-118	110	10.0 - 145	
13C-PCB-123	113	10.0 - 145	
13C-PCB-126	114	10.0 - 145	
13C-PCB-155	103	10.0 - 145	
13C-PCB-156	100	10.0 - 145	
13C-PCB-157	98.9	10.0 - 145	
13C-PCB-167	99.3	10.0 - 145	
13C-PCB-169	101	10.0 - 145	
13C-PCB-188	94.0	10.0 - 145	
13C-PCB-189	96.7	10.0 - 145	
13C-PCB-202	98.4	10.0 - 145	
13C-PCB-205	103	10.0 - 145	
13C-PCB-206	87.1	10.0 - 145	
13C-PCB-208	98.9	10.0 - 145	
13C-PCB-209	84.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	114	5.00 - 145	
13C-PCB-111	98.7	10.0 - 145	
13C-PCB-178	92.7	10.0 - 145	

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

Analyst: _____

Date: 8/1/2018

Reviewed By: _____

Date: 8/1/2018

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EPA Method 1668
PCBs

FAL ID: 11704-014-SA
Client ID: LDW-Y1-IN-ENR-CB-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018
Total Conc: 46000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	1.77			PCB-51	23.0	-		
PCB-2	ND	1.93			PCB-52	774	-	C	69
PCB-3	4.54	-	J		PCB-53	107	-		
PCB-4	49.9	-			PCB-54	ND	2.83		
PCB-5	ND	3.59			PCB-55	37.7	-		
PCB-6	33.4	-			PCB-56	72.0	-	C	60
PCB-7	ND	3.57			PCB-57	ND	2.98		
PCB-8	50.3	-			PCB-58	ND	2.86		
PCB-9	ND	3.63			PCB-59	-	-	C042	42
PCB-10	ND	4.05			PCB-60	-	-	C056	56
PCB-11	42.9	-			PCB-61	173	-	C	70
PCB-12	ND	3.70			PCB-62	ND	2.95		
PCB-13	ND	3.75			PCB-63	8.32	-	J	
PCB-14	138	-			PCB-64	-	-	C041	41/71/72
PCB-15	32.6	-			PCB-65	ND	3.09		
PCB-16	40.4	-			PCB-66	173	-	C	76
PCB-17	69.0	-			PCB-67	9.89	-	J	
PCB-18	168	-			PCB-68	11.9	-	J	
PCB-19	32.7	-			PCB-69	-	-	C052	52
PCB-20	46.4	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	29.3	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.72			PCB-73	ND	2.85		
PCB-24	20.2	-			PCB-74	69.9	-		
PCB-25	39.9	-			PCB-75	-	-	C048	48
PCB-26	105	-			PCB-76	-	-	C066	66
PCB-27	13.8	-	J		PCB-77	14.6	-	J	
PCB-28	126	-			PCB-78	2170	-		
PCB-29	ND	4.72			PCB-79	6.24	-	J	
PCB-30	ND	3.28			PCB-80	6.62	-	J	
PCB-31	149	-			PCB-81	22.2	-		
PCB-32	35.0	-			PCB-82	63.9	-		
PCB-33	-	-	C020	20/21	PCB-83	38.2	-	C	112
PCB-34	ND	5.10			PCB-84	457	-	C	92
PCB-35	ND	5.33			PCB-85	102	-	C	116
PCB-36	512	-			PCB-86	ND	5.64		
PCB-37	19.0	-	J		PCB-87	255	-	C	117/125
PCB-38	ND	4.76			PCB-88	99.8	-	C	91
PCB-39	ND	4.90			PCB-89	ND	6.83		
PCB-40	36.5	-			PCB-90	714	-	C	101
PCB-41	189	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	95.8	-	C	59	PCB-92	-	-	C084	84
PCB-43	447	-	C	49	PCB-93	ND	3.37		
PCB-44	308	-			PCB-94	ND	3.69		
PCB-45	53.0	-			PCB-95	966	-		
PCB-46	19.4	-	J		PCB-96	ND	2.71		
PCB-47	118	-			PCB-97	175	-		
PCB-48	43.9	-	C	75	PCB-98	ND	6.13	C	102
PCB-49	-	-	C043	43	PCB-99	311	-		
PCB-50	ND	3.78			PCB-100	13.5	-	J	

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EPA Method 1668
PCBs

FAL ID: 11704-014-SA
Client ID: LDW-Y1-IN-ENR-CB-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	142	-		
PCB-102	-	-	C098	98	PCB-152	ND	2.63		
PCB-103	18.2	-	J		PCB-153	509	-		
PCB-104	1580	-			PCB-154	25.4	-		
PCB-105	115	-			PCB-155	3480	-		
PCB-106	340	-	C	118	PCB-156	29.3	-		
PCB-107	35.1	-	C	108	PCB-157	7.39	-	J	
PCB-108	-	-	C107	107	PCB-158	44.4	-	C	160
PCB-109	ND	4.84			PCB-159	ND	3.93		
PCB-110	623	-			PCB-160	-	-	C158	158
PCB-111	6.06	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.17			PCB-163	-	-	C138	138/164
PCB-114	9.65	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.34		
PCB-117	-	-	C087	87/125	PCB-167	13.3	-	J	
PCB-118	-	-	C	106	PCB-168	ND	4.06		
PCB-119	27.7	-			PCB-169	ND	4.20		
PCB-120	ND	4.88			PCB-170	40.2	-		
PCB-121	3800	-			PCB-171	13.9	-	J	
PCB-122	5.50	-	J		PCB-172	133	-		
PCB-123	10.0	-	J		PCB-173	ND	3.82		
PCB-124	22.8	-			PCB-174	61.4	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.46		
PCB-126	ND	3.88			PCB-176	12.8	-	J	
PCB-127	ND	3.45			PCB-177	35.6	-		
PCB-128	59.5	-	C	162	PCB-178	22.3	-		
PCB-129	25.3	-			PCB-179	41.9	-		
PCB-130	40.8	-			PCB-180	105	-		
PCB-131	15.9	-	C,J	133	PCB-181	ND	3.39		
PCB-132	182	-	C	161	PCB-182	86.5	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	47.1	-		
PCB-134	39.7	-	C	143	PCB-184	4440	-		
PCB-135	100	-			PCB-185	ND	3.46		
PCB-136	109	-			PCB-186	ND	2.57		
PCB-137	21.6	-			PCB-187	-	-	C182	182
PCB-138	403	-	C	163/164	PCB-188	ND	2.50		
PCB-139	477	-	C	149	PCB-189	ND	2.68		
PCB-140	ND	4.92			PCB-190	12.6	-	J	
PCB-141	74.0	-			PCB-191	ND	2.83		
PCB-142	6240	-			PCB-192	3200	-		
PCB-143	-	-	C134	134	PCB-193	16.1	-	J	
PCB-144	27.7	-			PCB-194	12.6	-	J	
PCB-145	ND	2.52			PCB-195	ND	3.93		
PCB-146	95.3	-	C	165	PCB-196	15.0	-	C,J	203
PCB-147	13.2	-	J		PCB-197	45.1	-		
PCB-148	ND	3.31			PCB-198	ND	3.94		
PCB-149	-	-	C139	139	PCB-199	20.7	-		
PCB-150	ND	2.47			PCB-200	ND	2.91		

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EPA Method 1668
PCBs

FAL ID: 11704-014-SA
Client ID: LDW-Y1-IN-ENR-CB-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.86		
PCB-202	ND	2.83		
PCB-203	-	-	C196,J	196
PCB-204	8890	-		
PCB-205	ND	2.59		
PCB-206	ND	4.00		
PCB-207	32.2	-		
PCB-208	ND	2.90		
PCB-209	41.6	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	88.9	5.00 - 145	
13C-PCB-3	90.2	5.00 - 145	
13C-PCB-4	96.9	5.00 - 145	
13C-PCB-15	103	5.00 - 145	
13C-PCB-19	92.4	5.00 - 145	
13C-PCB-37	113	5.00 - 145	
13C-PCB-54	99.3	5.00 - 145	
13C-PCB-77	115	10.0 - 145	
13C-PCB-81	117	10.0 - 145	
13C-PCB-104	96.9	10.0 - 145	
13C-PCB-105	110	10.0 - 145	
13C-PCB-114	111	10.0 - 145	
13C-PCB-118	113	10.0 - 145	
13C-PCB-123	110	10.0 - 145	
13C-PCB-126	108	10.0 - 145	
13C-PCB-155	102	10.0 - 145	
13C-PCB-156	97.0	10.0 - 145	
13C-PCB-157	97.9	10.0 - 145	
13C-PCB-167	98.5	10.0 - 145	
13C-PCB-169	94.5	10.0 - 145	
13C-PCB-188	95.0	10.0 - 145	
13C-PCB-189	88.9	10.0 - 145	
13C-PCB-202	90.8	10.0 - 145	
13C-PCB-205	100	10.0 - 145	
13C-PCB-206	85.3	10.0 - 145	
13C-PCB-208	99.2	10.0 - 145	
13C-PCB-209	82.8	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	110	5.00 - 145	
13C-PCB-111	102	10.0 - 145	
13C-PCB-178	93.3	10.0 - 145	

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

Analyst: _____

Date: 8/1/2018

Reviewed By: _____

Date: 8/1/2018

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EPA Method 1668
PCBs

FAL ID: 11704-015-SA
Client ID: LDW-Y1-IN-ENR-CC-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018
Total Conc: 39200

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	3.56			PCB-51	25.9	-		
PCB-2	ND	3.87			PCB-52	624	-	C	69
PCB-3	ND	3.67			PCB-53	89.6	-		
PCB-4	36.0	-			PCB-54	ND	3.05		
PCB-5	ND	4.56			PCB-55	39.6	-		
PCB-6	25.6	-			PCB-56	72.9	-	C	60
PCB-7	ND	4.53			PCB-57	5.18	-	J	
PCB-8	51.3	-			PCB-58	ND	3.08		
PCB-9	ND	4.60			PCB-59	-	-	C042	42
PCB-10	ND	5.14			PCB-60	-	-	C056	56
PCB-11	38.3	-			PCB-61	162	-	C	70
PCB-12	ND	4.70			PCB-62	ND	3.17		
PCB-13	ND	4.76			PCB-63	8.80	-	J	
PCB-14	114	-			PCB-64	-	-	C041	41/71/72
PCB-15	30.5	-			PCB-65	ND	3.32		
PCB-16	39.1	-			PCB-66	175	-	C	76
PCB-17	75.7	-			PCB-67	10.0	-	J	
PCB-18	184	-			PCB-68	11.6	-	J	
PCB-19	28.7	-			PCB-69	-	-	C052	52
PCB-20	52.6	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	35.3	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	6.00			PCB-73	ND	3.06		
PCB-24	15.3	-	J		PCB-74	75.1	-		
PCB-25	38.7	-			PCB-75	-	-	C048	48
PCB-26	95.5	-			PCB-76	-	-	C066	66
PCB-27	20.4	-			PCB-77	11.0	-	J	
PCB-28	136	-			PCB-78	1950	-		
PCB-29	ND	6.00			PCB-79	7.50	-	J	
PCB-30	ND	3.90			PCB-80	8.65	-	J	
PCB-31	152	-			PCB-81	19.8	-	J	
PCB-32	47.5	-			PCB-82	47.6	-		
PCB-33	-	-	C020	20/21	PCB-83	35.7	-	C	112
PCB-34	ND	6.47			PCB-84	351	-	C	92
PCB-35	ND	6.77			PCB-85	69.7	-	C	116
PCB-36	450	-			PCB-86	ND	3.26		
PCB-37	20.1	-			PCB-87	171	-	C	117/125
PCB-38	ND	6.04			PCB-88	41.2	-	C	91
PCB-39	ND	6.22			PCB-89	ND	3.95		
PCB-40	45.0	-			PCB-90	527	-	C	101
PCB-41	189	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	94.1	-	C	59	PCB-92	-	-	C084	84
PCB-43	381	-	C	49	PCB-93	ND	4.10		
PCB-44	268	-			PCB-94	ND	4.49		
PCB-45	51.6	-			PCB-95	635	-		
PCB-46	20.7	-			PCB-96	ND	3.30		
PCB-47	110	-			PCB-97	125	-		
PCB-48	46.7	-	C	75	PCB-98	ND	7.46	C	102
PCB-49	-	-	C043	43	PCB-99	241	-		
PCB-50	8.12	-	J		PCB-100	ND	3.76		

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EPA Method 1668
PCBs

FAL ID: 11704-015-SA
Client ID: LDW-Y1-IN-ENR-CC-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	119	-		
PCB-102	-	-	C098	98	PCB-152	ND	2.75		
PCB-103	16.6	-	J		PCB-153	405	-		
PCB-104	1580	-			PCB-154	18.0	-	J	
PCB-105	83.7	-			PCB-155	3210	-		
PCB-106	257	-	C	118	PCB-156	22.1	-		
PCB-107	24.9	-	C	108	PCB-157	ND	4.24		
PCB-108	-	-	C107	107	PCB-158	38.2	-	C	160
PCB-109	ND	2.80			PCB-159	ND	3.94		
PCB-110	444	-			PCB-160	-	-	C158	158
PCB-111	7.69	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	2.99			PCB-163	-	-	C138	138/164
PCB-114	6.07	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.35		
PCB-117	-	-	C087	87/125	PCB-167	11.0	-	J	
PCB-118	-	-	C	106	PCB-168	ND	4.07		
PCB-119	20.1	-			PCB-169	ND	4.06		
PCB-120	ND	2.82			PCB-170	33.7	-		
PCB-121	3390	-			PCB-171	18.4	-	J	
PCB-122	ND	3.60			PCB-172	126	-		
PCB-123	5.64	-	J		PCB-173	ND	5.18		
PCB-124	17.4	-	J		PCB-174	44.2	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.70		
PCB-126	ND	4.21			PCB-176	14.9	-	J	
PCB-127	ND	4.00			PCB-177	33.6	-		
PCB-128	44.1	-	C	162	PCB-178	26.0	-		
PCB-129	16.6	-	J		PCB-179	39.6	-		
PCB-130	31.3	-			PCB-180	89.6	-		
PCB-131	11.1	-	C,J	133	PCB-181	ND	4.60		
PCB-132	128	-	C	161	PCB-182	74.0	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	43.7	-		
PCB-134	28.8	-	C	143	PCB-184	3720	-		
PCB-135	74.2	-			PCB-185	ND	4.70		
PCB-136	83.1	-			PCB-186	ND	3.49		
PCB-137	17.2	-	J		PCB-187	-	-	C182	182
PCB-138	300	-	C	163/164	PCB-188	ND	3.47		
PCB-139	374	-	C	149	PCB-189	ND	3.53		
PCB-140	5.58	-	J		PCB-190	9.26	-	J	
PCB-141	54.6	-			PCB-191	ND	3.84		
PCB-142	5440	-			PCB-192	2690	-		
PCB-143	-	-	C134	134	PCB-193	ND	3.58		
PCB-144	21.3	-			PCB-194	13.3	-	J	
PCB-145	ND	2.64			PCB-195	ND	5.92		
PCB-146	84.4	-	C	165	PCB-196	18.1	-	C,J	203
PCB-147	13.3	-	J		PCB-197	52.5	-		
PCB-148	ND	3.47			PCB-198	ND	4.79		
PCB-149	-	-	C139	139	PCB-199	14.3	-	J	
PCB-150	ND	2.59			PCB-200	ND	3.54		

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EPA Method 1668
PCBs

FAL ID: 11704-015-SA
Client ID: LDW-Y1-IN-ENR-CC-S010
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.48		
PCB-202	ND	3.45		
PCB-203	-	-	C196,J	196
PCB-204	7270	-		
PCB-205	ND	3.90		
PCB-206	ND	4.09		
PCB-207	25.3	-		
PCB-208	ND	2.85		
PCB-209	33.3	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	83.9	5.00 - 145	
13C-PCB-3	84.0	5.00 - 145	
13C-PCB-4	92.8	5.00 - 145	
13C-PCB-15	95.5	5.00 - 145	
13C-PCB-19	83.2	5.00 - 145	
13C-PCB-37	107	5.00 - 145	
13C-PCB-54	91.9	5.00 - 145	
13C-PCB-77	106	10.0 - 145	
13C-PCB-81	108	10.0 - 145	
13C-PCB-104	94.2	10.0 - 145	
13C-PCB-105	103	10.0 - 145	
13C-PCB-114	105	10.0 - 145	
13C-PCB-118	106	10.0 - 145	
13C-PCB-123	103	10.0 - 145	
13C-PCB-126	107	10.0 - 145	
13C-PCB-155	97.3	10.0 - 145	
13C-PCB-156	92.5	10.0 - 145	
13C-PCB-157	91.9	10.0 - 145	
13C-PCB-167	93.1	10.0 - 145	
13C-PCB-169	92.4	10.0 - 145	
13C-PCB-188	88.2	10.0 - 145	
13C-PCB-189	86.9	10.0 - 145	
13C-PCB-202	88.4	10.0 - 145	
13C-PCB-205	88.2	10.0 - 145	
13C-PCB-206	79.2	10.0 - 145	
13C-PCB-208	84.6	10.0 - 145	
13C-PCB-209	73.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	99.3	5.00 - 145	
13C-PCB-111	90.6	10.0 - 145	
13C-PCB-178	83.5	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: _____

Date: 8/1/2018

Reviewed By: _____

Date: 8/1/2018

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EPA Method 1668
PCBs

FAL ID: 11704-018-SA
Client ID: LDW-Y1-SC-S010-TB
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018
Total Conc: 44200

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	4.26			PCB-51	8.35	-	J	
PCB-2	ND	4.77			PCB-52	22.2	-	C	69
PCB-3	ND	4.65			PCB-53	ND	2.61		
PCB-4	ND	4.21			PCB-54	ND	1.99		
PCB-5	ND	3.64			PCB-55	48.0	-		
PCB-6	ND	3.69			PCB-56	ND	6.57	C	60
PCB-7	ND	3.61			PCB-57	ND	2.10		
PCB-8	ND	3.67			PCB-58	ND	2.01		
PCB-9	ND	3.67			PCB-59	-	-	C042,J	42
PCB-10	ND	4.10			PCB-60	-	-	C056	56
PCB-11	384	-			PCB-61	13.6	-	C,J	70
PCB-12	ND	3.75			PCB-62	ND	2.07		
PCB-13	ND	3.80			PCB-63	ND	2.09		
PCB-14	1520	-			PCB-64	-	-	C041,J	41/71/72
PCB-15	ND	3.86			PCB-65	ND	2.17		
PCB-16	5.98	-	J		PCB-66	9.20	-	C,J	76
PCB-17	7.39	-	J		PCB-67	ND	2.13		
PCB-18	19.1	-	J		PCB-68	9.62	-	J	
PCB-19	ND	3.59			PCB-69	-	-	C052	52
PCB-20	11.8	-	C,J	21/33	PCB-70	-	-	C061,J	61
PCB-21	-	-	C020,J	20/33	PCB-71	-	-	C041,J	41/64/72
PCB-22	7.82	-	J		PCB-72	-	-	C041,J	41/64/71
PCB-23	ND	3.86			PCB-73	16.8	-	J	
PCB-24	ND	2.70			PCB-74	4.61	-	J	
PCB-25	ND	3.28			PCB-75	-	-	C048	48
PCB-26	ND	4.05			PCB-76	-	-	C066,J	66
PCB-27	ND	2.76			PCB-77	ND	6.47		
PCB-28	15.0	-	J		PCB-78	3630	-		
PCB-29	ND	3.85			PCB-79	ND	6.24		
PCB-30	ND	2.67			PCB-80	6.15	-	J	
PCB-31	15.6	-	J		PCB-81	ND	6.14		
PCB-32	5.65	-	J		PCB-82	ND	7.21		
PCB-33	-	-	C020,J	20/21	PCB-83	ND	5.23	C	112
PCB-34	ND	4.77			PCB-84	71.8	-	C	92
PCB-35	ND	4.35			PCB-85	ND	5.08	C	116
PCB-36	1420	-			PCB-86	ND	5.11		
PCB-37	ND	3.68			PCB-87	ND	4.97	C	117/125
PCB-38	ND	3.88			PCB-88	ND	4.24	C	91
PCB-39	ND	4.00			PCB-89	ND	6.19		
PCB-40	ND	3.37			PCB-90	16.0	-	C,J	101
PCB-41	10.9	-	C,J	64/71/72	PCB-91	-	-	C088	88
PCB-42	5.33	-	C,J	59	PCB-92	-	-	C084	84
PCB-43	10.2	-	C,J	49	PCB-93	ND	4.55		
PCB-44	11.9	-	J		PCB-94	ND	4.98		
PCB-45	ND	3.03			PCB-95	36.7	-		
PCB-46	ND	3.10			PCB-96	ND	3.66		
PCB-47	10.7	-	J		PCB-97	ND	4.94		
PCB-48	ND	2.23	C	75	PCB-98	ND	8.28	C	102
PCB-49	-	-	C043,J	43	PCB-99	ND	4.81		
PCB-50	7.68	-	J		PCB-100	ND	4.18		

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EPA Method 1668
PCBs

FAL ID: 11704-018-SA
Client ID: LDW-Y1-SC-S010-TB
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090,J	90	PCB-151	ND	5.81		
PCB-102	-	-	C098	98	PCB-152	ND	3.47		
PCB-103	ND	4.28			PCB-153	78.5	-		
PCB-104	2230	-			PCB-154	14.6	-	J	
PCB-105	ND	5.28			PCB-155	4110	-		
PCB-106	ND	5.17	C	118	PCB-156	ND	4.46		
PCB-107	ND	5.15	C	108	PCB-157	ND	4.37		
PCB-108	-	-	C107	107	PCB-158	ND	4.18	C	160
PCB-109	ND	4.38			PCB-159	ND	4.14		
PCB-110	11.6	-	J		PCB-160	-	-	C158	158
PCB-111	ND	3.62	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.68			PCB-163	-	-	C138	138/164
PCB-114	ND	5.13			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.57		
PCB-117	-	-	C087	87/125	PCB-167	ND	4.89		
PCB-118	-	-	C	106	PCB-168	ND	4.27		
PCB-119	ND	4.42			PCB-169	ND	4.36		
PCB-120	ND	4.42			PCB-170	ND	5.36		
PCB-121	4530	-			PCB-171	ND	4.87		
PCB-122	ND	5.03			PCB-172	148	-		
PCB-123	ND	4.55			PCB-173	ND	5.18		
PCB-124	ND	6.10			PCB-174	ND	4.66		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.70		
PCB-126	ND	5.93			PCB-176	ND	3.65		
PCB-127	ND	5.59			PCB-177	ND	5.24		
PCB-128	ND	5.04	C	162	PCB-178	ND	5.03		
PCB-129	ND	6.43			PCB-179	ND	3.60		
PCB-130	ND	6.50			PCB-180	ND	3.80		
PCB-131	ND	5.46	C	133	PCB-181	ND	4.59		
PCB-132	ND	4.96	C	161	PCB-182	ND	4.19	C	187
PCB-133	-	-	C131	131	PCB-183	ND	4.45		
PCB-134	ND	5.51	C	143	PCB-184	4880	-		
PCB-135	ND	6.00			PCB-185	ND	4.70		
PCB-136	ND	3.47			PCB-186	ND	3.49		
PCB-137	ND	5.47			PCB-187	-	-	C182	182
PCB-138	ND	4.21	C	163/164	PCB-188	ND	3.33		
PCB-139	ND	5.05	C	149	PCB-189	ND	3.69		
PCB-140	ND	5.17			PCB-190	ND	3.81		
PCB-141	ND	5.55			PCB-191	ND	3.84		
PCB-142	7110	-			PCB-192	3630	-		
PCB-143	-	-	C134	134	PCB-193	ND	3.58		
PCB-144	ND	5.30			PCB-194	ND	5.15		
PCB-145	ND	3.33			PCB-195	ND	5.77		
PCB-146	ND	4.70	C	165	PCB-196	ND	4.14	C	203
PCB-147	ND	5.35			PCB-197	55.2	-		
PCB-148	ND	4.37			PCB-198	ND	4.82		
PCB-149	-	-	C139	139	PCB-199	ND	4.29		
PCB-150	ND	3.26			PCB-200	ND	3.57		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11704-018-SA
Client ID: LDW-Y1-SC-S010-TB
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.50		
PCB-202	ND	3.47		
PCB-203	-	-	C196	196
PCB-204	10000	-		
PCB-205	ND	3.81		
PCB-206	ND	3.13		
PCB-207	42.2	-		
PCB-208	ND	2.13		
PCB-209	38.3	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	91.5	5.00 - 145	
13C-PCB-3	88.8	5.00 - 145	
13C-PCB-4	100	5.00 - 145	
13C-PCB-15	105	5.00 - 145	
13C-PCB-19	95.1	5.00 - 145	
13C-PCB-37	118	5.00 - 145	
13C-PCB-54	101	5.00 - 145	
13C-PCB-77	116	10.0 - 145	
13C-PCB-81	117	10.0 - 145	
13C-PCB-104	103	10.0 - 145	
13C-PCB-105	113	10.0 - 145	
13C-PCB-114	114	10.0 - 145	
13C-PCB-118	114	10.0 - 145	
13C-PCB-123	110	10.0 - 145	
13C-PCB-126	116	10.0 - 145	
13C-PCB-155	105	10.0 - 145	
13C-PCB-156	103	10.0 - 145	
13C-PCB-157	106	10.0 - 145	
13C-PCB-167	102	10.0 - 145	
13C-PCB-169	105	10.0 - 145	
13C-PCB-188	97.9	10.0 - 145	
13C-PCB-189	96.8	10.0 - 145	
13C-PCB-202	100	10.0 - 145	
13C-PCB-205	96.8	10.0 - 145	
13C-PCB-206	83.7	10.0 - 145	
13C-PCB-208	92.5	10.0 - 145	
13C-PCB-209	87.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	104	5.00 - 145	
13C-PCB-111	95.4	10.0 - 145	
13C-PCB-178	90.1	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: _____

Date: 8/1/2018

Reviewed By: _____

Date: 8/1/2018

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EPA Method 1668
PCBs

FAL ID: 11704-019-SA
Client ID: LDW-Y1-SU-S010-TB
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018
Total Conc: 42900

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	5.31			PCB-51	ND	4.18		
PCB-2	ND	5.92			PCB-52	24.2	-	C	69
PCB-3	ND	5.73			PCB-53	ND	4.25		
PCB-4	ND	6.65			PCB-54	ND	3.24		
PCB-5	ND	5.61			PCB-55	41.9	-		
PCB-6	ND	5.68			PCB-56	ND	6.66	C	60
PCB-7	ND	5.57			PCB-57	ND	3.41		
PCB-8	ND	5.66			PCB-58	ND	3.27		
PCB-9	ND	5.66			PCB-59	-	-	C042	42
PCB-10	ND	6.32			PCB-60	-	-	C056	56
PCB-11	296	-			PCB-61	11.8	-	C,J	70
PCB-12	ND	5.78			PCB-62	ND	3.37		
PCB-13	ND	5.85			PCB-63	ND	3.41		
PCB-14	1540	-			PCB-64	-	-	C041,J	41/71/72
PCB-15	ND	5.83			PCB-65	ND	3.53		
PCB-16	ND	6.63			PCB-66	8.69	-	C,J	76
PCB-17	ND	7.30			PCB-67	ND	3.46		
PCB-18	17.5	-	J		PCB-68	9.67	-	J	
PCB-19	ND	7.49			PCB-69	-	-	C052	52
PCB-20	14.4	-	C,J	21/33	PCB-70	-	-	C061,J	61
PCB-21	-	-	C020,J	20/33	PCB-71	-	-	C041,J	41/64/72
PCB-22	ND	6.22			PCB-72	-	-	C041,J	41/64/71
PCB-23	ND	6.18			PCB-73	16.2	-	J	
PCB-24	ND	5.63			PCB-74	6.54	-	J	
PCB-25	ND	5.27			PCB-75	-	-	C048	48
PCB-26	ND	6.50			PCB-76	-	-	C066,J	66
PCB-27	ND	5.76			PCB-77	ND	6.65		
PCB-28	15.5	-	J		PCB-78	3260	-		
PCB-29	ND	6.18			PCB-79	ND	6.33		
PCB-30	ND	5.56			PCB-80	8.84	-	J	
PCB-31	16.8	-	J		PCB-81	ND	6.14		
PCB-32	ND	6.56			PCB-82	ND	11.0		
PCB-33	-	-	C020,J	20/21	PCB-83	ND	8.00	C	112
PCB-34	ND	6.67			PCB-84	69.1	-	C	92
PCB-35	ND	6.98			PCB-85	ND	7.77	C	116
PCB-36	1300	-			PCB-86	ND	7.81		
PCB-37	ND	5.90			PCB-87	ND	7.60	C	117/125
PCB-38	ND	6.23			PCB-88	ND	4.47	C	91
PCB-39	ND	6.41			PCB-89	ND	9.47		
PCB-40	ND	5.48			PCB-90	18.9	-	C,J	101
PCB-41	11.1	-	C,J	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	3.64	C	59	PCB-92	-	-	C084	84
PCB-43	14.7	-	C,J	49	PCB-93	ND	4.80		
PCB-44	14.1	-	J		PCB-94	ND	5.25		
PCB-45	ND	4.93			PCB-95	40.7	-		
PCB-46	ND	5.05			PCB-96	ND	3.86		
PCB-47	9.05	-	J		PCB-97	ND	7.56		
PCB-48	ND	3.64	C	75	PCB-98	ND	8.73	C	102
PCB-49	-	-	C043,J	43	PCB-99	ND	7.36		
PCB-50	ND	4.32			PCB-100	ND	4.40		

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EPA Method 1668
PCBs

FAL ID: 11704-019-SA
Client ID: LDW-Y1-SU-S010-TB
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090,J	90	PCB-151	ND	6.29		
PCB-102	-	-	C098	98	PCB-152	ND	3.14		
PCB-103	ND	4.51			PCB-153	85.3	-		
PCB-104	2220	-			PCB-154	ND	3.41		
PCB-105	ND	6.23			PCB-155	4070	-		
PCB-106	ND	6.48	C	118	PCB-156	ND	5.09		
PCB-107	ND	6.33	C	108	PCB-157	ND	4.64		
PCB-108	-	-	C107	107	PCB-158	ND	4.52	C	160
PCB-109	ND	6.70			PCB-159	ND	4.47		
PCB-110	14.8	-	J		PCB-160	-	-	C158	158
PCB-111	ND	5.53	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	7.16			PCB-163	-	-	C138	138/164
PCB-114	ND	6.33			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.94		
PCB-117	-	-	C087	87/125	PCB-167	ND	4.93		
PCB-118	-	-	C	106	PCB-168	ND	4.62		
PCB-119	ND	6.75			PCB-169	ND	4.89		
PCB-120	ND	6.77			PCB-170	ND	6.34		
PCB-121	4230	-			PCB-171	ND	5.75		
PCB-122	ND	6.19			PCB-172	161	-		
PCB-123	ND	5.72			PCB-173	ND	6.12		
PCB-124	ND	7.51			PCB-174	ND	5.51		
PCB-125	-	-	C087	87/117	PCB-175	ND	5.56		
PCB-126	ND	7.22			PCB-176	ND	4.31		
PCB-127	ND	6.88			PCB-177	ND	6.20		
PCB-128	ND	5.45	C	162	PCB-178	ND	5.94		
PCB-129	ND	6.95			PCB-179	ND	4.26		
PCB-130	ND	7.03			PCB-180	ND	4.50		
PCB-131	ND	5.90	C	133	PCB-181	ND	5.43		
PCB-132	ND	5.36	C	161	PCB-182	ND	4.95	C	187
PCB-133	-	-	C131	131	PCB-183	ND	5.27		
PCB-134	ND	5.95	C	143	PCB-184	4810	-		
PCB-135	ND	6.49			PCB-185	ND	5.55		
PCB-136	ND	3.14			PCB-186	ND	4.13		
PCB-137	ND	5.92			PCB-187	-	-	C182	182
PCB-138	ND	4.55	C	163/164	PCB-188	ND	4.16		
PCB-139	ND	5.46	C	149	PCB-189	ND	4.10		
PCB-140	ND	5.60			PCB-190	ND	4.51		
PCB-141	ND	6.01			PCB-191	ND	4.54		
PCB-142	6760	-			PCB-192	3460	-		
PCB-143	-	-	C134	134	PCB-193	ND	4.23		
PCB-144	ND	5.74			PCB-194	ND	5.76		
PCB-145	ND	3.01			PCB-195	ND	6.46		
PCB-146	ND	5.08	C	165	PCB-196	ND	6.42	C	203
PCB-147	ND	5.78			PCB-197	70.6	-		
PCB-148	ND	3.96			PCB-198	ND	7.48		
PCB-149	-	-	C139	139	PCB-199	ND	6.66		
PCB-150	ND	2.95			PCB-200	ND	5.53		

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EPA Method 1668
PCBs

FAL ID: 11704-019-SA
Client ID: LDW-Y1-SU-S010-TB
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	5.43		
PCB-202	ND	5.38		
PCB-203	-	-	C196	196
PCB-204	10200	-		
PCB-205	ND	4.26		
PCB-206	ND	3.42		
PCB-207	35.4	-		
PCB-208	ND	2.54		
PCB-209	44.7	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	84.7	5.00 - 145	
13C-PCB-3	85.9	5.00 - 145	
13C-PCB-4	95.6	5.00 - 145	
13C-PCB-15	98.9	5.00 - 145	
13C-PCB-19	91.7	5.00 - 145	
13C-PCB-37	116	5.00 - 145	
13C-PCB-54	91.5	5.00 - 145	
13C-PCB-77	112	10.0 - 145	
13C-PCB-81	116	10.0 - 145	
13C-PCB-104	97.4	10.0 - 145	
13C-PCB-105	109	10.0 - 145	
13C-PCB-114	110	10.0 - 145	
13C-PCB-118	110	10.0 - 145	
13C-PCB-123	111	10.0 - 145	
13C-PCB-126	110	10.0 - 145	
13C-PCB-155	102	10.0 - 145	
13C-PCB-156	96.2	10.0 - 145	
13C-PCB-157	94.0	10.0 - 145	
13C-PCB-167	95.6	10.0 - 145	
13C-PCB-169	94.6	10.0 - 145	
13C-PCB-188	93.6	10.0 - 145	
13C-PCB-189	89.2	10.0 - 145	
13C-PCB-202	90.6	10.0 - 145	
13C-PCB-205	87.8	10.0 - 145	
13C-PCB-206	80.9	10.0 - 145	
13C-PCB-208	87.0	10.0 - 145	
13C-PCB-209	72.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	107	5.00 - 145	
13C-PCB-111	97.6	10.0 - 145	
13C-PCB-178	88.3	10.0 - 145	

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

Analyst: _____

Date: 8/1/2018

Reviewed By: _____

Date: 8/1/2018

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EPA Method 1668
PCBs

FAL ID: 11704-020-SA
Client ID: LDW-Y1-IN-S010-TB
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018
Total Conc: 42500

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	3.77			PCB-51	6.85	-	J	
PCB-2	ND	4.13			PCB-52	23.2	-	C	69
PCB-3	ND	3.94			PCB-53	ND	2.98		
PCB-4	ND	4.70			PCB-54	ND	2.27		
PCB-5	ND	4.09			PCB-55	42.7	-		
PCB-6	ND	4.14			PCB-56	ND	6.57	C	60
PCB-7	ND	4.06			PCB-57	ND	2.39		
PCB-8	ND	4.12			PCB-58	ND	2.30		
PCB-9	ND	4.13			PCB-59	-	-	C042	42
PCB-10	ND	4.61			PCB-60	-	-	C056	56
PCB-11	279	-			PCB-61	12.0	-	C,J	70
PCB-12	ND	4.22			PCB-62	ND	2.36		
PCB-13	ND	4.27			PCB-63	ND	2.39		
PCB-14	1410	-			PCB-64	-	-	C041,J	41/71/72
PCB-15	ND	4.35			PCB-65	ND	2.48		
PCB-16	ND	4.79			PCB-66	7.77	-	C,J	76
PCB-17	ND	5.26			PCB-67	ND	2.43		
PCB-18	16.8	-	J		PCB-68	8.09	-	J	
PCB-19	ND	5.40			PCB-69	-	-	C052	52
PCB-20	12.1	-	C,J	21/33	PCB-70	-	-	C061,J	61
PCB-21	-	-	C020,J	20/33	PCB-71	-	-	C041,J	41/64/72
PCB-22	ND	5.03			PCB-72	-	-	C041,J	41/64/71
PCB-23	ND	4.99			PCB-73	15.0	-	J	
PCB-24	ND	4.06			PCB-74	5.85	-	J	
PCB-25	ND	4.25			PCB-75	-	-	C048	48
PCB-26	ND	5.25			PCB-76	-	-	C066,J	66
PCB-27	ND	4.16			PCB-77	ND	6.57		
PCB-28	15.5	-	J		PCB-78	3430	-		
PCB-29	ND	4.99			PCB-79	ND	6.24		
PCB-30	ND	4.01			PCB-80	8.80	-	J	
PCB-31	16.1	-	J		PCB-81	ND	6.04		
PCB-32	ND	4.73			PCB-82	ND	7.76		
PCB-33	-	-	C020,J	20/21	PCB-83	ND	5.63	C	112
PCB-34	ND	5.39			PCB-84	65.8	-	C	92
PCB-35	ND	5.64			PCB-85	ND	5.47	C	116
PCB-36	1340	-			PCB-86	ND	5.50		
PCB-37	ND	4.77			PCB-87	ND	5.35	C	117/125
PCB-38	ND	5.03			PCB-88	ND	3.70	C	91
PCB-39	ND	5.18			PCB-89	ND	6.66		
PCB-40	ND	3.85			PCB-90	18.8	-	C,J	101
PCB-41	10.3	-	C,J	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	2.55	C	59	PCB-92	-	-	C084	84
PCB-43	13.0	-	C,J	49	PCB-93	25.8	-		
PCB-44	15.0	-	J		PCB-94	ND	4.34		
PCB-45	ND	3.46			PCB-95	13.9	-	J	
PCB-46	ND	3.54			PCB-96	ND	3.19		
PCB-47	8.73	-	J		PCB-97	ND	5.32		
PCB-48	ND	2.55	C	75	PCB-98	ND	7.22	C	102
PCB-49	-	-	C043,J	43	PCB-99	ND	5.18		
PCB-50	6.80	-	J		PCB-100	ND	3.64		

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EPA Method 1668
PCBs

FAL ID: 11704-020-SA
Client ID: LDW-Y1-IN-S010-TB
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090,J	90	PCB-151	ND	5.42		
PCB-102	-	-	C098	98	PCB-152	ND	3.01		
PCB-103	ND	3.73			PCB-153	75.6	-		
PCB-104	2090	-			PCB-154	13.2	-	J	
PCB-105	ND	4.58			PCB-155	3990	-		
PCB-106	ND	4.50	C	118	PCB-156	ND	4.20		
PCB-107	ND	4.52	C	108	PCB-157	ND	4.00		
PCB-108	-	-	C107	107	PCB-158	ND	3.90	C	160
PCB-109	ND	4.72			PCB-159	ND	3.85		
PCB-110	10.3	-	J		PCB-160	-	-	C158	158
PCB-111	ND	3.89	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.04			PCB-163	-	-	C138	138/164
PCB-114	ND	4.74			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.26		
PCB-117	-	-	C087	87/125	PCB-167	ND	4.47		
PCB-118	-	-	C	106	PCB-168	ND	3.98		
PCB-119	ND	4.75			PCB-169	ND	4.18		
PCB-120	ND	4.76			PCB-170	ND	5.12		
PCB-121	4230	-			PCB-171	ND	4.64		
PCB-122	ND	4.42			PCB-172	156	-		
PCB-123	ND	3.87			PCB-173	ND	4.94		
PCB-124	ND	5.35			PCB-174	ND	4.44		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.48		
PCB-126	ND	5.24			PCB-176	ND	3.48		
PCB-127	ND	4.91			PCB-177	ND	5.00		
PCB-128	ND	4.69	C	162	PCB-178	ND	4.79		
PCB-129	ND	5.99			PCB-179	ND	3.44		
PCB-130	ND	6.06			PCB-180	ND	3.62		
PCB-131	ND	5.09	C	133	PCB-181	ND	4.38		
PCB-132	ND	4.62	C	161	PCB-182	ND	3.99	C	187
PCB-133	-	-	C131	131	PCB-183	ND	4.25		
PCB-134	ND	5.13	C	143	PCB-184	4870	-		
PCB-135	ND	5.59			PCB-185	ND	4.48		
PCB-136	ND	3.01			PCB-186	ND	3.33		
PCB-137	ND	5.10			PCB-187	-	-	C182	182
PCB-138	ND	3.92	C	163/164	PCB-188	ND	3.26		
PCB-139	ND	4.71	C	149	PCB-189	ND	3.42		
PCB-140	ND	4.82			PCB-190	ND	3.64		
PCB-141	ND	5.17			PCB-191	ND	3.66		
PCB-142	6520	-			PCB-192	3500	-		
PCB-143	-	-	C134	134	PCB-193	ND	3.41		
PCB-144	ND	4.94			PCB-194	ND	4.27		
PCB-145	ND	2.89			PCB-195	ND	4.79		
PCB-146	ND	4.38	C	165	PCB-196	ND	4.09	C	203
PCB-147	ND	4.98			PCB-197	56.7	-		
PCB-148	ND	3.79			PCB-198	ND	4.76		
PCB-149	-	-	C139	139	PCB-199	ND	4.24		
PCB-150	ND	2.83			PCB-200	ND	3.52		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11704-020-SA
Client ID: LDW-Y1-IN-S010-TB
Matrix: Solvent
Batch No: X4579

Date Extracted: 07-16-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-25-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-25-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.46		
PCB-202	ND	3.42		
PCB-203	-	-	C196	196
PCB-204	10100	-		
PCB-205	ND	3.16		
PCB-206	ND	2.63		
PCB-207	38.1	-		
PCB-208	ND	1.99		
PCB-209	41.4	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	88.2	5.00 - 145	
13C-PCB-3	88.5	5.00 - 145	
13C-PCB-4	98.5	5.00 - 145	
13C-PCB-15	102	5.00 - 145	
13C-PCB-19	89.0	5.00 - 145	
13C-PCB-37	115	5.00 - 145	
13C-PCB-54	98.4	5.00 - 145	
13C-PCB-77	116	10.0 - 145	
13C-PCB-81	119	10.0 - 145	
13C-PCB-104	103	10.0 - 145	
13C-PCB-105	113	10.0 - 145	
13C-PCB-114	115	10.0 - 145	
13C-PCB-118	115	10.0 - 145	
13C-PCB-123	113	10.0 - 145	
13C-PCB-126	113	10.0 - 145	
13C-PCB-155	105	10.0 - 145	
13C-PCB-156	103	10.0 - 145	
13C-PCB-157	100	10.0 - 145	
13C-PCB-167	98.2	10.0 - 145	
13C-PCB-169	101	10.0 - 145	
13C-PCB-188	94.1	10.0 - 145	
13C-PCB-189	93.5	10.0 - 145	
13C-PCB-202	97.1	10.0 - 145	
13C-PCB-205	94.7	10.0 - 145	
13C-PCB-206	82.5	10.0 - 145	
13C-PCB-208	89.4	10.0 - 145	
13C-PCB-209	75.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	116	5.00 - 145	
13C-PCB-111	101	10.0 - 145	
13C-PCB-178	92.7	10.0 - 145	

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

Analyst: _____

Date: 8/1/2018

Reviewed By: _____

Date: 8/1/2018

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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.: 11704
Temperature: 1 °C

Chain of Custody

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CLIENT INFORMATION
Company Name: Floyd Snider
Contact Name: Gretchen Heavner
Address: 601 Union St. 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: Dianne Shannon + Crystal Thimsen
Address: 3500 188th St. SW Suite 601, Lynnwood, WA 98037
Phone: 425-921-4008 Fax:
Email: dianne.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

****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-Y1-SU-ENR+AC-CE-S010	6/30/18	1220	hexane									✓			process, do not run on GC
2	LDW-Y1-SU-ENR-CA-S010		1335										✓			process and run on GC
3	LDW-Y1-SU-ENR-CB-S010		1341										✓			process and run on GC
4	LDW-Y1-SU-ENR-CC-S010		1350										✓			process and run on GC
5	LDW-Y1-SU-ENR-CD-S010		1357										✓			process, do not run on GC
6	LDW-Y1-SU-ENR-CE-S010		1403										✓			process, do not run on GC
7	LDW-Y1-SU-S010-LCB		1413										✓			process and run on GC
8	LDW-Y1-IN-ENR+AC-CA-S010		1617										✓			process and run on GC
9	LDW-Y1-IN-ENR+AC-CB-S010		1623										✓			process and run on GC
10	LDW-Y1-IN-ENR+AC-CC-S010		1630										✓			process and run on GC
11	LDW-Y1-IN-ENR+AC-CD-S010		1636										✓			process, do not run on GC
12	LDW-Y1-IN-ENR+AC-CE-S010		1643										✓			process, do not run on GC
13	LDW-Y1-IN-ENR-CA-S010		1659										✓			process and run on GC
14	LDW-Y1-IN-ENR-CB-S010		1707										✓			process and run on GC
15	LDW-Y1-IN-ENR-CC-S010		1713										✓			process and 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	7/2/18	1100	[illegible]	7.3.18	915

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.

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

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.: 11704
Temperature: 1 °C

Chain of Custody

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2 of 2

Please Print in Pen Page 3 of 3

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: Dianne Shannon + Crystal Thimsen	P.O. #: C013106435
Address: 601 Union St, 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: dianne.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 DISTRIBUTION (email only is preferred)	ADDITIONAL INSTRUCTIONS
Report Level: ☐ I/II ☐ III ☑ IV	☐ Hardcopy	
☑ EDD: ☐ FAL Basic ☐ Geotracker ☑ Other: FS1 ☐ Custom: Contact FAL	☐ CD (.pdf including EDDs if requested)	
	☑ Email (.pdf including EDDs if requested)	

☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

**CONGENERS	**TEQ
☐ 2,3,7,8-TCDD only	☐ 1998 WHO
☐ 2,3,7,8-TCDD/F only	☐ 2005 WHO
☐ PCDD/F (Cl_4-Cl_8)	☐ 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-Y1-IN-ENR-CD-S010	6/30/18	1723	hexane									✓			process, do not run on GC
2	LDW-Y1-IN-ENR-CE-S010	↓	1730	↓									✓			process, do not run on GC
3	LDW-Y1-SC-S010-TB		1604										✓			process and run on GC
4	LDW-Y1-SU-S010-TB		1522										✓			process and run on GC
5	LDW-Y1-IN-S010-TB	↓	1538	↓									✓			process and run on GC
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

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	7/2/18	1100	[illegible]	7-3-18	915

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.

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

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **11704**

Client:	Floyd | Snider
Client Project ID:	LY15160310
Date Received:	07/03/2018
Time Received:	09:15 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	20
Duplicates:	0
Storage Location:	R-3

Method of Delivery:	Fed-Ex
Tracking Number:	772616388169
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
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:	

5172 Hillsdale Circle * El Dorado Hills, CA 95762 * Tel (916) 934-0900 * Fax (916) 934-0999 * www.frontieranalytical.com

Chain of Custody
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.: 11704
Temperature: 1 °C
CLIENT INFORMATION
INVOICE INFORMATION
PROJECT INFORMATION
REPORT INFORMATION
REPORT DISTRIBUTION
ADDITIONAL INSTRUCTIONS
Sample ID
Date Collected
Time Collected
Matrix
Remarks
2018/07/03

Chain of Custody
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.: 11704
Temperature: 1 °C
CLIENT INFORMATION
INVOICE INFORMATION (if different from client info)
PROJECT INFORMATION
REPORT INFORMATION
REPORT DISTRIBUTION (email only is preferred)
ADDITIONAL INSTRUCTIONS
11704-011-SA
704-013-SA
704-020-SA

Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #:	11704	Sample #:	1 - 20	Client Manager:	BS
Client:	Floyd | Snider			Hold Time:	06/30/2019
Matrix:	Solvent	Extraction Batch:	4579	Due Date:	08/01/2018
Method:	EPA 1668 PCB			Storage:	R-3
SOP:	SOPs: EP1A Rev.11 IP1A Rev.9				

COMMENTS/INSTRUCTIONS:

Results: 11704
11704-8
11704-7

Extract/s located in box: "Happyville"

Standards: ~~11593~~ QC11593
11704 ~~11596~~ 11592

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

L4 / special EDD / See 10398 for example report

Frontier Analytical Laboratory
EXTRACTION SHEET

Project #: 11704 Extraction Date: 2018-07-16 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: R171115A Vial: 5 Chemist/Witness/Date	NS Amt: 10.0uL ID: 180221A Vial: 1 Chemist/Witness/Date	CSS Amt: 10.0uL ID: R180510C Vial: 2 Chemist/Witness/Date
04579-001-0001-MB	(5.00g)	NA	KC 7.16.18	NA	KC 7.16.18
04579-001-0001-OPR	(5.00g)			KC 7.16.18	
11704-001-0001-SA	5.15mL			NA	
11704-002-0001-SA	5.30mL				
11704-003-0001-SA	5.29mL				
11704-004-0001-SA	5.37mL				
11704-005-0001-SA	5.40mL				
11704-006-0001-SA	5.36mL				
11704-007-0001-SA	5.37mL				
11704-008-0001-SA	5.25mL				
11704-009-0001-SA	5.32mL				
11704-010-0001-SA	5.31mL				
11704-011-0001-SA	5.28mL				
11704-012-0001-SA	5.28mL				
11704-013-0001-SA	5.38mL				
11704-014-0001-SA	5.29mL				
11704-015-0001-SA	5.43mL				

AX-21 Charcoal Cleaned	110617	Acetone	58019	Acid Alumina	A0380141	Hexane	58018
Methanol	180357	Methylene Chloride (DCM)	181715	Silica Gel	TA5000234	Sodium Hydroxide 1N	173537
Sodium Sulfate	18B085201	Sulfuric Acid	58032	Tetradecane	175759	Toluene	57314
Water	166416	C-18 Empore Discs	320982D	Cyclohexane	57146		

Comments:

Frontier Analytical Laboratory
EXTRACTION SHEET

Project #: 11704 Extraction Date: 2018-07-16 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: R171115A Vial: 5 Chemist/Witness/Date	NS Amt: 10.0uL ID: 180221A Vial: 1 Chemist/Witness/Date	CSS Amt: 10.0uL ID: R180510C Vial: 2 Chemist/Witness/Date
11704-016-0001-SA	5.30mL	NA	KC 7.16.18	NA	KC 7.16.18
11704-017-0001-SA	5.28mL	↓	↓	↓	↓
11704-018-0001-SA	5.32mL	↓	↓	↓	↓
11704-019-0001-SA	5.39mL	↓	↓	↓	↓
11704-020-0001-SA	5.30mL	↓	↓	↓	↓

AX-21 Charcoal Cleaned	110617	Acetone	58019	Acid Alumina	A0380141	Hexane	58018
Methanol	180357	Methylene Chloride (DCM)	181715	Silica Gel	TA5000234	Sodium Hydroxide 1N	173537
Sodium Sulfate	18B085201	Sulfuric Acid	58032	Tetradecane	175759	Toluene	57314
Water	166416	C-18 Empore Discs	320982D	Cyclohexane	57146		

Comments:

Frontier Analytical Laboratory
CLEANUP SHEET

Project #: 11704

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: 180607A Vial: 1 Chemist/Witness/Date
04579-001-0001-MB	KC 7·16·18	NA	NA	KC RR 7·16·18
04579-001-0001-OPR				
11704-001-0001-SA				
11704-002-0001-SA				
11704-003-0001-SA				
11704-004-0001-SA				
11704-005-0001-SA				
11704-006-0001-SA				
11704-007-0001-SA				
11704-008-0001-SA				
11704-009-0001-SA				
11704-010-0001-SA				
11704-011-0001-SA				
11704-012-0001-SA				
11704-013-0001-SA				
11704-014-0001-SA				
11704-015-0001-SA				

AX-21 Charcoal Cleaned	110617	Acetone	58019	Acid Alumina	A0380141	Hexane	58018
Methanol	180357	Methylene Chloride (DCM)	181715	Silica Gel	TA5000234	Sodium Hydroxide 1N	173537
Sodium Sulfate	18B085201	Sulfuric Acid	58032	Tetradecane	175759	Toluene	57314
Water	166416	C-18 Empore Discs	320982D	Cyclohexane	57146		

Comments:

Frontier Analytical Laboratory
CLEANUP SHEET

Project #: 11704

Method/Analysis: EPA 1668 PCB

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

Sample ID	Cleanup 1	Cleanup 2	Cleanup 3	RS
	PCB-MSG	NA	NA	Amt: 10.0uL ID: 180607A Vial: 1
	Chemist/Date	Chemist/Date	Chemist/Date	Chemist/Witness/Date
11704-016-0001-SA	KC 7-16-18	NA	NA	KC RR 7-16-18
11704-017-0001-SA	↓	↓	↓	↓
11704-018-0001-SA				
11704-019-0001-SA				
11704-020-0001-SA				

AX-21 Charcoal Cleaned	110617	Acetone	58019	Acid Alumina	A0380141	Hexane	58018
Methanol	180357	Methylene Chloride (DCM)	181715	Silica Gel	TA5000234	Sodium Hydroxide 1N	173537
Sodium Sulfate	18B085201	Sulfuric Acid	58032	Tetradecane	175759	Toluene	57314
Water	166416	C-18 Empore Discs	320982D	Cyclohexane	57146		

Comments:

FAL ID: 04579-001-0001-MB Filename: 25JUL18Z Sam:4 Acquired: 25-JUL-18 10:18:22 ICal: DAILY209FAL4-7-25-18
Client ID: Method Blank ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	*	n	NotFnd	1.19	*		1260	916	2.31			
13C-PCB-1	5.93e+07	3.27	y	14:35	0.80	9550					95.5	1.50e+07	4.71e+06
PCB-2	*	*	n	NotFnd	1.10	*		1260	916	2.60			
PCB-3	*	*	n	NotFnd	1.17	*		1260	916	2.54			
13C-PCB-3	6.14e+07	3.32	y	17:02	0.85	9400					94.0	1.39e+07	4.27e+06
PCB-4	*	*	n	NotFnd	1.26	*		654	1790	3.60			
PCB-10	*	*	n	NotFnd	1.15	*		654	1790	3.44			
13C-PCB-4	4.73e+07	1.59	y	18:16	0.63	9670					96.7	8.38e+06	5.17e+06
PCB-9	*	*	n	NotFnd	1.28	*		654	1790	3.08			
PCB-7	*	*	n	NotFnd	1.30	*		654	1790	3.02			
PCB-6	*	*	n	NotFnd	1.28	*		654	1790	3.08			
PCB-8	*	*	n	NotFnd	1.28	*		654	1790	3.07			
PCB-5	*	*	n	NotFnd	1.29	*		654	1790	3.05			
PCB-14	*	*	n	NotFnd	1.23	*		654	1790	3.21			
PCB-11	*	*	n	NotFnd	1.20	*		654	1790	3.27			
PCB-13	*	*	n	NotFnd	1.24	*		654	1790	3.18			
PCB-12	*	*	n	NotFnd	1.25	*		654	1790	3.14			
PCB-15	*	*	n	NotFnd	1.12	*		654	1790	3.17			
13C-PCB-15	7.28e+07	1.61	y	23:49	0.95	9920					99.2	1.06e+07	6.61e+06
PCB-19	*	*	n	NotFnd	1.26	*		900	468	3.62			
PCB-30	*	*	n	NotFnd	1.70	*		900	468	2.69			
PCB-18	*	*	n	NotFnd	1.21	*		900	468	3.78			
PCB-17	*	*	n	NotFnd	1.29	*		900	468	3.53			
PCB-27	*	*	n	NotFnd	1.64	*		900	468	2.79			
PCB-24	*	*	n	NotFnd	1.68	*		900	468	2.72			
PCB-16	*	*	n	NotFnd	1.42	*		900	468	3.21			
PCB-32	*	*	n	NotFnd	1.44	*		900	468	3.17			
13C-PCB-19	2.83e+07	1.10	y	22:09	0.40	9220					92.2	3.87e+06	3.61e+06
13C-PCB-9	7.71e+07	1.61	y	19:57	-	67.1							
PCB-34	*	*	n	NotFnd	1.09	*		1040	612	3.15			
PCB-23	*	*	n	NotFnd	1.17	*		1040	612	2.92			
PCB-29	*	*	n	NotFnd	1.18	*		1040	612	2.92			
PCB-26	*	*	n	NotFnd	1.12	*		1040	612	3.07			
PCB-25	*	*	n	NotFnd	1.38	*		1040	612	2.48			
PCB-31	*	*	n	NotFnd	1.10	*		1040	612	3.10			
PCB-28	*	*	n	NotFnd	1.34	*		1040	612	2.56			
PCB-20	*	*	n	NotFnd	1.19	*		1040	612	2.88		Co-elute PCB 21/33	
PCB-21	*	*	n	NotFnd	1.19	*		1040	612	2.88		Co-elute PCB 20/33	
PCB-33	*	*	n	NotFnd	1.19	*		1040	612	2.88		Co-elute PCB 20/21	
PCB-22	*	*	n	NotFnd	1.17	*		1040	612	2.94			
PCB-36	*	*	n	NotFnd	1.09	*		1040	612	3.14			
PCB-39	*	*	n	NotFnd	1.13	*		1040	612	3.02			
PCB-38	*	*	n	NotFnd	1.17	*		1040	612	2.94			
PCB-35	*	*	n	NotFnd	1.04	*		1040	612	3.29			
PCB-37	*	*	n	NotFnd	1.23	*		1040	612	2.79			
13C-PCB-37	5.98e+07	1.11	y	30:28	1.68	10300					103	6.25e+06	5.77e+06

PCB-54	*	*	n	NotFnd	1.19	*	548	692	2.74			
PCB-50	*	*	n	NotFnd	0.90	*	548	692	3.65			
PCB-53	*	*	n	NotFnd	0.91	*	548	692	3.59			
PCB-51	*	*	n	NotFnd	0.93	*	548	692	3.53			
PCB-45	*	*	n	NotFnd	0.78	*	548	692	4.17			
PCB-46	*	*	n	NotFnd	0.77	*	548	692	4.27			
PCB-52	*	*	n	NotFnd	1.08	*	548	692	3.03	Co-elute PCB 69		
PCB-69	*	*	n	NotFnd	1.08	*	548	692	3.03	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.19	*	548	692	2.75			
PCB-43	*	*	n	NotFnd	0.88	*	548	692	3.73	Co-elute PCB 49		
PCB-49	*	*	n	NotFnd	0.88	*	548	692	3.73	Co-elute PCB 43		
PCB-47	*	*	n	NotFnd	1.15	*	548	692	2.84			
PCB-48	*	*	n	NotFnd	1.06	*	548	692	3.08	Co-elute PCB 75		
PCB-75	*	*	n	NotFnd	1.06	*	548	692	3.08	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.09	*	548	692	2.99			
PCB-62	*	*	n	NotFnd	1.15	*	548	692	2.85			
PCB-44	*	*	n	NotFnd	0.82	*	548	692	4.01			
PCB-42	*	*	n	NotFnd	1.06	*	548	692	3.08	Co-elute PCB 59		
PCB-59	*	*	n	NotFnd	1.06	*	548	692	3.08	Co-elute PCB 42		
PCB-72	*	*	n	NotFnd	1.15	*	548	692	2.85	Co-elute PCB 41/71/64		
PCB-41	*	*	n	NotFnd	1.15	*	548	692	2.85	Co-elute PCB 72/71/64		
PCB-71	*	*	n	NotFnd	1.15	*	548	692	2.85	Co-elute PCB 72/41/64		
PCB-64	*	*	n	NotFnd	1.15	*	548	692	2.85	Co-elute PCB 72/41/71		
PCB-68	*	*	n	NotFnd	1.25	*	548	692	2.61			
PCB-40	*	*	n	NotFnd	0.71	*	548	692	4.64			
PCB-57	*	*	n	NotFnd	1.13	*	548	692	2.88			
PCB-67	*	*	n	NotFnd	1.12	*	548	692	2.93			
PCB-58	*	*	n	NotFnd	1.18	*	548	692	2.77			
PCB-63	*	*	n	NotFnd	1.14	*	548	692	2.88			
PCB-74	*	*	n	NotFnd	1.21	*	548	692	2.70			
PCB-61	*	*	n	NotFnd	1.23	*	548	692	2.66	Co-elute PCB 70		
PCB-70	*	*	n	NotFnd	1.23	*	548	692	2.66	Co-elute PCB 61		
PCB-76	*	*	n	NotFnd	1.21	*	548	692	2.71	Co-elute PCB 66		
PCB-66	*	*	n	NotFnd	1.21	*	548	692	2.71	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.30	*	548	692	2.52			
PCB-55	*	*	n	NotFnd	1.20	*	548	692	2.73			
13C-PCB-54	3.91e+07	0.81	y	25:41	1.11	10200				102	4.25e+06	5.22e+06
PCB-104	*	*	n	NotFnd	1.35	*	364	524	4.36			
PCB-96	*	*	n	NotFnd	1.22	*	364	524	4.83			
PCB-103	*	*	n	NotFnd	1.05	*	364	524	5.64			
PCB-100	*	*	n	NotFnd	1.07	*	364	524	5.51			
PCB-94	*	*	n	NotFnd	0.90	*	364	524	6.57			
PCB-98	*	*	n	NotFnd	0.54	*	364	524	10.9	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.54	*	364	524	10.9	Co-elute PCB 98		
PCB-95	*	*	n	NotFnd	1.08	*	364	524	5.46			
PCB-93	*	*	n	NotFnd	0.98	*	364	524	6.00			
PCB-88	*	*	n	NotFnd	1.06	*	364	524	5.59	Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	1.06	*	364	524	5.59	Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.10	*	364	524	5.38			
13C-PCB-104	1.71e+07	1.62	y	30:07	0.50	9830				98.3	2.31e+06	1.45e+06
13C-PCB-28	6.54e+07	1.06	y	26:47	1.97	9640				96.4	8.07e+06	7.51e+06
13C-PCB-52	3.45e+07	0.82	y	29:02	-	61.5						

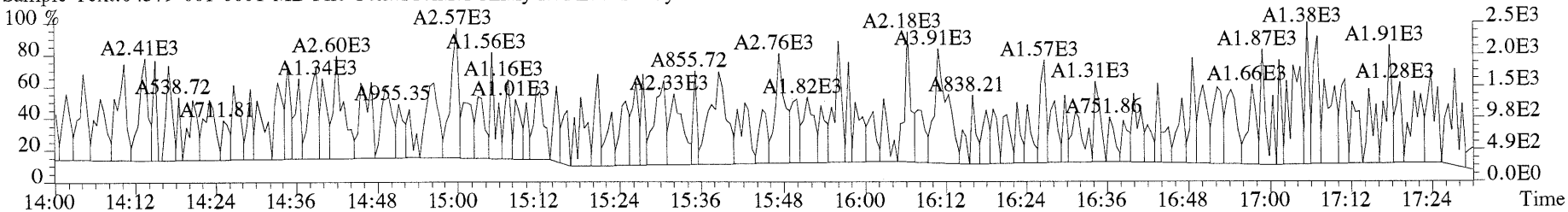
PCB-56	*	*	n	NotFnd	1.08	*	556	684	3.59			Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.08	*	556	684	3.59			Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.14	*	556	684	3.41			
PCB-78	*	*	n	NotFnd	1.09	*	556	684	3.55			
PCB-81	*	*	n	NotFnd	1.14	*	556	684	3.44			
13C-PCB-81	4.36e+07	0.82	y	36:14	1.57	10500				105	3.56e+06	4.30e+06
PCB-77	*	*	n	NotFnd	1.11	*	556	684	3.45			
13C-PCB-77	4.48e+07	0.83	y	36:48	1.61	10500				105	3.64e+06	4.48e+06
PCB-155	*	*	n	NotFnd	1.24	*	420	384	4.14			
PCB-150	*	*	n	NotFnd	1.13	*	420	384	4.55			
PCB-152	*	*	n	NotFnd	1.06	*	420	384	4.84			
PCB-145	*	*	n	NotFnd	1.10	*	420	384	4.64			
PCB-136	*	*	n	NotFnd	1.06	*	420	384	4.84			
PCB-148	*	*	n	NotFnd	0.84	*	420	384	6.10			
PCB-154	*	*	n	NotFnd	0.97	*	420	384	5.26			
13C-PCB-155	1.84e+07	1.31	y	34:17	0.67	10300				103	2.22e+06	1.70e+06
13C-PCB-111	2.71e+07	1.63	y	36:23	1.16	8840				88.4	3.24e+06	1.97e+06
13C-PCB-101	2.65e+07	1.64	y	34:45	-	55.9						
PCB-84	*	*	n	NotFnd	0.61	*	621	756	7.08			Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.61	*	621	756	7.08			Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.58	*	621	756	7.44			
PCB-90	*	*	n	NotFnd	0.68	*	621	756	6.36			Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.68	*	621	756	6.36			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.77	*	621	756	5.63			
PCB-99	*	*	n	NotFnd	0.75	*	621	756	5.78			
PCB-119	*	*	n	NotFnd	0.81	*	621	756	5.31			
PCB-83	*	*	n	NotFnd	0.69	*	621	756	6.28			Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.69	*	621	756	6.28			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.82	*	621	756	5.26			
PCB-97	*	*	n	NotFnd	0.73	*	621	756	5.94			
PCB-86	*	*	n	NotFnd	0.70	*	621	756	6.14			
PCB-125	*	*	n	NotFnd	0.72	*	621	756	5.97			Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.72	*	621	756	5.97			Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.72	*	621	756	5.97			Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	0.99	*	621	756	4.35			Co-elute PCB 115
PCB-115	*	*	n	NotFnd	0.99	*	621	756	4.35			Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.71	*	621	756	6.10			Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.71	*	621	756	6.10			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.81	*	621	756	5.32			
PCB-110	*	*	n	NotFnd	0.96	*	621	756	4.51			
PCB-82	*	*	n	NotFnd	0.50	*	621	756	8.66			
PCB-124	*	*	n	NotFnd	0.91	*	748	1490	7.75			
PCB-108	*	*	n	NotFnd	1.07	*	748	1490	6.54			Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.07	*	748	1490	6.54			Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.23	*	748	1490	5.46			
13C-PCB-123	3.92e+07	1.60	y	38:26	1.40	10200				102	5.09e+06	3.21e+06
PCB-118	*	*	n	NotFnd	1.03	*	748	1490	7.04			Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.03	*	748	1490	7.04			Co-elute PCB 118
13C-PCB-118	4.44e+07	1.59	y	38:36	1.53	10600				106	4.74e+06	2.96e+06
PCB-114	*	*	n	NotFnd	1.07	*	748	1490	6.48			
13C-PCB-114	4.13e+07	1.59	y	39:13	1.46	10300				103	4.98e+06	3.12e+06
PCB-122	*	*	n	NotFnd	1.10	*	748	1490	6.40			
PCB-105	*	*	n	NotFnd	1.08	*	748	1490	6.64			
13C-PCB-105	4.11e+07	1.60	y	40:03	1.44	10400				104	4.90e+06	2.95e+06

PCB-127	*	*	n	NotFnd	0.99	*	748	1490	7.11				
PCB-126	*	*	n	NotFnd	1.12	*	748	1490	7.54				
13C-PCB-126	3.79e+07	1.60	y	42:11	1.35	10300				103	4.13e+06	2.54e+06	
PCB-151	*	*	n	NotFnd	0.85	*	556	420	4.99				
PCB-135	*	*	n	NotFnd	0.82	*	556	420	5.15				
PCB-144	*	*	n	NotFnd	0.93	*	556	420	4.55				
PCB-147	*	*	n	NotFnd	0.92	*	556	420	4.59				
PCB-139	*	*	n	NotFnd	0.98	*	556	420	4.34		Co-elute PCB 149		
PCB-149	*	*	n	NotFnd	0.98	*	556	420	4.34		Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	0.95	*	556	420	4.44				
PCB-143	*	*	n	NotFnd	0.90	*	556	420	4.72		Co-elute PCB 134		
PCB-134	*	*	n	NotFnd	0.90	*	556	420	4.72		Co-elute PCB 143		
PCB-131	*	*	n	NotFnd	0.90	*	556	420	4.68		Co-elute PCB 133		
PCB-133	*	*	n	NotFnd	0.90	*	556	420	4.68		Co-elute PCB 131		
PCB-142	*	*	n	NotFnd	0.77	*	556	420	5.49				
PCB-165	*	*	n	NotFnd	1.05	*	556	420	4.03		Co-elute PCB 146		
PCB-146	*	*	n	NotFnd	1.05	*	556	420	4.03		Co-elute PCB 165		
PCB-161	*	*	n	NotFnd	1.00	*	556	420	4.25		Co-elute PCB 132		
PCB-132	*	*	n	NotFnd	1.00	*	556	420	4.25		Co-elute PCB 161		
PCB-153	*	*	n	NotFnd	1.01	*	556	420	4.19				
PCB-168	*	*	n	NotFnd	1.15	*	556	420	3.67				
PCB-141	*	*	n	NotFnd	0.89	*	556	420	4.76				
PCB-137	*	*	n	NotFnd	0.90	*	556	420	4.69				
PCB-130	*	*	n	NotFnd	0.76	*	556	420	5.58				
PCB-138	*	*	n	NotFnd	1.17	*	556	420	3.61		Co-elute PCB 163/164		
PCB-163	*	*	n	NotFnd	1.17	*	556	420	3.61		Co-elute PCB 138/164		
PCB-164	*	*	n	NotFnd	1.17	*	556	420	3.61		Co-elute PCB 138/163		
PCB-158	*	*	n	NotFnd	1.18	*	556	420	3.59		Co-elute PCB 160		
PCB-160	*	*	n	NotFnd	1.18	*	556	420	3.59		Co-elute PCB 158		
PCB-129	*	*	n	NotFnd	0.77	*	556	420	5.51				
PCB-166	*	*	n	NotFnd	1.08	*	556	420	3.92				
PCB-159	*	*	n	NotFnd	1.19	*	556	420	3.55				
PCB-128	*	*	n	NotFnd	0.98	*	556	420	4.32		Co-elute PCB 162		
PCB-162	*	*	n	NotFnd	0.98	*	556	420	4.32		Co-elute PCB 128		
PCB-167	*	*	n	NotFnd	1.05	*	556	420	3.98				
13C-PCB-167	3.02e+07	1.28	y	43:32	1.12	9820				98.2	3.24e+06	2.57e+06	
PCB-156	*	*	n	NotFnd	1.11	*	556	420	4.13				
13C-PCB-156	2.87e+07	1.31	y	44:46	1.07	9720				97.2	3.04e+06	2.30e+06	
PCB-157	*	*	n	NotFnd	1.14	*	556	420	3.64				
13C-PCB-157	2.92e+07	1.28	y	45:01	1.12	9520				95.2	3.36e+06	2.52e+06	
PCB-169	*	*	n	NotFnd	1.07	*	556	420	3.75				
13C-PCB-169	2.89e+07	1.29	y	46:53	1.08	9730				97.3	3.48e+06	2.62e+06	

PCB-188	*	*	n	NotFnd	1.21	*	320	228	2.55			
13C-PCB-188	2.05e+07	1.12	y	39:46	0.80	9340				93.4	2.34e+06	2.10e+06
PCB-184	*	*	n	NotFnd	1.25	*	320	228	2.35			
PCB-179	*	*	n	NotFnd	1.15	*	320	228	2.54			
PCB-176	*	*	n	NotFnd	1.14	*	320	228	2.57			
PCB-186	*	*	n	NotFnd	1.19	*	320	228	2.46			
PCB-178	*	*	n	NotFnd	0.83	*	320	228	3.55			
PCB-175	*	*	n	NotFnd	0.88	*	320	228	3.31			
PCB-187	*	*	n	NotFnd	0.99	*	320	228	2.96		Co-elute PCB 182	
PCB-182	*	*	n	NotFnd	0.99	*	320	228	2.96		Co-elute PCB 187	
PCB-183	*	*	n	NotFnd	0.93	*	320	228	3.14			
PCB-185	*	*	n	NotFnd	0.88	*	320	228	3.31			
PCB-174	*	*	n	NotFnd	0.89	*	320	228	3.29			
PCB-181	*	*	n	NotFnd	0.90	*	320	228	3.24			
PCB-177	*	*	n	NotFnd	0.79	*	320	228	3.70			
PCB-171	*	*	n	NotFnd	0.85	*	320	228	3.43			
PCB-173	*	*	n	NotFnd	0.80	*	320	228	3.65			
PCB-172	*	*	n	NotFnd	0.80	*	320	228	3.68			
PCB-192	*	*	n	NotFnd	1.11	*	320	228	2.64			
PCB-180	*	*	n	NotFnd	1.09	*	320	228	2.68			
PCB-193	*	*	n	NotFnd	1.16	*	320	228	2.52			
PCB-191	*	*	n	NotFnd	1.08	*	320	228	2.71			
PCB-170	*	*	n	NotFnd	0.77	*	320	228	3.78			
PCB-190	*	*	n	NotFnd	1.09	*	320	228	2.69			
PCB-189	*	*	n	NotFnd	1.17	*	320	228	2.37			
13C-PCB-189	1.85e+07	1.08	y	48:31	0.73	9270				92.7	2.58e+06	2.38e+06
PCB-202	*	*	n	NotFnd	1.03	*	176	196	3.85			
PCB-201	*	*	n	NotFnd	1.02	*	176	196	3.89			
PCB-204	*	*	n	NotFnd	1.00	*	176	196	3.98			
PCB-197	*	*	n	NotFnd	1.08	*	176	196	3.68			
PCB-200	*	*	n	NotFnd	1.01	*	176	196	3.96			
PCB-198	*	*	n	NotFnd	0.74	*	176	196	5.36			
PCB-199	*	*	n	NotFnd	0.84	*	176	196	4.77			
PCB-203	*	*	n	NotFnd	0.87	*	176	196	4.60		Co-elute PCB 196	
PCB-196	*	*	n	NotFnd	0.87	*	176	196	4.60		Co-elute PCB 203	
13C-PCB-202	1.16e+07	0.89	y	44:54	0.44	9690				96.9	1.09e+06	1.24e+06
13C-PCB-178	1.42e+07	1.12	y	42:26	0.60	8560				85.6	1.55e+06	1.35e+06
13C-PCB-138	2.75e+07	1.30	y	41:40	-	56.7						
PCB-195	*	*	n	NotFnd	0.71	*	272	824	3.46			
PCB-194	*	*	n	NotFnd	0.79	*	272	824	3.08			
PCB-205	*	*	n	NotFnd	1.07	*	272	824	2.28			
13C-PCB-205	3.78e+07	0.90	y	50:09	1.23	10100				101	5.40e+06	5.82e+06
PCB-208	*	*	n	NotFnd	1.01	*	456	600	2.81			
13C-PCB-208	2.84e+07	0.81	y	49:12	0.97	9660				96.6	4.07e+06	5.22e+06
PCB-207	*	*	n	NotFnd	0.98	*	456	600	3.38			
PCB-206	*	*	n	NotFnd	1.00	*	456	600	3.81			
13C-PCB-206	2.47e+07	0.81	y	51:21	0.88	9280				92.8	3.09e+06	3.84e+06
PCB-209	*	*	n	NotFnd	1.12	*	344	280	1.86			
13C-PCB-209	2.72e+07	1.21	y	52:32	0.97	9290				92.9	4.17e+06	3.35e+06
13C-PCB-194	3.03e+07	0.93	y	49:54	-	55.8						

Analyst: _____ Date: 8/20/18

File:25JUL18Z #1-783 Acq:25-JUL-2018 10:18:22 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:04579-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-783 Acq:25-JUL-2018 10:18:22 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
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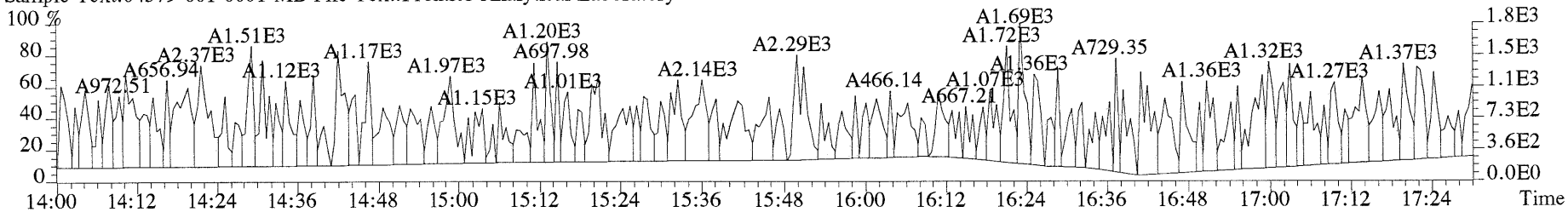

File:25JUL18Z #1-783 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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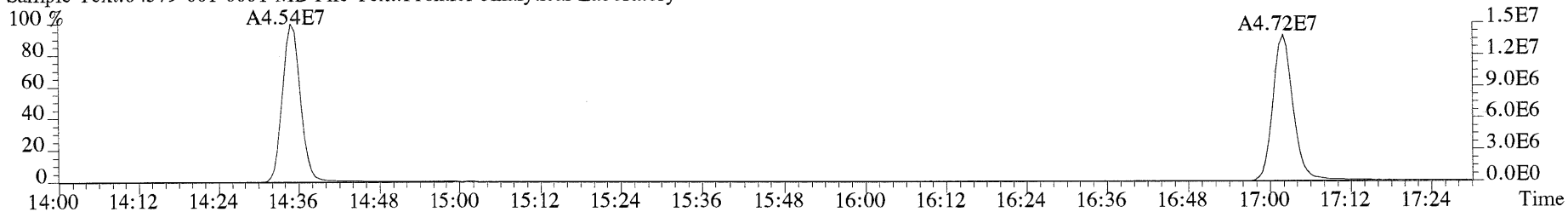

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202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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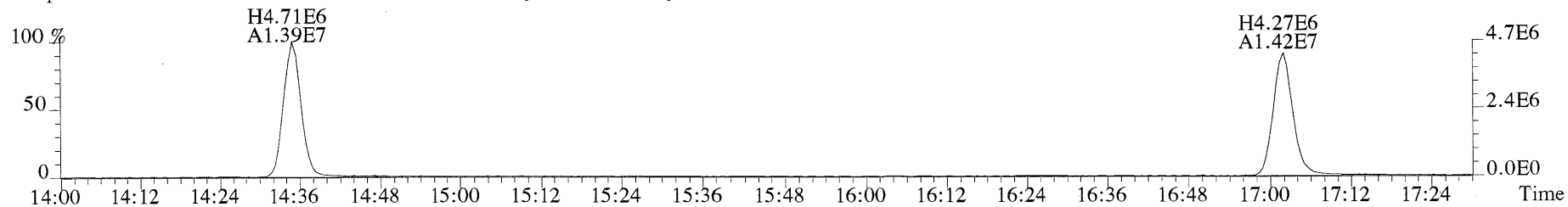
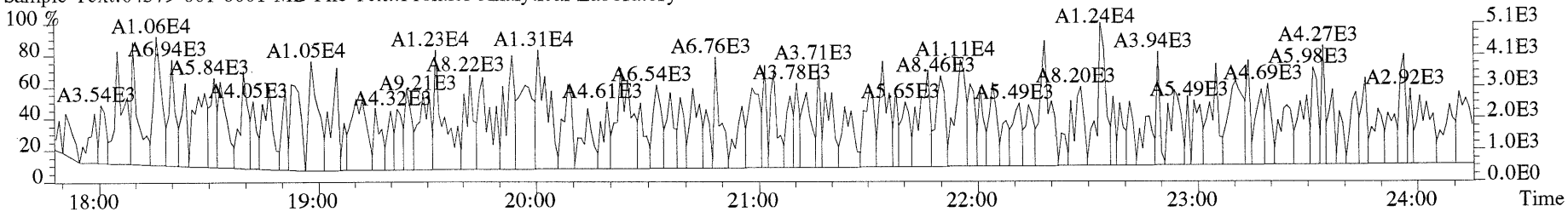


File:25JUL18Z #1-520 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-520 Acq:25-JUL-2018 10:18:22 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
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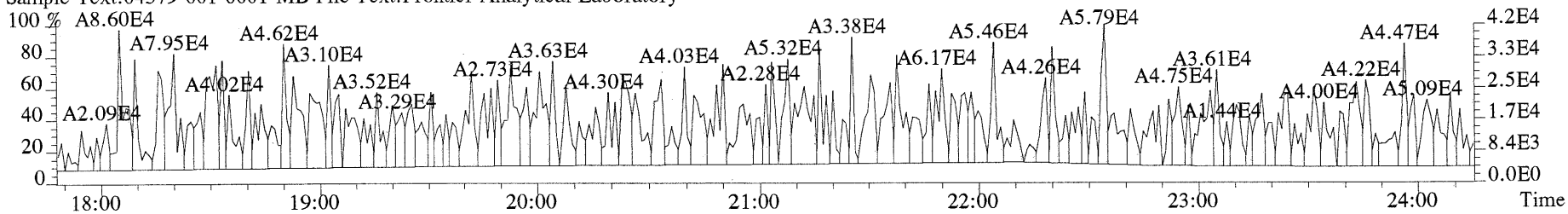
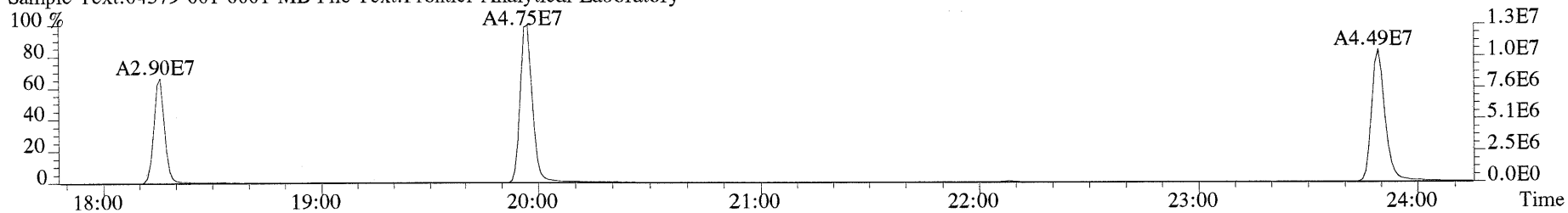


File:25JUL18Z #1-520 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-520 Acq:25-JUL-2018 10:18:22 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
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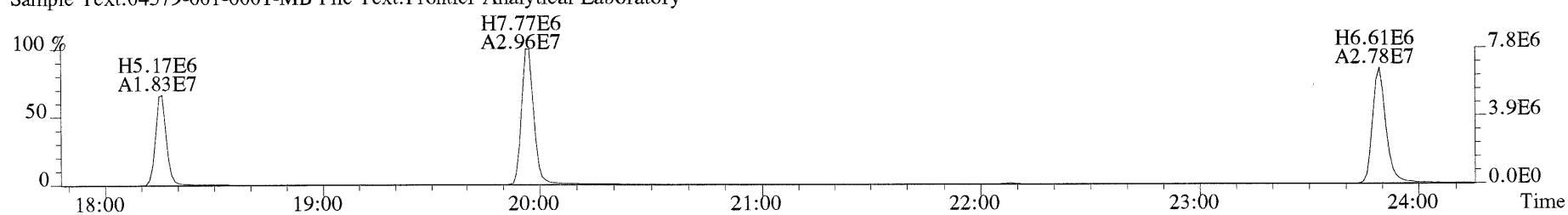
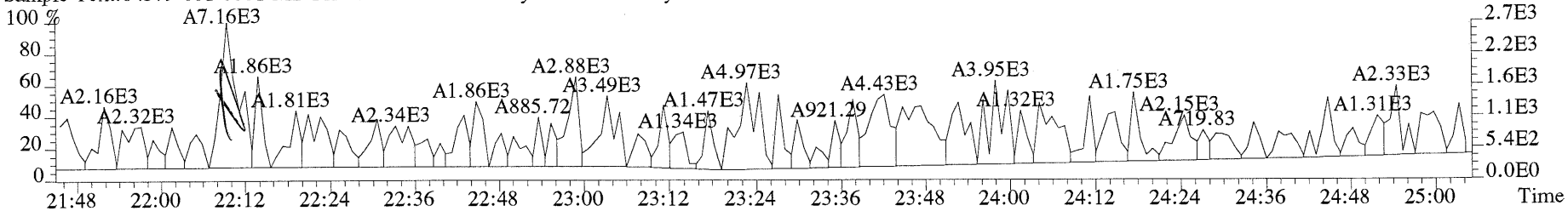
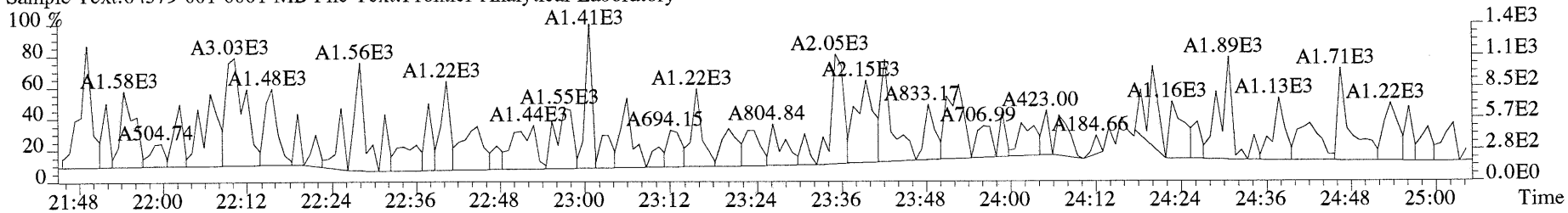


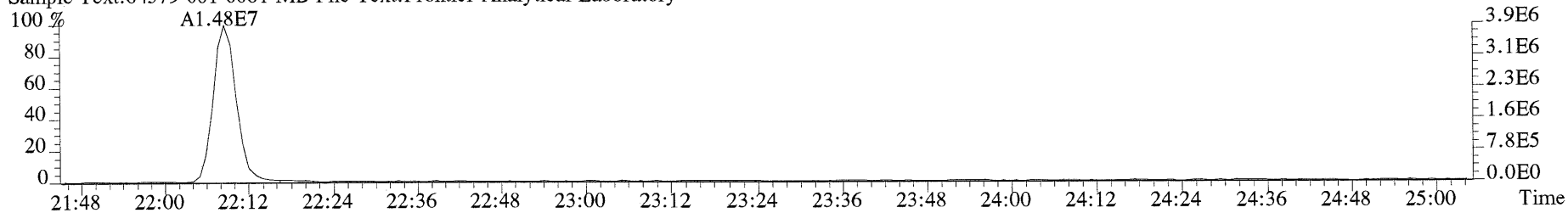
File:25JUL18Z #1-520 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



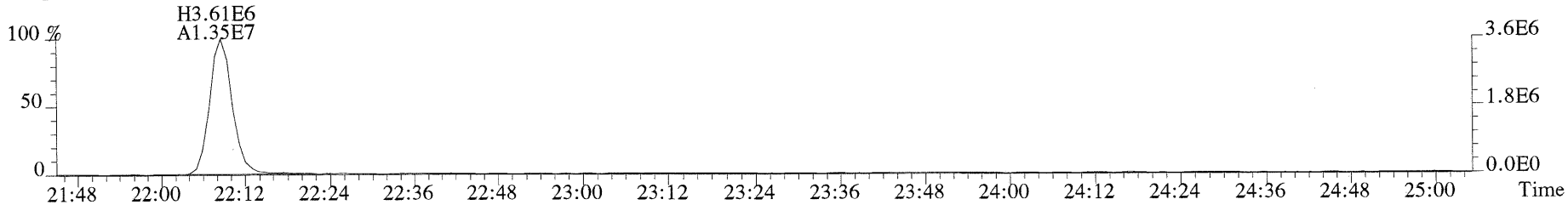
File:25JUL18Z #1-520 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



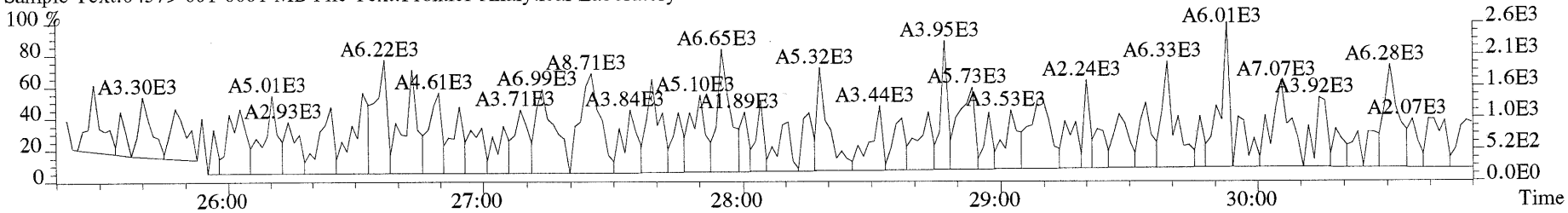
File:25JUL18Z #1-520 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



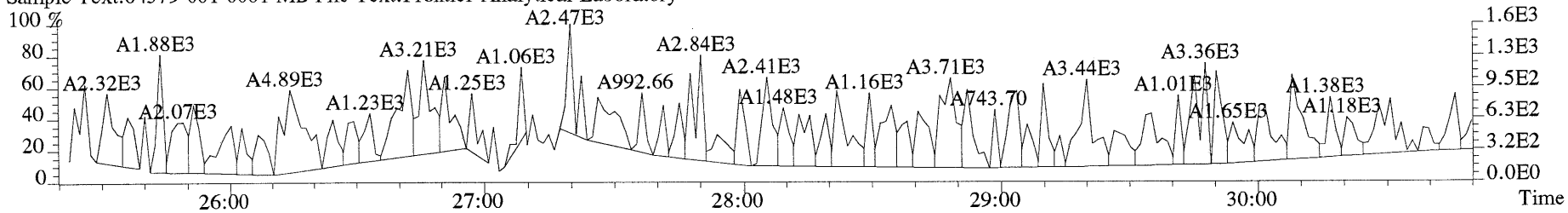
File:25JUL18Z #1-520 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-402 Acq:25-JUL-2018 10:18:22 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:04579-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-402 Acq:25-JUL-2018 10:18:22 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:04579-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-402 Acq:25-JUL-2018 10:18:22 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
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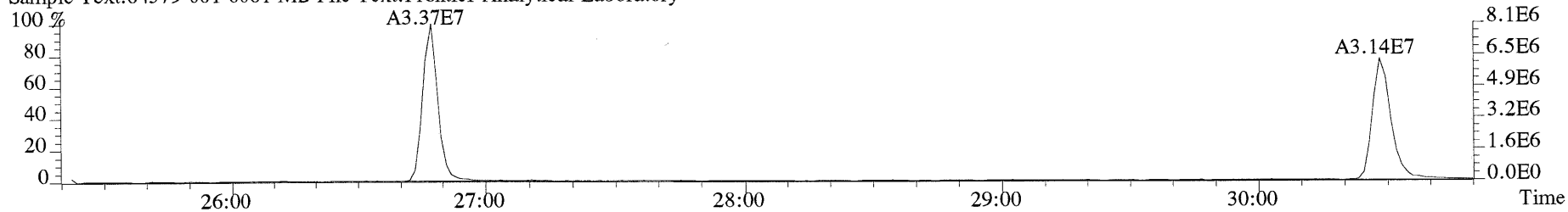
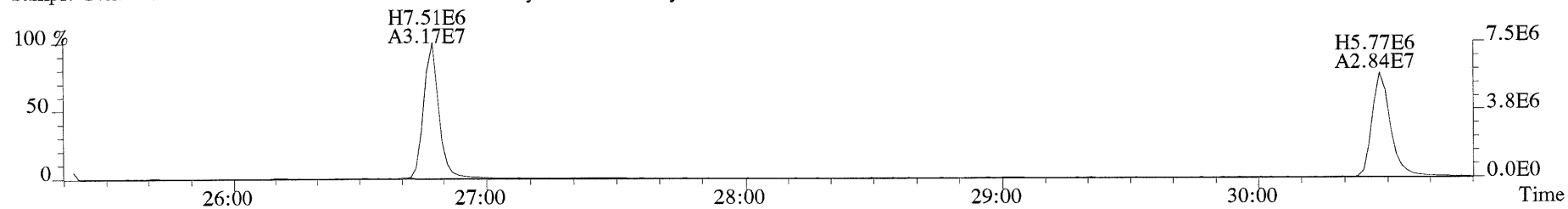


File:25JUL18Z #1-402 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-402 Acq:25-JUL-2018 10:18:22 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
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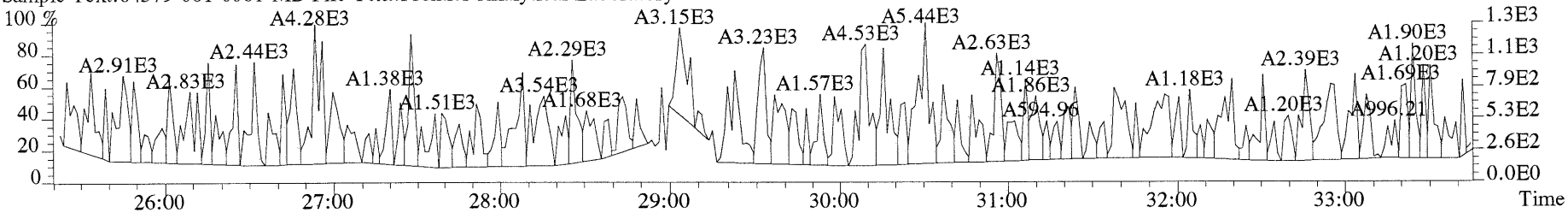

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291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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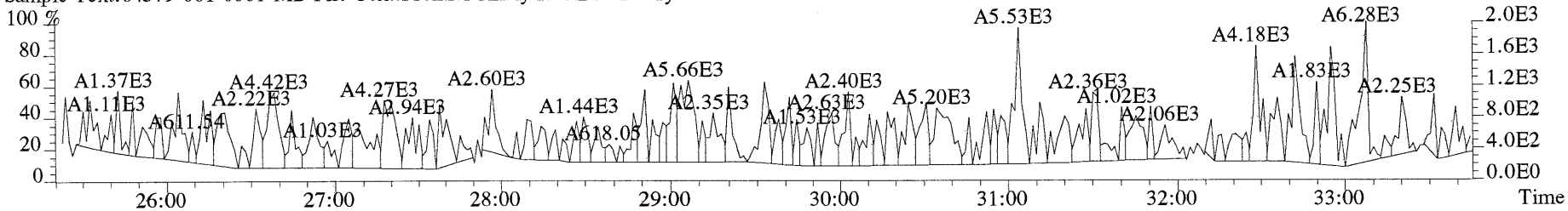

File:25JUL18Z #1-402 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
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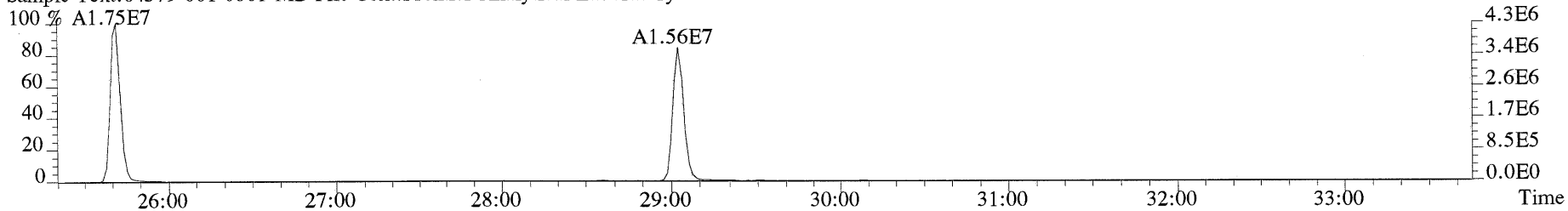

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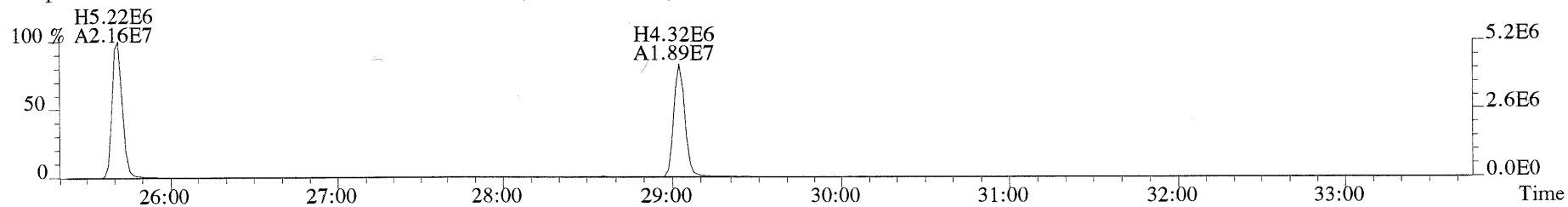

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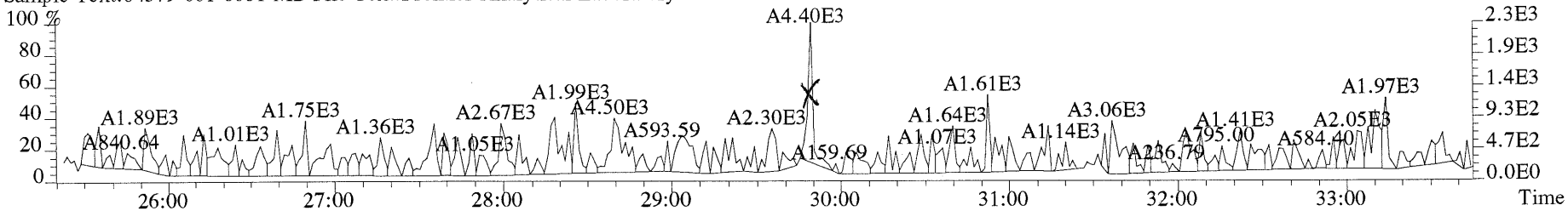
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



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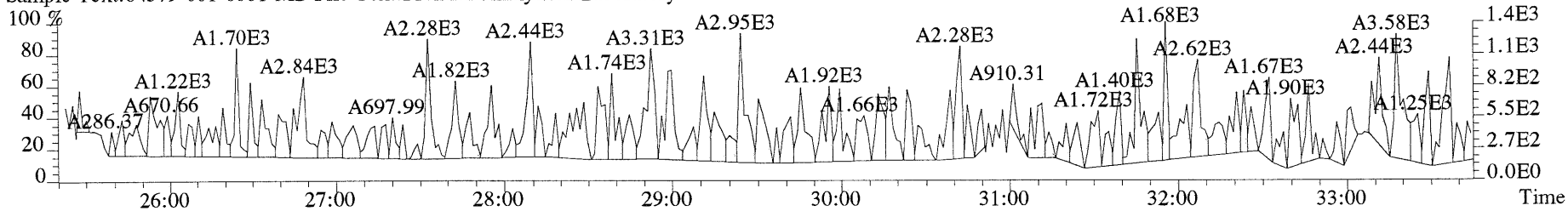

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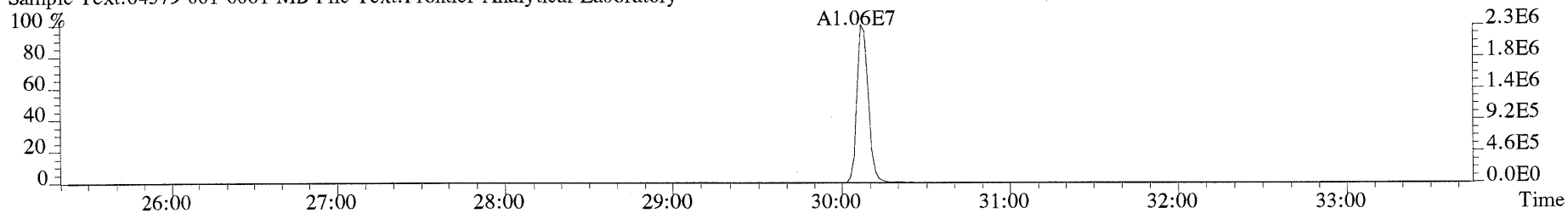

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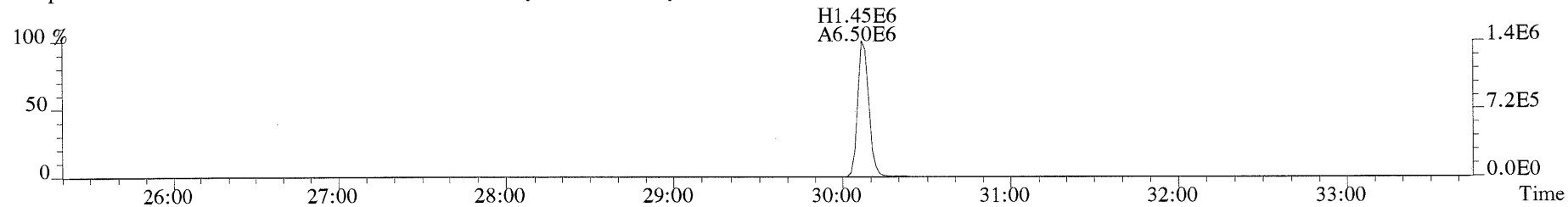

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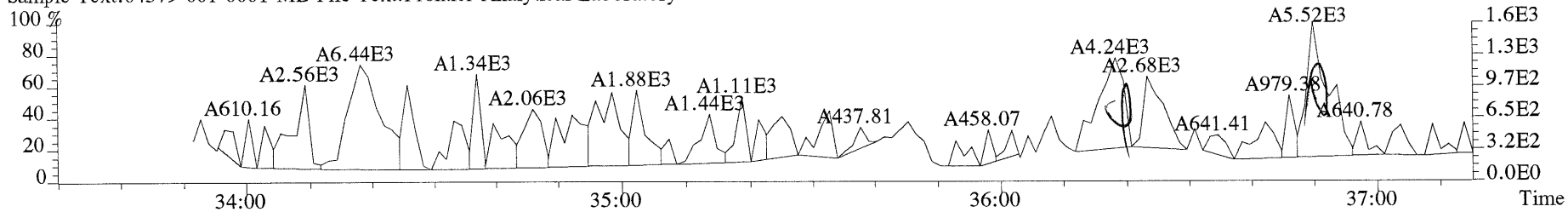

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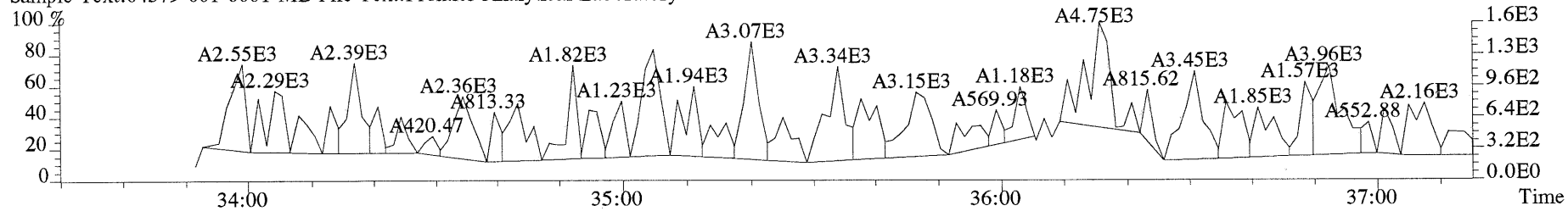

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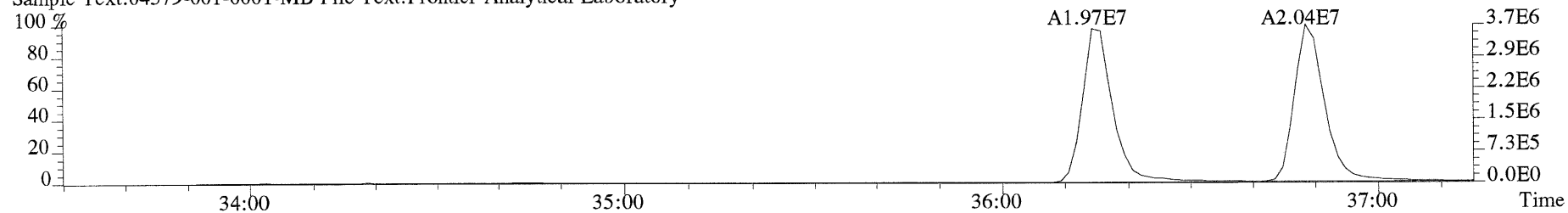
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



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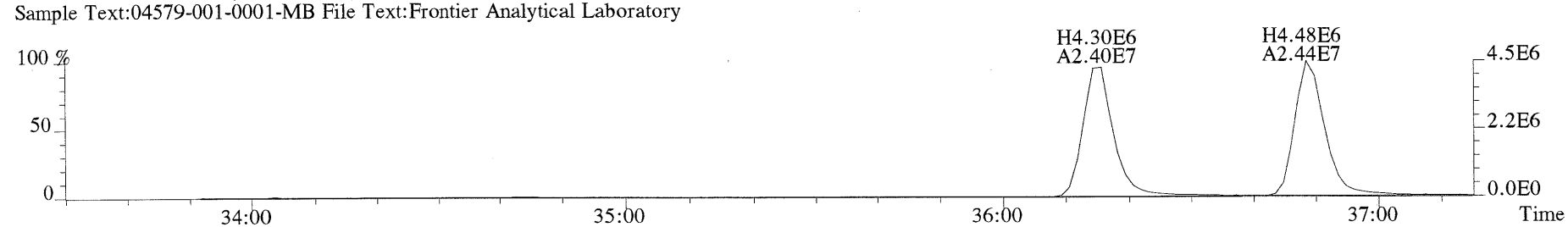

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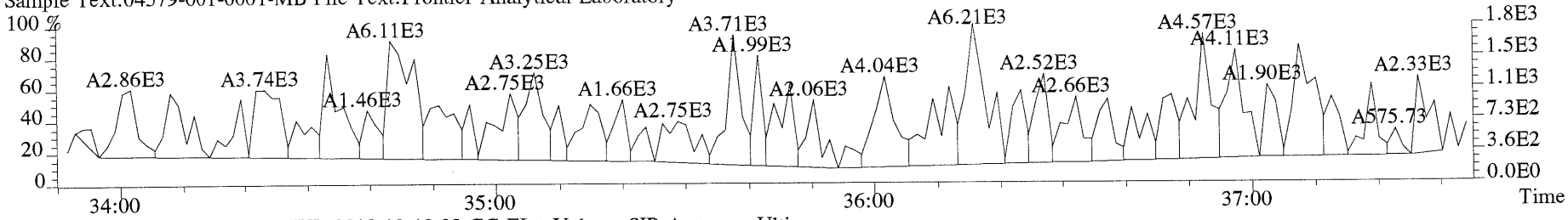
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



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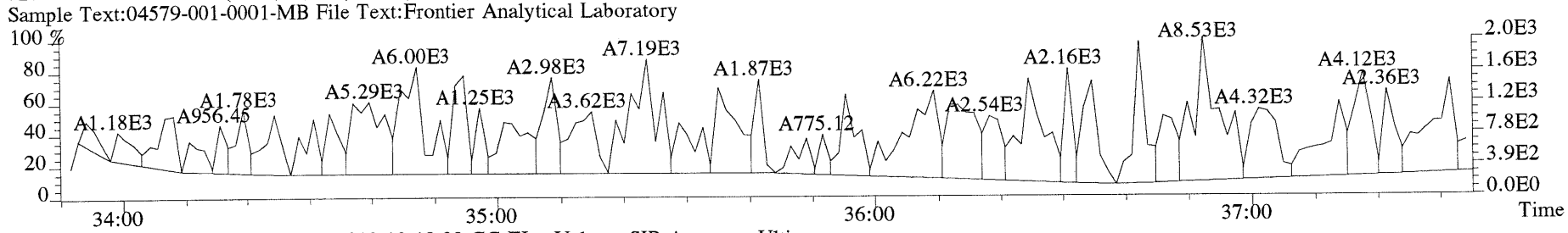
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



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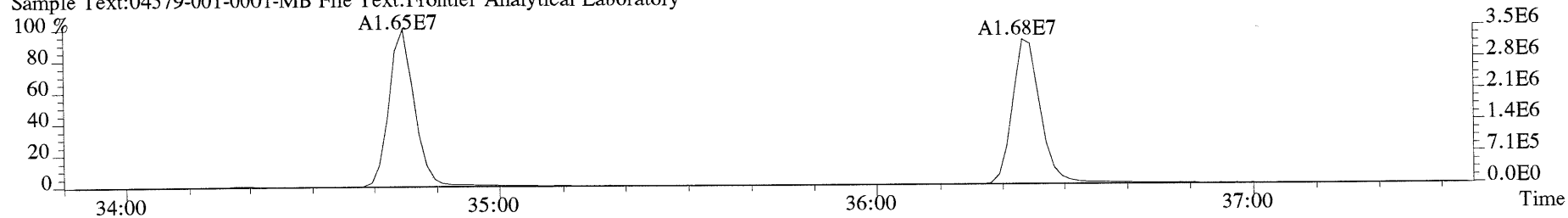

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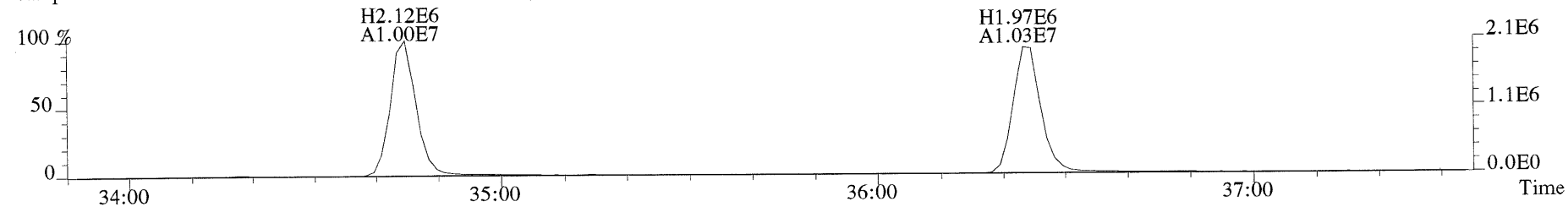
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



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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
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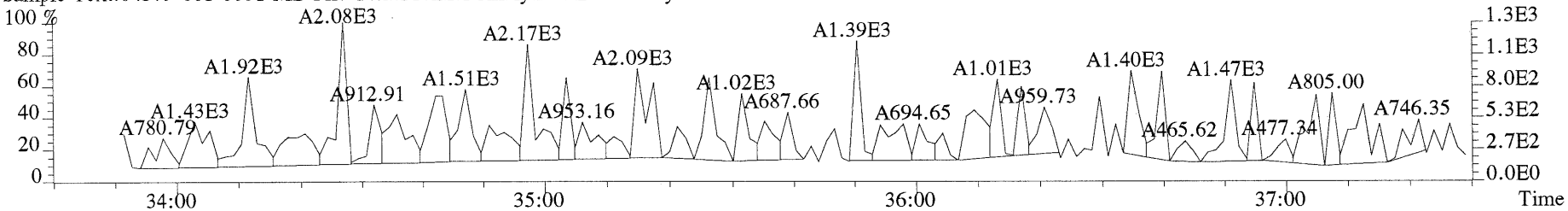
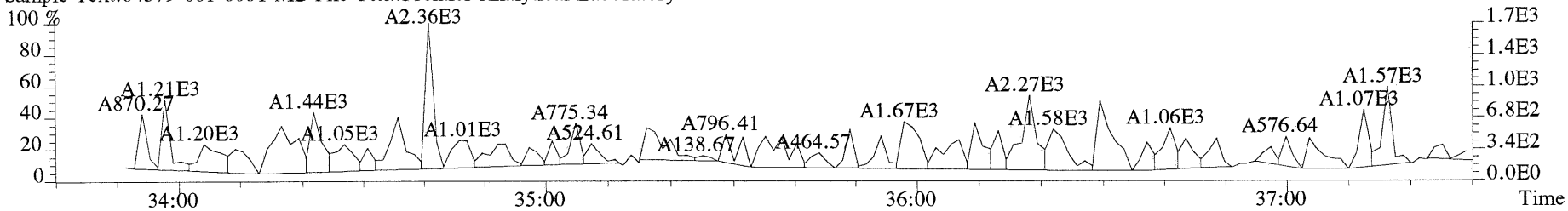


File:25JUL18Z #1-182 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



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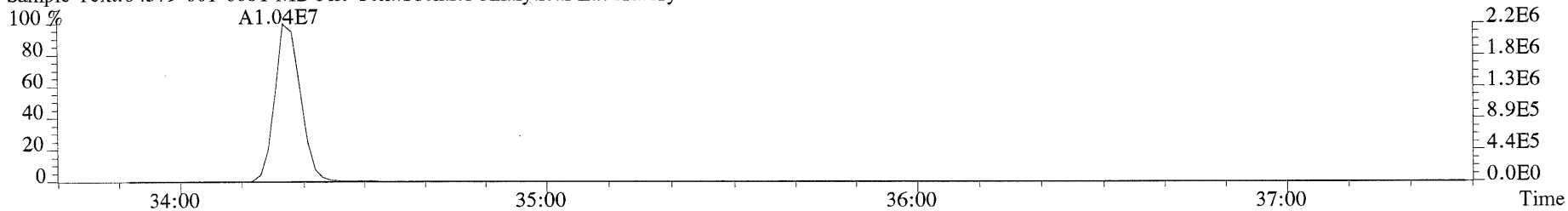
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



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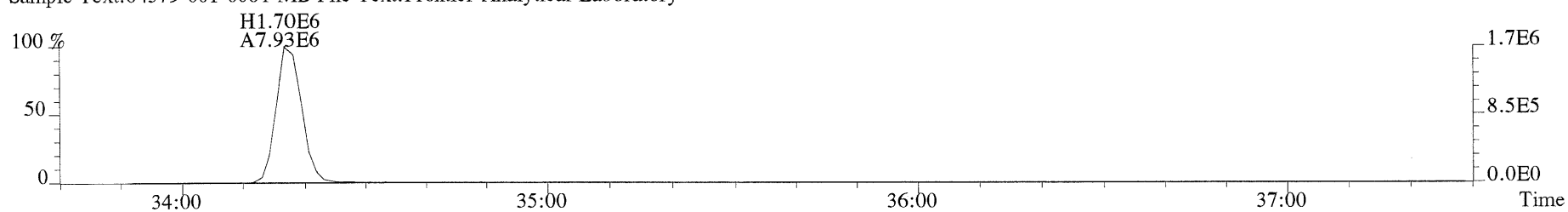
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



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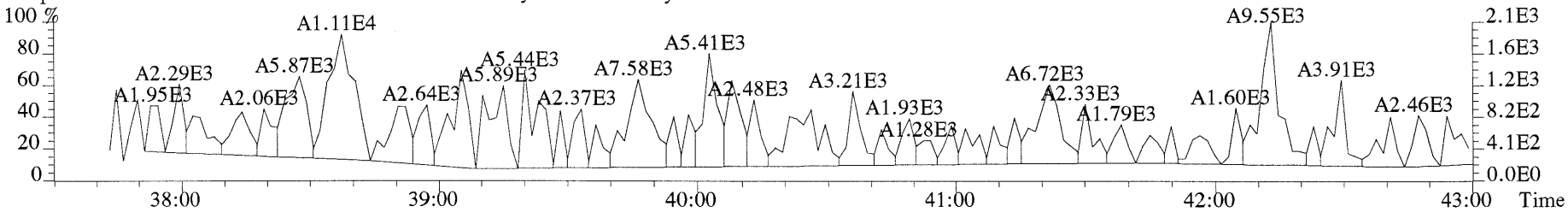
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



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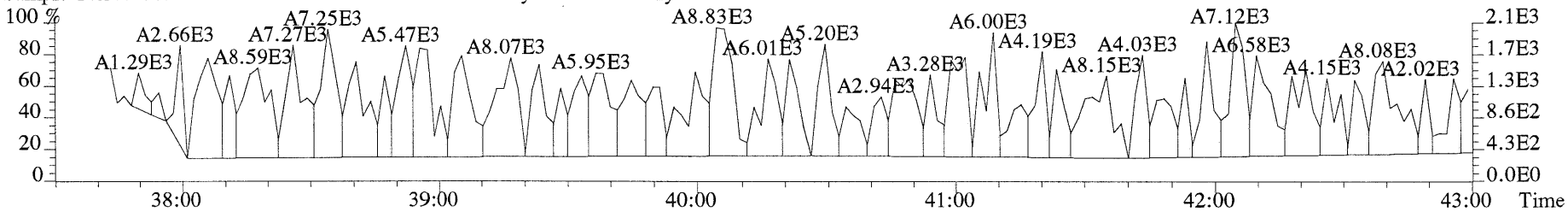

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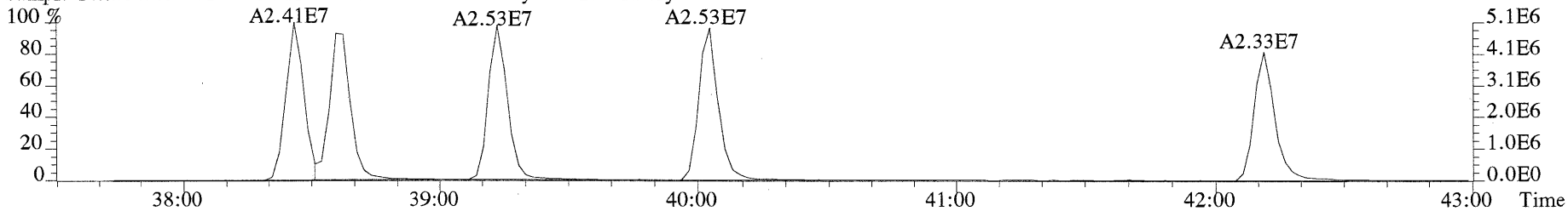

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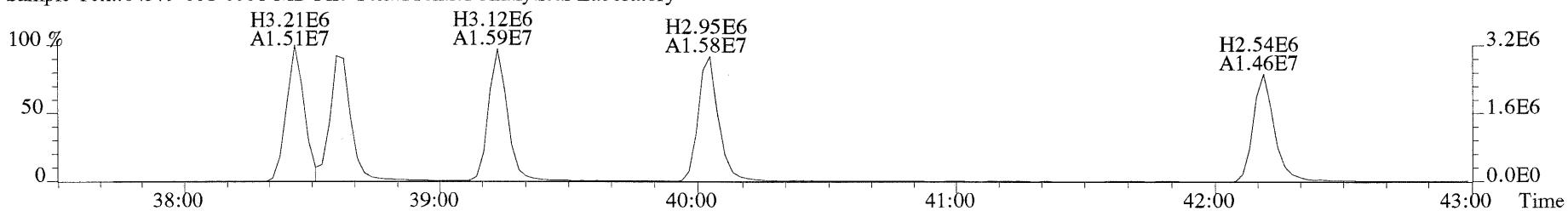

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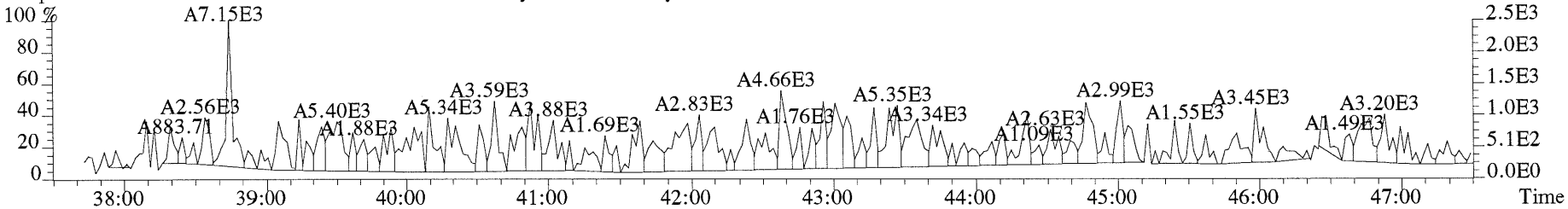

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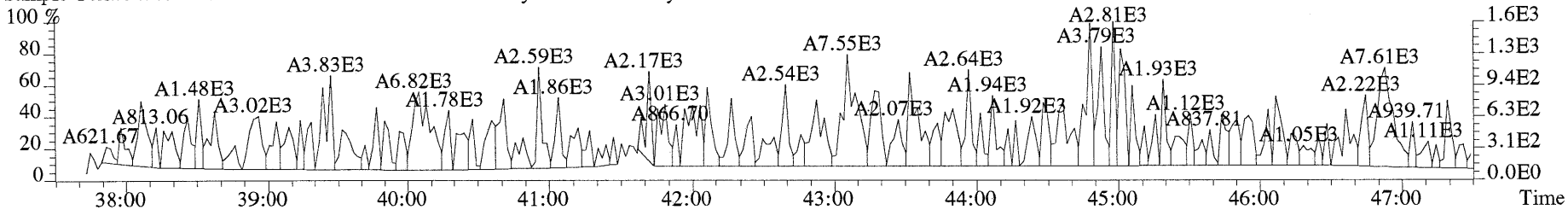

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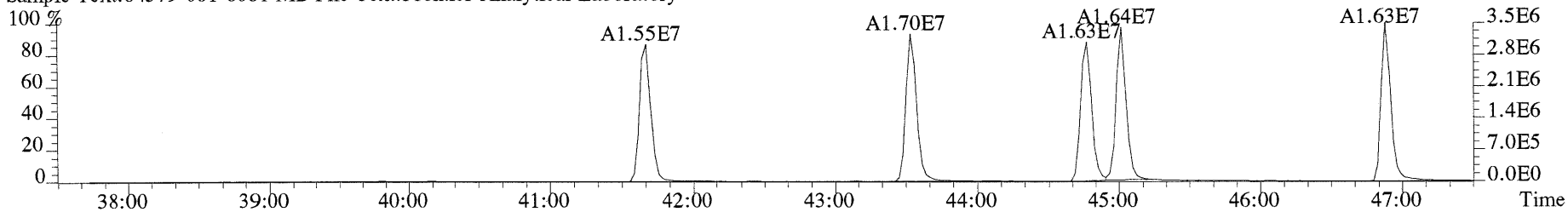
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



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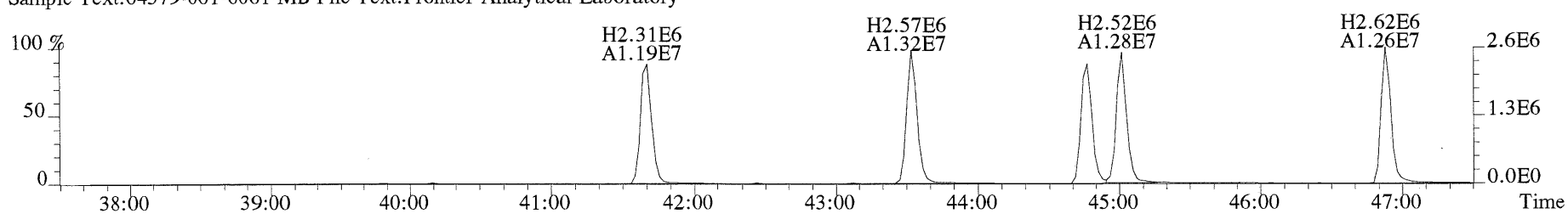
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



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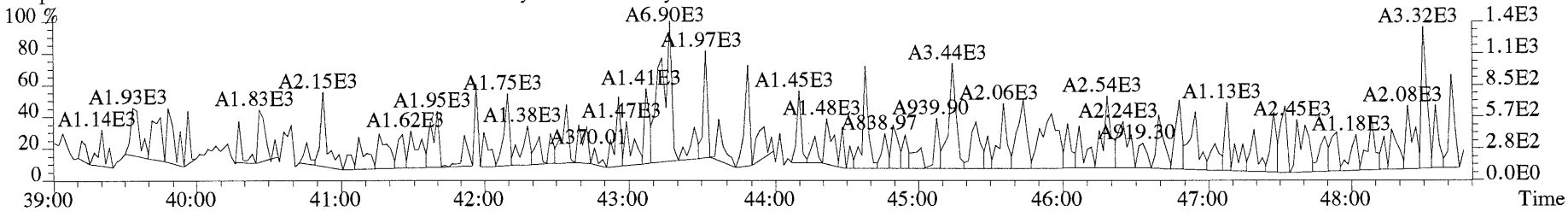

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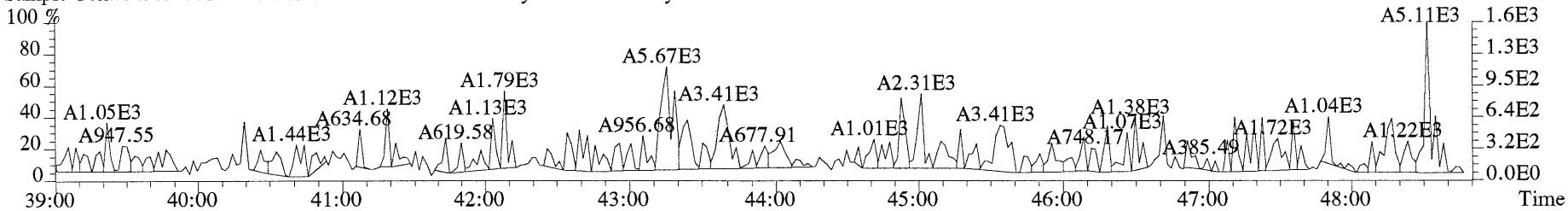

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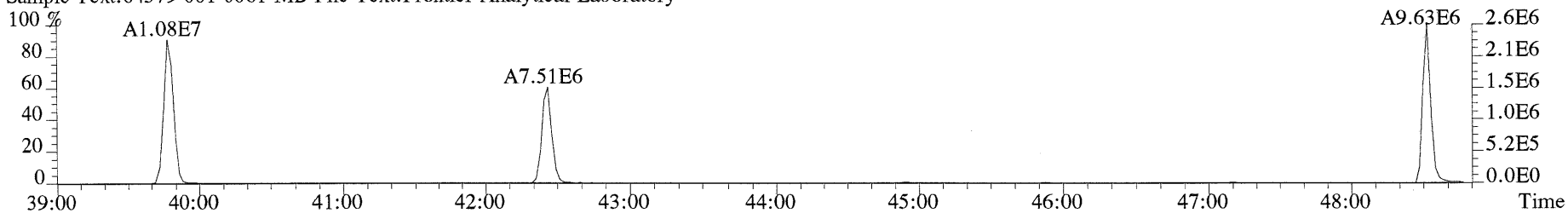
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



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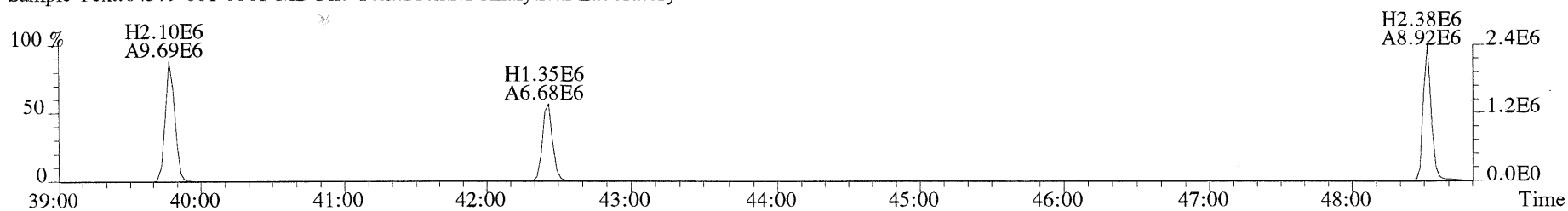

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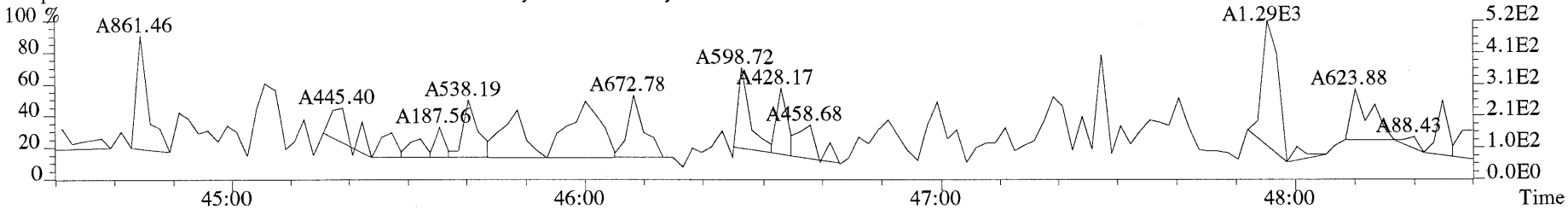
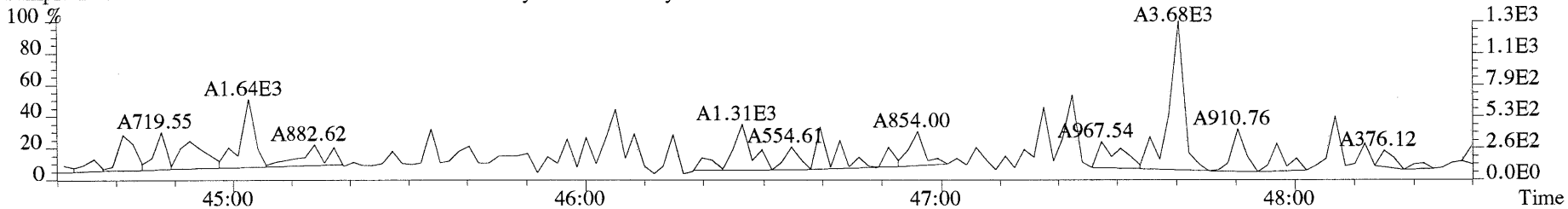
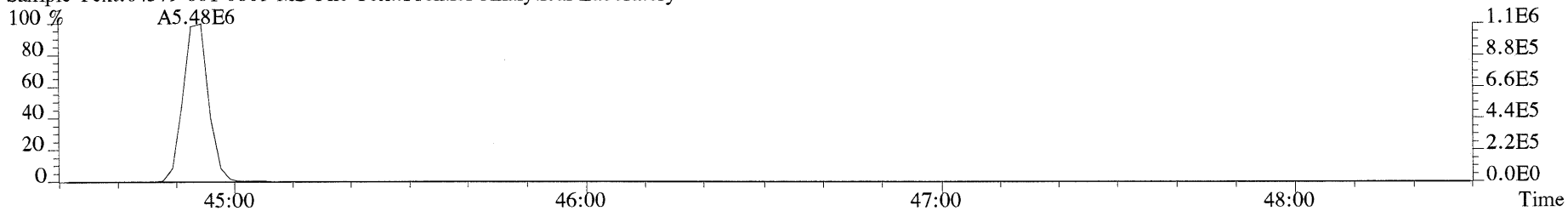


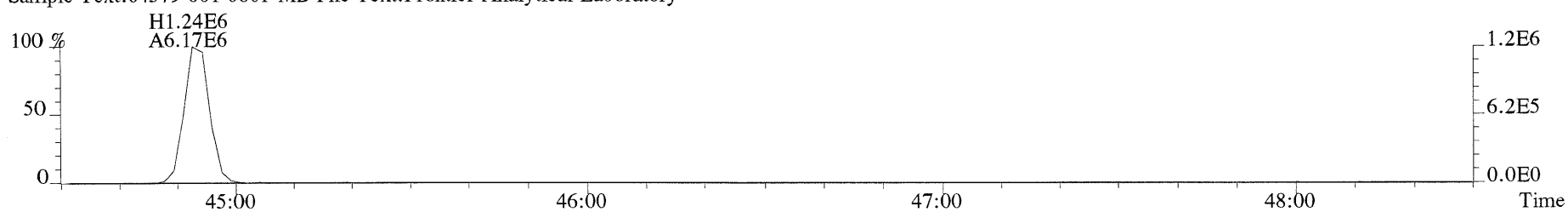
File:25JUL18Z #1-404 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



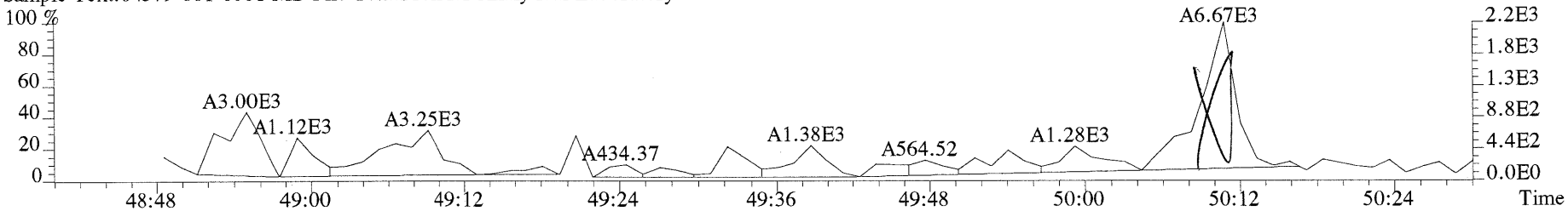
File:25JUL18Z #1-404 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



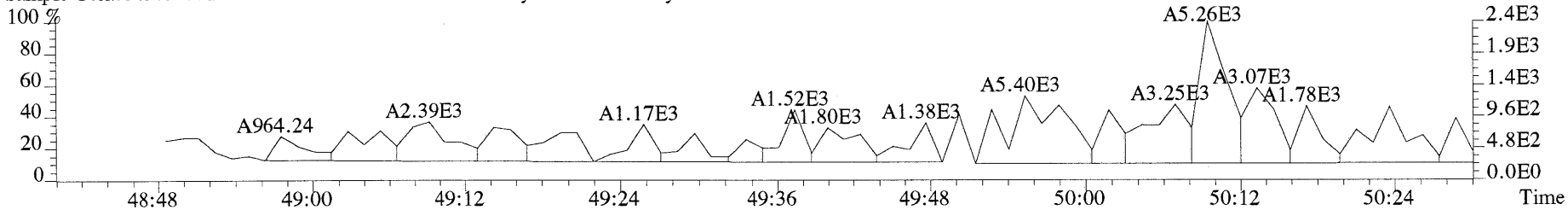
File:25JUL18Z #1-404 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



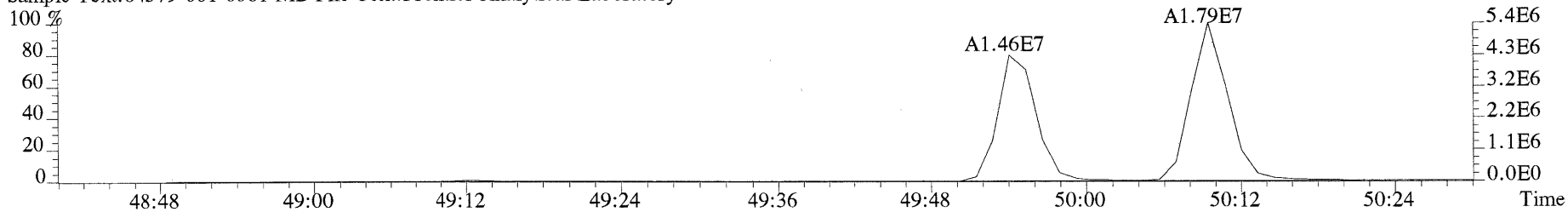
File:25JUL18Z #1-314 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



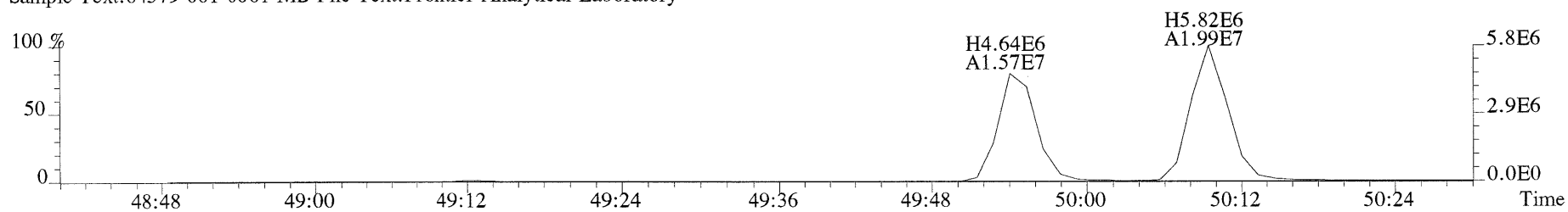
File:25JUL18Z #1-314 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



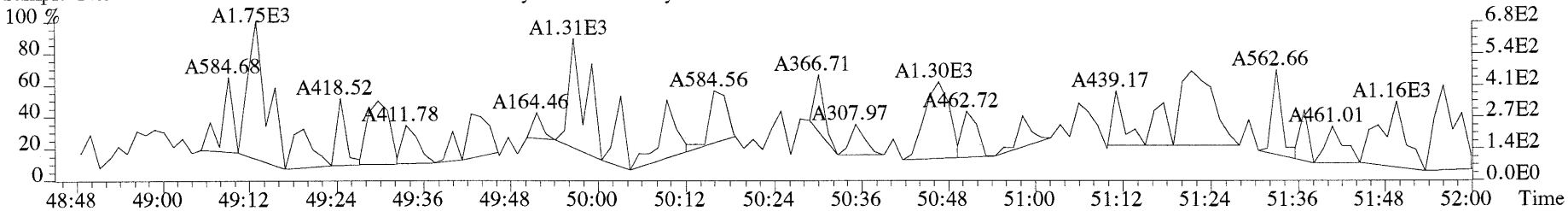
File:25JUL18Z #1-314 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



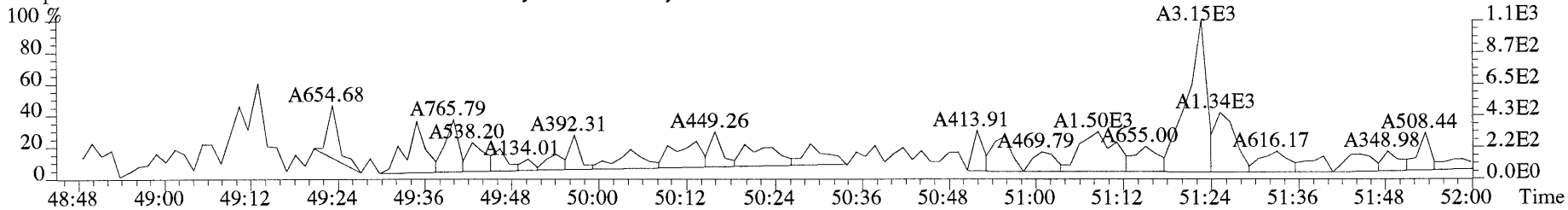
File:25JUL18Z #1-314 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



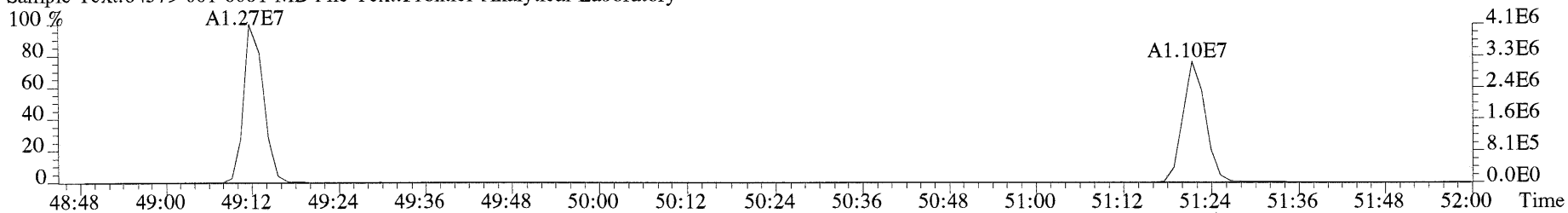
File:25JUL18Z #1-314 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



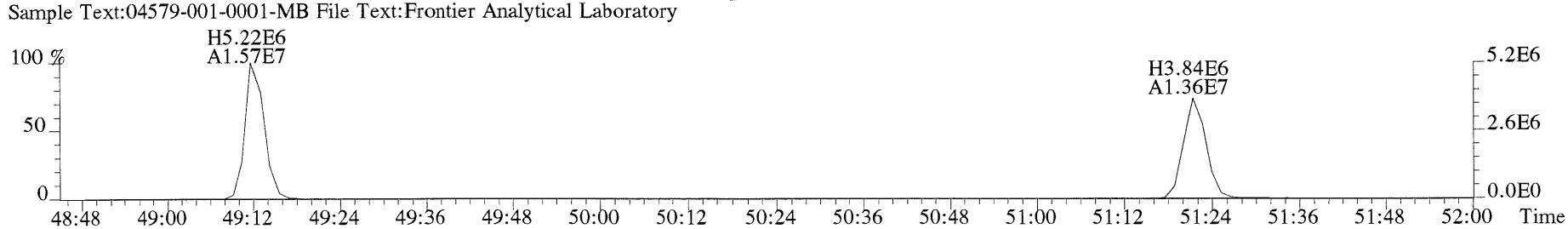
File:25JUL18Z #1-314 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



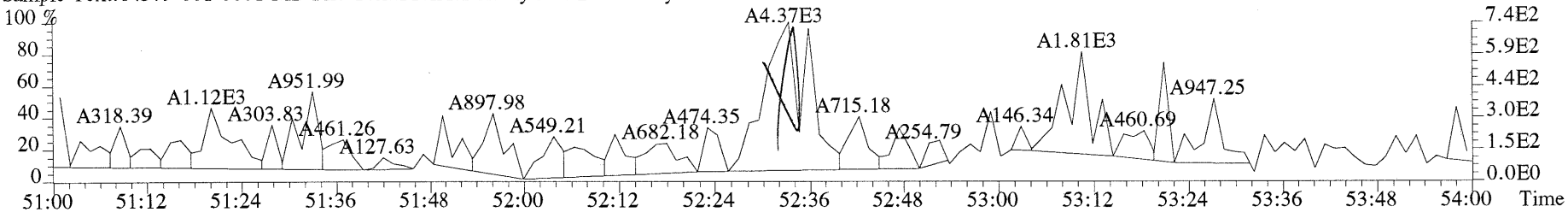
File:25JUL18Z #1-314 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



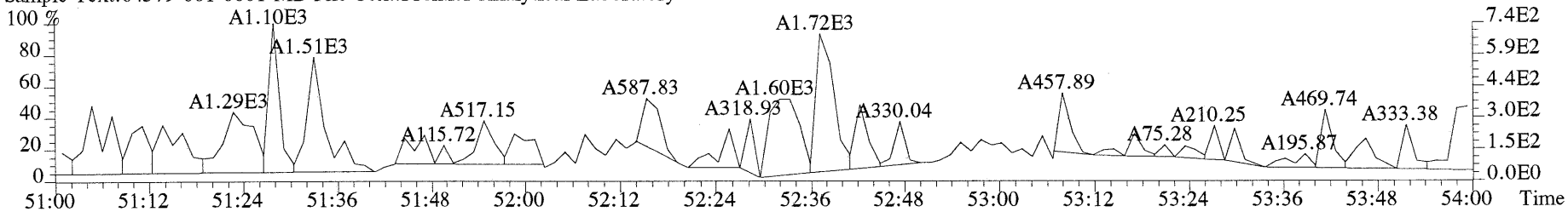
File:25JUL18Z #1-314 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



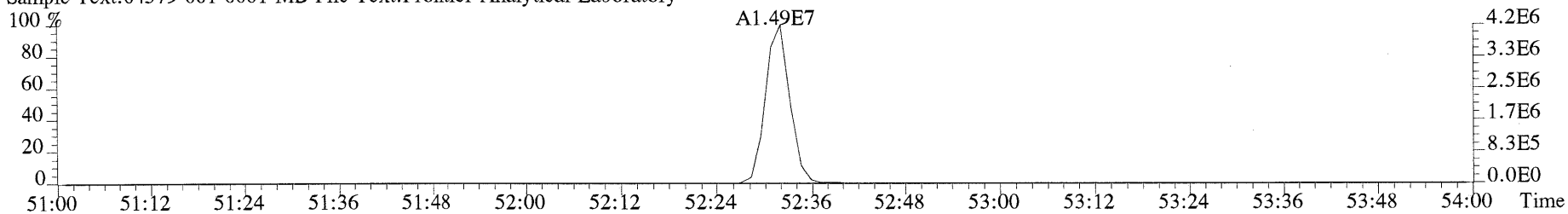
File:25JUL18Z #1-314 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



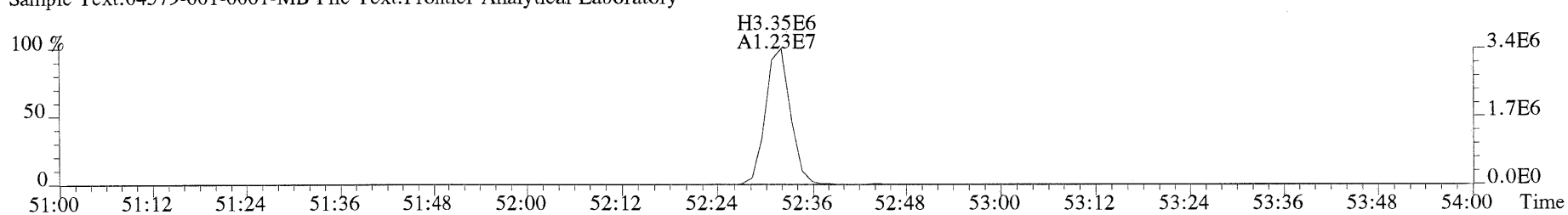
File:25JUL18Z #1-314 Acq:25-JUL-2018 10:18:22 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 10:18:22 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:04579-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 10:18:22 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:04579-001-0001-MB File Text:Frontier Analytical Laboratory



4579-001-0001-OPR

Frontier Analytical Laboratory

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

Lab Name: Frontier Analytical Laboratory

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 25JUL18Z Sam:3

Ext. Date: 7/16/18 Shift: Day Analysis Date: 25-JUL-18 09:20:01

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	58.2	30.0 - 67.5
PCB-3	50	58.6	30.0 - 67.5
PCB-4	50	54.4	30.0 - 67.5
PCB-15	50	59.3	30.0 - 67.5
PCB-19	50	56.9	30.0 - 67.5
PCB-37	50	56.0	30.0 - 67.5
PCB-54	50	59.5	30.0 - 67.5
PCB-77	50	60.9	30.0 - 67.5
PCB-81	50	62.0	30.0 - 67.5
PCB-104	50	59.8	30.0 - 67.5
PCB-105	50	56.9	30.0 - 67.5
PCB-114	50	59.3	30.0 - 67.5
PCB-118	50	62.2	30.0 - 67.5
PCB-123	50	52.4	30.0 - 67.5
PCB-126	50	55.9	30.0 - 67.5
PCB-155	50	59.9	30.0 - 67.5
PCB-156	50	61.1	30.0 - 67.5
PCB-157	50	57.4	30.0 - 67.5
PCB-167	50	63.0	30.0 - 67.5
PCB-169	50	62.5	30.0 - 67.5
PCB-188	50	60.0	30.0 - 67.5
PCB-189	50	61.0	30.0 - 67.5
PCB-202	50	63.9	30.0 - 67.5
PCB-205	50	60.4	30.0 - 67.5
PCB-206	50	61.6	30.0 - 67.5
PCB-208	50	59.5	30.0 - 67.5
PCB-209	50	61.1	30.0 - 67.5

Analyst: [signature] Date: 7/20/18

Frontier Analytical Laboratory

FORM 8B

209 PCB ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 25JUL18Z Sam:3

Ext. Date: 7/16/18 Shift: Day Analysis Date: 25-JUL-18 09:20:01

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	97.3	15.0 - 145
13C-PCB-3	100	98.2	15.0 - 145
13C-PCB-4	100	99.0	15.0 - 145
13C-PCB-15	100	102	15.0 - 145
13C-PCB-19	100	100	15.0 - 145
13C-PCB-37	100	102	15.0 - 145
13C-PCB-54	100	104	15.0 - 145
13C-PCB-77	100	106	40.0 - 145
13C-PCB-81	100	106	40.0 - 145
13C-PCB-104	100	100	40.0 - 145
13C-PCB-105	100	101	40.0 - 145
13C-PCB-114	100	104	40.0 - 145
13C-PCB-118	100	105	40.0 - 145
13C-PCB-123	100	102	40.0 - 145
13C-PCB-126	100	104	40.0 - 145
13C-PCB-155	100	108	40.0 - 145
13C-PCB-156	100	100	40.0 - 145
13C-PCB-157	100	100	40.0 - 145
13C-PCB-167	100	99.7	40.0 - 145
13C-PCB-169	100	97.2	40.0 - 145
13C-PCB-188	100	100	40.0 - 145
13C-PCB-189	100	95.8	40.0 - 145
13C-PCB-202	100	102	40.0 - 145
13C-PCB-205	100	105	40.0 - 145
13C-PCB-206	100	97.6	40.0 - 145
13C-PCB-208	100	109	40.0 - 145
13C-PCB-209	100	98.0	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	96.7	15.0 - 145
13C-PCB-111	100	93.4	40.0 - 145
13C-PCB-178	100	94.3	40.0 - 145

Analyst: _____ Date: 7/26/18

FAL ID: 04579-001-0001-OPR Filename: 25JUL18Z Sam:3 Acquired: 25-JUL-18 09:20:01 ICal: DAILY209FAL4-7-25-18
Client ID: OPR ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

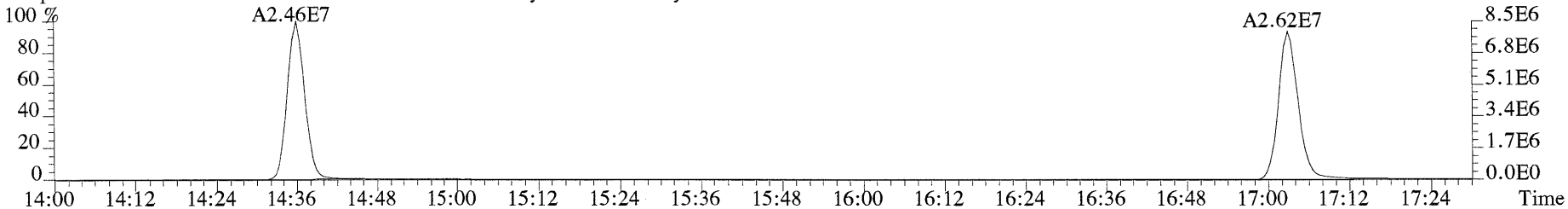
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.24e+07	3.18 y	14:36	1.19	58.2		2.50	-	-	*	
13C-PCB-1	4.69e+07	3.23 y	14:35	0.80	97.3		2.50				97.3
PCB-3	3.43e+07	3.23 y	17:03	1.17	58.6		2.50	-	-	*	
13C-PCB-3	4.99e+07	3.26 y	17:02	0.85	98.2		2.50				98.2
PCB-4	2.57e+07	1.58 y	18:16	1.26	54.4		2.50	-	-	*	
13C-PCB-4	3.76e+07	1.60 y	18:16	0.63	99.0		2.50				99.0
PCB-15	3.87e+07	1.59 y	23:51	1.12	59.3		2.50	-	-	*	
13C-PCB-15	5.82e+07	1.62 y	23:49	0.95	102		2.50				102
PCB-19	1.72e+07	1.06 y	22:10	1.26	56.9		2.50	-	-	*	
13C-PCB-19	2.39e+07	1.12 y	22:09	0.40	100		2.50				100
13C-PCB-9	5.99e+07	1.61 y	19:57	-	52.2		2.50				
PCB-37	3.30e+07	1.07 y	30:30	1.23	56.0		2.50	-	-	*	
13C-PCB-37	4.80e+07	1.09 y	30:29	1.68	102		2.50				102
PCB-54	2.29e+07	0.82 y	25:42	1.19	59.5		2.50	-	-	*	
13C-PCB-54	3.22e+07	0.82 y	25:41	1.11	104		2.50				104
PCB-104	1.14e+07	1.61 y	30:09	1.35	59.8		2.50	-	-	*	
13C-PCB-104	1.41e+07	1.62 y	30:08	0.50	100		2.50				100
13C-PCB-28	5.31e+07	1.09 y	26:48	1.97	96.7		2.50				96.7
13C-PCB-52	2.80e+07	0.81 y	29:03	-	49.8		2.50				
PCB-81	2.50e+07	0.80 y	36:16	1.14	62.0		2.50	-	-	*	
13C-PCB-81	3.53e+07	0.80 y	36:15	1.57	106		2.50				106
PCB-77	2.44e+07	0.78 y	36:51	1.11	60.9		2.50	-	-	*	
13C-PCB-77	3.62e+07	0.81 y	36:49	1.61	106		2.50				106
PCB-155	1.15e+07	1.28 y	34:19	1.24	59.9		2.50	-	-	*	
13C-PCB-155	1.54e+07	1.32 y	34:18	0.67	108		2.50				108
13C-PCB-111	2.30e+07	1.62 y	36:24	1.16	93.4		2.50				93.4
13C-PCB-101	2.13e+07	1.63 y	34:45	-	45.1		2.50				
PCB-123	2.05e+07	1.55 y	38:28	1.23	52.4		2.50	-	-	*	
13C-PCB-123	3.17e+07	1.60 y	38:27	1.40	102		2.50				102
PCB-118	2.30e+07	1.55 y	38:38	1.03	62.2		2.50	-	-	*	
13C-PCB-118	3.58e+07	1.63 y	38:36	1.53	105		2.50				105
PCB-114	2.14e+07	1.54 y	39:16	1.07	59.3		2.50	-	-	*	
13C-PCB-114	3.37e+07	1.62 y	39:14	1.46	104		2.50				104
PCB-105	1.99e+07	1.55 y	40:04	1.08	56.9		2.50	-	-	*	
13C-PCB-105	3.24e+07	1.60 y	40:02	1.44	101		2.50				101
PCB-126	1.94e+07	1.58 y	42:12	1.12	55.9		2.50	-	-	*	
13C-PCB-126	3.11e+07	1.66 y	42:12	1.35	104		2.50				104
PCB-167	1.65e+07	1.30 y	43:34	1.05	63.0		2.50	-	-	*	
13C-PCB-167	2.48e+07	1.27 y	43:33	1.12	99.7		2.50				99.7
PCB-156	1.61e+07	1.28 y	44:47	1.11	61.1		2.50	-	-	*	
13C-PCB-156	2.39e+07	1.30 y	44:47	1.07	100		2.50				100
PCB-157	1.63e+07	1.25 y	45:03	1.14	57.4		2.50	-	-	*	
13C-PCB-157	2.48e+07	1.34 y	45:02	1.12	100		2.50				100
PCB-169	1.56e+07	1.25 y	46:54	1.07	62.5		2.50	-	-	*	
13C-PCB-169	2.33e+07	1.28 y	46:54	1.08	97.2		2.50				97.2
PCB-188	1.29e+07	1.05 y	39:49	1.21	60.0		2.50	-	-	*	
13C-PCB-188	1.78e+07	1.10 y	39:47	0.80	100		2.50				100
PCB-189	1.10e+07	1.05 y	48:32	1.17	61.0		2.50	-	-	*	
13C-PCB-189	1.55e+07	1.10 y	48:32	0.73	95.8		2.50				95.8
PCB-202	6.53e+06	0.91 y	44:55	1.03	63.9		2.50	-	-	*	
13C-PCB-202	9.88e+06	0.91 y	44:53	0.44	102		2.50				102
13C-PCB-178	1.26e+07	1.10 y	42:27	0.60	94.3		2.50				94.3
13C-PCB-138	2.22e+07	1.25 y	41:41	-	45.8		2.50				

FAL ID: 04579-001-0001-OPR Filename: 25JUL18Z Sam:3 Acquired: 25-JUL-18 09:20:01 ICal: DAILY209FAL4-7-25-18 2 of 2
Client ID: OPR ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

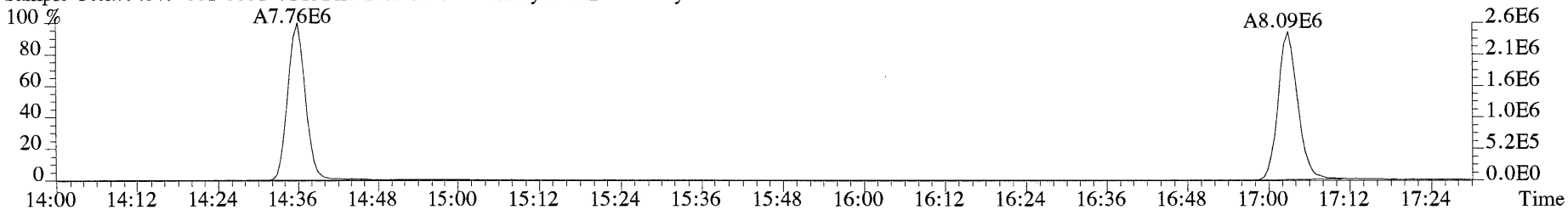
PCB-205	1.97e+07	0.91 y	50:11	1.07	60.4	2.50	-	-	*	
13C-PCB-205	3.05e+07	0.90 y	50:10	1.23	105	2.50				105
PCB-208	1.50e+07	1.38 y	49:13	1.01	59.5	2.50	-	-	*	
13C-PCB-208	2.50e+07	0.81 y	49:12	0.97	109	2.50				109
PCB-206	1.25e+07	1.37 y	51:22	1.00	61.6	2.50	-	-	*	
13C-PCB-206	2.02e+07	0.80 y	51:22	0.88	97.6	2.50				97.6
PCB-209	1.53e+07	1.20 y	52:34	1.12	61.1	2.50	-	-	*	
13C-PCB-209	2.23e+07	1.21 y	52:32	0.97	98.0	2.50				98.0
13C-PCB-194	2.36e+07	0.91 y	49:55	-	43.4	2.50				

Analyst: _____ Date: 7/26/18

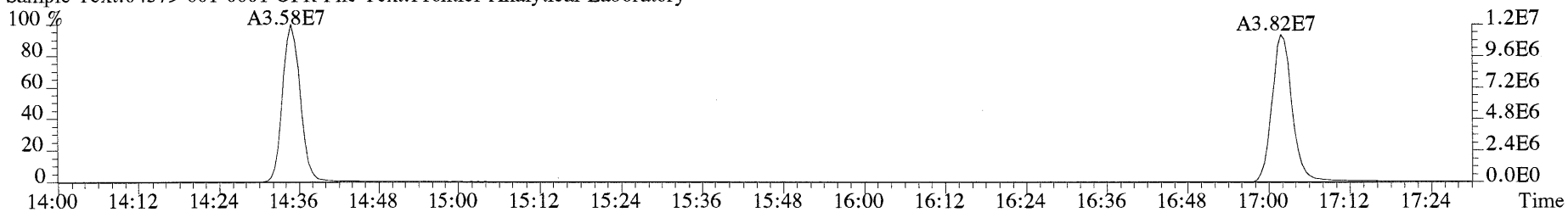
File:25JUL18Z #1-783 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



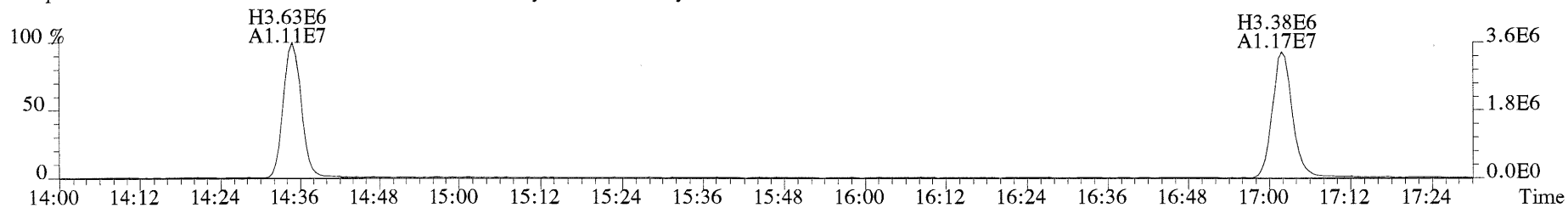
File:25JUL18Z #1-783 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



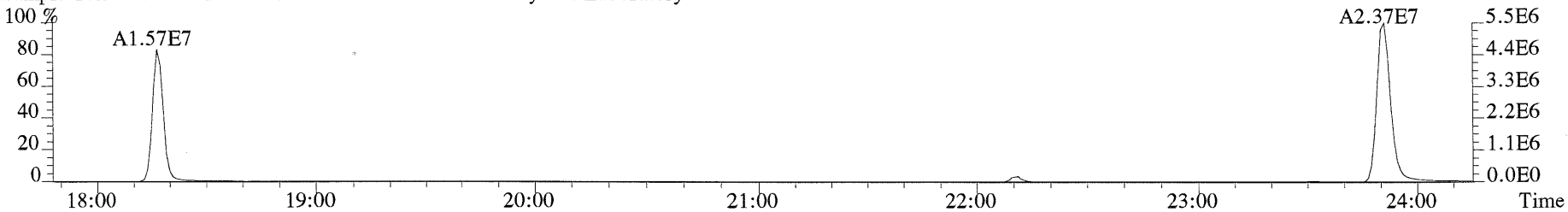
File:25JUL18Z #1-783 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



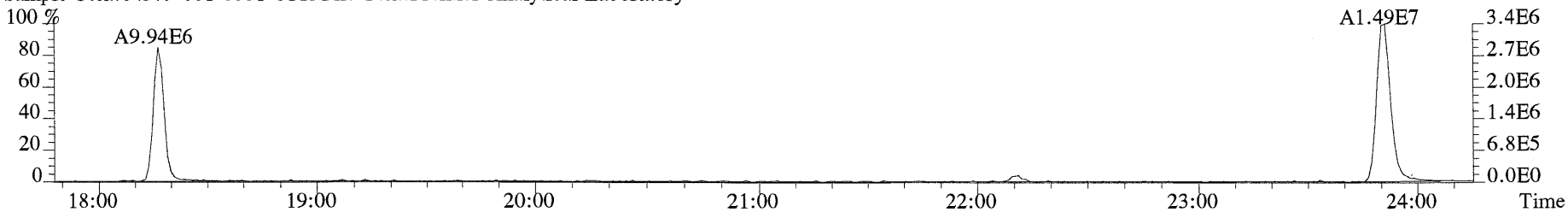
File:25JUL18Z #1-783 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



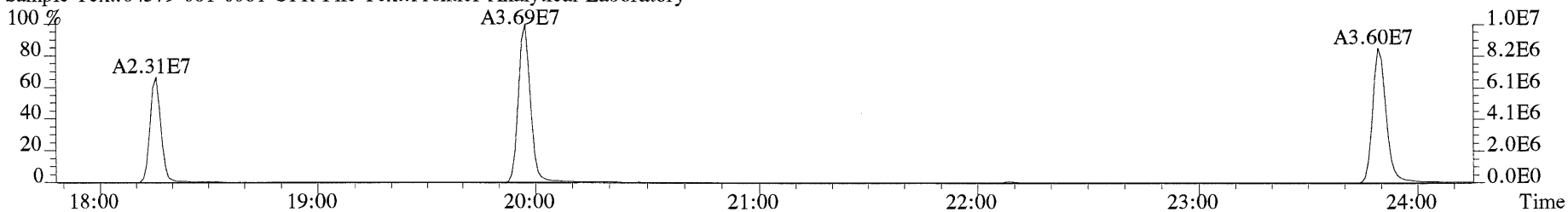
File:25JUL18Z #1-521 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



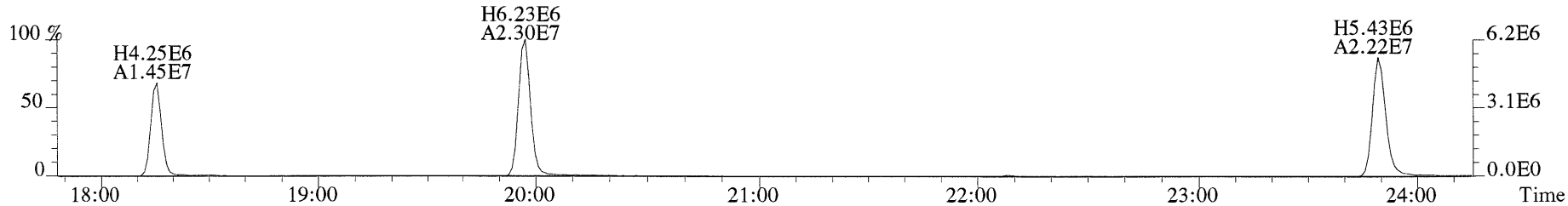
File:25JUL18Z #1-521 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



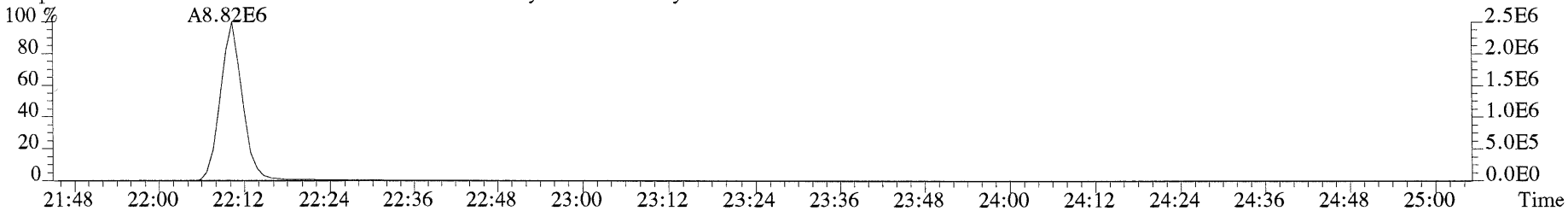
File:25JUL18Z #1-521 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



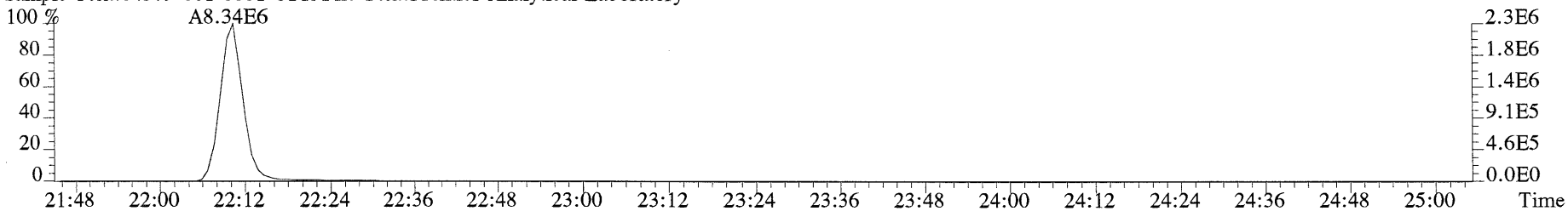
File:25JUL18Z #1-521 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



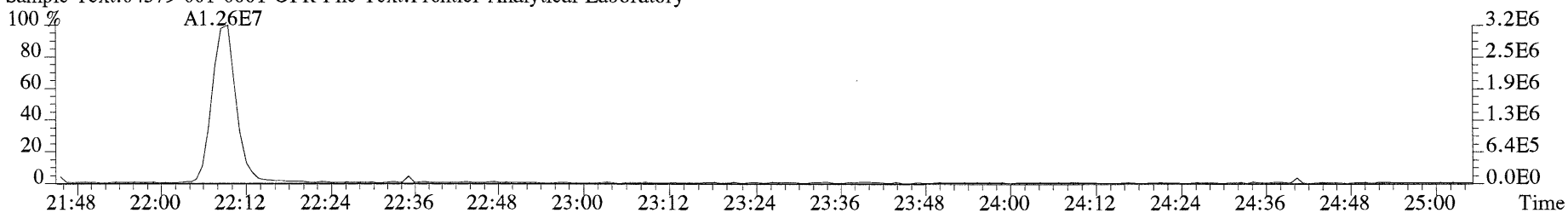
File:25JUL18Z #1-521 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



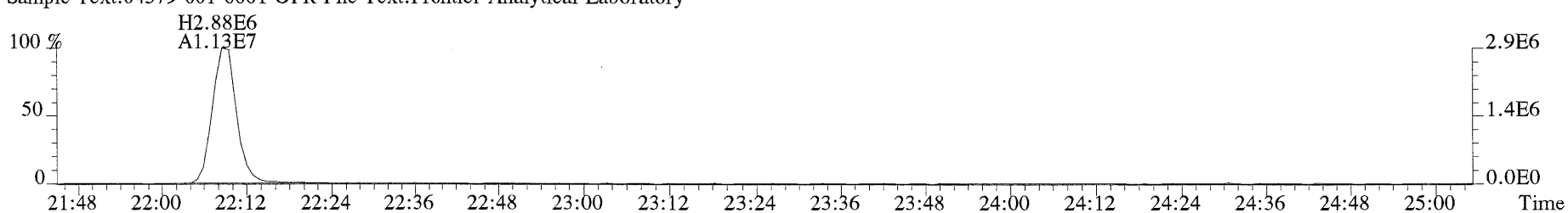
File:25JUL18Z #1-521 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



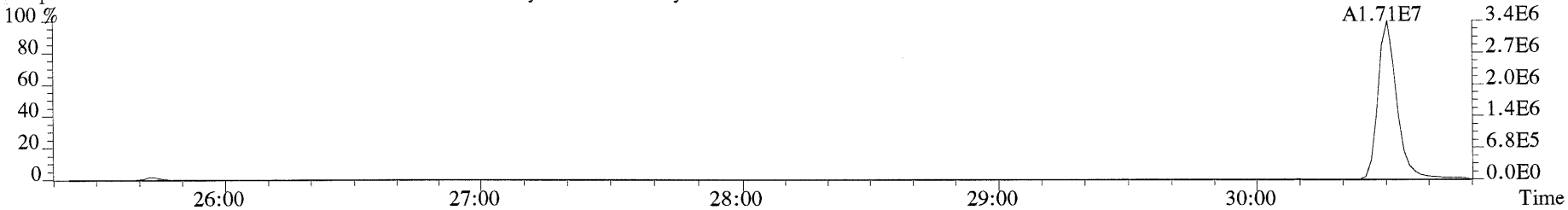
File:25JUL18Z #1-521 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



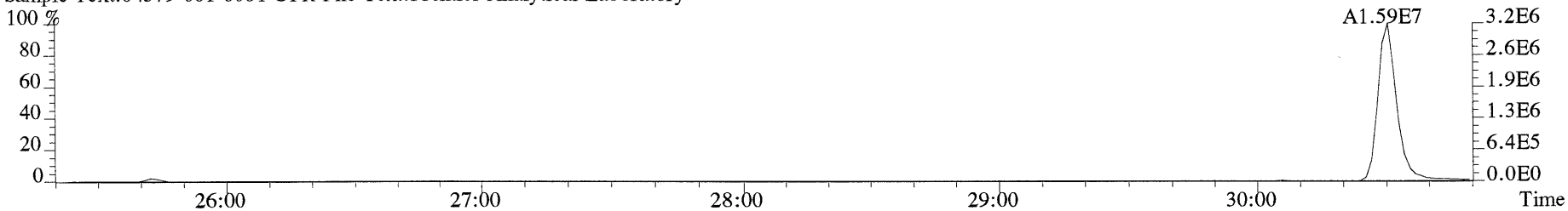
File:25JUL18Z #1-521 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



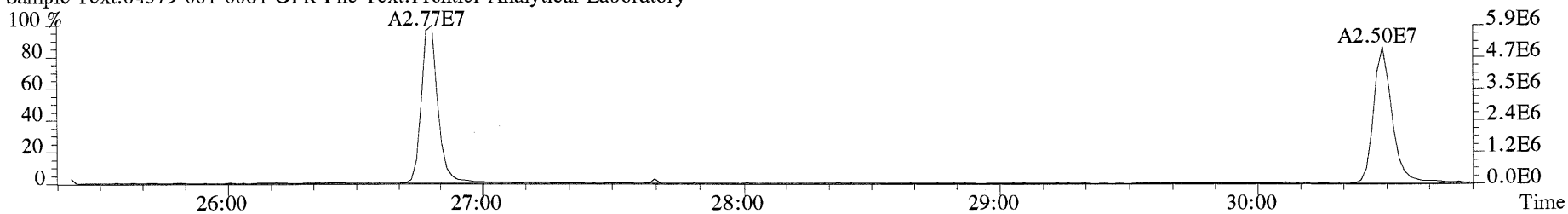
File:25JUL18Z #1-401 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



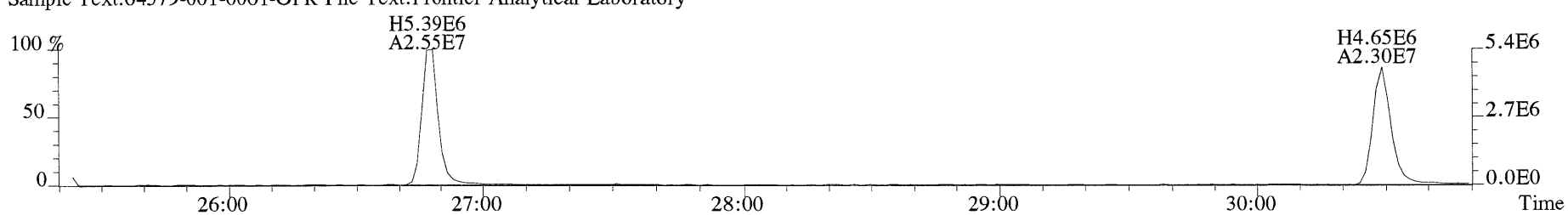
File:25JUL18Z #1-401 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



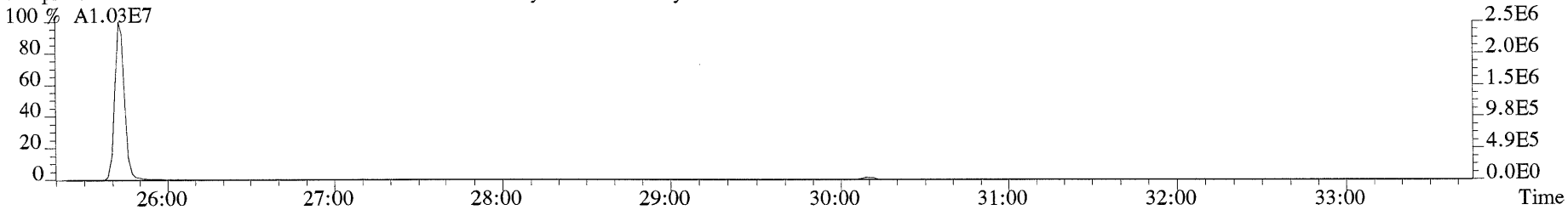
File:25JUL18Z #1-401 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



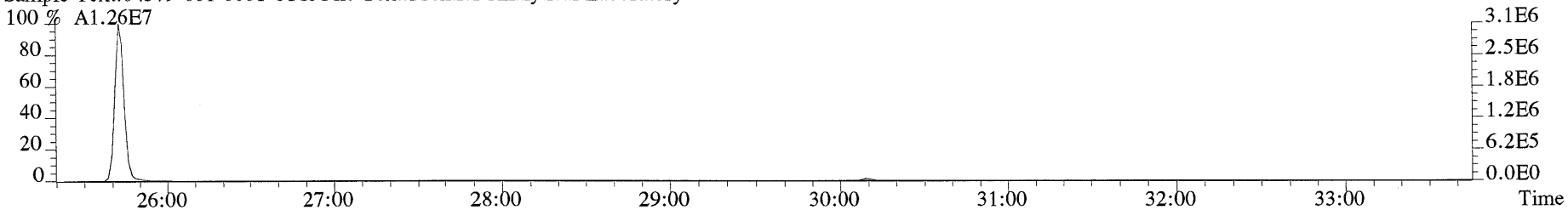
File:25JUL18Z #1-401 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



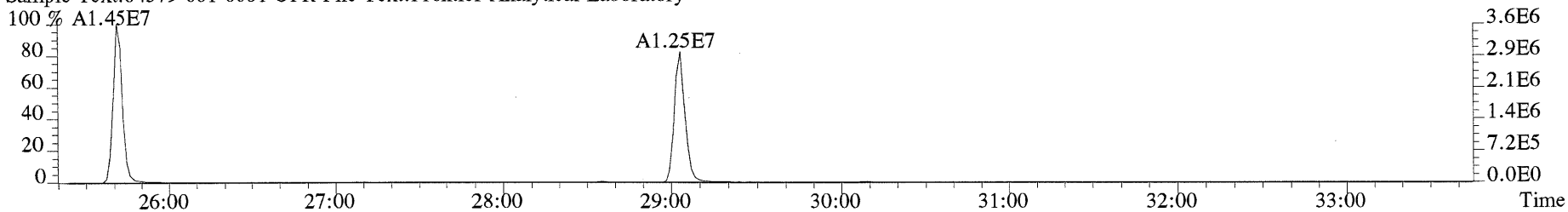
File:25JUL18Z #1-401 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



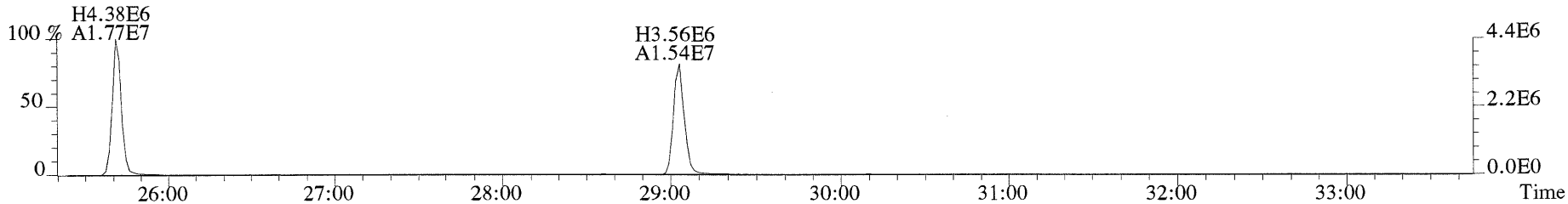
File:25JUL18Z #1-401 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



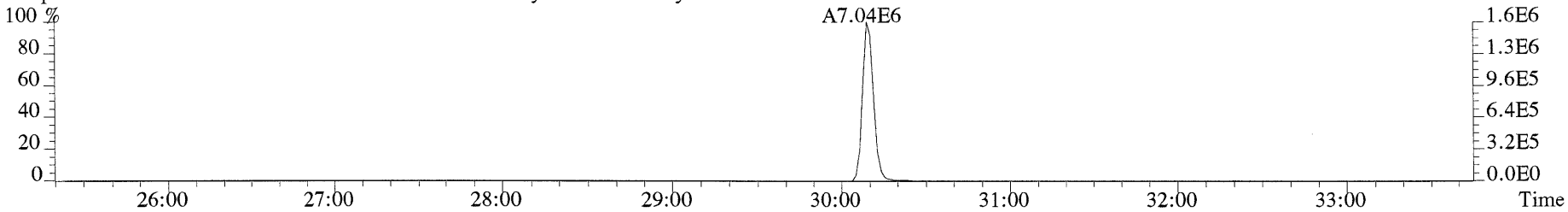
File:25JUL18Z #1-401 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



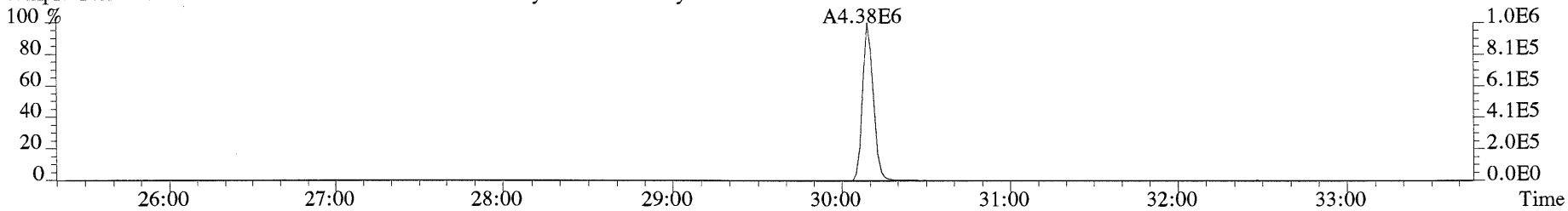
File:25JUL18Z #1-401 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



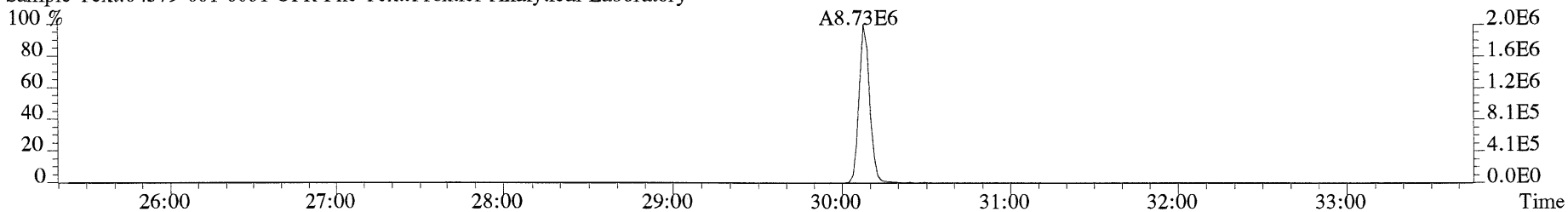
File:25JUL18Z #1-401 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



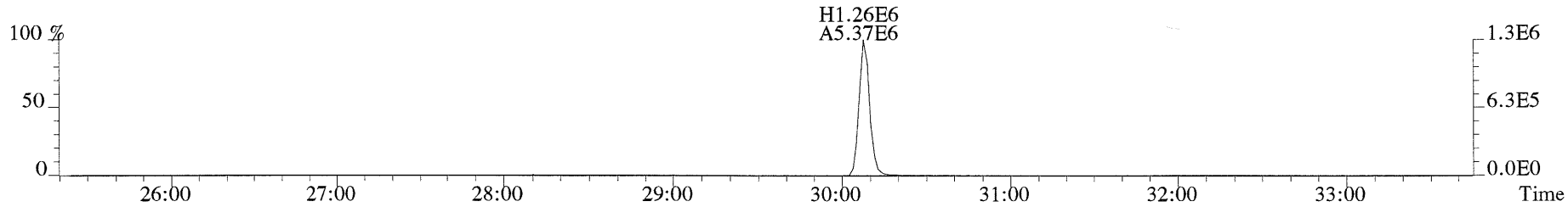
File:25JUL18Z #1-401 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



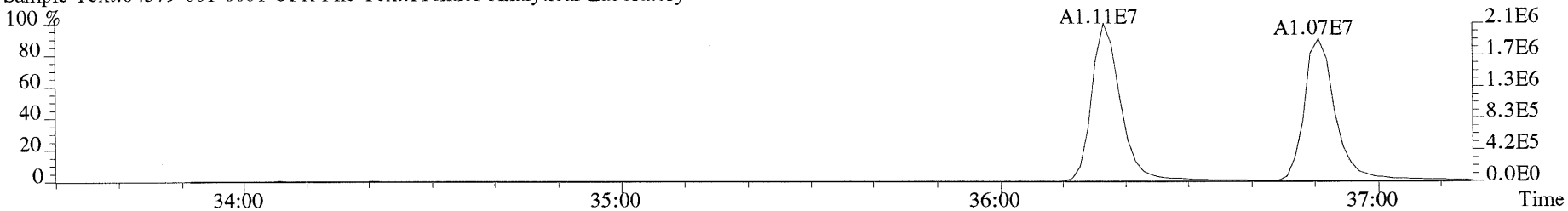
File:25JUL18Z #1-401 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



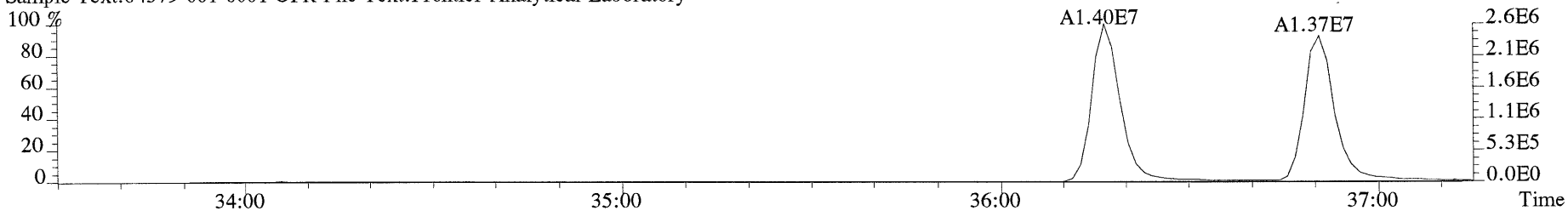
File:25JUL18Z #1-401 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



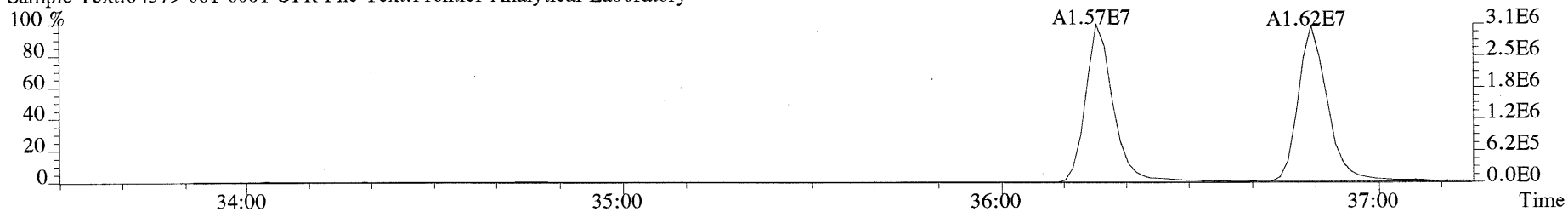
File:25JUL18Z #1-183 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



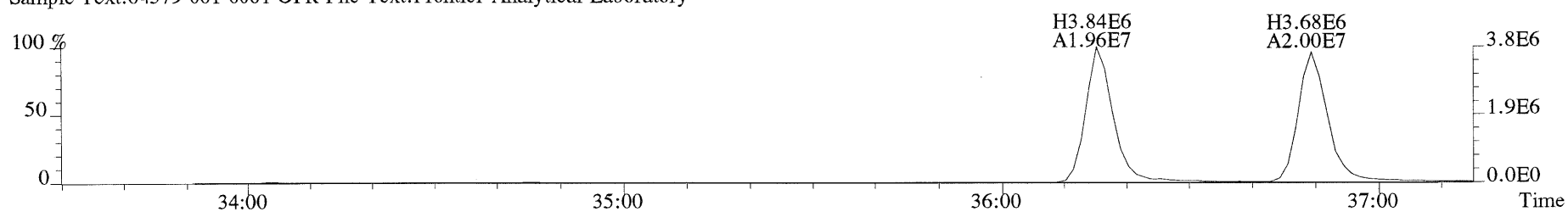
File:25JUL18Z #1-183 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



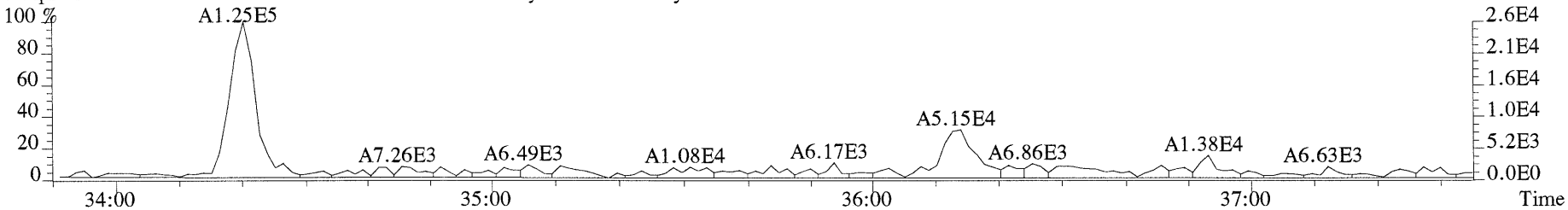
File:25JUL18Z #1-183 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



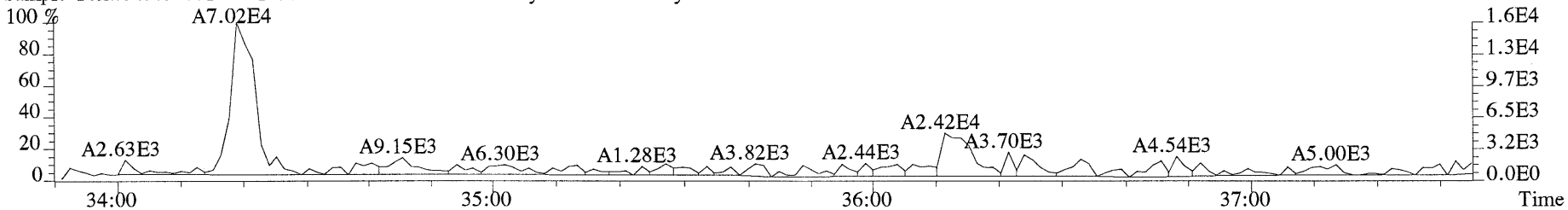
File:25JUL18Z #1-183 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



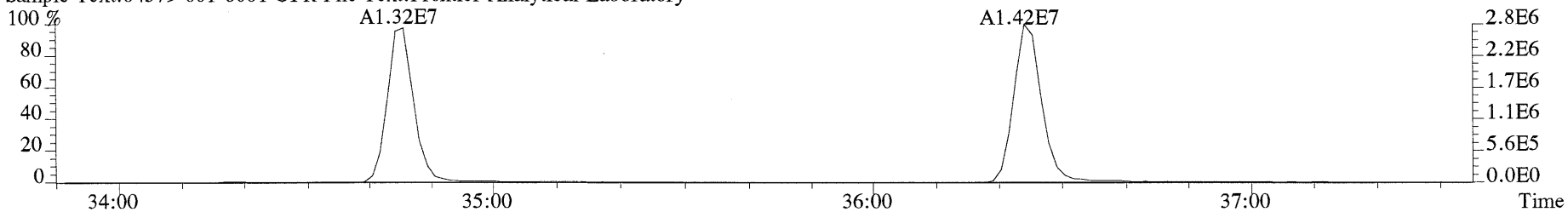
File:25JUL18Z #1-183 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



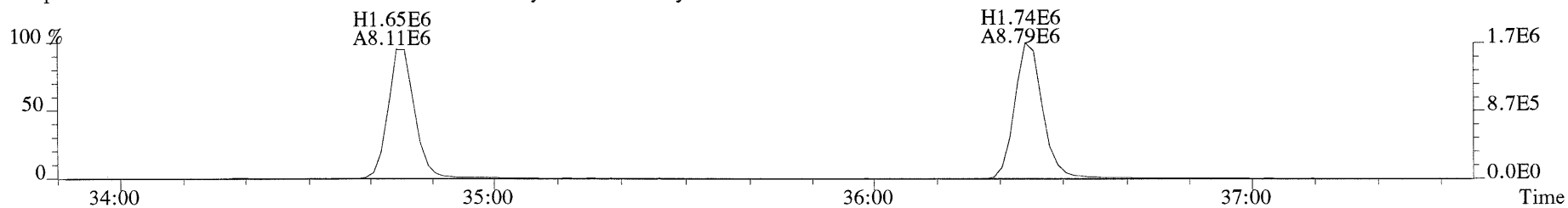
File:25JUL18Z #1-183 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



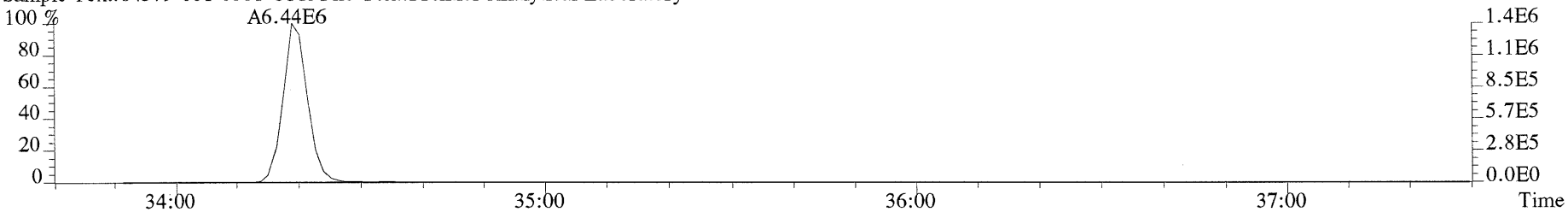
File:25JUL18Z #1-183 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



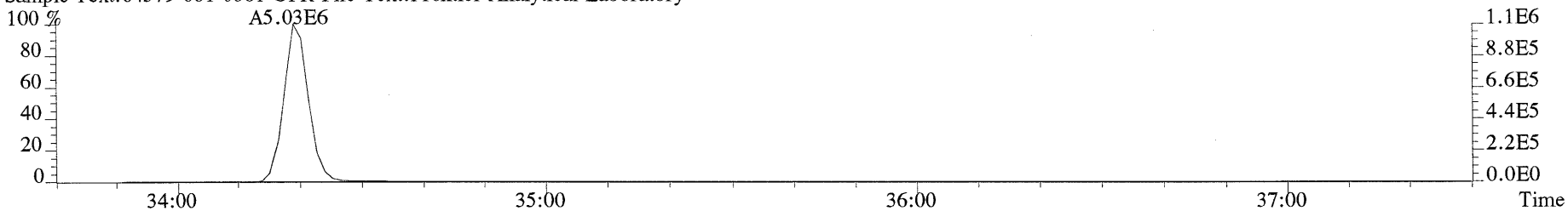
File:25JUL18Z #1-183 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



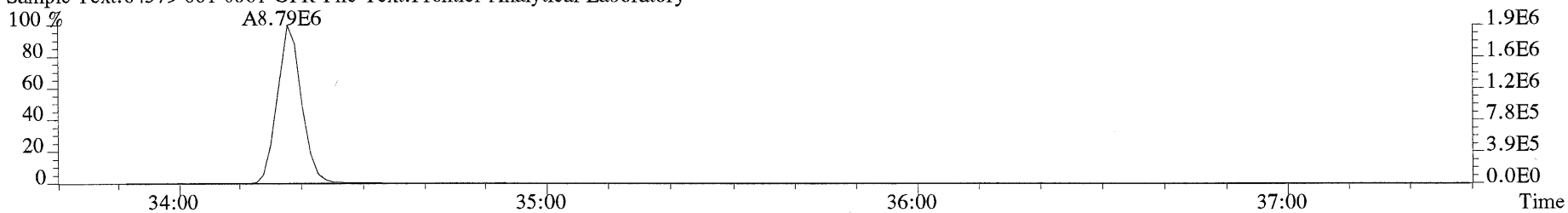
File:25JUL18Z #1-183 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



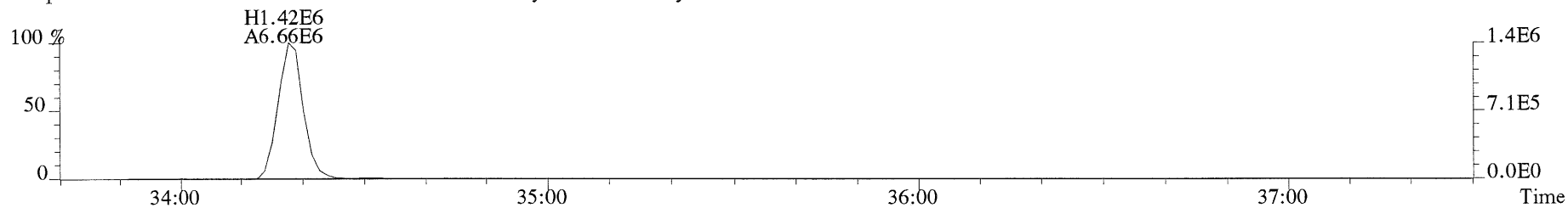
File:25JUL18Z #1-183 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



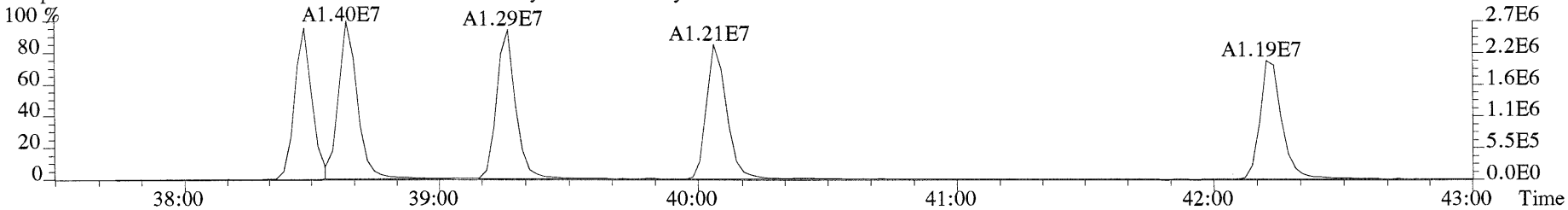
File:25JUL18Z #1-183 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



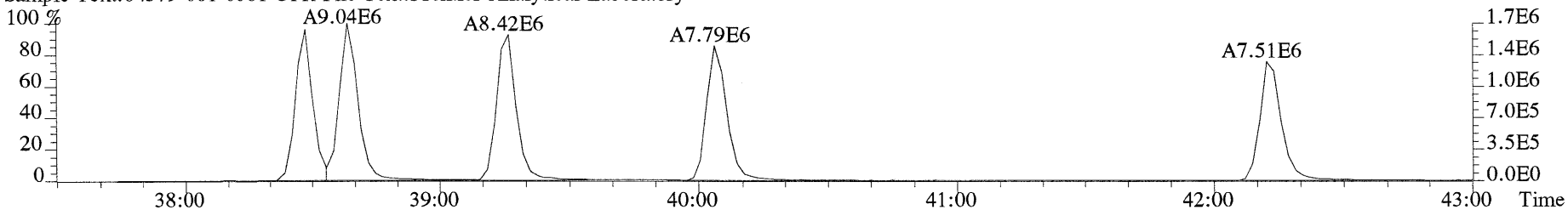
File:25JUL18Z #1-183 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



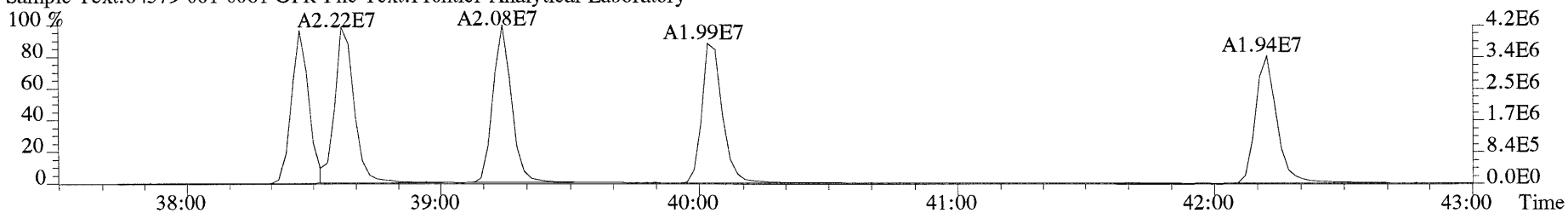
File:25JUL18Z #1-403 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



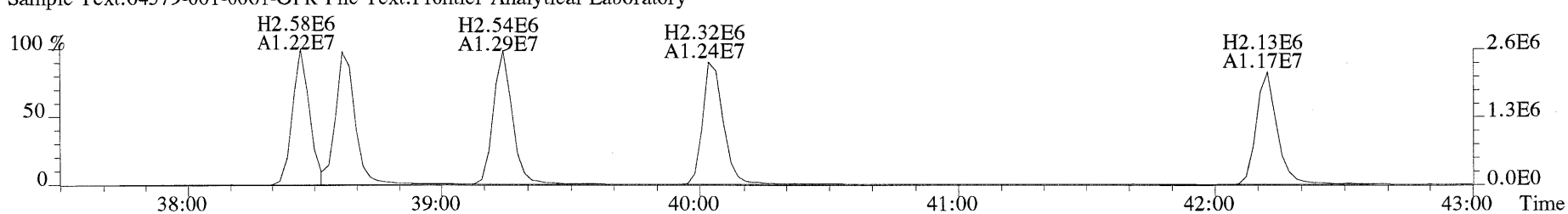
File:25JUL18Z #1-403 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



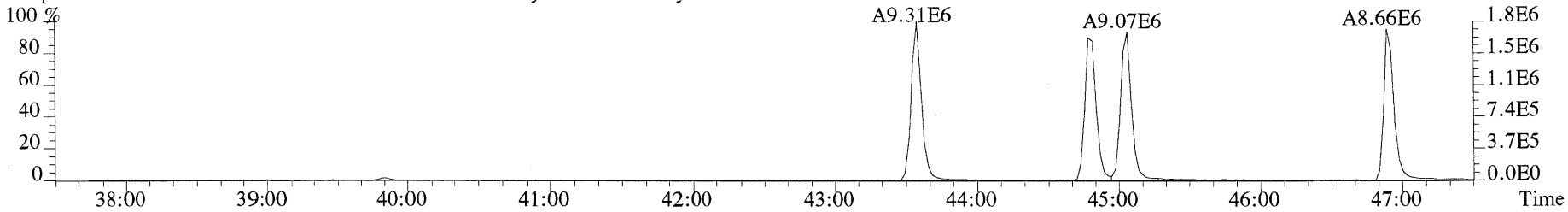
File:25JUL18Z #1-403 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



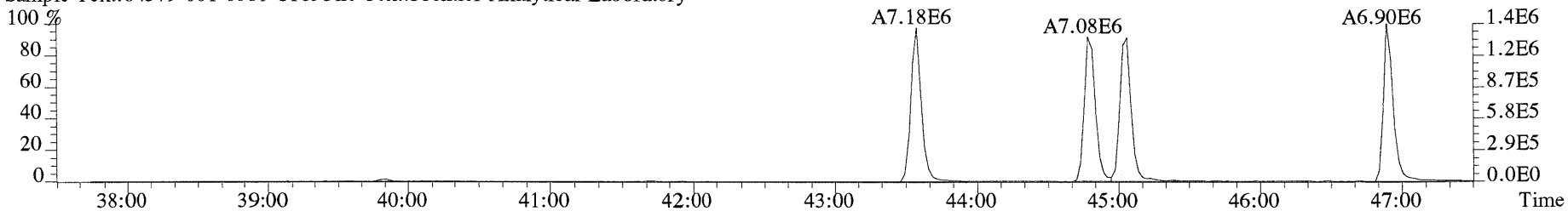
File:25JUL18Z #1-403 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



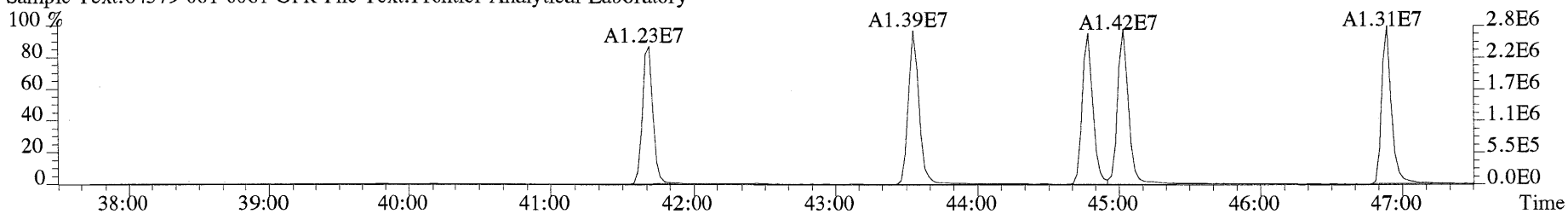
File:25JUL18Z #1-403 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



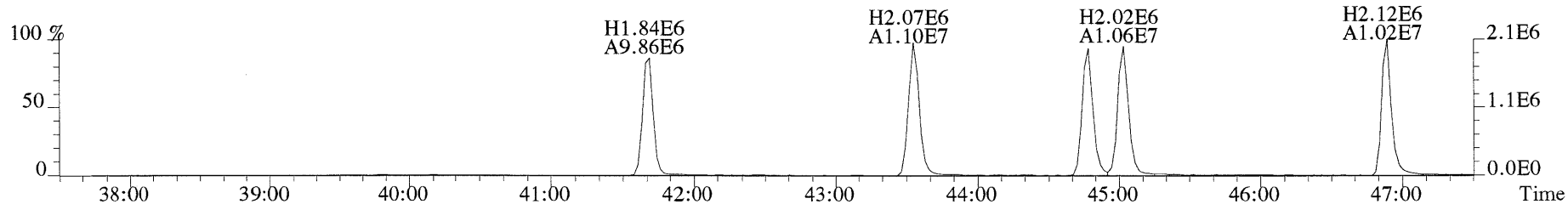
File:25JUL18Z #1-403 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



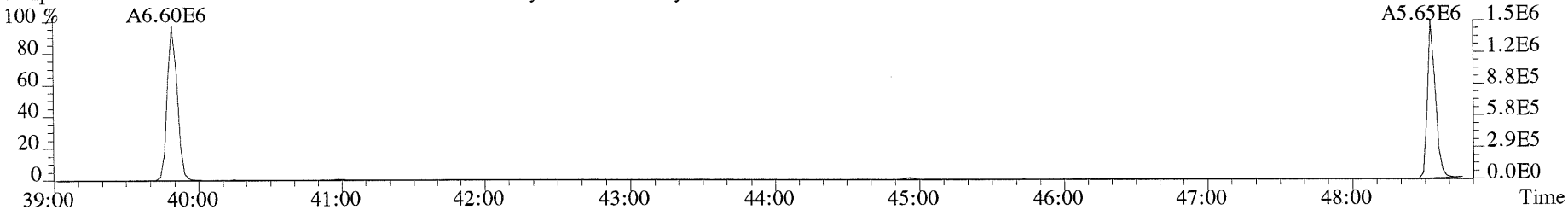
File:25JUL18Z #1-403 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



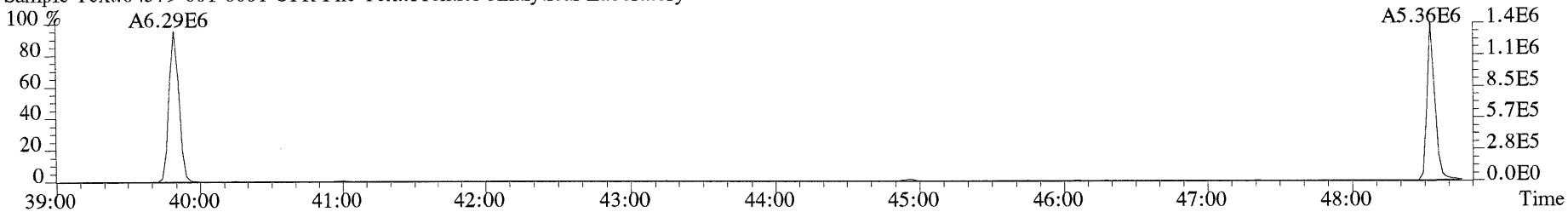
File:25JUL18Z #1-403 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



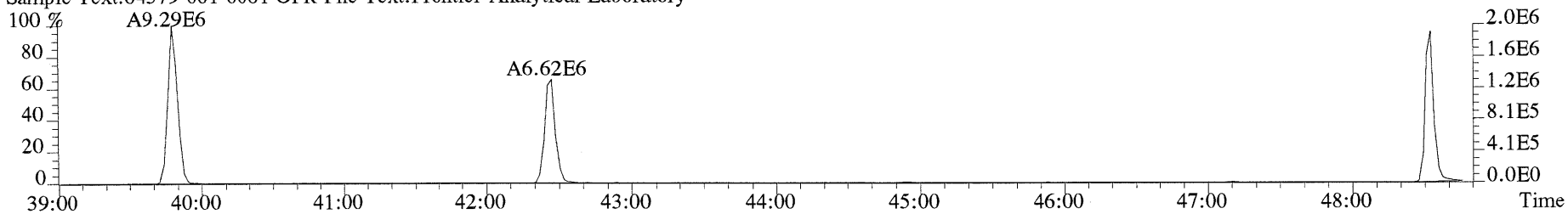
File:25JUL18Z #1-403 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



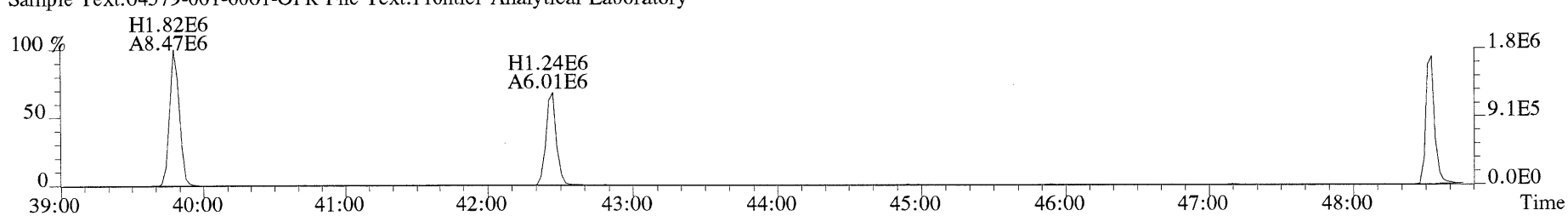
File:25JUL18Z #1-403 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



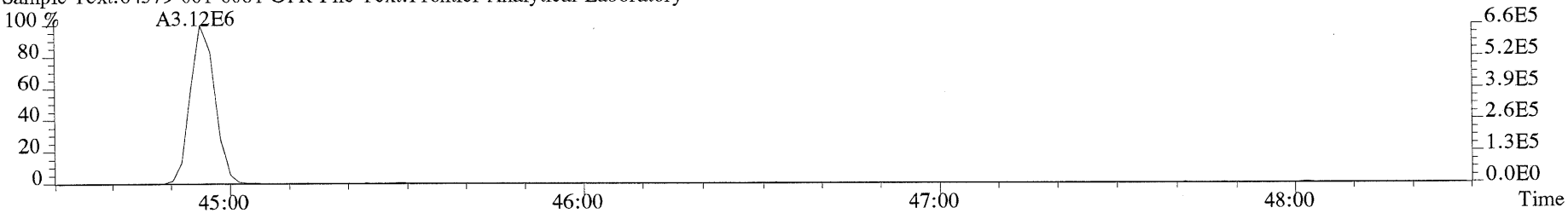
File:25JUL18Z #1-403 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



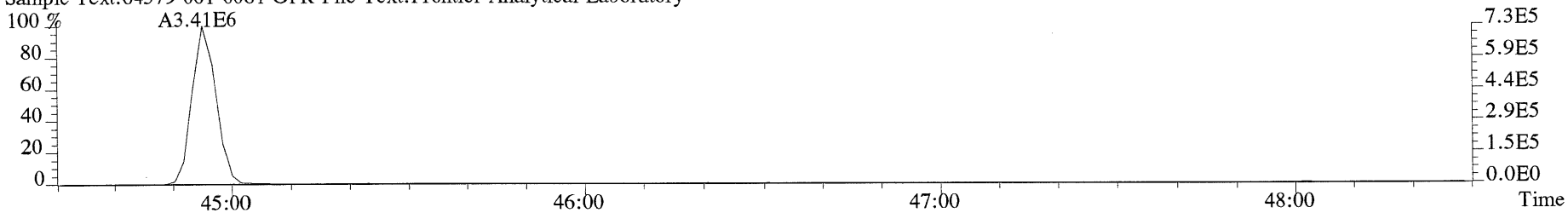
File:25JUL18Z #1-403 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



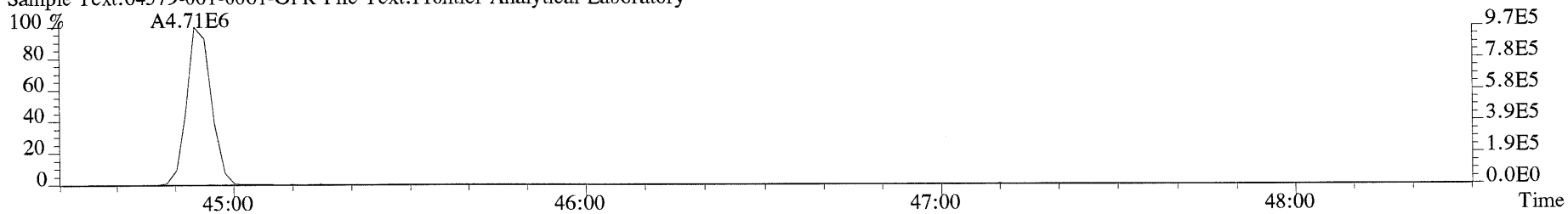
File:25JUL18Z #1-403 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



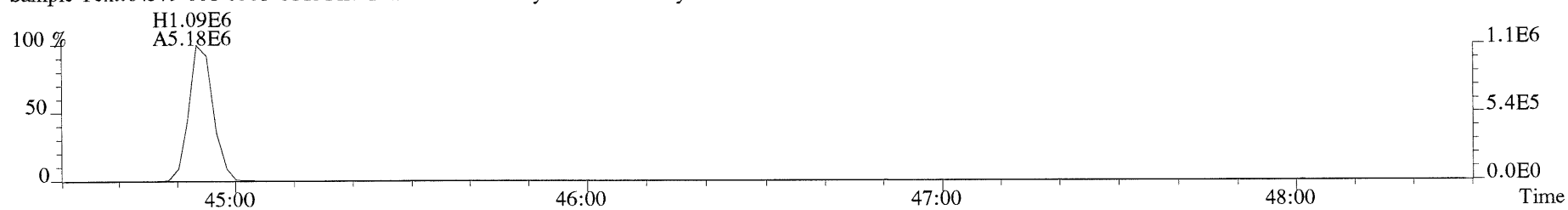
File:25JUL18Z #1-403 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



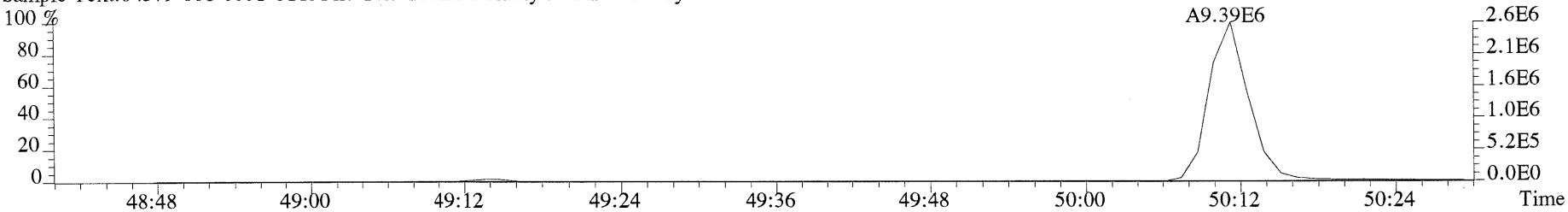
File:25JUL18Z #1-403 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



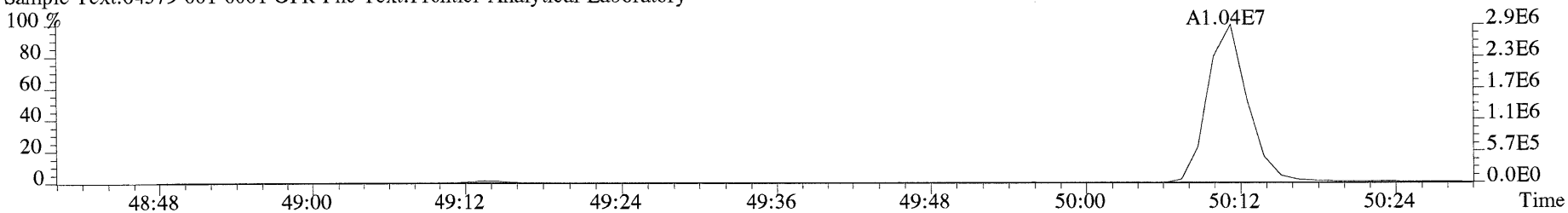
File:25JUL18Z #1-403 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



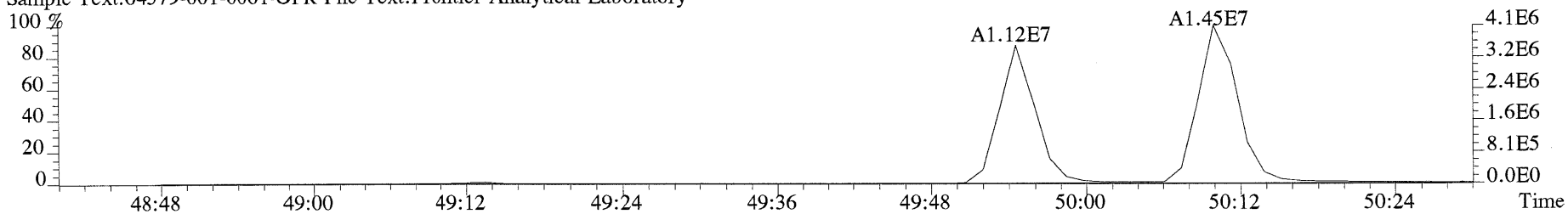
File:25JUL18Z #1-315 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



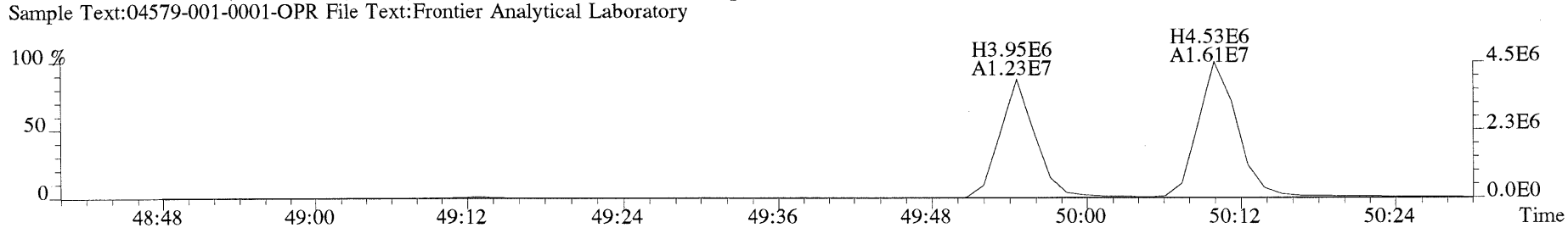
File:25JUL18Z #1-315 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



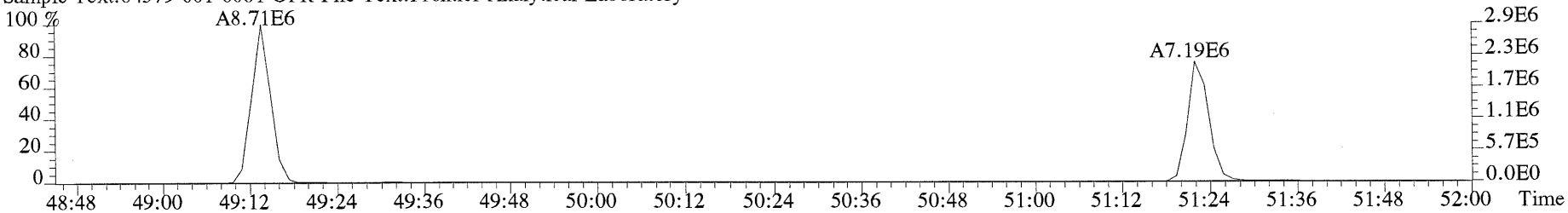
File:25JUL18Z #1-315 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



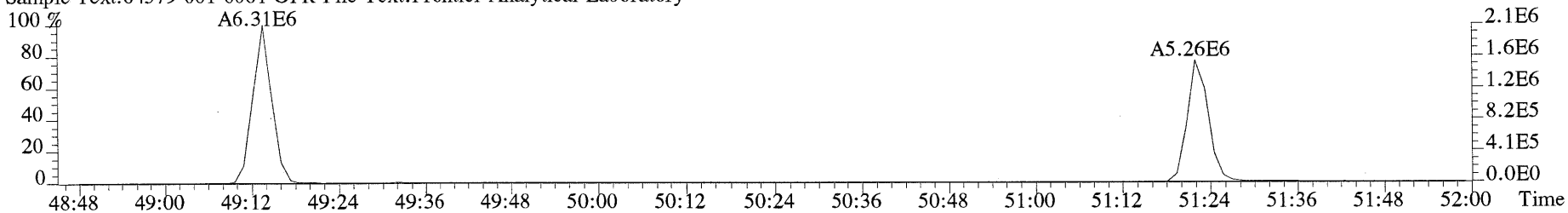
File:25JUL18Z #1-315 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



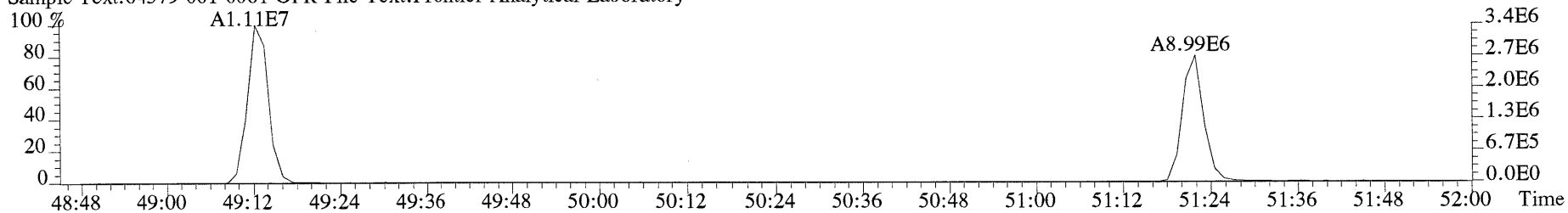
File:25JUL18Z #1-315 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



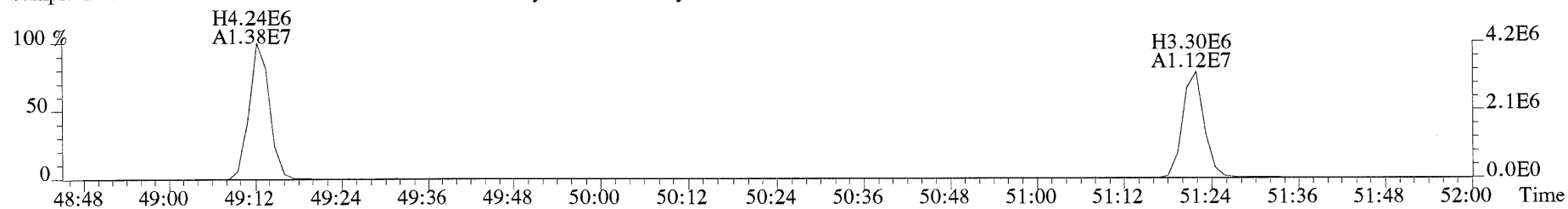
File:25JUL18Z #1-315 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



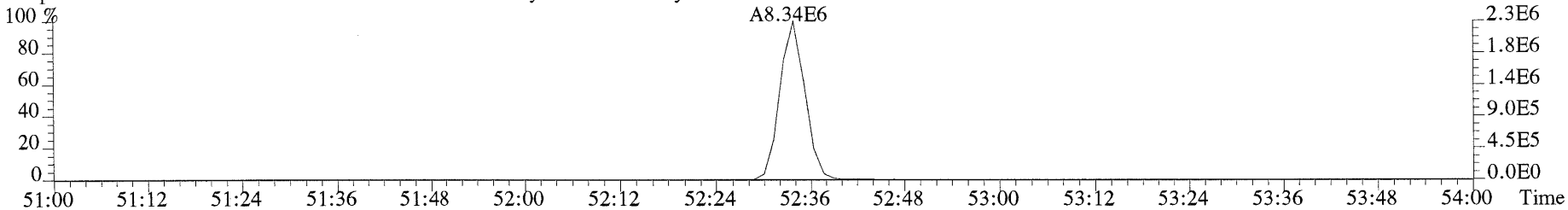
File:25JUL18Z #1-315 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



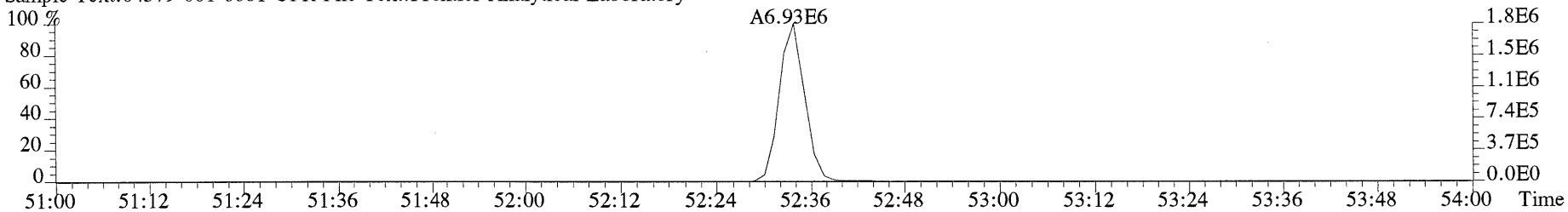
File:25JUL18Z #1-315 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



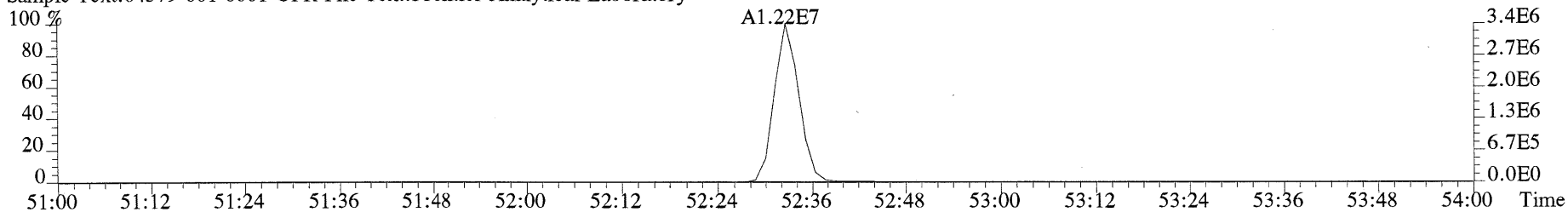
File:25JUL18Z #1-315 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



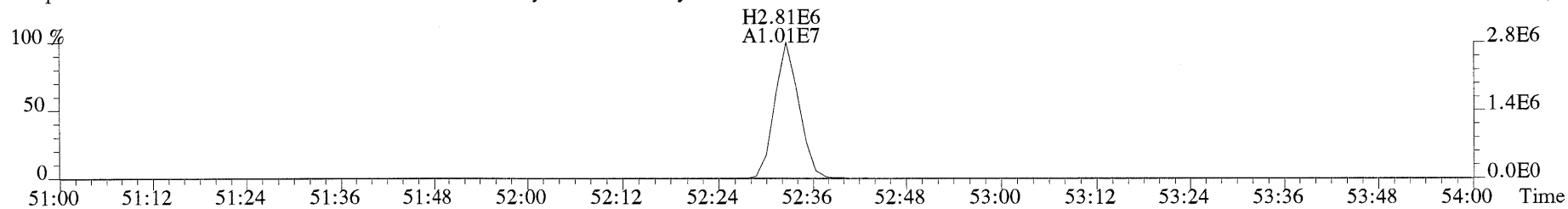
File:25JUL18Z #1-315 Acq:25-JUL-2018 09:20:01 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-315 Acq:25-JUL-2018 09:20:01 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:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-315 Acq:25-JUL-2018 09:20:01 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:04579-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 11704-002-0001-SA Filename: 25JUL18Z Sam:5 Acquired: 25-JUL-18 11:16:43 ICal: DAILY209FAL4-7-25-18
Client ID: LDW-Y1-SU-ENR-CA-S010 ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	4.92e+04	3.41 y	14:36	1.19	7.90	J	-	-	*			
13C-PCB-1	5.25e+07	3.24 y	14:35	0.80	8500					85.0	1.35e+07	4.08e+06
PCB-2	*	* n	NotFnd	1.10	*		1320	976	3.04			
PCB-3	*	* n	NotFnd	1.17	*		1320	976	2.92			
13C-PCB-3	5.65e+07	3.28 y	17:02	0.85	8690					86.9	1.29e+07	3.90e+06
PCB-4	1.04e+06	1.42 y	18:16	1.26	190		-	-	*			
PCB-10	1.08e+05	1.60 y	18:20	1.15	16.4	J	-	-	*			
13C-PCB-4	4.36e+07	1.61 y	18:16	0.63	8970					89.7	7.62e+06	4.73e+06
PCB-9	1.75e+05	1.47 y	19:59	1.28	23.9		-	-	*			
PCB-7	2.31e+05	1.49 y	20:00	1.30	31.0		-	-	*			
PCB-6	1.25e+06	1.41 y	20:36	1.28	171		-	-	*			
PCB-8	3.60e+06	1.40 y	20:58	1.28	492		-	-	*			
PCB-5	6.82e+04	1.44 y	21:06	1.29	9.24	J	-	-	*			
PCB-14	3.65e+06	1.55 y	22:02	1.23	521		-	-	*			
PCB-11	4.18e+05	1.63 y	23:10	1.20	60.8		-	-	*			
PCB-13	1.56e+05	1.60 y	23:31	1.24	22.1		-	-	*			
PCB-12	4.49e+04	1.54 y	23:33	1.25	6.28	J	-	-	*			
PCB-15	9.88e+05	1.52 y	23:50	1.12	125		-	-	*			
13C-PCB-15	7.06e+07	1.64 y	23:49	0.95	9680					96.8	1.02e+07	6.16e+06
PCB-19	7.68e+05	1.04 y	22:10	1.26	220		-	-	*			
PCB-30	*	* n	NotFnd	1.70	*		1000	432	2.84			
PCB-18	7.94e+06	1.04 y	23:43	1.21	2380		-	-	*			
PCB-17	4.05e+06	1.07 y	23:54	1.29	1130		-	-	*			
PCB-27	6.06e+05	1.04 y	24:24	1.64	134		-	-	*			
PCB-24	3.84e+05	1.07 y	24:26	1.68	82.9		-	-	*			
PCB-16	2.85e+06	1.03 y	24:54	1.42	724		-	-	*			
PCB-32	2.95e+06	1.11 y	24:55	1.44	742		-	-	*			
13C-PCB-19	2.76e+07	1.08 y	22:09	0.40	9040					90.4	3.92e+06	3.53e+06
13C-PCB-9	7.67e+07	1.62 y	19:56	-	66.8							
PCB-34	1.61e+05	1.08 y	25:41	1.09	24.0		-	-	*			
PCB-23	3.05e+04	1.08 y	25:46	1.17	4.21	J	-	-	*			
PCB-29	1.27e+05	1.07 y	26:01	1.18	17.6	J	-	-	*			
PCB-26	3.84e+06	1.06 y	26:13	1.12	558		-	-	*			
PCB-25	2.08e+06	1.07 y	26:22	1.38	245		-	-	*			
PCB-31	1.40e+07	1.05 y	26:42	1.10	2060		-	-	*			
PCB-28	1.66e+07	1.06 y	26:48	1.34	2000		-	-	*			
PCB-20	8.05e+06	1.06 y	27:24	1.19	1100		-	-	*		Co-elute PCB 21/33	
PCB-21	8.05e+06	1.06 y	27:24	1.19	1100		-	-	*		Co-elute PCB 20/33	
PCB-33	8.05e+06	1.06 y	27:24	1.19	1100		-	-	*		Co-elute PCB 20/21	
PCB-22	4.69e+06	1.03 y	27:48	1.17	652		-	-	*			
PCB-36	5.11e+06	1.04 y	28:24	1.09	760		-	-	*			
PCB-39	*	* n	NotFnd	1.13	*		624	605	2.11			
PCB-38	1.37e+05	1.10 y	29:33	1.17	19.1	J	-	-	*			
PCB-35	1.20e+05	1.11 y	30:05	1.04	18.6	J	-	-	*			
PCB-37	1.96e+06	1.08 y	30:29	1.23	259		-	-	*			
13C-PCB-37	6.16e+07	1.11 y	30:28	1.68	10300					103	6.77e+06	6.09e+06

PCB-54	6.61e+04	0.88	y	25:42	1.19	14.8	J	-	-	*			
PCB-50	7.14e+04	0.76	y	26:49	0.90	21.3		-	-	*			
PCB-53	2.25e+06	0.79	y	27:25	0.91	662		-	-	*			
PCB-51	7.58e+05	0.82	y	27:45	0.93	219		-	-	*			
PCB-45	1.84e+06	0.80	y	28:09	0.78	628		-	-	*			
PCB-46	6.96e+05	0.85	y	28:37	0.77	243		-	-	*			
PCB-52	1.62e+07	0.81	y	29:03	1.08	4020		-	-	*	Co-elute PCB 69		
PCB-69	1.62e+07	0.81	y	29:03	1.08	4020		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.19	*		670	650	3.18			
PCB-43	1.04e+07	0.82	y	29:21	0.88	3170		-	-	*	Co-elute PCB 49		
PCB-49	1.04e+07	0.82	y	29:21	0.88	3170		-	-	*	Co-elute PCB 43		
PCB-47	3.60e+06	0.80	y	29:33	1.15	835		-	-	*			
PCB-48	3.10e+06	0.83	y	29:39	1.06	779		-	-	*	Co-elute PCB 75		
PCB-75	3.10e+06	0.83	y	29:39	1.06	779		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.09	*		670	650	3.45			
PCB-62	*	*	n	NotFnd	1.15	*		670	650	3.29			
PCB-44	8.68e+06	0.80	y	30:18	0.82	2850		-	-	*			
PCB-42	4.10e+06	0.83	y	30:31	1.06	1030		-	-	*	Co-elute PCB 59		
PCB-59	4.10e+06	0.83	y	30:31	1.06	1030		-	-	*	Co-elute PCB 42		
PCB-72	1.03e+07	0.82	y	31:05	1.15	2400		-	-	*	Co-elute PCB 41/71/64		
PCB-41	1.03e+07	0.82	y	31:05	1.15	2400		-	-	*	Co-elute PCB 72/71/64		
PCB-71	1.03e+07	0.82	y	31:05	1.15	2400		-	-	*	Co-elute PCB 72/41/64		
PCB-64	1.03e+07	0.82	y	31:05	1.15	2400		-	-	*	Co-elute PCB 72/41/71		
PCB-68	1.95e+05	0.84	y	31:19	1.25	41.7		-	-	*			
PCB-40	1.41e+06	0.82	y	31:30	0.71	536		-	-	*			
PCB-57	1.02e+05	0.83	y	31:52	1.13	24.1		-	-	*			
PCB-67	3.90e+05	0.87	y	32:11	1.12	93.4		-	-	*			
PCB-58	4.55e+04	0.86	y	32:17	1.18	10.3	J	-	-	*			
PCB-63	4.97e+05	0.78	y	32:26	1.14	117		-	-	*			
PCB-74	5.03e+06	0.81	y	32:42	1.21	1110		-	-	*			
PCB-61	1.08e+07	0.80	y	32:54	1.23	2360		-	-	*	Co-elute PCB 70		
PCB-70	1.08e+07	0.80	y	32:54	1.23	2360		-	-	*	Co-elute PCB 61		
PCB-76	9.04e+06	0.82	y	33:05	1.21	2010		-	-	*	Co-elute PCB 66		
PCB-66	9.04e+06	0.82	y	33:05	1.21	2010		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.30	*		670	650	2.91			
PCB-55	3.12e+05	0.77	y	33:37	1.20	69.7		-	-	*			
13C-PCB-54	3.74e+07	0.82	y	25:40	1.11	9480					94.8	3.91e+06	4.83e+06
PCB-104	3.78e+06	1.65	y	30:09	1.35	1630		-	-	*			
PCB-96	1.21e+05	1.48	y	31:20	1.22	57.5		-	-	*			
PCB-103	1.21e+05	1.35	y	31:50	1.05	67.2		-	-	*			
PCB-100	6.38e+04	1.68	y	32:12	1.07	34.6		-	-	*			
PCB-94	4.57e+04	1.63	y	32:38	0.90	29.6		-	-	*			
PCB-98	*	*	n	NotFnd	0.54	*		296	328	7.49	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.54	*		296	328	7.49	Co-elute PCB 98		
PCB-95	6.22e+06	1.61	y	33:09	1.08	3350		-	-	*			
PCB-93	*	*	n	NotFnd	0.98	*		296	328	4.11			
PCB-88	7.81e+05	1.60	y	33:31	1.06	430		-	-	*	Co-elute PCB 91		
PCB-91	7.81e+05	1.60	y	33:31	1.06	430		-	-	*	Co-elute PCB 88		
PCB-121	7.21e+06	1.63	y	33:37	1.10	3830		-	-	*			
13C-PCB-104	1.72e+07	1.64	y	30:08	0.50	9640					96.4	2.39e+06	1.46e+06
13C-PCB-28	6.57e+07	1.08	y	26:47	1.97	9430					94.3	7.93e+06	7.28e+06
13C-PCB-52	3.55e+07	0.81	y	29:02	-	63.2							

PCB-56	6.33e+06	0.81	y	34:04	1.08	1210	-	-	*		Co-elute PCB 60	
PCB-60	6.33e+06	0.81	y	34:04	1.08	1210	-	-	*		Co-elute PCB 56	
PCB-79	1.94e+05	0.79	y	35:05	1.14	35.2	-	-	*			
PCB-78	1.18e+07	0.80	y	35:45	1.09	2220	-	-	*			
PCB-81	3.25e+05	0.70	y	36:16	1.14	58.6	-	-	*			
13C-PCB-81	4.85e+07	0.81	y	36:14	1.57	10300				103	3.98e+06	5.02e+06
PCB-77	5.98e+05	0.80	y	36:51	1.11	111	-	-	*			
13C-PCB-77	4.86e+07	0.79	y	36:48	1.61	10100				101	3.99e+06	4.91e+06
PCB-155	7.91e+06	1.29	y	34:19	1.24	3350	-	-	*			
PCB-150	*	*	n	NotFnd	1.13	*	336	284	3.43			
PCB-152	*	*	n	NotFnd	1.06	*	336	284	3.66			
PCB-145	*	*	n	NotFnd	1.10	*	336	284	3.51			
PCB-136	1.12e+06	1.34	y	36:41	1.06	553	-	-	*			
PCB-148	*	*	n	NotFnd	0.84	*	336	284	4.61			
PCB-154	1.29e+05	1.28	y	37:15	0.97	69.6	-	-	*			
13C-PCB-155	1.91e+07	1.33	y	34:18	0.67	9440				94.4	2.31e+06	1.70e+06
13C-PCB-111	3.06e+07	1.61	y	36:24	1.16	8810				88.1	3.66e+06	2.27e+06
13C-PCB-101	3.00e+07	1.62	y	34:45	-	63.4						
PCB-84	4.78e+06	1.57	y	34:23	0.61	1710	-	-	*		Co-elute PCB 92	
PCB-92	4.78e+06	1.57	y	34:23	0.61	1710	-	-	*		Co-elute PCB 84	
PCB-89	1.60e+05	1.41	y	34:33	0.58	60.4	-	-	*			
PCB-90	1.14e+07	1.58	y	34:46	0.68	3680	-	-	*		Co-elute PCB 101	
PCB-101	1.14e+07	1.58	y	34:46	0.68	3680	-	-	*		Co-elute PCB 90	
PCB-113	*	*	n	NotFnd	0.77	*	544	566	4.05			
PCB-99	5.05e+06	1.61	y	35:05	0.75	1480	-	-	*			
PCB-119	3.19e+05	1.55	y	35:30	0.81	85.8	-	-	*			
PCB-83	5.30e+05	1.72	y	35:39	0.69	169	-	-	*		Co-elute PCB 112	
PCB-112	5.30e+05	1.72	y	35:39	0.69	169	-	-	*		Co-elute PCB 83	
PCB-109	*	*	n	NotFnd	0.82	*	544	566	3.79			
PCB-97	2.91e+06	1.51	y	35:59	0.73	875	-	-	*			
PCB-86	*	*	n	NotFnd	0.70	*	544	566	4.42			
PCB-125	4.17e+06	1.55	y	36:16	0.72	1260	-	-	*		Co-elute PCB 87/117	
PCB-87	4.17e+06	1.55	y	36:16	0.72	1260	-	-	*		Co-elute PCB 125/117	
PCB-117	4.17e+06	1.55	y	36:16	0.72	1260	-	-	*		Co-elute PCB 125/87	
PCB-111	2.12e+05	1.44	y	36:24	0.99	46.7	-	-	*		Co-elute PCB 115	
PCB-115	2.12e+05	1.44	y	36:24	0.99	46.7	-	-	*		Co-elute PCB 111	
PCB-85	1.64e+06	1.54	y	36:31	0.71	508	-	-	*		Co-elute PCB 116	
PCB-116	1.64e+06	1.54	y	36:31	0.71	508	-	-	*		Co-elute PCB 85	
PCB-120	*	*	n	NotFnd	0.81	*	544	566	3.83			
PCB-110	1.19e+07	1.62	y	36:53	0.96	2720	-	-	*			
PCB-82	8.74e+05	1.52	y	37:29	0.50	384	-	-	*			
PCB-124	4.50e+05	1.60	y	38:09	0.91	109	-	-	*			
PCB-108	7.92e+05	1.59	y	38:19	1.07	161	-	-	*		Co-elute PCB 107	
PCB-107	7.92e+05	1.59	y	38:19	1.07	161	-	-	*		Co-elute PCB 108	
PCB-123	2.11e+05	1.44	y	38:27	1.23	40.0	-	-	*			
13C-PCB-123	4.29e+07	1.61	y	38:26	1.40	9760				97.6	5.58e+06	3.44e+06
PCB-118	9.21e+06	1.53	y	38:37	1.03	1860	-	-	*		Co-elute PCB 106	
PCB-106	9.21e+06	1.53	y	38:37	1.03	1860	-	-	*		Co-elute PCB 118	
13C-PCB-118	4.80e+07	1.61	y	38:37	1.53	9970				99.7	5.31e+06	3.27e+06
PCB-114	2.45e+05	1.47	y	39:15	1.07	48.7	-	-	*			
13C-PCB-114	4.70e+07	1.62	y	39:13	1.46	10200				102	5.88e+06	3.69e+06
PCB-122	1.43e+05	1.54	y	39:22	1.10	28.5	-	-	*			
PCB-105	3.62e+06	1.62	y	40:03	1.08	748	-	-	*			
13C-PCB-105	4.48e+07	1.63	y	40:03	1.44	9910				99.1	5.37e+06	3.24e+06

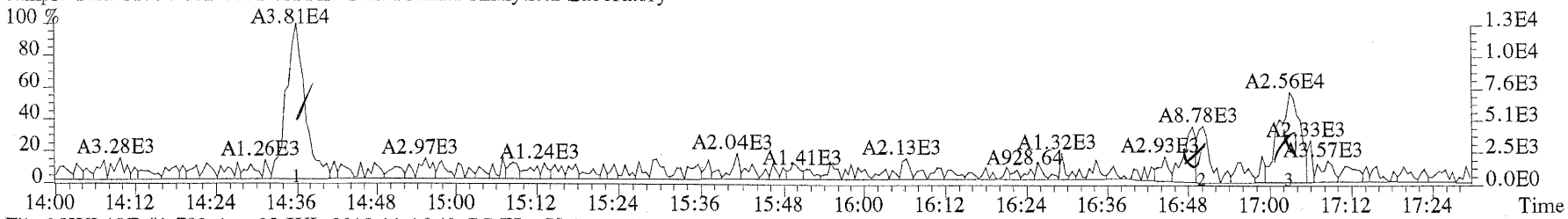
PCB-127	*	*	n	NotFnd	0.99	*		599	540	3.23				
PCB-126	3.82e+04	1.69	y	42:10	1.12	7.81	J	-	-	*				
13C-PCB-126	4.38e+07	1.60	y	42:11	1.35	10400					104	4.97e+06	3.09e+06	
PCB-151	2.14e+06	1.25	y	37:53	0.85	769		-	-	*				
PCB-135	1.22e+06	1.27	y	38:04	0.82	453		-	-	*				
PCB-144	5.69e+05	1.25	y	38:11	0.93	187		-	-	*				
PCB-147	1.81e+05	1.39	y	38:17	0.92	60.1		-	-	*				
PCB-139	7.81e+06	1.28	y	38:32	0.98	2440		-	-	*		Co-elute PCB 149		
PCB-149	7.81e+06	1.28	y	38:32	0.98	2440		-	-	*		Co-elute PCB 139		
PCB-140	1.04e+05	1.38	y	38:42	0.95	33.2		-	-	*				
PCB-143	4.92e+05	1.29	y	39:09	0.90	168		-	-	*		Co-elute PCB 134		
PCB-134	4.92e+05	1.29	y	39:09	0.90	168		-	-	*		Co-elute PCB 143		
PCB-131	2.30e+05	1.23	y	39:25	0.90	77.8		-	-	*		Co-elute PCB 133		
PCB-133	2.30e+05	1.23	y	39:25	0.90	77.8		-	-	*		Co-elute PCB 131		
PCB-142	1.43e+07	1.26	y	39:35	0.77	5640		-	-	*				
PCB-165	1.34e+06	1.34	y	39:48	1.05	390		-	-	*		Co-elute PCB 146		
PCB-146	1.34e+06	1.34	y	39:48	1.05	390		-	-	*		Co-elute PCB 165		
PCB-161	2.62e+06	1.27	y	40:03	1.00	803		-	-	*		Co-elute PCB 132		
PCB-132	2.62e+06	1.27	y	40:03	1.00	803		-	-	*		Co-elute PCB 161		
PCB-153	8.20e+06	1.29	y	40:11	1.01	2480		-	-	*				
PCB-168	*	*	n	NotFnd	1.15	*		550	592	3.66				
PCB-141	1.36e+06	1.26	y	40:54	0.89	466		-	-	*				
PCB-137	2.73e+05	1.23	y	41:15	0.90	92.5		-	-	*				
PCB-130	4.70e+05	1.29	y	41:20	0.76	189		-	-	*				
PCB-138	8.05e+06	1.27	y	41:42	1.17	2090		-	-	*		Co-elute PCB 163/164		
PCB-163	8.05e+06	1.27	y	41:42	1.17	2090		-	-	*		Co-elute PCB 138/164		
PCB-164	8.05e+06	1.27	y	41:42	1.17	2090		-	-	*		Co-elute PCB 138/163		
PCB-158	1.01e+06	1.27	y	41:55	1.18	261		-	-	*		Co-elute PCB 160		
PCB-160	1.01e+06	1.27	y	41:55	1.18	261		-	-	*		Co-elute PCB 158		
PCB-129	3.36e+05	1.29	y	42:10	0.77	134		-	-	*				
PCB-166	*	*	n	NotFnd	1.08	*		550	592	3.91				
PCB-159	9.85e+04	1.33	y	42:56	1.19	25.2		-	-	*				
PCB-128	1.06e+06	1.31	y	43:09	0.98	332		-	-	*		Co-elute PCB 162		
PCB-162	1.06e+06	1.31	y	43:09	0.98	332		-	-	*		Co-elute PCB 128		
PCB-167	2.42e+05	1.17	y	43:34	1.05	69.6		-	-	*				
13C-PCB-167	3.29e+07	1.30	y	43:32	1.12	9350					93.5	3.74e+06	2.86e+06	
PCB-156	6.38e+05	1.16	y	44:48	1.11	179		-	-	*				
13C-PCB-156	3.23e+07	1.31	y	44:46	1.07	9570					95.7	3.71e+06	2.76e+06	
PCB-157	1.23e+05	1.29	y	45:02	1.14	32.4		-	-	*				
13C-PCB-157	3.31e+07	1.30	y	45:01	1.12	9440					94.4	3.82e+06	2.97e+06	
PCB-169	*	*	n	NotFnd	1.07	*		550	592	3.69				
13C-PCB-169	3.27e+07	1.29	y	46:53	1.08	9630					96.3	4.11e+06	3.14e+06	

FAL ID: 11704-002-0001-SA Filename: 25JUL18Z Sam:5 Acquired: 25-JUL-18 11:16:43 ICal: DAILY209FAL4-7-25-18
Client ID: LDW-Y1-SU-ENR-CA-S010 ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

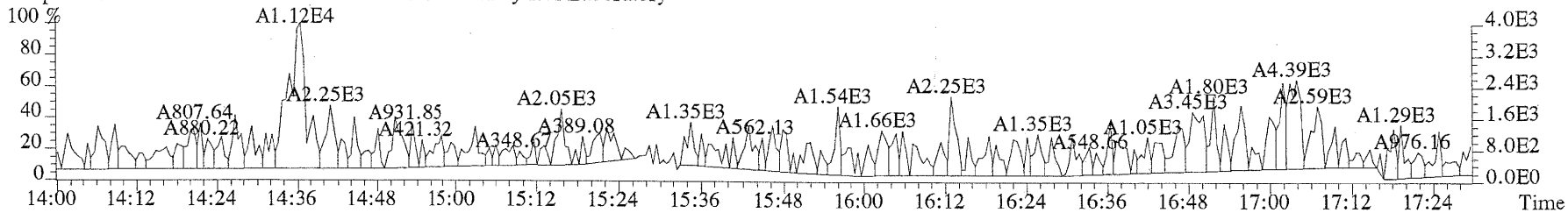
PCB-188	*	*	n	NotFnd	1.21	*		600	380	4.41			
13C-PCB-188	2.25e+07	1.09	y	39:46	0.80	8950					89.5	2.36e+06	2.24e+06
PCB-184	1.18e+07	1.09	y	40:14	1.25	4340		-	-	*			
PCB-179	8.40e+05	1.05	y	40:57	1.15	334		-	-	*			
PCB-176	2.59e+05	1.14	y	41:23	1.14	104		-	-	*			
PCB-186	*	*	n	NotFnd	1.19	*		600	380	4.03			
PCB-178	2.51e+05	1.06	y	42:28	0.83	139		-	-	*			
PCB-175	5.13e+04	0.93	y	42:47	0.88	26.6		-	-	*			
PCB-187	1.48e+06	1.06	y	42:56	0.99	683		-	-	*		Co-elute PCB 182	
PCB-182	1.48e+06	1.06	y	42:56	0.99	683		-	-	*		Co-elute PCB 187	
PCB-183	6.92e+05	1.02	y	43:15	0.93	340		-	-	*			
PCB-185	1.08e+05	1.04	y	43:52	0.88	56.0		-	-	*			
PCB-174	1.07e+06	1.05	y	44:11	0.89	551		-	-	*			
PCB-181	*	*	n	NotFnd	0.90	*		600	380	5.31			
PCB-177	5.87e+05	1.07	y	44:28	0.79	339		-	-	*			
PCB-171	2.69e+05	1.16	y	44:46	0.85	144		-	-	*			
PCB-173	*	*	n	NotFnd	0.80	*		600	380	5.99			
PCB-172	3.66e+05	1.21	y	45:32	0.80	211		-	-	*			
PCB-192	7.75e+06	1.06	y	45:44	1.11	3200		-	-	*			
PCB-180	1.83e+06	1.13	y	45:53	1.09	766		-	-	*			
PCB-193	1.43e+05	0.98	y	46:03	1.16	56.2		-	-	*			
PCB-191	4.63e+04	0.93	y	46:16	1.08	19.6	J	-	-	*			
PCB-170	6.92e+05	1.13	y	47:11	0.77	410		-	-	*			
PCB-190	2.00e+05	1.07	y	47:21	1.09	84.2		-	-	*			
PCB-189	2.85e+04	1.00	y	48:33	1.17	11.6	J	-	-	*			
13C-PCB-189	2.11e+07	1.09	y	48:31	0.73	9240					92.4	3.01e+06	2.76e+06
PCB-202	6.15e+04	0.99	y	44:54	1.03	48.3		-	-	*			
PCB-201	*	*	n	NotFnd	1.02	*		184	208	3.62			
PCB-204	1.18e+07	0.92	y	45:30	1.00	9610		-	-	*			
PCB-197	9.01e+04	0.89	y	45:45	1.08	67.6		-	-	*			
PCB-200	4.64e+04	0.98	y	46:30	1.01	37.5		-	-	*			
PCB-198	1.15e+04	0.78	y	47:40	0.74	12.6	J	-	-	*			
PCB-199	1.96e+05	0.93	y	47:45	0.84	190		-	-	*			
PCB-203	2.16e+05	0.92	y	48:00	0.87	203		-	-	*		Co-elute PCB 196	
PCB-196	2.16e+05	0.92	y	48:00	0.87	203		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.23e+07	0.94	y	44:53	0.44	8950					89.5	1.27e+06	1.38e+06
13C-PCB-178	1.64e+07	1.11	y	42:26	0.60	8630					86.3	1.83e+06	1.60e+06
13C-PCB-138	3.14e+07	1.31	y	41:40	-	64.8							
PCB-195	2.19e+05	0.91	y	49:07	0.71	76.0		-	-	*			
PCB-194	4.81e+05	0.96	y	49:55	0.79	149		-	-	*			
PCB-205	3.81e+04	0.83	y	50:09	1.07	8.74	J	-	-	*			
13C-PCB-205	4.07e+07	0.91	y	50:09	1.23	9410					94.1	6.02e+06	6.58e+06
PCB-208	4.43e+04	1.19	y	49:13	1.01	14.2	J	-	-	*			
13C-PCB-208	3.07e+07	0.81	y	49:12	0.97	9000					90.0	4.13e+06	5.28e+06
PCB-207	1.20e+05	1.51	y	49:31	0.98	43.1		-	-	*			
PCB-206	1.18e+05	1.32	y	51:23	1.00	45.1		-	-	*			
13C-PCB-206	2.61e+07	0.81	y	51:21	0.88	8460					84.6	3.19e+06	4.01e+06
PCB-209	1.63e+05	1.32	y	52:32	1.12	50.4		-	-	*			
13C-PCB-209	2.88e+07	1.23	y	52:31	0.97	8490					84.9	4.40e+06	3.64e+06
13C-PCB-194	3.52e+07	0.92	y	49:54	-	64.8							

Analyst: _____ Date: 8/20/18

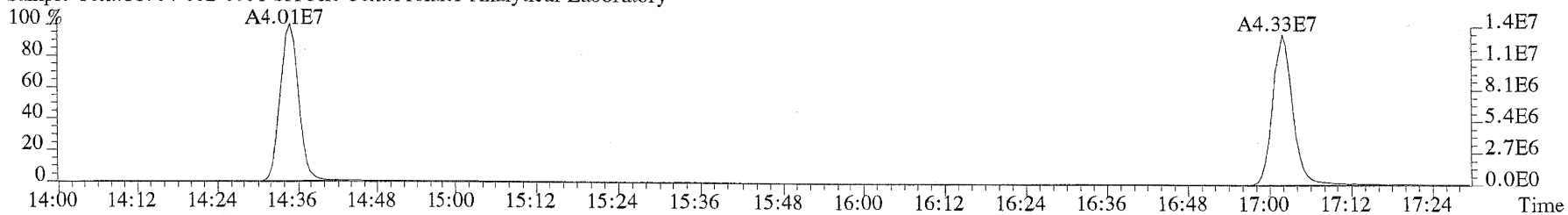
File:25JUL18Z #1-783 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



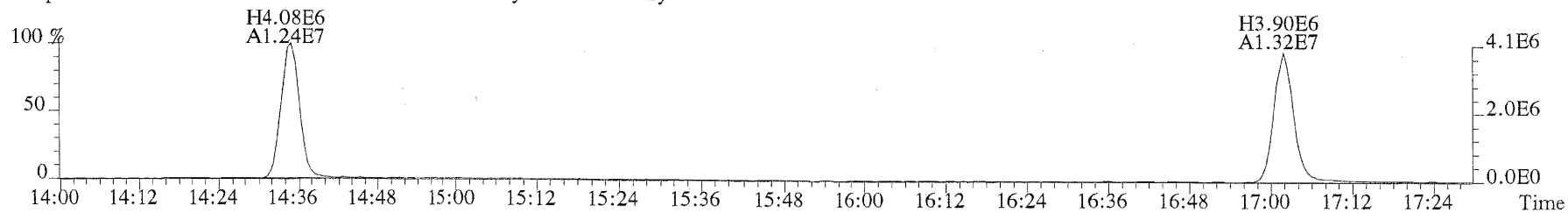
File:25JUL18Z #1-783 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



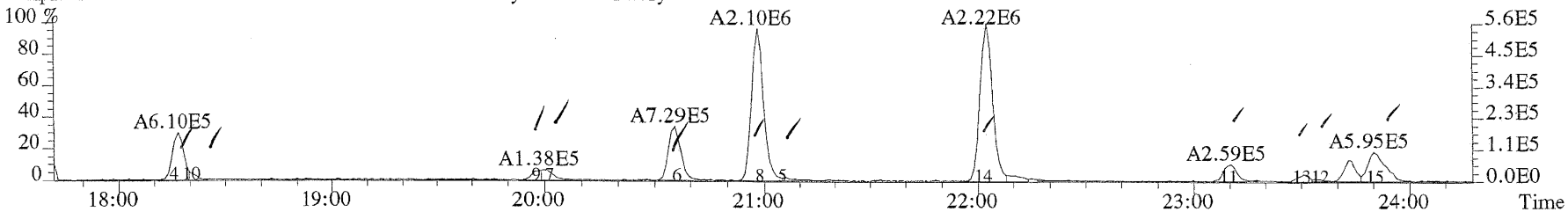
File:25JUL18Z #1-783 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



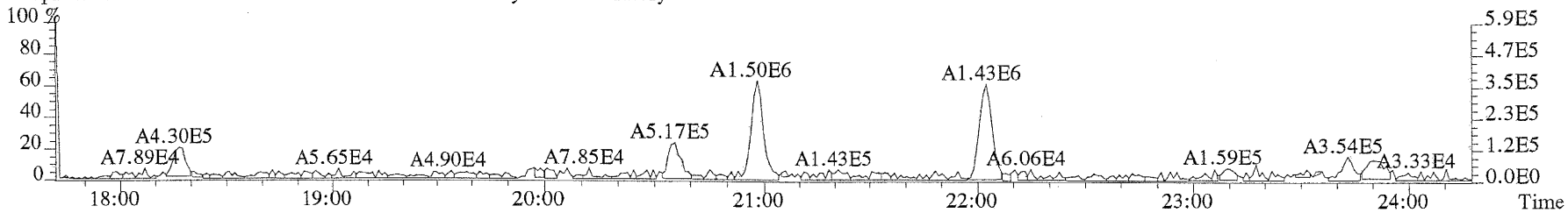
File:25JUL18Z #1-783 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



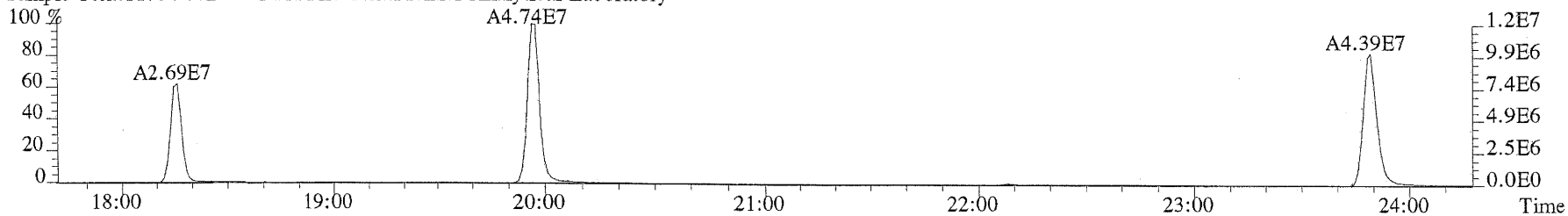
File:25JUL18Z #1-520 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



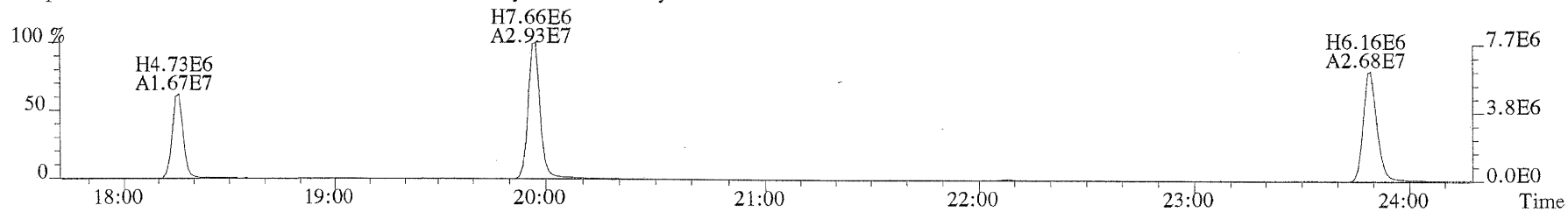
File:25JUL18Z #1-520 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



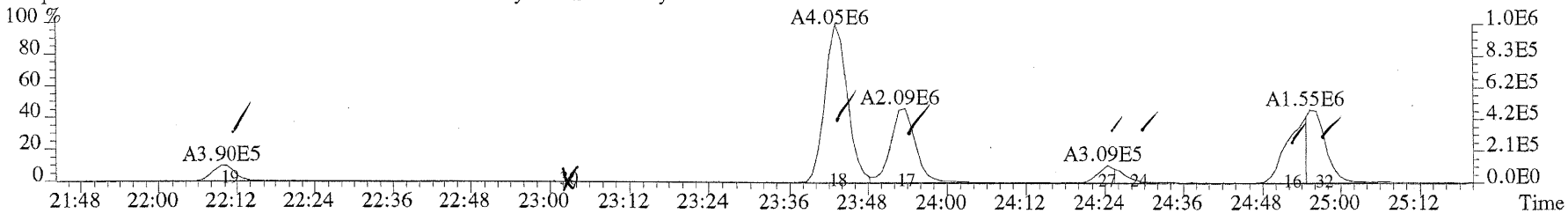
File:25JUL18Z #1-520 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



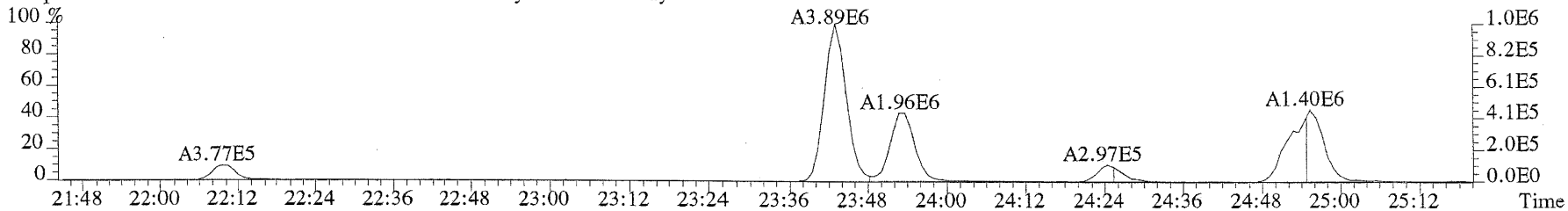
File:25JUL18Z #1-520 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



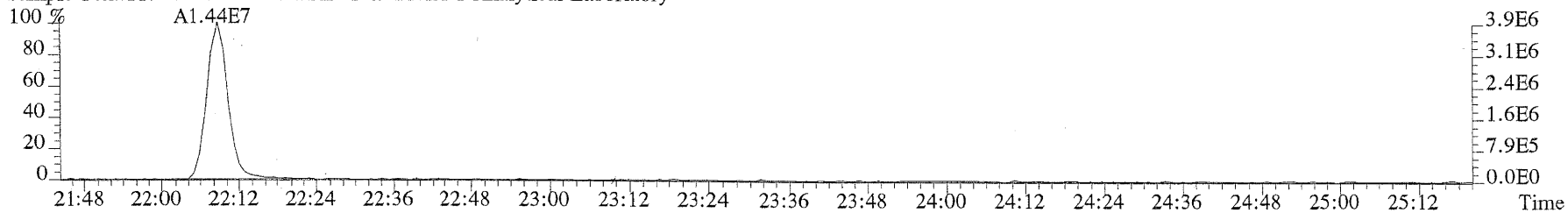
File:25JUL18Z #1-520 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



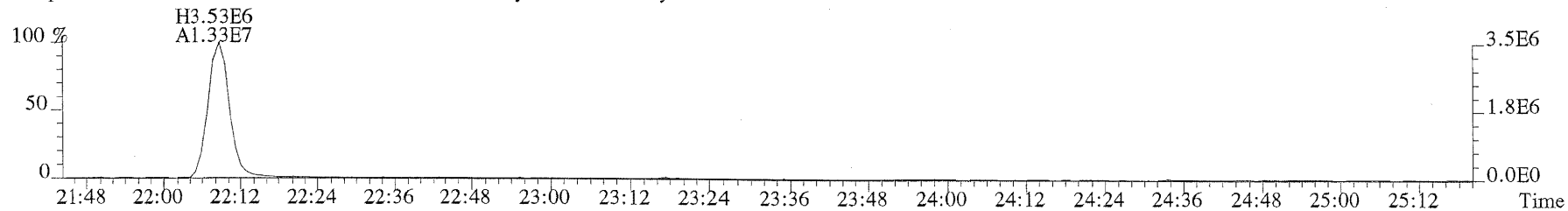
File:25JUL18Z #1-520 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



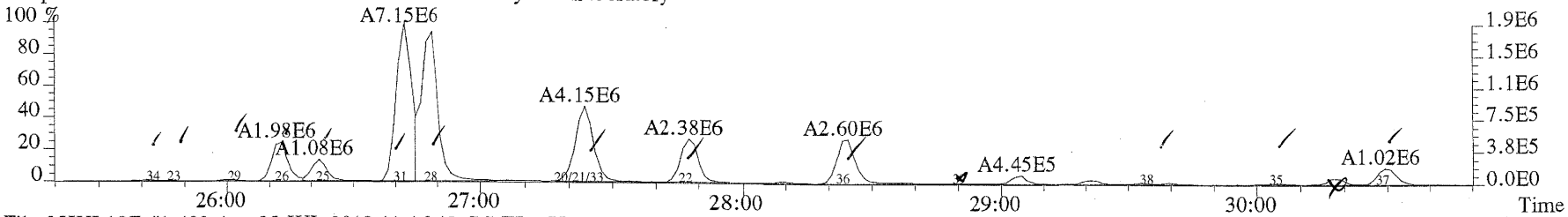
File:25JUL18Z #1-520 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



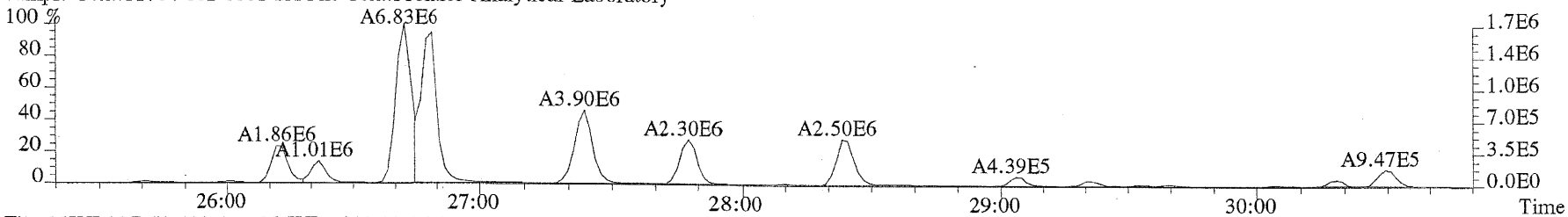
File:25JUL18Z #1-520 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



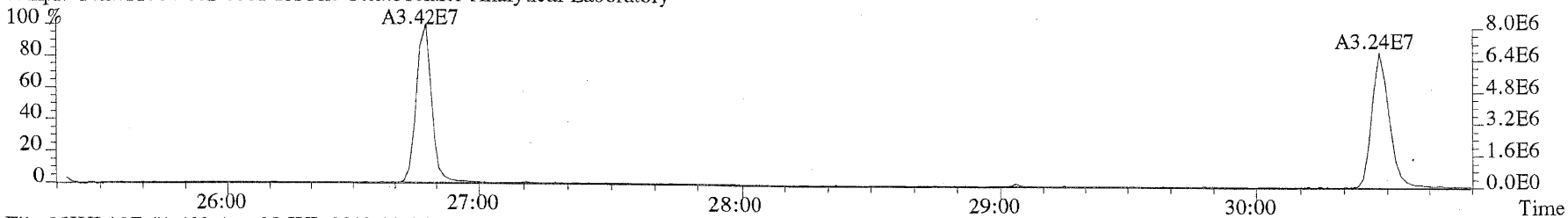
File:25JUL18Z #1-402 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



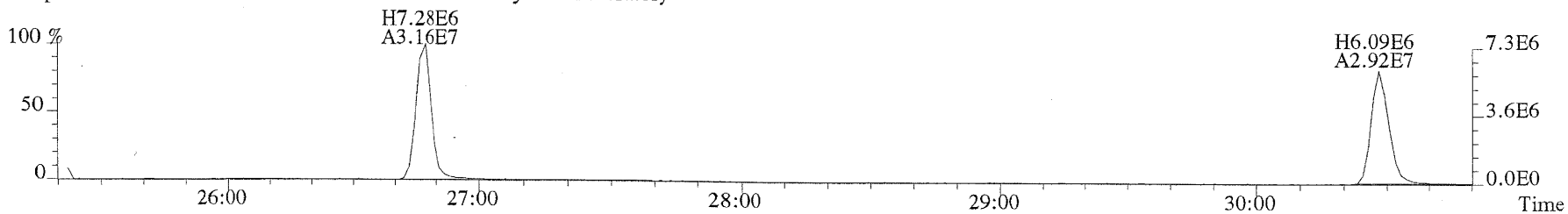
File:25JUL18Z #1-402 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



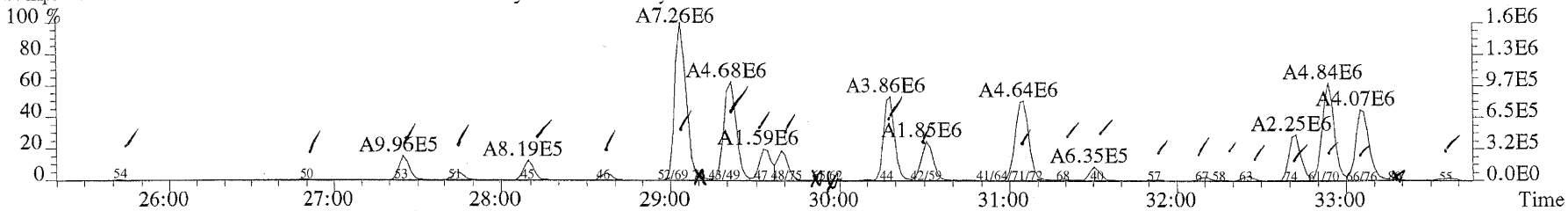
File:25JUL18Z #1-402 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



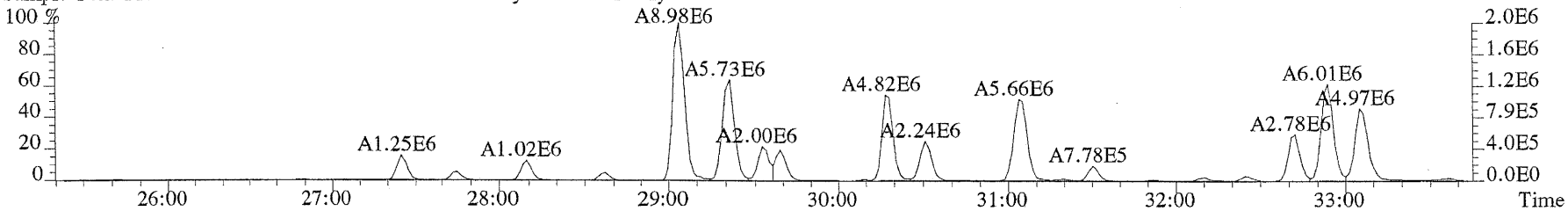
File:25JUL18Z #1-402 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



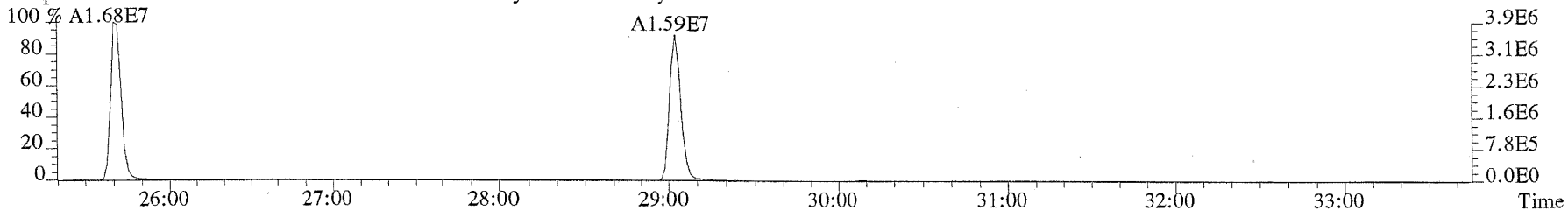
File:25JUL18Z #1-402 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



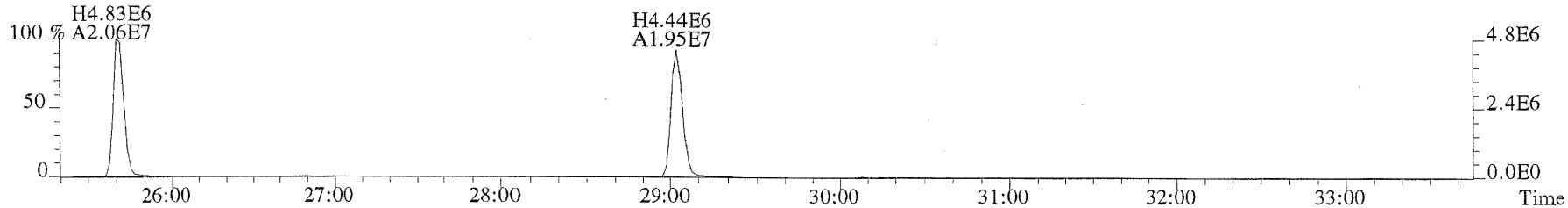
File:25JUL18Z #1-402 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



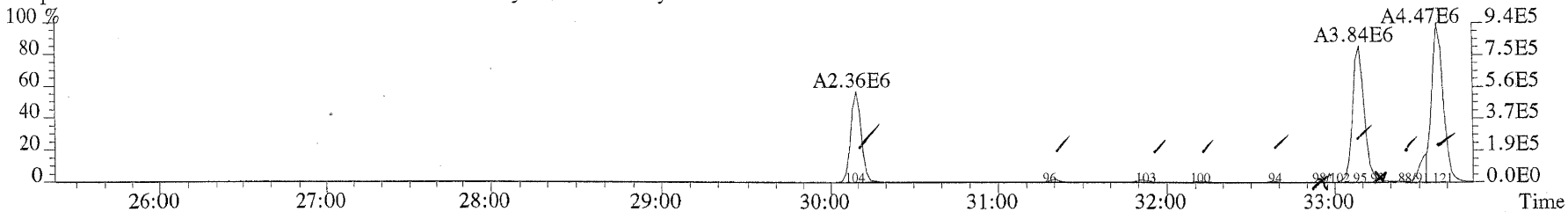
File:25JUL18Z #1-402 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-402 Acq:25-JUL-2018 11:16:43 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:11704-002-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-402 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 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:11704-002-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-402 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
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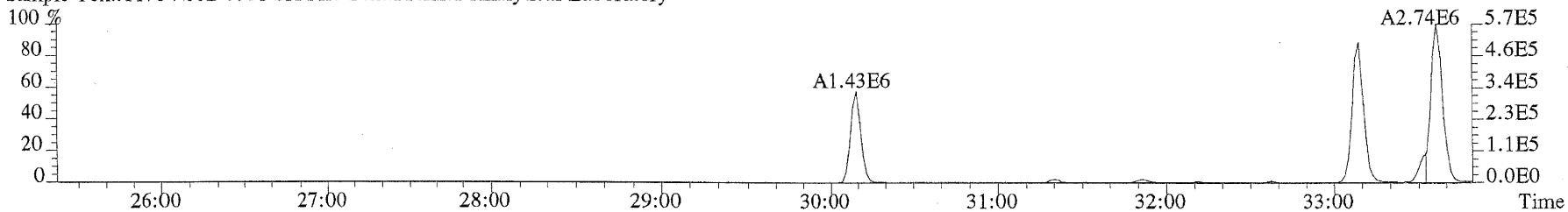
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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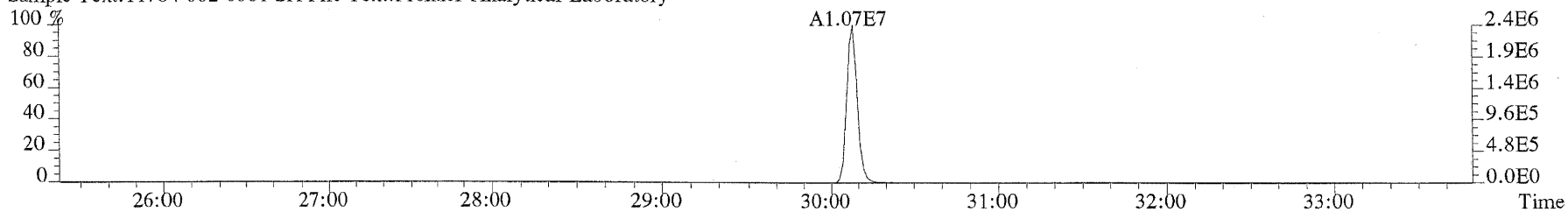
337.9207 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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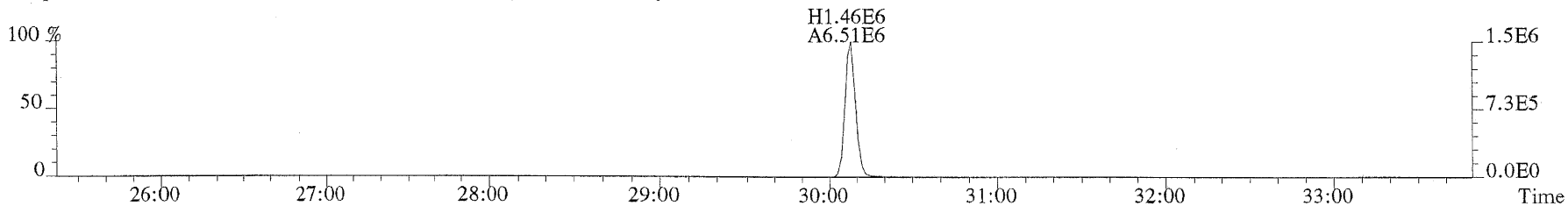
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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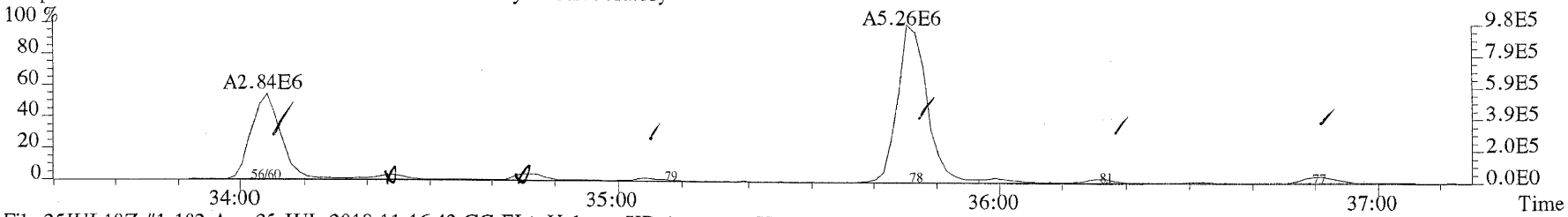

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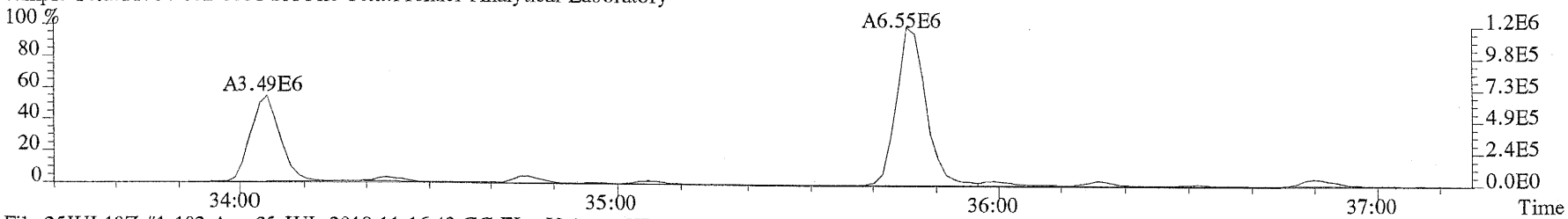

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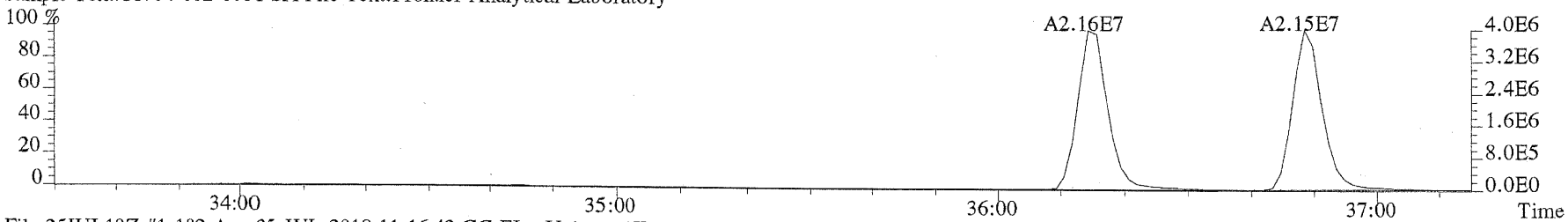
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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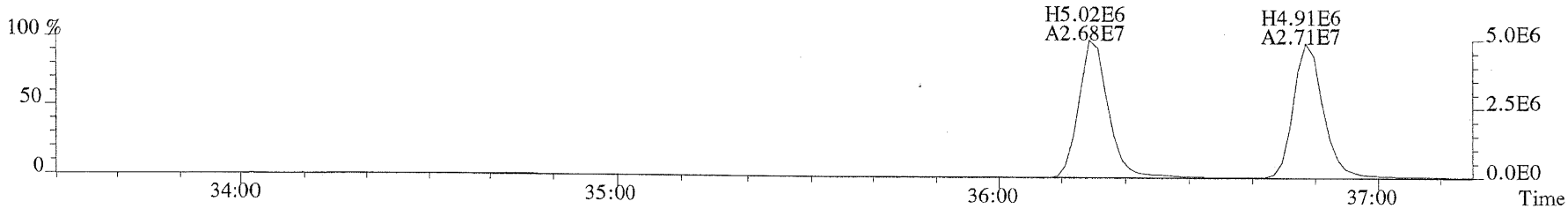
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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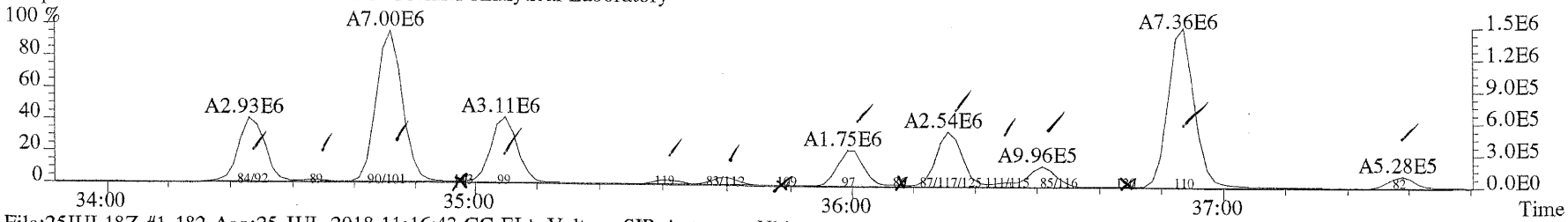
325.8804 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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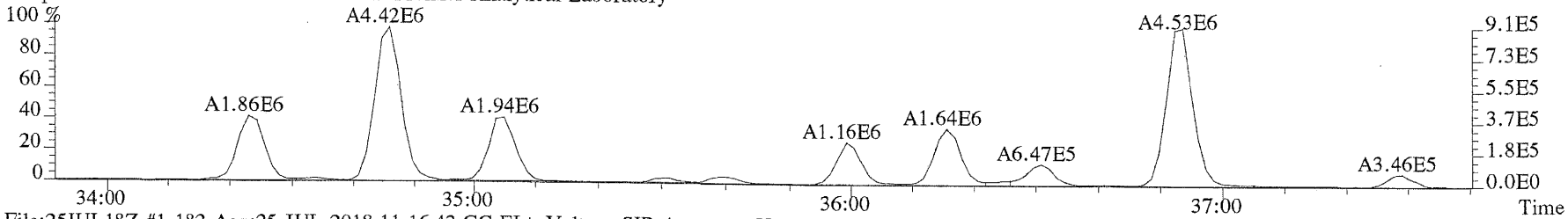
327.8775 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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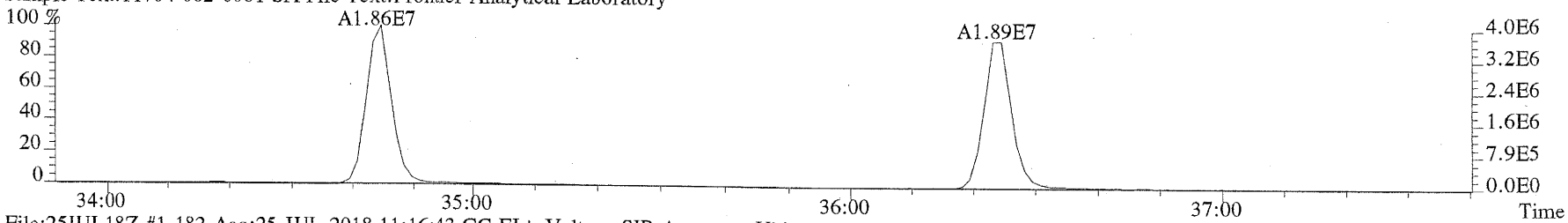
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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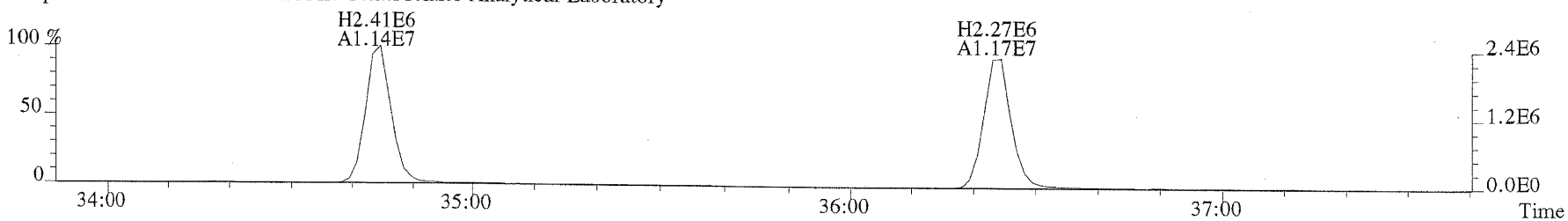
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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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
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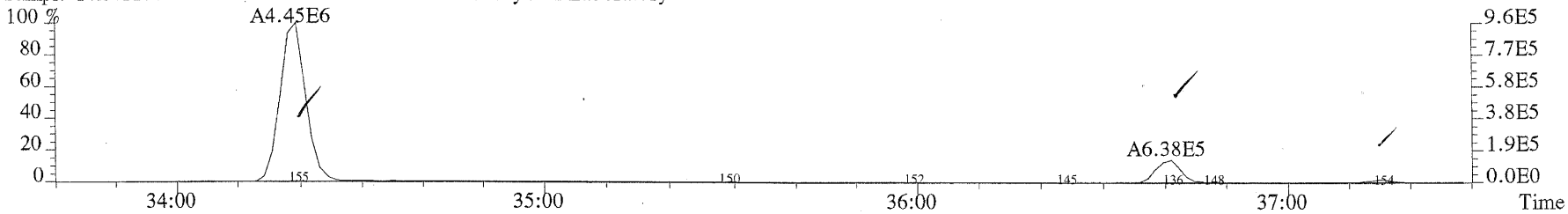

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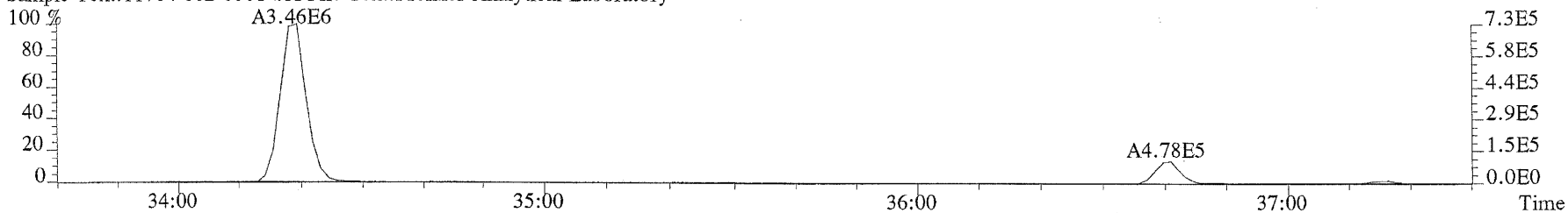
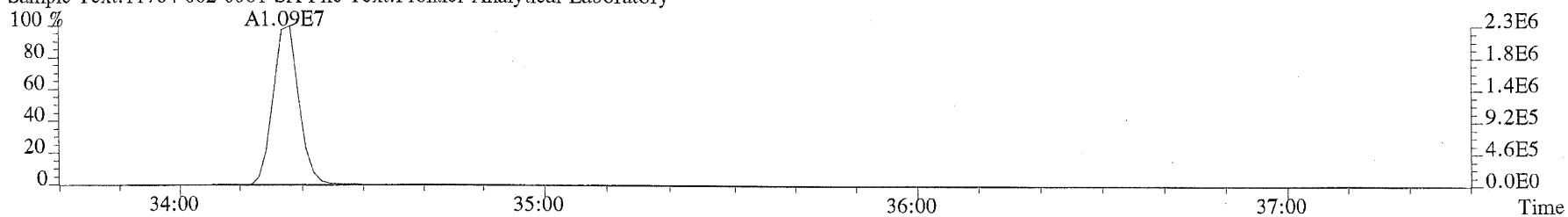
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-182 Acq:25-JUL-2018 11:16:43 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:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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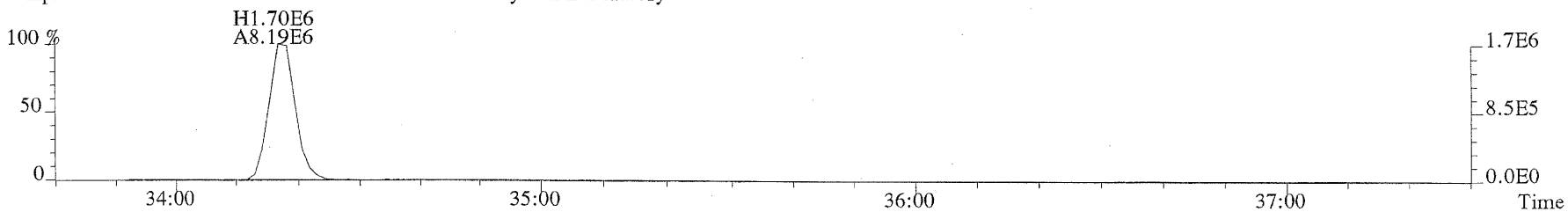
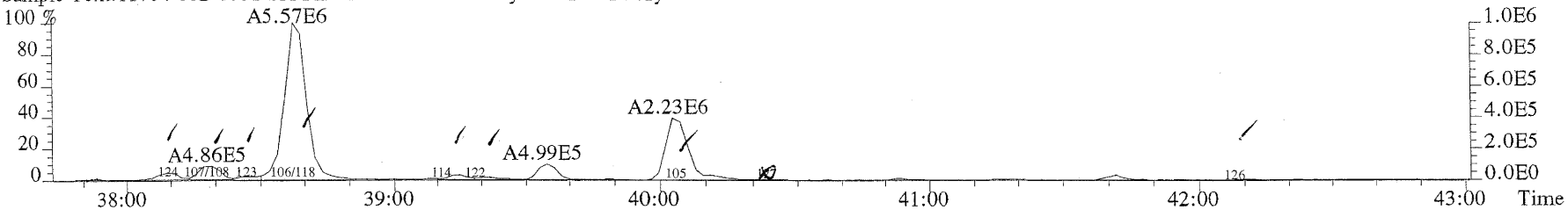
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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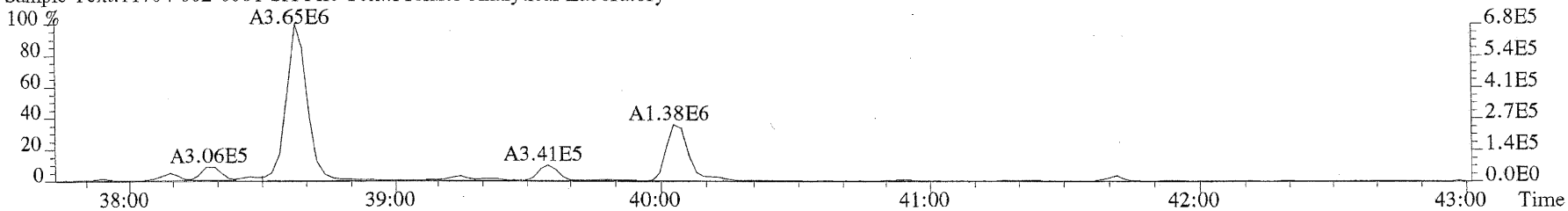
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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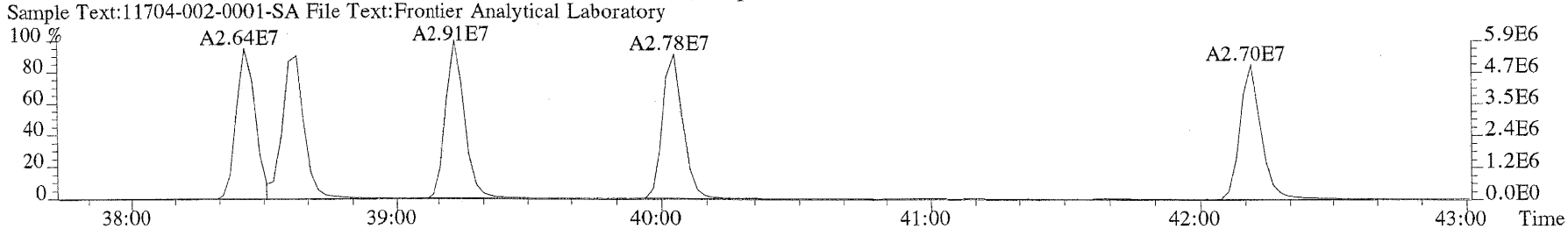

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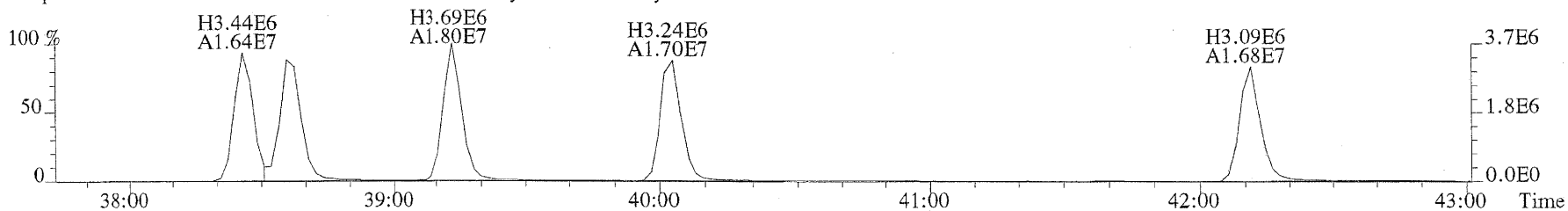

File:25JUL18Z #1-404 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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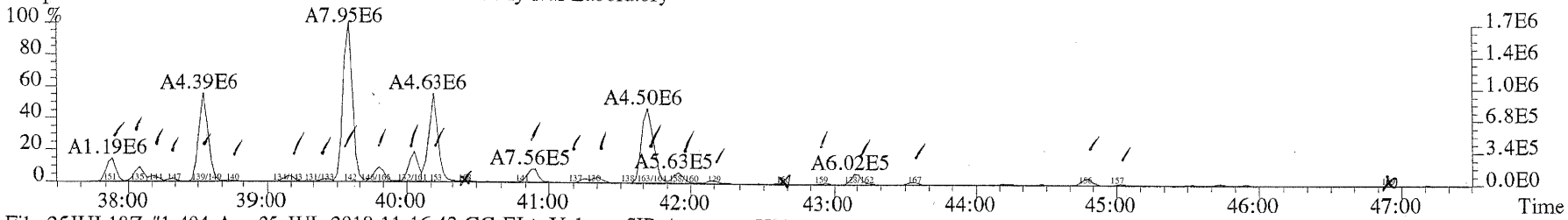

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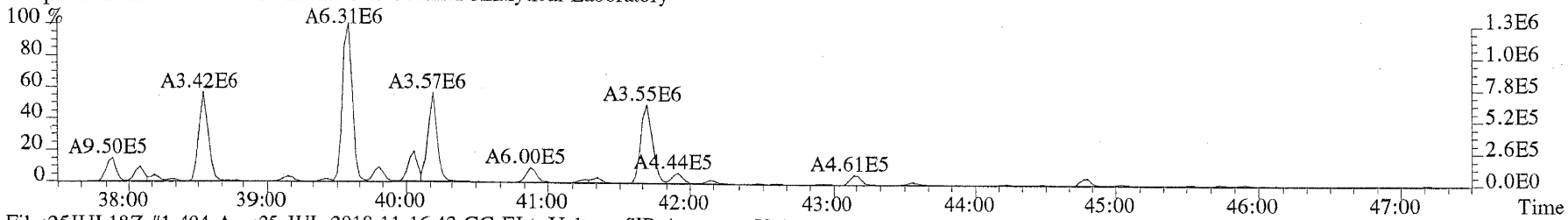

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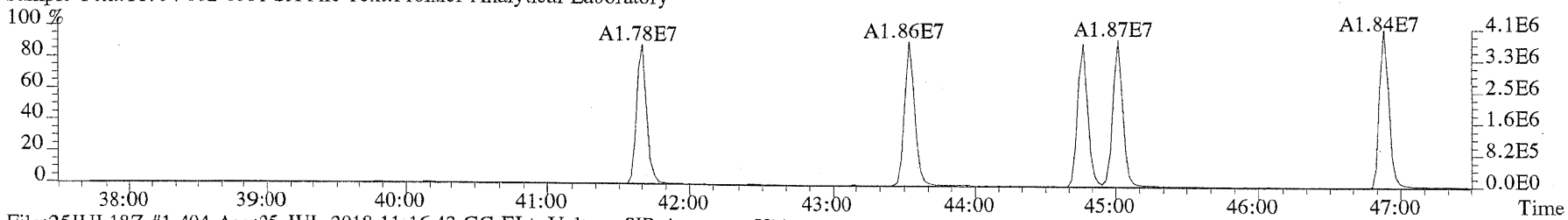
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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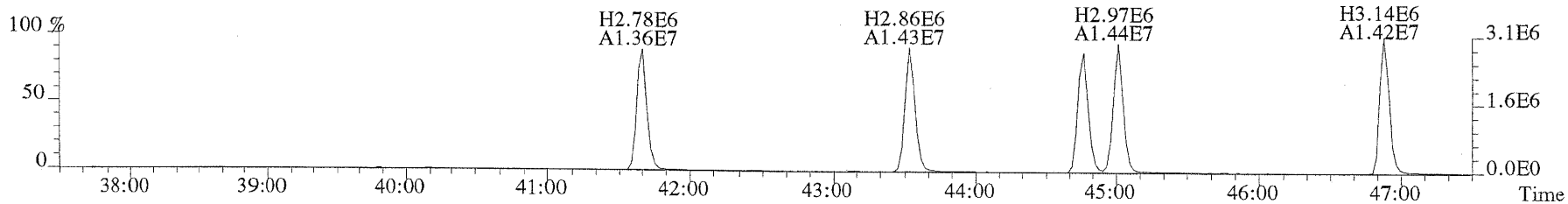
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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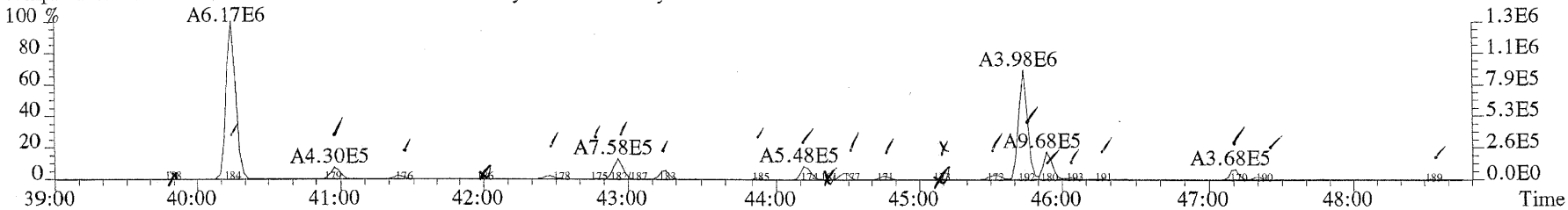
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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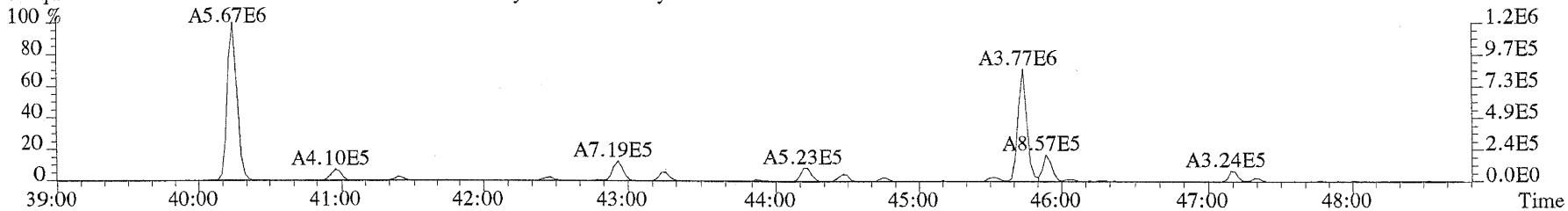
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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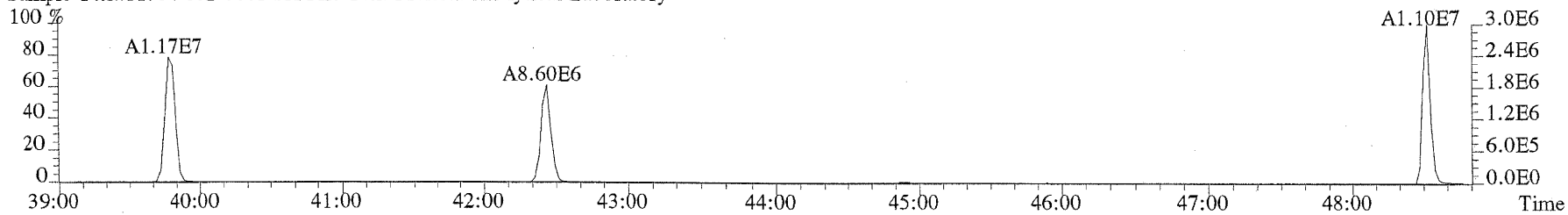
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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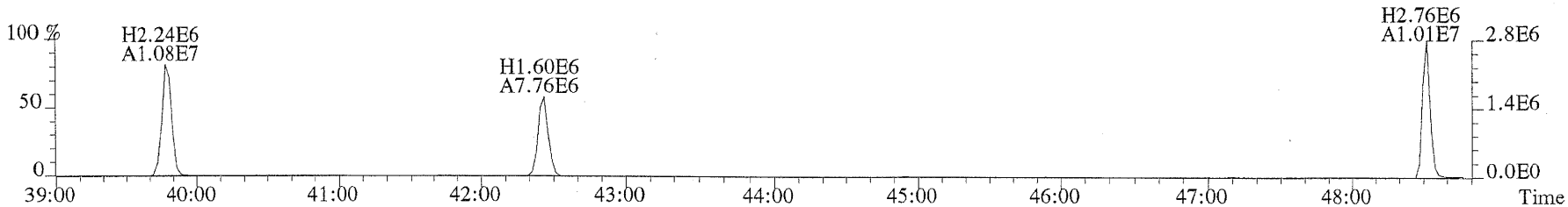
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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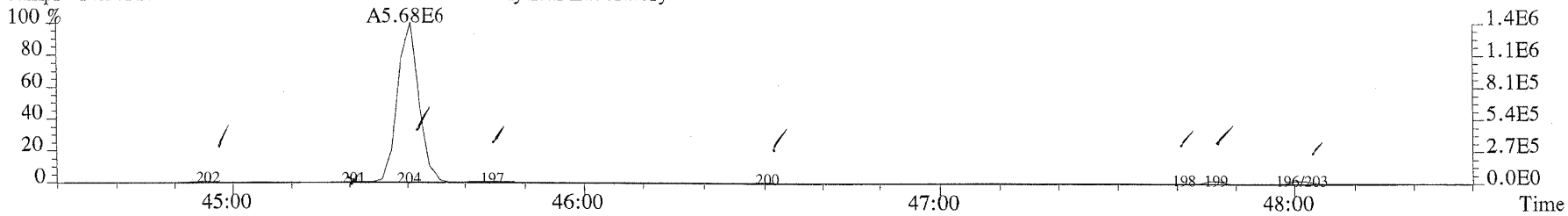
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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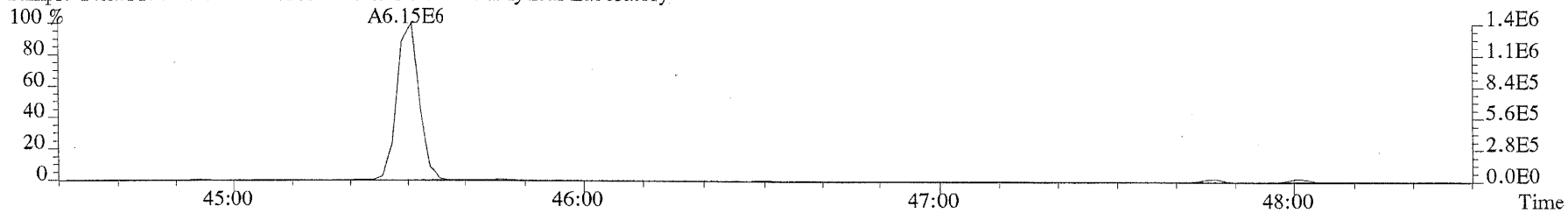

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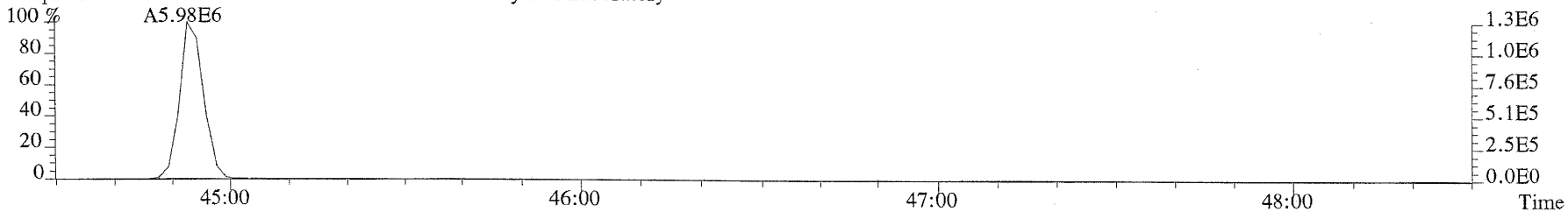
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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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
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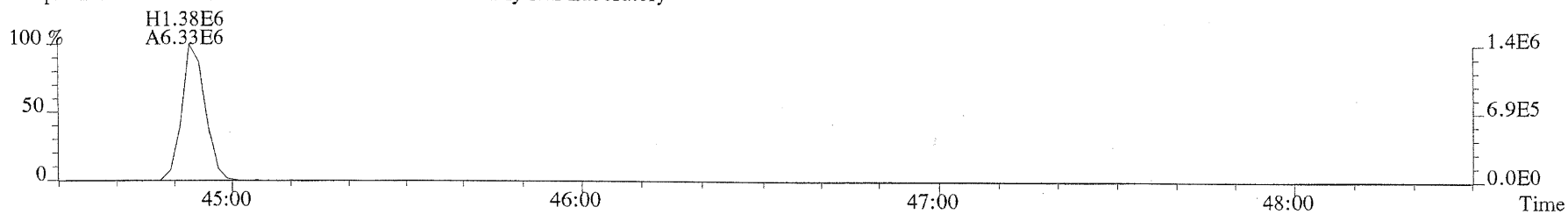
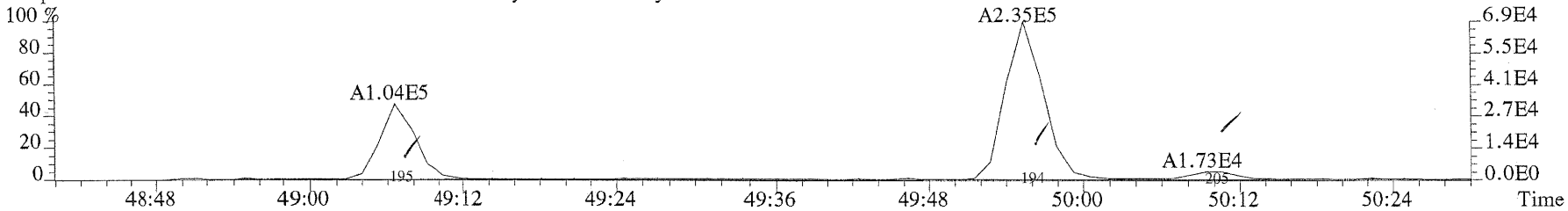


File:25JUL18Z #1-314 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



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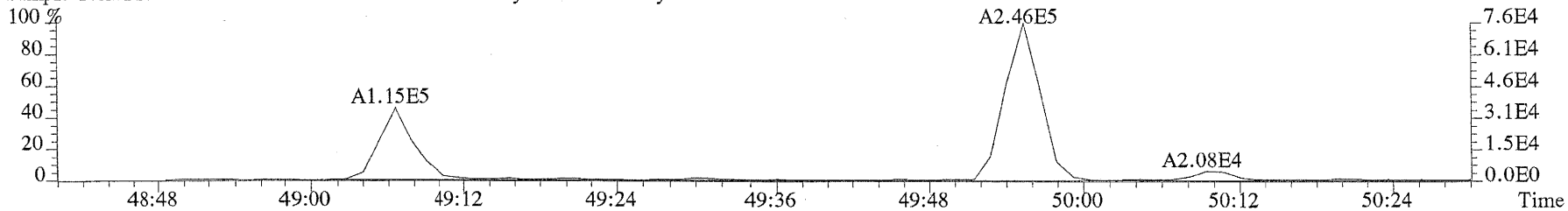
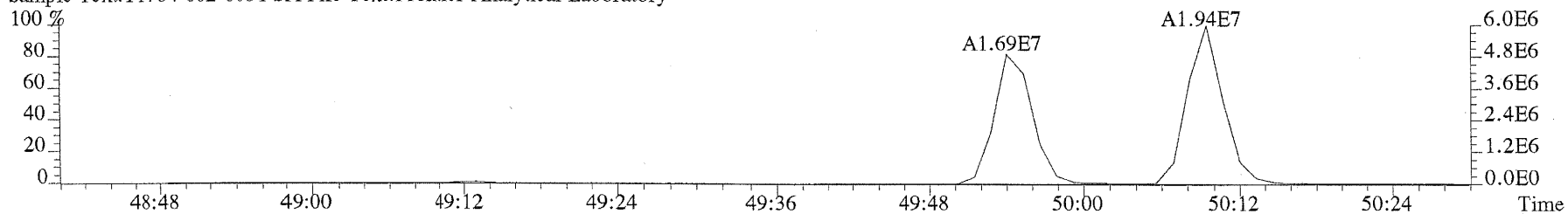
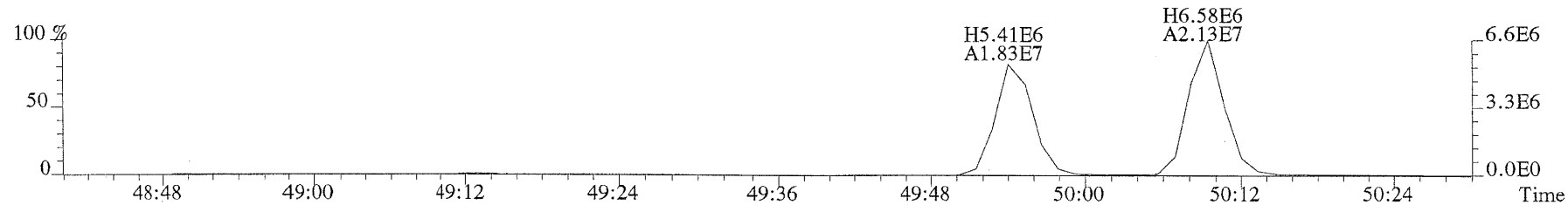
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



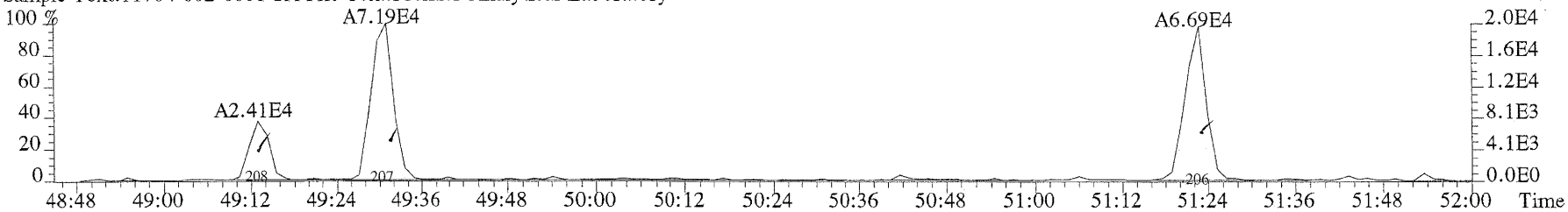
File:25JUL18Z #1-314 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



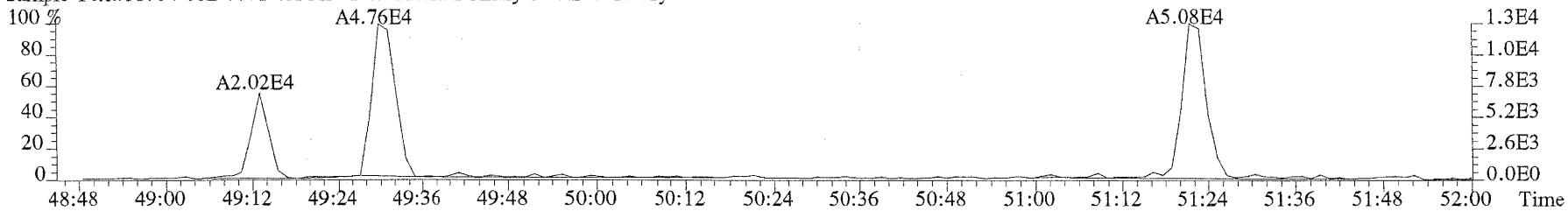
File:25JUL18Z #1-314 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



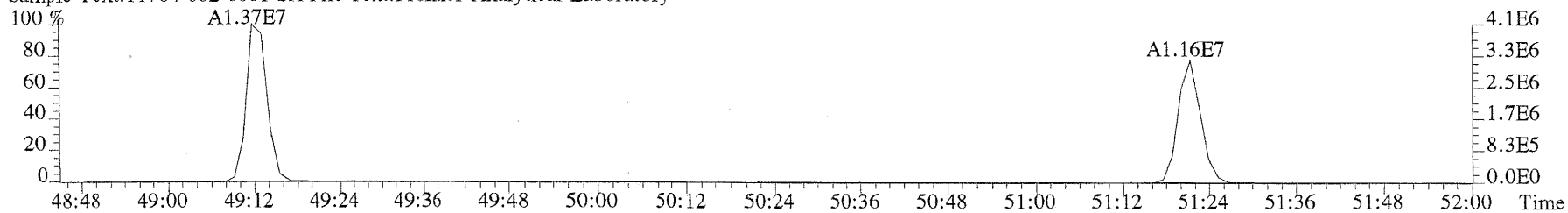
File:25JUL18Z #1-314 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



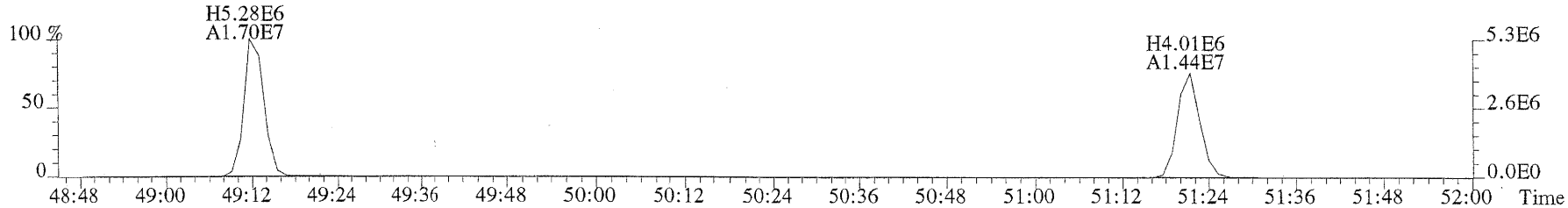
File:25JUL18Z #1-314 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



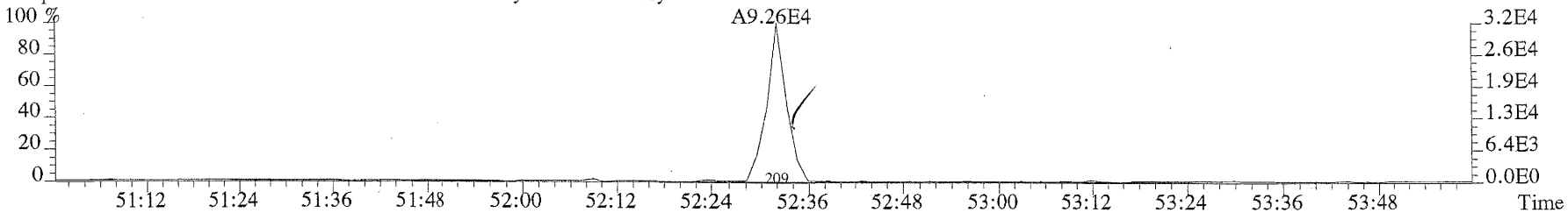
File:25JUL18Z #1-314 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



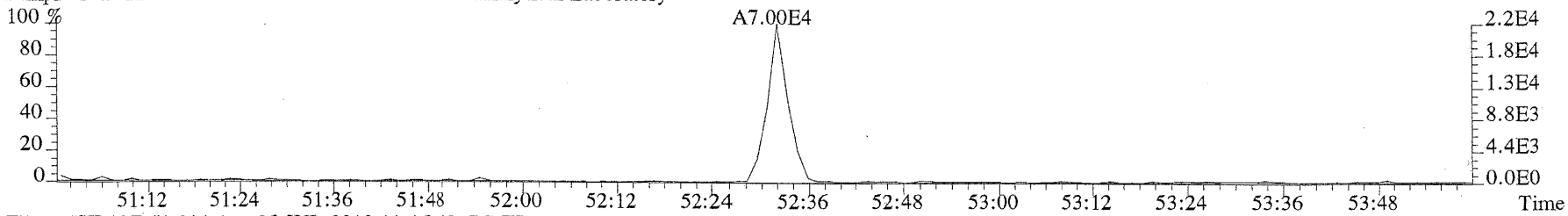
File:25JUL18Z #1-314 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



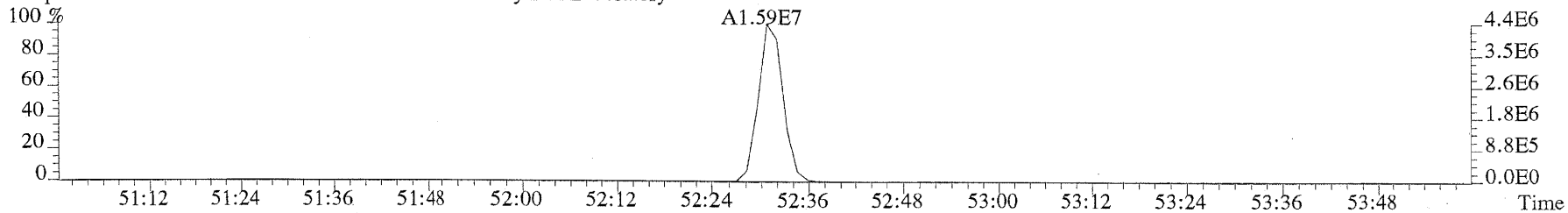
File:25JUL18Z #1-314 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



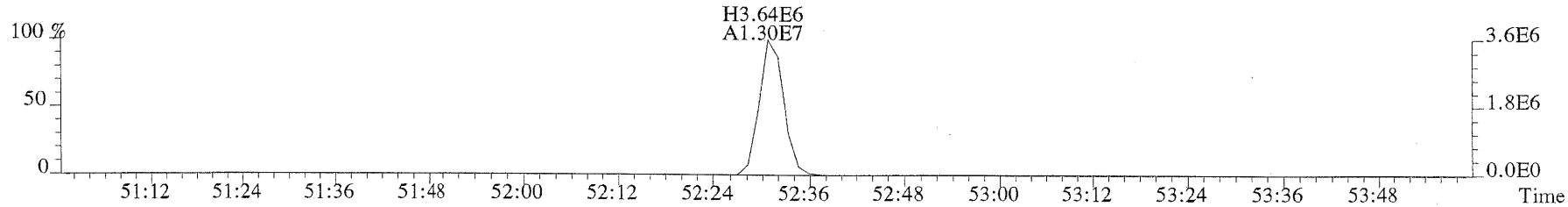
File:25JUL18Z #1-314 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-002-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
509.7229 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:11704-002-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 11:16:43 GC EI+ Voltage SIR Autospec-Ultima
511.7199 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:11704-002-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11704-003-0001-SA Filename: 25JUL18Z Sam:6 Acquired: 25-JUL-18 12:15:29 ICal: DAILY209FAL4-7-25-18
Client ID: LDW-Y1-SU-ENR-CB-S010 ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	4.17e+04	3.08 y	14:35	1.19	6.63	J	-	-	*			
13C-PCB-1	5.30e+07	3.20 y	14:34	0.80	9100					91.0	1.31e+07	4.08e+06
PCB-2	*	* n	NotFnd	1.10	*		950	880	2.48			
PCB-3	3.98e+04	2.69 y	17:03	1.17	5.96	J	-	-	*			
13C-PCB-3	5.69e+07	3.32 y	17:02	0.85	9290					92.9	1.26e+07	3.78e+06
PCB-4	8.80e+05	1.42 y	18:16	1.26	157		-	-	*			
PCB-10	9.95e+04	1.55 y	18:20	1.15	14.9	J	-	-	*			
13C-PCB-4	4.46e+07	1.62 y	18:15	0.63	9730					97.3	7.93e+06	4.79e+06
PCB-9	1.84e+05	1.49 y	19:57	1.28	24.7		-	-	*			
PCB-7	1.11e+05	1.56 y	20:01	1.30	14.7	J	-	-	*			
PCB-6	9.88e+05	1.51 y	20:35	1.28	133		-	-	*			
PCB-8	2.79e+06	1.34 y	20:57	1.28	375		-	-	*			
PCB-5	2.57e+05	1.44 y	22:09	1.29	34.2		-	-	*			
PCB-14	6.24e+06	1.48 y	22:02	1.23	873		-	-	*			
PCB-11	6.74e+05	1.46 y	23:10	1.20	96.3		-	-	*			
PCB-13	1.67e+05	1.47 y	23:31	1.24	23.1		-	-	*			
PCB-12	6.95e+04	1.47 y	23:33	1.25	9.53	J	-	-	*			
PCB-15	8.54e+05	1.48 y	23:49	1.12	106		-	-	*			
13C-PCB-15	7.18e+07	1.61 y	23:48	0.95	10400					104	1.03e+07	6.32e+06
PCB-19	6.22e+05	1.14 y	22:10	1.26	179		-	-	*			
PCB-30	*	* n	NotFnd	1.70	*		1190	516	3.46			
PCB-18	5.87e+06	1.06 y	23:42	1.21	1770		-	-	*			
PCB-17	2.80e+06	1.08 y	23:53	1.29	786		-	-	*			
PCB-27	3.67e+05	0.95 y	24:24	1.64	81.4		-	-	*			
PCB-24	3.79e+05	1.19 y	24:25	1.68	82.1		-	-	*			
PCB-16	1.81e+06	1.04 y	24:54	1.42	462		-	-	*			
PCB-32	2.37e+06	1.05 y	24:56	1.44	599		-	-	*			
13C-PCB-19	2.75e+07	1.08 y	22:08	0.40	9540					95.4	3.81e+06	3.46e+06
13C-PCB-9	7.23e+07	1.61 y	19:56	-	63.0							
PCB-34	1.08e+05	0.99 y	25:40	1.09	15.6	J	-	-	*			
PCB-23	*	* n	NotFnd	1.17	*		756	657	2.23			
PCB-29	8.65e+04	0.97 y	26:02	1.18	11.5	J	-	-	*			
PCB-26	2.71e+06	1.04 y	26:12	1.12	381		-	-	*			
PCB-25	1.49e+06	1.08 y	26:22	1.38	169		-	-	*			
PCB-31	1.08e+07	1.04 y	26:41	1.10	1530		-	-	*			
PCB-28	1.15e+07	1.07 y	26:47	1.34	1350		-	-	*			
PCB-20	5.92e+06	1.07 y	27:23	1.19	779		-	-	*		Co-elute PCB 21/33	
PCB-21	5.92e+06	1.07 y	27:23	1.19	779		-	-	*		Co-elute PCB 20/33	
PCB-33	5.92e+06	1.07 y	27:23	1.19	779		-	-	*		Co-elute PCB 20/21	
PCB-22	3.51e+06	1.03 y	27:48	1.17	471		-	-	*			
PCB-36	8.06e+06	1.03 y	28:23	1.09	1160		-	-	*			
PCB-39	*	* n	NotFnd	1.13	*		756	657	2.31			
PCB-38	1.13e+05	1.08 y	29:33	1.17	15.1	J	-	-	*			
PCB-35	1.24e+05	1.13 y	30:04	1.04	18.7	J	-	-	*			
PCB-37	1.51e+06	1.05 y	30:30	1.23	193		-	-	*			
13C-PCB-37	6.38e+07	1.09 y	30:28	1.68	11000					110	7.05e+06	6.45e+06

PCB-54	4.81e+04	0.88	y	25:43	1.19	10.7	J	-	-	*			
PCB-50	5.32e+04	0.78	y	26:48	0.90	15.7	J	-	-	*			
PCB-53	1.57e+06	0.78	y	27:25	0.91	457		-	-	*			
PCB-51	5.22e+05	0.79	y	27:44	0.93	149		-	-	*			
PCB-45	1.36e+06	0.79	y	28:08	0.78	458		-	-	*			
PCB-46	4.86e+05	0.86	y	28:36	0.77	168		-	-	*			
PCB-52	1.12e+07	0.79	y	29:04	1.08	2740		-	-	*	Co-elute PCB 69		
PCB-69	1.12e+07	0.79	y	29:04	1.08	2740		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.19	*		960	990	4.25			
PCB-43	7.05e+06	0.81	y	29:20	0.88	2130		-	-	*	Co-elute PCB 49		
PCB-49	7.05e+06	0.81	y	29:20	0.88	2130		-	-	*	Co-elute PCB 43		
PCB-47	2.23e+06	0.81	y	29:33	1.15	511		-	-	*			
PCB-48	2.18e+06	0.82	y	29:39	1.06	543		-	-	*	Co-elute PCB 75		
PCB-75	2.18e+06	0.82	y	29:39	1.06	543		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.09	*		960	990	4.62			
PCB-62	*	*	n	NotFnd	1.15	*		960	990	4.41			
PCB-44	5.93e+06	0.81	y	30:17	0.82	1920		-	-	*			
PCB-42	2.77e+06	0.84	y	30:31	1.06	689		-	-	*	Co-elute PCB 59		
PCB-59	2.77e+06	0.84	y	30:31	1.06	689		-	-	*	Co-elute PCB 42		
PCB-72	7.00e+06	0.80	y	31:04	1.15	1620		-	-	*	Co-elute PCB 41/71/64		
PCB-41	7.00e+06	0.80	y	31:04	1.15	1620		-	-	*	Co-elute PCB 72/71/64		
PCB-71	7.00e+06	0.80	y	31:04	1.15	1620		-	-	*	Co-elute PCB 72/41/64		
PCB-64	7.00e+06	0.80	y	31:04	1.15	1620		-	-	*	Co-elute PCB 72/41/71		
PCB-68	1.73e+05	0.79	y	31:19	1.25	36.6		-	-	*			
PCB-40	9.82e+05	0.76	y	31:30	0.71	368		-	-	*			
PCB-57	6.54e+04	0.74	y	31:53	1.13	15.3	J	-	-	*			
PCB-67	2.65e+05	0.79	y	32:10	1.12	62.7		-	-	*			
PCB-58	3.54e+04	0.78	y	32:15	1.18	7.92	J	-	-	*			
PCB-63	3.36e+05	0.79	y	32:25	1.14	78.4		-	-	*			
PCB-74	3.38e+06	0.80	y	32:41	1.21	739		-	-	*			
PCB-61	7.37e+06	0.81	y	32:53	1.23	1580		-	-	*	Co-elute PCB 70		
PCB-70	7.37e+06	0.81	y	32:53	1.23	1580		-	-	*	Co-elute PCB 61		
PCB-76	6.27e+06	0.79	y	33:05	1.21	1380		-	-	*	Co-elute PCB 66		
PCB-66	6.27e+06	0.79	y	33:05	1.21	1380		-	-	*	Co-elute PCB 76		
PCB-80	7.53e+04	0.85	y	33:19	1.30	15.3	J	-	-	*			
PCB-55	3.70e+05	0.84	y	33:37	1.20	81.9		-	-	*			
13C-PCB-54	3.78e+07	0.83	y	25:40	1.11	9810					98.1	4.40e+06	5.23e+06
PCB-104	4.98e+06	1.64	y	30:09	1.35	2110		-	-	*			
PCB-96	7.95e+04	1.51	y	31:19	1.22	37.2		-	-	*			
PCB-103	8.24e+04	1.72	y	31:51	1.05	45.1		-	-	*			
PCB-100	4.66e+04	1.64	y	32:11	1.07	24.9		-	-	*			
PCB-94	3.11e+04	1.62	y	32:37	0.90	19.8	J	-	-	*			
PCB-98	*	*	n	NotFnd	0.54	*		364	296	7.95	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.54	*		364	296	7.95	Co-elute PCB 98		
PCB-95	4.14e+06	1.60	y	33:08	1.08	2190		-	-	*			
PCB-93	*	*	n	NotFnd	0.98	*		364	296	4.37			
PCB-88	3.66e+05	1.56	y	33:30	1.06	198		-	-	*	Co-elute PCB 91		
PCB-91	3.66e+05	1.56	y	33:30	1.06	198		-	-	*	Co-elute PCB 88		
PCB-121	9.28e+06	1.61	y	33:37	1.10	4840		-	-	*			
13C-PCB-104	1.75e+07	1.63	y	30:07	0.50	10000					100	2.41e+06	1.44e+06
13C-PCB-28	6.72e+07	1.07	y	26:46	1.97	9870					98.7	7.70e+06	7.27e+06
13C-PCB-52	3.46e+07	0.81	y	29:01	-	61.7							

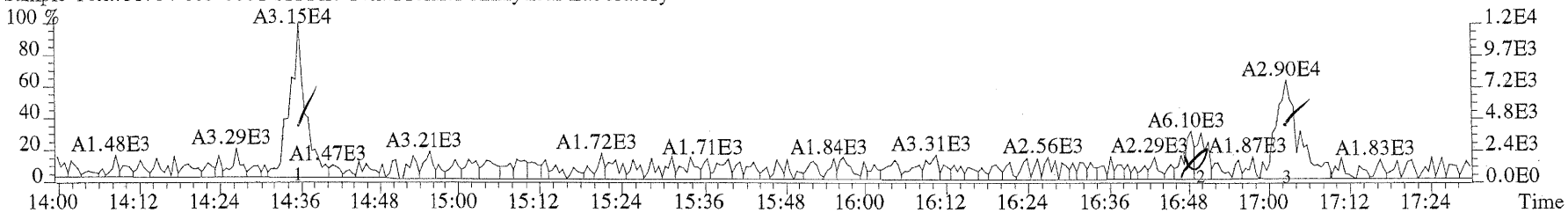
PCB-56	4.24e+06	0.78	y	34:03	1.08	799		-	-	*		Co-elute PCB 60
PCB-60	4.24e+06	0.78	y	34:03	1.08	799		-	-	*		Co-elute PCB 56
PCB-79	1.26e+05	0.75	y	35:05	1.14	22.6		-	-	*		
PCB-78	1.63e+07	0.77	y	35:45	1.09	3030		-	-	*		
PCB-81	2.62e+05	0.77	y	36:16	1.14	46.9		-	-	*		
13C-PCB-81	4.89e+07	0.82	y	36:15	1.57	10800					108	4.24e+06 5.19e+06
PCB-77	4.56e+05	0.83	y	36:50	1.11	83.3		-	-	*		
13C-PCB-77	4.94e+07	0.82	y	36:49	1.61	10600					106	4.03e+06 4.96e+06
PCB-155	9.81e+06	1.29	y	34:18	1.24	4110		-	-	*		
PCB-150	*	*	n	NotFnd	1.13	*		416	132	2.85		
PCB-152	*	*	n	NotFnd	1.06	*		416	132	3.03		
PCB-145	*	*	n	NotFnd	1.10	*		416	132	2.91		
PCB-136	7.06e+05	1.28	y	36:40	1.06	346		-	-	*		
PCB-148	*	*	n	NotFnd	0.84	*		416	132	3.82		
PCB-154	8.06e+04	1.36	y	37:14	0.97	42.9		-	-	*		
13C-PCB-155	1.93e+07	1.30	y	34:17	0.67	9910					99.1	2.42e+06 1.86e+06
13C-PCB-111	3.19e+07	1.64	y	36:23	1.16	9530					95.3	4.02e+06 2.45e+06
13C-PCB-101	2.89e+07	1.64	y	34:44	-	61.1						
PCB-84	3.35e+06	1.60	y	34:23	0.61	1210		-	-	*		Co-elute PCB 92
PCB-92	3.35e+06	1.60	y	34:23	0.61	1210		-	-	*		Co-elute PCB 84
PCB-89	1.14e+05	1.35	y	34:33	0.58	43.4		-	-	*		
PCB-90	7.54e+06	1.56	y	34:45	0.68	2450		-	-	*		Co-elute PCB 101
PCB-101	7.54e+06	1.56	y	34:45	0.68	2450		-	-	*		Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.77	*		687	611	4.77		
PCB-99	3.45e+06	1.61	y	35:04	0.75	1020		-	-	*		
PCB-119	2.42e+05	1.47	y	35:30	0.81	65.6		-	-	*		
PCB-83	3.72e+05	1.45	y	35:39	0.69	119		-	-	*		Co-elute PCB 112
PCB-112	3.72e+05	1.45	y	35:39	0.69	119		-	-	*		Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.82	*		687	611	4.46		
PCB-97	1.96e+06	1.54	y	35:59	0.73	595		-	-	*		
PCB-86	*	*	n	NotFnd	0.70	*		687	611	5.20		
PCB-125	2.81e+06	1.53	y	36:16	0.72	856		-	-	*		Co-elute PCB 87/117
PCB-87	2.81e+06	1.53	y	36:16	0.72	856		-	-	*		Co-elute PCB 125/117
PCB-117	2.81e+06	1.53	y	36:16	0.72	856		-	-	*		Co-elute PCB 125/87
PCB-111	1.53e+05	1.64	y	36:25	0.99	34.0		-	-	*		Co-elute PCB 115
PCB-115	1.53e+05	1.64	y	36:25	0.99	34.0		-	-	*		Co-elute PCB 111
PCB-85	1.11e+06	1.62	y	36:31	0.71	345		-	-	*		Co-elute PCB 116
PCB-116	1.11e+06	1.62	y	36:31	0.71	345		-	-	*		Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.81	*		687	611	4.50		
PCB-110	7.92e+06	1.58	y	36:52	0.96	1820		-	-	*		
PCB-82	6.04e+05	1.63	y	37:28	0.50	267		-	-	*		
PCB-124	2.66e+05	1.59	y	38:10	0.91	64.6		-	-	*		
PCB-108	4.93e+05	1.61	y	38:18	1.07	101		-	-	*		Co-elute PCB 107
PCB-107	4.93e+05	1.61	y	38:18	1.07	101		-	-	*		Co-elute PCB 108
PCB-123	1.51e+05	1.50	y	38:29	1.23	28.6		-	-	*		
13C-PCB-123	4.29e+07	1.56	y	38:26	1.40	10400					104	5.13e+06 3.34e+06
PCB-118	5.87e+06	1.51	y	38:37	1.03	1190		-	-	*		Co-elute PCB 106
PCB-106	5.87e+06	1.51	y	38:37	1.03	1190		-	-	*		Co-elute PCB 118
13C-PCB-118	4.78e+07	1.61	y	38:36	1.53	10500					105	5.79e+06 3.56e+06
PCB-114	1.76e+05	1.50	y	39:15	1.07	36.0		-	-	*		
13C-PCB-114	4.57e+07	1.61	y	39:14	1.46	10500					105	5.44e+06 3.31e+06
PCB-122	7.46e+04	1.55	y	39:22	1.10	15.0	J	-	-	*		
PCB-105	2.36e+06	1.59	y	40:03	1.08	488		-	-	*		
13C-PCB-105	4.49e+07	1.63	y	40:01	1.44	10500					105	5.44e+06 3.44e+06

PCB-127	*	*	n	NotFnd	0.99	*		1090	950	5.81				
PCB-126	*	*	n	NotFnd	1.12	*		1090	950	5.93				
13C-PCB-126	4.36e+07	1.61	y	42:10	1.35	10900					109	4.72e+06	2.98e+06	
PCB-151	1.38e+06	1.26	y	37:51	0.85	498		-	-	*				
PCB-135	8.05e+05	1.23	y	38:03	0.82	300		-	-	*				
PCB-144	2.86e+05	1.26	y	38:11	0.93	94.2		-	-	*				
PCB-147	1.28e+05	1.41	y	38:18	0.92	42.5		-	-	*				
PCB-139	4.81e+06	1.31	y	38:33	0.98	1510		-	-	*		Co-elute PCB 149		
PCB-149	4.81e+06	1.31	y	38:33	0.98	1510		-	-	*		Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	0.95	*		652	592	5.18				
PCB-143	2.97e+05	1.29	y	39:09	0.90	101		-	-	*		Co-elute PCB 134		
PCB-134	2.97e+05	1.29	y	39:09	0.90	101		-	-	*		Co-elute PCB 143		
PCB-131	1.32e+05	1.32	y	39:25	0.90	44.6		-	-	*		Co-elute PCB 133		
PCB-133	1.32e+05	1.32	y	39:25	0.90	44.6		-	-	*		Co-elute PCB 131		
PCB-142	1.76e+07	1.26	y	39:33	0.77	6970		-	-	*				
PCB-165	8.51e+05	1.32	y	39:48	1.05	248		-	-	*		Co-elute PCB 146		
PCB-146	8.51e+05	1.32	y	39:48	1.05	248		-	-	*		Co-elute PCB 165		
PCB-161	1.77e+06	1.33	y	40:01	1.00	543		-	-	*		Co-elute PCB 132		
PCB-132	1.77e+06	1.33	y	40:01	1.00	543		-	-	*		Co-elute PCB 161		
PCB-153	5.03e+06	1.27	y	40:11	1.01	1520		-	-	*				
PCB-168	*	*	n	NotFnd	1.15	*		652	592	4.28				
PCB-141	8.23e+05	1.18	y	40:52	0.89	284		-	-	*				
PCB-137	1.88e+05	1.25	y	41:16	0.90	64.0		-	-	*				
PCB-130	2.49e+05	1.29	y	41:20	0.76	100		-	-	*				
PCB-138	4.89e+06	1.27	y	41:40	1.17	1280		-	-	*		Co-elute PCB 163/164		
PCB-163	4.89e+06	1.27	y	41:40	1.17	1280		-	-	*		Co-elute PCB 138/164		
PCB-164	4.89e+06	1.27	y	41:40	1.17	1280		-	-	*		Co-elute PCB 138/163		
PCB-158	5.96e+05	1.22	y	41:55	1.18	154		-	-	*		Co-elute PCB 160		
PCB-160	5.96e+05	1.22	y	41:55	1.18	154		-	-	*		Co-elute PCB 158		
PCB-129	1.76e+05	1.40	y	42:08	0.77	70.1		-	-	*				
PCB-166	*	*	n	NotFnd	1.08	*		652	592	4.58				
PCB-159	7.38e+04	1.10	y	42:54	1.19	18.9	J	-	-	*				
PCB-128	6.42e+05	1.25	y	43:09	0.98	200		-	-	*		Co-elute PCB 162		
PCB-162	6.42e+05	1.25	y	43:09	0.98	200		-	-	*		Co-elute PCB 128		
PCB-167	1.33e+05	1.29	y	43:32	1.05	38.3		-	-	*				
13C-PCB-167	3.29e+07	1.30	y	43:32	1.12	9870					98.7	3.61e+06	2.67e+06	
PCB-156	3.68e+05	1.22	y	44:46	1.11	102		-	-	*				
13C-PCB-156	3.25e+07	1.30	y	44:45	1.07	10200					102	3.53e+06	2.72e+06	
PCB-157	9.12e+04	1.21	y	45:01	1.14	24.3		-	-	*				
13C-PCB-157	3.28e+07	1.28	y	44:59	1.12	9900					99.0	3.41e+06	2.69e+06	
PCB-169	*	*	n	NotFnd	1.07	*		652	592	4.44				
13C-PCB-169	3.24e+07	1.30	y	46:51	1.08	10100					101	3.65e+06	2.90e+06	

PCB-188	*	*	n	NotFnd	1.21	*		652	460	4.61			
13C-PCB-188	2.22e+07	1.08	y	39:47	0.80	9370					93.7	2.58e+06	2.40e+06
PCB-184	1.44e+07	1.08	y	40:13	1.25	5330		-	-	*			
PCB-179	4.51e+05	1.07	y	40:57	1.15	181		-	-	*			
PCB-176	1.28e+05	1.14	y	41:24	1.14	51.7		-	-	*			
PCB-186	*	*	n	NotFnd	1.19	*		652	460	4.78			
PCB-178	1.37e+05	0.95	y	42:26	0.83	76.6		-	-	*			
PCB-175	*	*	n	NotFnd	0.88	*		652	460	6.44			
PCB-187	8.39e+05	1.08	y	42:54	0.99	391		-	-	*		Co-elute PCB 182	
PCB-182	8.39e+05	1.08	y	42:54	0.99	391		-	-	*		Co-elute PCB 187	
PCB-183	3.93e+05	1.01	y	43:14	0.93	194		-	-	*			
PCB-185	6.73e+04	1.17	y	43:52	0.88	35.2		-	-	*			
PCB-174	5.83e+05	1.10	y	44:12	0.89	302		-	-	*			
PCB-181	*	*	n	NotFnd	0.90	*		652	460	6.29			
PCB-177	3.27e+05	1.17	y	44:28	0.79	190		-	-	*			
PCB-171	1.52e+05	1.02	y	44:45	0.85	82.2		-	-	*			
PCB-173	*	*	n	NotFnd	0.80	*		652	460	7.09			
PCB-172	3.77e+05	0.91	y	45:31	0.80	219		-	-	*			
PCB-192	1.00e+07	1.07	y	45:44	1.11	4170		-	-	*			
PCB-180	1.16e+06	1.10	y	45:54	1.09	490		-	-	*			
PCB-193	1.24e+05	0.90	y	46:02	1.16	49.2		-	-	*			
PCB-191	3.91e+04	1.08	y	46:15	1.08	16.7	J	-	-	*			
PCB-170	3.62e+05	0.99	y	47:09	0.77	216		-	-	*			
PCB-190	1.17e+05	0.93	y	47:19	1.09	49.7		-	-	*			
PCB-189	*	*	n	NotFnd	1.17	*		652	460	4.99			
13C-PCB-189	2.11e+07	1.10	y	48:32	0.73	9740					97.4	2.50e+06	2.28e+06
PCB-202	3.36e+04	1.00	y	44:54	1.03	25.9		-	-	*			
PCB-201	*	*	n	NotFnd	1.02	*		172	176	3.05			
PCB-204	1.49e+07	0.93	y	45:29	1.00	11900		-	-	*			
PCB-197	1.03e+05	0.97	y	45:45	1.08	75.8		-	-	*			
PCB-200	2.48e+04	0.99	y	46:30	1.01	19.7	J	-	-	*			
PCB-198	*	*	n	NotFnd	0.74	*		172	176	4.20			
PCB-199	1.14e+05	0.92	y	47:46	0.84	109		-	-	*			
PCB-203	1.29e+05	0.99	y	48:00	0.87	119		-	-	*		Co-elute PCB 196	
PCB-196	1.29e+05	0.99	y	48:00	0.87	119		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.25e+07	0.93	y	44:53	0.44	9640					96.4	1.32e+06	1.47e+06
13C-PCB-178	1.64e+07	1.08	y	42:25	0.60	9130					91.3	1.77e+06	1.64e+06
13C-PCB-138	2.97e+07	1.30	y	41:39	-	61.3							
PCB-195	1.09e+05	0.82	y	49:07	0.71	38.5		-	-	*			
PCB-194	2.62e+05	0.94	y	49:54	0.79	82.6		-	-	*			
PCB-205	2.95e+04	0.98	y	50:10	1.07	6.88	J	-	-	*			
13C-PCB-205	4.00e+07	0.91	y	50:10	1.23	9720					97.2	5.72e+06	6.16e+06
PCB-208	2.73e+04	1.21	y	49:13	1.01	8.43	J	-	-	*			
13C-PCB-208	3.20e+07	0.80	y	49:12	0.97	9840					98.4	4.42e+06	5.59e+06
PCB-207	1.39e+05	1.15	y	49:30	0.98	49.3		-	-	*			
PCB-206	7.01e+04	1.51	y	51:22	1.00	27.0		-	-	*			
13C-PCB-206	2.59e+07	0.80	y	51:20	0.88	8820					88.2	3.36e+06	4.25e+06
PCB-209	1.78e+05	1.29	y	52:34	1.12	57.0		-	-	*			
13C-PCB-209	2.79e+07	1.23	y	52:32	0.97	8630					86.3	4.78e+06	3.86e+06
13C-PCB-194	3.35e+07	0.92	y	49:54	-	61.6							

Analyst: _____ Date: 8/20/18

File:25JUL18Z #1-784 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-784 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
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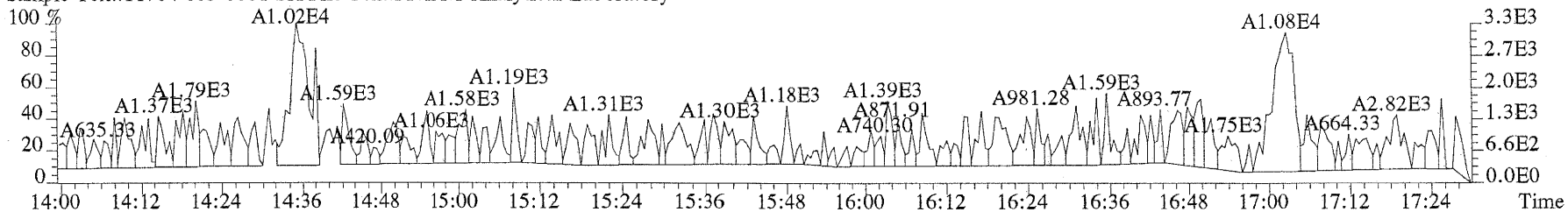
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



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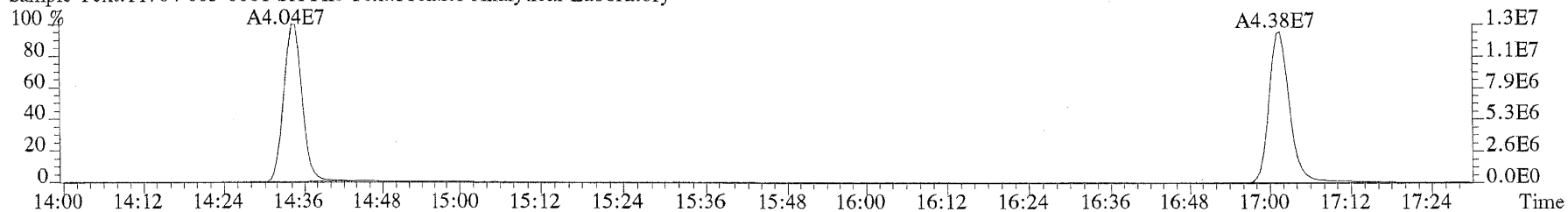
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-784 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
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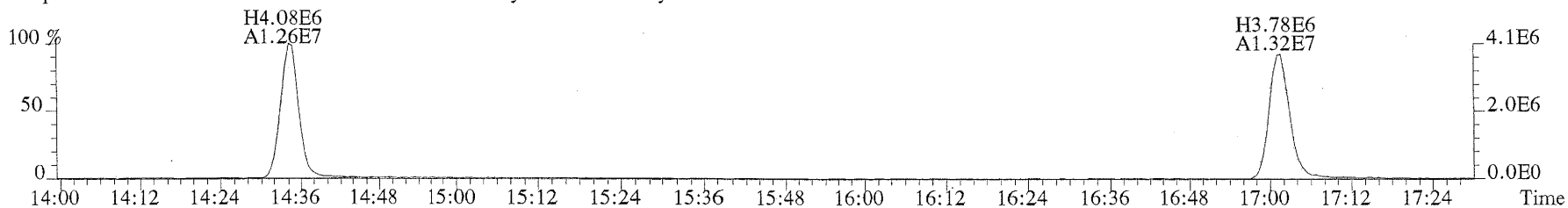
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-520 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
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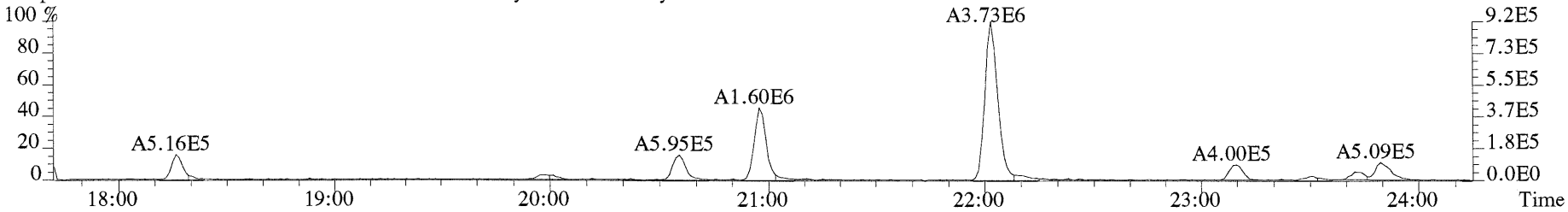
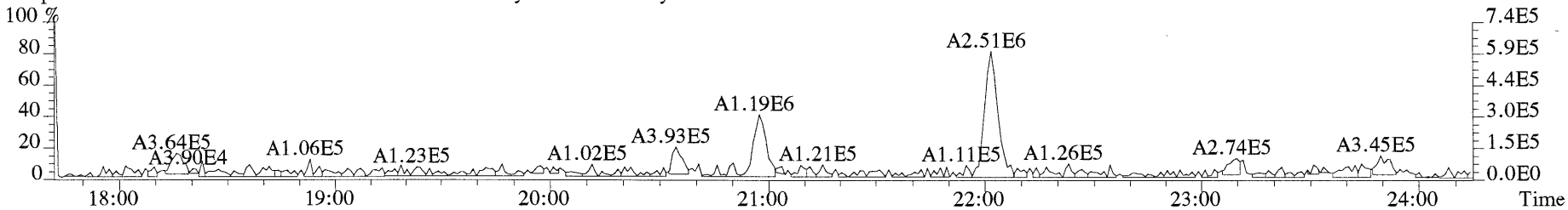
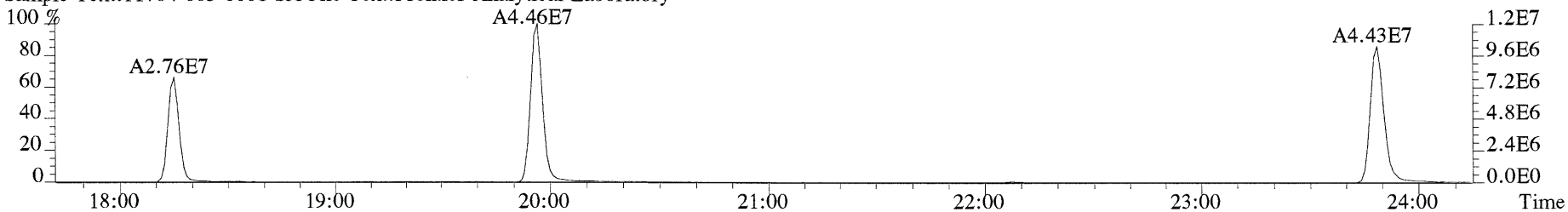
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



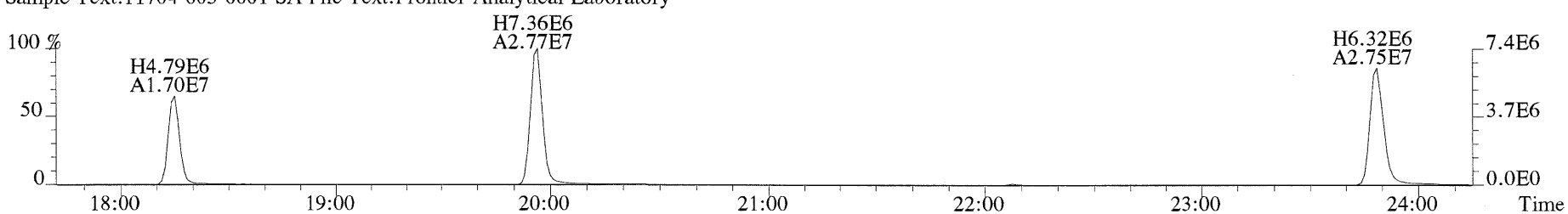
File:25JUL18Z #1-520 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



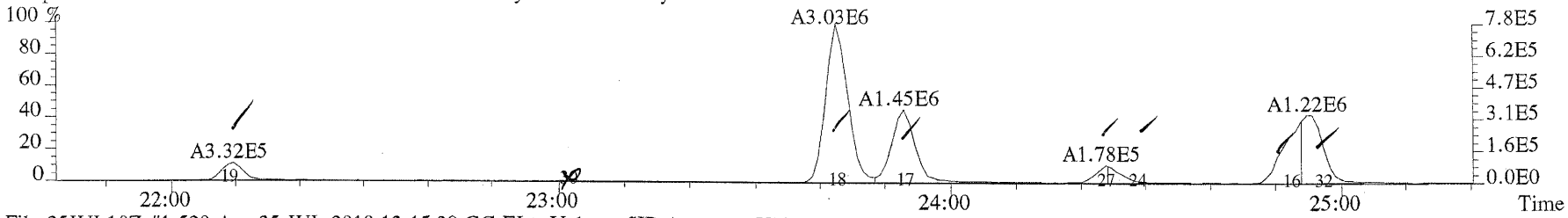
File:25JUL18Z #1-520 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



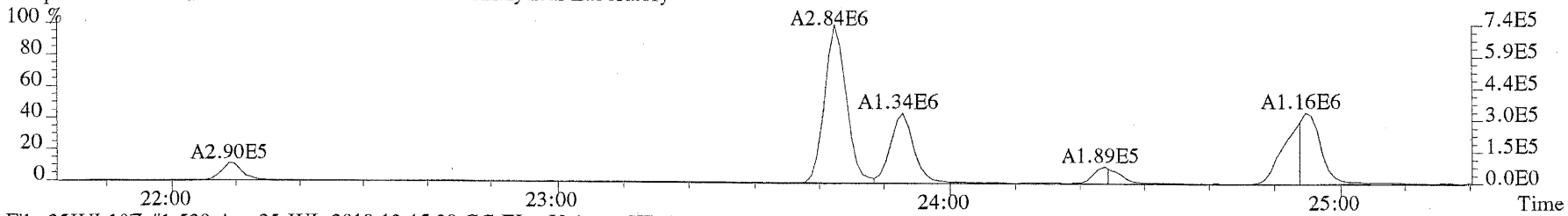
File:25JUL18Z #1-520 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



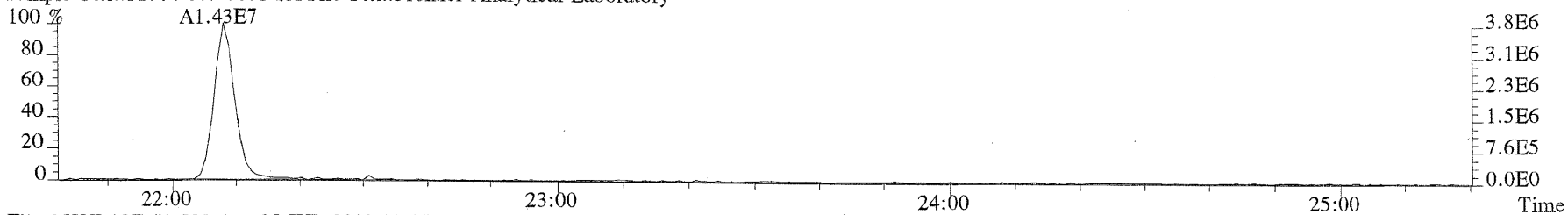
File:25JUL18Z #1-520 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



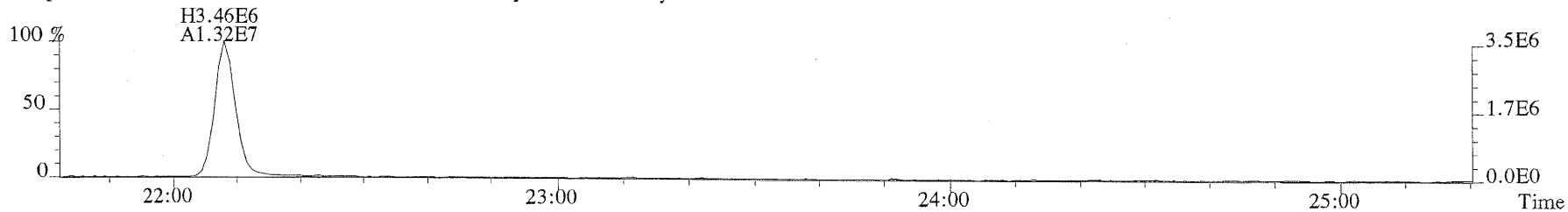
File:25JUL18Z #1-520 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



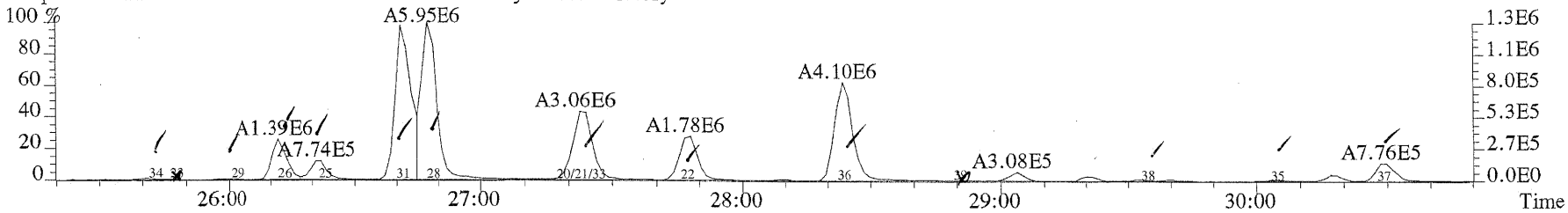
File:25JUL18Z #1-520 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



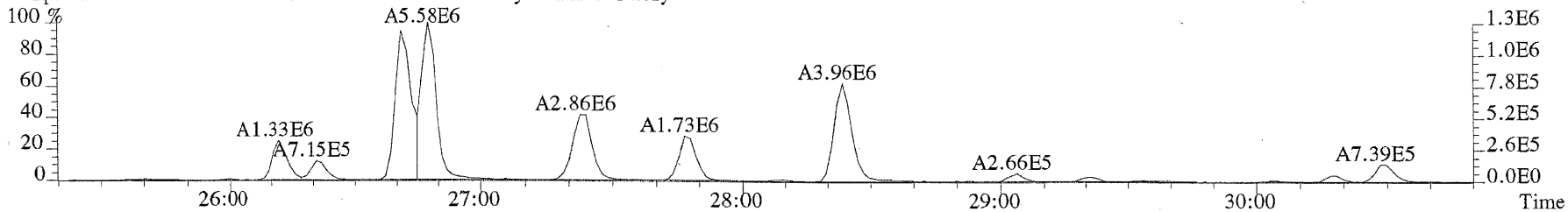
File:25JUL18Z #1-520 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



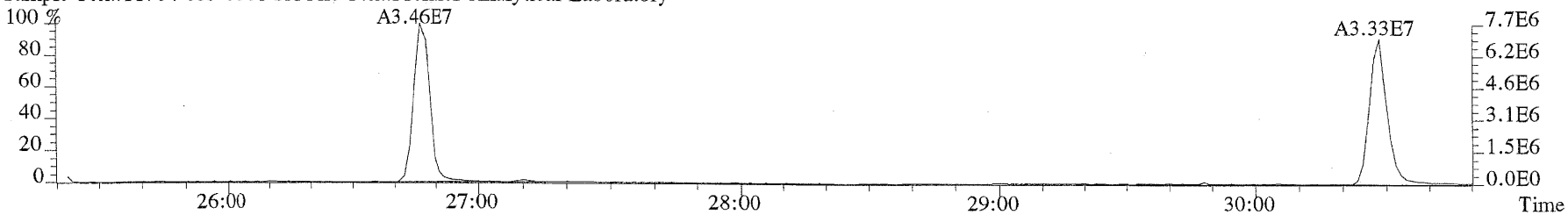
File:25JUL18Z #1-401 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



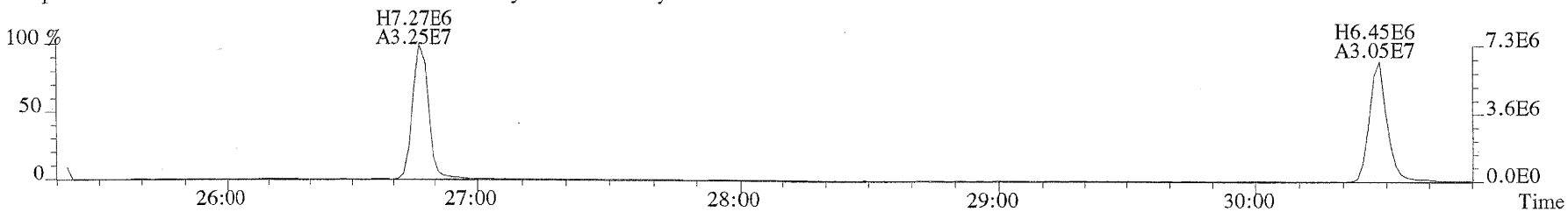
File:25JUL18Z #1-401 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



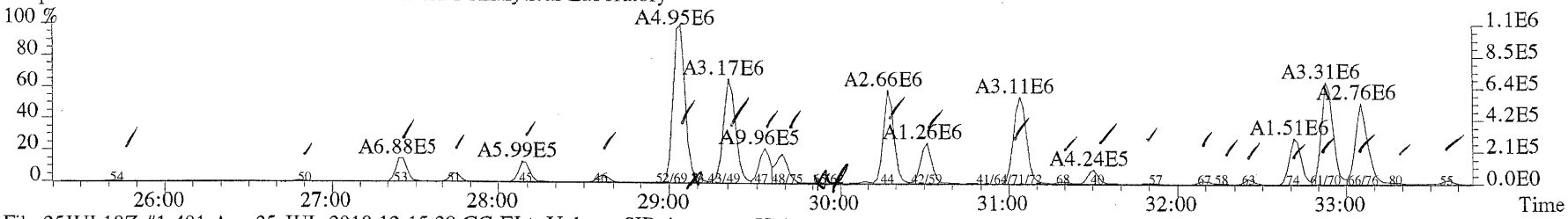
File:25JUL18Z #1-401 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



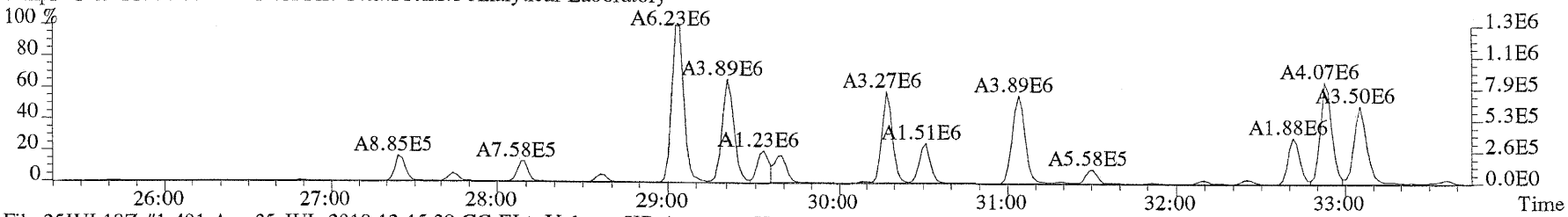
File:25JUL18Z #1-401 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



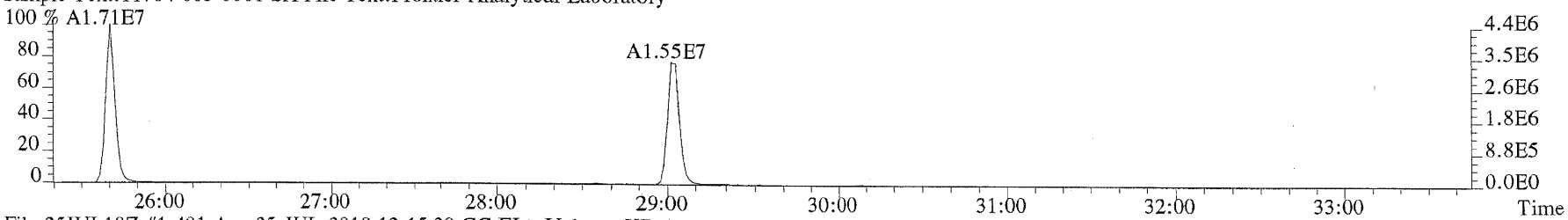
File:25JUL18Z #1-401 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



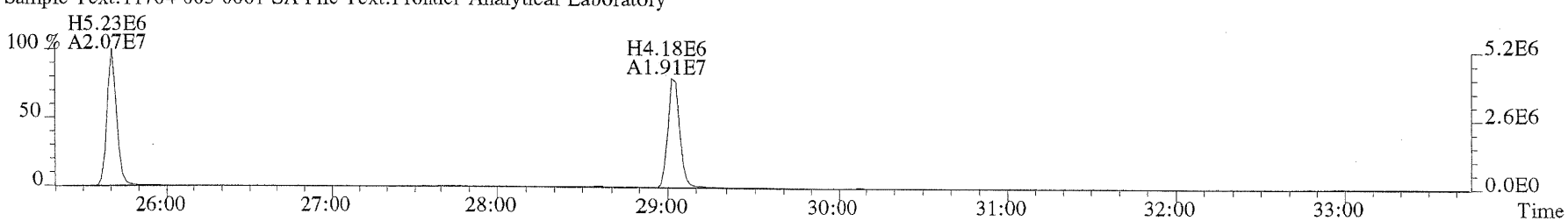
File:25JUL18Z #1-401 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



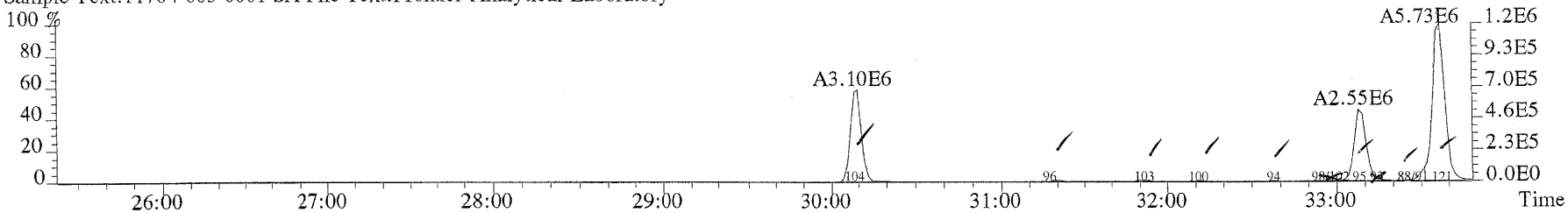
File:25JUL18Z #1-401 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



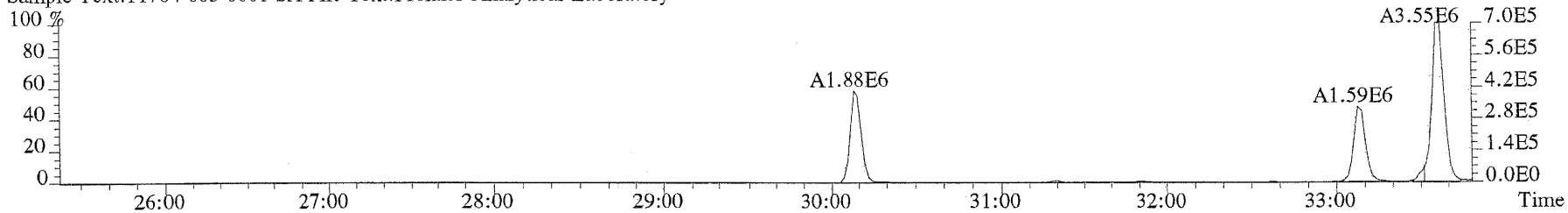
File:25JUL18Z #1-401 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



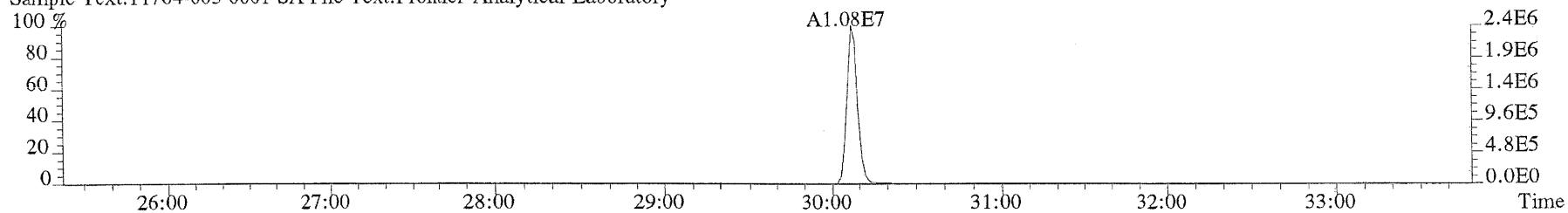
File:25JUL18Z #1-401 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



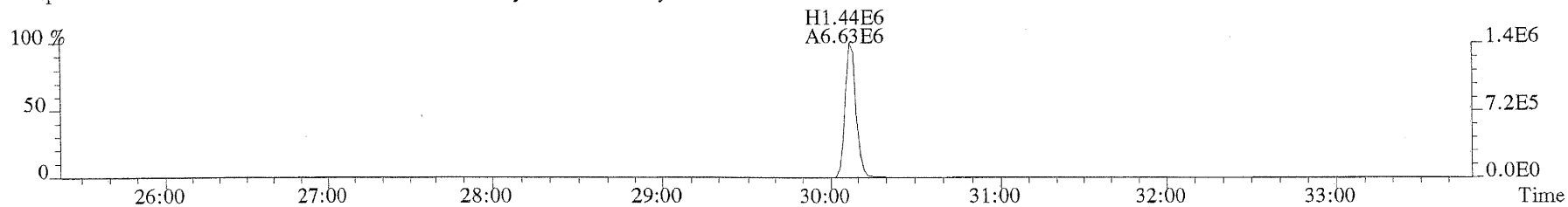
File:25JUL18Z #1-401 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



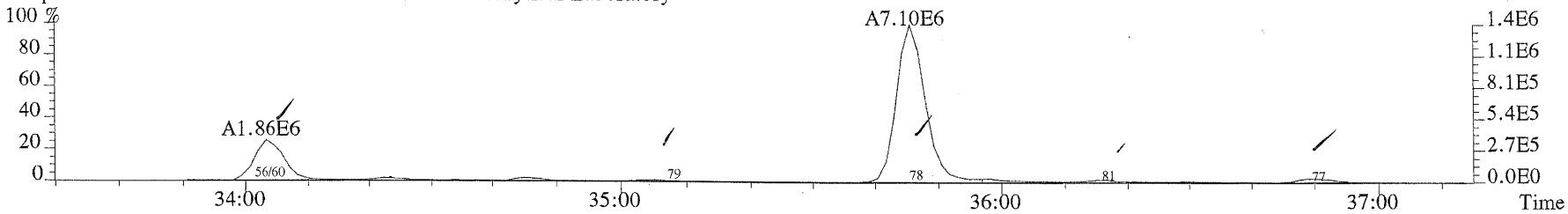
File:25JUL18Z #1-401 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



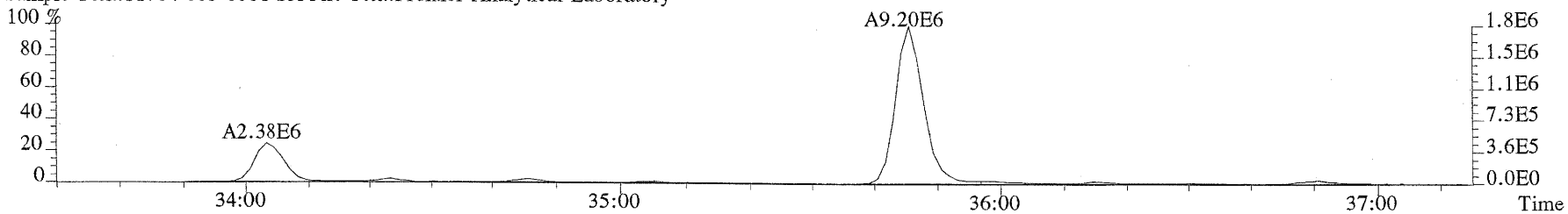
File:25JUL18Z #1-401 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



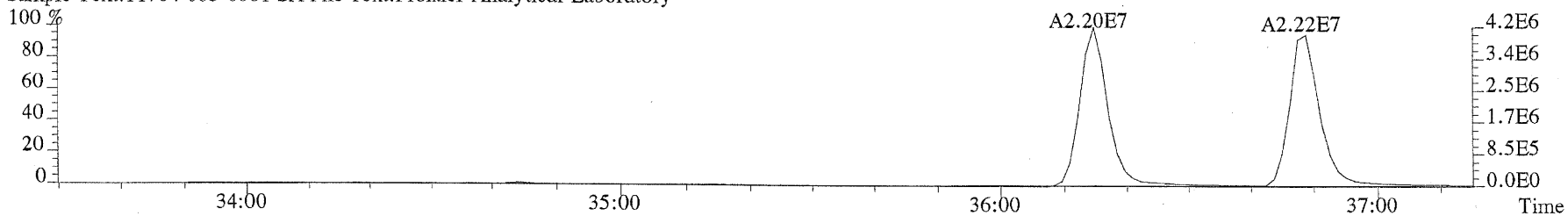
File:25JUL18Z #1-183 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



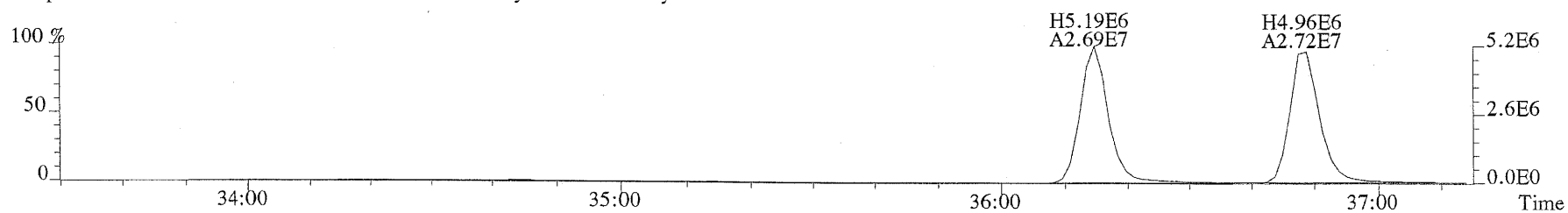
File:25JUL18Z #1-183 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



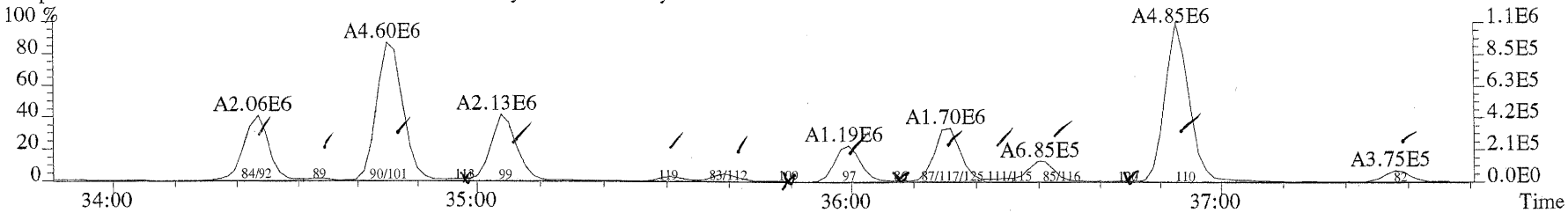
File:25JUL18Z #1-183 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



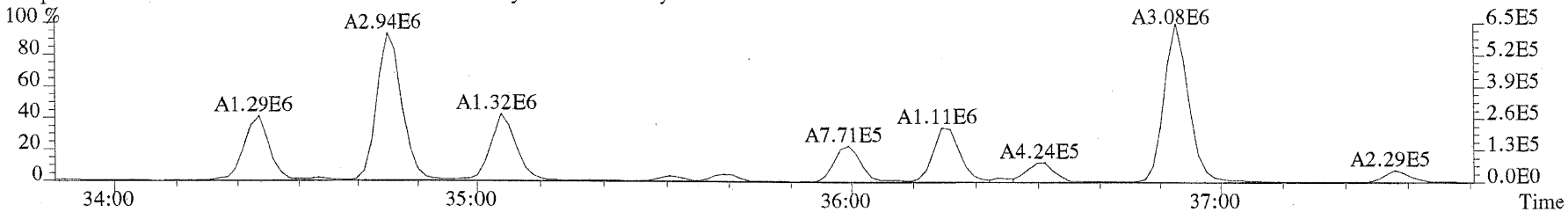
File:25JUL18Z #1-183 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



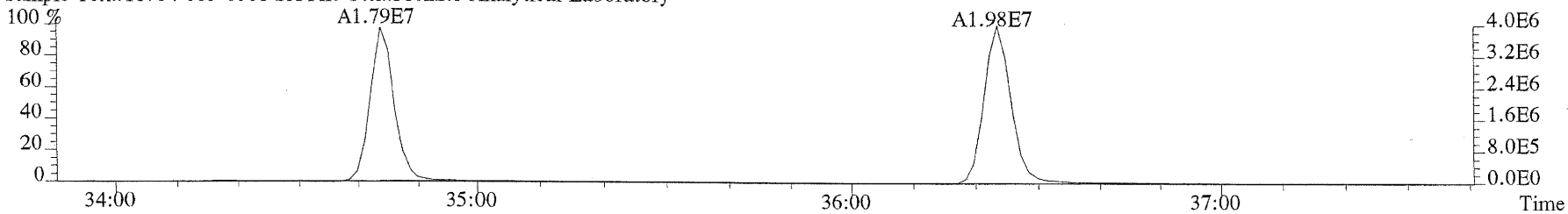
File:25JUL18Z #1-183 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



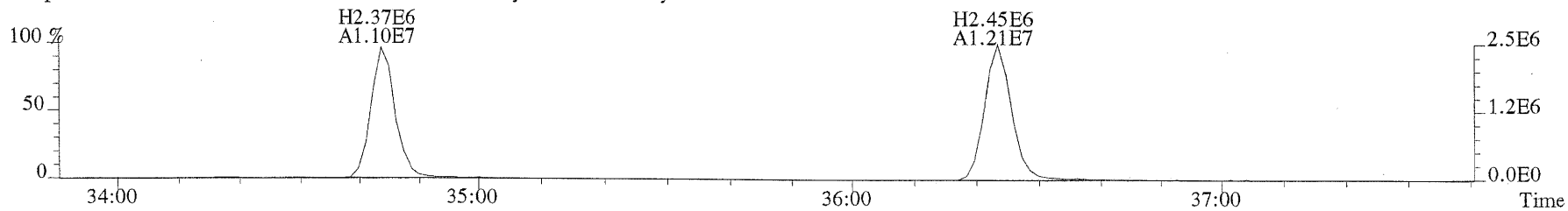
File:25JUL18Z #1-183 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



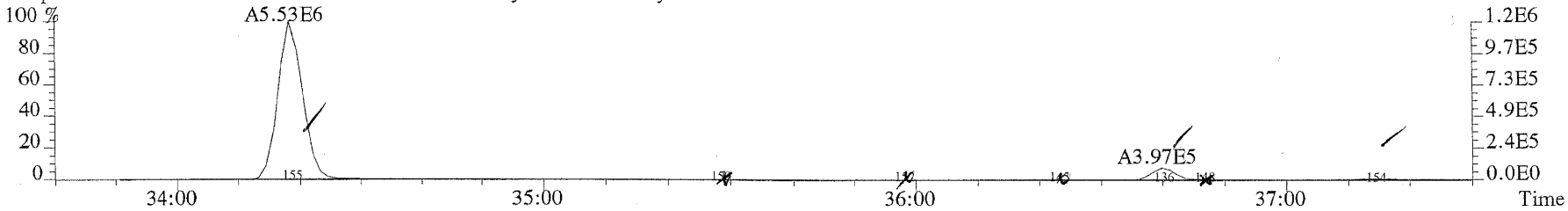
File:25JUL18Z #1-183 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



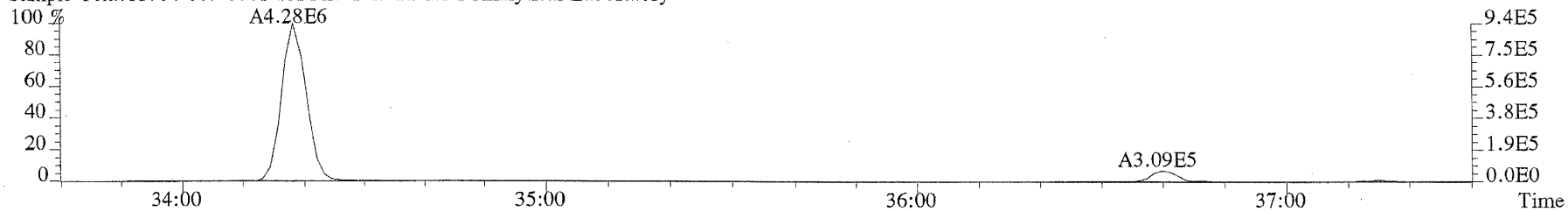
File:25JUL18Z #1-183 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



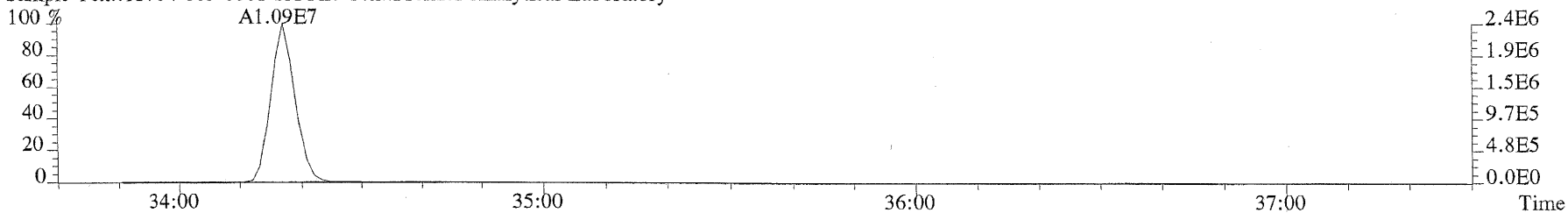
File:25JUL18Z #1-183 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



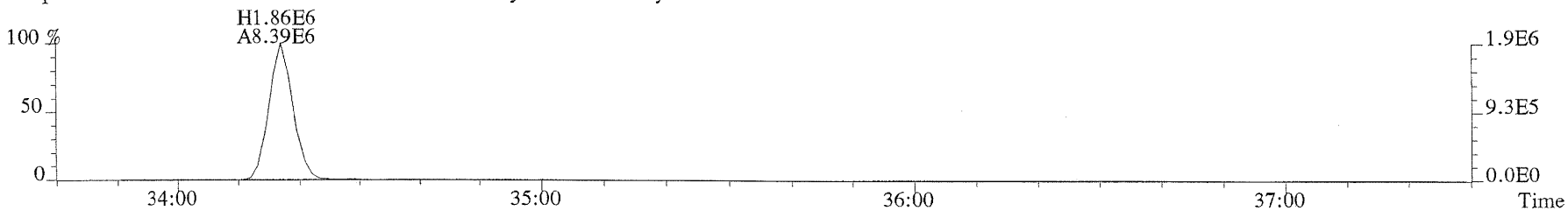
File:25JUL18Z #1-183 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



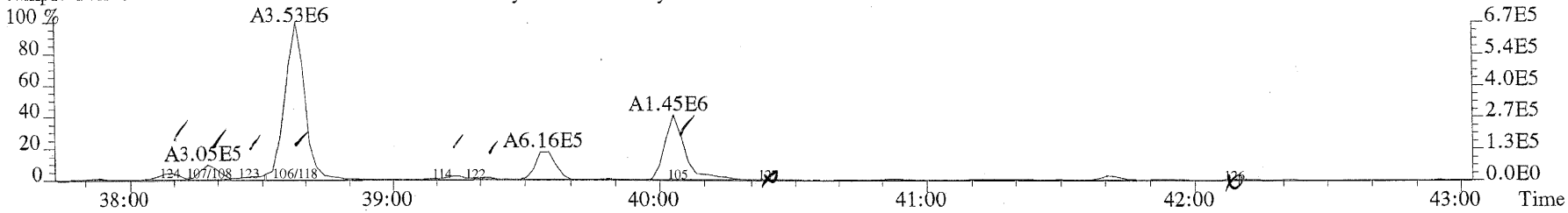
File:25JUL18Z #1-183 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



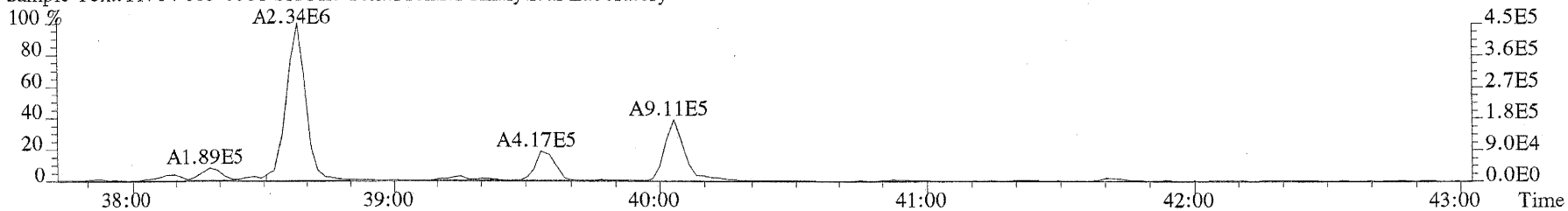
File:25JUL18Z #1-183 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



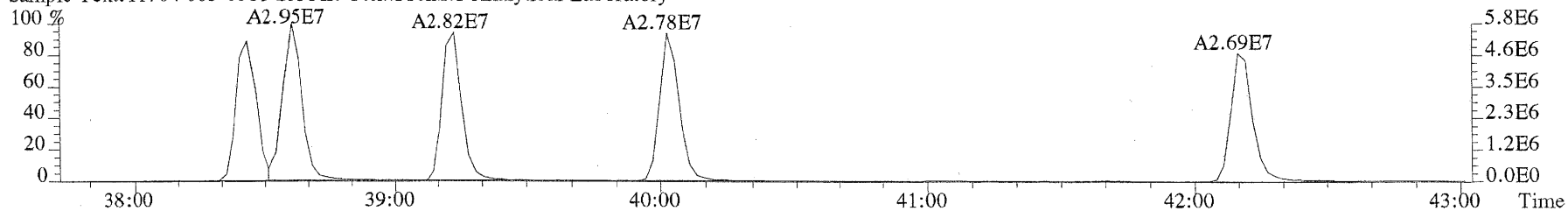
File:25JUL18Z #1-404 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



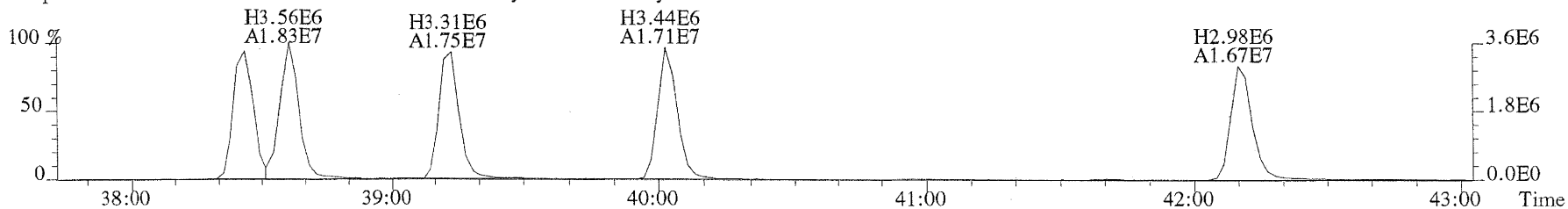
File:25JUL18Z #1-404 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



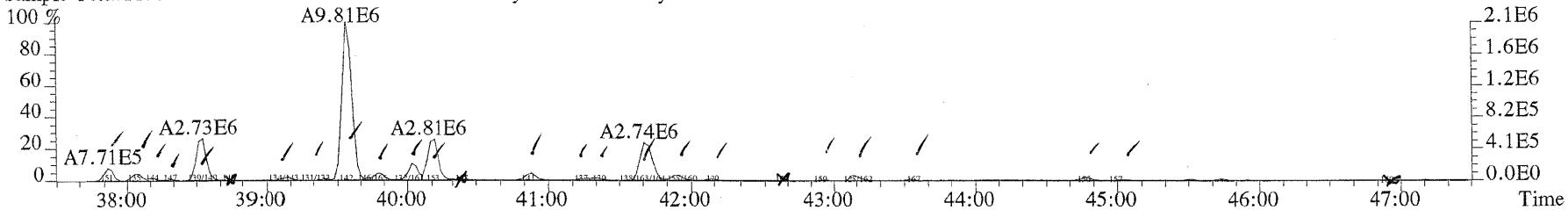
File:25JUL18Z #1-404 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



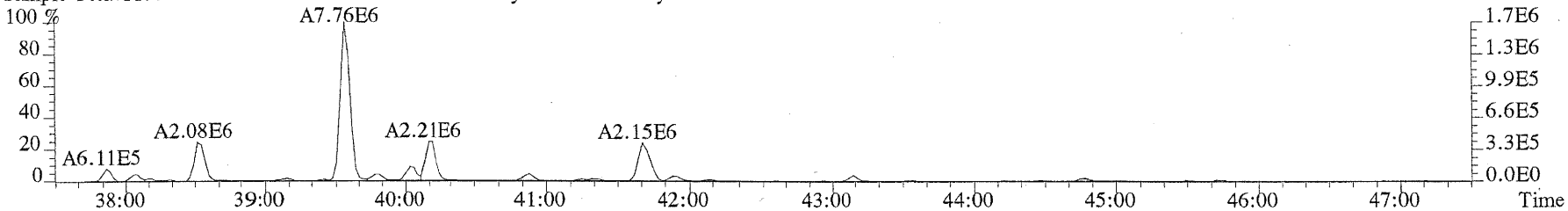
File:25JUL18Z #1-404 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 12:15:29 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:11704-003-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 12:15:29 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:11704-003-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
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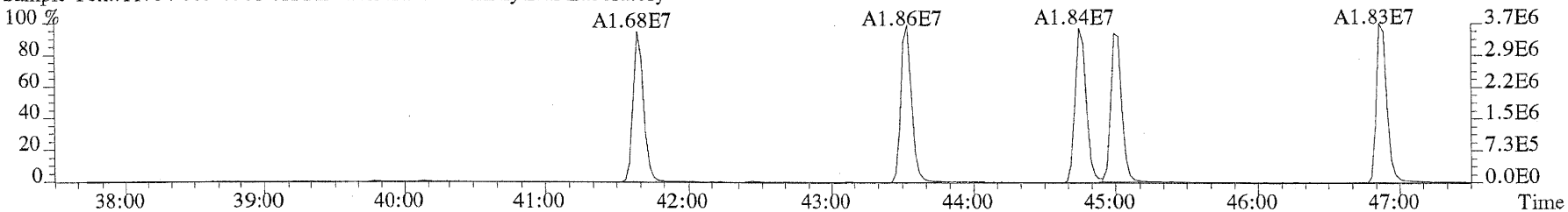
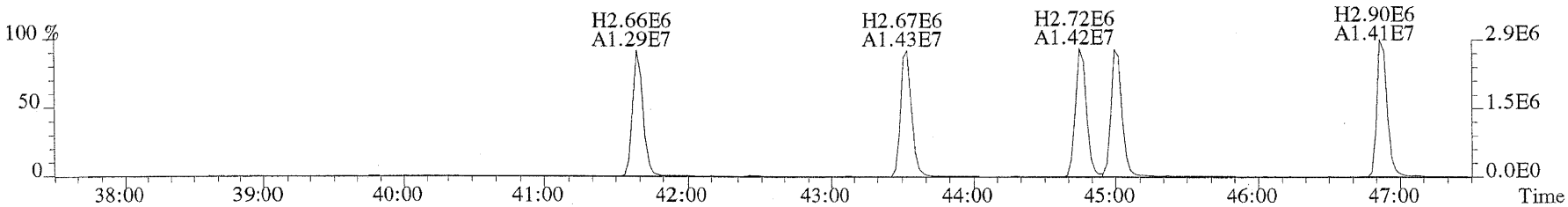
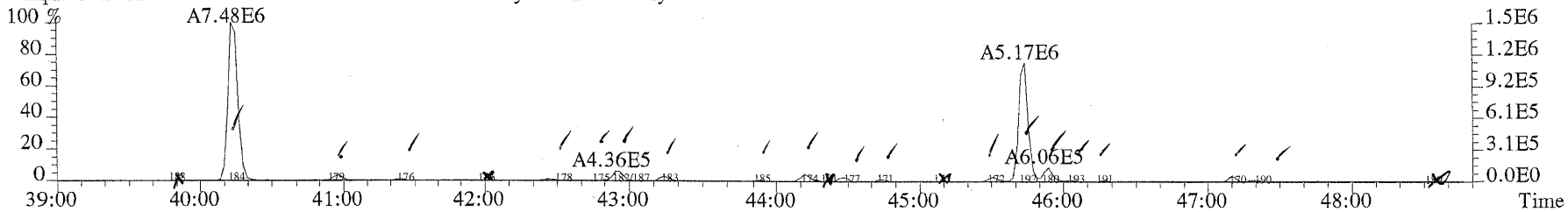
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



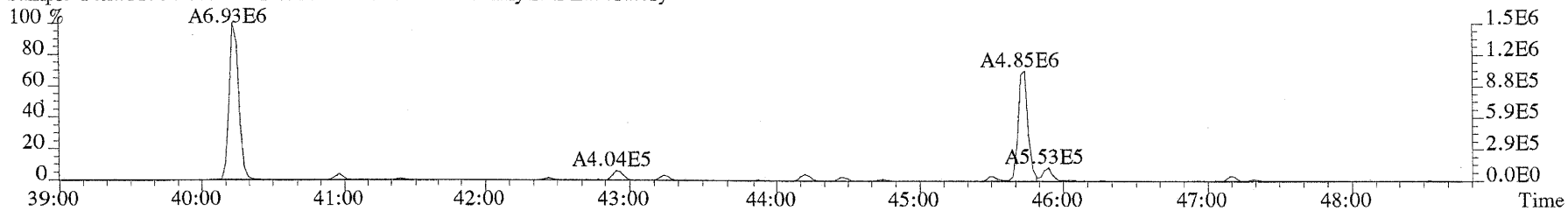
File:25JUL18Z #1-404 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



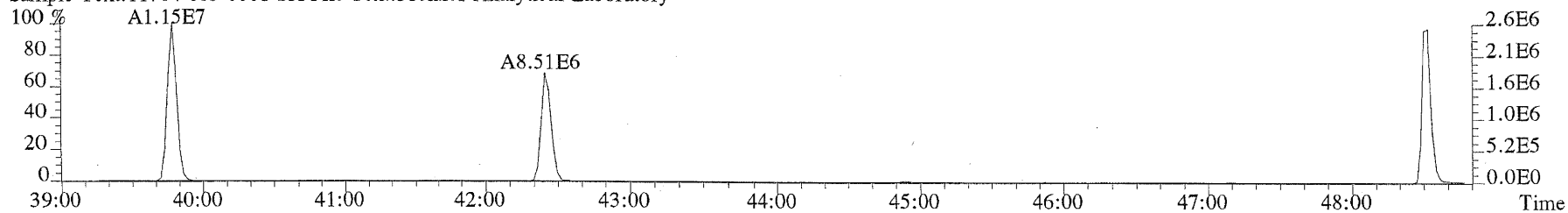
File:25JUL18Z #1-404 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



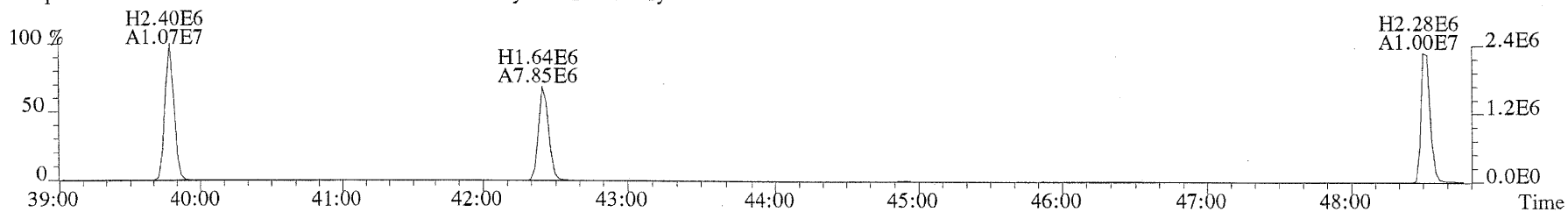
File:25JUL18Z #1-404 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



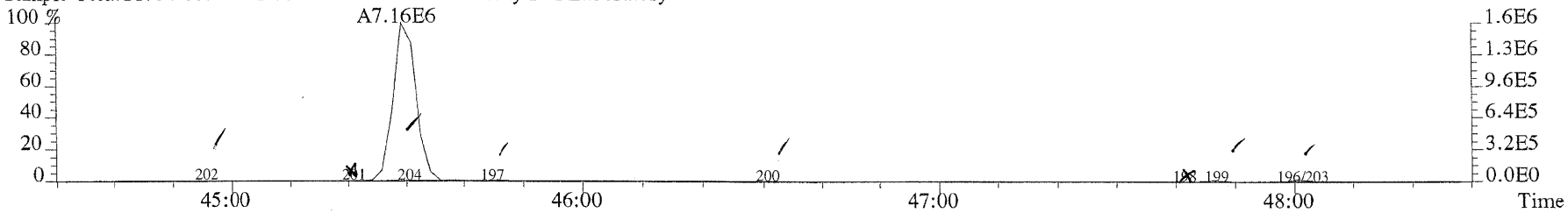
File:25JUL18Z #1-404 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



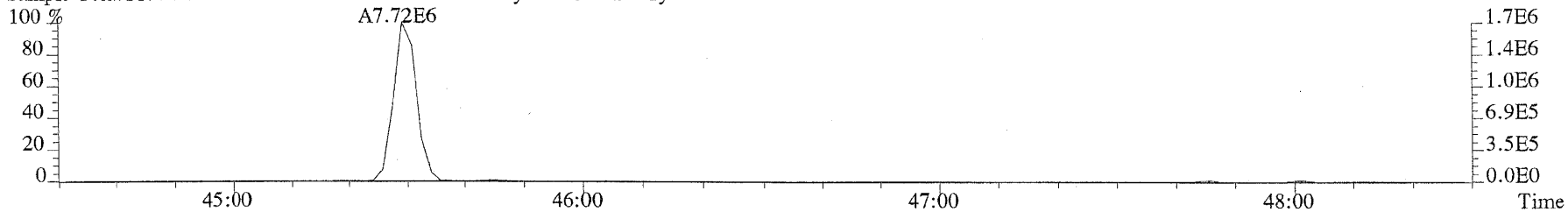
File:25JUL18Z #1-404 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



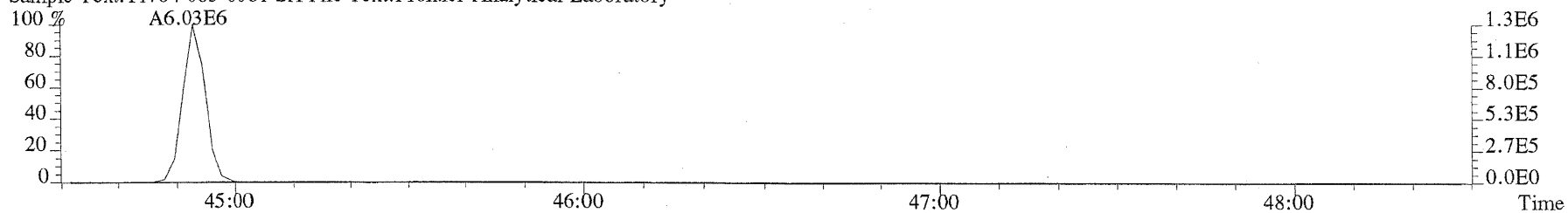
File:25JUL18Z #1-404 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



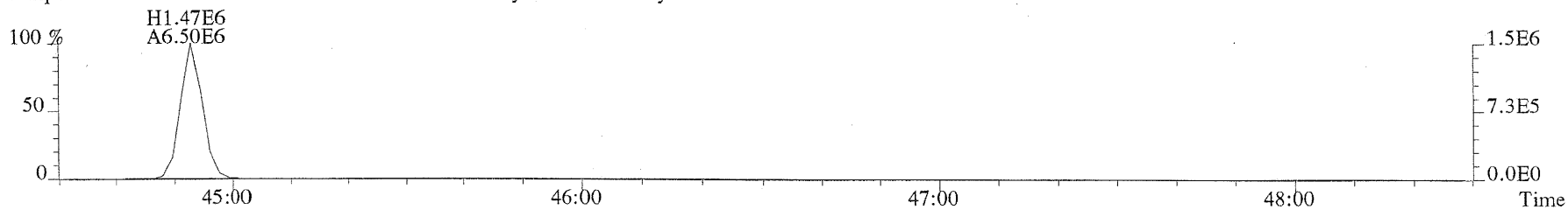
File:25JUL18Z #1-404 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



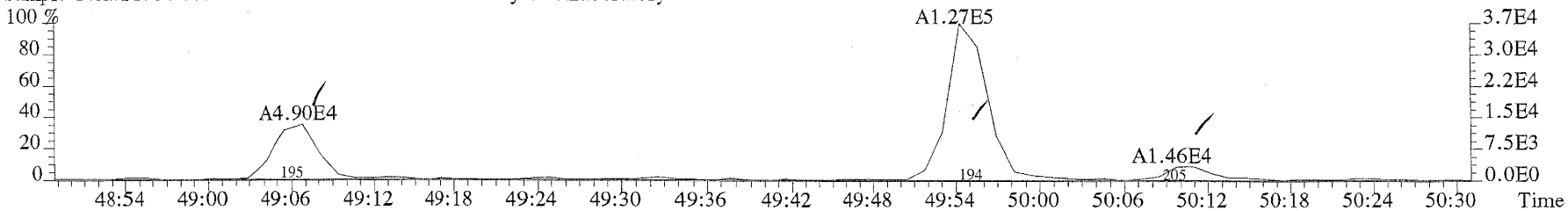
File:25JUL18Z #1-404 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



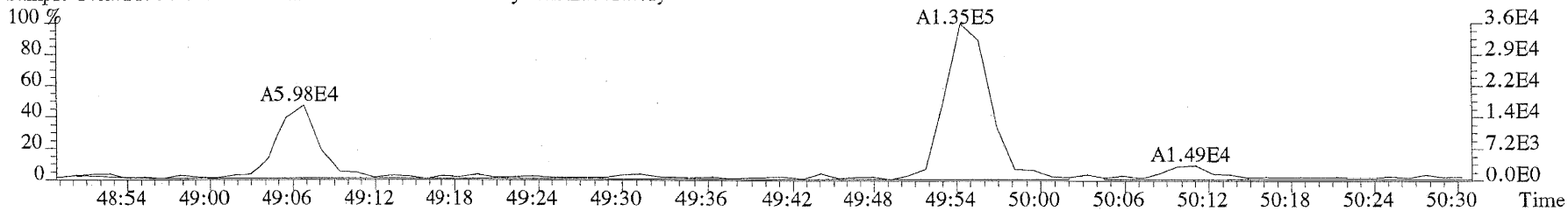
File:25JUL18Z #1-404 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



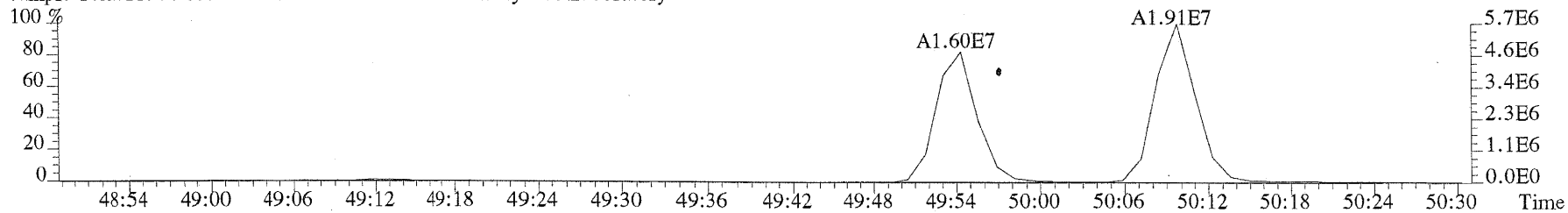
File:25JUL18Z #1-314 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



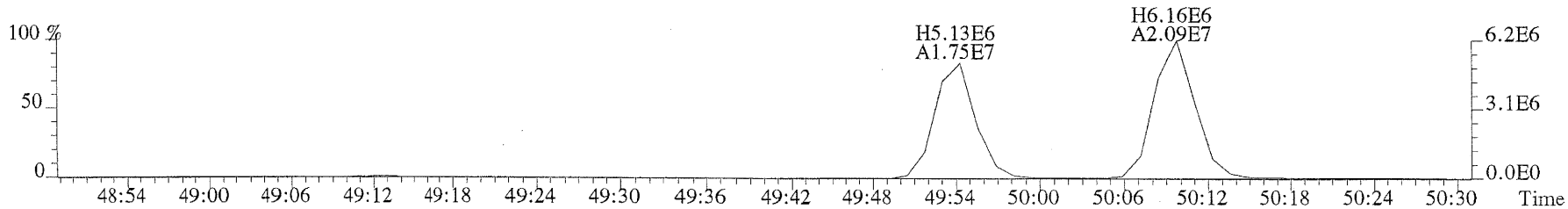
File:25JUL18Z #1-314 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



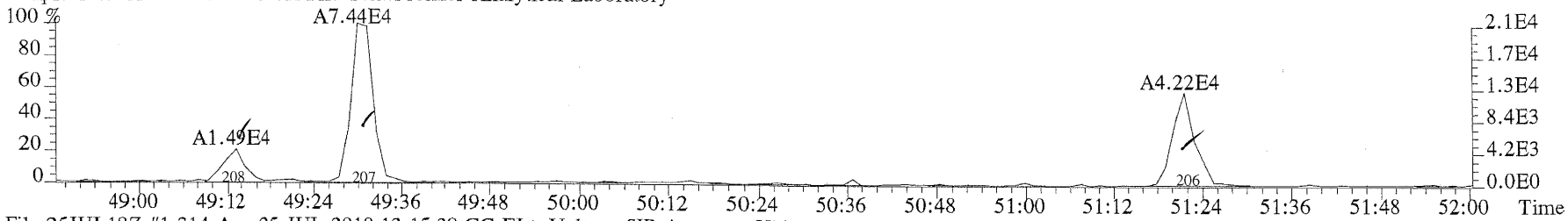
File:25JUL18Z #1-314 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



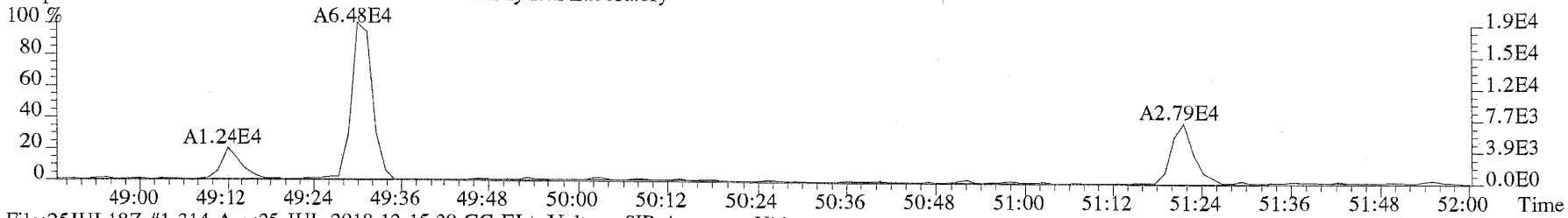
File:25JUL18Z #1-314 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



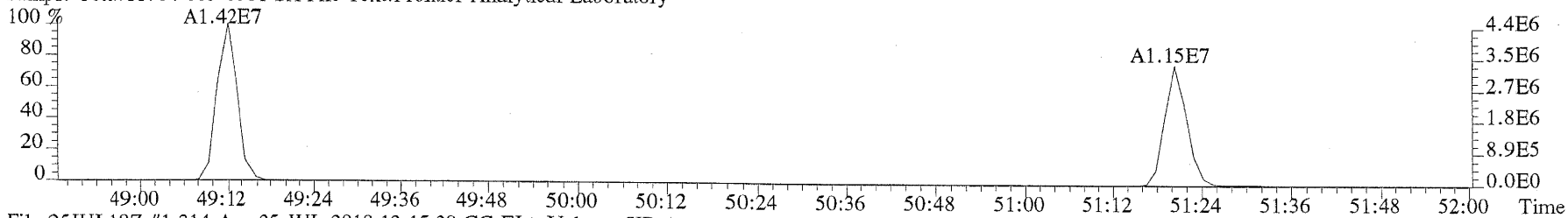
File:25JUL18Z #1-314 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



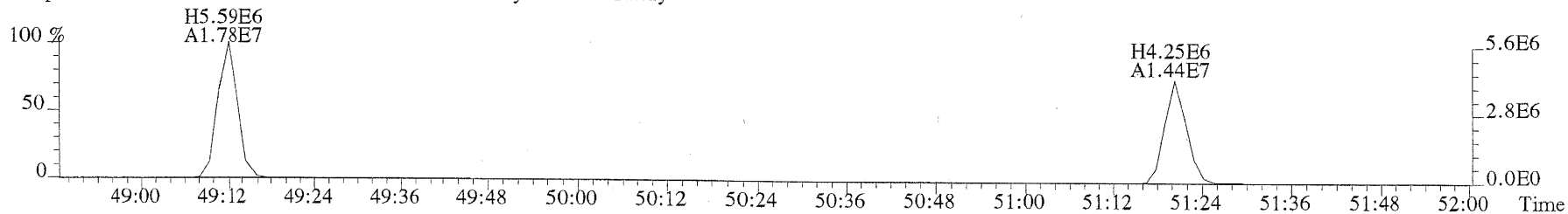
File:25JUL18Z #1-314 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



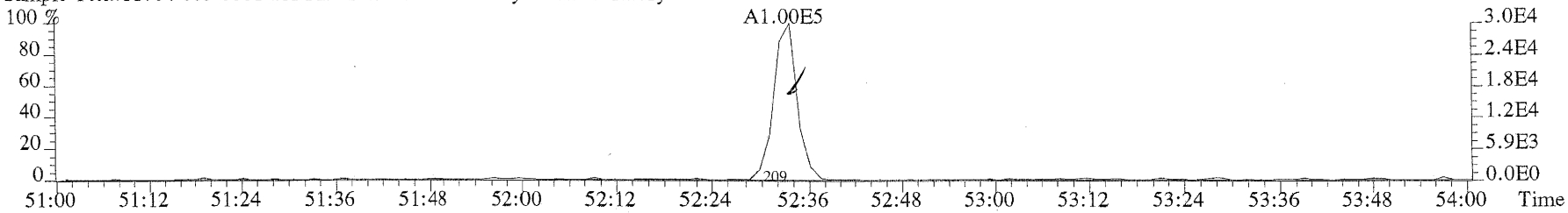
File:25JUL18Z #1-314 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



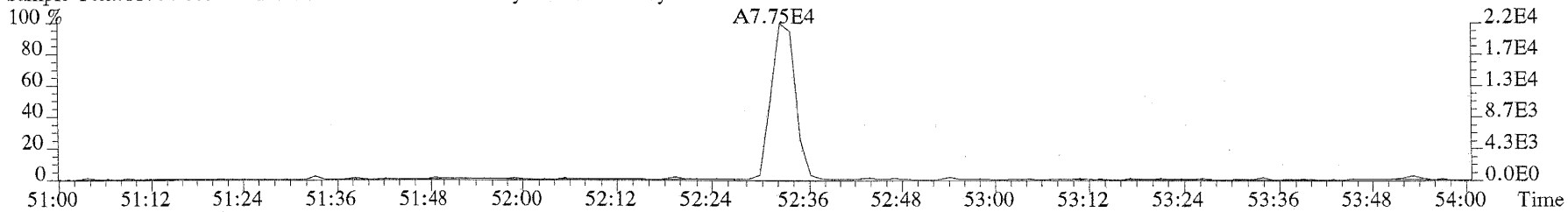
File:25JUL18Z #1-314 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



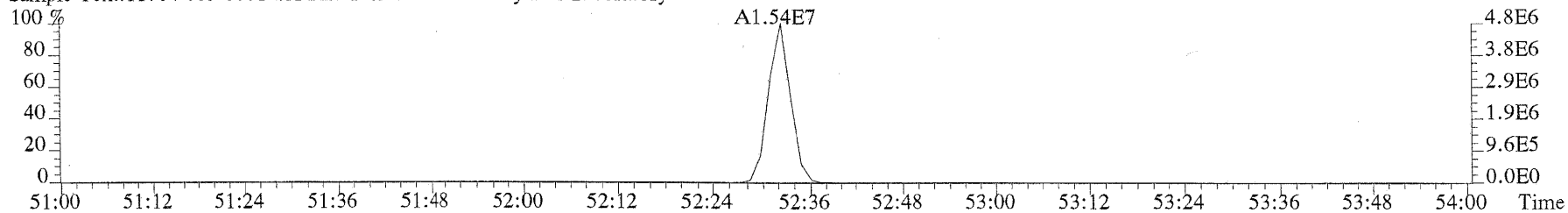
File:25JUL18Z #1-314 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



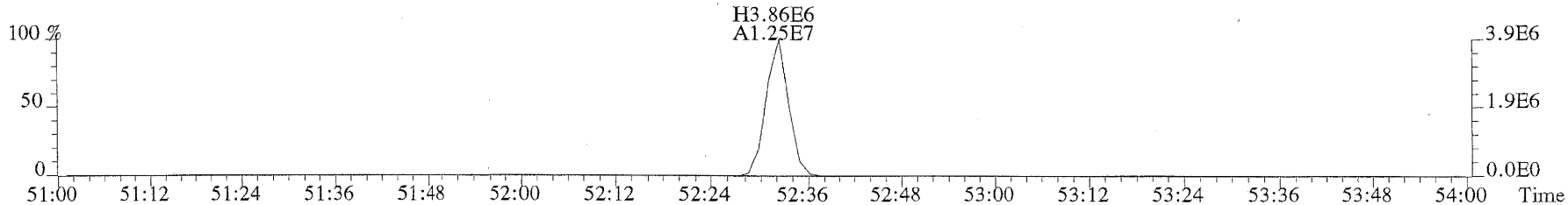
File:25JUL18Z #1-314 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-003-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
509.7229 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:11704-003-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 12:15:29 GC EI+ Voltage SIR Autospec-Ultima
511.7199 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:11704-003-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11704-004-0001-SA Filename: 25JUL18Z Sam:7 Acquired: 25-JUL-18 13:14:16 ICal: DAILY209FAL4-7-25-18
Client ID: LDW-Y1-SU-ENR-CC-S010 ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	6.50e+04	3.12 y	14:35	1.19	12.3	J	-	-	*			
13C-PCB-1	4.45e+07	3.20 y	14:35	0.80	9120					91.2	1.09e+07	3.37e+06
PCB-2	*	* n	NotFnd	1.10	*		1610	1160	4.52			
PCB-3	*	* n	NotFnd	1.17	*		1610	1160	4.34			
13C-PCB-3	4.67e+07	3.28 y	17:01	0.85	9100					91.0	1.04e+07	3.19e+06
PCB-4	7.59e+05	1.52 y	18:16	1.26	161		-	-	*			
PCB-10	1.10e+05	1.58 y	18:20	1.15	19.9	J	-	-	*			
13C-PCB-4	3.76e+07	1.60 y	18:15	0.63	9780					97.8	6.73e+06	4.18e+06
PCB-9	2.02e+05	1.51 y	19:58	1.28	32.8		-	-	*			
PCB-7	1.84e+05	1.65 y	20:00	1.30	29.3		-	-	*			
PCB-6	8.15e+05	1.49 y	20:35	1.28	133		-	-	*			
PCB-8	2.33e+06	1.45 y	20:57	1.28	378		-	-	*			
PCB-5	1.64e+05	1.66 y	21:01	1.29	26.4		-	-	*			
PCB-14	3.51e+06	1.48 y	22:01	1.23	593		-	-	*			
PCB-11	4.49e+05	1.60 y	23:09	1.20	77.4		-	-	*			
PCB-13	*	* n	NotFnd	1.24	*		1580	320	3.10			
PCB-12	*	* n	NotFnd	1.25	*		1580	3240	7.77			
PCB-15	7.21e+05	1.54 y	23:50	1.12	109		-	-	*			
13C-PCB-15	5.89e+07	1.64 y	23:48	0.95	10200					102	8.36e+06	5.18e+06
PCB-19	5.20e+05	1.12 y	22:09	1.26	185		-	-	*			
PCB-30	*	* n	NotFnd	1.70	*		1210	584	4.66			
PCB-18	5.26e+06	1.08 y	23:43	1.21	1960		-	-	*			
PCB-17	2.57e+06	1.05 y	23:53	1.29	891		-	-	*			
PCB-27	3.38e+05	1.03 y	24:23	1.64	92.3		-	-	*			
PCB-24	3.22e+05	1.04 y	24:24	1.68	86.0		-	-	*			
PCB-16	1.38e+06	1.06 y	24:52	1.42	436		-	-	*			
PCB-32	2.39e+06	1.02 y	24:54	1.44	744		-	-	*			
13C-PCB-19	2.23e+07	1.09 y	22:08	0.40	9240					92.4	2.95e+06	2.72e+06
13C-PCB-9	6.06e+07	1.64 y	19:56	-	52.7							
PCB-34	1.09e+05	0.98 y	25:41	1.09	19.4	J	-	-	*			
PCB-23	3.70e+04	1.17 y	25:46	1.17	6.10	J	-	-	*			
PCB-29	8.80e+04	1.14 y	26:00	1.18	14.5	J	-	-	*			
PCB-26	2.37e+06	1.06 y	26:12	1.12	410		-	-	*			
PCB-25	1.27e+06	0.95 y	26:21	1.38	178		-	-	*			
PCB-31	9.25e+06	1.04 y	26:41	1.10	1620		-	-	*			
PCB-28	1.09e+07	1.07 y	26:48	1.34	1580		-	-	*			
PCB-20	5.73e+06	1.06 y	27:23	1.19	933		-	-	*		Co-elute PCB 21/33	
PCB-21	5.73e+06	1.06 y	27:23	1.19	933		-	-	*		Co-elute PCB 20/33	
PCB-33	5.73e+06	1.06 y	27:23	1.19	933		-	-	*		Co-elute PCB 20/21	
PCB-22	3.34e+06	1.05 y	27:47	1.17	554		-	-	*			
PCB-36	4.72e+06	1.05 y	28:23	1.09	838		-	-	*			
PCB-39	*	* n	NotFnd	1.13	*		570	480	2.34			
PCB-38	9.49e+04	0.94 y	29:33	1.17	15.8	J	-	-	*			
PCB-35	1.09e+05	1.03 y	30:04	1.04	20.2		-	-	*			
PCB-37	1.30e+06	1.06 y	30:29	1.23	205		-	-	*			
13C-PCB-37	5.17e+07	1.09 y	30:28	1.68	11200					112	5.16e+06	4.75e+06

PCB-54	4.61e+04	0.86	y	25:41	1.19	12.9	J	-	-	*			
PCB-50	5.08e+04	0.82	y	26:48	0.90	18.9	J	-	-	*			
PCB-53	1.42e+06	0.82	y	27:24	0.91	518		-	-	*			
PCB-51	4.91e+05	0.83	y	27:45	0.93	177		-	-	*			
PCB-45	1.18e+06	0.81	y	28:09	0.78	503		-	-	*			
PCB-46	4.47e+05	0.75	y	28:35	0.77	195		-	-	*			
PCB-52	1.01e+07	0.81	y	29:03	1.08	3120		-	-	*	Co-elute PCB 69		
PCB-69	1.01e+07	0.81	y	29:03	1.08	3120		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.19	*		508	702	3.64			
PCB-43	6.37e+06	0.81	y	29:21	0.88	2420		-	-	*	Co-elute PCB 49		
PCB-49	6.37e+06	0.81	y	29:21	0.88	2420		-	-	*	Co-elute PCB 43		
PCB-47	2.28e+06	0.81	y	29:32	1.15	659		-	-	*			
PCB-48	1.88e+06	0.84	y	29:38	1.06	588		-	-	*	Co-elute PCB 75		
PCB-75	1.88e+06	0.84	y	29:38	1.06	588		-	-	*	Co-elute PCB 48		
PCB-65	2.85e+04	0.69	y	29:54	1.09	8.69	J	-	-	*			
PCB-62	*	*	n	NotFnd	1.15	*		508	702	3.77			
PCB-44	5.33e+06	0.81	y	30:16	0.82	2180		-	-	*			
PCB-42	2.57e+06	0.81	y	30:30	1.06	806		-	-	*	Co-elute PCB 59		
PCB-59	2.57e+06	0.81	y	30:30	1.06	806		-	-	*	Co-elute PCB 42		
PCB-72	6.51e+06	0.81	y	31:04	1.15	1890		-	-	*	Co-elute PCB 41/71/64		
PCB-41	6.51e+06	0.81	y	31:04	1.15	1890		-	-	*	Co-elute PCB 72/71/64		
PCB-71	6.51e+06	0.81	y	31:04	1.15	1890		-	-	*	Co-elute PCB 72/41/64		
PCB-64	6.51e+06	0.81	y	31:04	1.15	1890		-	-	*	Co-elute PCB 72/41/71		
PCB-68	1.03e+05	0.74	y	31:18	1.25	27.5		-	-	*			
PCB-40	8.97e+05	0.79	y	31:30	0.71	424		-	-	*			
PCB-57	4.89e+04	0.79	y	31:52	1.13	14.4	J	-	-	*			
PCB-67	2.37e+05	0.77	y	32:09	1.12	70.8		-	-	*			
PCB-58	3.24e+04	0.82	y	32:15	1.18	9.13	J	-	-	*			
PCB-63	3.04e+05	0.88	y	32:24	1.14	89.3		-	-	*			
PCB-74	3.20e+06	0.80	y	32:40	1.21	882		-	-	*			
PCB-61	6.94e+06	0.82	y	32:53	1.23	1880		-	-	*	Co-elute PCB 70		
PCB-70	6.94e+06	0.82	y	32:53	1.23	1880		-	-	*	Co-elute PCB 61		
PCB-76	5.77e+06	0.83	y	33:05	1.21	1600		-	-	*	Co-elute PCB 66		
PCB-66	5.77e+06	0.83	y	33:05	1.21	1600		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.30	*		508	702	3.33			
PCB-55	2.72e+05	0.76	y	33:36	1.20	75.7		-	-	*			
13C-PCB-54	3.00e+07	0.81	y	25:40	1.11	9850					98.5	3.12e+06	3.88e+06
PCB-104	3.21e+06	1.56	y	30:08	1.35	1710		-	-	*			
PCB-96	6.78e+04	1.44	y	31:20	1.22	40.1		-	-	*			
PCB-103	7.65e+04	1.70	y	31:50	1.05	52.9		-	-	*			
PCB-100	4.28e+04	1.38	y	32:11	1.07	28.9		-	-	*			
PCB-94	3.34e+04	1.69	y	32:37	0.90	26.9		-	-	*			
PCB-98	*	*	n	NotFnd	0.54	*		280	288	8.21	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.54	*		280	288	8.21	Co-elute PCB 98		
PCB-95	4.00e+06	1.65	y	33:08	1.08	2680		-	-	*			
PCB-93	*	*	n	NotFnd	0.98	*		280	288	4.51			
PCB-88	5.69e+05	1.58	y	33:31	1.06	390		-	-	*	Co-elute PCB 91		
PCB-91	5.69e+05	1.58	y	33:31	1.06	390		-	-	*	Co-elute PCB 88		
PCB-121	6.05e+06	1.63	y	33:36	1.10	3990		-	-	*			
13C-PCB-104	1.38e+07	1.66	y	30:06	0.50	10000					100	1.94e+06	1.24e+06
13C-PCB-28	5.57e+07	1.11	y	26:47	1.97	10300					103	6.21e+06	5.76e+06
13C-PCB-52	2.74e+07	0.80	y	29:02	-	48.8							

PCB-56	4.30e+06	0.76	y	34:04	1.08	1010	-	-	*			Co-elute PCB 60
PCB-60	4.30e+06	0.76	y	34:04	1.08	1010	-	-	*			Co-elute PCB 56
PCB-79	1.35e+05	0.77	y	35:04	1.14	29.9	-	-	*			
PCB-78	1.03e+07	0.79	y	35:46	1.09	2370	-	-	*			
PCB-81	2.17e+05	0.86	y	36:15	1.14	48.3	-	-	*			
13C-PCB-81	3.93e+07	0.81	y	36:14	1.57	11200				112	3.39e+06	4.20e+06
PCB-77	4.37e+05	0.80	y	36:49	1.11	99.0	-	-	*			
13C-PCB-77	3.98e+07	0.81	y	36:48	1.61	11000				110	3.31e+06	4.13e+06
PCB-155	6.72e+06	1.30	y	34:18	1.24	3630	-	-	*			
PCB-150	*	*	n	NotFnd	1.13	*	468	272	5.17			
PCB-152	*	*	n	NotFnd	1.06	*	468	272	5.51			
PCB-145	*	*	n	NotFnd	1.10	*	468	272	5.28			
PCB-136	7.95e+05	1.26	y	36:40	1.06	502	-	-	*			
PCB-148	*	*	n	NotFnd	0.84	*	468	272	6.94			
PCB-154	7.88e+04	1.25	y	37:15	0.97	54.1	-	-	*			
13C-PCB-155	1.49e+07	1.29	y	34:16	0.67	9900				99.0	1.82e+06	1.36e+06
13C-PCB-111	2.48e+07	1.62	y	36:23	1.16	9540				95.4	3.07e+06	1.87e+06
13C-PCB-101	2.25e+07	1.62	y	34:44	-	47.4						
PCB-84	3.18e+06	1.58	y	34:23	0.61	1390	-	-	*			Co-elute PCB 92
PCB-92	3.18e+06	1.58	y	34:23	0.61	1390	-	-	*			Co-elute PCB 84
PCB-89	1.17e+05	1.71	y	34:33	0.58	53.6	-	-	*			
PCB-90	7.64e+06	1.61	y	34:45	0.68	3000	-	-	*			Co-elute PCB 101
PCB-101	7.64e+06	1.61	y	34:45	0.68	3000	-	-	*			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.77	*	881	805	7.38			
PCB-99	3.25e+06	1.58	y	35:04	0.75	1160	-	-	*			
PCB-119	2.15e+05	1.59	y	35:30	0.81	70.3	-	-	*			
PCB-83	3.58e+05	1.62	y	35:40	0.69	139	-	-	*			Co-elute PCB 112
PCB-112	3.58e+05	1.62	y	35:40	0.69	139	-	-	*			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.82	*	881	805	6.90			
PCB-97	1.88e+06	1.58	y	35:59	0.73	690	-	-	*			
PCB-86	*	*	n	NotFnd	0.70	*	881	805	8.05			
PCB-125	2.78e+06	1.58	y	36:15	0.72	1020	-	-	*			Co-elute PCB 87/117
PCB-87	2.78e+06	1.58	y	36:15	0.72	1020	-	-	*			Co-elute PCB 125/117
PCB-117	2.78e+06	1.58	y	36:15	0.72	1020	-	-	*			Co-elute PCB 125/87
PCB-111	1.34e+05	1.63	y	36:23	0.99	35.9	-	-	*			Co-elute PCB 115
PCB-115	1.34e+05	1.63	y	36:23	0.99	35.9	-	-	*			Co-elute PCB 111
PCB-85	1.06e+06	1.62	y	36:30	0.71	398	-	-	*			Co-elute PCB 116
PCB-116	1.06e+06	1.62	y	36:30	0.71	398	-	-	*			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.81	*	881	805	6.97			
PCB-110	7.77e+06	1.54	y	36:53	0.96	2160	-	-	*			
PCB-82	6.13e+05	1.62	y	37:28	0.50	327	-	-	*			
PCB-124	3.40e+05	1.48	y	38:08	0.91	99.8	-	-	*			
PCB-108	5.10e+05	1.44	y	38:18	1.07	127	-	-	*			Co-elute PCB 107
PCB-107	5.10e+05	1.44	y	38:18	1.07	127	-	-	*			Co-elute PCB 108
PCB-123	1.15e+05	1.54	y	38:27	1.23	25.3	-	-	*			
13C-PCB-123	3.67e+07	1.60	y	38:25	1.40	10900				109	4.70e+06	3.02e+06
PCB-118	6.23e+06	1.54	y	38:36	1.03	1590	-	-	*			Co-elute PCB 106
PCB-106	6.23e+06	1.54	y	38:36	1.03	1590	-	-	*			Co-elute PCB 118
13C-PCB-118	3.79e+07	1.59	y	38:36	1.53	10300				103	4.40e+06	2.79e+06
PCB-114	2.07e+05	1.38	y	39:14	1.07	50.9	-	-	*			
13C-PCB-114	3.80e+07	1.63	y	39:13	1.46	10800				108	4.76e+06	2.85e+06
PCB-122	1.19e+05	1.62	y	39:21	1.10	28.8	-	-	*			
PCB-105	2.57e+06	1.61	y	40:04	1.08	638	-	-	*			
13C-PCB-105	3.74e+07	1.62	y	40:02	1.44	10800				108	4.49e+06	2.77e+06

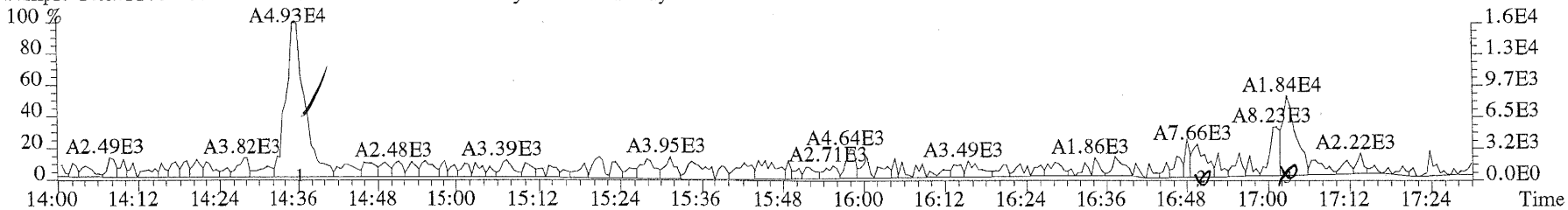
PCB-127	*	*	n	NotFnd	0.99	*		520	720	4.21				
PCB-126	3.46e+04	1.50	y	42:10	1.12	8.64	J	-	-	*				
13C-PCB-126	3.58e+07	1.61	y	42:10	1.35	11100					111	4.10e+06	2.52e+06	
PCB-151	1.61e+06	1.26	y	37:52	0.85	714		-	-	*				
PCB-135	8.75e+05	1.28	y	38:04	0.82	401		-	-	*				
PCB-144	4.00e+05	1.24	y	38:10	0.93	162		-	-	*				
PCB-147	1.25e+05	1.21	y	38:18	0.92	51.2		-	-	*				
PCB-139	5.73e+06	1.29	y	38:31	0.98	2210		-	-	*		Co-elute PCB 149		
PCB-149	5.73e+06	1.29	y	38:31	0.98	2210		-	-	*		Co-elute PCB 139		
PCB-140	5.86e+04	1.35	y	38:43	0.95	23.2		-	-	*				
PCB-143	3.23e+05	1.25	y	39:08	0.90	136		-	-	*		Co-elute PCB 134		
PCB-134	3.23e+05	1.25	y	39:08	0.90	136		-	-	*		Co-elute PCB 143		
PCB-131	1.75e+05	1.25	y	39:24	0.90	72.8		-	-	*		Co-elute PCB 133		
PCB-133	1.75e+05	1.25	y	39:24	0.90	72.8		-	-	*		Co-elute PCB 131		
PCB-142	1.21e+07	1.29	y	39:34	0.77	5930		-	-	*				
PCB-165	1.04e+06	1.34	y	39:47	1.05	373		-	-	*		Co-elute PCB 146		
PCB-146	1.04e+06	1.34	y	39:47	1.05	373		-	-	*		Co-elute PCB 165		
PCB-161	1.95e+06	1.29	y	40:02	1.00	740		-	-	*		Co-elute PCB 132		
PCB-132	1.95e+06	1.29	y	40:02	1.00	740		-	-	*		Co-elute PCB 161		
PCB-153	5.98e+06	1.27	y	40:10	1.01	2230		-	-	*				
PCB-168	*	*	n	NotFnd	1.15	*		570	540	4.41				
PCB-141	1.04e+06	1.24	y	40:51	0.89	440		-	-	*				
PCB-137	1.98e+05	1.28	y	41:14	0.90	82.7		-	-	*				
PCB-130	3.36e+05	1.15	y	41:19	0.76	167		-	-	*				
PCB-138	5.96e+06	1.25	y	41:41	1.17	1910		-	-	*		Co-elute PCB 163/164		
PCB-163	5.96e+06	1.25	y	41:41	1.17	1910		-	-	*		Co-elute PCB 138/164		
PCB-164	5.96e+06	1.25	y	41:41	1.17	1910		-	-	*		Co-elute PCB 138/163		
PCB-158	7.52e+05	1.30	y	41:54	1.18	240		-	-	*		Co-elute PCB 160		
PCB-160	7.52e+05	1.30	y	41:54	1.18	240		-	-	*		Co-elute PCB 158		
PCB-129	2.32e+05	1.27	y	42:09	0.77	114		-	-	*				
PCB-166	*	*	n	NotFnd	1.08	*		570	540	4.71				
PCB-159	8.10e+04	1.26	y	42:55	1.19	25.6		-	-	*				
PCB-128	7.82e+05	1.27	y	43:08	0.98	301		-	-	*		Co-elute PCB 162		
PCB-162	7.82e+05	1.27	y	43:08	0.98	301		-	-	*		Co-elute PCB 128		
PCB-167	2.04e+05	1.11	y	43:33	1.05	72.5		-	-	*				
13C-PCB-167	2.67e+07	1.29	y	43:31	1.12	9900					99.0	3.00e+06	2.36e+06	
PCB-156	4.59e+05	1.24	y	44:47	1.11	159		-	-	*				
13C-PCB-156	2.60e+07	1.31	y	44:45	1.07	10100					101	3.03e+06	2.32e+06	
PCB-157	8.70e+04	1.37	y	45:00	1.14	28.1		-	-	*				
13C-PCB-157	2.70e+07	1.32	y	45:00	1.12	10100					101	3.06e+06	2.31e+06	
PCB-169	*	*	n	NotFnd	1.07	*		570	540	4.52				
13C-PCB-169	2.64e+07	1.29	y	46:52	1.08	10200					102	3.25e+06	2.50e+06	

FAL ID: 11704-004-0001-SA Filename: 25JUL18Z Sam:7 Acquired: 25-JUL-18 13:14:16 ICal: DAILY209FAL4-7-25-18
Client ID: LDW-Y1-SU-ENR-CC-S010 ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

PCB-188	*	*	n	NotFnd	1.21	*		444	404	4.62			
13C-PCB-188	1.83e+07	1.08	y	39:46	0.80	9500					95.0	1.95e+06	1.84e+06
PCB-184	1.03e+07	1.07	y	40:14	1.25	4630		-	-	*			
PCB-179	6.03e+05	1.05	y	40:58	1.15	295		-	-	*			
PCB-176	1.89e+05	1.09	y	41:23	1.14	93.7		-	-	*			
PCB-186	*	*	n	NotFnd	1.19	*		444	404	4.23			
PCB-178	1.74e+05	0.94	y	42:27	0.83	118		-	-	*			
PCB-175	3.26e+04	0.95	y	42:45	0.88	20.8		-	-	*			
PCB-187	1.13e+06	1.07	y	42:55	0.99	641		-	-	*		Co-elute PCB 182	
PCB-182	1.13e+06	1.07	y	42:55	0.99	641		-	-	*		Co-elute PCB 187	
PCB-183	5.40e+05	1.11	y	43:15	0.93	326		-	-	*			
PCB-185	9.12e+04	1.00	y	43:51	0.88	58.1		-	-	*			
PCB-174	8.36e+05	1.15	y	44:11	0.89	529		-	-	*			
PCB-181	*	*	n	NotFnd	0.90	*		444	404	5.56			
PCB-177	4.69e+05	1.11	y	44:27	0.79	334		-	-	*			
PCB-171	2.20e+05	1.05	y	44:44	0.85	145		-	-	*			
PCB-173	2.57e+04	1.05	y	45:08	0.80	18.0	J	-	-	*			
PCB-172	3.29e+05	1.19	y	45:30	0.80	233		-	-	*			
PCB-192	6.77e+06	1.08	y	45:43	1.11	3440		-	-	*			
PCB-180	1.56e+06	1.11	y	45:53	1.09	804		-	-	*			
PCB-193	1.34e+05	1.06	y	46:03	1.16	65.0		-	-	*			
PCB-191	4.76e+04	1.05	y	46:16	1.08	24.8		-	-	*			
PCB-170	5.52e+05	1.11	y	47:10	0.77	402		-	-	*			
PCB-190	1.58e+05	1.12	y	47:18	1.09	82.0		-	-	*			
PCB-189	2.67e+04	1.07	y	48:32	1.17	13.3	J	-	-	*			
13C-PCB-189	1.72e+07	1.10	y	48:31	0.73	9840					98.4	2.49e+06	2.28e+06
PCB-202	4.14e+04	0.95	y	44:53	1.03	39.3		-	-	*			
PCB-201	2.90e+04	0.97	y	45:20	1.02	27.8		-	-	*			
PCB-204	1.04e+07	0.92	y	45:30	1.00	10200		-	-	*			
PCB-197	6.78e+04	0.91	y	45:44	1.08	61.5		-	-	*			
PCB-200	2.65e+04	0.79	y	46:30	1.01	25.9		-	-	*			
PCB-198	*	*	n	NotFnd	0.74	*		152	200	5.40			
PCB-199	1.44e+05	0.79	y	47:46	0.84	170		-	-	*			
PCB-203	1.74e+05	0.85	y	47:59	0.87	197		-	-	*		Co-elute PCB 196	
PCB-196	1.74e+05	0.85	y	47:59	0.87	197		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.02e+07	0.92	y	44:52	0.44	9680					96.8	1.05e+06	1.14e+06
13C-PCB-178	1.30e+07	1.08	y	42:25	0.60	8980					89.8	1.43e+06	1.29e+06
13C-PCB-138	2.40e+07	1.29	y	41:39	-	49.6							
PCB-195	1.73e+05	0.96	y	49:06	0.71	73.8		-	-	*			
PCB-194	4.00e+05	0.85	y	49:55	0.79	152		-	-	*			
PCB-205	2.92e+04	0.90	y	50:10	1.07	8.21	J	-	-	*			
13C-PCB-205	3.32e+07	0.92	y	50:09	1.23	9810					98.1	5.05e+06	5.49e+06
PCB-208	3.32e+04	1.36	y	49:13	1.01	12.5	J	-	-	*			
13C-PCB-208	2.63e+07	0.80	y	49:12	0.97	9850					98.5	3.67e+06	4.47e+06
PCB-207	1.08e+05	1.48	y	49:30	0.98	46.3		-	-	*			
PCB-206	8.77e+04	1.34	y	51:22	1.00	40.8		-	-	*			
13C-PCB-206	2.15e+07	0.81	y	51:21	0.88	8920					89.2	2.79e+06	3.44e+06
PCB-209	1.32e+05	1.14	y	52:32	1.12	52.8		-	-	*			
13C-PCB-209	2.24e+07	1.22	y	52:31	0.97	8420					84.2	3.97e+06	3.25e+06
13C-PCB-194	2.75e+07	0.91	y	49:53	-	50.6							

Analyst: [illegible] Date: 8/20/18

File:25JUL18Z #1-783 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



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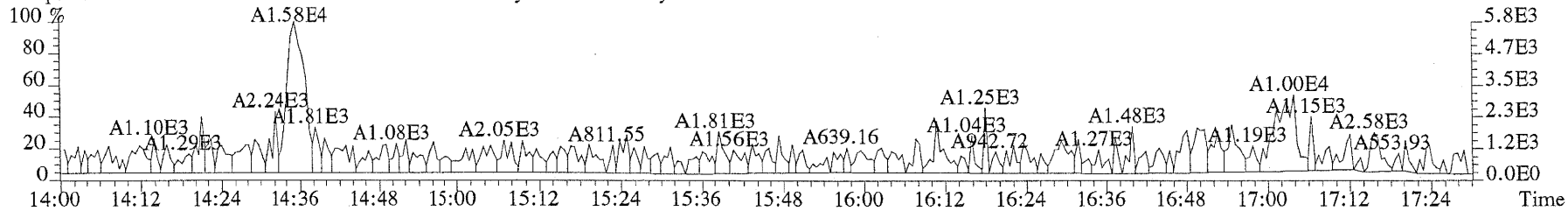
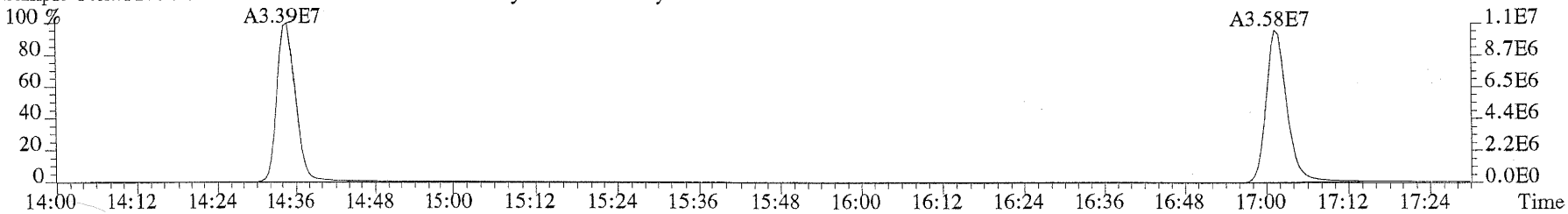
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-783 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



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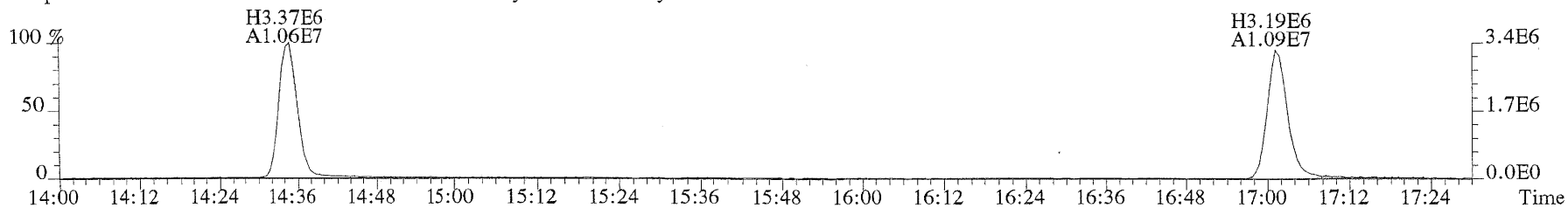
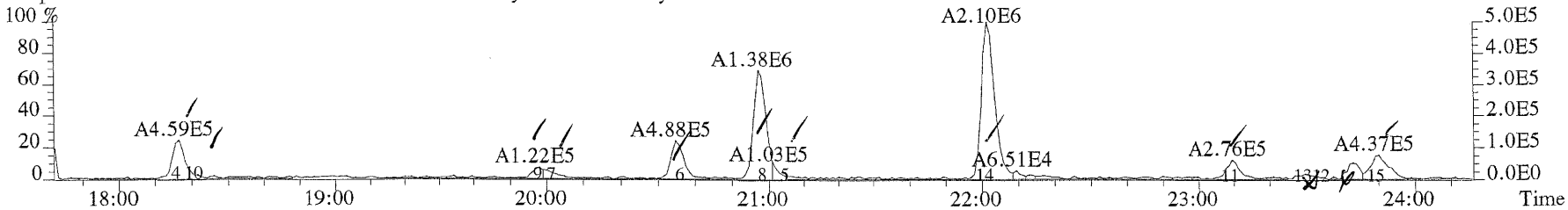
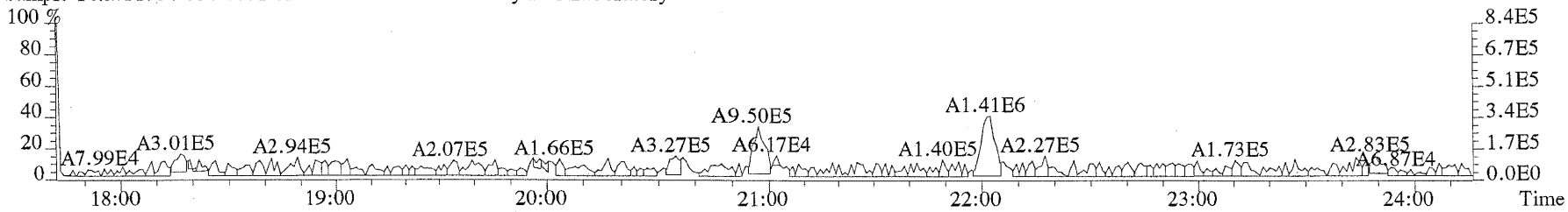
202.0766 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



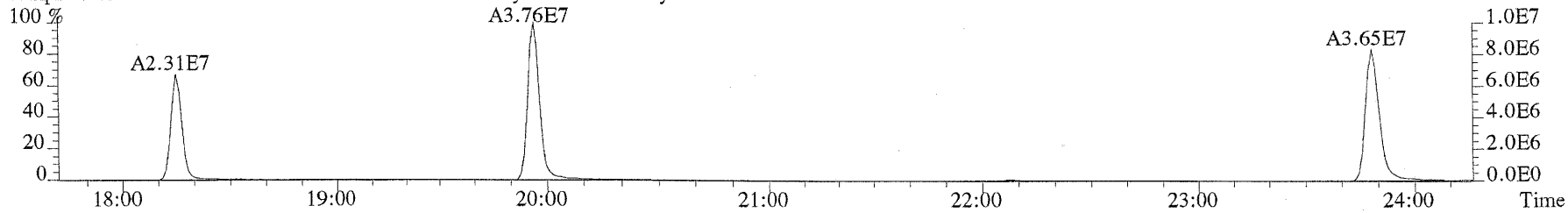
File:25JUL18Z #1-521 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-521 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-521 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



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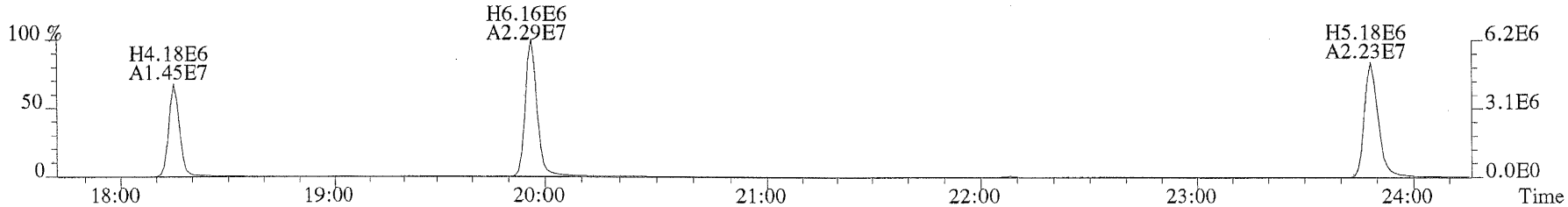
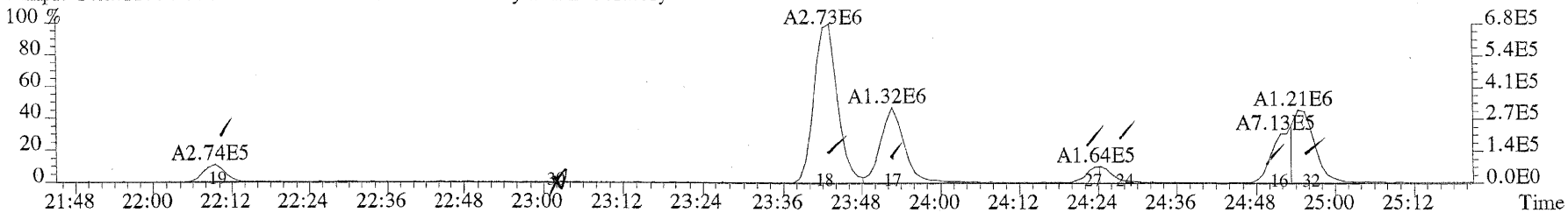
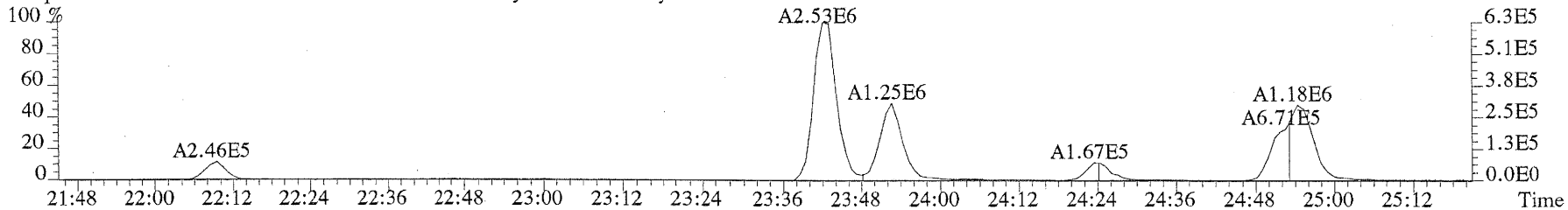
236.0376 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



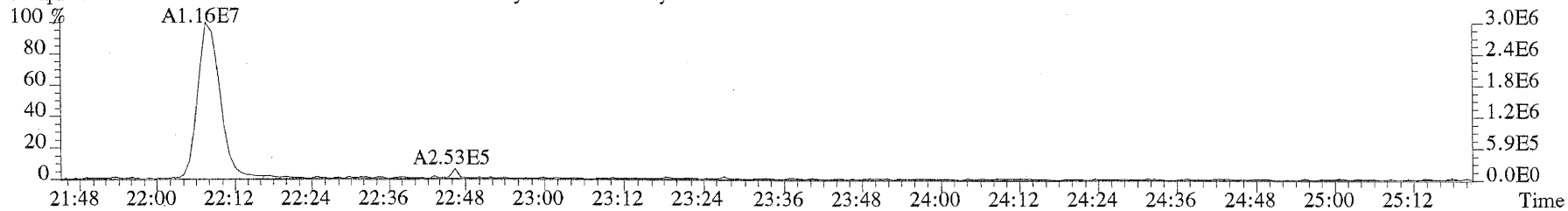
File:25JUL18Z #1-521 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



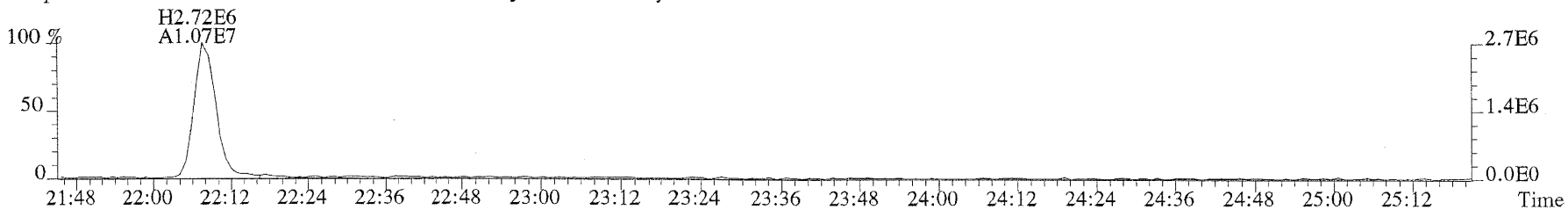
File:25JUL18Z #1-521 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



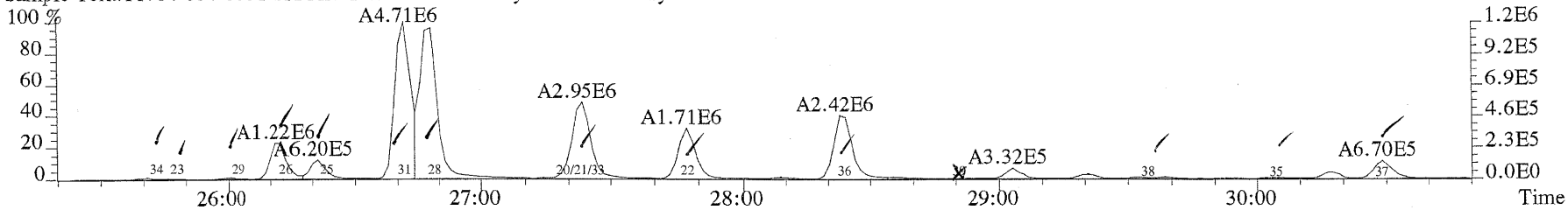
File:25JUL18Z #1-521 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



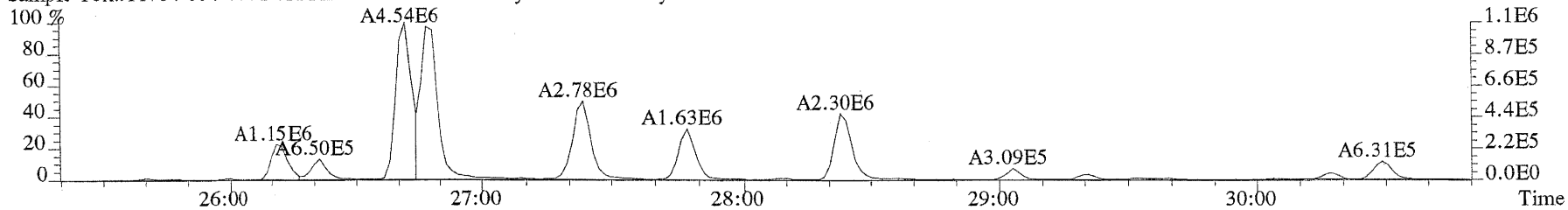
File:25JUL18Z #1-521 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



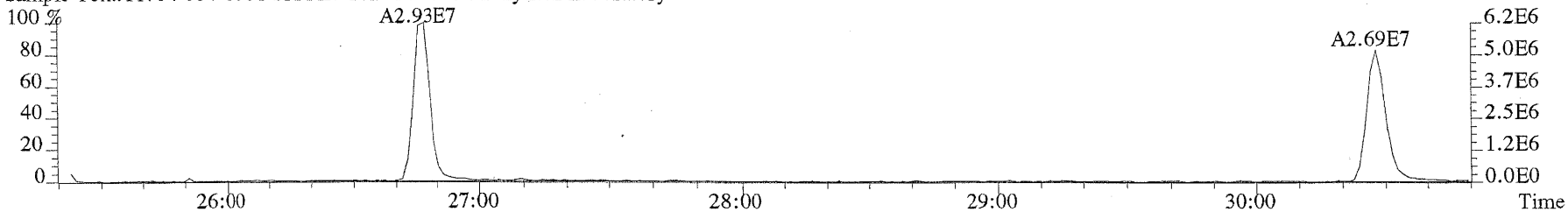
File:25JUL18Z #1-401 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-401 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-401 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-401 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 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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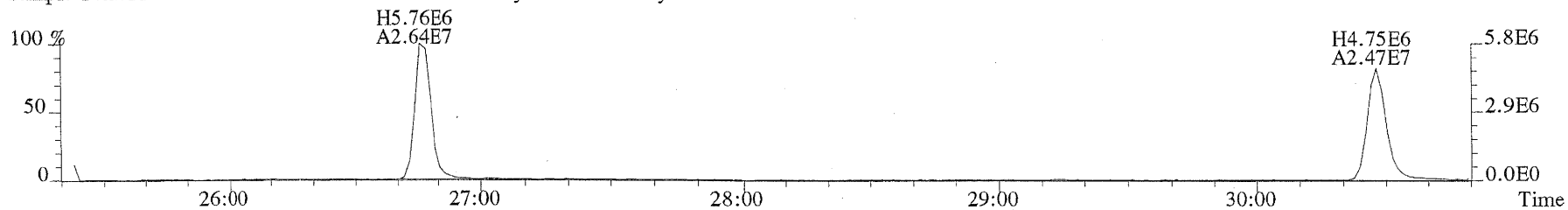
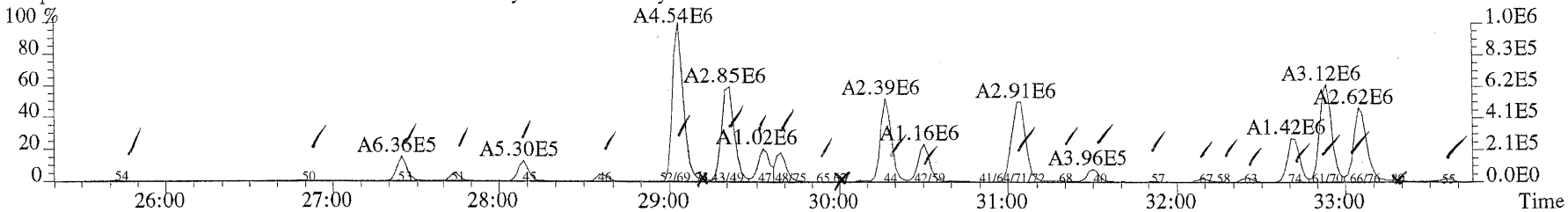
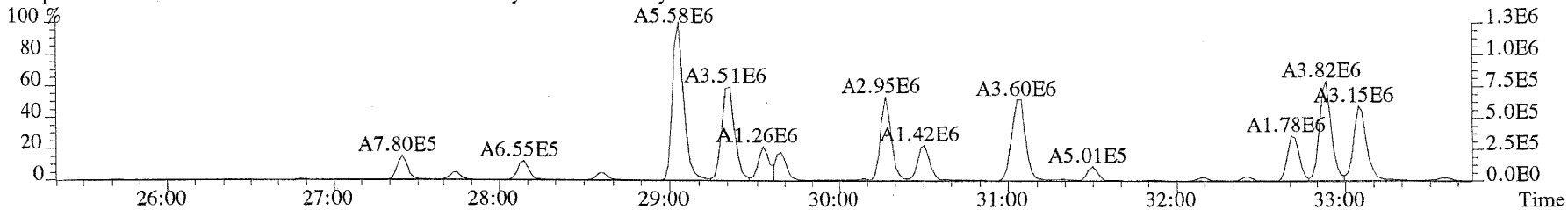


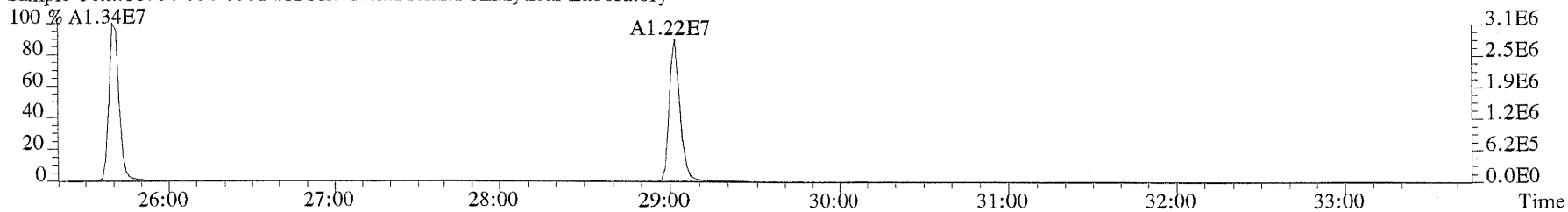
File:25JUL18Z #1-401 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



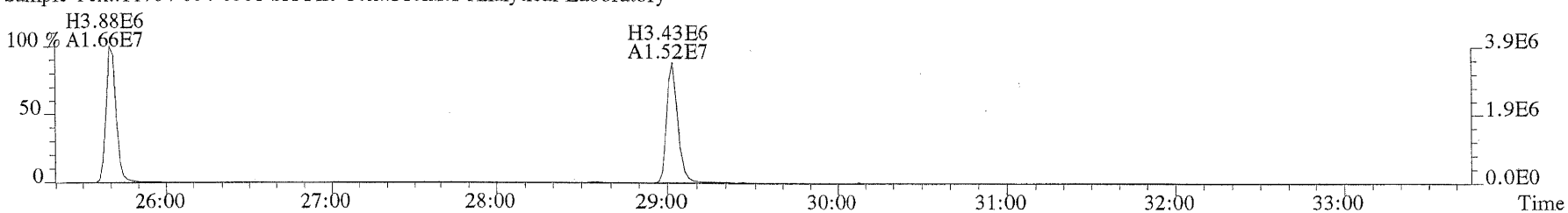
File:25JUL18Z #1-401 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



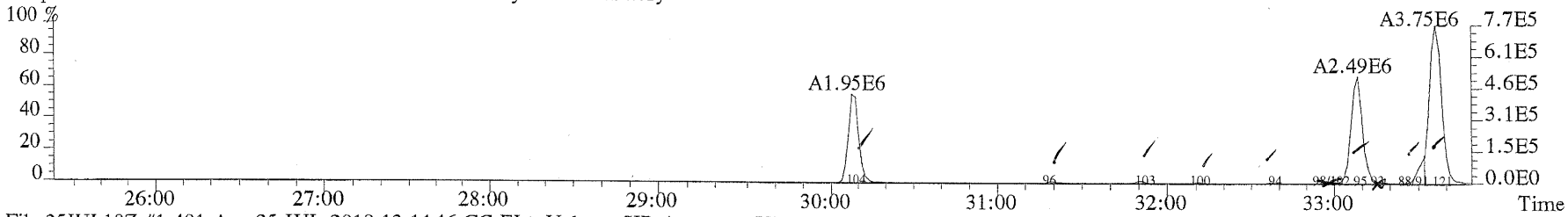
File:25JUL18Z #1-401 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



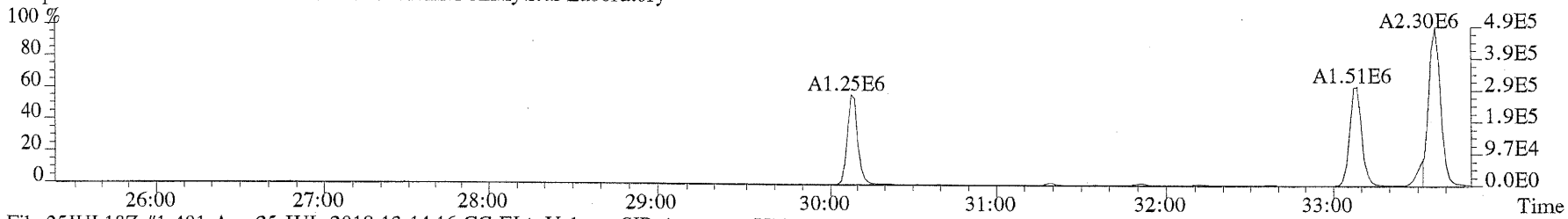
File:25JUL18Z #1-401 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



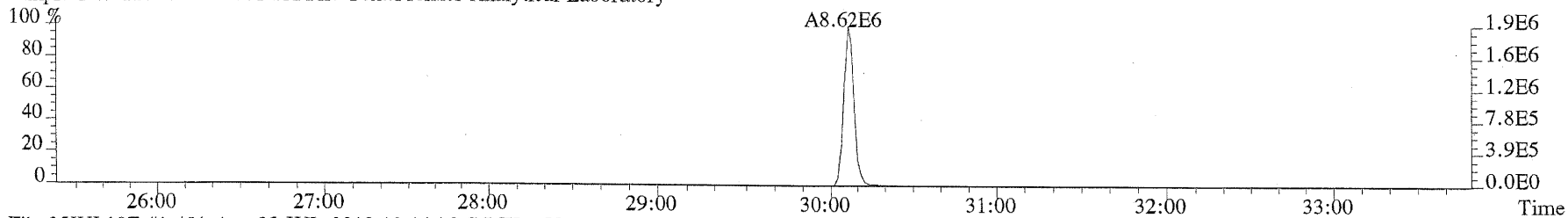
File:25JUL18Z #1-401 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



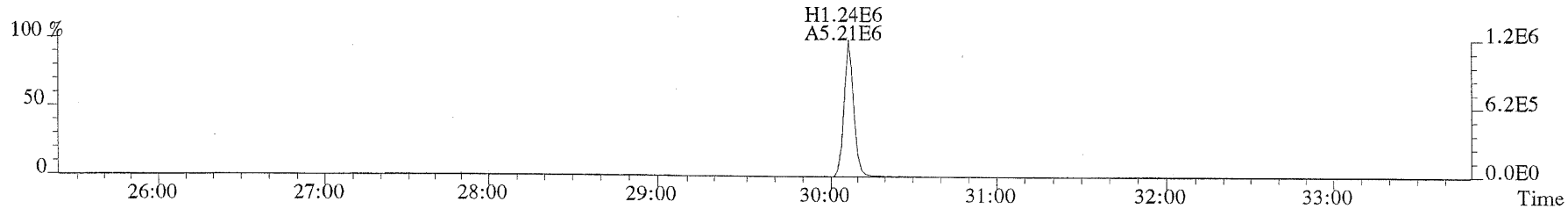
File:25JUL18Z #1-401 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



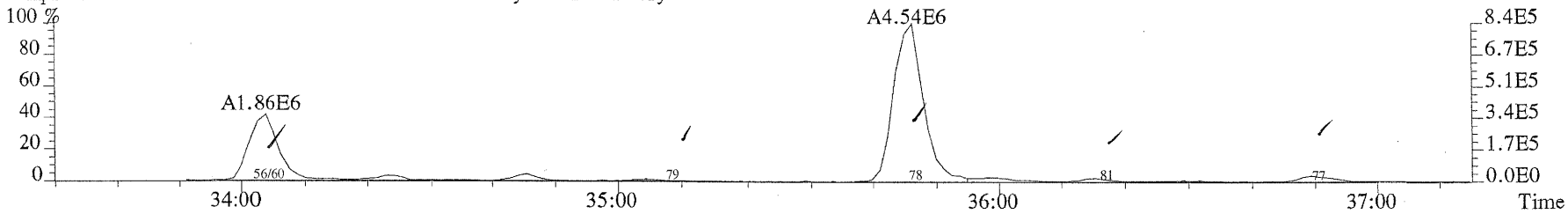
File:25JUL18Z #1-401 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



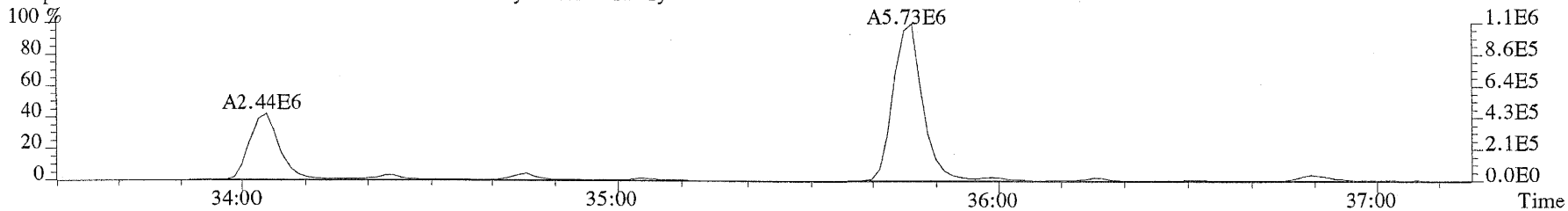
File:25JUL18Z #1-401 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



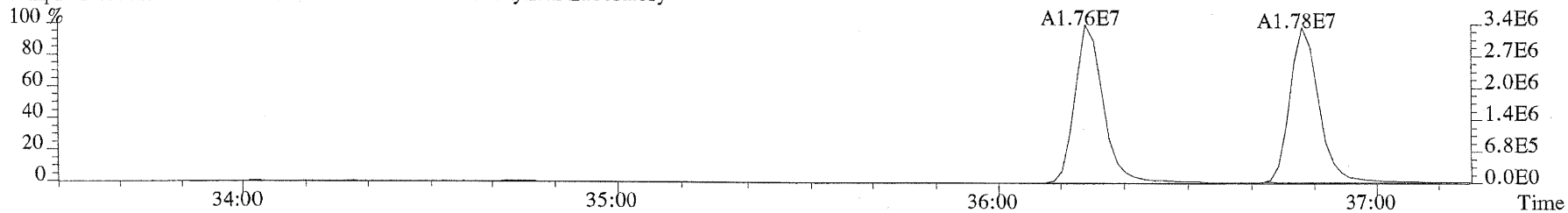
File:25JUL18Z #1-183 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



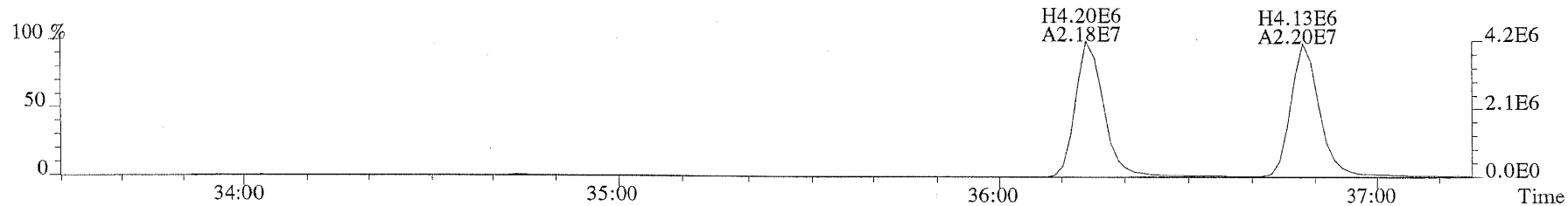
File:25JUL18Z #1-183 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



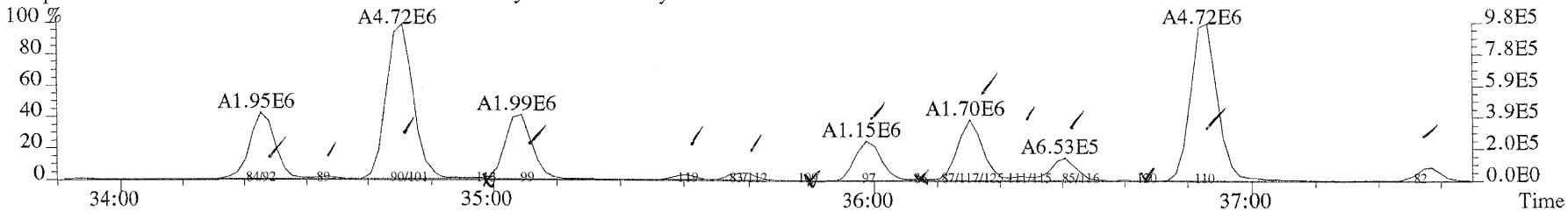
File:25JUL18Z #1-183 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



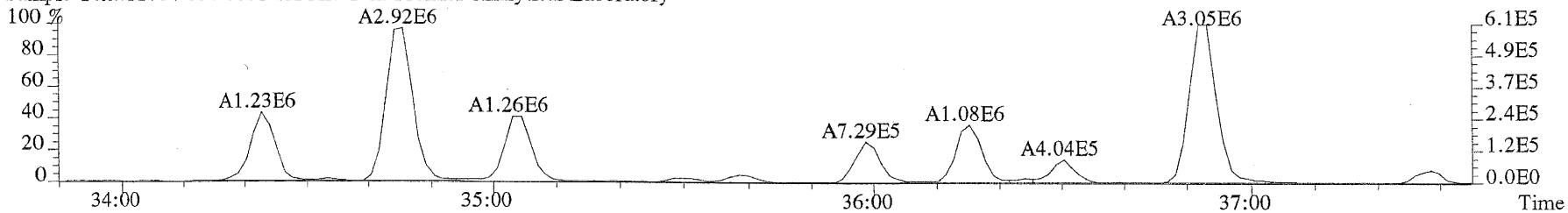
File:25JUL18Z #1-183 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



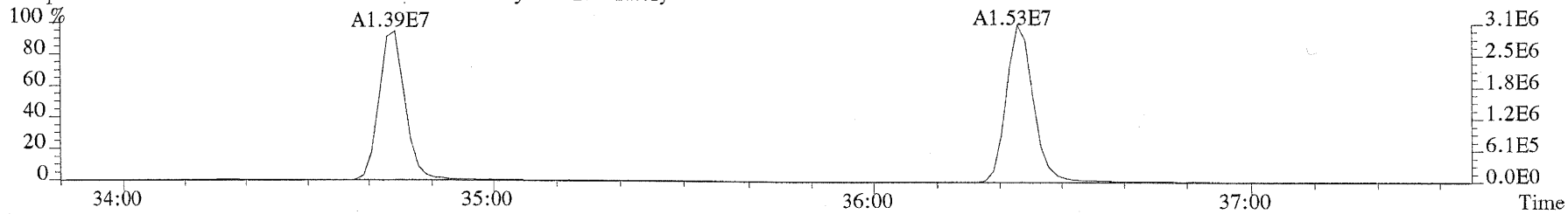
File:25JUL18Z #1-183 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



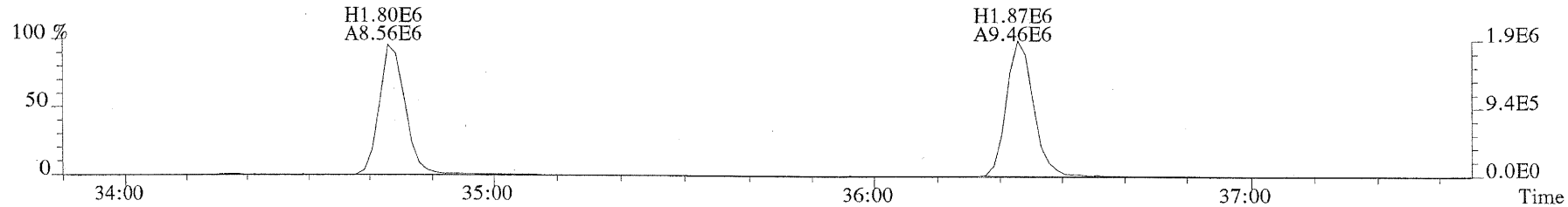
File:25JUL18Z #1-183 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



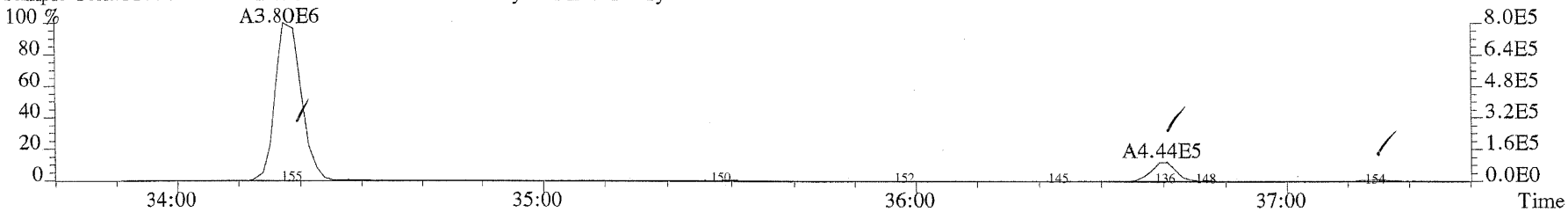
File:25JUL18Z #1-183 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



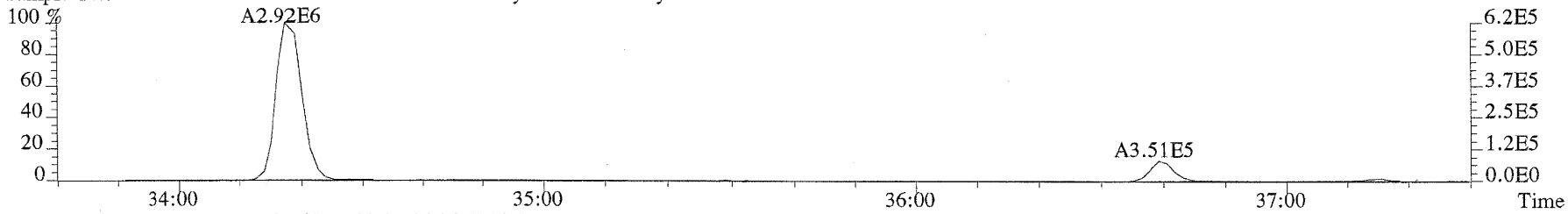
File:25JUL18Z #1-183 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



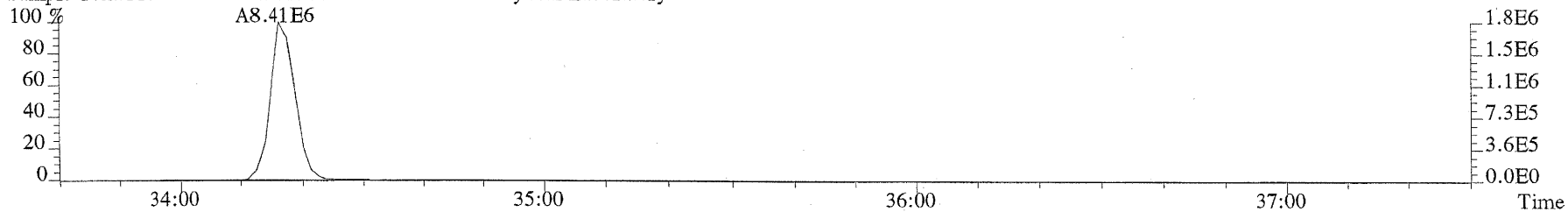
File:25JUL18Z #1-183 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



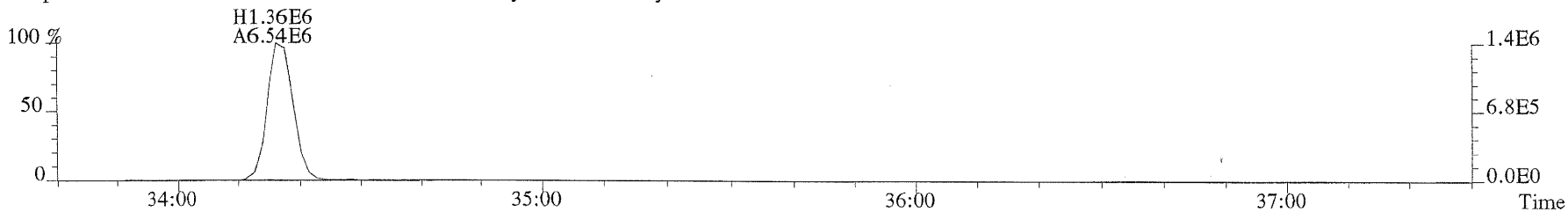
File:25JUL18Z #1-183 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



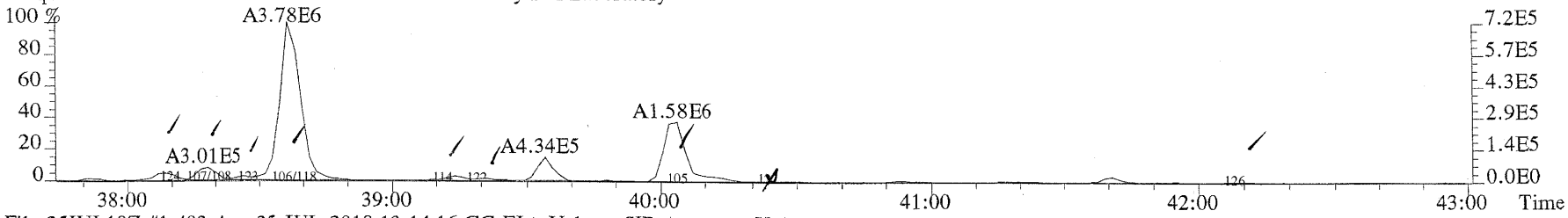
File:25JUL18Z #1-183 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



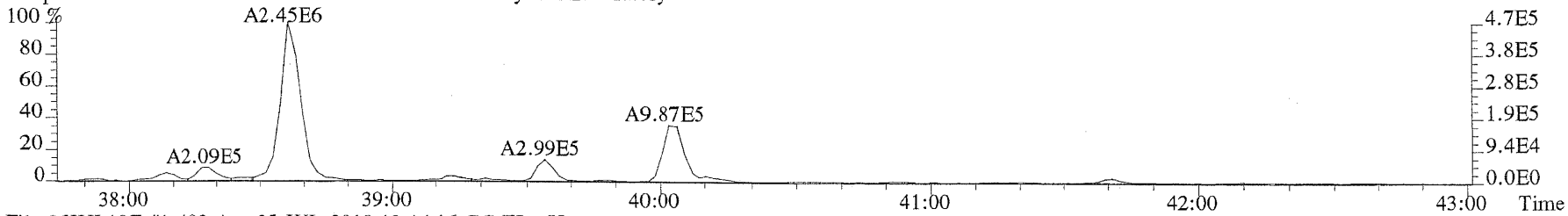
File:25JUL18Z #1-183 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



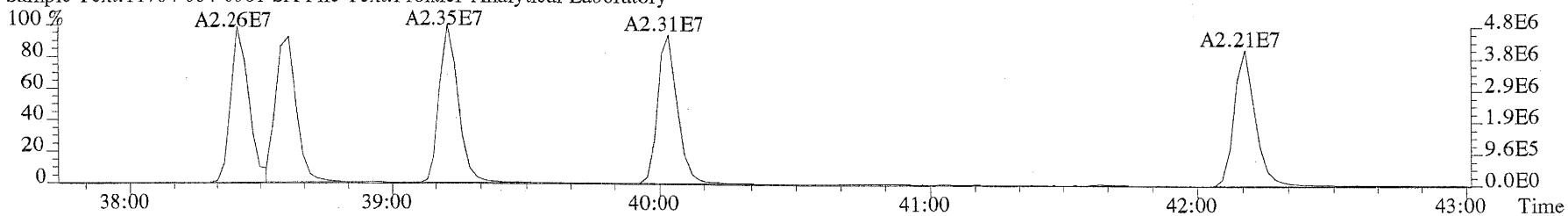
File:25JUL18Z #1-403 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



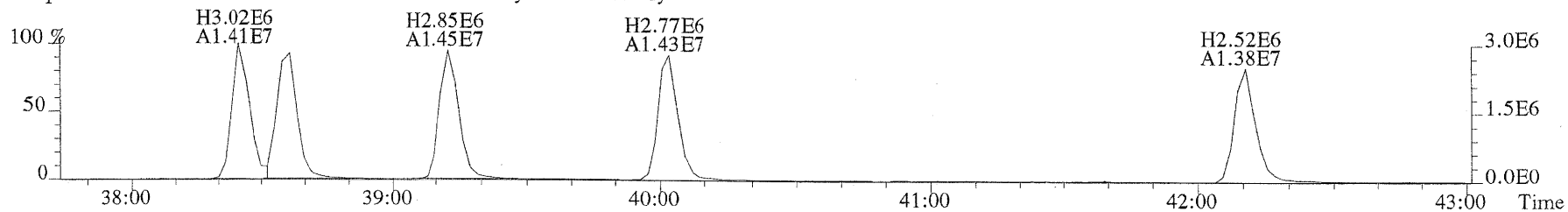
File:25JUL18Z #1-403 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



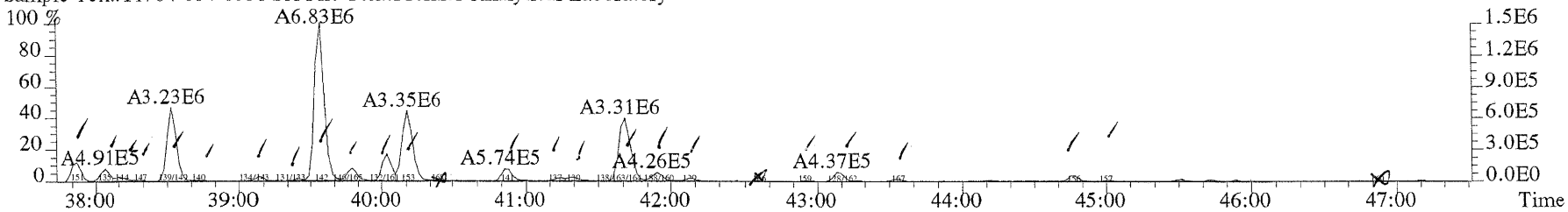
File:25JUL18Z #1-403 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



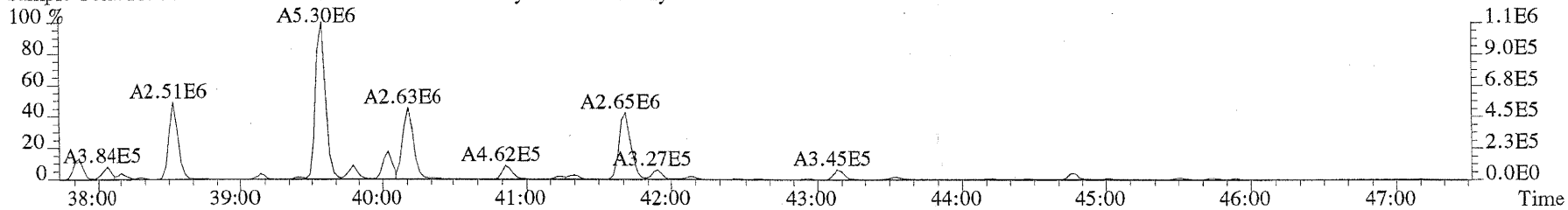
File:25JUL18Z #1-403 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



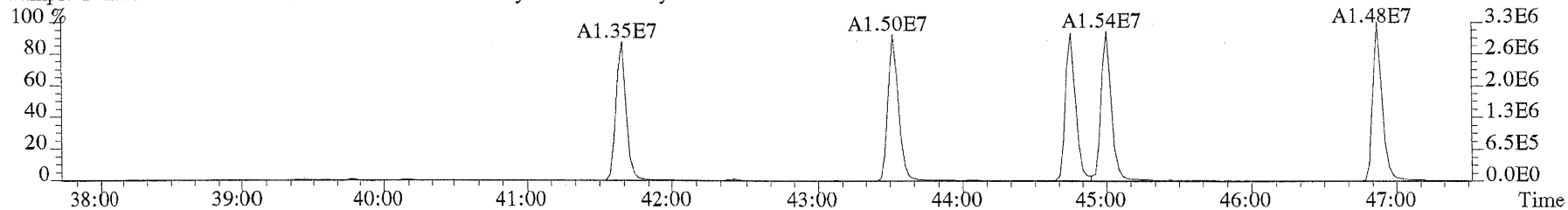
File:25JUL18Z #1-403 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



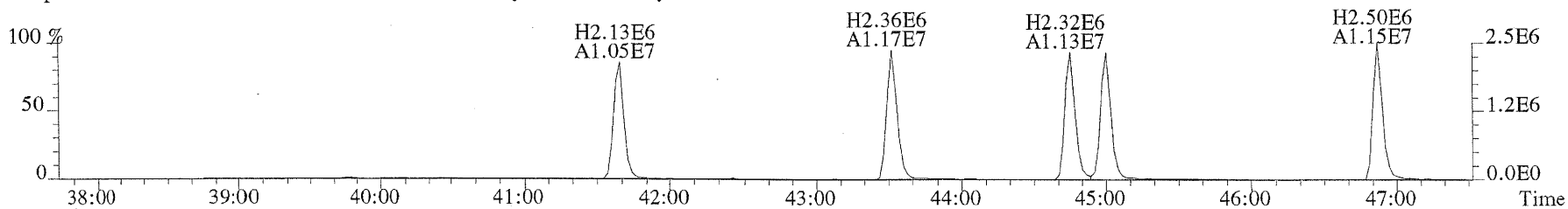
File:25JUL18Z #1-403 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



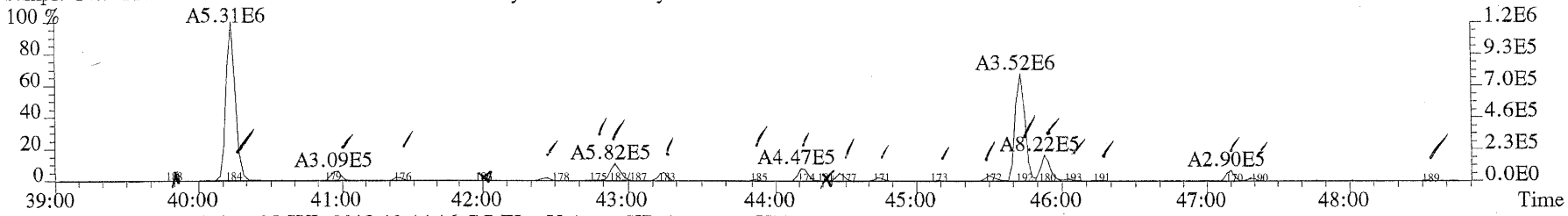
File:25JUL18Z #1-403 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



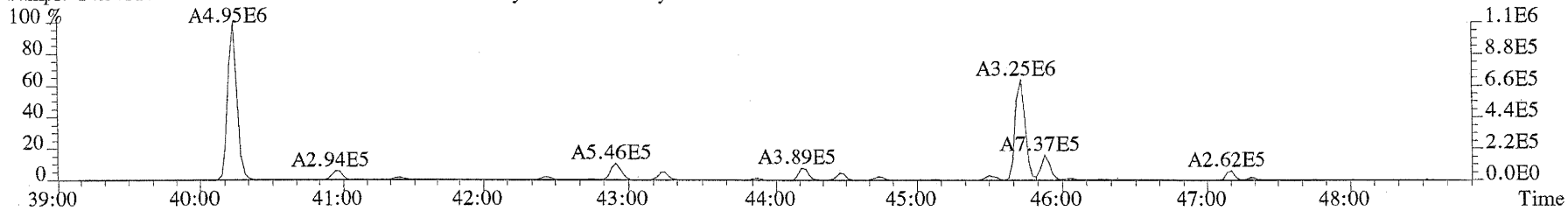
File:25JUL18Z #1-403 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



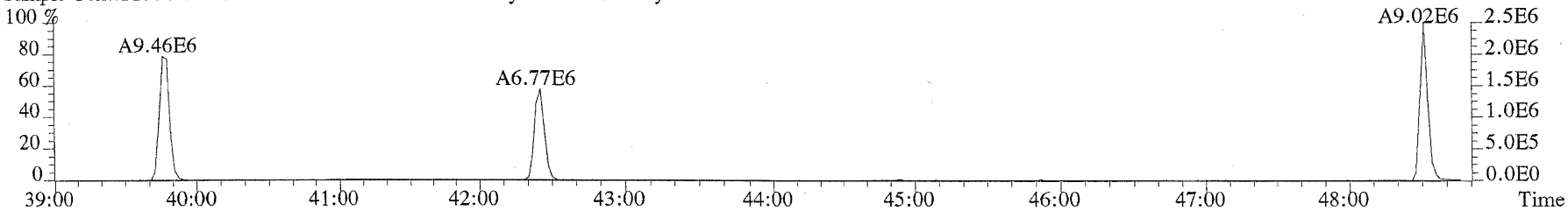
File:25JUL18Z #1-403 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-403 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-403 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



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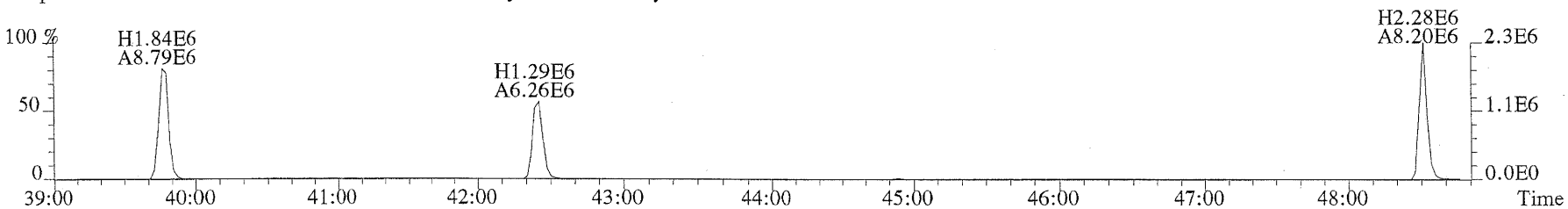
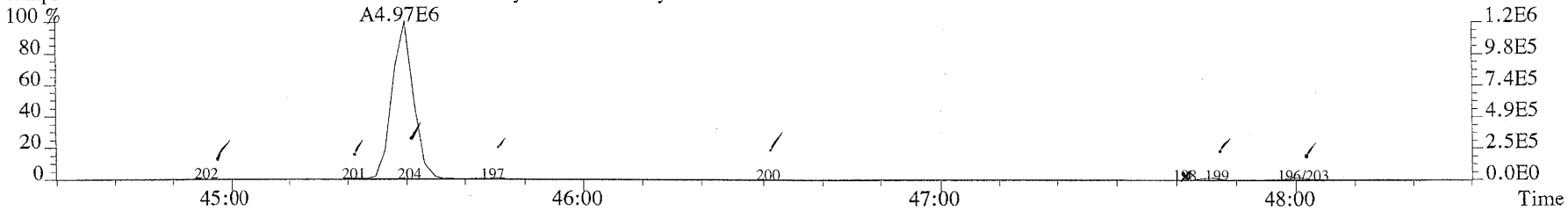
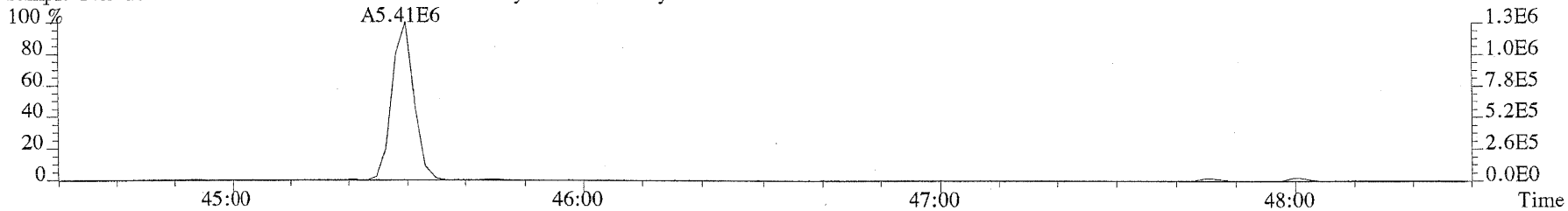
407.8398 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



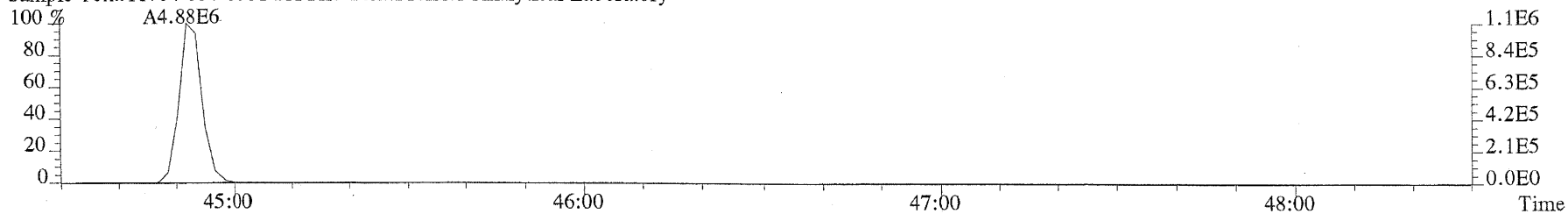
File:25JUL18Z #1-403 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



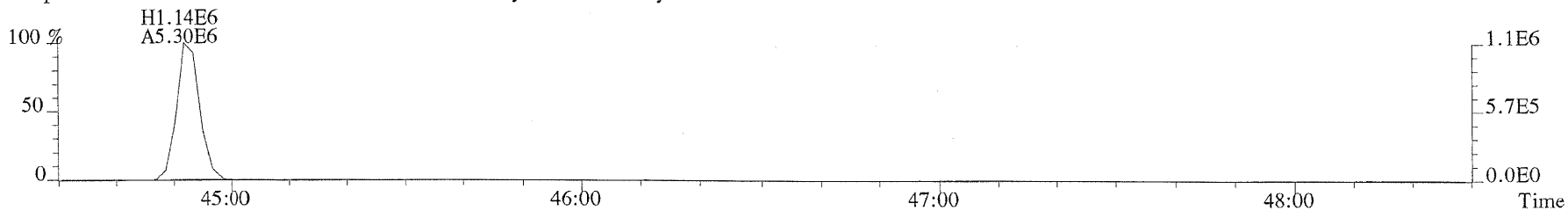
File:25JUL18Z #1-403 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



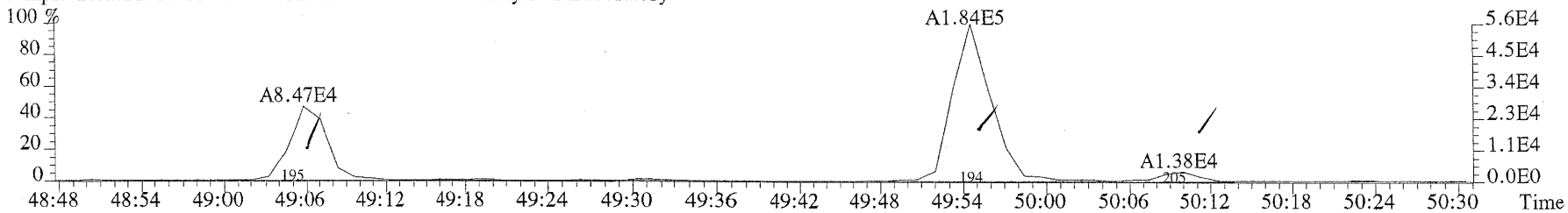
File:25JUL18Z #1-403 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-403 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-315 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



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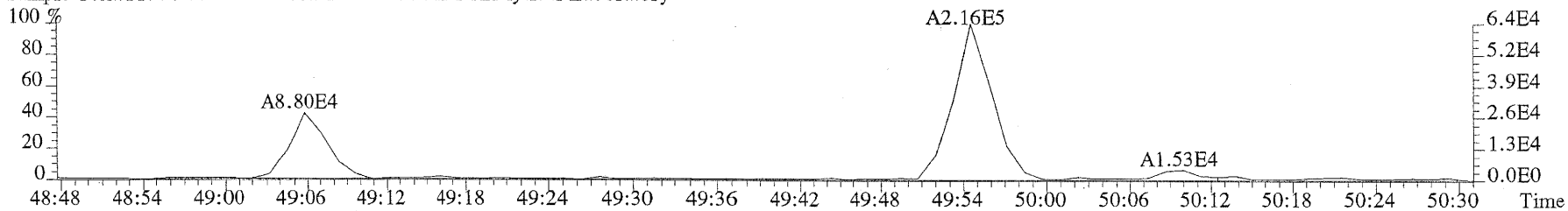
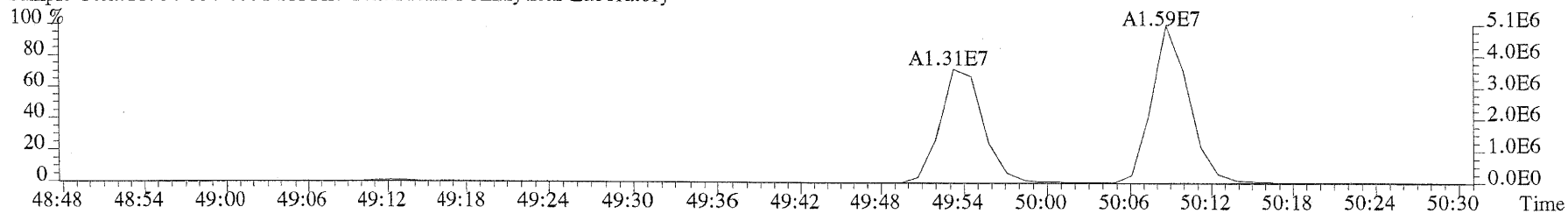
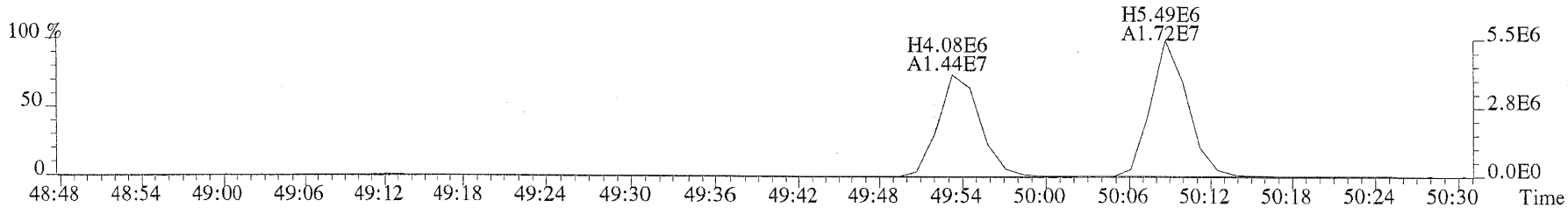
429.7606 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



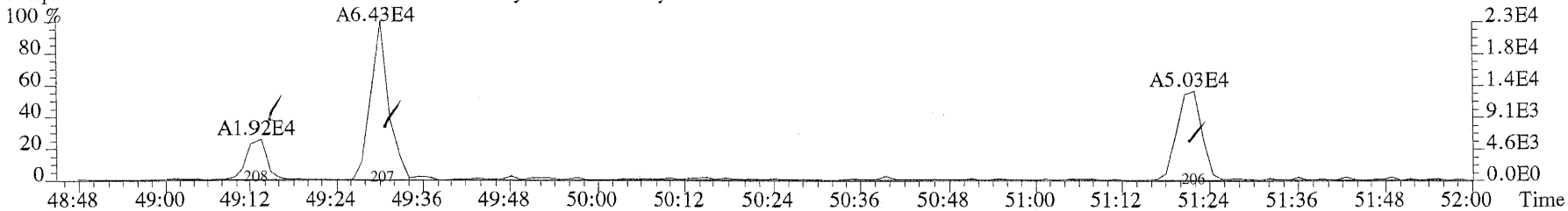
File:25JUL18Z #1-315 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



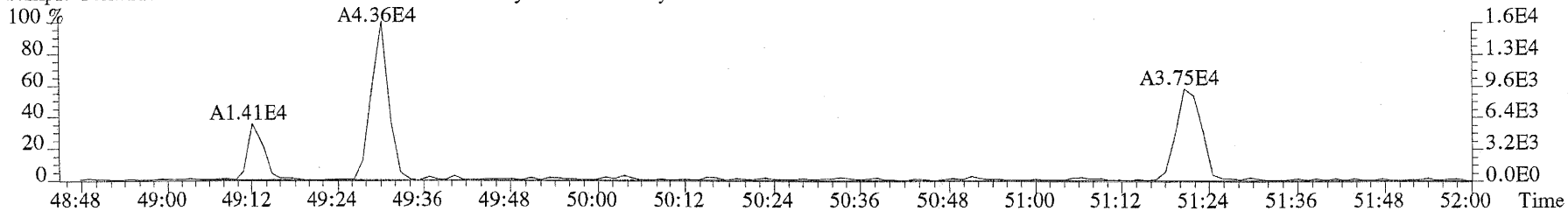
File:25JUL18Z #1-315 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



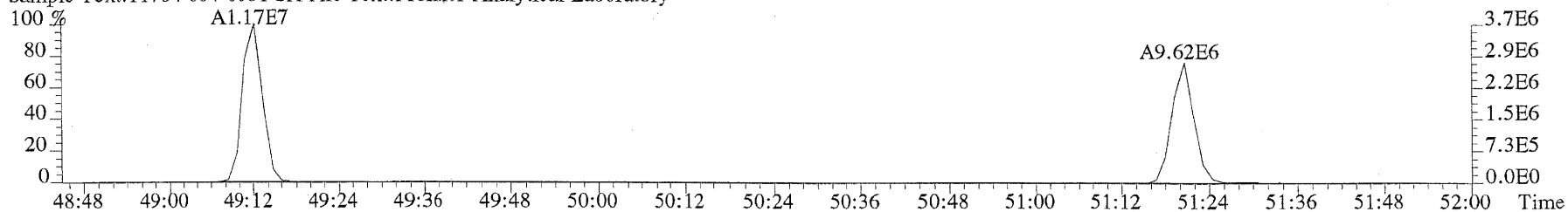
File:25JUL18Z #1-315 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



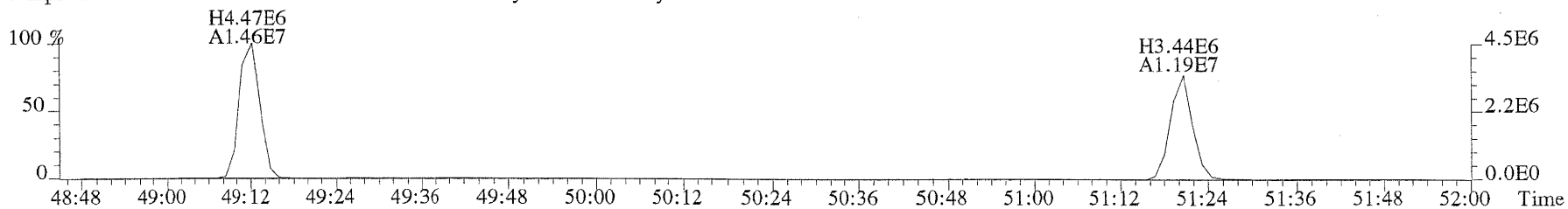
File:25JUL18Z #1-315 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



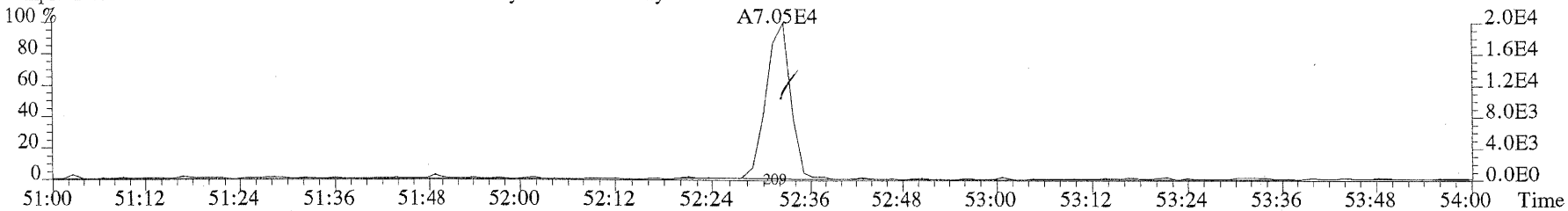
File:25JUL18Z #1-315 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



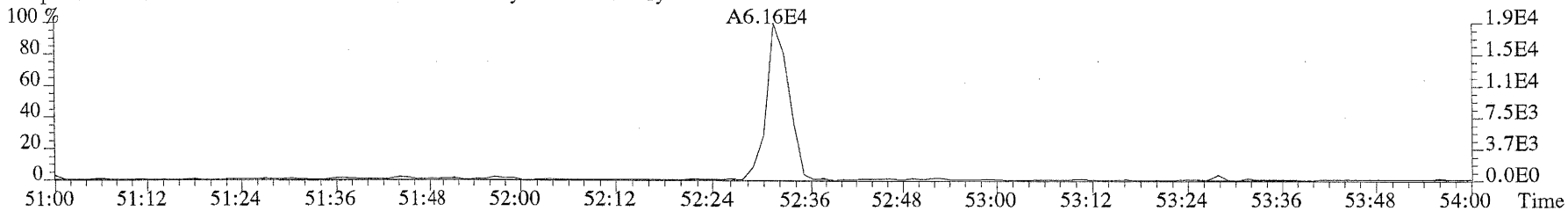
File:25JUL18Z #1-315 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



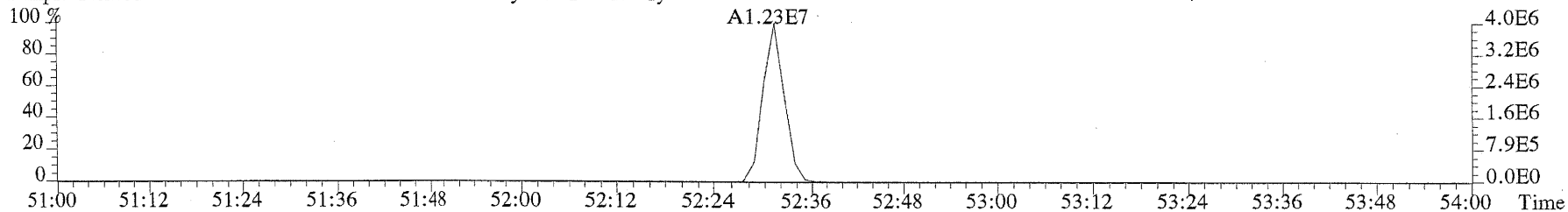
File:25JUL18Z #1-315 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-315 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-315 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-004-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-315 Acq:25-JUL-2018 13:14:16 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:7 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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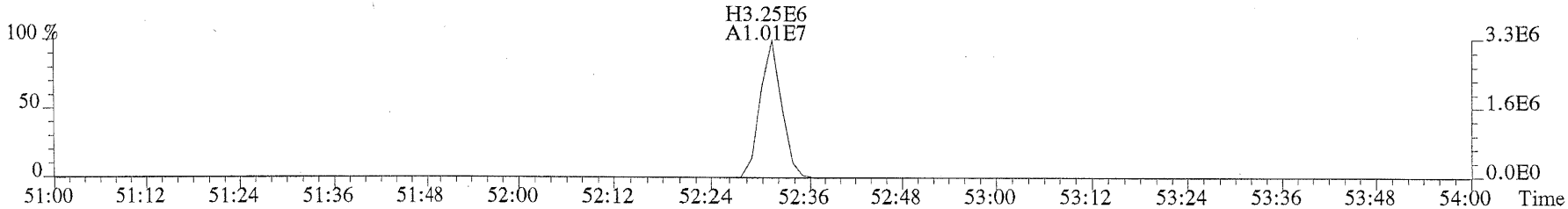

FAL ID: 11704-007-0001-SA Filename: 24JUL18Z Sam:4 Acquired: 24-JUL-18 15:01:01 ICal: DAILY209FAL4-7-24-18
Client ID: LDW-Y1-SU-S010-LCB ConCal: ST072418Z1 EndCal: ST072418Z2
Results: 11704-7 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	* n	NotFnd	1.06	*		2680	1970	2.97			
13C-PCB-1	1.09e+08	3.21 y	14:34	0.97	9170					91.7	2.82e+07	8.79e+06
PCB-2	*	* n	NotFnd	0.97	*		2680	1970	3.29			
PCB-3	*	* n	NotFnd	1.05	*		2680	1970	3.10			
13C-PCB-3	1.16e+08	3.22 y	17:01	0.99	9550					95.5	2.72e+07	8.55e+06
PCB-4	*	* n	NotFnd	1.16	*		1140	1900	2.93			
PCB-10	*	* n	NotFnd	1.09	*		1140	1900	2.66			
13C-PCB-4	7.50e+07	1.56 y	18:14	0.62	9810					98.1	1.36e+07	8.70e+06
PCB-9	*	* n	NotFnd	1.22	*		1140	1900	2.39			
PCB-7	*	* n	NotFnd	1.23	*		1140	1900	2.37			
PCB-6	*	* n	NotFnd	1.22	*		1140	1900	2.38			
PCB-8	*	* n	NotFnd	1.15	*		1140	1900	2.53			
PCB-5	*	* n	NotFnd	1.29	*		1140	1900	2.26			
PCB-14	4.80e+06	1.41 y	22:00	1.15	417		-	-	*			
PCB-11	8.64e+05	1.49 y	23:08	1.15	75.5		-	-	*			
PCB-13	*	* n	NotFnd	1.17	*		1140	1900	2.48			
PCB-12	*	* n	NotFnd	1.23	*		1140	1900	2.37			
PCB-15	*	* n	NotFnd	1.10	*		1140	1900	2.38			
13C-PCB-15	1.25e+08	1.60 y	23:47	0.99	10200					102	1.79e+07	1.12e+07
PCB-19	2.43e+04	1.15 y	22:08	1.14	3.65	J	-	-	*			
PCB-30	*	* n	NotFnd	1.58	*		1020	832	1.86			
PCB-18	1.27e+05	1.16 y	23:41	1.13	19.2	J	-	-	*			
PCB-17	4.93e+04	1.11 y	23:52	1.20	7.02	J	-	-	*			
PCB-27	*	* n	NotFnd	1.55	*		1020	832	1.90			
PCB-24	*	* n	NotFnd	1.63	*		1020	832	1.80			
PCB-16	6.96e+04	1.19 y	24:50	1.29	9.24	J	-	-	*			
PCB-32	2.81e+04	1.01 y	24:55	1.45	3.32	J	-	-	*			
13C-PCB-19	5.85e+07	1.05 y	22:07	0.51	9440					94.4	8.21e+06	7.51e+06
13C-PCB-9	1.23e+08	1.59 y	19:55	-	163							
PCB-34	*	* n	NotFnd	0.92	*		1060	912	2.45			
PCB-23	*	* n	NotFnd	1.04	*		1060	912	2.18			
PCB-29	*	* n	NotFnd	1.03	*		1060	912	2.20			
PCB-26	*	* n	NotFnd	0.99	*		1060	912	2.30			
PCB-25	*	* n	NotFnd	1.22	*		1060	912	1.86			
PCB-31	1.14e+05	1.11 y	26:41	1.02	10.1	J	-	-	*			
PCB-28	1.34e+05	0.96 y	26:46	1.14	10.7	J	-	-	*			
PCB-20	9.78e+04	1.10 y	27:21	1.06	8.34	J	-	-	*		Co-elute PCB 21/33	
PCB-21	9.78e+04	1.10 y	27:21	1.06	8.34	J	-	-	*		Co-elute PCB 20/33	
PCB-33	9.78e+04	1.10 y	27:21	1.06	8.34	J	-	-	*		Co-elute PCB 20/21	
PCB-22	5.94e+04	1.17 y	27:45	1.09	4.94	J	-	-	*			
PCB-36	9.36e+06	1.08 y	28:22	1.00	853		-	-	*			
PCB-39	*	* n	NotFnd	1.03	*		1060	912	2.19			
PCB-38	*	* n	NotFnd	1.05	*		1060	912	2.15			
PCB-35	*	* n	NotFnd	0.97	*		1060	912	2.32			
PCB-37	*	* n	NotFnd	1.16	*		1060	912	1.95			
13C-PCB-37	1.10e+08	1.08 y	30:26	1.50	10700					107	1.13e+07	1.05e+07

PCB-54	*	*	n	NotFnd	1.12	*		804	820	1.89			
PCB-50	3.64e+04	0.74	y	26:47	0.83	5.78	J	-	-	*			
PCB-53	2.23e+04	0.78	y	27:24	0.86	3.41	J	-	-	*			
PCB-51	4.98e+04	0.67	y	27:43	0.89	7.40	J	-	-	*			
PCB-45	*	*	n	NotFnd	0.76	*		-	-	*			
PCB-46	*	*	n	NotFnd	0.74	*		804	820	2.87			
PCB-52	2.12e+05	0.81	y	29:01	1.05	26.6		-	-	*	Co-elute PCB 69		
PCB-69	2.12e+05	0.81	y	29:01	1.05	26.6		-	-	*	Co-elute PCB 52		
PCB-73	9.91e+04	0.86	y	29:09	1.15	11.4	J	-	-	*			
PCB-43	8.34e+04	0.82	y	29:19	0.85	13.0	J	-	-	*	Co-elute PCB 49		
PCB-49	8.34e+04	0.82	y	29:19	0.85	13.0	J	-	-	*	Co-elute PCB 43		
PCB-47	1.28e+05	0.77	y	29:32	1.16	14.5	J	-	-	*			
PCB-48	3.35e+04	0.73	y	29:38	1.04	4.24	J	-	-	*	Co-elute PCB 75		
PCB-75	3.35e+04	0.73	y	29:38	1.04	4.24	J	-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.09	*		804	820	1.95			
PCB-62	*	*	n	NotFnd	1.09	*		804	820	1.95			
PCB-44	9.09e+04	0.84	y	30:16	0.81	14.8	J	-	-	*			
PCB-42	4.22e+04	0.80	y	30:29	1.08	5.16	J	-	-	*	Co-elute PCB 59		
PCB-59	4.22e+04	0.80	y	30:29	1.08	5.16	J	-	-	*	Co-elute PCB 42		
PCB-72	1.00e+05	0.73	y	31:03	1.14	11.6	J	-	-	*	Co-elute PCB 41/71/64		
PCB-41	1.00e+05	0.73	y	31:03	1.14	11.6	J	-	-	*	Co-elute PCB 72/71/64		
PCB-71	1.00e+05	0.73	y	31:03	1.14	11.6	J	-	-	*	Co-elute PCB 72/41/64		
PCB-64	1.00e+05	0.73	y	31:03	1.14	11.6	J	-	-	*	Co-elute PCB 72/41/71		
PCB-68	7.23e+04	0.81	y	31:18	1.24	7.66	J	-	-	*			
PCB-40	*	*	n	NotFnd	0.69	*		804	820	3.05			
PCB-57	*	*	n	NotFnd	1.12	*		804	820	1.89			
PCB-67	*	*	n	NotFnd	1.18	*		804	820	1.80			
PCB-58	*	*	n	NotFnd	1.13	*		804	820	1.87			
PCB-63	*	*	n	NotFnd	1.17	*		804	820	1.81			
PCB-74	3.57e+04	0.88	y	32:39	1.27	3.69	J	-	-	*			
PCB-61	8.07e+04	0.68	y	32:51	1.23	8.65	J	-	-	*	Co-elute PCB 70		
PCB-70	8.07e+04	0.68	y	32:51	1.23	8.65	J	-	-	*	Co-elute PCB 61		
PCB-76	5.66e+04	0.75	y	33:03	1.24	6.04	J	-	-	*	Co-elute PCB 66		
PCB-66	5.66e+04	0.75	y	33:03	1.24	6.04	J	-	-	*	Co-elute PCB 76		
PCB-80	5.12e+04	0.82	y	33:17	1.35	5.01	J	-	-	*			
PCB-55	2.94e+05	0.83	y	33:34	1.24	31.3		-	-	*			
13C-PCB-54	7.59e+07	0.81	y	25:39	1.08	10200						102	8.58e+06 1.06e+07
PCB-104	9.09e+06	1.60	y	30:07	1.32	1700		-	-	*			
PCB-96	*	*	n	NotFnd	1.19	*		536	744	2.89			
PCB-103	*	*	n	NotFnd	1.02	*		536	744	3.36			
PCB-100	*	*	n	NotFnd	1.04	*		536	744	3.31			
PCB-94	*	*	n	NotFnd	0.89	*		536	744	3.87			
PCB-98	*	*	n	NotFnd	1.05	*		536	744	3.29	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.05	*		536	744	3.29	Co-elute PCB 98		
PCB-95	1.48e+05	1.51	y	33:08	1.01	36.1		-	-	*			
PCB-93	*	*	n	NotFnd	0.91	*		536	744	3.80			
PCB-88	*	*	n	NotFnd	1.00	*		536	744	3.46	Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	1.00	*		536	744	3.46	Co-elute PCB 88		
PCB-121	1.57e+07	1.61	y	33:34	1.22	3170		-	-	*			
13C-PCB-104	4.06e+07	1.62	y	30:06	0.58	10200						102	5.76e+06 3.54e+06
13C-PCB-28	1.17e+08	1.07	y	26:45	1.60	10700						107	1.39e+07 1.28e+07
13C-PCB-52	6.86e+07	0.79	y	29:00	-	148							

PCB-56	*	*	n	NotFnd	1.11	*		2370	1100	4.87				Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.11	*		2370	1100	4.87				Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.10	*		2370	1100	4.93				
PCB-78	2.33e+07	0.81	y	35:44	1.07	2510		-	-	*				
PCB-81	*	*	n	NotFnd	1.12	*		2370	1100	4.76				
13C-PCB-81	8.66e+07	0.80	y	36:13	1.39	10900					109	7.28e+06	8.96e+06	
PCB-77	*	*	n	NotFnd	1.07	*		2370	1100	5.10				
13C-PCB-77	8.75e+07	0.80	y	36:48	1.43	10700					107	7.07e+06	8.73e+06	
PCB-155	1.81e+07	1.30	y	34:17	1.23	3340		-	-	*				
PCB-150	*	*	n	NotFnd	1.11	*		788	624	3.22				
PCB-152	*	*	n	NotFnd	1.06	*		788	624	3.35				
PCB-145	*	*	n	NotFnd	1.09	*		788	624	3.29				
PCB-136	*	*	n	NotFnd	1.01	*		788	624	3.52				
PCB-148	*	*	n	NotFnd	0.86	*		788	624	4.17				
PCB-154	4.37e+04	1.35	y	37:14	0.99	9.98	J	-	-	*				
13C-PCB-155	4.42e+07	1.32	y	34:16	0.74	10400					104	5.66e+06	4.24e+06	
13C-PCB-111	6.62e+07	1.59	y	36:22	1.17	9830					98.3	8.01e+06	5.05e+06	
13C-PCB-101	5.74e+07	1.63	y	34:42	-	139								
PCB-84	3.25e+05	1.69	y	34:17	0.66	61.4		-	-	*				Co-elute PCB 92
PCB-92	3.25e+05	1.69	y	34:17	0.66	61.4		-	-	*				Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.66	*		380	256	1.53				
PCB-90	9.70e+04	1.50	y	34:45	0.75	16.1	J	-	-	*				Co-elute PCB 101
PCB-101	9.70e+04	1.50	y	34:45	0.75	16.1	J	-	-	*				Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.82	*		380	256	1.23				
PCB-99	4.04e+04	1.51	y	35:04	0.87	5.79	J	-	-	*				
PCB-119	*	*	n	NotFnd	0.95	*		380	256	1.06				
PCB-83	*	*	n	NotFnd	0.76	*		380	256	1.33				Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.76	*		380	256	1.33				Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.93	*		380	256	1.09				
PCB-97	*	*	n	NotFnd	0.84	*		380	256	1.20				
PCB-86	*	*	n	NotFnd	0.73	*		380	256	1.37				
PCB-125	4.27e+04	1.35	y	36:15	0.84	6.32	J	-	-	*				Co-elute PCB 87/117
PCB-87	4.27e+04	1.35	y	36:15	0.84	6.32	J	-	-	*				Co-elute PCB 125/117
PCB-117	4.27e+04	1.35	y	36:15	0.84	6.32	J	-	-	*				Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.06	*		380	256	0.950				Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.06	*		380	256	0.950				Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.83	*		380	256	1.21				Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.83	*		380	256	1.21				Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.00	*		380	256	1.01				
PCB-110	8.90e+04	1.61	y	36:53	1.00	11.1	J	-	-	*				
PCB-82	*	*	n	NotFnd	0.57	*		380	256	1.77				
PCB-124	*	*	n	NotFnd	1.12	*		500	610	1.57				
PCB-108	*	*	n	NotFnd	1.05	*		500	610	1.67				Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.05	*		500	610	1.67				Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.30	*		500	610	1.36				
13C-PCB-123	7.64e+07	1.59	y	38:24	1.23	10500					105	9.61e+06	6.06e+06	
PCB-118	5.33e+04	1.63	y	38:36	1.01	6.31	J	-	-	*				Co-elute PCB 106
PCB-106	5.33e+04	1.63	y	38:36	1.01	6.31	J	-	-	*				Co-elute PCB 118
13C-PCB-118	8.35e+07	1.61	y	38:34	1.38	10200					102	1.00e+07	6.26e+06	
PCB-114	*	*	n	NotFnd	1.11	*		500	610	1.53				
13C-PCB-114	8.16e+07	1.60	y	39:12	1.27	10900					109	1.01e+07	6.22e+06	
PCB-122	*	*	n	NotFnd	1.12	*		500	610	1.56				
PCB-105	*	*	n	NotFnd	1.10	*		500	610	1.70				
13C-PCB-105	7.87e+07	1.59	y	40:00	1.29	10400					104	9.27e+06	5.70e+06	

PCB-127	*	*	n	NotFnd	1.02	*		500	610	1.73			
PCB-126	*	*	n	NotFnd	1.13	*		500	610	1.73			
13C-PCB-126	7.92e+07	1.62	y	42:08	1.25	10700					107	8.71e+06	5.48e+06
PCB-151	*	*	n	NotFnd	0.79	*		1010	856	4.42			
PCB-135	*	*	n	NotFnd	0.83	*		1010	856	4.22			
PCB-144	*	*	n	NotFnd	0.80	*		1010	856	4.37			
PCB-147	*	*	n	NotFnd	0.88	*		1010	856	3.99			
PCB-139	*	*	n	NotFnd	0.88	*		1010	856	3.98		Co-elute PCB 149	
PCB-149	*	*	n	NotFnd	0.88	*		1010	856	3.98		Co-elute PCB 139	
PCB-140	*	*	n	NotFnd	0.86	*		1010	856	4.07			
PCB-143	*	*	n	NotFnd	0.80	*		1010	856	4.37		Co-elute PCB 134	
PCB-134	*	*	n	NotFnd	0.80	*		1010	856	4.37		Co-elute PCB 143	
PCB-131	*	*	n	NotFnd	0.82	*		1010	856	4.27		Co-elute PCB 133	
PCB-133	*	*	n	NotFnd	0.82	*		1010	856	4.27		Co-elute PCB 131	
PCB-142	2.53e+07	1.26	y	39:34	0.73	5210		-	-	*			
PCB-165	*	*	n	NotFnd	0.98	*		1010	856	3.59		Co-elute PCB 146	
PCB-146	*	*	n	NotFnd	0.98	*		1010	856	3.59		Co-elute PCB 165	
PCB-161	8.16e+04	1.05	y	39:58	0.89	13.8	J	-	-	*		Co-elute PCB 132	
PCB-132	8.16e+04	1.05	y	39:58	0.89	13.8	J	-	-	*		Co-elute PCB 161	
PCB-153	3.58e+05	1.30	y	40:13	0.94	57.2		-	-	*			
PCB-168	*	*	n	NotFnd	1.07	*		1010	856	3.29			
PCB-141	*	*	n	NotFnd	0.83	*		1010	856	4.23			
PCB-137	*	*	n	NotFnd	0.79	*		1010	856	4.43			
PCB-130	*	*	n	NotFnd	0.74	*		1010	856	4.78			
PCB-138	*	*	n	NotFnd	1.08	*		1010	856	3.26		Co-elute PCB 163/164	
PCB-163	*	*	n	NotFnd	1.08	*		1010	856	3.26		Co-elute PCB 138/164	
PCB-164	*	*	n	NotFnd	1.08	*		1010	856	3.26		Co-elute PCB 138/163	
PCB-158	*	*	n	NotFnd	1.09	*		1010	856	3.22		Co-elute PCB 160	
PCB-160	*	*	n	NotFnd	1.09	*		1010	856	3.22		Co-elute PCB 158	
PCB-129	*	*	n	NotFnd	0.69	*		1010	856	5.11			
PCB-166	*	*	n	NotFnd	1.02	*		1010	856	3.44			
PCB-159	*	*	n	NotFnd	1.08	*		1010	856	3.24			
PCB-128	*	*	n	NotFnd	0.91	*		1010	856	3.84		Co-elute PCB 162	
PCB-162	*	*	n	NotFnd	0.91	*		1010	856	3.84		Co-elute PCB 128	
PCB-167	*	*	n	NotFnd	1.01	*		1010	856	3.38			
13C-PCB-167	6.84e+07	1.29	y	43:31	1.16	10000					100	7.67e+06	5.98e+06
PCB-156	*	*	n	NotFnd	1.02	*		1010	856	3.53			
13C-PCB-156	6.47e+07	1.29	y	44:43	1.13	9680					96.8	7.26e+06	5.62e+06
PCB-157	*	*	n	NotFnd	1.10	*		1010	856	3.45			
13C-PCB-157	6.61e+07	1.30	y	45:00	1.15	9770					97.7	7.10e+06	5.28e+06
PCB-169	*	*	n	NotFnd	1.03	*		1010	856	3.15			
13C-PCB-169	6.68e+07	1.28	y	46:51	1.16	9760					97.6	8.17e+06	6.21e+06

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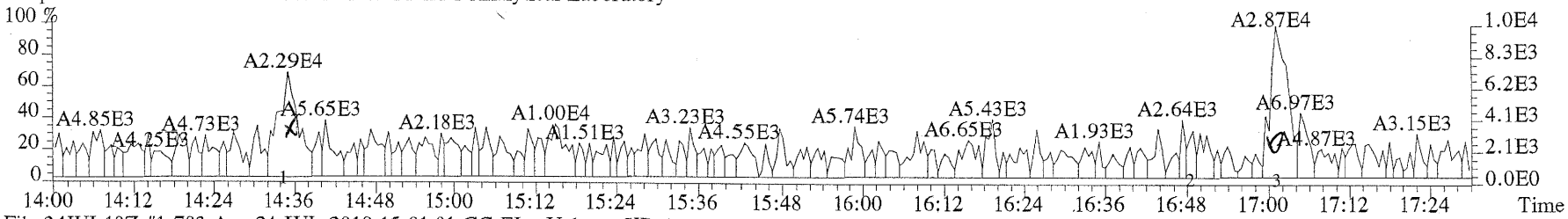
Client ID: LDW-Y1-SU-S010-LCB ConCal: ST072418Z1 EndCal: ST072418Z2
Results: 11704-7 GC Column: DB1MS Amount: 1.000

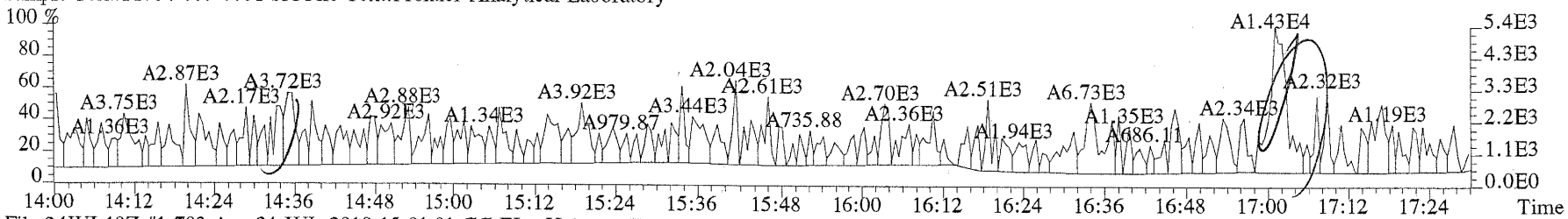
PCB-188	*	*	n	NotFnd	1.16	*	832	416	2.40				
13C-PCB-188	5.09e+07	1.09	y	39:45	0.89	9710				97.1	5.90e+06	5.32e+06	
PCB-184	2.36e+07	1.06	y	40:13	1.18	4020	-	-	*				
PCB-179	*	*	n	NotFnd	1.10	*	832	416	2.48				
PCB-176	*	*	n	NotFnd	1.07	*	832	416	2.55				
PCB-186	*	*	n	NotFnd	1.12	*	832	416	2.43				
PCB-178	*	*	n	NotFnd	0.78	*	832	416	3.46				
PCB-175	*	*	n	NotFnd	0.83	*	832	416	3.29				
PCB-187	*	*	n	NotFnd	0.93	*	832	416	2.93		Co-elute PCB 182		
PCB-182	*	*	n	NotFnd	0.93	*	832	416	2.93		Co-elute PCB 187		
PCB-183	*	*	n	NotFnd	0.88	*	832	416	3.09				
PCB-185	*	*	n	NotFnd	0.86	*	832	416	3.17				
PCB-174	*	*	n	NotFnd	0.82	*	832	416	3.32				
PCB-181	*	*	n	NotFnd	0.88	*	832	416	3.07				
PCB-177	*	*	n	NotFnd	0.77	*	832	416	3.51				
PCB-171	*	*	n	NotFnd	0.79	*	832	416	3.42				
PCB-173	*	*	n	NotFnd	0.77	*	832	416	3.55				
PCB-172	5.11e+05	1.01	y	45:29	0.76	135	-	-	*				
PCB-192	1.63e+07	1.07	y	45:42	1.08	3050	-	-	*				
PCB-180	*	*	n	NotFnd	1.04	*	832	416	2.61				
PCB-193	*	*	n	NotFnd	1.11	*	832	416	2.45				
PCB-191	*	*	n	NotFnd	1.06	*	832	416	2.55				
PCB-170	*	*	n	NotFnd	0.75	*	832	416	3.64				
PCB-190	*	*	n	NotFnd	1.06	*	832	416	2.56				
PCB-189	*	*	n	NotFnd	1.14	*	832	416	2.32				
13C-PCB-189	4.88e+07	1.08	y	48:30	0.86	9620				96.2	6.18e+06	5.60e+06	
PCB-202	*	*	n	NotFnd	1.03	*	236	420	2.37				
PCB-201	*	*	n	NotFnd	1.02	*	236	420	2.39				
PCB-204	2.54e+07	0.95	y	45:29	0.98	8870	-	-	*				
PCB-197	1.36e+05	0.91	y	45:44	1.09	42.8	-	-	*				
PCB-200	*	*	n	NotFnd	1.00	*	236	420	2.45				
PCB-198	*	*	n	NotFnd	0.72	*	236	420	3.39				
PCB-199	*	*	n	NotFnd	0.86	*	236	420	2.82				
PCB-203	*	*	n	NotFnd	0.87	*	236	420	2.80		Co-elute PCB 196		
PCB-196	*	*	n	NotFnd	0.87	*	236	420	2.80		Co-elute PCB 203		
13C-PCB-202	2.93e+07	0.94	y	44:51	0.51	9710				97.1	3.25e+06	3.48e+06	
13C-PCB-178	3.73e+07	1.11	y	42:23	0.67	9520				95.2	3.99e+06	3.66e+06	
13C-PCB-138	5.89e+07	1.30	y	41:37	-	143							
PCB-195	*	*	n	NotFnd	0.79	*	484	1710	3.41				
PCB-194	*	*	n	NotFnd	0.82	*	484	1710	3.28				
PCB-205	*	*	n	NotFnd	1.10	*	484	1710	2.46				
13C-PCB-205	6.44e+07	0.91	y	50:08	1.23	10300				103	9.72e+06	1.06e+07	
PCB-208	*	*	n	NotFnd	0.94	*	504	621	1.45				
13C-PCB-208	6.41e+07	0.79	y	49:10	1.35	9400				94.0	9.06e+06	1.17e+07	
PCB-207	1.72e+05	1.36	y	49:30	0.92	33.1	-	-	*				
PCB-206	*	*	n	NotFnd	0.96	*	504	621	1.84				
13C-PCB-206	4.90e+07	0.80	y	51:20	1.01	9630				96.3	7.13e+06	8.76e+06	
PCB-209	2.28e+05	1.13	y	52:31	1.06	37.5	-	-	*				
13C-PCB-209	5.73e+07	1.21	y	52:31	1.22	9270				92.7	8.62e+06	7.00e+06	
13C-PCB-194	5.06e+07	0.91	y	49:53	-	144							

Analyst: _____ Date: 8/20/18

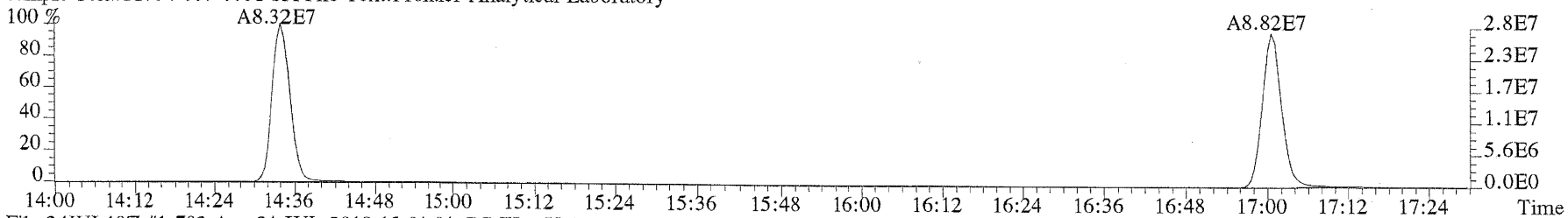
File:24JUL18Z #1-783 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



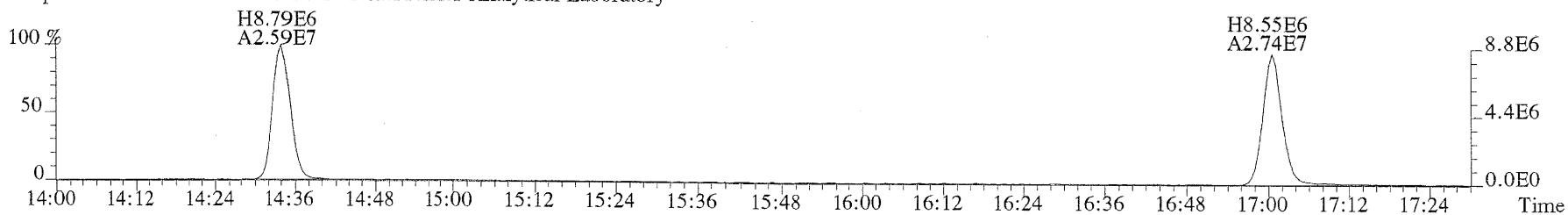
File:24JUL18Z #1-783 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



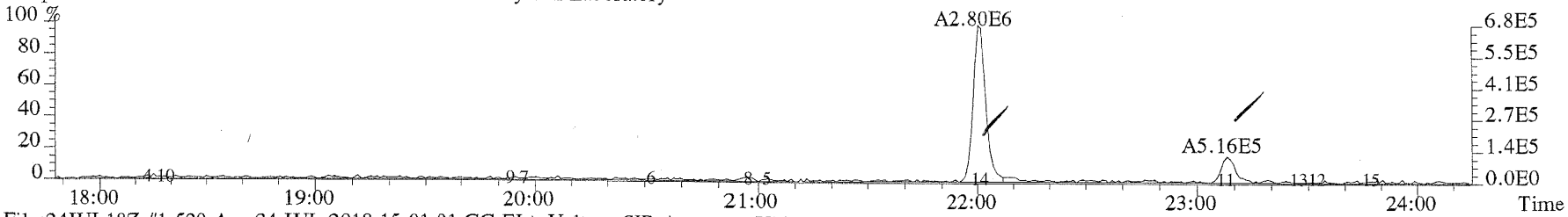
File:24JUL18Z #1-783 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



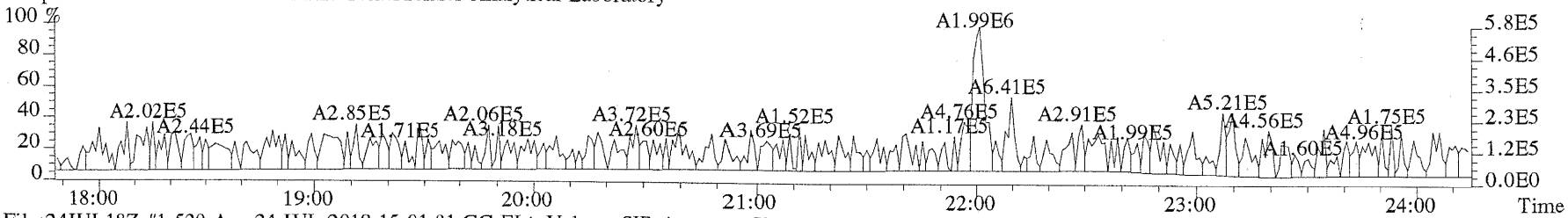
File:24JUL18Z #1-783 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



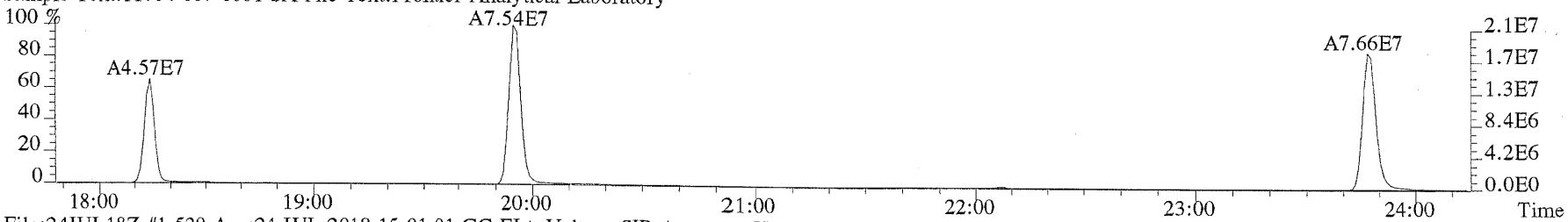
File:24JUL18Z #1-520 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



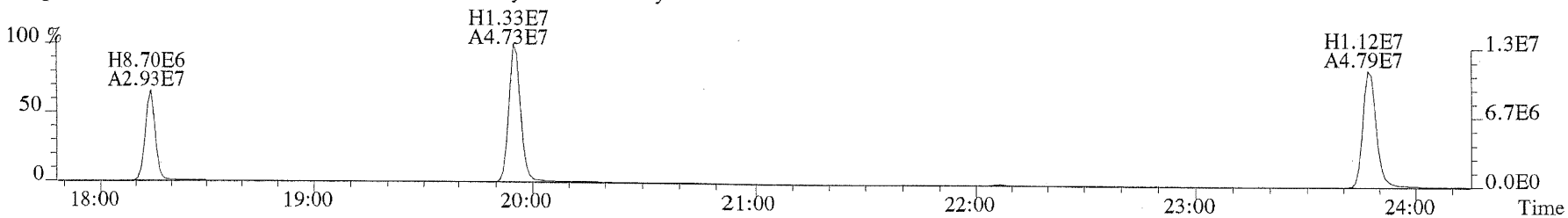
File:24JUL18Z #1-520 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



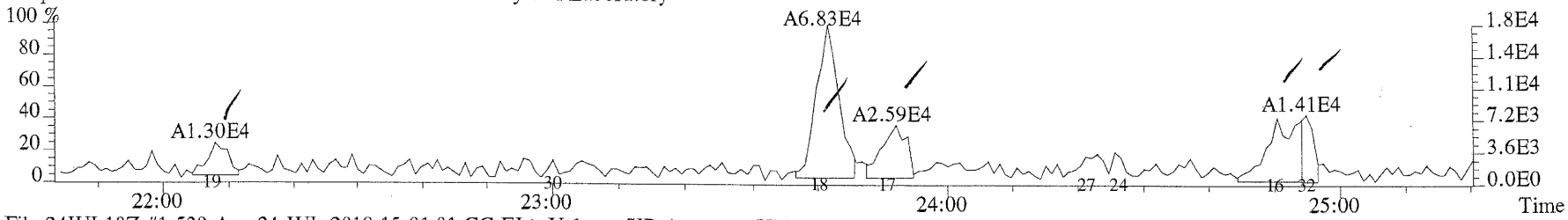
File:24JUL18Z #1-520 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



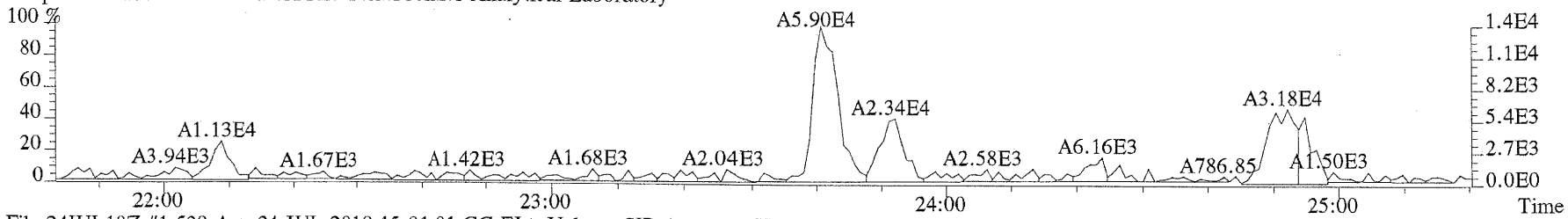
File:24JUL18Z #1-520 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



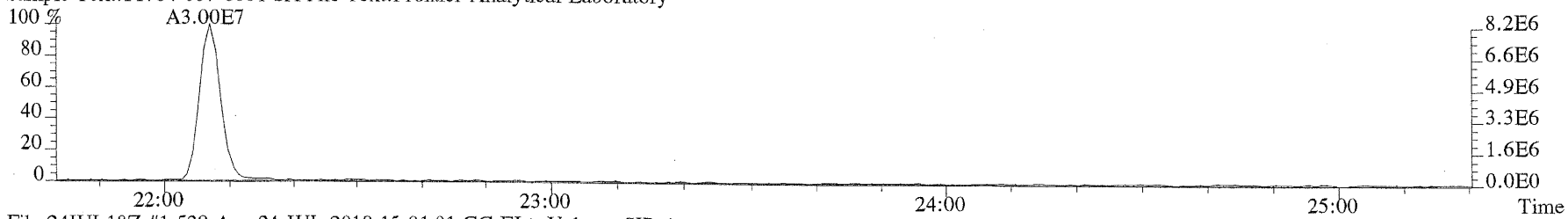
File:24JUL18Z #1-520 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



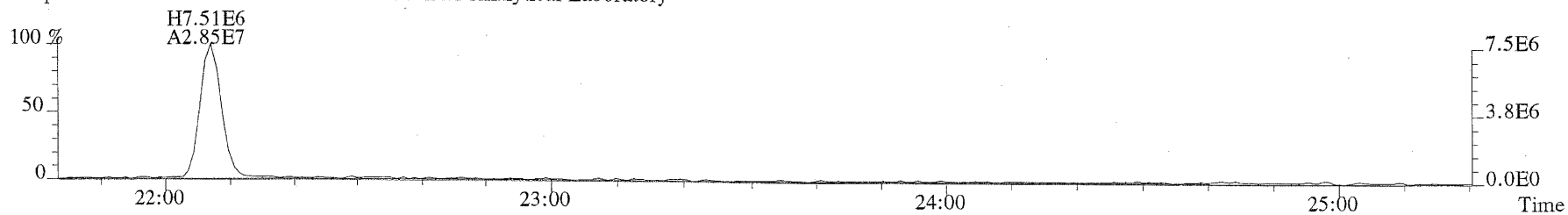
File:24JUL18Z #1-520 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



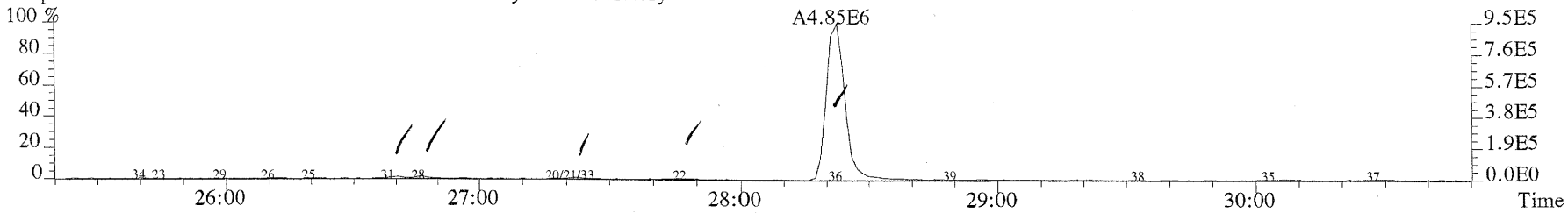
File:24JUL18Z #1-520 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



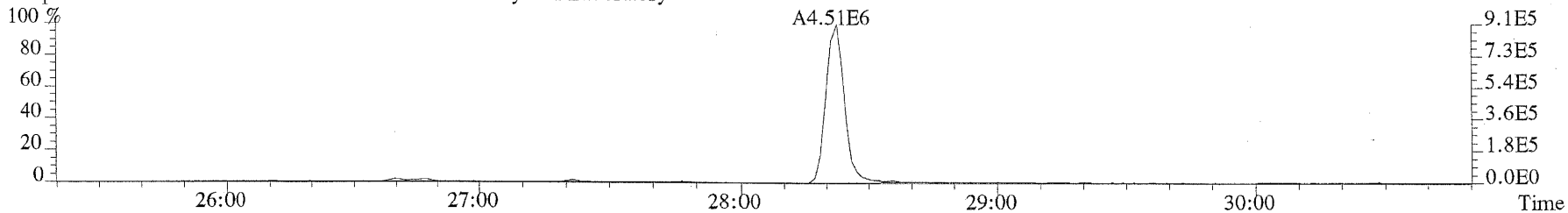
File:24JUL18Z #1-520 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



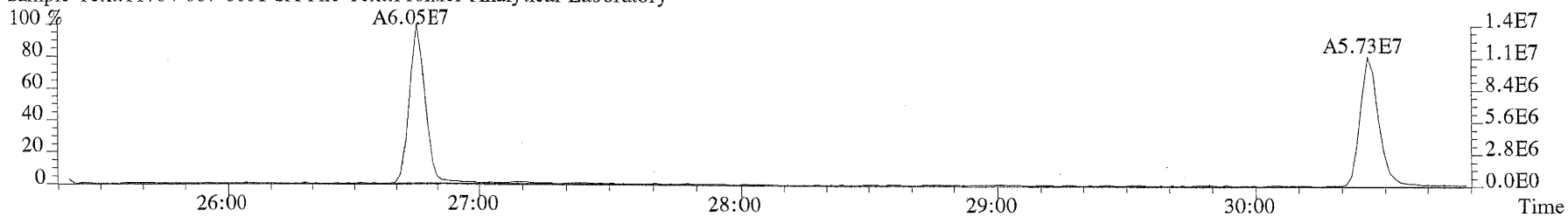
File:24JUL18Z #1-401 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



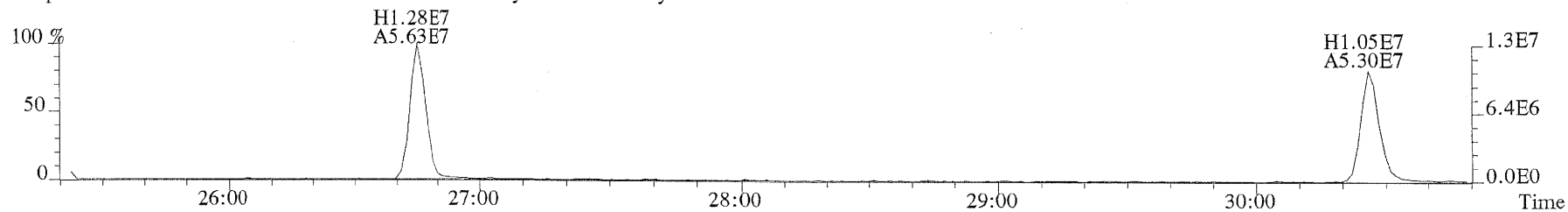
File:24JUL18Z #1-401 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



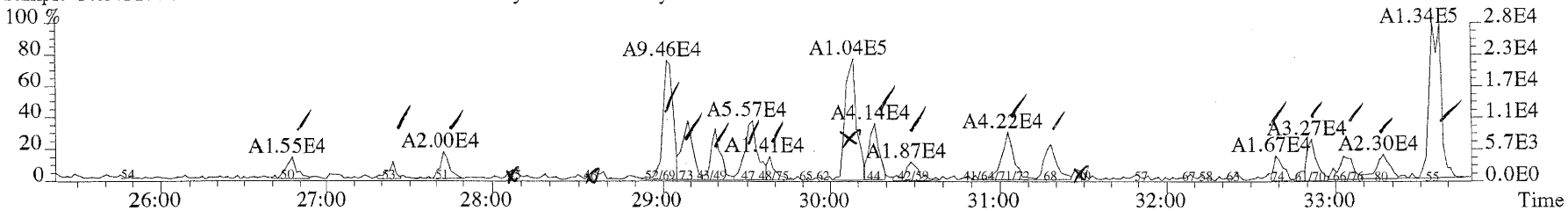
File:24JUL18Z #1-401 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



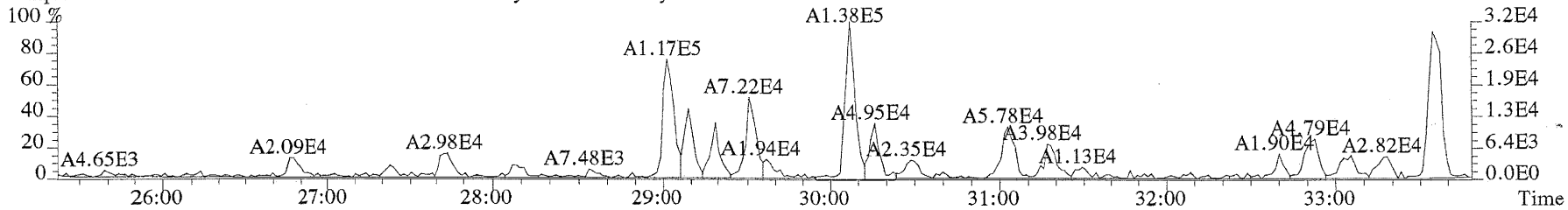
File:24JUL18Z #1-401 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



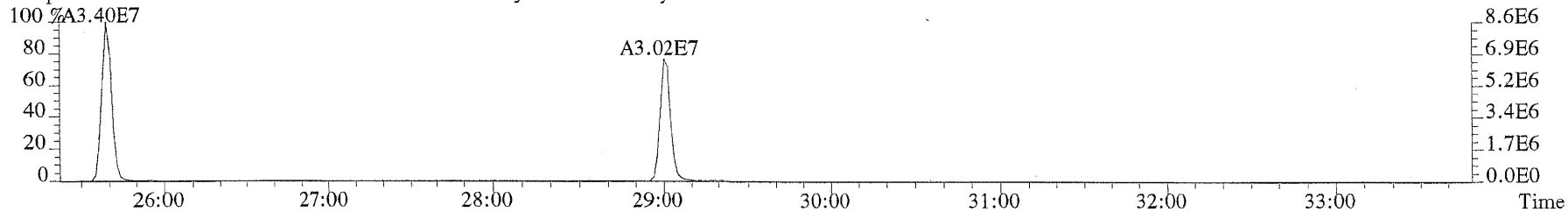
File:24JUL18Z #1-401 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



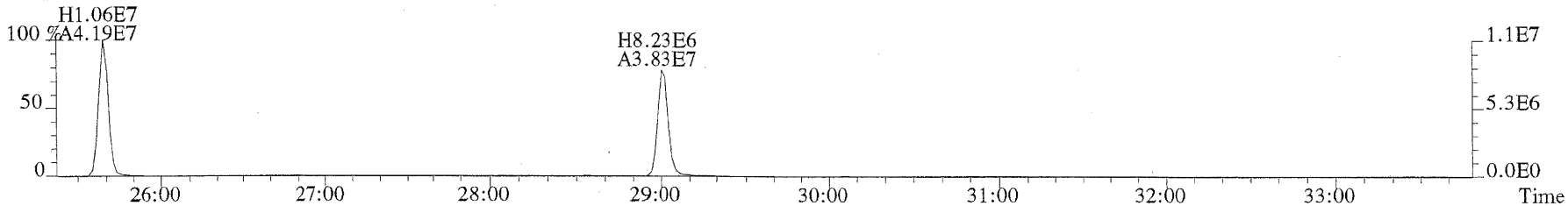
File:24JUL18Z #1-401 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



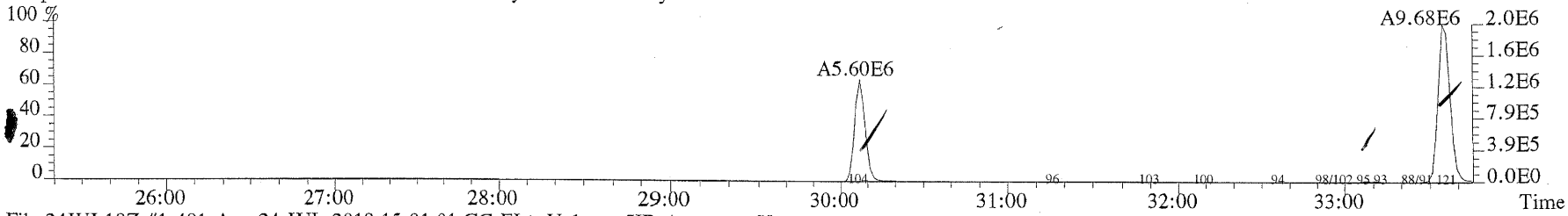
File:24JUL18Z #1-401 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



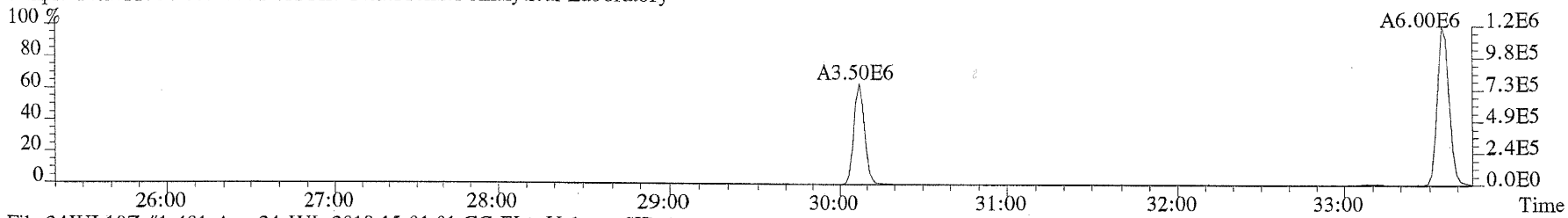
File:24JUL18Z #1-401 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



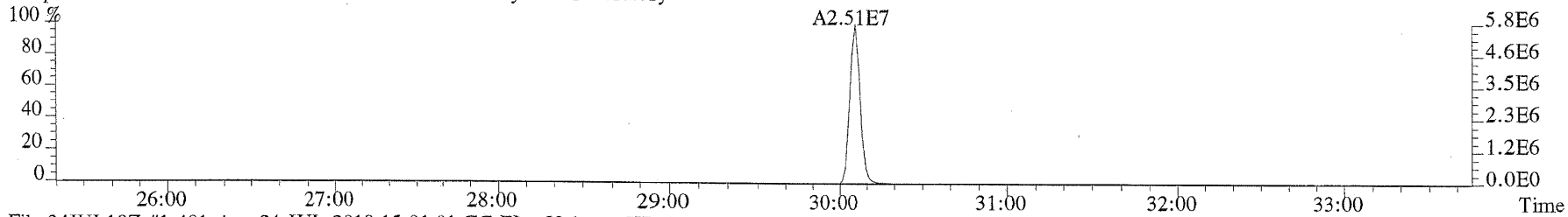
File:24JUL18Z #1-401 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



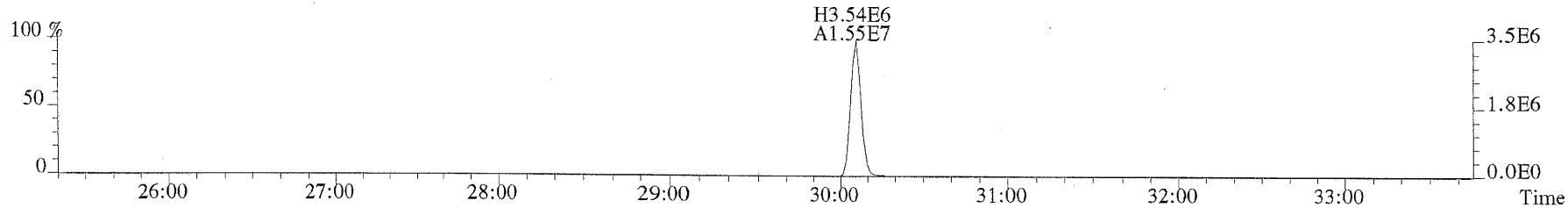
File:24JUL18Z #1-401 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



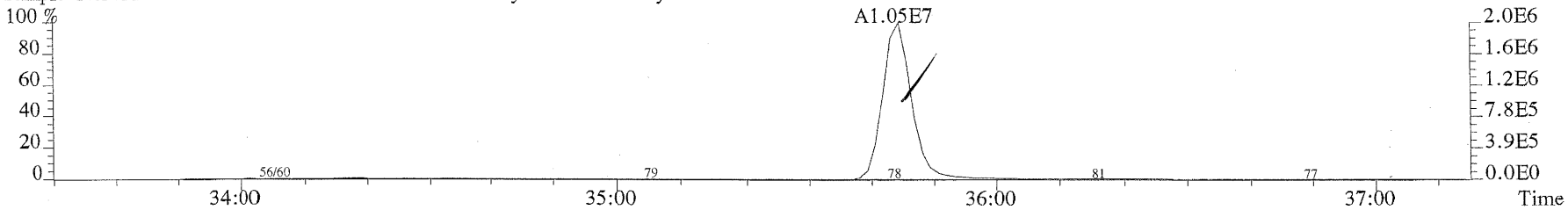
File:24JUL18Z #1-401 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



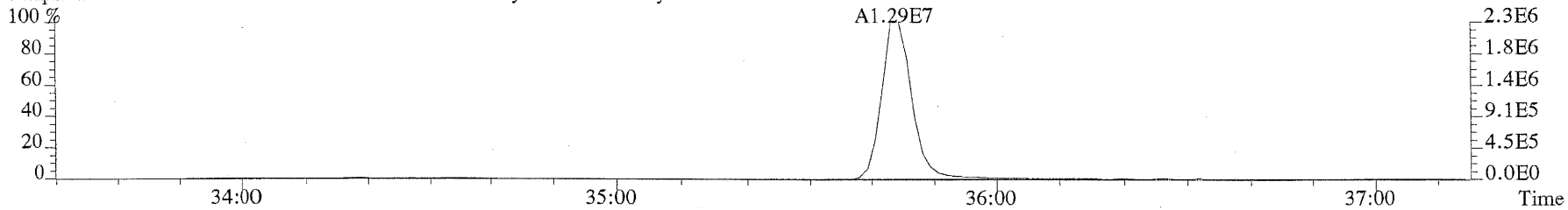
File:24JUL18Z #1-401 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



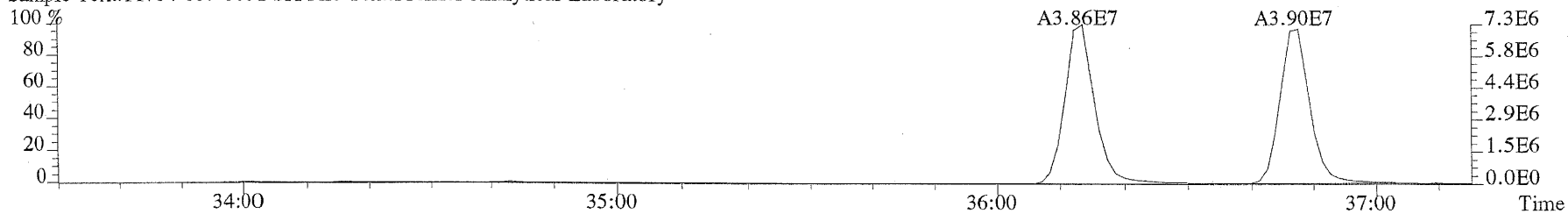
File:24JUL18Z #1-183 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



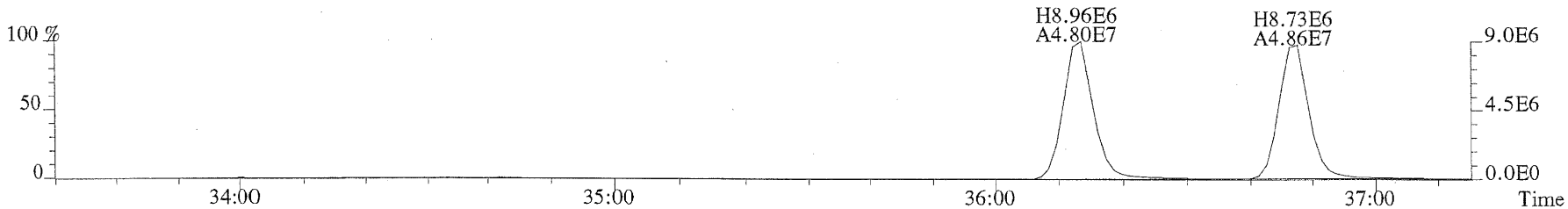
File:24JUL18Z #1-183 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



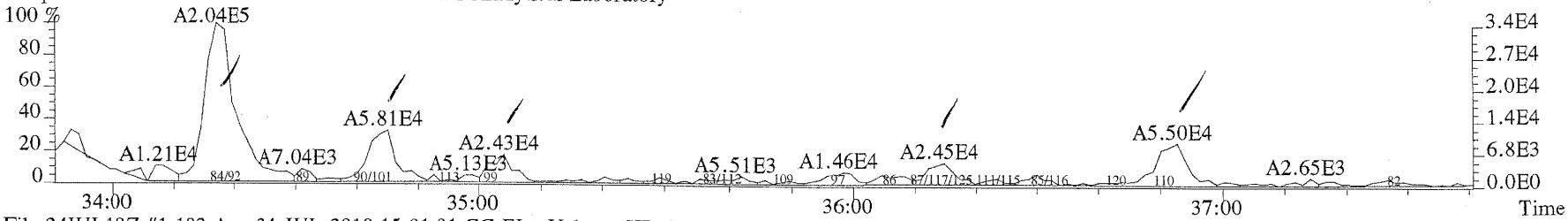
File:24JUL18Z #1-183 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



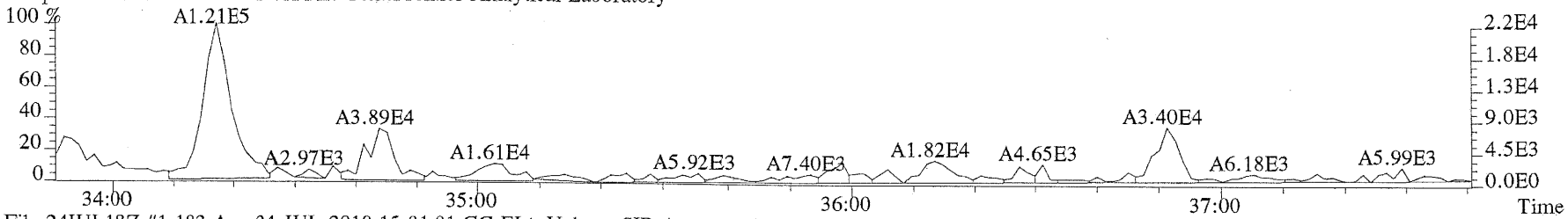
File:24JUL18Z #1-183 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



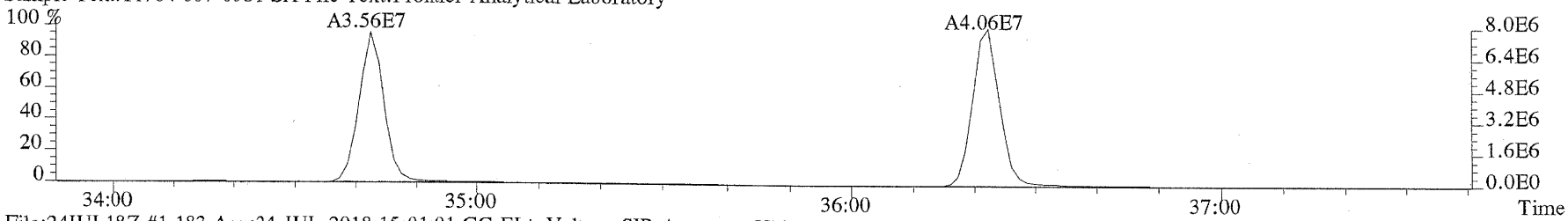
File:24JUL18Z #1-183 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



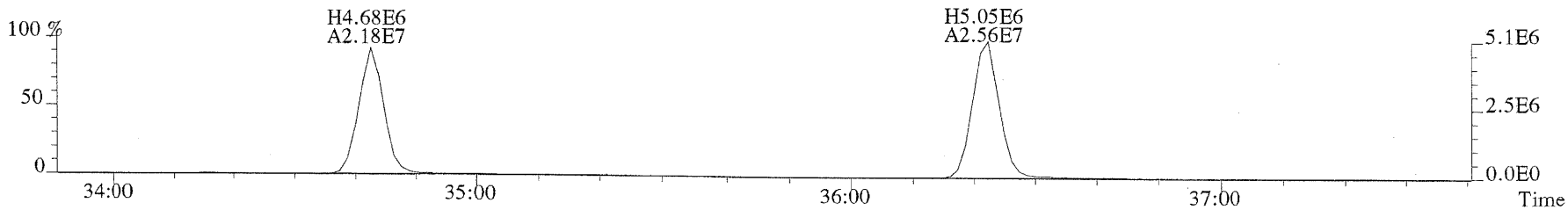
File:24JUL18Z #1-183 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



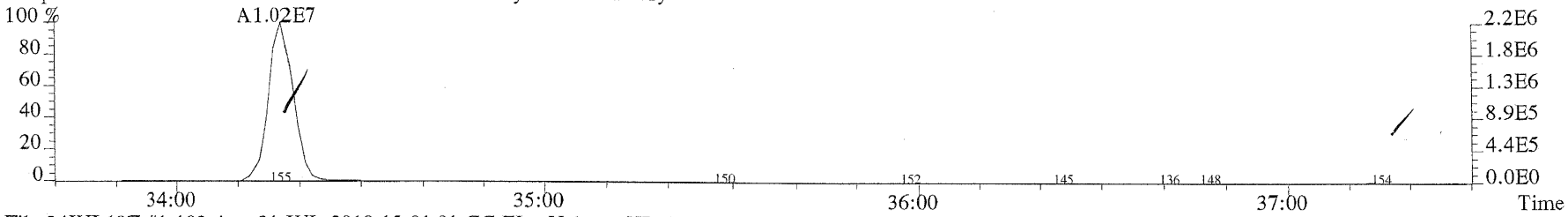
File:24JUL18Z #1-183 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



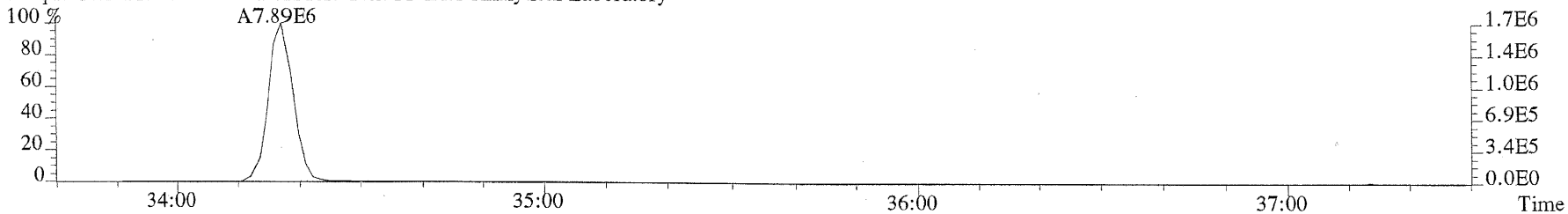
File:24JUL18Z #1-183 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



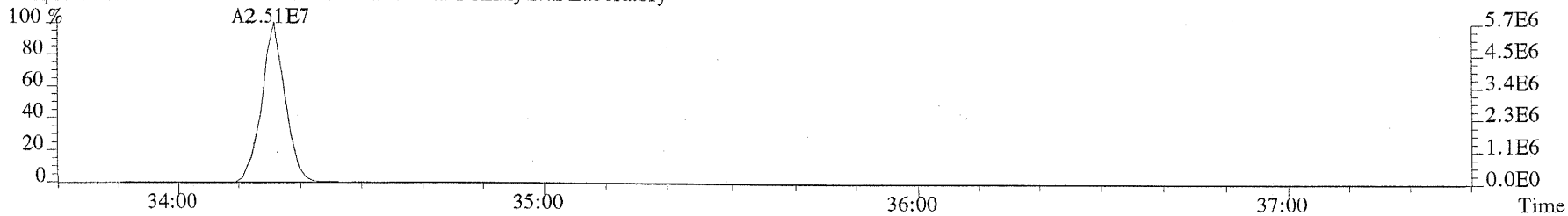
File:24JUL18Z #1-183 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



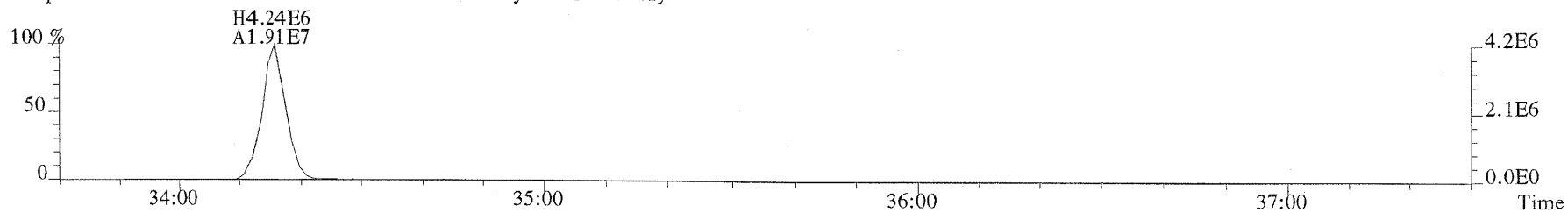
File:24JUL18Z #1-183 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



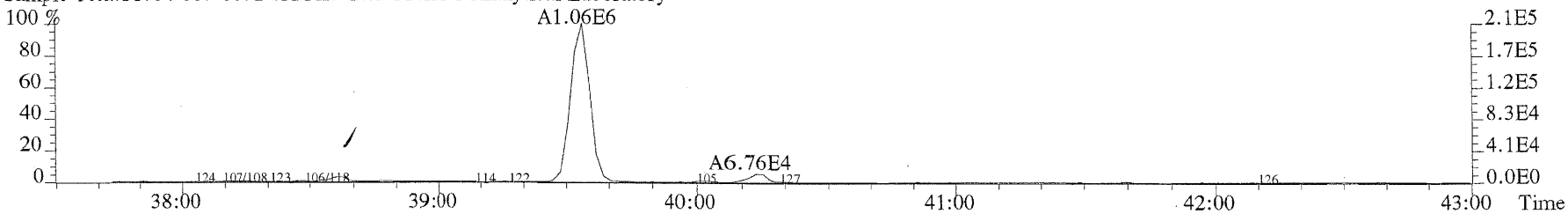
File:24JUL18Z #1-183 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



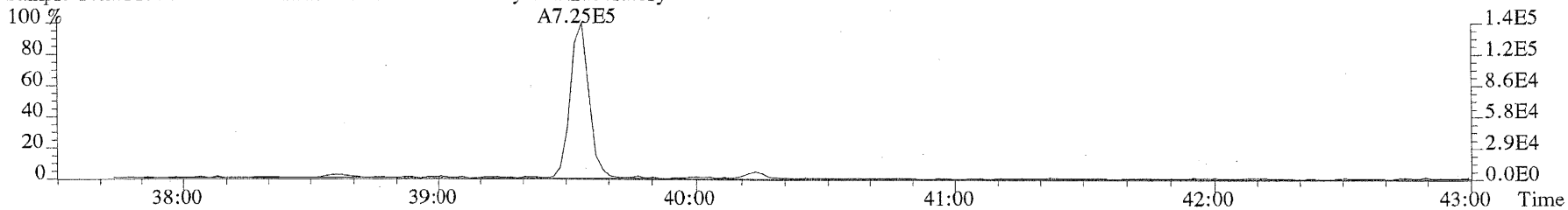
File:24JUL18Z #1-183 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



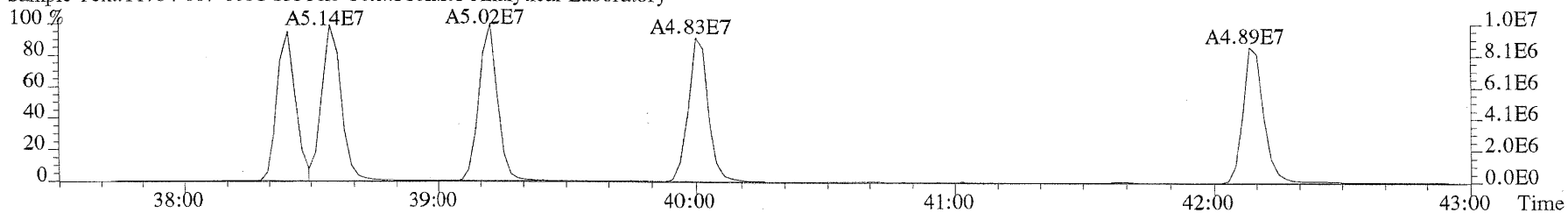
File:24JUL18Z #1-403 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



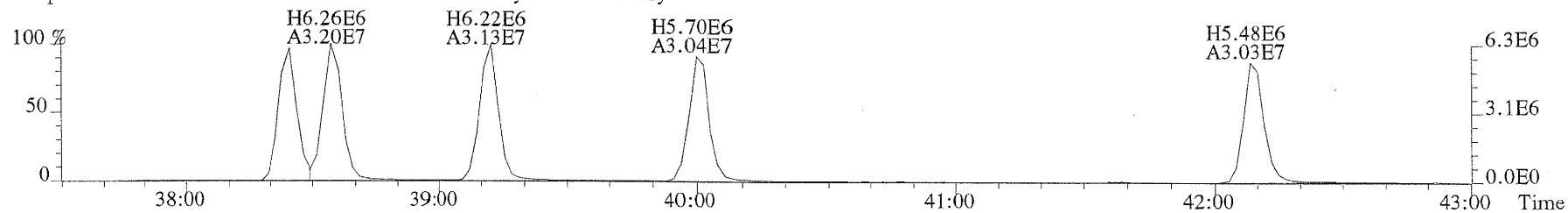
File:24JUL18Z #1-403 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



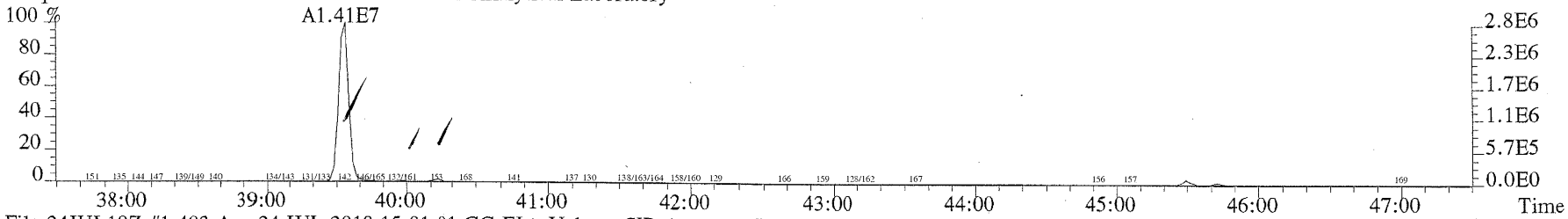
File:24JUL18Z #1-403 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



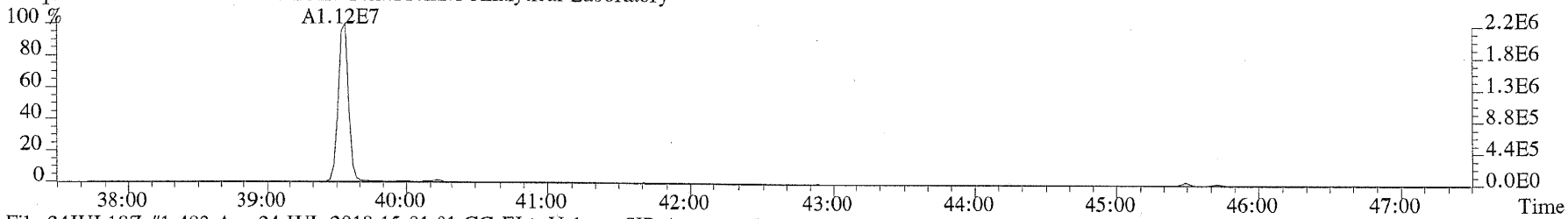
File:24JUL18Z #1-403 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



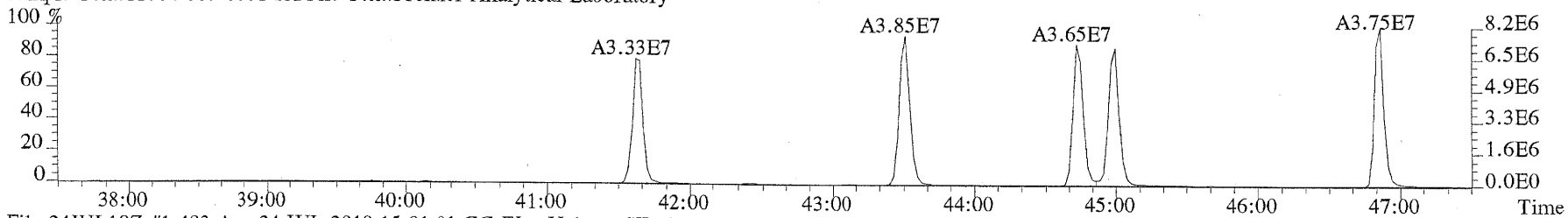
File:24JUL18Z #1-403 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



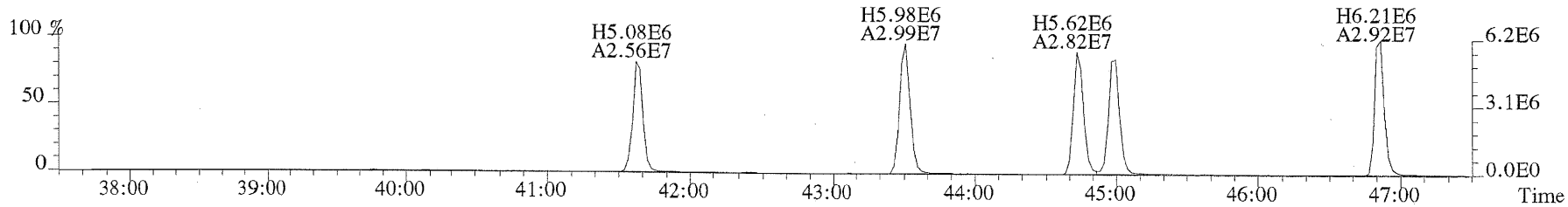
File:24JUL18Z #1-403 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



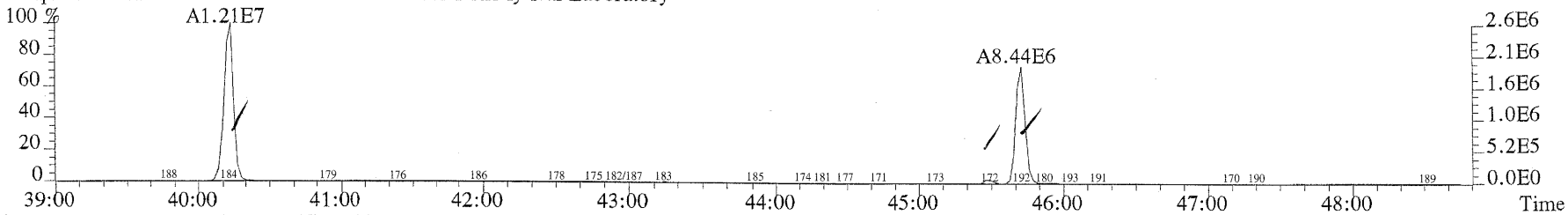
File:24JUL18Z #1-403 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



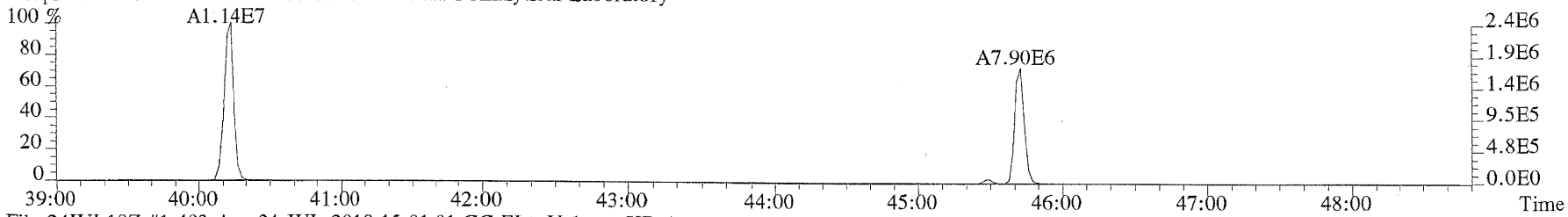
File:24JUL18Z #1-403 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



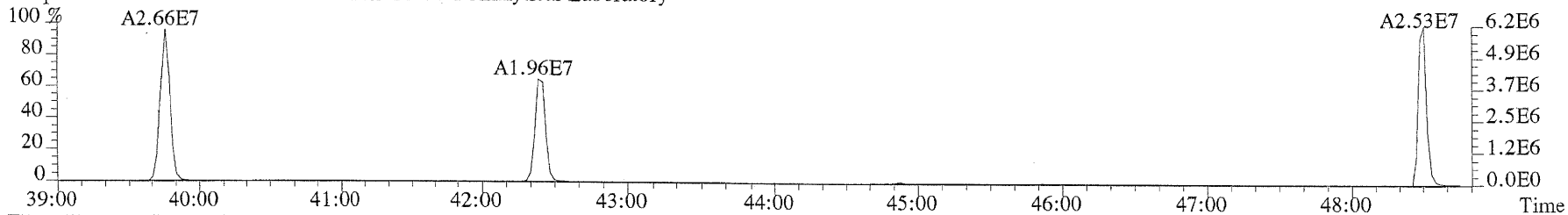
File:24JUL18Z #1-403 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



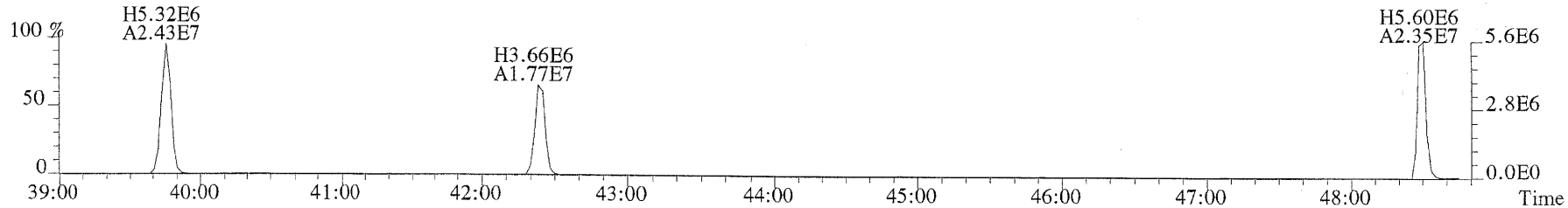
File:24JUL18Z #1-403 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



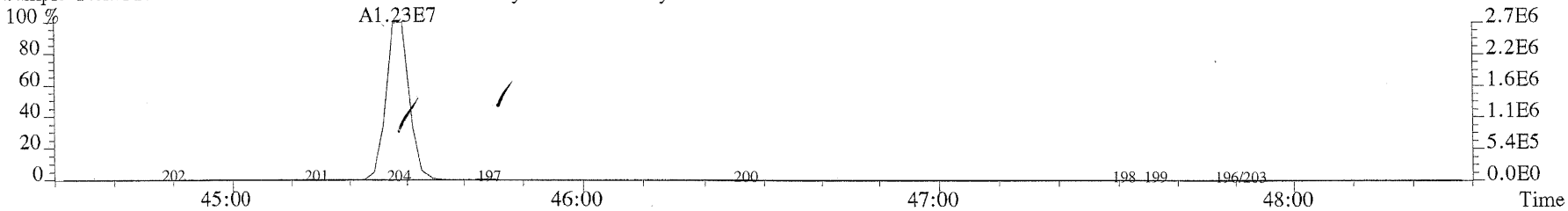
File:24JUL18Z #1-403 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



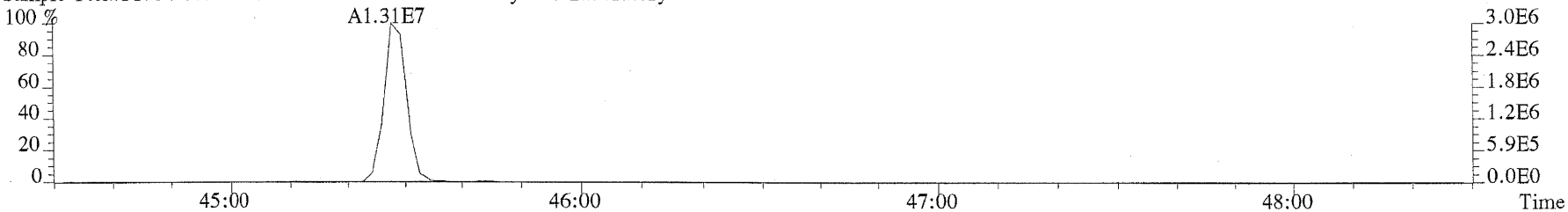
File:24JUL18Z #1-403 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



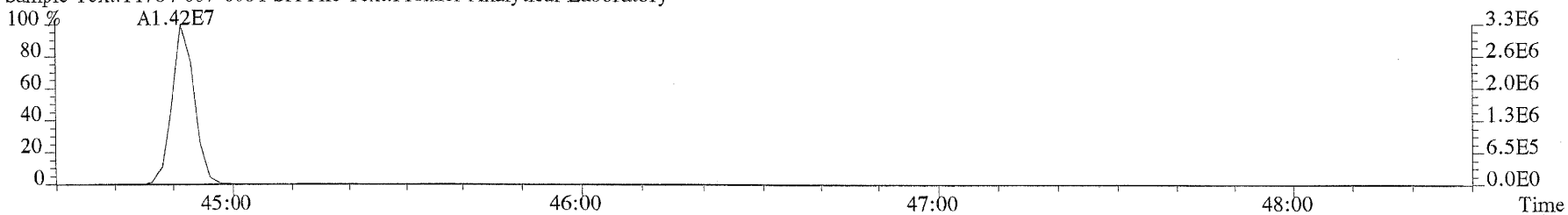
File:24JUL18Z #1-403 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



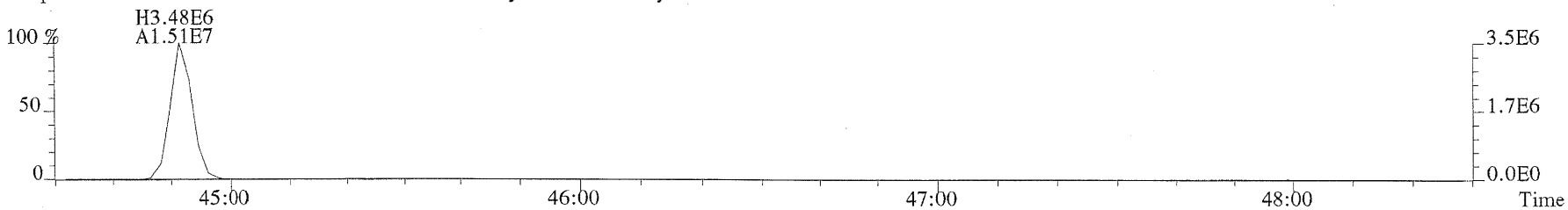
File:24JUL18Z #1-403 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



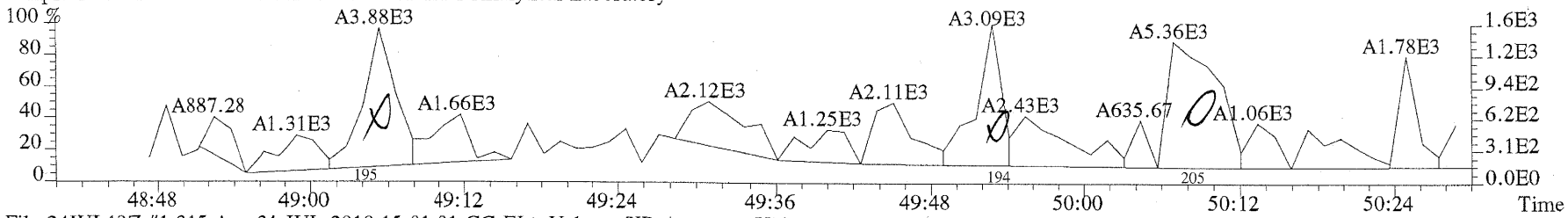
File:24JUL18Z #1-403 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



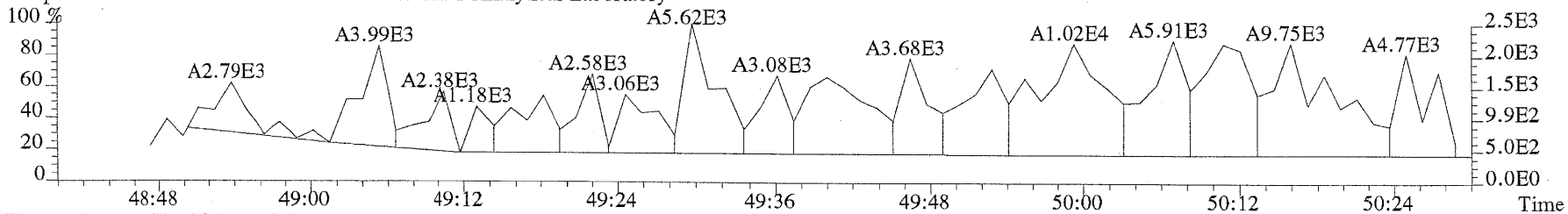
File:24JUL18Z #1-403 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



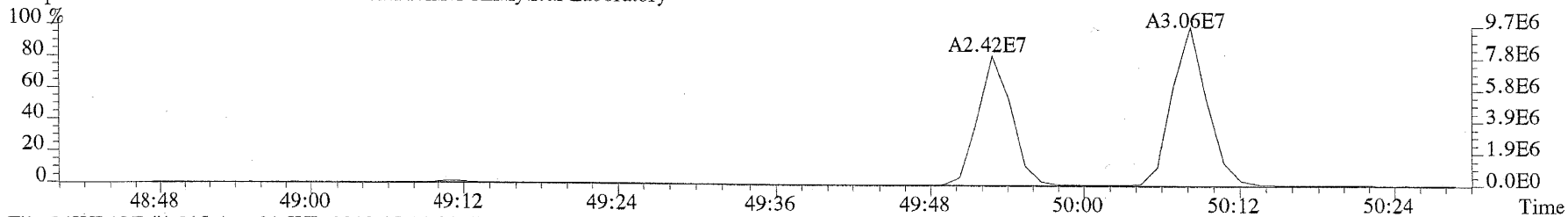
File:24JUL18Z #1-315 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



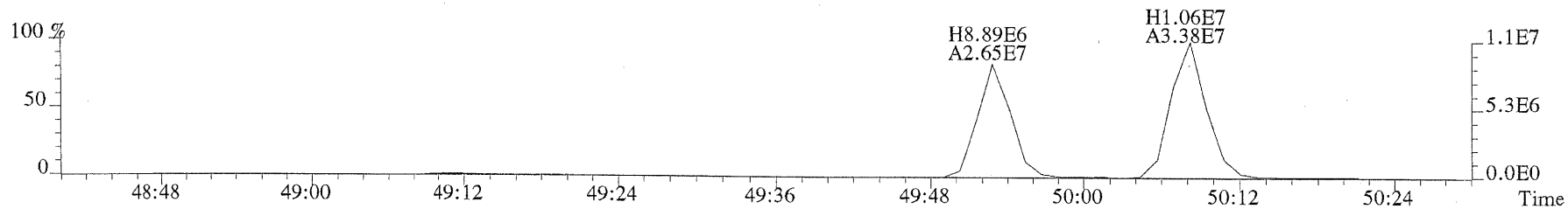
File:24JUL18Z #1-315 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



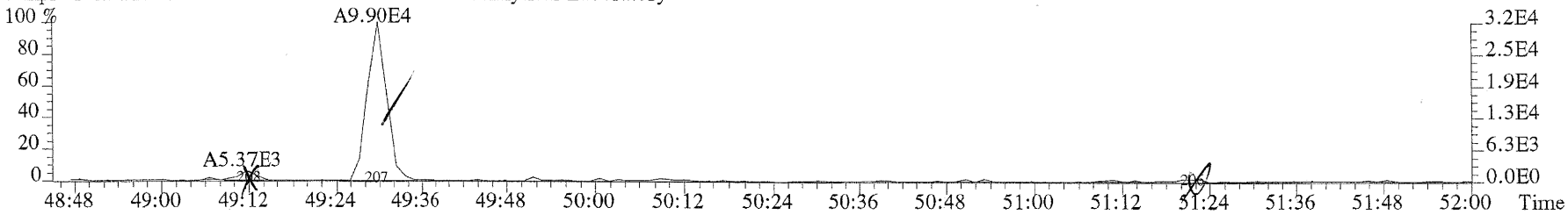
File:24JUL18Z #1-315 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



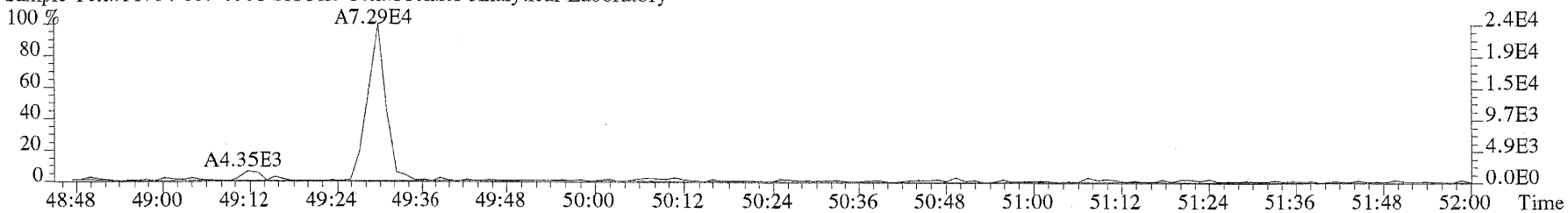
File:24JUL18Z #1-315 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



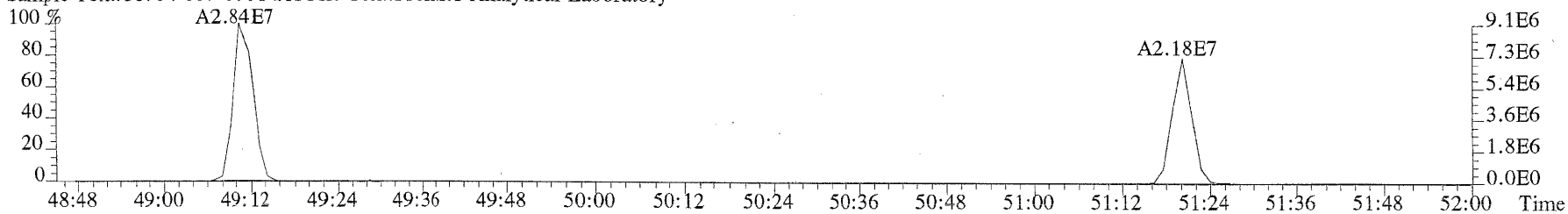
File:24JUL18Z #1-315 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



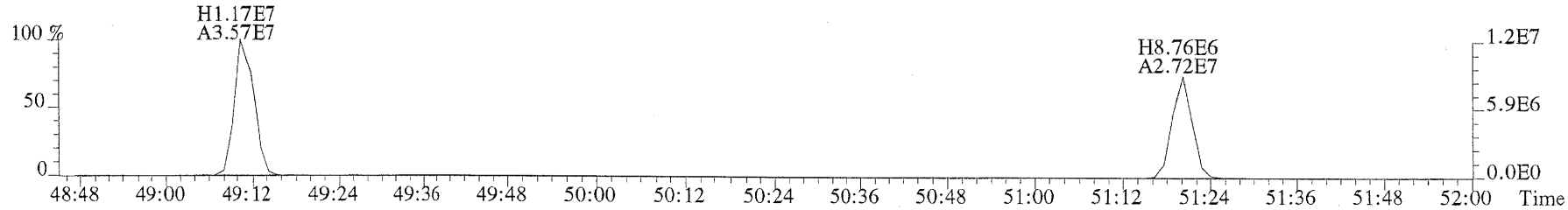
File:24JUL18Z #1-315 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



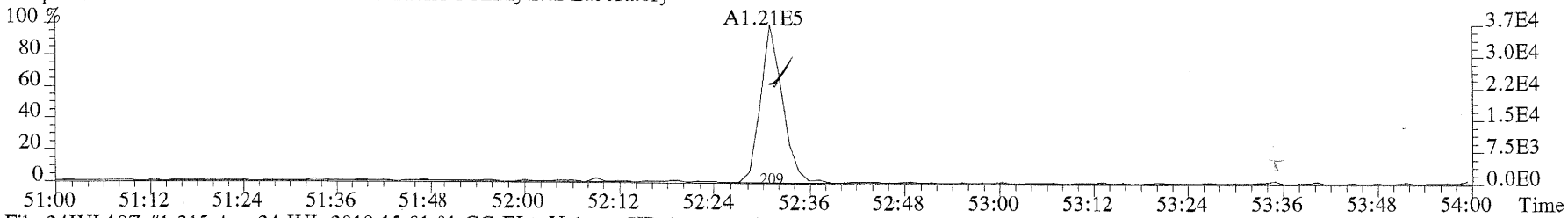
File:24JUL18Z #1-315 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



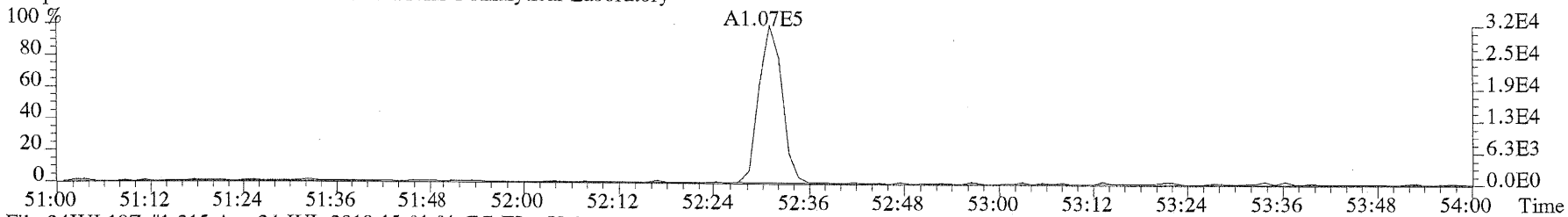
File:24JUL18Z #1-315 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-315 Acq:24-JUL-2018 15:01:01 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:11704-007-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-315 Acq:24-JUL-2018 15:01:01 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:11704-007-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-315 Acq:24-JUL-2018 15:01:01 GC EI+ Voltage SIR Autospec-Ultima
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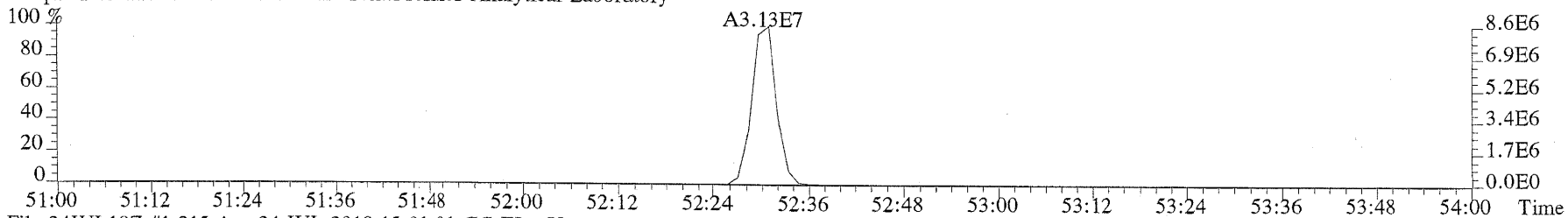
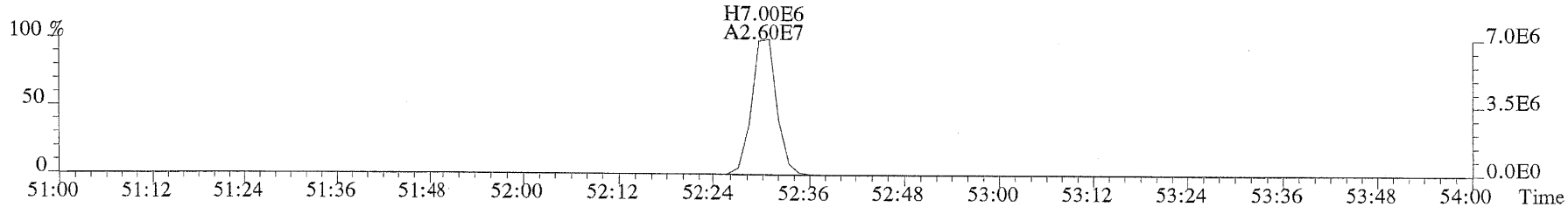
Sample Text:11704-007-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-315 Acq:24-JUL-2018 15:01:01 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:11704-007-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11704-008-0001-SA Filename: 23JUL18Z Sam:11 Acquired: 24-JUL-18 00:32:18 ICal: DAILY209FAL4-7-23-18
Client ID: LDW-Y1-IN-ENR+AC-CA-S010 ConCal: ST072318Z1 EndCal: ST072318Z2
Results: 11704-8 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	*	n	NotFnd	0.96	*		1840	1480	2.78			
13C-PCB-1	9.29e+07	3.12	y	14:35	1.11	9440					94.4	2.35e+07	7.63e+06
PCB-2	*	*	n	NotFnd	0.90	*		1840	1480	3.11			
PCB-3	*	*	n	NotFnd	0.94	*		1840	1480	3.11			
13C-PCB-3	9.64e+07	3.19	y	17:02	1.14	9550					95.5	2.18e+07	6.78e+06
PCB-4	1.39e+05	1.51	y	18:17	1.19	22.8		-	-	*			
PCB-10	*	*	n	NotFnd	0.98	*		654	1630	3.27			
13C-PCB-4	5.12e+07	1.57	y	18:16	0.60	9530					95.3	9.17e+06	5.92e+06
PCB-9	*	*	n	NotFnd	1.15	*		654	1630	2.77			
PCB-7	*	*	n	NotFnd	1.18	*		654	1630	2.70			
PCB-6	1.54e+05	1.53	y	20:36	1.14	19.6	J	-	-	*			
PCB-8	3.33e+05	1.43	y	20:58	1.03	47.1		-	-	*			
PCB-5	*	*	n	NotFnd	1.29	*		654	1630	2.48			
PCB-14	1.05e+06	1.49	y	22:03	1.14	134		-	-	*			
PCB-11	2.77e+05	1.42	y	23:11	1.09	37.1		-	-	*			
PCB-13	*	*	n	NotFnd	1.15	*		654	1630	2.78			
PCB-12	*	*	n	NotFnd	1.17	*		654	1630	2.72			
PCB-15	2.28e+05	1.39	y	23:51	1.04	25.5		-	-	*			
13C-PCB-15	8.58e+07	1.58	y	23:50	1.01	9550					95.5	1.22e+07	7.83e+06
PCB-19	1.04e+05	1.01	y	22:10	1.04	18.2	J	-	-	*			
PCB-30	*	*	n	NotFnd	1.46	*		1330	920	2.52			
PCB-18	9.47e+05	1.10	y	23:44	1.05	166		-	-	*			
PCB-17	4.49e+05	1.06	y	23:54	1.14	72.2		-	-	*			
PCB-27	1.05e+05	1.02	y	24:25	1.46	13.2	J	-	-	*			
PCB-24	6.59e+04	1.01	y	24:27	1.51	7.99	J	-	-	*			
PCB-16	3.08e+05	1.03	y	24:55	1.21	46.7		-	-	*			
PCB-32	1.95e+05	1.19	y	24:56	1.32	27.0		-	-	*			
13C-PCB-19	5.45e+07	1.10	y	22:10	0.62	9880					98.8	8.01e+06	7.20e+06
13C-PCB-9	8.89e+07	1.59	y	19:57	-	56.0							
PCB-34	*	*	n	NotFnd	0.84	*		1380	1040	5.94			
PCB-23	*	*	n	NotFnd	1.01	*		1380	1040	4.94			
PCB-29	*	*	n	NotFnd	0.95	*		1380	1040	5.24			
PCB-26	3.55e+05	1.06	y	26:13	0.89	64.1		-	-	*			
PCB-25	1.62e+05	1.08	y	26:23	0.89	29.3		-	-	*			
PCB-31	9.11e+05	1.11	y	26:43	0.93	157		-	-	*			
PCB-28	1.06e+06	1.12	y	26:50	1.10	154		-	-	*			
PCB-20	5.91e+05	1.05	y	27:25	0.96	98.5		-	-	*		Co-elute PCB 21/33	
PCB-21	5.91e+05	1.05	y	27:25	0.96	98.5		-	-	*		Co-elute PCB 20/33	
PCB-33	5.91e+05	1.05	y	27:25	0.96	98.5		-	-	*		Co-elute PCB 20/21	
PCB-22	2.93e+05	1.07	y	27:49	1.00	46.7		-	-	*			
PCB-36	2.90e+06	1.04	y	28:26	0.93	497		-	-	*			
PCB-39	*	*	n	NotFnd	0.97	*		1380	1040	5.13			
PCB-38	*	*	n	NotFnd	0.97	*		1380	1040	5.10			
PCB-35	*	*	n	NotFnd	0.92	*		1380	1040	5.40			
PCB-37	1.45e+05	1.16	y	30:31	1.07	21.7		-	-	*			
13C-PCB-37	6.24e+07	1.06	y	30:30	1.24	9700					97.0	6.31e+06	5.82e+06

PCB-54	1.97e+04	0.82	y	25:43	1.03	3.06	J	-	-	*			
PCB-50	2.52e+04	0.82	y	26:51	0.76	5.30	J	-	-	*			
PCB-53	2.78e+05	0.78	y	27:26	0.76	58.0		-	-	*			
PCB-51	8.35e+04	0.87	y	27:45	0.82	16.3	J	-	-	*			
PCB-45	1.74e+05	0.77	y	28:11	0.69	39.9		-	-	*			
PCB-46	7.25e+04	0.72	y	28:38	0.65	17.7	J	-	-	*			
PCB-52	2.86e+06	0.79	y	29:05	1.05	435		-	-	*	Co-elute PCB 69		
PCB-69	2.86e+06	0.79	y	29:05	1.05	435		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	0.91	*		584	664	2.20			
PCB-43	1.49e+06	0.81	y	29:23	0.79	300		-	-	*	Co-elute PCB 49		
PCB-49	1.49e+06	0.81	y	29:23	0.79	300		-	-	*	Co-elute PCB 43		
PCB-47	4.66e+05	0.76	y	29:34	0.97	76.6		-	-	*			
PCB-48	2.80e+05	0.77	y	29:40	0.99	45.1		-	-	*	Co-elute PCB 75		
PCB-75	2.80e+05	0.77	y	29:40	0.99	45.1		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	0.95	*		584	664	2.10			
PCB-62	*	*	n	NotFnd	1.10	*		584	664	1.82			
PCB-44	1.17e+06	0.71	y	30:19	0.76	246		-	-	*			
PCB-42	4.45e+05	0.75	y	30:32	1.00	70.6		-	-	*	Co-elute PCB 59		
PCB-59	4.45e+05	0.75	y	30:32	1.00	70.6		-	-	*	Co-elute PCB 42		
PCB-72	1.01e+06	0.78	y	31:05	1.05	153		-	-	*	Co-elute PCB 41/71/64		
PCB-41	1.01e+06	0.78	y	31:05	1.05	153		-	-	*	Co-elute PCB 72/71/64		
PCB-71	1.01e+06	0.78	y	31:05	1.05	153		-	-	*	Co-elute PCB 72/41/64		
PCB-64	1.01e+06	0.78	y	31:05	1.05	153		-	-	*	Co-elute PCB 72/41/71		
PCB-68	7.40e+04	0.71	y	31:21	1.15	10.3	J	-	-	*			
PCB-40	1.40e+05	0.71	y	31:33	0.67	33.5		-	-	*			
PCB-57	2.41e+04	0.75	y	31:53	1.09	3.54	J	-	-	*			
PCB-67	3.56e+04	0.74	y	32:12	1.19	4.76	J	-	-	*			
PCB-58	1.84e+04	0.71	y	32:16	1.04	2.82	J	-	-	*			
PCB-63	4.39e+04	0.78	y	32:26	1.12	6.27	J	-	-	*			
PCB-74	3.84e+05	0.77	y	32:44	1.23	49.7		-	-	*			
PCB-61	1.07e+06	0.76	y	32:55	1.23	139		-	-	*	Co-elute PCB 70		
PCB-70	1.07e+06	0.76	y	32:55	1.23	139		-	-	*	Co-elute PCB 61		
PCB-76	1.06e+06	0.74	y	33:09	1.22	140		-	-	*	Co-elute PCB 66		
PCB-66	1.06e+06	0.74	y	33:09	1.22	140		-	-	*	Co-elute PCB 76		
PCB-80	2.94e+04	0.78	y	33:20	1.32	3.55	J	-	-	*			
PCB-55	3.46e+05	0.75	y	33:39	1.25	44.3		-	-	*			
13C-PCB-54	6.27e+07	0.78	y	25:41	1.09	11100					111	6.82e+06	8.81e+06
PCB-104	1.09e+07	1.52	y	30:11	1.14	1660		-	-	*			
PCB-96	5.35e+04	1.56	y	31:21	1.04	8.85	J	-	-	*			
PCB-103	7.22e+04	1.50	y	31:53	0.90	13.9	J	-	-	*			
PCB-100	6.13e+04	1.46	y	32:13	0.92	11.5	J	-	-	*			
PCB-94	2.88e+04	1.64	y	32:40	0.79	6.29	J	-	-	*			
PCB-98	*	*	n	NotFnd	1.00	*		556	428	1.90	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.00	*		556	428	1.90	Co-elute PCB 98		
PCB-95	4.30e+06	1.55	y	33:10	0.84	886		-	-	*			
PCB-93	*	*	n	NotFnd	0.77	*		556	428	2.46			
PCB-88	*	*	n	NotFnd	0.89	*		556	428	2.12	Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	0.89	*		556	428	2.12	Co-elute PCB 88		
PCB-121	2.17e+07	1.56	y	33:38	1.11	3390		-	-	*			
13C-PCB-104	5.79e+07	1.59	y	30:09	0.88	12700					127	8.08e+06	4.98e+06
13C-PCB-28	6.53e+07	1.03	y	26:48	1.39	9080					90.8	7.43e+06	6.69e+06
13C-PCB-52	5.19e+07	0.76	y	29:04	-	44.8							

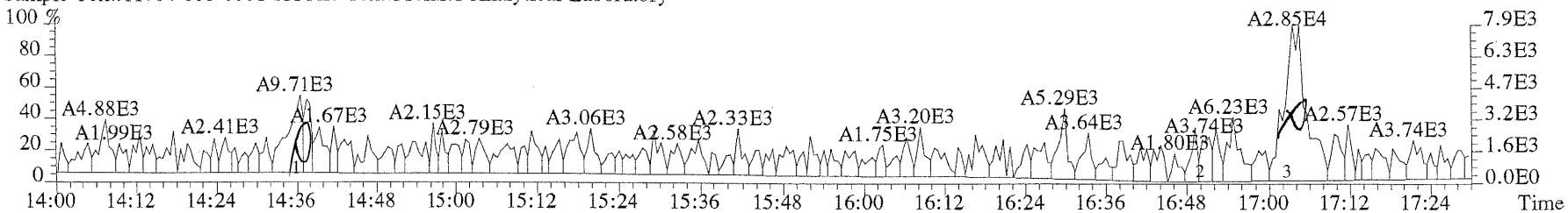
PCB-56	3.99e+05	0.78	y	34:06	0.96	67.3		-	-	*		Co-elute PCB 60
PCB-60	3.99e+05	0.78	y	34:06	0.96	67.3		-	-	*		Co-elute PCB 56
PCB-79	5.84e+04	0.87	y	35:06	1.01	9.43	J	-	-	*		
PCB-78	1.37e+07	0.77	y	35:48	0.98	2290		-	-	*		
PCB-81	1.01e+05	0.82	y	36:18	1.04	16.1	J	-	-	*		
13C-PCB-81	6.05e+07	0.78	y	36:17	1.14	8980					89.8	4.82e+06 6.20e+06
PCB-77	8.67e+04	0.75	y	36:54	0.98	14.2	J	-	-	*		
13C-PCB-77	6.23e+07	0.79	y	36:51	1.16	9040					90.4	5.19e+06 6.51e+06
PCB-155	2.10e+07	1.35	y	34:21	1.13	3830		-	-	*		
PCB-150	*	*	n	NotFnd	1.10	*		552	456	2.29		
PCB-152	*	*	n	NotFnd	1.05	*		552	456	2.41		
PCB-145	*	*	n	NotFnd	1.08	*		552	456	2.34		
PCB-136	6.44e+05	1.32	y	36:42	1.01	133		-	-	*		
PCB-148	*	*	n	NotFnd	0.87	*		552	456	2.92		
PCB-154	1.08e+05	1.28	y	37:18	0.98	22.9		-	-	*		
13C-PCB-155	4.82e+07	1.32	y	34:18	0.90	9010					90.1	5.58e+06 4.36e+06
13C-PCB-111	6.74e+07	1.61	y	36:26	1.21	9390					93.9	8.28e+06 4.99e+06
13C-PCB-101	5.93e+07	1.60	y	34:46	-	50.5						
PCB-84	2.19e+06	1.53	y	34:26	0.76	529		-	-	*		Co-elute PCB 92
PCB-92	2.19e+06	1.53	y	34:26	0.76	529		-	-	*		Co-elute PCB 84
PCB-89	4.67e+04	1.36	y	34:36	0.75	11.5	J	-	-	*		
PCB-90	4.17e+06	1.56	y	34:47	0.87	882		-	-	*		Co-elute PCB 101
PCB-101	4.17e+06	1.56	y	34:47	0.87	882		-	-	*		Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.92	*		1650	1480	7.92		
PCB-99	1.90e+06	1.55	y	35:06	1.04	337		-	-	*		
PCB-119	1.46e+05	1.39	y	35:33	1.11	24.1		-	-	*		
PCB-83	2.24e+05	1.45	y	35:42	0.88	46.8		-	-	*		Co-elute PCB 112
PCB-112	2.24e+05	1.45	y	35:42	0.88	46.8		-	-	*		Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.10	*		1650	1480	6.65		
PCB-97	1.12e+06	1.56	y	36:02	0.99	208		-	-	*		
PCB-86	*	*	n	NotFnd	0.89	*		1650	1480	8.22		
PCB-125	1.57e+06	1.54	y	36:17	0.98	293		-	-	*		Co-elute PCB 87/117
PCB-87	1.57e+06	1.54	y	36:17	0.98	293		-	-	*		Co-elute PCB 125/117
PCB-117	1.57e+06	1.54	y	36:17	0.98	293		-	-	*		Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.24	*		1650	1480	5.90		Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.24	*		1650	1480	5.90		Co-elute PCB 111
PCB-85	6.33e+05	1.49	y	36:32	0.99	118		-	-	*		Co-elute PCB 116
PCB-116	6.33e+05	1.49	y	36:32	0.99	118		-	-	*		Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.17	*		1650	1480	6.24		
PCB-110	5.11e+06	1.50	y	36:55	1.21	780		-	-	*		
PCB-82	3.10e+05	1.55	y	37:30	0.68	84.7		-	-	*		
PCB-124	1.06e+05	1.39	y	38:11	1.01	19.2	J	-	-	*		
PCB-108	1.83e+05	1.70	y	38:21	0.94	35.9		-	-	*		Co-elute PCB 107
PCB-107	1.83e+05	1.70	y	38:21	0.94	35.9		-	-	*		Co-elute PCB 108
PCB-123	1.85e+06	1.55	y	38:41	1.21	293	J	-	-	*		
13C-PCB-123	5.22e+07	1.64	y	38:28	0.96	9720					97.2	6.46e+06 4.10e+06
PCB-118	1.85e+06	1.55	y	38:41	0.92	356		-	-	*		Co-elute PCB 106
PCB-106	1.85e+06	1.55	y	38:41	0.92	356		-	-	*		Co-elute PCB 118
13C-PCB-118	5.61e+07	1.54	y	38:39	1.09	9230					92.3	6.62e+06 4.11e+06
PCB-114	3.73e+04	1.64	y	39:17	0.93	7.38	J	-	-	*		
13C-PCB-114	5.43e+07	1.57	y	39:15	1.04	9380					93.8	6.68e+06 4.24e+06
PCB-122	3.36e+04	1.56	y	39:25	1.09	5.70	J	-	-	*		
PCB-105	5.99e+05	1.55	y	40:05	0.99	111		-	-	*		
13C-PCB-105	5.44e+07	1.59	y	40:05	1.04	9380					93.8	6.55e+06 4.16e+06

PCB-127	*	*	n	NotFnd	0.94	*		748	716	3.61			
PCB-126	*	*	n	NotFnd	1.01	*		748	716	3.75			
13C-PCB-126	5.29e+07	1.58	y	42:13	1.04	9130					91.3	5.86e+06	3.78e+06
PCB-151	5.98e+05	1.22	y	37:55	0.73	136		-	-	*			
PCB-135	4.30e+05	1.22	y	38:06	0.79	90.3		-	-	*			
PCB-144	1.16e+05	1.11	y	38:13	0.70	27.6		-	-	*			
PCB-147	8.30e+04	1.10	y	38:21	0.79	17.3	J	-	-	*			
PCB-139	2.31e+06	1.23	y	38:34	0.79	482		-	-	*		Co-elute PCB 149	
PCB-149	2.31e+06	1.23	y	38:34	0.79	482		-	-	*		Co-elute PCB 139	
PCB-140	*	*	n	NotFnd	0.79	*		844	1010	4.82			
PCB-143	1.76e+05	1.10	y	39:10	0.74	39.7		-	-	*		Co-elute PCB 134	
PCB-134	1.76e+05	1.10	y	39:10	0.74	39.7		-	-	*		Co-elute PCB 143	
PCB-131	6.32e+04	1.21	y	39:27	0.74	14.2	J	-	-	*		Co-elute PCB 133	
PCB-133	6.32e+04	1.21	y	39:27	0.74	14.2	J	-	-	*		Co-elute PCB 131	
PCB-142	2.40e+07	1.23	y	39:37	0.67	5990		-	-	*			
PCB-165	4.72e+05	1.14	y	39:50	0.87	90.2		-	-	*		Co-elute PCB 146	
PCB-146	4.72e+05	1.14	y	39:50	0.87	90.2		-	-	*		Co-elute PCB 165	
PCB-161	9.14e+05	1.23	y	40:05	0.82	185		-	-	*		Co-elute PCB 132	
PCB-132	9.14e+05	1.23	y	40:05	0.82	185		-	-	*		Co-elute PCB 161	
PCB-153	2.61e+06	1.22	y	40:13	0.88	490		-	-	*			
PCB-168	*	*	n	NotFnd	1.00	*		844	1010	3.80			
PCB-141	3.62e+05	1.18	y	40:56	0.76	79.1		-	-	*			
PCB-137	1.26e+05	1.10	y	41:17	0.73	28.6		-	-	*			
PCB-130	1.67e+05	1.25	y	41:22	0.69	40.0		-	-	*			
PCB-138	2.44e+06	1.23	y	41:43	0.99	409		-	-	*		Co-elute PCB 163/164	
PCB-163	2.44e+06	1.23	y	41:43	0.99	409		-	-	*		Co-elute PCB 138/164	
PCB-164	2.44e+06	1.23	y	41:43	0.99	409		-	-	*		Co-elute PCB 138/163	
PCB-158	3.02e+05	1.21	y	41:57	1.02	49.3		-	-	*		Co-elute PCB 160	
PCB-160	3.02e+05	1.21	y	41:57	1.02	49.3		-	-	*		Co-elute PCB 158	
PCB-129	8.37e+04	1.33	y	42:11	0.65	21.5		-	-	*			
PCB-166	*	*	n	NotFnd	0.96	*		844	1010	3.94			
PCB-159	4.08e+04	1.24	y	42:58	1.05	6.46	J	-	-	*			
PCB-128	3.58e+05	1.19	y	43:12	0.86	69.4		-	-	*		Co-elute PCB 162	
PCB-162	3.58e+05	1.19	y	43:12	0.86	69.4		-	-	*		Co-elute PCB 128	
PCB-167	5.74e+04	1.25	y	43:35	0.93	9.92	J	-	-	*			
13C-PCB-167	6.20e+07	1.25	y	43:34	1.18	9420					94.2	6.85e+06	5.42e+06
PCB-156	1.54e+05	1.15	y	44:49	0.99	25.5		-	-	*			
13C-PCB-156	6.07e+07	1.25	y	44:48	1.15	9510					95.1	6.60e+06	5.23e+06
PCB-157	4.97e+04	1.10	y	45:04	1.02	7.84	J	-	-	*			
13C-PCB-157	6.20e+07	1.27	y	45:03	1.18	9430					94.3	6.98e+06	5.45e+06
PCB-169	*	*	n	NotFnd	0.99	*		844	1010	3.76			
13C-PCB-169	5.67e+07	1.26	y	46:55	1.10	9230					92.3	6.90e+06	5.55e+06

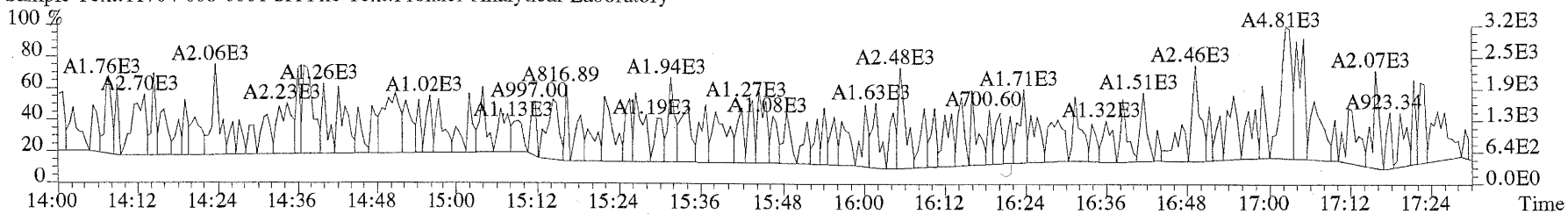
PCB-188	*	*	n	NotFnd	1.08	*		864	560	2.45			
13C-PCB-188	6.52e+07	1.07	y	39:48	1.11	10500					105	6.88e+06	6.53e+06
PCB-184	3.17e+07	1.04	y	40:16	1.13	4730		-	-	*			
PCB-179	2.70e+05	1.05	y	40:59	1.05	43.2		-	-	*			
PCB-176	9.43e+04	1.06	y	41:25	1.03	15.4	J	-	-	*			
PCB-186	*	*	n	NotFnd	1.08	*		864	560	2.44			
PCB-178	1.01e+05	1.01	y	42:30	0.76	22.3		-	-	*			
PCB-175	2.69e+04	1.07	y	42:49	0.79	5.74	J	-	-	*			
PCB-187	5.06e+05	1.10	y	42:58	0.89	95.7		-	-	*		Co-elute PCB 182	
PCB-182	5.06e+05	1.10	y	42:58	0.89	95.7		-	-	*		Co-elute PCB 187	
PCB-183	2.35e+05	0.99	y	43:17	0.86	46.3		-	-	*			
PCB-185	4.44e+04	1.02	y	43:53	0.82	9.16	J	-	-	*			
PCB-174	3.63e+05	0.99	y	44:15	0.76	80.3		-	-	*			
PCB-181	*	*	n	NotFnd	0.87	*		864	560	3.02			
PCB-177	1.81e+05	1.09	y	44:30	0.76	40.0		-	-	*			
PCB-171	8.81e+04	1.11	y	44:48	0.76	19.4	J	-	-	*			
PCB-173	*	*	n	NotFnd	0.72	*		864	560	3.63			
PCB-172	7.73e+05	1.05	y	45:32	0.72	180		-	-	*			
PCB-192	2.20e+07	1.06	y	45:45	1.03	3600		-	-	*			
PCB-180	6.62e+05	1.04	y	45:55	0.99	112		-	-	*			
PCB-193	6.39e+04	1.03	y	46:07	1.09	9.86	J	-	-	*			
PCB-191	*	*	n	NotFnd	1.02	*		864	560	2.59			
PCB-170	2.06e+05	0.98	y	47:13	0.71	49.0		-	-	*			
PCB-190	6.56e+04	1.12	y	47:21	1.00	11.1	J	-	-	*			
PCB-189	*	*	n	NotFnd	1.04	*		864	560	2.51			
13C-PCB-189	5.34e+07	1.06	y	48:33	1.00	9590					95.9	7.04e+06	6.62e+06
PCB-202	4.29e+04	0.89	y	44:56	0.95	9.77	J	-	-	*			
PCB-201	*	*	n	NotFnd	0.94	*		392	512	2.52			
PCB-204	4.67e+07	0.92	y	45:32	0.92	11000		-	-	*			
PCB-197	2.70e+05	0.93	y	45:47	1.00	58.6		-	-	*			
PCB-200	*	*	n	NotFnd	0.93	*		392	512	2.53			
PCB-198	*	*	n	NotFnd	0.62	*		392	512	3.78			
PCB-199	8.96e+04	0.91	y	47:47	0.75	25.8		-	-	*			
PCB-203	9.32e+04	0.96	y	48:02	0.75	26.8		-	-	*		Co-elute PCB 196	
PCB-196	9.32e+04	0.96	y	48:02	0.75	26.8		-	-	*		Co-elute PCB 203	
13C-PCB-202	4.63e+07	0.91	y	44:56	0.84	9830					98.3	4.54e+06	5.04e+06
13C-PCB-178	4.82e+07	1.09	y	42:28	0.86	10000					100	5.23e+06	4.77e+06
13C-PCB-138	5.57e+07	1.25	y	41:42	-	48.1							
PCB-195	1.99e+04	0.93	y	49:08	0.74	8.88	J	-	-	*			
PCB-194	3.93e+04	0.78	y	49:57	0.77	17.0	J	-	-	*			
PCB-205	*	*	n	NotFnd	1.02	*		576	964	4.56			
13C-PCB-205	3.02e+07	0.89	y	50:11	1.20	9410					94.1	3.85e+06	4.43e+06
PCB-208	1.48e+04	1.20	y	49:14	0.91	4.12	J	-	-	*			
13C-PCB-208	3.96e+07	0.78	y	49:13	1.23	12000					120	4.91e+06	6.51e+06
PCB-207	1.41e+05	1.26	y	49:32	0.93	48.6		-	-	*			
PCB-206	2.11e+04	1.49	y	51:23	0.96	9.76	J	-	-	*			
13C-PCB-206	2.25e+07	0.79	y	51:22	0.86	9730					97.3	2.61e+06	3.38e+06
PCB-209	1.92e+05	1.25	y	52:35	1.05	55.0		-	-	*			
13C-PCB-209	3.31e+07	1.19	y	52:33	1.02	12100					121	4.55e+06	3.88e+06
13C-PCB-194	2.69e+07	0.90	y	49:56	-	32.2							

Analyst: _____ Date: 8/20/18

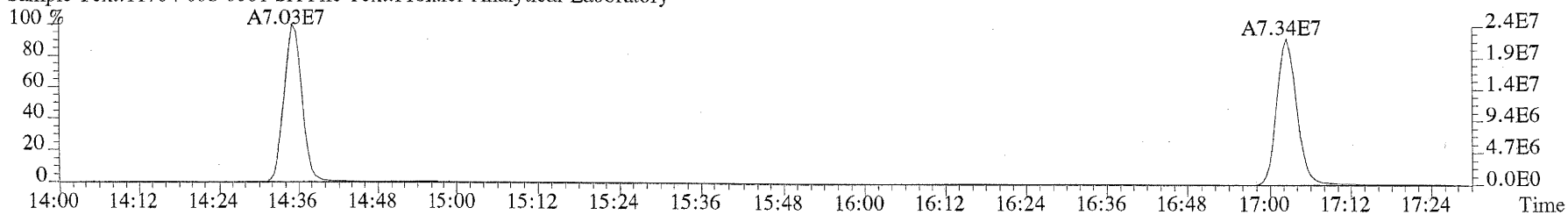
File:23JUL18Z #1-783 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



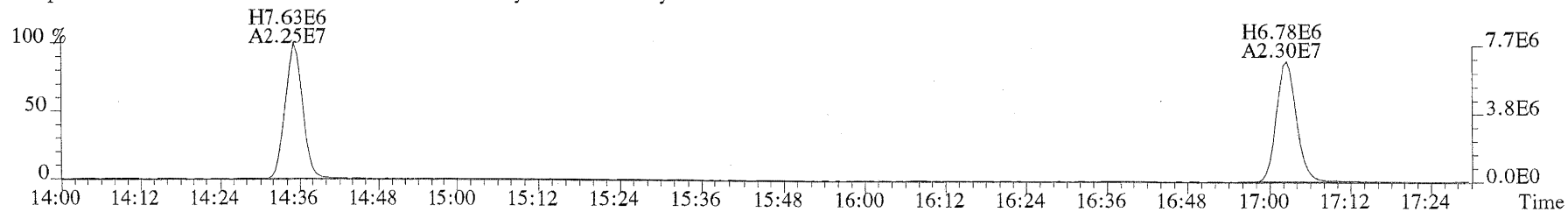
File:23JUL18Z #1-783 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



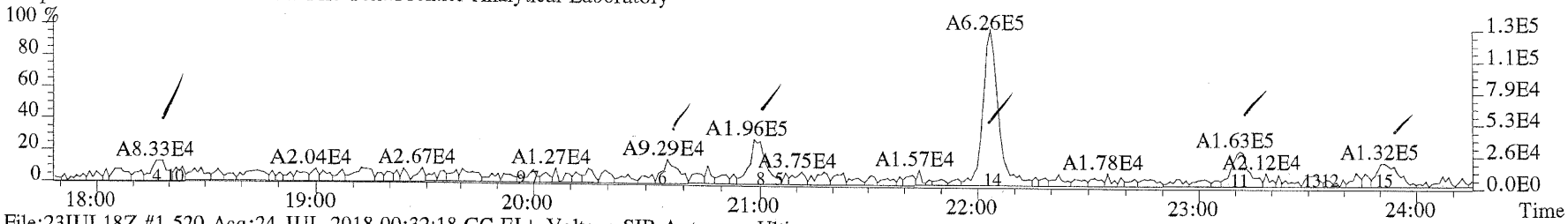
File:23JUL18Z #1-783 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



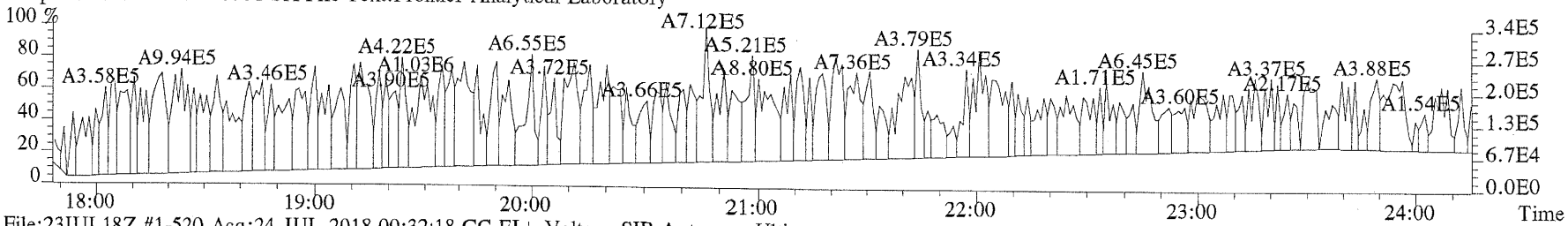
File:23JUL18Z #1-783 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



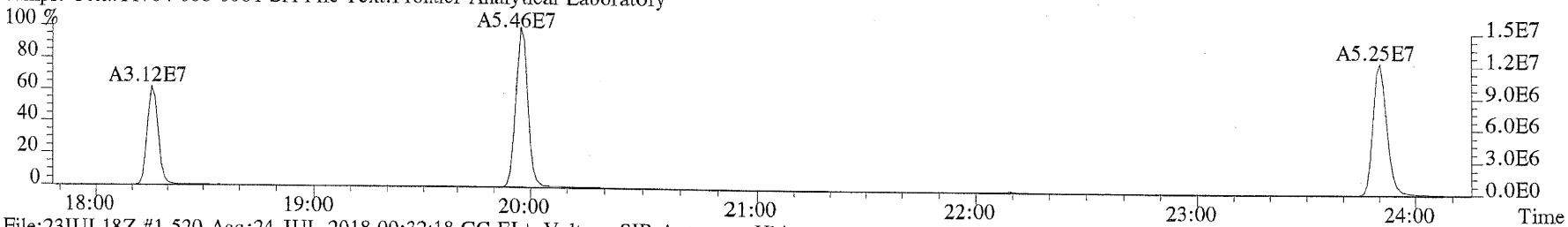
File:23JUL18Z #1-520 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



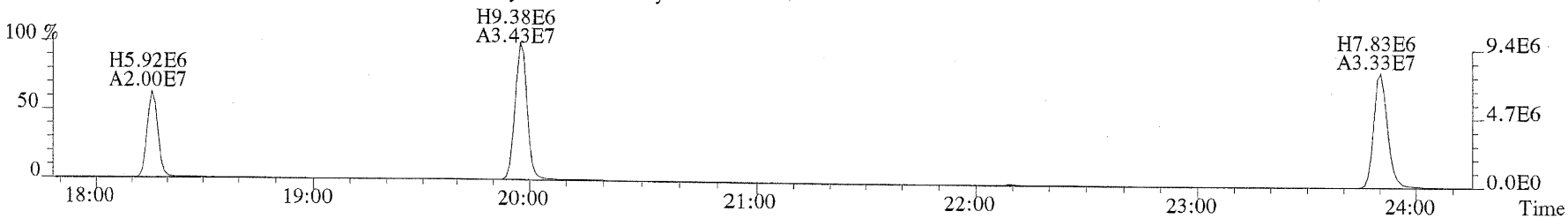
File:23JUL18Z #1-520 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



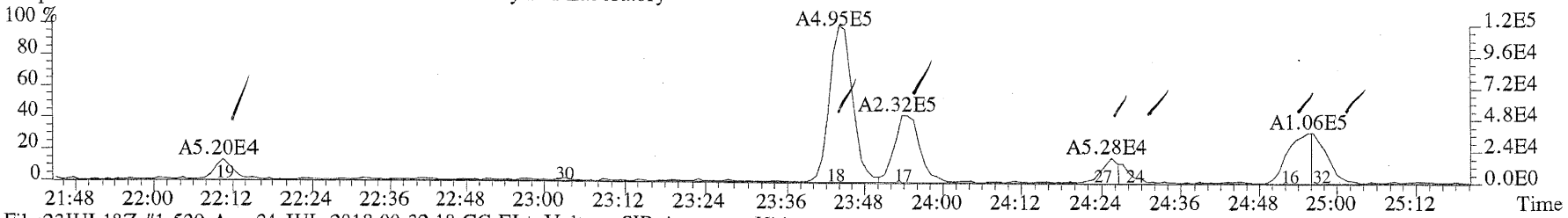
File:23JUL18Z #1-520 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



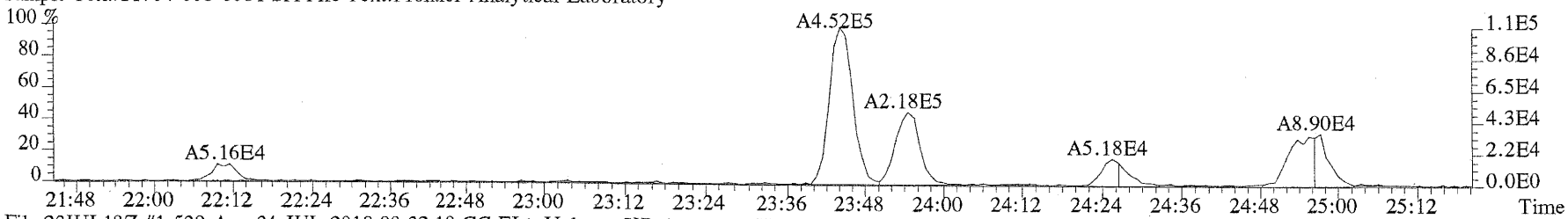
File:23JUL18Z #1-520 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



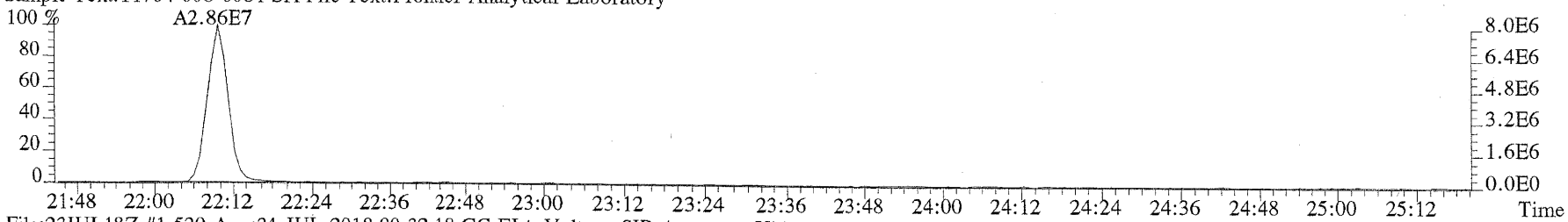
File:23JUL18Z #1-520 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



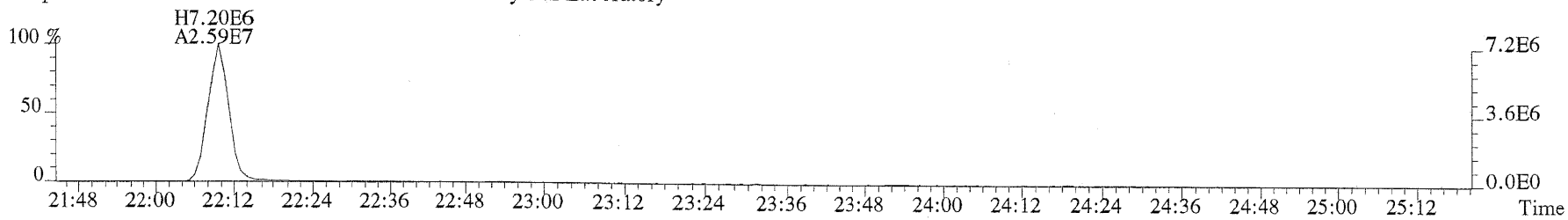
File:23JUL18Z #1-520 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



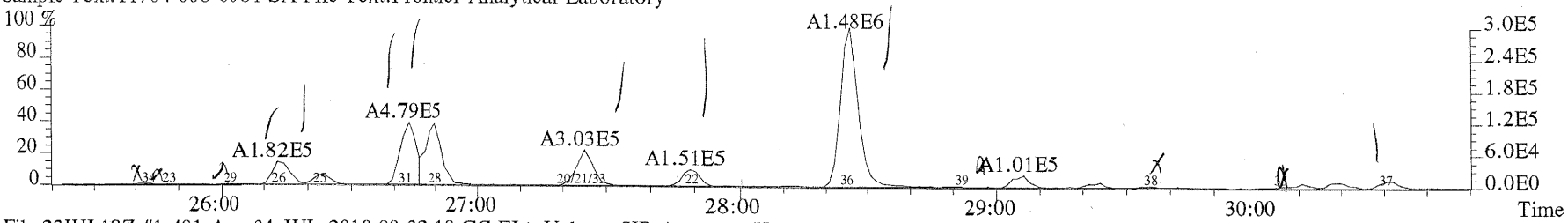
File:23JUL18Z #1-520 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



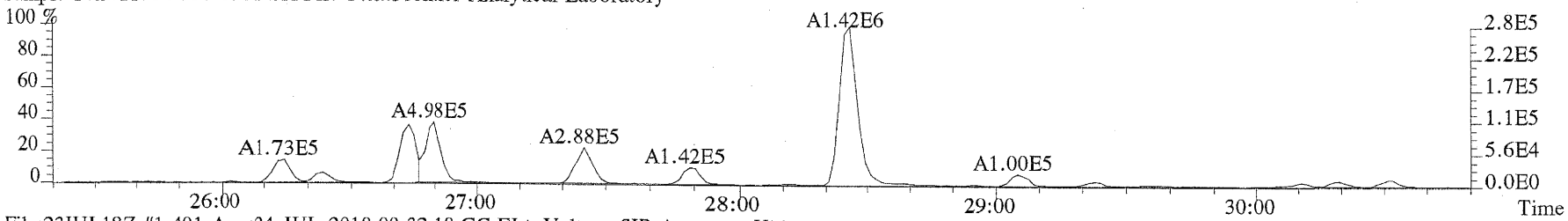
File:23JUL18Z #1-520 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



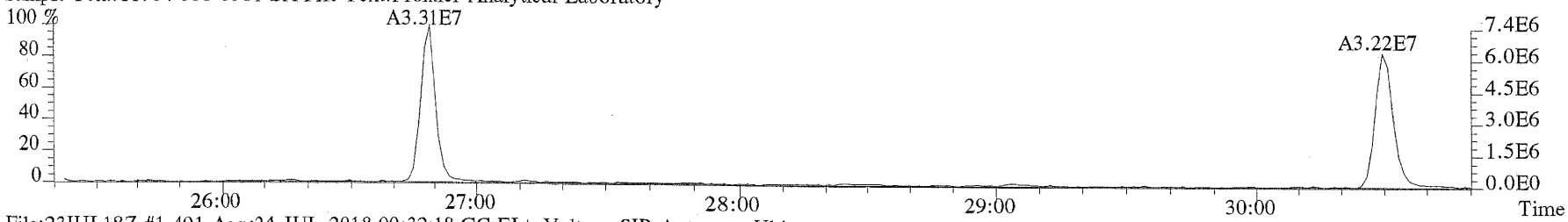
File:23JUL18Z #1-401 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



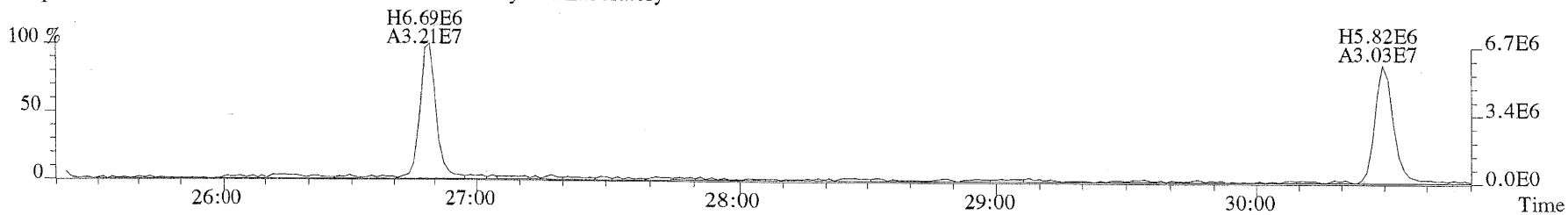
File:23JUL18Z #1-401 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



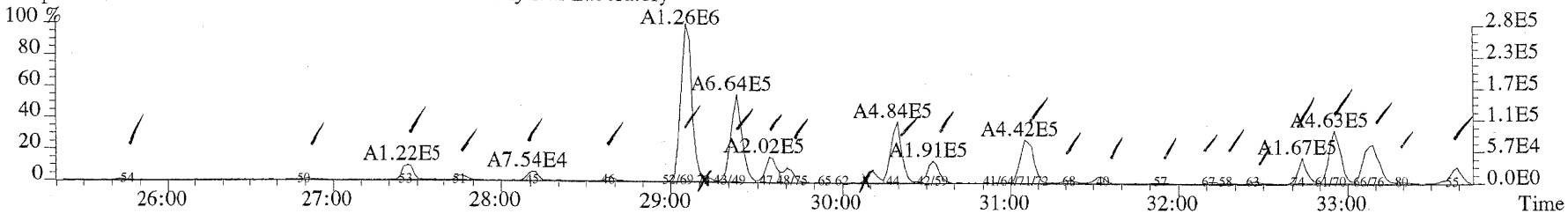
File:23JUL18Z #1-401 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



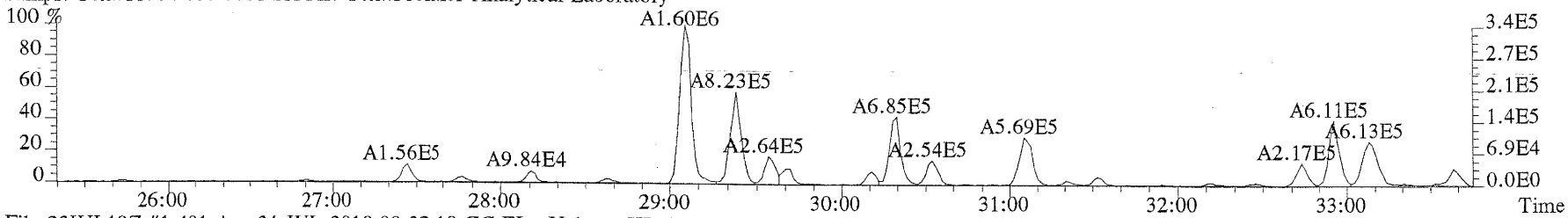
File:23JUL18Z #1-401 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



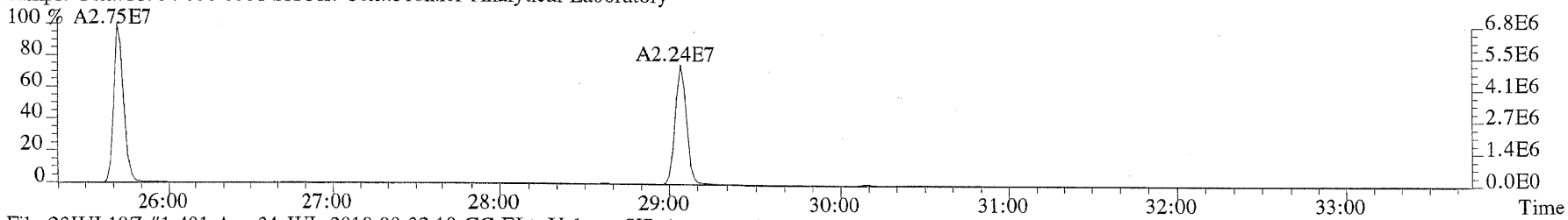
File:23JUL18Z #1-401 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



File:23JUL18Z #1-401 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



File:23JUL18Z #1-401 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



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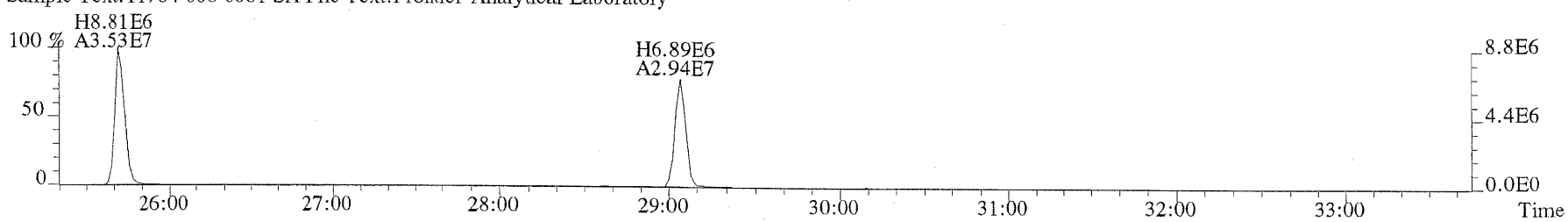
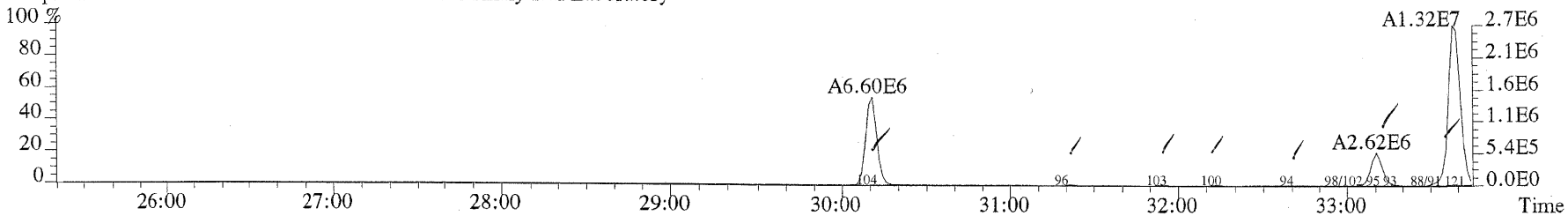
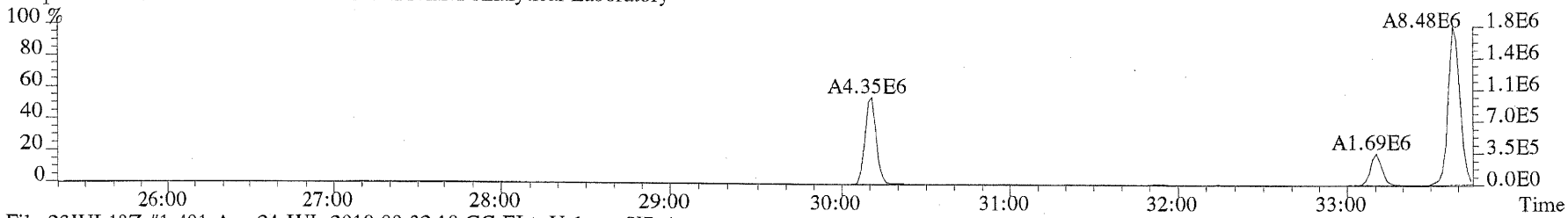
303.9597 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



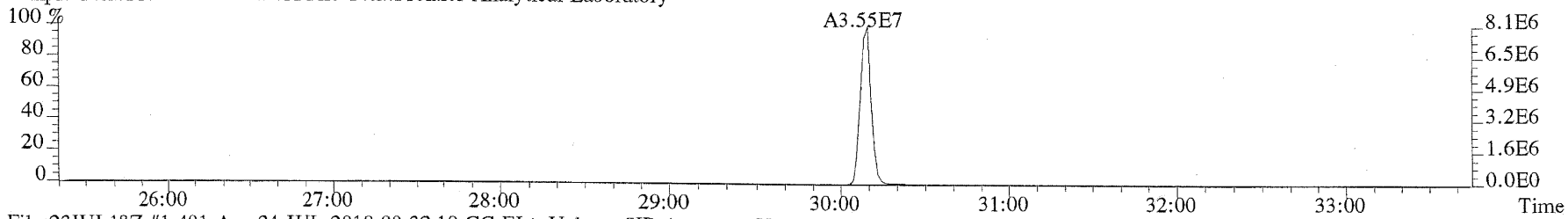
File:23JUL18Z #1-401 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



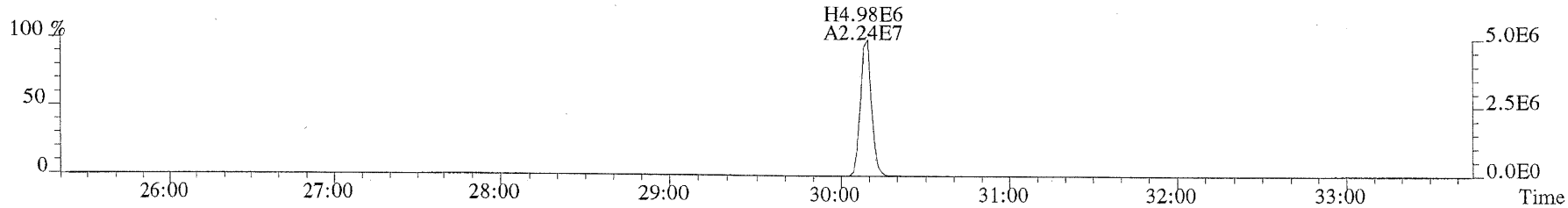
File:23JUL18Z #1-401 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



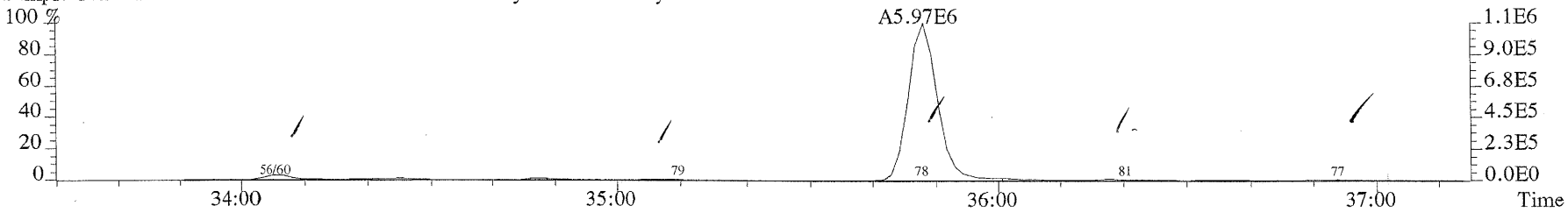
File:23JUL18Z #1-401 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



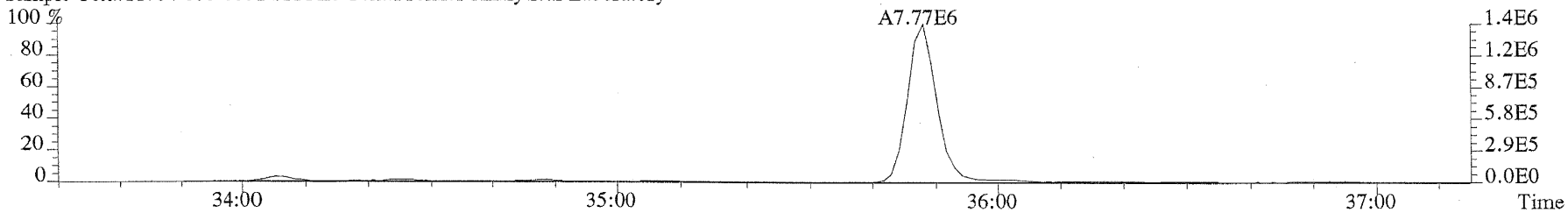
File:23JUL18Z #1-401 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



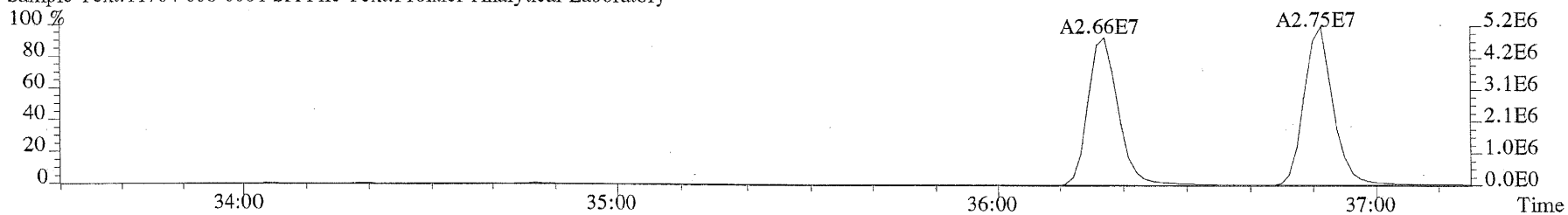
File:23JUL18Z #1-183 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



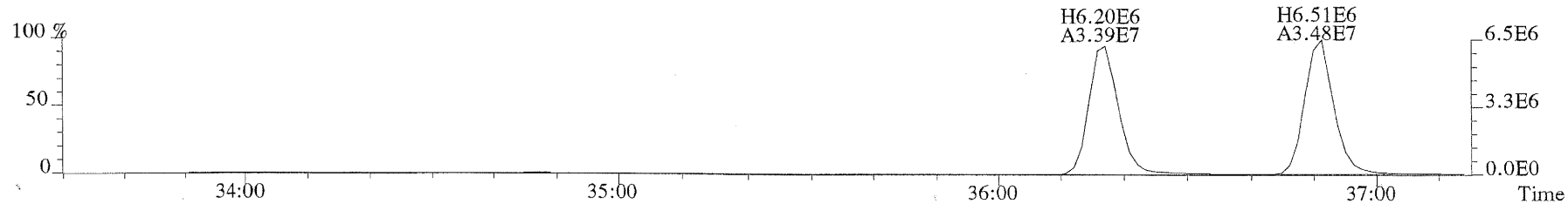
File:23JUL18Z #1-183 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



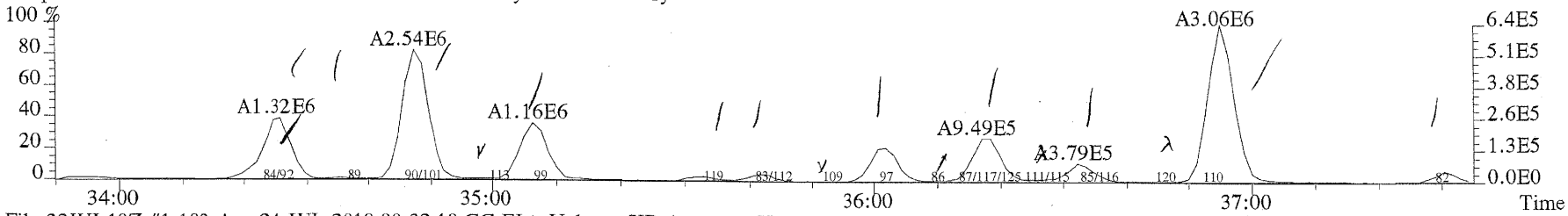
File:23JUL18Z #1-183 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



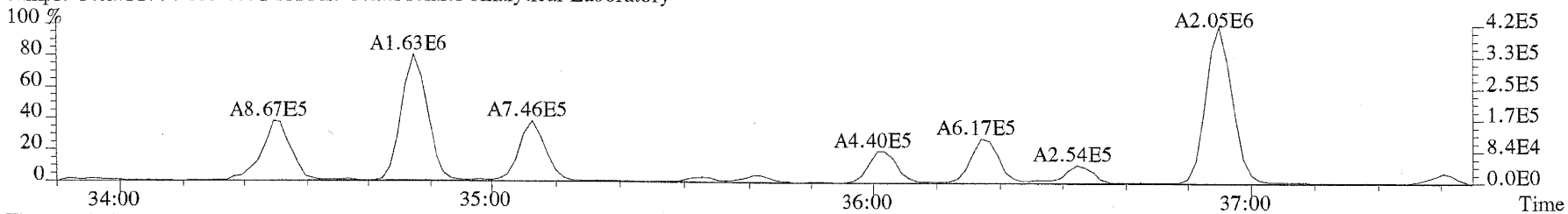
File:23JUL18Z #1-183 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



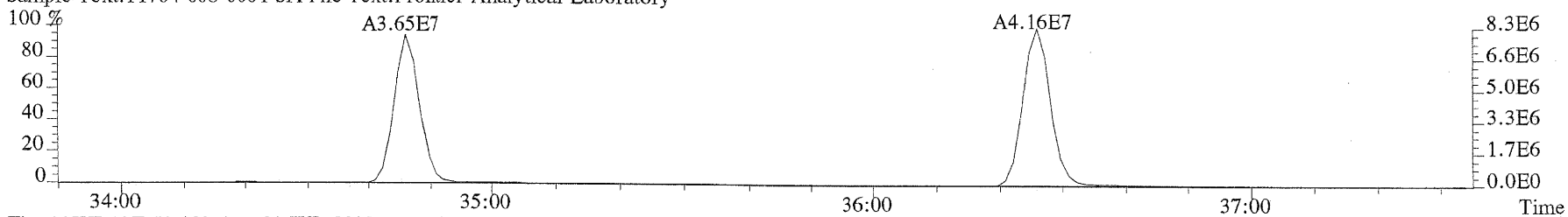
File:23JUL18Z #1-183 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



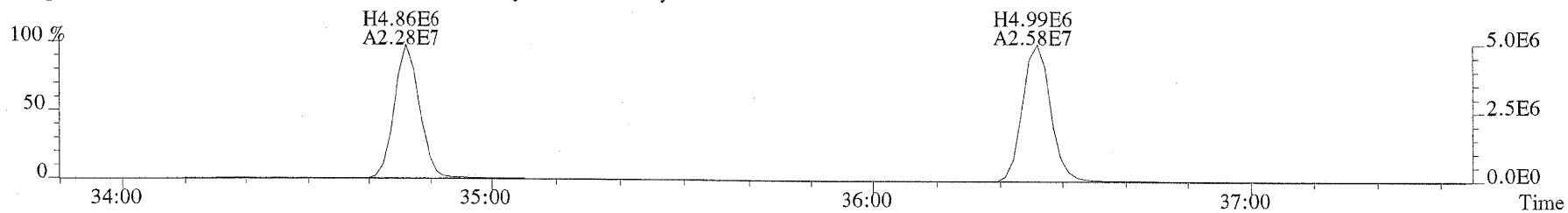
File:23JUL18Z #1-183 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



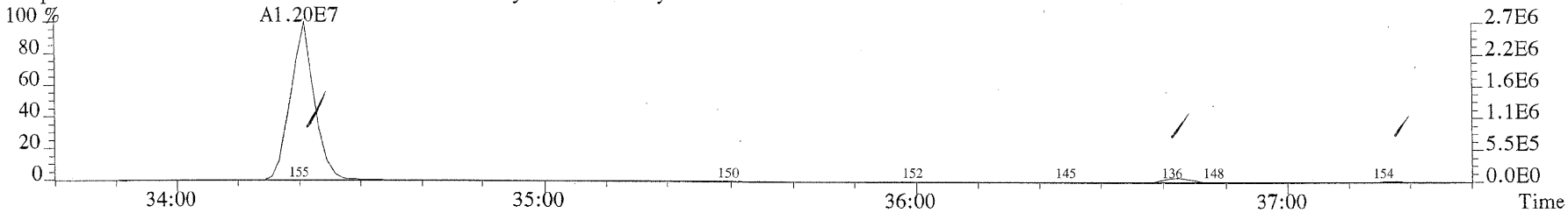
File:23JUL18Z #1-183 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



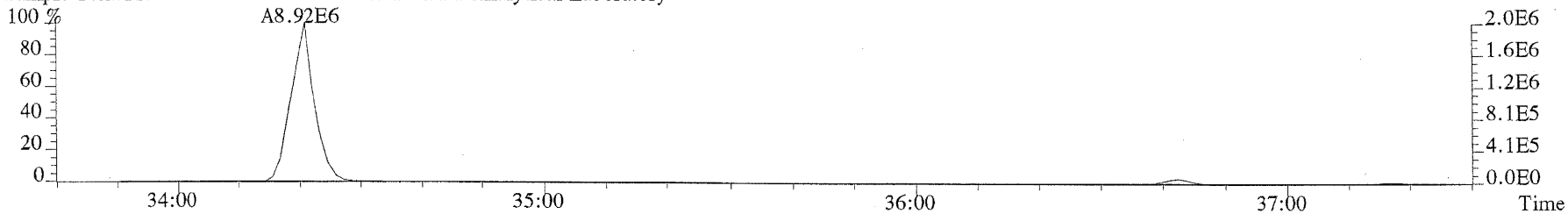
File:23JUL18Z #1-183 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



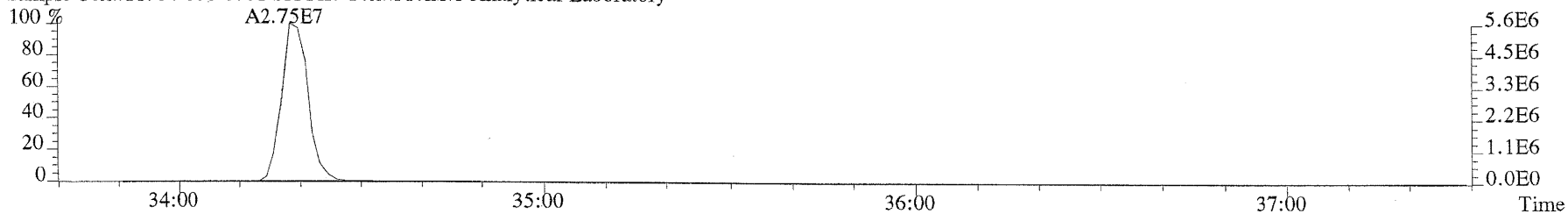
File:23JUL18Z #1-183 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



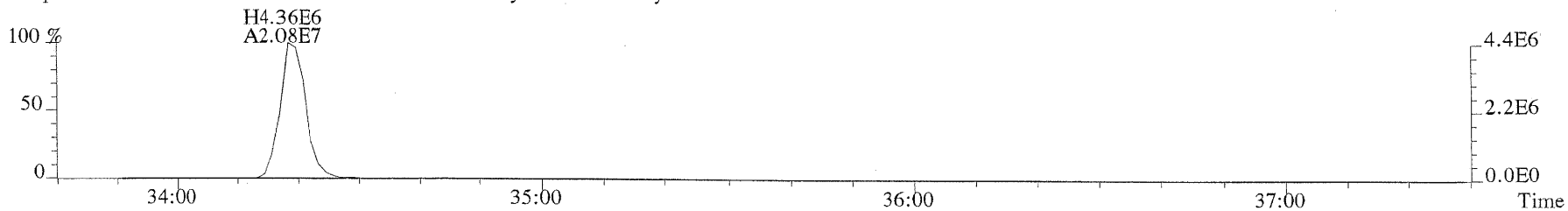
File:23JUL18Z #1-183 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



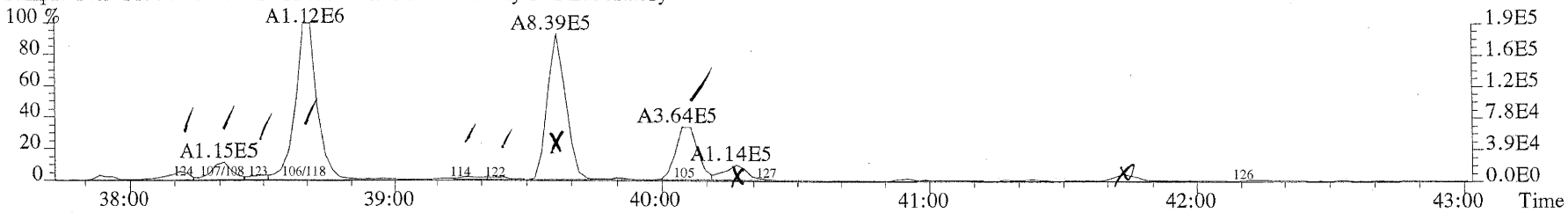
File:23JUL18Z #1-183 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



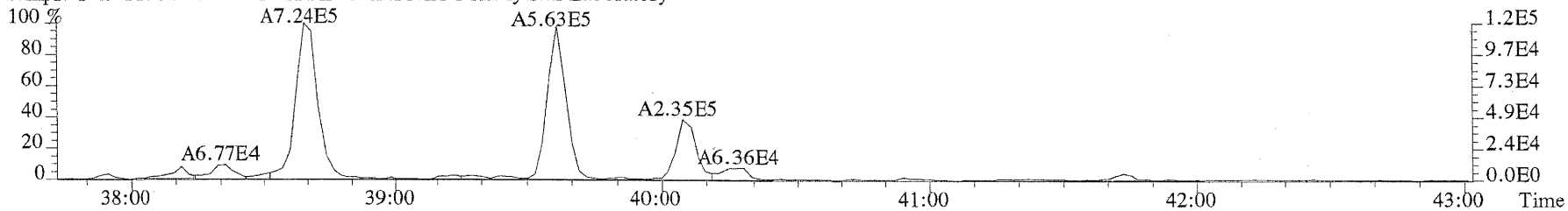
File:23JUL18Z #1-183 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



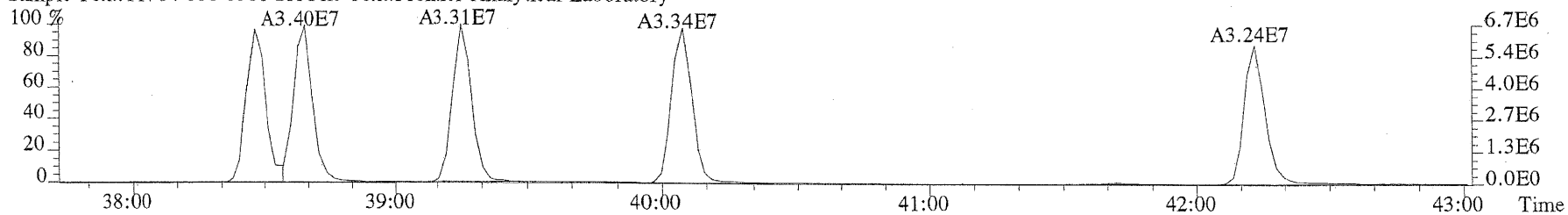
File:23JUL18Z #1-404 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



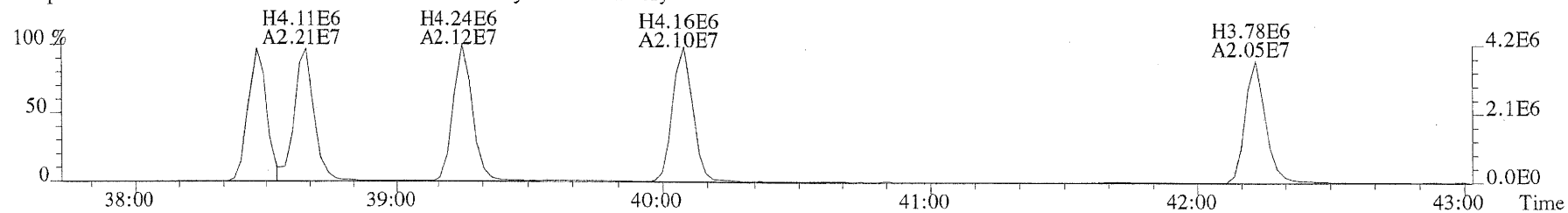
File:23JUL18Z #1-404 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



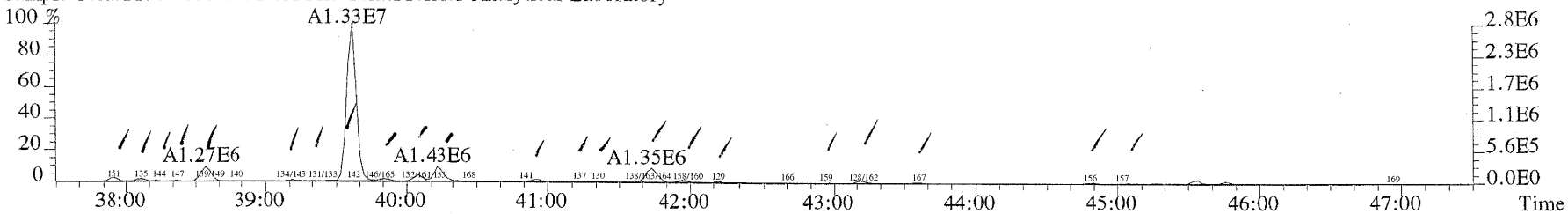
File:23JUL18Z #1-404 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



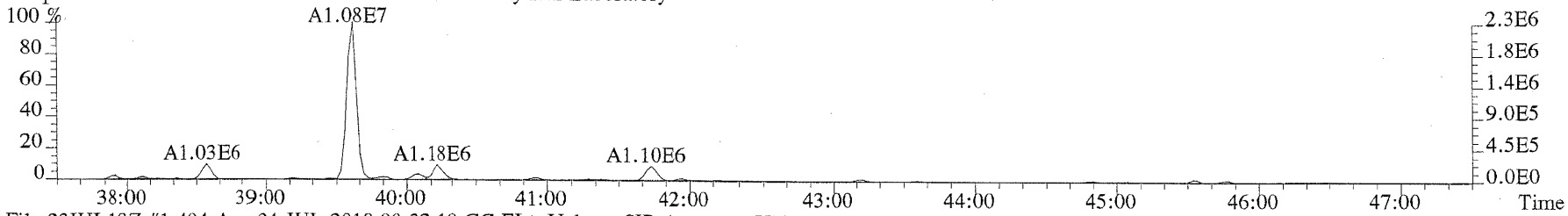
File:23JUL18Z #1-404 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



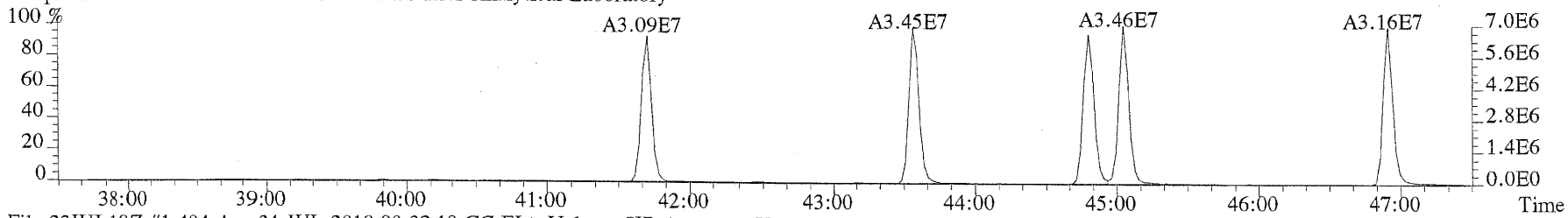
File:23JUL18Z #1-404 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



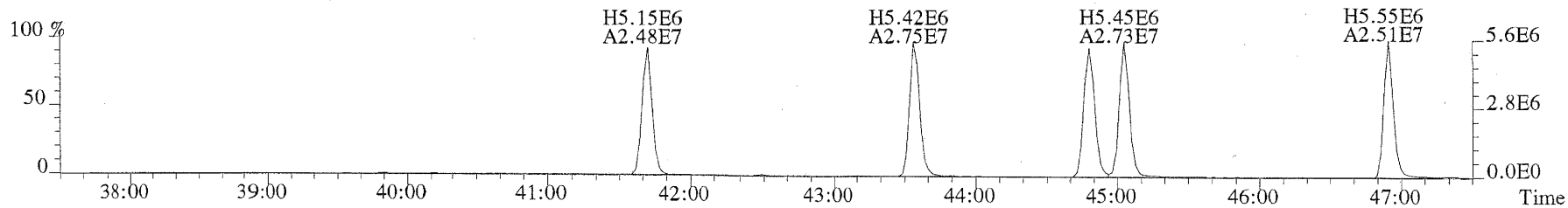
File:23JUL18Z #1-404 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



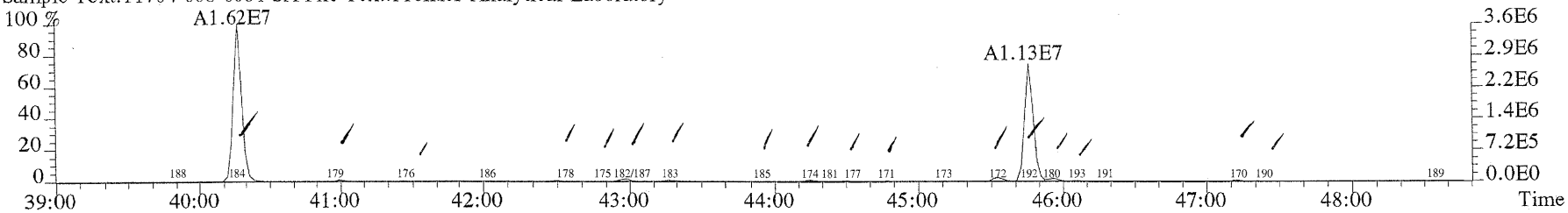
File:23JUL18Z #1-404 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



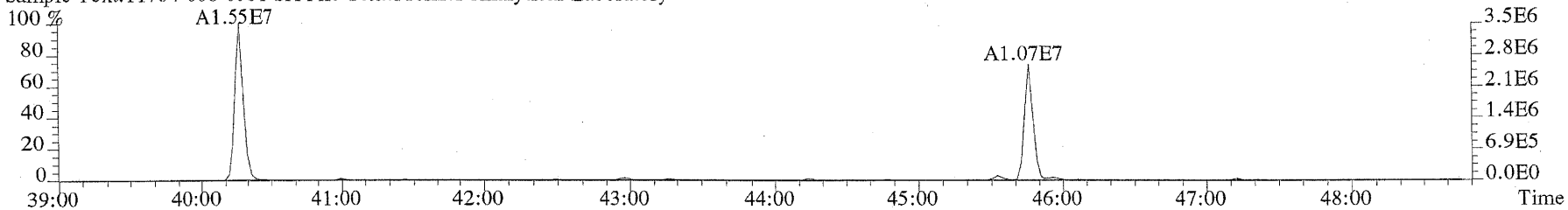
File:23JUL18Z #1-404 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



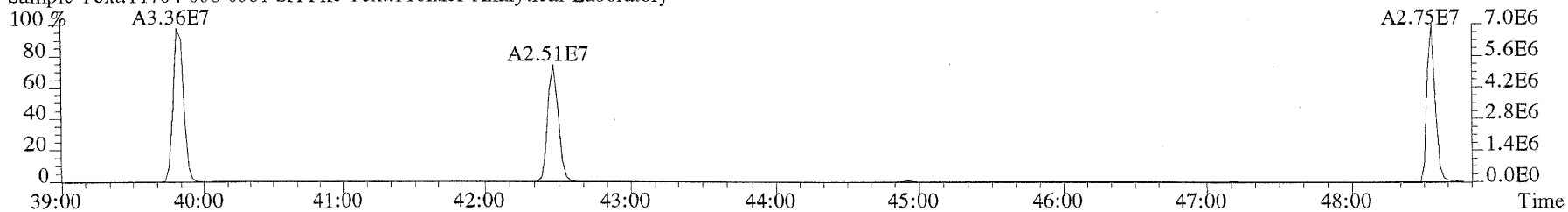
File:23JUL18Z #1-404 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



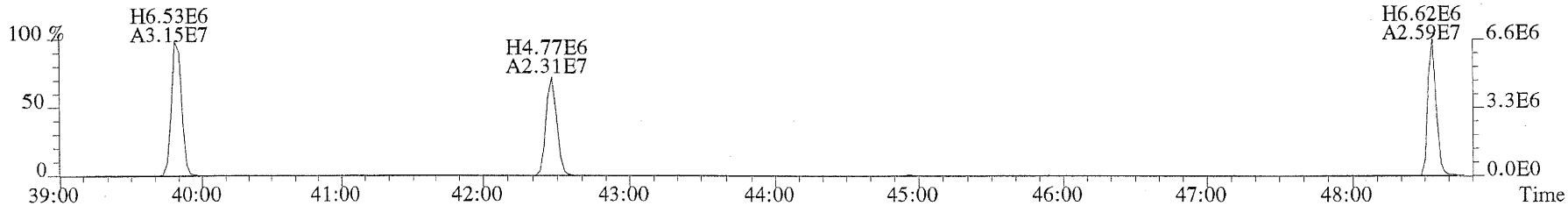
File:23JUL18Z #1-404 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



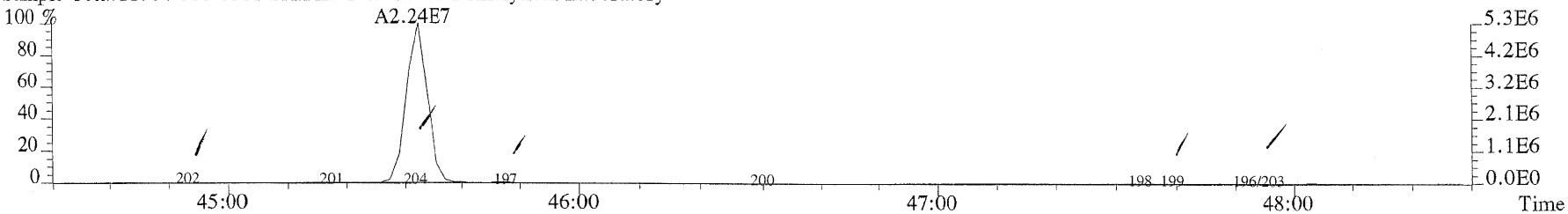
File:23JUL18Z #1-404 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



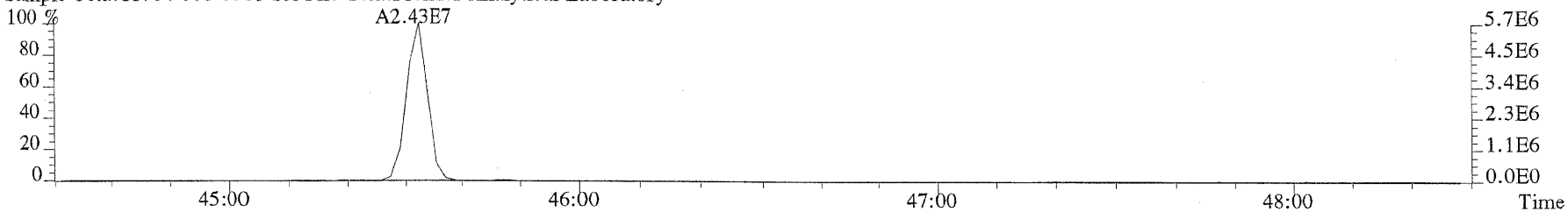
File:23JUL18Z #1-404 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



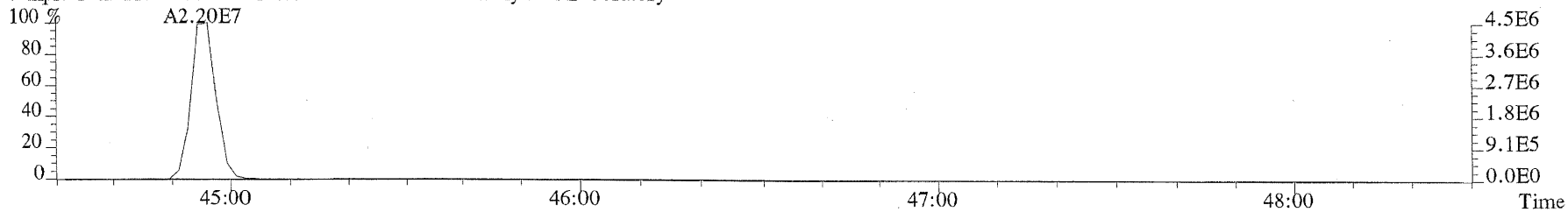
File:23JUL18Z #1-404 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



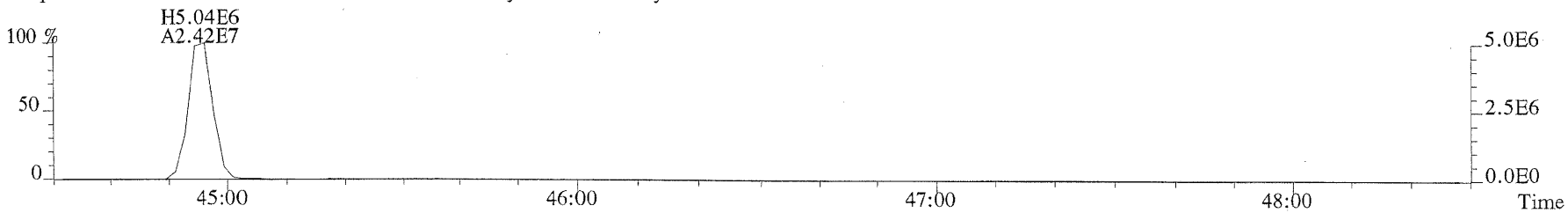
File:23JUL18Z #1-404 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



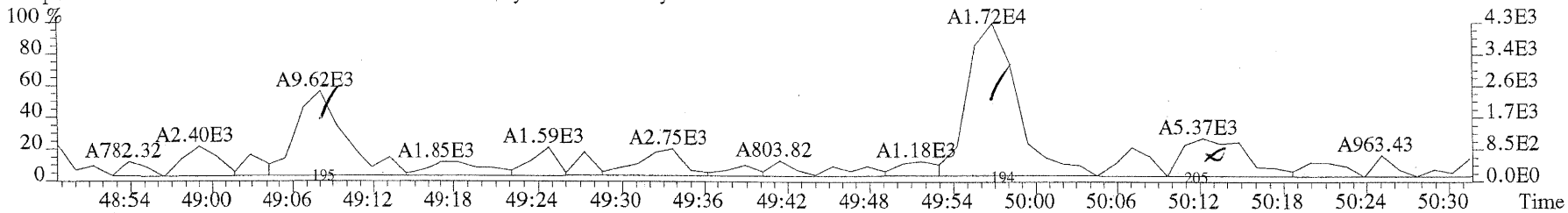
File:23JUL18Z #1-404 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



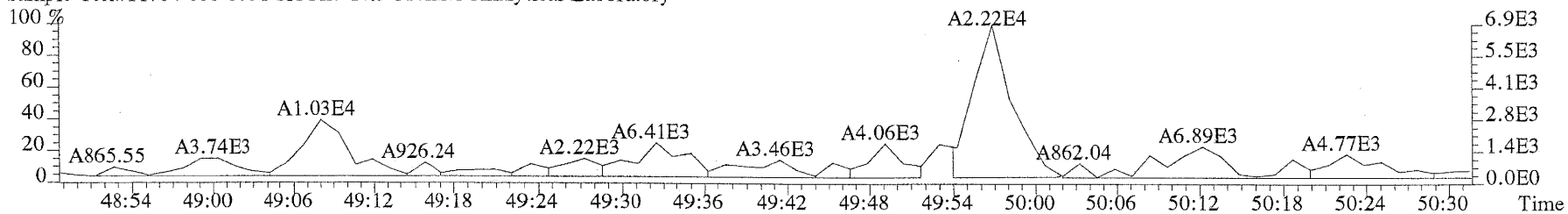
File:23JUL18Z #1-404 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



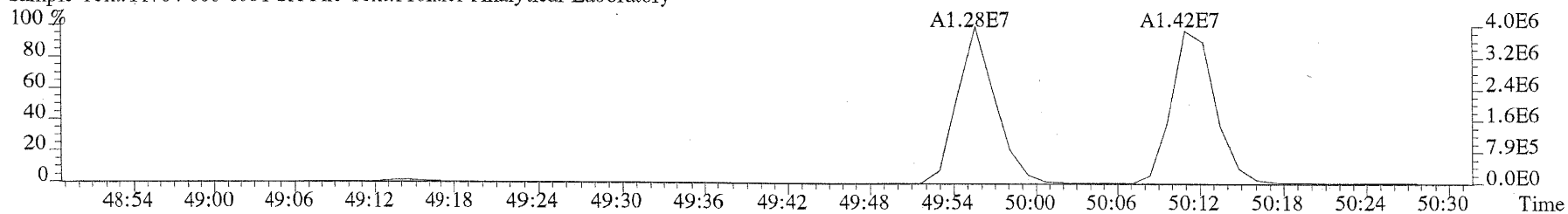
File:23JUL18Z #1-314 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



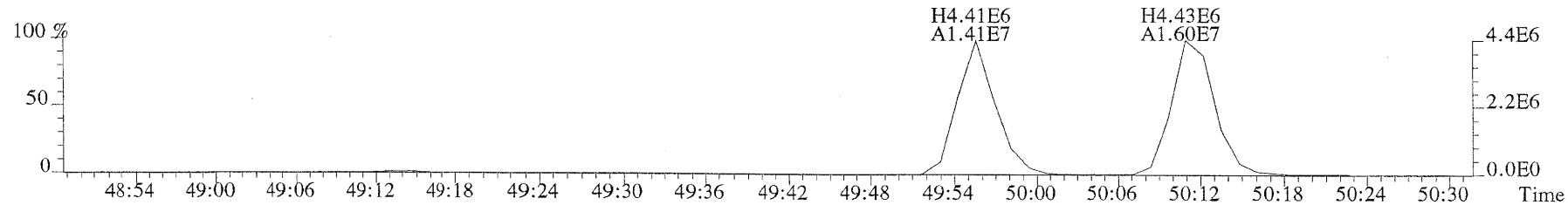
File:23JUL18Z #1-314 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



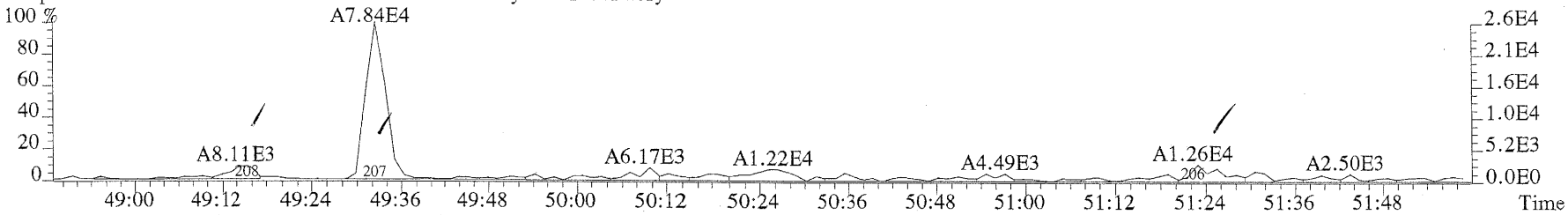
File:23JUL18Z #1-314 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



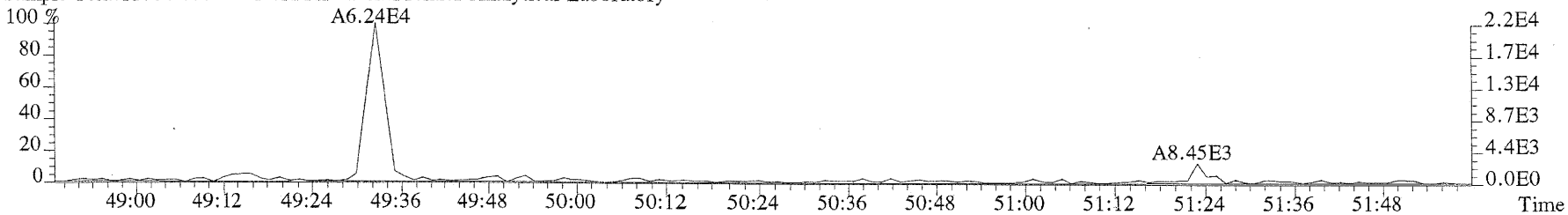
File:23JUL18Z #1-314 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



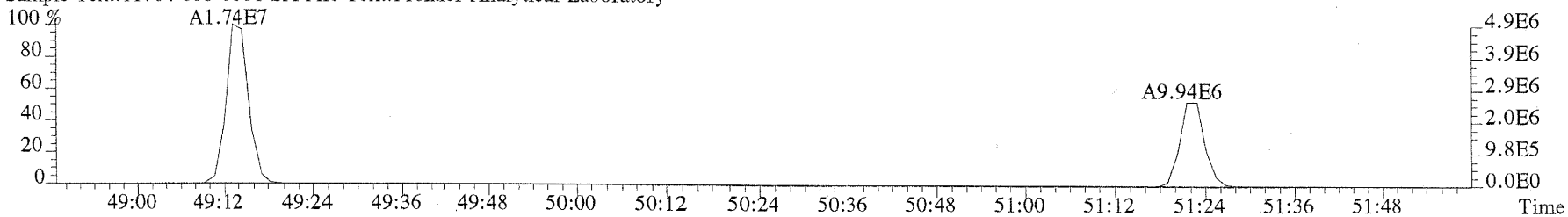
File:23JUL18Z #1-314 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



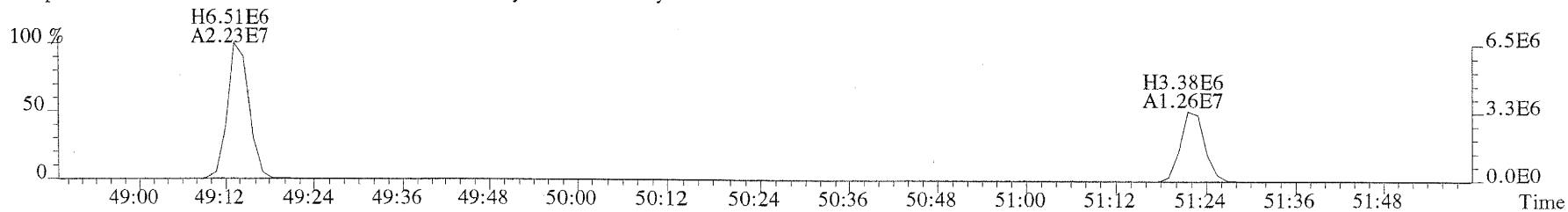
File:23JUL18Z #1-314 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



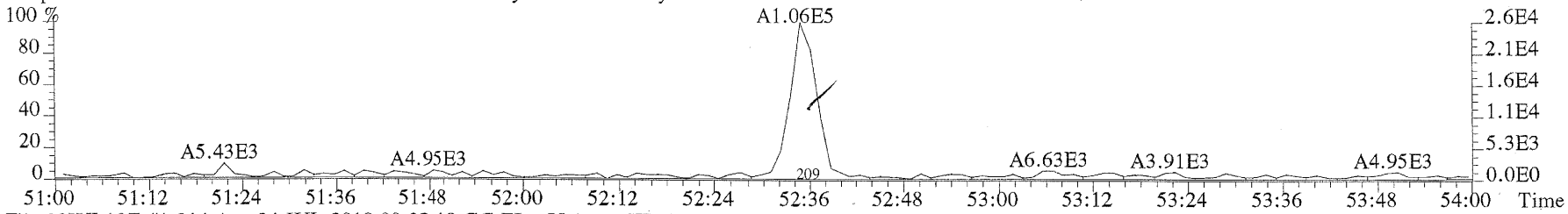
File:23JUL18Z #1-314 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



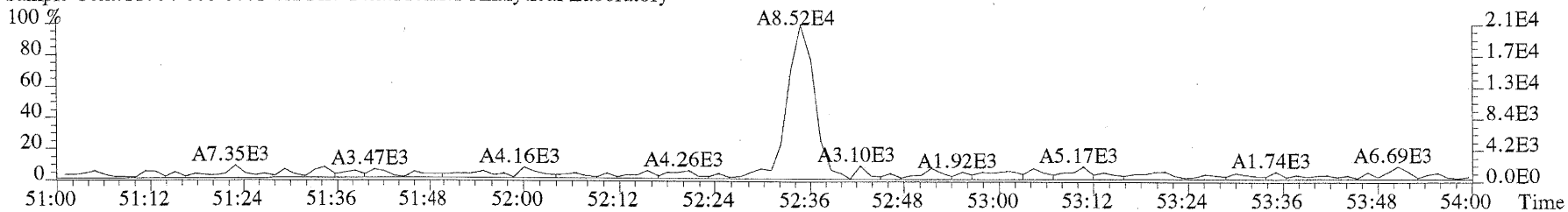
File:23JUL18Z #1-314 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



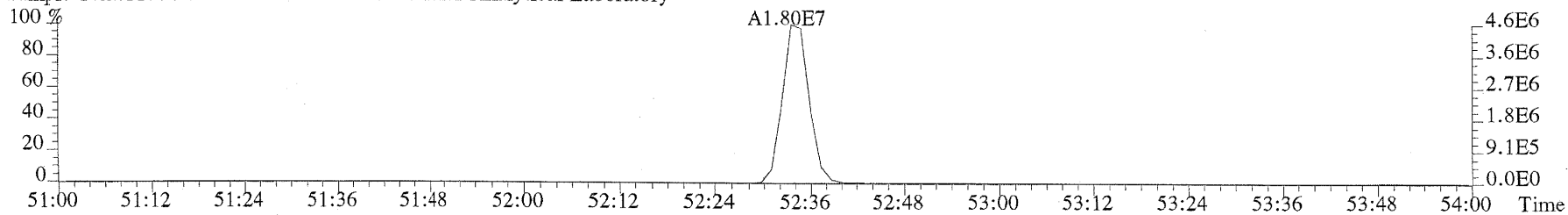
File:23JUL18Z #1-314 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



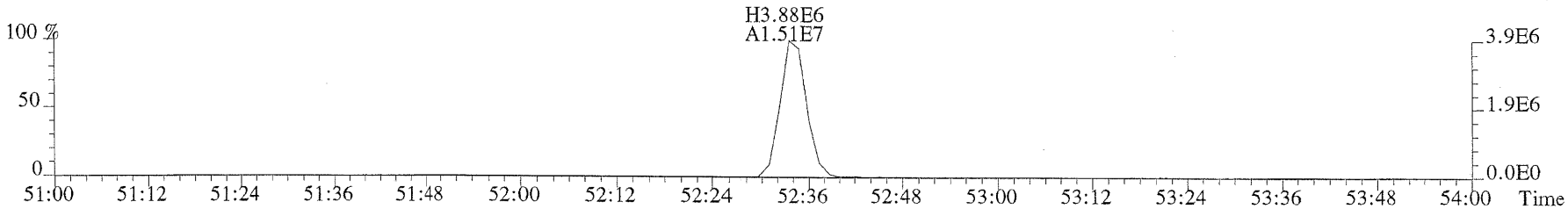
File:23JUL18Z #1-314 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



File:23JUL18Z #1-314 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



File:23JUL18Z #1-314 Acq:24-JUL-2018 00:32:18 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-008-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11704-009-0001-SA Filename: 23JUL18Z Sam:12 Acquired: 24-JUL-18 01:31:05 ICal: DAILY209FAL4-7-23-18
Client ID: LDW-Y1-IN-ENR+AC-CB-S010 ConCal: ST072318Z1 EndCal: ST072318Z2
Results: 11704-8 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	*	n	NotFnd	0.96	*		1720	1240	2.86			
13C-PCB-1	7.89e+07	3.11	y	14:35	1.11	9340					93.4	2.06e+07	6.54e+06
PCB-2	*	*	n	NotFnd	0.90	*		1720	1240	3.25			
PCB-3	*	*	n	NotFnd	0.94	*		1720	1240	3.30			
13C-PCB-3	8.07e+07	3.09	y	17:02	1.14	9300					93.0	1.81e+07	5.80e+06
PCB-4	*	*	n	NotFnd	1.19	*		1220	2280	5.75			
PCB-10	*	*	n	NotFnd	0.98	*		1220	2280	5.89			
13C-PCB-4	4.34e+07	1.54	y	18:16	0.60	9390					93.9	7.85e+06	4.99e+06
PCB-9	*	*	n	NotFnd	1.15	*		1220	2280	4.98			
PCB-7	*	*	n	NotFnd	1.18	*		1220	2280	4.87			
PCB-6	1.62e+05	1.46	y	20:36	1.14	24.5		-	-	*			
PCB-8	1.51e+05	1.51	y	20:58	1.03	25.4		-	-	*			
PCB-5	*	*	n	NotFnd	1.29	*		1220	2280	4.47			
PCB-14	6.30e+05	1.53	y	22:02	1.14	95.8		-	-	*			
PCB-11	1.67e+05	1.48	y	23:10	1.09	26.6		-	-	*			
PCB-13	*	*	n	NotFnd	1.15	*		1220	2280	5.01			
PCB-12	*	*	n	NotFnd	1.17	*		1220	2280	4.90			
PCB-15	*	*	n	NotFnd	1.04	*		1220	2280	4.91			
13C-PCB-15	7.21e+07	1.56	y	23:49	1.01	9340					93.4	1.06e+07	6.63e+06
PCB-19	8.90e+04	1.13	y	22:11	1.04	18.0	J	-	-	*			
PCB-30	*	*	n	NotFnd	1.46	*		1130	728	2.49			
PCB-18	5.20e+05	1.05	y	23:44	1.05	105		-	-	*			
PCB-17	2.20e+05	1.04	y	23:54	1.14	40.6		-	-	*			
PCB-27	6.14e+04	1.08	y	24:25	1.46	8.87	J	-	-	*			
PCB-24	4.75e+04	0.94	y	24:26	1.51	6.61	J	-	-	*			
PCB-16	1.72e+05	1.17	y	24:55	1.21	30.0		-	-	*			
PCB-32	9.92e+04	1.10	y	24:57	1.32	15.8	J	-	-	*			
13C-PCB-19	4.75e+07	1.08	y	22:09	0.62	10000					100	6.59e+06	6.15e+06
13C-PCB-9	7.64e+07	1.59	y	19:57	-	48.1							
PCB-34	*	*	n	NotFnd	0.84	*		1410	780	6.60			
PCB-23	*	*	n	NotFnd	1.01	*		1410	780	5.50			
PCB-29	*	*	n	NotFnd	0.95	*		1410	780	5.83			
PCB-26	2.66e+05	0.94	y	26:13	0.89	57.6		-	-	*			
PCB-25	1.26e+05	1.15	y	26:23	0.89	27.3		-	-	*			
PCB-31	4.55e+05	0.98	y	26:42	0.93	93.8		-	-	*			
PCB-28	4.41e+05	1.12	y	26:48	1.10	76.8		-	-	*			
PCB-20	1.86e+05	1.16	y	27:25	0.96	37.1		-	-	*		Co-elute PCB 21/33	
PCB-21	1.86e+05	1.16	y	27:25	0.96	37.1		-	-	*		Co-elute PCB 20/33	
PCB-33	1.86e+05	1.16	y	27:25	0.96	37.1		-	-	*		Co-elute PCB 20/21	
PCB-22	1.09e+05	1.13	y	27:49	1.00	20.9		-	-	*			
PCB-36	2.52e+06	1.00	y	28:24	0.93	517		-	-	*			
PCB-39	*	*	n	NotFnd	0.97	*		1410	780	5.71			
PCB-38	*	*	n	NotFnd	0.97	*		1410	780	5.68			
PCB-35	*	*	n	NotFnd	0.92	*		1410	780	6.01			
PCB-37	6.19e+04	1.03	y	30:31	1.07	11.0	J	-	-	*			
13C-PCB-37	5.22e+07	1.00	y	30:30	1.24	8780					87.8	5.12e+06	4.78e+06

PCB-54	*	*	n	NotFnd	1.03	*		524	628	1.93			
PCB-50	2.36e+04	0.72	y	26:50	0.76	5.57	J	-	-	*			
PCB-53	1.56e+05	0.78	y	27:26	0.76	36.4		-	-	*			
PCB-51	5.64e+04	0.88	y	27:45	0.82	12.3	J	-	-	*			
PCB-45	8.04e+04	0.74	y	28:09	0.69	20.7		-	-	*			
PCB-46	4.31e+04	0.67	y	28:38	0.65	11.8	J	-	-	*			
PCB-52	1.53e+06	0.75	y	29:05	1.05	261		-	-	*	Co-elute PCB 69		
PCB-69	1.53e+06	0.75	y	29:05	1.05	261		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	0.91	*		524	628	2.18			
PCB-43	8.04e+05	0.77	y	29:23	0.79	182		-	-	*	Co-elute PCB 49		
PCB-49	8.04e+05	0.77	y	29:23	0.79	182		-	-	*	Co-elute PCB 43		
PCB-47	2.64e+05	0.81	y	29:34	0.97	48.5		-	-	*			
PCB-48	1.17e+05	0.84	y	29:39	0.99	21.0		-	-	*	Co-elute PCB 75		
PCB-75	1.17e+05	0.84	y	29:39	0.99	21.0		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	0.95	*		524	628	2.07			
PCB-62	*	*	n	NotFnd	1.10	*		524	628	1.80			
PCB-44	5.19e+05	0.80	y	30:18	0.76	122		-	-	*			
PCB-42	2.05e+05	0.76	y	30:32	1.00	36.4		-	-	*	Co-elute PCB 59		
PCB-59	2.05e+05	0.76	y	30:32	1.00	36.4		-	-	*	Co-elute PCB 42		
PCB-72	5.50e+05	0.76	y	31:05	1.05	93.3		-	-	*	Co-elute PCB 41/71/64		
PCB-41	5.50e+05	0.76	y	31:05	1.05	93.3		-	-	*	Co-elute PCB 72/71/64		
PCB-71	5.50e+05	0.76	y	31:05	1.05	93.3		-	-	*	Co-elute PCB 72/41/64		
PCB-64	5.50e+05	0.76	y	31:05	1.05	93.3		-	-	*	Co-elute PCB 72/41/71		
PCB-68	5.91e+04	0.72	y	31:20	1.15	9.20	J	-	-	*			
PCB-40	6.24e+04	0.68	y	31:30	0.67	16.7	J	-	-	*			
PCB-57	*	*	n	NotFnd	1.09	*		524	628	1.82			
PCB-67	3.29e+04	0.80	y	32:11	1.19	4.93	J	-	-	*			
PCB-58	*	*	n	NotFnd	1.04	*		524	628	1.90			
PCB-63	3.17e+04	0.81	y	32:26	1.12	5.07	J	-	-	*			
PCB-74	2.53e+05	0.71	y	32:42	1.23	36.6		-	-	*			
PCB-61	6.34e+05	0.74	y	32:55	1.23	92.2		-	-	*	Co-elute PCB 70		
PCB-70	6.34e+05	0.74	y	32:55	1.23	92.2		-	-	*	Co-elute PCB 61		
PCB-76	5.81e+05	0.84	y	33:06	1.22	85.5		-	-	*	Co-elute PCB 66		
PCB-66	5.81e+05	0.84	y	33:06	1.22	85.5		-	-	*	Co-elute PCB 76		
PCB-80	3.25e+04	0.76	y	33:20	1.32	4.39	J	-	-	*			
PCB-55	2.78e+05	0.79	y	33:38	1.25	39.9		-	-	*			
13C-PCB-54	5.60e+07	0.77	y	25:41	1.09	10700					107	6.33e+06	8.25e+06
PCB-104	9.89e+06	1.52	y	30:09	1.14	1820		-	-	*			
PCB-96	2.41e+04	1.42	y	31:23	1.04	4.86	J	-	-	*			
PCB-103	3.16e+04	1.53	y	31:52	0.90	7.41	J	-	-	*			
PCB-100	4.48e+04	1.38	y	32:13	0.92	10.2	J	-	-	*			
PCB-94	1.39e+04	1.48	y	32:39	0.79	3.70	J	-	-	*			
PCB-98	*	*	n	NotFnd	1.00	*		264	352	1.36	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.00	*		264	352	1.36	Co-elute PCB 98		
PCB-95	1.89e+06	1.61	y	33:10	0.84	474		-	-	*			
PCB-93	*	*	n	NotFnd	0.77	*		264	352	1.77			
PCB-88	*	*	n	NotFnd	0.89	*		264	352	1.52	Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	0.89	*		264	352	1.52	Co-elute PCB 88		
PCB-121	1.84e+07	1.57	y	33:38	1.11	3510		-	-	*			
13C-PCB-104	4.75e+07	1.64	y	30:08	0.88	11300					113	7.07e+06	4.30e+06
13C-PCB-28	6.02e+07	1.00	y	26:47	1.39	9070					90.7	6.92e+06	6.65e+06
13C-PCB-52	4.79e+07	0.77	y	29:04	-	41.4							

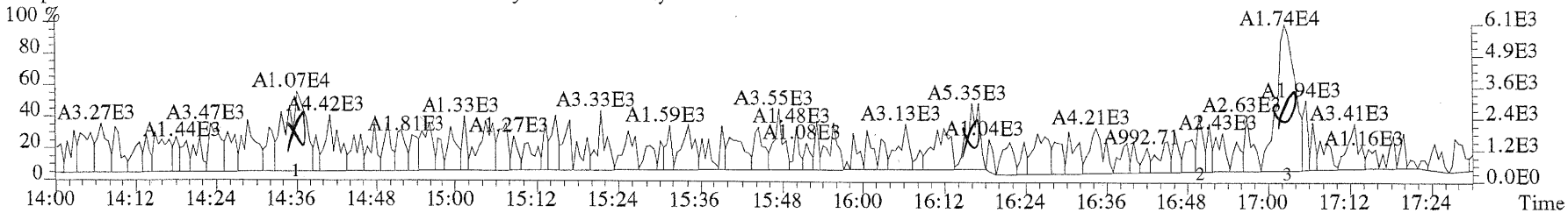
PCB-56	2.34e+05	0.82	y	34:05	0.96	46.0		-	-	*		Co-elute PCB 60
PCB-60	2.34e+05	0.82	y	34:05	0.96	46.0		-	-	*		Co-elute PCB 56
PCB-79	2.94e+04	0.77	y	35:06	1.01	5.52	J	-	-	*		
PCB-78	1.10e+07	0.79	y	35:47	0.98	2140		-	-	*		
PCB-81	9.36e+04	0.87	y	36:17	1.04	17.5	J	-	-	*		
13C-PCB-81	5.15e+07	0.79	y	36:16	1.14	8780					87.8	4.08e+06 5.27e+06
PCB-77	6.16e+04	0.84	y	36:51	0.98	11.7	J	-	-	*		
13C-PCB-77	5.38e+07	0.79	y	36:50	1.16	8960					89.6	4.41e+06 5.48e+06
PCB-155	2.10e+07	1.31	y	34:19	1.13	3980		-	-	*		
PCB-150	*	*	n	NotFnd	1.10	*		392	428	1.86		
PCB-152	*	*	n	NotFnd	1.05	*		392	428	1.95		
PCB-145	*	*	n	NotFnd	1.08	*		392	428	1.90		
PCB-136	3.31e+05	1.27	y	36:42	1.01	70.7		-	-	*		
PCB-148	*	*	n	NotFnd	0.87	*		392	428	2.36		
PCB-154	8.21e+04	1.21	y	37:16	0.98	18.0	J	-	-	*		
13C-PCB-155	4.66e+07	1.30	y	34:18	0.90	9980					99.8	5.68e+06 4.34e+06
13C-PCB-111	5.73e+07	1.59	y	36:25	1.21	9150					91.5	7.23e+06 4.61e+06
13C-PCB-101	5.17e+07	1.61	y	34:46	-	44.1						
PCB-84	1.09e+06	1.50	y	34:24	0.76	307		-	-	*		Co-elute PCB 92
PCB-92	1.09e+06	1.50	y	34:24	0.76	307		-	-	*		Co-elute PCB 84
PCB-89	2.27e+04	1.40	y	34:35	0.75	6.50	J	-	-	*		
PCB-90	1.99e+06	1.48	y	34:47	0.87	492		-	-	*		Co-elute PCB 101
PCB-101	1.99e+06	1.48	y	34:47	0.87	492		-	-	*		Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.92	*		687	456	3.44		
PCB-99	9.58e+05	1.56	y	35:06	1.04	198		-	-	*		
PCB-119	7.95e+04	1.38	y	35:31	1.11	15.3	J	-	-	*		
PCB-83	1.13e+05	1.72	y	35:42	0.88	27.7		-	-	*		Co-elute PCB 112
PCB-112	1.13e+05	1.72	y	35:42	0.88	27.7		-	-	*		Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.10	*		687	456	2.88		
PCB-97	4.83e+05	1.52	y	36:01	0.99	104		-	-	*		
PCB-86	*	*	n	NotFnd	0.89	*		687	456	3.57		
PCB-125	7.23e+05	1.62	y	36:17	0.98	158		-	-	*		Co-elute PCB 87/117
PCB-87	7.23e+05	1.62	y	36:17	0.98	158		-	-	*		Co-elute PCB 125/117
PCB-117	7.23e+05	1.62	y	36:17	0.98	158		-	-	*		Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.24	*		687	456	2.56		Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.24	*		687	456	2.56		Co-elute PCB 111
PCB-85	3.12e+05	1.53	y	36:32	0.99	67.7		-	-	*		Co-elute PCB 116
PCB-116	3.12e+05	1.53	y	36:32	0.99	67.7		-	-	*		Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.17	*		687	456	2.71		
PCB-110	2.45e+06	1.59	y	36:54	1.21	437		-	-	*		
PCB-82	1.48e+05	1.35	y	37:30	0.68	47.0		-	-	*		
PCB-124	7.01e+04	1.34	y	38:11	1.01	14.8	J	-	-	*		
PCB-108	8.84e+04	1.41	y	38:19	0.94	20.2		-	-	*		Co-elute PCB 107
PCB-107	8.84e+04	1.41	y	38:19	0.94	20.2		-	-	*		Co-elute PCB 108
PCB-123	1.33e+04	1.46	y	38:29	1.21	2.46	J	-	-	*		
13C-PCB-123	4.46e+07	1.59	y	38:27	0.96	9370					93.7	5.77e+06 3.57e+06
PCB-118	1.04e+06	1.63	y	38:39	0.92	229		-	-	*		Co-elute PCB 106
PCB-106	1.04e+06	1.63	y	38:39	0.92	229		-	-	*		Co-elute PCB 118
13C-PCB-118	4.92e+07	1.58	y	38:37	1.09	9140					91.4	5.74e+06 3.62e+06
PCB-114	3.11e+04	1.49	y	39:17	0.93	7.23	J	-	-	*		
13C-PCB-114	4.63e+07	1.56	y	39:15	1.04	9020					90.2	5.42e+06 3.44e+06
PCB-122	1.98e+04	1.40	y	39:22	1.09	3.92	J	-	-	*		
PCB-105	3.35e+05	1.61	y	40:05	0.99	73.4		-	-	*		
13C-PCB-105	4.60e+07	1.56	y	40:03	1.04	8950					89.5	5.26e+06 3.36e+06

PCB-127	*	*	n	NotFnd	0.94	*		256	368	1.83				
PCB-126	*	*	n	NotFnd	1.01	*		256	368	1.99				
13C-PCB-126	4.49e+07	1.58	y	42:11	1.04	8760					87.6	4.73e+06	3.01e+06	
PCB-151	3.50e+05	1.18	y	37:53	0.73	89.9		-	-	*				
PCB-135	2.24e+05	1.31	y	38:06	0.79	53.3		-	-	*				
PCB-144	3.71e+04	1.22	y	38:19	0.70	10.0		-	-	*				
PCB-147	3.71e+04	1.22	y	38:19	0.79	8.77	J	-	-	*				
PCB-139	1.34e+06	1.25	y	38:34	0.79	317		-	-	*		Co-elute PCB 149		
PCB-149	1.34e+06	1.25	y	38:34	0.79	317		-	-	*		Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	0.79	*		772	584	4.05				
PCB-143	9.77e+04	1.31	y	39:10	0.74	24.9		-	-	*		Co-elute PCB 134		
PCB-134	9.77e+04	1.31	y	39:10	0.74	24.9		-	-	*		Co-elute PCB 143		
PCB-131	3.48e+04	1.32	y	39:27	0.74	8.82	J	-	-	*		Co-elute PCB 133		
PCB-133	3.48e+04	1.32	y	39:27	0.74	8.82	J	-	-	*		Co-elute PCB 131		
PCB-142	2.09e+07	1.23	y	39:35	0.67	5890		-	-	*				
PCB-165	3.14e+05	1.28	y	39:48	0.87	67.9		-	-	*		Co-elute PCB 146		
PCB-146	3.14e+05	1.28	y	39:48	0.87	67.9		-	-	*		Co-elute PCB 165		
PCB-161	5.34e+05	1.32	y	40:05	0.82	122		-	-	*		Co-elute PCB 132		
PCB-132	5.34e+05	1.32	y	40:05	0.82	122		-	-	*		Co-elute PCB 161		
PCB-153	1.70e+06	1.25	y	40:13	0.88	362		-	-	*				
PCB-168	*	*	n	NotFnd	1.00	*		772	584	3.19				
PCB-141	2.24e+05	1.06	y	40:54	0.76	55.4		-	-	*				
PCB-137	7.40e+04	1.18	y	41:15	0.73	19.0	J	-	-	*				
PCB-130	1.06e+05	1.27	y	41:22	0.69	28.8		-	-	*				
PCB-138	1.48e+06	1.27	y	41:42	0.99	281		-	-	*		Co-elute PCB 163/164		
PCB-163	1.48e+06	1.27	y	41:42	0.99	281		-	-	*		Co-elute PCB 138/164		
PCB-164	1.48e+06	1.27	y	41:42	0.99	281		-	-	*		Co-elute PCB 138/163		
PCB-158	1.89e+05	1.21	y	41:57	1.02	34.9		-	-	*		Co-elute PCB 160		
PCB-160	1.89e+05	1.21	y	41:57	1.02	34.9		-	-	*		Co-elute PCB 158		
PCB-129	6.26e+04	1.35	y	42:10	0.65	18.2	J	-	-	*				
PCB-166	*	*	n	NotFnd	0.96	*		772	584	3.32				
PCB-159	4.47e+04	1.15	y	42:57	1.05	8.02	J	-	-	*				
PCB-128	1.98e+05	1.23	y	43:11	0.86	43.5		-	-	*		Co-elute PCB 162		
PCB-162	1.98e+05	1.23	y	43:11	0.86	43.5		-	-	*		Co-elute PCB 128		
PCB-167	6.15e+04	1.25	y	43:35	0.93	12.0	J	-	-	*				
13C-PCB-167	5.50e+07	1.27	y	43:34	1.18	9430					94.3	6.17e+06	4.84e+06	
PCB-156	1.14e+05	1.17	y	44:48	0.99	21.6		-	-	*				
13C-PCB-156	5.28e+07	1.25	y	44:48	1.15	9340					93.4	5.61e+06	4.48e+06	
PCB-157	3.63e+04	1.29	y	45:04	1.02	6.51	J	-	-	*				
13C-PCB-157	5.45e+07	1.24	y	45:03	1.18	9360					93.6	6.22e+06	4.83e+06	
PCB-169	*	*	n	NotFnd	0.99	*		772	584	3.29				
13C-PCB-169	5.09e+07	1.22	y	46:53	1.10	9350					93.5	5.71e+06	4.71e+06	

PCB-188	*	*	n	NotFnd	1.08	*		952	328	2.32			
13C-PCB-188	5.66e+07	1.06	y	39:48	1.11	10300					103	6.54e+06	6.17e+06
PCB-184	2.72e+07	1.05	y	40:14	1.13	4520		-	-	*			
PCB-179	1.98e+05	1.10	y	40:59	1.05	35.3		-	-	*			
PCB-176	6.37e+04	0.96	y	41:25	1.03	11.6	J	-	-	*			
PCB-186	*	*	n	NotFnd	1.08	*		952	328	2.32			
PCB-178	7.79e+04	1.12	y	42:28	0.76	19.1	J	-	-	*			
PCB-175	*	*	n	NotFnd	0.79	*		952	328	3.17			
PCB-187	3.69e+05	1.08	y	42:57	0.89	77.7		-	-	*		Co-elute PCB 182	
PCB-182	3.69e+05	1.08	y	42:57	0.89	77.7		-	-	*		Co-elute PCB 187	
PCB-183	1.78e+05	1.16	y	43:16	0.86	38.9		-	-	*			
PCB-185	3.72e+04	1.18	y	43:53	0.82	8.55	J	-	-	*			
PCB-174	2.36e+05	1.07	y	44:13	0.76	58.2		-	-	*			
PCB-181	*	*	n	NotFnd	0.87	*		952	328	2.87			
PCB-177	1.31e+05	1.14	y	44:30	0.76	32.2		-	-	*			
PCB-171	6.23e+04	0.94	y	44:48	0.76	15.3	J	-	-	*			
PCB-173	*	*	n	NotFnd	0.72	*		952	328	3.45			
PCB-172	5.51e+05	1.04	y	45:31	0.72	143		-	-	*			
PCB-192	1.90e+07	1.05	y	45:45	1.03	3450		-	-	*			
PCB-180	5.11e+05	1.06	y	45:55	0.99	96.7		-	-	*			
PCB-193	5.80e+04	1.02	y	46:05	1.09	9.95	J	-	-	*			
PCB-191	*	*	n	NotFnd	1.02	*		952	328	2.45			
PCB-170	1.38e+05	1.08	y	47:11	0.71	36.5		-	-	*			
PCB-190	4.01e+04	1.15	y	47:21	1.00	7.53	J	-	-	*			
PCB-189	*	*	n	NotFnd	1.04	*		952	328	2.38			
13C-PCB-189	4.99e+07	1.06	y	48:32	1.00	10100					101	6.60e+06	6.31e+06
PCB-202	2.75e+04	0.82	y	44:56	0.95	7.25	J	-	-	*			
PCB-201	*	*	n	NotFnd	0.94	*		240	432	2.10			
PCB-204	3.74e+07	0.94	y	45:31	0.92	10200		-	-	*			
PCB-197	2.17e+05	0.93	y	45:47	1.00	54.6		-	-	*			
PCB-200	*	*	n	NotFnd	0.93	*		240	432	2.11			
PCB-198	*	*	n	NotFnd	0.62	*		240	432	3.15			
PCB-199	6.33e+04	0.98	y	47:47	0.75	21.1		-	-	*			
PCB-203	6.85e+04	0.85	y	48:02	0.75	22.8		-	-	*		Co-elute PCB 196	
PCB-196	6.85e+04	0.85	y	48:02	0.75	22.8		-	-	*		Co-elute PCB 203	
13C-PCB-202	4.00e+07	0.92	y	44:54	0.84	9580					95.8	4.10e+06	4.45e+06
13C-PCB-178	4.07e+07	1.08	y	42:26	0.86	9550					95.5	4.22e+06	4.01e+06
13C-PCB-138	4.94e+07	1.24	y	41:40	-	42.6							
PCB-195	1.86e+04	0.76	y	49:08	0.74	7.53	J	-	-	*			
PCB-194	4.17e+04	0.81	y	49:55	0.77	16.3	J	-	-	*			
PCB-205	*	*	n	NotFnd	1.02	*		340	1060	3.67			
13C-PCB-205	3.34e+07	0.90	y	50:11	1.20	9810					98.1	4.44e+06	4.88e+06
PCB-208	1.27e+04	1.25	y	49:14	0.91	3.73	J	-	-	*			
13C-PCB-208	3.76e+07	0.79	y	49:13	1.23	10800					108	5.35e+06	6.79e+06
PCB-207	1.17e+05	1.36	y	49:32	0.93	41.3		-	-	*			
PCB-206	1.51e+04	1.39	y	51:23	0.96	6.81	J	-	-	*			
13C-PCB-206	2.32e+07	0.80	y	51:21	0.86	9460					94.6	3.11e+06	3.96e+06
PCB-209	1.56e+05	1.08	y	52:33	1.05	46.4		-	-	*			
13C-PCB-209	3.20e+07	1.09	y	52:32	1.02	11000					110	4.07e+06	3.94e+06
13C-PCB-194	2.84e+07	0.90	y	49:55	-	34.0							

Analyst: _____ Date: 8/20/18

File:23JUL18Z #1-783 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



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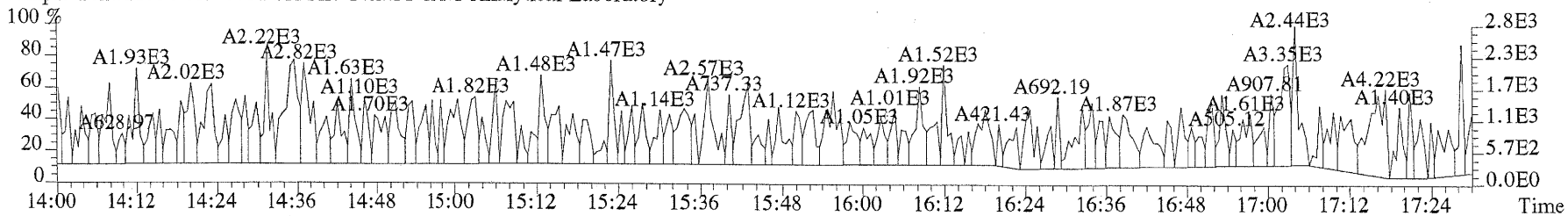

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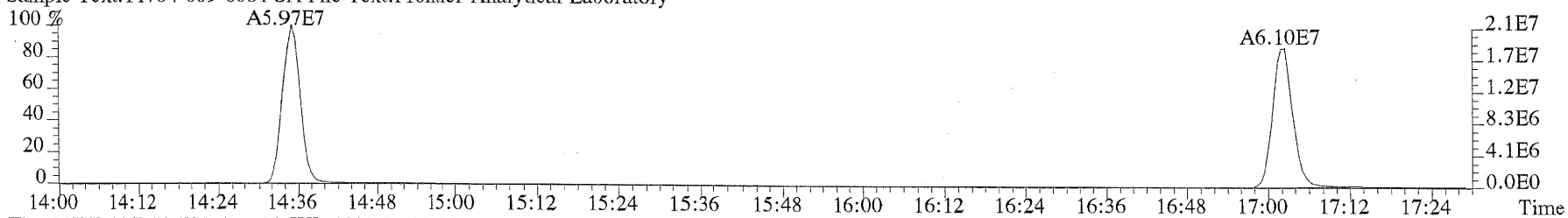

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202.0766 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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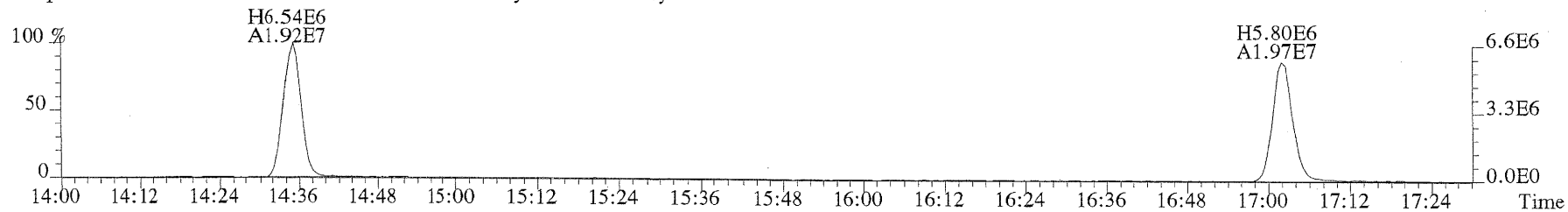

File:23JUL18Z #1-520 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
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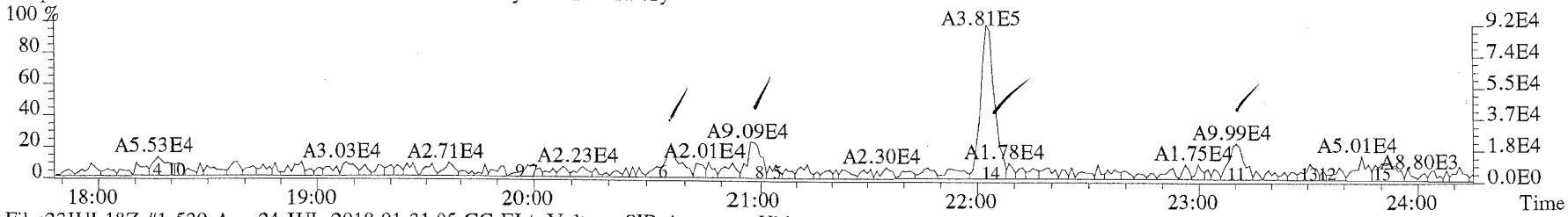

File:23JUL18Z #1-520 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
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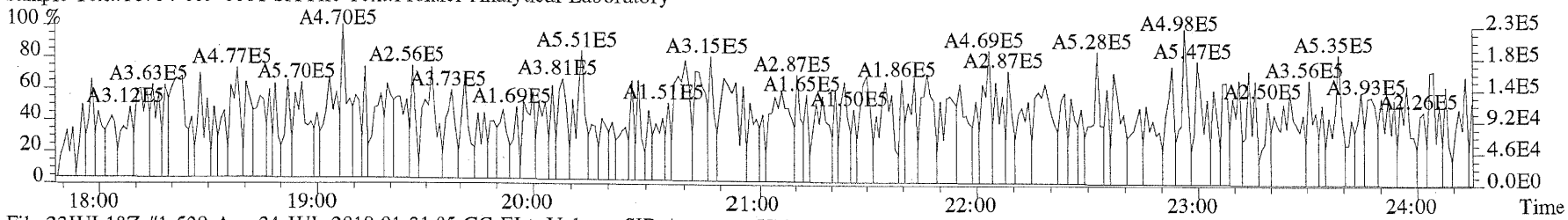
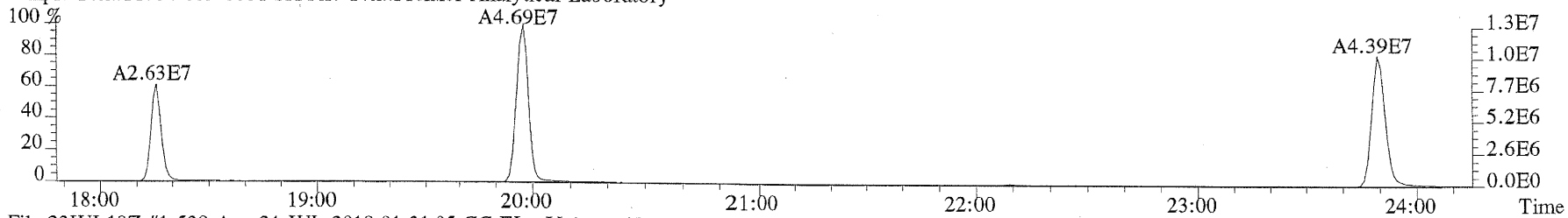
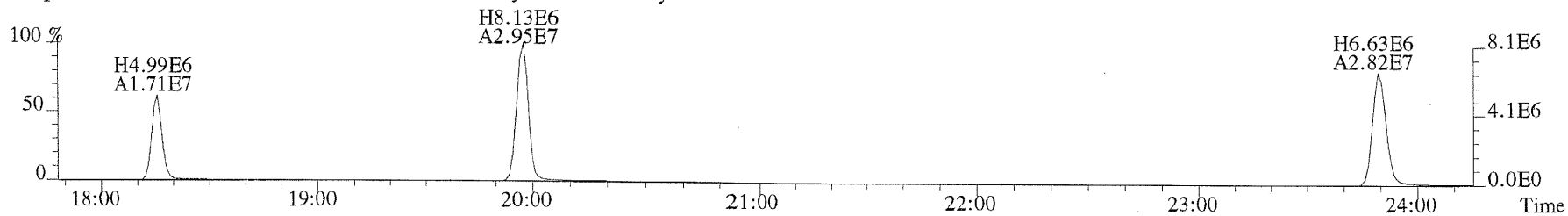


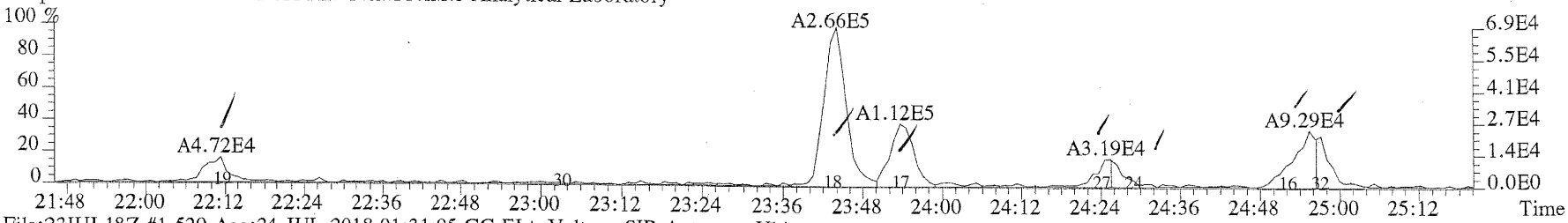
File:23JUL18Z #1-520 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



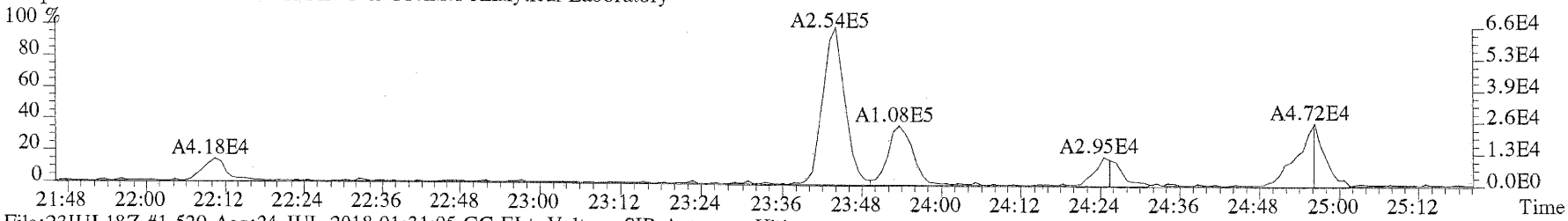
File:23JUL18Z #1-520 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



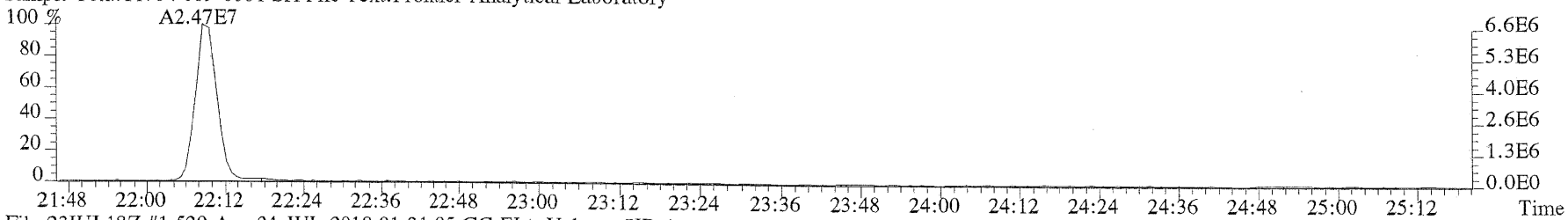
File:23JUL18Z #1-520 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



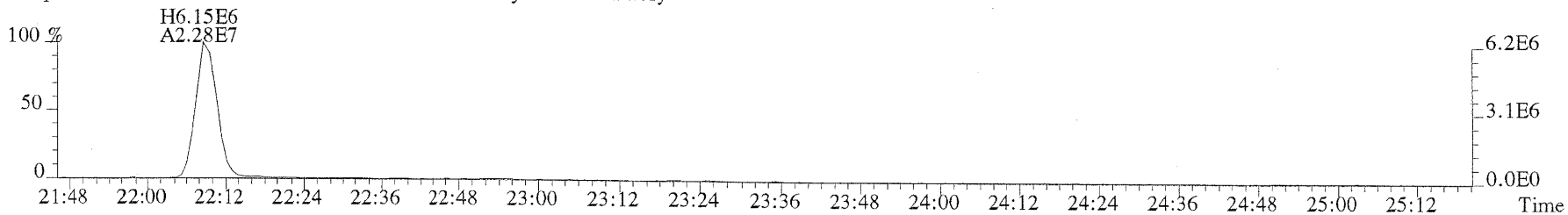
File:23JUL18Z #1-520 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



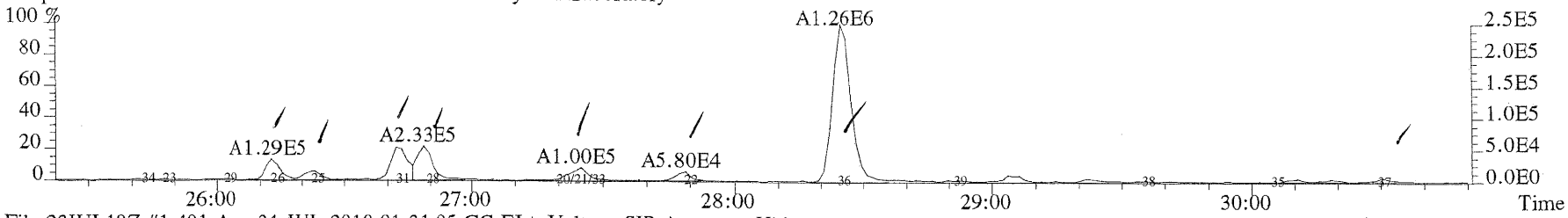
File:23JUL18Z #1-520 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



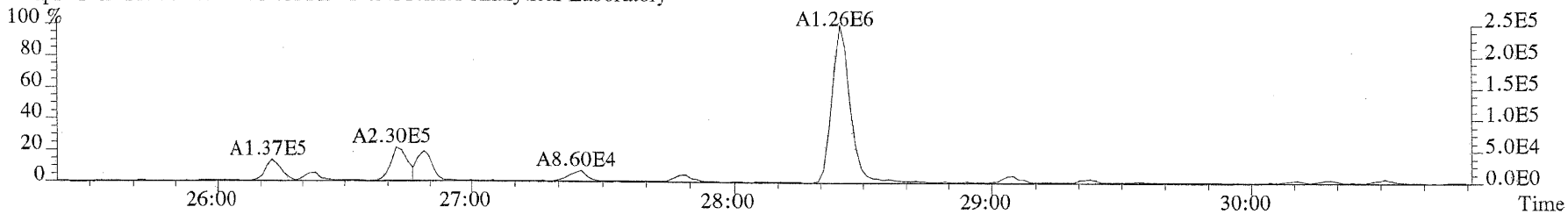
File:23JUL18Z #1-520 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



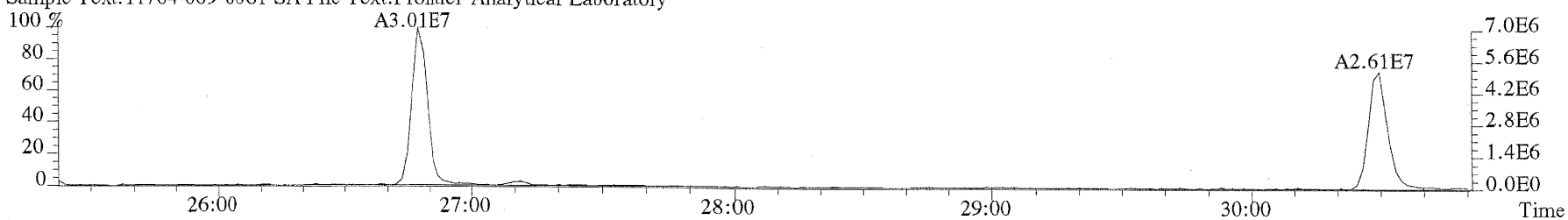
File:23JUL18Z #1-401 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



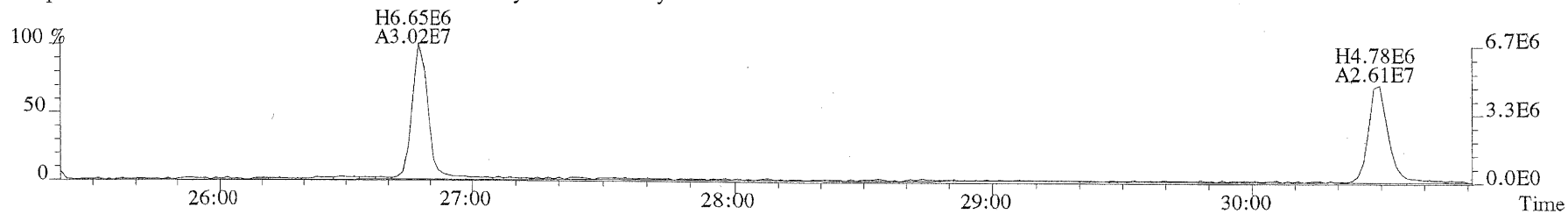
File:23JUL18Z #1-401 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



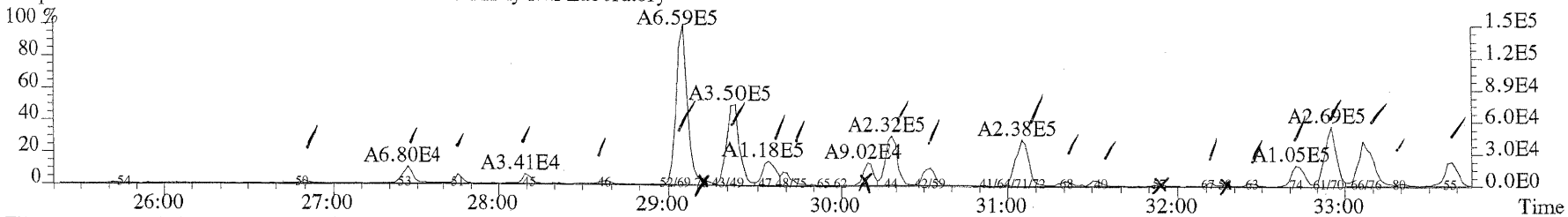
File:23JUL18Z #1-401 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



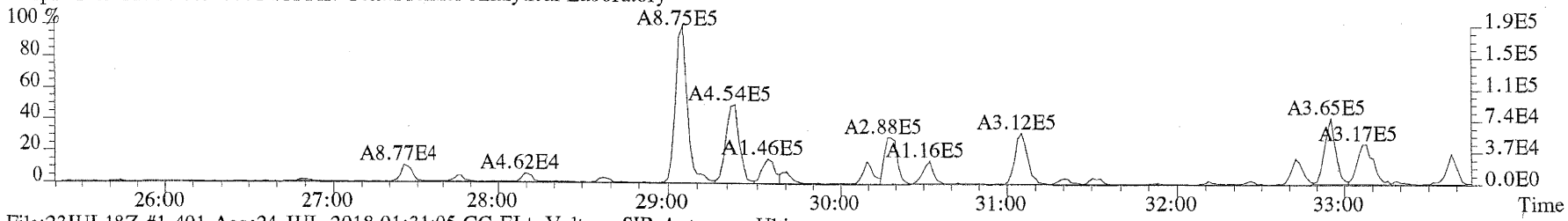
File:23JUL18Z #1-401 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



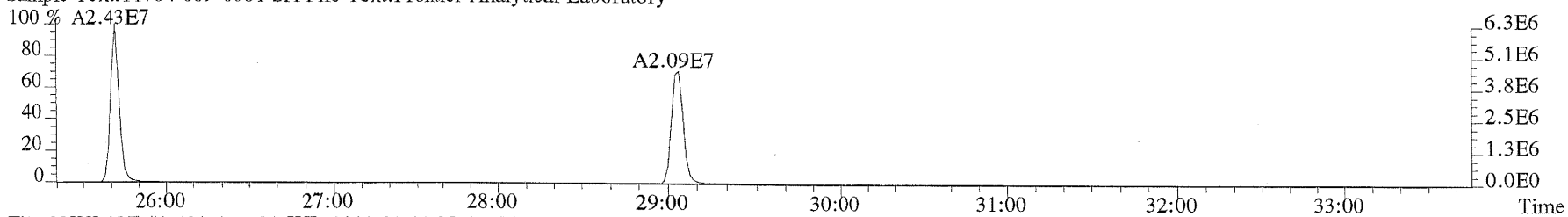
File:23JUL18Z #1-401 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



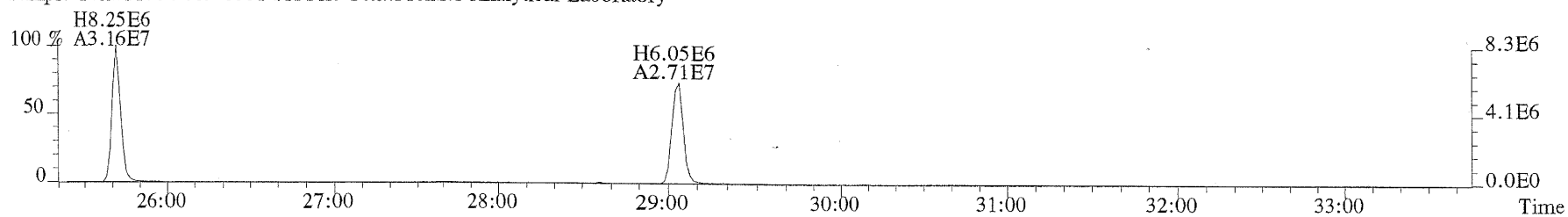
File:23JUL18Z #1-401 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



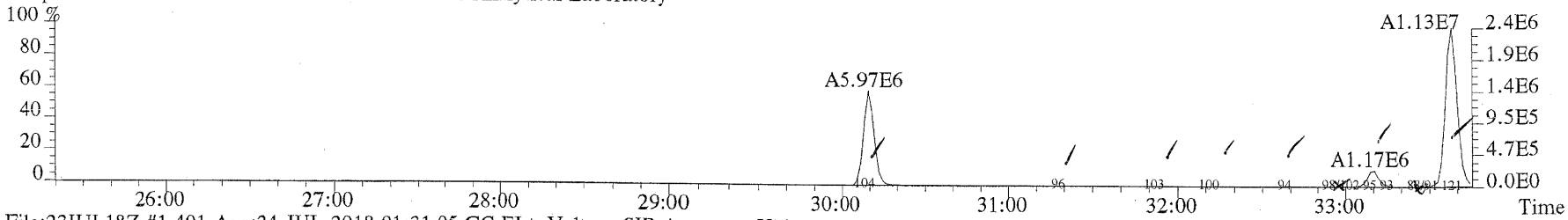
File:23JUL18Z #1-401 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



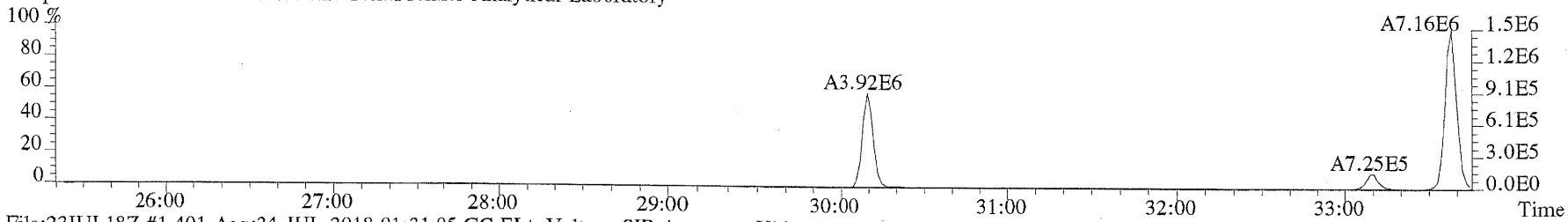
File:23JUL18Z #1-401 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



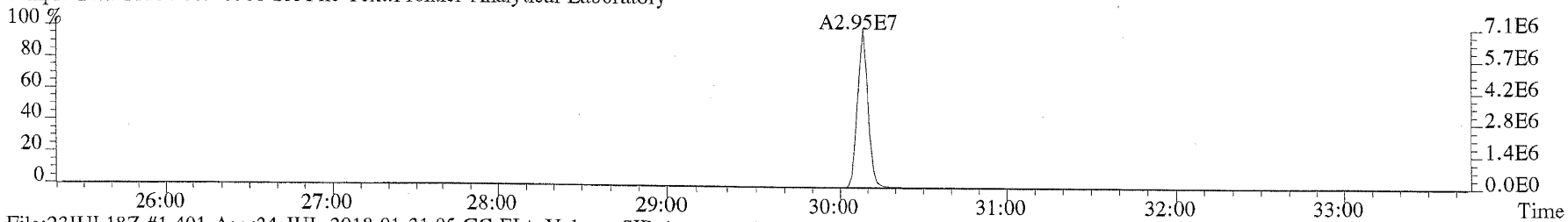
File:23JUL18Z #1-401 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



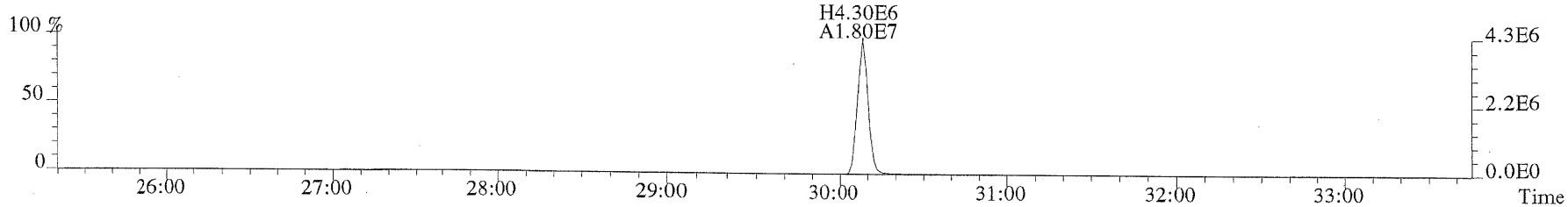
File:23JUL18Z #1-401 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



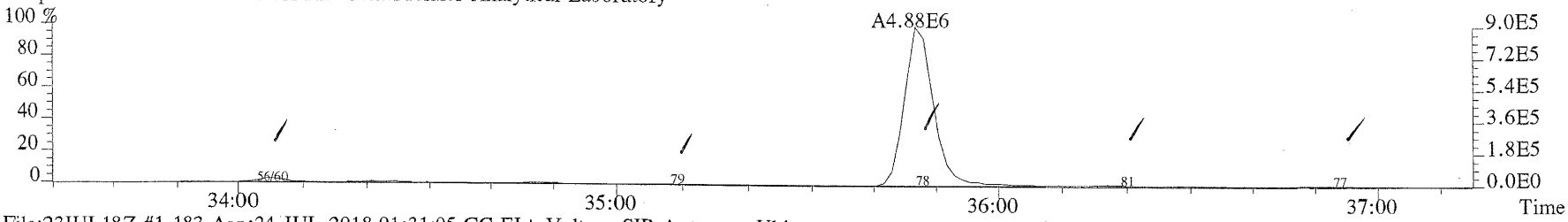
File:23JUL18Z #1-401 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



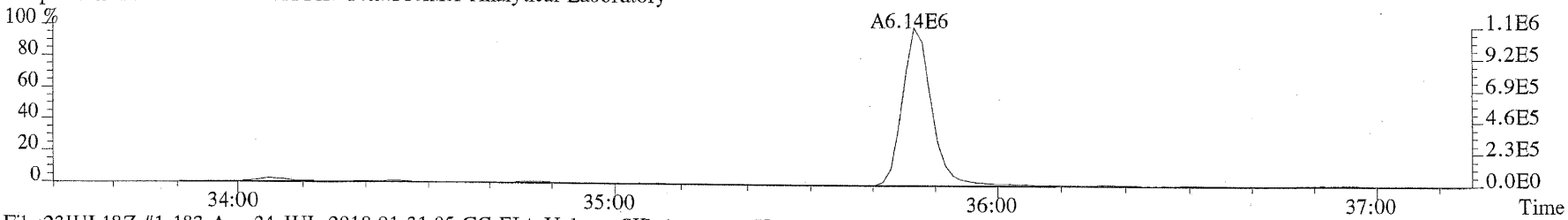
File:23JUL18Z #1-401 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



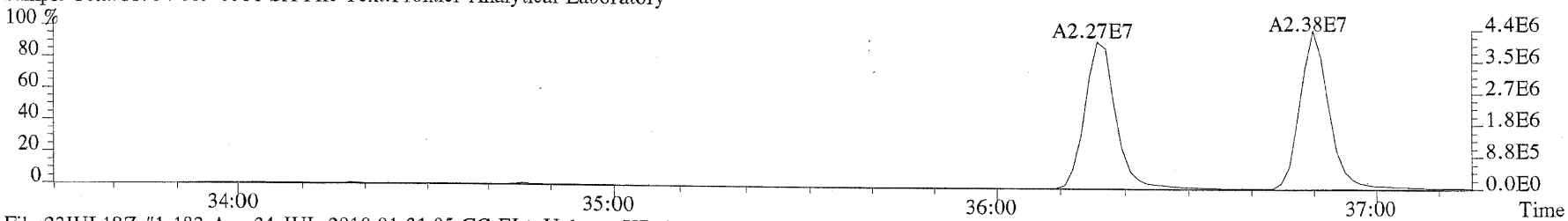
File:23JUL18Z #1-183 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



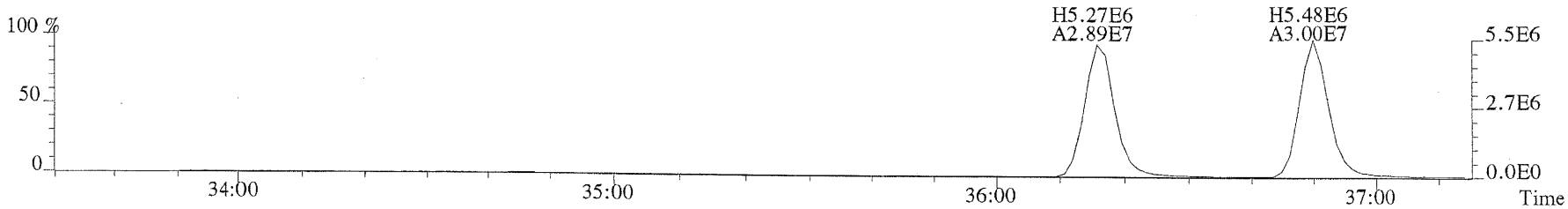
File:23JUL18Z #1-183 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



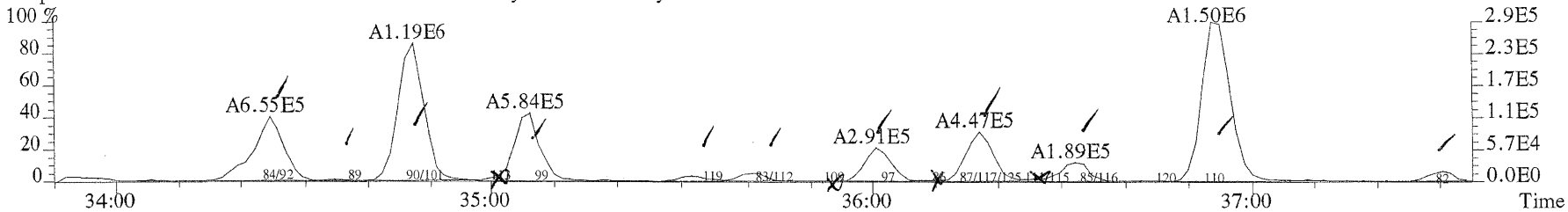
File:23JUL18Z #1-183 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



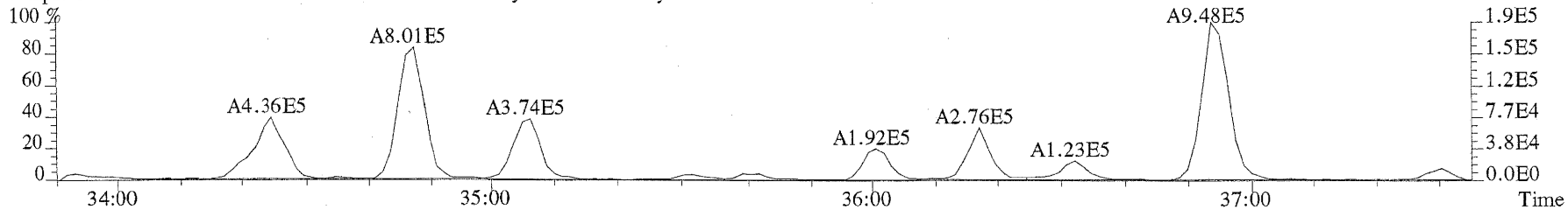
File:23JUL18Z #1-183 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



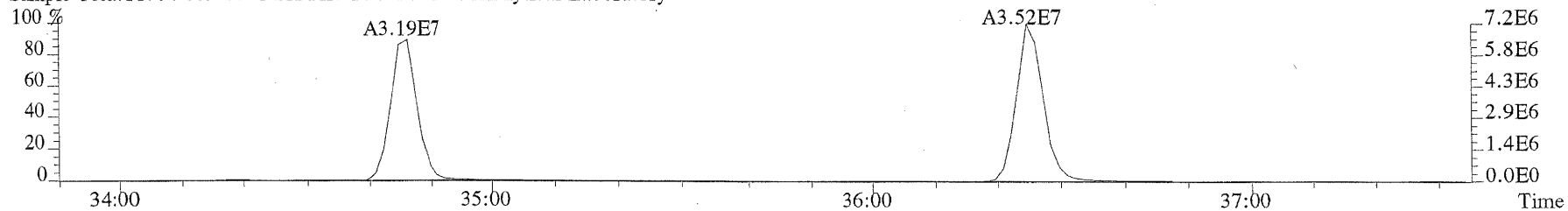
File:23JUL18Z #1-183 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



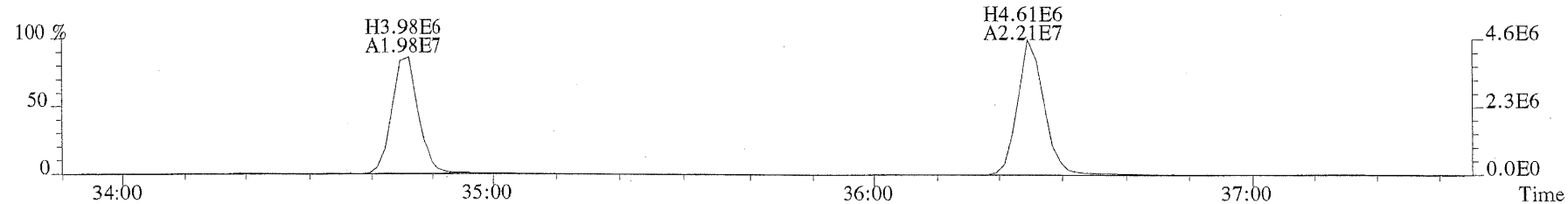
File:23JUL18Z #1-183 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



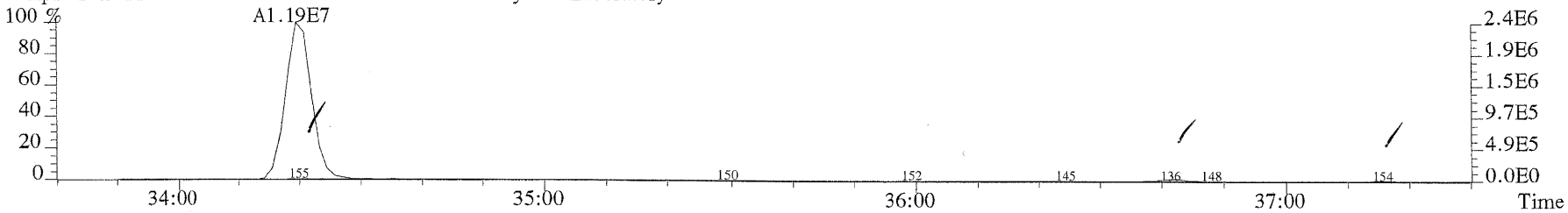
File:23JUL18Z #1-183 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



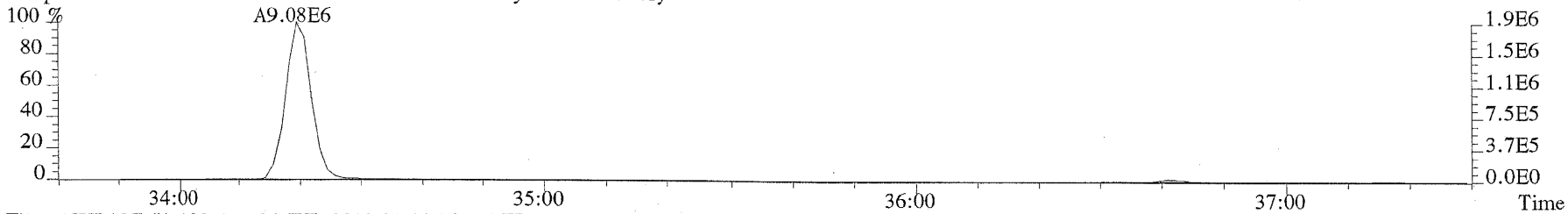
File:23JUL18Z #1-183 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



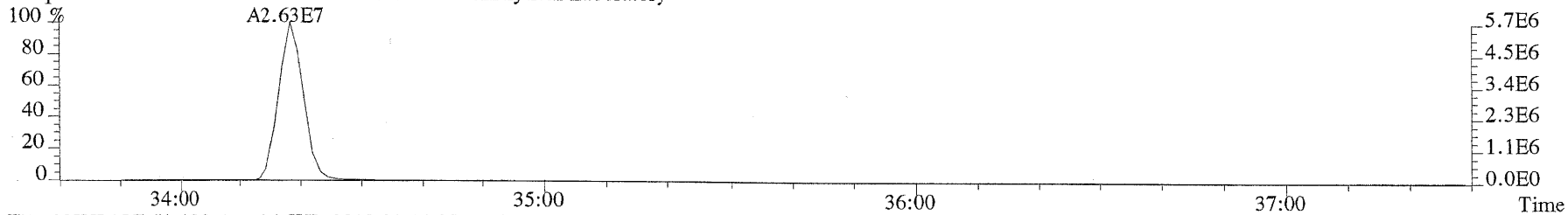
File:23JUL18Z #1-183 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



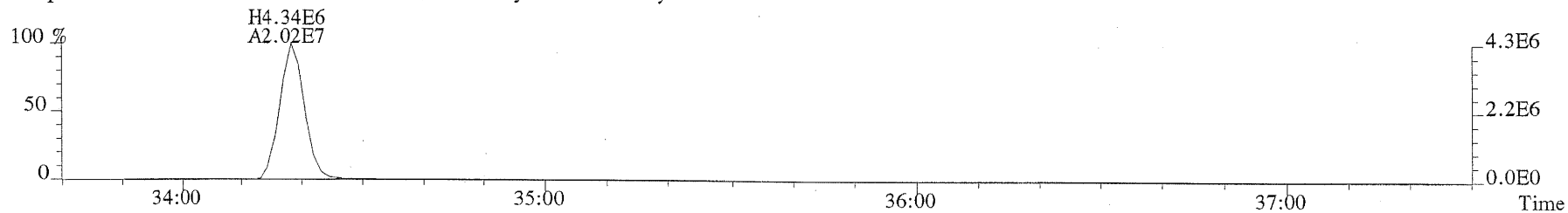
File:23JUL18Z #1-183 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



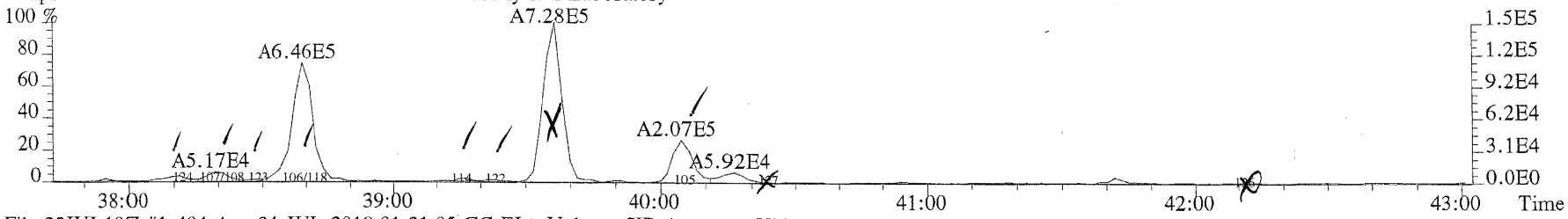
File:23JUL18Z #1-183 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



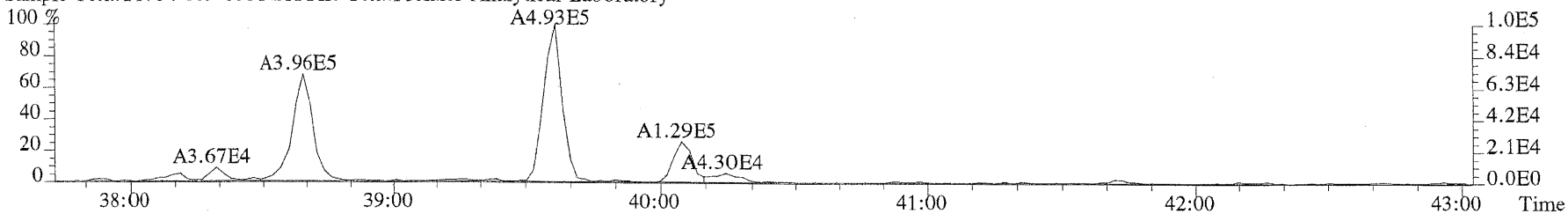
File:23JUL18Z #1-183 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



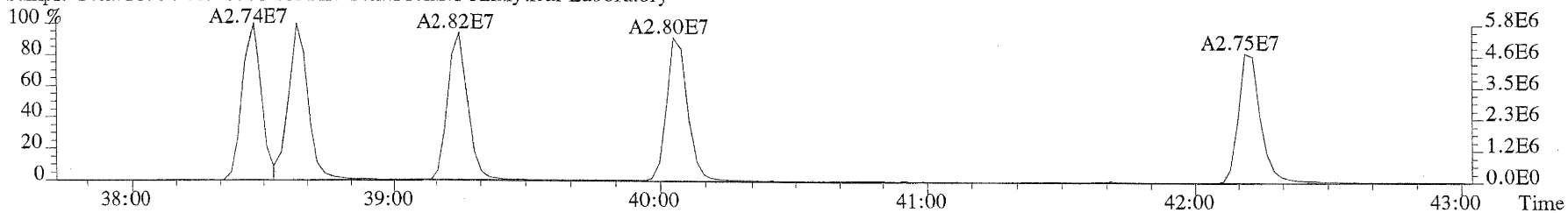
File:23JUL18Z #1-404 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



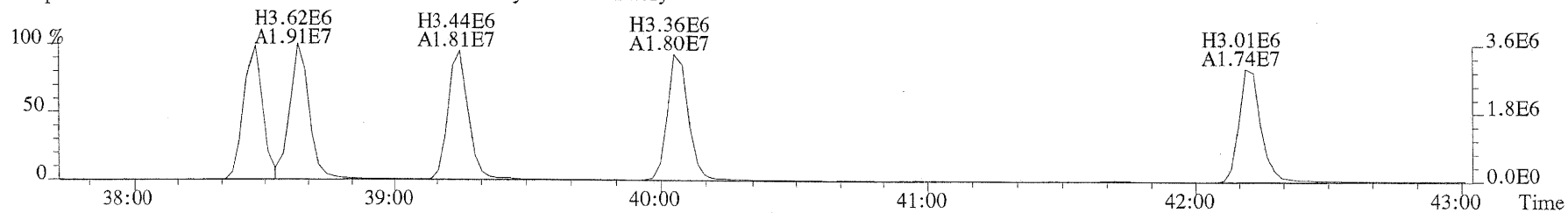
File:23JUL18Z #1-404 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



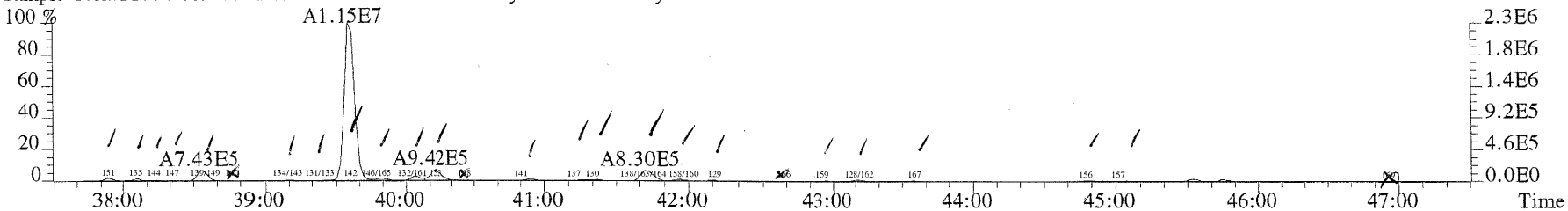
File:23JUL18Z #1-404 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



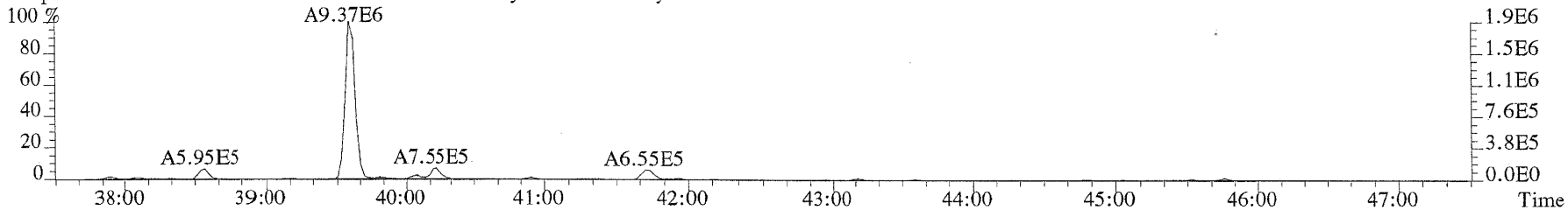
File:23JUL18Z #1-404 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



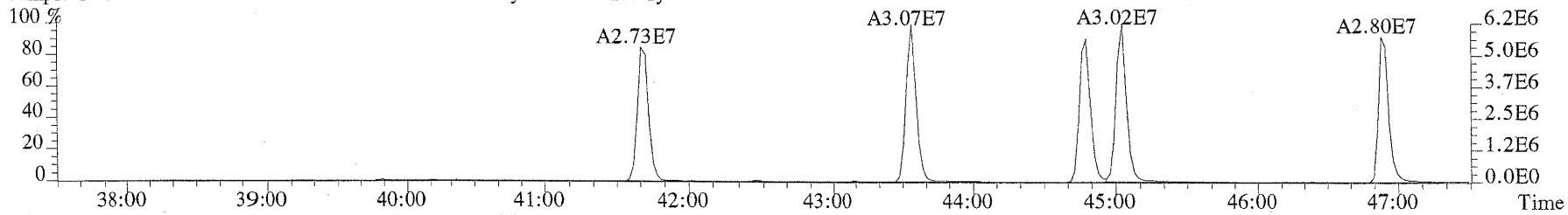
File:23JUL18Z #1-404 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



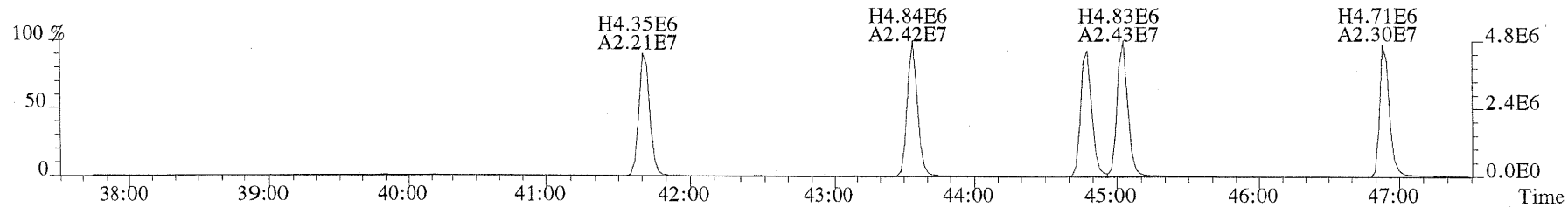
File:23JUL18Z #1-404 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



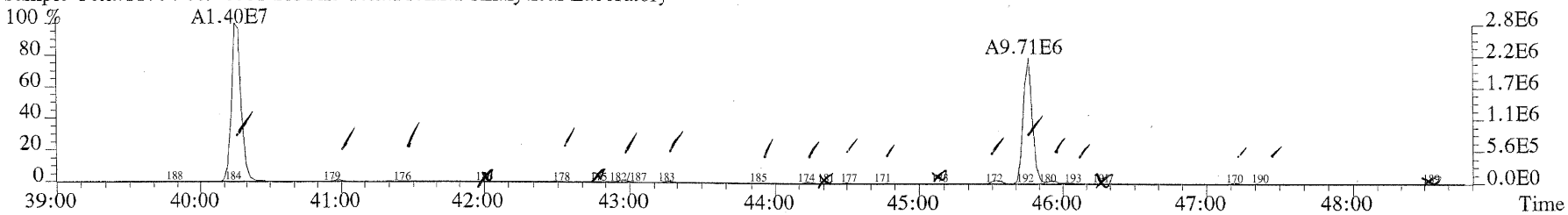
File:23JUL18Z #1-404 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



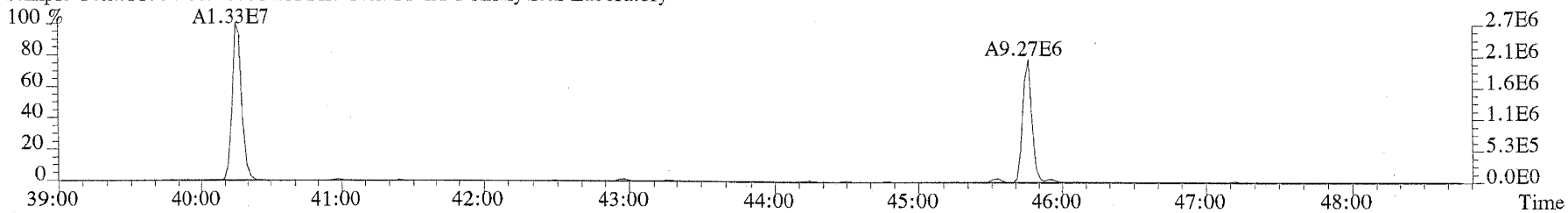
File:23JUL18Z #1-404 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



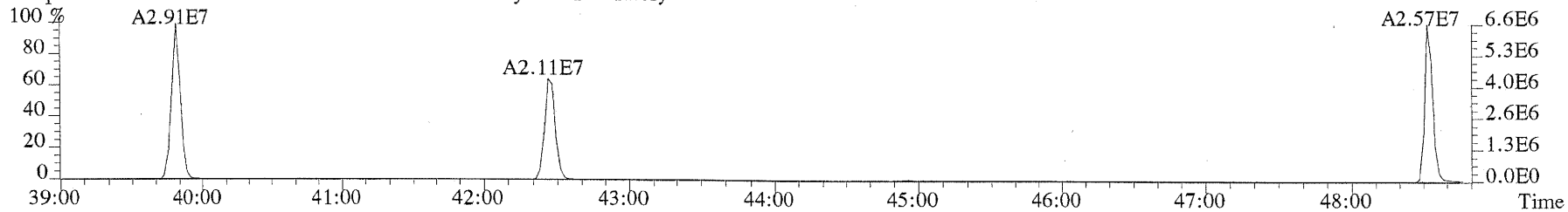
File:23JUL18Z #1-404 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



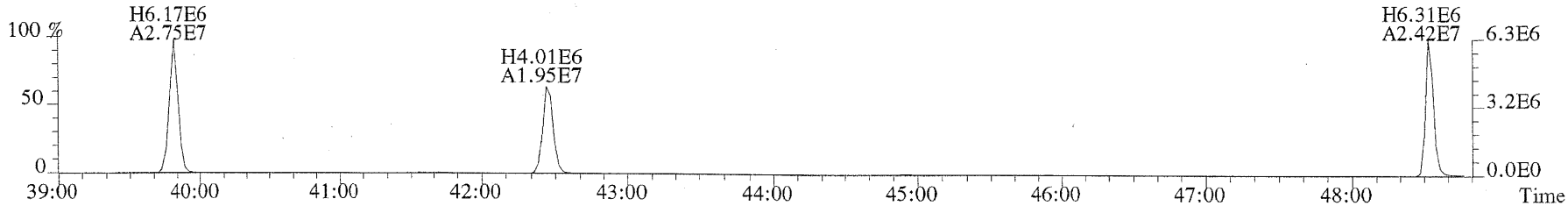
File:23JUL18Z #1-404 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



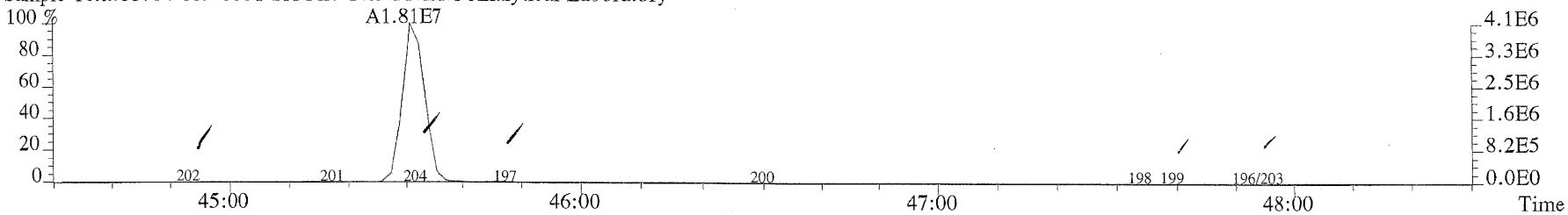
File:23JUL18Z #1-404 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



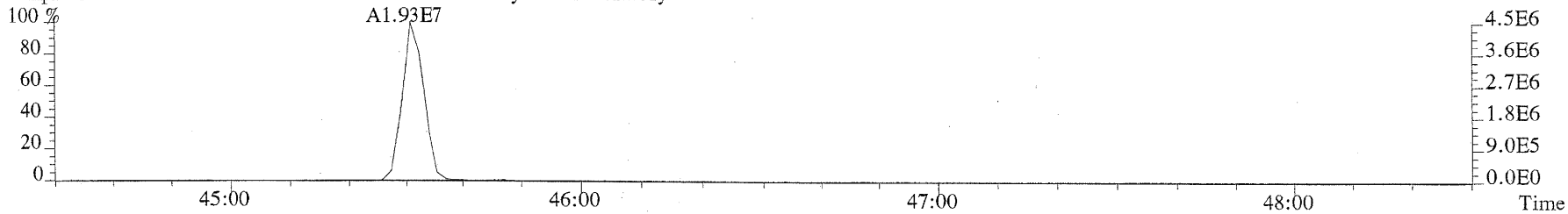
File:23JUL18Z #1-404 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



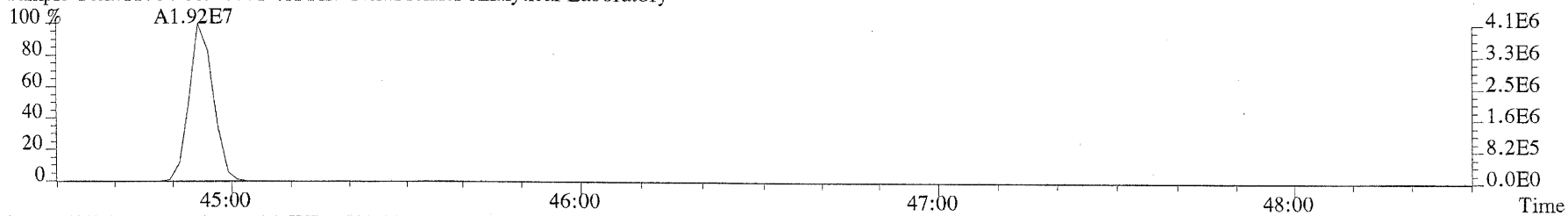
File:23JUL18Z #1-404 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



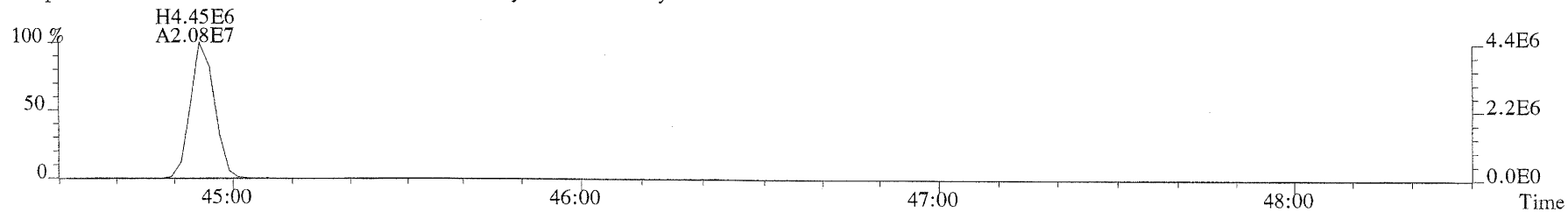
File:23JUL18Z #1-404 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



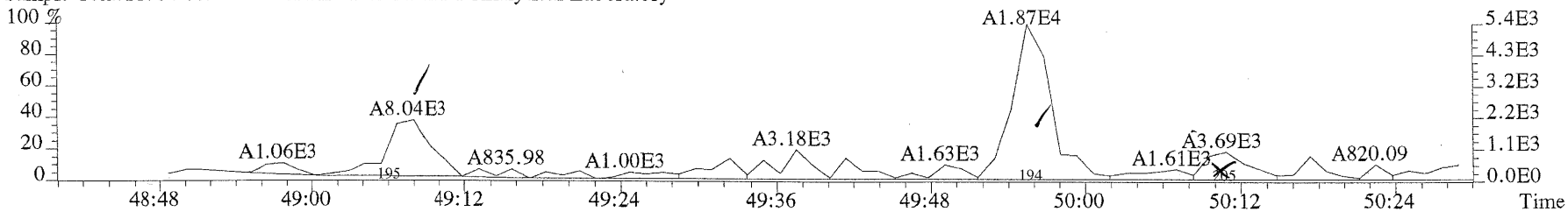
File:23JUL18Z #1-404 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



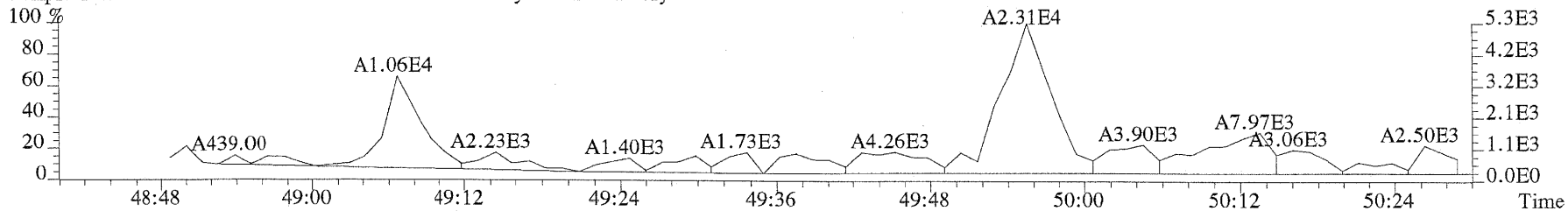
File:23JUL18Z #1-404 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



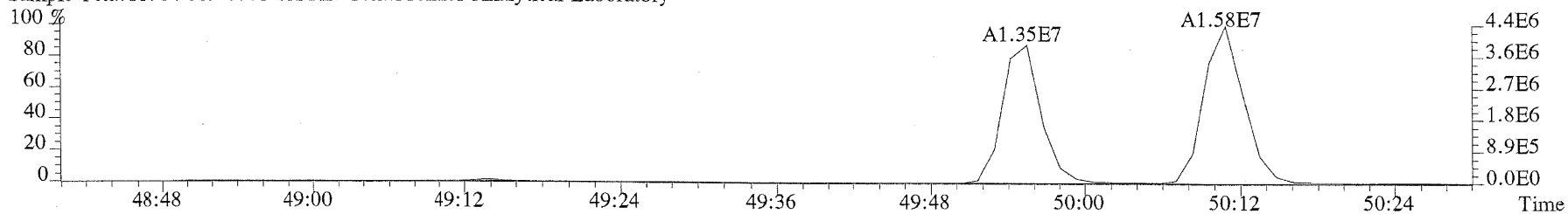
File:23JUL18Z #1-314 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



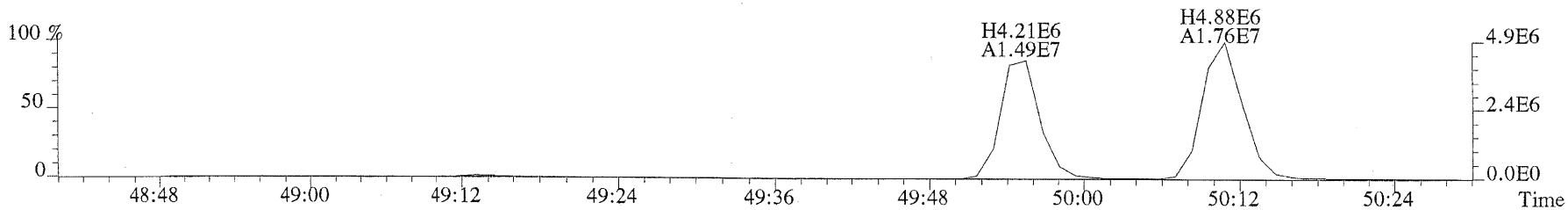
File:23JUL18Z #1-314 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



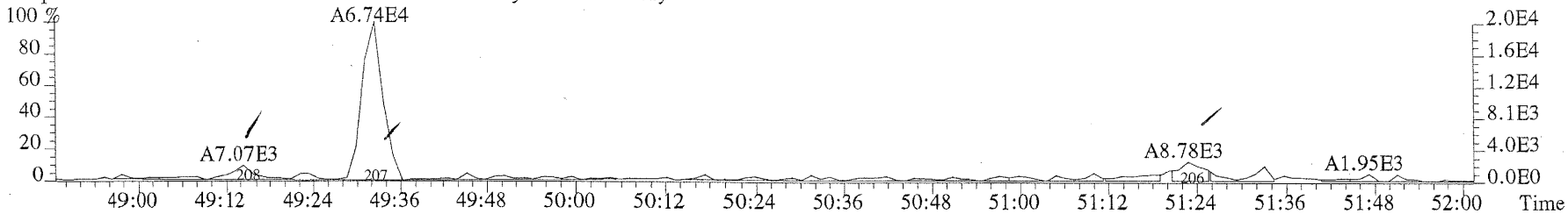
File:23JUL18Z #1-314 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



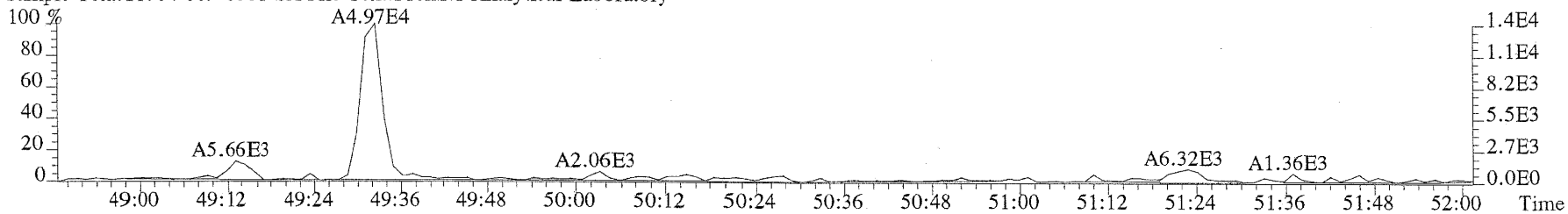
File:23JUL18Z #1-314 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



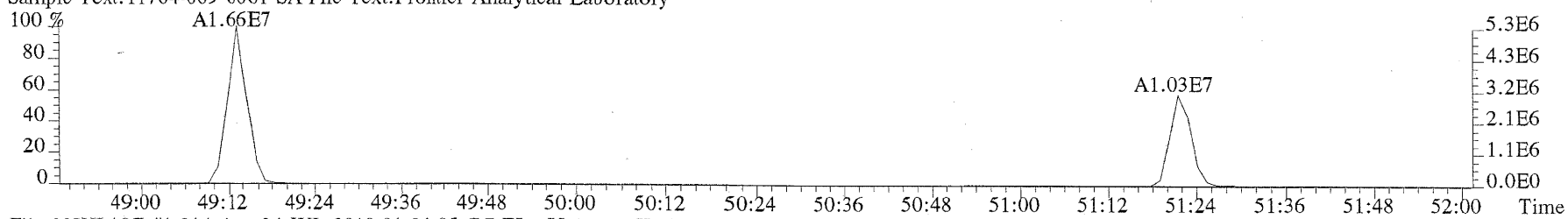
File:23JUL18Z #1-314 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



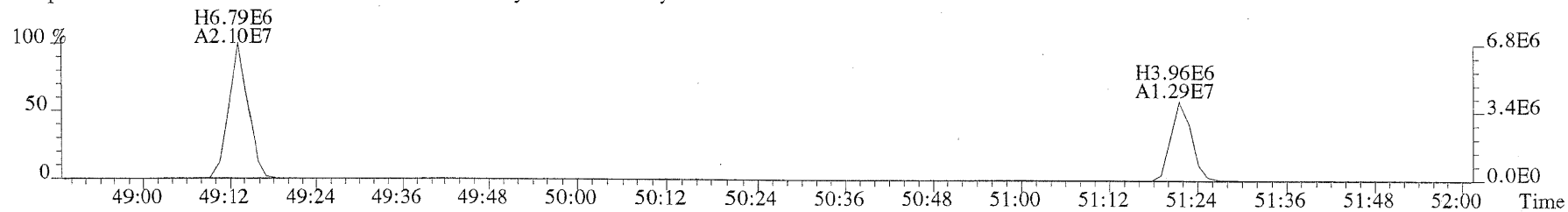
File:23JUL18Z #1-314 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



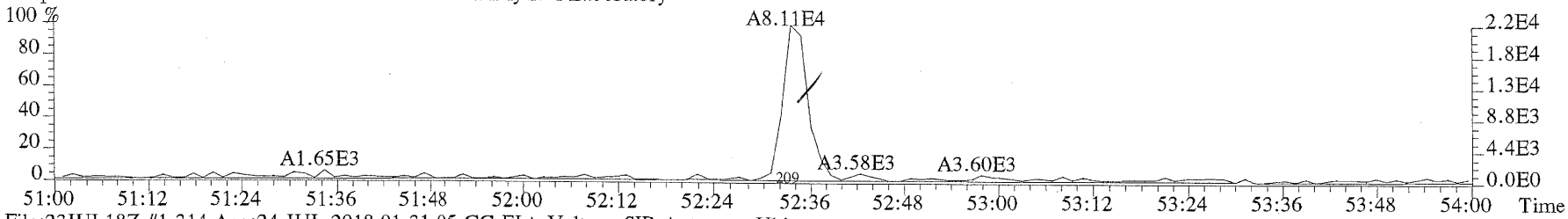
File:23JUL18Z #1-314 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



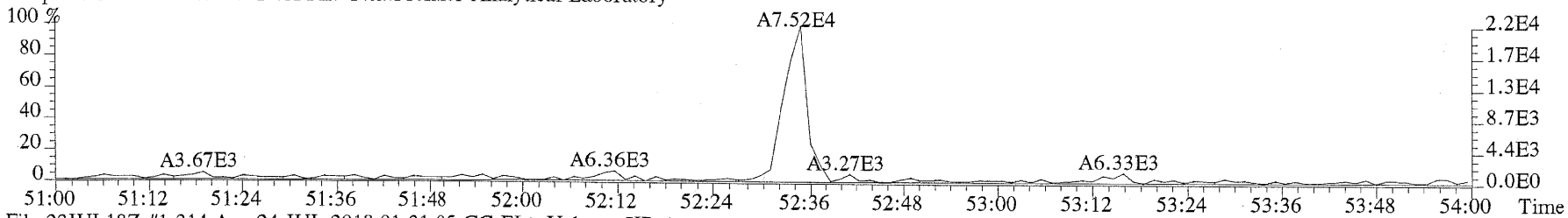
File:23JUL18Z #1-314 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



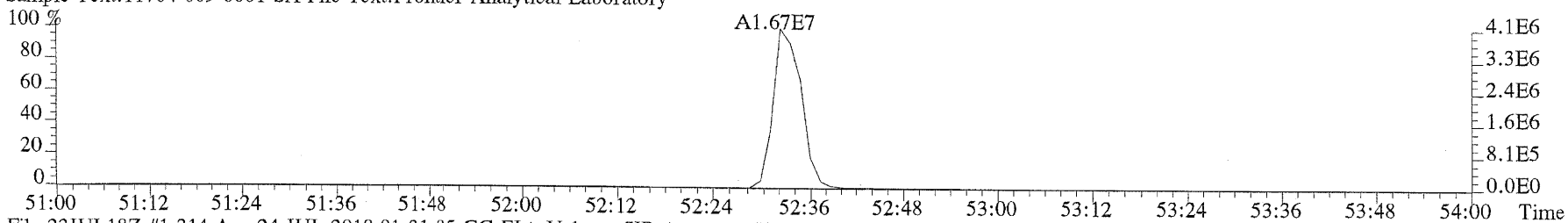
File:23JUL18Z #1-314 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



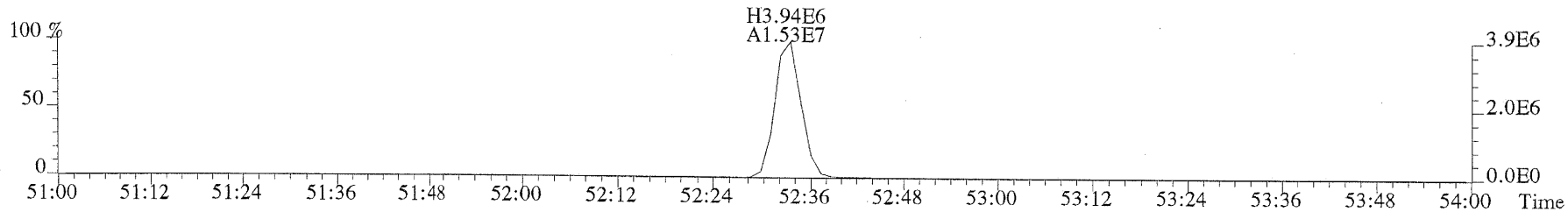
File:23JUL18Z #1-314 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



File:23JUL18Z #1-314 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



File:23JUL18Z #1-314 Acq:24-JUL-2018 01:31:05 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-009-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11704-010-0001-SA Filename: 23JUL18Z Sam:13 Acquired: 24-JUL-18 02:29:26 ICal: DAILY209FAL4-7-23-18
Client ID: LDW-Y1-IN-ENR+AC-CC-S010 ConCal: ST072318Z1 EndCal: ST072318Z2
Results: 11704-8 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	*	n	NotFnd	0.96	*		1580	1240	2.75			
13C-PCB-1	8.16e+07	3.08	y	14:35	1.11	10100					101	2.05e+07	6.50e+06
PCB-2	*	*	n	NotFnd	0.90	*		1580	1240	3.09			
PCB-3	*	*	n	NotFnd	0.94	*		1580	1240	3.10			
13C-PCB-3	8.29e+07	3.12	y	17:02	1.14	10000					100	1.86e+07	5.83e+06
PCB-4	9.05e+04	1.43	y	18:17	1.19	17.7	J	-	-	*			
PCB-10	*	*	n	NotFnd	0.98	*		1250	2300	6.11			
13C-PCB-4	4.31e+07	1.55	y	18:16	0.60	9820					98.2	7.52e+06	4.85e+06
PCB-9	*	*	n	NotFnd	1.15	*		1250	2300	5.17			
PCB-7	*	*	n	NotFnd	1.18	*		1250	2300	5.05			
PCB-6	1.03e+05	1.53	y	20:34	1.14	15.6	J	-	-	*			
PCB-8	1.97e+05	1.34	y	20:58	1.03	33.3		-	-	*			
PCB-5	*	*	n	NotFnd	1.29	*		1250	2300	4.64			
PCB-14	4.01e+05	1.42	y	22:03	1.14	61.2		-	-	*			
PCB-11	1.46e+05	1.36	y	23:10	1.09	23.3		-	-	*			
PCB-13	*	*	n	NotFnd	1.15	*		1250	2300	5.20			
PCB-12	*	*	n	NotFnd	1.17	*		1250	2300	5.09			
PCB-15	*	*	n	NotFnd	1.04	*		1250	2300	5.05			
13C-PCB-15	7.19e+07	1.56	y	23:49	1.01	9770					97.7	1.03e+07	6.60e+06
PCB-19	6.29e+04	1.15	y	22:10	1.04	12.2	J	-	-	*			
PCB-30	*	*	n	NotFnd	1.46	*		1270	636	2.44			
PCB-18	4.21e+05	1.07	y	23:43	1.05	81.7		-	-	*			
PCB-17	1.93e+05	1.14	y	23:54	1.14	34.3		-	-	*			
PCB-27	5.89e+04	1.16	y	24:25	1.46	8.19	J	-	-	*			
PCB-24	3.53e+04	1.11	y	24:26	1.51	4.74	J	-	-	*			
PCB-16	1.16e+05	0.98	y	24:55	1.21	19.5	J	-	-	*			
PCB-32	1.19e+05	0.99	y	24:56	1.32	18.2	J	-	-	*			
13C-PCB-19	4.93e+07	1.08	y	22:09	0.62	10900					109	6.92e+06	6.42e+06
13C-PCB-9	7.27e+07	1.56	y	19:56	-	45.8							
PCB-34	*	*	n	NotFnd	0.84	*		1220	868	5.93			
PCB-23	*	*	n	NotFnd	1.01	*		1220	868	4.93			
PCB-29	*	*	n	NotFnd	0.95	*		1220	868	5.24			
PCB-26	2.10e+05	1.11	y	26:13	0.89	43.0		-	-	*			
PCB-25	9.66e+04	1.00	y	26:22	0.89	19.7	J	-	-	*			
PCB-31	3.62e+05	1.03	y	26:42	0.93	70.7		-	-	*			
PCB-28	3.99e+05	1.10	y	26:48	1.10	65.8		-	-	*			
PCB-20	1.62e+05	1.13	y	27:24	0.96	30.6		-	-	*		Co-elute PCB 21/33	
PCB-21	1.62e+05	1.13	y	27:24	0.96	30.6		-	-	*		Co-elute PCB 20/33	
PCB-33	1.62e+05	1.13	y	27:24	0.96	30.6		-	-	*		Co-elute PCB 20/21	
PCB-22	9.13e+04	1.13	y	27:48	1.00	16.5	J	-	-	*			
PCB-36	1.75e+06	1.09	y	28:25	0.93	339		-	-	*			
PCB-39	*	*	n	NotFnd	0.97	*		1220	868	5.12			
PCB-38	*	*	n	NotFnd	0.97	*		1220	868	5.10			
PCB-35	*	*	n	NotFnd	0.92	*		1220	868	5.40			
PCB-37	5.84e+04	1.16	y	30:30	1.07	9.86	J	-	-	*			
13C-PCB-37	5.52e+07	1.05	y	30:28	1.24	9190					91.9	5.39e+06	5.13e+06

PCB-54	*	*	n	NotFnd	1.03	*		604	572	2.18			
PCB-50	1.42e+04	0.88	y	26:48	0.76	3.39	J	-	-	*			
PCB-53	1.47e+05	0.83	y	27:26	0.76	35.0		-	-	*			
PCB-51	4.80e+04	0.85	y	27:45	0.82	10.6	J	-	-	*			
PCB-45	7.22e+04	0.88	y	28:09	0.69	18.9	J	-	-	*			
PCB-46	2.60e+04	0.69	y	28:37	0.65	7.23	J	-	-	*			
PCB-52	1.40e+06	0.76	y	29:04	1.05	242		-	-	*	Co-elute PCB 69		
PCB-69	1.40e+06	0.76	y	29:04	1.05	242		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	0.91	*		604	572	2.47			
PCB-43	6.90e+05	0.76	y	29:21	0.79	158		-	-	*	Co-elute PCB 49		
PCB-49	6.90e+05	0.76	y	29:21	0.79	158		-	-	*	Co-elute PCB 43		
PCB-47	2.29e+05	0.77	y	29:33	0.97	42.9		-	-	*			
PCB-48	1.31e+05	0.82	y	29:40	0.99	24.0		-	-	*	Co-elute PCB 75		
PCB-75	1.31e+05	0.82	y	29:40	0.99	24.0		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	0.95	*		604	572	2.35			
PCB-62	*	*	n	NotFnd	1.10	*		604	572	2.04			
PCB-44	4.96e+05	0.78	y	30:18	0.76	119		-	-	*			
PCB-42	1.79e+05	0.82	y	30:31	1.00	32.2		-	-	*	Co-elute PCB 59		
PCB-59	1.79e+05	0.82	y	30:31	1.00	32.2		-	-	*	Co-elute PCB 42		
PCB-72	4.80e+05	0.77	y	31:05	1.05	82.6		-	-	*	Co-elute PCB 41/71/64		
PCB-41	4.80e+05	0.77	y	31:05	1.05	82.6		-	-	*	Co-elute PCB 72/71/64		
PCB-71	4.80e+05	0.77	y	31:05	1.05	82.6		-	-	*	Co-elute PCB 72/41/64		
PCB-64	4.80e+05	0.77	y	31:05	1.05	82.6		-	-	*	Co-elute PCB 72/41/71		
PCB-68	3.92e+04	0.81	y	31:19	1.15	6.19	J	-	-	*			
PCB-40	4.79e+04	0.86	y	31:32	0.67	13.0	J	-	-	*			
PCB-57	*	*	n	NotFnd	1.09	*		604	572	2.06			
PCB-67	2.42e+04	0.80	y	32:10	1.19	3.68	J	-	-	*			
PCB-58	*	*	n	NotFnd	1.04	*		604	572	2.15			
PCB-63	*	*	n	NotFnd	1.12	*		604	572	2.01			
PCB-74	2.06e+05	0.72	y	32:42	1.23	30.4		-	-	*			
PCB-61	5.67e+05	0.73	y	32:54	1.23	83.7		-	-	*	Co-elute PCB 70		
PCB-70	5.67e+05	0.73	y	32:54	1.23	83.7		-	-	*	Co-elute PCB 61		
PCB-76	4.79e+05	0.74	y	33:06	1.22	71.5		-	-	*	Co-elute PCB 66		
PCB-66	4.79e+05	0.74	y	33:06	1.22	71.5		-	-	*	Co-elute PCB 76		
PCB-80	2.71e+04	0.70	y	33:19	1.32	3.71	J	-	-	*			
PCB-55	2.58e+05	0.76	y	33:38	1.25	37.5		-	-	*			
13C-PCB-54	5.52e+07	0.78	y	25:41	1.09	10400					104	5.85e+06	7.25e+06
PCB-104	8.75e+06	1.55	y	30:09	1.14	1540		-	-	*			
PCB-96	2.59e+04	1.71	y	31:22	1.04	4.98	J	-	-	*			
PCB-103	3.23e+04	1.52	y	31:52	0.90	7.25	J	-	-	*			
PCB-100	3.66e+04	1.43	y	32:12	0.92	7.96	J	-	-	*			
PCB-94	*	*	n	NotFnd	0.79	*		372	548	2.71			
PCB-98	*	*	n	NotFnd	1.00	*		372	548	2.15	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.00	*		372	548	2.15	Co-elute PCB 98		
PCB-95	1.71e+06	1.56	y	33:09	0.84	409		-	-	*			
PCB-93	*	*	n	NotFnd	0.77	*		372	548	2.79			
PCB-88	*	*	n	NotFnd	0.89	*		372	548	2.40	Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	0.89	*		372	548	2.40	Co-elute PCB 88		
PCB-121	1.63e+07	1.58	y	33:37	1.11	2950		-	-	*			
13C-PCB-104	4.97e+07	1.62	y	30:08	0.88	11700					117	6.69e+06	4.07e+06
13C-PCB-28	5.90e+07	1.03	y	26:47	1.39	8800					88.0	7.02e+06	6.64e+06
13C-PCB-52	4.84e+07	0.78	y	29:02	-	41.8							

PCB-56	1.78e+05	0.76	y	34:04	0.96	35.0		-	-	*			Co-elute PCB 60
PCB-60	1.78e+05	0.76	y	34:04	0.96	35.0		-	-	*			Co-elute PCB 56
PCB-79	2.52e+04	0.84	y	35:05	1.01	4.72	J	-	-	*			
PCB-78	8.51e+06	0.78	y	35:47	0.98	1650		-	-	*			
PCB-81	2.84e+04	0.85	y	36:16	1.04	5.23	J	-	-	*			
13C-PCB-81	5.23e+07	0.79	y	36:16	1.14	8930					89.3	4.32e+06	5.42e+06
PCB-77	5.07e+04	0.82	y	36:51	0.98	9.67	J	-	-	*			
13C-PCB-77	5.34e+07	0.80	y	36:49	1.16	8930					89.3	4.21e+06	5.24e+06
PCB-155	1.80e+07	1.32	y	34:20	1.13	3530		-	-	*			
PCB-150	*	*	n	NotFnd	1.10	*		424	512	2.21			
PCB-152	*	*	n	NotFnd	1.05	*		424	512	2.32			
PCB-145	*	*	n	NotFnd	1.08	*		424	512	2.26			
PCB-136	3.08e+05	1.37	y	36:41	1.01	68.0		-	-	*			
PCB-148	*	*	n	NotFnd	0.87	*		424	512	2.81			
PCB-154	7.71e+04	1.29	y	37:16	0.98	17.4	J	-	-	*			
13C-PCB-155	4.51e+07	1.32	y	34:18	0.90	9690					96.9	5.51e+06	4.09e+06
13C-PCB-111	5.90e+07	1.60	y	36:25	1.21	9450					94.5	7.30e+06	4.59e+06
13C-PCB-101	5.15e+07	1.61	y	34:45	-	43.9							
PCB-84	9.52e+05	1.60	y	34:23	0.76	268		-	-	*			Co-elute PCB 92
PCB-92	9.52e+05	1.60	y	34:23	0.76	268		-	-	*			Co-elute PCB 84
PCB-89	2.97e+04	1.65	y	34:35	0.75	8.52	J	-	-	*			
PCB-90	1.70e+06	1.54	y	34:46	0.87	421		-	-	*			Co-elute PCB 101
PCB-101	1.70e+06	1.54	y	34:46	0.87	421		-	-	*			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.92	*		480	550	3.14			
PCB-99	7.91e+05	1.60	y	35:05	1.04	163		-	-	*			
PCB-119	6.61e+04	1.59	y	35:32	1.11	12.8	J	-	-	*			
PCB-83	8.84e+04	1.50	y	35:39	0.88	21.6		-	-	*			Co-elute PCB 112
PCB-112	8.84e+04	1.50	y	35:39	0.88	21.6		-	-	*			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.10	*		480	550	2.63			
PCB-97	4.04e+05	1.52	y	36:01	0.99	87.6		-	-	*			
PCB-86	*	*	n	NotFnd	0.89	*		480	550	3.26			
PCB-125	6.26e+05	1.58	y	36:17	0.98	137		-	-	*			Co-elute PCB 87/117
PCB-87	6.26e+05	1.58	y	36:17	0.98	137		-	-	*			Co-elute PCB 125/117
PCB-117	6.26e+05	1.58	y	36:17	0.98	137		-	-	*			Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.24	*		480	550	2.34			Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.24	*		480	550	2.34			Co-elute PCB 111
PCB-85	2.40e+05	1.37	y	36:31	0.99	52.1		-	-	*			Co-elute PCB 116
PCB-116	2.40e+05	1.37	y	36:31	0.99	52.1		-	-	*			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.17	*		480	550	2.47			
PCB-110	2.04e+06	1.56	y	36:54	1.21	363		-	-	*			
PCB-82	1.18e+05	1.65	y	37:29	0.68	37.5		-	-	*			
PCB-124	4.82e+04	1.50	y	38:09	1.01	10.2	J	-	-	*			
PCB-108	7.75e+04	1.39	y	38:19	0.94	17.8	J	-	-	*			Co-elute PCB 107
PCB-107	7.75e+04	1.39	y	38:19	0.94	17.8	J	-	-	*			Co-elute PCB 108
PCB-123	2.79e+04	1.38	y	38:31	1.21	5.18	J	-	-	*			
13C-PCB-123	4.46e+07	1.56	y	38:26	0.96	9400					94.0	5.01e+06	3.25e+06
PCB-118	7.80e+05	1.50	y	38:39	0.92	176		-	-	*			Co-elute PCB 106
PCB-106	7.80e+05	1.50	y	38:39	0.92	176		-	-	*			Co-elute PCB 118
13C-PCB-118	4.78e+07	1.57	y	38:37	1.09	8910					89.1	5.71e+06	3.56e+06
PCB-114	2.80e+04	1.49	y	39:15	0.93	6.49	J	-	-	*			
13C-PCB-114	4.64e+07	1.58	y	39:14	1.04	9090					90.9	5.46e+06	3.42e+06
PCB-122	*	*	n	NotFnd	1.09	*		568	632	3.10			
PCB-105	2.64e+05	1.70	y	40:05	0.99	56.4		-	-	*			
13C-PCB-105	4.71e+07	1.61	y	40:03	1.04	9200					92.0	5.71e+06	3.56e+06

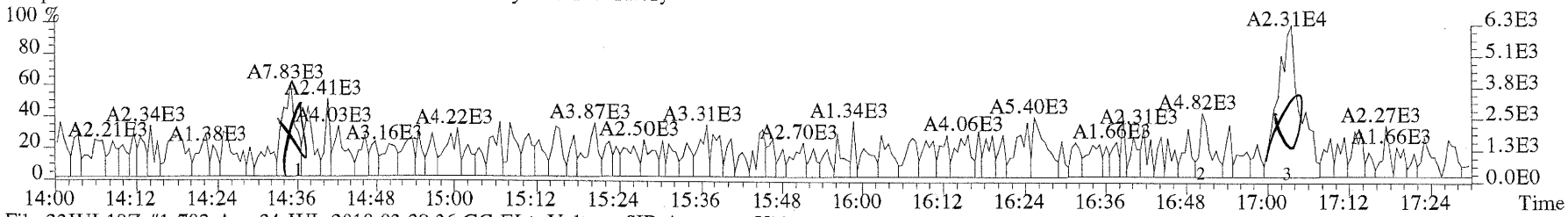
PCB-127	*	*	n	NotFnd	0.94	*		568	632	3.57				
PCB-126	*	*	n	NotFnd	1.01	*		568	632	3.47				
13C-PCB-126	4.65e+07	1.57	y	42:11	1.04	9100					91.0	5.24e+06	3.33e+06	
PCB-151	2.83e+05	1.23	y	37:53	0.73	69.2		-	-	*				
PCB-135	2.04e+05	1.29	y	38:05	0.79	46.1		-	-	*				
PCB-144	5.39e+04	1.41	y	38:11	0.70	13.8	J	-	-	*				
PCB-147	3.47e+04	1.06	y	38:19	0.79	7.80	J	-	-	*				
PCB-139	1.09e+06	1.21	y	38:33	0.79	245		-	-	*				Co-elute PCB 149
PCB-149	1.09e+06	1.21	y	38:33	0.79	245		-	-	*				Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.79	*		604	628	3.42				
PCB-143	8.49e+04	1.16	y	39:10	0.74	20.6		-	-	*				Co-elute PCB 134
PCB-134	8.49e+04	1.16	y	39:10	0.74	20.6		-	-	*				Co-elute PCB 143
PCB-131	3.61e+04	1.11	y	39:27	0.74	8.70	J	-	-	*				Co-elute PCB 133
PCB-133	3.61e+04	1.11	y	39:27	0.74	8.70	J	-	-	*				Co-elute PCB 131
PCB-142	1.86e+07	1.22	y	39:35	0.67	4980		-	-	*				
PCB-165	2.56e+05	1.21	y	39:48	0.87	52.8		-	-	*				Co-elute PCB 146
PCB-146	2.56e+05	1.21	y	39:48	0.87	52.8		-	-	*				Co-elute PCB 165
PCB-161	4.01e+05	1.11	y	40:03	0.82	87.5		-	-	*				Co-elute PCB 132
PCB-132	4.01e+05	1.11	y	40:03	0.82	87.5		-	-	*				Co-elute PCB 161
PCB-153	1.43e+06	1.20	y	40:11	0.88	289		-	-	*				
PCB-168	*	*	n	NotFnd	1.00	*		604	628	2.70				
PCB-141	1.50e+05	1.15	y	40:54	0.76	35.4		-	-	*				
PCB-137	5.86e+04	1.15	y	41:16	0.73	14.3	J	-	-	*				
PCB-130	7.23e+04	1.18	y	41:20	0.69	18.6	J	-	-	*				
PCB-138	1.23e+06	1.17	y	41:42	0.99	222		-	-	*				Co-elute PCB 163/164
PCB-163	1.23e+06	1.17	y	41:42	0.99	222		-	-	*				Co-elute PCB 138/164
PCB-164	1.23e+06	1.17	y	41:42	0.99	222		-	-	*				Co-elute PCB 138/163
PCB-158	1.36e+05	1.35	y	41:57	1.02	23.9		-	-	*				Co-elute PCB 160
PCB-160	1.36e+05	1.35	y	41:57	1.02	23.9		-	-	*				Co-elute PCB 158
PCB-129	4.83e+04	1.09	y	42:08	0.65	13.3	J	-	-	*				
PCB-166	*	*	n	NotFnd	0.96	*		604	628	2.80				
PCB-159	2.94e+04	1.19	y	42:56	1.05	5.01	J	-	-	*				
PCB-128	1.90e+05	1.24	y	43:11	0.86	39.6		-	-	*				Co-elute PCB 162
PCB-162	1.90e+05	1.24	y	43:11	0.86	39.6		-	-	*				Co-elute PCB 128
PCB-167	5.30e+04	1.27	y	43:34	0.93	9.92	J	-	-	*				
13C-PCB-167	5.72e+07	1.26	y	43:32	1.18	9860					98.6	6.00e+06	4.79e+06	
PCB-156	1.06e+05	1.08	y	44:48	0.99	19.2	J	-	-	*				
13C-PCB-156	5.56e+07	1.27	y	44:46	1.15	9870					98.7	6.20e+06	5.00e+06	
PCB-157	2.75e+04	1.10	y	45:03	1.02	4.73	J	-	-	*				
13C-PCB-157	5.67e+07	1.24	y	45:01	1.18	9790					97.9	6.47e+06	5.13e+06	
PCB-169	*	*	n	NotFnd	0.99	*		604	628	2.53				
13C-PCB-169	5.47e+07	1.26	y	46:53	1.10	10100					101	6.78e+06	5.48e+06	

FAL ID: 11704-010-0001-SA Filename: 23JUL18Z Sam:13 Acquired: 24-JUL-18 02:29:26 ICal: DAILY209FAL4-7-23-18
Client ID: LDW-Y1-IN-ENR+AC-CC-S010 ConCal: ST072318Z1 EndCal: ST072318Z2
Results: 11704-8 GC Column: DB1MS Amount: 1.000

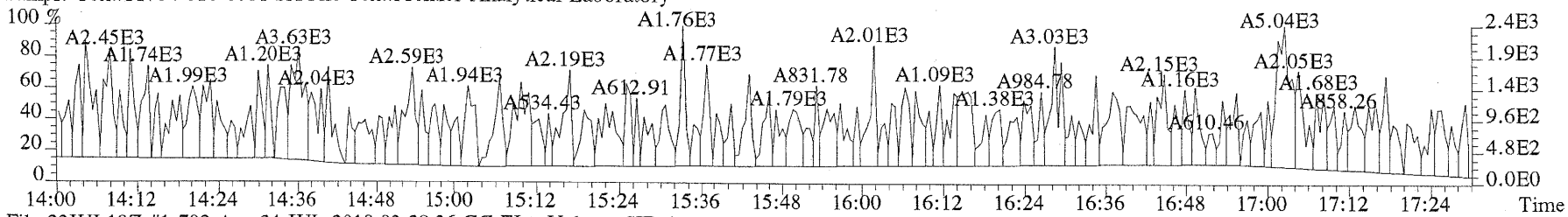
PCB-188	2.10e+04	1.07	y	39:48	1.08	3.38	J	-	-	*		
13C-PCB-188	5.74e+07	1.05	y	39:48	1.11	10500					105	6.23e+06	5.86e+06
PCB-184	2.37e+07	1.03	y	40:15	1.13	3780		-	-	*		
PCB-179	1.72e+05	0.96	y	40:59	1.05	29.5		-	-	*		
PCB-176	4.67e+04	1.12	y	41:25	1.03	8.16	J	-	-	*		
PCB-186	*	*	n	NotFnd	1.08	*		584	388	1.73		
PCB-178	5.05e+04	0.97	y	42:28	0.76	12.0	J	-	-	*		
PCB-175	*	*	n	NotFnd	0.79	*		584	388	2.36		
PCB-187	2.91e+05	1.09	y	42:56	0.89	59.0		-	-	*	Co-elute PCB 182	
PCB-182	2.91e+05	1.09	y	42:56	0.89	59.0		-	-	*	Co-elute PCB 187	
PCB-183	1.58e+05	1.08	y	43:16	0.86	33.2		-	-	*		
PCB-185	*	*	n	NotFnd	0.82	*		584	388	2.28		
PCB-174	2.03e+05	1.07	y	44:13	0.76	48.2		-	-	*		
PCB-181	*	*	n	NotFnd	0.87	*		584	388	2.14		
PCB-177	1.20e+05	1.13	y	44:28	0.76	28.4		-	-	*		
PCB-171	5.97e+04	0.94	y	44:46	0.76	14.1	J	-	-	*		
PCB-173	*	*	n	NotFnd	0.72	*		584	388	2.57		
PCB-172	5.05e+05	1.13	y	45:31	0.72	126		-	-	*		
PCB-192	1.65e+07	1.05	y	45:44	1.03	2880		-	-	*		
PCB-180	3.89e+05	1.05	y	45:55	0.99	70.9		-	-	*		
PCB-193	5.32e+04	1.08	y	46:04	1.09	8.80	J	-	-	*		
PCB-191	*	*	n	NotFnd	1.02	*		584	388	1.83		
PCB-170	1.33e+05	1.16	y	47:11	0.71	34.0		-	-	*		
PCB-190	4.35e+04	0.93	y	47:21	1.00	7.87	J	-	-	*		
PCB-189	*	*	n	NotFnd	1.04	*		584	388	1.64		
13C-PCB-189	5.32e+07	1.05	y	48:32	1.00	10800					108	7.27e+06	6.95e+06
PCB-202	2.52e+04	0.80	y	44:54	0.95	6.18	J	-	-	*		
PCB-201	*	*	n	NotFnd	0.94	*		232	392	1.70		
PCB-204	3.27e+07	0.92	y	45:31	0.92	8290		-	-	*		
PCB-197	1.90e+05	1.00	y	45:45	1.00	44.4		-	-	*		
PCB-200	*	*	n	NotFnd	0.93	*		232	392	1.71		
PCB-198	*	*	n	NotFnd	0.62	*		232	392	2.56		
PCB-199	5.99e+04	0.85	y	47:47	0.75	18.5	J	-	-	*		
PCB-203	6.39e+04	0.95	y	48:02	0.75	19.7	J	-	-	*	Co-elute PCB 196	
PCB-196	6.39e+04	0.95	y	48:02	0.75	19.7	J	-	-	*	Co-elute PCB 203	
13C-PCB-202	4.30e+07	0.93	y	44:54	0.84	10400					104	4.69e+06	5.10e+06
13C-PCB-178	4.15e+07	1.09	y	42:26	0.86	9790					97.9	4.55e+06	4.17e+06
13C-PCB-138	4.92e+07	1.26	y	41:40	-	42.4							
PCB-195	1.82e+04	0.93	y	49:08	0.74	6.98	J	-	-	*		
PCB-194	3.23e+04	0.78	y	49:56	0.77	11.9	J	-	-	*		
PCB-205	*	*	n	NotFnd	1.02	*		272	680	2.39		
13C-PCB-205	3.52e+07	0.91	y	50:11	1.20	10300					103	4.67e+06	5.10e+06
PCB-208	1.13e+04	1.34	y	49:13	0.91	3.08	J	-	-	*		
13C-PCB-208	4.04e+07	0.80	y	49:13	1.23	11500					115	5.65e+06	6.96e+06
PCB-207	9.73e+04	1.49	y	49:32	0.93	30.4		-	-	*		
PCB-206	1.36e+04	1.24	y	51:23	0.96	5.05	J	-	-	*		
13C-PCB-206	2.82e+07	0.79	y	51:22	0.86	11400					114	3.72e+06	4.57e+06
PCB-209	1.45e+05	1.17	y	52:35	1.05	36.1		-	-	*		
13C-PCB-209	3.80e+07	1.19	y	52:34	1.02	13100					131	5.74e+06	4.84e+06
13C-PCB-194	2.86e+07	0.92	y	49:54	-	34.2							

Analyst: _____ Date: 8/20/18

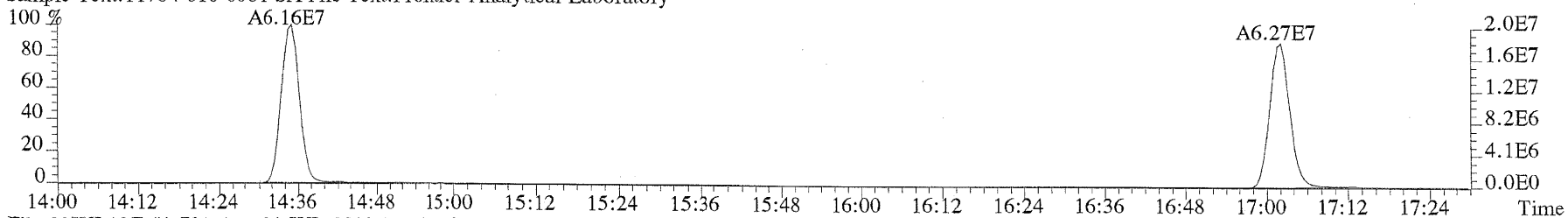
File:23JUL18Z #1-783 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



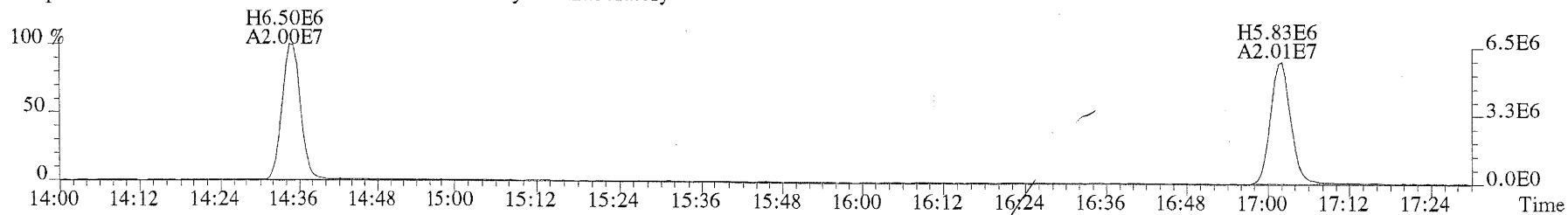
File:23JUL18Z #1-783 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



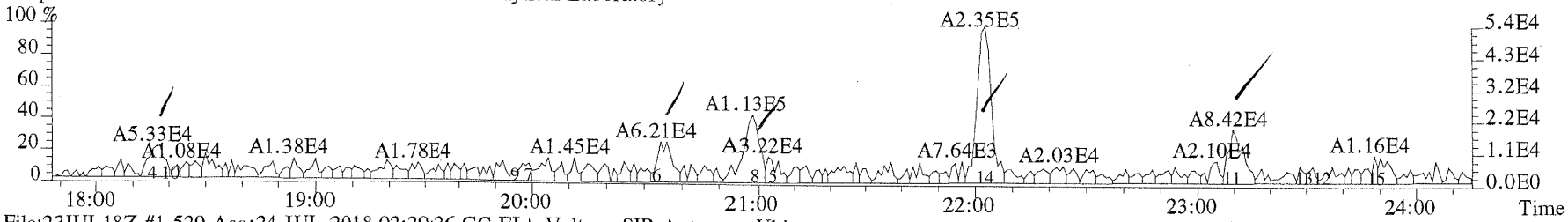
File:23JUL18Z #1-783 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



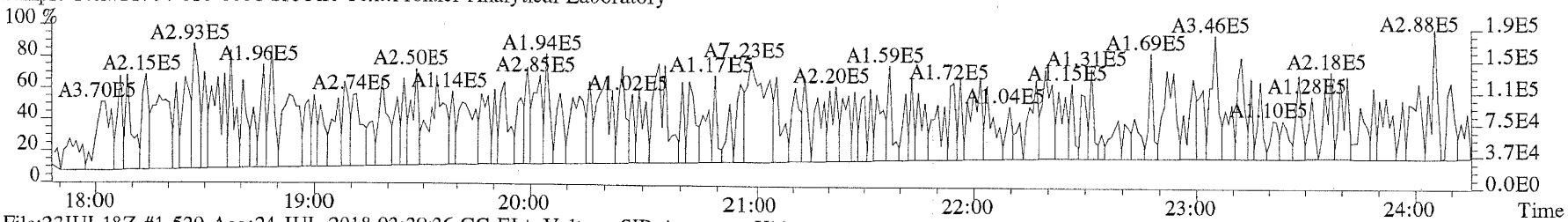
File:23JUL18Z #1-783 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



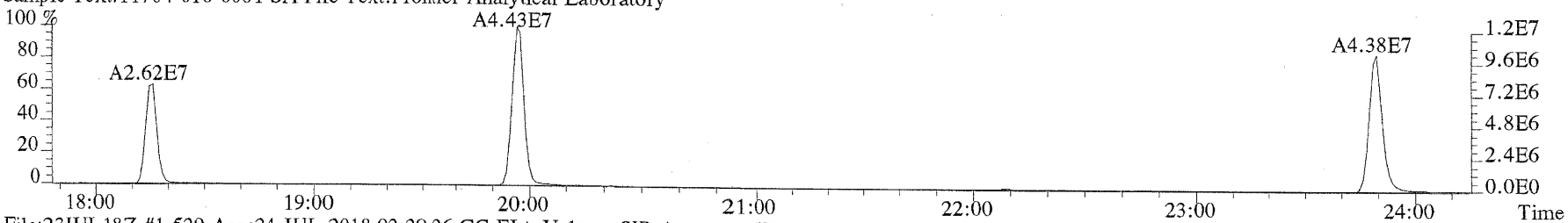
File:23JUL18Z #1-520 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



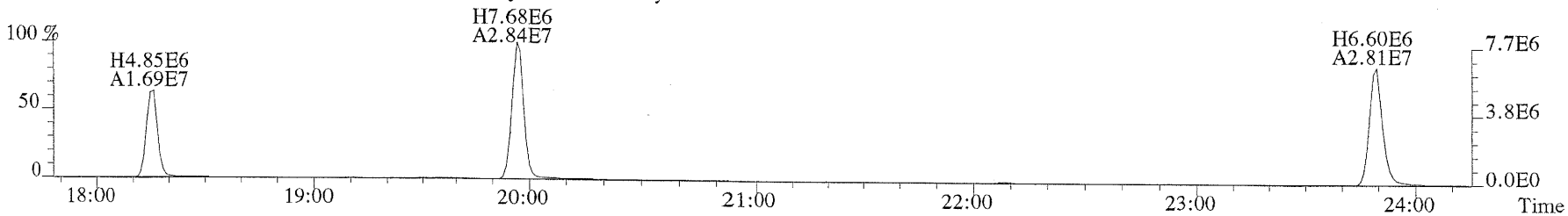
File:23JUL18Z #1-520 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



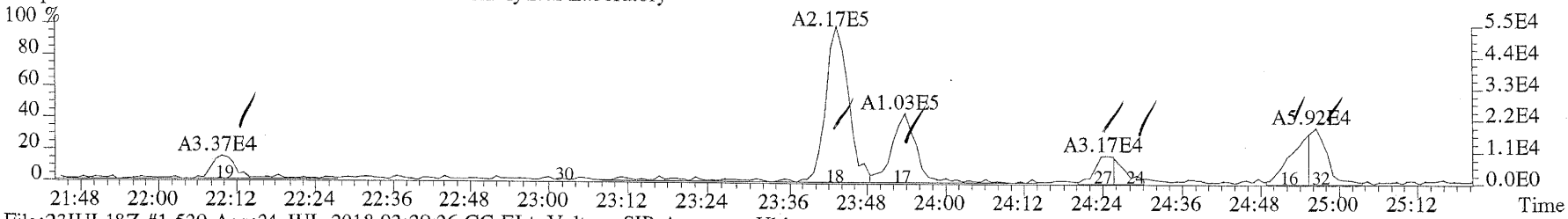
File:23JUL18Z #1-520 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



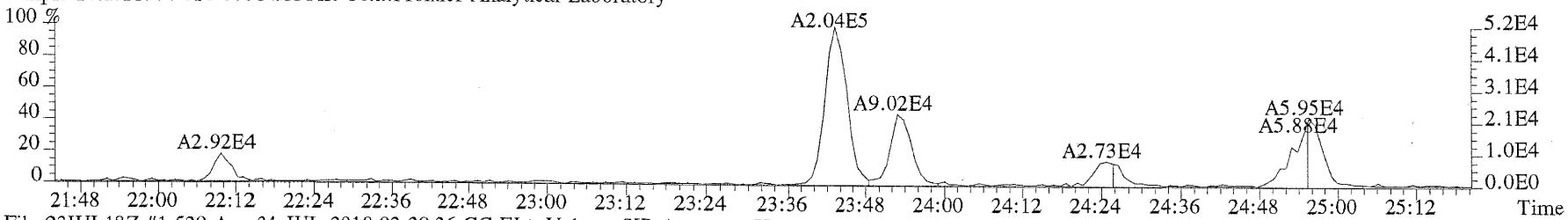
File:23JUL18Z #1-520 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



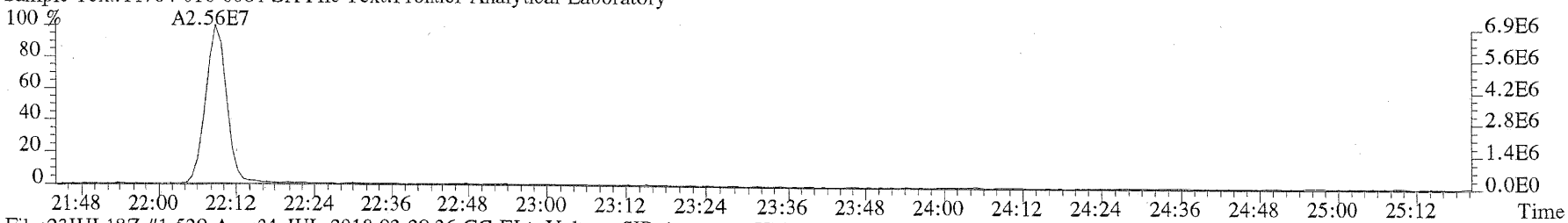
File:23JUL18Z #1-520 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



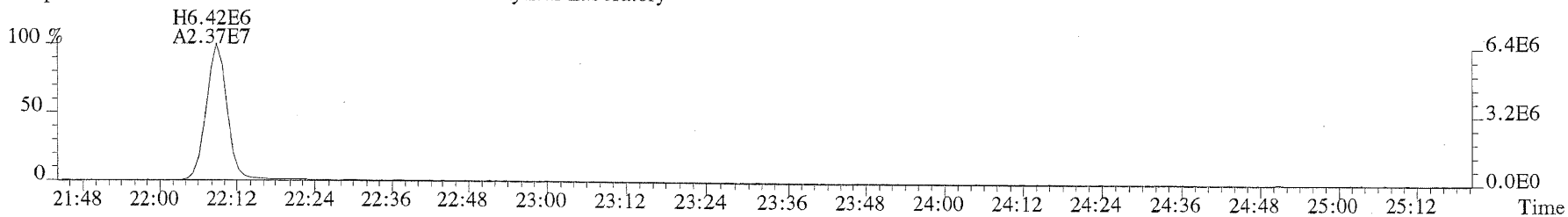
File:23JUL18Z #1-520 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



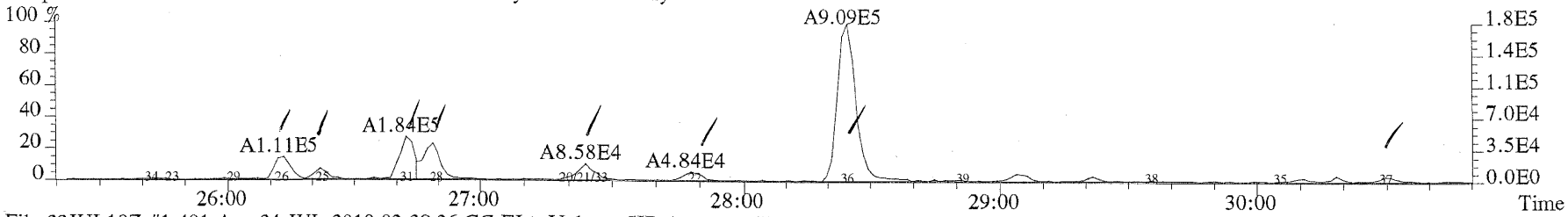
File:23JUL18Z #1-520 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



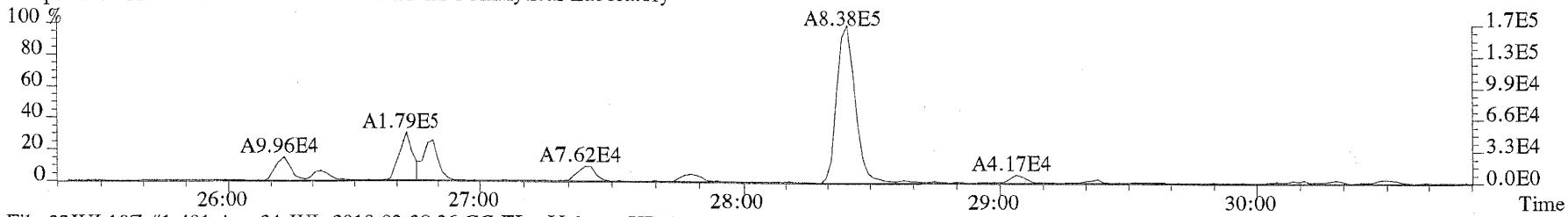
File:23JUL18Z #1-520 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



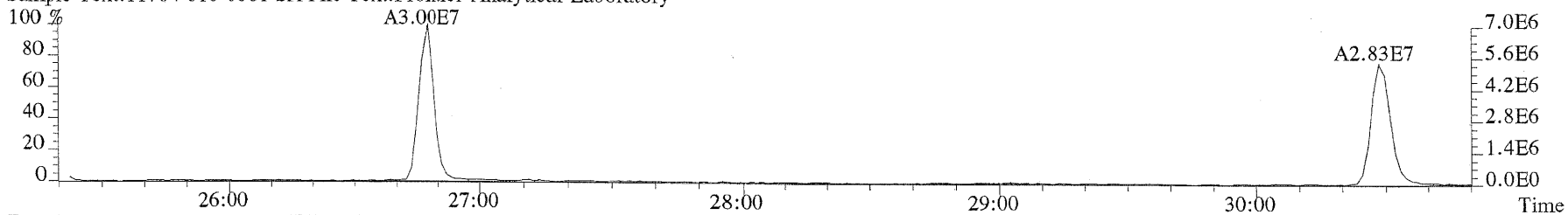
File:23JUL18Z #1-401 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



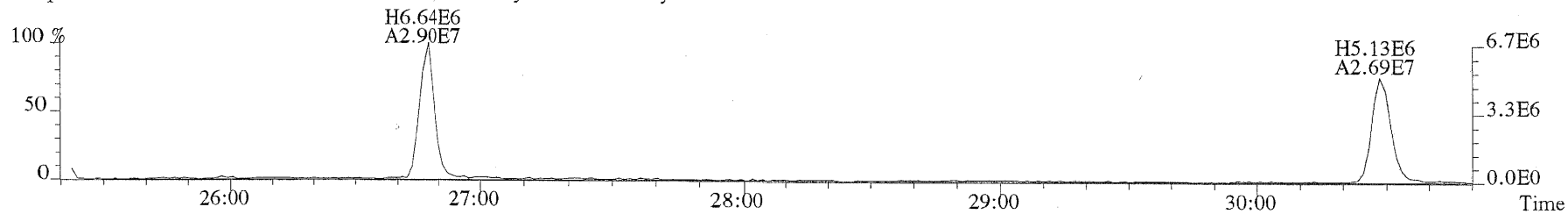
File:23JUL18Z #1-401 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



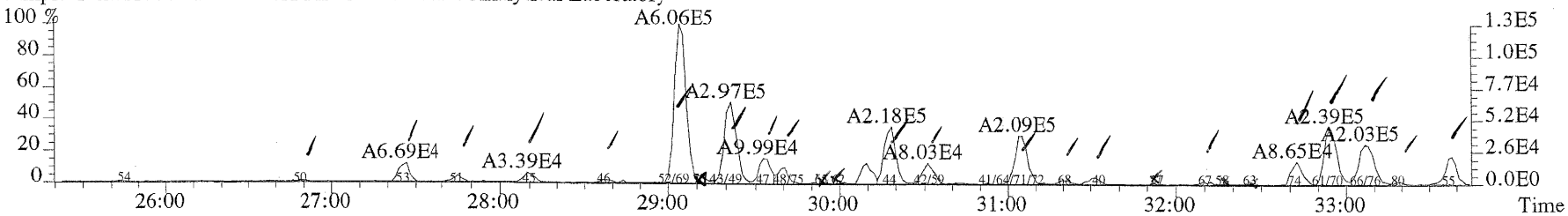
File:23JUL18Z #1-401 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



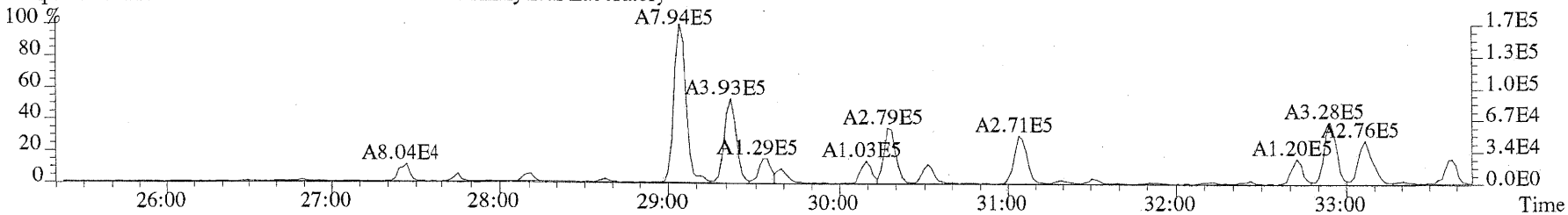
File:23JUL18Z #1-401 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



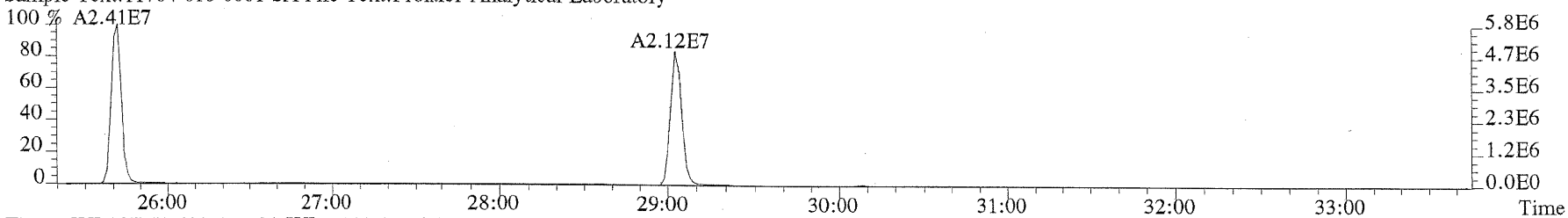
File:23JUL18Z #1-401 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



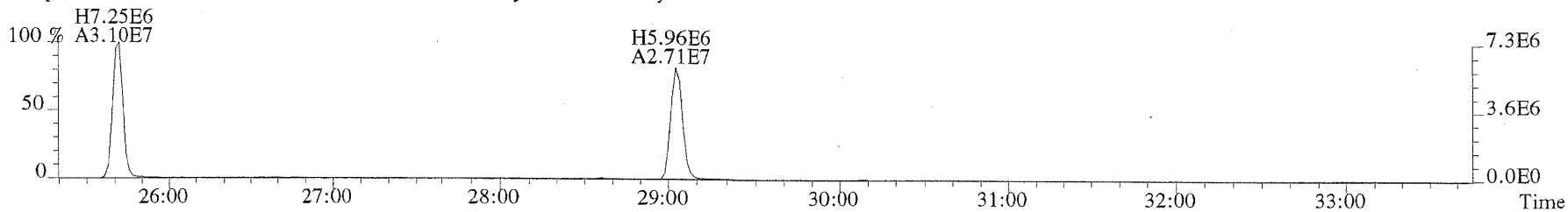
File:23JUL18Z #1-401 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



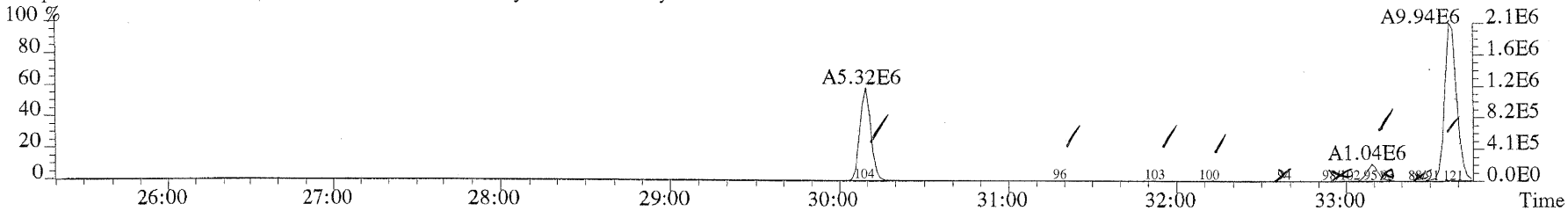
File:23JUL18Z #1-401 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



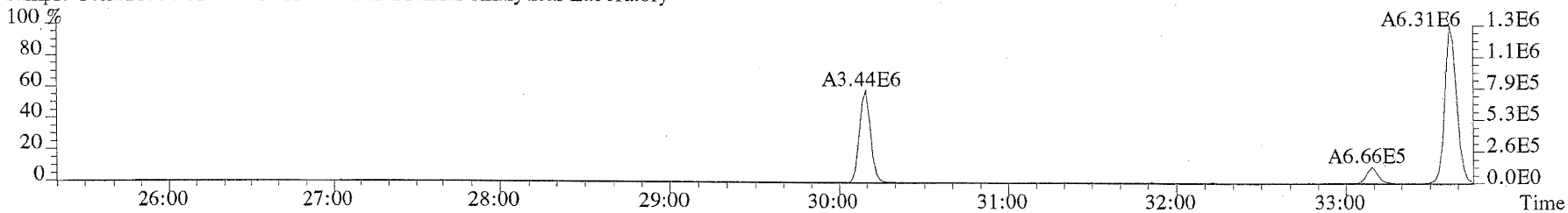
File:23JUL18Z #1-401 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



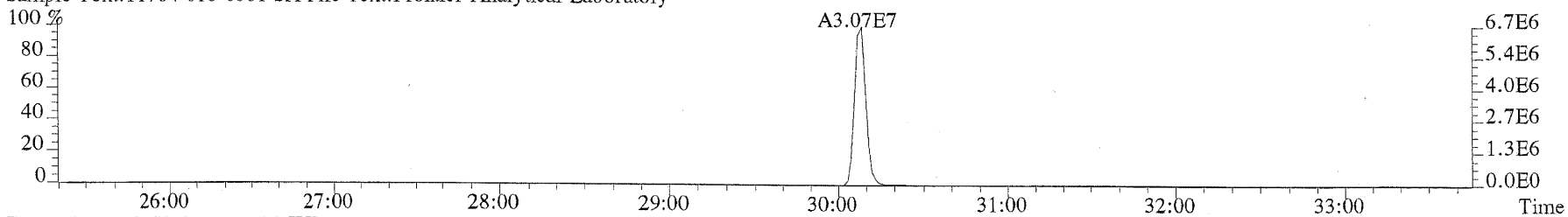
File:23JUL18Z #1-401 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



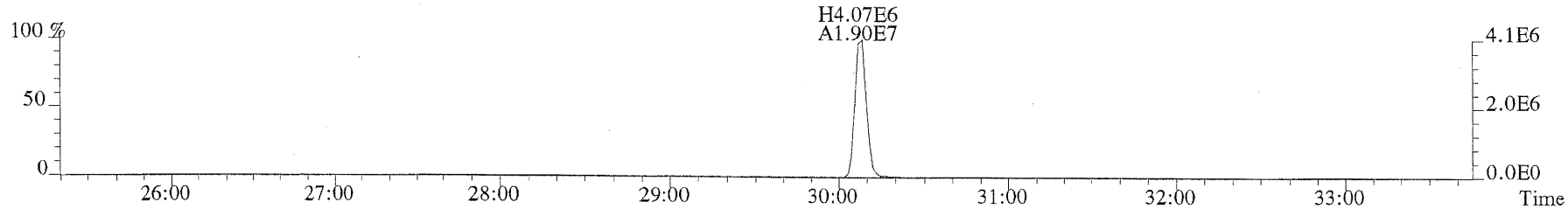
File:23JUL18Z #1-401 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



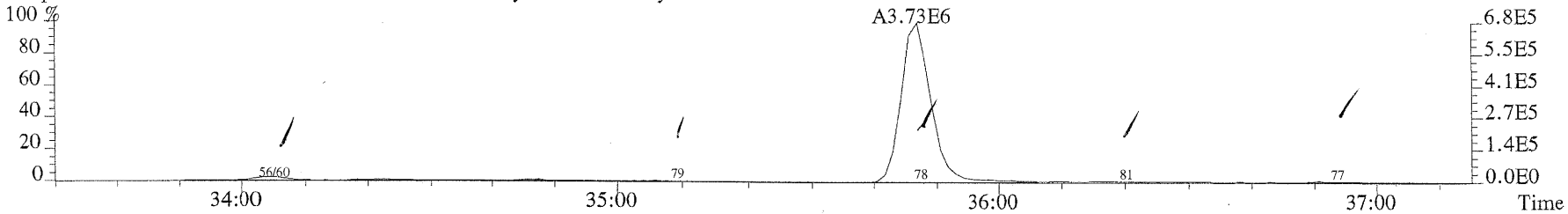
File:23JUL18Z #1-401 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



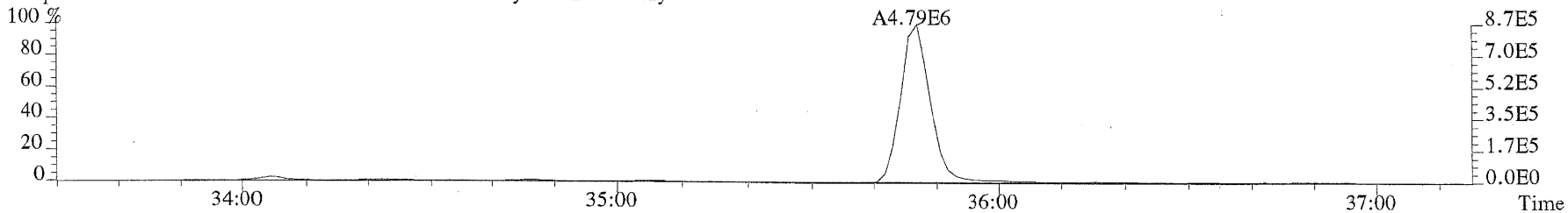
File:23JUL18Z #1-401 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



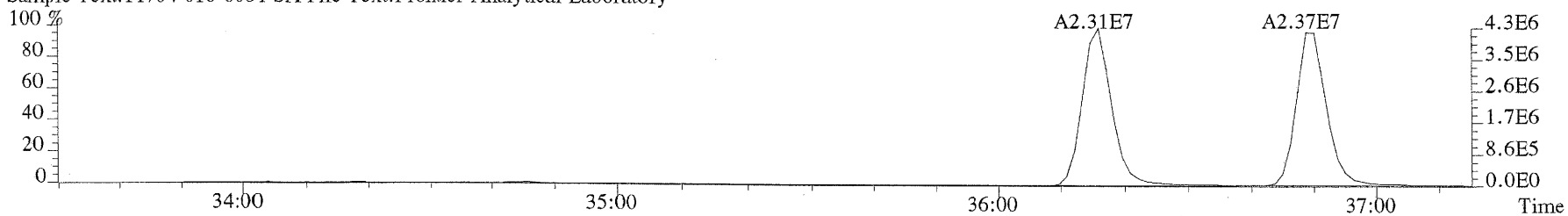
File:23JUL18Z #1-183 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



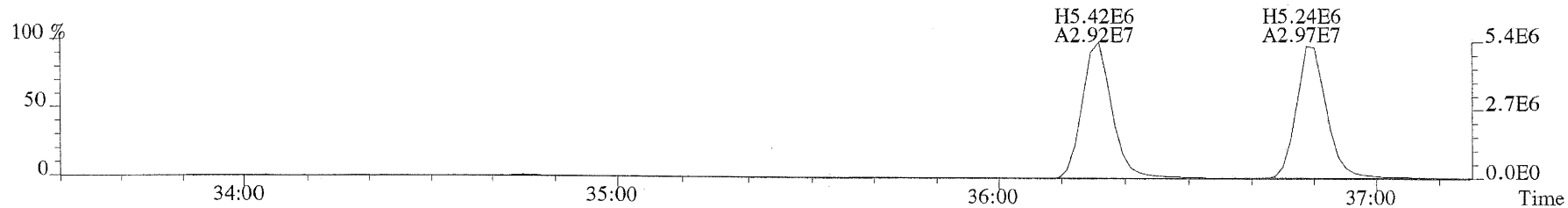
File:23JUL18Z #1-183 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



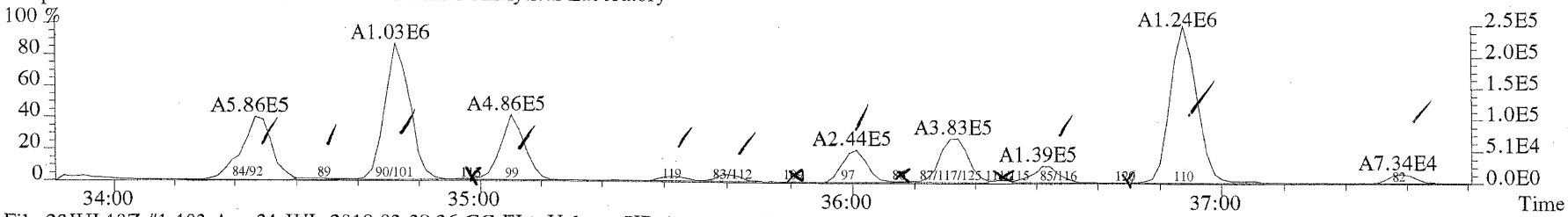
File:23JUL18Z #1-183 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



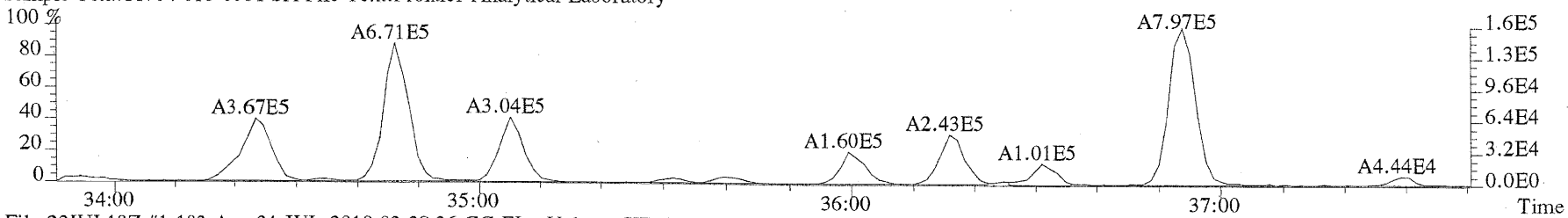
File:23JUL18Z #1-183 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



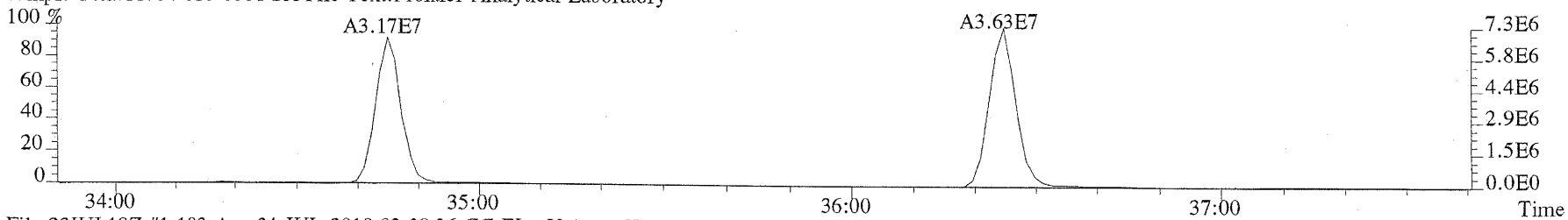
File:23JUL18Z #1-183 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



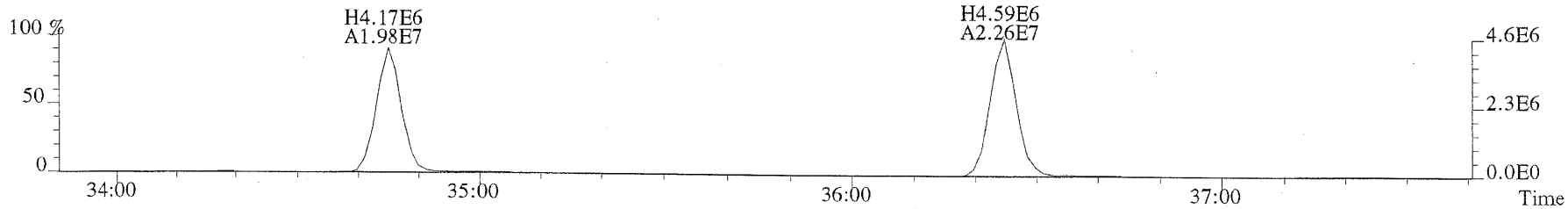
File:23JUL18Z #1-183 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



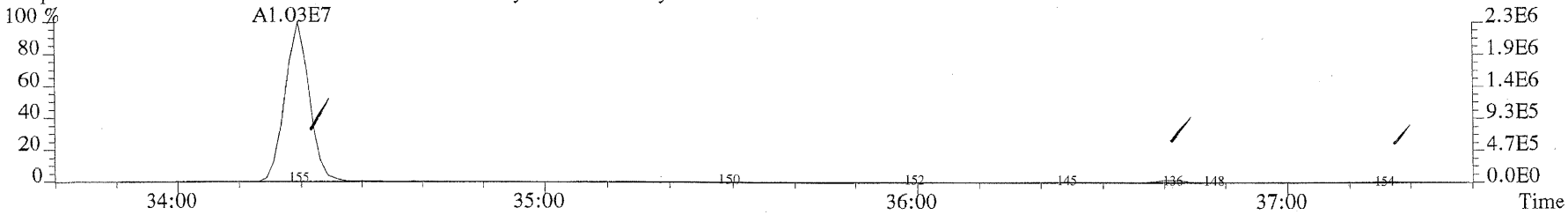
File:23JUL18Z #1-183 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



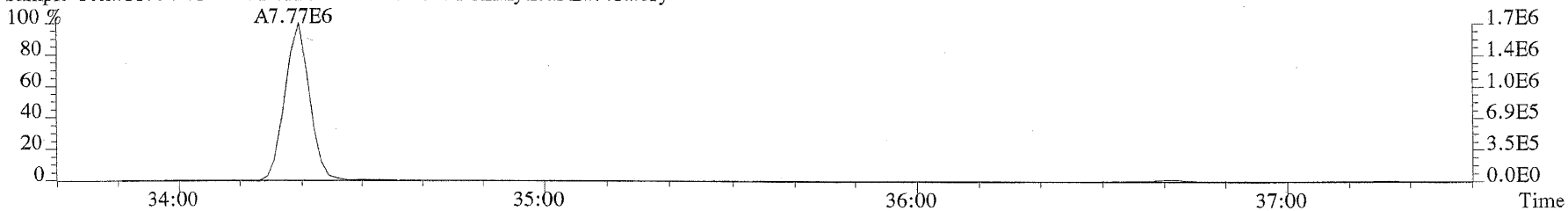
File:23JUL18Z #1-183 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



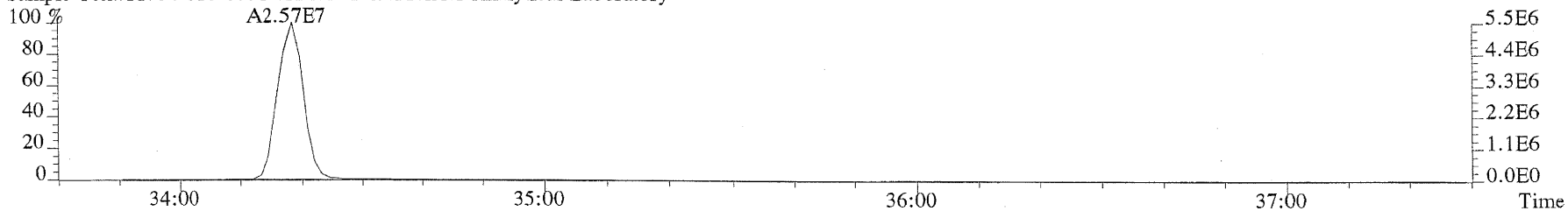
File:23JUL18Z #1-183 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



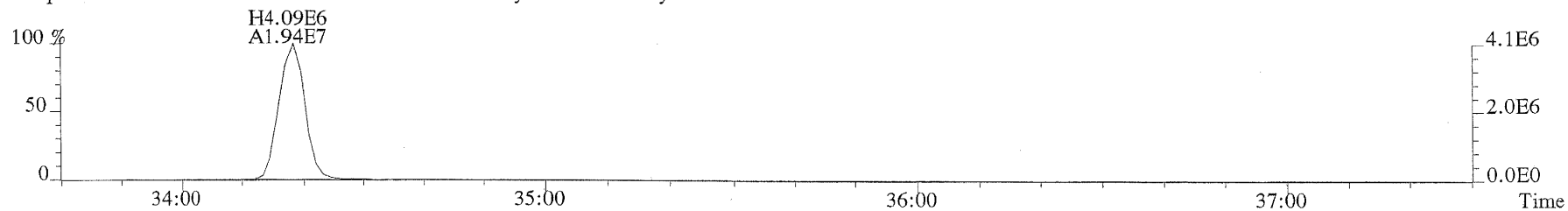
File:23JUL18Z #1-183 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



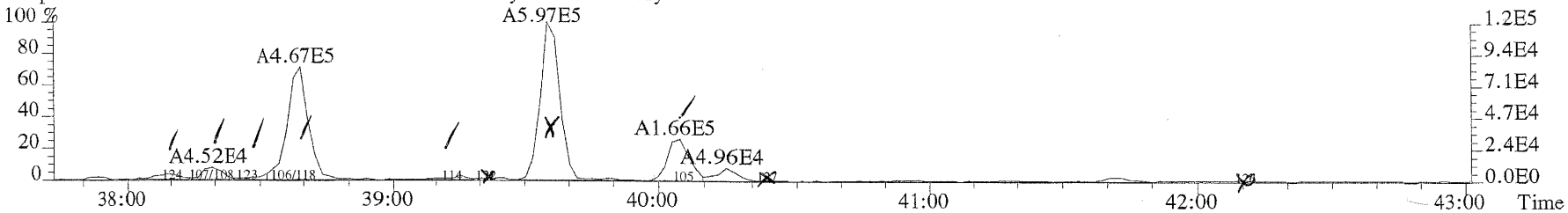
File:23JUL18Z #1-183 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



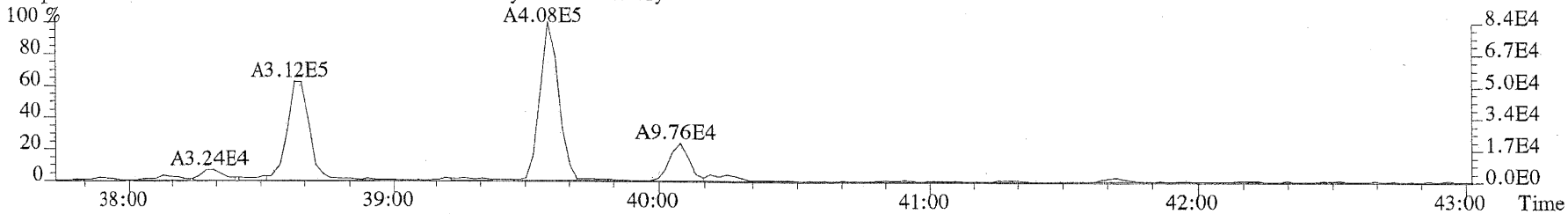
File:23JUL18Z #1-183 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



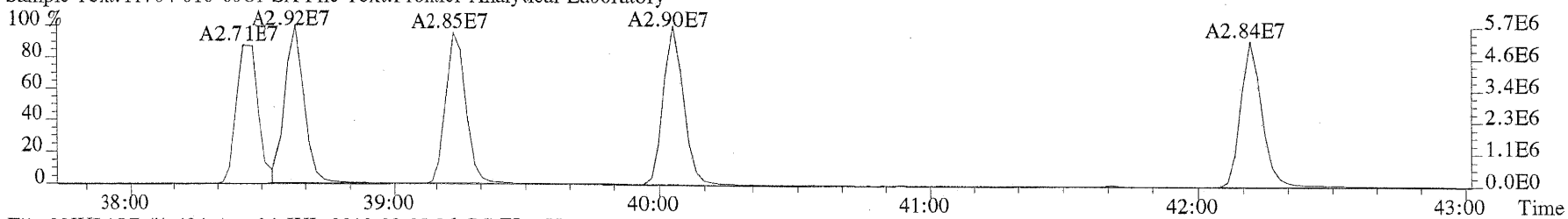
File:23JUL18Z #1-404 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



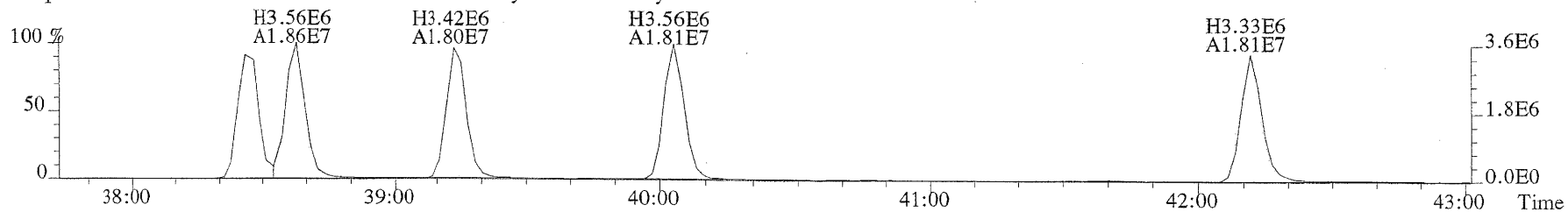
File:23JUL18Z #1-404 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



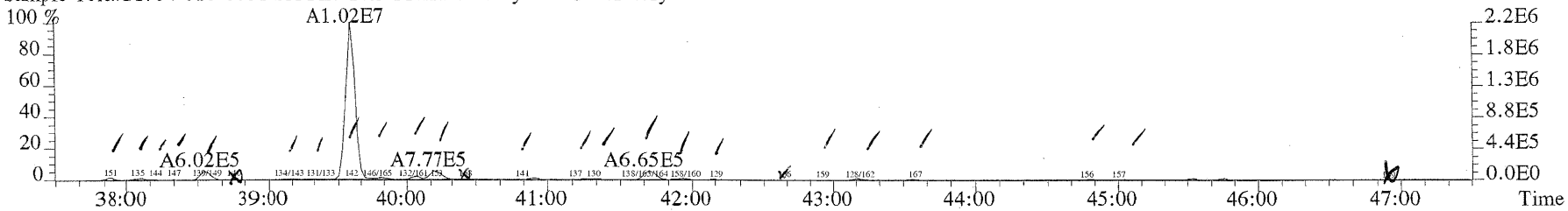
File:23JUL18Z #1-404 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



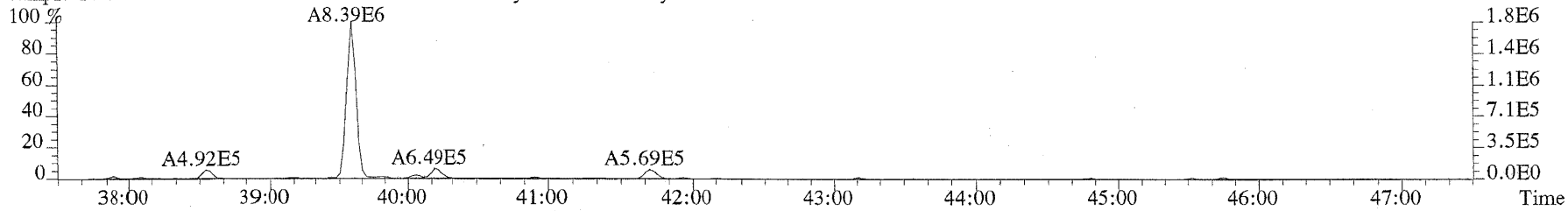
File:23JUL18Z #1-404 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



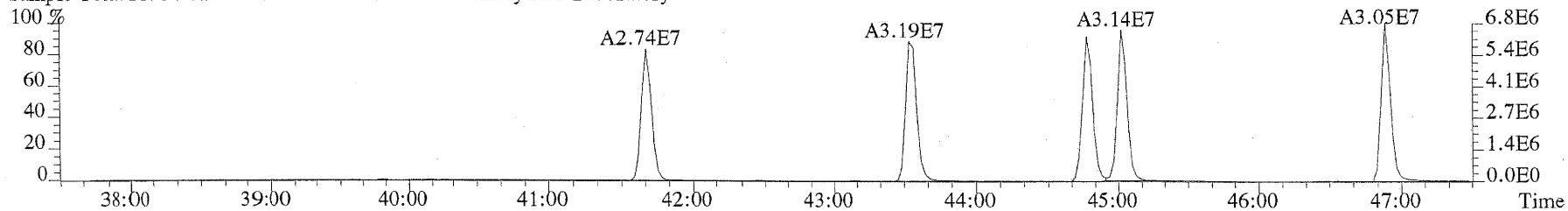
File:23JUL18Z #1-404 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



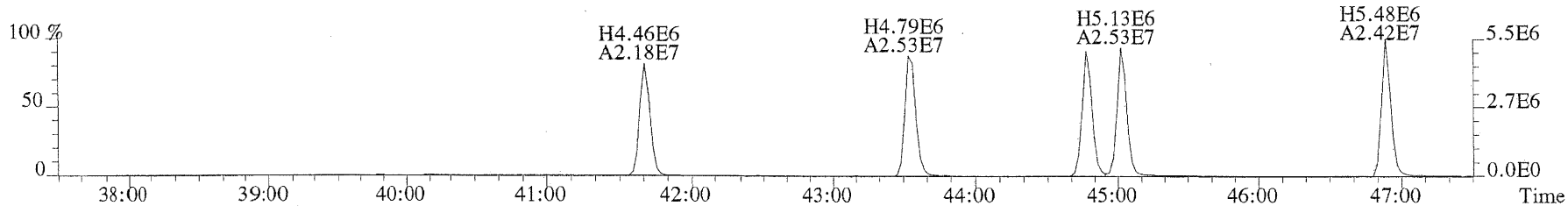
File:23JUL18Z #1-404 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



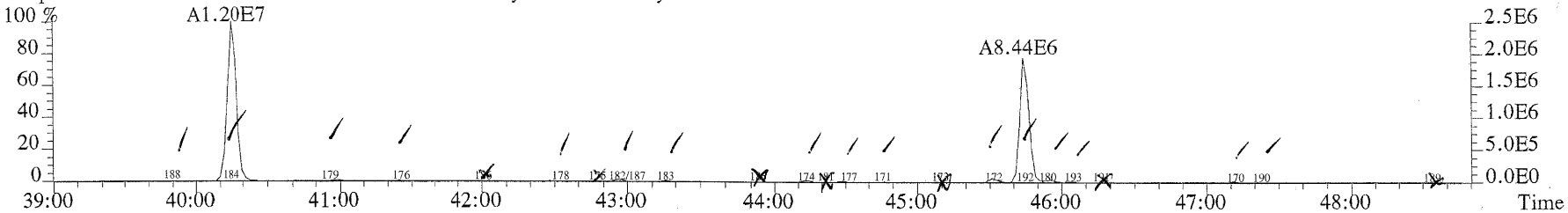
File:23JUL18Z #1-404 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



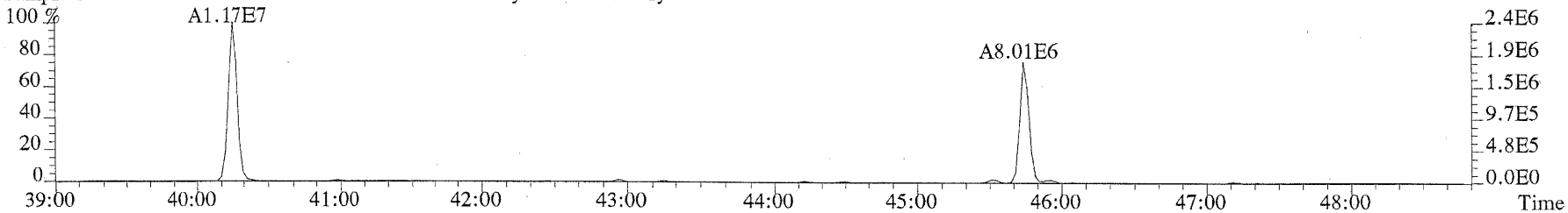
File:23JUL18Z #1-404 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



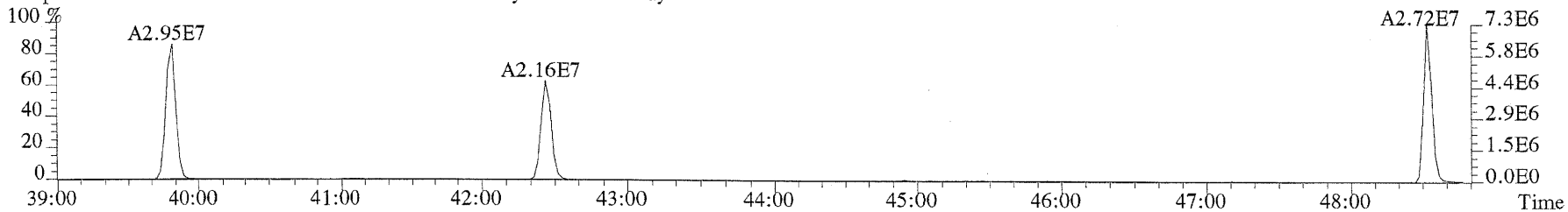
File:23JUL18Z #1-404 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



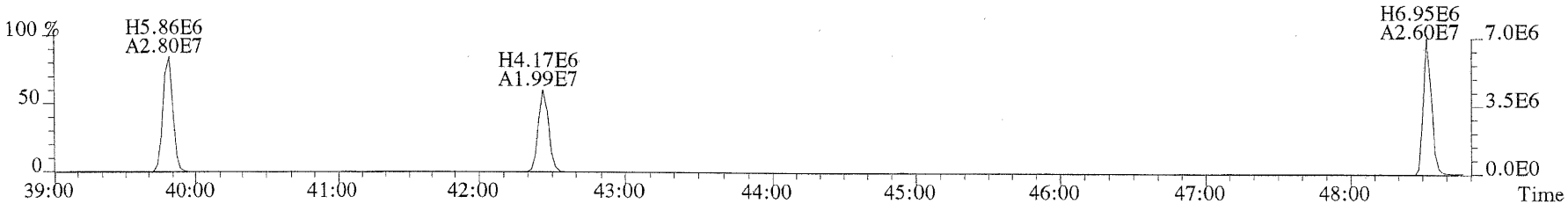
File:23JUL18Z #1-404 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



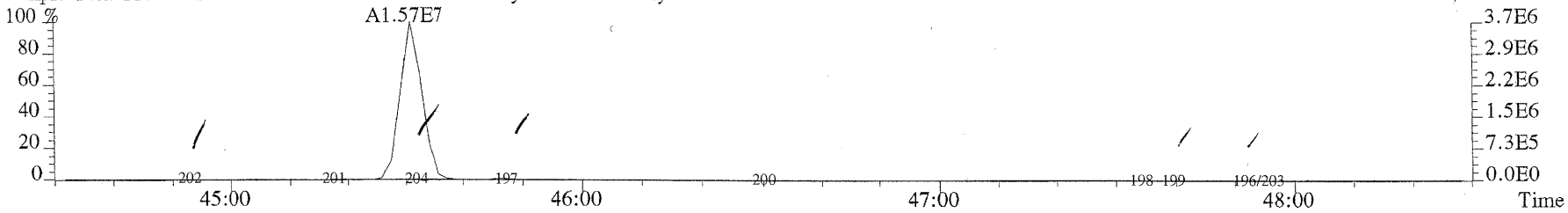
File:23JUL18Z #1-404 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



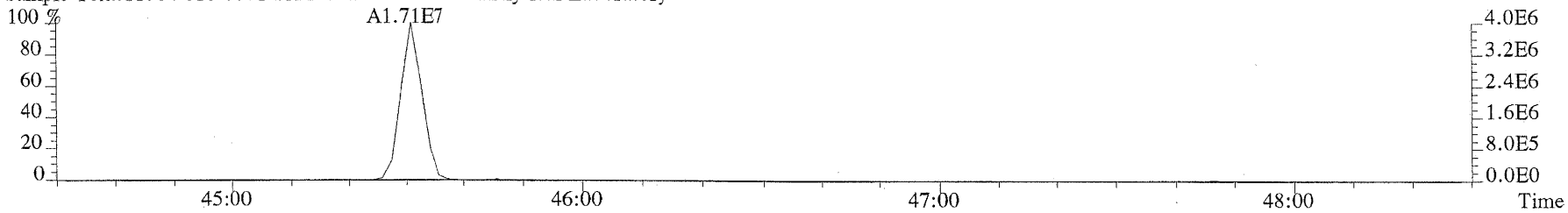
File:23JUL18Z #1-404 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



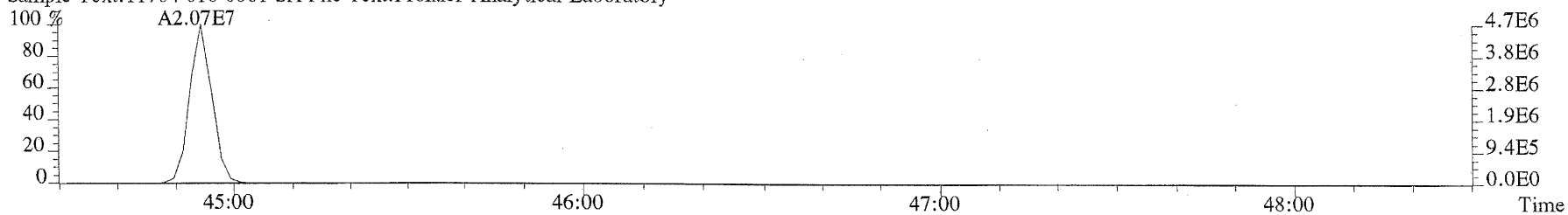
File:23JUL18Z #1-404 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



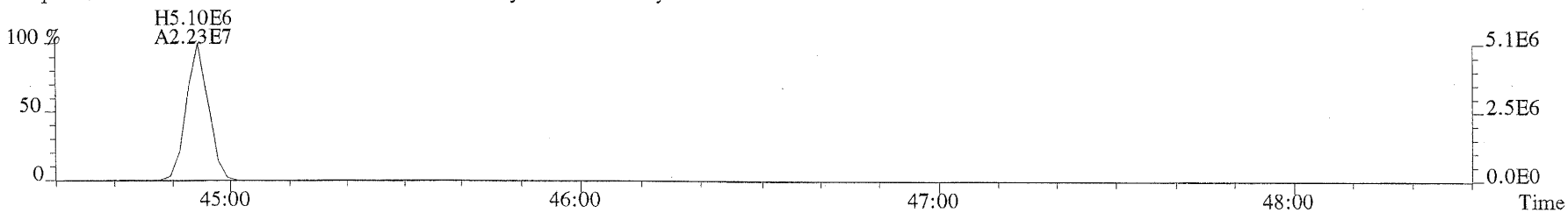
File:23JUL18Z #1-404 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



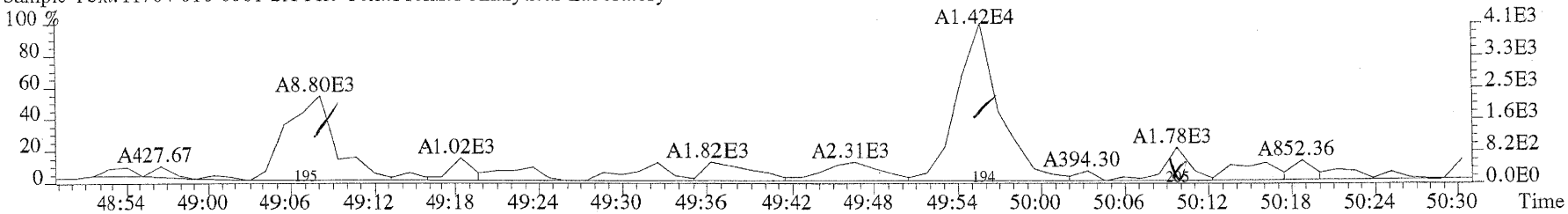
File:23JUL18Z #1-404 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



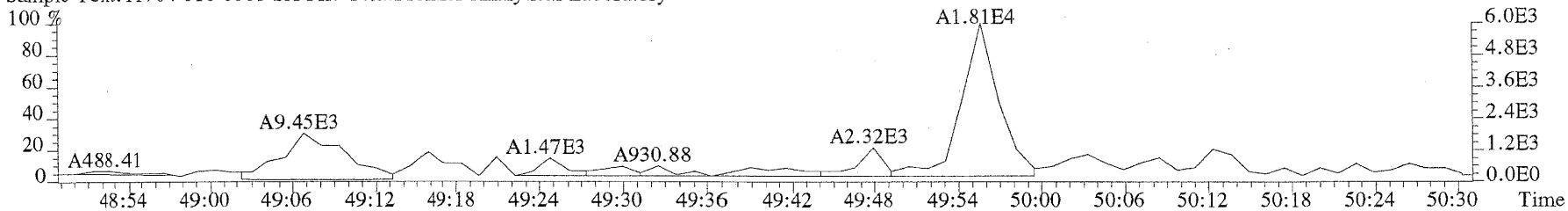
File:23JUL18Z #1-404 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



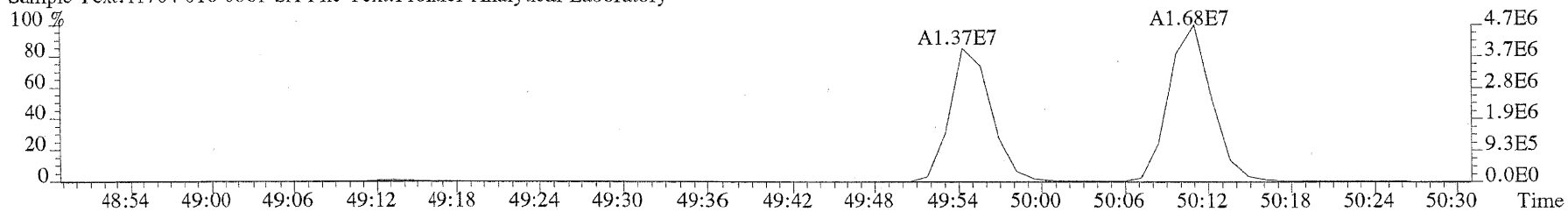
File:23JUL18Z #1-314 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



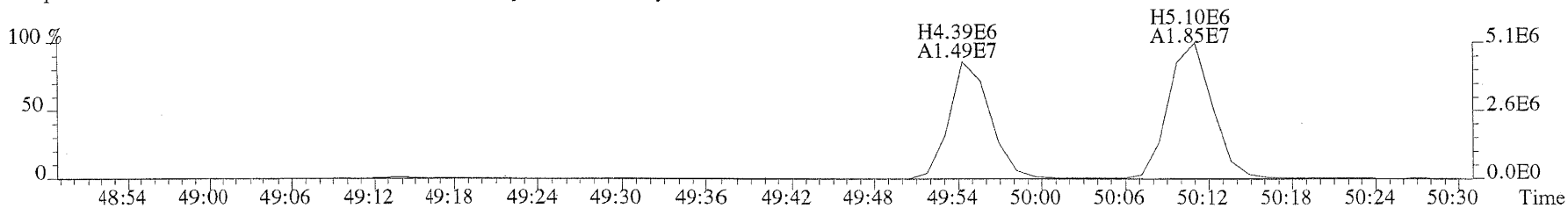
File:23JUL18Z #1-314 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



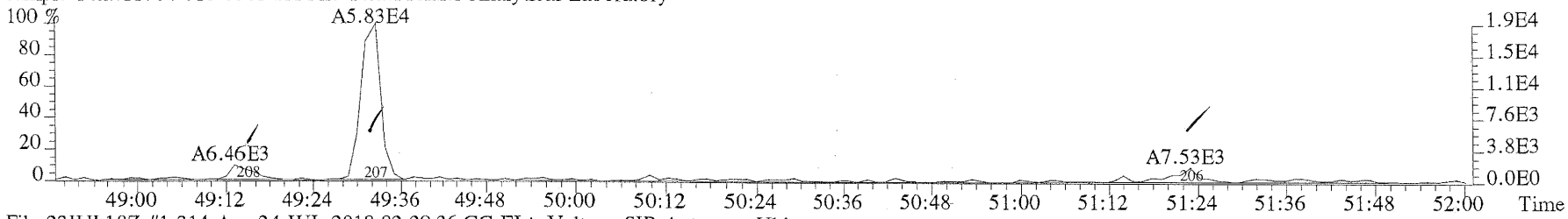
File:23JUL18Z #1-314 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



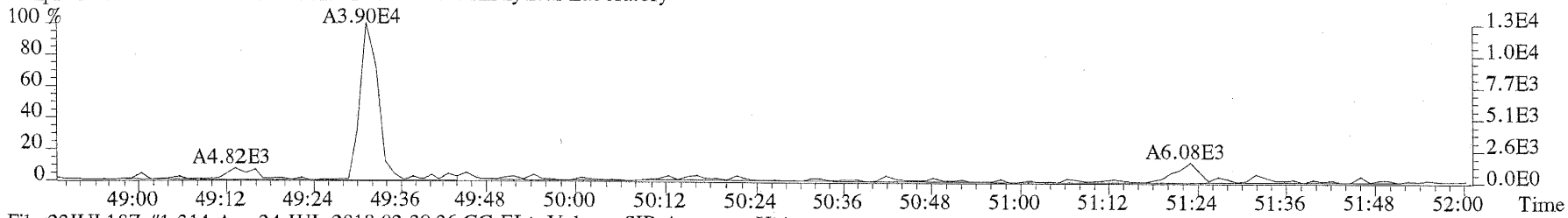
File:23JUL18Z #1-314 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



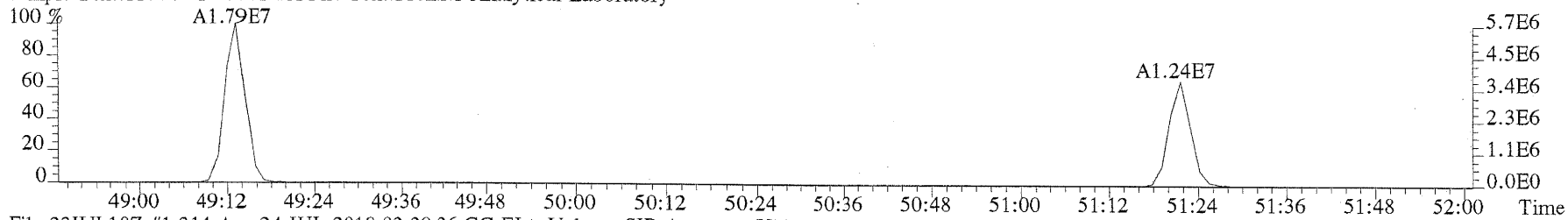
File:23JUL18Z #1-314 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



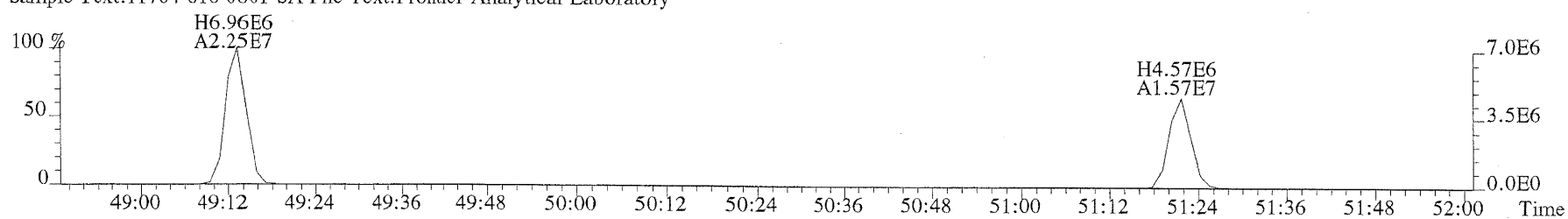
File:23JUL18Z #1-314 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



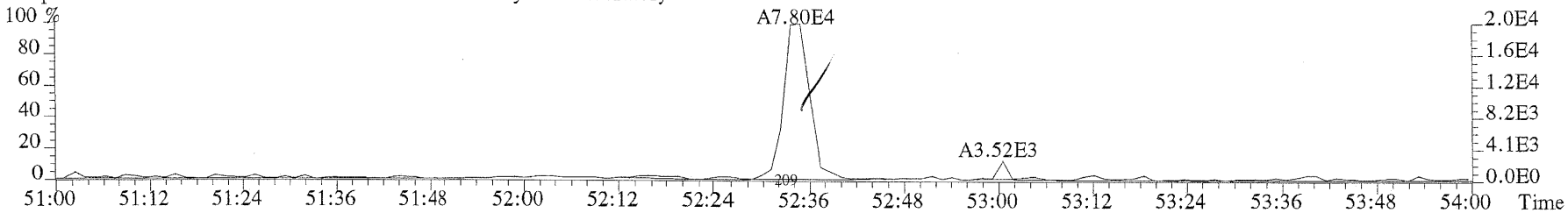
File:23JUL18Z #1-314 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



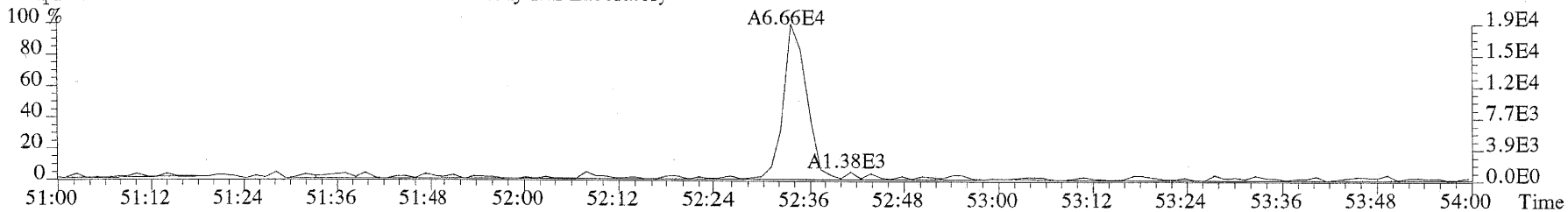
File:23JUL18Z #1-314 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



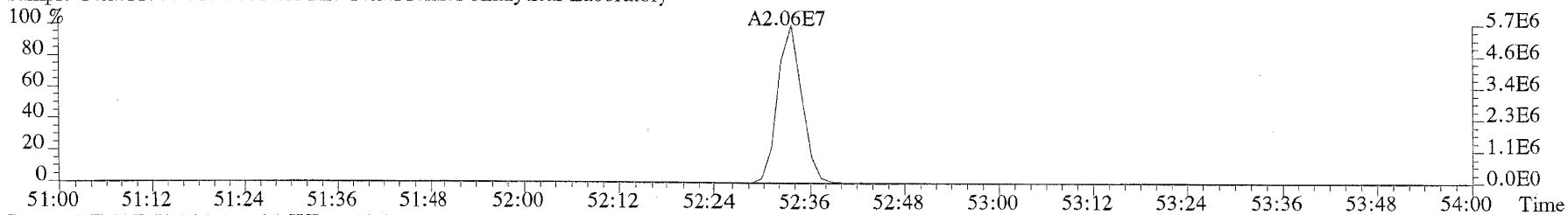
File:23JUL18Z #1-314 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



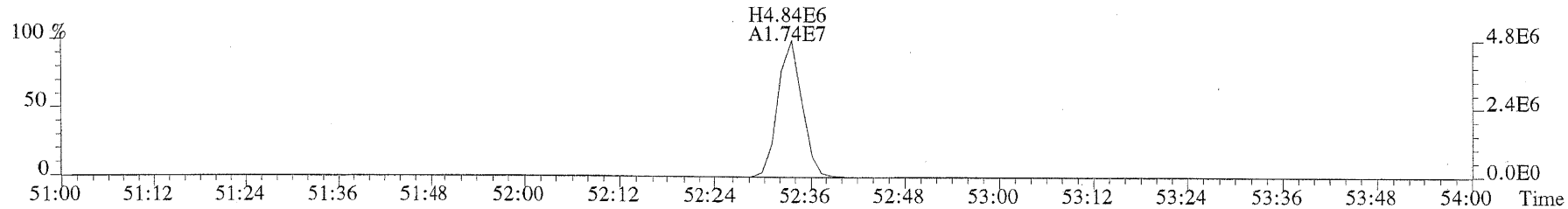
File:23JUL18Z #1-314 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



File:23JUL18Z #1-314 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



File:23JUL18Z #1-314 Acq:24-JUL-2018 02:29:26 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-010-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11704-013-0001-SA Filename: 25JUL18Z Sam:8 Acquired: 25-JUL-18 14:12:37 ICal: DAILY209FAL4-7-25-18
Client ID: LDW-Y1-IN-ENR-CA-S010 ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	* n	NotFnd	1.19	*		1570	1230	3.70			
13C-PCB-1	5.11e+07	3.29 y	14:34	0.80	9230					92.3	1.23e+07	3.70e+06
PCB-2	*	* n	NotFnd	1.10	*		1570	1230	4.03			
PCB-3	*	* n	NotFnd	1.17	*		1570	1230	3.82			
13C-PCB-3	5.36e+07	3.34 y	17:01	0.85	9190					91.9	1.19e+07	3.63e+06
PCB-4	2.57e+05	1.39 y	18:16	1.26	47.1		-	-	*			
PCB-10	*	* n	NotFnd	1.15	*		1130	2250	5.31			
13C-PCB-4	4.35e+07	1.58 y	18:15	0.63	9970					99.7	7.43e+06	4.64e+06
PCB-9	*	* n	NotFnd	1.28	*		1130	2250	4.76			
PCB-7	*	* n	NotFnd	1.30	*		1130	2250	4.68			
PCB-6	1.84e+05	1.58 y	20:34	1.28	25.8		-	-	*			
PCB-8	2.77e+05	1.53 y	20:56	1.28	38.8		-	-	*			
PCB-5	*	* n	NotFnd	1.29	*		1130	2250	4.72			
PCB-14	9.04e+05	1.48 y	22:01	1.23	132		-	-	*			
PCB-11	2.99e+05	1.39 y	23:09	1.20	44.6		-	-	*			
PCB-13	*	* n	NotFnd	1.24	*		1130	2250	4.92			
PCB-12	*	* n	NotFnd	1.25	*		1130	2250	4.86			
PCB-15	1.70e+05	1.57 y	23:48	1.12	22.2		-	-	*			
13C-PCB-15	6.81e+07	1.64 y	23:47	0.95	10400					104	9.51e+06	5.85e+06
PCB-19	7.72e+04	1.15 y	22:09	1.26	24.1		-	-	*			
PCB-30	*	* n	NotFnd	1.70	*		1380	488	4.32			
PCB-18	4.49e+05	1.04 y	23:42	1.21	147		-	-	*			
PCB-17	1.92e+05	1.09 y	23:52	1.29	58.7		-	-	*			
PCB-27	6.12e+04	1.11 y	24:23	1.64	14.7	J	-	-	*			
PCB-24	4.99e+04	1.01 y	24:24	1.68	11.7	J	-	-	*			
PCB-16	8.74e+04	1.19 y	24:53	1.42	24.2		-	-	*			
PCB-32	1.15e+05	0.92 y	24:54	1.44	31.4		-	-	*			
13C-PCB-19	2.53e+07	1.05 y	22:08	0.40	9240					92.4	3.32e+06	3.03e+06
13C-PCB-9	6.88e+07	1.61 y	19:55	-	59.9							
PCB-34	*	* n	NotFnd	1.09	*		1350	940	4.73			
PCB-23	*	* n	NotFnd	1.17	*		1350	940	4.38			
PCB-29	*	* n	NotFnd	1.18	*		1350	940	4.38			
PCB-26	5.46e+05	1.07 y	26:12	1.12	83.3		-	-	*			
PCB-25	2.70e+05	1.16 y	26:21	1.38	33.3		-	-	*			
PCB-31	7.81e+05	1.07 y	26:41	1.10	121		-	-	*			
PCB-28	9.03e+05	1.07 y	26:47	1.34	115		-	-	*			
PCB-20	2.97e+05	1.18 y	27:22	1.19	42.6		-	-	*		Co-elute PCB 21/33	
PCB-21	2.97e+05	1.18 y	27:22	1.19	42.6		-	-	*		Co-elute PCB 20/33	
PCB-33	2.97e+05	1.18 y	27:22	1.19	42.6		-	-	*		Co-elute PCB 20/21	
PCB-22	2.08e+05	1.19 y	27:46	1.17	30.3		-	-	*			
PCB-36	2.62e+06	1.10 y	28:23	1.09	409		-	-	*			
PCB-39	*	* n	NotFnd	1.13	*		1350	940	4.54			
PCB-38	*	* n	NotFnd	1.17	*		1350	940	4.41			
PCB-35	*	* n	NotFnd	1.04	*		1350	940	4.94			
PCB-37	1.15e+05	1.19 y	30:30	1.23	15.9	J	-	-	*			
13C-PCB-37	5.87e+07	1.11 y	30:27	1.68	11500					115	5.87e+06	5.26e+06

PCB-54	*	*	n	NotFnd	1.19	*		580	784	3.57			
PCB-50	*	*	n	NotFnd	0.90	*		580	784	4.75			
PCB-53	2.09e+05	0.75	y	27:24	0.91	66.8		-	-	*			
PCB-51	5.54e+04	0.77	y	27:43	0.93	17.4	J	-	-	*			
PCB-45	9.24e+04	0.83	y	28:08	0.78	34.2		-	-	*			
PCB-46	3.76e+04	0.77	y	28:36	0.77	14.3	J	-	-	*			
PCB-52	1.95e+06	0.80	y	29:02	1.08	525		-	-	*	Co-elute PCB 69		
PCB-69	1.95e+06	0.80	y	29:02	1.08	525		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.19	*		580	784	3.59			
PCB-43	9.11e+05	0.77	y	29:20	0.88	302		-	-	*	Co-elute PCB 49		
PCB-49	9.11e+05	0.77	y	29:20	0.88	302		-	-	*	Co-elute PCB 43		
PCB-47	3.11e+05	0.82	y	29:31	1.15	78.4		-	-	*			
PCB-48	1.38e+05	0.83	y	29:38	1.06	37.7		-	-	*	Co-elute PCB 75		
PCB-75	1.38e+05	0.83	y	29:38	1.06	37.7		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.09	*		580	784	3.89			
PCB-62	*	*	n	NotFnd	1.15	*		580	784	3.71			
PCB-44	6.12e+05	0.81	y	30:16	0.82	218		-	-	*			
PCB-42	2.39e+05	0.82	y	30:30	1.06	65.1		-	-	*	Co-elute PCB 59		
PCB-59	2.39e+05	0.82	y	30:30	1.06	65.1		-	-	*	Co-elute PCB 42		
PCB-72	5.52e+05	0.84	y	31:02	1.15	140		-	-	*	Co-elute PCB 41/71/64		
PCB-41	5.52e+05	0.84	y	31:02	1.15	140		-	-	*	Co-elute PCB 72/71/64		
PCB-71	5.52e+05	0.84	y	31:02	1.15	140		-	-	*	Co-elute PCB 72/41/64		
PCB-64	5.52e+05	0.84	y	31:02	1.15	140		-	-	*	Co-elute PCB 72/41/71		
PCB-68	4.68e+04	0.82	y	31:18	1.25	10.8	J	-	-	*			
PCB-40	7.47e+04	0.85	y	31:29	0.71	30.7		-	-	*			
PCB-57	*	*	n	NotFnd	1.13	*		580	784	3.76			
PCB-67	3.61e+04	0.82	y	32:09	1.12	9.39	J	-	-	*			
PCB-58	*	*	n	NotFnd	1.18	*		580	784	3.60			
PCB-63	*	*	n	NotFnd	1.14	*		580	784	3.75			
PCB-74	2.51e+05	0.86	y	32:41	1.21	60.2		-	-	*			
PCB-61	6.10e+05	0.89	y	32:52	1.23	144		-	-	*	Co-elute PCB 70		
PCB-70	6.10e+05	0.89	y	32:52	1.23	144		-	-	*	Co-elute PCB 61		
PCB-76	5.32e+05	0.77	y	33:04	1.21	128		-	-	*	Co-elute PCB 66		
PCB-66	5.32e+05	0.77	y	33:04	1.21	128		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.30	*		580	784	3.28			
PCB-55	1.17e+05	0.87	y	33:37	1.20	28.4		-	-	*			
13C-PCB-54	3.44e+07	0.81	y	25:40	1.11	10200					102	3.63e+06	4.37e+06
PCB-104	2.23e+06	1.55	y	30:07	1.35	1090		-	-	*			
PCB-96	*	*	n	NotFnd	1.22	*		260	352	3.80			
PCB-103	2.46e+04	1.46	y	31:50	1.05	15.6	J	-	-	*			
PCB-100	*	*	n	NotFnd	1.07	*		260	352	4.33			
PCB-94	*	*	n	NotFnd	0.90	*		260	352	5.16			
PCB-98	*	*	n	NotFnd	0.54	*		260	352	8.58	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.54	*		260	352	8.58	Co-elute PCB 98		
PCB-95	8.73e+05	1.61	y	33:08	1.08	535		-	-	*			
PCB-93	*	*	n	NotFnd	0.98	*		260	352	4.71			
PCB-88	*	*	n	NotFnd	1.06	*		260	352	4.39	Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	1.06	*		260	352	4.39	Co-elute PCB 88		
PCB-121	4.58e+06	1.56	y	33:35	1.10	2760		-	-	*			
13C-PCB-104	1.51e+07	1.64	y	30:06	0.50	9930					99.3	2.07e+06	1.24e+06
13C-PCB-28	6.79e+07	1.09	y	26:46	1.97	11400					114	7.61e+06	6.96e+06
13C-PCB-52	3.03e+07	0.80	y	29:01	-	53.9							

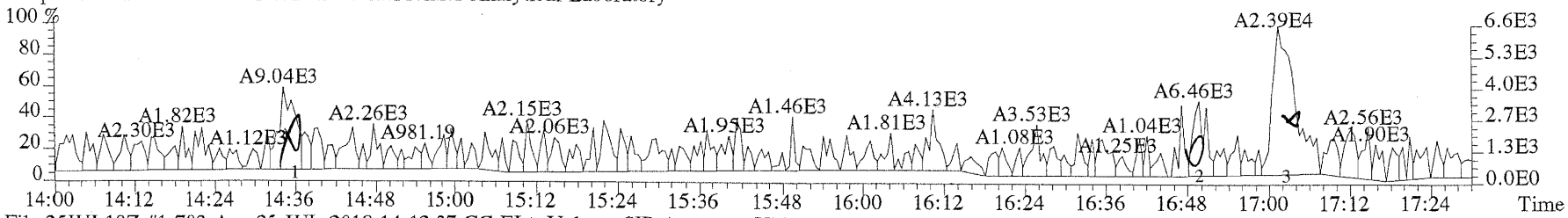
PCB-56	2.85e+05	0.80	y	34:03	1.08	58.8		-	-	*		Co-elute PCB 60	
PCB-60	2.85e+05	0.80	y	34:03	1.08	58.8		-	-	*		Co-elute PCB 56	
PCB-79	2.80e+04	0.78	y	35:04	1.14	5.49	J	-	-	*			
PCB-78	8.23e+06	0.81	y	35:45	1.09	1670		-	-	*			
PCB-81	9.81e+04	0.86	y	36:14	1.14	19.1	J	-	-	*			
13C-PCB-81	4.49e+07	0.81	y	36:13	1.57	11700					117	3.58e+06	4.47e+06
PCB-77	5.42e+04	0.73	y	36:49	1.11	10.9	J	-	-	*			
13C-PCB-77	4.49e+07	0.83	y	36:47	1.61	11400					114	3.58e+06	4.41e+06
PCB-155	5.12e+06	1.30	y	34:18	1.24	2450		-	-	*			
PCB-150	*	*	n	NotFnd	1.13	*		216	212	2.61			
PCB-152	*	*	n	NotFnd	1.06	*		216	212	2.78			
PCB-145	*	*	n	NotFnd	1.10	*		216	212	2.67			
PCB-136	1.22e+05	1.40	y	36:40	1.06	68.4		-	-	*			
PCB-148	*	*	n	NotFnd	0.84	*		216	212	3.51			
PCB-154	2.67e+04	1.12	y	37:14	0.97	16.3	J	-	-	*			
13C-PCB-155	1.69e+07	1.30	y	34:16	0.67	10300					103	2.05e+06	1.59e+06
13C-PCB-111	2.79e+07	1.60	y	36:22	1.16	9870					98.7	3.33e+06	2.15e+06
13C-PCB-101	2.45e+07	1.62	y	34:43	-	51.7							
PCB-84	7.44e+05	1.66	y	34:22	0.61	293		-	-	*		Co-elute PCB 92	
PCB-92	7.44e+05	1.66	y	34:22	0.61	293		-	-	*		Co-elute PCB 84	
PCB-89	*	*	n	NotFnd	0.58	*		420	480	4.80			
PCB-90	1.36e+06	1.60	y	34:45	0.68	480		-	-	*		Co-elute PCB 101	
PCB-101	1.36e+06	1.60	y	34:45	0.68	480		-	-	*		Co-elute PCB 90	
PCB-113	*	*	n	NotFnd	0.77	*		420	480	3.64			
PCB-99	6.47e+05	1.55	y	35:04	0.75	208		-	-	*			
PCB-119	5.60e+04	1.54	y	35:29	0.81	16.5	J	-	-	*			
PCB-83	8.52e+04	1.59	y	35:38	0.69	29.8		-	-	*		Co-elute PCB 112	
PCB-112	8.52e+04	1.59	y	35:38	0.69	29.8		-	-	*		Co-elute PCB 83	
PCB-109	*	*	n	NotFnd	0.82	*		420	480	3.40			
PCB-97	3.50e+05	1.68	y	35:58	0.73	116		-	-	*			
PCB-86	*	*	n	NotFnd	0.70	*		420	480	3.97			
PCB-125	5.48e+05	1.54	y	36:14	0.72	182		-	-	*		Co-elute PCB 87/117	
PCB-87	5.48e+05	1.54	y	36:14	0.72	182		-	-	*		Co-elute PCB 125/117	
PCB-117	5.48e+05	1.54	y	36:14	0.72	182		-	-	*		Co-elute PCB 125/87	
PCB-111	3.10e+04	1.76	y	36:25	0.99	7.48	J	-	-	*		Co-elute PCB 115	
PCB-115	3.10e+04	1.76	y	36:25	0.99	7.48	J	-	-	*		Co-elute PCB 111	
PCB-85	1.93e+05	1.47	y	36:30	0.71	65.3		-	-	*		Co-elute PCB 116	
PCB-116	1.93e+05	1.47	y	36:30	0.71	65.3		-	-	*		Co-elute PCB 85	
PCB-120	*	*	n	NotFnd	0.81	*		420	480	3.43			
PCB-110	1.66e+06	1.58	y	36:52	0.96	415		-	-	*			
PCB-82	9.50e+04	1.65	y	37:28	0.50	45.7		-	-	*			
PCB-124	6.23e+04	1.71	y	38:08	0.91	16.5	J	-	-	*			
PCB-108	1.12e+05	1.43	y	38:18	1.07	25.0		-	-	*		Co-elute PCB 107	
PCB-107	1.12e+05	1.43	y	38:18	1.07	25.0		-	-	*		Co-elute PCB 108	
PCB-123	3.50e+04	1.50	y	38:27	1.23	6.95	J	-	-	*			
13C-PCB-123	4.08e+07	1.60	y	38:24	1.40	11300					113	4.96e+06	3.16e+06
PCB-118	1.16e+06	1.45	y	38:36	1.03	258		-	-	*		Co-elute PCB 106	
PCB-106	1.16e+06	1.45	y	38:36	1.03	258		-	-	*		Co-elute PCB 118	
13C-PCB-118	4.35e+07	1.61	y	38:36	1.53	11000					110	5.18e+06	3.16e+06
PCB-114	1.82e+04	1.35	y	39:14	1.07	4.07	J	-	-	*			
13C-PCB-114	4.19e+07	1.61	y	39:12	1.46	11000					110	4.97e+06	3.12e+06
PCB-122	2.65e+04	1.42	y	39:19	1.10	5.79	J	-	-	*			
PCB-105	3.55e+05	1.69	y	40:01	1.08	81.7		-	-	*			
13C-PCB-105	4.03e+07	1.61	y	40:01	1.44	10800					108	4.78e+06	2.90e+06

PCB-127	*	*	n	NotFnd	0.99	*		456	354	2.54				
PCB-126	*	*	n	NotFnd	1.12	*		456	354	2.60				
13C-PCB-126	3.99e+07	1.62	y	42:10	1.35	11400					114	4.32e+06	2.67e+06	
PCB-151	2.30e+05	1.23	y	37:51	0.85	95.3		-	-	*				
PCB-135	1.68e+05	1.23	y	38:03	0.82	71.7		-	-	*				
PCB-144	3.73e+04	1.32	y	38:11	0.93	14.1	J	-	-	*				
PCB-147	3.05e+04	1.25	y	38:18	0.92	11.6	J	-	-	*				
PCB-139	8.41e+05	1.32	y	38:31	0.98	303		-	-	*		Co-elute PCB 149		
PCB-149	8.41e+05	1.32	y	38:31	0.98	303		-	-	*		Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	0.95	*		596	536	5.18				
PCB-143	6.02e+04	1.08	y	39:07	0.90	23.6		-	-	*		Co-elute PCB 134		
PCB-134	6.02e+04	1.08	y	39:07	0.90	23.6		-	-	*		Co-elute PCB 143		
PCB-131	3.53e+04	1.29	y	39:25	0.90	13.7	J	-	-	*		Co-elute PCB 133		
PCB-133	3.53e+04	1.29	y	39:25	0.90	13.7	J	-	-	*		Co-elute PCB 131		
PCB-142	9.58e+06	1.26	y	39:33	0.77	4370		-	-	*				
PCB-165	2.14e+05	1.12	y	39:46	1.05	71.8		-	-	*		Co-elute PCB 146		
PCB-146	2.14e+05	1.12	y	39:46	1.05	71.8		-	-	*		Co-elute PCB 165		
PCB-161	3.09e+05	1.31	y	40:01	1.00	109		-	-	*		Co-elute PCB 132		
PCB-132	3.09e+05	1.31	y	40:01	1.00	109		-	-	*		Co-elute PCB 161		
PCB-153	9.99e+05	1.26	y	40:10	1.01	348		-	-	*				
PCB-168	*	*	n	NotFnd	1.15	*		596	536	4.28				
PCB-141	1.26e+05	1.31	y	40:52	0.89	49.8		-	-	*				
PCB-137	3.80e+04	1.09	y	41:14	0.90	14.8	J	-	-	*				
PCB-130	5.71e+04	1.34	y	41:19	0.76	26.5		-	-	*				
PCB-138	8.96e+05	1.32	y	41:40	1.17	269		-	-	*		Co-elute PCB 163/164		
PCB-163	8.96e+05	1.32	y	41:40	1.17	269		-	-	*		Co-elute PCB 138/164		
PCB-164	8.96e+05	1.32	y	41:40	1.17	269		-	-	*		Co-elute PCB 138/163		
PCB-158	1.17e+05	1.16	y	41:53	1.18	35.0		-	-	*		Co-elute PCB 160		
PCB-160	1.17e+05	1.16	y	41:53	1.18	35.0		-	-	*		Co-elute PCB 158		
PCB-129	3.77e+04	1.40	y	42:06	0.77	17.2	J	-	-	*				
PCB-166	*	*	n	NotFnd	1.08	*		596	536	4.57				
PCB-159	*	*	n	NotFnd	1.19	*		596	536	4.14				
PCB-128	1.35e+05	1.25	y	43:09	0.98	48.5		-	-	*		Co-elute PCB 162		
PCB-162	1.35e+05	1.25	y	43:09	0.98	48.5		-	-	*		Co-elute PCB 128		
PCB-167	3.56e+04	1.27	y	43:32	1.05	11.7	J	-	-	*				
13C-PCB-167	2.89e+07	1.28	y	43:30	1.12	9930					99.3	3.21e+06	2.50e+06	
PCB-156	6.49e+04	1.12	y	44:46	1.11	21.0		-	-	*				
13C-PCB-156	2.79e+07	1.31	y	44:44	1.07	10000					100	3.14e+06	2.43e+06	
PCB-157	*	*	n	NotFnd	1.14	*		596	536	4.47				
13C-PCB-157	2.86e+07	1.33	y	44:59	1.12	9890					98.9	3.17e+06	2.37e+06	
PCB-169	*	*	n	NotFnd	1.07	*		596	536	4.31				
13C-PCB-169	2.83e+07	1.30	y	46:51	1.08	10100					101	3.48e+06	2.66e+06	

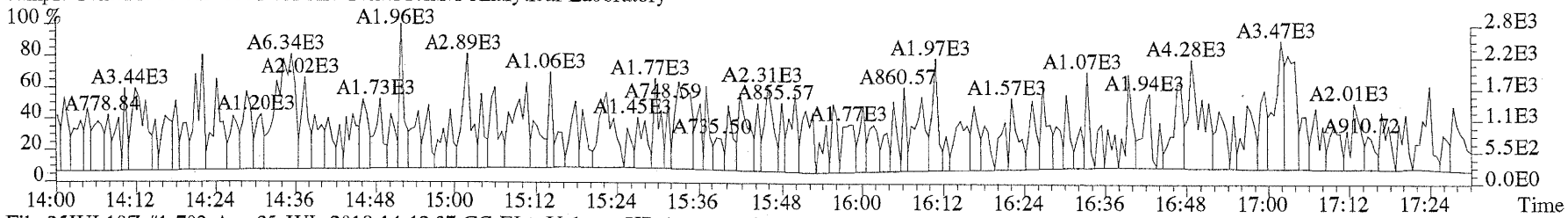
PCB-188	*	*	n	NotFnd	1.21	*		376	240	3.18			
13C-PCB-188	1.95e+07	1.09	y	39:45	0.80	9400					94.0	2.09e+06	1.92e+06
PCB-184	7.20e+06	1.07	y	40:13	1.25	3050		-	-	*			
PCB-179	4.70e+04	1.08	y	40:56	1.15	21.6		-	-	*			
PCB-176	*	*	n	NotFnd	1.14	*		376	240	3.06			
PCB-186	*	*	n	NotFnd	1.19	*		376	240	2.92			
PCB-178	*	*	n	NotFnd	0.83	*		376	240	4.21			
PCB-175	*	*	n	NotFnd	0.88	*		376	240	3.94			
PCB-187	1.07e+05	1.06	y	42:54	0.99	57.0		-	-	*		Co-elute PCB 182	
PCB-182	1.07e+05	1.06	y	42:54	0.99	57.0		-	-	*		Co-elute PCB 187	
PCB-183	5.89e+04	1.15	y	43:14	0.93	33.4		-	-	*			
PCB-185	*	*	n	NotFnd	0.88	*		376	240	3.93			
PCB-174	7.26e+04	1.17	y	44:10	0.89	43.2		-	-	*			
PCB-181	*	*	n	NotFnd	0.90	*		376	240	3.85			
PCB-177	3.98e+04	1.05	y	44:28	0.79	26.6		-	-	*			
PCB-171	*	*	n	NotFnd	0.85	*		376	240	4.08			
PCB-173	*	*	n	NotFnd	0.80	*		376	240	4.34			
PCB-172	1.58e+05	1.10	y	45:29	0.80	105		-	-	*			
PCB-192	4.98e+06	1.06	y	45:42	1.11	2370		-	-	*			
PCB-180	1.52e+05	1.03	y	45:52	1.09	73.5		-	-	*			
PCB-193	*	*	n	NotFnd	1.16	*		376	240	3.00			
PCB-191	*	*	n	NotFnd	1.08	*		376	240	3.22			
PCB-170	4.81e+04	0.95	y	47:09	0.77	32.9		-	-	*			
PCB-190	*	*	n	NotFnd	1.09	*		376	240	3.20			
PCB-189	*	*	n	NotFnd	1.17	*		376	240	2.65			
13C-PCB-189	1.83e+07	1.08	y	48:30	0.73	9670					96.7	2.60e+06	2.38e+06
PCB-202	*	*	n	NotFnd	1.03	*		148	192	3.62			
PCB-201	*	*	n	NotFnd	1.02	*		148	192	3.66			
PCB-204	7.04e+06	0.92	y	45:29	1.00	6300		-	-	*			
PCB-197	4.34e+04	0.90	y	45:45	1.08	35.9		-	-	*			
PCB-200	*	*	n	NotFnd	1.01	*		148	192	3.72			
PCB-198	*	*	n	NotFnd	0.74	*		148	192	5.04			
PCB-199	*	*	n	NotFnd	0.84	*		148	192	4.48			
PCB-203	1.53e+04	0.95	y	48:00	0.87	15.8	J	-	-	*		Co-elute PCB 196	
PCB-196	1.53e+04	0.95	y	48:00	0.87	15.8	J	-	-	*		Co-elute PCB 203	
13C-PCB-202	1.12e+07	0.94	y	44:53	0.44	9840					98.4	1.11e+06	1.16e+06
13C-PCB-178	1.45e+07	1.09	y	42:25	0.60	9270					92.7	1.55e+06	1.45e+06
13C-PCB-138	2.59e+07	1.30	y	41:38	-	53.5							
PCB-195	*	*	n	NotFnd	0.71	*		388	1220	4.91			
PCB-194	3.41e+04	0.79	y	49:54	0.79	11.3	J	-	-	*			
PCB-205	*	*	n	NotFnd	1.07	*		388	1220	3.24			
13C-PCB-205	3.83e+07	0.90	y	50:08	1.23	10300					103	5.55e+06	6.03e+06
PCB-208	*	*	n	NotFnd	1.01	*		336	468	2.19			
13C-PCB-208	2.90e+07	0.81	y	49:12	0.97	9890					98.9	4.07e+06	5.01e+06
PCB-207	*	*	n	NotFnd	0.98	*		-	-	*			
PCB-206	*	*	n	NotFnd	1.00	*		336	468	3.01			
13C-PCB-206	2.31e+07	0.80	y	51:20	0.88	8710					87.1	2.96e+06	3.71e+06
PCB-209	8.18e+04	1.19	y	52:31	1.12	29.5		-	-	*			
13C-PCB-209	2.48e+07	1.23	y	52:30	0.97	8490					84.9	3.67e+06	3.04e+06
13C-PCB-194	3.02e+07	0.92	y	49:53	-	55.6							

Analyst: _____ Date: 8/20/18

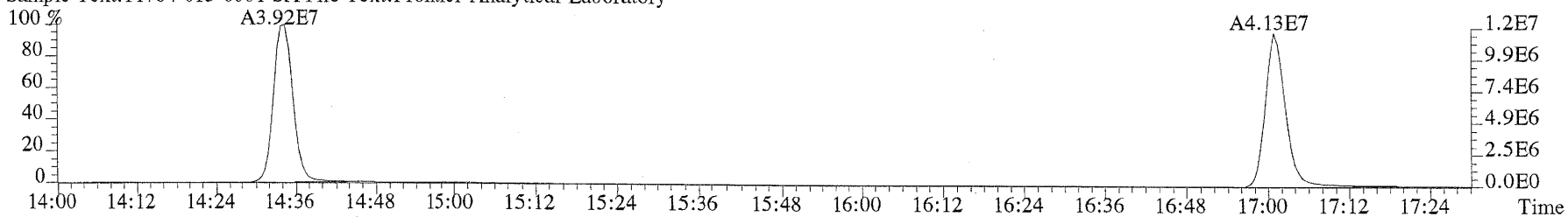
File:25JUL18Z #1-783 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



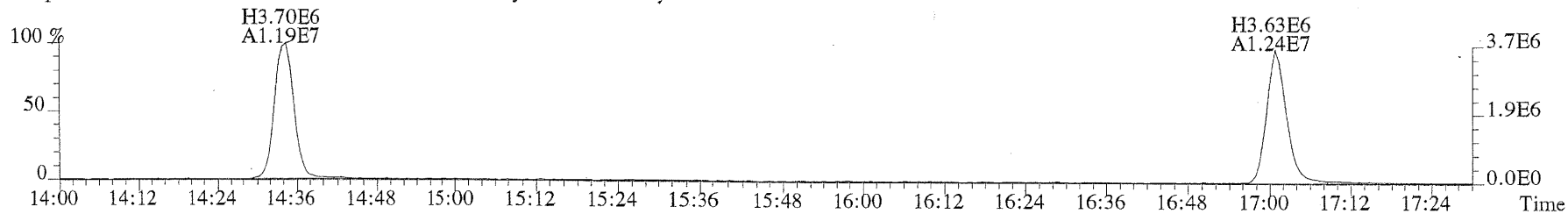
File:25JUL18Z #1-783 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



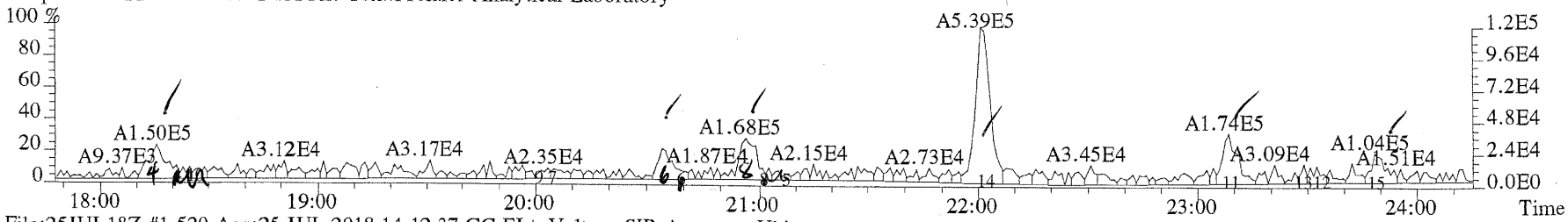
File:25JUL18Z #1-783 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



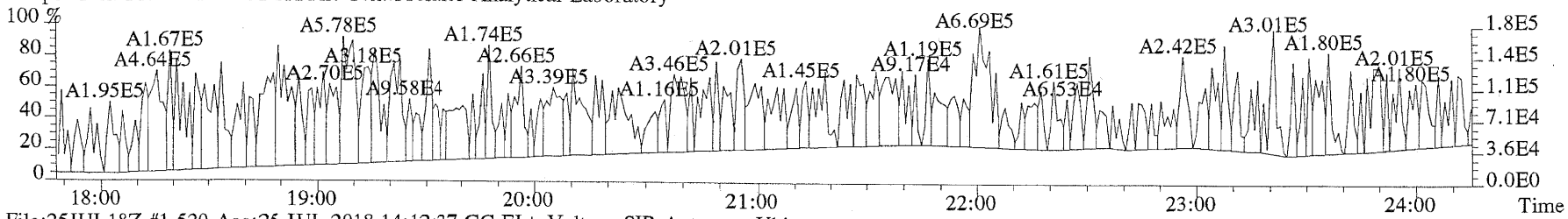
File:25JUL18Z #1-783 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



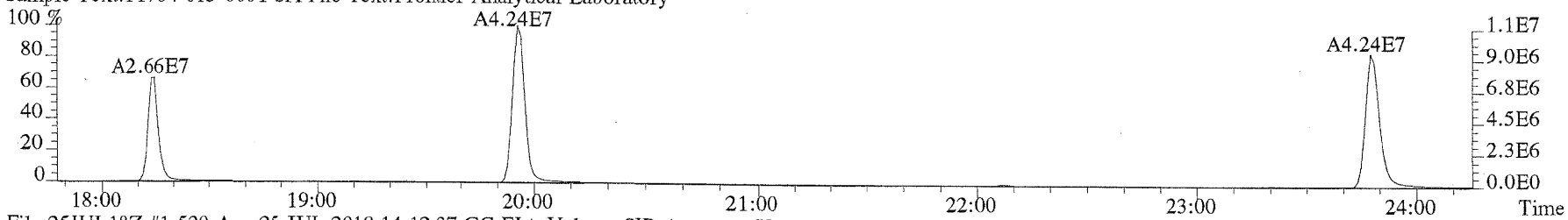
File:25JUL18Z #1-520 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



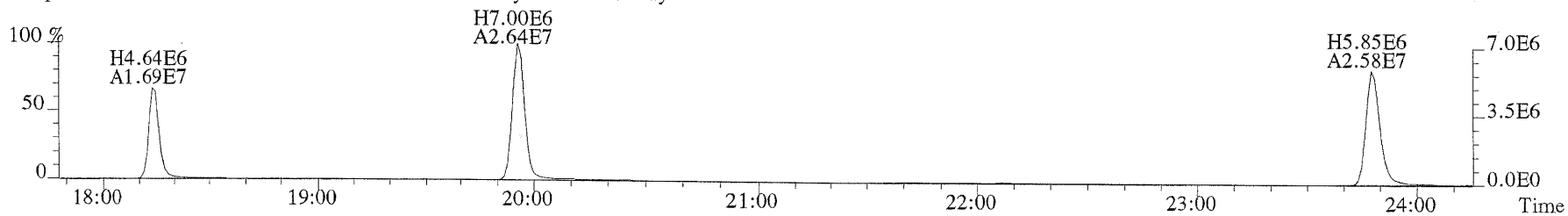
File:25JUL18Z #1-520 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



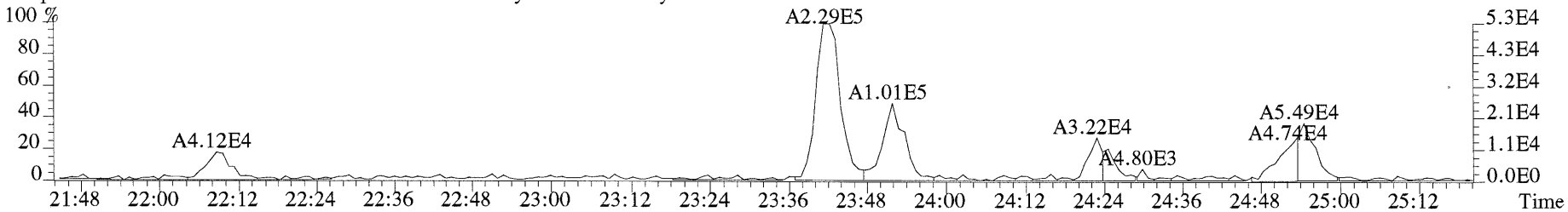
File:25JUL18Z #1-520 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



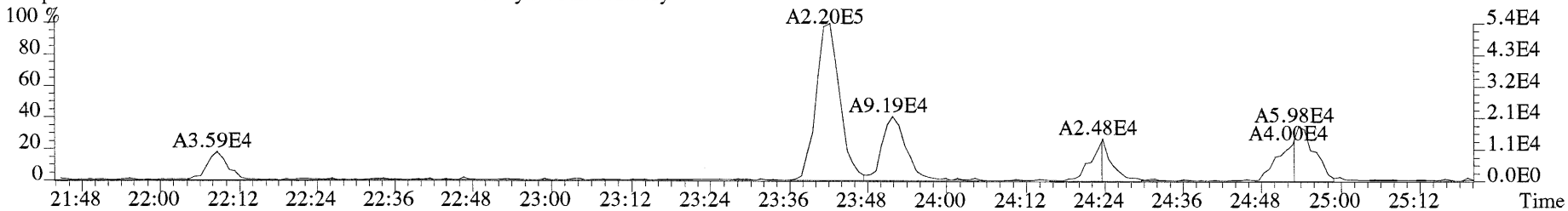
File:25JUL18Z #1-520 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



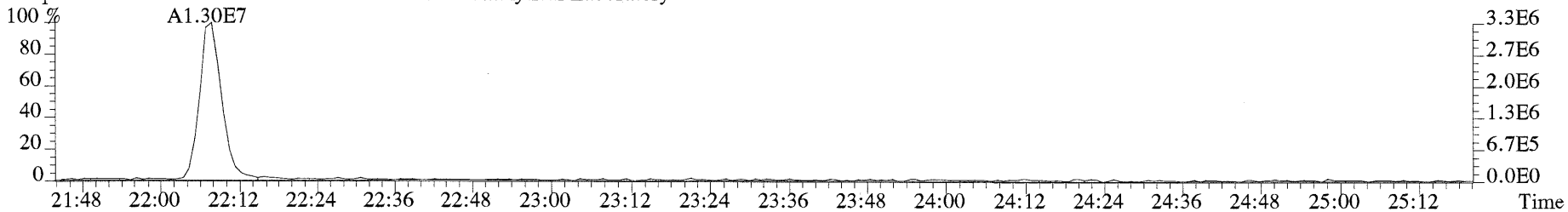
File:25JUL18Z #1-520 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



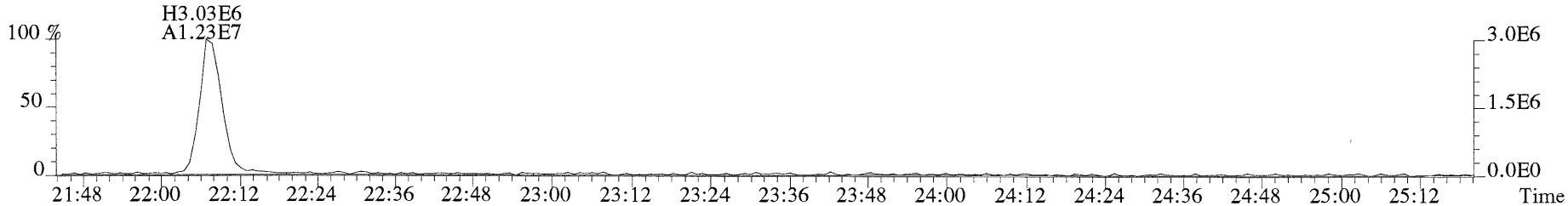
File:25JUL18Z #1-520 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



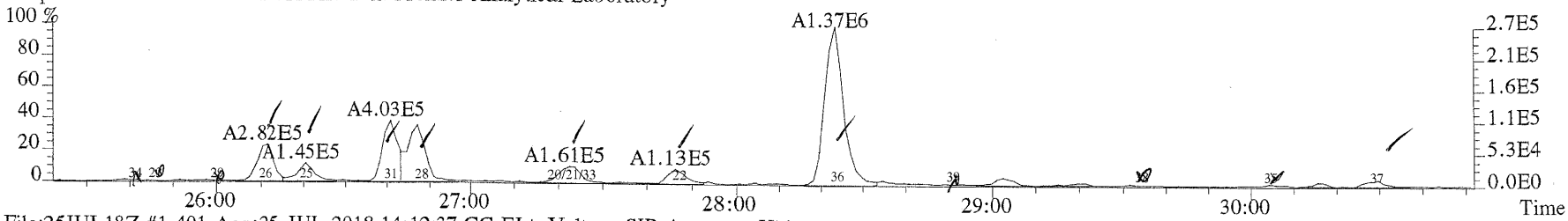
File:25JUL18Z #1-520 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



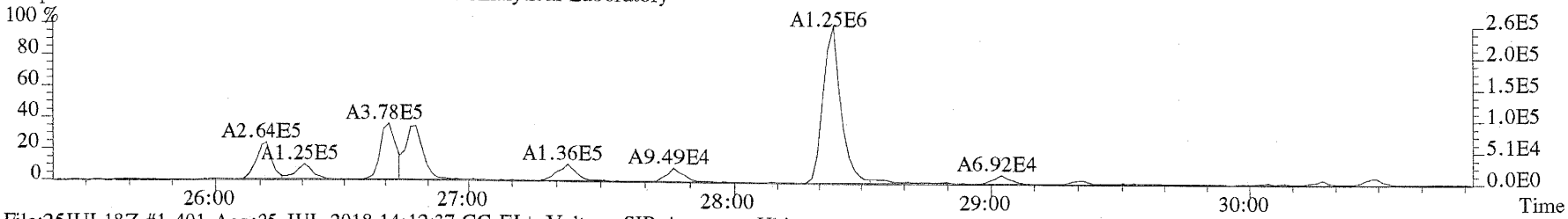
File:25JUL18Z #1-520 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



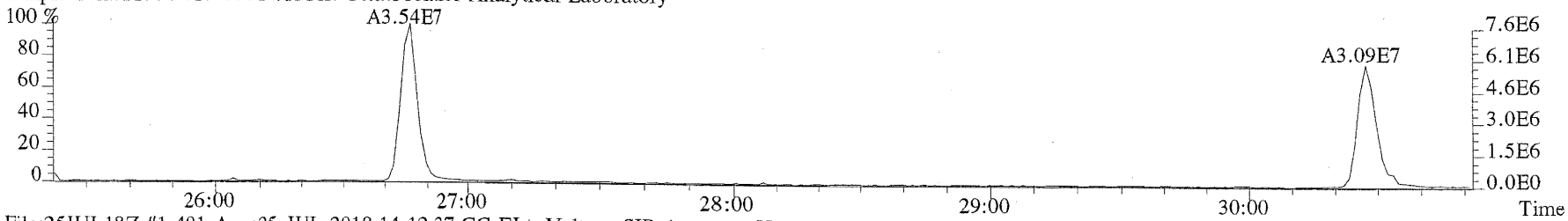
File:25JUL18Z #1-401 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



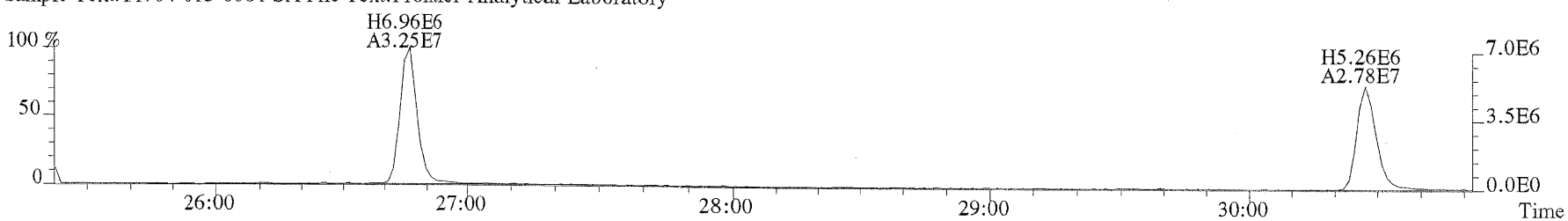
File:25JUL18Z #1-401 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



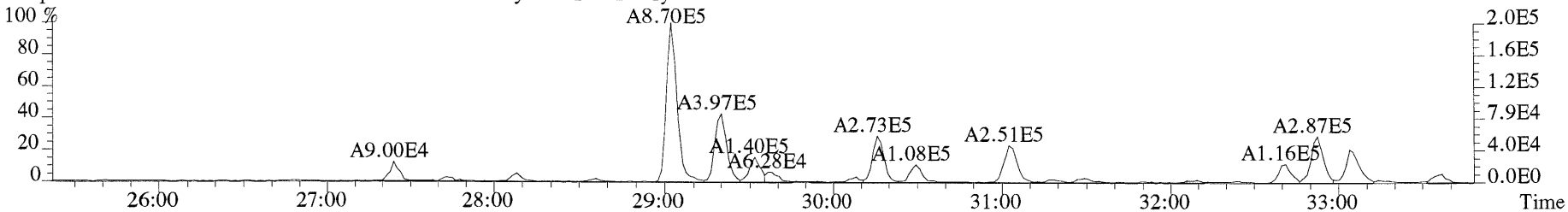
File:25JUL18Z #1-401 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



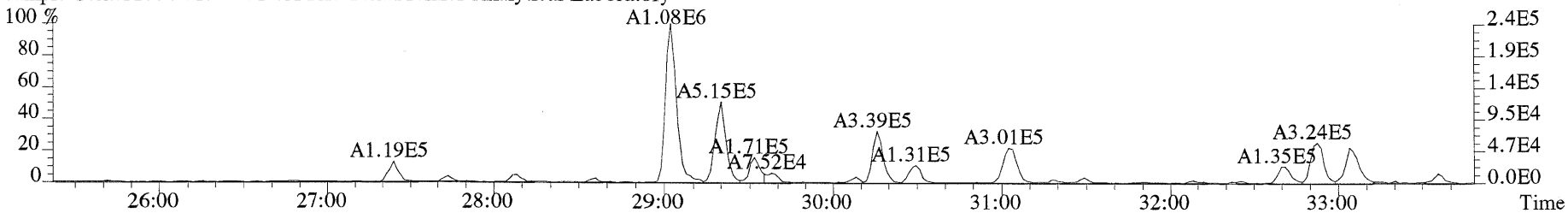
File:25JUL18Z #1-401 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



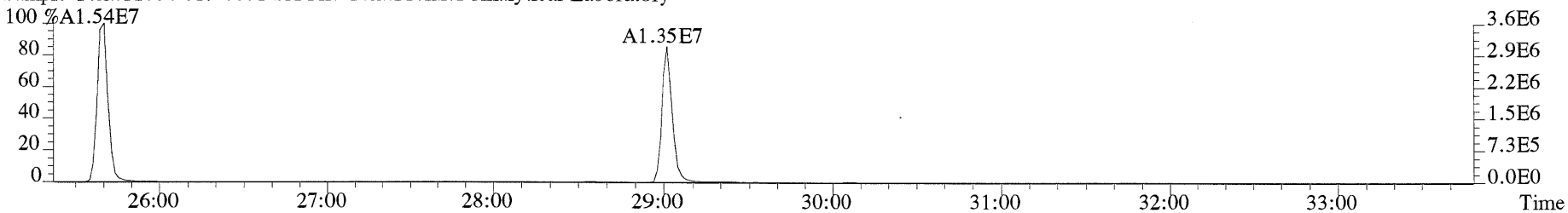
File:25JUL18Z #1-401 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



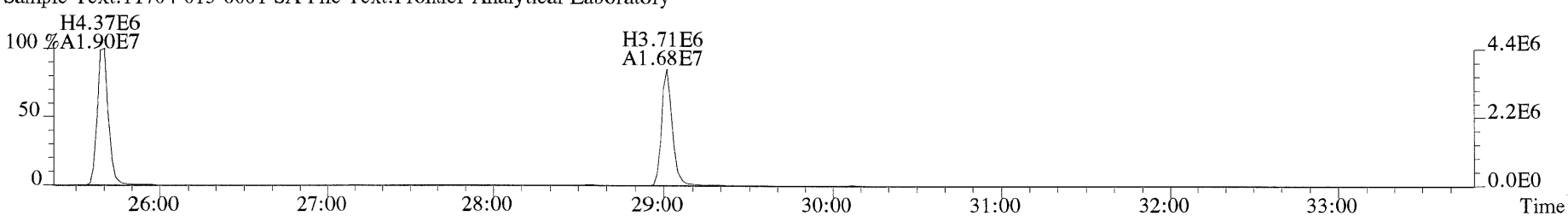
File:25JUL18Z #1-401 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



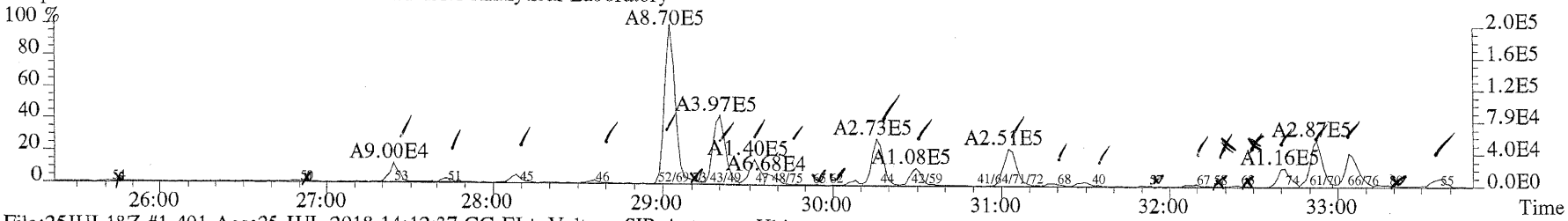
File:25JUL18Z #1-401 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-401 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-401 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



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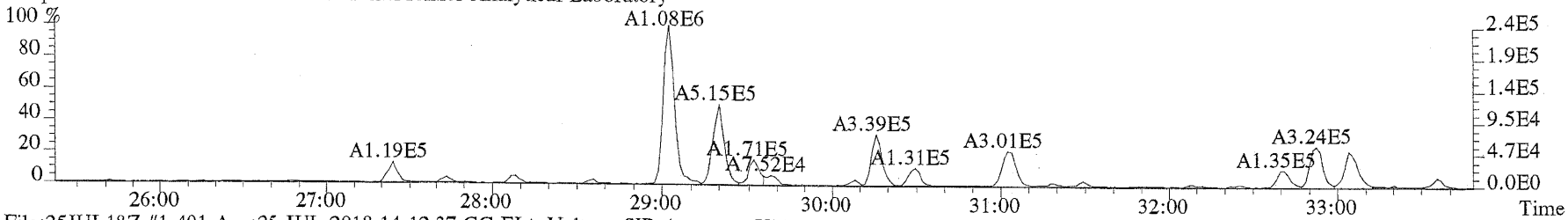
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



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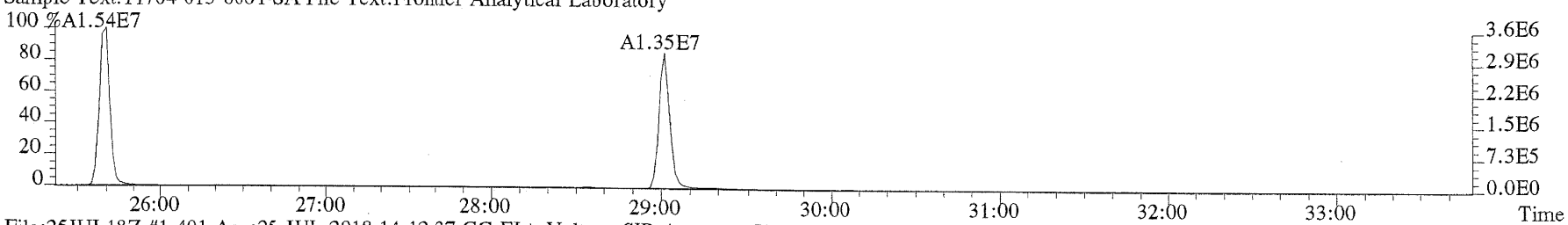
301.9626 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



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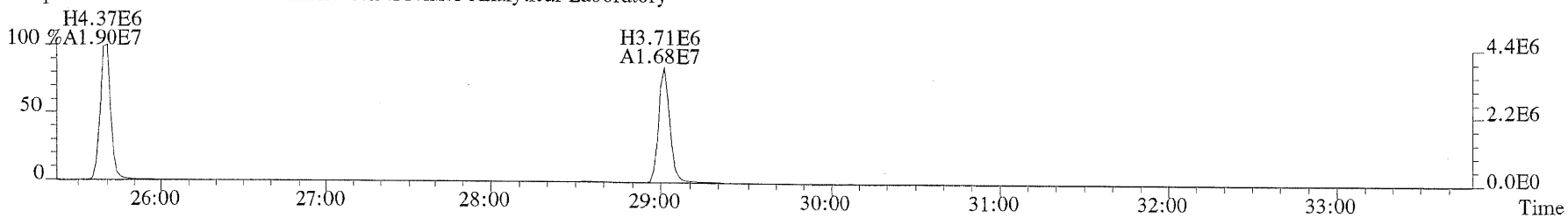
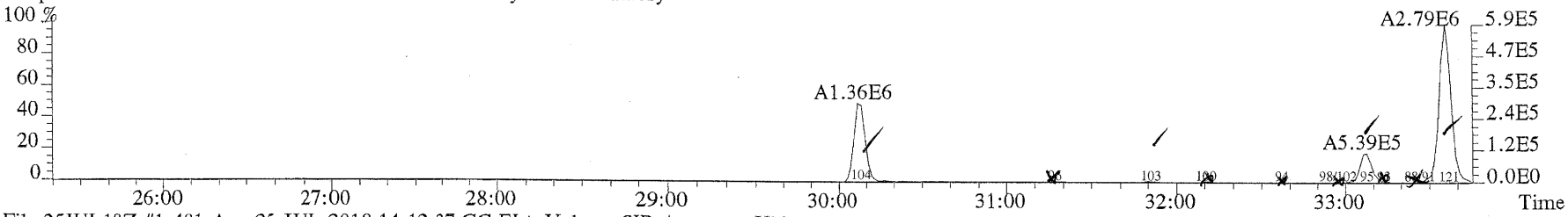
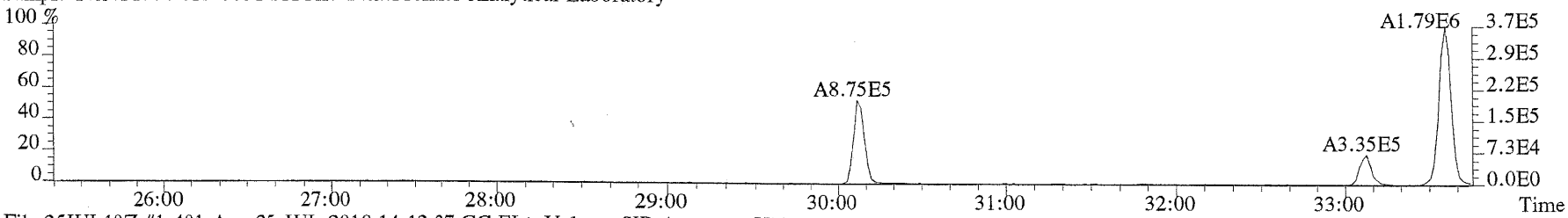
303.9597 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



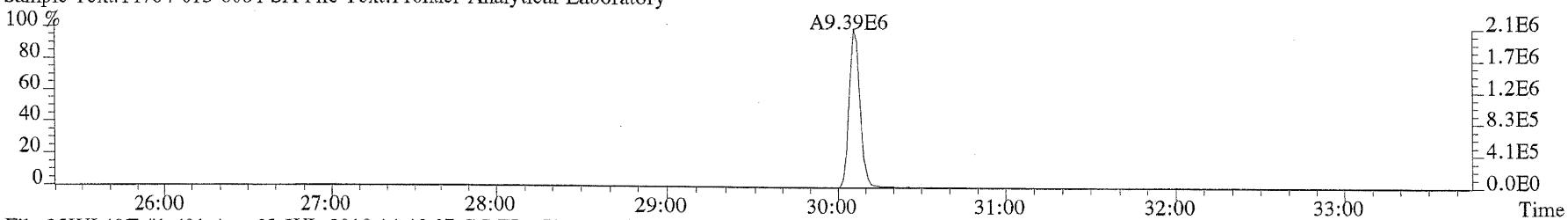
File:25JUL18Z #1-401 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-401 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-401 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



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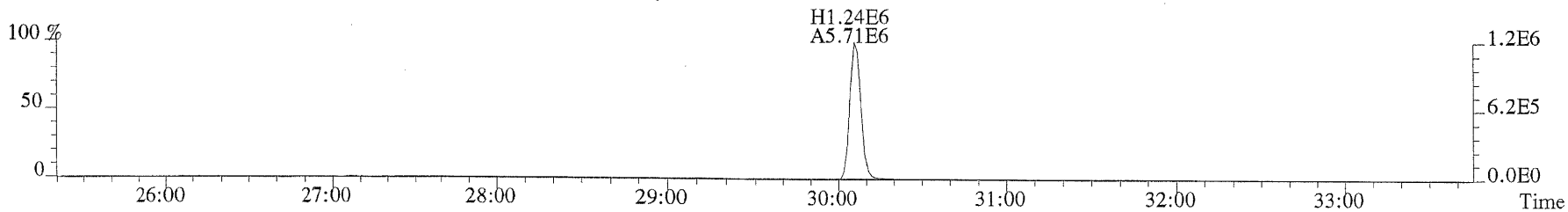
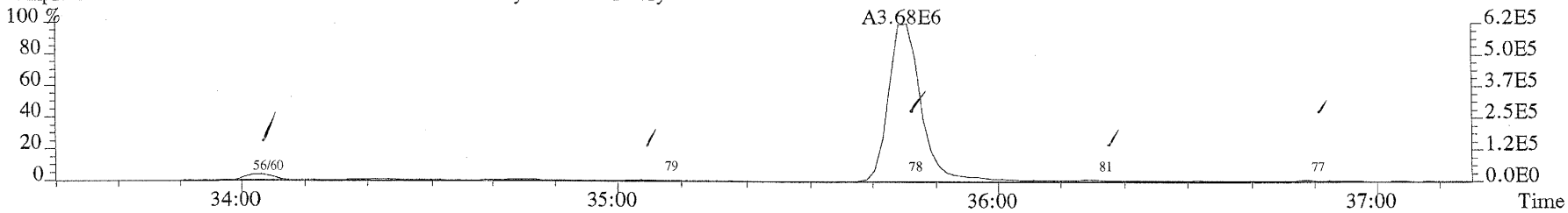
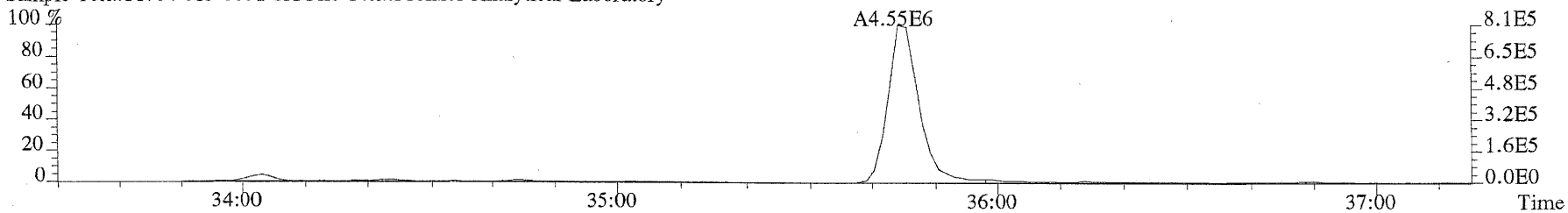
339.9178 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



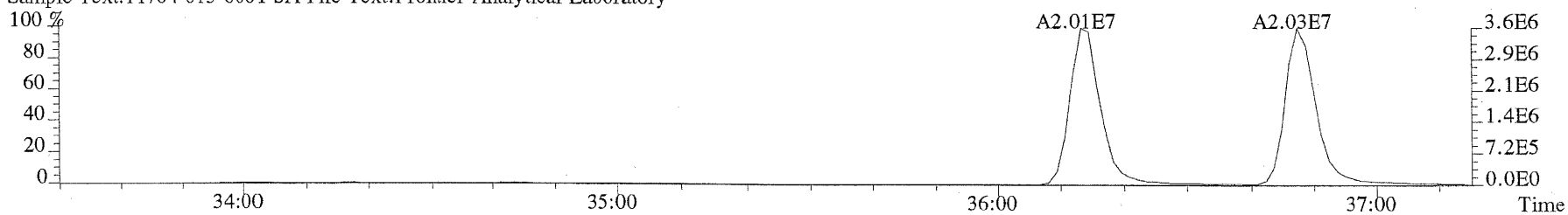
File:25JUL18Z #1-183 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



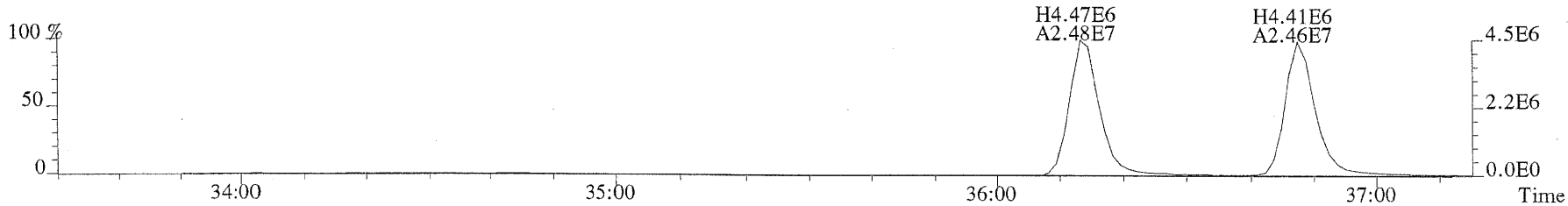
File:25JUL18Z #1-183 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



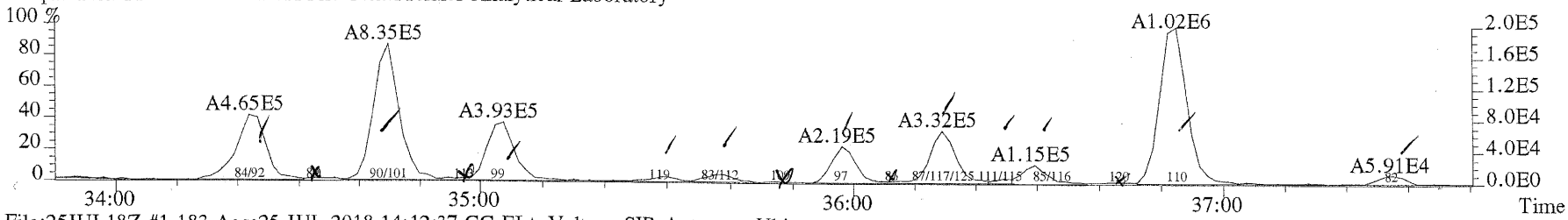
File:25JUL18Z #1-183 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



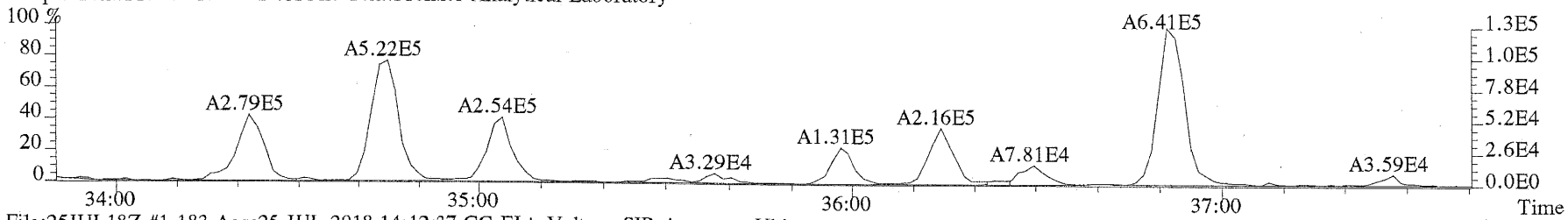
File:25JUL18Z #1-183 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-183 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-183 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



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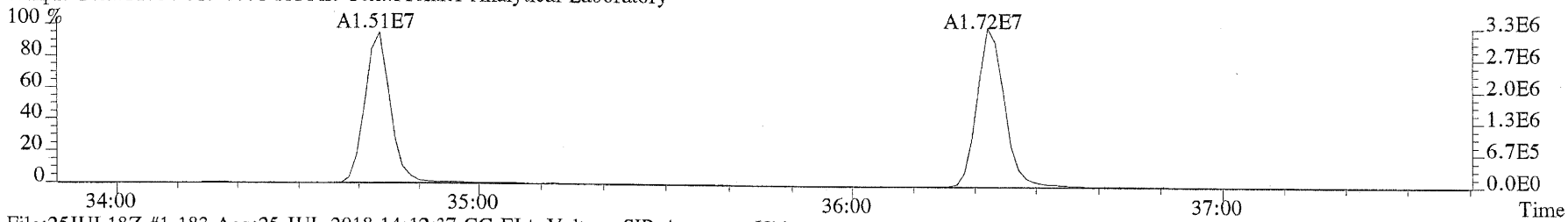
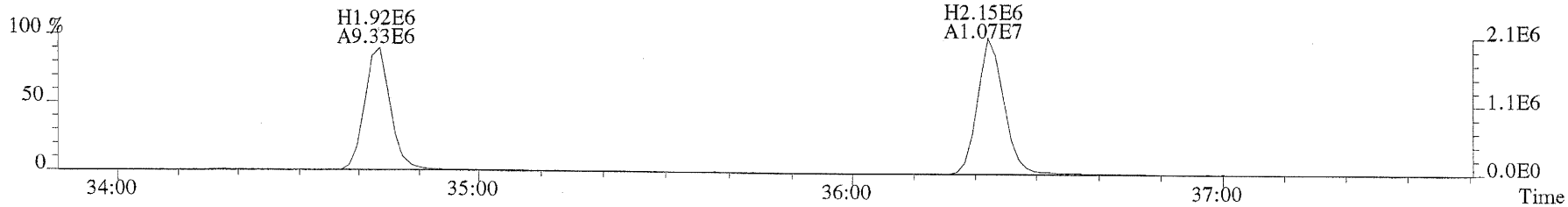
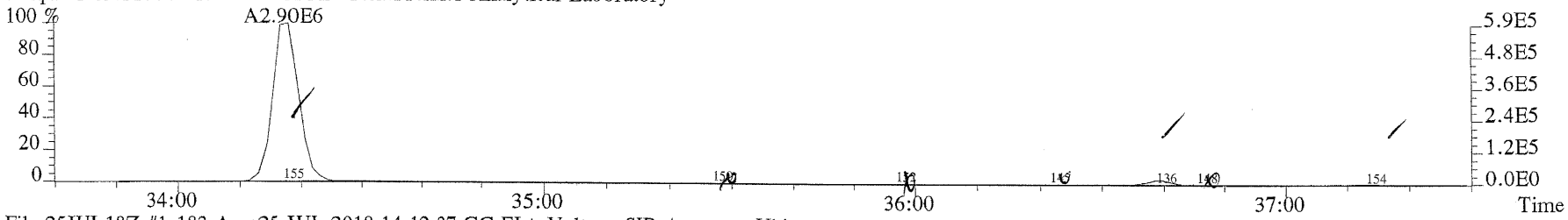
337.9207 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



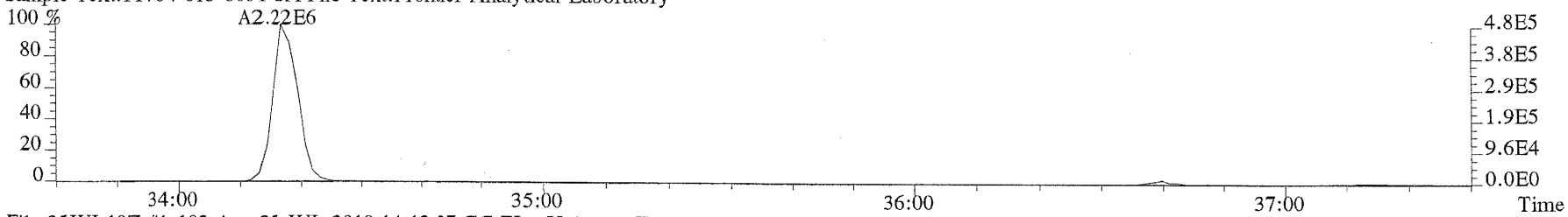
File:25JUL18Z #1-183 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



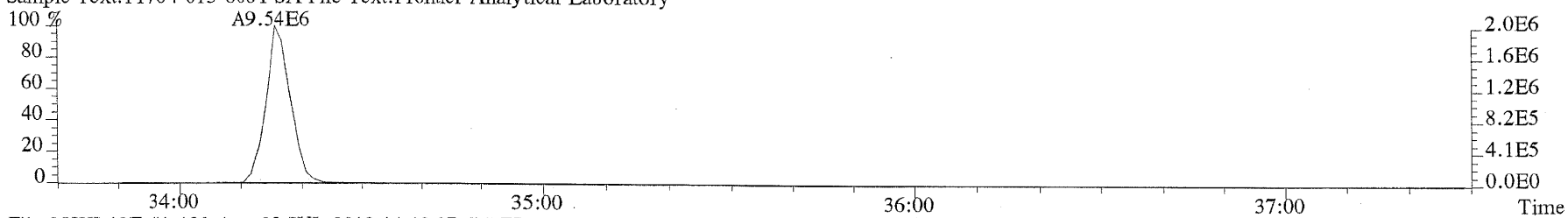
File:25JUL18Z #1-183 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-183 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-183 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



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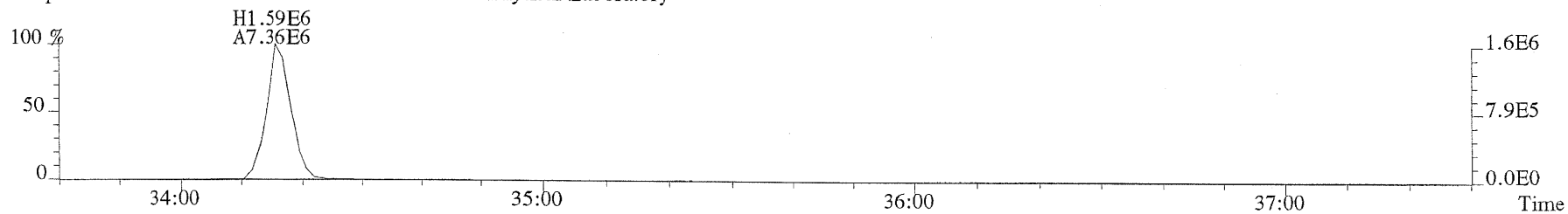
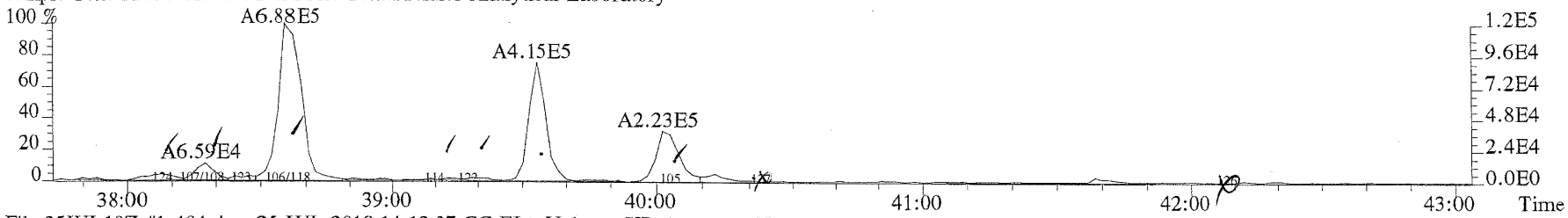
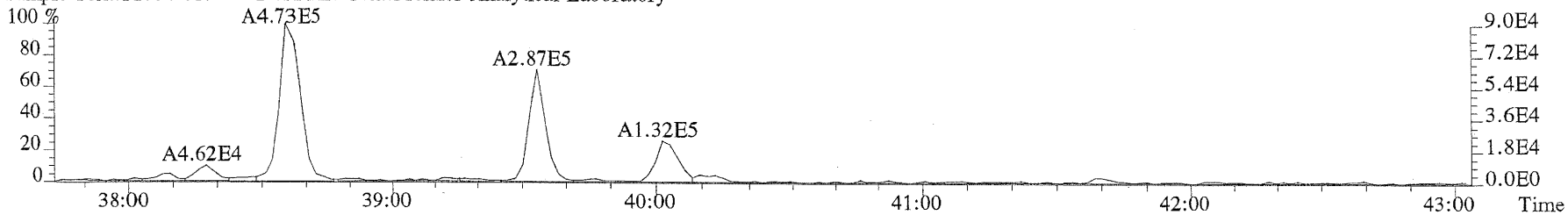
373.8788 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



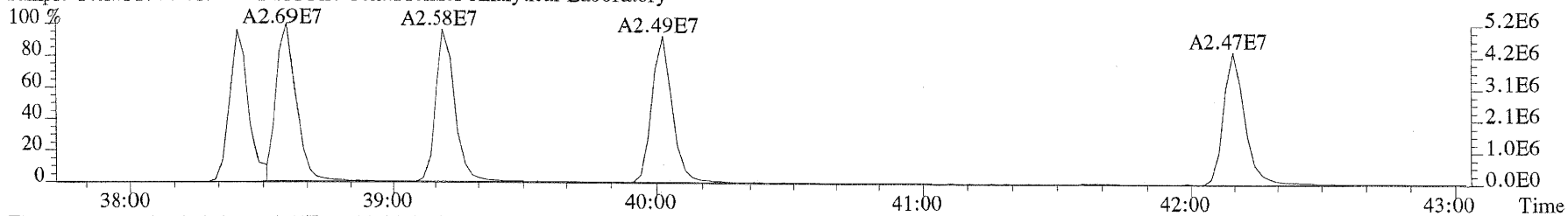
File:25JUL18Z #1-404 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



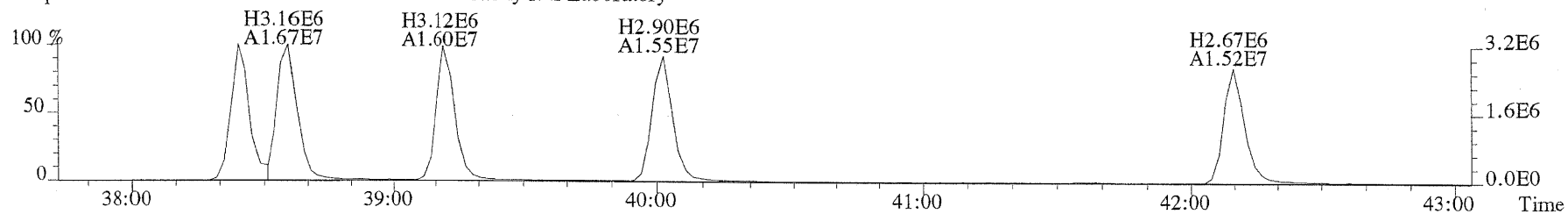
File:25JUL18Z #1-404 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



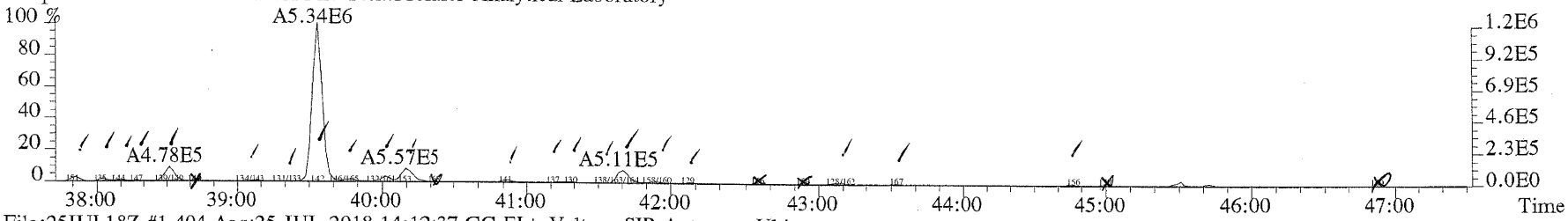
File:25JUL18Z #1-404 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



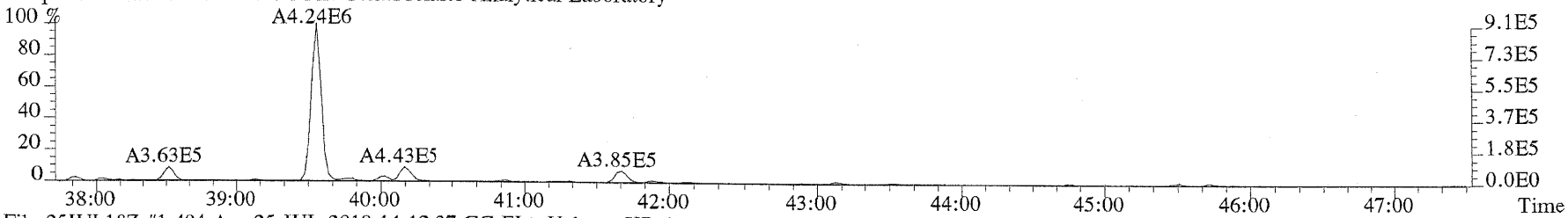
File:25JUL18Z #1-404 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



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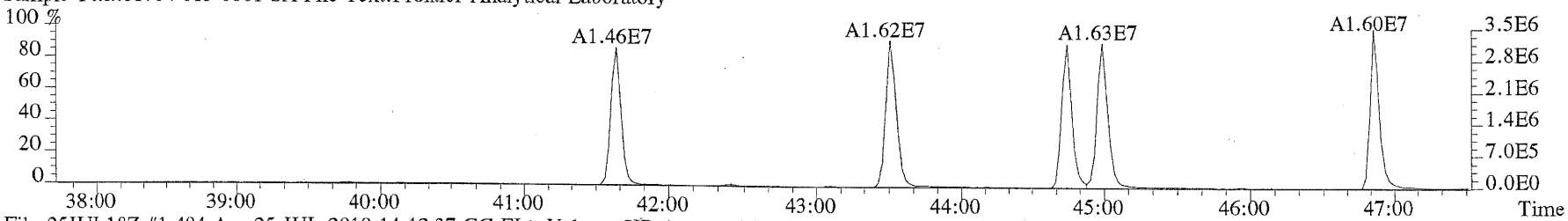
371.8817 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
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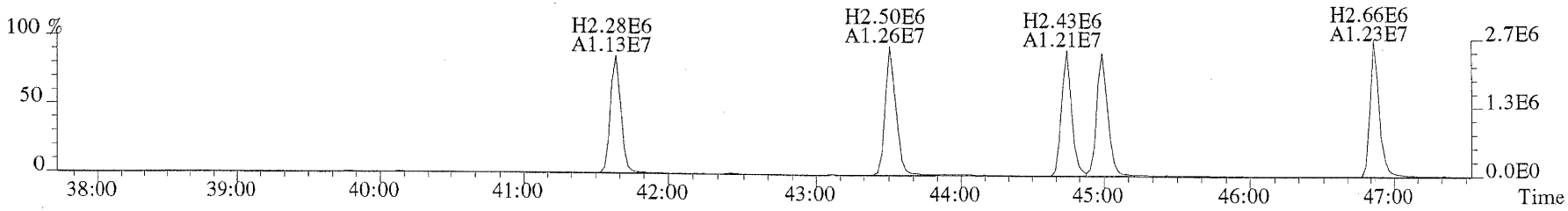
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



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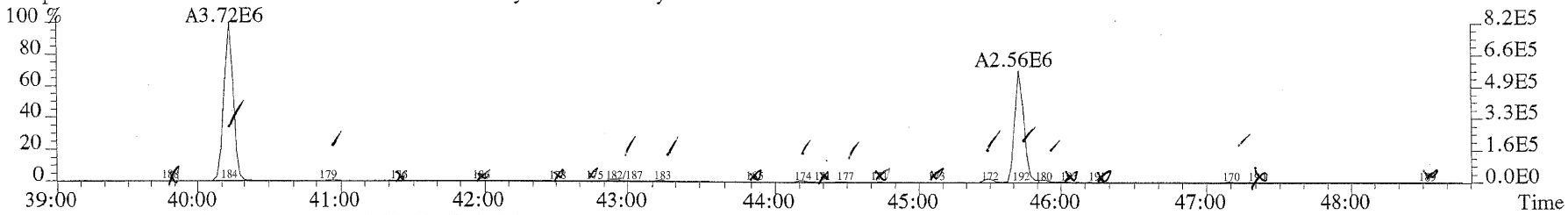
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



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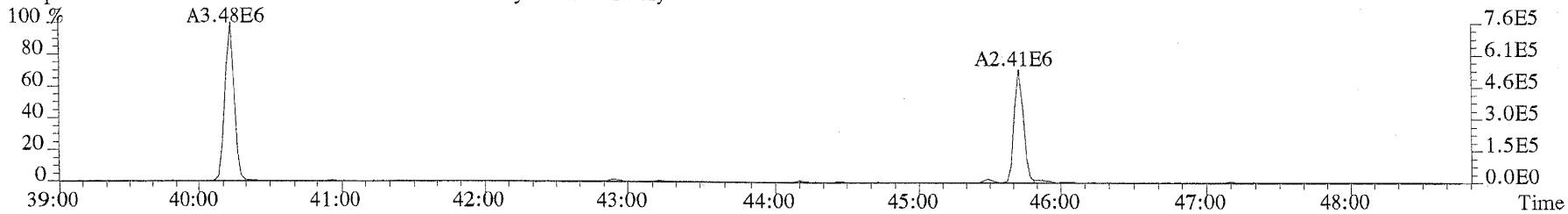
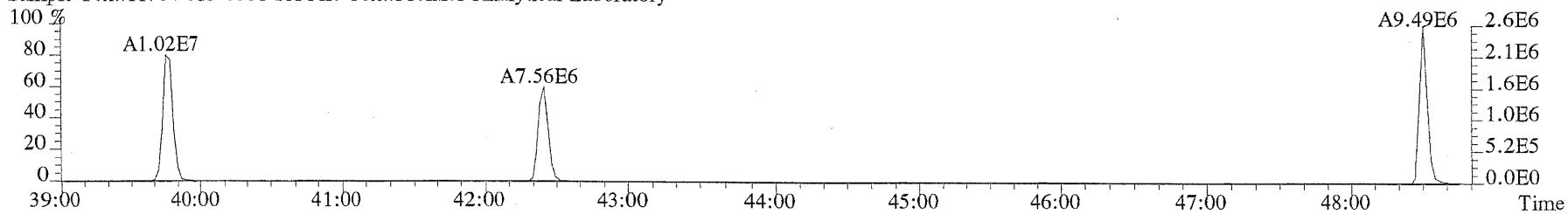
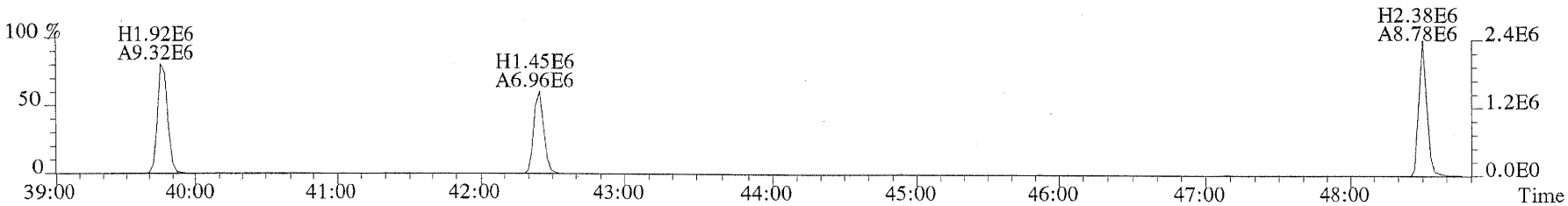
395.7995 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



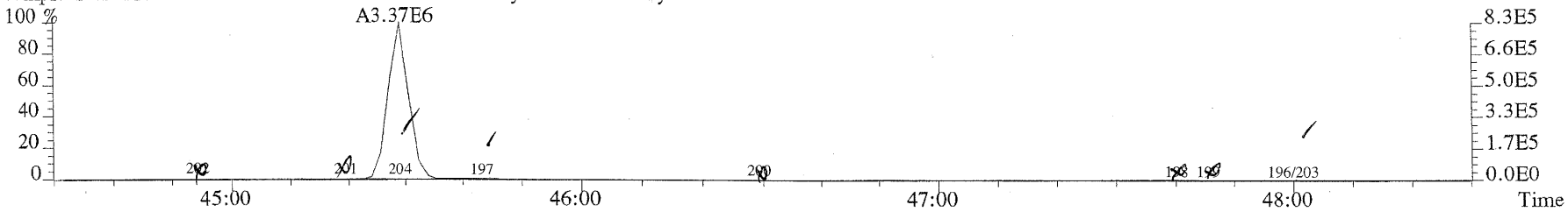
File:25JUL18Z #1-404 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



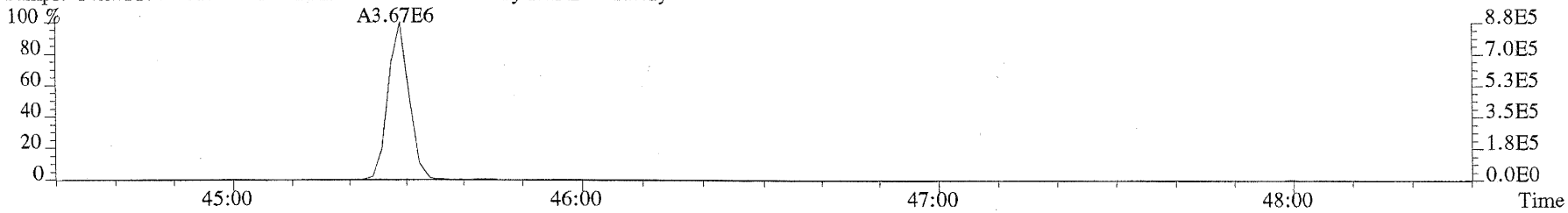
File:25JUL18Z #1-404 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



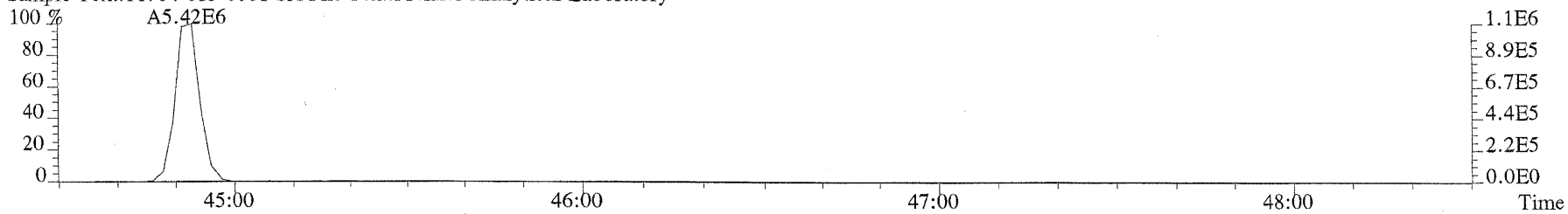
File:25JUL18Z #1-404 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



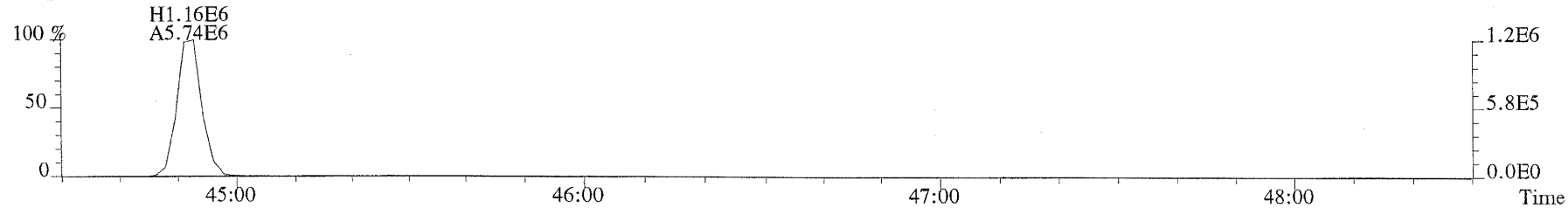
File:25JUL18Z #1-404 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



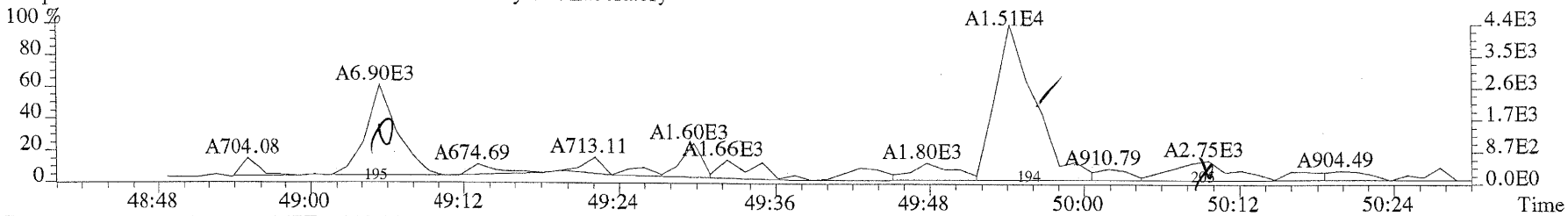
File:25JUL18Z #1-404 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



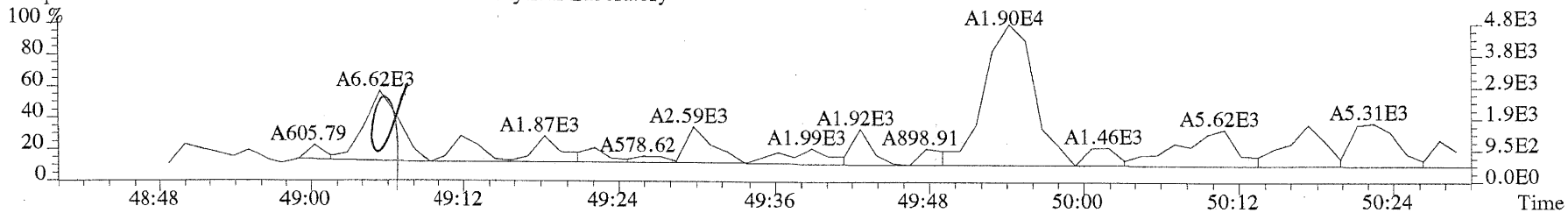
File:25JUL18Z #1-404 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



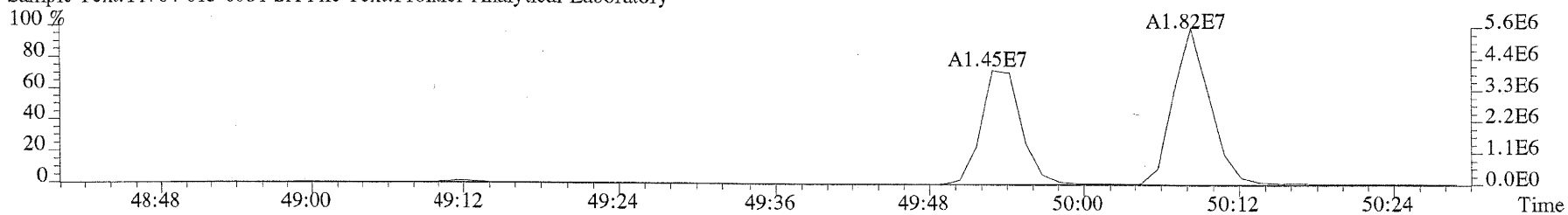
File:25JUL18Z #1-314 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



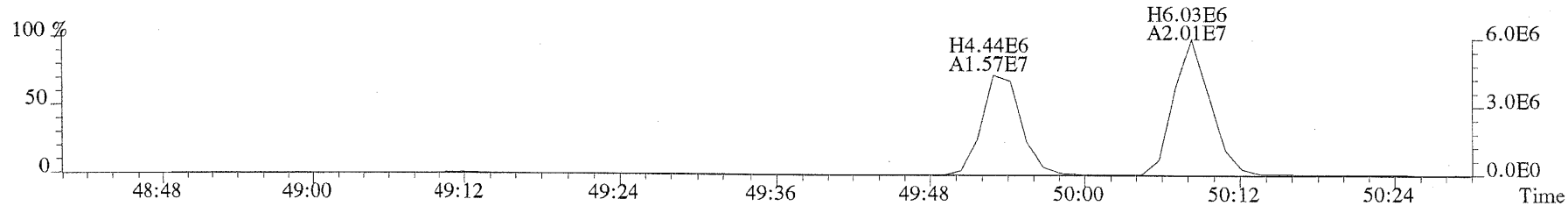
File:25JUL18Z #1-314 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



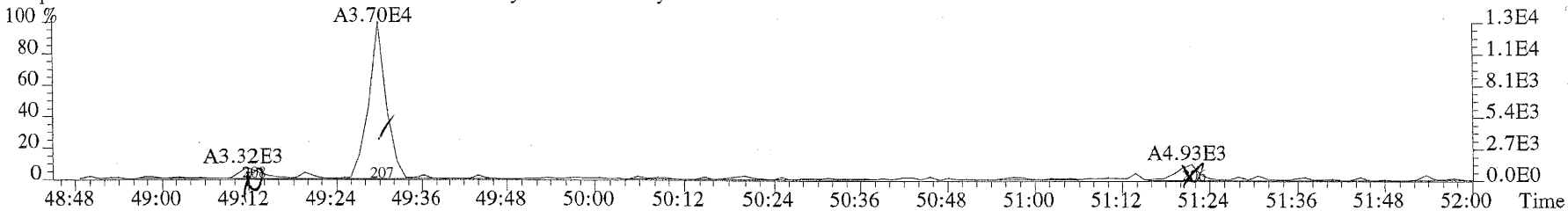
File:25JUL18Z #1-314 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



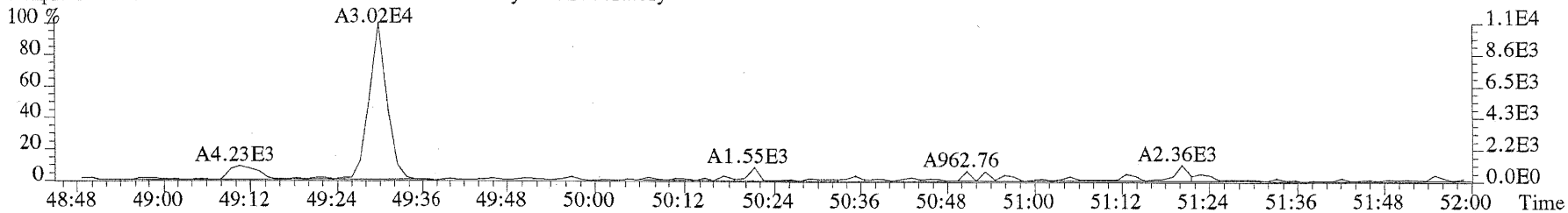
File:25JUL18Z #1-314 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



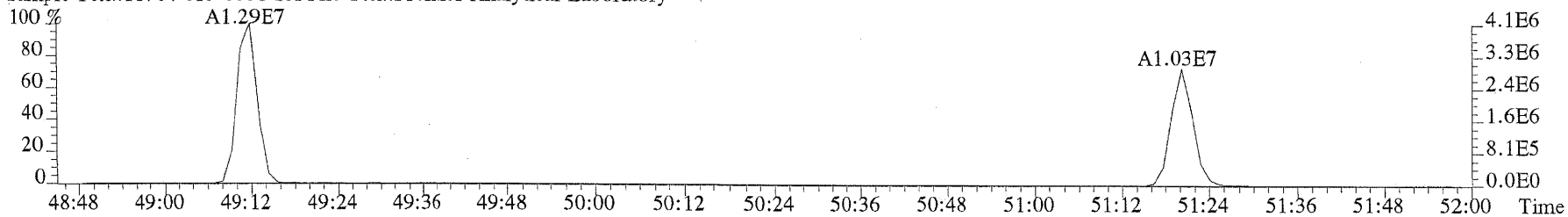
File:25JUL18Z #1-314 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



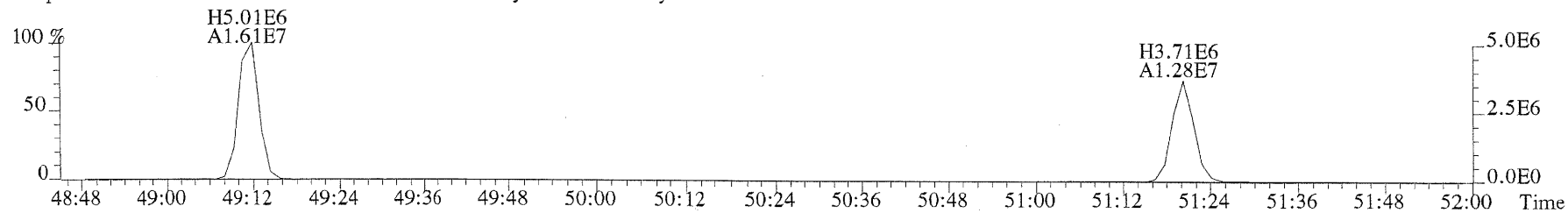
File:25JUL18Z #1-314 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



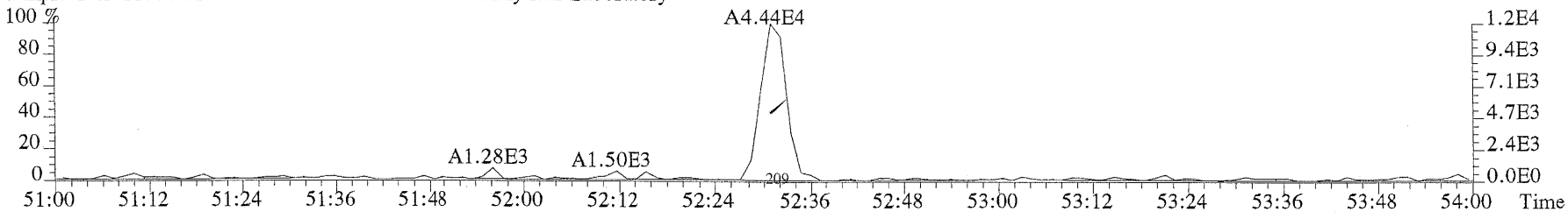
File:25JUL18Z #1-314 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



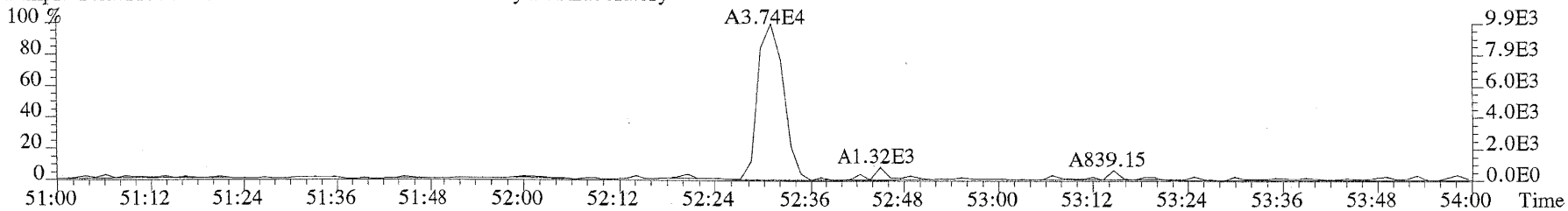
File:25JUL18Z #1-314 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



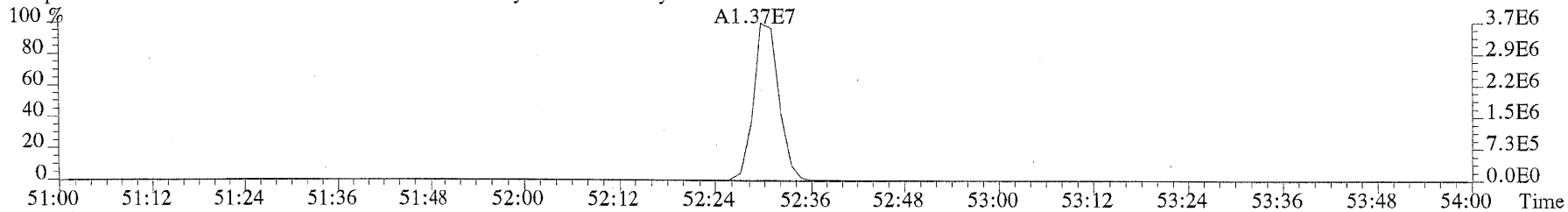
File:25JUL18Z #1-314 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



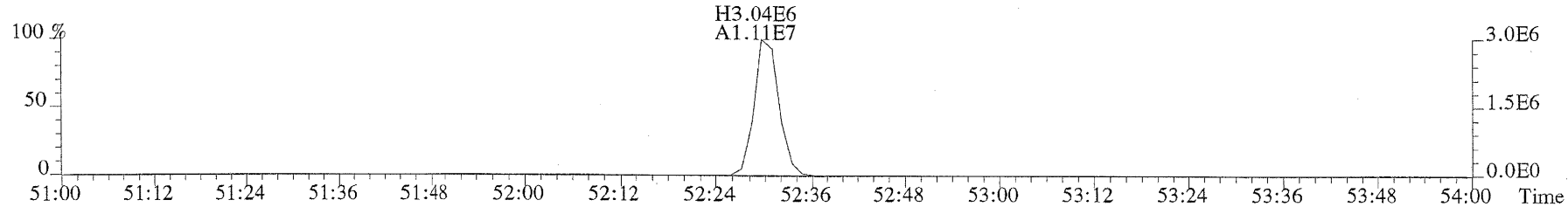
File:25JUL18Z #1-314 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 14:12:37 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-013-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11704-014-0001-SA Filename: 25JUL18Z Sam:9 Acquired: 25-JUL-18 15:10:59 ICal: DAILY209FAL4-7-25-18
Client ID: LDW-Y1-IN-ENR-CB-S010 ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	* n	NotFnd	1.19	*		1060	930	1.77			
13C-PCB-1	7.28e+07	3.24 y	14:33	0.80	8890					88.9	1.81e+07	5.61e+06
PCB-2	*	* n	NotFnd	1.10	*		1060	930	1.93			
PCB-3	4.14e+04	2.81 y	17:00	1.17	4.54	J	-	-	*			
13C-PCB-3	7.78e+07	3.30 y	17:00	0.85	9020					90.2	1.77e+07	5.37e+06
PCB-4	3.92e+05	1.47 y	18:15	1.26	49.9		-	-	*			
PCB-10	*	* n	NotFnd	1.15	*		1330	2510	4.05			
13C-PCB-4	6.25e+07	1.63 y	18:13	0.63	9690					96.9	1.10e+07	6.91e+06
PCB-9	*	* n	NotFnd	1.28	*		1330	2510	3.63			
PCB-7	*	* n	NotFnd	1.30	*		1330	2510	3.57			
PCB-6	3.45e+05	1.44 y	20:33	1.28	33.4		-	-	*			
PCB-8	5.23e+05	1.54 y	20:57	1.28	50.3		-	-	*			
PCB-5	*	* n	NotFnd	1.29	*		1330	2510	3.59			
PCB-14	1.37e+06	1.59 y	22:00	1.23	138		-	-	*			
PCB-11	4.18e+05	1.40 y	23:08	1.20	42.9		-	-	*			
PCB-13	*	* n	NotFnd	1.24	*		1330	2510	3.75			
PCB-12	*	* n	NotFnd	1.25	*		1330	2510	3.70			
PCB-15	3.65e+05	1.34 y	23:49	1.12	32.6		-	-	*			
13C-PCB-15	9.97e+07	1.64 y	23:47	0.95	10300					103	1.41e+07	8.75e+06
PCB-19	1.54e+05	1.14 y	22:08	1.26	32.7		-	-	*			
PCB-30	*	* n	NotFnd	1.70	*		1580	548	3.28			
PCB-18	7.61e+05	1.07 y	23:41	1.21	168		-	-	*			
PCB-17	3.35e+05	1.03 y	23:51	1.29	69.0		-	-	*			
PCB-27	8.48e+04	1.11 y	24:22	1.64	13.8	J	-	-	*			
PCB-24	1.27e+05	1.14 y	24:23	1.68	20.2		-	-	*			
PCB-16	2.16e+05	1.17 y	24:53	1.42	40.4		-	-	*			
PCB-32	1.89e+05	1.15 y	24:54	1.44	35.0		-	-	*			
13C-PCB-19	3.75e+07	1.09 y	22:07	0.40	9240					92.4	4.99e+06	4.53e+06
13C-PCB-9	1.02e+08	1.61 y	19:55	-	88.6							
PCB-34	*	* n	NotFnd	1.09	*		2210	1390	5.10			
PCB-23	*	* n	NotFnd	1.17	*		2210	1390	4.72			
PCB-29	*	* n	NotFnd	1.18	*		2210	1390	4.72			
PCB-26	1.01e+06	1.08 y	26:11	1.12	105		-	-	*			
PCB-25	4.73e+05	1.11 y	26:21	1.38	39.9		-	-	*			
PCB-31	1.41e+06	1.06 y	26:40	1.10	149		-	-	*			
PCB-28	1.45e+06	1.06 y	26:46	1.34	126		-	-	*			
PCB-20	4.74e+05	1.16 y	27:21	1.19	46.4		-	-	*		Co-elute PCB 21/33	
PCB-21	4.74e+05	1.16 y	27:21	1.19	46.4		-	-	*		Co-elute PCB 20/33	
PCB-33	4.74e+05	1.16 y	27:21	1.19	46.4		-	-	*		Co-elute PCB 20/21	
PCB-22	2.94e+05	1.14 y	27:45	1.17	29.3		-	-	*			
PCB-36	4.80e+06	1.07 y	28:22	1.09	512		-	-	*			
PCB-39	*	* n	NotFnd	1.13	*		2210	1390	4.90			
PCB-38	*	* n	NotFnd	1.17	*		2210	1390	4.76			
PCB-35	*	* n	NotFnd	1.04	*		2210	1390	5.33			
PCB-37	2.01e+05	1.11 y	30:28	1.23	19.0	J	-	-	*			
13C-PCB-37	8.60e+07	1.10 y	30:26	1.68	11300					113	8.51e+06	7.71e+06

PCB-54	*	*	n	NotFnd	1.19	*		764	880	2.83			
PCB-50	*	*	n	NotFnd	0.90	*		764	880	3.78			
PCB-53	4.87e+05	0.83	y	27:23	0.91	107		-	-	*			
PCB-51	1.06e+05	0.83	y	27:43	0.93	23.0		-	-	*			
PCB-45	2.08e+05	0.83	y	28:07	0.78	53.0		-	-	*			
PCB-46	7.42e+04	0.80	y	28:36	0.77	19.4	J	-	-	*			
PCB-52	4.19e+06	0.82	y	29:01	1.08	774		-	-	*	Co-elute PCB 69		
PCB-69	4.19e+06	0.82	y	29:01	1.08	774		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.19	*		764	880	2.85			
PCB-43	1.96e+06	0.82	y	29:19	0.88	447		-	-	*	Co-elute PCB 49		
PCB-49	1.96e+06	0.82	y	29:19	0.88	447		-	-	*	Co-elute PCB 43		
PCB-47	6.80e+05	0.83	y	29:30	1.15	118		-	-	*			
PCB-48	2.34e+05	0.88	y	29:37	1.06	43.9		-	-	*	Co-elute PCB 75		
PCB-75	2.34e+05	0.88	y	29:37	1.06	43.9		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.09	*		764	880	3.09			
PCB-62	*	*	n	NotFnd	1.15	*		764	880	2.95			
PCB-44	1.26e+06	0.79	y	30:16	0.82	308		-	-	*			
PCB-42	5.10e+05	0.84	y	30:30	1.06	95.8		-	-	*	Co-elute PCB 59		
PCB-59	5.10e+05	0.84	y	30:30	1.06	95.8		-	-	*	Co-elute PCB 42		
PCB-72	1.08e+06	0.81	y	31:03	1.15	189		-	-	*	Co-elute PCB 41/71/64		
PCB-41	1.08e+06	0.81	y	31:03	1.15	189		-	-	*	Co-elute PCB 72/71/64		
PCB-71	1.08e+06	0.81	y	31:03	1.15	189		-	-	*	Co-elute PCB 72/41/64		
PCB-64	1.08e+06	0.81	y	31:03	1.15	189		-	-	*	Co-elute PCB 72/41/71		
PCB-68	7.45e+04	0.86	y	31:16	1.25	11.9	J	-	-	*			
PCB-40	1.29e+05	0.87	y	31:28	0.71	36.5		-	-	*			
PCB-57	*	*	n	NotFnd	1.13	*		764	880	2.98			
PCB-67	5.53e+04	0.87	y	32:07	1.12	9.89	J	-	-	*			
PCB-58	*	*	n	NotFnd	1.18	*		764	880	2.86			
PCB-63	4.72e+04	0.87	y	32:23	1.14	8.32	J	-	-	*			
PCB-74	4.24e+05	0.76	y	32:40	1.21	69.9		-	-	*			
PCB-61	1.07e+06	0.83	y	32:53	1.23	173		-	-	*	Co-elute PCB 70		
PCB-70	1.07e+06	0.83	y	32:53	1.23	173		-	-	*	Co-elute PCB 61		
PCB-76	1.04e+06	0.78	y	33:04	1.21	173		-	-	*	Co-elute PCB 66		
PCB-66	1.04e+06	0.78	y	33:04	1.21	173		-	-	*	Co-elute PCB 76		
PCB-80	4.30e+04	0.87	y	33:18	1.30	6.62	J	-	-	*			
PCB-55	2.26e+05	0.79	y	33:37	1.20	37.7		-	-	*			
13C-PCB-54	5.00e+07	0.83	y	25:39	1.11	9930					99.3	5.48e+06	6.67e+06
PCB-104	4.72e+06	1.58	y	30:07	1.35	1580		-	-	*			
PCB-96	*	*	n	NotFnd	1.22	*		376	296	2.71			
PCB-103	4.19e+04	1.41	y	31:48	1.05	18.2	J	-	-	*			
PCB-100	3.20e+04	1.46	y	32:11	1.07	13.5	J	-	-	*			
PCB-94	*	*	n	NotFnd	0.90	*		376	296	3.69			
PCB-98	*	*	n	NotFnd	0.54	*		376	296	6.13	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.54	*		376	296	6.13	Co-elute PCB 98		
PCB-95	2.30e+06	1.64	y	33:06	1.08	966		-	-	*			
PCB-93	*	*	n	NotFnd	0.98	*		376	296	3.37			
PCB-88	2.33e+05	1.47	y	33:29	1.06	99.8		-	-	*	Co-elute PCB 91		
PCB-91	2.33e+05	1.47	y	33:29	1.06	99.8		-	-	*	Co-elute PCB 88		
PCB-121	9.20e+06	1.63	y	33:36	1.10	3800		-	-	*			
13C-PCB-104	2.21e+07	1.66	y	30:06	0.50	9690					96.9	3.13e+06	1.92e+06
13C-PCB-28	9.81e+07	1.06	y	26:45	1.97	11000					110	1.07e+07	9.97e+06
13C-PCB-52	4.53e+07	0.81	y	29:00	-	80.7							

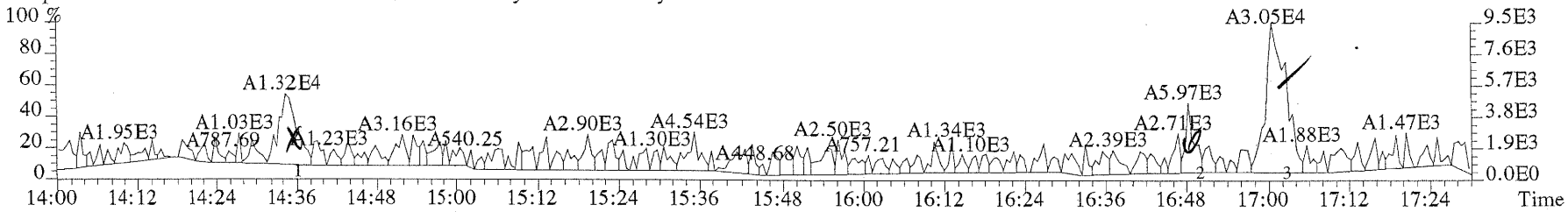
PCB-56	5.23e+05	0.83	y	34:03	1.08	72.0		-	-	*		Co-elute PCB 60	
PCB-60	5.23e+05	0.83	y	34:03	1.08	72.0		-	-	*		Co-elute PCB 56	
PCB-79	4.77e+04	0.79	y	35:02	1.14	6.24	J	-	-	*			
PCB-78	1.60e+07	0.77	y	35:44	1.09	2170		-	-	*			
PCB-81	1.71e+05	0.84	y	36:13	1.14	22.2		-	-	*			
13C-PCB-81	6.71e+07	0.81	y	36:13	1.57	11700					117	5.57e+06	6.93e+06
PCB-77	1.09e+05	0.84	y	36:50	1.11	14.6	J	-	-	*			
13C-PCB-77	6.75e+07	0.81	y	36:47	1.61	11500					115	5.41e+06	6.73e+06
PCB-155	1.08e+07	1.30	y	34:17	1.24	3480		-	-	*			
PCB-150	*	*	n	NotFnd	1.13	*		332	284	2.47			
PCB-152	*	*	n	NotFnd	1.06	*		332	284	2.63			
PCB-145	*	*	n	NotFnd	1.10	*		332	284	2.52			
PCB-136	2.89e+05	1.38	y	36:39	1.06	109		-	-	*			
PCB-148	*	*	n	NotFnd	0.84	*		332	284	3.31			
PCB-154	6.23e+04	1.27	y	37:13	0.97	25.4		-	-	*			
13C-PCB-155	2.51e+07	1.30	y	34:16	0.67	10200					102	3.16e+06	2.39e+06
13C-PCB-111	4.32e+07	1.60	y	36:22	1.16	10200					102	5.16e+06	3.25e+06
13C-PCB-101	3.66e+07	1.65	y	34:42	-	77.3							
PCB-84	1.76e+06	1.50	y	34:22	0.61	457		-	-	*		Co-elute PCB 92	
PCB-92	1.76e+06	1.50	y	34:22	0.61	457		-	-	*		Co-elute PCB 84	
PCB-89	*	*	n	NotFnd	0.58	*		1010	860	6.83			
PCB-90	3.06e+06	1.56	y	34:44	0.68	714		-	-	*		Co-elute PCB 101	
PCB-101	3.06e+06	1.56	y	34:44	0.68	714		-	-	*		Co-elute PCB 90	
PCB-113	*	*	n	NotFnd	0.77	*		1010	860	5.17			
PCB-99	1.47e+06	1.58	y	35:02	0.75	311		-	-	*			
PCB-119	1.42e+05	1.58	y	35:29	0.81	27.7		-	-	*			
PCB-83	1.66e+05	1.37	y	35:38	0.69	38.2		-	-	*		Co-elute PCB 112	
PCB-112	1.66e+05	1.37	y	35:38	0.69	38.2		-	-	*		Co-elute PCB 83	
PCB-109	*	*	n	NotFnd	0.82	*		1010	860	4.84			
PCB-97	8.05e+05	1.64	y	35:58	0.73	175		-	-	*			
PCB-86	*	*	n	NotFnd	0.70	*		1010	860	5.64			
PCB-125	1.17e+06	1.62	y	36:15	0.72	255		-	-	*		Co-elute PCB 87/117	
PCB-87	1.17e+06	1.62	y	36:15	0.72	255		-	-	*		Co-elute PCB 125/117	
PCB-117	1.17e+06	1.62	y	36:15	0.72	255		-	-	*		Co-elute PCB 125/87	
PCB-111	3.80e+04	1.64	y	36:22	0.99	6.06	J	-	-	*		Co-elute PCB 115	
PCB-115	3.80e+04	1.64	y	36:22	0.99	6.06	J	-	-	*		Co-elute PCB 111	
PCB-85	4.55e+05	1.68	y	36:30	0.71	102		-	-	*		Co-elute PCB 116	
PCB-116	4.55e+05	1.68	y	36:30	0.71	102		-	-	*		Co-elute PCB 85	
PCB-120	*	*	n	NotFnd	0.81	*		1010	860	4.88			
PCB-110	3.77e+06	1.60	y	36:51	0.96	623		-	-	*			
PCB-82	2.01e+05	1.46	y	37:28	0.50	63.9		-	-	*			
PCB-124	1.30e+05	1.36	y	38:08	0.91	22.8		-	-	*			
PCB-108	2.38e+05	1.50	y	38:18	1.07	35.1		-	-	*		Co-elute PCB 107	
PCB-107	2.38e+05	1.50	y	38:18	1.07	35.1		-	-	*		Co-elute PCB 108	
PCB-123	7.42e+04	1.35	y	38:26	1.23	10.0	J	-	-	*			
13C-PCB-123	6.00e+07	1.60	y	38:24	1.40	11000					110	7.28e+06	4.56e+06
PCB-118	2.37e+06	1.53	y	38:36	1.03	340		-	-	*		Co-elute PCB 106	
PCB-106	2.37e+06	1.53	y	38:36	1.03	340		-	-	*		Co-elute PCB 118	
13C-PCB-118	6.74e+07	1.62	y	38:34	1.53	11300					113	7.37e+06	4.57e+06
PCB-114	6.51e+04	1.53	y	39:14	1.07	9.65	J	-	-	*			
13C-PCB-114	6.31e+07	1.60	y	39:12	1.46	11100					111	7.59e+06	4.74e+06
PCB-122	3.81e+04	1.37	y	39:19	1.10	5.50	J	-	-	*			
PCB-105	7.68e+05	1.52	y	40:01	1.08	115		-	-	*			
13C-PCB-105	6.18e+07	1.62	y	40:01	1.44	11000					110	6.87e+06	4.17e+06

PCB-127	*	*	n	NotFnd	0.99	*		868	740	3.45			
PCB-126	*	*	n	NotFnd	1.12	*		868	740	3.88			
13C-PCB-126	5.69e+07	1.60	y	42:10	1.35	10800					108	5.69e+06	3.58e+06
PCB-151	5.02e+05	1.32	y	37:51	0.85	142		-	-	*			
PCB-135	3.42e+05	1.21	y	38:03	0.82	100		-	-	*			
PCB-144	1.07e+05	1.28	y	38:10	0.93	27.7		-	-	*			
PCB-147	5.08e+04	1.13	y	38:18	0.92	13.2	J	-	-	*			
PCB-139	1.94e+06	1.18	y	38:31	0.98	477		-	-	*		Co-elute PCB 149	
PCB-149	1.94e+06	1.18	y	38:31	0.98	477		-	-	*		Co-elute PCB 139	
PCB-140	*	*	n	NotFnd	0.95	*		836	668	4.92			
PCB-143	1.48e+05	1.36	y	39:07	0.90	39.7		-	-	*		Co-elute PCB 134	
PCB-134	1.48e+05	1.36	y	39:07	0.90	39.7		-	-	*		Co-elute PCB 143	
PCB-131	5.99e+04	1.14	y	39:24	0.90	15.9	J	-	-	*		Co-elute PCB 133	
PCB-133	5.99e+04	1.14	y	39:24	0.90	15.9	J	-	-	*		Co-elute PCB 131	
PCB-142	2.00e+07	1.27	y	39:33	0.77	6240		-	-	*			
PCB-165	4.16e+05	1.23	y	39:47	1.05	95.3		-	-	*		Co-elute PCB 146	
PCB-146	4.16e+05	1.23	y	39:47	1.05	95.3		-	-	*		Co-elute PCB 165	
PCB-161	7.54e+05	1.23	y	40:01	1.00	182		-	-	*		Co-elute PCB 132	
PCB-132	7.54e+05	1.23	y	40:01	1.00	182		-	-	*		Co-elute PCB 161	
PCB-153	2.14e+06	1.26	y	40:10	1.01	509		-	-	*			
PCB-168	*	*	n	NotFnd	1.15	*		836	668	4.06			
PCB-141	2.73e+05	1.18	y	40:51	0.89	74.0		-	-	*			
PCB-137	8.11e+04	1.30	y	41:12	0.90	21.6		-	-	*			
PCB-130	1.28e+05	1.34	y	41:19	0.76	40.8		-	-	*			
PCB-138	1.96e+06	1.29	y	41:40	1.17	403		-	-	*		Co-elute PCB 163/164	
PCB-163	1.96e+06	1.29	y	41:40	1.17	403		-	-	*		Co-elute PCB 138/164	
PCB-164	1.96e+06	1.29	y	41:40	1.17	403		-	-	*		Co-elute PCB 138/163	
PCB-158	2.18e+05	1.34	y	41:53	1.18	44.4		-	-	*		Co-elute PCB 160	
PCB-160	2.18e+05	1.34	y	41:53	1.18	44.4		-	-	*		Co-elute PCB 158	
PCB-129	8.08e+04	1.27	y	42:08	0.77	25.3		-	-	*			
PCB-166	*	*	n	NotFnd	1.08	*		836	668	4.34			
PCB-159	*	*	n	NotFnd	1.19	*		836	668	3.93			
PCB-128	2.42e+05	1.23	y	43:07	0.98	59.5		-	-	*		Co-elute PCB 162	
PCB-162	2.42e+05	1.23	y	43:07	0.98	59.5		-	-	*		Co-elute PCB 128	
PCB-167	6.04e+04	1.37	y	43:32	1.05	13.3	J	-	-	*			
13C-PCB-167	4.30e+07	1.31	y	43:30	1.12	9850					98.5	4.70e+06	3.60e+06
PCB-156	1.31e+05	1.34	y	44:45	1.11	29.3		-	-	*			
13C-PCB-156	4.06e+07	1.30	y	44:45	1.07	9700					97.0	4.20e+06	3.19e+06
PCB-157	3.60e+04	1.14	y	45:01	1.14	7.39	J	-	-	*			
13C-PCB-157	4.26e+07	1.32	y	44:59	1.12	9790					97.9	4.55e+06	3.49e+06
PCB-169	*	*	n	NotFnd	1.07	*		836	668	4.20			
13C-PCB-169	3.98e+07	1.29	y	46:51	1.08	9450					94.5	4.76e+06	3.63e+06

PCB-188	*	*	n	NotFnd	1.21	*		500	296	2.50			
13C-PCB-188	2.96e+07	1.08	y	39:45	0.80	9500					95.0	3.41e+06	3.19e+06
PCB-184	1.52e+07	1.06	y	40:13	1.25	4440		-	-	*			
PCB-179	1.32e+05	1.15	y	40:57	1.15	41.9		-	-	*			
PCB-176	4.01e+04	1.03	y	41:22	1.14	12.8	J	-	-	*			
PCB-186	*	*	n	NotFnd	1.19	*		500	296	2.57			
PCB-178	5.05e+04	0.95	y	42:26	0.83	22.3		-	-	*			
PCB-175	*	*	n	NotFnd	0.88	*		500	296	3.46			
PCB-187	2.35e+05	1.06	y	42:54	0.99	86.5		-	-	*		Co-elute PCB 182	
PCB-182	2.35e+05	1.06	y	42:54	0.99	86.5		-	-	*		Co-elute PCB 187	
PCB-183	1.20e+05	1.01	y	43:14	0.93	47.1		-	-	*			
PCB-185	*	*	n	NotFnd	0.88	*		500	296	3.46			
PCB-174	1.50e+05	1.03	y	44:12	0.89	61.4		-	-	*			
PCB-181	*	*	n	NotFnd	0.90	*		500	296	3.39			
PCB-177	7.73e+04	1.19	y	44:26	0.79	35.6		-	-	*			
PCB-171	3.25e+04	1.06	y	44:43	0.85	13.9	J	-	-	*			
PCB-173	*	*	n	NotFnd	0.80	*		500	296	3.82			
PCB-172	2.90e+05	1.17	y	45:29	0.80	133		-	-	*			
PCB-192	9.76e+06	1.05	y	45:42	1.11	3200		-	-	*			
PCB-180	3.15e+05	1.16	y	45:52	1.09	105		-	-	*			
PCB-193	5.14e+04	0.90	y	46:00	1.16	16.1	J	-	-	*			
PCB-191	*	*	n	NotFnd	1.08	*		500	296	2.83			
PCB-170	8.54e+04	1.13	y	47:08	0.77	40.2		-	-	*			
PCB-190	3.78e+04	0.94	y	47:18	1.09	12.6	J	-	-	*			
PCB-189	*	*	n	NotFnd	1.17	*		500	296	2.68			
13C-PCB-189	2.52e+07	1.07	y	48:30	0.73	8890					88.9	3.32e+06	3.06e+06
PCB-202	*	*	n	NotFnd	1.03	*		152	240	2.83			
PCB-201	*	*	n	NotFnd	1.02	*		152	240	2.86			
PCB-204	1.38e+07	0.94	y	45:27	1.00	8890		-	-	*			
PCB-197	7.57e+04	0.90	y	45:44	1.08	45.1		-	-	*			
PCB-200	*	*	n	NotFnd	1.01	*		152	240	2.91			
PCB-198	*	*	n	NotFnd	0.74	*		152	240	3.94			
PCB-199	2.68e+04	0.81	y	47:44	0.84	20.7		-	-	*			
PCB-203	2.02e+04	0.82	y	48:00	0.87	15.0	J	-	-	*		Co-elute PCB 196	
PCB-196	2.02e+04	0.82	y	48:00	0.87	15.0	J	-	-	*		Co-elute PCB 203	
13C-PCB-202	1.55e+07	0.92	y	44:51	0.44	9080					90.8	1.61e+06	1.73e+06
13C-PCB-178	2.20e+07	1.09	y	42:25	0.60	9330					93.3	2.23e+06	2.05e+06
13C-PCB-138	3.90e+07	1.28	y	41:39	-	80.4							
PCB-195	*	*	n	NotFnd	0.71	*		472	1160	3.93			
PCB-194	5.28e+04	0.83	y	49:54	0.79	12.6	J	-	-	*			
PCB-205	*	*	n	NotFnd	1.07	*		472	1160	2.59			
13C-PCB-205	5.27e+07	0.92	y	50:08	1.23	10000					100	7.07e+06	7.64e+06
PCB-208	*	*	n	NotFnd	1.01	*		772	800	2.90			
13C-PCB-208	4.12e+07	0.80	y	49:11	0.97	9920					99.2	5.96e+06	7.42e+06
PCB-207	1.15e+05	1.40	y	49:30	0.98	32.2		-	-	*			
PCB-206	*	*	n	NotFnd	1.00	*		772	800	4.00			
13C-PCB-206	3.20e+07	0.80	y	51:20	0.88	8530					85.3	4.41e+06	5.40e+06
PCB-209	1.59e+05	1.09	y	52:31	1.12	41.6		-	-	*			
13C-PCB-209	3.42e+07	1.23	y	52:30	0.97	8280					82.8	5.17e+06	4.30e+06
13C-PCB-194	4.28e+07	0.93	y	49:53	-	78.8							

Analyst: _____ Date: 8/20/18

File:25JUL18Z #1-783 Acq:25-JUL-2018 15:10:59 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:11704-014-0001-SA File Text:Frontier Analytical Laboratory



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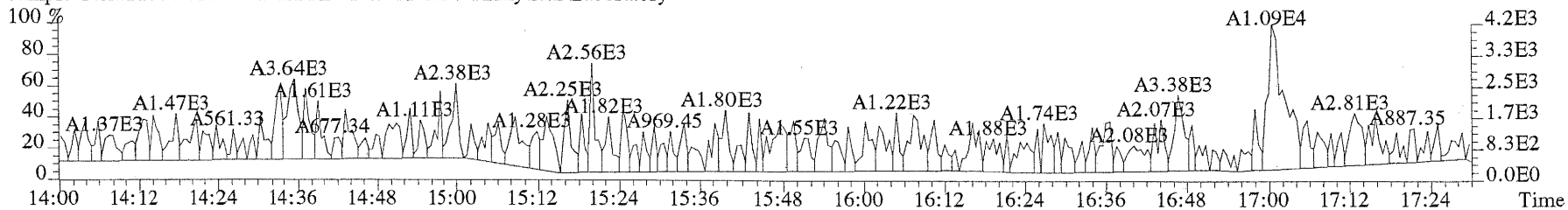

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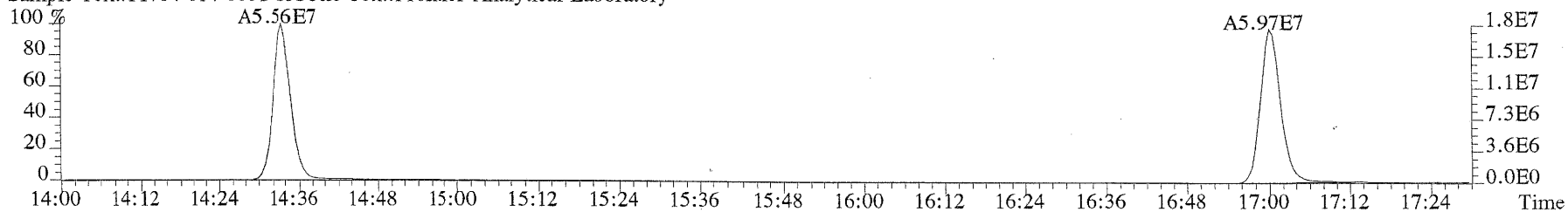

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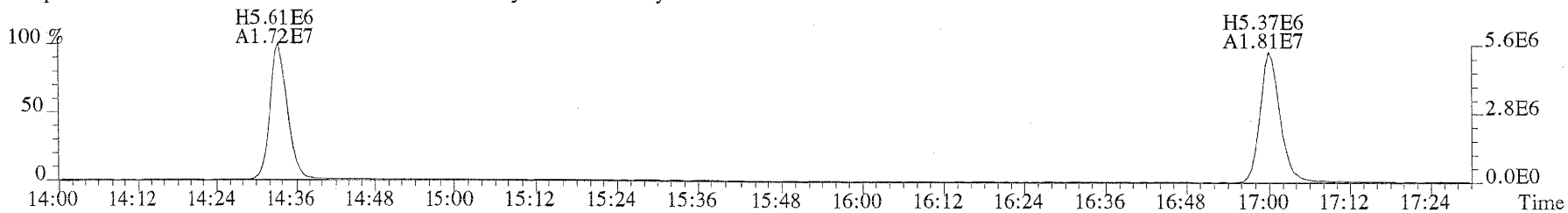

File:25JUL18Z #1-520 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
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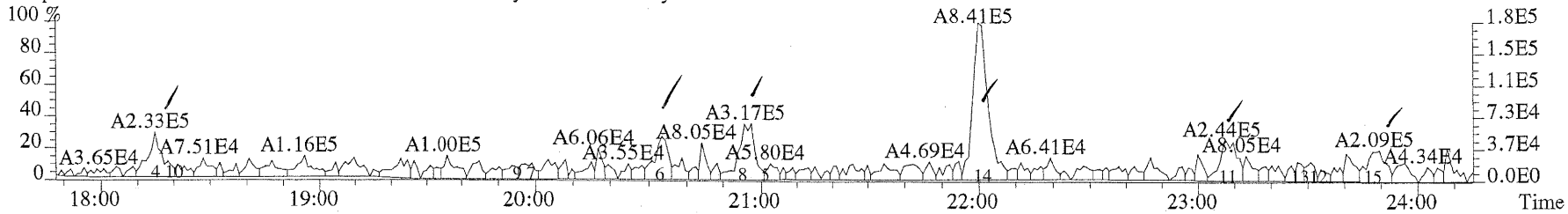
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-520 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
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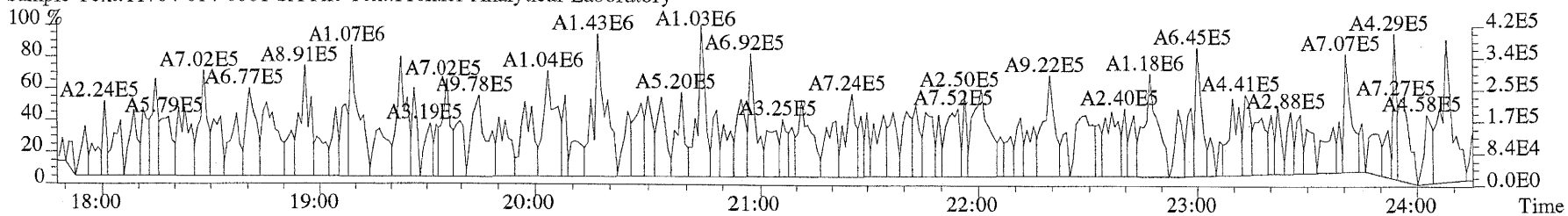
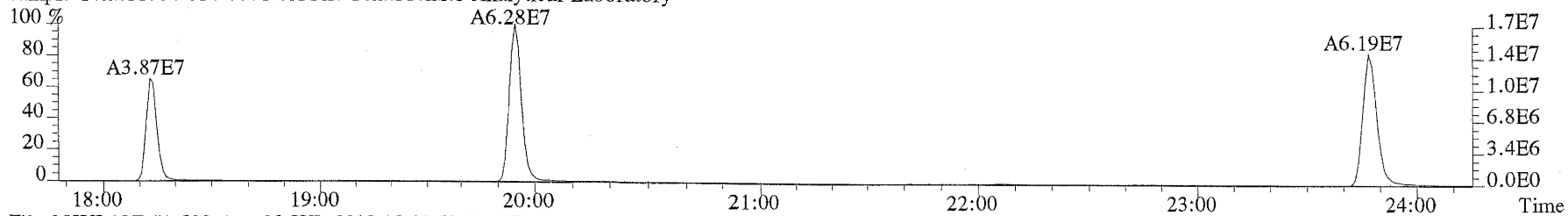
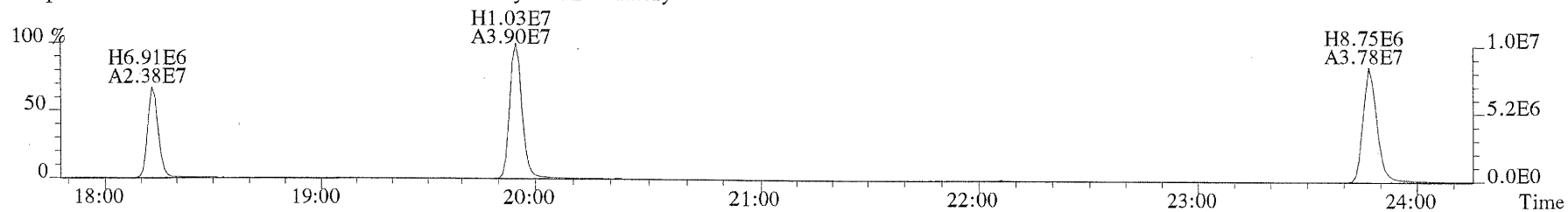
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



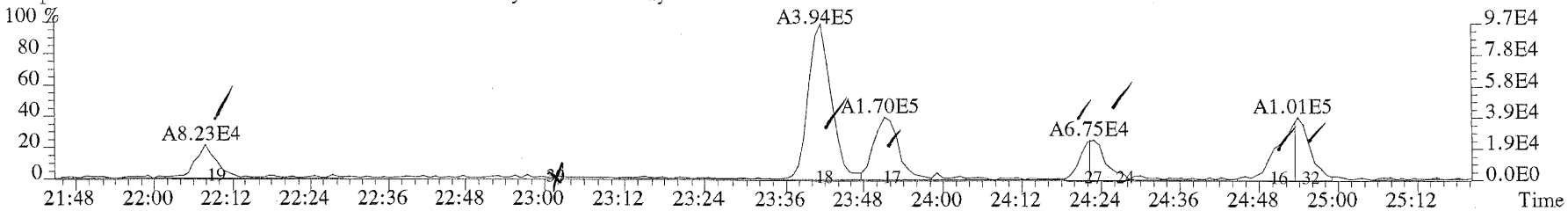
File:25JUL18Z #1-520 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



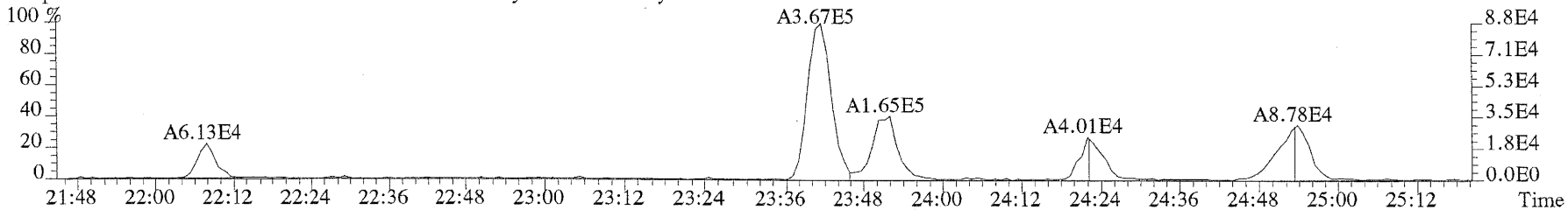
File:25JUL18Z #1-520 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



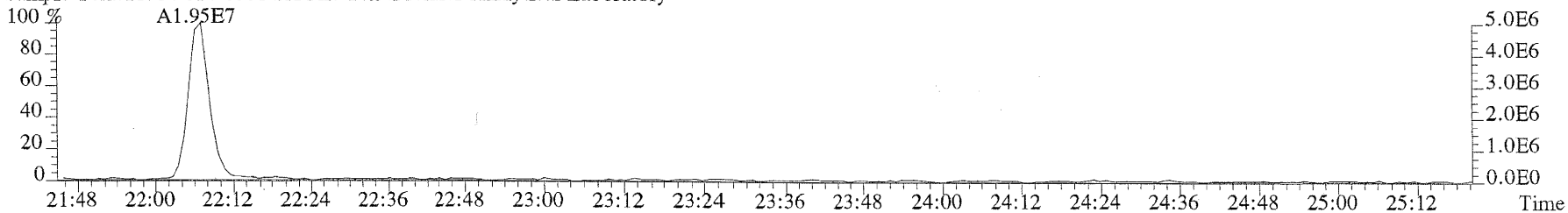
File:25JUL18Z #1-520 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



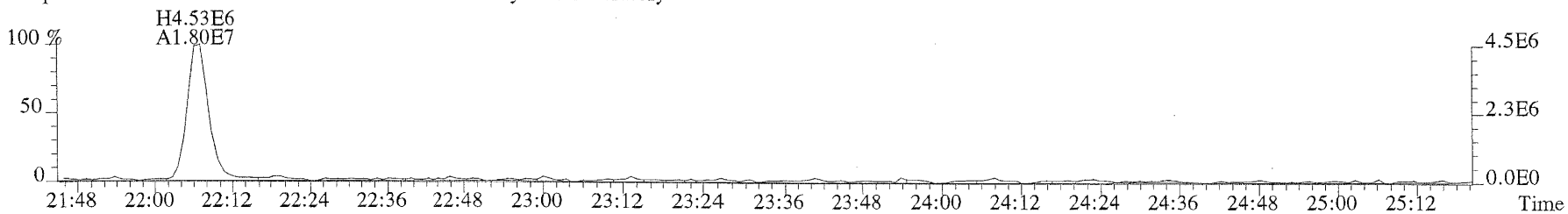
File:25JUL18Z #1-520 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



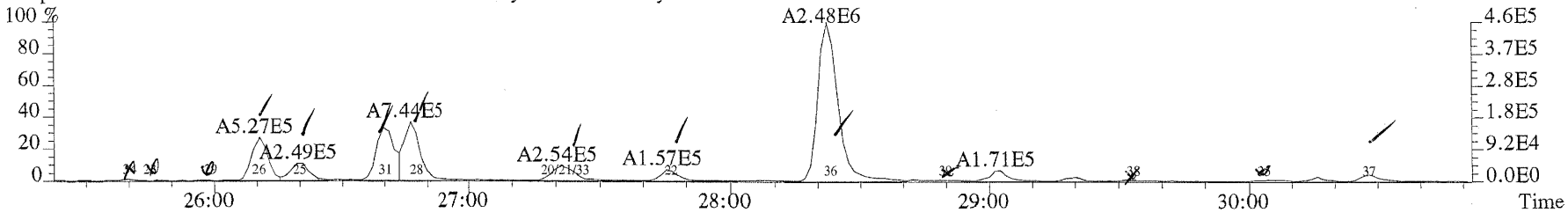
File:25JUL18Z #1-520 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



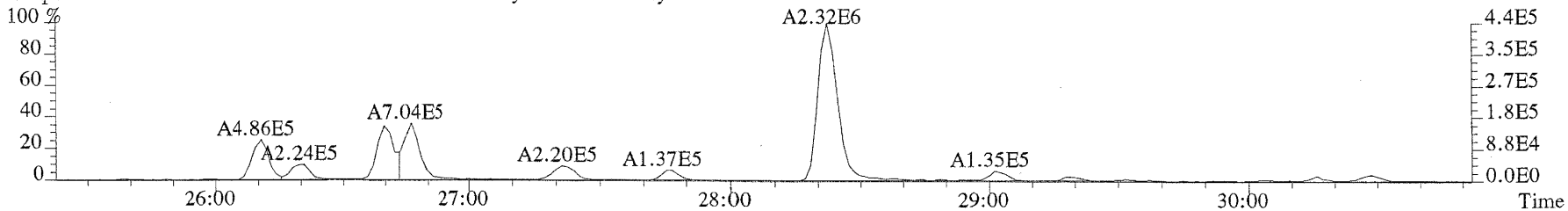
File:25JUL18Z #1-520 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



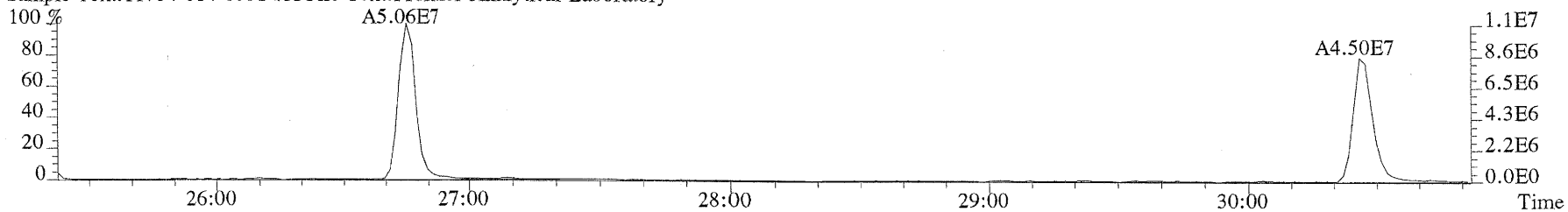
File:25JUL18Z #1-401 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



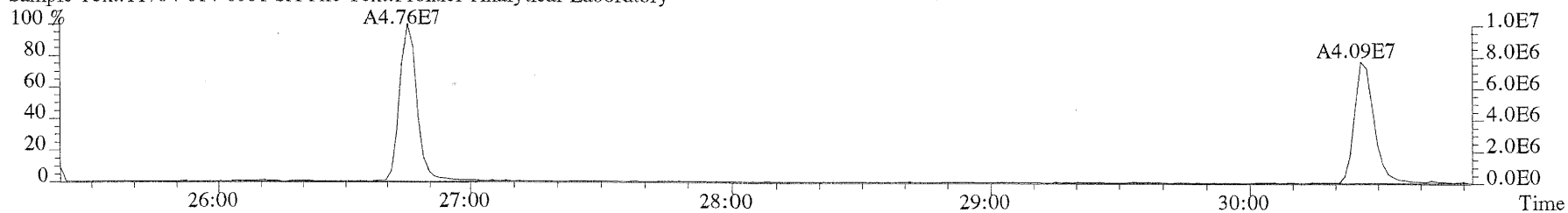
File:25JUL18Z #1-401 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



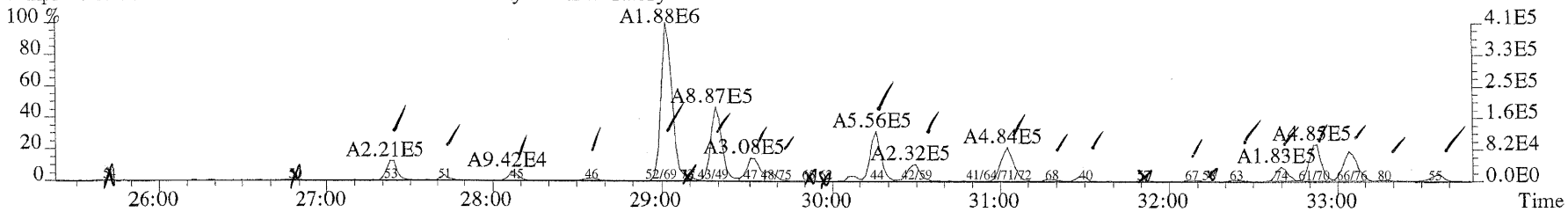
File:25JUL18Z #1-401 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



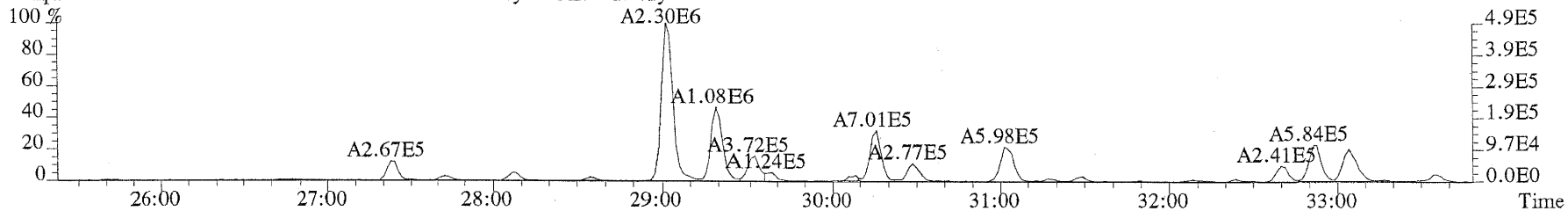
File:25JUL18Z #1-401 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



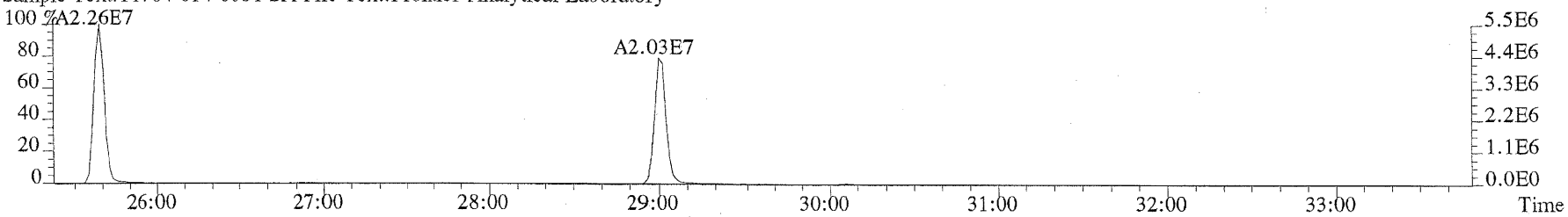
File:25JUL18Z #1-401 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



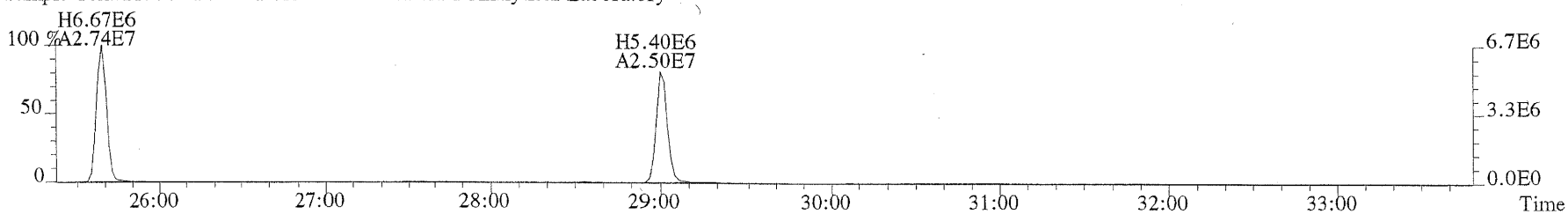
File:25JUL18Z #1-401 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



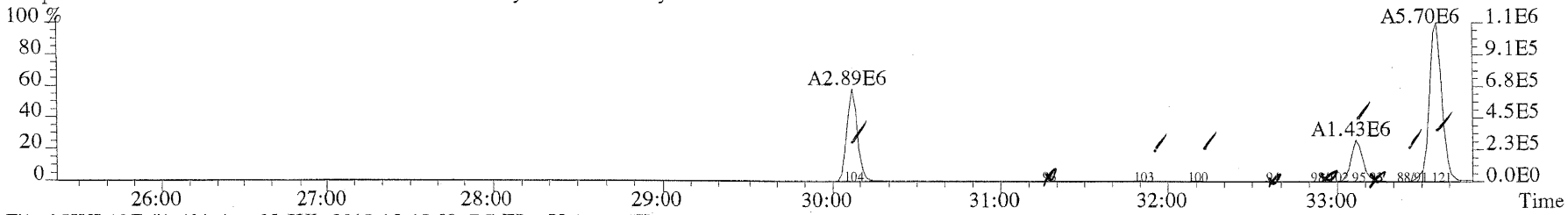
File:25JUL18Z #1-401 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



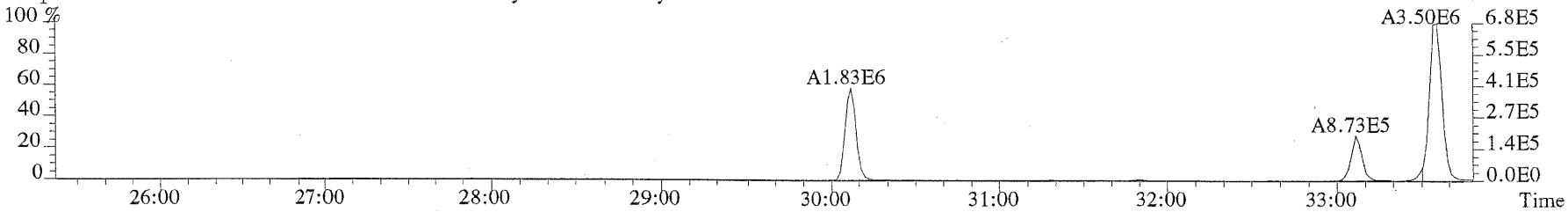
File:25JUL18Z #1-401 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



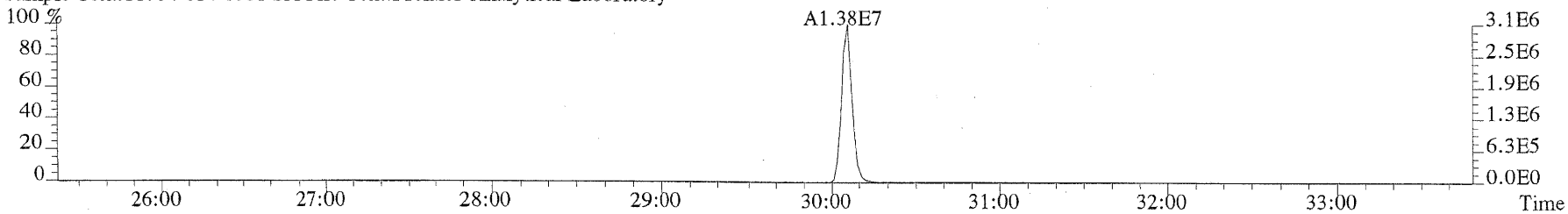
File:25JUL18Z #1-401 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



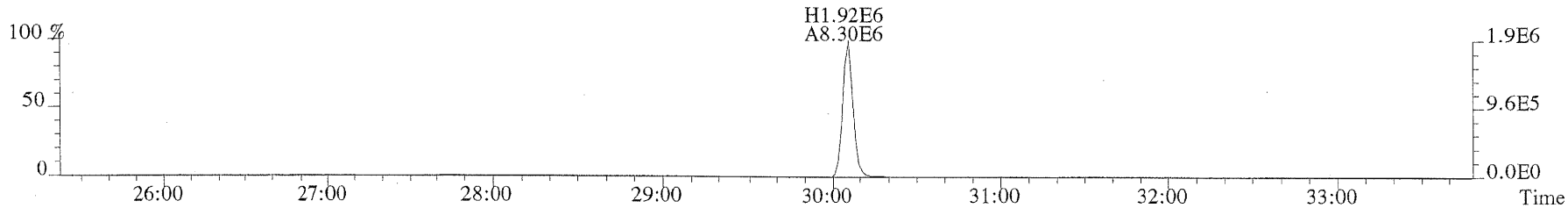
File:25JUL18Z #1-401 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



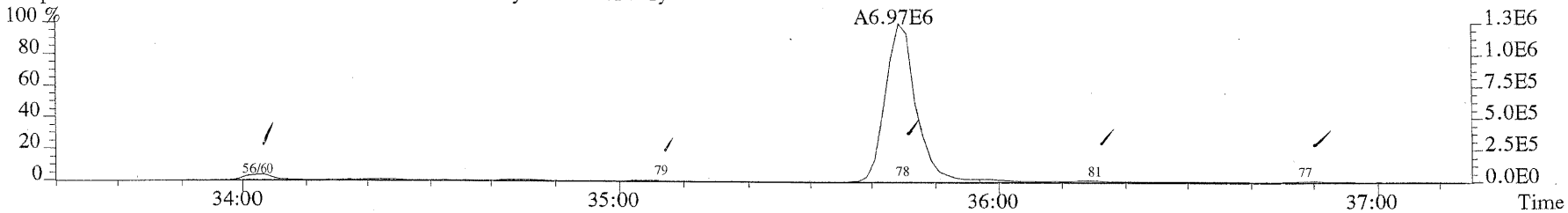
File:25JUL18Z #1-401 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



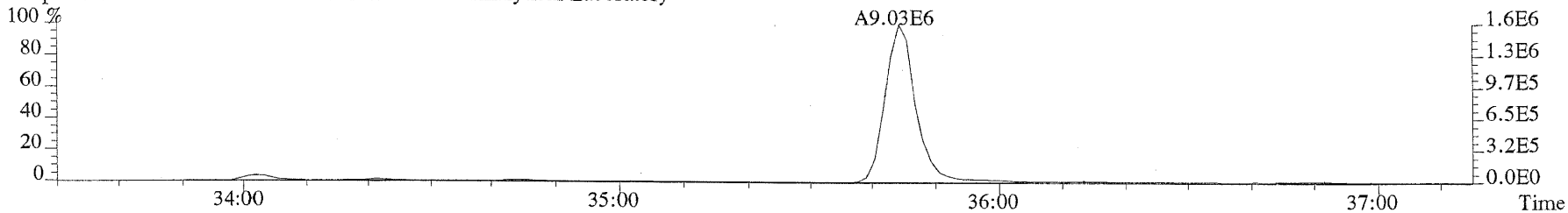
File:25JUL18Z #1-401 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



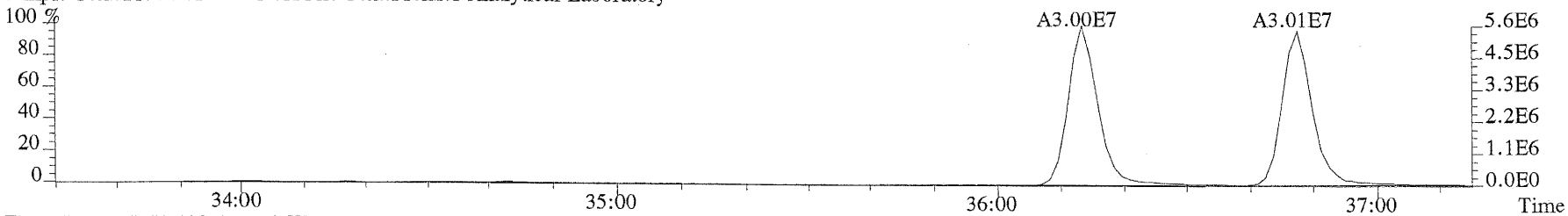
File:25JUL18Z #1-183 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



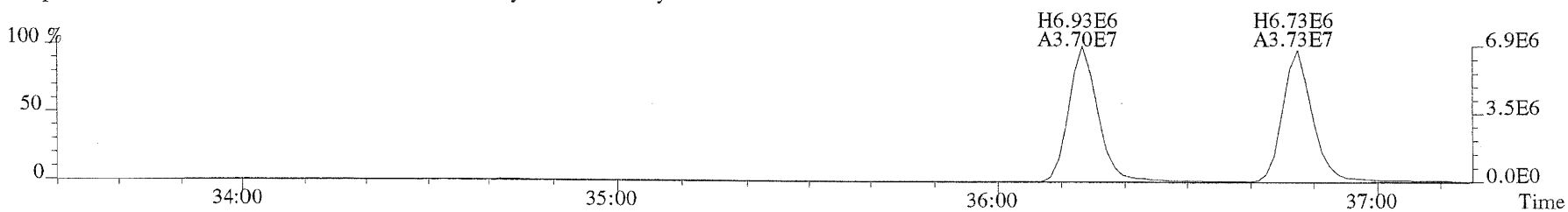
File:25JUL18Z #1-183 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



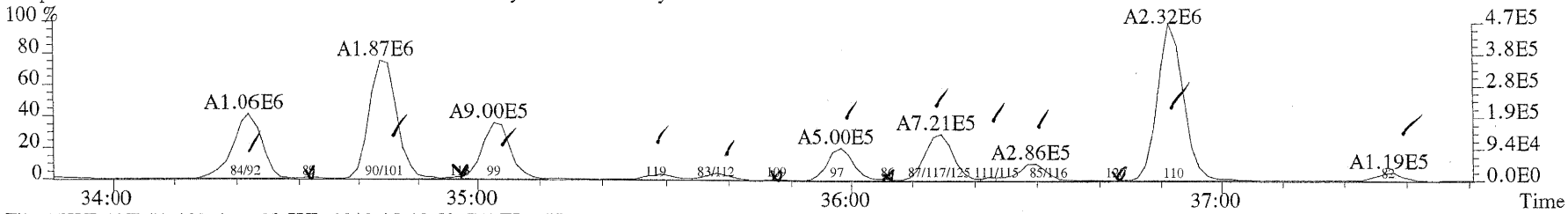
File:25JUL18Z #1-183 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



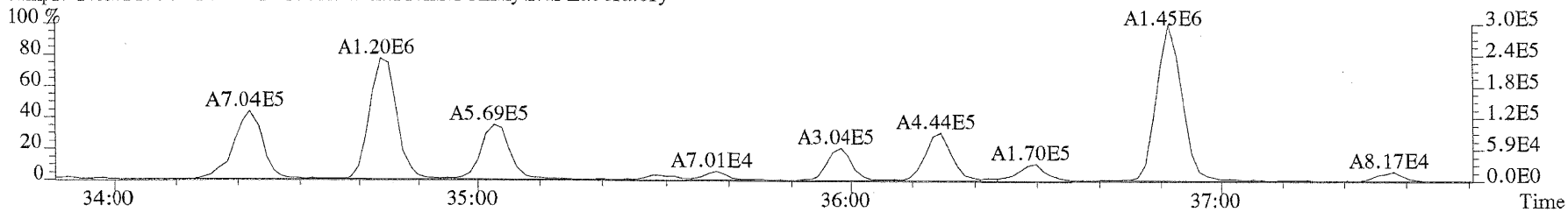
File:25JUL18Z #1-183 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



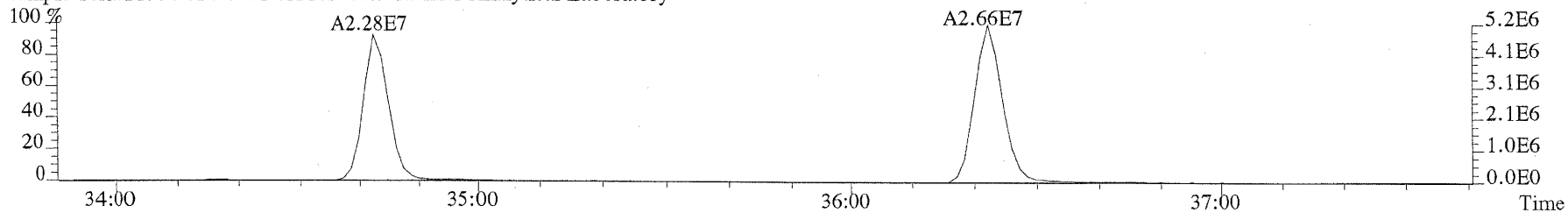
File:25JUL18Z #1-183 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



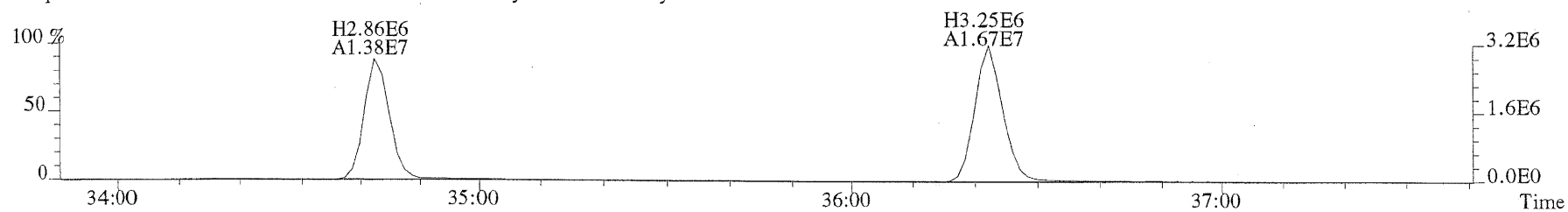
File:25JUL18Z #1-183 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



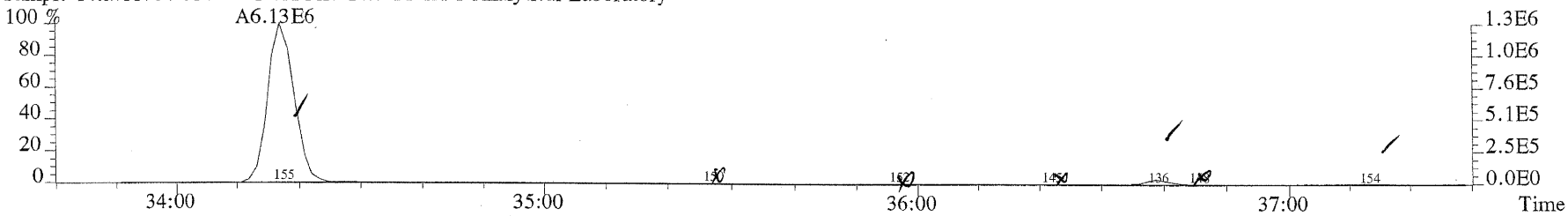
File:25JUL18Z #1-183 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



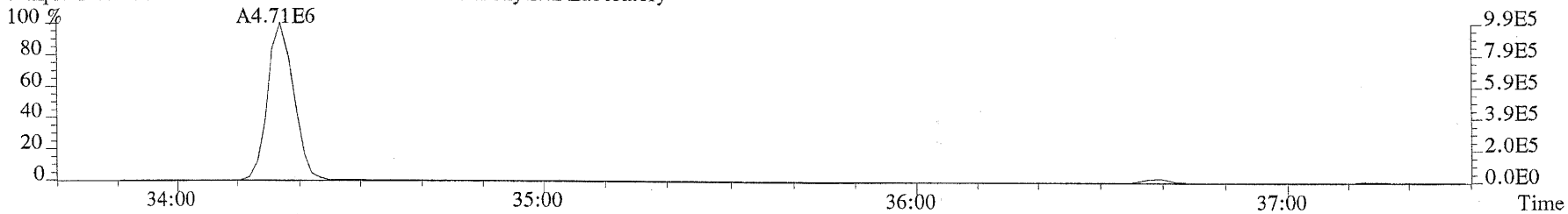
File:25JUL18Z #1-183 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



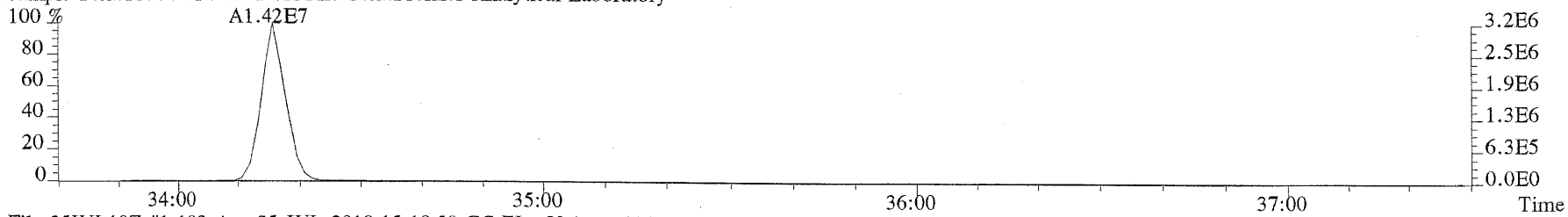
File:25JUL18Z #1-183 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



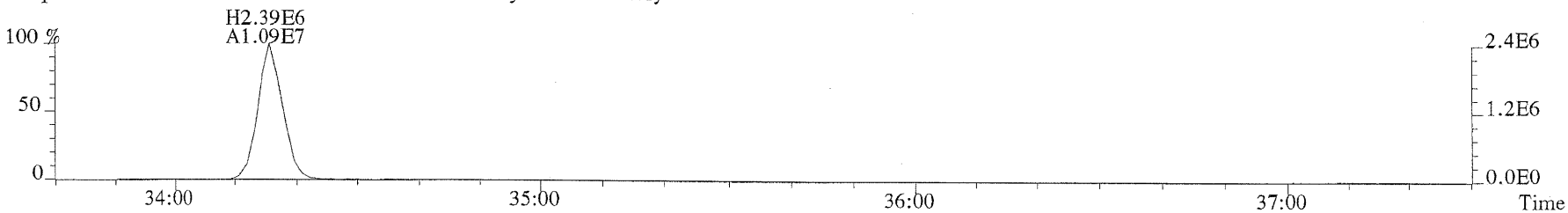
File:25JUL18Z #1-183 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



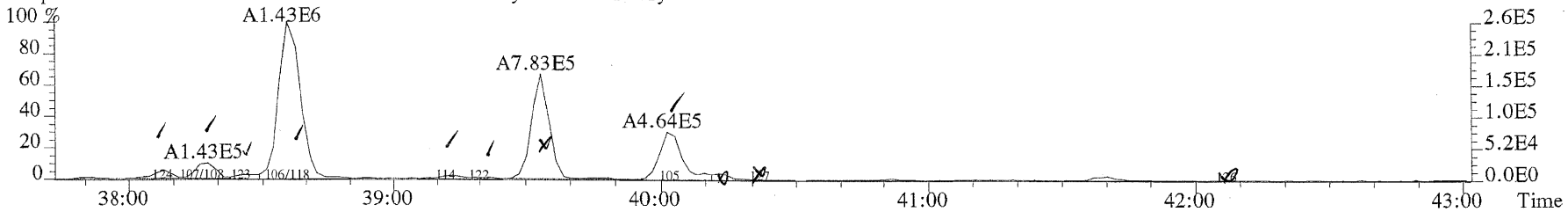
File:25JUL18Z #1-183 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



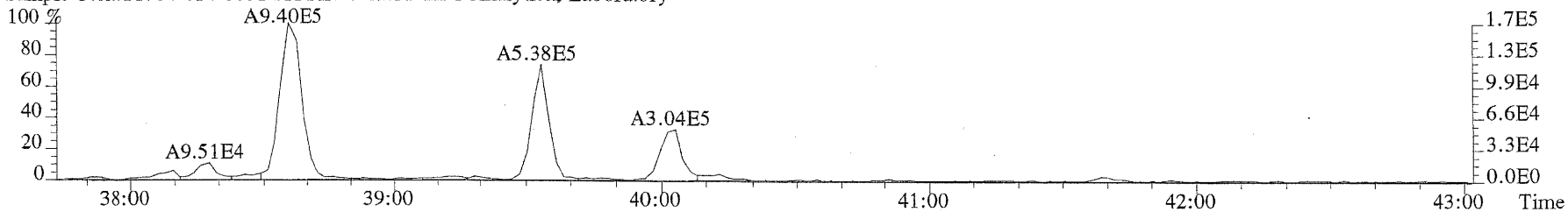
File:25JUL18Z #1-183 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



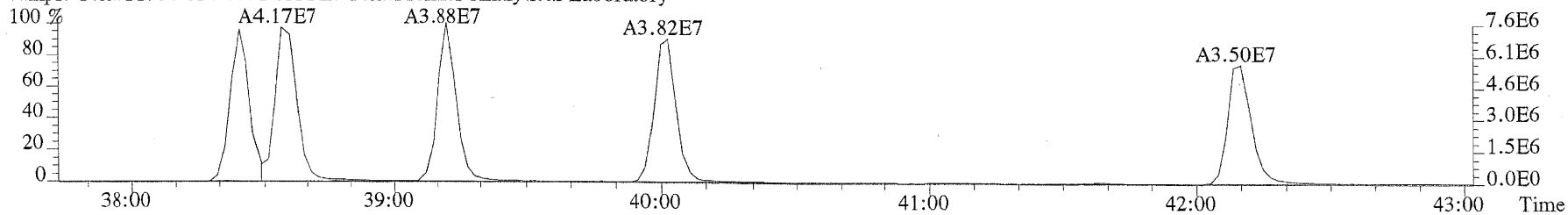
File:25JUL18Z #1-404 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



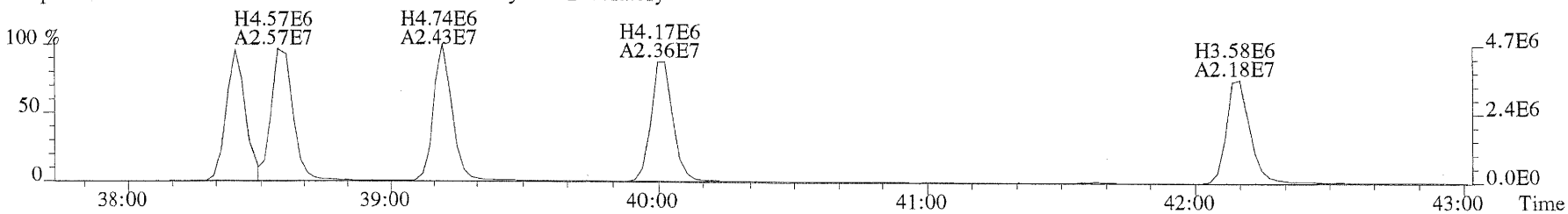
File:25JUL18Z #1-404 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



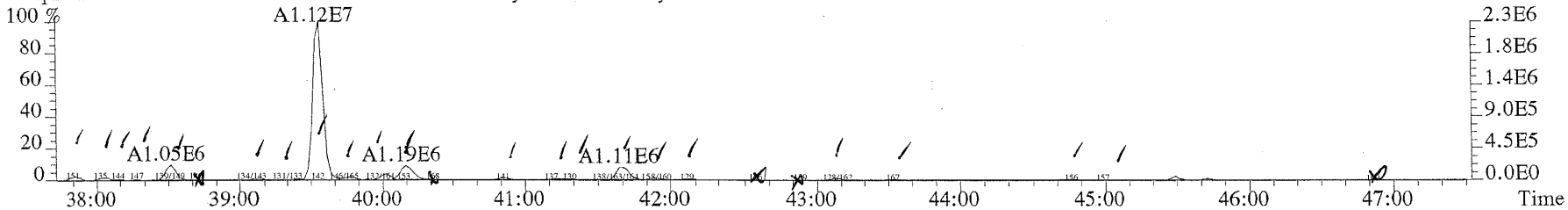
File:25JUL18Z #1-404 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



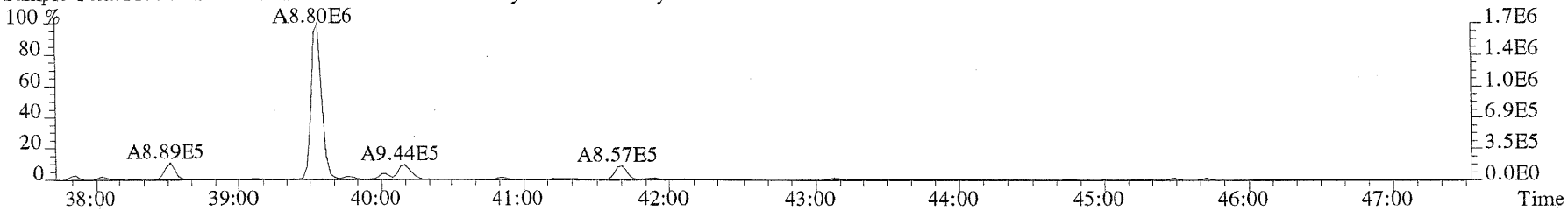
File:25JUL18Z #1-404 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



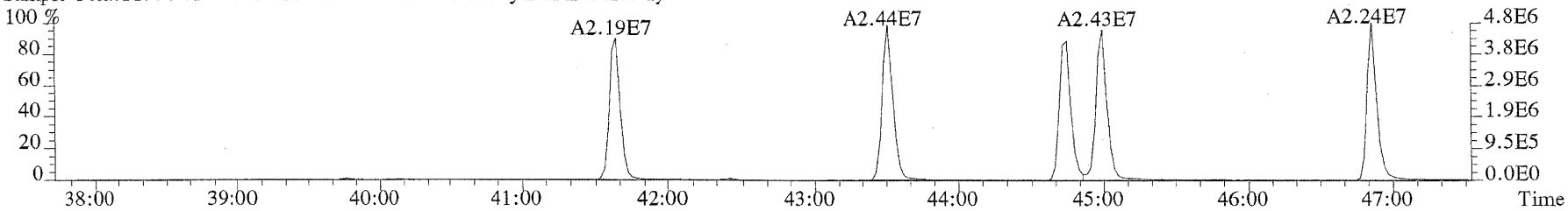
File:25JUL18Z #1-404 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



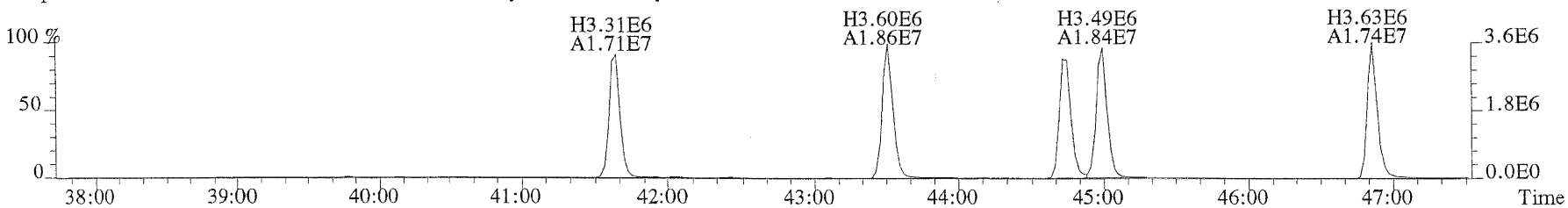
File:25JUL18Z #1-404 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



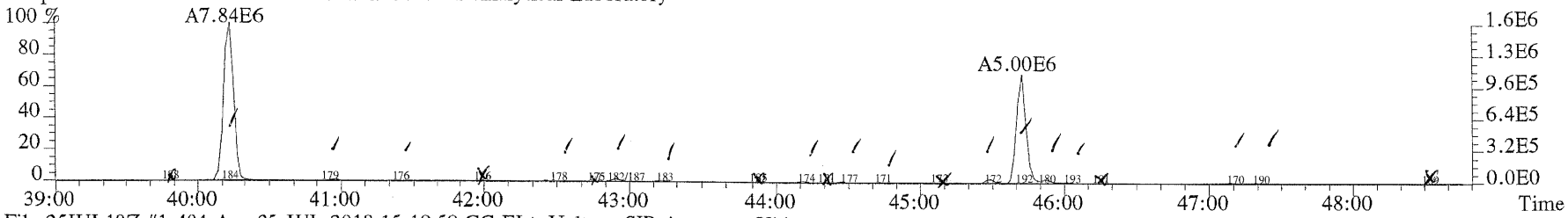
File:25JUL18Z #1-404 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



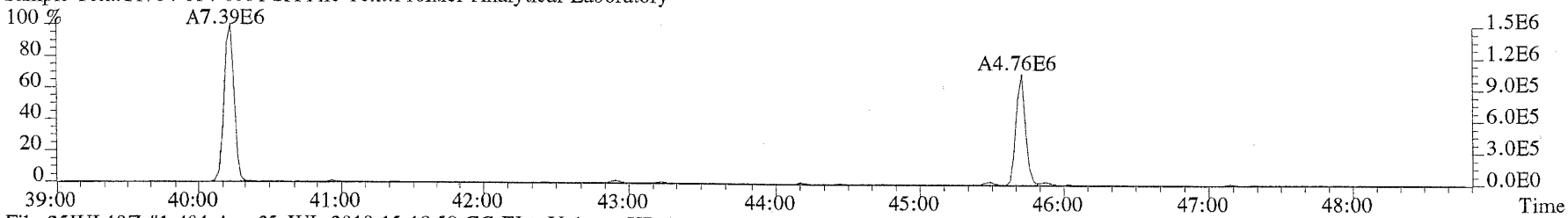
File:25JUL18Z #1-404 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



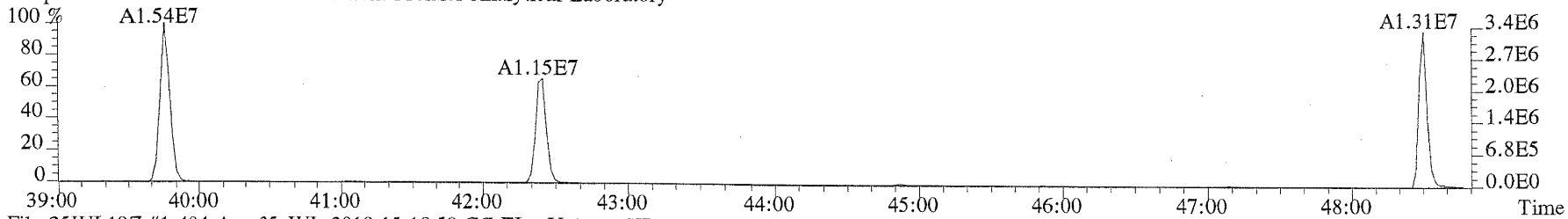
File:25JUL18Z #1-404 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



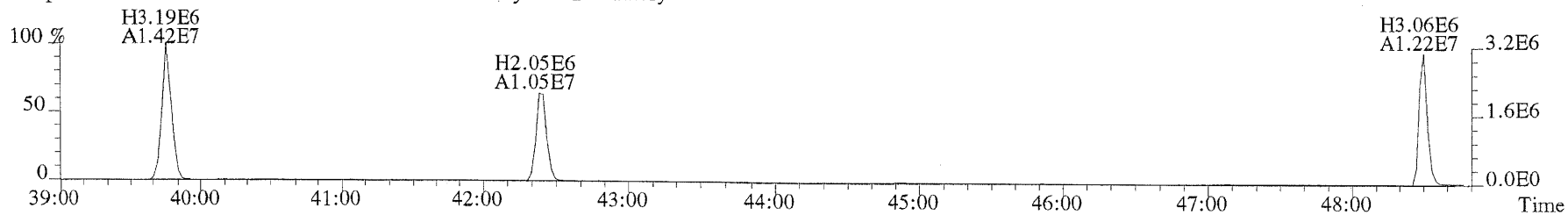
File:25JUL18Z #1-404 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



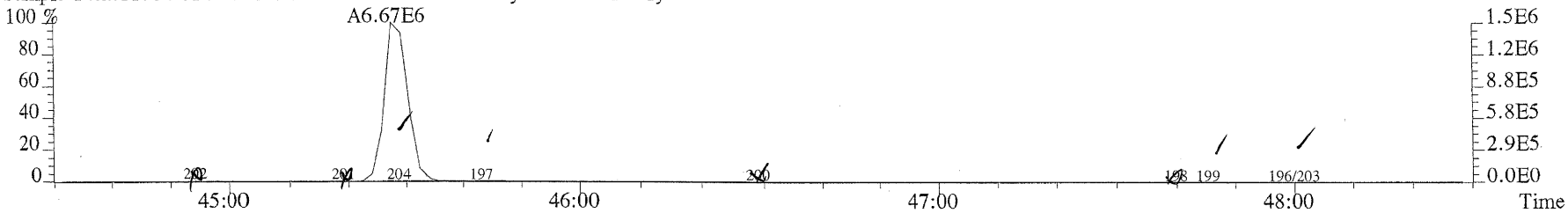
File:25JUL18Z #1-404 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



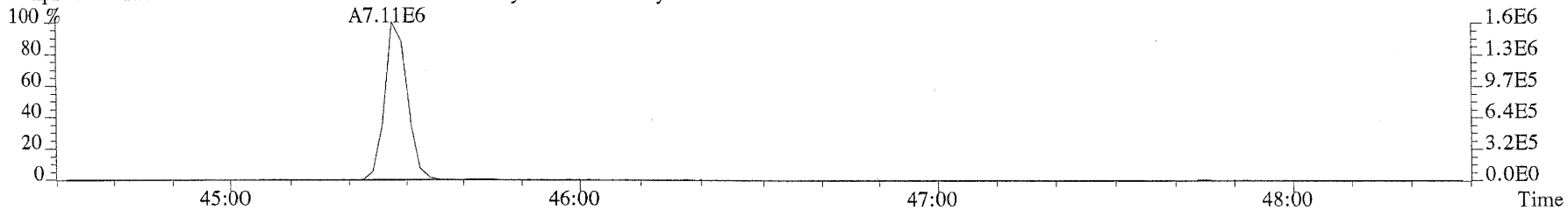
File:25JUL18Z #1-404 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



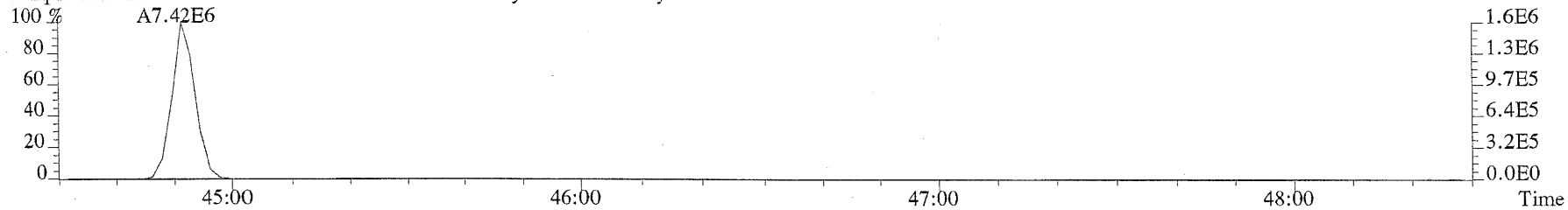
File:25JUL18Z #1-404 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



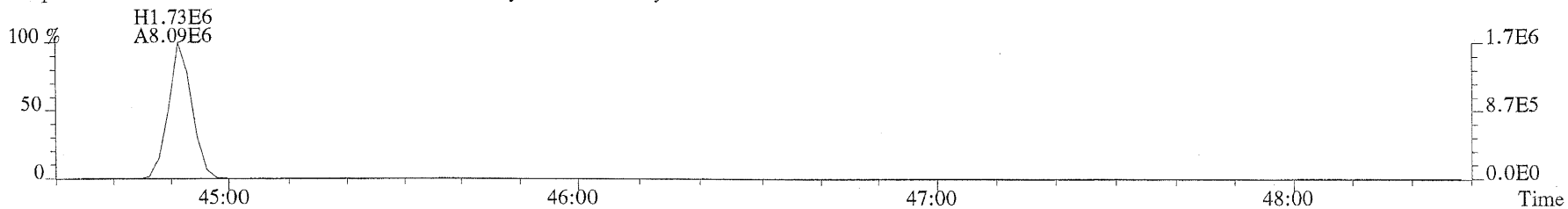
File:25JUL18Z #1-404 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



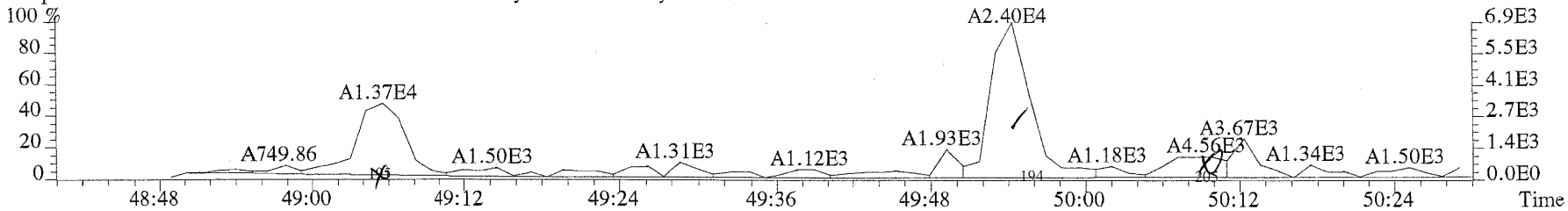
File:25JUL18Z #1-404 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



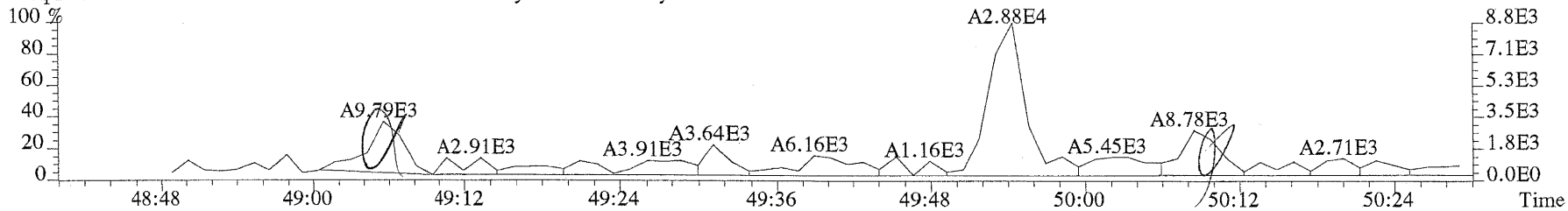
File:25JUL18Z #1-404 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



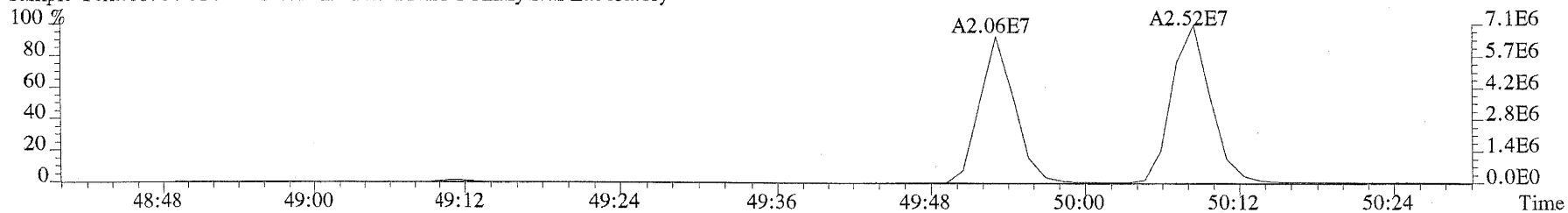
File:25JUL18Z #1-314 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



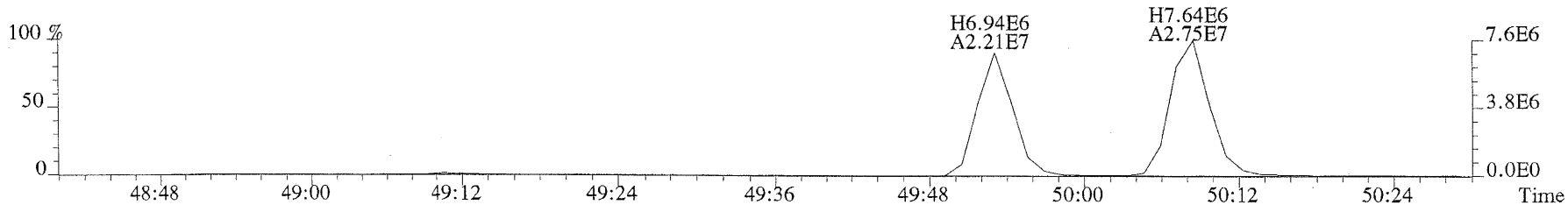
File:25JUL18Z #1-314 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



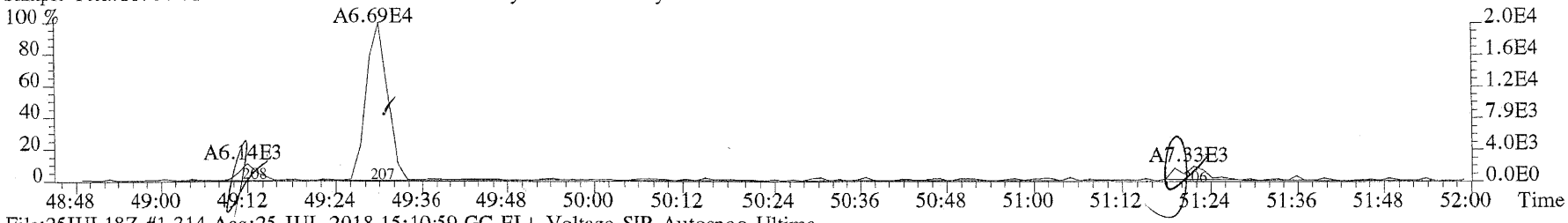
File:25JUL18Z #1-314 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



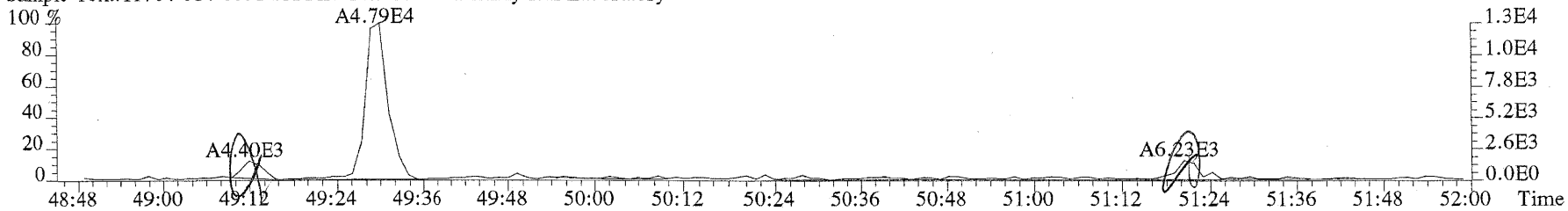
File:25JUL18Z #1-314 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



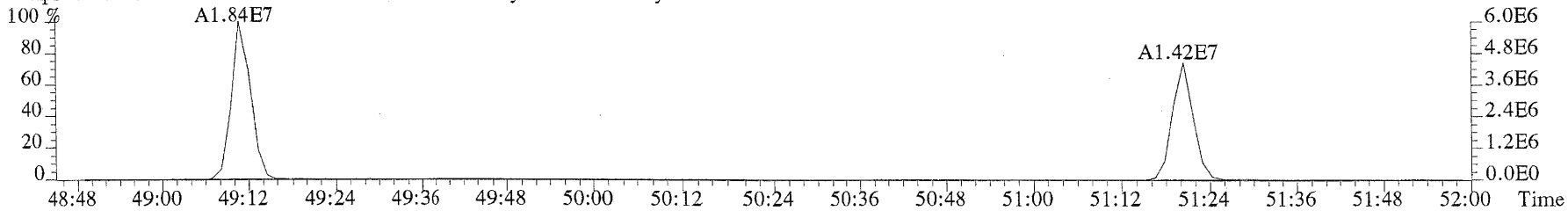
File:25JUL18Z #1-314 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



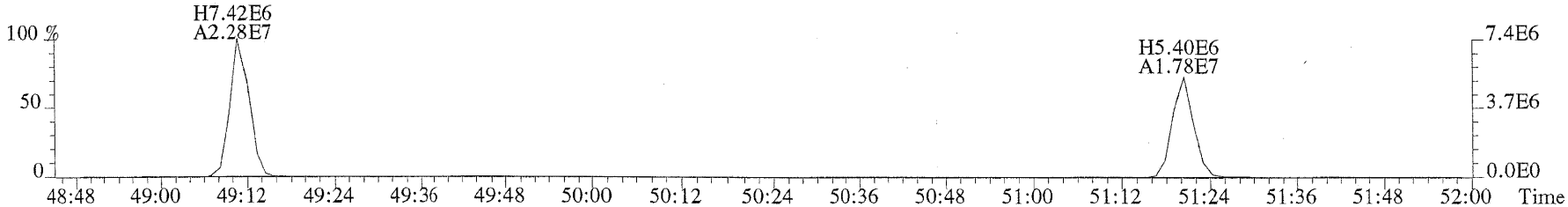
File:25JUL18Z #1-314 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



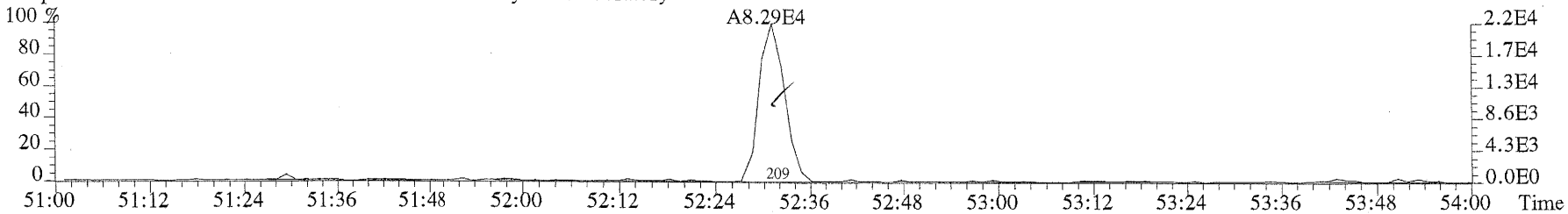
File:25JUL18Z #1-314 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



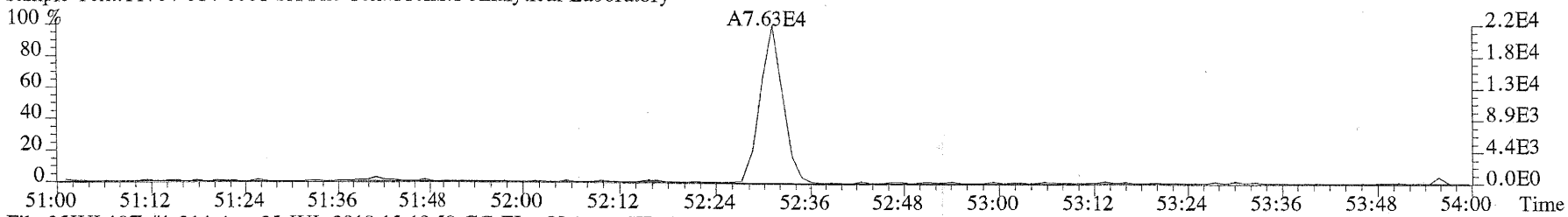
File:25JUL18Z #1-314 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



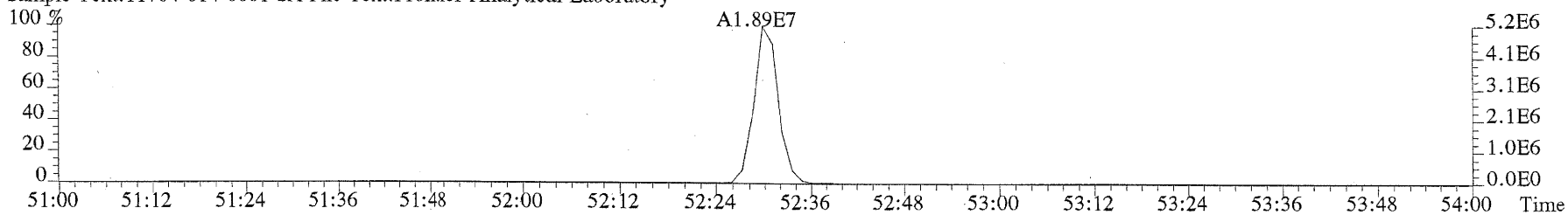
File:25JUL18Z #1-314 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



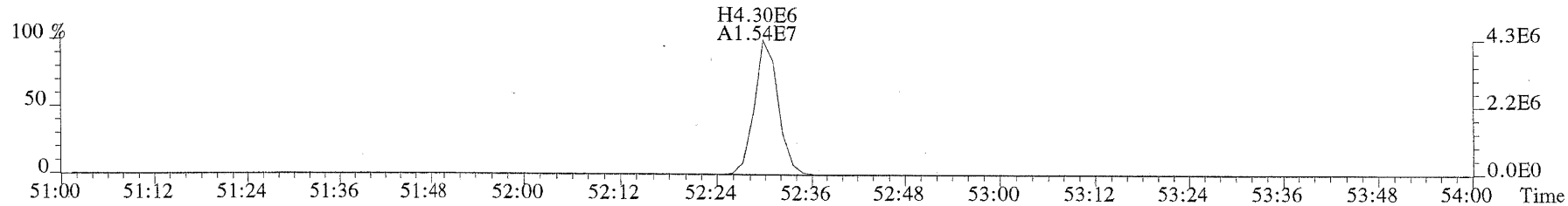
File:25JUL18Z #1-314 Acq:25-JUL-2018 15:10:59 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-014-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 15:10:59 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:11704-014-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 15:10:59 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:11704-014-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11704-015-0001-SA Filename: 25JUL18Z Sam:10 Acquired: 25-JUL-18 16:09:45 ICal: DAILY209FAL4-7-25-18
Client ID: LDW-Y1-IN-ENR-CC-S010 ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	* n	NotFnd	1.19	*		1840	1360	3.56			
13C-PCB-1	6.23e+07	3.24 y	14:33	0.80	8390					83.9	1.45e+07	4.43e+06
PCB-2	*	* n	NotFnd	1.10	*		1840	1360	3.87			
PCB-3	*	* n	NotFnd	1.17	*		1840	1360	3.67			
13C-PCB-3	6.56e+07	3.42 y	17:00	0.85	8400					84.0	1.42e+07	4.26e+06
PCB-4	2.46e+05	1.61 y	18:16	1.26	36.0		-	-	*			
PCB-10	*	* n	NotFnd	1.15	*		1240	2810	5.14			
13C-PCB-4	5.43e+07	1.60 y	18:14	0.63	9280					92.8	9.61e+06	5.92e+06
PCB-9	*	* n	NotFnd	1.28	*		1240	2810	4.60			
PCB-7	*	* n	NotFnd	1.30	*		1240	2810	4.53			
PCB-6	2.25e+05	1.45 y	20:34	1.28	25.6		-	-	*			
PCB-8	4.53e+05	1.59 y	20:56	1.28	51.3		-	-	*			
PCB-5	*	* n	NotFnd	1.29	*		1240	2810	4.56			
PCB-14	9.68e+05	1.45 y	22:01	1.23	114		-	-	*			
PCB-11	3.17e+05	1.54 y	23:09	1.20	38.3		-	-	*			
PCB-13	*	* n	NotFnd	1.24	*		1240	2810	4.76			
PCB-12	*	* n	NotFnd	1.25	*		1240	2810	4.70			
PCB-15	2.87e+05	1.46 y	23:48	1.12	30.5		-	-	*			
13C-PCB-15	8.37e+07	1.62 y	23:47	0.95	9550					95.5	1.15e+07	7.03e+06
PCB-19	1.11e+05	1.18 y	22:09	1.26	28.7		-	-	*			
PCB-30	*	* n	NotFnd	1.70	*		1590	508	3.90			
PCB-18	6.79e+05	1.14 y	23:41	1.21	184		-	-	*			
PCB-17	3.00e+05	1.08 y	23:52	1.29	75.7		-	-	*			
PCB-27	1.02e+05	1.11 y	24:23	1.64	20.4		-	-	*			
PCB-24	7.82e+04	1.07 y	24:24	1.68	15.3	J	-	-	*			
PCB-16	1.70e+05	1.10 y	24:53	1.42	39.1		-	-	*			
PCB-32	2.09e+05	1.17 y	24:54	1.44	47.5		-	-	*			
13C-PCB-19	3.06e+07	1.08 y	22:07	0.40	8320					83.2	4.13e+06	3.80e+06
13C-PCB-9	9.22e+07	1.64 y	19:55	-	80.3							
PCB-34	*	* n	NotFnd	1.09	*		2320	1550	6.47			
PCB-23	*	* n	NotFnd	1.17	*		2320	1550	6.00			
PCB-29	*	* n	NotFnd	1.18	*		2320	1550	6.00			
PCB-26	8.04e+05	1.03 y	26:10	1.12	95.5		-	-	*			
PCB-25	4.02e+05	1.02 y	26:19	1.38	38.7		-	-	*			
PCB-31	1.27e+06	1.05 y	26:40	1.10	152		-	-	*			
PCB-28	1.37e+06	1.05 y	26:46	1.34	136		-	-	*			
PCB-20	4.71e+05	0.95 y	27:23	1.19	52.6		-	-	*		Co-elute PCB 21/33	
PCB-21	4.71e+05	0.95 y	27:23	1.19	52.6		-	-	*		Co-elute PCB 20/33	
PCB-33	4.71e+05	0.95 y	27:23	1.19	52.6		-	-	*		Co-elute PCB 20/21	
PCB-22	3.10e+05	1.05 y	27:47	1.17	35.3		-	-	*			
PCB-36	3.69e+06	1.04 y	28:22	1.09	450		-	-	*			
PCB-39	*	* n	NotFnd	1.13	*		2320	1550	6.22			
PCB-38	*	* n	NotFnd	1.17	*		2320	1550	6.04			
PCB-35	*	* n	NotFnd	1.04	*		2320	1550	6.77			
PCB-37	1.86e+05	1.03 y	30:28	1.23	20.1		-	-	*			
13C-PCB-37	7.53e+07	1.10 y	30:27	1.68	10700					107	7.21e+06	6.52e+06

PCB-54	*	*	n	NotFnd	1.19	*		664	876	3.05			
PCB-50	3.11e+04	0.80	y	26:47	0.90	8.12	J	-	-	*			
PCB-53	3.48e+05	0.79	y	27:23	0.91	89.6		-	-	*			
PCB-51	1.02e+05	0.72	y	27:43	0.93	25.9		-	-	*			
PCB-45	1.73e+05	0.82	y	28:07	0.78	51.6		-	-	*			
PCB-46	6.77e+04	0.73	y	28:36	0.77	20.7		-	-	*			
PCB-52	2.88e+06	0.80	y	29:02	1.08	624		-	-	*	Co-elute PCB 69		
PCB-69	2.88e+06	0.80	y	29:02	1.08	624		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.19	*		664	876	3.06			
PCB-43	1.42e+06	0.81	y	29:19	0.88	381		-	-	*	Co-elute PCB 49		
PCB-49	1.42e+06	0.81	y	29:19	0.88	381		-	-	*	Co-elute PCB 43		
PCB-47	5.39e+05	0.81	y	29:31	1.15	110		-	-	*			
PCB-48	2.12e+05	0.79	y	29:37	1.06	46.7		-	-	*	Co-elute PCB 75		
PCB-75	2.12e+05	0.79	y	29:37	1.06	46.7		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.09	*		664	876	3.32			
PCB-62	*	*	n	NotFnd	1.15	*		664	876	3.17			
PCB-44	9.34e+05	0.84	y	30:16	0.82	268		-	-	*			
PCB-42	4.27e+05	0.74	y	30:30	1.06	94.1		-	-	*	Co-elute PCB 59		
PCB-59	4.27e+05	0.74	y	30:30	1.06	94.1		-	-	*	Co-elute PCB 42		
PCB-72	9.24e+05	0.79	y	31:02	1.15	189		-	-	*	Co-elute PCB 41/71/64		
PCB-41	9.24e+05	0.79	y	31:02	1.15	189		-	-	*	Co-elute PCB 72/71/64		
PCB-71	9.24e+05	0.79	y	31:02	1.15	189		-	-	*	Co-elute PCB 72/41/64		
PCB-64	9.24e+05	0.79	y	31:02	1.15	189		-	-	*	Co-elute PCB 72/41/71		
PCB-68	6.22e+04	0.86	y	31:16	1.25	11.6	J	-	-	*			
PCB-40	1.35e+05	0.88	y	31:29	0.71	45.0		-	-	*			
PCB-57	2.51e+04	0.71	y	31:51	1.13	5.18	J	-	-	*			
PCB-67	4.78e+04	0.74	y	32:07	1.12	10.0	J	-	-	*			
PCB-58	*	*	n	NotFnd	1.18	*		664	876	3.08			
PCB-63	4.26e+04	0.85	y	32:23	1.14	8.80	J	-	-	*			
PCB-74	3.88e+05	0.82	y	32:40	1.21	75.1		-	-	*			
PCB-61	8.51e+05	0.80	y	32:51	1.23	162		-	-	*	Co-elute PCB 70		
PCB-70	8.51e+05	0.80	y	32:51	1.23	162		-	-	*	Co-elute PCB 61		
PCB-76	8.99e+05	0.79	y	33:04	1.21	175		-	-	*	Co-elute PCB 66		
PCB-66	8.99e+05	0.79	y	33:04	1.21	175		-	-	*	Co-elute PCB 76		
PCB-80	4.80e+04	0.71	y	33:17	1.30	8.65	J	-	-	*			
PCB-55	2.02e+05	0.84	y	33:35	1.20	39.6		-	-	*			
13C-PCB-54	4.26e+07	0.82	y	25:39	1.11	9190					91.9	4.76e+06	5.83e+06
PCB-104	4.21e+06	1.60	y	30:07	1.35	1580		-	-	*			
PCB-96	*	*	n	NotFnd	1.22	*		344	364	3.30			
PCB-103	3.43e+04	1.60	y	31:49	1.05	16.6	J	-	-	*			
PCB-100	*	*	n	NotFnd	1.07	*		344	364	3.76			
PCB-94	*	*	n	NotFnd	0.90	*		344	364	4.49			
PCB-98	*	*	n	NotFnd	0.54	*		344	364	7.46	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.54	*		344	364	7.46	Co-elute PCB 98		
PCB-95	1.36e+06	1.62	y	33:06	1.08	635		-	-	*			
PCB-93	*	*	n	NotFnd	0.98	*		344	364	4.10			
PCB-88	8.60e+04	1.72	y	33:29	1.06	41.2		-	-	*	Co-elute PCB 91		
PCB-91	8.60e+04	1.72	y	33:29	1.06	41.2		-	-	*	Co-elute PCB 88		
PCB-121	7.36e+06	1.65	y	33:35	1.10	3390		-	-	*			
13C-PCB-104	1.98e+07	1.62	y	30:06	0.50	9420					94.2	2.79e+06	1.63e+06
13C-PCB-28	8.14e+07	1.07	y	26:45	1.97	9930					99.3	9.31e+06	8.76e+06
13C-PCB-52	4.17e+07	0.82	y	29:00	-	74.3							

PCB-56	4.41e+05	0.76	y	34:02	1.08	72.9		-	-	*			Co-elute PCB 60
PCB-60	4.41e+05	0.76	y	34:02	1.08	72.9		-	-	*			Co-elute PCB 56
PCB-79	4.78e+04	0.77	y	35:02	1.14	7.50	J	-	-	*			
PCB-78	1.19e+07	0.80	y	35:44	1.09	1950		-	-	*			
PCB-81	1.27e+05	0.75	y	36:15	1.14	19.8	J	-	-	*			
13C-PCB-81	5.57e+07	0.81	y	36:13	1.57	10800					108	4.48e+06	5.47e+06
PCB-77	6.86e+04	0.81	y	36:47	1.11	11.0	J	-	-	*			
13C-PCB-77	5.64e+07	0.80	y	36:47	1.61	10600					106	4.33e+06	5.31e+06
PCB-155	8.59e+06	1.31	y	34:17	1.24	3210		-	-	*			
PCB-150	*	*	n	NotFnd	1.13	*		364	188	2.59			
PCB-152	*	*	n	NotFnd	1.06	*		364	188	2.75			
PCB-145	*	*	n	NotFnd	1.10	*		364	188	2.64			
PCB-136	1.90e+05	1.21	y	36:39	1.06	83.1		-	-	*			
PCB-148	*	*	n	NotFnd	0.84	*		364	188	3.47			
PCB-154	3.80e+04	1.26	y	37:13	0.97	18.0	J	-	-	*			
13C-PCB-155	2.16e+07	1.31	y	34:16	0.67	9730					97.3	2.72e+06	2.02e+06
13C-PCB-111	3.46e+07	1.63	y	36:22	1.16	9060					90.6	4.25e+06	2.60e+06
13C-PCB-101	3.30e+07	1.62	y	34:42	-	69.8							
PCB-84	1.12e+06	1.61	y	34:22	0.61	351		-	-	*			Co-elute PCB 92
PCB-92	1.12e+06	1.61	y	34:22	0.61	351		-	-	*			Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.58	*		500	410	3.95			
PCB-90	1.88e+06	1.61	y	34:43	0.68	527		-	-	*			Co-elute PCB 101
PCB-101	1.88e+06	1.61	y	34:43	0.68	527		-	-	*			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.77	*		500	410	2.99			
PCB-99	9.43e+05	1.64	y	35:02	0.75	241		-	-	*			
PCB-119	8.56e+04	1.34	y	35:29	0.81	20.1		-	-	*			
PCB-83	1.29e+05	1.56	y	35:38	0.69	35.7		-	-	*			Co-elute PCB 112
PCB-112	1.29e+05	1.56	y	35:38	0.69	35.7		-	-	*			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.82	*		500	410	2.80			
PCB-97	4.75e+05	1.59	y	35:58	0.73	125		-	-	*			
PCB-86	*	*	n	NotFnd	0.70	*		500	410	3.26			
PCB-125	6.48e+05	1.56	y	36:13	0.72	171		-	-	*			Co-elute PCB 87/117
PCB-87	6.48e+05	1.56	y	36:13	0.72	171		-	-	*			Co-elute PCB 125/117
PCB-117	6.48e+05	1.56	y	36:13	0.72	171		-	-	*			Co-elute PCB 125/87
PCB-111	4.01e+04	1.50	y	36:23	0.99	7.69	J	-	-	*			Co-elute PCB 115
PCB-115	4.01e+04	1.50	y	36:23	0.99	7.69	J	-	-	*			Co-elute PCB 111
PCB-85	2.59e+05	1.49	y	36:28	0.71	69.7		-	-	*			Co-elute PCB 116
PCB-116	2.59e+05	1.49	y	36:28	0.71	69.7		-	-	*			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.81	*		500	410	2.82			
PCB-110	2.23e+06	1.60	y	36:51	0.96	444		-	-	*			
PCB-82	1.24e+05	1.62	y	37:27	0.50	47.6		-	-	*			
PCB-124	8.24e+04	1.41	y	38:08	0.91	17.4	J	-	-	*			
PCB-108	1.40e+05	1.34	y	38:16	1.07	24.9		-	-	*			Co-elute PCB 107
PCB-107	1.40e+05	1.34	y	38:16	1.07	24.9		-	-	*			Co-elute PCB 108
PCB-123	3.46e+04	1.44	y	38:26	1.23	5.64	J	-	-	*			
13C-PCB-123	4.97e+07	1.62	y	38:24	1.40	10300					103	6.03e+06	3.67e+06
PCB-118	1.49e+06	1.56	y	38:36	1.03	257		-	-	*			Co-elute PCB 106
PCB-106	1.49e+06	1.56	y	38:36	1.03	257		-	-	*			Co-elute PCB 118
13C-PCB-118	5.61e+07	1.59	y	38:34	1.53	10600					106	6.40e+06	4.02e+06
PCB-114	3.41e+04	1.49	y	39:14	1.07	6.07	J	-	-	*			
13C-PCB-114	5.26e+07	1.59	y	39:12	1.46	10500					105	6.17e+06	3.71e+06
PCB-122	*	*	n	NotFnd	1.10	*		948	620	3.60			
PCB-105	4.61e+05	1.65	y	40:01	1.08	83.7		-	-	*			
13C-PCB-105	5.11e+07	1.62	y	40:00	1.44	10300					103	5.96e+06	3.72e+06

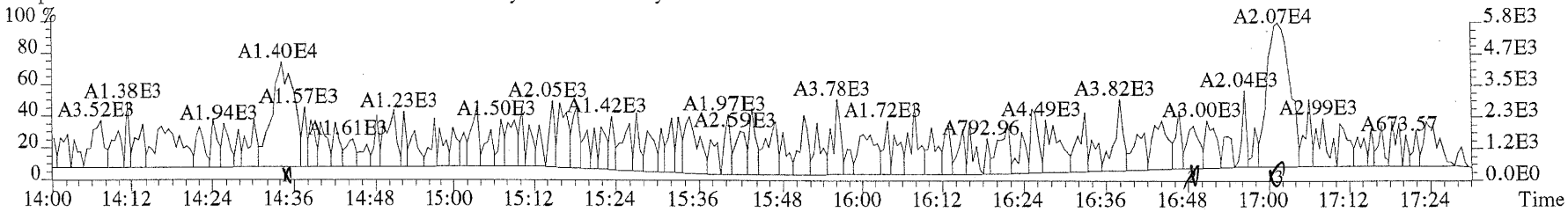
PCB-127	*	*	n	NotFnd	0.99	*		948	620	4.00				
PCB-126	*	*	n	NotFnd	1.12	*		948	620	4.21				
13C-PCB-126	4.97e+07	1.63	y	42:08	1.35	10700					107	5.14e+06	3.20e+06	
PCB-151	3.53e+05	1.20	y	37:50	0.85	119		-	-	*				
PCB-135	2.13e+05	1.20	y	38:03	0.82	74.2		-	-	*				
PCB-144	6.92e+04	1.20	y	38:09	0.93	21.3		-	-	*				
PCB-147	4.29e+04	1.25	y	38:18	0.92	13.3	J	-	-	*				
PCB-139	1.28e+06	1.29	y	38:31	0.98	374		-	-	*		Co-elute PCB 149		
PCB-149	1.28e+06	1.29	y	38:31	0.98	374		-	-	*		Co-elute PCB 139		
PCB-140	1.86e+04	1.17	y	38:44	0.95	5.58	J	-	-	*				
PCB-143	9.03e+04	1.23	y	39:05	0.90	28.8		-	-	*		Co-elute PCB 134		
PCB-134	9.03e+04	1.23	y	39:05	0.90	28.8		-	-	*		Co-elute PCB 143		
PCB-131	3.52e+04	1.15	y	39:24	0.90	11.1	J	-	-	*		Co-elute PCB 133		
PCB-133	3.52e+04	1.15	y	39:24	0.90	11.1	J	-	-	*		Co-elute PCB 131		
PCB-142	1.47e+07	1.29	y	39:32	0.77	5440		-	-	*				
PCB-165	3.10e+05	1.34	y	39:47	1.05	84.4		-	-	*		Co-elute PCB 146		
PCB-146	3.10e+05	1.34	y	39:47	1.05	84.4		-	-	*		Co-elute PCB 165		
PCB-161	4.45e+05	1.16	y	40:00	1.00	128		-	-	*		Co-elute PCB 132		
PCB-132	4.45e+05	1.16	y	40:00	1.00	128		-	-	*		Co-elute PCB 161		
PCB-153	1.43e+06	1.26	y	40:10	1.01	405		-	-	*				
PCB-168	*	*	n	NotFnd	1.15	*		630	620	4.07				
PCB-141	1.70e+05	1.21	y	40:51	0.89	54.6		-	-	*				
PCB-137	5.43e+04	1.32	y	41:12	0.90	17.2	J	-	-	*				
PCB-130	8.31e+04	1.25	y	41:19	0.76	31.3		-	-	*				
PCB-138	1.23e+06	1.25	y	41:40	1.17	300		-	-	*		Co-elute PCB 163/164		
PCB-163	1.23e+06	1.25	y	41:40	1.17	300		-	-	*		Co-elute PCB 138/164		
PCB-164	1.23e+06	1.25	y	41:40	1.17	300		-	-	*		Co-elute PCB 138/163		
PCB-158	1.58e+05	1.18	y	41:52	1.18	38.2		-	-	*		Co-elute PCB 160		
PCB-160	1.58e+05	1.18	y	41:52	1.18	38.2		-	-	*		Co-elute PCB 158		
PCB-129	4.44e+04	1.20	y	42:06	0.77	16.6	J	-	-	*				
PCB-166	*	*	n	NotFnd	1.08	*		630	620	4.35				
PCB-159	*	*	n	NotFnd	1.19	*		630	620	3.94				
PCB-128	1.51e+05	1.10	y	43:07	0.98	44.1		-	-	*		Co-elute PCB 162		
PCB-162	1.51e+05	1.10	y	43:07	0.98	44.1		-	-	*		Co-elute PCB 128		
PCB-167	4.15e+04	1.06	y	43:30	1.05	11.0	J	-	-	*				
13C-PCB-167	3.59e+07	1.29	y	43:30	1.12	9310					93.1	3.75e+06	2.85e+06	
PCB-156	8.35e+04	1.26	y	44:45	1.11	22.1		-	-	*				
13C-PCB-156	3.42e+07	1.30	y	44:43	1.07	9250					92.5	3.65e+06	2.78e+06	
PCB-157	*	*	n	NotFnd	1.14	*		630	620	4.24				
13C-PCB-157	3.53e+07	1.30	y	44:58	1.12	9190					91.9	3.59e+06	2.84e+06	
PCB-169	*	*	n	NotFnd	1.07	*		630	620	4.06				
13C-PCB-169	3.44e+07	1.30	y	46:51	1.08	9240					92.4	4.07e+06	3.13e+06	

FAL ID: 11704-015-0001-SA Filename: 25JUL18Z Sam:10 Acquired: 25-JUL-18 16:09:45 ICal: DAILY209FAL4-7-25-18
Client ID: LDW-Y1-IN-ENR-CC-S010 ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

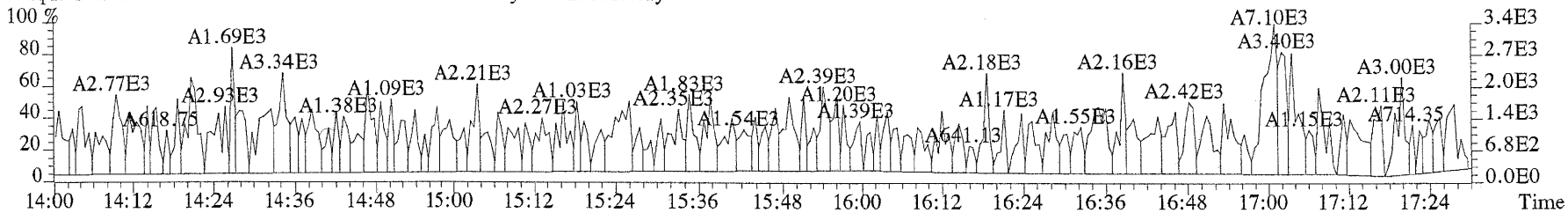
PCB-188	*	*	n	NotFnd	1.21	*		548	332	3.47			
13C-PCB-188	2.43e+07	1.09	y	39:45	0.80	8820					88.2	2.73e+06	2.51e+06
PCB-184	1.07e+07	1.07	y	40:11	1.25	3720		-	-	*			
PCB-179	1.05e+05	1.04	y	40:56	1.15	39.6		-	-	*			
PCB-176	3.90e+04	1.09	y	41:22	1.14	14.9	J	-	-	*			
PCB-186	*	*	n	NotFnd	1.19	*		548	332	3.49			
PCB-178	4.94e+04	1.10	y	42:25	0.83	26.0		-	-	*			
PCB-175	*	*	n	NotFnd	0.88	*		548	332	4.70			
PCB-187	1.69e+05	1.13	y	42:54	0.99	74.0		-	-	*		Co-elute PCB 182	
PCB-182	1.69e+05	1.13	y	42:54	0.99	74.0		-	-	*		Co-elute PCB 187	
PCB-183	9.39e+04	1.07	y	43:12	0.93	43.7		-	-	*			
PCB-185	*	*	n	NotFnd	0.88	*		548	332	4.70			
PCB-174	9.06e+04	1.11	y	44:10	0.89	44.2		-	-	*			
PCB-181	*	*	n	NotFnd	0.90	*		548	332	4.60			
PCB-177	6.14e+04	1.16	y	44:26	0.79	33.6		-	-	*			
PCB-171	3.62e+04	1.15	y	44:45	0.85	18.4	J	-	-	*			
PCB-173	*	*	n	NotFnd	0.80	*		548	332	5.18			
PCB-172	2.30e+05	1.19	y	45:29	0.80	126		-	-	*			
PCB-192	6.88e+06	1.07	y	45:42	1.11	2690		-	-	*			
PCB-180	2.25e+05	0.99	y	45:52	1.09	89.6		-	-	*			
PCB-193	*	*	n	NotFnd	1.16	*		548	332	3.58			
PCB-191	*	*	n	NotFnd	1.08	*		548	332	3.84			
PCB-170	6.00e+04	1.02	y	47:08	0.77	33.7		-	-	*			
PCB-190	2.32e+04	1.08	y	47:18	1.09	9.26	J	-	-	*			
PCB-189	*	*	n	NotFnd	1.17	*		548	332	3.53			
13C-PCB-189	2.18e+07	1.08	y	48:30	0.73	8690					86.9	2.79e+06	2.57e+06
PCB-202	*	*	n	NotFnd	1.03	*		176	236	3.45			
PCB-201	*	*	n	NotFnd	1.02	*		176	236	3.48			
PCB-204	9.69e+06	0.94	y	45:27	1.00	7270		-	-	*			
PCB-197	7.58e+04	0.93	y	45:44	1.08	52.5		-	-	*			
PCB-200	*	*	n	NotFnd	1.01	*		176	236	3.54			
PCB-198	*	*	n	NotFnd	0.74	*		176	236	4.79			
PCB-199	1.60e+04	0.85	y	47:44	0.84	14.3	J	-	-	*			
PCB-203	2.08e+04	0.96	y	48:00	0.87	18.1	J	-	-	*		Co-elute PCB 196	
PCB-196	2.08e+04	0.96	y	48:00	0.87	18.1	J	-	-	*		Co-elute PCB 203	
13C-PCB-202	1.33e+07	0.93	y	44:51	0.44	8840					88.4	1.39e+06	1.50e+06
13C-PCB-178	1.74e+07	1.09	y	42:23	0.60	8350					83.5	1.86e+06	1.72e+06
13C-PCB-138	3.44e+07	1.28	y	41:37	-	71.0							
PCB-195	*	*	n	NotFnd	0.71	*		528	1710	5.92			
PCB-194	4.90e+04	0.91	y	49:53	0.79	13.3	J	-	-	*			
PCB-205	*	*	n	NotFnd	1.07	*		528	1710	3.90			
13C-PCB-205	4.64e+07	0.92	y	50:08	1.23	8820					88.2	6.46e+06	6.93e+06
PCB-208	*	*	n	NotFnd	1.01	*		600	720	2.85			
13C-PCB-208	3.51e+07	0.80	y	49:11	0.97	8460					84.6	5.09e+06	6.37e+06
PCB-207	8.01e+04	1.25	y	49:30	0.98	25.3		-	-	*			
PCB-206	*	*	n	NotFnd	1.00	*		600	720	4.09			
13C-PCB-206	2.97e+07	0.81	y	51:20	0.88	7920					79.2	3.65e+06	4.40e+06
PCB-209	1.13e+05	0.99	y	52:31	1.12	33.3		-	-	*			
13C-PCB-209	3.03e+07	1.21	y	52:30	0.97	7330					73.3	4.45e+06	3.78e+06
13C-PCB-194	4.28e+07	0.92	y	49:53	-	78.8							

Analyst: [illegible] Date: 8/20/18

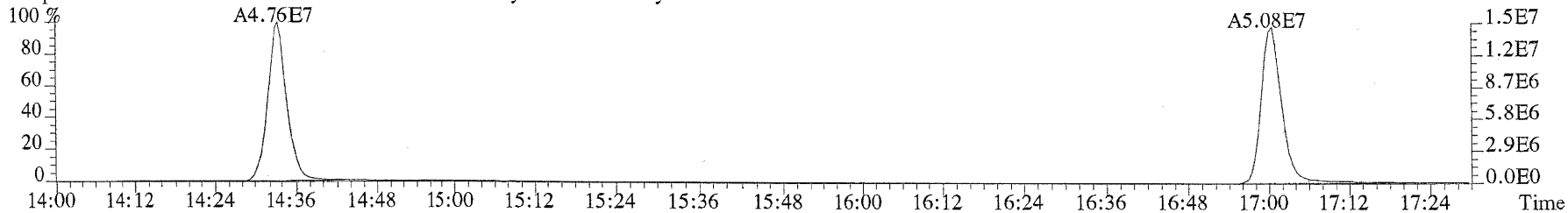
File:25JUL18Z #1-783 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



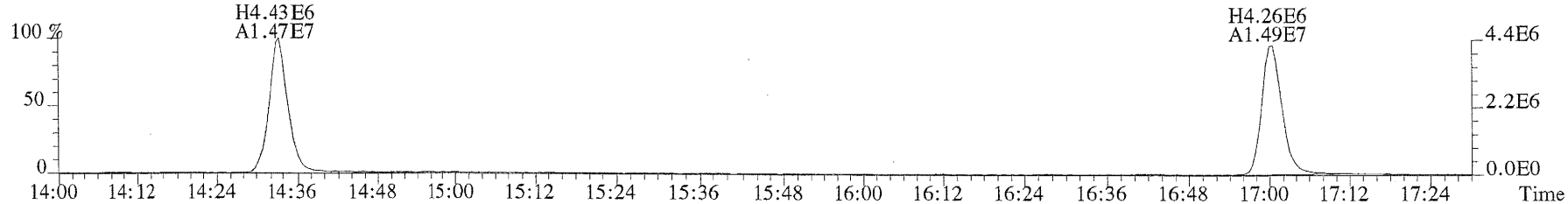
File:25JUL18Z #1-783 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



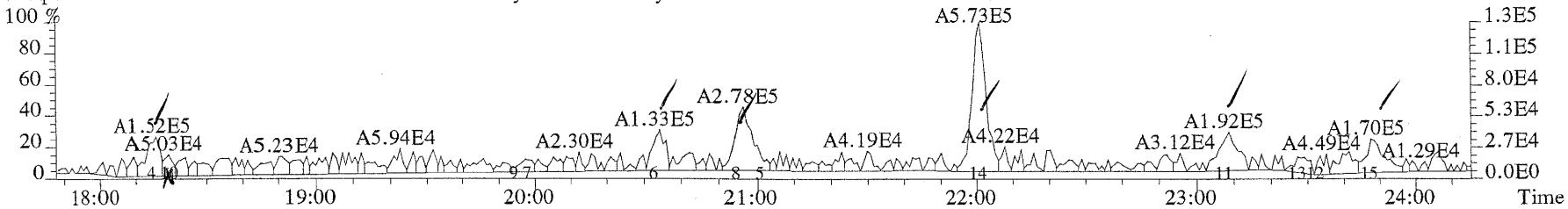
File:25JUL18Z #1-783 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



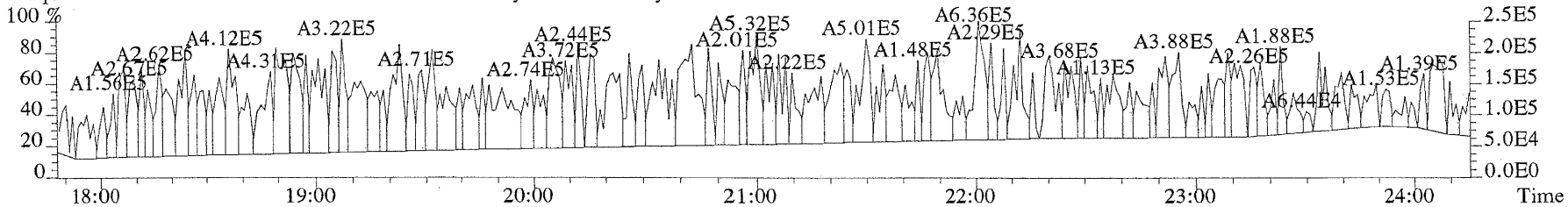
File:25JUL18Z #1-783 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



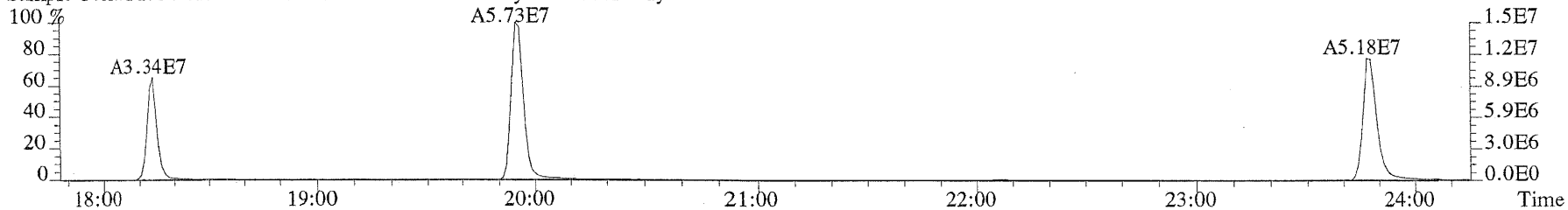
File:25JUL18Z #1-520 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:10 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



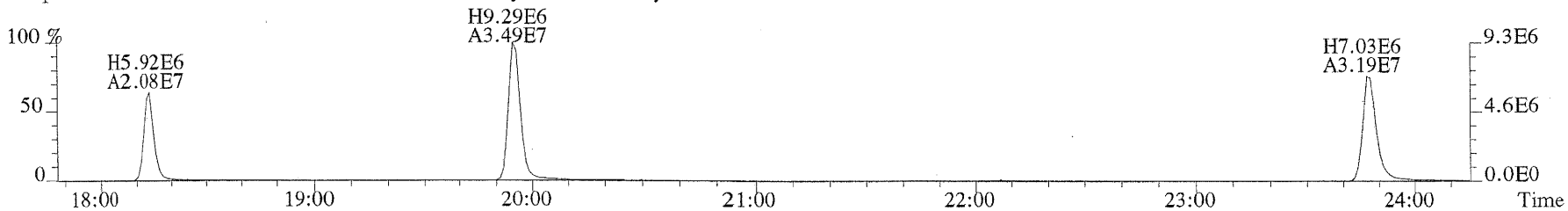
File:25JUL18Z #1-520 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:10 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



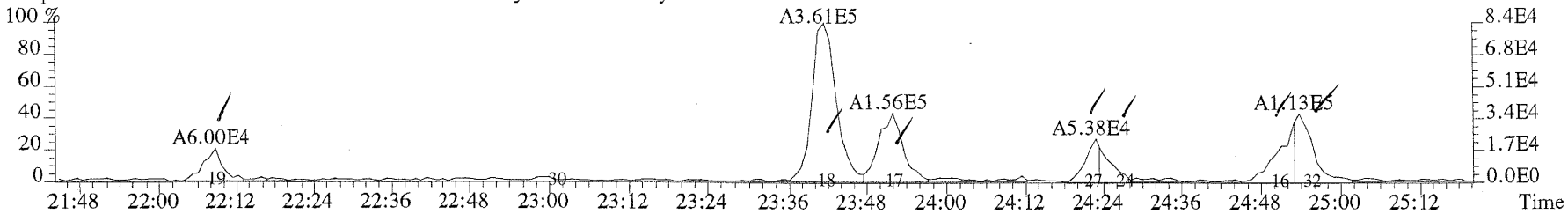
File:25JUL18Z #1-520 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:10 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



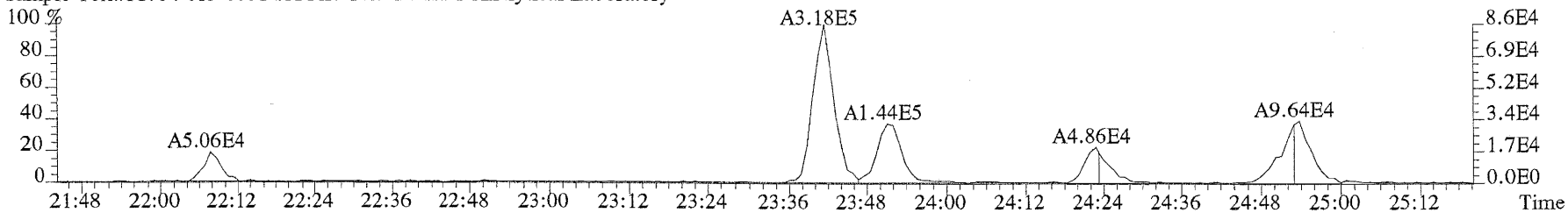
File:25JUL18Z #1-520 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:10 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



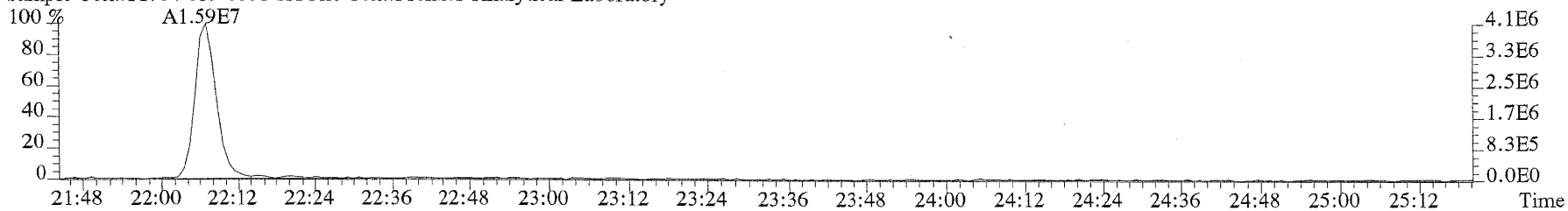
File:25JUL18Z #1-520 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



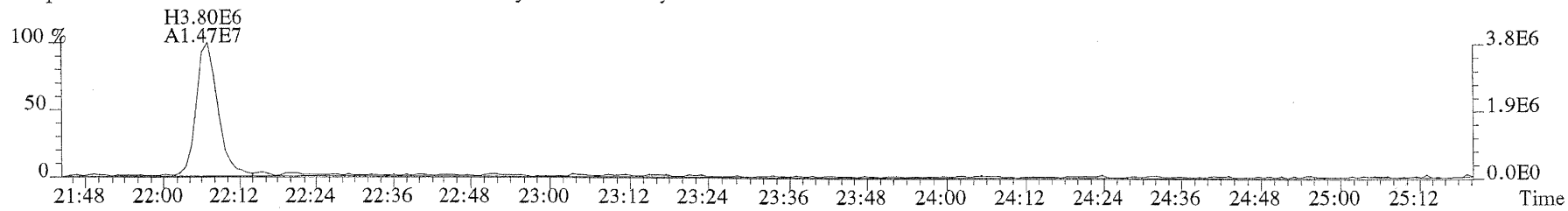
File:25JUL18Z #1-520 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



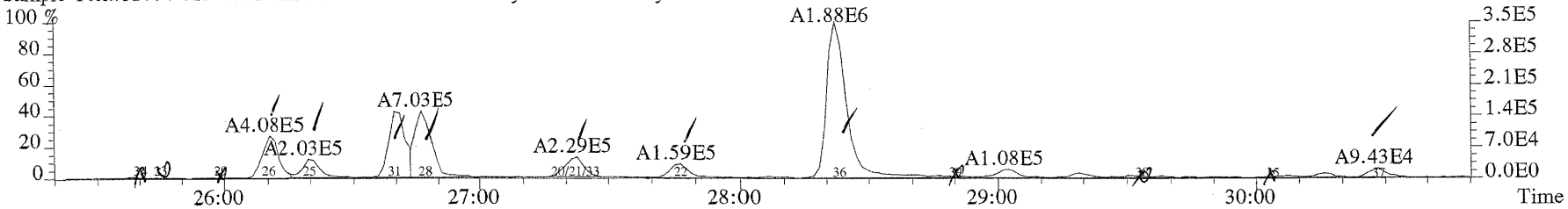
File:25JUL18Z #1-520 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



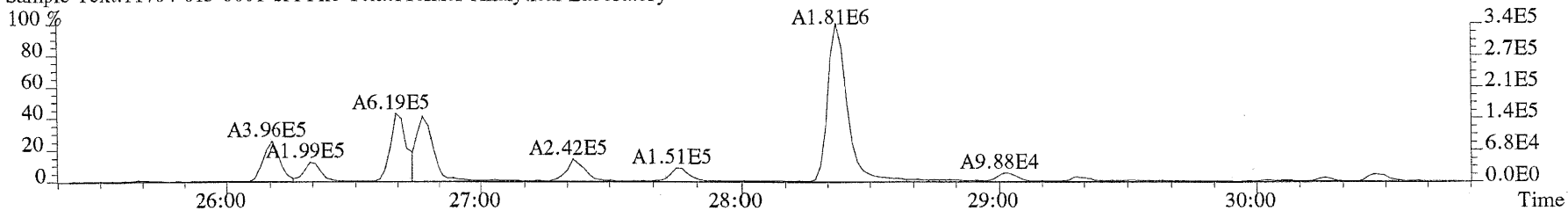
File:25JUL18Z #1-520 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



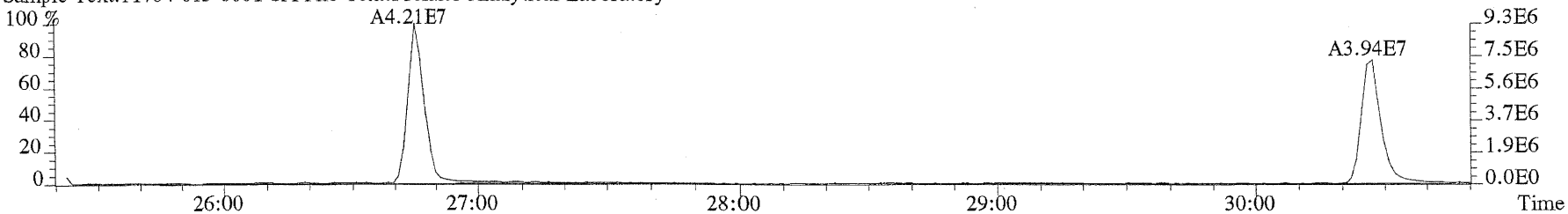
File:25JUL18Z #1-401 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



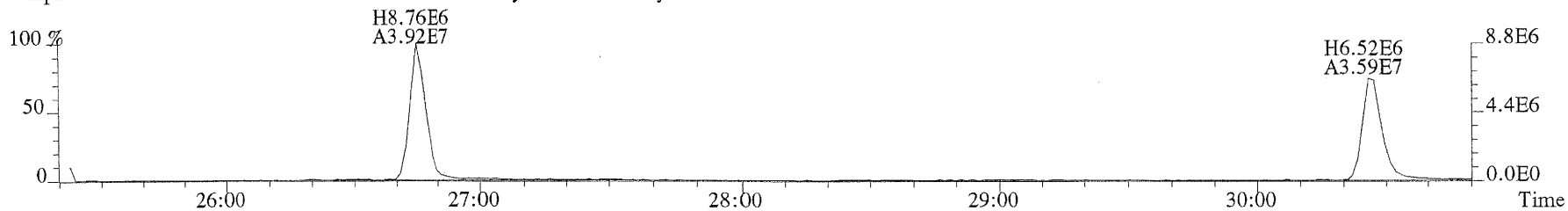
File:25JUL18Z #1-401 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



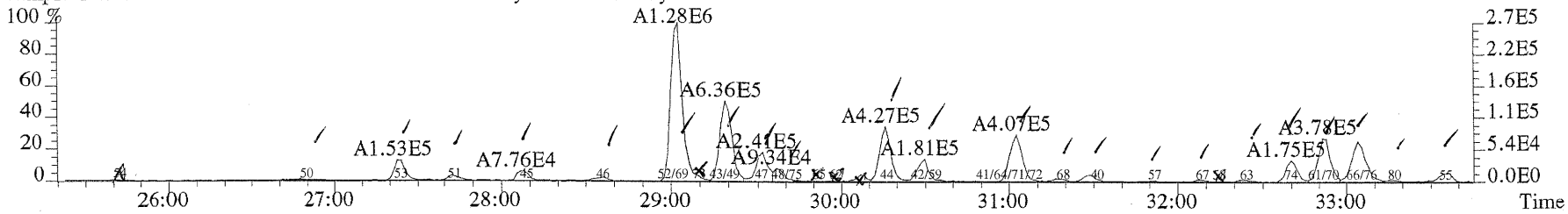
File:25JUL18Z #1-401 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



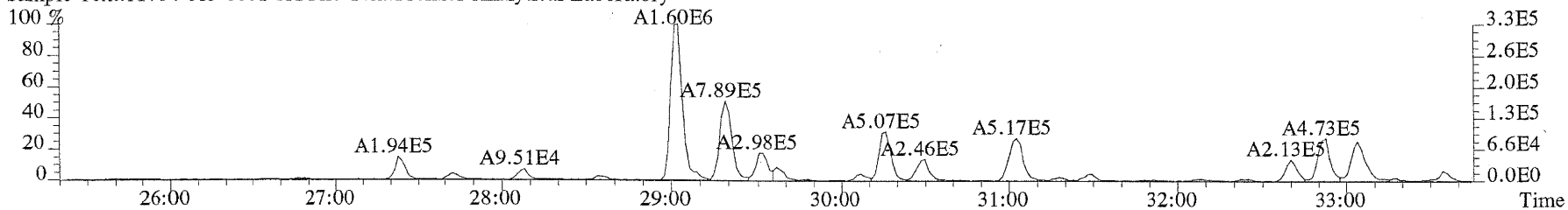
File:25JUL18Z #1-401 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



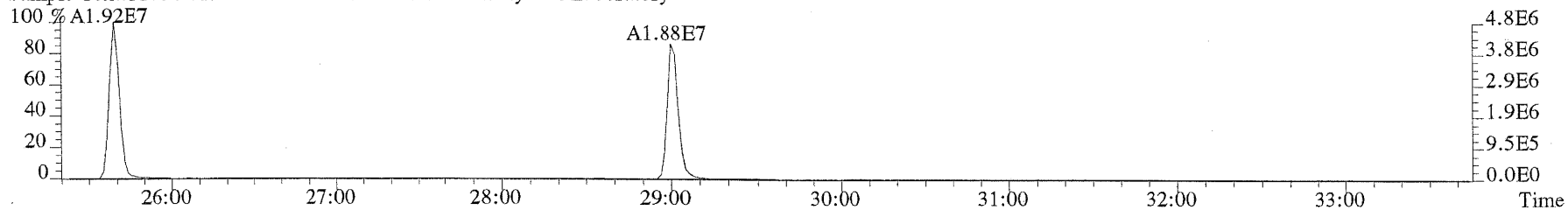
File:25JUL18Z #1-401 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



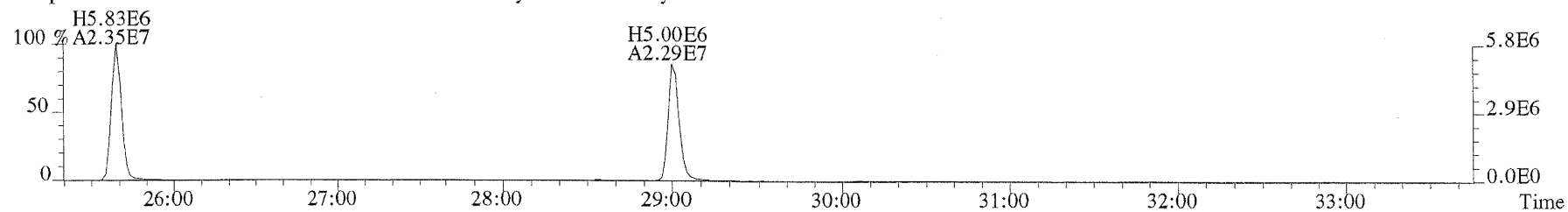
File:25JUL18Z #1-401 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



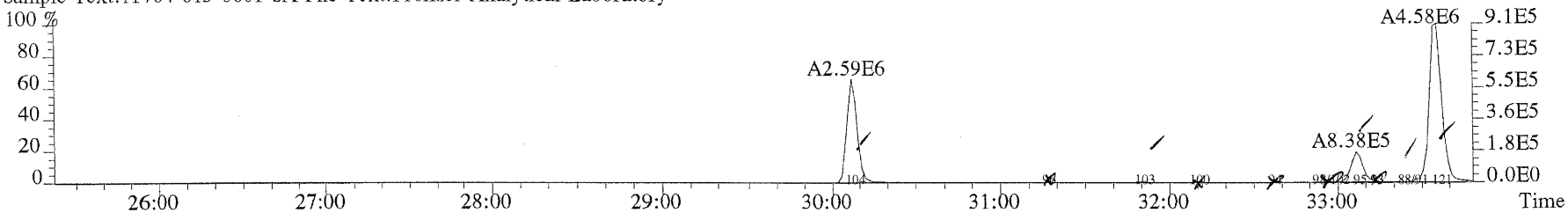
File:25JUL18Z #1-401 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



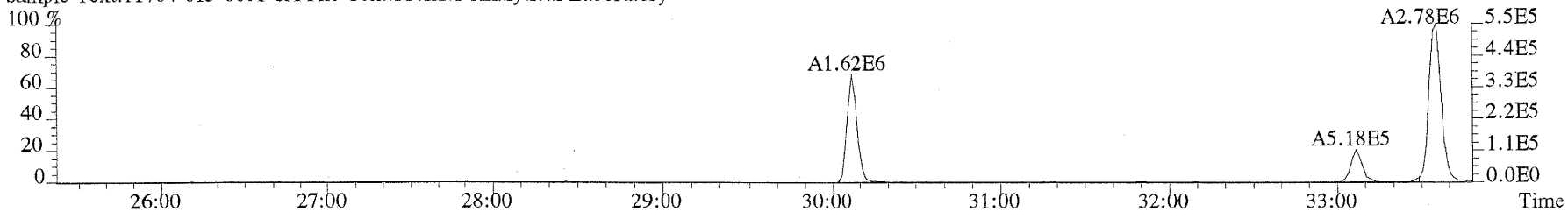
File:25JUL18Z #1-401 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



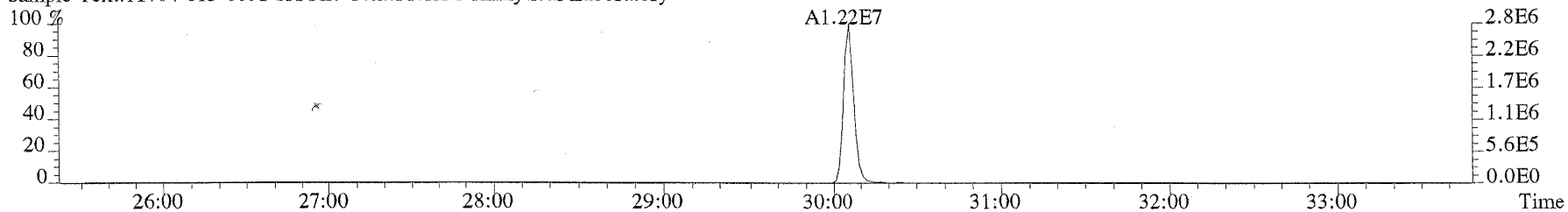
File:25JUL18Z #1-401 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



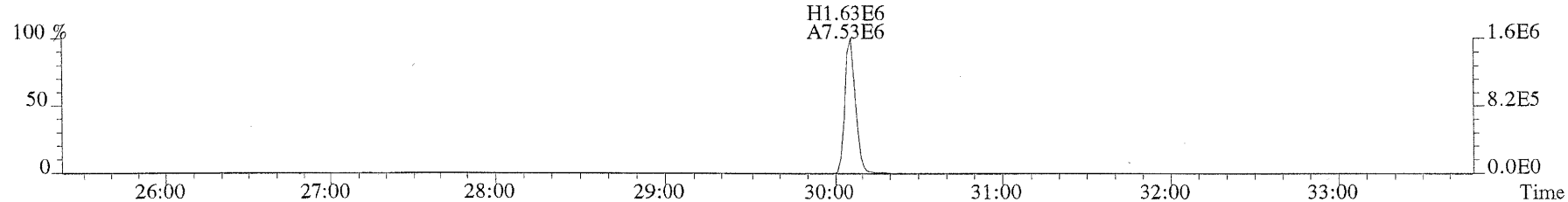
File:25JUL18Z #1-401 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



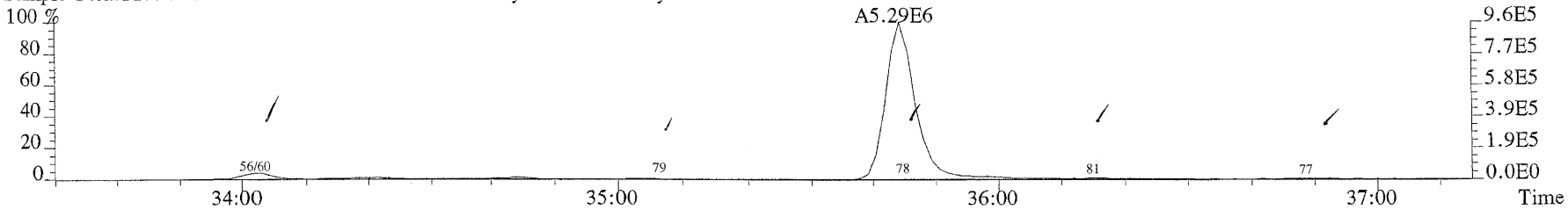
File:25JUL18Z #1-401 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



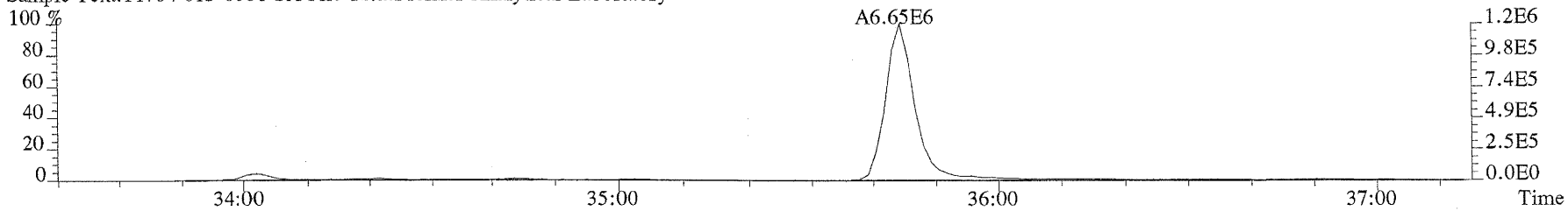
File:25JUL18Z #1-401 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



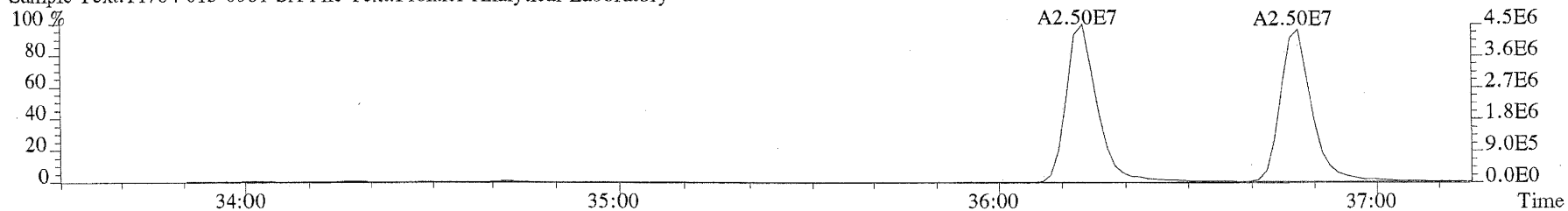
File:25JUL18Z #1-183 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



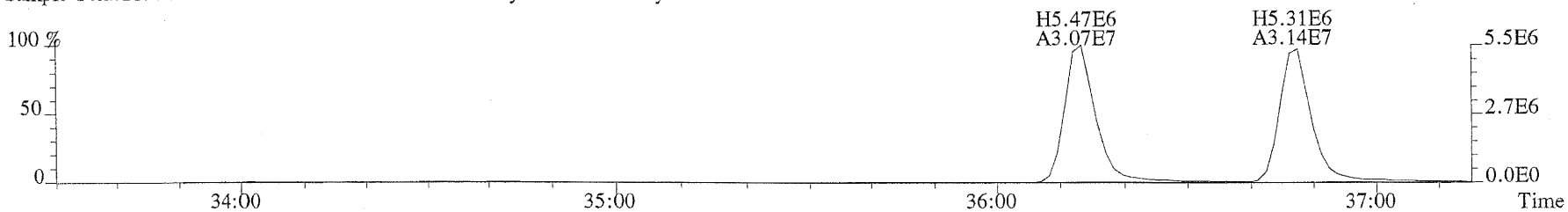
File:25JUL18Z #1-183 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



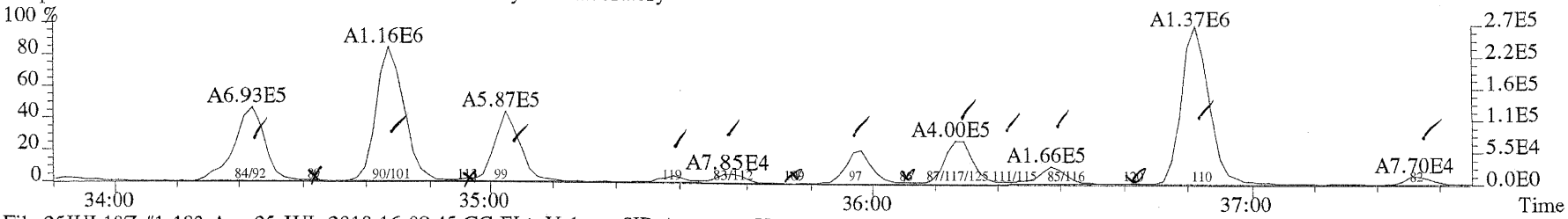
File:25JUL18Z #1-183 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



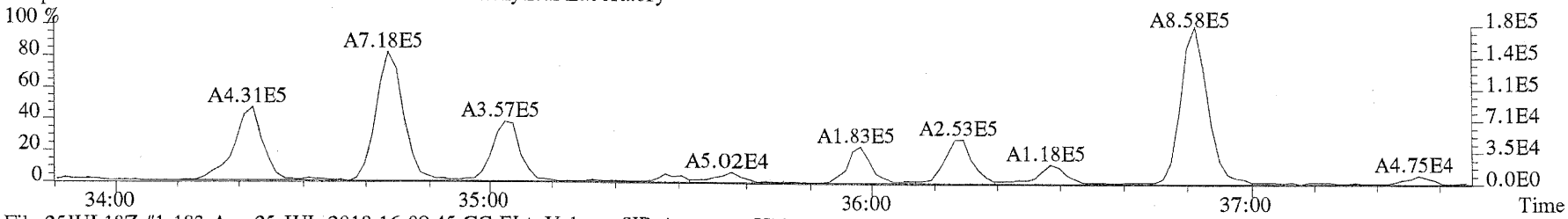
File:25JUL18Z #1-183 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



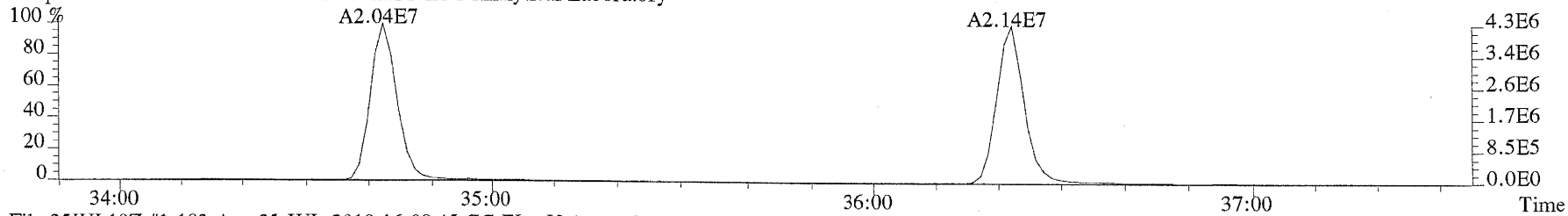
File:25JUL18Z #1-183 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



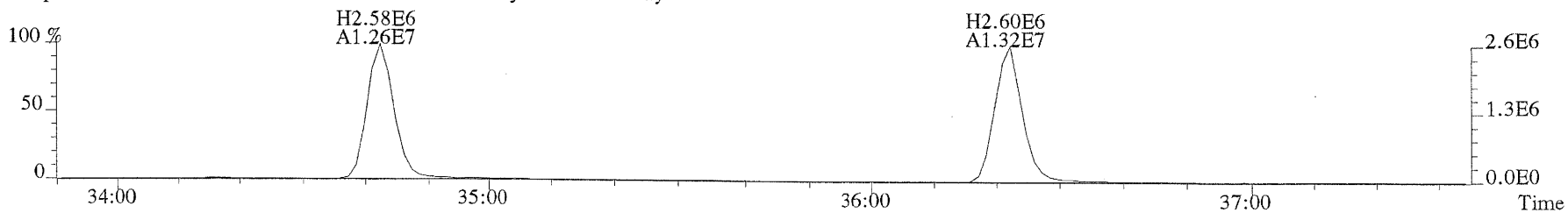
File:25JUL18Z #1-183 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



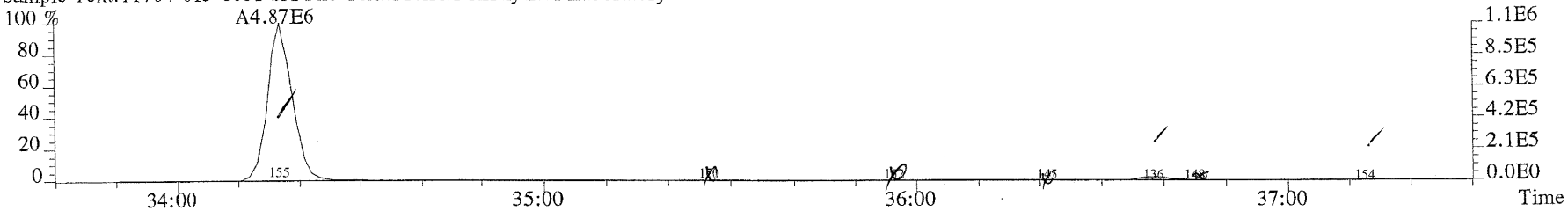
File:25JUL18Z #1-183 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



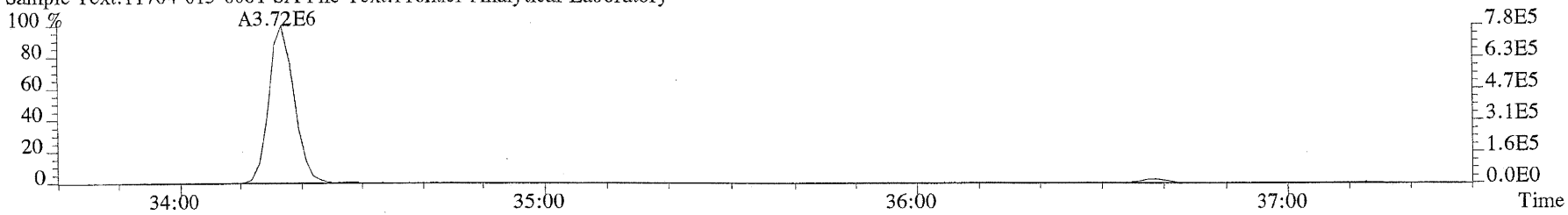
File:25JUL18Z #1-183 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



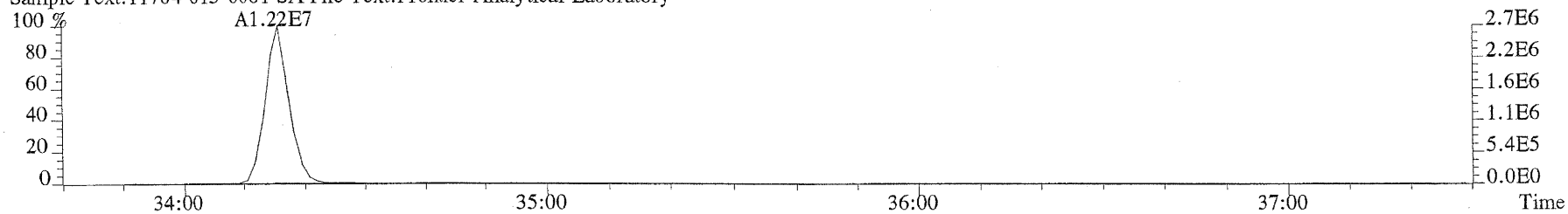
File:25JUL18Z #1-183 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



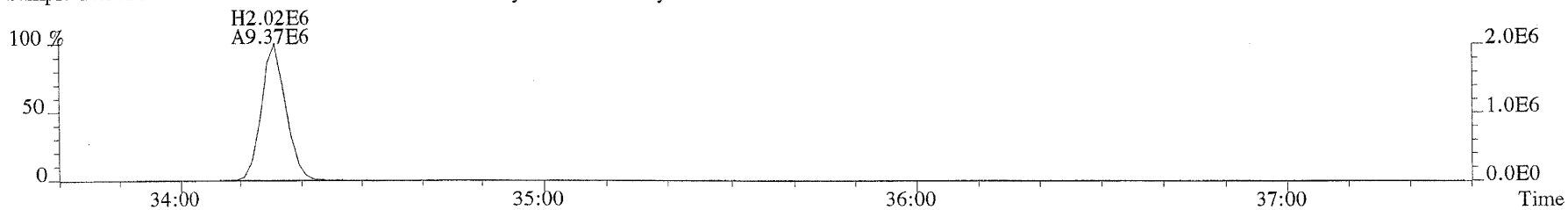
File:25JUL18Z #1-183 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



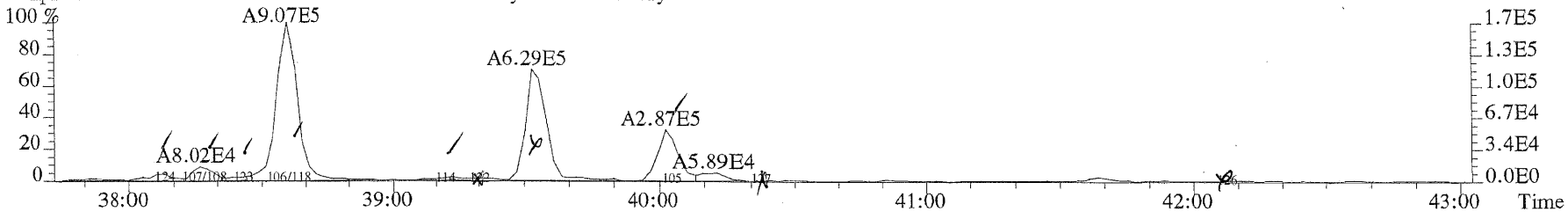
File:25JUL18Z #1-183 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



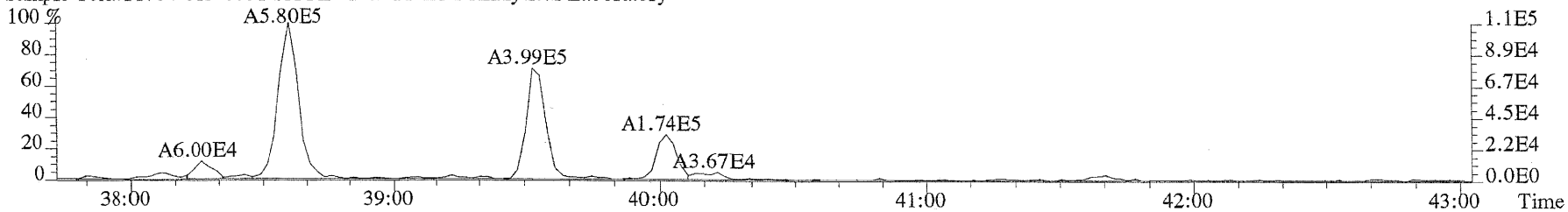
File:25JUL18Z #1-183 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



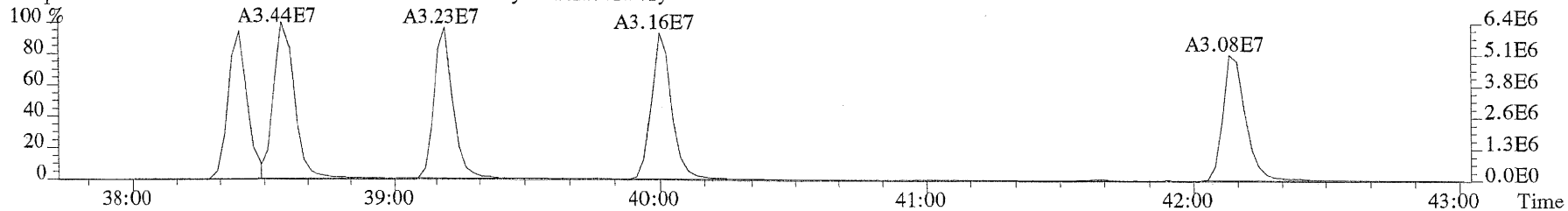
File:25JUL18Z #1-404 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



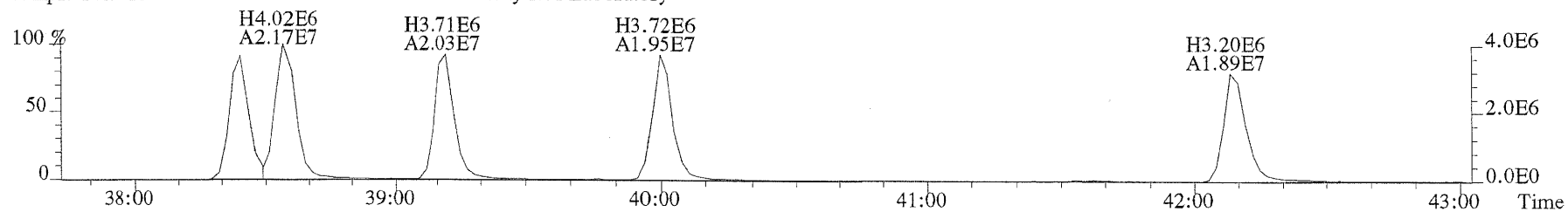
File:25JUL18Z #1-404 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



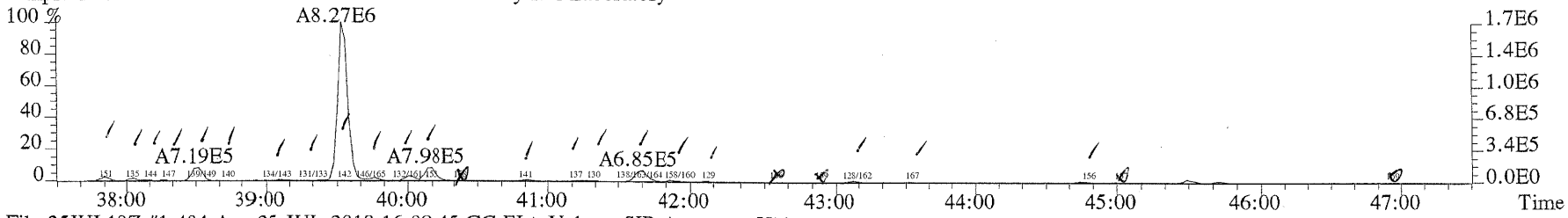
File:25JUL18Z #1-404 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



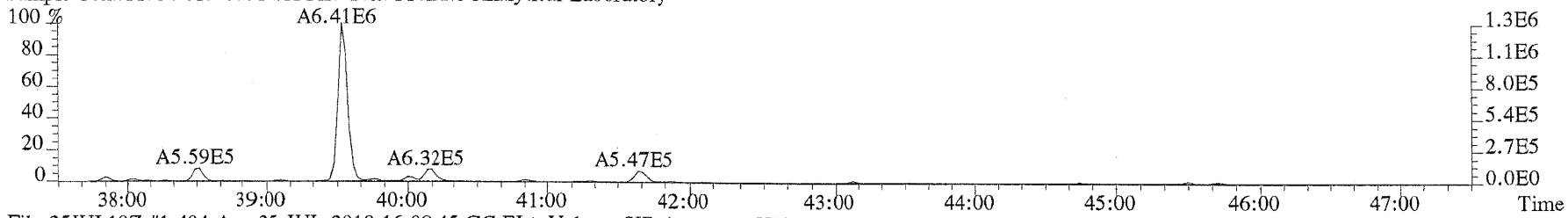
File:25JUL18Z #1-404 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



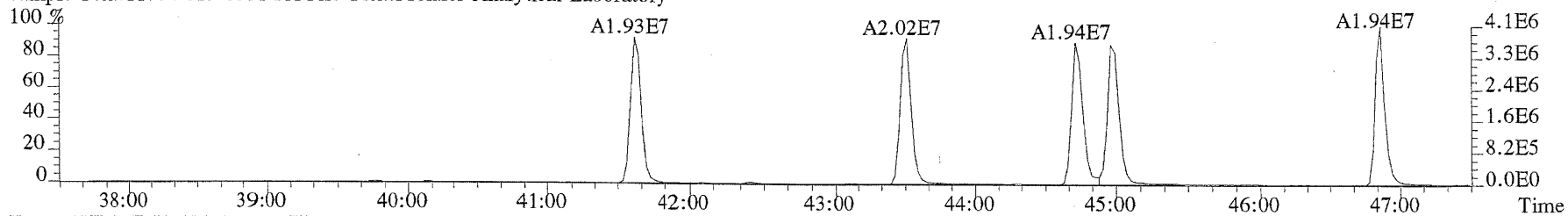
File:25JUL18Z #1-404 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



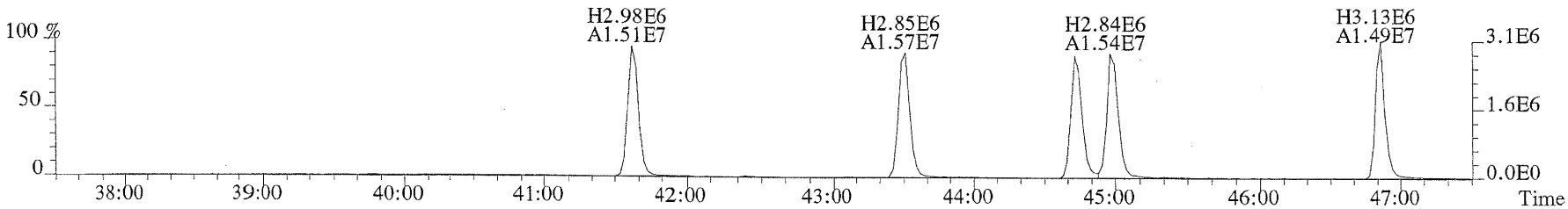
File:25JUL18Z #1-404 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



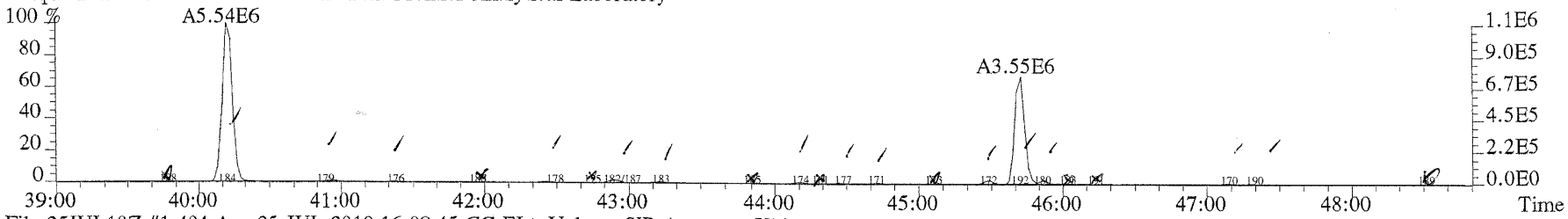
File:25JUL18Z #1-404 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



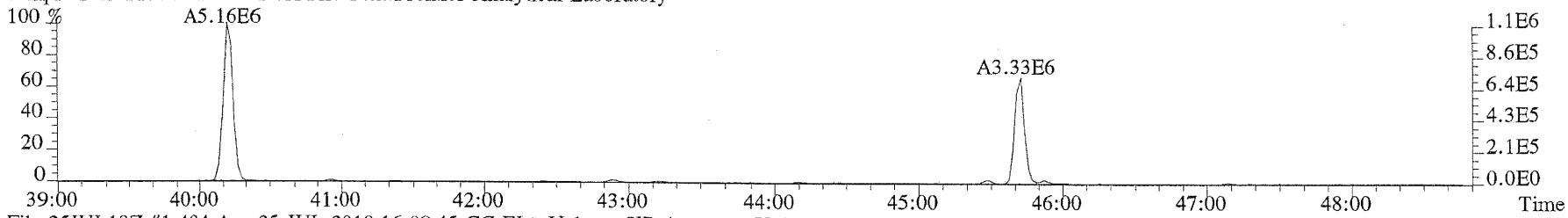
File:25JUL18Z #1-404 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



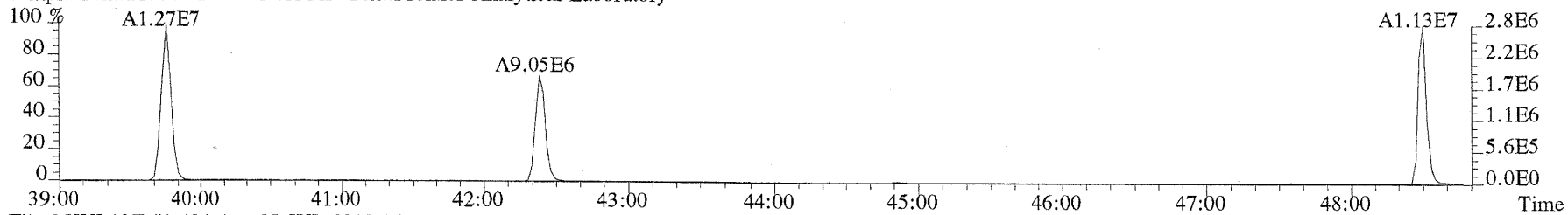
File:25JUL18Z #1-404 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



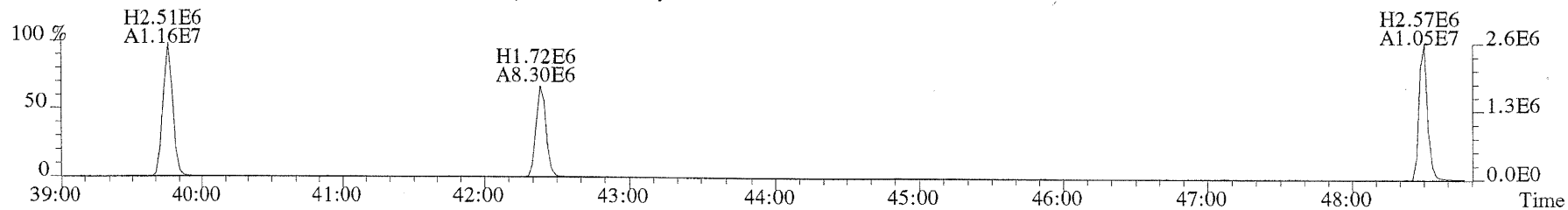
File:25JUL18Z #1-404 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



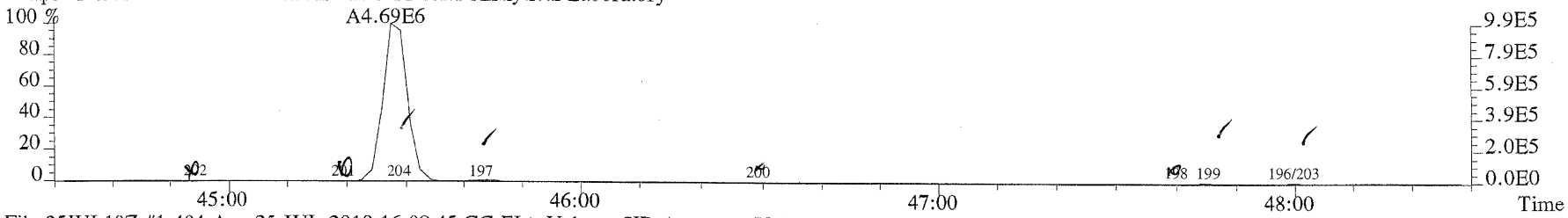
File:25JUL18Z #1-404 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



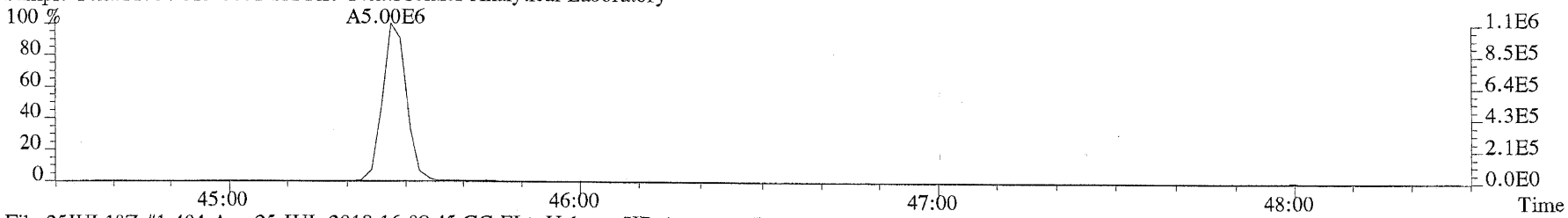
File:25JUL18Z #1-404 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



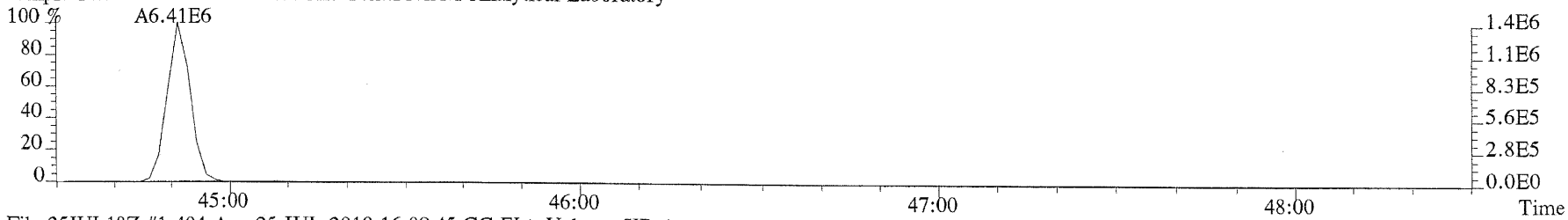
File:25JUL18Z #1-404 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



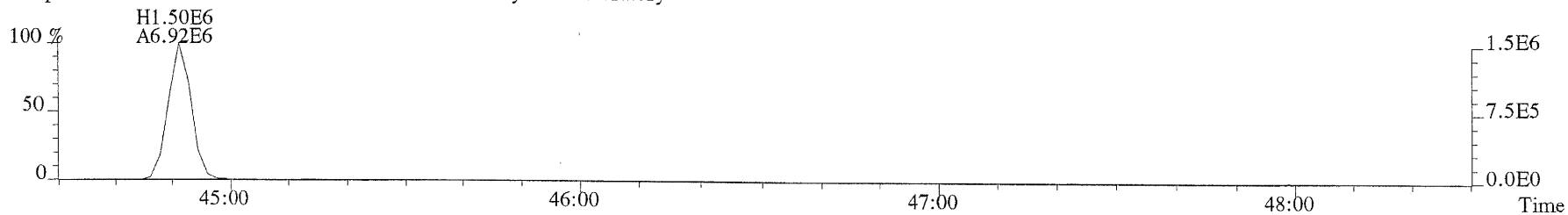
File:25JUL18Z #1-404 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



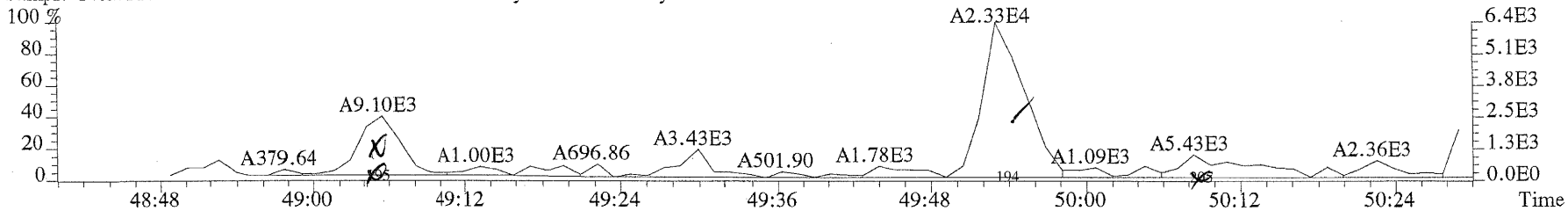
File:25JUL18Z #1-404 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



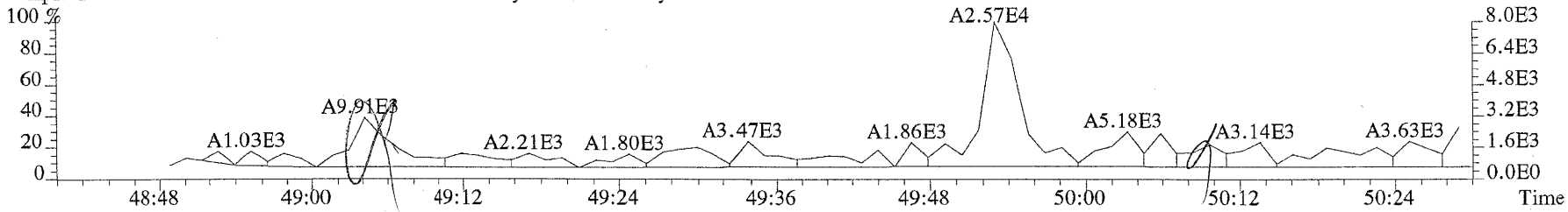
File:25JUL18Z #1-404 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



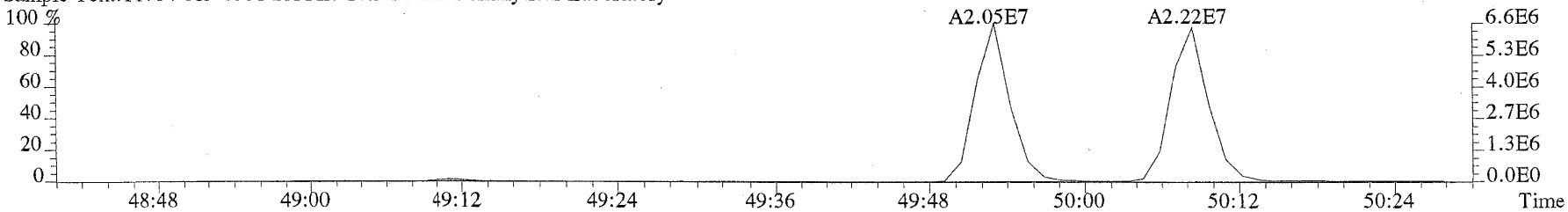
File:25JUL18Z #1-314 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



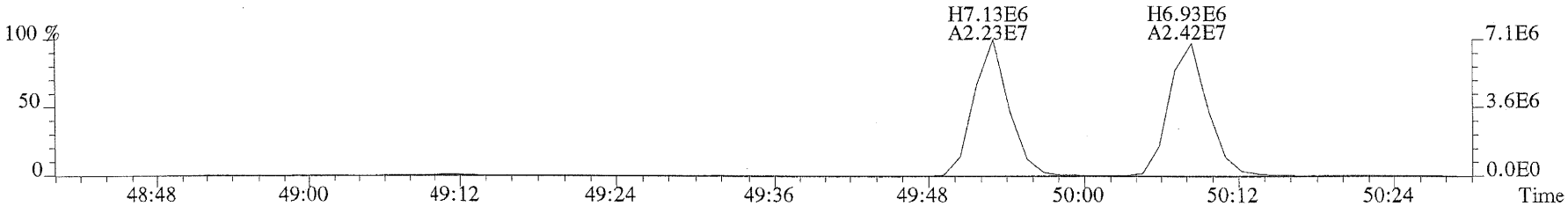
File:25JUL18Z #1-314 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



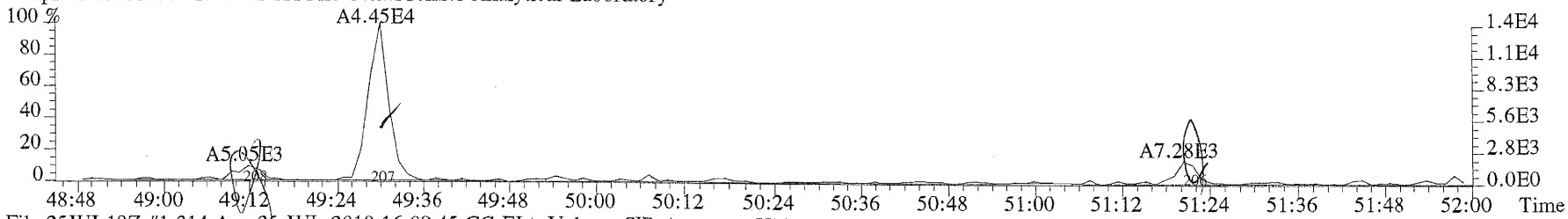
File:25JUL18Z #1-314 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



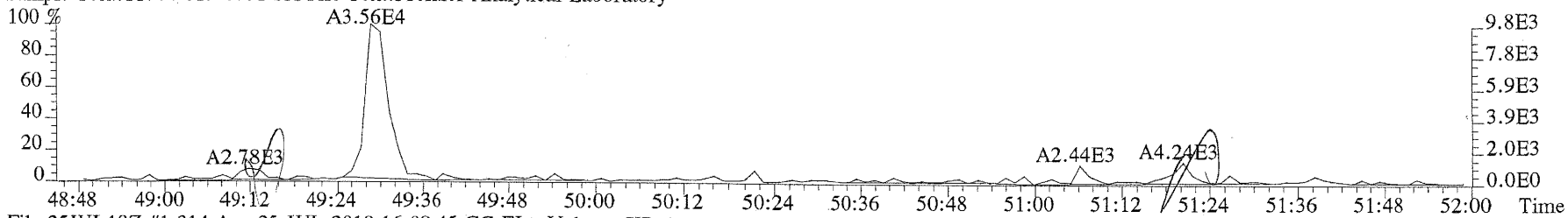
File:25JUL18Z #1-314 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



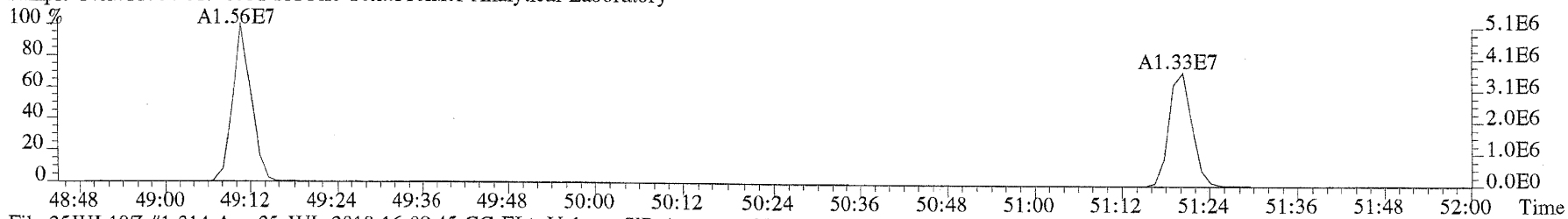
File:25JUL18Z #1-314 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



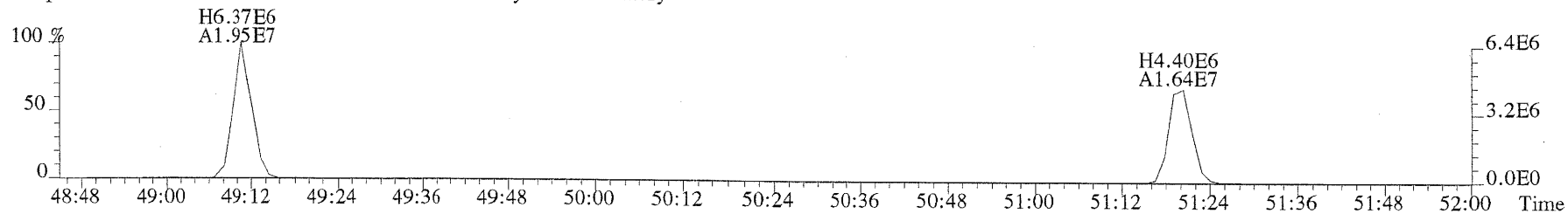
File:25JUL18Z #1-314 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 16:09:45 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:11704-015-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 16:09:45 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:11704-015-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 16:09:45 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
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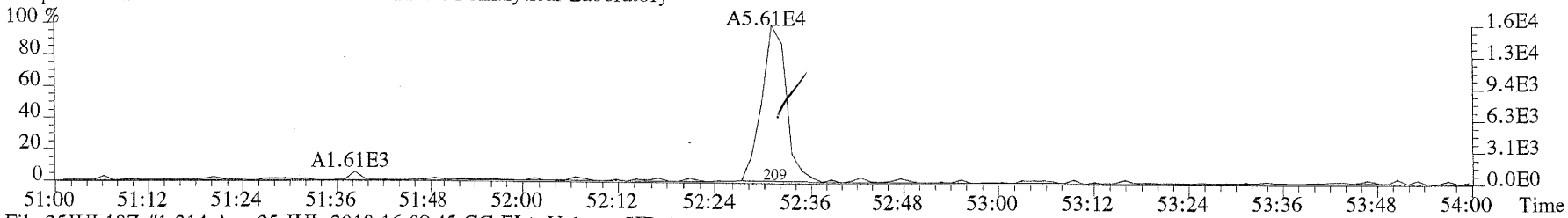
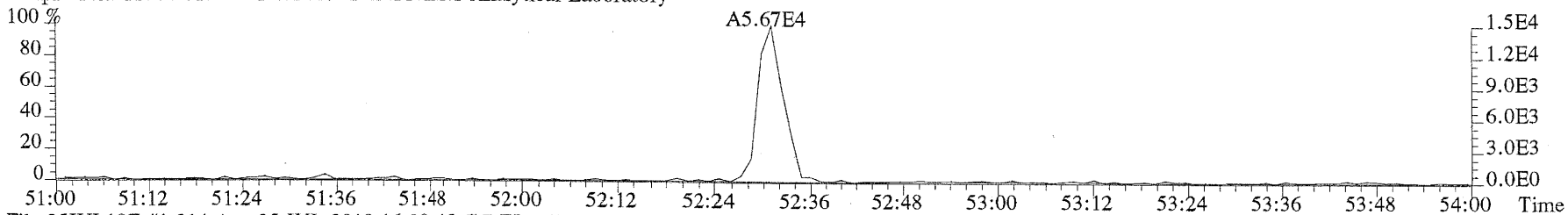
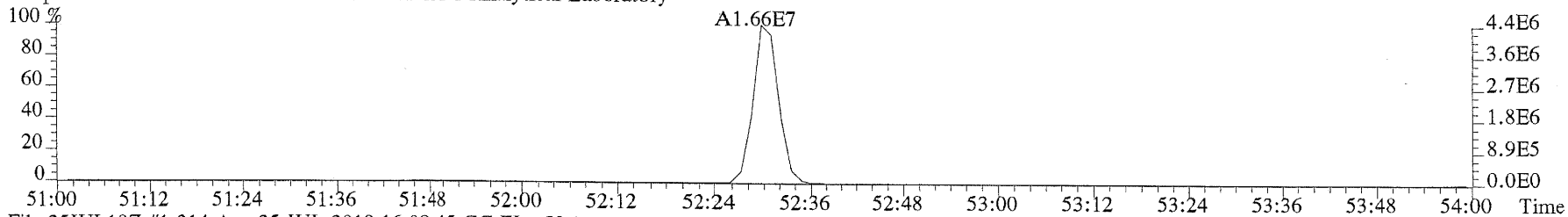


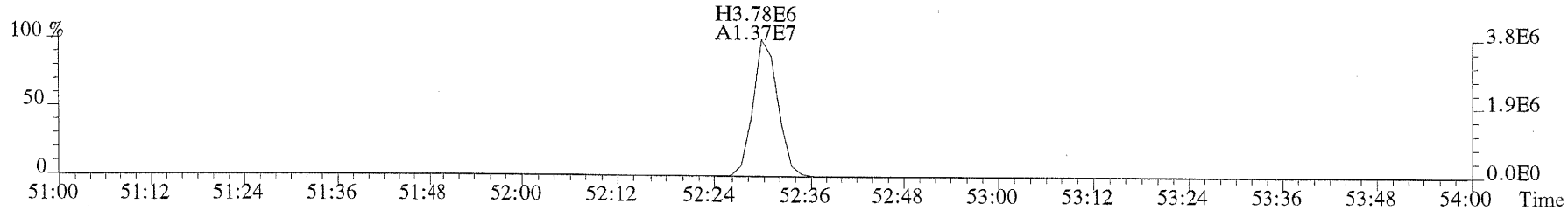
File:25JUL18Z #1-314 Acq:25-JUL-2018 16:09:45 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-015-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 16:09:45 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:11704-015-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 16:09:45 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:11704-015-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11704-018-0001-SA Filename: 25JUL18Z Sam:11 Acquired: 25-JUL-18 17:08:26 ICal: DAILY209FAL4-7-25-18
Client ID: LDW-Y1-SC-S010-TB ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	*	n	NotFnd	1.19	*		1830	1440	4.26			
13C-PCB-1	5.21e+07	3.24	y	14:33	0.80	9150					91.5	1.25e+07	3.76e+06
PCB-2	*	*	n	NotFnd	1.10	*		1830	1440	4.77			
PCB-3	*	*	n	NotFnd	1.17	*		1830	1440	4.65			
13C-PCB-3	5.33e+07	3.33	y	17:01	0.85	8880					88.8	1.16e+07	3.43e+06
PCB-4	*	*	n	NotFnd	1.26	*		770	1900	4.21			
PCB-10	*	*	n	NotFnd	1.15	*		770	1900	4.10			
13C-PCB-4	4.51e+07	1.64	y	18:14	0.63	10000					100	7.84e+06	4.78e+06
PCB-9	*	*	n	NotFnd	1.28	*		770	1900	3.67			
PCB-7	*	*	n	NotFnd	1.30	*		770	1900	3.61			
PCB-6	*	*	n	NotFnd	1.28	*		770	1900	3.69			
PCB-8	*	*	n	NotFnd	1.28	*		770	1900	3.67			
PCB-5	*	*	n	NotFnd	1.29	*		770	1900	3.64			
PCB-14	1.08e+07	1.47	y	22:01	1.23	1520		-	-	*			
PCB-11	2.66e+06	1.40	y	23:08	1.20	384		-	-	*			
PCB-13	*	*	n	NotFnd	1.24	*		770	1900	3.80			
PCB-12	*	*	n	NotFnd	1.25	*		770	1900	3.75			
PCB-15	*	*	n	NotFnd	1.12	*		770	1900	3.86			
13C-PCB-15	7.03e+07	1.65	y	23:48	0.95	10500					105	9.63e+06	5.81e+06
PCB-19	*	*	n	NotFnd	1.26	*		590	600	3.59			
PCB-30	*	*	n	NotFnd	1.70	*		590	600	2.67			
PCB-18	6.19e+04	1.18	y	23:41	1.21	19.1	J	-	-	*			
PCB-17	2.57e+04	1.08	y	23:52	1.29	7.39	J	-	-	*			
PCB-27	*	*	n	NotFnd	1.64	*		590	600	2.76			
PCB-24	*	*	n	NotFnd	1.68	*		590	600	2.70			
PCB-16	2.28e+04	1.16	y	24:51	1.42	5.98	J	-	-	*			
PCB-32	2.18e+04	1.18	y	24:55	1.44	5.65	J	-	-	*			
13C-PCB-19	2.68e+07	1.08	y	22:07	0.40	9510					95.1	3.48e+06	3.09e+06
13C-PCB-9	7.07e+07	1.66	y	19:55	-	61.6							
PCB-34	*	*	n	NotFnd	1.09	*		1190	1170	4.77			
PCB-23	*	*	n	NotFnd	1.17	*		1190	870	3.86			
PCB-29	*	*	n	NotFnd	1.18	*		1190	870	3.85			
PCB-26	*	*	n	NotFnd	1.12	*		1190	870	4.05			
PCB-25	*	*	n	NotFnd	1.38	*		1190	870	3.28			
PCB-31	1.10e+05	1.16	y	26:42	1.10	15.6	J	-	-	*			
PCB-28	1.28e+05	1.16	y	26:46	1.34	15.0	J	-	-	*			
PCB-20	8.91e+04	1.02	y	27:21	1.19	11.8	J	-	-	*		Co-elute PCB 21/33	
PCB-21	8.91e+04	1.02	y	27:21	1.19	11.8	J	-	-	*		Co-elute PCB 20/33	
PCB-33	8.91e+04	1.02	y	27:21	1.19	11.8	J	-	-	*		Co-elute PCB 20/21	
PCB-22	5.82e+04	1.15	y	27:45	1.17	7.82	J	-	-	*			
PCB-36	9.84e+06	1.06	y	28:22	1.09	1420		-	-	*			
PCB-39	*	*	n	NotFnd	1.13	*		1190	870	4.00			
PCB-38	*	*	n	NotFnd	1.17	*		1190	870	3.88			
PCB-35	*	*	n	NotFnd	1.04	*		1190	870	4.35			
PCB-37	*	*	n	NotFnd	1.23	*		1190	870	3.68			
13C-PCB-37	6.37e+07	1.07	y	30:27	1.68	11800					118	5.96e+06	5.42e+06

PCB-54	*	*	n	NotFnd	1.19	*		321	511	1.99			
PCB-50	2.47e+04	0.82	y	26:47	0.90	7.68	J	-	-	*			
PCB-53	*	*	n	NotFnd	0.91	*		321	511	2.61			
PCB-51	2.77e+04	0.83	y	27:43	0.93	8.35	J	-	-	*			
PCB-45	*	*	n	NotFnd	0.78	*		321	511	3.03			
PCB-46	*	*	n	NotFnd	0.77	*		321	511	3.10			
PCB-52	8.61e+04	0.77	y	29:01	1.08	22.2		-	-	*	Co-elute PCB 69		
PCB-69	8.61e+04	0.77	y	29:01	1.08	22.2		-	-	*	Co-elute PCB 52		
PCB-73	7.17e+04	0.84	y	29:09	1.19	16.8	J	-	-	*			
PCB-43	3.22e+04	0.86	y	29:20	0.88	10.2	J	-	-	*	Co-elute PCB 49		
PCB-49	3.22e+04	0.86	y	29:20	0.88	10.2	J	-	-	*	Co-elute PCB 43		
PCB-47	4.43e+04	0.71	y	29:30	1.15	10.7	J	-	-	*			
PCB-48	*	*	n	NotFnd	1.06	*		321	511	2.23	Co-elute PCB 75		
PCB-75	*	*	n	NotFnd	1.06	*		321	511	2.23	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.09	*		321	511	2.17			
PCB-62	*	*	n	NotFnd	1.15	*		321	511	2.07			
PCB-44	3.49e+04	0.77	y	30:16	0.82	11.9	J	-	-	*			
PCB-42	2.03e+04	0.85	y	30:28	1.06	5.33	J	-	-	*	Co-elute PCB 59		
PCB-59	2.03e+04	0.85	y	30:28	1.06	5.33	J	-	-	*	Co-elute PCB 42		
PCB-72	4.50e+04	0.87	y	31:01	1.15	10.9	J	-	-	*	Co-elute PCB 41/71/64		
PCB-41	4.50e+04	0.87	y	31:01	1.15	10.9	J	-	-	*	Co-elute PCB 72/71/64		
PCB-71	4.50e+04	0.87	y	31:01	1.15	10.9	J	-	-	*	Co-elute PCB 72/41/64		
PCB-64	4.50e+04	0.87	y	31:01	1.15	10.9	J	-	-	*	Co-elute PCB 72/41/71		
PCB-68	4.32e+04	0.79	y	31:18	1.25	9.62	J	-	-	*			
PCB-40	*	*	n	NotFnd	0.71	*		321	511	3.37			
PCB-57	*	*	n	NotFnd	1.13	*		321	511	2.10			
PCB-67	*	*	n	NotFnd	1.12	*		321	511	2.13			
PCB-58	*	*	n	NotFnd	1.18	*		321	511	2.01			
PCB-63	*	*	n	NotFnd	1.14	*		321	511	2.09			
PCB-74	2.00e+04	0.84	y	32:41	1.21	4.61	J	-	-	*			
PCB-61	6.00e+04	0.88	y	32:51	1.23	13.6	J	-	-	*	Co-elute PCB 70		
PCB-70	6.00e+04	0.88	y	32:51	1.23	13.6	J	-	-	*	Co-elute PCB 61		
PCB-76	3.97e+04	0.81	y	33:04	1.21	9.20	J	-	-	*	Co-elute PCB 66		
PCB-66	3.97e+04	0.81	y	33:04	1.21	9.20	J	-	-	*	Co-elute PCB 76		
PCB-80	2.87e+04	0.82	y	33:17	1.30	6.15	J	-	-	*			
PCB-55	2.06e+05	0.85	y	33:36	1.20	48.0		-	-	*			
13C-PCB-54	3.58e+07	0.82	y	25:39	1.11	10100						101	3.94e+06	4.81e+06
PCB-104	4.99e+06	1.58	y	30:07	1.35	2230		-	-	*			
PCB-96	*	*	n	NotFnd	1.22	*		376	308	3.66			
PCB-103	*	*	n	NotFnd	1.05	*		376	308	4.28			
PCB-100	*	*	n	NotFnd	1.07	*		376	308	4.18			
PCB-94	*	*	n	NotFnd	0.90	*		376	308	4.98			
PCB-98	*	*	n	NotFnd	0.54	*		376	308	8.28	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.54	*		376	308	8.28	Co-elute PCB 98		
PCB-95	6.57e+04	1.48	y	33:10	1.08	36.7		-	-	*			
PCB-93	*	*	n	NotFnd	0.98	*		376	308	4.55			
PCB-88	*	*	n	NotFnd	1.06	*		376	308	4.24	Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	1.06	*		376	308	4.24	Co-elute PCB 88		
PCB-121	8.23e+06	1.59	y	33:36	1.10	4530		-	-	*			
13C-PCB-104	1.66e+07	1.65	y	30:06	0.50	10300						103	2.39e+06	1.43e+06
13C-PCB-28	6.57e+07	1.07	y	26:45	1.97	10400						104	7.75e+06	7.33e+06
13C-PCB-52	3.20e+07	0.81	y	29:00	-	57.0								

PCB-56	*	*	n	NotFnd	1.08	*		896	1550	6.57			Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.08	*		896	1550	6.57			Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.14	*		896	1550	6.24			
PCB-78	1.86e+07	0.79	y	35:44	1.09	3630		-	-	*			
PCB-81	*	*	n	NotFnd	1.14	*		896	1550	6.14			
13C-PCB-81	4.65e+07	0.81	y	36:13	1.57	11700					117	3.92e+06	4.78e+06
PCB-77	*	*	n	NotFnd	1.11	*		896	1550	6.47			
13C-PCB-77	4.71e+07	0.81	y	36:47	1.61	11600					116	3.86e+06	4.66e+06
PCB-155	9.12e+06	1.30	y	34:17	1.24	4110		-	-	*			
PCB-150	*	*	n	NotFnd	1.13	*		312	268	3.26			
PCB-152	*	*	n	NotFnd	1.06	*		312	268	3.47			
PCB-145	*	*	n	NotFnd	1.10	*		312	268	3.33			
PCB-136	*	*	n	NotFnd	1.06	*		312	268	3.47			
PCB-148	*	*	n	NotFnd	0.84	*		312	268	4.37			
PCB-154	2.54e+04	1.34	y	37:14	0.97	14.6	J	-	-	*			
13C-PCB-155	1.79e+07	1.29	y	34:16	0.67	10500					105	2.26e+06	1.70e+06
13C-PCB-111	2.79e+07	1.60	y	36:22	1.16	9540					95.4	3.47e+06	2.22e+06
13C-PCB-101	2.53e+07	1.64	y	34:42	-	53.5							
PCB-84	1.87e+05	1.46	y	34:17	0.61	71.8		-	-	*			Co-elute PCB 92
PCB-92	1.87e+05	1.46	y	34:17	0.61	71.8		-	-	*			Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.58	*		654	566	6.19			
PCB-90	4.64e+04	1.51	y	34:45	0.68	16.0	J	-	-	*			Co-elute PCB 101
PCB-101	4.64e+04	1.51	y	34:45	0.68	16.0	J	-	-	*			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.77	*		654	566	4.68			
PCB-99	*	*	n	NotFnd	0.75	*		654	566	4.81			
PCB-119	*	*	n	NotFnd	0.81	*		654	566	4.42			
PCB-83	*	*	n	NotFnd	0.69	*		654	566	5.23			Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.69	*		654	566	5.23			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.82	*		654	566	4.38			
PCB-97	*	*	n	NotFnd	0.73	*		654	566	4.94			
PCB-86	*	*	n	NotFnd	0.70	*		654	566	5.11			
PCB-125	*	*	n	NotFnd	0.72	*		654	566	4.97			Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.72	*		654	566	4.97			Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.72	*		654	566	4.97			Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	0.99	*		654	566	3.62			Co-elute PCB 115
PCB-115	*	*	n	NotFnd	0.99	*		654	566	3.62			Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.71	*		654	566	5.08			Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.71	*		654	566	5.08			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.81	*		654	566	4.42			
PCB-110	4.75e+04	1.57	y	36:51	0.96	11.6	J	-	-	*			
PCB-82	*	*	n	NotFnd	0.50	*		654	566	7.21			
PCB-124	*	*	n	NotFnd	0.91	*		700	1180	6.10			
PCB-108	*	*	n	NotFnd	1.07	*		700	1180	5.15			Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.07	*		700	1180	5.15			Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.23	*		700	1180	4.55			
13C-PCB-123	4.00e+07	1.58	y	38:24	1.40	11000					110	5.12e+06	3.22e+06
PCB-118	*	*	n	NotFnd	1.03	*		700	1180	5.17			Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.03	*		700	1180	5.17			Co-elute PCB 118
13C-PCB-118	4.53e+07	1.62	y	38:34	1.53	11400					114	5.40e+06	3.37e+06
PCB-114	*	*	n	NotFnd	1.07	*		700	1180	5.13			
13C-PCB-114	4.32e+07	1.63	y	39:12	1.46	11400					114	5.33e+06	3.24e+06
PCB-122	*	*	n	NotFnd	1.10	*		700	1180	5.03			
PCB-105	*	*	n	NotFnd	1.08	*		700	1180	5.28			
13C-PCB-105	4.24e+07	1.58	y	40:00	1.44	11300					113	5.06e+06	3.18e+06

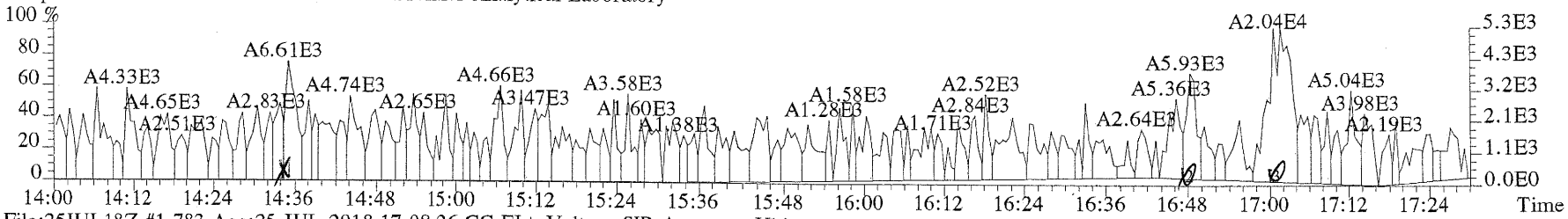
PCB-127	*	*	n	NotFnd	0.99	*	700	1180	5.59				
PCB-126	*	*	n	NotFnd	1.12	*	700	1180	5.93				
13C-PCB-126	4.05e+07	1.61	y	42:08	1.35	11600				116	4.37e+06	2.72e+06	
PCB-151	*	*	n	NotFnd	0.85	*	616	496	5.81				
PCB-135	*	*	n	NotFnd	0.82	*	616	496	6.00				
PCB-144	*	*	n	NotFnd	0.93	*	616	496	5.30				
PCB-147	*	*	n	NotFnd	0.92	*	616	496	5.35				
PCB-139	*	*	n	NotFnd	0.98	*	616	496	5.05		Co-elute PCB 149		
PCB-149	*	*	n	NotFnd	0.98	*	616	496	5.05		Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	0.95	*	616	496	5.17				
PCB-143	*	*	n	NotFnd	0.90	*	616	496	5.51		Co-elute PCB 134		
PCB-134	*	*	n	NotFnd	0.90	*	616	496	5.51		Co-elute PCB 143		
PCB-131	*	*	n	NotFnd	0.90	*	616	496	5.46		Co-elute PCB 133		
PCB-133	*	*	n	NotFnd	0.90	*	616	496	5.46		Co-elute PCB 131		
PCB-142	1.63e+07	1.27	y	39:32	0.77	7110	-	-	*				
PCB-165	*	*	n	NotFnd	1.05	*	616	496	4.70		Co-elute PCB 146		
PCB-146	*	*	n	NotFnd	1.05	*	616	496	4.70		Co-elute PCB 165		
PCB-161	*	*	n	NotFnd	1.00	*	616	496	4.96		Co-elute PCB 132		
PCB-132	*	*	n	NotFnd	1.00	*	616	496	4.96		Co-elute PCB 161		
PCB-153	2.35e+05	1.27	y	40:13	1.01	78.5	-	-	*				
PCB-168	*	*	n	NotFnd	1.15	*	616	496	4.27				
PCB-141	*	*	n	NotFnd	0.89	*	616	496	5.55				
PCB-137	*	*	n	NotFnd	0.90	*	616	496	5.47				
PCB-130	*	*	n	NotFnd	0.76	*	616	496	6.50				
PCB-138	*	*	n	NotFnd	1.17	*	616	496	4.21		Co-elute PCB 163/164		
PCB-163	*	*	n	NotFnd	1.17	*	616	496	4.21		Co-elute PCB 138/164		
PCB-164	*	*	n	NotFnd	1.17	*	616	496	4.21		Co-elute PCB 138/163		
PCB-158	*	*	n	NotFnd	1.18	*	616	496	4.18		Co-elute PCB 160		
PCB-160	*	*	n	NotFnd	1.18	*	616	496	4.18		Co-elute PCB 158		
PCB-129	*	*	n	NotFnd	0.77	*	616	496	6.43				
PCB-166	*	*	n	NotFnd	1.08	*	616	496	4.57				
PCB-159	*	*	n	NotFnd	1.19	*	616	496	4.14				
PCB-128	*	*	n	NotFnd	0.98	*	616	496	5.04		Co-elute PCB 162		
PCB-162	*	*	n	NotFnd	0.98	*	616	496	5.04		Co-elute PCB 128		
PCB-167	*	*	n	NotFnd	1.05	*	616	496	4.89				
13C-PCB-167	2.97e+07	1.30	y	43:31	1.12	10200				102	3.05e+06	2.34e+06	
PCB-156	*	*	n	NotFnd	1.11	*	616	496	4.46				
13C-PCB-156	2.86e+07	1.27	y	44:43	1.07	10300				103	3.18e+06	2.46e+06	
PCB-157	*	*	n	NotFnd	1.14	*	616	496	4.37				
13C-PCB-157	3.07e+07	1.34	y	44:58	1.12	10600				106	3.10e+06	2.44e+06	
PCB-169	*	*	n	NotFnd	1.07	*	616	496	4.36				
13C-PCB-169	2.94e+07	1.29	y	46:51	1.08	10500				105	3.39e+06	2.58e+06	

FAL ID: 11704-018-0001-SA Filename: 25JUL18Z Sam:11 Acquired: 25-JUL-18 17:08:26 ICal: DAILY209FAL4-7-25-18
Client ID: LDW-Y1-SC-S010-TB ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

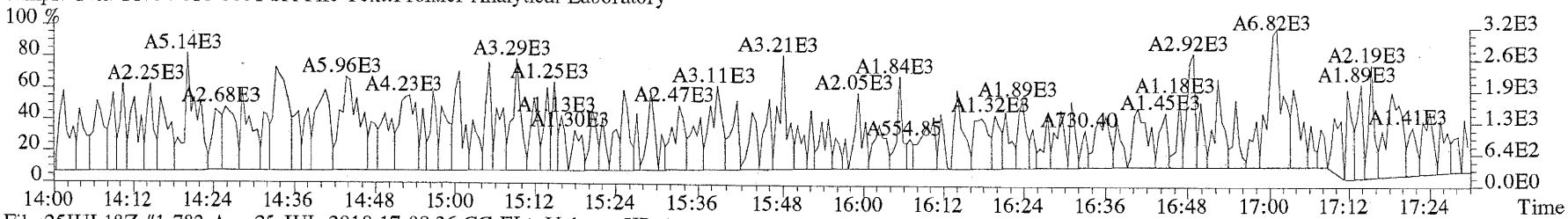
PCB-188	*	*	n	NotFnd	1.21	*	528	208	3.33			
13C-PCB-188	2.03e+07	1.10	y	39:45	0.80	9790				97.9	2.40e+06	2.18e+06
PCB-184	1.18e+07	1.08	y	40:11	1.25	4880	-	-	*			
PCB-179	*	*	n	NotFnd	1.15	*	528	208	3.60			
PCB-176	*	*	n	NotFnd	1.14	*	528	208	3.65			
PCB-186	*	*	n	NotFnd	1.19	*	528	208	3.49			
PCB-178	*	*	n	NotFnd	0.83	*	528	208	5.03			
PCB-175	*	*	n	NotFnd	0.88	*	528	208	4.70			
PCB-187	*	*	n	NotFnd	0.99	*	528	208	4.19		Co-elute PCB 182	
PCB-182	*	*	n	NotFnd	0.99	*	528	208	4.19		Co-elute PCB 187	
PCB-183	*	*	n	NotFnd	0.93	*	528	208	4.45			
PCB-185	*	*	n	NotFnd	0.88	*	528	208	4.70			
PCB-174	*	*	n	NotFnd	0.89	*	528	208	4.66			
PCB-181	*	*	n	NotFnd	0.90	*	528	208	4.59			
PCB-177	*	*	n	NotFnd	0.79	*	528	208	5.24			
PCB-171	*	*	n	NotFnd	0.85	*	528	208	4.87			
PCB-173	*	*	n	NotFnd	0.80	*	528	208	5.18			
PCB-172	2.28e+05	1.08	y	45:29	0.80	148	-	-	*			
PCB-192	7.80e+06	1.09	y	45:42	1.11	3630	-	-	*			
PCB-180	*	*	n	NotFnd	1.09	*	528	208	3.80			
PCB-193	*	*	n	NotFnd	1.16	*	528	208	3.58			
PCB-191	*	*	n	NotFnd	1.08	*	528	208	3.84			
PCB-170	*	*	n	NotFnd	0.77	*	528	208	5.36			
PCB-190	*	*	n	NotFnd	1.09	*	528	208	3.81			
PCB-189	*	*	n	NotFnd	1.17	*	528	208	3.69			
13C-PCB-189	1.83e+07	1.07	y	48:30	0.73	9690				96.9	2.21e+06	2.07e+06
PCB-202	*	*	n	NotFnd	1.03	*	152	228	3.47			
PCB-201	*	*	n	NotFnd	1.02	*	152	228	3.50			
PCB-204	1.14e+07	0.93	y	45:27	1.00	10000	-	-	*			
PCB-197	6.80e+04	0.87	y	45:44	1.08	55.2	-	-	*			
PCB-200	*	*	n	NotFnd	1.01	*	152	228	3.57			
PCB-198	*	*	n	NotFnd	0.74	*	152	228	4.82			
PCB-199	*	*	n	NotFnd	0.84	*	152	228	4.29			
PCB-203	*	*	n	NotFnd	0.87	*	152	228	4.14		Co-elute PCB 196	
PCB-196	*	*	n	NotFnd	0.87	*	152	228	4.14		Co-elute PCB 203	
13C-PCB-202	1.14e+07	0.96	y	44:51	0.44	10000				100	1.30e+06	1.35e+06
13C-PCB-178	1.41e+07	1.12	y	42:23	0.60	9010				90.1	1.62e+06	1.43e+06
13C-PCB-138	2.60e+07	1.31	y	41:37	-	53.6						
PCB-195	*	*	n	NotFnd	0.71	*	456	1480	5.77			
PCB-194	*	*	n	NotFnd	0.79	*	456	1480	5.15			
PCB-205	*	*	n	NotFnd	1.07	*	456	1480	3.81			
13C-PCB-205	3.96e+07	0.91	y	50:09	1.23	9680				96.8	5.66e+06	6.19e+06
PCB-208	*	*	n	NotFnd	1.01	*	404	400	2.13			
13C-PCB-208	2.99e+07	0.80	y	49:11	0.97	9250				92.5	4.14e+06	5.21e+06
PCB-207	1.12e+05	1.34	y	49:30	0.98	42.2	-	-	*			
PCB-206	*	*	n	NotFnd	1.00	*	404	400	3.13			
13C-PCB-206	2.44e+07	0.81	y	51:19	0.88	8370				83.7	2.82e+06	3.61e+06
PCB-209	1.21e+05	1.31	y	52:31	1.12	38.3	-	-	*			
13C-PCB-209	2.82e+07	1.22	y	52:30	0.97	8770				87.7	4.54e+06	3.74e+06
13C-PCB-194	3.33e+07	0.93	y	49:53	-	61.3						

Analyst: _____ Date: 8/30/18

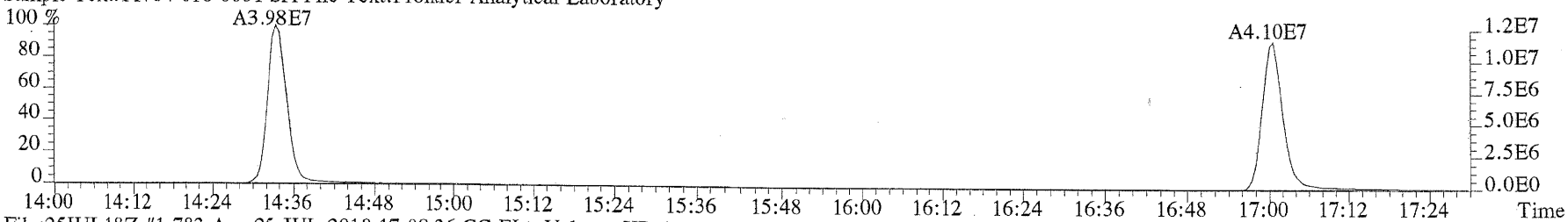
File:25JUL18Z #1-783 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



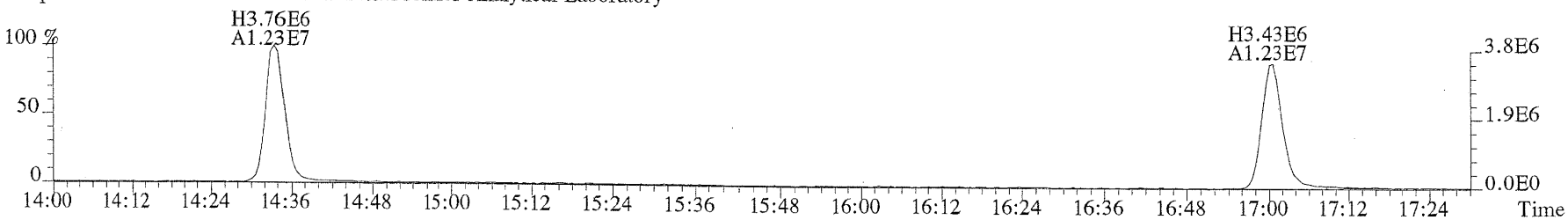
File:25JUL18Z #1-783 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



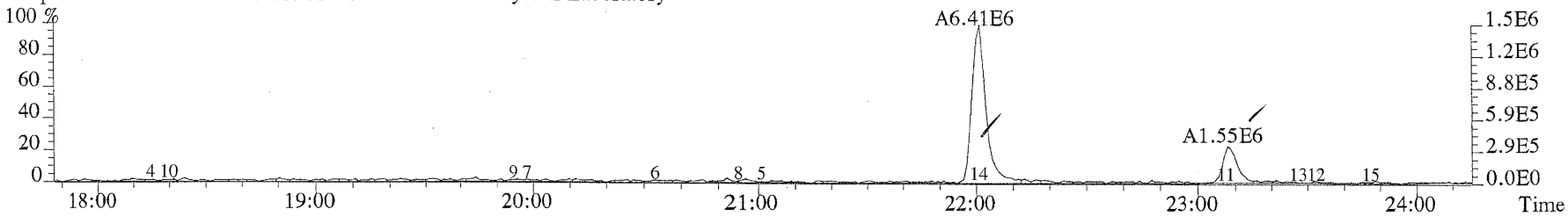
File:25JUL18Z #1-783 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



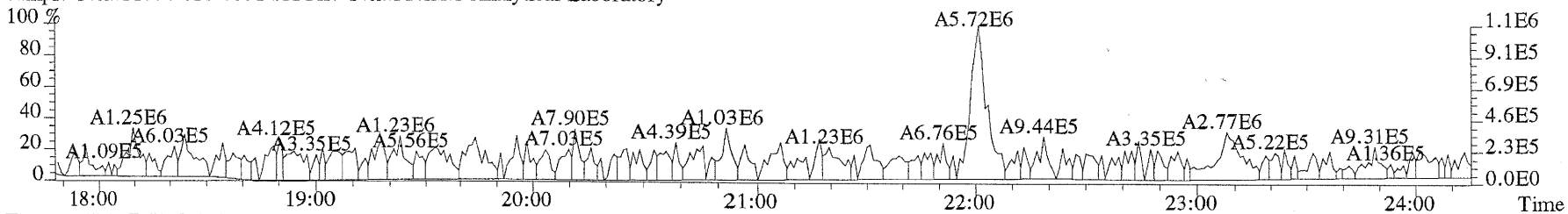
File:25JUL18Z #1-783 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



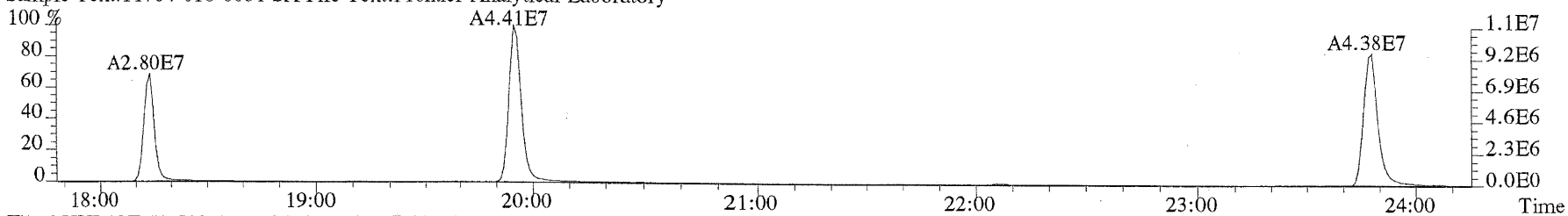
File:25JUL18Z #1-520 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



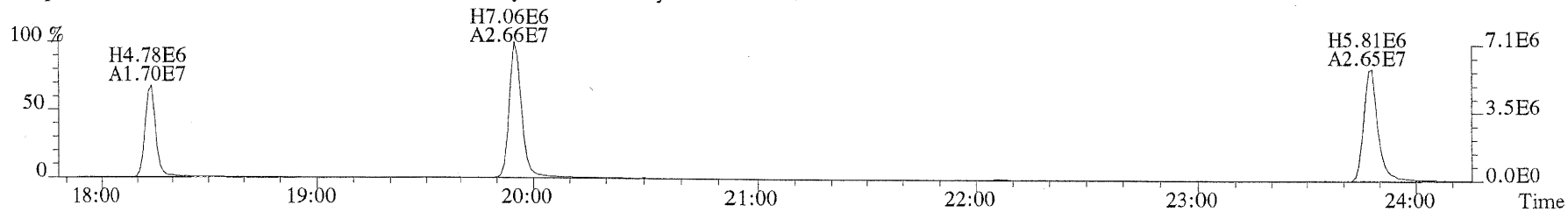
File:25JUL18Z #1-520 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



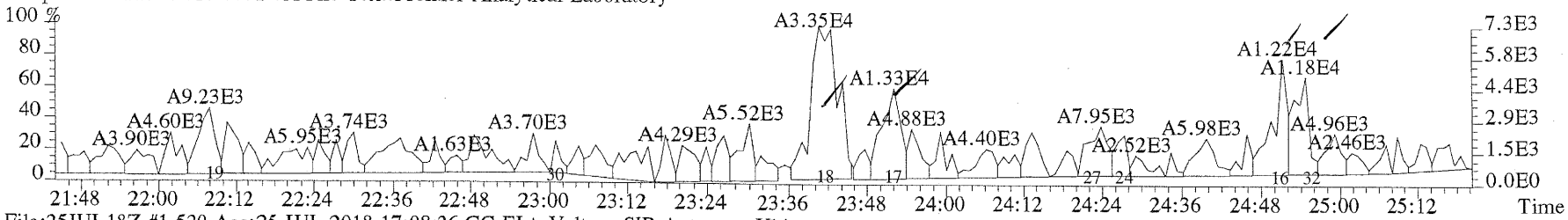
File:25JUL18Z #1-520 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



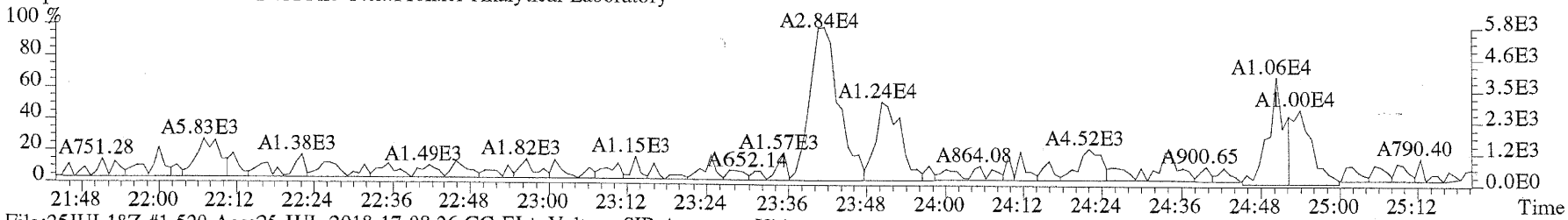
File:25JUL18Z #1-520 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



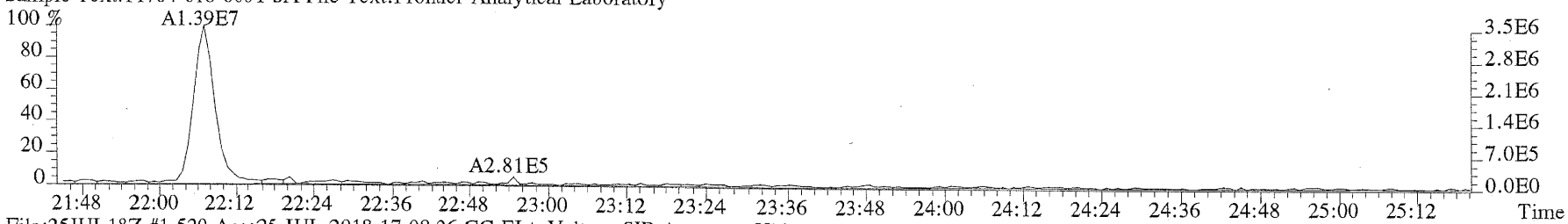
File:25JUL18Z #1-520 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



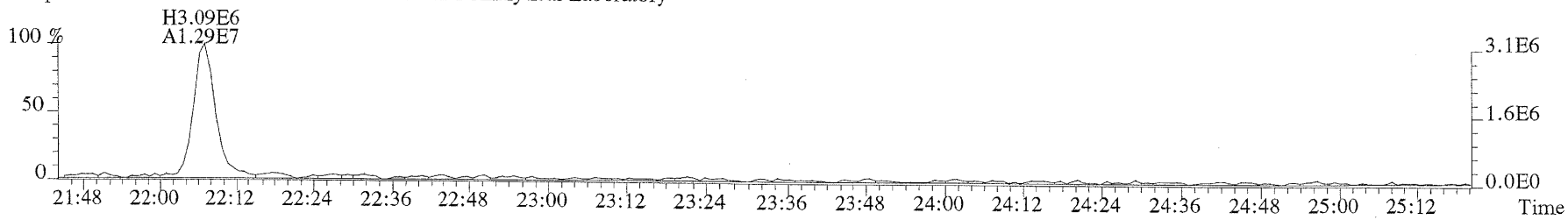
File:25JUL18Z #1-520 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



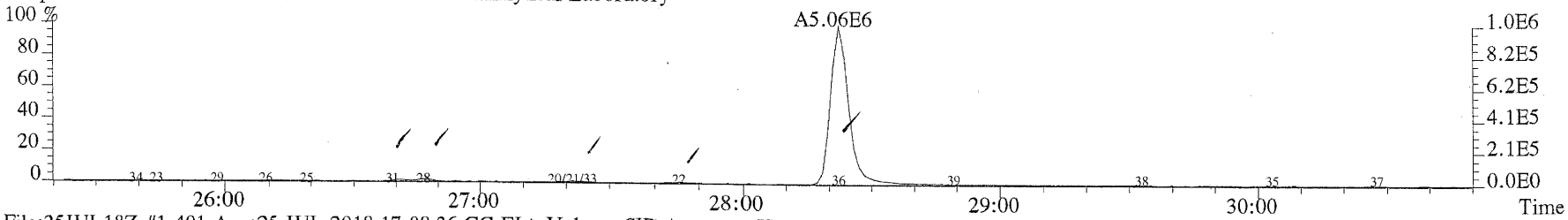
File:25JUL18Z #1-520 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



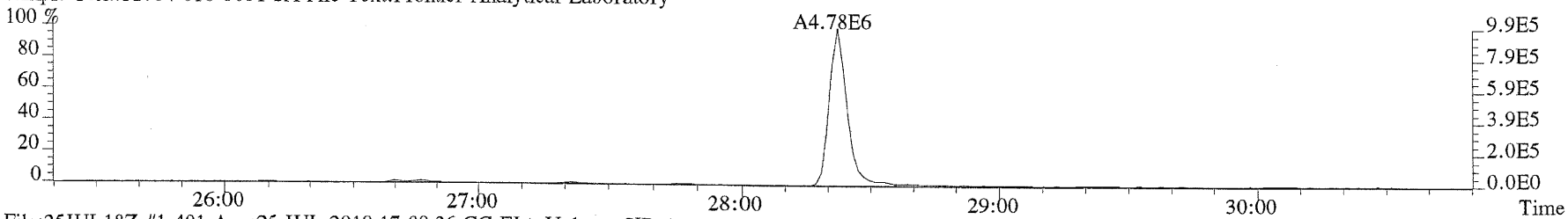
File:25JUL18Z #1-520 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



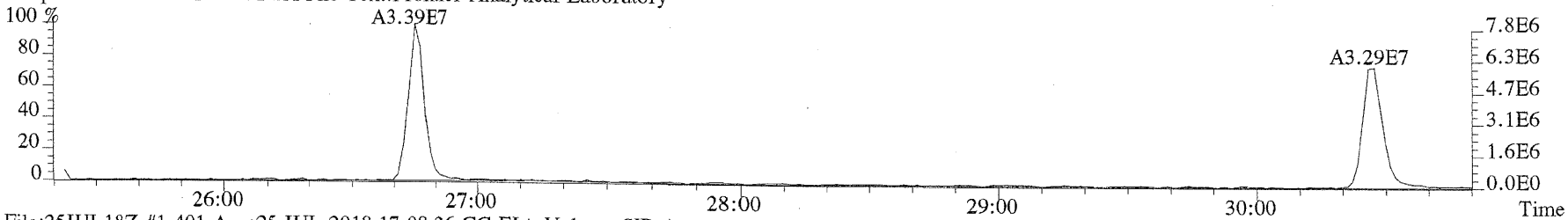
File:25JUL18Z #1-401 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



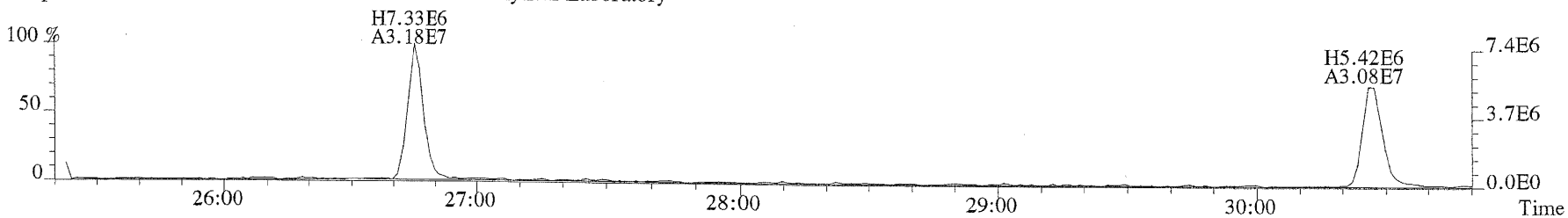
File:25JUL18Z #1-401 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



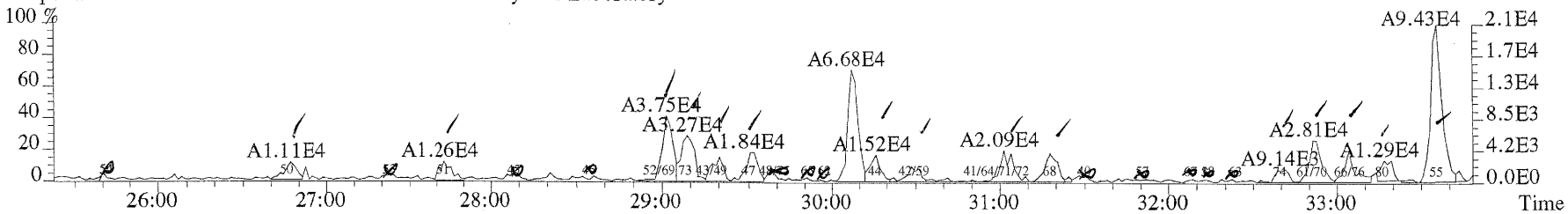
File:25JUL18Z #1-401 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



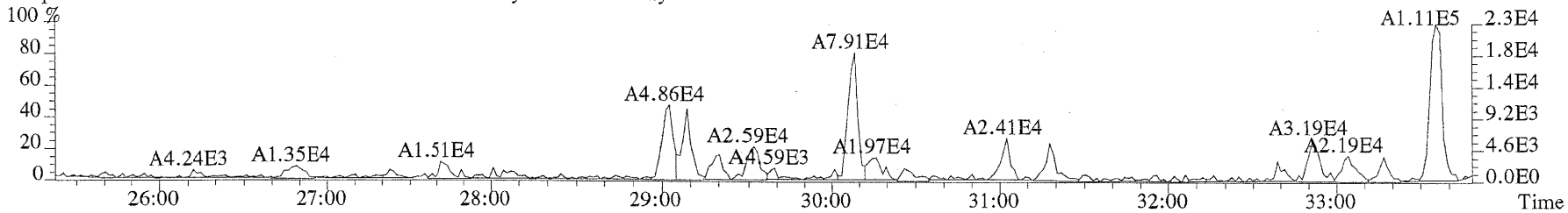
File:25JUL18Z #1-401 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



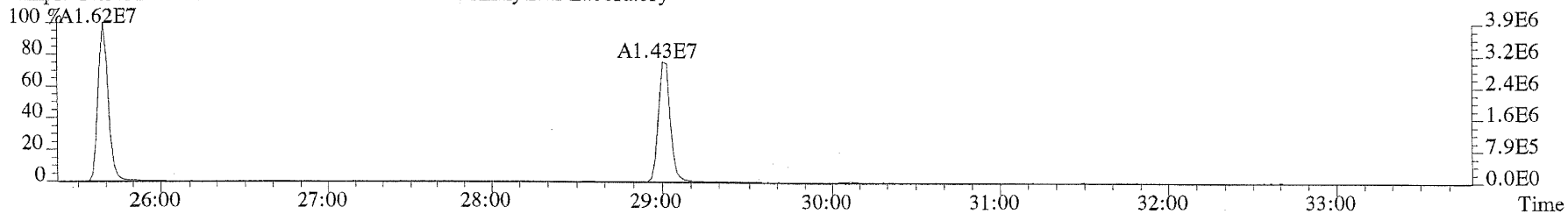
File:25JUL18Z #1-401 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



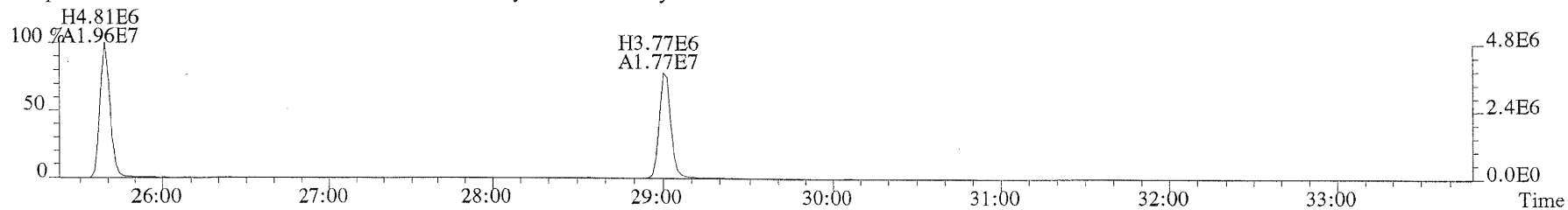
File:25JUL18Z #1-401 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



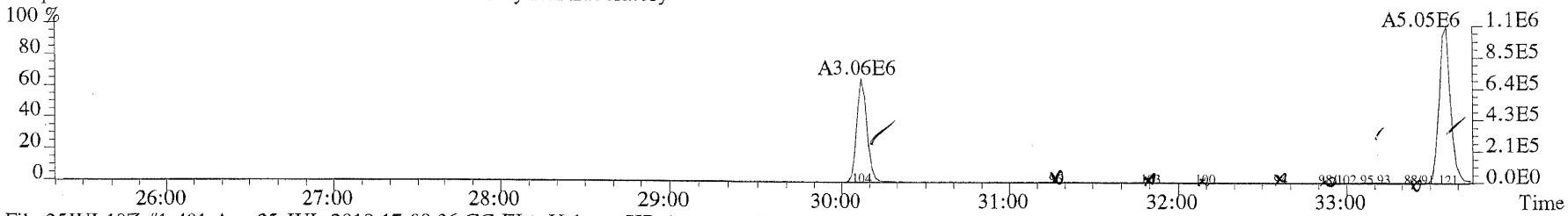
File:25JUL18Z #1-401 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



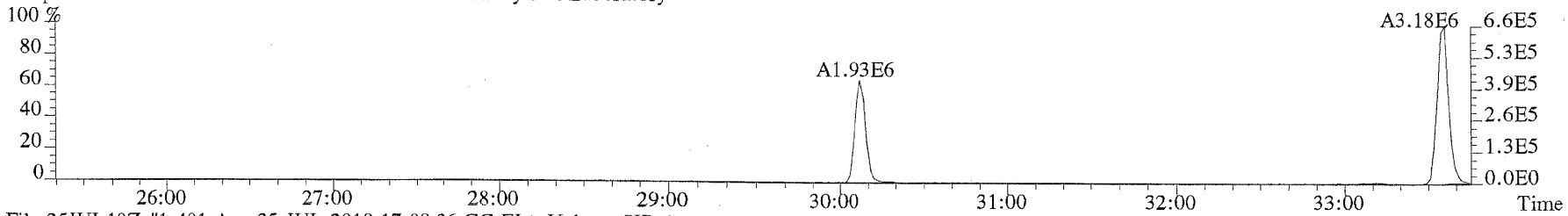
File:25JUL18Z #1-401 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-401 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-401 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-401 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
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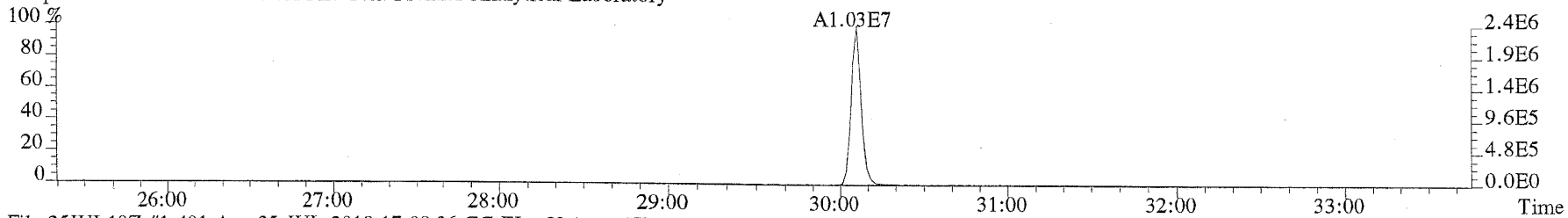
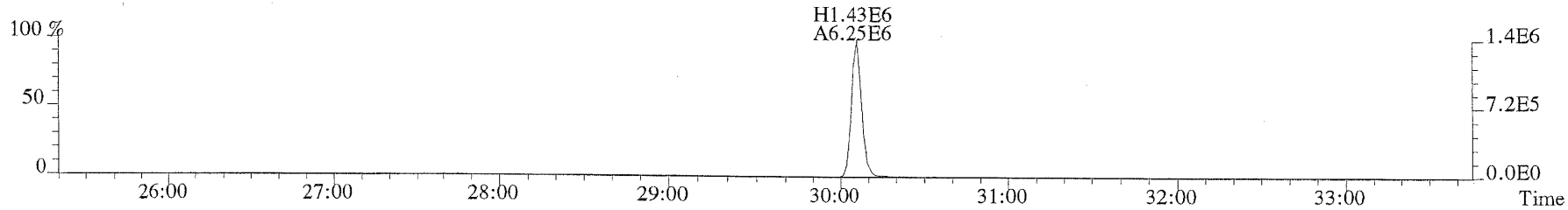
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-401 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



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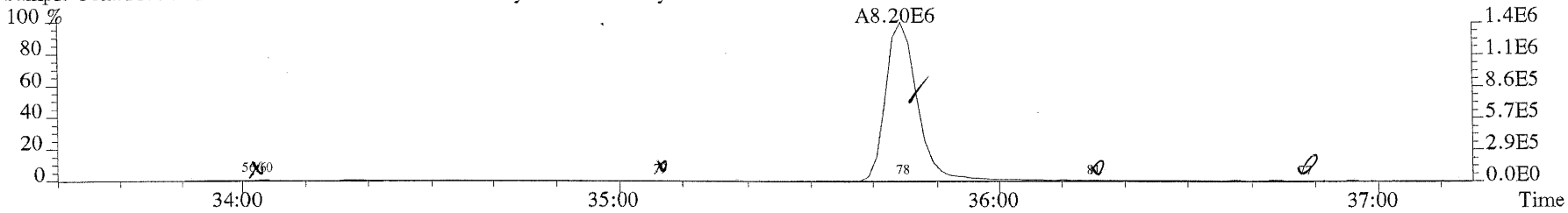

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291.9194 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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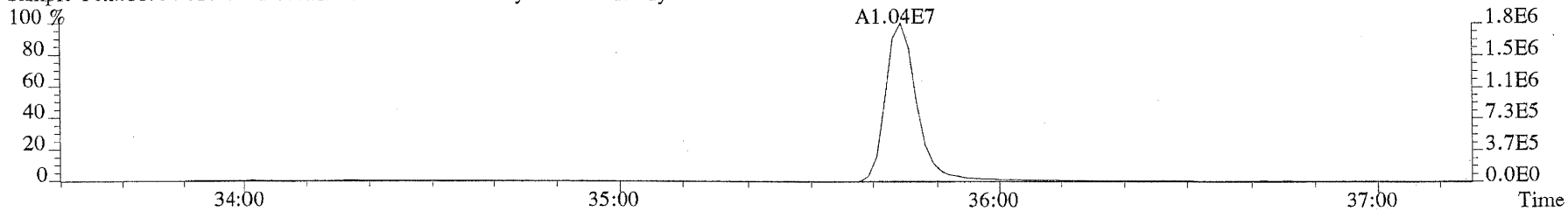

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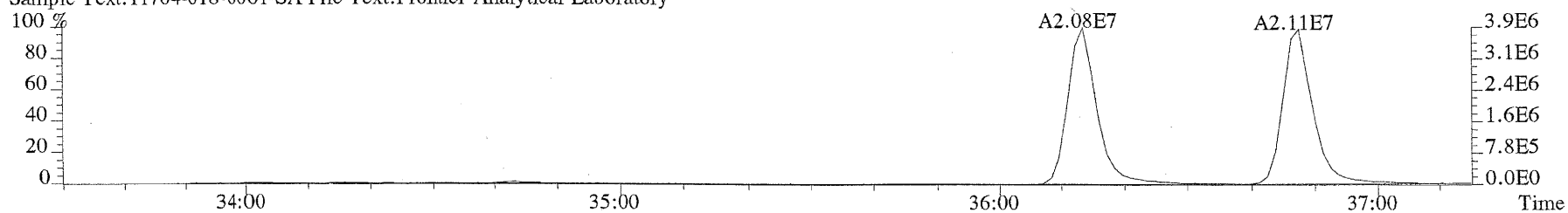
301.9626 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



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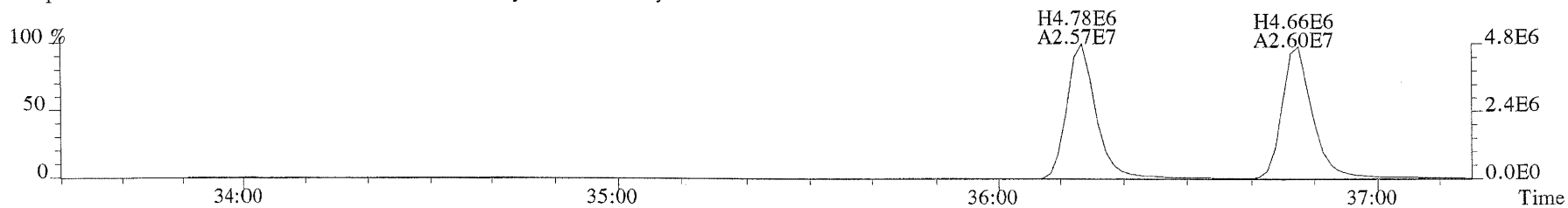
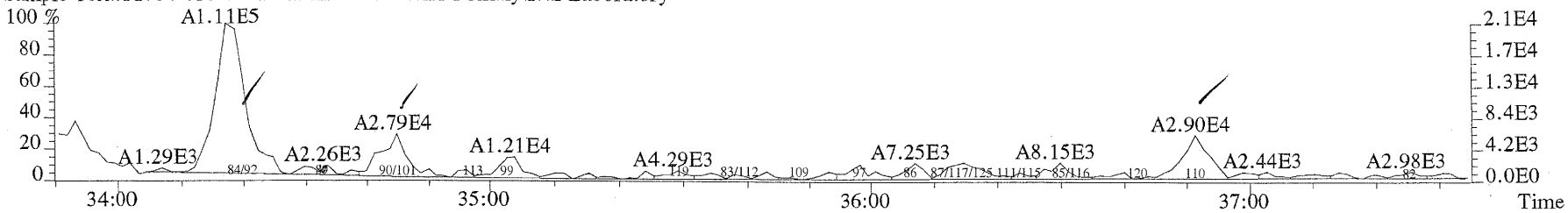
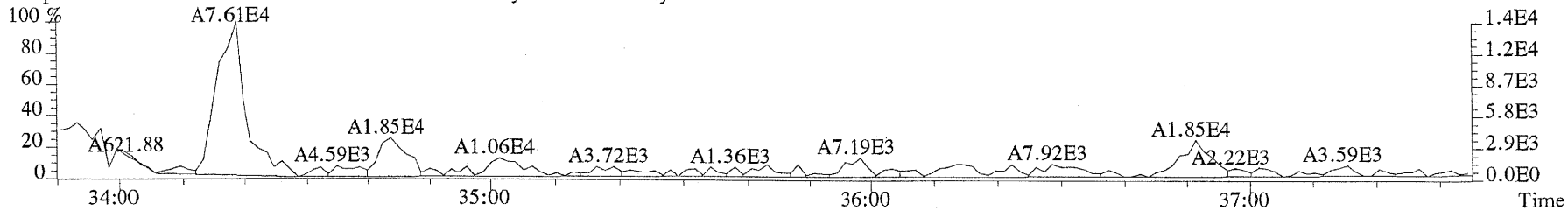
303.9597 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



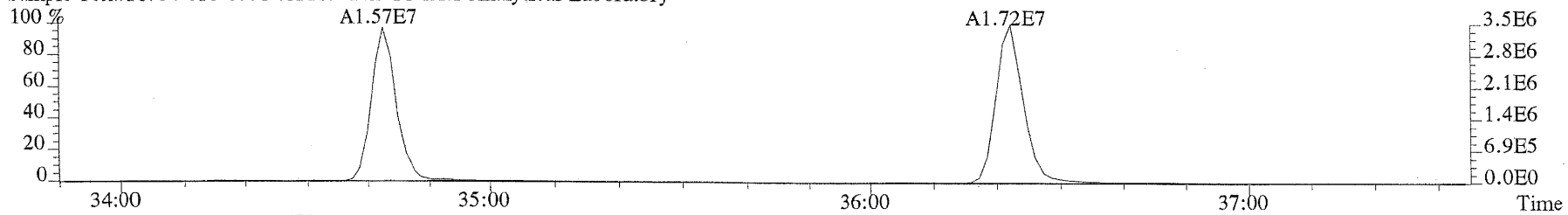
File:25JUL18Z #1-183 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



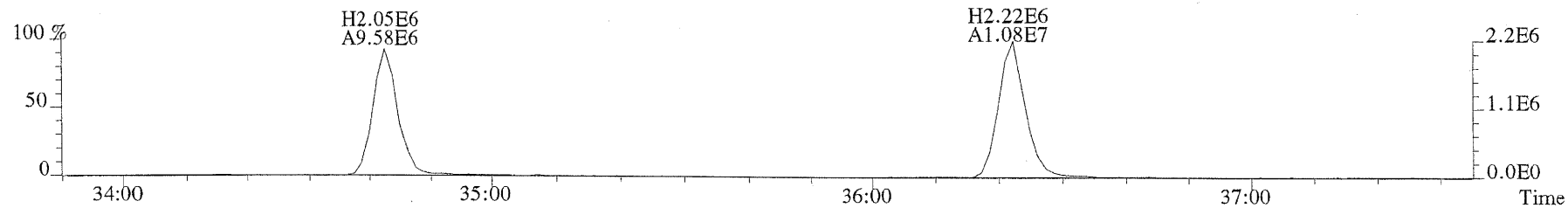
File:25JUL18Z #1-183 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



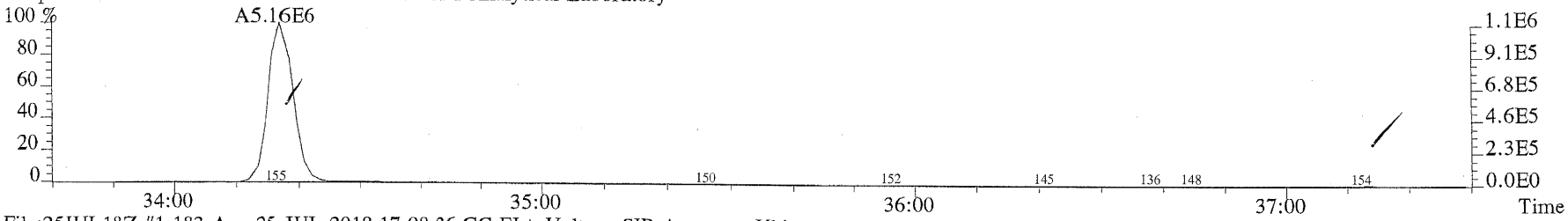
File:25JUL18Z #1-183 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



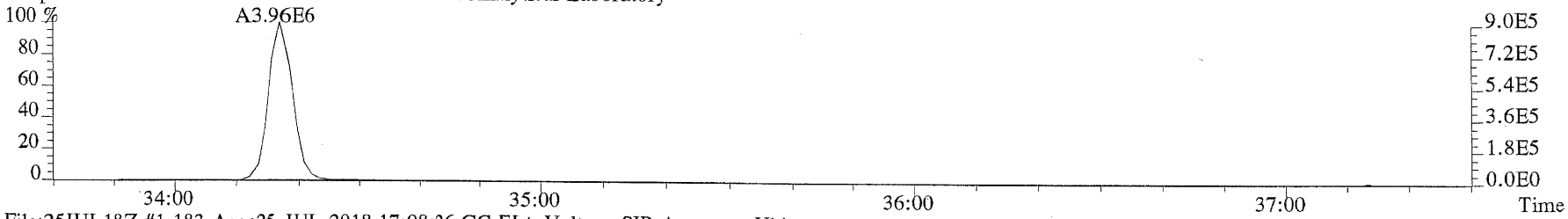
File:25JUL18Z #1-183 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



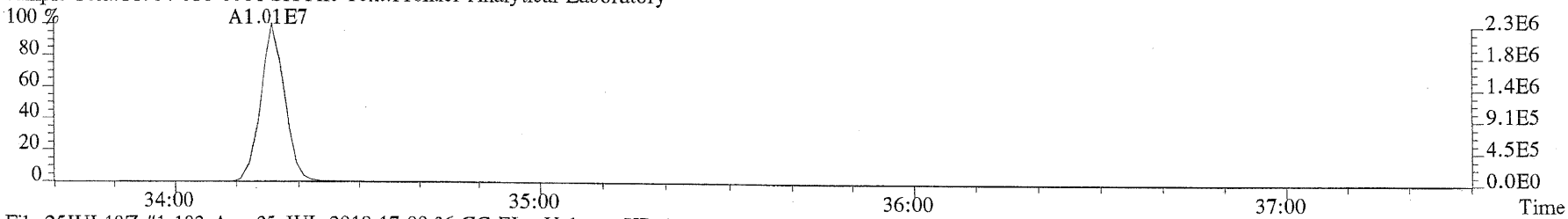
File:25JUL18Z #1-183 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



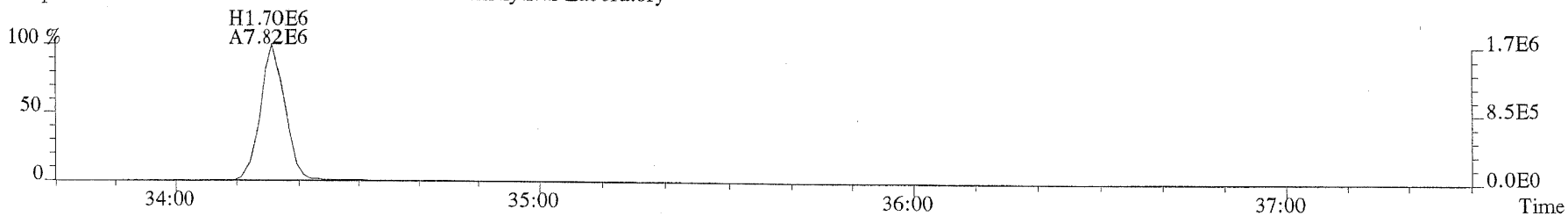
File:25JUL18Z #1-183 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



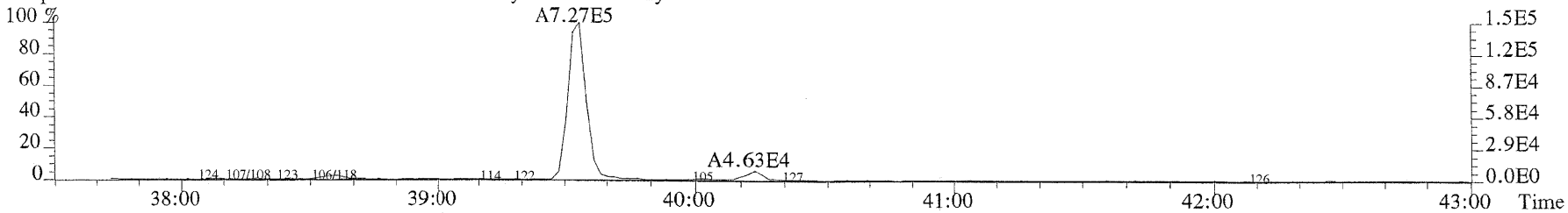
File:25JUL18Z #1-183 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



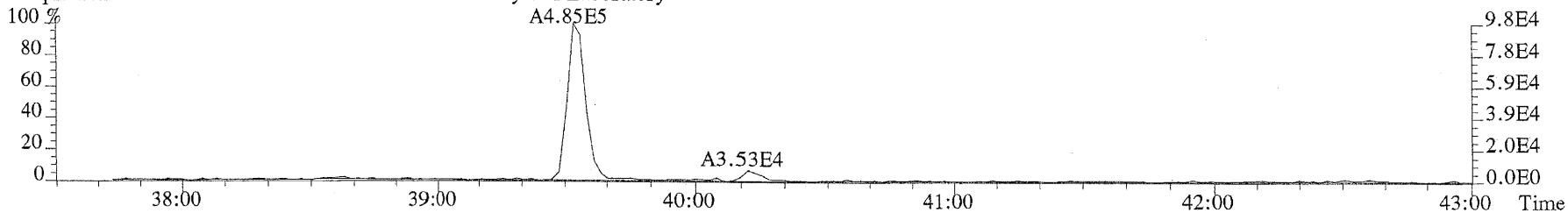
File:25JUL18Z #1-183 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



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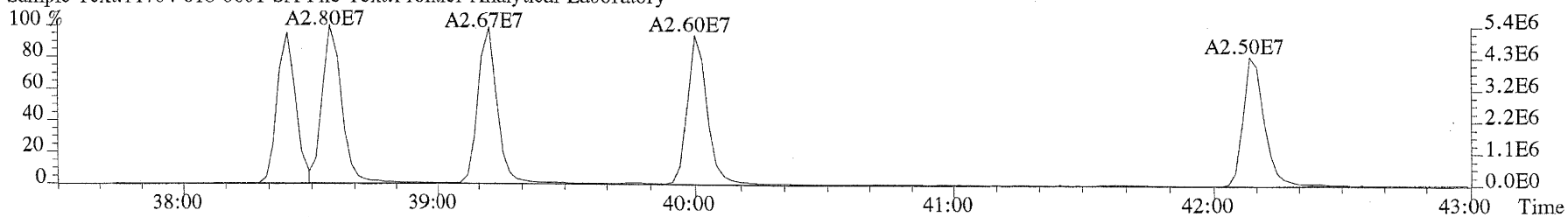
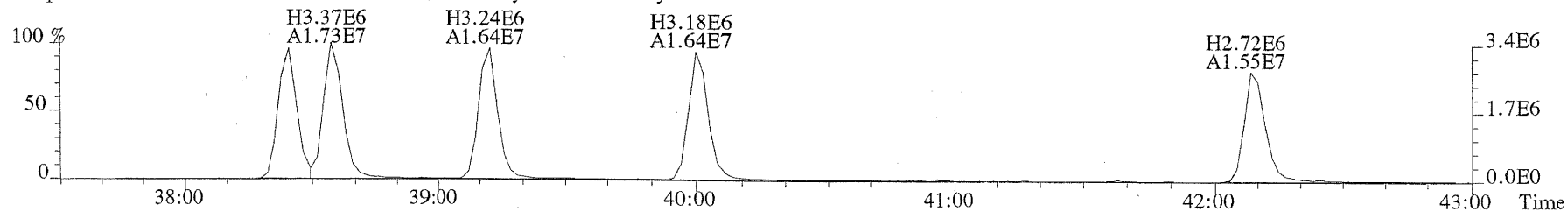
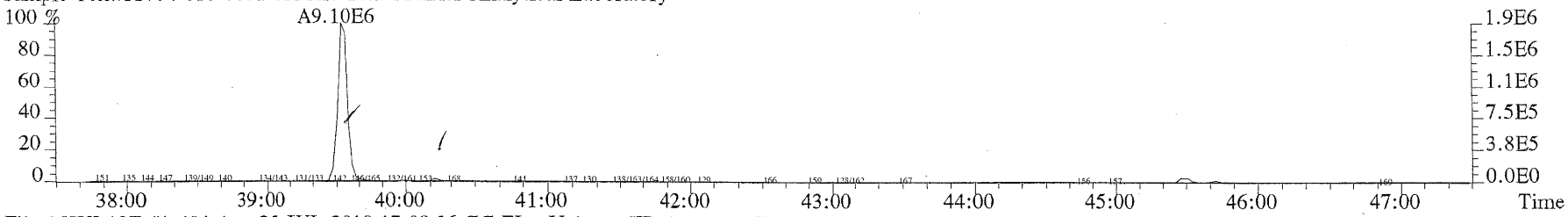
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



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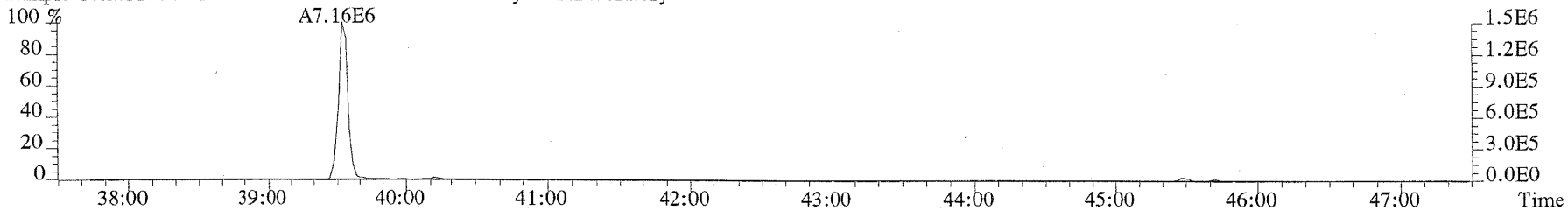
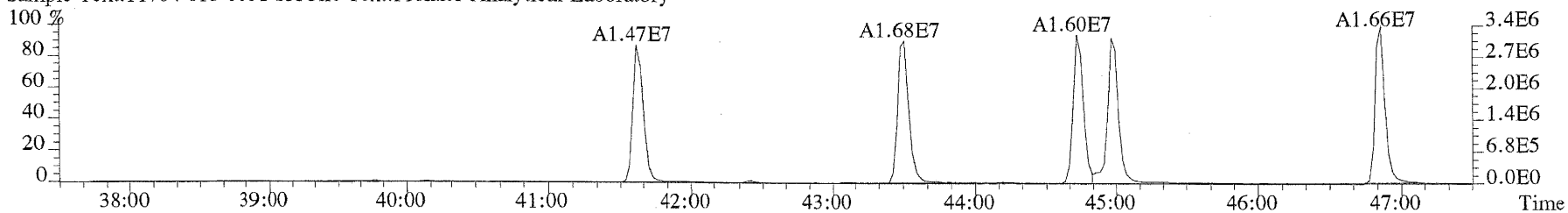
361.8385 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



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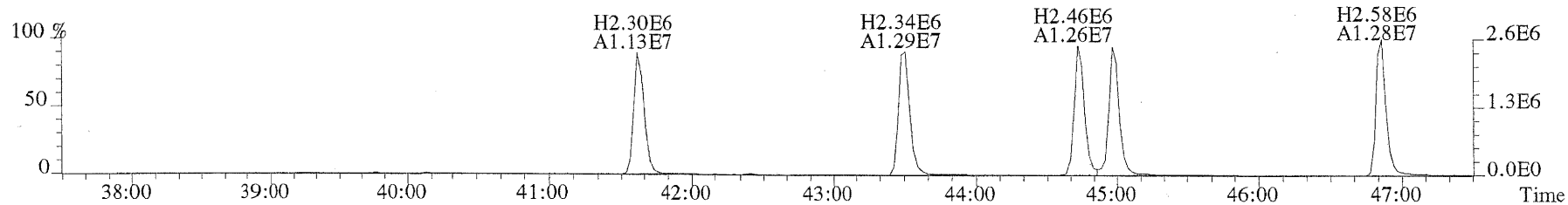
373.8788 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



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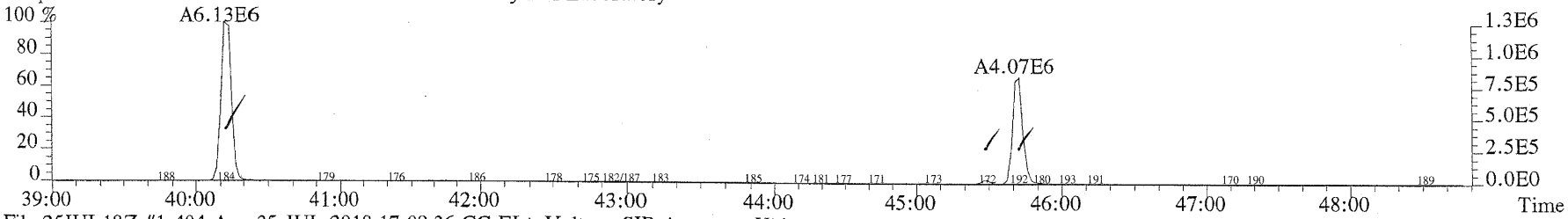
393.8025 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



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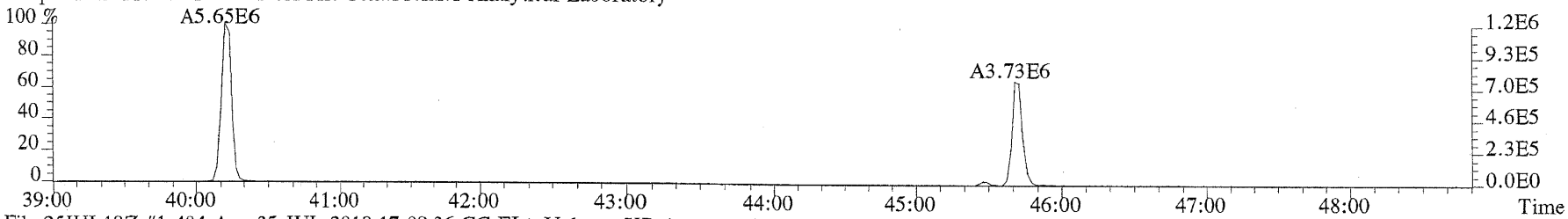
395.7995 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



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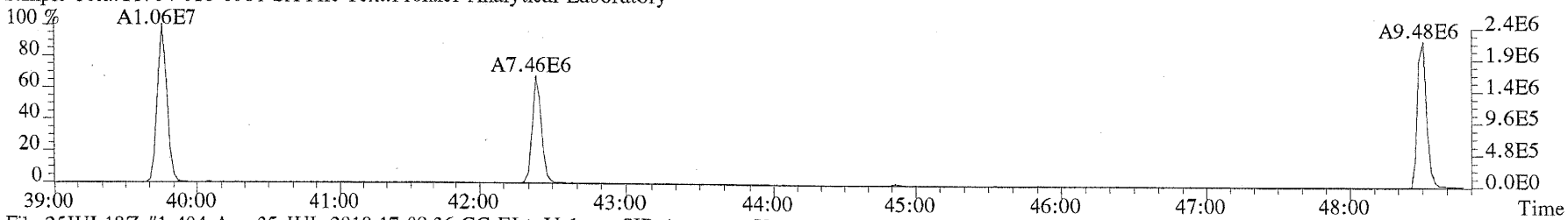
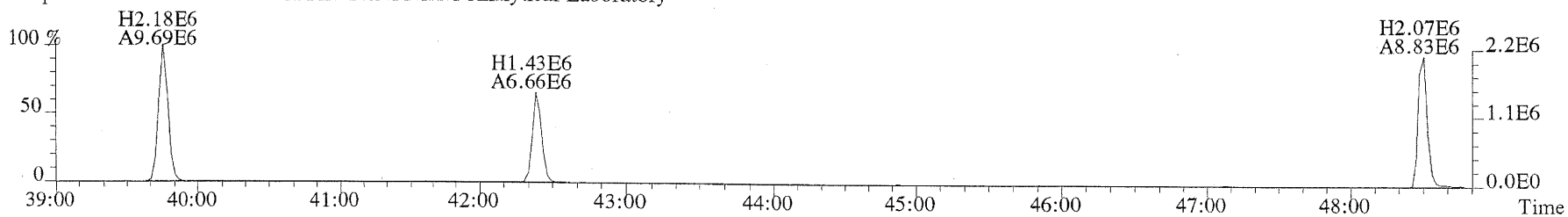
405.8428 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



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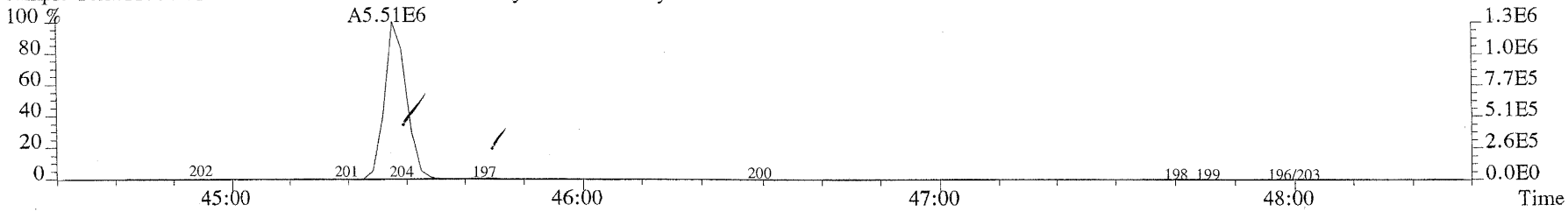
427.7635 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



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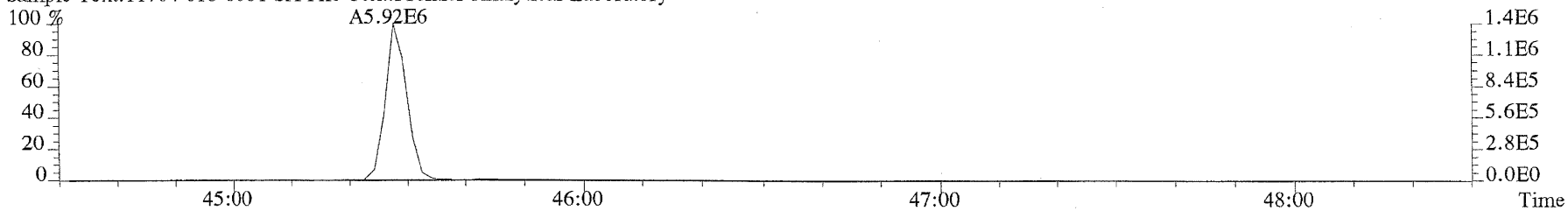
429.7606 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



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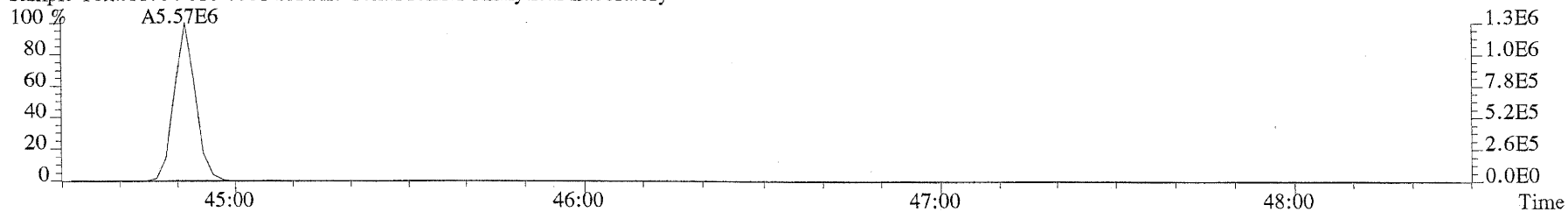
439.8038 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



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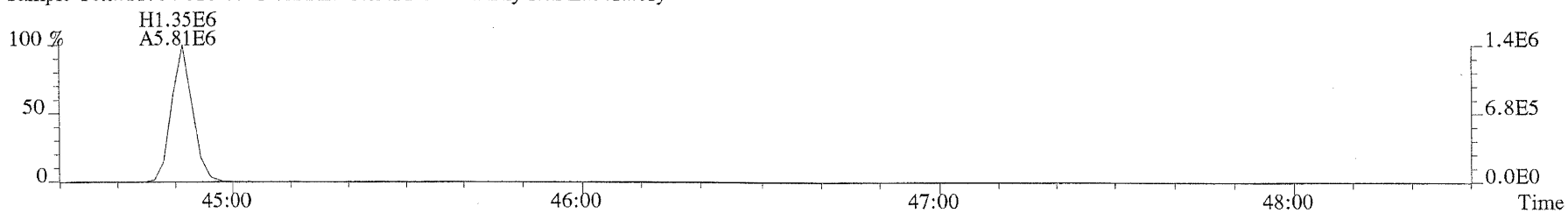
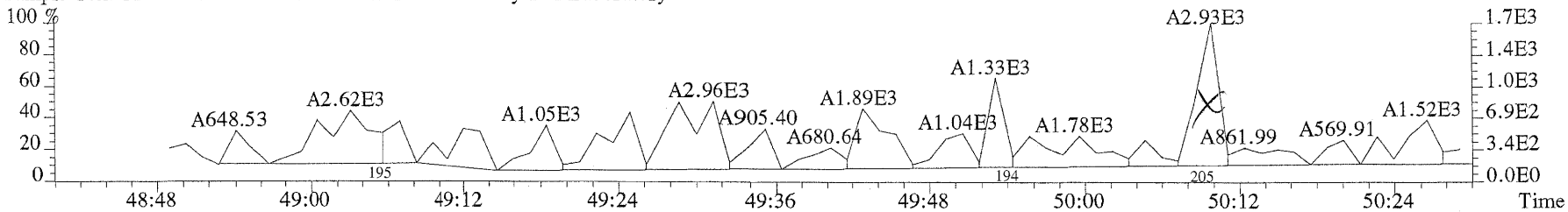
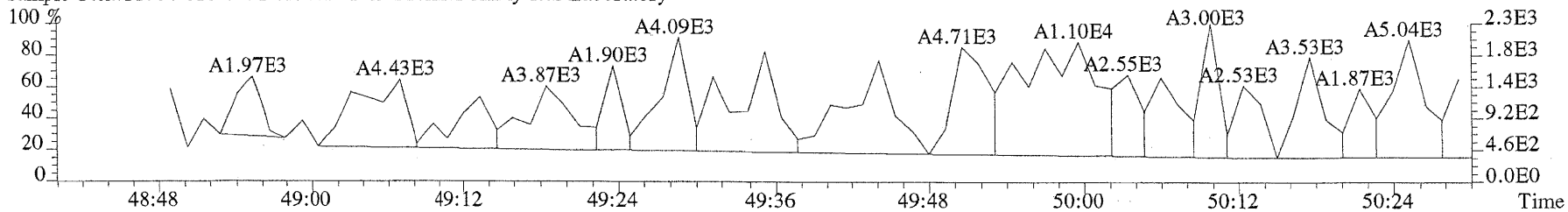
441.8008 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



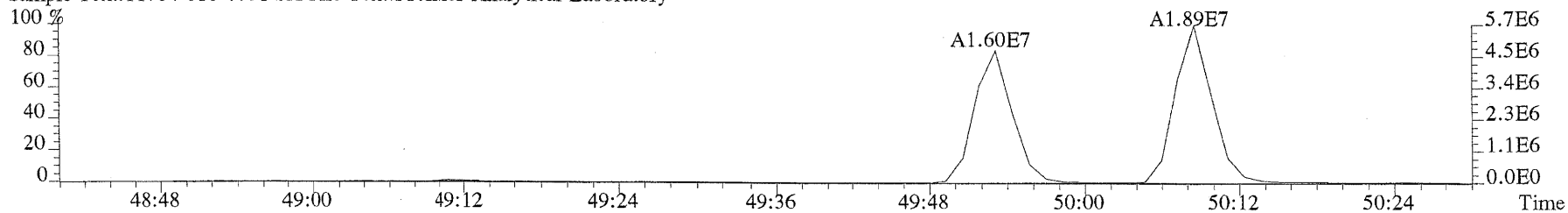
File:25JUL18Z #1-314 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



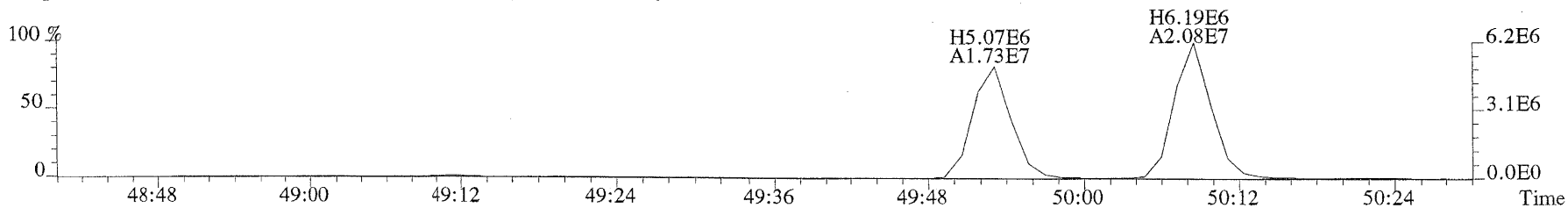
File:25JUL18Z #1-314 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



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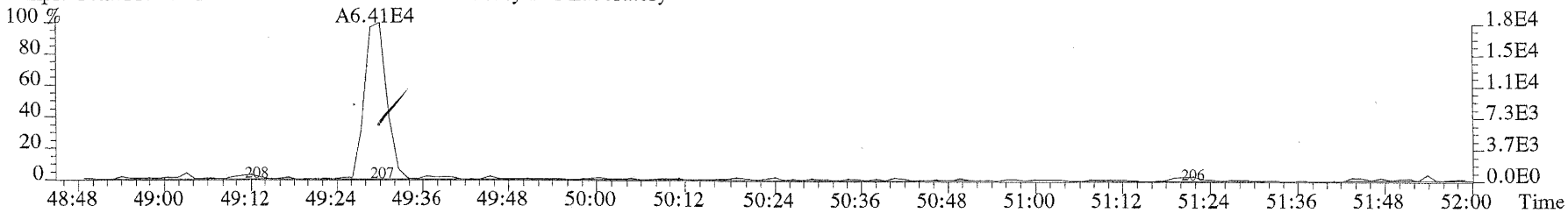
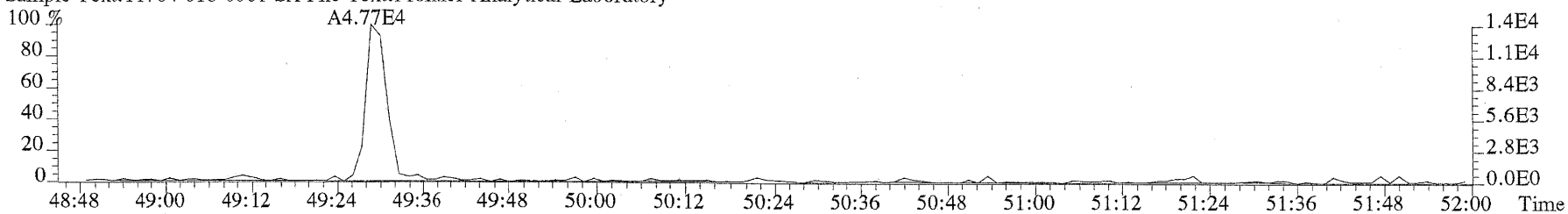
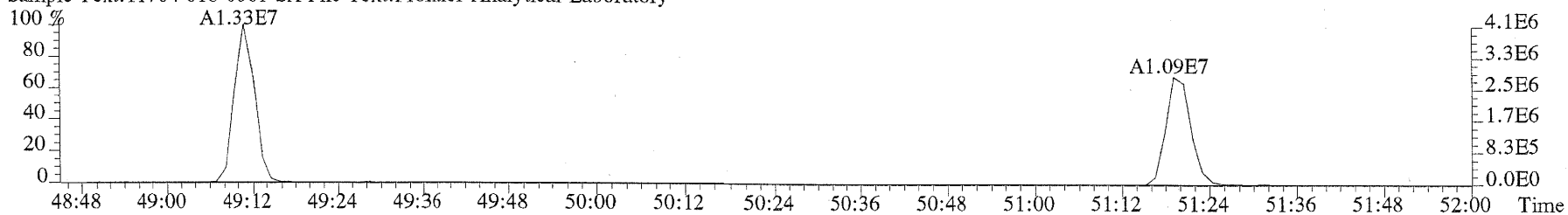
463.7216 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



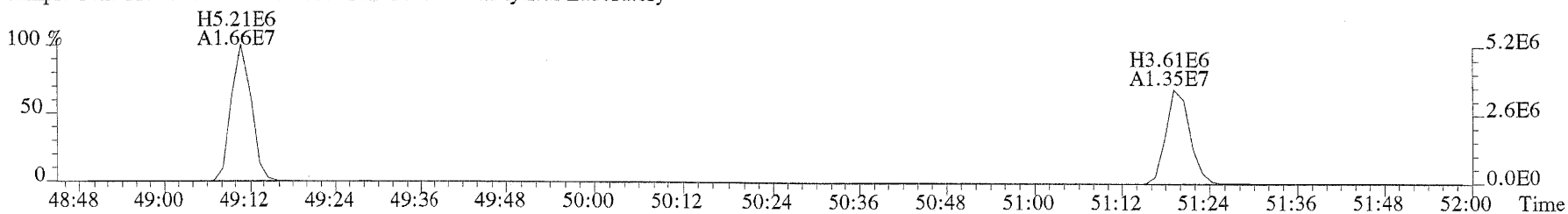
File:25JUL18Z #1-314 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



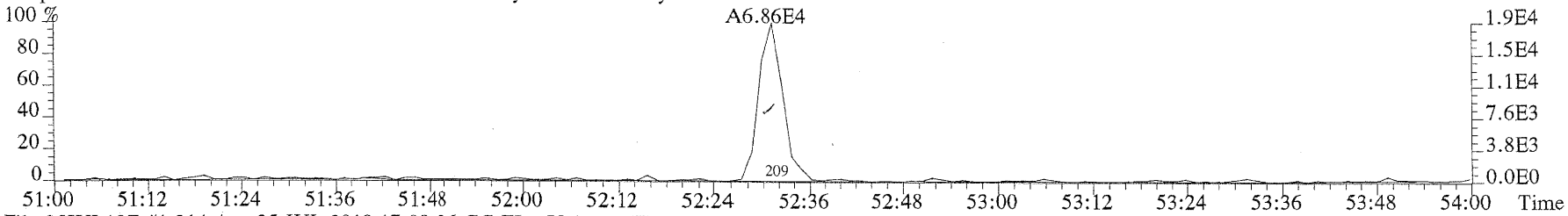
File:25JUL18Z #1-314 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



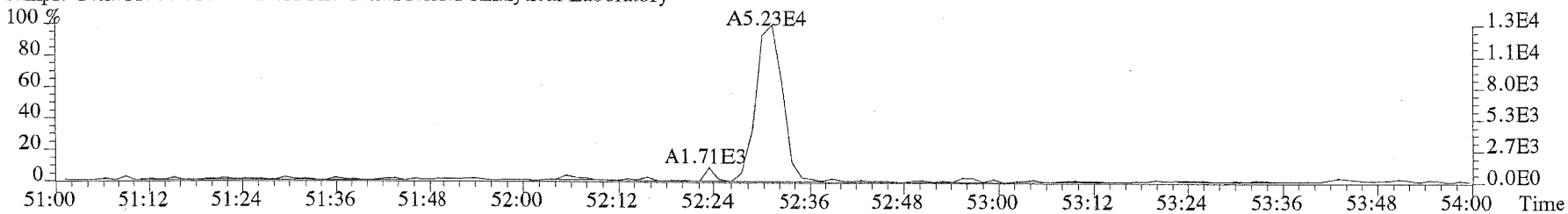
File:25JUL18Z #1-314 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



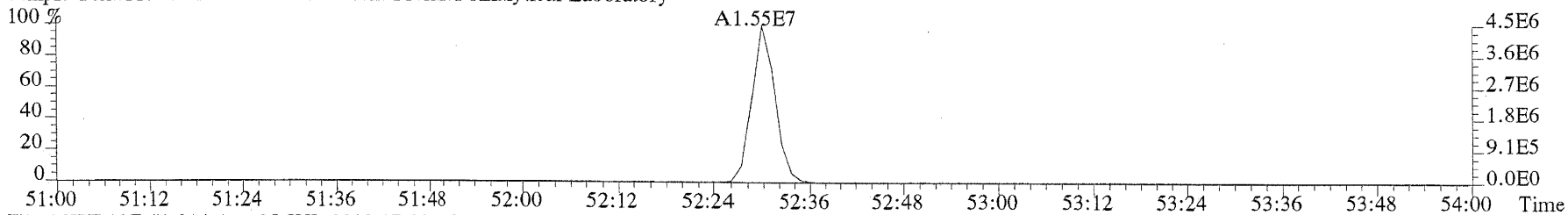
File:25JUL18Z #1-314 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



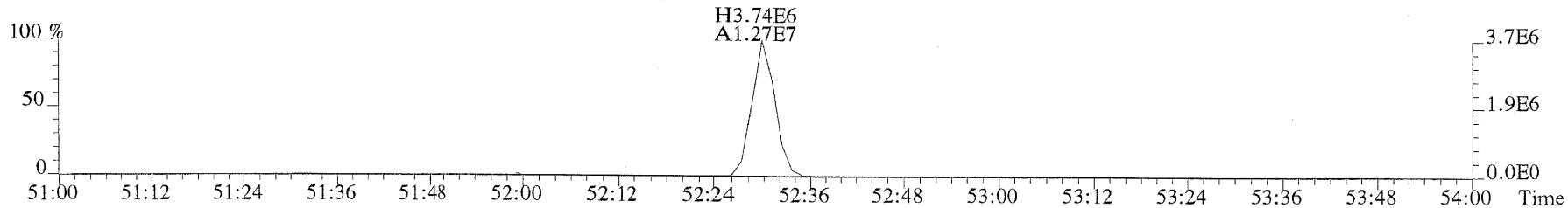
File:25JUL18Z #1-314 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 17:08:26 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-018-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11704-019-0001-SA Filename: 25JUL18Z Sam:12 Acquired: 25-JUL-18 18:06:47 ICal: DAILY209FAL4-7-25-18
Client ID: LDW-Y1-SU-S010-TB ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	*	n	NotFnd	1.19	*		2010	1490	5.31			
13C-PCB-1	4.41e+07	3.34	y	14:33	0.80	8470					84.7	1.07e+07	3.18e+06
PCB-2	*	*	n	NotFnd	1.10	*		2010	1490	5.92			
PCB-3	*	*	n	NotFnd	1.17	*		2010	1490	5.73			
13C-PCB-3	4.71e+07	3.35	y	17:00	0.85	8590					85.9	1.01e+07	2.98e+06
PCB-4	*	*	n	NotFnd	1.26	*		1080	2620	6.65			
PCB-10	*	*	n	NotFnd	1.15	*		1080	2620	6.32			
13C-PCB-4	3.92e+07	1.63	y	18:14	0.63	9560					95.6	6.84e+06	4.24e+06
PCB-9	*	*	n	NotFnd	1.28	*		1080	2620	5.66			
PCB-7	*	*	n	NotFnd	1.30	*		1080	2620	5.57			
PCB-6	*	*	n	NotFnd	1.28	*		1080	2620	5.68			
PCB-8	*	*	n	NotFnd	1.28	*		1080	2620	5.66			
PCB-5	*	*	n	NotFnd	1.29	*		1080	2620	5.61			
PCB-14	9.47e+06	1.47	y	22:01	1.23	1540		-	-	*			
PCB-11	1.78e+06	1.47	y	23:08	1.20	296		-	-	*			
PCB-13	*	*	n	NotFnd	1.24	*		1080	2620	5.85			
PCB-12	*	*	n	NotFnd	1.25	*		1080	2620	5.78			
PCB-15	*	*	n	NotFnd	1.12	*		1080	2620	5.83			
13C-PCB-15	6.08e+07	1.60	y	23:47	0.95	9890					98.9	8.82e+06	5.37e+06
PCB-19	*	*	n	NotFnd	1.26	*		1650	592	7.49			
PCB-30	*	*	n	NotFnd	1.70	*		1650	592	5.56			
PCB-18	4.99e+04	1.01	y	23:43	1.21	17.5	J	-	-	*			
PCB-17	*	*	n	NotFnd	1.29	*		1650	592	7.30			
PCB-27	*	*	n	NotFnd	1.64	*		1650	592	5.76			
PCB-24	*	*	n	NotFnd	1.68	*		1650	592	5.63			
PCB-16	*	*	n	NotFnd	1.42	*		1650	592	6.63			
PCB-32	*	*	n	NotFnd	1.44	*		1650	592	6.56			
13C-PCB-19	2.36e+07	1.05	y	22:07	0.40	9170					91.7	3.11e+06	2.84e+06
13C-PCB-9	6.46e+07	1.65	y	19:55	-	56.3							
PCB-34	*	*	n	NotFnd	1.09	*		2180	1020	6.67			
PCB-23	*	*	n	NotFnd	1.17	*		2180	1020	6.18			
PCB-29	*	*	n	NotFnd	1.18	*		2180	1020	6.18			
PCB-26	*	*	n	NotFnd	1.12	*		2180	1020	6.50			
PCB-25	*	*	n	NotFnd	1.38	*		2180	1020	5.27			
PCB-31	1.04e+05	1.16	y	26:40	1.10	16.8	J	-	-	*			
PCB-28	1.17e+05	0.90	y	26:47	1.34	15.5	J	-	-	*			
PCB-20	9.62e+04	1.14	y	27:22	1.19	14.4	J	-	-	*		Co-elute PCB 21/33	
PCB-21	9.62e+04	1.14	y	27:22	1.19	14.4	J	-	-	*		Co-elute PCB 20/33	
PCB-33	9.62e+04	1.14	y	27:22	1.19	14.4	J	-	-	*		Co-elute PCB 20/21	
PCB-22	*	*	n	NotFnd	1.17	*		2180	1020	6.22			
PCB-36	7.97e+06	1.08	y	28:23	1.09	1300		-	-	*			
PCB-39	*	*	n	NotFnd	1.13	*		2180	1020	6.41			
PCB-38	*	*	n	NotFnd	1.17	*		2180	1020	6.23			
PCB-35	*	*	n	NotFnd	1.04	*		2180	1020	6.98			
PCB-37	*	*	n	NotFnd	1.23	*		2180	1020	5.90			
13C-PCB-37	5.64e+07	1.07	y	30:27	1.68	11600					116	5.69e+06	5.31e+06

PCB-54	*	*	n	NotFnd	1.19	*		396	636	3.24			
PCB-50	*	*	n	NotFnd	0.90	*		396	636	4.32			
PCB-53	*	*	n	NotFnd	0.91	*		396	636	4.25			
PCB-51	*	*	n	NotFnd	0.93	*		396	636	4.18			
PCB-45	*	*	n	NotFnd	0.78	*		396	636	4.93			
PCB-46	*	*	n	NotFnd	0.77	*		396	636	5.05			
PCB-52	7.72e+04	0.75	y	29:02	1.08	24.2		-	-	*	Co-elute PCB 69		
PCB-69	7.72e+04	0.75	y	29:02	1.08	24.2		-	-	*	Co-elute PCB 52		
PCB-73	5.66e+04	0.81	y	29:08	1.19	16.2	J	-	-	*			
PCB-43	3.81e+04	0.69	y	29:18	0.88	14.7	J	-	-	*	Co-elute PCB 49		
PCB-49	3.81e+04	0.69	y	29:18	0.88	14.7	J	-	-	*	Co-elute PCB 43		
PCB-47	3.07e+04	0.77	y	29:31	1.15	9.05	J	-	-	*			
PCB-48	*	*	n	NotFnd	1.06	*		396	636	3.64	Co-elute PCB 75		
PCB-75	*	*	n	NotFnd	1.06	*		396	636	3.64	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.09	*		396	636	3.53			
PCB-62	*	*	n	NotFnd	1.15	*		396	636	3.37			
PCB-44	3.39e+04	0.67	y	30:15	0.82	14.1	J	-	-	*			
PCB-42	*	*	n	NotFnd	1.06	*		396	636	3.64	Co-elute PCB 59		
PCB-59	*	*	n	NotFnd	1.06	*		396	636	3.64	Co-elute PCB 42		
PCB-72	3.74e+04	0.77	y	31:03	1.15	11.1	J	-	-	*	Co-elute PCB 41/71/64		
PCB-41	3.74e+04	0.77	y	31:03	1.15	11.1	J	-	-	*	Co-elute PCB 72/71/64		
PCB-71	3.74e+04	0.77	y	31:03	1.15	11.1	J	-	-	*	Co-elute PCB 72/41/64		
PCB-64	3.74e+04	0.77	y	31:03	1.15	11.1	J	-	-	*	Co-elute PCB 72/41/71		
PCB-68	3.57e+04	0.75	y	31:20	1.25	9.67	J	-	-	*			
PCB-40	*	*	n	NotFnd	0.71	*		396	636	5.48			
PCB-57	*	*	n	NotFnd	1.13	*		396	636	3.41			
PCB-67	*	*	n	NotFnd	1.12	*		396	636	3.46			
PCB-58	*	*	n	NotFnd	1.18	*		396	636	3.27			
PCB-63	*	*	n	NotFnd	1.14	*		396	636	3.41			
PCB-74	2.33e+04	0.86	y	32:42	1.21	6.54	J	-	-	*			
PCB-61	4.30e+04	0.86	y	32:52	1.23	11.8	J	-	-	*	Co-elute PCB 70		
PCB-70	4.30e+04	0.86	y	32:52	1.23	11.8	J	-	-	*	Co-elute PCB 61		
PCB-76	3.09e+04	0.68	y	33:05	1.21	8.69	J	-	-	*	Co-elute PCB 66		
PCB-66	3.09e+04	0.68	y	33:05	1.21	8.69	J	-	-	*	Co-elute PCB 76		
PCB-80	3.39e+04	0.70	y	33:17	1.30	8.84	J	-	-	*			
PCB-55	1.48e+05	0.86	y	33:35	1.20	41.9		-	-	*			
13C-PCB-54	2.95e+07	0.84	y	25:38	1.11	9150					91.5	3.06e+06	3.61e+06
PCB-104	4.25e+06	1.63	y	30:08	1.35	2220		-	-	*			
PCB-96	*	*	n	NotFnd	1.22	*		300	296	3.86			
PCB-103	*	*	n	NotFnd	1.05	*		300	296	4.51			
PCB-100	*	*	n	NotFnd	1.07	*		300	296	4.40			
PCB-94	*	*	n	NotFnd	0.90	*		300	296	5.25			
PCB-98	*	*	n	NotFnd	0.54	*		300	296	8.73	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.54	*		300	296	8.73	Co-elute PCB 98		
PCB-95	6.24e+04	1.63	y	33:07	1.08	40.7		-	-	*			
PCB-93	*	*	n	NotFnd	0.98	*		300	296	4.80			
PCB-88	*	*	n	NotFnd	1.06	*		300	296	4.47	Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	1.06	*		300	296	4.47	Co-elute PCB 88		
PCB-121	6.58e+06	1.63	y	33:35	1.10	4230		-	-	*			
13C-PCB-104	1.42e+07	1.61	y	30:06	0.50	9740					97.4	1.96e+06	1.21e+06
13C-PCB-28	6.10e+07	1.04	y	26:45	1.97	10700					107	6.75e+06	6.23e+06
13C-PCB-52	2.90e+07	0.82	y	29:01	-	51.6							

PCB-56	*	*	n	NotFnd	1.08	*		940	1200	6.66				Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.08	*		940	1200	6.66				Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.14	*		940	1200	6.33				
PCB-78	1.45e+07	0.78	y	35:44	1.09	3260		-	-	*				
PCB-81	*	*	n	NotFnd	1.14	*		940	1200	6.14				
13C-PCB-81	4.07e+07	0.81	y	36:13	1.57	11600					116	3.41e+06	4.21e+06	
PCB-77	*	*	n	NotFnd	1.11	*		940	1200	6.65				
13C-PCB-77	4.02e+07	0.83	y	36:47	1.61	11200					112	3.31e+06	3.96e+06	
PCB-155	7.77e+06	1.29	y	34:18	1.24	4070		-	-	*				
PCB-150	*	*	n	NotFnd	1.13	*		332	104	2.95				
PCB-152	*	*	n	NotFnd	1.06	*		332	104	3.14				
PCB-145	*	*	n	NotFnd	1.10	*		332	104	3.01				
PCB-136	*	*	n	NotFnd	1.06	*		332	104	3.14				
PCB-148	*	*	n	NotFnd	0.84	*		332	104	3.96				
PCB-154	*	*	n	NotFnd	0.97	*		332	104	3.41				
13C-PCB-155	1.54e+07	1.31	y	34:15	0.67	10200					102	1.86e+06	1.43e+06	
13C-PCB-111	2.53e+07	1.59	y	36:22	1.16	9760					97.6	3.18e+06	1.93e+06	
13C-PCB-101	2.24e+07	1.61	y	34:43	-	47.4								
PCB-84	1.60e+05	1.65	y	34:18	0.61	69.1		-	-	*				Co-elute PCB 92
PCB-92	1.60e+05	1.65	y	34:18	0.61	69.1		-	-	*				Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.58	*		640	996	9.47				
PCB-90	4.85e+04	1.40	y	34:44	0.68	18.9	J	-	-	*				Co-elute PCB 101
PCB-101	4.85e+04	1.40	y	34:44	0.68	18.9	J	-	-	*				Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.77	*		640	996	7.16				
PCB-99	*	*	n	NotFnd	0.75	*		640	996	7.36				
PCB-119	*	*	n	NotFnd	0.81	*		640	996	6.75				
PCB-83	*	*	n	NotFnd	0.69	*		640	996	8.00				Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.69	*		640	996	8.00				Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.82	*		640	996	6.70				
PCB-97	*	*	n	NotFnd	0.73	*		640	996	7.56				
PCB-86	*	*	n	NotFnd	0.70	*		640	996	7.81				
PCB-125	*	*	n	NotFnd	0.72	*		640	996	7.60				Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.72	*		640	996	7.60				Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.72	*		640	996	7.60				Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	0.99	*		640	996	5.53				Co-elute PCB 115
PCB-115	*	*	n	NotFnd	0.99	*		640	996	5.53				Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.71	*		640	996	7.77				Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.71	*		640	996	7.77				Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.81	*		640	996	6.77				
PCB-110	5.36e+04	1.62	y	36:52	0.96	14.8	J	-	-	*				
PCB-82	*	*	n	NotFnd	0.50	*		640	996	11.0				
PCB-124	*	*	n	NotFnd	0.91	*		732	1290	7.51				
PCB-108	*	*	n	NotFnd	1.07	*		732	1290	6.33				Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.07	*		732	1290	6.33				Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.23	*		732	1290	5.72				
13C-PCB-123	3.66e+07	1.61	y	38:23	1.40	11100					111	4.44e+06	2.74e+06	
PCB-118	*	*	n	NotFnd	1.03	*		732	1290	6.48				Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.03	*		732	1290	6.48				Co-elute PCB 118
13C-PCB-118	3.98e+07	1.58	y	38:35	1.53	11000					110	4.66e+06	2.91e+06	
PCB-114	*	*	n	NotFnd	1.07	*		732	1290	6.33				
13C-PCB-114	3.79e+07	1.60	y	39:11	1.46	11000					110	4.67e+06	2.83e+06	
PCB-122	*	*	n	NotFnd	1.10	*		732	1290	6.19				
PCB-105	*	*	n	NotFnd	1.08	*		732	1290	6.23				
13C-PCB-105	3.69e+07	1.61	y	40:00	1.44	10900					109	4.65e+06	2.89e+06	

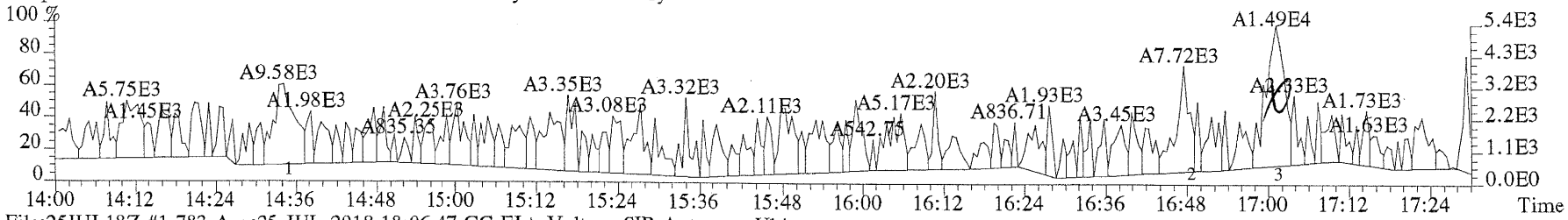
PCB-127	*	*	n	NotFnd	0.99	*	732	1290	6.88				
PCB-126	*	*	n	NotFnd	1.12	*	732	1290	7.22				
13C-PCB-126	3.50e+07	1.59	y	42:09	1.35	11000				110	3.89e+06	2.40e+06	
PCB-151	*	*	n	NotFnd	0.85	*	572	492	6.29				
PCB-135	*	*	n	NotFnd	0.82	*	572	492	6.49				
PCB-144	*	*	n	NotFnd	0.93	*	572	492	5.74				
PCB-147	*	*	n	NotFnd	0.92	*	572	492	5.78				
PCB-139	*	*	n	NotFnd	0.98	*	572	492	5.46		Co-elute PCB 149		
PCB-149	*	*	n	NotFnd	0.98	*	572	492	5.46		Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	0.95	*	572	492	5.60				
PCB-143	*	*	n	NotFnd	0.90	*	572	492	5.95		Co-elute PCB 134		
PCB-134	*	*	n	NotFnd	0.90	*	572	492	5.95		Co-elute PCB 143		
PCB-131	*	*	n	NotFnd	0.90	*	572	492	5.90		Co-elute PCB 133		
PCB-133	*	*	n	NotFnd	0.90	*	572	492	5.90		Co-elute PCB 131		
PCB-142	1.29e+07	1.25	y	39:32	0.77	6760	-	-	*				
PCB-165	*	*	n	NotFnd	1.05	*	572	492	5.08		Co-elute PCB 146		
PCB-146	*	*	n	NotFnd	1.05	*	572	492	5.08		Co-elute PCB 165		
PCB-161	*	*	n	NotFnd	1.00	*	572	492	5.36		Co-elute PCB 132		
PCB-132	*	*	n	NotFnd	1.00	*	572	492	5.36		Co-elute PCB 161		
PCB-153	2.12e+05	1.29	y	40:12	1.01	85.3	-	-	*				
PCB-168	*	*	n	NotFnd	1.15	*	572	492	4.62				
PCB-141	*	*	n	NotFnd	0.89	*	572	492	6.01				
PCB-137	*	*	n	NotFnd	0.90	*	572	492	5.92				
PCB-130	*	*	n	NotFnd	0.76	*	572	492	7.03				
PCB-138	*	*	n	NotFnd	1.17	*	572	492	4.55		Co-elute PCB 163/164		
PCB-163	*	*	n	NotFnd	1.17	*	572	492	4.55		Co-elute PCB 138/164		
PCB-164	*	*	n	NotFnd	1.17	*	572	492	4.55		Co-elute PCB 138/163		
PCB-158	*	*	n	NotFnd	1.18	*	572	492	4.52		Co-elute PCB 160		
PCB-160	*	*	n	NotFnd	1.18	*	572	492	4.52		Co-elute PCB 158		
PCB-129	*	*	n	NotFnd	0.77	*	572	492	6.95				
PCB-166	*	*	n	NotFnd	1.08	*	572	492	4.94				
PCB-159	*	*	n	NotFnd	1.19	*	572	492	4.47				
PCB-128	*	*	n	NotFnd	0.98	*	572	492	5.45		Co-elute PCB 162		
PCB-162	*	*	n	NotFnd	0.98	*	572	492	5.45		Co-elute PCB 128		
PCB-167	*	*	n	NotFnd	1.05	*	572	492	4.93				
13C-PCB-167	2.53e+07	1.30	y	43:29	1.12	9560				95.6	2.89e+06	2.22e+06	
PCB-156	*	*	n	NotFnd	1.11	*	572	492	5.09				
13C-PCB-156	2.44e+07	1.35	y	44:44	1.07	9620				96.2	2.68e+06	2.04e+06	
PCB-157	*	*	n	NotFnd	1.14	*	572	492	4.64				
13C-PCB-157	2.48e+07	1.31	y	44:58	1.12	9400				94.0	2.86e+06	2.16e+06	
PCB-169	*	*	n	NotFnd	1.07	*	572	492	4.89				
13C-PCB-169	2.41e+07	1.28	y	46:50	1.08	9460				94.6	2.87e+06	2.23e+06	

FAL ID: 11704-019-0001-SA Filename: 25JUL18Z Sam:12 Acquired: 25-JUL-18 18:06:47 ICal: DAILY209FAL4-7-25-18
Client ID: LDW-Y1-SU-S010-TB ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

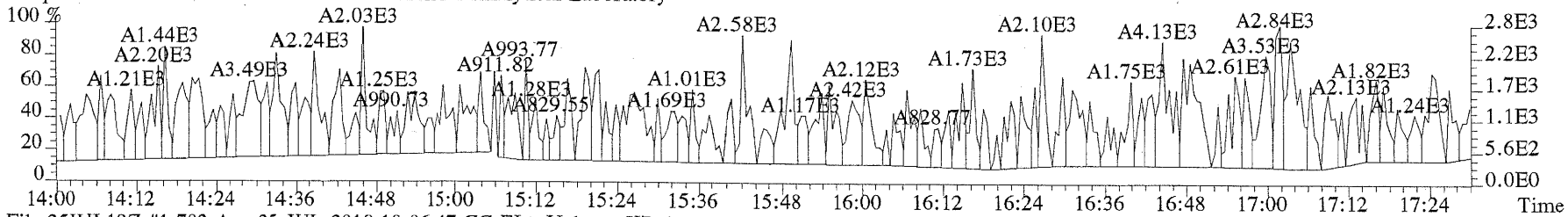
PCB-188	*	*	n	NotFnd	1.21	*	464	288	4.16			
13C-PCB-188	1.77e+07	1.09	y	39:46	0.80	9360				93.6	1.96e+06	1.78e+06
PCB-184	9.91e+06	1.05	y	40:12	1.25	4810	-	-	*			
PCB-179	*	*	n	NotFnd	1.15	*	464	288	4.26			
PCB-176	*	*	n	NotFnd	1.14	*	464	288	4.31			
PCB-186	*	*	n	NotFnd	1.19	*	464	288	4.13			
PCB-178	*	*	n	NotFnd	0.83	*	464	288	5.94			
PCB-175	*	*	n	NotFnd	0.88	*	464	288	5.56			
PCB-187	*	*	n	NotFnd	0.99	*	464	288	4.95	Co-elute PCB 182		
PCB-182	*	*	n	NotFnd	0.99	*	464	288	4.95	Co-elute PCB 187		
PCB-183	*	*	n	NotFnd	0.93	*	464	288	5.27			
PCB-185	*	*	n	NotFnd	0.88	*	464	288	5.55			
PCB-174	*	*	n	NotFnd	0.89	*	464	288	5.51			
PCB-181	*	*	n	NotFnd	0.90	*	464	288	5.43			
PCB-177	*	*	n	NotFnd	0.79	*	464	288	6.20			
PCB-171	*	*	n	NotFnd	0.85	*	464	288	5.75			
PCB-173	*	*	n	NotFnd	0.80	*	464	288	6.12			
PCB-172	2.11e+05	1.20	y	45:28	0.80	161	-	-	*			
PCB-192	6.35e+06	1.08	y	45:41	1.11	3460	-	-	*			
PCB-180	*	*	n	NotFnd	1.09	*	464	288	4.50			
PCB-193	*	*	n	NotFnd	1.16	*	464	288	4.23			
PCB-191	*	*	n	NotFnd	1.08	*	464	288	4.54			
PCB-170	*	*	n	NotFnd	0.77	*	464	288	6.34			
PCB-190	*	*	n	NotFnd	1.09	*	464	288	4.51			
PCB-189	*	*	n	NotFnd	1.17	*	464	288	4.10			
13C-PCB-189	1.53e+07	1.10	y	48:29	0.73	8920				89.2	2.08e+06	1.86e+06
PCB-202	*	*	n	NotFnd	1.03	*	168	292	5.38			
PCB-201	*	*	n	NotFnd	1.02	*	168	292	5.43			
PCB-204	9.56e+06	0.93	y	45:28	1.00	10200	-	-	*			
PCB-197	7.15e+04	0.80	y	45:44	1.08	70.6	-	-	*			
PCB-200	*	*	n	NotFnd	1.01	*	168	292	5.53			
PCB-198	*	*	n	NotFnd	0.74	*	168	292	7.48			
PCB-199	*	*	n	NotFnd	0.84	*	168	292	6.66			
PCB-203	*	*	n	NotFnd	0.87	*	168	292	6.42	Co-elute PCB 196		
PCB-196	*	*	n	NotFnd	0.87	*	168	292	6.42	Co-elute PCB 203		
13C-PCB-202	9.36e+06	0.95	y	44:52	0.44	9060				90.6	9.98e+05	1.07e+06
13C-PCB-178	1.26e+07	1.10	y	42:24	0.60	8830				88.3	1.43e+06	1.30e+06
13C-PCB-138	2.36e+07	1.29	y	41:38	-	48.7						
PCB-195	*	*	n	NotFnd	0.71	*	400	1140	6.46			
PCB-194	*	*	n	NotFnd	0.79	*	400	1140	5.76			
PCB-205	*	*	n	NotFnd	1.07	*	400	1140	4.26			
13C-PCB-205	3.11e+07	0.91	y	50:09	1.23	8780				87.8	4.08e+06	4.38e+06
PCB-208	*	*	n	NotFnd	1.01	*	384	380	2.54			
13C-PCB-208	2.43e+07	0.82	y	49:11	0.97	8700				87.0	3.34e+06	4.10e+06
PCB-207	7.71e+04	1.42	y	49:29	0.98	35.4	-	-	*			
PCB-206	*	*	n	NotFnd	1.00	*	384	380	3.42			
13C-PCB-206	2.04e+07	0.80	y	51:19	0.88	8090				80.9	2.48e+06	3.10e+06
PCB-209	1.00e+05	1.16	y	52:31	1.12	44.7	-	-	*			
13C-PCB-209	2.00e+07	1.22	y	52:30	0.97	7210				72.1	2.98e+06	2.47e+06
13C-PCB-194	2.88e+07	0.92	y	49:53	-	53.0						

Analyst: _____ Date: 8/20/18

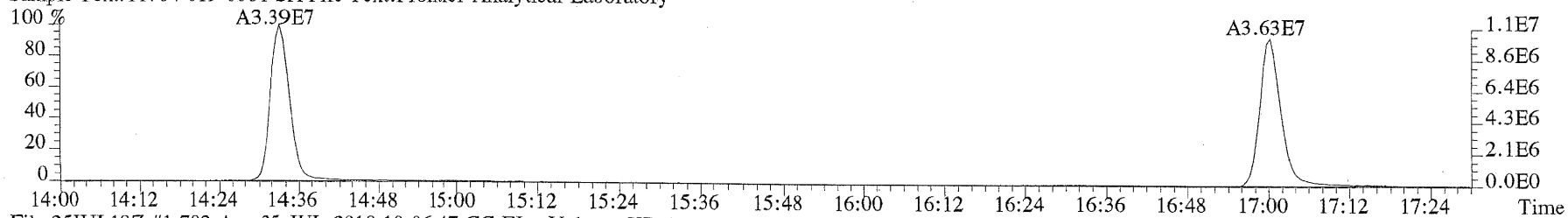
File:25JUL18Z #1-783 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



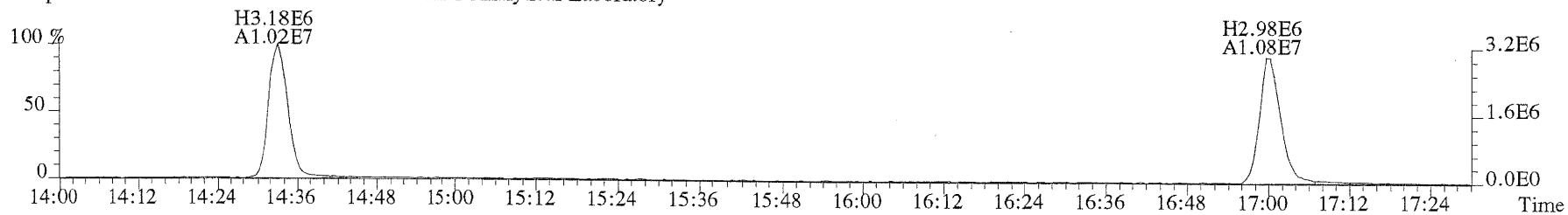
File:25JUL18Z #1-783 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



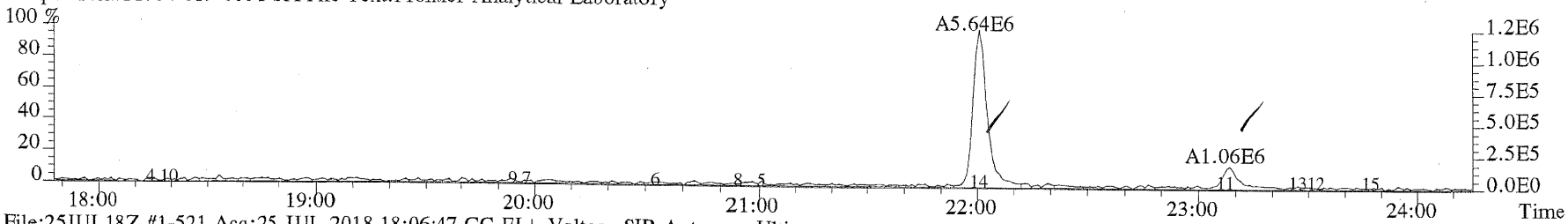
File:25JUL18Z #1-783 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



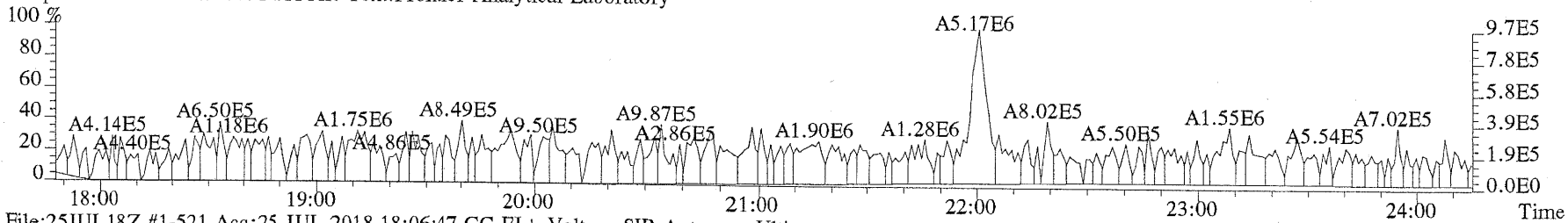
File:25JUL18Z #1-783 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



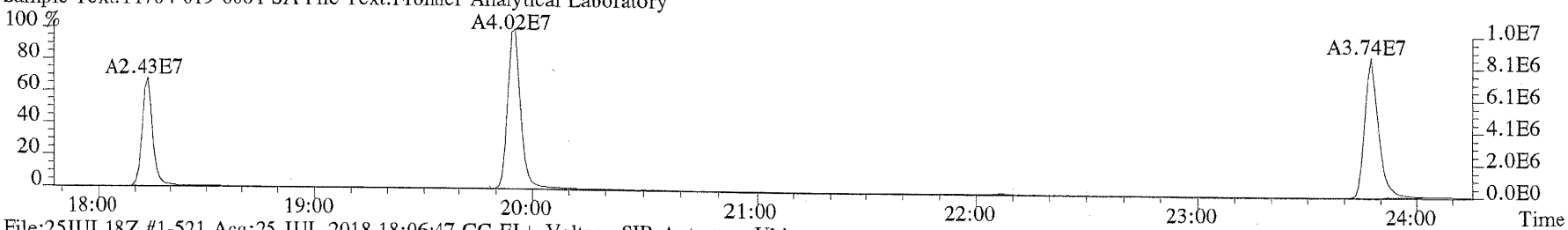
File:25JUL18Z #1-521 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



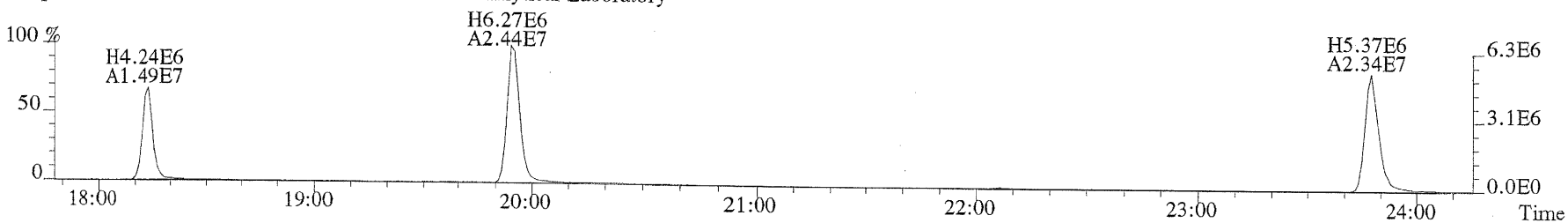
File:25JUL18Z #1-521 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



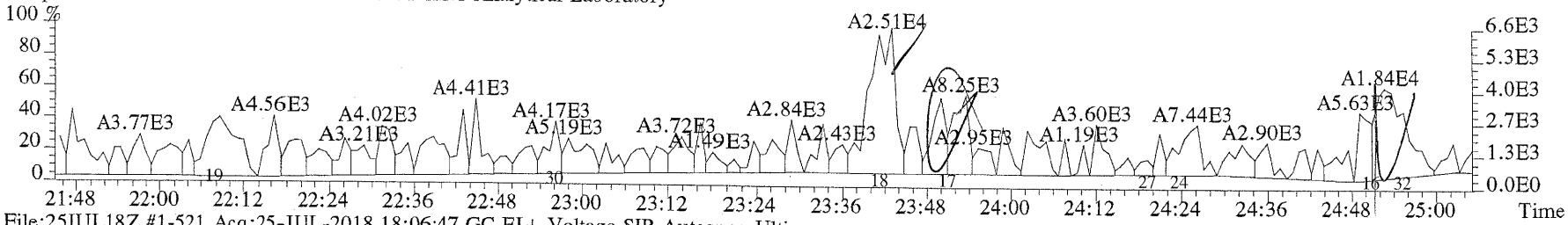
File:25JUL18Z #1-521 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



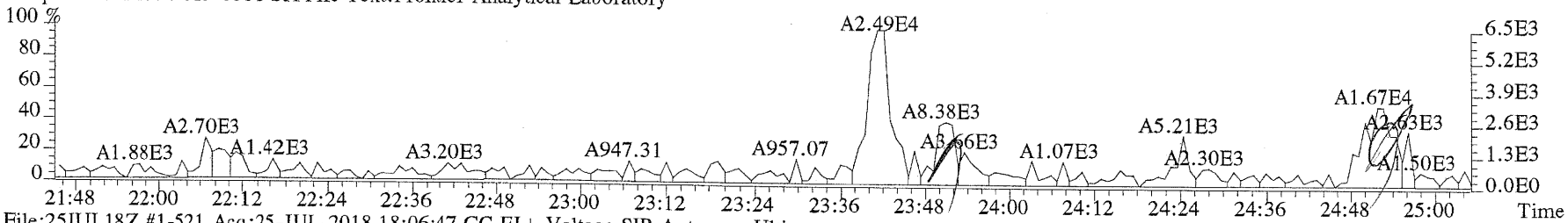
File:25JUL18Z #1-521 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



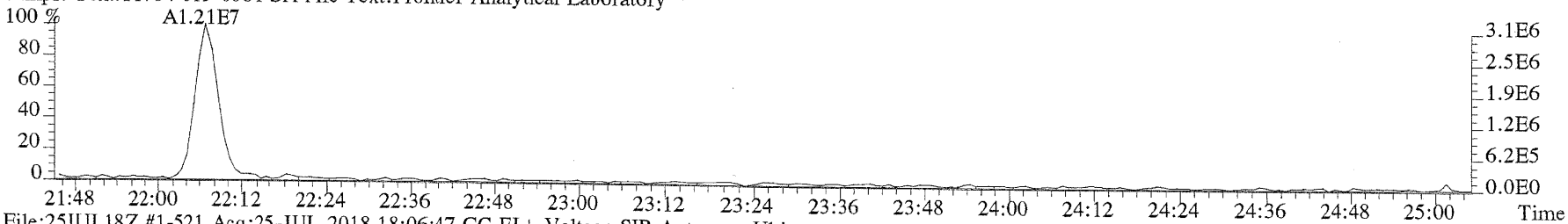
File:25JUL18Z #1-521 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



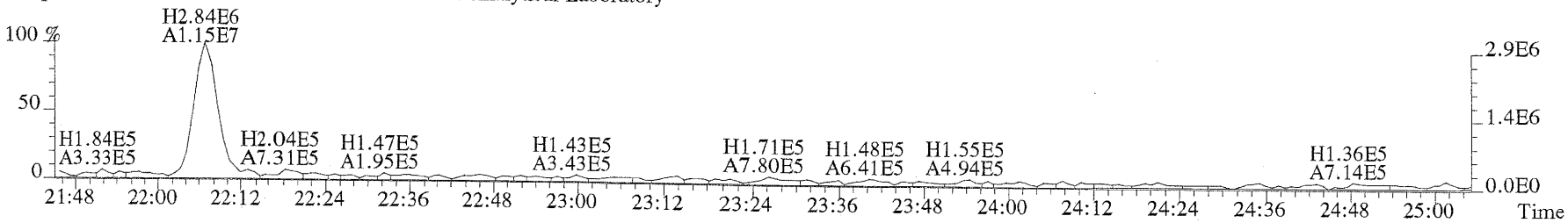
File:25JUL18Z #1-521 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



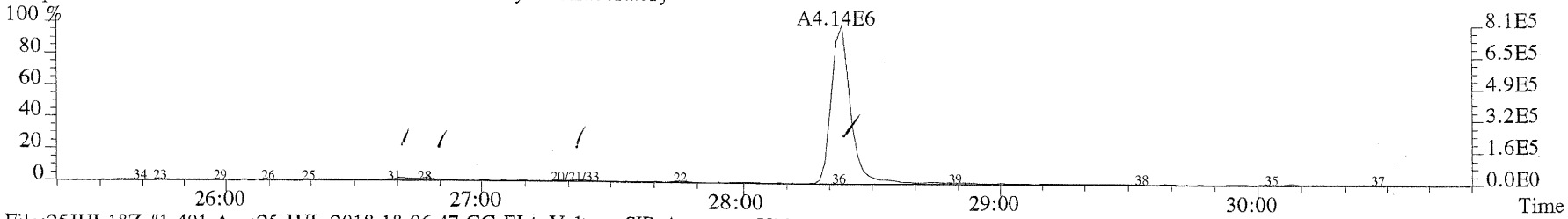
File:25JUL18Z #1-521 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



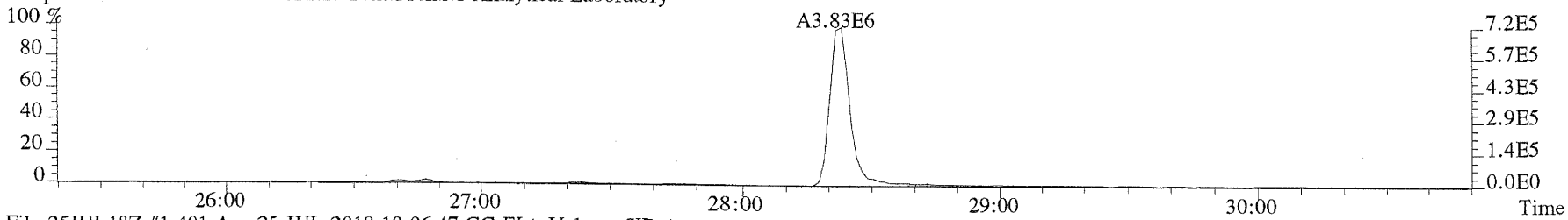
File:25JUL18Z #1-521 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



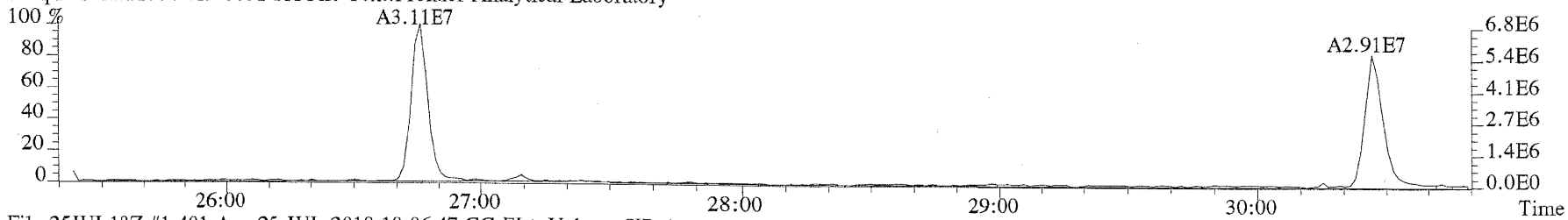
File:25JUL18Z #1-401 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



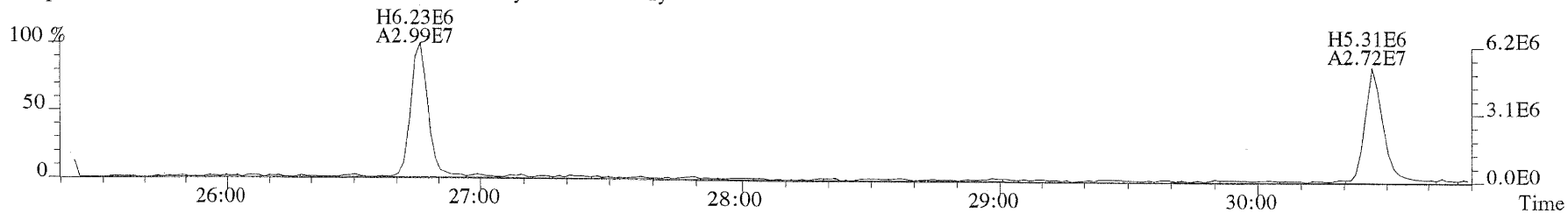
File:25JUL18Z #1-401 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



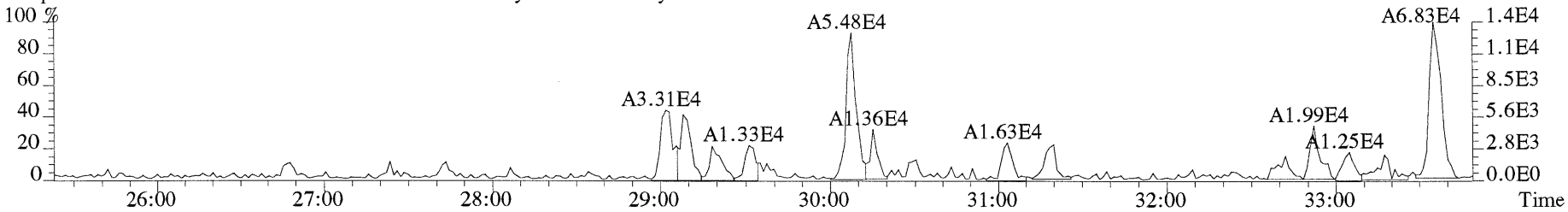
File:25JUL18Z #1-401 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



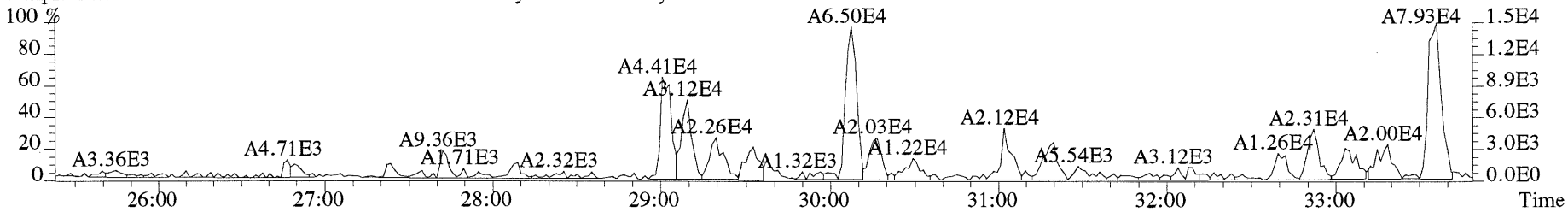
File:25JUL18Z #1-401 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



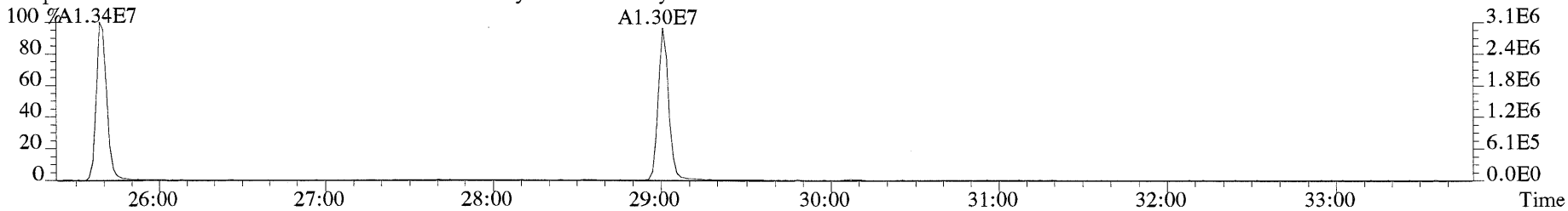
File:25JUL18Z #1-401 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



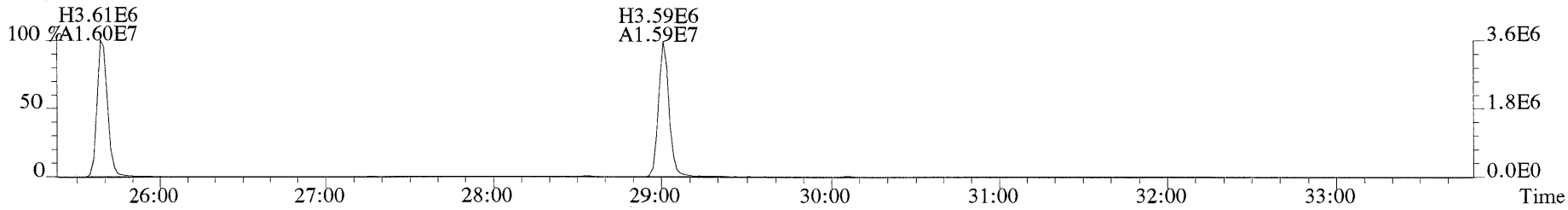
File:25JUL18Z #1-401 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



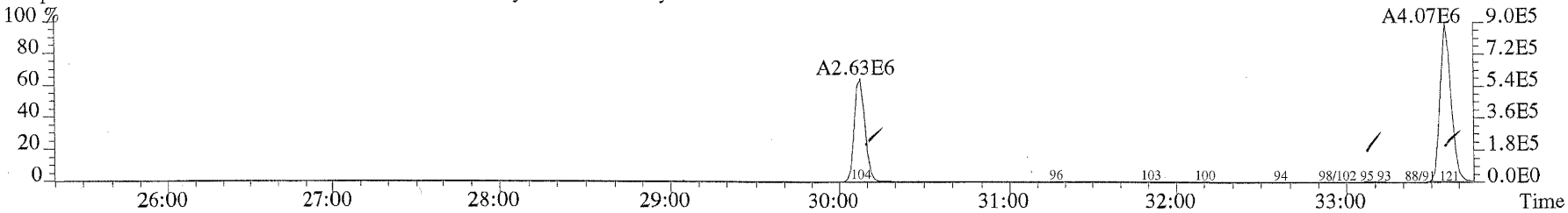
File:25JUL18Z #1-401 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



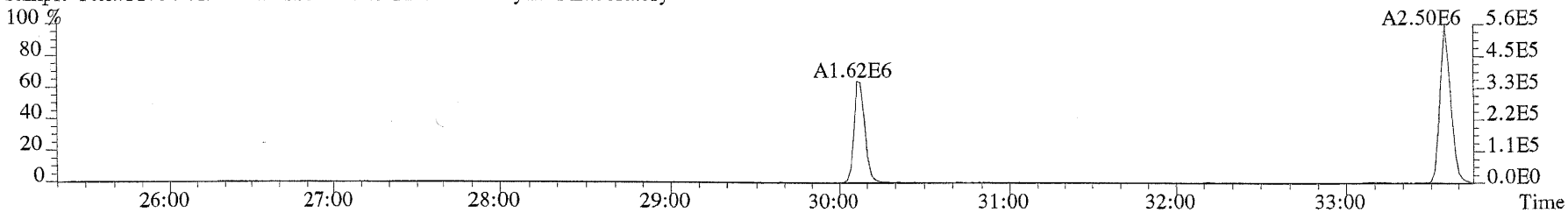
File:25JUL18Z #1-401 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



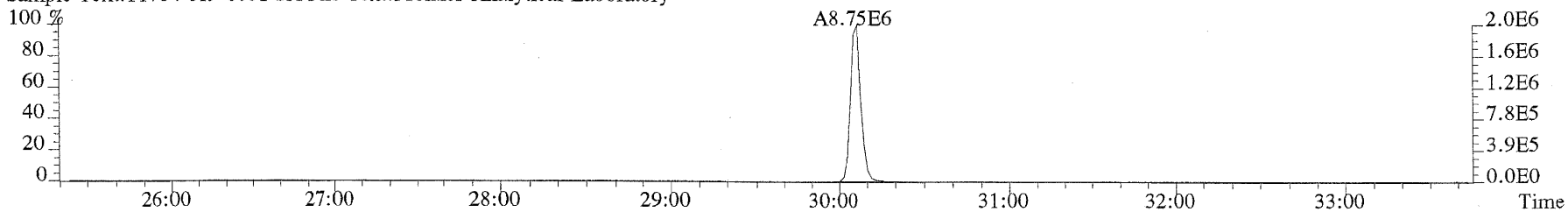
File:25JUL18Z #1-401 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



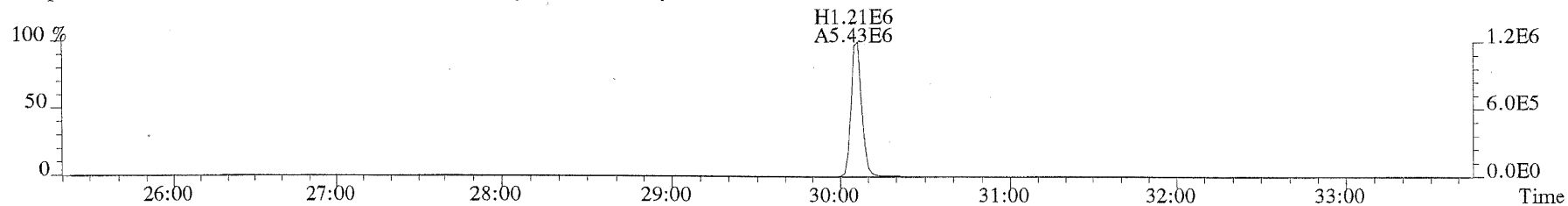
File:25JUL18Z #1-401 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



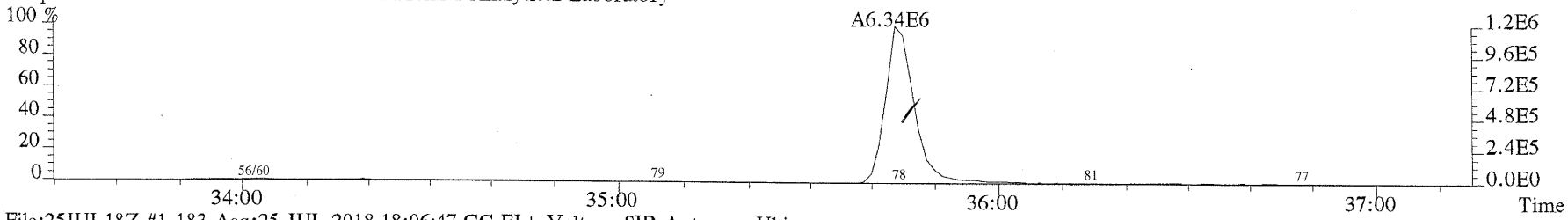
File:25JUL18Z #1-401 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



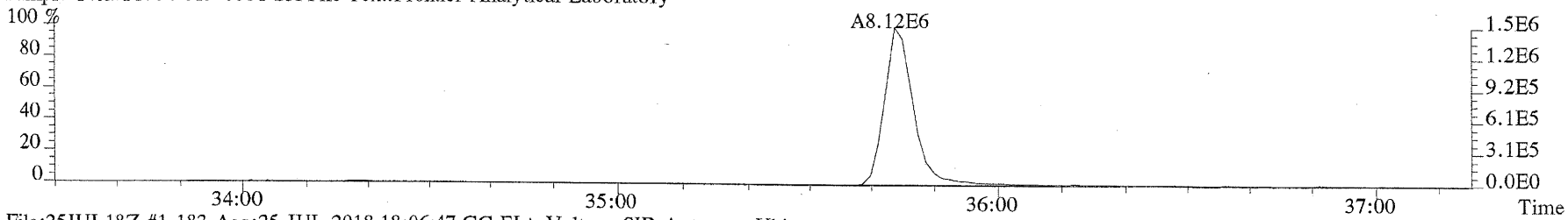
File:25JUL18Z #1-401 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



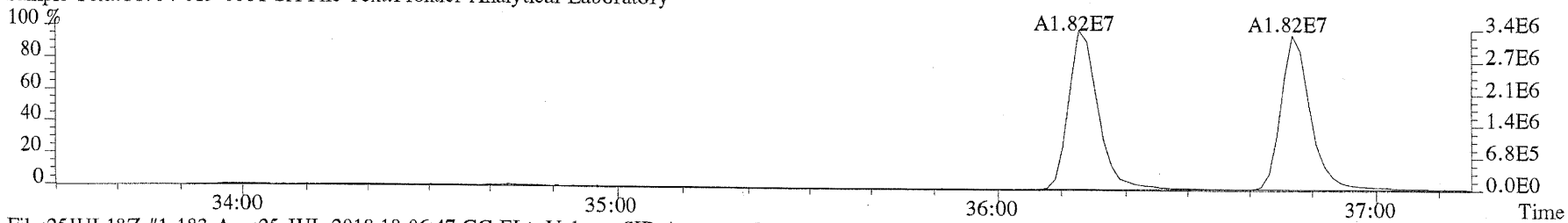
File:25JUL18Z #1-183 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



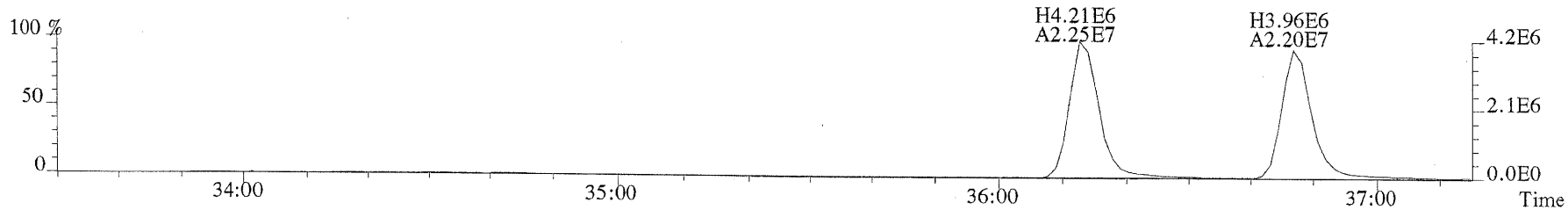
File:25JUL18Z #1-183 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



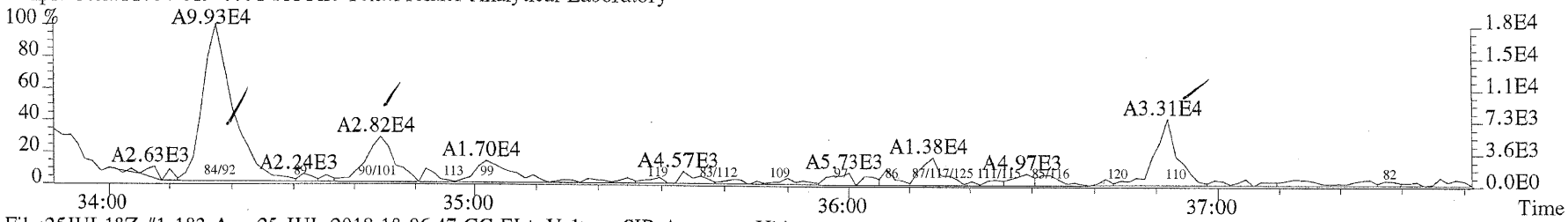
File:25JUL18Z #1-183 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



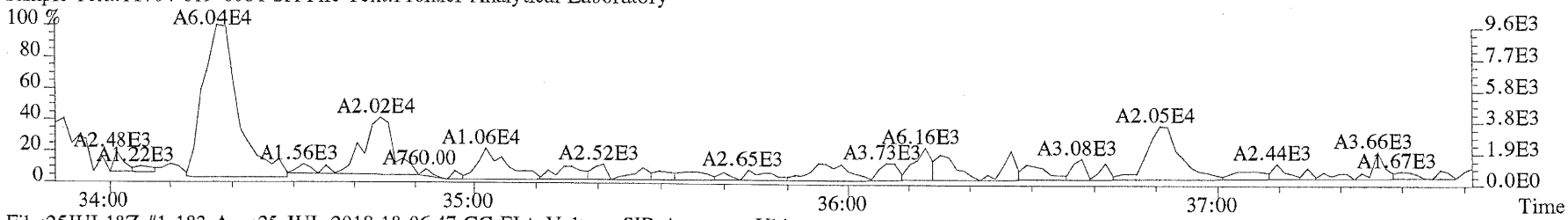
File:25JUL18Z #1-183 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



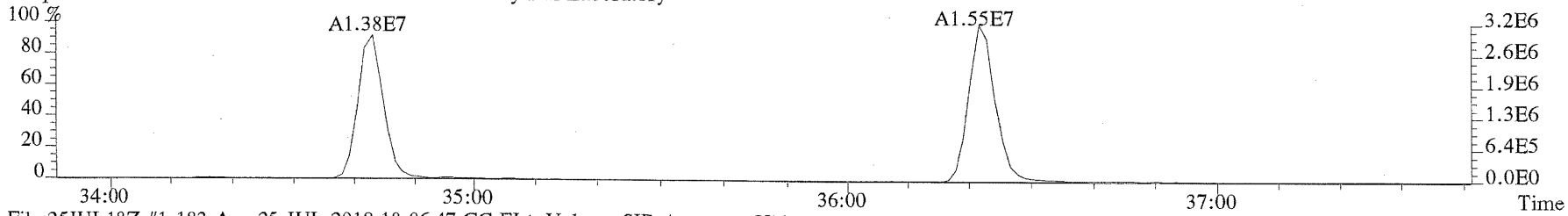
File:25JUL18Z #1-183 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



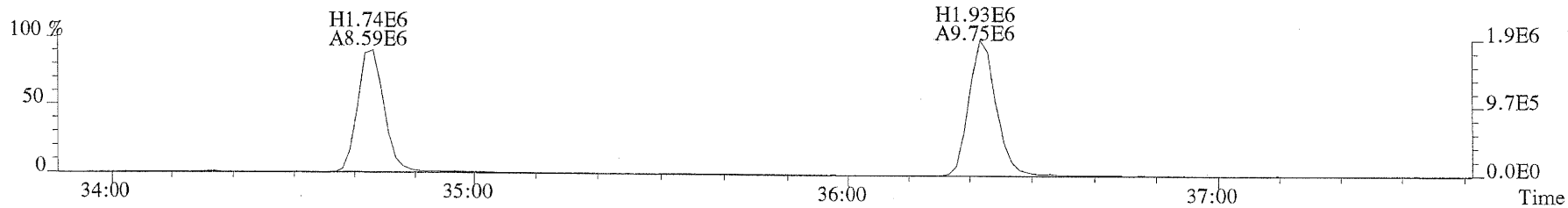
File:25JUL18Z #1-183 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



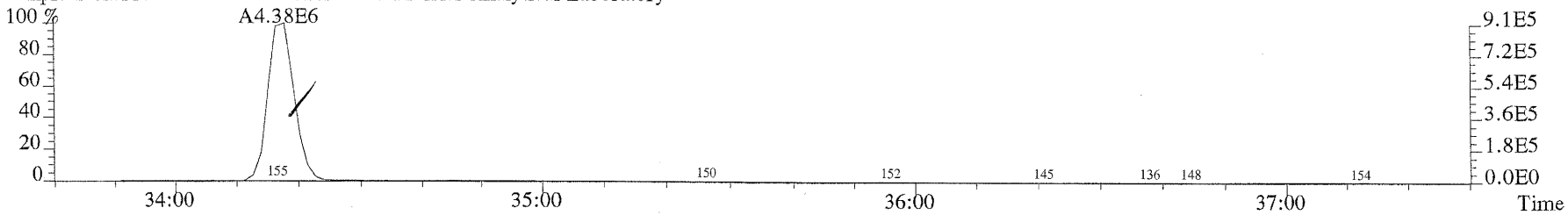
File:25JUL18Z #1-183 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



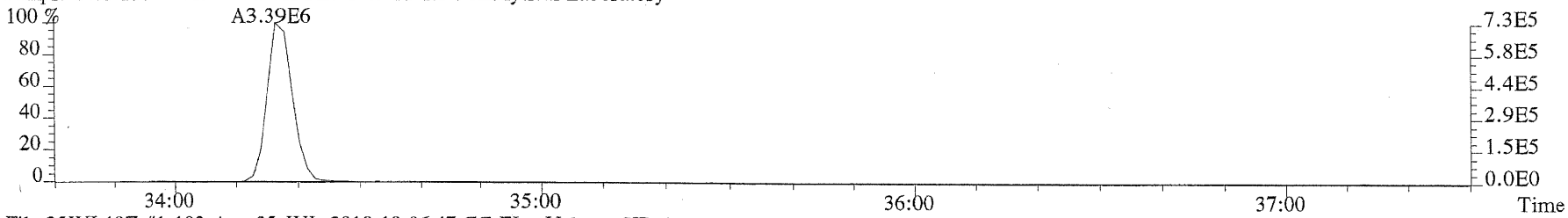
File:25JUL18Z #1-183 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



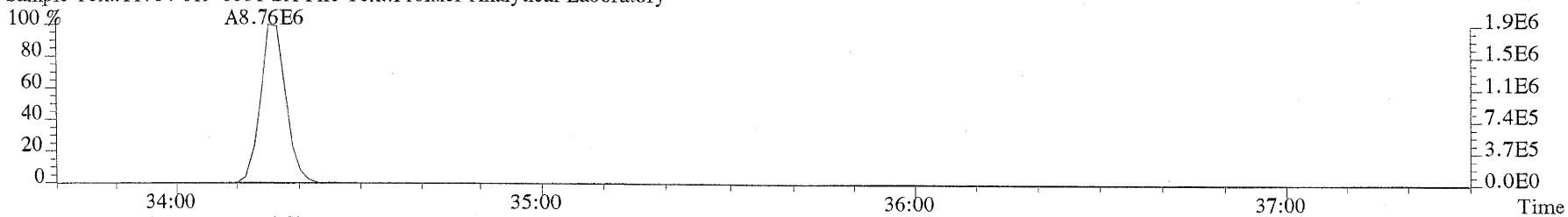
File:25JUL18Z #1-183 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



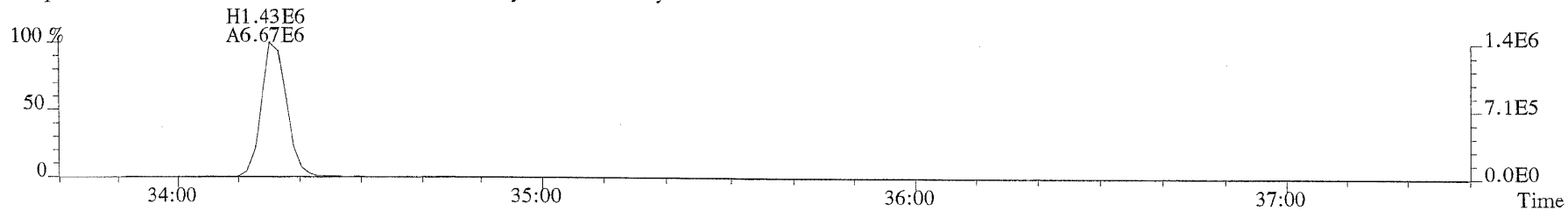
File:25JUL18Z #1-183 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



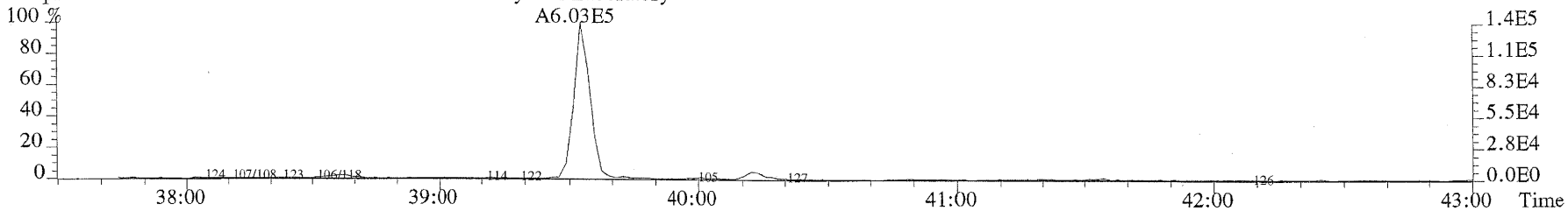
File:25JUL18Z #1-183 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



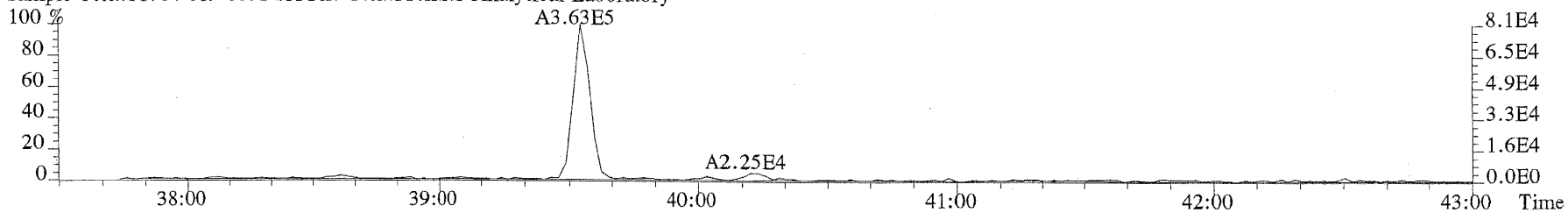
File:25JUL18Z #1-183 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



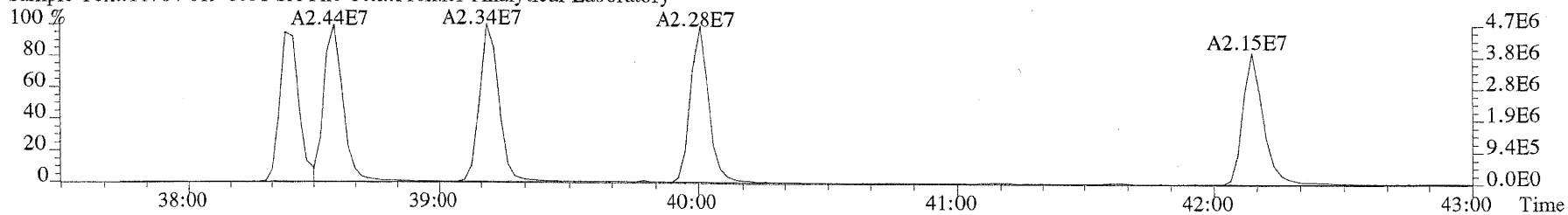
File:25JUL18Z #1-403 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



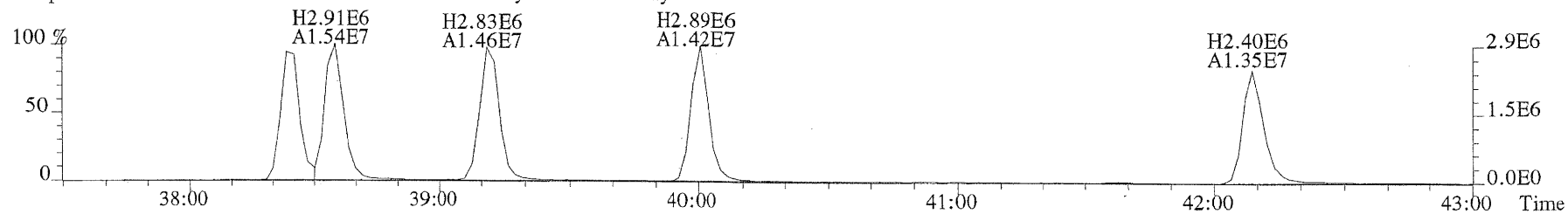
File:25JUL18Z #1-403 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



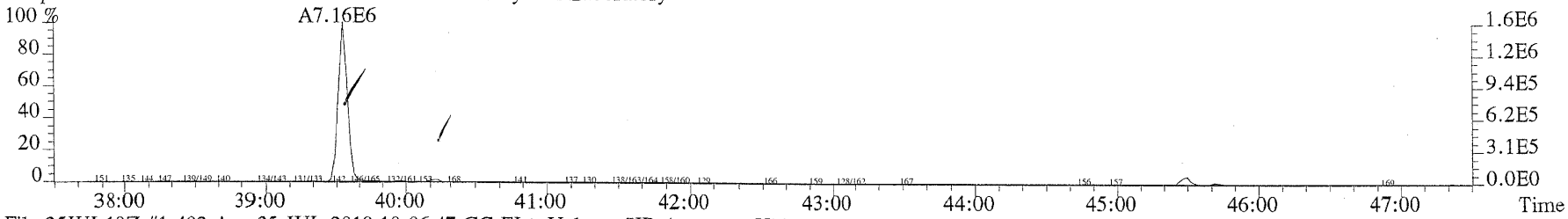
File:25JUL18Z #1-403 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



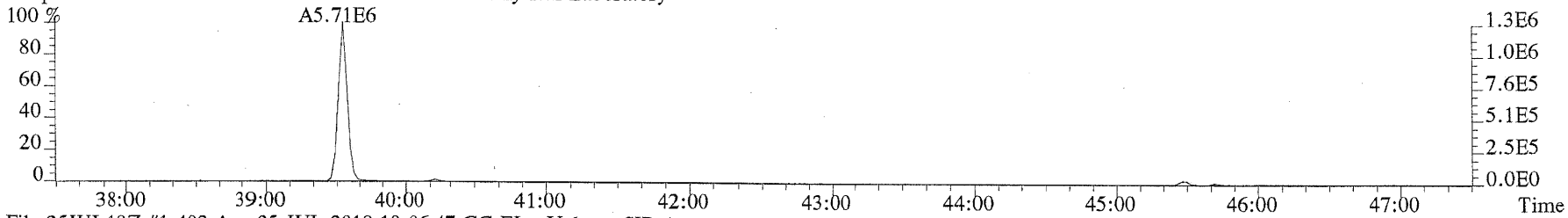
File:25JUL18Z #1-403 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



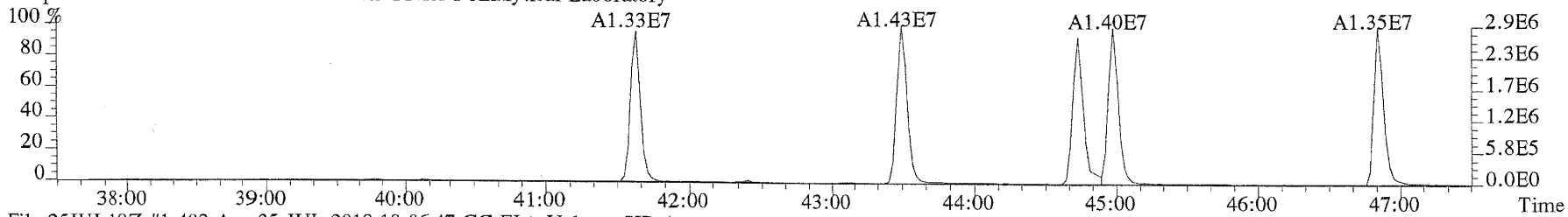
File:25JUL18Z #1-403 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



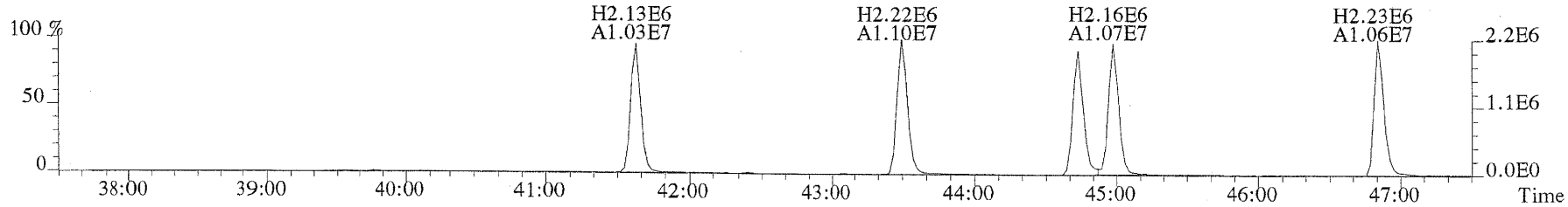
File:25JUL18Z #1-403 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



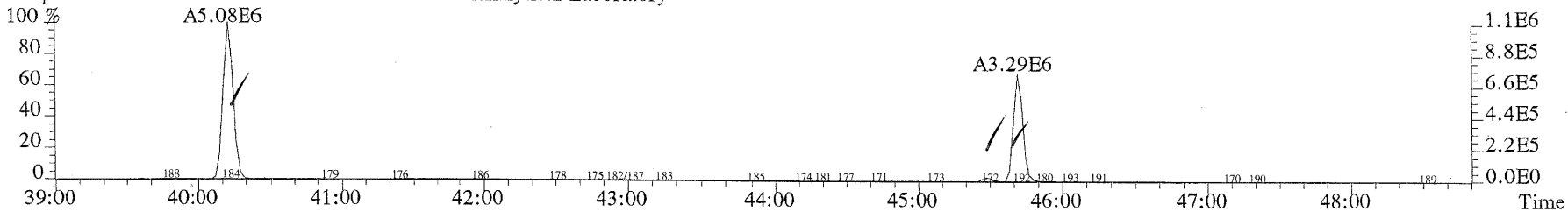
File:25JUL18Z #1-403 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



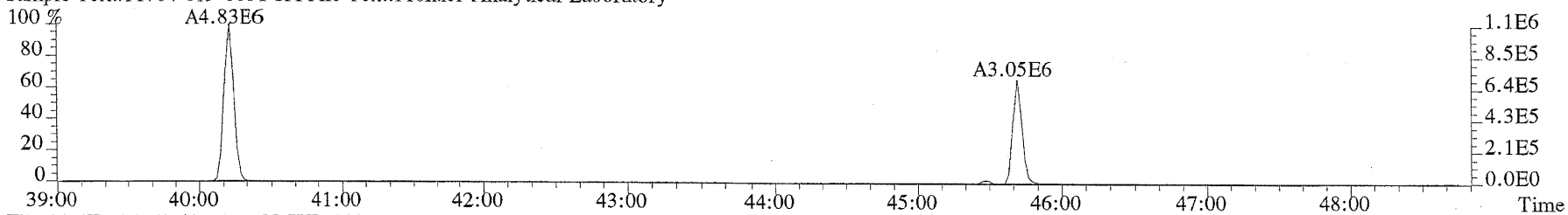
File:25JUL18Z #1-403 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



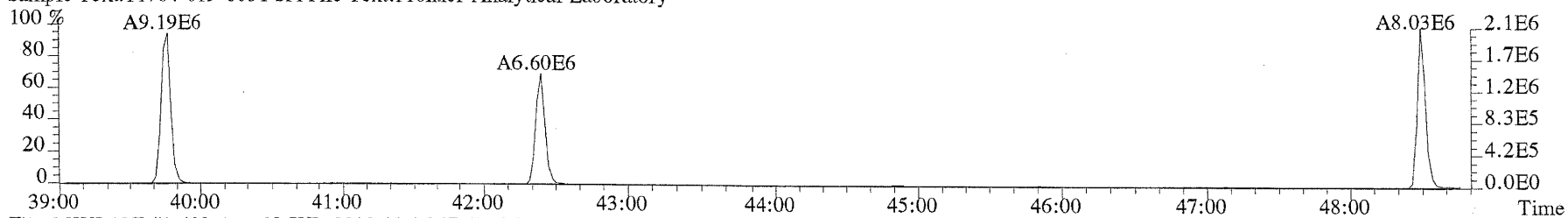
File:25JUL18Z #1-403 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



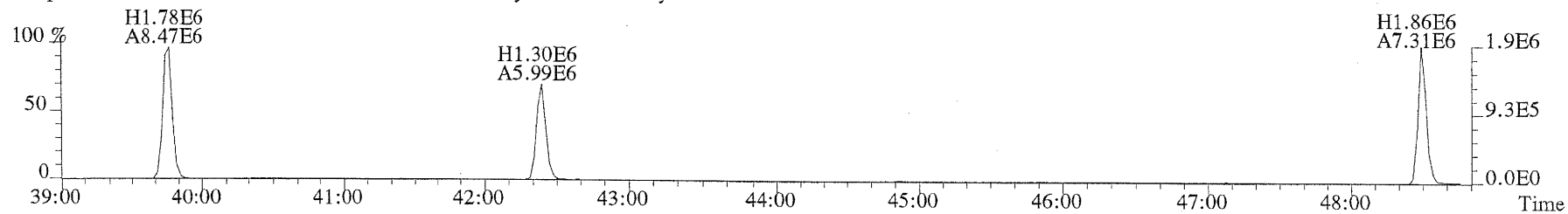
File:25JUL18Z #1-403 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



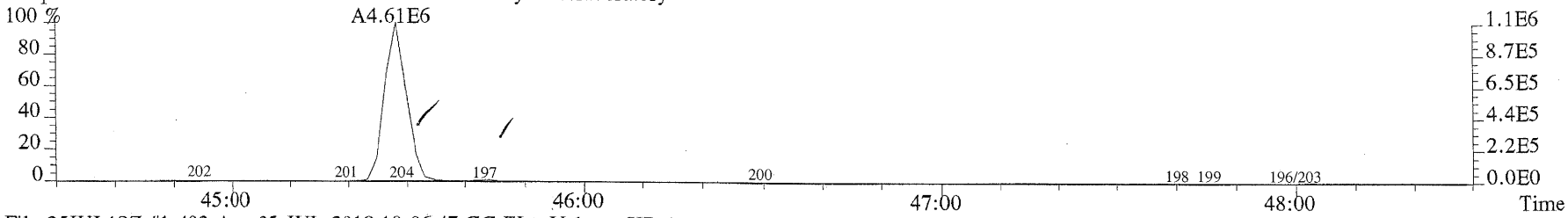
File:25JUL18Z #1-403 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



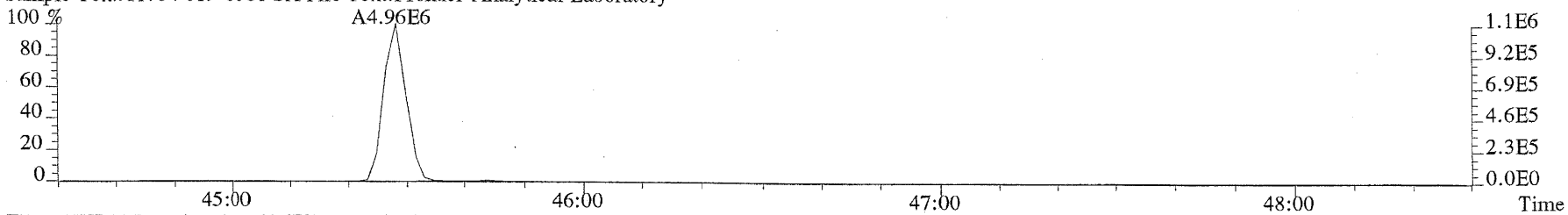
File:25JUL18Z #1-403 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



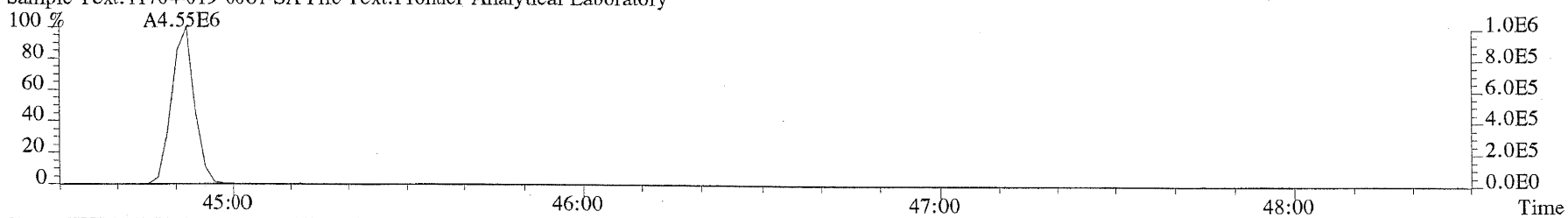
File:25JUL18Z #1-403 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



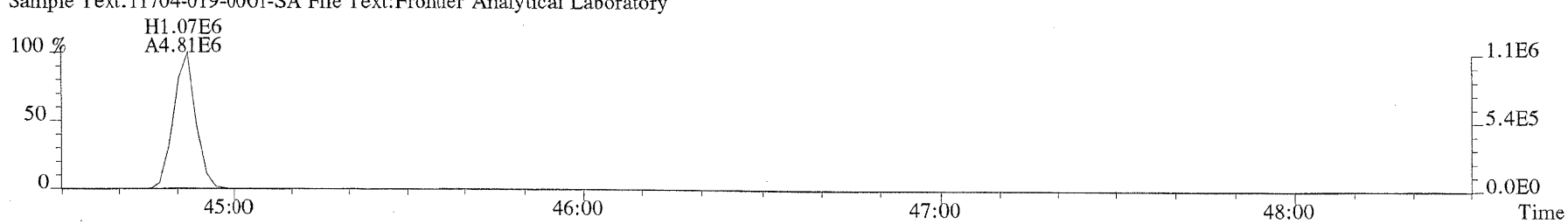
File:25JUL18Z #1-403 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



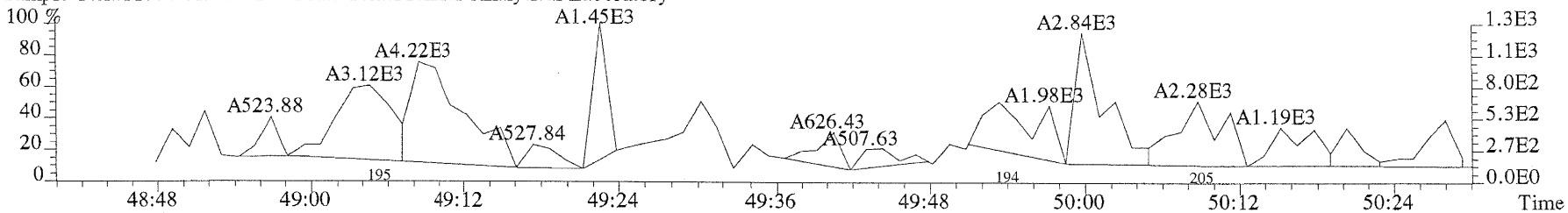
File:25JUL18Z #1-403 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



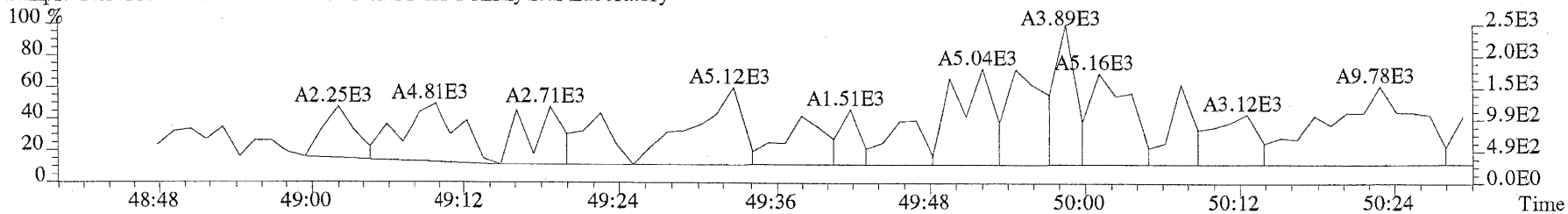
File:25JUL18Z #1-403 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



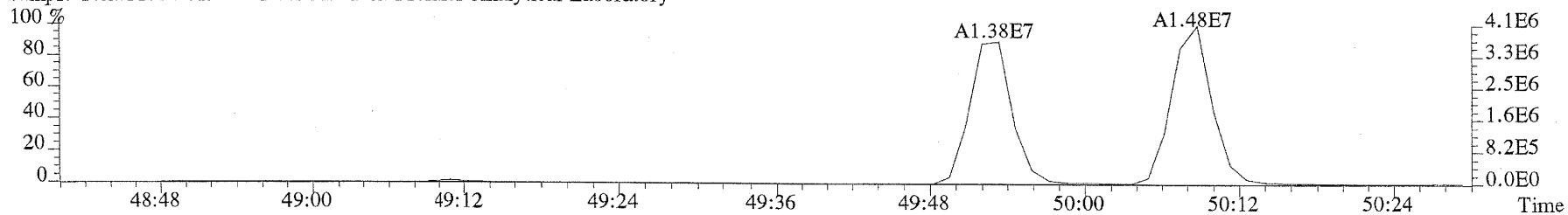
File:25JUL18Z #1-315 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



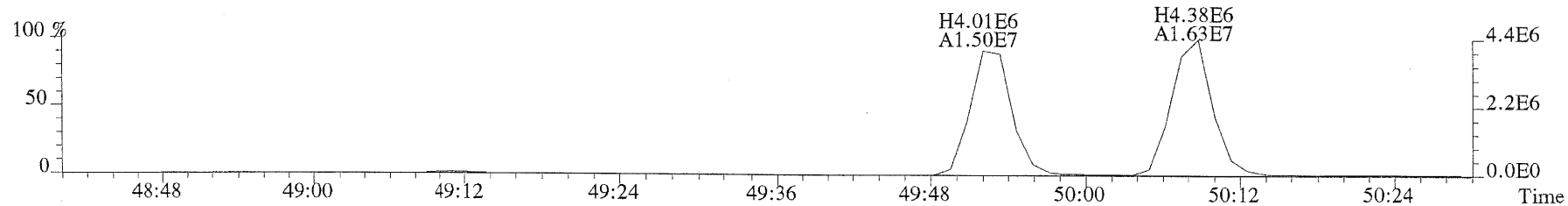
File:25JUL18Z #1-315 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



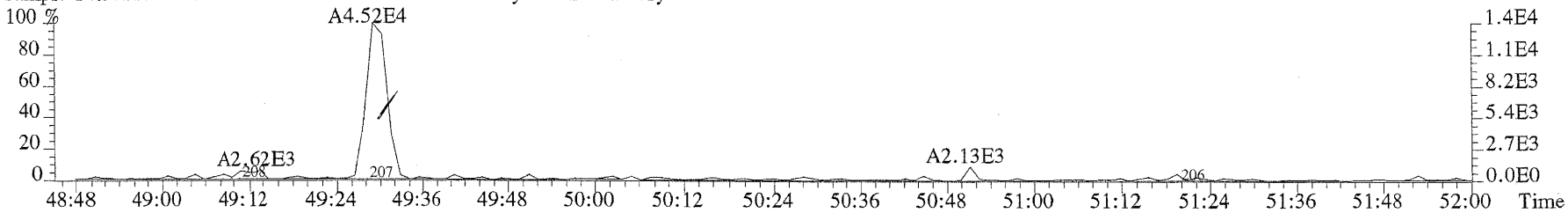
File:25JUL18Z #1-315 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



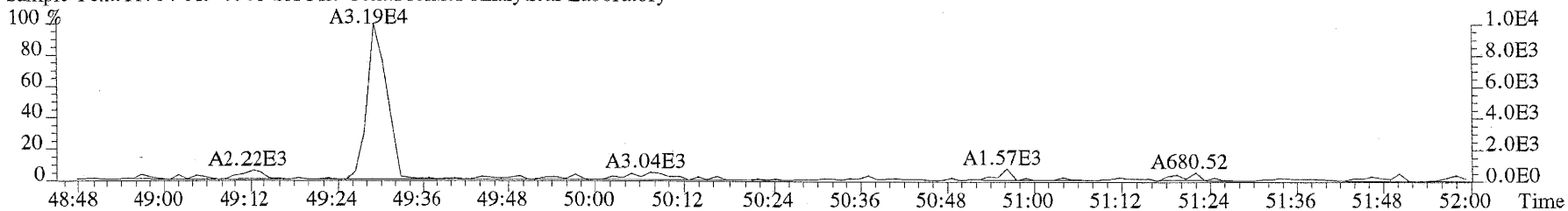
File:25JUL18Z #1-315 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



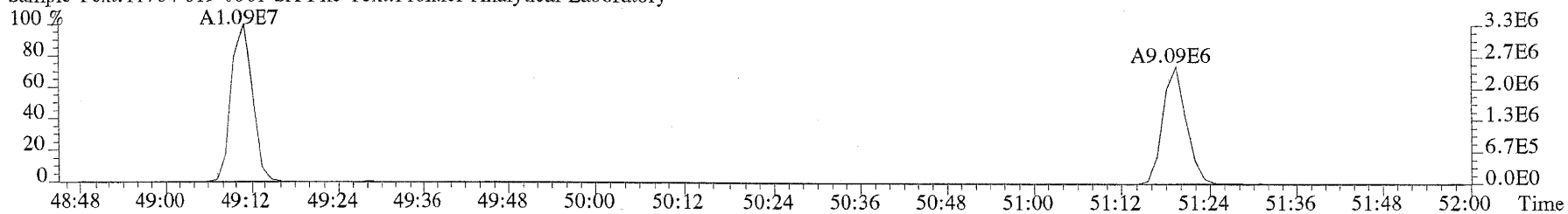
File:25JUL18Z #1-315 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



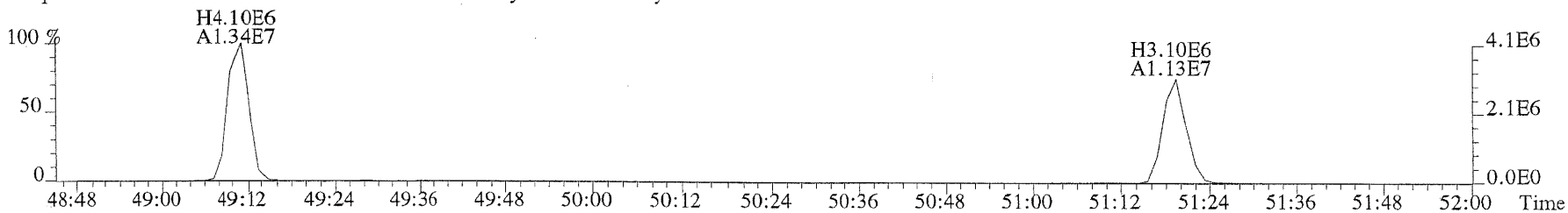
File:25JUL18Z #1-315 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



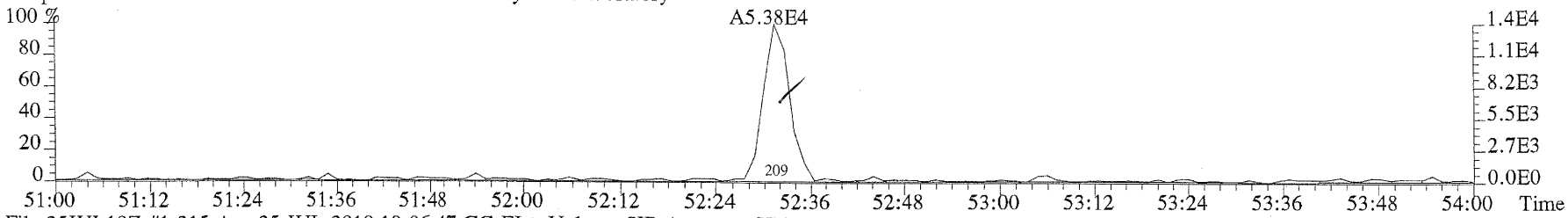
File:25JUL18Z #1-315 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



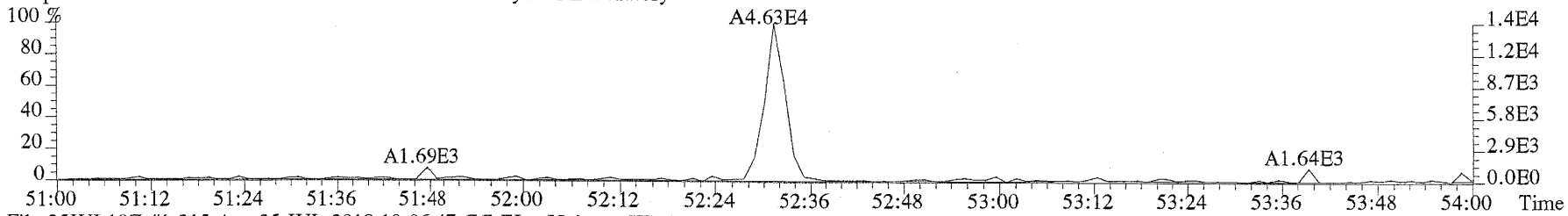
File:25JUL18Z #1-315 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



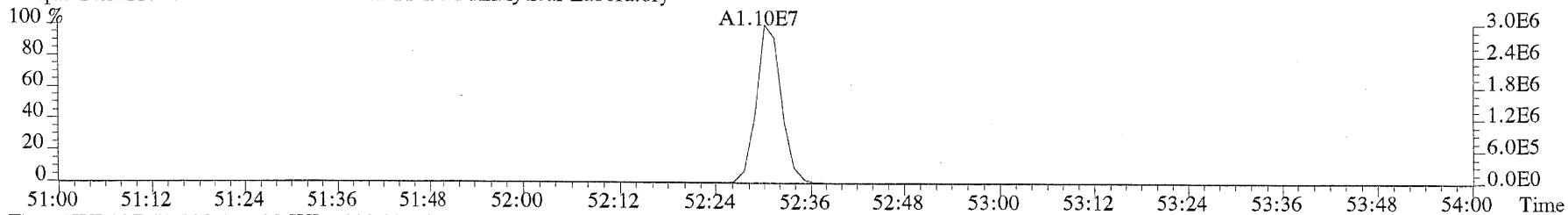
File:25JUL18Z #1-315 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



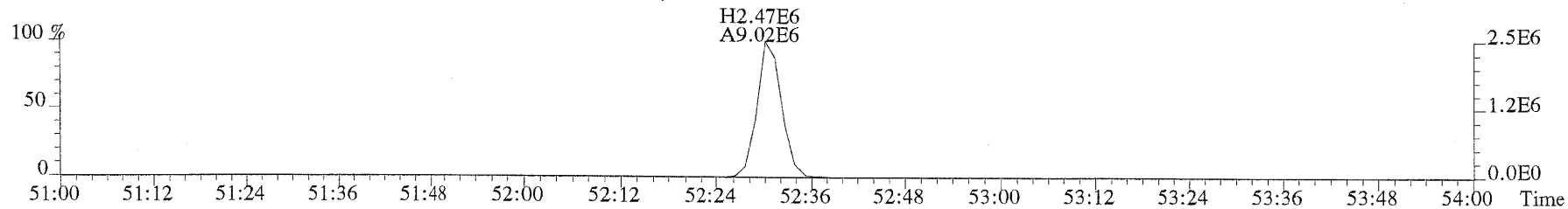
File:25JUL18Z #1-315 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-315 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-315 Acq:25-JUL-2018 18:06:47 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-019-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11704-020-0001-SA Filename: 25JUL18Z Sam:13 Acquired: 25-JUL-18 19:05:32 ICal: DAILY209FAL4-7-25-18
Client ID: LDW-Y1-IN-S010-TB ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	*	n	NotFnd	1.19	*		1930	1540	3.77			
13C-PCB-1	6.32e+07	3.27	y	14:33	0.80	8820					88.2	1.48e+07	4.55e+06
PCB-2	*	*	n	NotFnd	1.10	*		1930	1540	4.13			
PCB-3	*	*	n	NotFnd	1.17	*		1930	1540	3.94			
13C-PCB-3	6.68e+07	3.33	y	17:00	0.85	8850					88.5	1.44e+07	4.36e+06
PCB-4	*	*	n	NotFnd	1.26	*		1430	2270	4.70			
PCB-10	*	*	n	NotFnd	1.15	*		1430	2270	4.61			
13C-PCB-4	5.57e+07	1.59	y	18:14	0.63	9850					98.5	9.75e+06	5.97e+06
PCB-9	*	*	n	NotFnd	1.28	*		1430	2270	4.13			
PCB-7	*	*	n	NotFnd	1.30	*		1430	2270	4.06			
PCB-6	*	*	n	NotFnd	1.28	*		1430	2270	4.14			
PCB-8	*	*	n	NotFnd	1.28	*		1430	2270	4.12			
PCB-5	*	*	n	NotFnd	1.29	*		1430	2270	4.09			
PCB-14	1.23e+07	1.51	y	22:01	1.23	1410		-	-	*			
PCB-11	2.38e+06	1.42	y	23:08	1.20	279		-	-	*			
PCB-13	*	*	n	NotFnd	1.24	*		1430	2270	4.27			
PCB-12	*	*	n	NotFnd	1.25	*		1430	2270	4.22			
PCB-15	*	*	n	NotFnd	1.12	*		1430	2270	4.35			
13C-PCB-15	8.62e+07	1.61	y	23:46	0.95	10200					102	1.18e+07	7.21e+06
PCB-19	*	*	n	NotFnd	1.26	*		1610	588	5.40			
PCB-30	*	*	n	NotFnd	1.70	*		1610	588	4.01			
PCB-18	6.42e+04	1.15	y	23:41	1.21	16.8	J	-	-	*			
PCB-17	*	*	n	NotFnd	1.29	*		1610	588	5.26			
PCB-27	*	*	n	NotFnd	1.64	*		1610	588	4.16			
PCB-24	*	*	n	NotFnd	1.68	*		1610	588	4.06			
PCB-16	*	*	n	NotFnd	1.42	*		1610	588	4.79			
PCB-32	*	*	n	NotFnd	1.44	*		1610	588	4.73			
13C-PCB-19	3.16e+07	1.02	y	22:07	0.40	8900					89.0	4.20e+06	3.88e+06
13C-PCB-9	8.91e+07	1.64	y	19:54	-	77.6							
PCB-34	*	*	n	NotFnd	1.09	*		2330	1010	5.39			
PCB-23	*	*	n	NotFnd	1.17	*		2330	1010	4.99			
PCB-29	*	*	n	NotFnd	1.18	*		2330	1010	4.99			
PCB-26	*	*	n	NotFnd	1.12	*		2330	1010	5.25			
PCB-25	*	*	n	NotFnd	1.38	*		2330	1010	4.25			
PCB-31	1.32e+05	1.06	y	26:39	1.10	16.1	J	-	-	*			
PCB-28	1.54e+05	0.91	y	26:47	1.34	15.5	J	-	-	*			
PCB-20	1.07e+05	1.13	y	27:22	1.19	12.1	J	-	-	*		Co-elute PCB 21/33	
PCB-21	1.07e+05	1.13	y	27:22	1.19	12.1	J	-	-	*		Co-elute PCB 20/33	
PCB-33	1.07e+05	1.13	y	27:22	1.19	12.1	J	-	-	*		Co-elute PCB 20/21	
PCB-22	*	*	n	NotFnd	1.17	*		2330	1010	5.03			
PCB-36	1.09e+07	1.05	y	28:22	1.09	1340		-	-	*			
PCB-39	*	*	n	NotFnd	1.13	*		2330	1010	5.18			
PCB-38	*	*	n	NotFnd	1.17	*		2330	1010	5.03			
PCB-35	*	*	n	NotFnd	1.04	*		2330	1010	5.64			
PCB-37	*	*	n	NotFnd	1.23	*		2330	1010	4.77			
13C-PCB-37	7.43e+07	1.08	y	30:26	1.68	11500					115	7.44e+06	6.81e+06

PCB-54	*	*	n	NotFnd	1.19	*		424	708	2.27			
PCB-50	2.56e+04	0.79	y	26:47	0.90	6.80	J	-	-	*			
PCB-53	*	*	n	NotFnd	0.91	*		424	708	2.98			
PCB-51	2.67e+04	0.87	y	27:43	0.93	6.85	J	-	-	*			
PCB-45	*	*	n	NotFnd	0.78	*		424	708	3.46			
PCB-46	*	*	n	NotFnd	0.77	*		424	708	3.54			
PCB-52	1.05e+05	0.88	y	29:02	1.08	23.2		-	-	*	Co-elute PCB 69		
PCB-69	1.05e+05	0.88	y	29:02	1.08	23.2		-	-	*	Co-elute PCB 52		
PCB-73	7.48e+04	0.72	y	29:09	1.19	15.0	J	-	-	*			
PCB-43	4.78e+04	0.76	y	29:17	0.88	13.0	J	-	-	*	Co-elute PCB 49		
PCB-49	4.78e+04	0.76	y	29:17	0.88	13.0	J	-	-	*	Co-elute PCB 43		
PCB-47	4.23e+04	0.73	y	29:31	1.15	8.73	J	-	-	*			
PCB-48	*	*	n	NotFnd	1.06	*		424	708	2.55	Co-elute PCB 75		
PCB-75	*	*	n	NotFnd	1.06	*		424	708	2.55	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.09	*		424	708	2.48			
PCB-62	*	*	n	NotFnd	1.15	*		424	708	2.36			
PCB-44	5.15e+04	0.73	y	30:17	0.82	15.0	J	-	-	*			
PCB-42	*	*	n	NotFnd	1.06	*		424	708	2.55	Co-elute PCB 59		
PCB-59	*	*	n	NotFnd	1.06	*		424	708	2.55	Co-elute PCB 42		
PCB-72	4.99e+04	0.68	y	31:01	1.15	10.3	J	-	-	*	Co-elute PCB 41/71/64		
PCB-41	4.99e+04	0.68	y	31:01	1.15	10.3	J	-	-	*	Co-elute PCB 72/71/64		
PCB-71	4.99e+04	0.68	y	31:01	1.15	10.3	J	-	-	*	Co-elute PCB 72/41/64		
PCB-64	4.99e+04	0.68	y	31:01	1.15	10.3	J	-	-	*	Co-elute PCB 72/41/71		
PCB-68	4.26e+04	0.84	y	31:16	1.25	8.09	J	-	-	*			
PCB-40	*	*	n	NotFnd	0.71	*		424	708	3.85			
PCB-57	*	*	n	NotFnd	1.13	*		424	708	2.39			
PCB-67	*	*	n	NotFnd	1.12	*		424	708	2.43			
PCB-58	*	*	n	NotFnd	1.18	*		424	708	2.30			
PCB-63	*	*	n	NotFnd	1.14	*		424	708	2.39			
PCB-74	2.98e+04	0.71	y	32:38	1.21	5.85	J	-	-	*			
PCB-61	6.22e+04	0.67	y	32:51	1.23	12.0	J	-	-	*	Co-elute PCB 70		
PCB-70	6.22e+04	0.67	y	32:51	1.23	12.0	J	-	-	*	Co-elute PCB 61		
PCB-76	3.94e+04	0.79	y	33:04	1.21	7.77	J	-	-	*	Co-elute PCB 66		
PCB-66	3.94e+04	0.79	y	33:04	1.21	7.77	J	-	-	*	Co-elute PCB 76		
PCB-80	4.81e+04	0.85	y	33:18	1.30	8.80	J	-	-	*			
PCB-55	2.15e+05	0.72	y	33:35	1.20	42.7		-	-	*			
13C-PCB-54	4.20e+07	0.82	y	25:39	1.11	9840					98.4	4.70e+06	5.73e+06
PCB-104	5.61e+06	1.62	y	30:07	1.35	2090		-	-	*			
PCB-96	*	*	n	NotFnd	1.22	*		316	356	3.19			
PCB-103	*	*	n	NotFnd	1.05	*		316	356	3.73			
PCB-100	*	*	n	NotFnd	1.07	*		316	356	3.64			
PCB-94	*	*	n	NotFnd	0.90	*		316	356	4.34			
PCB-98	*	*	n	NotFnd	0.54	*		316	356	7.22	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.54	*		316	356	7.22	Co-elute PCB 98		
PCB-95	2.99e+04	1.43	y	33:06	1.08	13.9	J	-	-	*			
PCB-93	5.04e+04	1.59	y	33:10	0.98	25.8		-	-	*			
PCB-88	*	*	n	NotFnd	1.06	*		316	356	3.70	Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	1.06	*		316	356	3.70	Co-elute PCB 88		
PCB-121	9.22e+06	1.60	y	33:34	1.10	4230		-	-	*			
13C-PCB-104	1.99e+07	1.65	y	30:05	0.50	10300					103	2.66e+06	1.63e+06
13C-PCB-28	8.72e+07	1.07	y	26:44	1.97	11600					116	9.62e+06	9.02e+06
13C-PCB-52	3.84e+07	0.83	y	29:00	-	68.4							

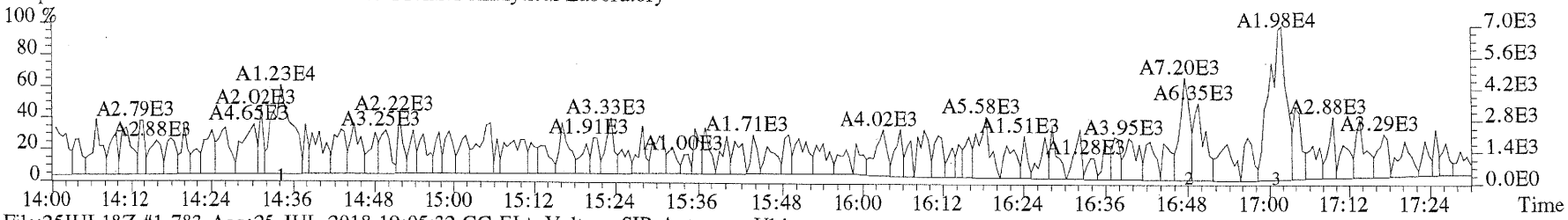
PCB-56	*	*	n	NotFnd	1.08	*		1280	1560	6.57			Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.08	*		1280	1560	6.57			Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.14	*		1280	1560	6.24			
PCB-78	2.07e+07	0.79	y	35:44	1.09	3430		-	-	*			
PCB-81	*	*	n	NotFnd	1.14	*		1280	1560	6.04			
13C-PCB-81	5.52e+07	0.82	y	36:12	1.57	11900					119	4.62e+06	5.63e+06
PCB-77	*	*	n	NotFnd	1.11	*		1280	1560	6.57			
13C-PCB-77	5.52e+07	0.82	y	36:46	1.61	11600					116	4.35e+06	5.40e+06
PCB-155	1.03e+07	1.29	y	34:17	1.24	3990		-	-	*			
PCB-150	*	*	n	NotFnd	1.13	*		312	260	2.83			
PCB-152	*	*	n	NotFnd	1.06	*		312	260	3.01			
PCB-145	*	*	n	NotFnd	1.10	*		312	260	2.89			
PCB-136	*	*	n	NotFnd	1.06	*		312	260	3.01			
PCB-148	*	*	n	NotFnd	0.84	*		312	260	3.79			
PCB-154	2.69e+04	1.41	y	37:13	0.97	13.2	J	-	-	*			
13C-PCB-155	2.09e+07	1.30	y	34:16	0.67	10500					105	2.61e+06	1.90e+06
13C-PCB-111	3.45e+07	1.61	y	36:22	1.16	10100					101	4.13e+06	2.52e+06
13C-PCB-101	2.95e+07	1.63	y	34:42	-	62.4							
PCB-84	2.07e+05	1.59	y	34:17	0.61	65.8		-	-	*			Co-elute PCB 92
PCB-92	2.07e+05	1.59	y	34:17	0.61	65.8		-	-	*			Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.58	*		900	650	6.66			
PCB-90	6.60e+04	1.43	y	34:43	0.68	18.8	J	-	-	*			Co-elute PCB 101
PCB-101	6.60e+04	1.43	y	34:43	0.68	18.8	J	-	-	*			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.77	*		900	650	5.04			
PCB-99	*	*	n	NotFnd	0.75	*		900	650	5.18			
PCB-119	*	*	n	NotFnd	0.81	*		900	650	4.75			
PCB-83	*	*	n	NotFnd	0.69	*		900	650	5.63			Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.69	*		900	650	5.63			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.82	*		900	650	4.72			
PCB-97	*	*	n	NotFnd	0.73	*		900	650	5.32			
PCB-86	*	*	n	NotFnd	0.70	*		900	650	5.50			
PCB-125	*	*	n	NotFnd	0.72	*		900	650	5.35			Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.72	*		900	650	5.35			Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.72	*		900	650	5.35			Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	0.99	*		900	650	3.89			Co-elute PCB 115
PCB-115	*	*	n	NotFnd	0.99	*		900	650	3.89			Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.71	*		900	650	5.47			Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.71	*		900	650	5.47			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.81	*		900	650	4.76			
PCB-110	5.08e+04	1.38	y	36:51	0.96	10.3	J	-	-	*			
PCB-82	*	*	n	NotFnd	0.50	*		900	650	7.76			
PCB-124	*	*	n	NotFnd	0.91	*		708	1240	5.35			
PCB-108	*	*	n	NotFnd	1.07	*		708	1240	4.52			Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.07	*		708	1240	4.52			Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.23	*		708	1240	3.87			
13C-PCB-123	4.89e+07	1.61	y	38:24	1.40	11300					113	6.36e+06	3.85e+06
PCB-118	*	*	n	NotFnd	1.03	*		708	1240	4.50			Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.03	*		708	1240	4.50			Co-elute PCB 118
13C-PCB-118	5.45e+07	1.63	y	38:34	1.53	11500					115	6.54e+06	3.94e+06
PCB-114	*	*	n	NotFnd	1.07	*		708	1240	4.74			
13C-PCB-114	5.21e+07	1.64	y	39:12	1.46	11500					115	5.99e+06	3.62e+06
PCB-122	*	*	n	NotFnd	1.10	*		708	1240	4.42			
PCB-105	*	*	n	NotFnd	1.08	*		708	1240	4.58			
13C-PCB-105	5.06e+07	1.63	y	40:00	1.44	11300					113	6.04e+06	3.77e+06

PCB-127	*	*	n	NotFnd	0.99	*	708	1240	4.91				
PCB-126	*	*	n	NotFnd	1.12	*	708	1240	5.24				
13C-PCB-126	4.73e+07	1.57	y	42:08	1.35	11300				113	5.15e+06	3.20e+06	
PCB-151	*	*	n	NotFnd	0.85	*	764	428	5.42				
PCB-135	*	*	n	NotFnd	0.82	*	764	428	5.59				
PCB-144	*	*	n	NotFnd	0.93	*	764	428	4.94				
PCB-147	*	*	n	NotFnd	0.92	*	764	428	4.98				
PCB-139	*	*	n	NotFnd	0.98	*	764	428	4.71		Co-elute PCB 149		
PCB-149	*	*	n	NotFnd	0.98	*	764	428	4.71		Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	0.95	*	764	428	4.82				
PCB-143	*	*	n	NotFnd	0.90	*	764	428	5.13		Co-elute PCB 134		
PCB-134	*	*	n	NotFnd	0.90	*	764	428	5.13		Co-elute PCB 143		
PCB-131	*	*	n	NotFnd	0.90	*	764	428	5.09		Co-elute PCB 133		
PCB-133	*	*	n	NotFnd	0.90	*	764	428	5.09		Co-elute PCB 131		
PCB-142	1.72e+07	1.34	y	39:32	0.77	6520	-	-	*				
PCB-165	*	*	n	NotFnd	1.05	*	764	428	4.38		Co-elute PCB 146		
PCB-146	*	*	n	NotFnd	1.05	*	764	428	4.38		Co-elute PCB 165		
PCB-161	*	*	n	NotFnd	1.00	*	764	428	4.62		Co-elute PCB 132		
PCB-132	*	*	n	NotFnd	1.00	*	764	428	4.62		Co-elute PCB 161		
PCB-153	2.61e+05	1.29	y	40:13	1.01	75.6	-	-	*				
PCB-168	*	*	n	NotFnd	1.15	*	764	428	3.98				
PCB-141	*	*	n	NotFnd	0.89	*	764	428	5.17				
PCB-137	*	*	n	NotFnd	0.90	*	764	428	5.10				
PCB-130	*	*	n	NotFnd	0.76	*	764	428	6.06				
PCB-138	*	*	n	NotFnd	1.17	*	764	428	3.92		Co-elute PCB 163/164		
PCB-163	*	*	n	NotFnd	1.17	*	764	428	3.92		Co-elute PCB 138/164		
PCB-164	*	*	n	NotFnd	1.17	*	764	428	3.92		Co-elute PCB 138/163		
PCB-158	*	*	n	NotFnd	1.18	*	764	428	3.90		Co-elute PCB 160		
PCB-160	*	*	n	NotFnd	1.18	*	764	428	3.90		Co-elute PCB 158		
PCB-129	*	*	n	NotFnd	0.77	*	764	428	5.99				
PCB-166	*	*	n	NotFnd	1.08	*	764	428	4.26				
PCB-159	*	*	n	NotFnd	1.19	*	764	428	3.85				
PCB-128	*	*	n	NotFnd	0.98	*	764	428	4.69		Co-elute PCB 162		
PCB-162	*	*	n	NotFnd	0.98	*	764	428	4.69		Co-elute PCB 128		
PCB-167	*	*	n	NotFnd	1.05	*	764	428	4.47				
13C-PCB-167	3.42e+07	1.27	y	43:29	1.12	9820				98.2	3.55e+06	2.78e+06	
PCB-156	*	*	n	NotFnd	1.11	*	764	428	4.20				
13C-PCB-156	3.43e+07	1.31	y	44:43	1.07	10300				103	3.63e+06	2.79e+06	
PCB-157	*	*	n	NotFnd	1.14	*	764	428	4.00				
13C-PCB-157	3.47e+07	1.29	y	44:58	1.12	10000				100	3.68e+06	2.84e+06	
PCB-169	*	*	n	NotFnd	1.07	*	764	428	4.18				
13C-PCB-169	3.38e+07	1.28	y	46:51	1.08	10100				101	3.76e+06	2.91e+06	

PCB-188	*	*	n	NotFnd	1.21	*	552	268	3.26			
13C-PCB-188	2.33e+07	1.07	y	39:45	0.80	9410				94.1	2.72e+06	2.49e+06
PCB-184	1.35e+07	1.08	y	40:11	1.25	4870	-	-	*			
PCB-179	*	*	n	NotFnd	1.15	*	552	268	3.44			
PCB-176	*	*	n	NotFnd	1.14	*	552	268	3.48			
PCB-186	*	*	n	NotFnd	1.19	*	552	268	3.33			
PCB-178	*	*	n	NotFnd	0.83	*	552	268	4.79			
PCB-175	*	*	n	NotFnd	0.88	*	552	268	4.48			
PCB-187	*	*	n	NotFnd	0.99	*	552	268	3.99	Co-elute PCB 182		
PCB-182	*	*	n	NotFnd	0.99	*	552	268	3.99	Co-elute PCB 187		
PCB-183	*	*	n	NotFnd	0.93	*	552	268	4.25			
PCB-185	*	*	n	NotFnd	0.88	*	552	268	4.48			
PCB-174	*	*	n	NotFnd	0.89	*	552	268	4.44			
PCB-181	*	*	n	NotFnd	0.90	*	552	268	4.38			
PCB-177	*	*	n	NotFnd	0.79	*	552	268	5.00			
PCB-171	*	*	n	NotFnd	0.85	*	552	268	4.64			
PCB-173	*	*	n	NotFnd	0.80	*	552	268	4.94			
PCB-172	2.76e+05	1.08	y	45:27	0.80	156	-	-	*			
PCB-192	8.65e+06	1.07	y	45:42	1.11	3500	-	-	*			
PCB-180	*	*	n	NotFnd	1.09	*	552	268	3.62			
PCB-193	*	*	n	NotFnd	1.16	*	552	268	3.41			
PCB-191	*	*	n	NotFnd	1.08	*	552	268	3.66			
PCB-170	*	*	n	NotFnd	0.77	*	552	268	5.12			
PCB-190	*	*	n	NotFnd	1.09	*	552	268	3.64			
PCB-189	*	*	n	NotFnd	1.17	*	552	268	3.42			
13C-PCB-189	2.11e+07	1.08	y	48:30	0.73	9350				93.5	2.71e+06	2.43e+06
PCB-202	*	*	n	NotFnd	1.03	*	200	224	3.42			
PCB-201	*	*	n	NotFnd	1.02	*	200	224	3.46			
PCB-204	1.33e+07	0.95	y	45:27	1.00	10100	-	-	*			
PCB-197	8.10e+04	0.91	y	45:44	1.08	56.7	-	-	*			
PCB-200	*	*	n	NotFnd	1.01	*	200	224	3.52			
PCB-198	*	*	n	NotFnd	0.74	*	200	224	4.76			
PCB-199	*	*	n	NotFnd	0.84	*	200	224	4.24			
PCB-203	*	*	n	NotFnd	0.87	*	200	224	4.09	Co-elute PCB 196		
PCB-196	*	*	n	NotFnd	0.87	*	200	224	4.09	Co-elute PCB 203		
13C-PCB-202	1.32e+07	0.93	y	44:51	0.44	9710				97.1	1.42e+06	1.58e+06
13C-PCB-178	1.74e+07	1.08	y	42:23	0.60	9270				92.7	1.96e+06	1.81e+06
13C-PCB-138	3.10e+07	1.30	y	41:37	-	64.0						
PCB-195	*	*	n	NotFnd	0.71	*	376	1380	4.79			
PCB-194	*	*	n	NotFnd	0.79	*	376	1380	4.27			
PCB-205	*	*	n	NotFnd	1.07	*	376	1380	3.16			
13C-PCB-205	4.49e+07	0.93	y	50:08	1.23	9470				94.7	6.24e+06	6.72e+06
PCB-208	*	*	n	NotFnd	1.01	*	416	444	1.99			
13C-PCB-208	3.35e+07	0.80	y	49:10	0.97	8940				89.4	4.72e+06	5.94e+06
PCB-207	1.14e+05	1.38	y	49:30	0.98	38.1	-	-	*			
PCB-206	*	*	n	NotFnd	1.00	*	416	444	2.63			
13C-PCB-206	2.79e+07	0.81	y	51:19	0.88	8250				82.5	3.61e+06	4.56e+06
PCB-209	1.30e+05	1.16	y	52:32	1.12	41.4	-	-	*			
13C-PCB-209	2.80e+07	1.21	y	52:31	0.97	7530				75.3	4.31e+06	3.53e+06
13C-PCB-194	3.85e+07	0.93	y	49:53	-	70.9						

Analyst: _____ Date: 8/20/18

File:25JUL18Z #1-783 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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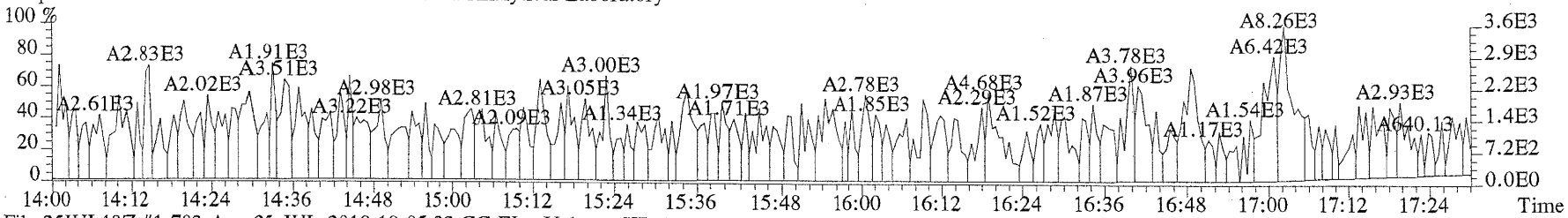

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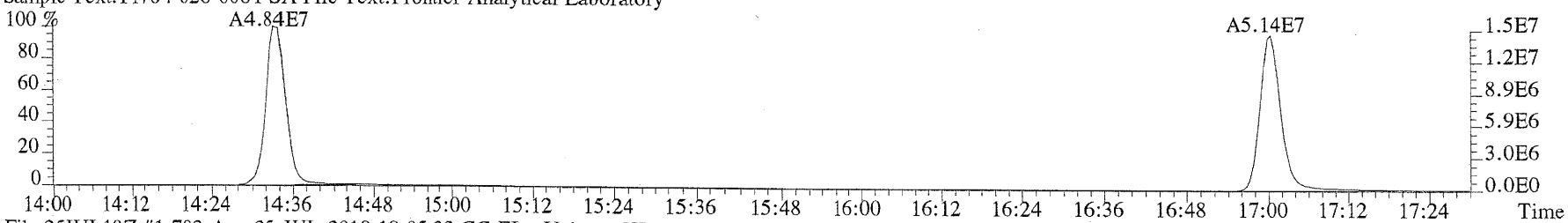

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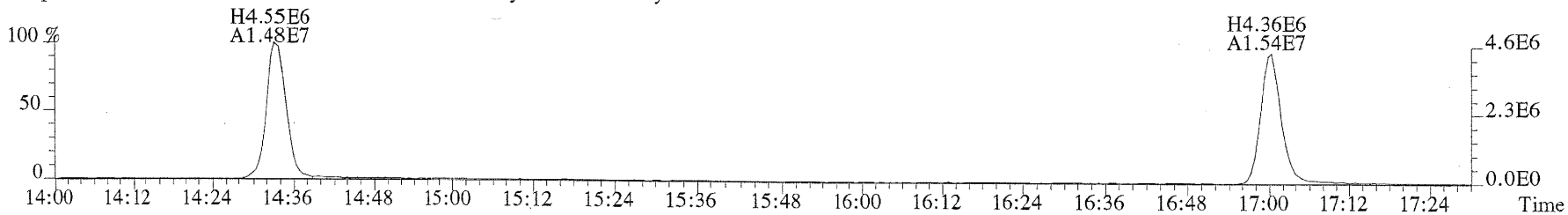

File:25JUL18Z #1-520 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
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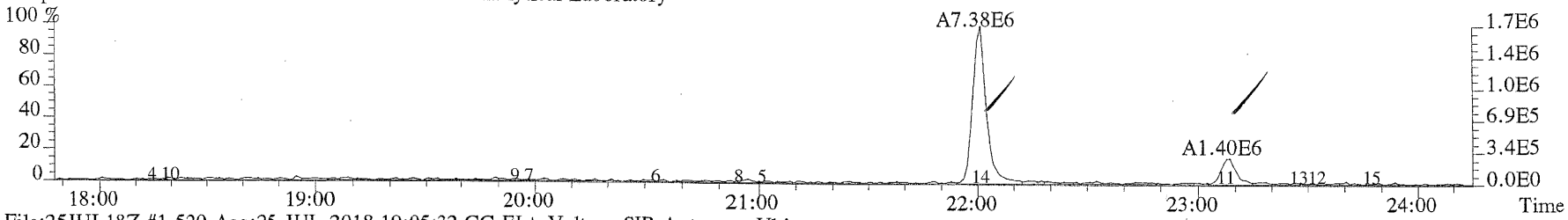

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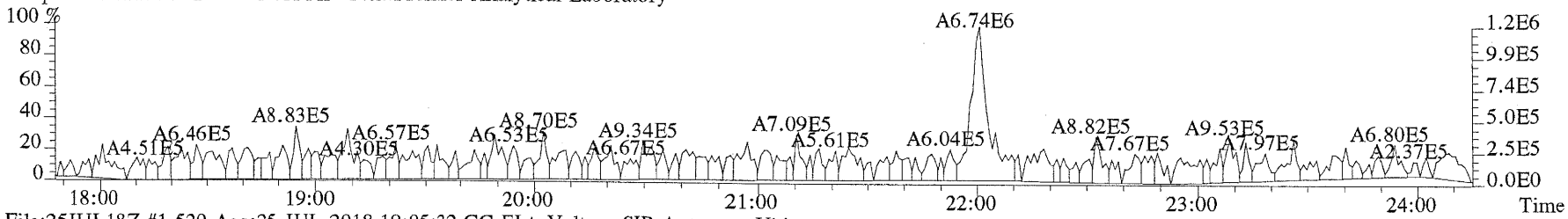

File:25JUL18Z #1-520 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
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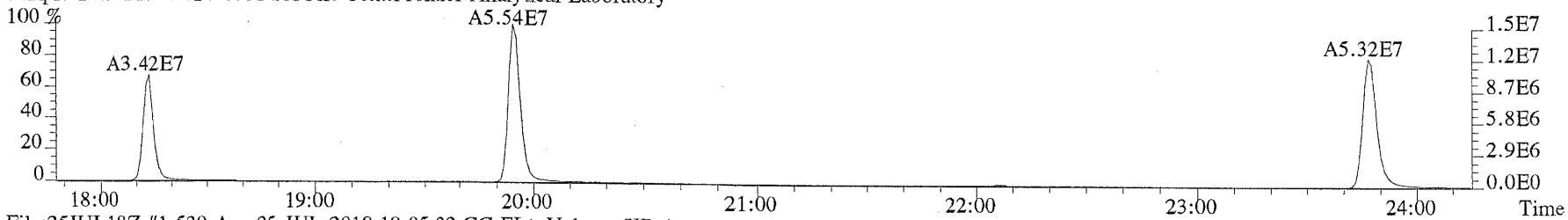
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-520 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
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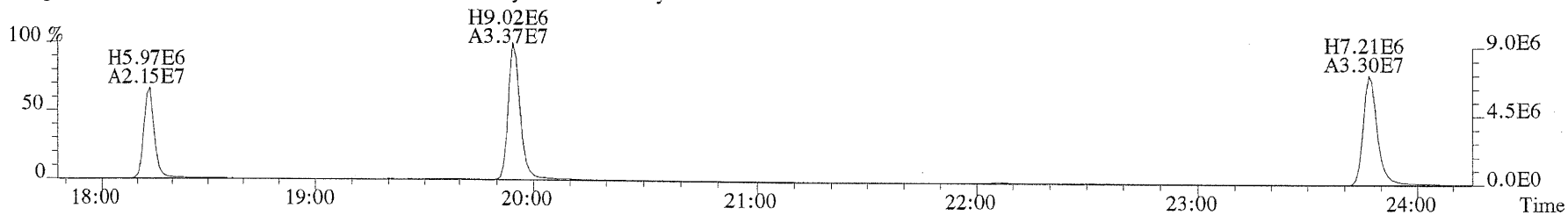
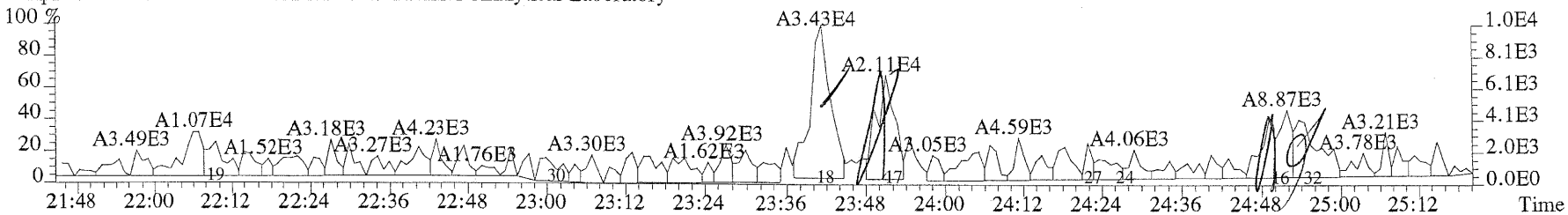
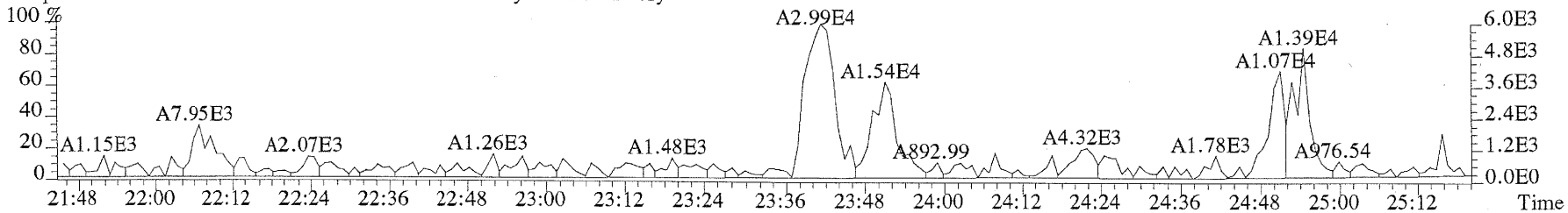
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-520 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory

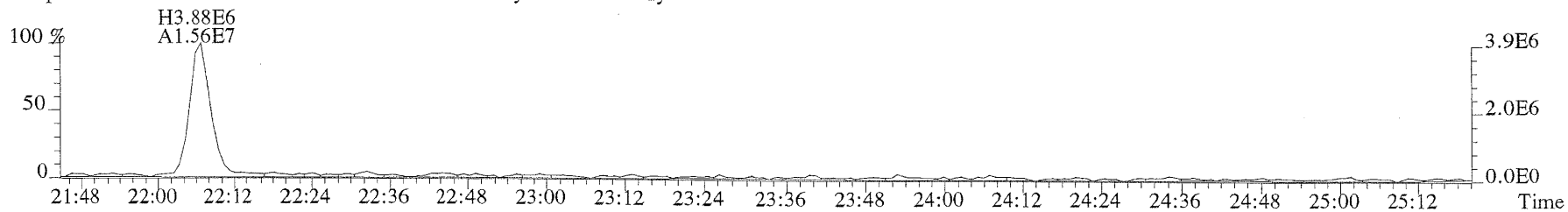


File:25JUL18Z #1-520 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory

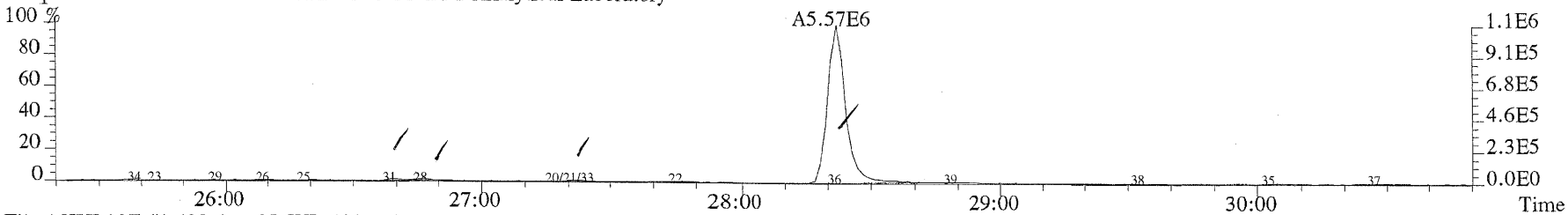


File:25JUL18Z #1-520 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory

File:25JUL18Z #1-520 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-402 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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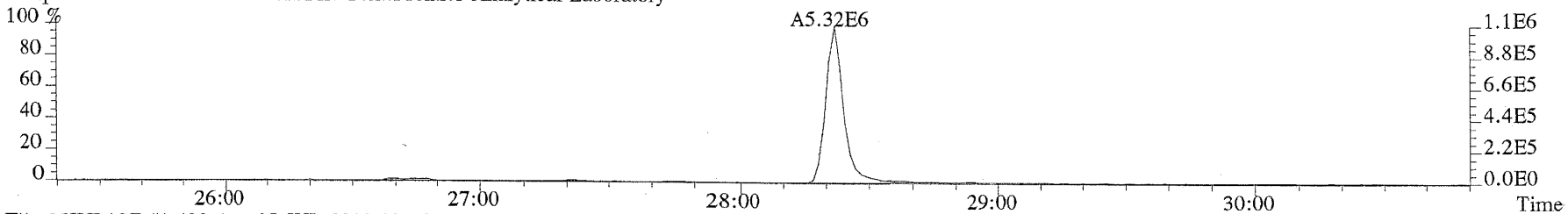
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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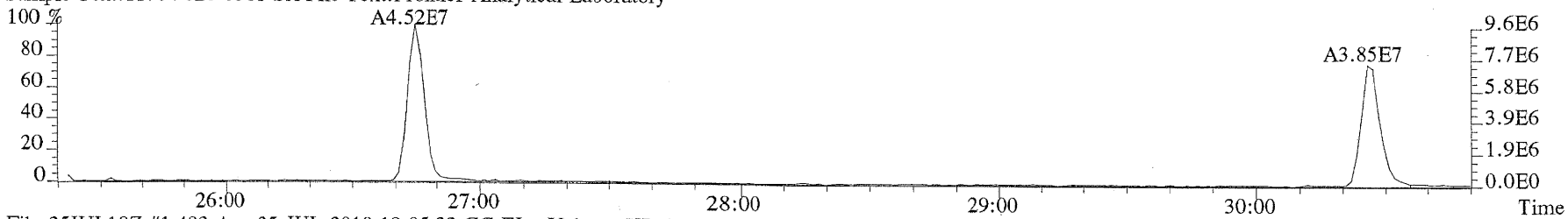
268.0016 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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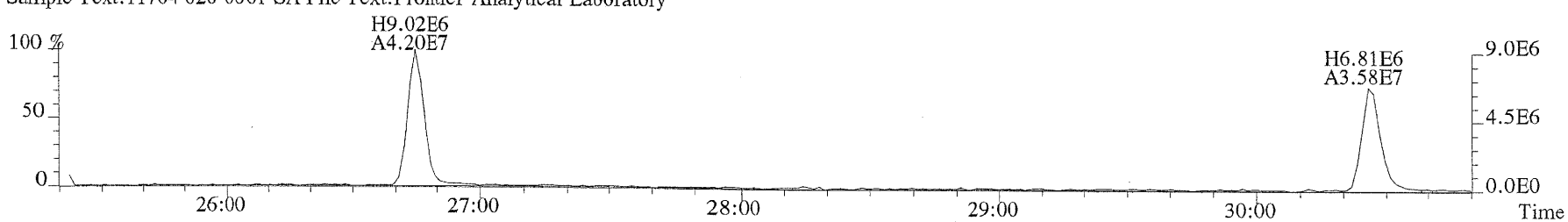
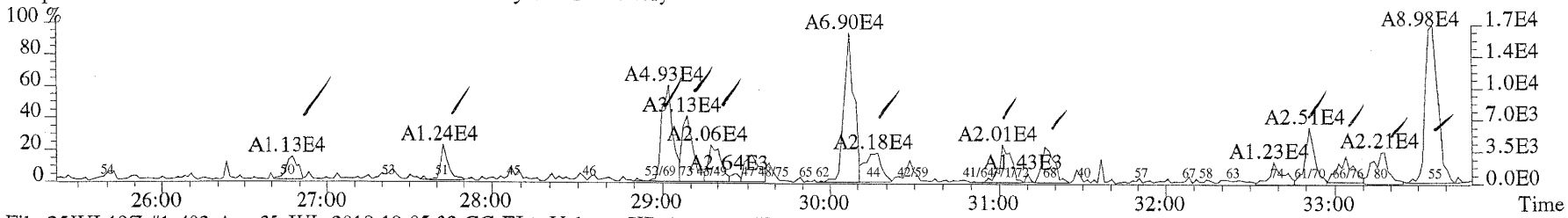
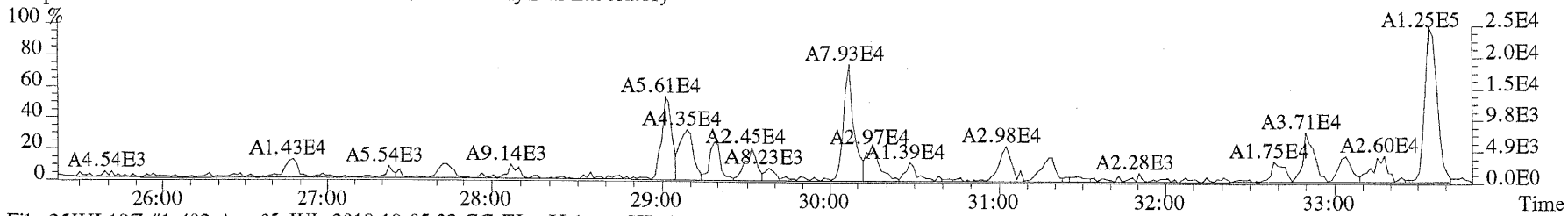
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



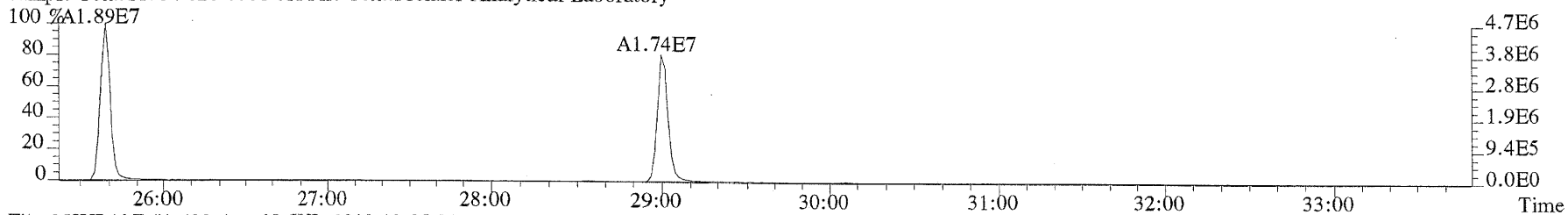
File:25JUL18Z #1-402 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



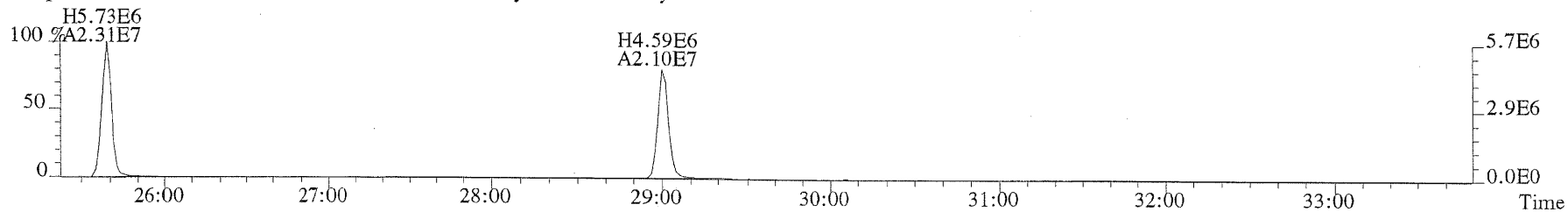
File:25JUL18Z #1-402 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



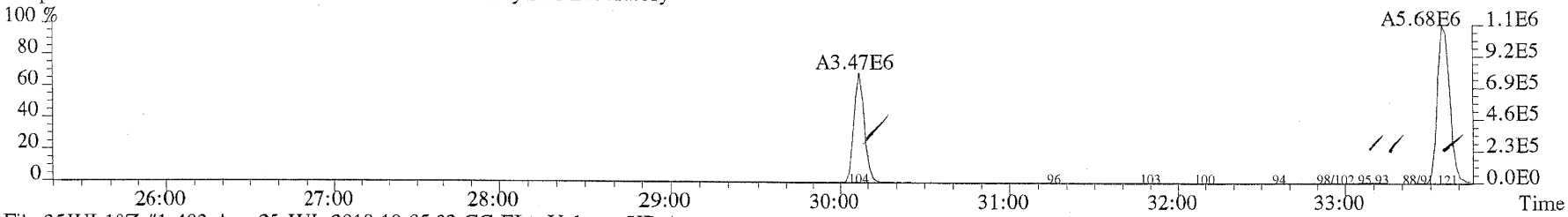
File:25JUL18Z #1-402 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



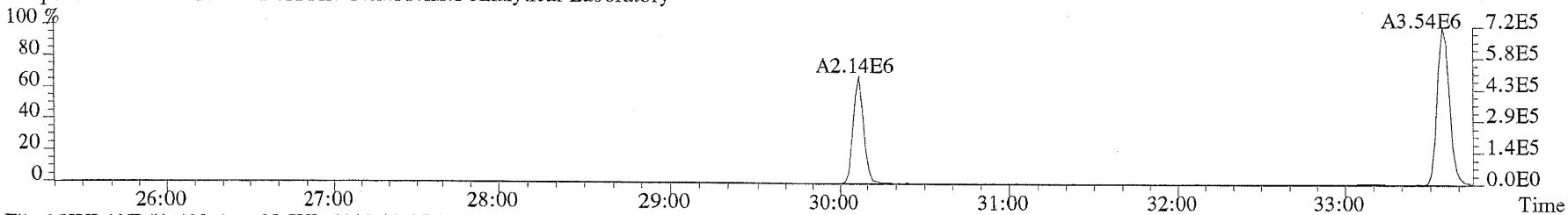
File:25JUL18Z #1-402 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



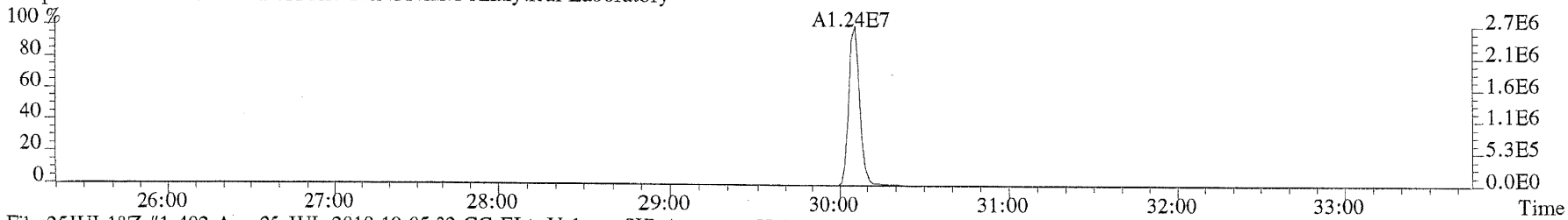
File:25JUL18Z #1-402 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



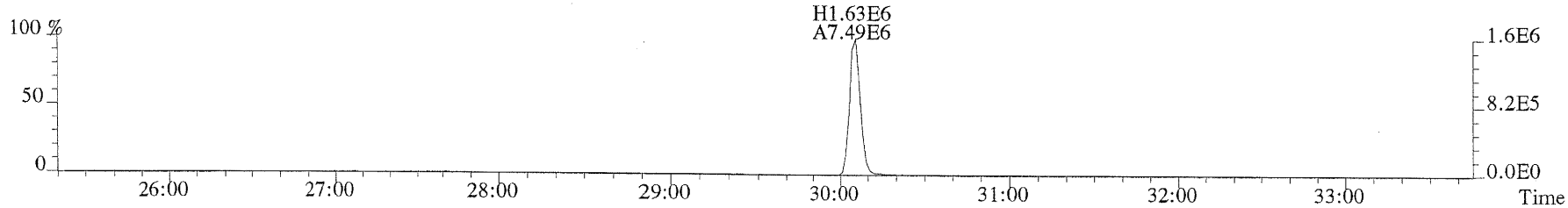
File:25JUL18Z #1-402 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



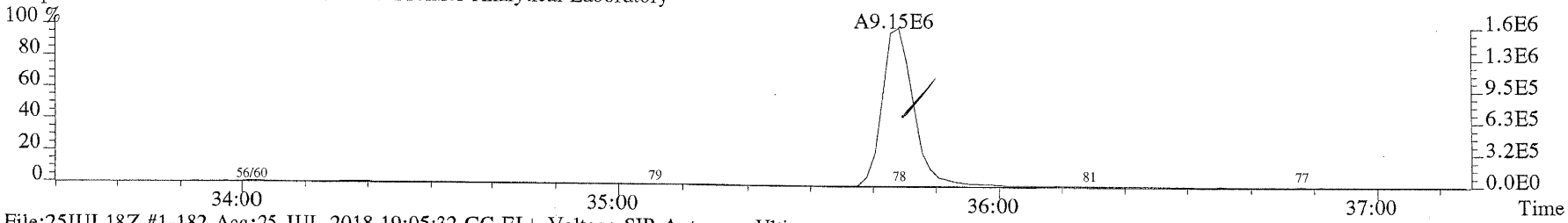
File:25JUL18Z #1-402 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



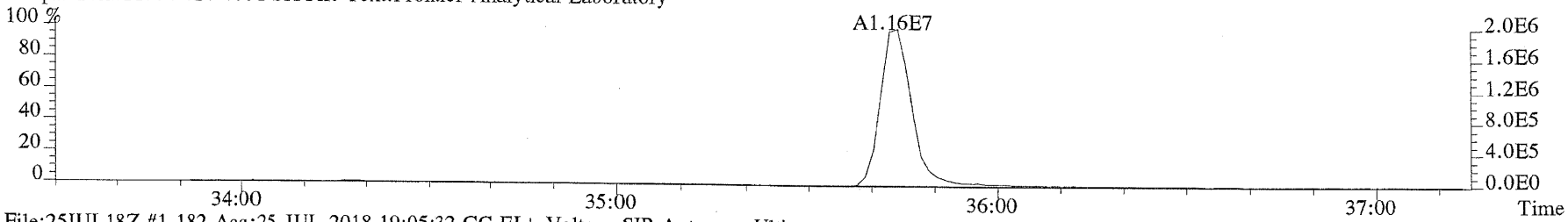
File:25JUL18Z #1-402 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



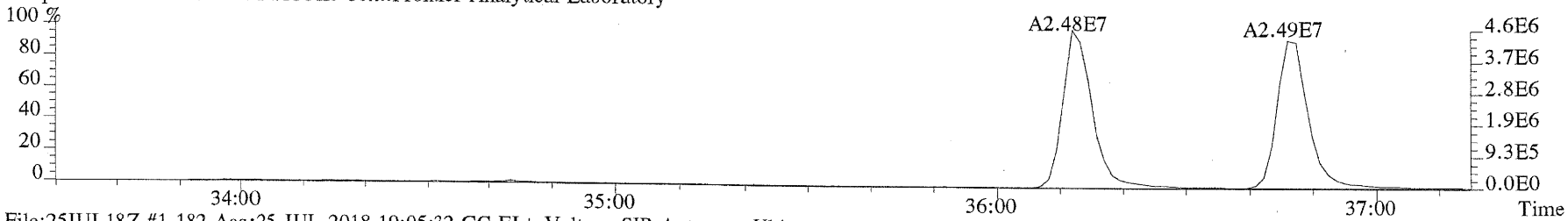
File:25JUL18Z #1-182 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



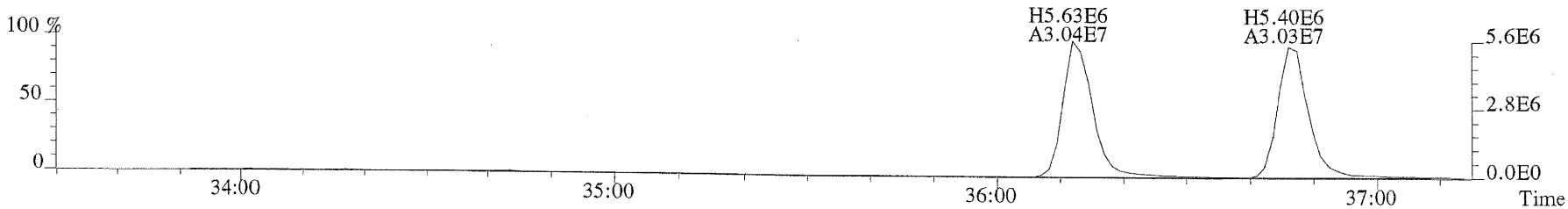
File:25JUL18Z #1-182 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



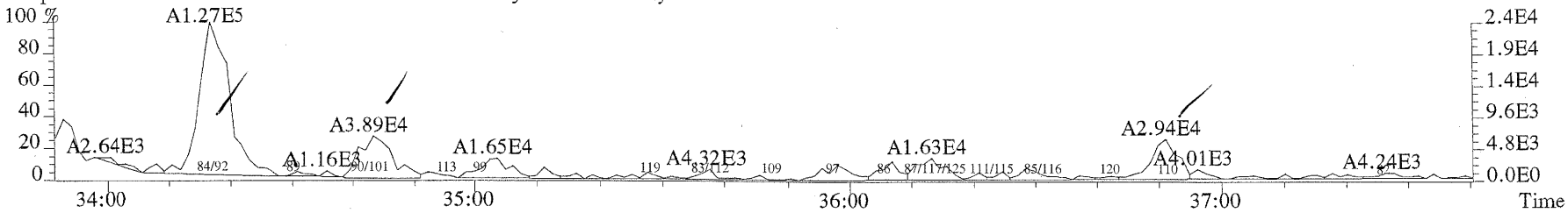
File:25JUL18Z #1-182 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



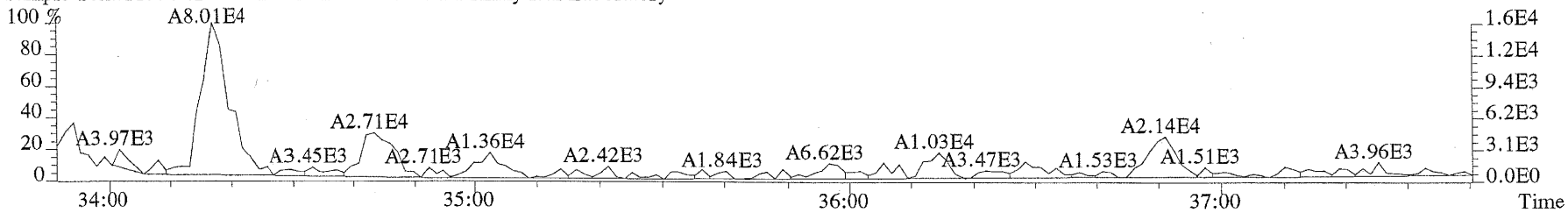
File:25JUL18Z #1-182 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



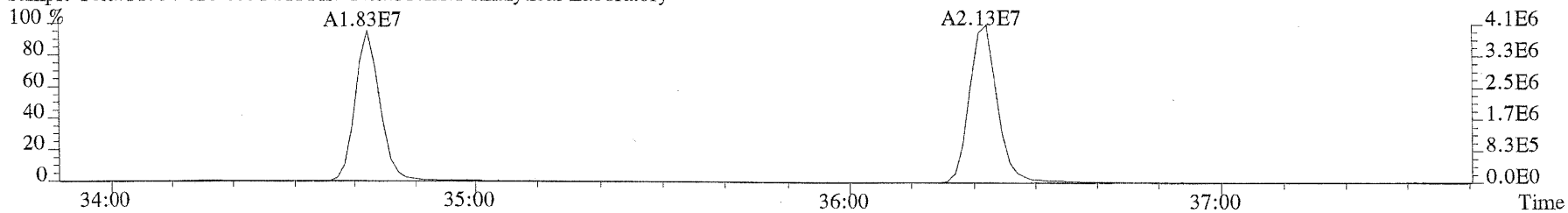
File:25JUL18Z #1-182 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



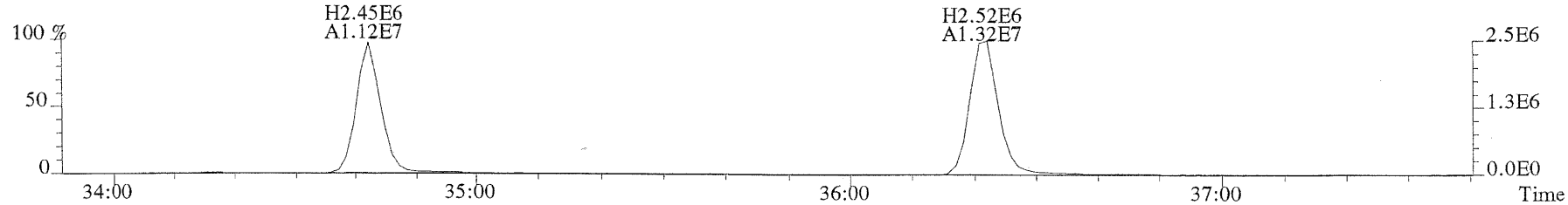
File:25JUL18Z #1-182 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



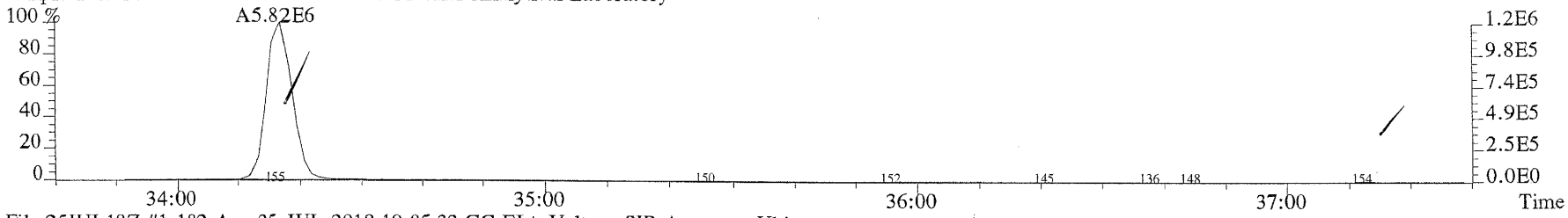
File:25JUL18Z #1-182 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



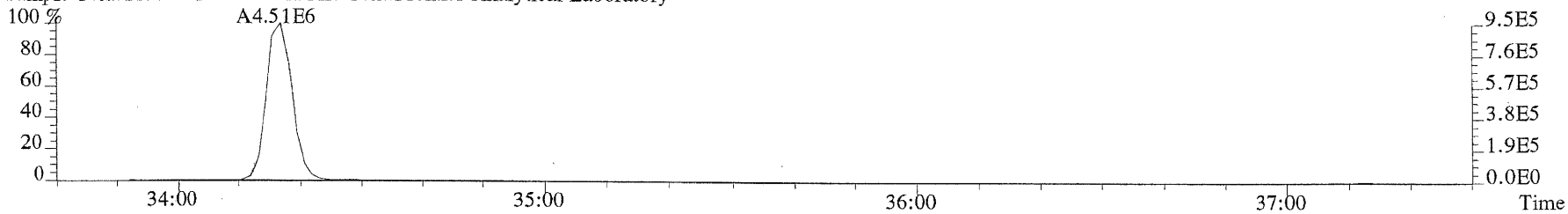
File:25JUL18Z #1-182 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



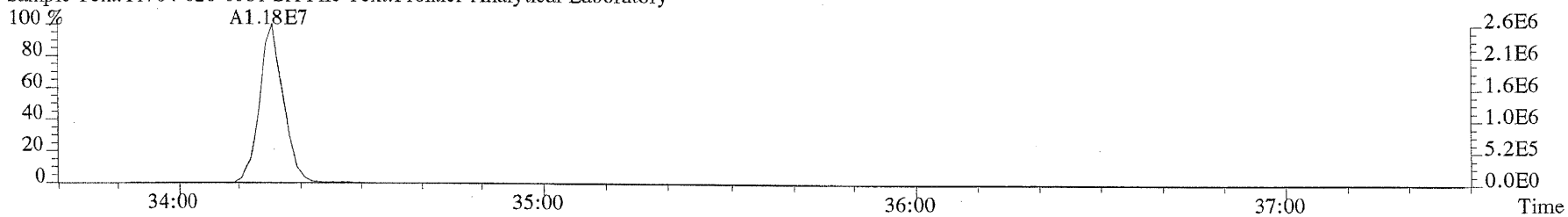
File:25JUL18Z #1-182 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



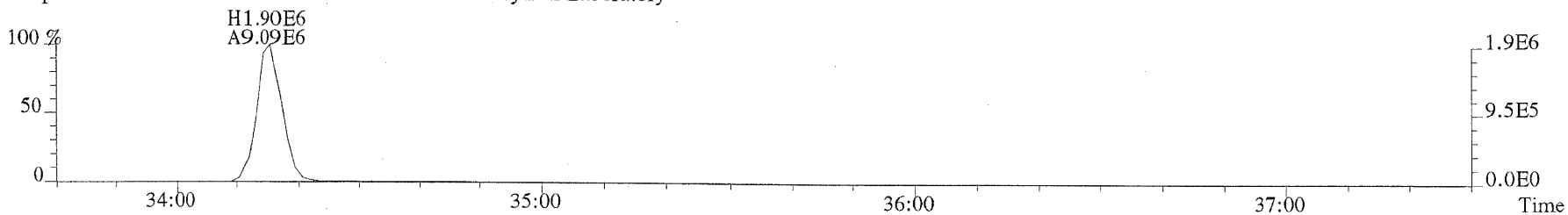
File:25JUL18Z #1-182 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



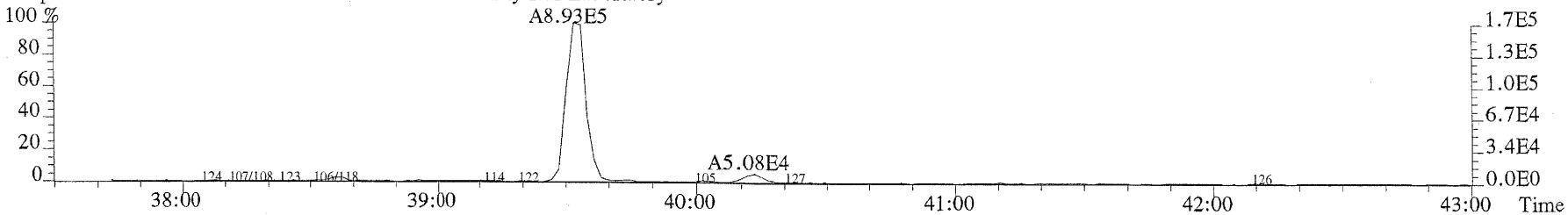
File:25JUL18Z #1-182 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



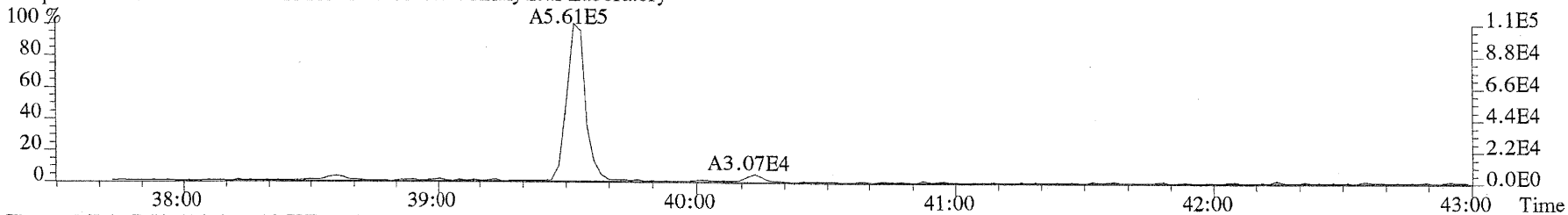
File:25JUL18Z #1-182 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



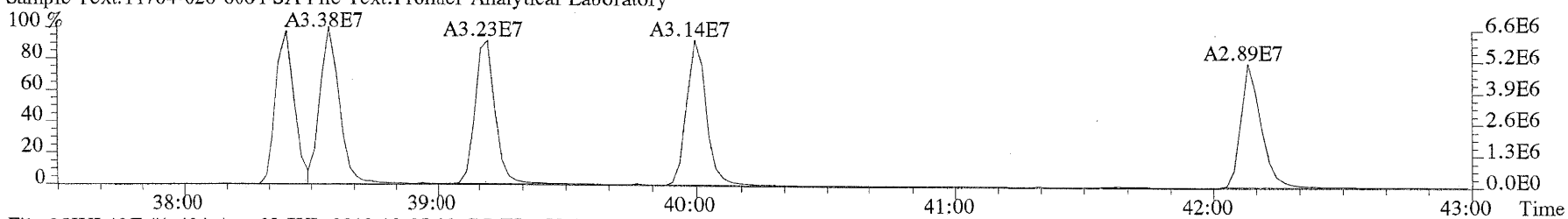
File:25JUL18Z #1-404 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



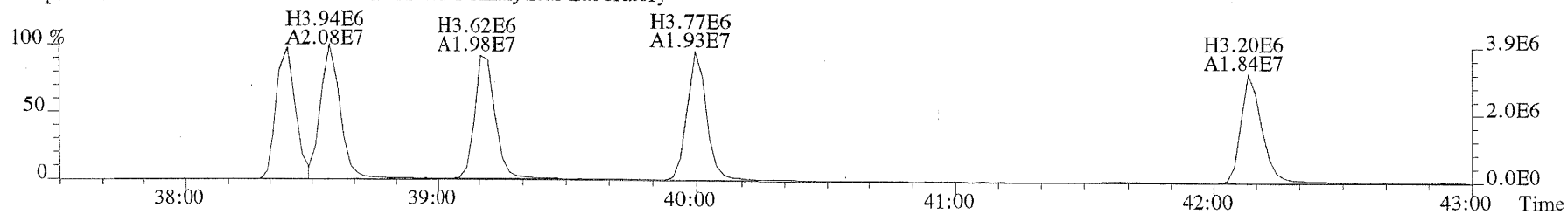
File:25JUL18Z #1-404 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



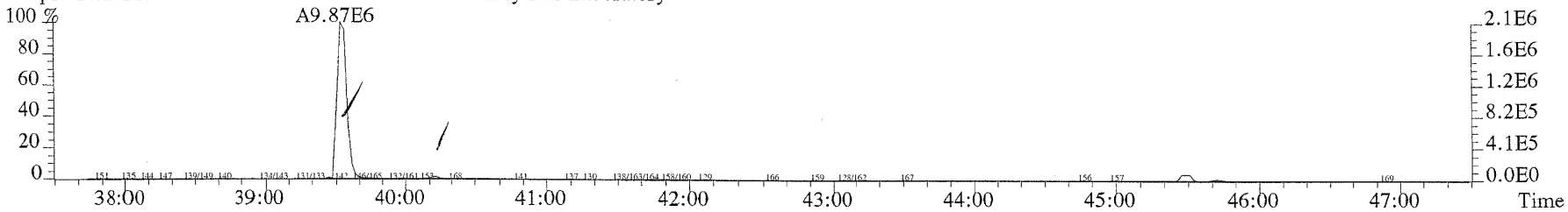
File:25JUL18Z #1-404 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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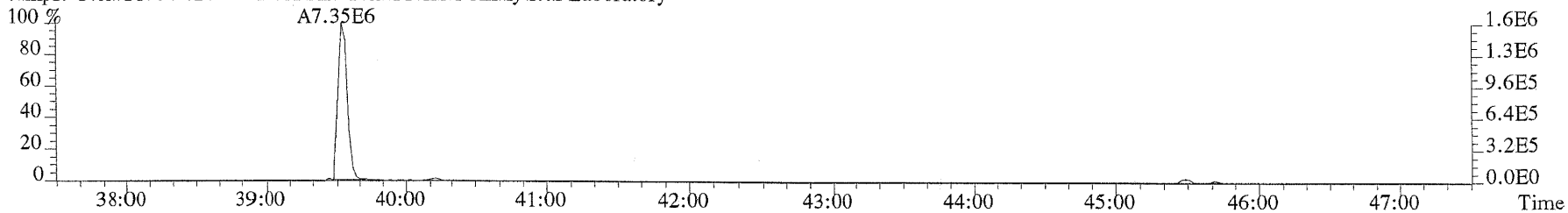
361.8385 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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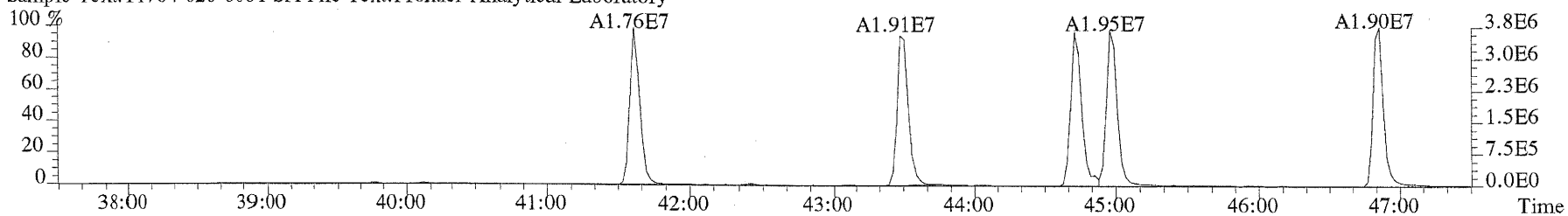
371.8817 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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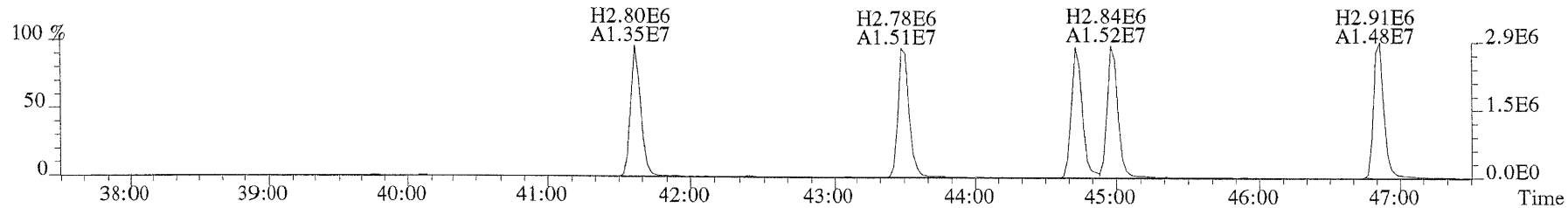
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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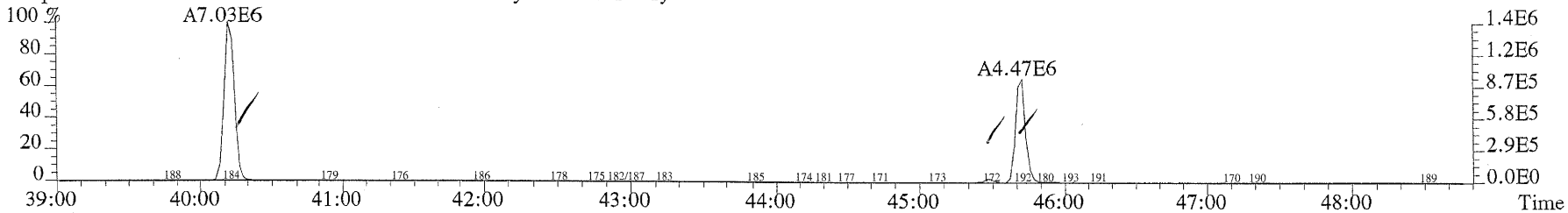
393.8025 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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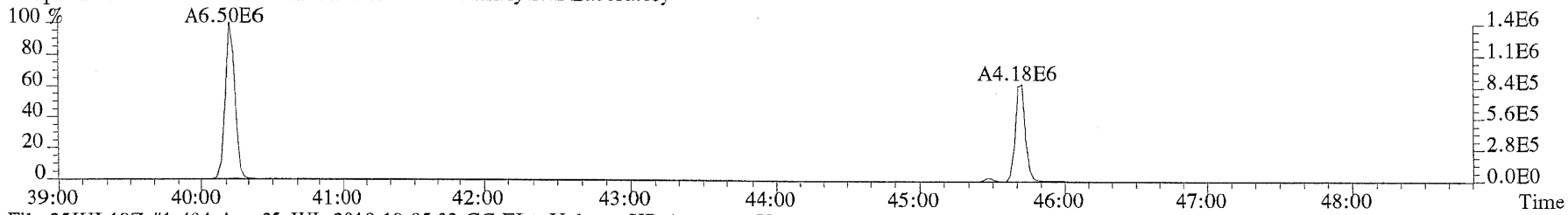
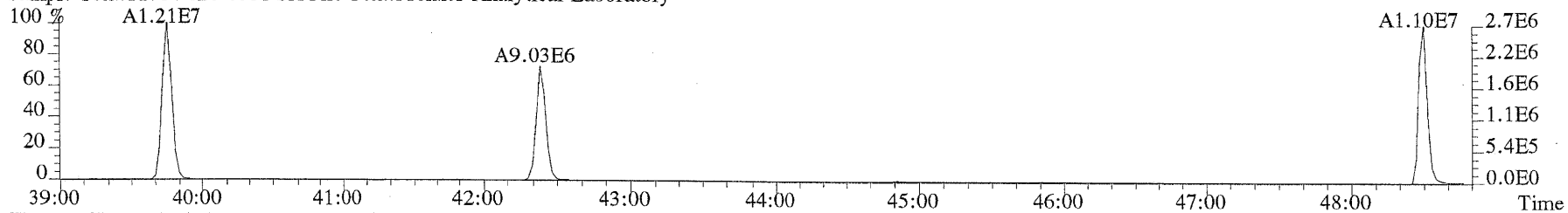
395.7995 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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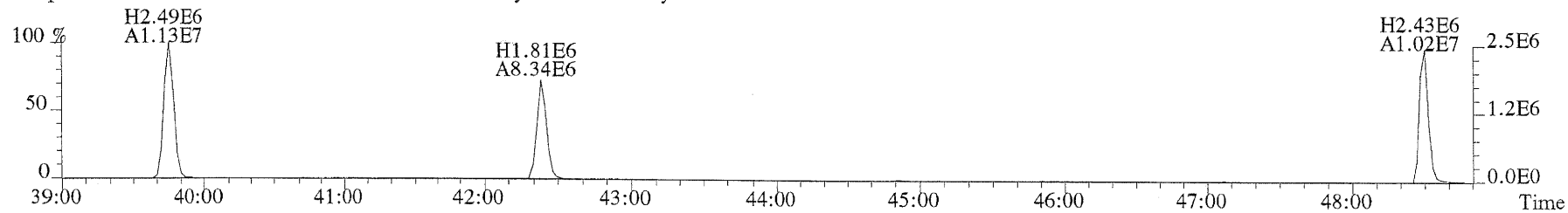
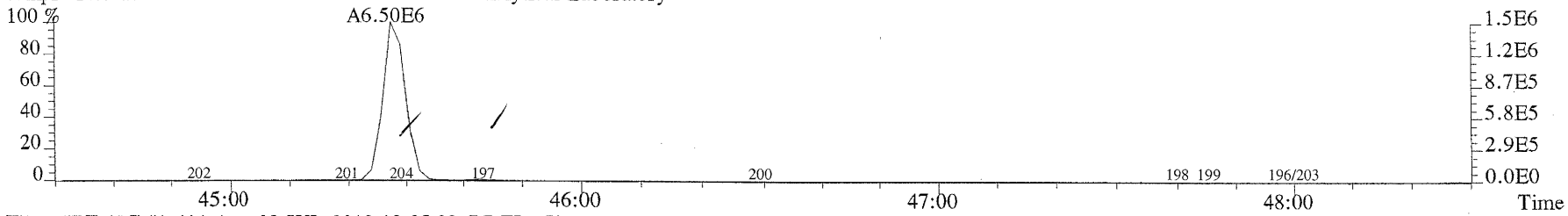
407.8398 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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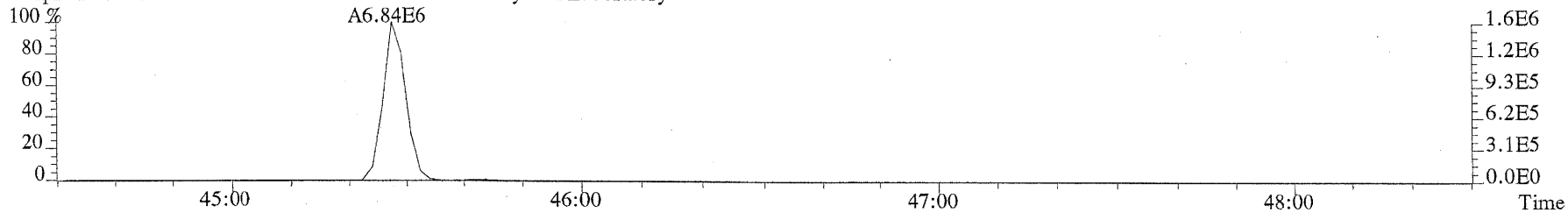
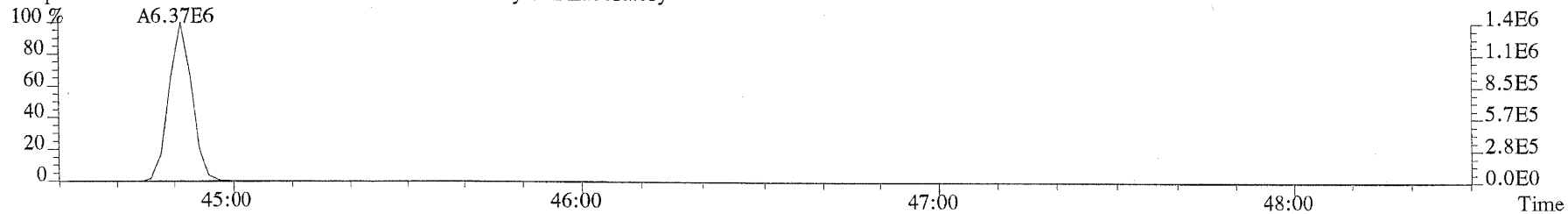
429.7606 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-404 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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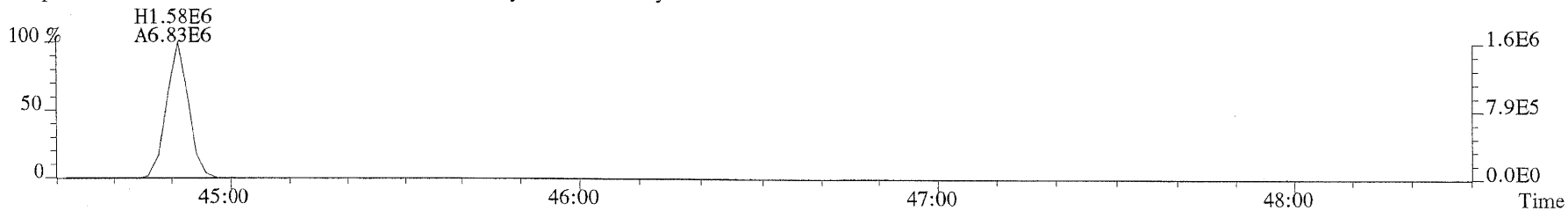
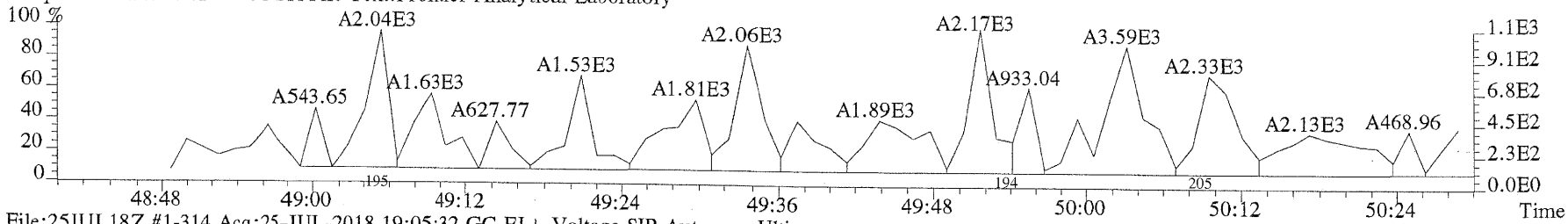
441.8008 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-314 Acq:25-JUL-2018 19:05:32 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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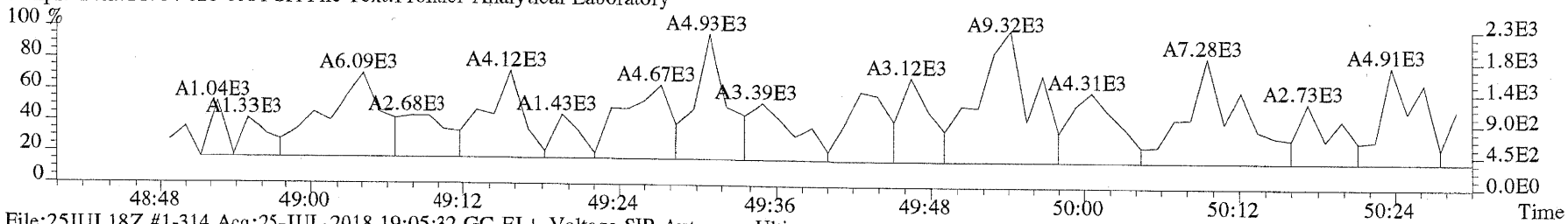
429.7606 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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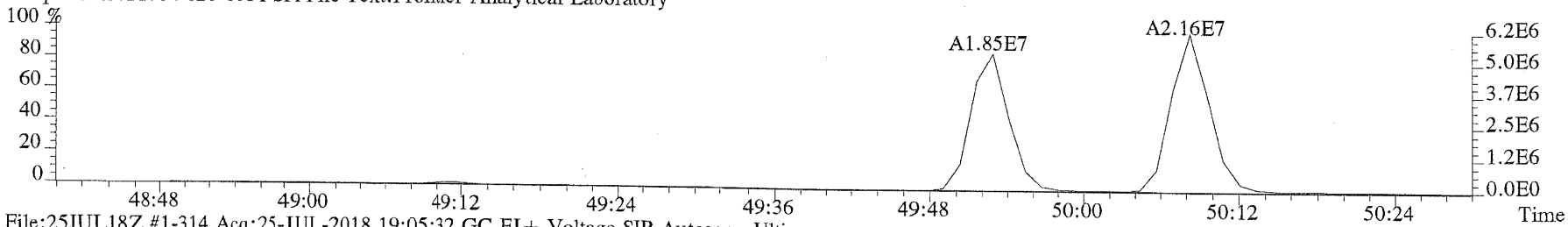
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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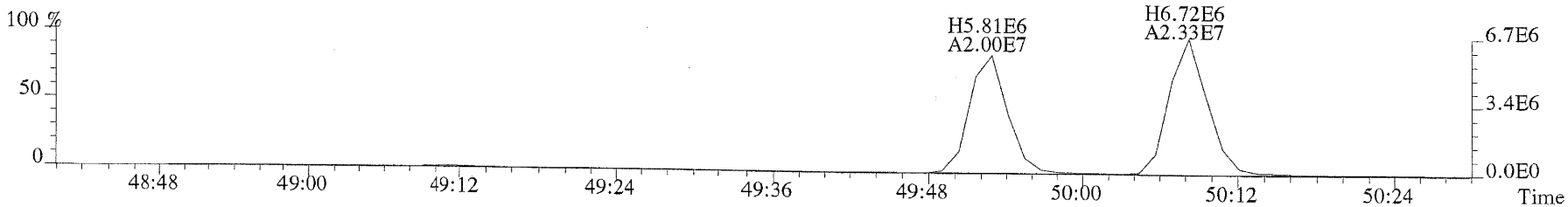

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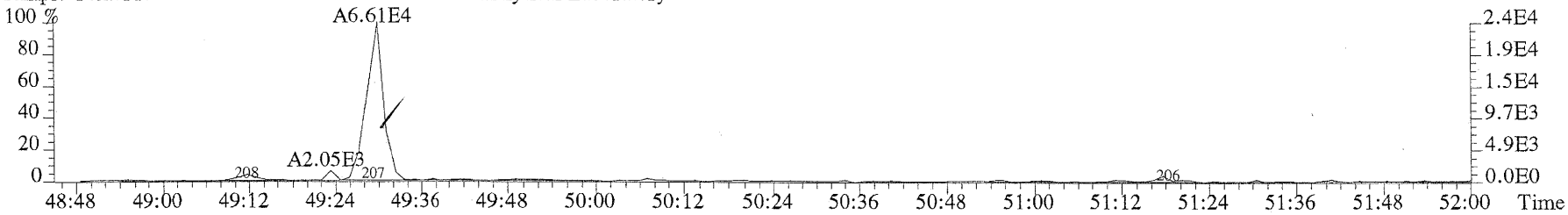
463.7216 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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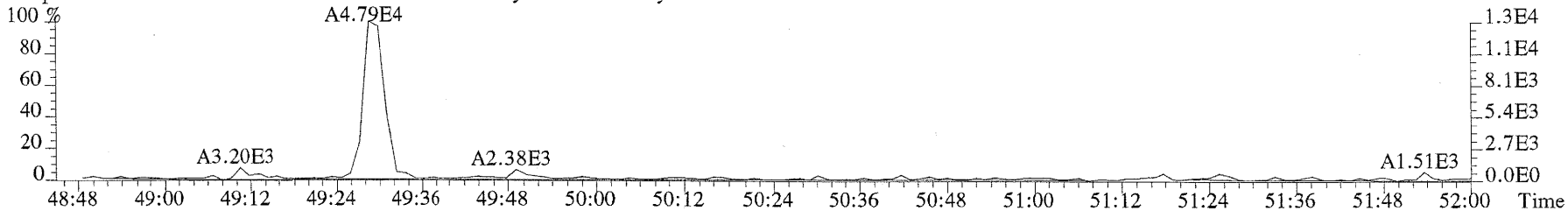

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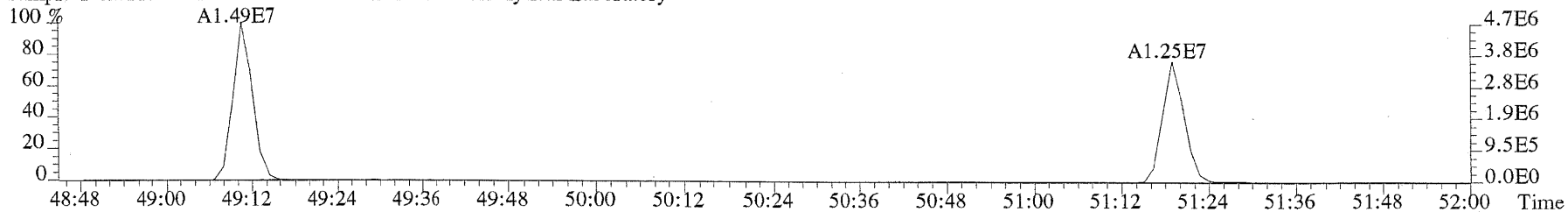
473.7648 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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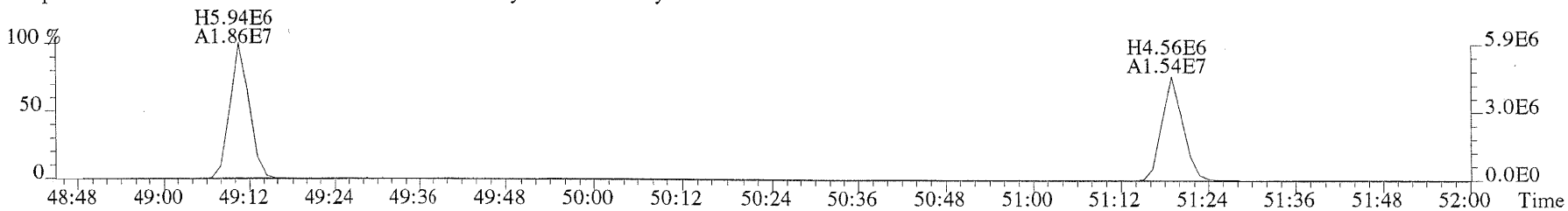
475.7619 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11704-020-0001-SA File Text:Frontier Analytical Laboratory



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497.6826 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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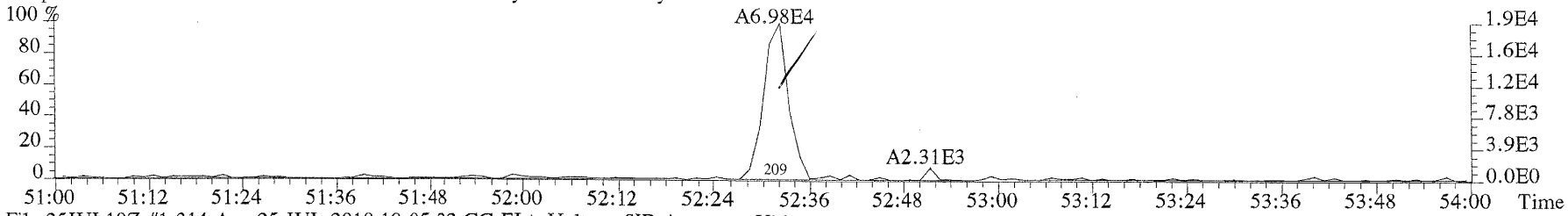

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499.6797 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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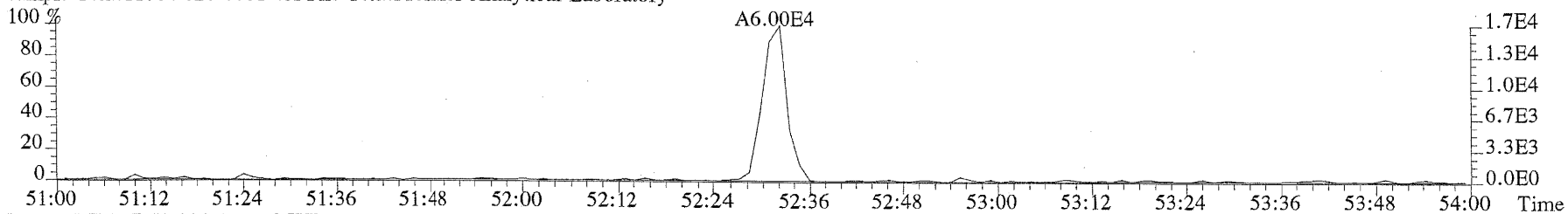

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509.7229 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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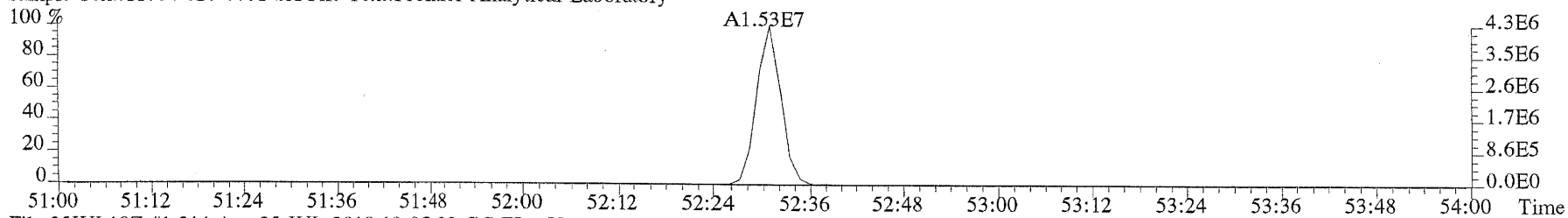

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511.7199 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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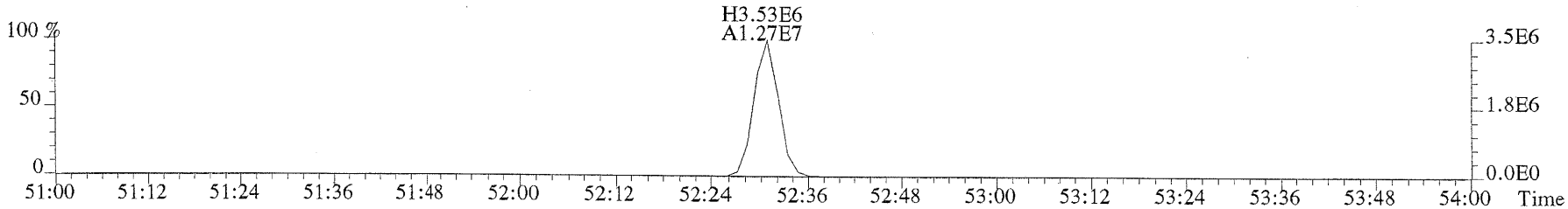


Frontier Analytical Laboratory

Data Filename: 04APR18Z

Analyte: 1668FAL4-4-4-18 Cal: 1668FAL4-4-4-18

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	1.11	0.0262	2.37 %	1.13	1.08	1.10	1.08	1.10	1.15
13C-PCB-1	1.07	0.0363	3.41 %	1.06	1.07	1.06	1.05	1.02	1.13
PCB-3	1.13	0.0257	2.27 %	1.18	1.12	1.12	1.10	1.12	1.13
13C-PCB-3	1.03	0.0129	1.25 %	1.02	1.04	1.03	1.02	1.02	1.06
PCB-4	1.14	0.0264	2.31 %	1.16	1.19	1.14	1.12	1.12	1.13
13C-PCB-4	0.67	0.00899	1.33 %	0.66	0.67	0.68	0.67	0.69	0.68
PCB-15	1.10	0.0225	2.04 %	1.09	1.14	1.09	1.08	1.11	1.10
13C-PCB-15	1.03	0.0217	2.10 %	1.05	1.01	1.00	1.03	1.06	1.04
PCB-19	1.23	0.0474	3.86 %	1.31	1.26	1.18	1.21	1.22	1.20
13C-PCB-19	0.47	0.0195	4.14 %	0.49	0.46	0.47	0.43	0.48	0.48
13C-PCB-9	-	-	- %	-	-	-	-	-	-
PCB-37	1.26	0.0240	1.91 %	1.23	1.29	1.25	1.24	1.28	1.25
13C-PCB-37	1.40	0.0342	2.45 %	1.44	1.39	1.38	1.35	1.40	1.42
PCB-54	1.16	0.0261	2.26 %	1.19	1.13	1.19	1.14	1.15	1.14
13C-PCB-54	1.19	0.0287	2.42 %	1.19	1.18	1.22	1.13	1.20	1.19
PCB-104	1.22	0.0533	4.35 %	1.20	1.31	1.26	1.16	1.21	1.21
13C-PCB-104	0.80	0.0209	2.61 %	0.82	0.77	0.80	0.82	0.81	0.77
13C-PCB-28	1.53	0.0891	5.84 %	1.58	1.50	1.65	1.43	1.43	1.58
13C-PCB-52	-	-	- %	-	-	-	-	-	-
PCB-81	1.17	0.0376	3.21 %	1.21	1.15	1.13	1.16	1.22	1.14
13C-PCB-81	1.37	0.0667	4.86 %	1.28	1.36	1.34	1.39	1.37	1.48
PCB-77	1.11	0.0303	2.73 %	1.08	1.10	1.13	1.11	1.16	1.07
13C-PCB-77	1.41	0.0903	6.43 %	1.38	1.34	1.34	1.34	1.48	1.55
PCB-155	1.14	0.0343	3.00 %	1.08	1.16	1.18	1.14	1.15	1.14
13C-PCB-155	1.02	0.0260	2.55 %	0.97	1.04	1.04	1.03	1.01	1.03
13C-PCB-111	1.26	0.0241	1.91 %	1.23	1.27	1.29	1.24	1.27	1.27
13C-PCB-101	-	-	- %	-	-	-	-	-	-
PCB-123	1.12	0.0436	3.88 %	1.20	1.14	1.14	1.08	1.10	1.09
13C-PCB-123	1.36	0.0568	4.18 %	1.28	1.38	1.35	1.32	1.44	1.38
PCB-118	1.16	0.0551	4.76 %	1.26	1.13	1.15	1.13	1.17	1.11
13C-PCB-118	1.42	0.0459	3.22 %	1.38	1.41	1.40	1.40	1.51	1.44
PCB-114	1.13	0.0379	3.37 %	1.12	1.17	1.17	1.08	1.12	1.09
13C-PCB-114	1.38	0.0520	3.77 %	1.33	1.38	1.34	1.35	1.44	1.45
PCB-105	1.11	0.0135	1.22 %	1.12	1.12	1.11	1.09	1.12	1.10
13C-PCB-105	1.38	0.0477	3.46 %	1.34	1.34	1.35	1.36	1.46	1.41
PCB-126	1.11	0.0514	4.62 %	1.20	1.13	1.08	1.11	1.10	1.05
13C-PCB-126	1.29	0.0657	5.11 %	1.24	1.24	1.26	1.24	1.39	1.35
PCB-167	1.05	0.0291	2.77 %	1.00	1.08	1.06	1.03	1.07	1.04
13C-PCB-167	1.23	0.0370	3.00 %	1.21	1.20	1.23	1.21	1.30	1.25
PCB-156	1.08	0.0305	2.83 %	1.08	1.02	1.09	1.08	1.12	1.07
13C-PCB-156	1.19	0.0378	3.17 %	1.16	1.17	1.18	1.17	1.26	1.20
PCB-157	1.06	0.0230	2.18 %	1.08	1.04	1.03	1.05	1.08	1.05
13C-PCB-157	1.24	0.0597	4.83 %	1.21	1.19	1.19	1.22	1.35	1.26
PCB-169	1.06	0.0490	4.62 %	1.14	1.08	1.06	1.03	1.06	1.00
13C-PCB-169	1.15	0.0676	5.89 %	1.09	1.11	1.12	1.15	1.28	1.15
PCB-188	1.14	0.0632	5.53 %	1.20	1.17	1.22	1.07	1.09	1.11
13C-PCB-188	1.13	0.0566	5.02 %	1.16	1.08	1.05	1.16	1.20	1.12
PCB-189	1.12	0.0705	6.31 %	1.14	1.14	1.18	1.12	1.14	0.98
13C-PCB-189	0.94	0.0496	5.25 %	0.90	0.90	0.93	0.93	1.00	1.01
PCB-202	1.09	0.0745	6.84 %	1.22	1.09	1.07	1.08	1.09	0.98
13C-PCB-202	0.77	0.0126	1.63 %	0.76	0.77	0.79	0.76	0.78	0.77
13C-PCB-178	0.76	0.0192	2.52 %	0.74	0.76	0.78	0.74	0.76	0.79
13C-PCB-138	-	-	- %	-	-	-	-	-	-

PCB-205	1.04	0.0391	3.75	%	1.04	1.04	1.05	1.05	1.10	0.98
13C-PCB-205	1.32	0.0399	3.03	%	1.26	1.31	1.37	1.29	1.34	1.34
PCB-208	0.96	0.0305	3.17	%	0.97	0.94	1.01	0.94	0.98	0.94
13C-PCB-208	1.33	0.0373	2.81	%	1.37	1.28	1.34	1.34	1.36	1.29
PCB-206	0.97	0.0388	3.98	%	0.95	1.00	1.03	0.93	0.99	0.94
13C-PCB-206	0.94	0.0329	3.52	%	0.95	0.90	0.93	0.97	0.97	0.90
PCB-209	1.17	0.101	8.64	%	1.31	1.17	1.18	1.17	1.21	1.00
13C-PCB-209	1.04	0.0478	4.59	%	0.98	1.08	1.11	1.02	1.01	1.06
13C-PCB-194	-	-	-	%	-	-	-	-	-	-

Analyst: _____ Date: 4/5/18

Run #1 Filename 04APR18Z S: 1 Acquired: 4-APR-18 16:40:39 Cal: 1668FAL4-4-4-18
Client ID: ST040418Z0 Analyte: FAL ID: 1668 CS0 R170821A

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	0.20	1.20e+05	3.21	y	14:35	-	1.13	y
2	IS/RT	13C-PCB-1	100.00	5.32e+07	3.18	y	14:34	-	1.06	y
3	Unk	PCB-3	0.20	1.21e+05	3.00	y	17:01	-	1.18	y
4	IS/RT	13C-PCB-3	100.00	5.14e+07	3.22	y	17:00	-	1.02	y
5	Unk	PCB-4	0.20	7.75e+04	1.44	y	18:17	-	1.16	y
6	IS/RT	13C-PCB-4	100.00	3.33e+07	1.58	y	18:15	-	0.664	y
7	Unk	PCB-15	0.20	1.14e+05	1.40	y	23:48	-	1.09	y
8	IS/RT	13C-PCB-15	100.00	5.26e+07	1.62	y	23:47	-	1.05	y
9	Unk	PCB-19	0.20	6.44e+04	1.10	y	22:10	-	1.31	y
10	IS/RT	13C-PCB-19	100.00	2.46e+07	1.10	y	22:09	-	0.489	y
11	RS	13C-PCB-9	100.00	5.03e+07	1.62	y	19:56	5.03e+05	-	n
12	Unk	PCB-37	0.20	1.00e+05	1.12	y	30:26	-	1.23	y
13	IS	13C-PCB-37	100.00	4.07e+07	1.08	y	30:26	-	1.44	y
14	Unk	PCB-54	0.20	7.96e+04	0.76	y	25:43	-	1.19	y
15	IS/RT	13C-PCB-54	100.00	3.35e+07	0.81	y	25:41	-	1.19	y
16	Unk	PCB-104	0.20	5.53e+04	1.71	y	30:09	-	1.20	y
17	IS	13C-PCB-104	100.00	2.30e+07	1.62	y	30:08	-	0.816	y
18	C/Up	13C-PCB-28	100.00	4.47e+07	1.07	y	26:46	-	1.58	y
19	RS	13C-PCB-52	100.00	2.82e+07	0.79	y	29:01	2.82e+05	-	n
20	Unk	PCB-81	0.20	7.67e+04	0.68	y	36:13	-	1.21	y
21	IS	13C-PCB-81	100.00	3.17e+07	0.79	y	36:12	-	1.28	y
22	Unk	PCB-77	0.20	7.39e+04	0.72	y	36:46	-	1.08	y
23	IS/RT	13C-PCB-77	100.00	3.42e+07	0.79	y	36:45	-	1.38	y
24	Unk	PCB-155	0.20	5.21e+04	1.11	y	34:20	-	1.08	y
25	IS	13C-PCB-155	100.00	2.41e+07	1.26	y	34:17	-	0.969	y
26	C/Up	13C-PCB-111	100.00	3.04e+07	1.60	y	36:22	-	1.23	y
27	RS	13C-PCB-101	100.00	2.48e+07	1.59	y	34:44	2.48e+05	-	n
28	Unk	PCB-123	0.20	7.25e+04	1.32	y	38:26	-	1.20	y
29	IS	13C-PCB-123	100.00	3.03e+07	1.59	y	38:24	-	1.28	y
30	Unk	PCB-118	0.20	8.29e+04	1.40	y	38:36	-	1.26	y
31	IS	13C-PCB-118	100.00	3.28e+07	1.62	y	38:34	-	1.38	y
32	Unk	PCB-114	0.20	7.02e+04	1.51	y	39:12	-	1.12	y
33	IS	13C-PCB-114	100.00	3.14e+07	1.62	y	39:12	-	1.33	y
34	Unk	PCB-105	0.20	7.13e+04	1.57	y	40:01	-	1.12	y
35	IS	13C-PCB-105	100.00	3.17e+07	1.61	y	39:60	-	1.34	y
36	Unk	PCB-126	0.20	7.07e+04	1.40	y	42:08	-	1.20	y
37	IS	13C-PCB-126	100.00	2.94e+07	1.59	y	42:08	-	1.24	y
38	Unk	PCB-167	0.20	5.76e+04	1.33	y	43:30	-	1.00	y
39	IS	13C-PCB-167	100.00	2.87e+07	1.27	y	43:30	-	1.21	y
40	Unk	PCB-156	0.20	5.93e+04	1.14	y	44:45	-	1.08	y
41	IS	13C-PCB-156	100.00	2.75e+07	1.26	y	44:43	-	1.16	y
42	Unk	PCB-157	0.20	6.25e+04	1.39	y	44:59	-	1.08	y
43	IS	13C-PCB-157	100.00	2.88e+07	1.27	y	44:59	-	1.21	y
44	Unk	PCB-169	0.20	5.92e+04	1.37	y	46:51	-	1.14	y
45	IS	13C-PCB-169	100.00	2.58e+07	1.27	y	46:50	-	1.09	y
46	Unk	PCB-188	0.20	6.62e+04	1.14	y	39:50	-	1.20	y
47	IS	13C-PCB-188	100.00	2.75e+07	1.06	y	39:48	-	1.16	y
48	Unk	PCB-189	0.20	4.91e+04	0.95	y	48:30	-	1.14	y
49	IS	13C-PCB-189	100.00	2.14e+07	1.05	y	48:28	-	0.905	y
50	Unk	PCB-202	0.20	4.39e+04	0.77	y	44:56	-	1.22	y
51	IS	13C-PCB-202	100.00	1.81e+07	0.92	y	44:54	-	0.762	y
52	C/Up	13C-PCB-178	100.00	1.76e+07	1.05	y	42:26	-	0.744	y
53	RS	13C-PCB-138	100.00	2.37e+07	1.27	y	41:39	2.37e+05	-	n

54	Unk	PCB-205	0.20	5.42e+04	1.02	y	50:10	-	1.04	y
55	IS	13C-PCB-205	100.00	2.62e+07	0.91	y	50:08	-	1.26	y
56	Unk	PCB-208	0.20	5.50e+04	1.27	y	49:13	-	0.968	y
57	IS	13C-PCB-208	100.00	2.84e+07	0.80	y	49:13	-	1.37	y
58	Unk	PCB-206	0.20	3.77e+04	1.28	y	51:22	-	0.954	y
59	IS	13C-PCB-206	100.00	1.98e+07	0.79	y	51:20	-	0.952	y
60	Unk	PCB-209	0.20	5.36e+04	1.18	y	52:32	-	1.31	y
61	IS	13C-PCB-209	100.00	2.04e+07	1.18	y	52:31	-	0.982	y
62	RS	13C-PCB-194	100.00	2.08e+07	0.91	y	49:53	2.08e+05	-	n

Analyst: _____ Date: 4/5/18

Run #2 Filename 04APR18Z S: 2 Acquired: 4-APR-18 17:38:59 Cal: 1668FAL4-4-4-18
Client ID: ST040418Z1 Analyte: FAL ID: 1668 CS1 R170213A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	1.00	2.06e+05	3.14 y	14:36	-	1.08	y
2	IS/RT	13C-PCB-1	100.00	1.91e+07	3.21 y	14:35	-	1.07	y
3	Unk	PCB-3	1.00	2.06e+05	3.02 y	17:02	-	1.12	y
4	IS/RT	13C-PCB-3	100.00	1.84e+07	3.24 y	17:00	-	1.04	y
5	Unk	PCB-4	1.00	1.40e+05	1.40 y	18:17	-	1.19	y
6	IS/RT	13C-PCB-4	100.00	1.18e+07	1.61 y	18:16	-	0.666	y
7	Unk	PCB-15	1.00	2.06e+05	1.34 y	23:48	-	1.14	y
8	IS/RT	13C-PCB-15	100.00	1.80e+07	1.60 y	23:47	-	1.01	y
9	Unk	PCB-19	1.00	1.04e+05	1.09 y	22:09	-	1.26	y
10	IS/RT	13C-PCB-19	100.00	8.24e+06	1.10 y	22:09	-	0.464	y
11	RS	13C-PCB-9	100.00	1.77e+07	1.60 y	19:56	1.77e+05	-	n
12	Unk	PCB-37	1.00	1.72e+05	1.12 y	30:26	-	1.29	y
13	IS	13C-PCB-37	100.00	1.33e+07	1.08 y	30:26	-	1.39	y
14	Unk	PCB-54	1.00	1.28e+05	0.79 y	25:43	-	1.13	y
15	IS/RT	13C-PCB-54	100.00	1.13e+07	0.81 y	25:41	-	1.18	y
16	Unk	PCB-104	1.00	9.72e+04	1.56 y	30:09	-	1.31	y
17	IS	13C-PCB-104	100.00	7.41e+06	1.61 y	30:07	-	0.773	y
18	C/Up	13C-PCB-28	100.00	1.44e+07	1.08 y	26:46	-	1.50	y
19	RS	13C-PCB-52	100.00	9.59e+06	0.79 y	29:01	9.59e+04	-	n
20	Unk	PCB-81	1.00	1.29e+05	0.77 y	36:12	-	1.15	y
21	IS	13C-PCB-81	100.00	1.12e+07	0.79 y	36:11	-	1.36	y
22	Unk	PCB-77	1.00	1.22e+05	0.75 y	36:46	-	1.10	y
23	IS/RT	13C-PCB-77	100.00	1.10e+07	0.80 y	36:45	-	1.34	y
24	Unk	PCB-155	1.00	9.93e+04	1.19 y	34:18	-	1.16	y
25	IS	13C-PCB-155	100.00	8.54e+06	1.29 y	34:17	-	1.04	y
26	C/Up	13C-PCB-111	100.00	1.05e+07	1.61 y	36:21	-	1.27	y
27	RS	13C-PCB-101	100.00	8.24e+06	1.63 y	34:43	8.24e+04	-	n
28	Unk	PCB-123	1.00	1.25e+05	1.59 y	38:24	-	1.14	y
29	IS	13C-PCB-123	100.00	1.10e+07	1.58 y	38:24	-	1.38	y
30	Unk	PCB-118	1.00	1.27e+05	1.40 y	38:36	-	1.13	y
31	IS	13C-PCB-118	100.00	1.12e+07	1.62 y	38:34	-	1.41	y
32	Unk	PCB-114	1.00	1.28e+05	1.42 y	39:12	-	1.17	y
33	IS	13C-PCB-114	100.00	1.09e+07	1.58 y	39:10	-	1.38	y
34	Unk	PCB-105	1.00	1.19e+05	1.54 y	40:01	-	1.12	y
35	IS	13C-PCB-105	100.00	1.07e+07	1.61 y	39:60	-	1.34	y
36	Unk	PCB-126	1.00	1.12e+05	1.43 y	42:08	-	1.13	y
37	IS	13C-PCB-126	100.00	9.86e+06	1.62 y	42:06	-	1.24	y
38	Unk	PCB-167	1.00	1.03e+05	1.34 y	43:30	-	1.08	y
39	IS	13C-PCB-167	100.00	9.50e+06	1.27 y	43:29	-	1.20	y
40	Unk	PCB-156	1.00	9.49e+04	1.24 y	44:44	-	1.02	y
41	IS	13C-PCB-156	100.00	9.28e+06	1.26 y	44:43	-	1.17	y
42	Unk	PCB-157	1.00	9.85e+04	1.34 y	44:59	-	1.04	y
43	IS	13C-PCB-157	100.00	9.46e+06	1.26 y	44:58	-	1.19	y
44	Unk	PCB-169	1.00	9.48e+04	1.10 y	46:49	-	1.08	y
45	IS	13C-PCB-169	100.00	8.81e+06	1.26 y	46:49	-	1.11	y
46	Unk	PCB-188	1.00	1.00e+05	1.02 y	39:48	-	1.17	y
47	IS	13C-PCB-188	100.00	8.55e+06	1.06 y	39:46	-	1.08	y
48	Unk	PCB-189	1.00	8.09e+04	1.11 y	48:30	-	1.14	y
49	IS	13C-PCB-189	100.00	7.11e+06	1.08 y	48:28	-	0.897	y
50	Unk	PCB-202	1.00	6.70e+04	0.90 y	44:54	-	1.09	y
51	IS	13C-PCB-202	100.00	6.13e+06	0.93 y	44:54	-	0.772	y
52	C/Up	13C-PCB-178	100.00	6.03e+06	1.04 y	42:24	-	0.761	y
53	RS	13C-PCB-138	100.00	7.93e+06	1.27 y	41:38	7.93e+04	-	n

54	Unk	PCB-205	1.00	9.61e+04	0.83	y	50:08	-	1.04	y
55	IS	13C-PCB-205	100.00	9.27e+06	0.92	y	50:08	-	1.31	y
56	Unk	PCB-208	1.00	8.51e+04	1.47	y	49:13	-	0.940	y
57	IS	13C-PCB-208	100.00	9.06e+06	0.79	y	49:13	-	1.28	y
58	Unk	PCB-206	1.00	6.39e+04	1.45	y	51:20	-	1.00	y
59	IS	13C-PCB-206	100.00	6.37e+06	0.78	y	51:20	-	0.898	y
60	Unk	PCB-209	1.00	8.94e+04	1.00	y	52:32	-	1.17	y
61	IS	13C-PCB-209	100.00	7.63e+06	1.19	y	52:31	-	1.08	y
62	RS	13C-PCB-194	100.00	7.09e+06	0.92	y	49:53	7.09e+04	-	n

Analyst: [signature] Date: 4/5/18

Run #3 Filename 04APR18Z S: 3 Acquired: 4-APR-18 18:37:21 Cal: 1668FAL4-4-4-18
Client ID: ST040418Z2 Analyte: FAL ID: 1668 CS2 R170213B

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	5.00	9.82e+05	3.07	y	14:36	-	1.10	y
2	IS/RT	13C-PCB-1	100.00	1.78e+07	3.22	y	14:35	-	1.06	y
3	Unk	PCB-3	5.00	9.70e+05	3.04	y	17:01	-	1.12	y
4	IS/RT	13C-PCB-3	100.00	1.73e+07	3.23	y	17:01	-	1.03	y
5	Unk	PCB-4	5.00	6.46e+05	1.38	y	18:16	-	1.14	y
6	IS/RT	13C-PCB-4	100.00	1.13e+07	1.62	y	18:15	-	0.676	y
7	Unk	PCB-15	5.00	9.21e+05	1.46	y	23:48	-	1.09	y
8	IS/RT	13C-PCB-15	100.00	1.68e+07	1.62	y	23:46	-	1.00	y
9	Unk	PCB-19	5.00	4.66e+05	1.07	y	22:10	-	1.18	y
10	IS/RT	13C-PCB-19	100.00	7.89e+06	1.11	y	22:08	-	0.471	y
11	RS	13C-PCB-9	100.00	1.67e+07	1.63	y	19:56	1.67e+05	-	n
12	Unk	PCB-37	5.00	7.76e+05	1.10	y	30:26	-	1.25	y
13	IS	13C-PCB-37	100.00	1.24e+07	1.07	y	30:25	-	1.38	y
14	Unk	PCB-54	5.00	6.57e+05	0.83	y	25:42	-	1.19	y
15	IS/RT	13C-PCB-54	100.00	1.11e+07	0.80	y	25:41	-	1.22	y
16	Unk	PCB-104	5.00	4.55e+05	1.54	y	30:09	-	1.26	y
17	IS	13C-PCB-104	100.00	7.24e+06	1.62	y	30:07	-	0.801	y
18	C/Up	13C-PCB-28	100.00	1.49e+07	1.07	y	26:45	-	1.65	y
19	RS	13C-PCB-52	100.00	9.03e+06	0.81	y	29:02	9.03e+04	-	n
20	Unk	PCB-81	5.00	6.06e+05	0.82	y	36:13	-	1.13	y
21	IS	13C-PCB-81	100.00	1.07e+07	0.78	y	36:11	-	1.34	y
22	Unk	PCB-77	5.00	6.03e+05	0.82	y	36:45	-	1.13	y
23	IS/RT	13C-PCB-77	100.00	1.07e+07	0.81	y	36:45	-	1.34	y
24	Unk	PCB-155	5.00	4.86e+05	1.41	y	34:19	-	1.18	y
25	IS	13C-PCB-155	100.00	8.23e+06	1.30	y	34:18	-	1.04	y
26	C/Up	13C-PCB-111	100.00	1.03e+07	1.60	y	36:21	-	1.29	y
27	RS	13C-PCB-101	100.00	7.95e+06	1.59	y	34:43	7.95e+04	-	n
28	Unk	PCB-123	5.00	5.89e+05	1.58	y	38:25	-	1.14	y
29	IS	13C-PCB-123	100.00	1.04e+07	1.59	y	38:23	-	1.35	y
30	Unk	PCB-118	5.00	6.18e+05	1.52	y	38:35	-	1.15	y
31	IS	13C-PCB-118	100.00	1.08e+07	1.59	y	38:33	-	1.40	y
32	Unk	PCB-114	5.00	6.02e+05	1.55	y	39:13	-	1.17	y
33	IS	13C-PCB-114	100.00	1.03e+07	1.63	y	39:11	-	1.34	y
34	Unk	PCB-105	5.00	5.76e+05	1.49	y	40:00	-	1.11	y
35	IS	13C-PCB-105	100.00	1.04e+07	1.59	y	39:59	-	1.35	y
36	Unk	PCB-126	5.00	5.23e+05	1.57	y	42:07	-	1.08	y
37	IS	13C-PCB-126	100.00	9.69e+06	1.61	y	42:07	-	1.26	y
38	Unk	PCB-167	5.00	5.04e+05	1.21	y	43:29	-	1.06	y
39	IS	13C-PCB-167	100.00	9.51e+06	1.26	y	43:29	-	1.23	y
40	Unk	PCB-156	5.00	4.92e+05	1.31	y	44:43	-	1.09	y
41	IS	13C-PCB-156	100.00	9.06e+06	1.28	y	44:42	-	1.18	y
42	Unk	PCB-157	5.00	4.73e+05	1.25	y	44:58	-	1.03	y
43	IS	13C-PCB-157	100.00	9.20e+06	1.26	y	44:58	-	1.19	y
44	Unk	PCB-169	5.00	4.57e+05	1.20	y	46:50	-	1.06	y
45	IS	13C-PCB-169	100.00	8.59e+06	1.24	y	46:49	-	1.12	y
46	Unk	PCB-188	5.00	4.91e+05	1.12	y	39:49	-	1.22	y
47	IS	13C-PCB-188	100.00	8.07e+06	1.05	y	39:47	-	1.05	y
48	Unk	PCB-189	5.00	4.21e+05	1.06	y	48:29	-	1.18	y
49	IS	13C-PCB-189	100.00	7.14e+06	1.07	y	48:29	-	0.928	y
50	Unk	PCB-202	5.00	3.24e+05	0.87	y	44:55	-	1.07	y
51	IS	13C-PCB-202	100.00	6.07e+06	0.91	y	44:53	-	0.789	y
52	C/Up	13C-PCB-178	100.00	5.98e+06	1.08	y	42:25	-	0.777	y
53	RS	13C-PCB-138	100.00	7.70e+06	1.25	y	41:37	7.70e+04	-	n

54	Unk	PCB-205	5.00	4.93e+05	0.90 y	50:09	-	1.05	y	
55	IS	13C-PCB-205	100.00	9.40e+06	0.90 y	50:09	-	1.37	y	
56	Unk	PCB-208	5.00	4.66e+05	1.36 y	49:13	-	1.01	y	
57	IS	13C-PCB-208	100.00	9.18e+06	0.80 y	49:12	-	1.34	y	
58	Unk	PCB-206	5.00	3.29e+05	1.37 y	51:20	-	1.03	y	
59	IS	13C-PCB-206	100.00	6.38e+06	0.80 y	51:19	-	0.929	y	
60	Unk	PCB-209	5.00	4.50e+05	1.21 y	52:32	-	1.18	y	
61	IS	13C-PCB-209	100.00	7.62e+06	1.22 y	52:31	-	1.11	y	
62	RS	13C-PCB-194	100.00	6.87e+06	0.94 y	49:53	6.87e+04	-	n	

Analyst: [signature] Date: 4/5/18

Run #4 Filename 04APR18Z S: 4 Acquired: 4-APR-18 19:35:42 Cal: 1668FAL4-4-4-18
Client ID: ST040418Z3 Analyte: FAL ID: 1668 CS3 R170805A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	1.05e+07	3.19 y	14:36	-	1.08	y
2	IS/RT	13C-PCB-1	100.00	1.95e+07	3.23 y	14:35	-	1.05	y
3	Unk	PCB-3	50.00	1.05e+07	3.20 y	17:02	-	1.10	y
4	IS/RT	13C-PCB-3	100.00	1.90e+07	3.27 y	17:01	-	1.02	y
5	Unk	PCB-4	50.00	6.99e+06	1.57 y	18:17	-	1.12	y
6	IS/RT	13C-PCB-4	100.00	1.25e+07	1.63 y	18:15	-	0.673	y
7	Unk	PCB-15	50.00	1.03e+07	1.57 y	23:48	-	1.08	y
8	IS/RT	13C-PCB-15	100.00	1.91e+07	1.63 y	23:47	-	1.03	y
9	Unk	PCB-19	50.00	4.90e+06	1.07 y	22:10	-	1.21	y
10	IS/RT	13C-PCB-19	100.00	8.08e+06	1.10 y	22:09	-	0.435	y
11	RS	13C-PCB-9	100.00	1.86e+07	1.58 y	19:56	1.86e+05	-	n
12	Unk	PCB-37	50.00	8.71e+06	1.09 y	30:26	-	1.24	y
13	IS	13C-PCB-37	100.00	1.41e+07	1.07 y	30:25	-	1.35	y
14	Unk	PCB-54	50.00	6.75e+06	0.80 y	25:43	-	1.14	y
15	IS/RT	13C-PCB-54	100.00	1.19e+07	0.85 y	25:41	-	1.13	y
16	Unk	PCB-104	50.00	4.96e+06	1.61 y	30:08	-	1.16	y
17	IS	13C-PCB-104	100.00	8.58e+06	1.63 y	30:07	-	0.821	y
18	C/Up	13C-PCB-28	100.00	1.49e+07	1.07 y	26:45	-	1.43	y
19	RS	13C-PCB-52	100.00	1.04e+07	0.80 y	29:01	1.04e+05	-	n
20	Unk	PCB-81	50.00	7.34e+06	0.81 y	36:12	-	1.16	y
21	IS	13C-PCB-81	100.00	1.27e+07	0.78 y	36:11	-	1.39	y
22	Unk	PCB-77	50.00	6.77e+06	0.81 y	36:46	-	1.11	y
23	IS/RT	13C-PCB-77	100.00	1.22e+07	0.78 y	36:45	-	1.34	y
24	Unk	PCB-155	50.00	5.38e+06	1.27 y	34:18	-	1.14	y
25	IS	13C-PCB-155	100.00	9.41e+06	1.29 y	34:17	-	1.03	y
26	C/Up	13C-PCB-111	100.00	1.14e+07	1.58 y	36:21	-	1.24	y
27	RS	13C-PCB-101	100.00	9.14e+06	1.59 y	34:42	9.14e+04	-	n
28	Unk	PCB-123	50.00	6.46e+06	1.58 y	38:24	-	1.08	y
29	IS	13C-PCB-123	100.00	1.20e+07	1.61 y	38:23	-	1.32	y
30	Unk	PCB-118	50.00	7.16e+06	1.61 y	38:34	-	1.13	y
31	IS	13C-PCB-118	100.00	1.27e+07	1.62 y	38:34	-	1.40	y
32	Unk	PCB-114	50.00	6.65e+06	1.57 y	39:12	-	1.08	y
33	IS	13C-PCB-114	100.00	1.23e+07	1.62 y	39:10	-	1.35	y
34	Unk	PCB-105	50.00	6.73e+06	1.59 y	39:60	-	1.09	y
35	IS	13C-PCB-105	100.00	1.24e+07	1.63 y	39:60	-	1.36	y
36	Unk	PCB-126	50.00	6.24e+06	1.55 y	42:08	-	1.11	y
37	IS	13C-PCB-126	100.00	1.12e+07	1.61 y	42:07	-	1.24	y
38	Unk	PCB-167	50.00	5.70e+06	1.24 y	43:30	-	1.03	y
39	IS	13C-PCB-167	100.00	1.10e+07	1.26 y	43:29	-	1.21	y
40	Unk	PCB-156	50.00	5.76e+06	1.27 y	44:43	-	1.08	y
41	IS	13C-PCB-156	100.00	1.06e+07	1.28 y	44:43	-	1.17	y
42	Unk	PCB-157	50.00	5.80e+06	1.25 y	44:59	-	1.05	y
43	IS	13C-PCB-157	100.00	1.10e+07	1.25 y	44:58	-	1.22	y
44	Unk	PCB-169	50.00	5.39e+06	1.25 y	46:50	-	1.03	y
45	IS	13C-PCB-169	100.00	1.04e+07	1.30 y	46:48	-	1.15	y
46	Unk	PCB-188	50.00	5.63e+06	1.06 y	39:48	-	1.07	y
47	IS	13C-PCB-188	100.00	1.05e+07	1.07 y	39:47	-	1.16	y
48	Unk	PCB-189	50.00	4.72e+06	1.07 y	48:30	-	1.12	y
49	IS	13C-PCB-189	100.00	8.42e+06	1.07 y	48:28	-	0.926	y
50	Unk	PCB-202	50.00	3.73e+06	0.91 y	44:54	-	1.08	y
51	IS	13C-PCB-202	100.00	6.87e+06	0.89 y	44:54	-	0.756	y
52	C/Up	13C-PCB-178	100.00	6.74e+06	1.05 y	42:25	-	0.742	y
53	RS	13C-PCB-138	100.00	9.09e+06	1.25 y	41:37	9.09e+04	-	n

54	Unk	PCB-205	50.00	5.67e+06	0.93 y	50:08	-	1.05	y
55	IS	13C-PCB-205	100.00	1.08e+07	0.90 y	50:07	-	1.29	y
56	Unk	PCB-208	50.00	5.25e+06	1.38 y	49:13	-	0.936	y
57	IS	13C-PCB-208	100.00	1.12e+07	0.80 y	49:12	-	1.34	y
58	Unk	PCB-206	50.00	3.78e+06	1.33 y	51:20	-	0.934	y
59	IS	13C-PCB-206	100.00	8.10e+06	0.77 y	51:20	-	0.972	y
60	Unk	PCB-209	50.00	4.96e+06	1.16 y	52:31	-	1.17	y
61	IS	13C-PCB-209	100.00	8.49e+06	1.20 y	52:31	-	1.02	y
62	RS	13C-PCB-194	100.00	8.34e+06	0.92 y	49:53	8.34e+04	-	n

Analyst: _____ Date: 4/5/18

Run #5 Filename 04APR18Z S: 5 Acquired: 4-APR-18 20:34:03 Cal: 1668FAL4-4-4-18
Client ID: ST040418Z4 Analyte: FAL ID: 1668 CS4 R151116B

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	400.00	1.27e+08	3.15	y	14:34	-	1.10	y
2	IS/RT	13C-PCB-1	100.00	2.89e+07	3.18	y	14:34	-	1.02	y
3	Unk	PCB-3	400.00	1.30e+08	3.17	y	17:01	-	1.12	y
4	IS/RT	13C-PCB-3	100.00	2.88e+07	3.25	y	16:60	-	1.02	y
5	Unk	PCB-4	400.00	8.69e+07	1.55	y	18:17	-	1.12	y
6	IS/RT	13C-PCB-4	100.00	1.94e+07	1.60	y	18:15	-	0.688	y
7	Unk	PCB-15	400.00	1.34e+08	1.55	y	23:47	-	1.11	y
8	IS/RT	13C-PCB-15	100.00	3.00e+07	1.60	y	23:47	-	1.06	y
9	Unk	PCB-19	400.00	6.65e+07	1.07	y	22:10	-	1.22	y
10	IS/RT	13C-PCB-19	100.00	1.37e+07	1.12	y	22:09	-	0.485	y
11	RS	13C-PCB-9	100.00	2.82e+07	1.63	y	19:56	2.82e+05	-	n
12	Unk	PCB-37	400.00	1.11e+08	1.10	y	30:27	-	1.28	y
13	IS	13C-PCB-37	100.00	2.18e+07	1.09	y	30:26	-	1.40	y
14	Unk	PCB-54	400.00	8.58e+07	0.80	y	25:43	-	1.15	y
15	IS/RT	13C-PCB-54	100.00	1.86e+07	0.80	y	25:41	-	1.20	y
16	Unk	PCB-104	400.00	6.07e+07	1.59	y	30:09	-	1.21	y
17	IS	13C-PCB-104	100.00	1.25e+07	1.64	y	30:08	-	0.806	y
18	C/Up	13C-PCB-28	100.00	2.23e+07	1.05	y	26:45	-	1.43	y
19	RS	13C-PCB-52	100.00	1.55e+07	0.81	y	29:01	1.55e+05	-	n
20	Unk	PCB-81	400.00	9.11e+07	0.83	y	36:13	-	1.22	y
21	IS	13C-PCB-81	100.00	1.86e+07	0.79	y	36:12	-	1.37	y
22	Unk	PCB-77	400.00	9.27e+07	0.82	y	36:46	-	1.16	y
23	IS/RT	13C-PCB-77	100.00	2.01e+07	0.80	y	36:45	-	1.48	y
24	Unk	PCB-155	400.00	6.34e+07	1.26	y	34:18	-	1.15	y
25	IS	13C-PCB-155	100.00	1.37e+07	1.29	y	34:17	-	1.01	y
26	C/Up	13C-PCB-111	100.00	1.71e+07	1.60	y	36:21	-	1.27	y
27	RS	13C-PCB-101	100.00	1.35e+07	1.59	y	34:43	1.35e+05	-	n
28	Unk	PCB-123	400.00	8.30e+07	1.57	y	38:24	-	1.10	y
29	IS	13C-PCB-123	100.00	1.89e+07	1.60	y	38:24	-	1.44	y
30	Unk	PCB-118	400.00	9.23e+07	1.58	y	38:36	-	1.17	y
31	IS	13C-PCB-118	100.00	1.97e+07	1.62	y	38:34	-	1.51	y
32	Unk	PCB-114	400.00	8.49e+07	1.58	y	39:12	-	1.12	y
33	IS	13C-PCB-114	100.00	1.89e+07	1.61	y	39:10	-	1.44	y
34	Unk	PCB-105	400.00	8.56e+07	1.60	y	40:01	-	1.12	y
35	IS	13C-PCB-105	100.00	1.91e+07	1.61	y	39:60	-	1.46	y
36	Unk	PCB-126	400.00	8.00e+07	1.58	y	42:08	-	1.10	y
37	IS	13C-PCB-126	100.00	1.82e+07	1.64	y	42:06	-	1.39	y
38	Unk	PCB-167	400.00	7.31e+07	1.25	y	43:30	-	1.07	y
39	IS	13C-PCB-167	100.00	1.70e+07	1.26	y	43:29	-	1.30	y
40	Unk	PCB-156	400.00	7.37e+07	1.26	y	44:44	-	1.12	y
41	IS	13C-PCB-156	100.00	1.65e+07	1.29	y	44:43	-	1.26	y
42	Unk	PCB-157	400.00	7.66e+07	1.25	y	44:59	-	1.08	y
43	IS	13C-PCB-157	100.00	1.77e+07	1.29	y	44:58	-	1.35	y
44	Unk	PCB-169	400.00	7.08e+07	1.24	y	46:49	-	1.06	y
45	IS	13C-PCB-169	100.00	1.67e+07	1.27	y	46:49	-	1.28	y
46	Unk	PCB-188	400.00	6.83e+07	1.06	y	39:48	-	1.09	y
47	IS	13C-PCB-188	100.00	1.57e+07	1.06	y	39:46	-	1.20	y
48	Unk	PCB-189	400.00	5.97e+07	1.05	y	48:30	-	1.14	y
49	IS	13C-PCB-189	100.00	1.31e+07	1.08	y	48:28	-	1.00	y
50	Unk	PCB-202	400.00	4.48e+07	0.90	y	44:56	-	1.09	y
51	IS	13C-PCB-202	100.00	1.03e+07	0.90	y	44:54	-	0.784	y
52	C/Up	13C-PCB-178	100.00	9.89e+06	1.07	y	42:24	-	0.756	y
53	RS	13C-PCB-138	100.00	1.31e+07	1.25	y	41:38	1.31e+05	-	n

54	Unk	PCB-205	400.00	7.39e+07	0.91	y	50:08	-	1.10	y
55	IS	13C-PCB-205	100.00	1.68e+07	0.93	y	50:07	-	1.34	y
56	Unk	PCB-208	400.00	6.63e+07	1.33	y	49:13	-	0.977	y
57	IS	13C-PCB-208	100.00	1.70e+07	0.81	y	49:12	-	1.36	y
58	Unk	PCB-206	400.00	4.79e+07	1.36	y	51:21	-	0.988	y
59	IS	13C-PCB-206	100.00	1.21e+07	0.78	y	51:20	-	0.970	y
60	Unk	PCB-209	400.00	6.11e+07	1.19	y	52:31	-	1.21	y
61	IS	13C-PCB-209	100.00	1.26e+07	1.19	y	52:31	-	1.01	y
62	RS	13C-PCB-194	100.00	1.25e+07	0.92	y	49:53	1.25e+05	-	n

Analyst: [signature] Date: 4/5/18

Run #6 Filename 04APR18Z S: 6 Acquired: 4-APR-18 21:32:25 Cal: 1668FAL4-4-4-18
Client ID: ST040418Z5 Analyte: FAL ID: 1668 CS5 R130426C

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	2000.00	2.33e+08	3.10	y	14:36	-	1.15	y
2	IS/RT	13C-PCB-1	100.00	1.02e+07	3.15	y	14:35	-	1.13	y
3	Unk	PCB-3	2000.00	2.13e+08	3.15	y	17:02	-	1.13	y
4	IS/RT	13C-PCB-3	100.00	9.48e+06	3.17	y	17:01	-	1.06	y
5	Unk	PCB-4	2000.00	1.39e+08	1.54	y	18:17	-	1.13	y
6	IS/RT	13C-PCB-4	100.00	6.11e+06	1.54	y	18:16	-	0.680	y
7	Unk	PCB-15	2000.00	2.06e+08	1.55	y	23:49	-	1.10	y
8	IS/RT	13C-PCB-15	100.00	9.33e+06	1.59	y	23:48	-	1.04	y
9	Unk	PCB-19	2000.00	1.03e+08	1.06	y	22:11	-	1.20	y
10	IS/RT	13C-PCB-19	100.00	4.29e+06	1.14	y	22:10	-	0.478	y
11	RS	13C-PCB-9	100.00	8.98e+06	1.61	y	19:57	8.98e+04	-	n
12	Unk	PCB-37	2000.00	1.76e+08	1.08	y	30:28	-	1.25	y
13	IS	13C-PCB-37	100.00	7.06e+06	1.10	y	30:26	-	1.42	y
14	Unk	PCB-54	2000.00	1.35e+08	0.80	y	25:43	-	1.14	y
15	IS/RT	13C-PCB-54	100.00	5.90e+06	0.80	y	25:42	-	1.19	y
16	Unk	PCB-104	2000.00	9.28e+07	1.59	y	30:10	-	1.21	y
17	IS	13C-PCB-104	100.00	3.84e+06	1.63	y	30:09	-	0.773	y
18	C/Up	13C-PCB-28	100.00	7.83e+06	1.10	y	26:46	-	1.58	y
19	RS	13C-PCB-52	100.00	4.97e+06	0.80	y	29:03	4.97e+04	-	n
20	Unk	PCB-81	2000.00	1.38e+08	0.81	y	36:14	-	1.14	y
21	IS	13C-PCB-81	100.00	6.04e+06	0.81	y	36:13	-	1.48	y
22	Unk	PCB-77	2000.00	1.36e+08	0.80	y	36:47	-	1.07	y
23	IS/RT	13C-PCB-77	100.00	6.31e+06	0.78	y	36:45	-	1.55	y
24	Unk	PCB-155	2000.00	9.56e+07	1.27	y	34:20	-	1.14	y
25	IS	13C-PCB-155	100.00	4.21e+06	1.26	y	34:19	-	1.03	y
26	C/Up	13C-PCB-111	100.00	5.19e+06	1.58	y	36:23	-	1.27	y
27	RS	13C-PCB-101	100.00	4.07e+06	1.58	y	34:44	4.07e+04	-	n
28	Unk	PCB-123	2000.00	1.25e+08	1.58	y	38:26	-	1.09	y
29	IS	13C-PCB-123	100.00	5.73e+06	1.62	y	38:25	-	1.38	y
30	Unk	PCB-118	2000.00	1.33e+08	1.57	y	38:36	-	1.11	y
31	IS	13C-PCB-118	100.00	6.00e+06	1.62	y	38:35	-	1.44	y
32	Unk	PCB-114	2000.00	1.31e+08	1.57	y	39:13	-	1.09	y
33	IS	13C-PCB-114	100.00	6.01e+06	1.57	y	39:13	-	1.45	y
34	Unk	PCB-105	2000.00	1.29e+08	1.60	y	40:02	-	1.10	y
35	IS	13C-PCB-105	100.00	5.86e+06	1.62	y	40:00	-	1.41	y
36	Unk	PCB-126	2000.00	1.18e+08	1.60	y	42:09	-	1.05	y
37	IS	13C-PCB-126	100.00	5.60e+06	1.57	y	42:07	-	1.35	y
38	Unk	PCB-167	2000.00	1.08e+08	1.24	y	43:31	-	1.04	y
39	IS	13C-PCB-167	100.00	5.18e+06	1.27	y	43:29	-	1.25	y
40	Unk	PCB-156	2000.00	1.07e+08	1.25	y	44:45	-	1.07	y
41	IS	13C-PCB-156	100.00	5.00e+06	1.25	y	44:43	-	1.20	y
42	Unk	PCB-157	2000.00	1.10e+08	1.25	y	44:60	-	1.05	y
43	IS	13C-PCB-157	100.00	5.23e+06	1.25	y	44:58	-	1.26	y
44	Unk	PCB-169	2000.00	9.52e+07	1.24	y	46:50	-	0.997	y
45	IS	13C-PCB-169	100.00	4.77e+06	1.25	y	46:48	-	1.15	y
46	Unk	PCB-188	2000.00	1.03e+08	1.06	y	39:49	-	1.11	y
47	IS	13C-PCB-188	100.00	4.65e+06	1.07	y	39:47	-	1.12	y
48	Unk	PCB-189	2000.00	8.24e+07	1.05	y	48:31	-	0.978	y
49	IS	13C-PCB-189	100.00	4.21e+06	1.04	y	48:29	-	1.01	y
50	Unk	PCB-202	2000.00	6.33e+07	0.90	y	44:57	-	0.984	y
51	IS	13C-PCB-202	100.00	3.22e+06	0.89	y	44:55	-	0.774	y
52	C/Up	13C-PCB-178	100.00	3.29e+06	1.08	y	42:25	-	0.791	y
53	RS	13C-PCB-138	100.00	4.16e+06	1.30	y	41:39	4.16e+04	-	n

54	Unk	PCB-205	2000.00	1.03e+08	0.91	y	50:09	-	0.980	y	
55	IS	13C-PCB-205	100.00	5.24e+06	0.91	y	50:09	-	1.34	y	
56	Unk	PCB-208	2000.00	9.47e+07	1.37	y	49:13	-	0.940	y	
57	IS	13C-PCB-208	100.00	5.03e+06	0.80	y	49:12	-	1.29	y	
58	Unk	PCB-206	2000.00	6.60e+07	1.33	y	51:20	-	0.939	y	
59	IS	13C-PCB-206	100.00	3.51e+06	0.76	y	51:19	-	0.900	y	
60	Unk	PCB-209	2000.00	8.31e+07	1.20	y	52:32	-	1.00	y	
61	IS	13C-PCB-209	100.00	4.15e+06	1.20	y	52:31	-	1.06	y	
62	RS	13C-PCB-194	100.00	3.90e+06	0.94	y	49:53	3.90e+04	-	n	

Analyst: _____ Date: 4/5/18

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 04APR18Z Sam:4 Analysis Date: 4-APR-18 19:35:42

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.19	2.66-3.60	y	48.9	37.5 - 62.5
PCB-3	M/M+2	3.20	2.66-3.60	y	48.8	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	48.8	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	49.0	37.5 - 62.5
PCB-19	M/M+2	1.07	0.88-1.20	y	49.4	37.5 - 62.5
PCB-37	M/M+2	1.09	0.88-1.20	y	49.3	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	49.3	37.5 - 62.5
PCB-77	M/M+2	0.81	0.65-0.89	y	50.0	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	49.5	37.5 - 62.5
PCB-104	M+2/M+4	1.61	1.32-1.78	y	47.2	37.5 - 62.5
PCB-105	M+2/M+4	1.59	1.32-1.78	y	49.0	37.5 - 62.5
PCB-114	M+2/M+4	1.57	1.32-1.78	y	48.1	37.5 - 62.5
PCB-118	M+2/M+4	1.61	1.32-1.78	y	48.7	37.5 - 62.5
PCB-123	M+2/M+4	1.58	1.32-1.78	y	48.0	37.5 - 62.5
PCB-126	M+2/M+4	1.55	1.32-1.78	y	50.0	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	50.0	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	50.4	37.5 - 62.5
PCB-157	M+2/M+4	1.25	1.05-1.43	y	49.7	37.5 - 62.5
PCB-167	M+2/M+4	1.24	1.05-1.43	y	49.3	37.5 - 62.5
PCB-169	M+2/M+4	1.25	1.05-1.43	y	48.7	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	46.8	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	50.2	37.5 - 62.5
PCB-202	M+2/M+4	0.91	0.76-1.02	y	49.8	37.5 - 62.5
PCB-205	M+2/M+4	0.93	0.76-1.02	y	50.5	37.5 - 62.5
PCB-206	M+4/M+6	1.33	1.13-1.53	y	47.9	37.5 - 62.5
PCB-208	M+4/M+6	1.38	1.13-1.53	y	48.6	37.5 - 62.5
PCB-209	M+4/M+6	1.16	0.99-1.33	y	49.7	37.5 - 62.5

Analyst: _____ Date: 4/5/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 04APR18Z Sam:4 Analysis Date: 4-APR-18 19:35:42

	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	3.23	2.66-3.60	y	98.2	50.0 - 145
13C-PCB-3	M/M+2	3.27	2.66-3.60	y	99.2	50.0 - 145
13C-PCB-4	M/M+2	1.63	1.33-1.79	y	99.8	50.0 - 145
13C-PCB-15	M/M+2	1.63	1.33-1.79	y	99.7	50.0 - 145
13C-PCB-19	M/M+2	1.10	0.88-1.20	y	92.5	50.0 - 145
13C-PCB-37	M/M+2	1.07	0.88-1.20	y	96.4	50.0 - 145
13C-PCB-54	M/M+2	0.85	0.65-0.89	y	95.7	50.0 - 145
13C-PCB-77	M/M+2	0.78	0.65-0.89	y	95.3	50.0 - 145
13C-PCB-81	M/M+2	0.78	0.65-0.89	y	101	50.0 - 145
13C-PCB-104	M+2/M+4	1.63	1.32-1.78	y	103	50.0 - 145
13C-PCB-105	M+2/M+4	1.63	1.32-1.78	y	98.9	50.0 - 145
13C-PCB-114	M+2/M+4	1.62	1.32-1.78	y	98.1	50.0 - 145
13C-PCB-118	M+2/M+4	1.62	1.32-1.78	y	98.1	50.0 - 145
13C-PCB-123	M+2/M+4	1.61	1.32-1.78	y	97.2	50.0 - 145
13C-PCB-126	M+2/M+4	1.61	1.32-1.78	y	96.1	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	101	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	98.3	50.0 - 145
13C-PCB-157	M+2/M+4	1.25	1.05-1.43	y	98.3	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	98.3	50.0 - 145
13C-PCB-169	M+2/M+4	1.30	1.05-1.43	y	99.9	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	103	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	98.0	50.0 - 145
13C-PCB-202	M+2/M+4	0.89	0.76-1.02	y	97.8	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	97.9	50.0 - 145
13C-PCB-206	M+2/M+4	0.77	0.65-0.89	y	104	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	101	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	97.5	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	93.3	65.0 - 135
13C-PCB-111	M+2/M+4	1.58	1.32-1.78	y	98.4	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	97.4	75.0 - 125

Analyst: [signature] Date: 4/5/18

FAL ID: ST040418Z3 Filename: 04APR18Z Sam:4 Acquired: 4-APR-18 19:35:42 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 R170805A 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	1.05e+07	3.19 y	14:36	1.11	48.9		2.50	-	-	*	-
13C-PCB-1	1.95e+07	3.23 y	14:35	1.07	98.2		2.50				98.2
PCB-3	1.05e+07	3.20 y	17:02	1.13	48.8		2.50	-	-	*	-
13C-PCB-3	1.90e+07	3.27 y	17:01	1.03	99.2		2.50				99.2
PCB-4	6.99e+06	1.57 y	18:17	1.14	48.8		2.50	-	-	*	-
13C-PCB-4	1.25e+07	1.63 y	18:15	0.67	99.8		2.50				99.8
PCB-15	1.03e+07	1.57 y	23:48	1.10	49.0		2.50	-	-	*	-
13C-PCB-15	1.91e+07	1.63 y	23:47	1.03	99.7		2.50				99.7
PCB-19	4.90e+06	1.07 y	22:10	1.23	49.4		2.50	-	-	*	-
13C-PCB-19	8.08e+06	1.10 y	22:09	0.47	92.5		2.50				92.5
13C-PCB-9	1.86e+07	1.58 y	19:56	-	79.3		2.50				
PCB-37	8.71e+06	1.09 y	30:26	1.26	49.3		2.50	-	-	*	-
13C-PCB-37	1.41e+07	1.07 y	30:25	1.40	96.4		2.50				96.4
PCB-54	6.75e+06	0.80 y	25:43	1.16	49.3		2.50	-	-	*	-
13C-PCB-54	1.19e+07	0.85 y	25:41	1.19	95.7		2.50				95.7
PCB-104	4.96e+06	1.61 y	30:08	1.22	47.2		2.50	-	-	*	-
13C-PCB-104	8.58e+06	1.63 y	30:07	0.80	103		2.50				103
13C-PCB-28	1.49e+07	1.07 y	26:45	1.53	93.3		2.50				93.3
13C-PCB-52	1.04e+07	0.80 y	29:01	-	80.6		2.50				
PCB-81	7.34e+06	0.81 y	36:12	1.17	49.5		2.50	-	-	*	-
13C-PCB-81	1.27e+07	0.78 y	36:11	1.37	101		2.50				101
PCB-77	6.77e+06	0.81 y	36:46	1.11	50.0		2.50	-	-	*	-
13C-PCB-77	1.22e+07	0.78 y	36:45	1.41	95.3		2.50				95.3
PCB-155	5.38e+06	1.27 y	34:18	1.14	50.0		2.50	-	-	*	-
13C-PCB-155	9.41e+06	1.29 y	34:17	1.02	101		2.50				101
13C-PCB-111	1.14e+07	1.58 y	36:21	1.26	98.4		2.50				98.4
13C-PCB-101	9.14e+06	1.59 y	34:42	-	80.9		2.50				
PCB-123	6.46e+06	1.58 y	38:24	1.12	48.0		2.50	-	-	*	-
13C-PCB-123	1.20e+07	1.61 y	38:23	1.36	97.2		2.50				97.2
PCB-118	7.16e+06	1.61 y	38:34	1.16	48.7		2.50	-	-	*	-
13C-PCB-118	1.27e+07	1.62 y	38:34	1.42	98.1		2.50				98.1
PCB-114	6.65e+06	1.57 y	39:12	1.13	48.1		2.50	-	-	*	-
13C-PCB-114	1.23e+07	1.62 y	39:10	1.38	98.1		2.50				98.1
PCB-105	6.73e+06	1.59 y	39:60	1.11	49.0		2.50	-	-	*	-
13C-PCB-105	1.24e+07	1.63 y	39:60	1.38	98.9		2.50				98.9
PCB-126	6.24e+06	1.55 y	42:08	1.11	50.0		2.50	-	-	*	-
13C-PCB-126	1.12e+07	1.61 y	42:07	1.29	96.1		2.50				96.1
PCB-167	5.70e+06	1.24 y	43:30	1.05	49.3		2.50	-	-	*	-
13C-PCB-167	1.10e+07	1.26 y	43:29	1.23	98.3		2.50				98.3
PCB-156	5.76e+06	1.27 y	44:43	1.08	50.4		2.50	-	-	*	-
13C-PCB-156	1.06e+07	1.28 y	44:43	1.19	98.3		2.50				98.3
PCB-157	5.80e+06	1.25 y	44:59	1.06	49.7		2.50	-	-	*	-
13C-PCB-157	1.10e+07	1.25 y	44:58	1.24	98.3		2.50				98.3
PCB-169	5.39e+06	1.25 y	46:50	1.06	48.7		2.50	-	-	*	-
13C-PCB-169	1.04e+07	1.30 y	46:48	1.15	99.9		2.50				99.9
PCB-188	5.63e+06	1.06 y	39:48	1.14	46.8		2.50	-	-	*	-
13C-PCB-188	1.05e+07	1.07 y	39:47	1.13	103		2.50				103
PCB-189	4.72e+06	1.07 y	48:30	1.12	50.2		2.50	-	-	*	-
13C-PCB-189	8.42e+06	1.07 y	48:28	0.94	98.0		2.50				98.0
PCB-202	3.73e+06	0.91 y	44:54	1.09	49.8		2.50	-	-	*	-
13C-PCB-202	6.87e+06	0.89 y	44:54	0.77	97.8		2.50				97.8
13C-PCB-178	6.74e+06	1.05 y	42:25	0.76	97.4		2.50				97.4
13C-PCB-138	9.09e+06	1.25 y	41:37	-	83.0		2.50				

FAL ID: ST040418Z3 Filename: 04APR18Z Sam:4 Acquired: 4-APR-18 19:35:42 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 R170805A ConCal: NA EndCal: NA
Results: GC Column: DB1MS Amount: 1.000

PCB-205	5.67e+06	0.93	y	50:08	1.04	50.5	2.50	-	-	*	-
13C-PCB-205	1.08e+07	0.90	y	50:07	1.32	97.9	2.50				97.9
PCB-208	5.25e+06	1.38	y	49:13	0.96	48.6	2.50	-	-	*	-
13C-PCB-208	1.12e+07	0.80	y	49:12	1.33	101	2.50				101
PCB-206	3.78e+06	1.33	y	51:20	0.97	47.9	2.50	-	-	*	-
13C-PCB-206	8.10e+06	0.77	y	51:20	0.94	104	2.50				104
PCB-209	4.96e+06	1.16	y	52:31	1.17	49.7	2.50	-	-	*	-
13C-PCB-209	8.49e+06	1.20	y	52:31	1.04	97.5	2.50				97.5
13C-PCB-194	8.34e+06	0.92	y	49:53	-	84.2	2.50				

Analyst: _____ Date: 4/5/18

Frontier Analytical Laboratory - Acquisition Log

Run Name:04APR18Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

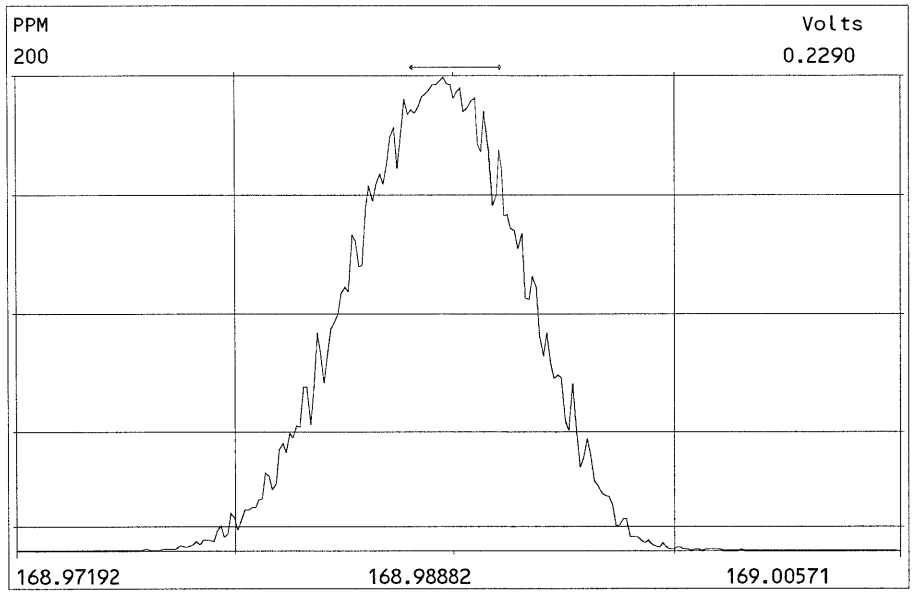
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
04APR18Z	1	ST040418Z0	1668 CS0 R170821A	4-APR-18 16:40:39	NA	NA	BS
04APR18Z	2	ST040418Z1	1668 CS1 R170213A	4-APR-18 17:38:59	NA	NA	BS
04APR18Z	3	ST040418Z2	1668 CS2 R170213B	4-APR-18 18:37:21	NA	NA	BS
04APR18Z	4	ST040418Z3	1668 CS3 R170805A	4-APR-18 19:35:42	NA	NA	BS
04APR18Z	5	ST040418Z4	1668 CS4 R151116B	4-APR-18 20:34:03	NA	NA	BS
04APR18Z	6	ST040418Z5	1668 CS5 R130426C	4-APR-18 21:32:25	NA	NA	BS
04APR18Z	7	SB040418Z1	Solvent Blank	4-APR-18 22:30:46	ST040418Z3	ST040418Z6	BS
04APR18Z	8	SS040418Z1	Daily 209 170620B	4-APR-18 23:29:08	ST040418Z3	ST040418Z6	BS
04APR18Z	9	SS040418Z2	2nd Source 170815A	5-APR-18 00:27:54	ST040418Z3	ST040418Z6	BS
04APR18Z	10	SB040418Z2	Solvent Blank	5-APR-18 01:26:41	ST040418Z3	ST040418Z6	BS
04APR18Z	11	11360-001-0001-SA	Effluent #030818 Eg	5-APR-18 02:25:02	ST040418Z3	ST040418Z6	BS
04APR18Z	12	11361-001-0001-SA	Effluent (E001-D)	5-APR-18 03:23:23	ST040418Z3	ST040418Z6	BS
04APR18Z	13	11373-001-0001-SA	L220289-1	5-APR-18 04:21:45	ST040418Z3	ST040418Z6	BS
04APR18Z	14	11348-001-0001-SA	MDL1	5-APR-18 05:20:06	ST040418Z3	ST040418Z6	BS
04APR18Z	15	11348-002-0001-SA	MDL2	5-APR-18 06:18:29	ST040418Z3	ST040418Z6	BS
04APR18Z	16	ST040418Z6	1668 CS3 R170805A	5-APR-18 07:16:50	ST040418Z3	ST040418Z6	BS

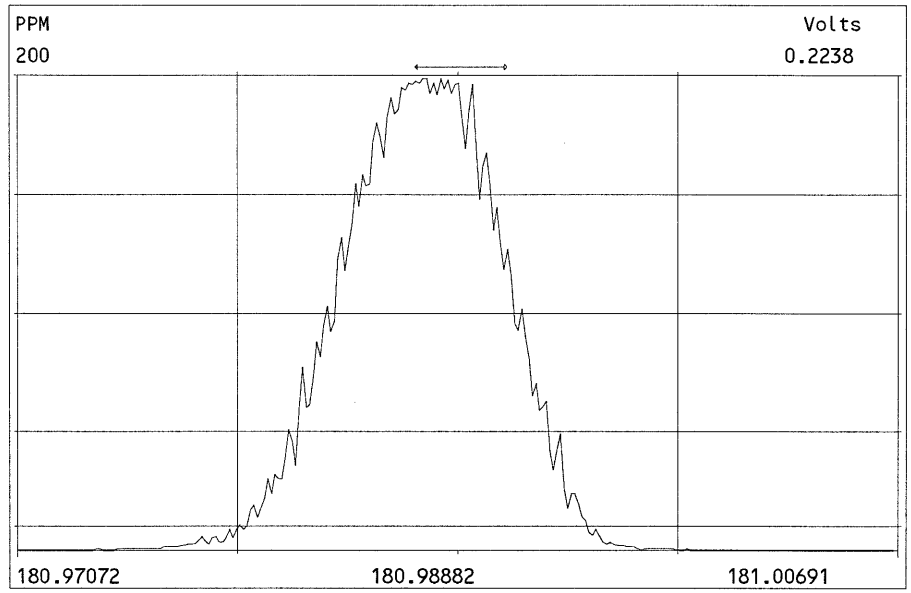
B 4/5/18

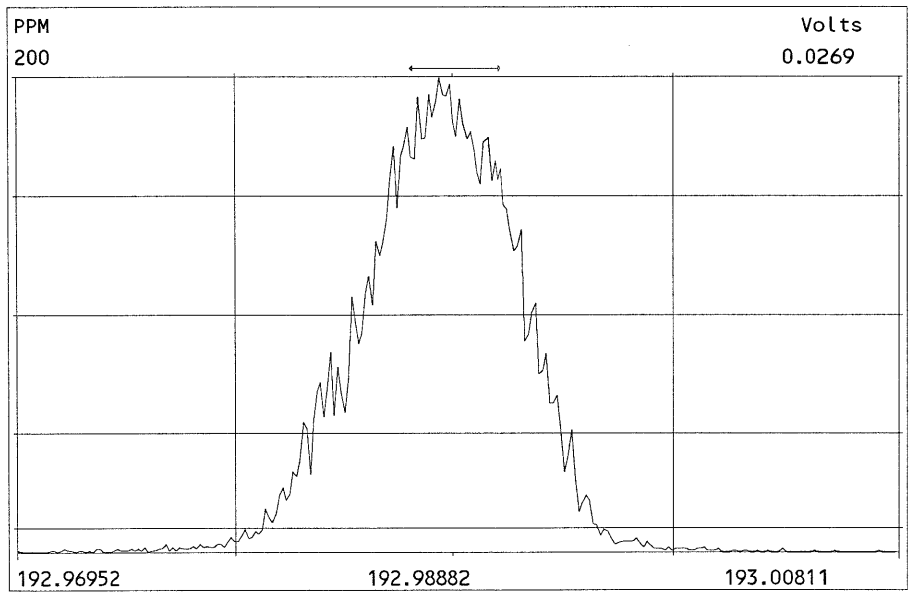
Data Backed Up:_____

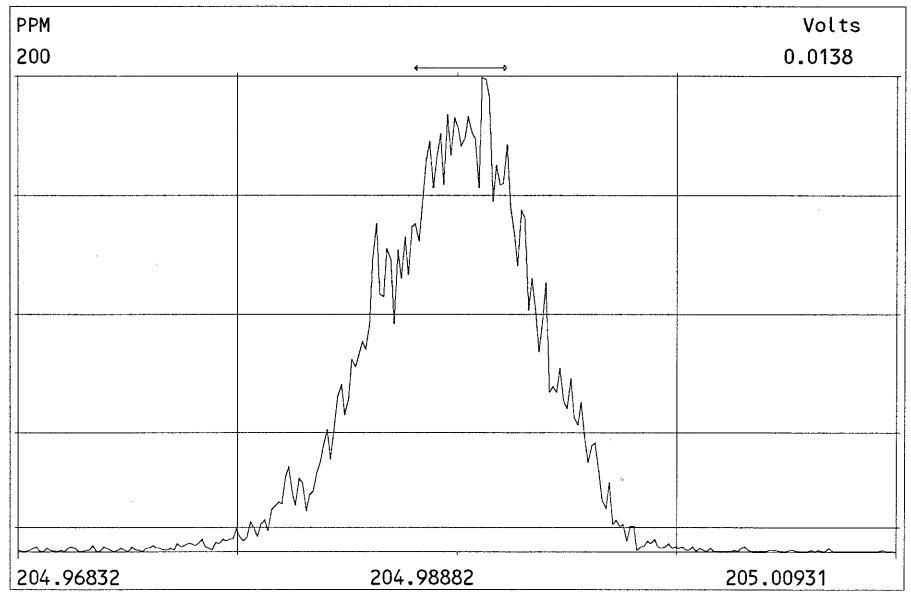
Date:_____

Peak Locate Examination: 4-APR-2018:16:38 File:04APR18Z
Experiment:1668PCB Function:1 Reference:PFK

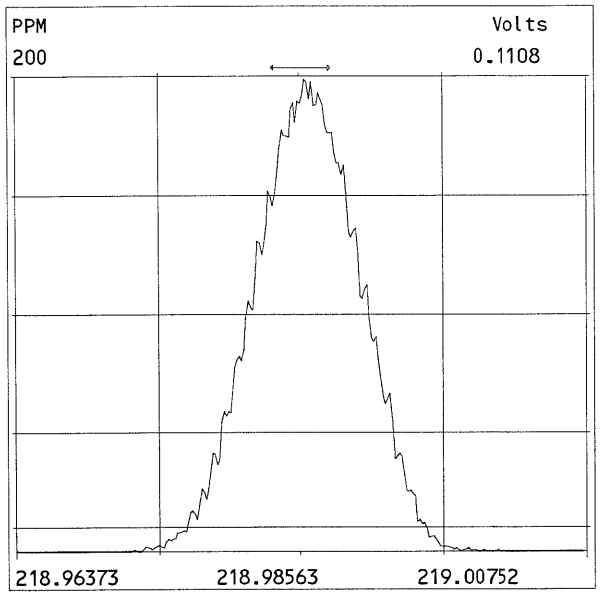


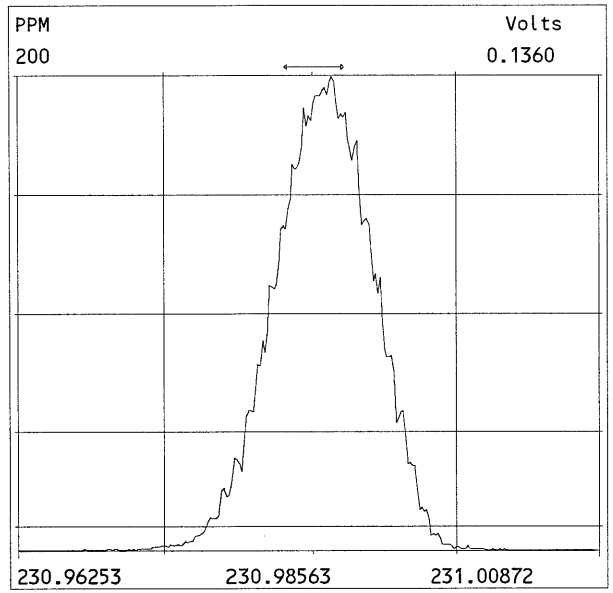


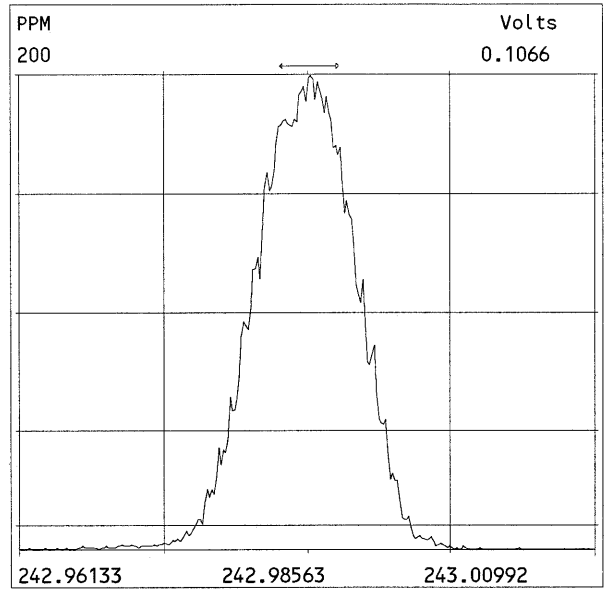


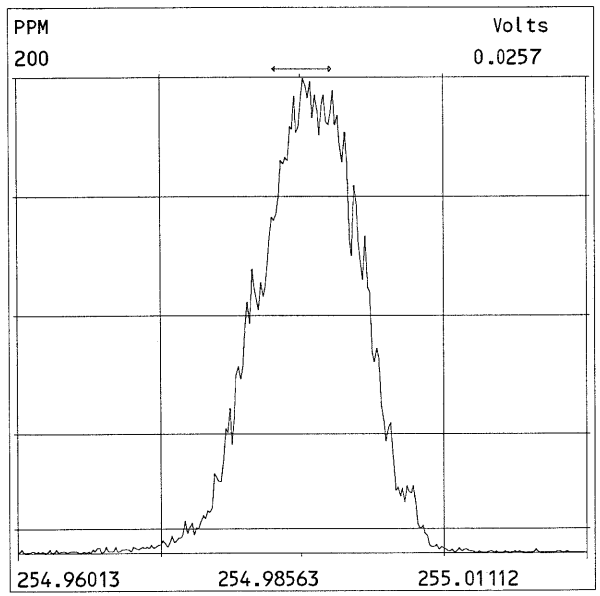


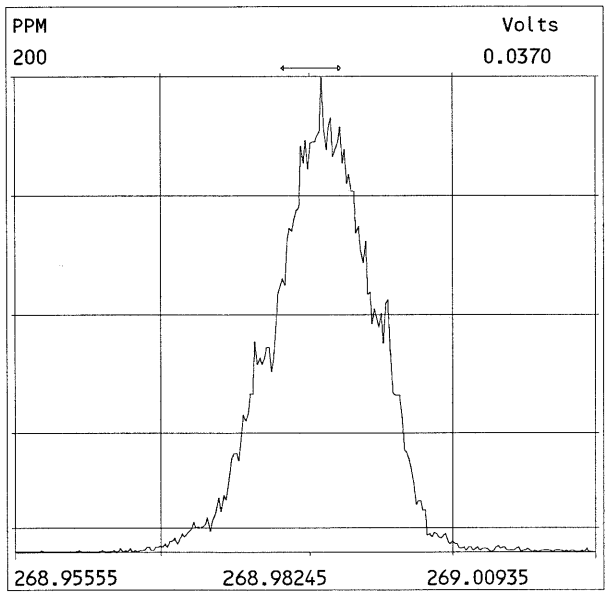
Peak Locate Examination: 4-APR-2018:16:38 File:04APR18Z
Experiment:1668PCB Function:2 Reference:PFK

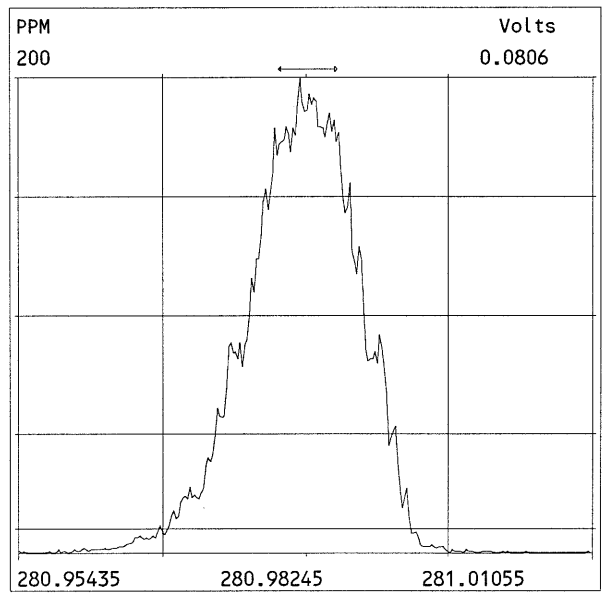




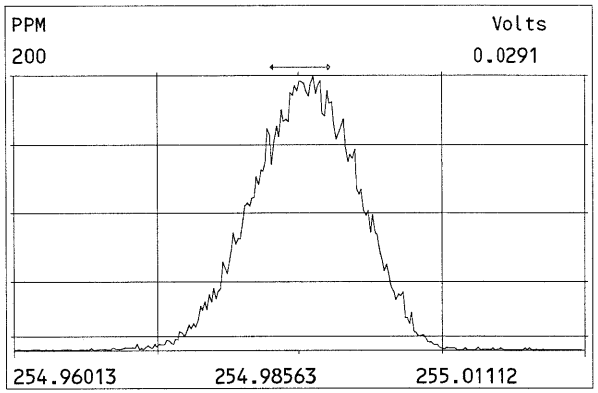


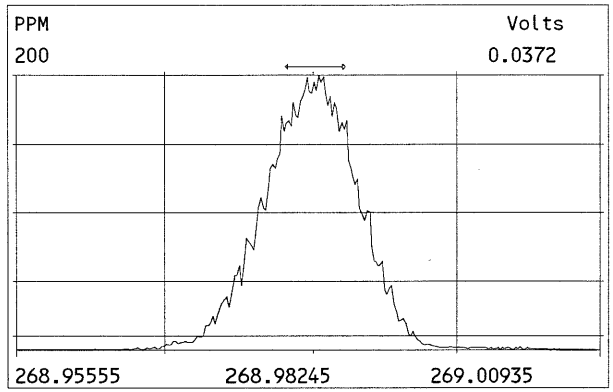


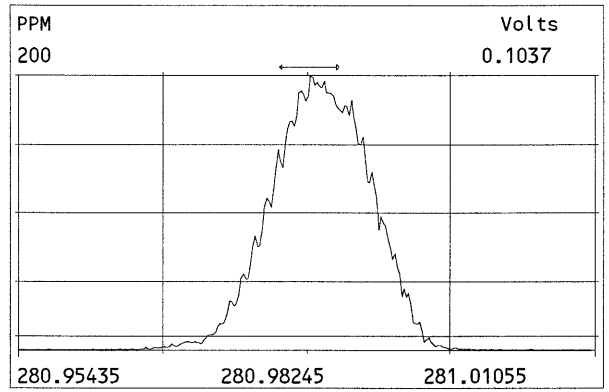


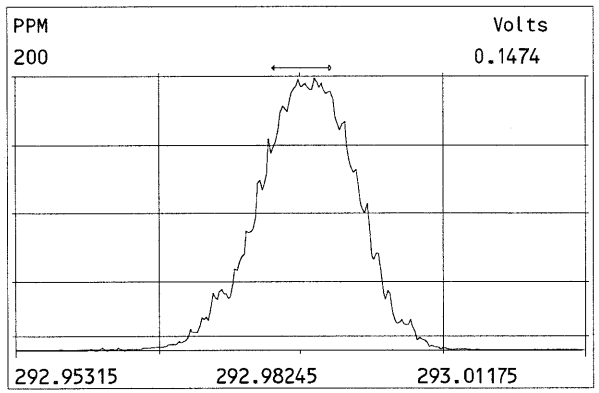


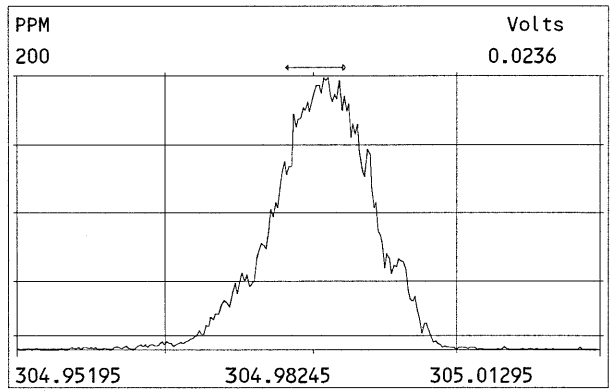
Peak Locate Examination: 4-APR-2018:16:38 File:04APR18Z
Experiment:1668PCB Function:3 Reference:PFK

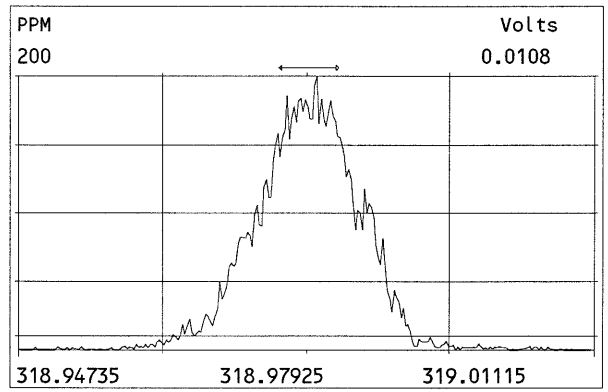


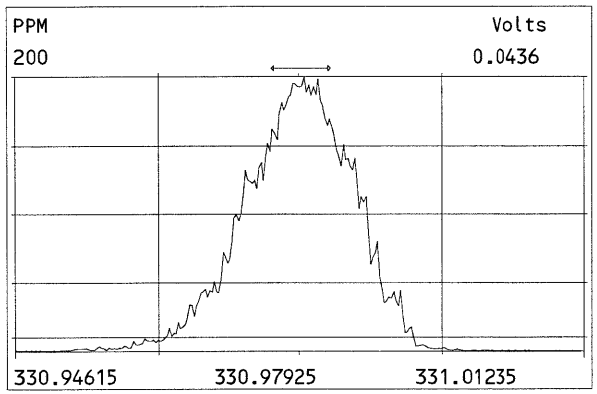


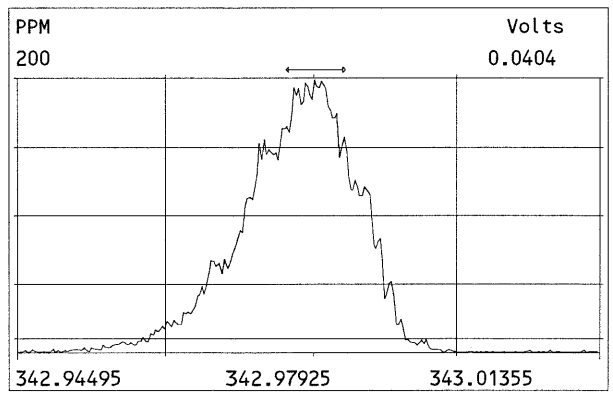




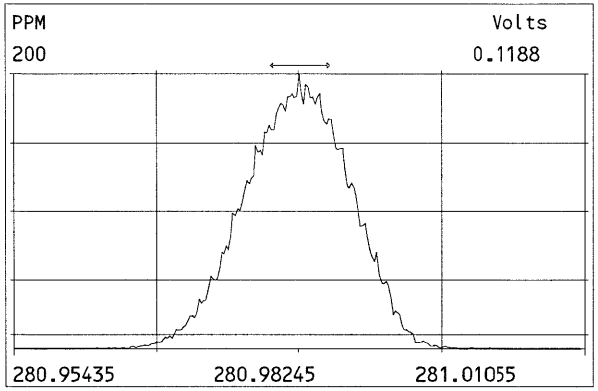


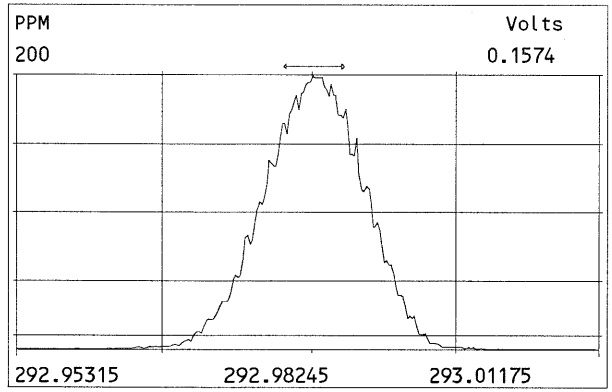


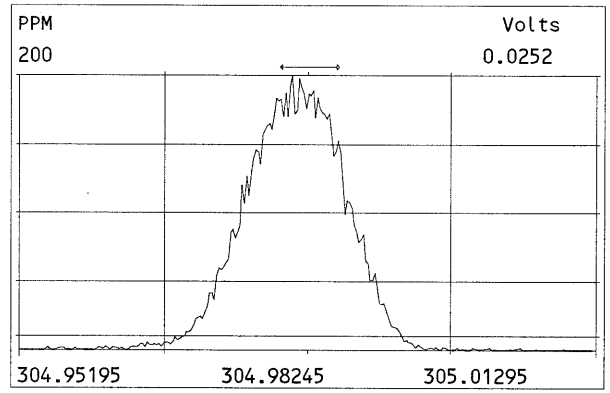


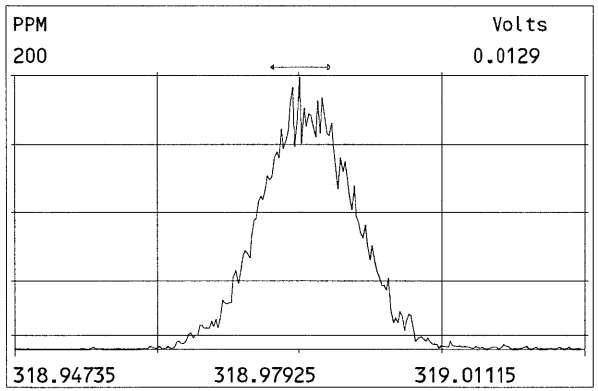


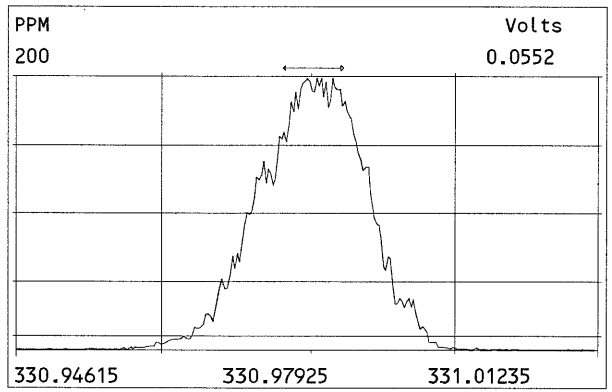
Peak Locate Examination: 4-APR-2018:16:39 File:04APR18Z
Experiment:1668PCB Function:4 Reference:PFK

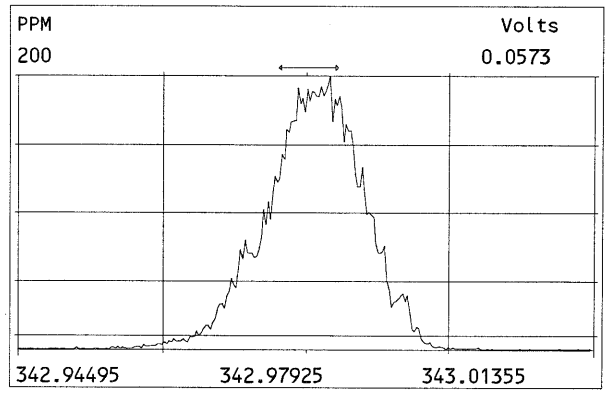


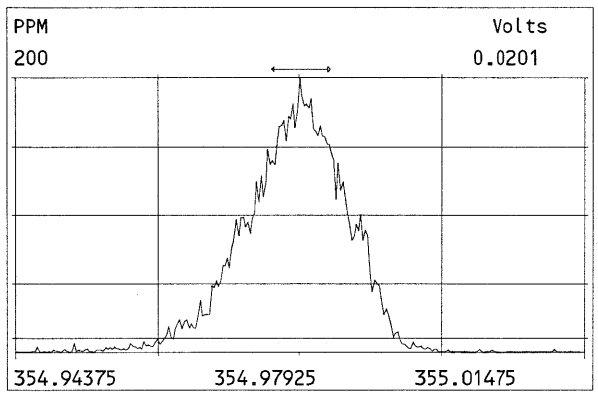


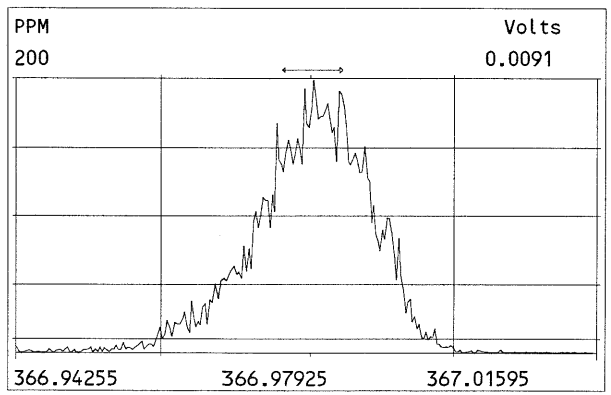


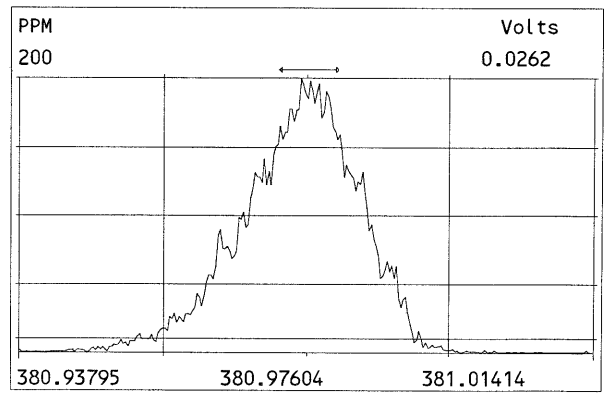




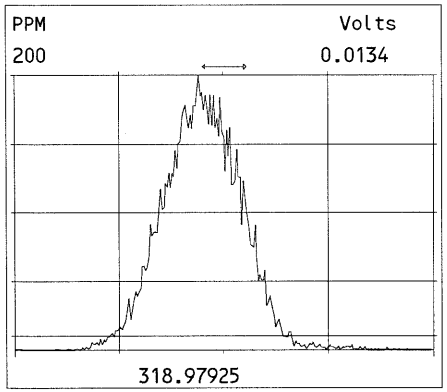


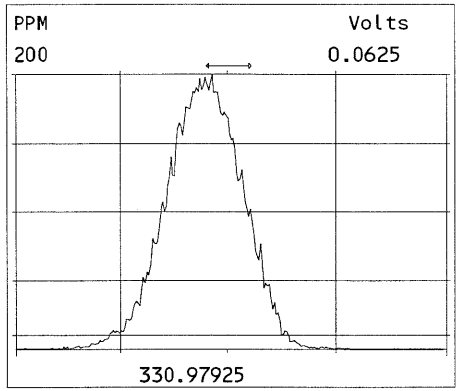


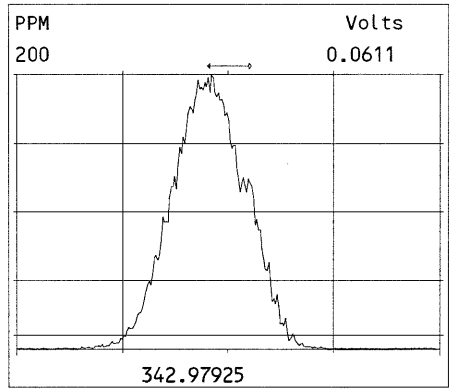


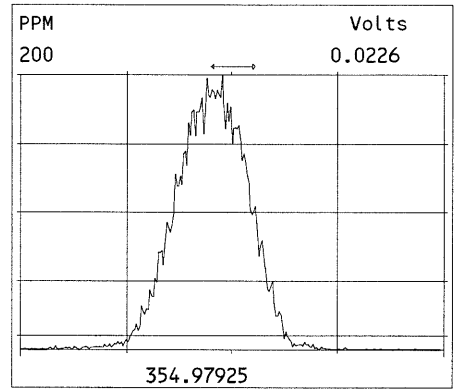


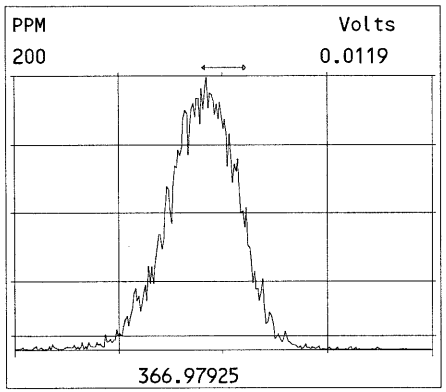
Peak Locate Examination: 4-APR-2018:16:39 File:04APR18Z
Experiment:1668PCB Function:5 Reference:PFK

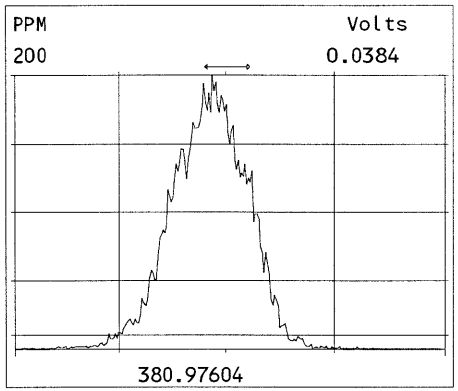


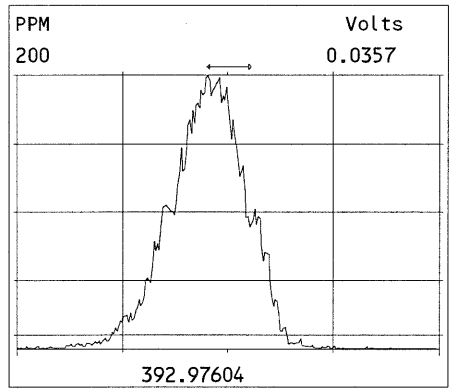


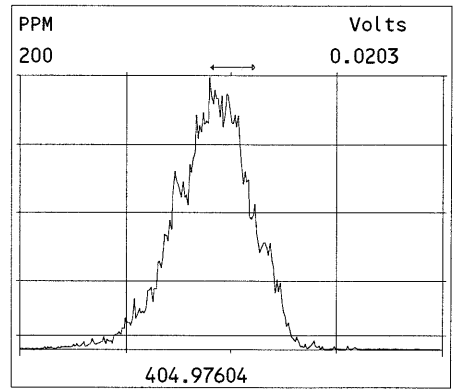


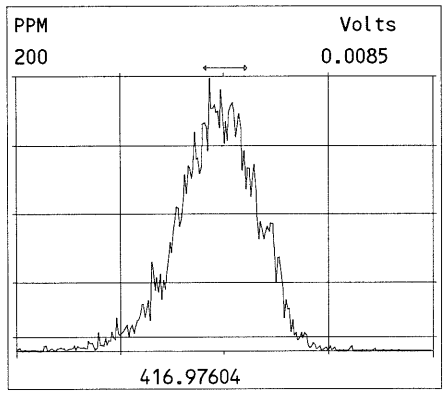


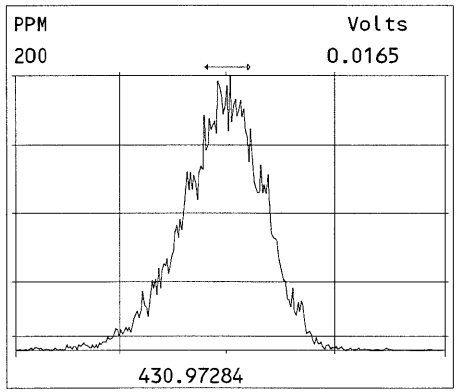


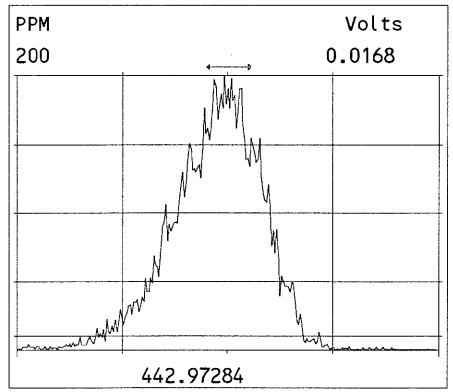




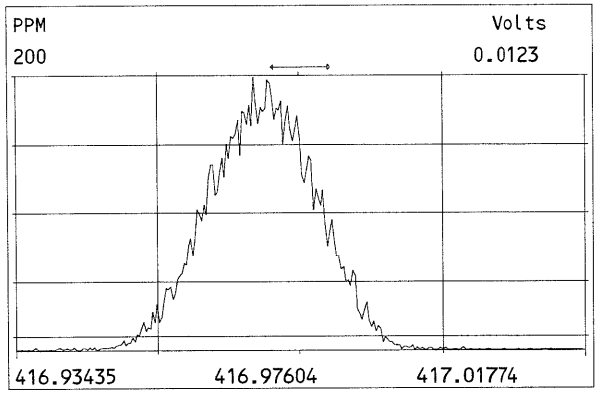


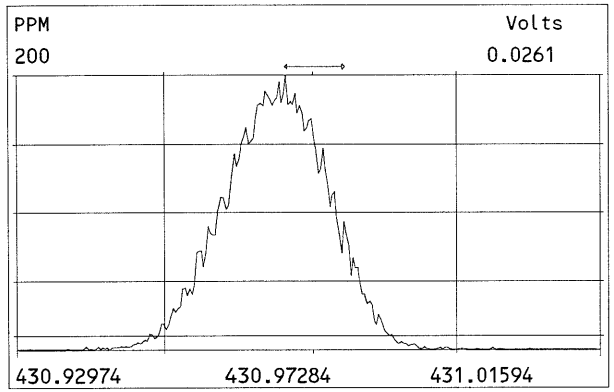


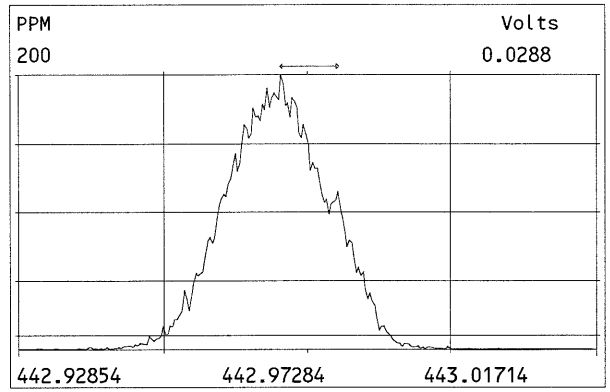


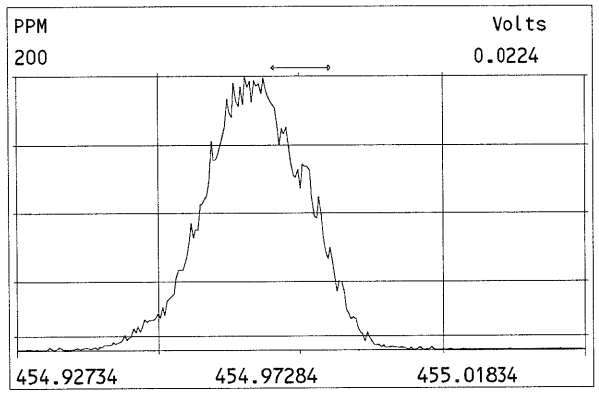


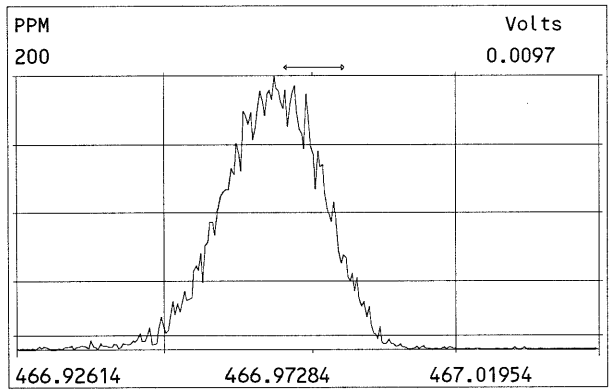
Peak Locate Examination: 4-APR-2018:16:40 File:04APR18Z
Experiment:1668PCB Function:6 Reference:PFK

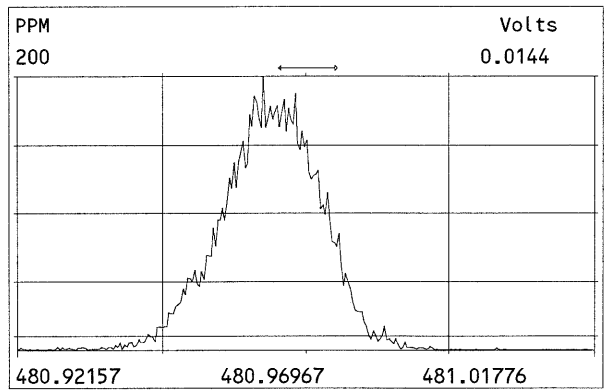


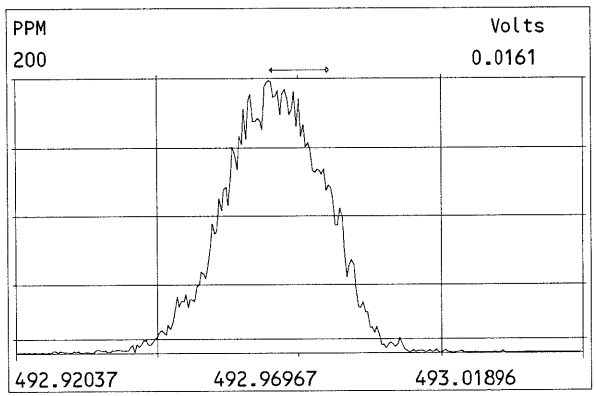


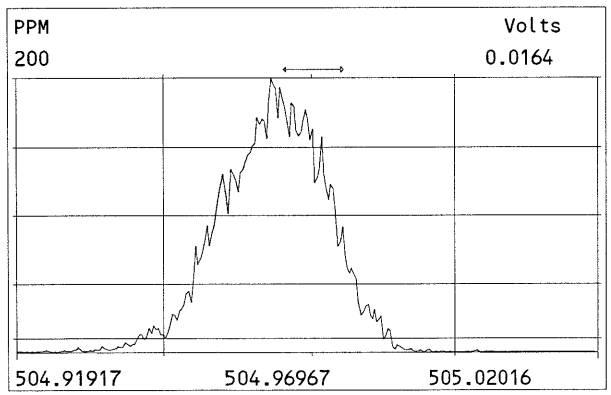


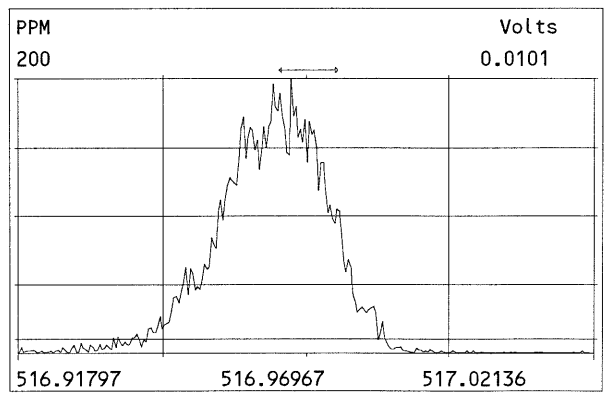




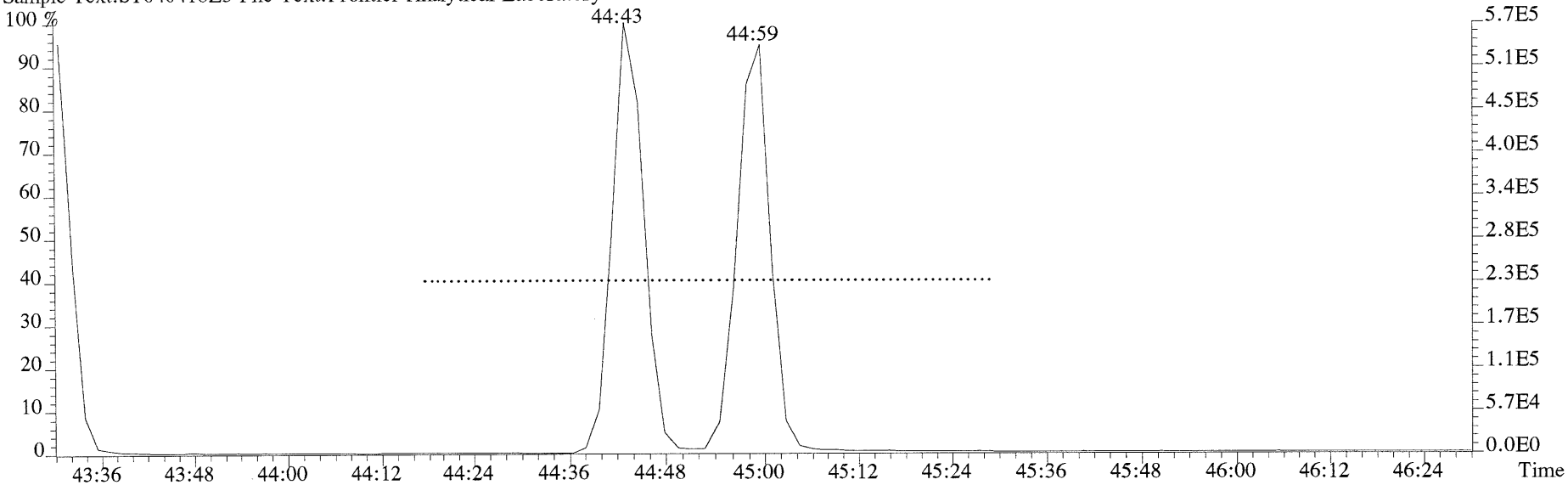








File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 Exp:1668PCB
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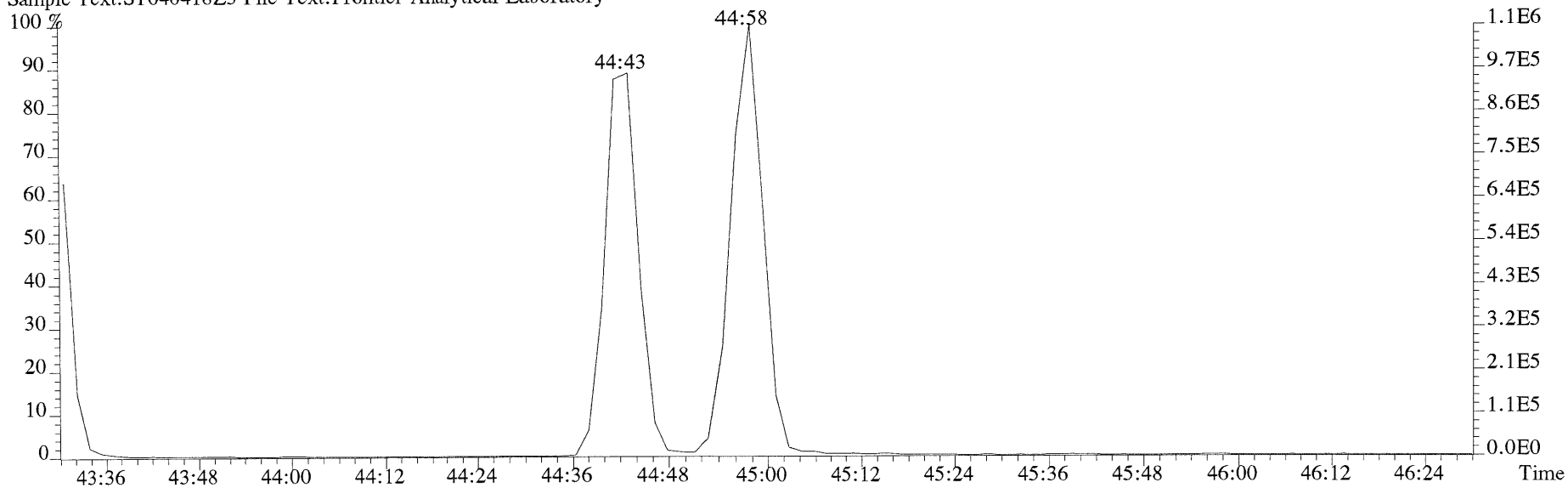
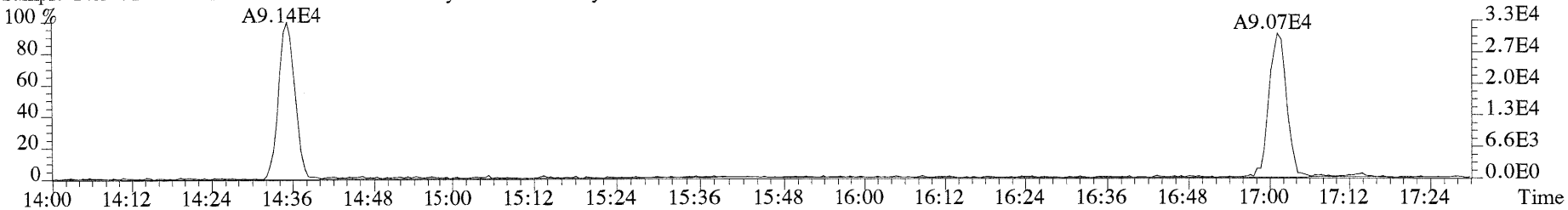
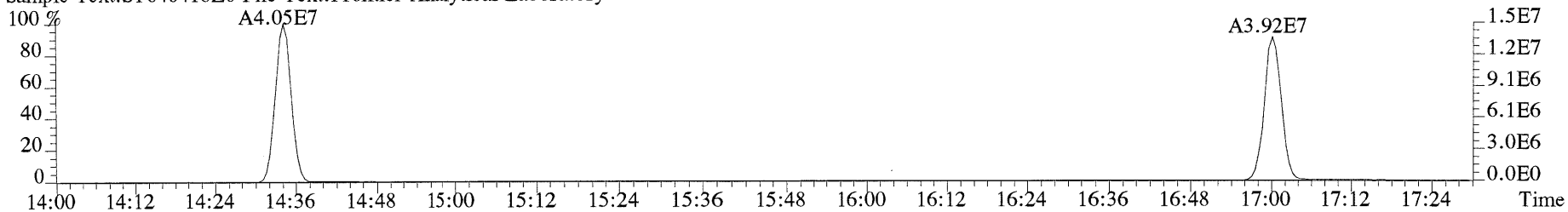


File:04APR18Z #1-784 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory

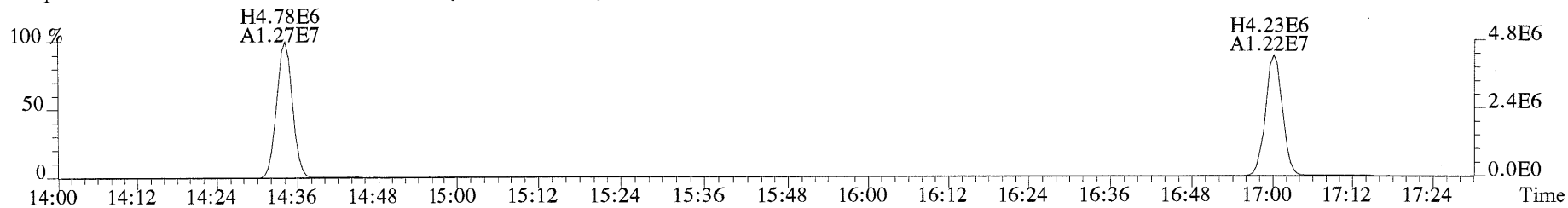


File:04APR18Z #1-784 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory

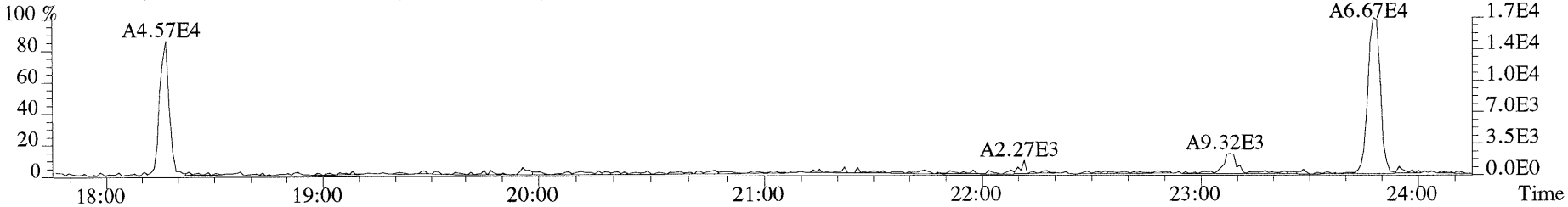
File:04APR18Z #1-784 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



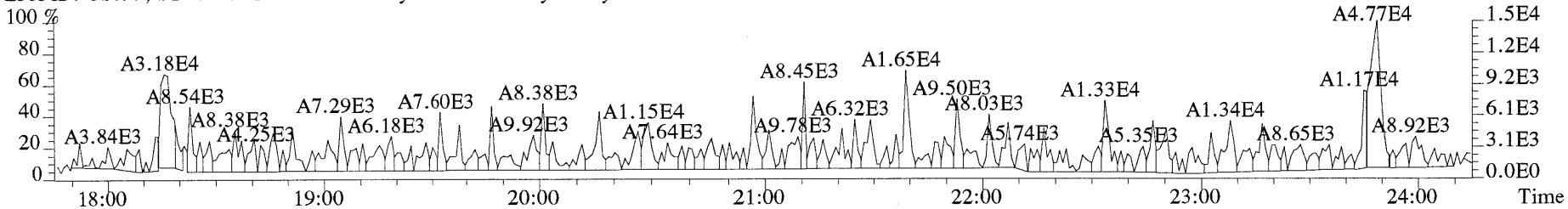
File:04APR18Z #1-784 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



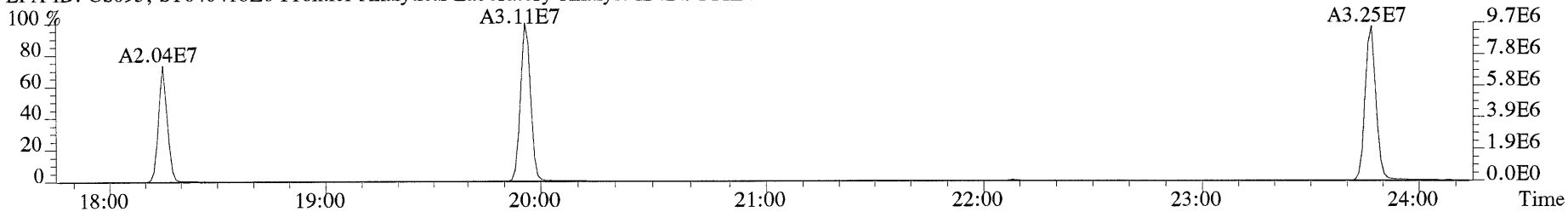
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
EPA ID: CS095; ST040418Z0 Frontier Analytical Laboratory Analyst ID:BS FAL4



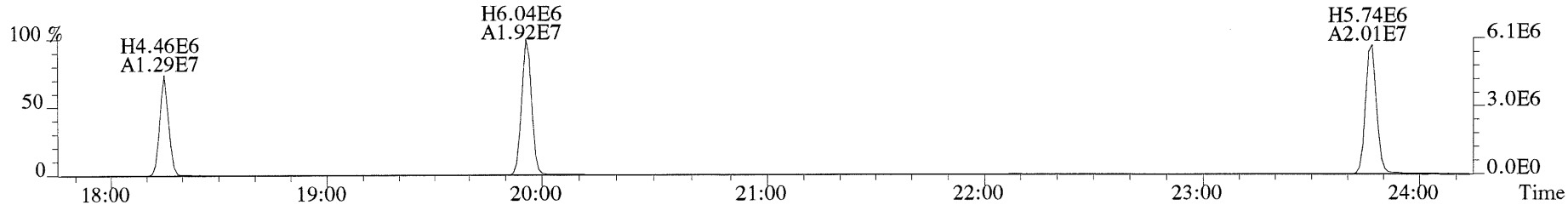
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
EPA ID: CS095; ST040418Z0 Frontier Analytical Laboratory Analyst ID:BS FAL4



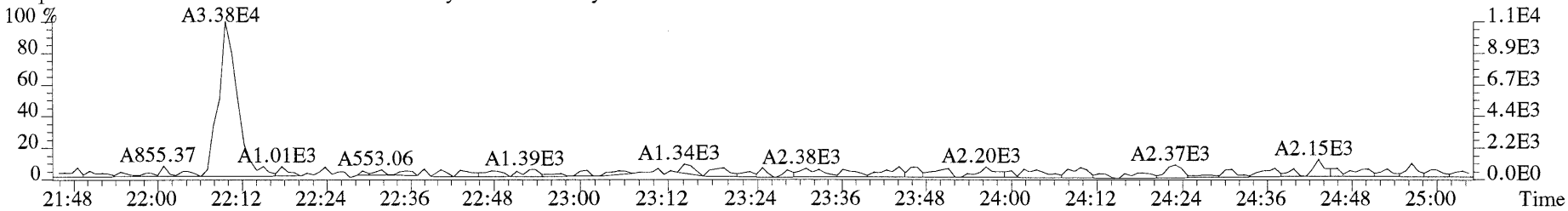
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
EPA ID: CS095; ST040418Z0 Frontier Analytical Laboratory Analyst ID:BS FAL4



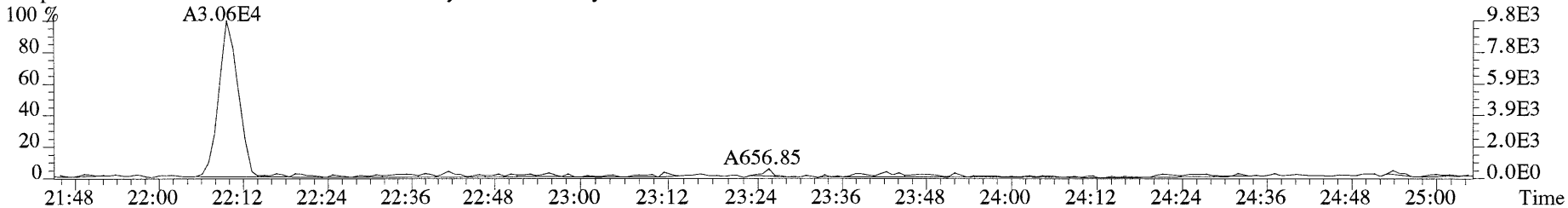
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
EPA ID: CS095; ST040418Z0 Frontier Analytical Laboratory Analyst ID:BS FAL4



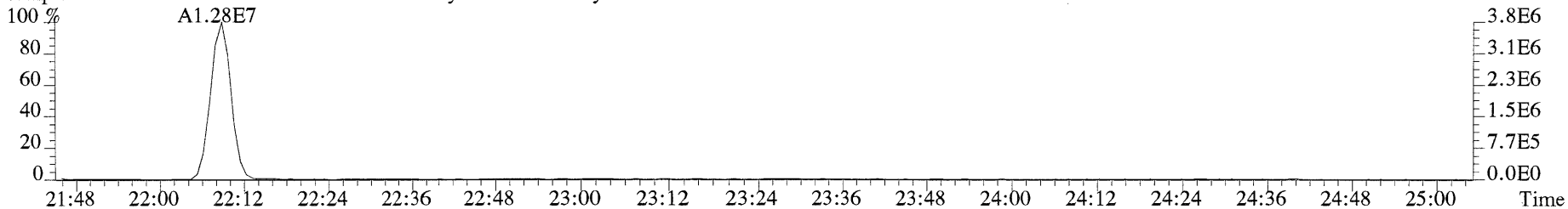
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



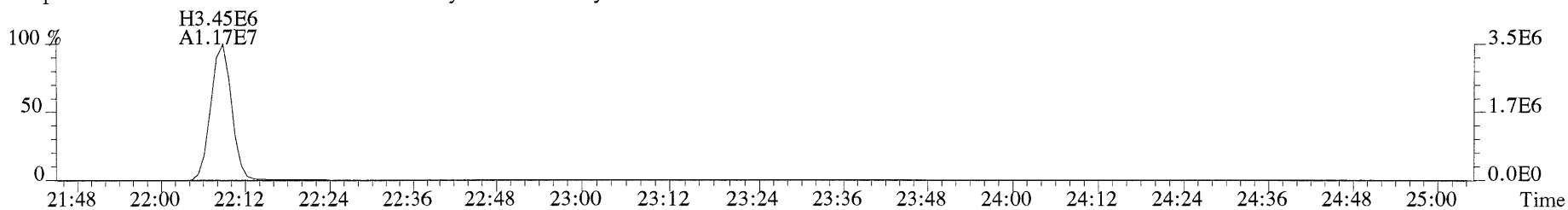
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



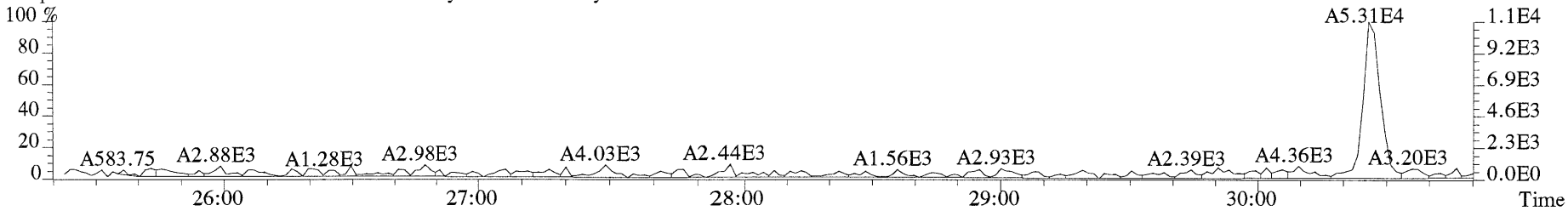
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



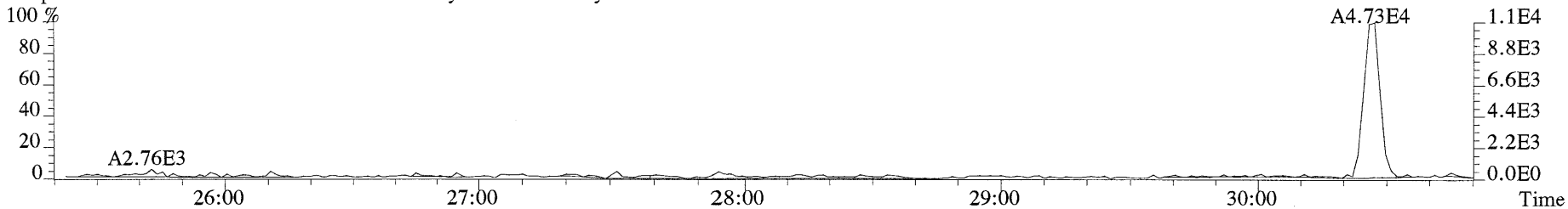
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



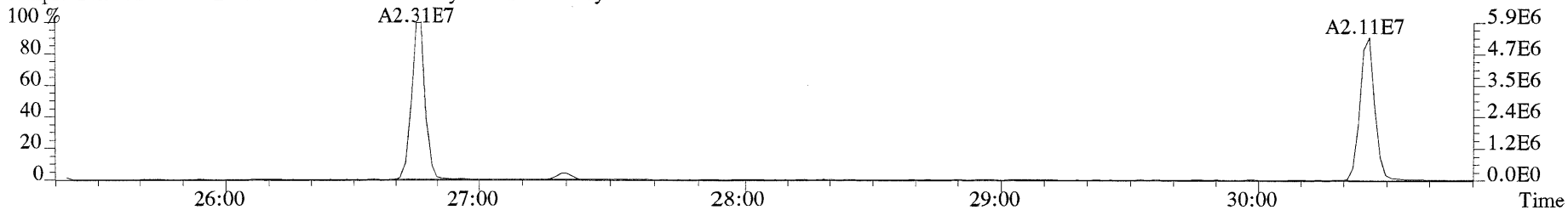
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



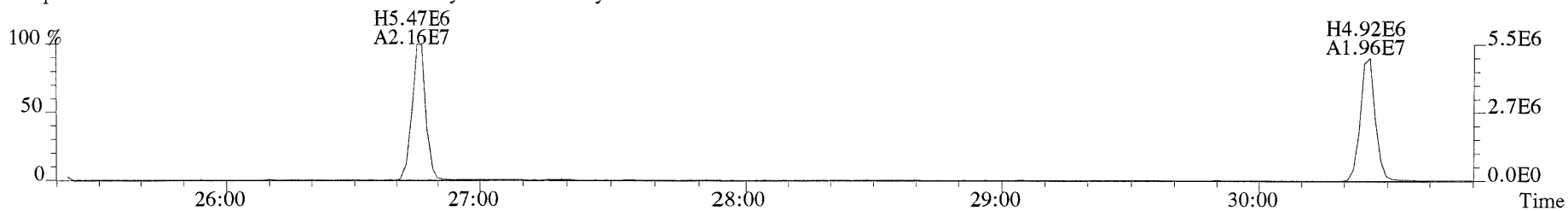
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



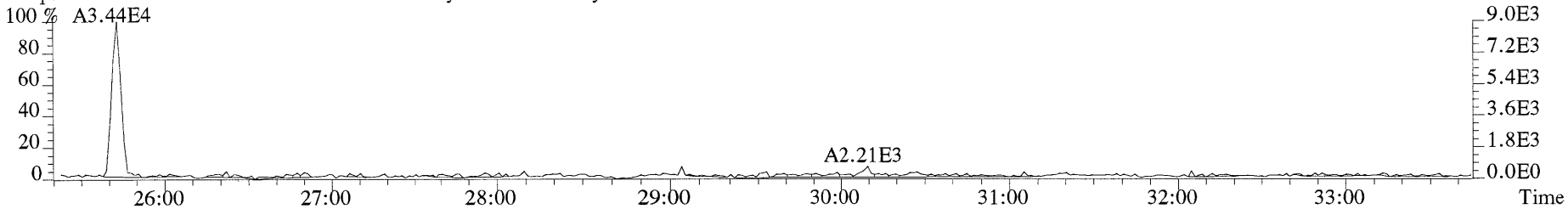
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



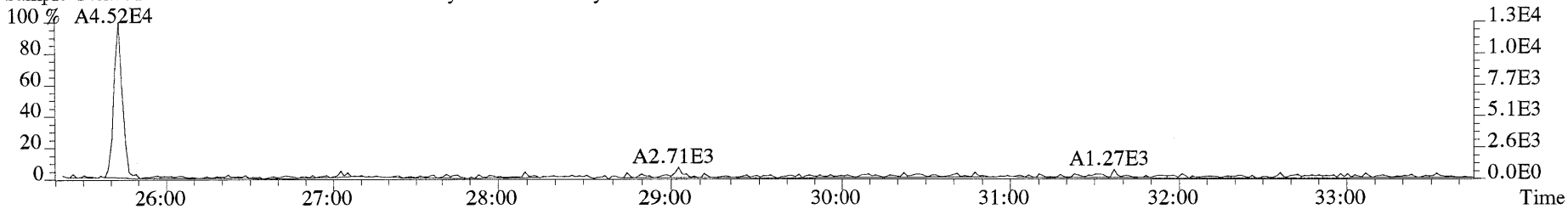
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



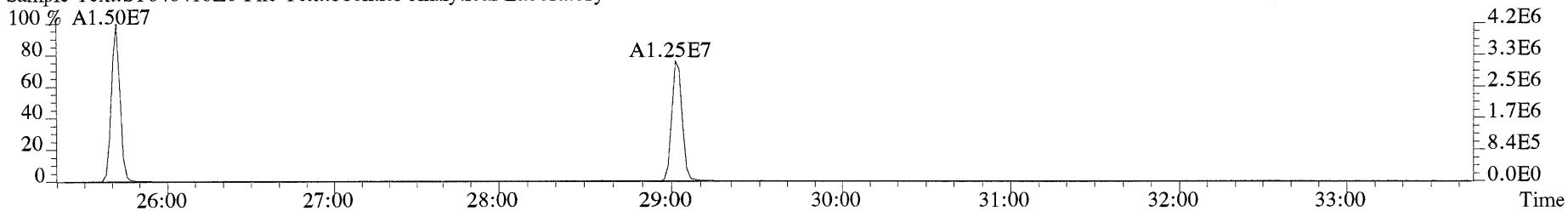
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



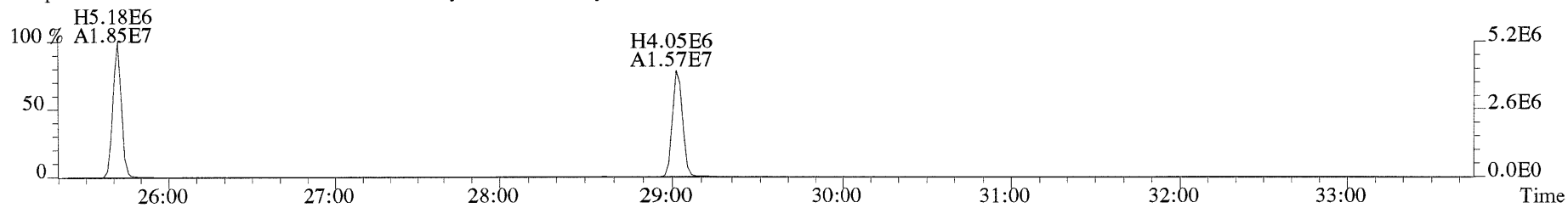
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



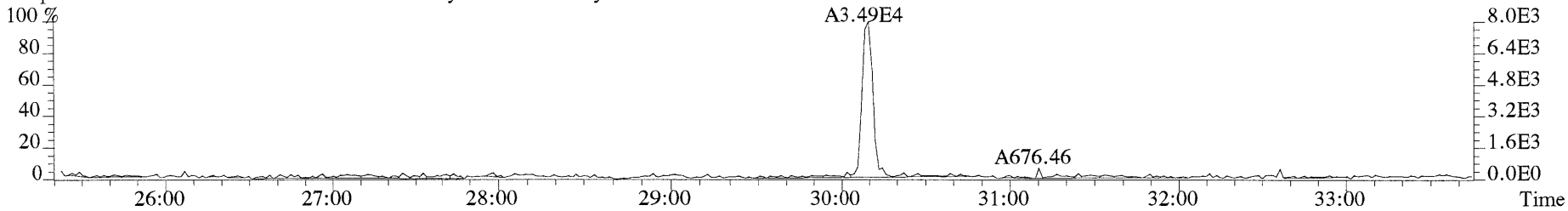
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



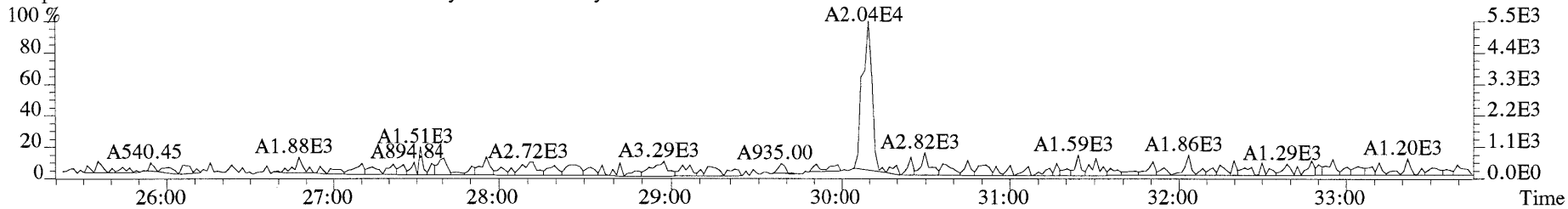
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



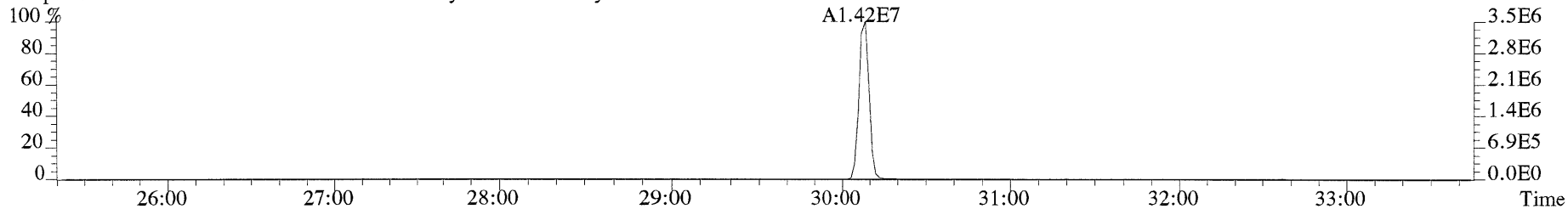
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



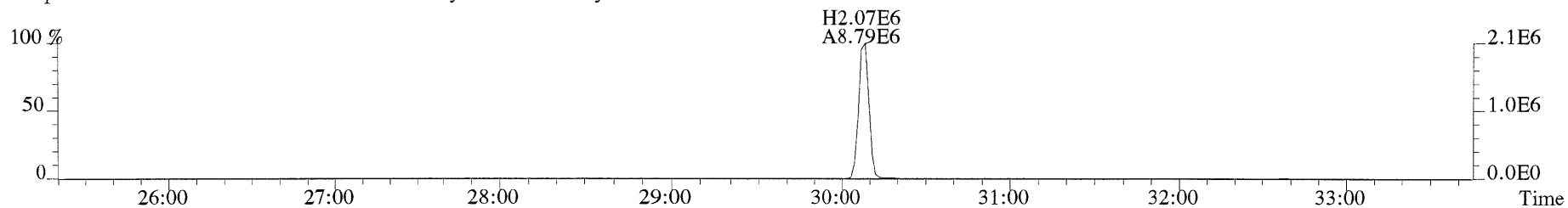
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



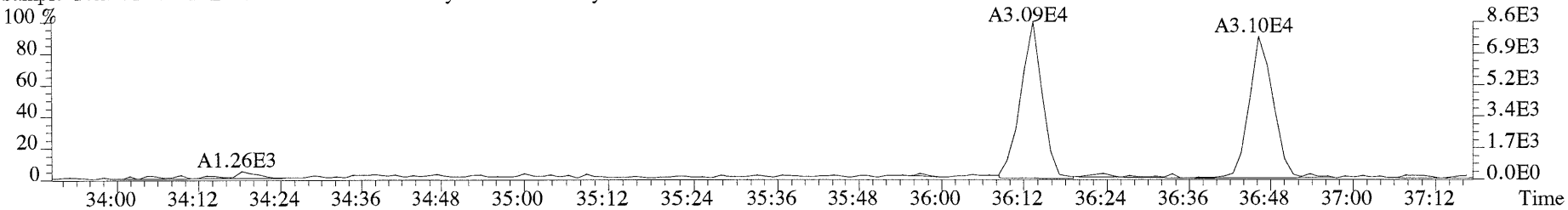
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



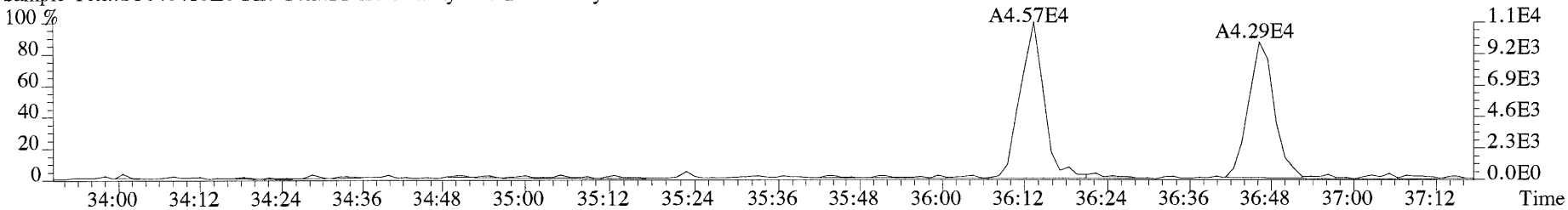
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



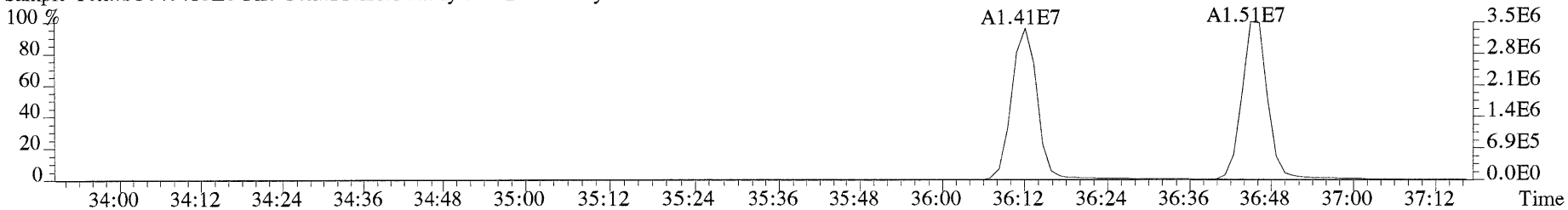
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



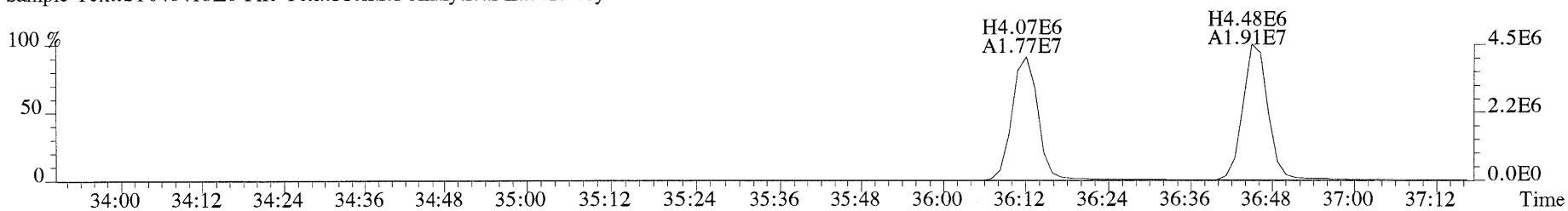
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



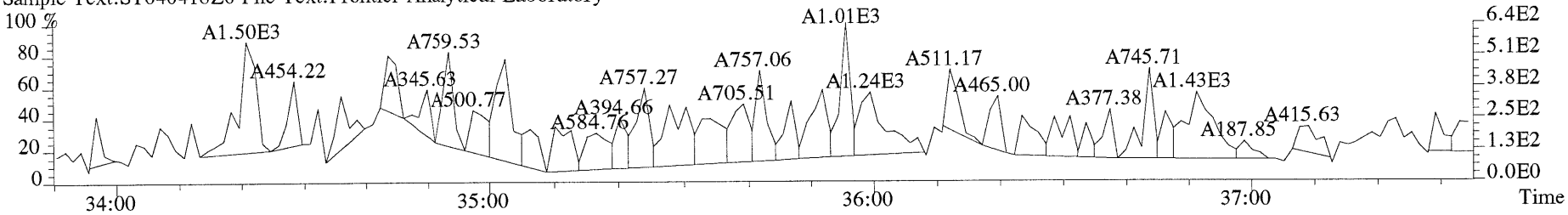
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



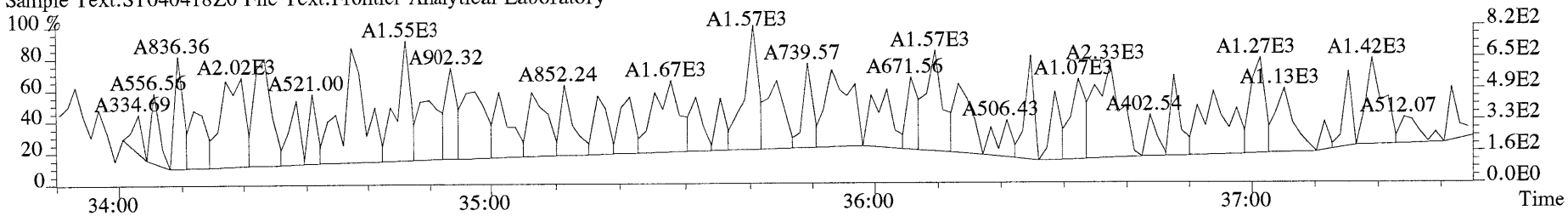
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



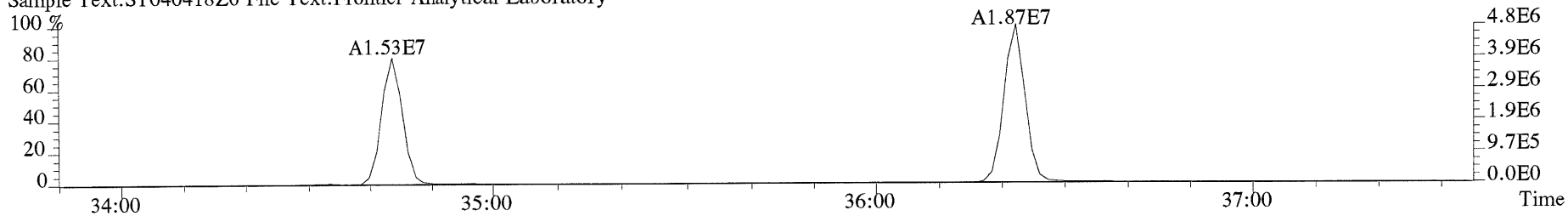
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



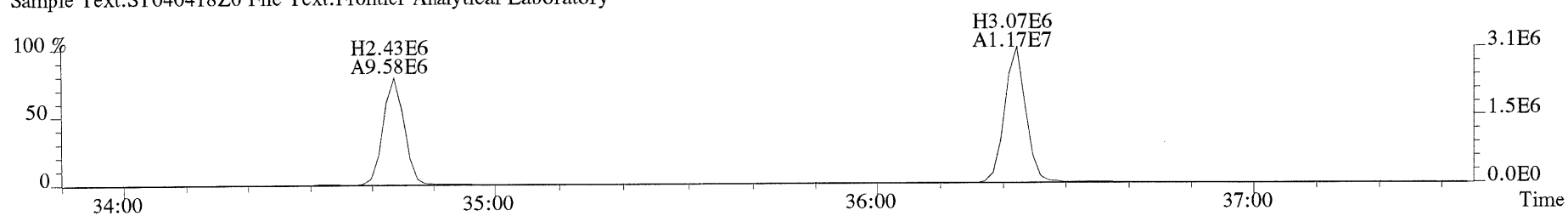
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



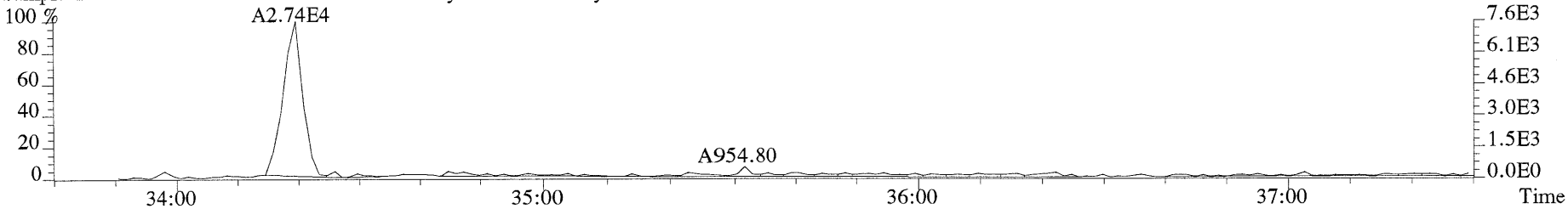
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



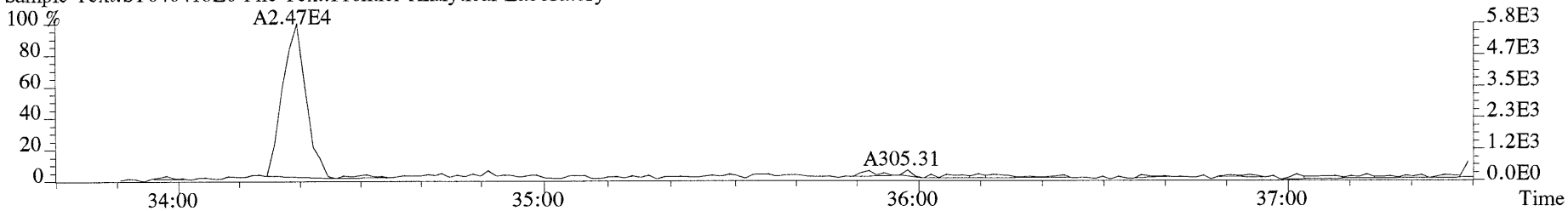
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



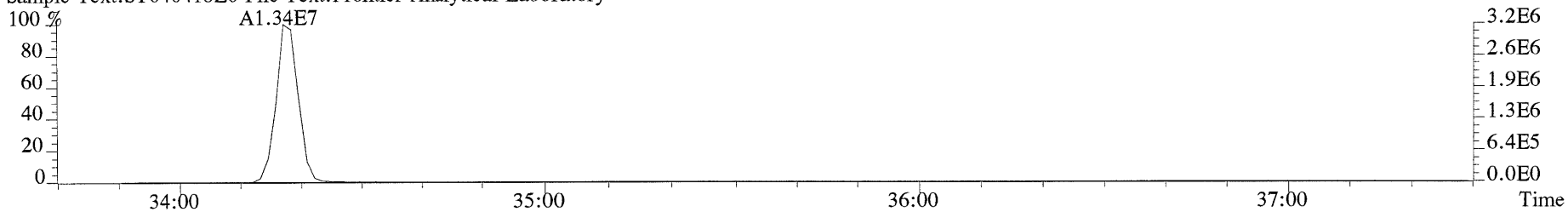
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



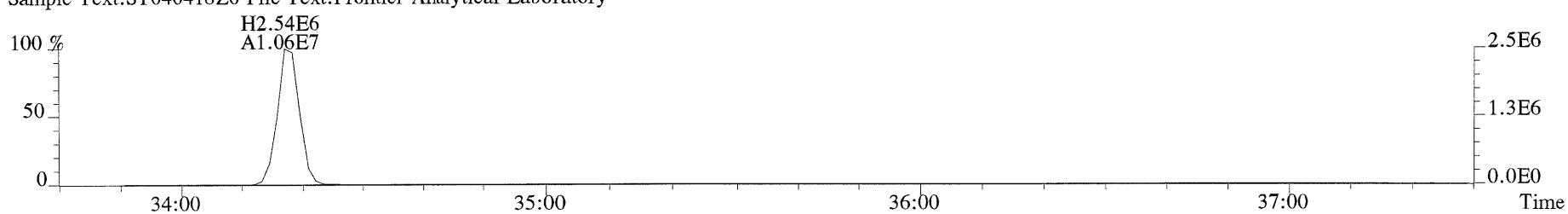
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



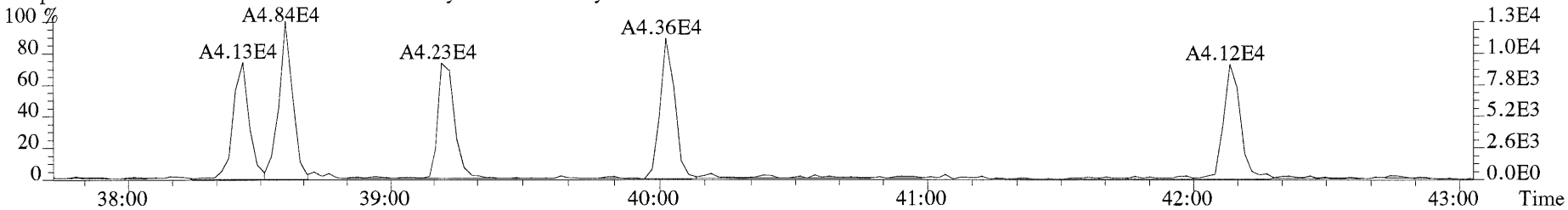
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



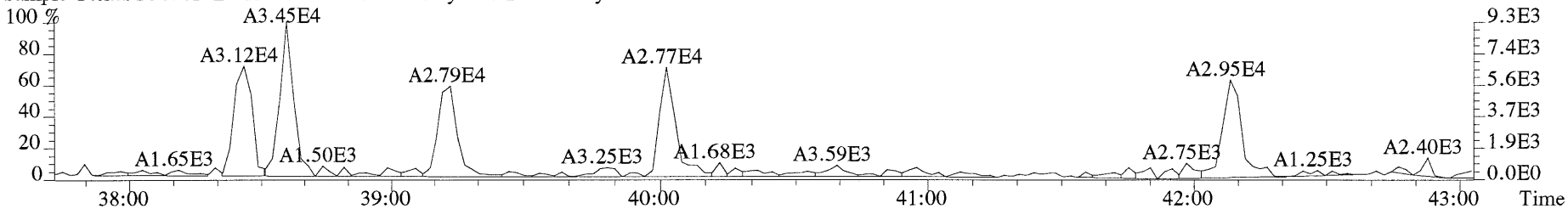
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



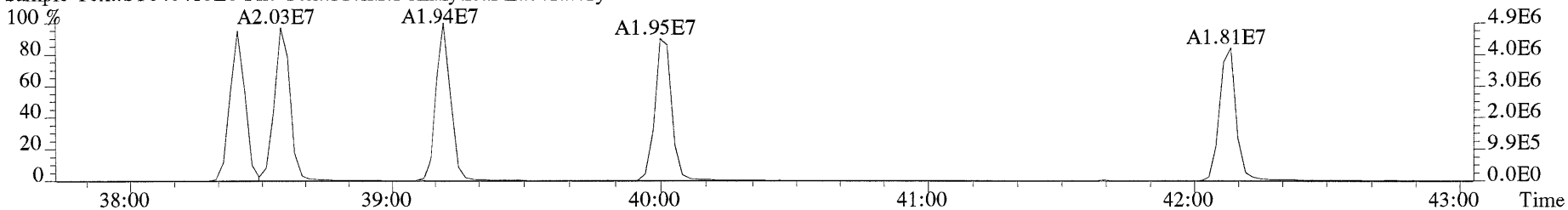
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



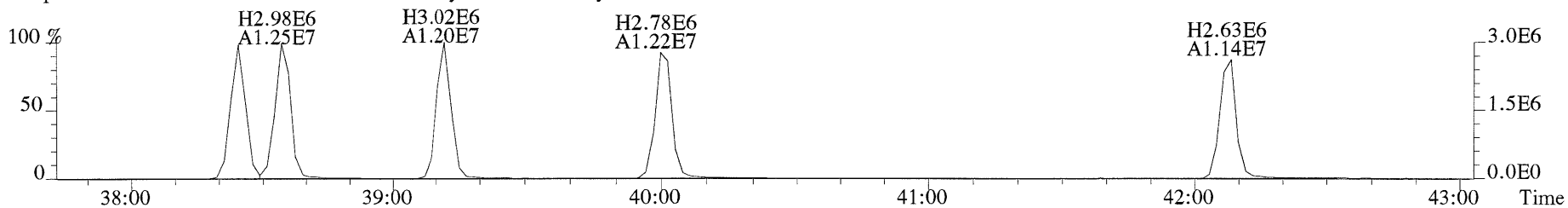
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



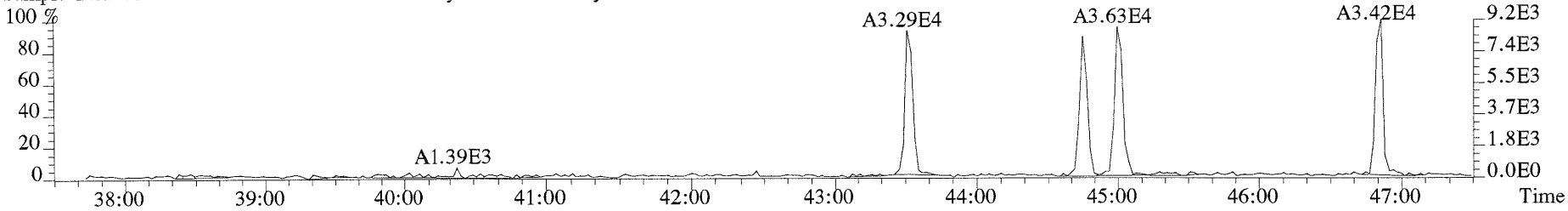
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



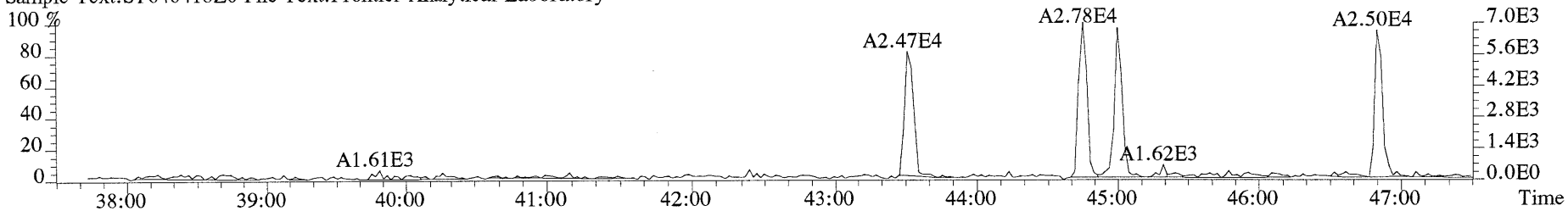
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



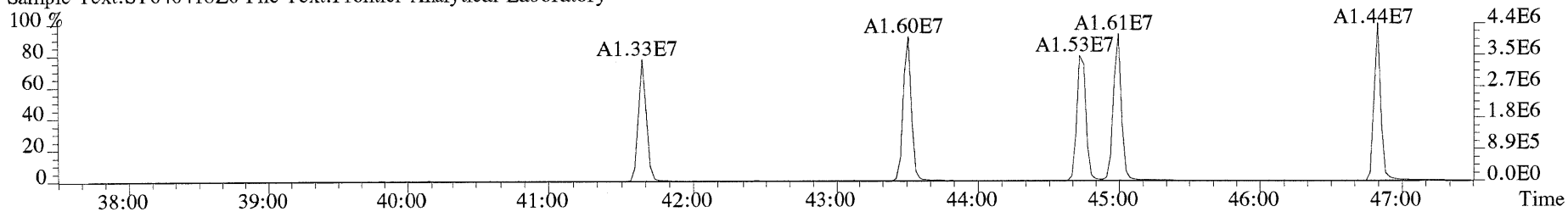
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



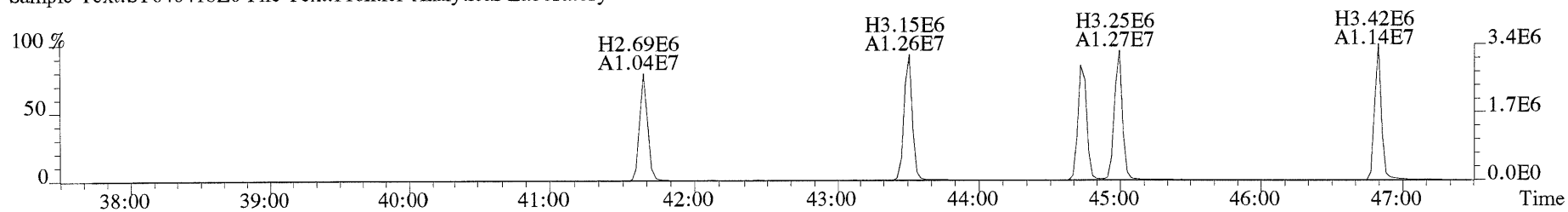
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



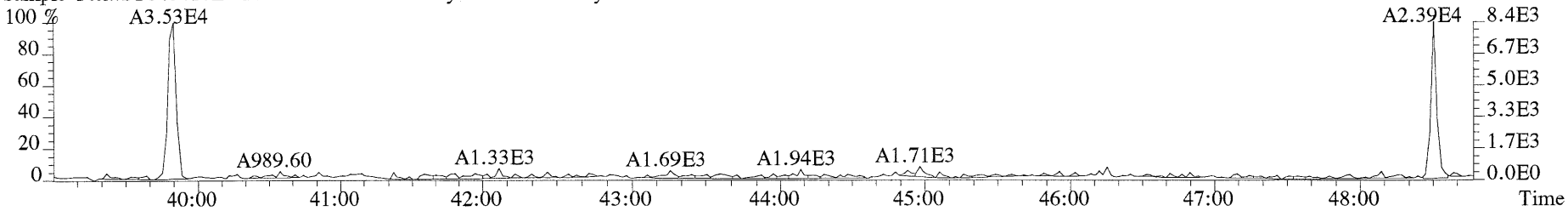
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



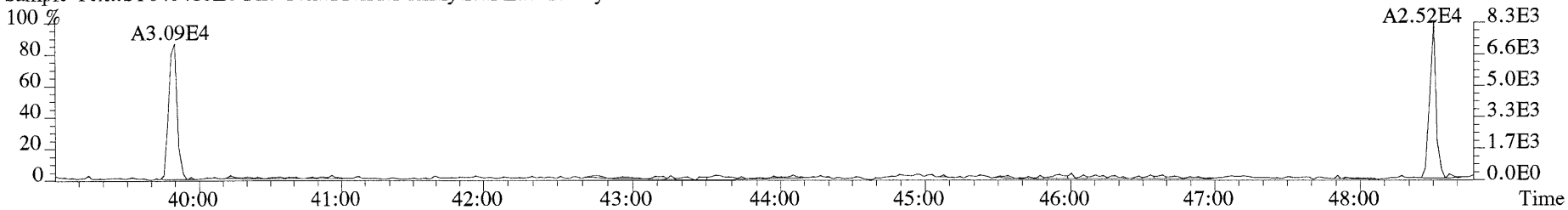
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



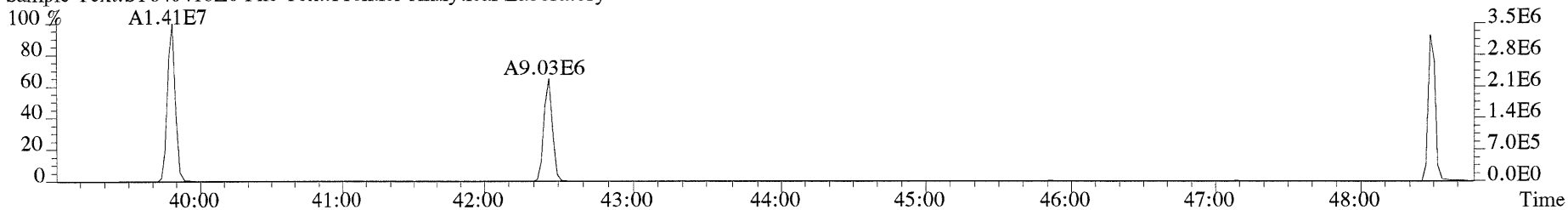
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



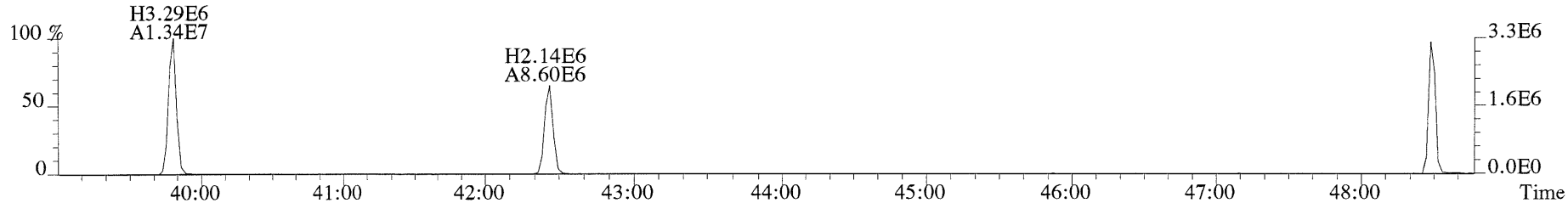
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



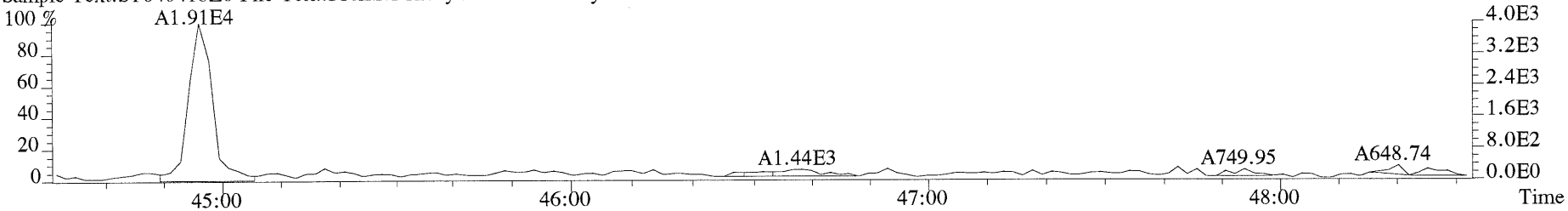
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



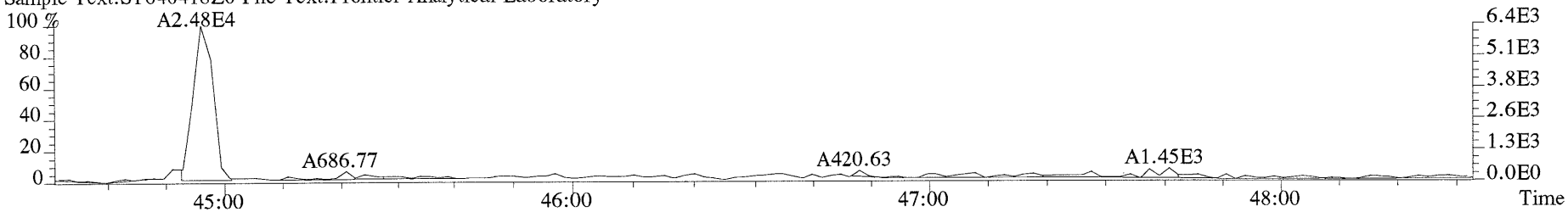
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



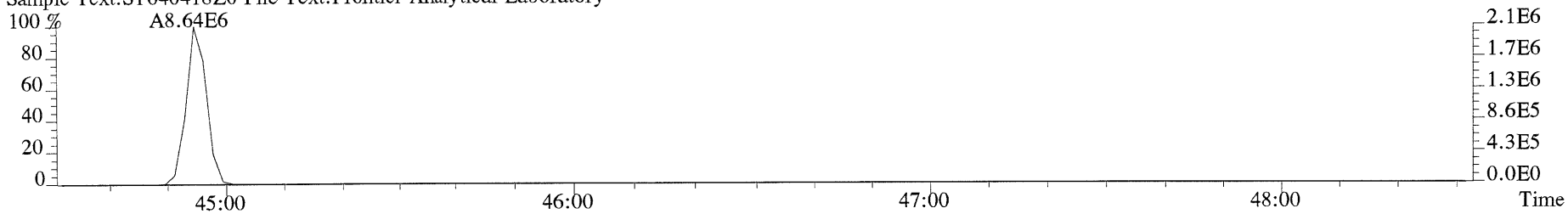
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



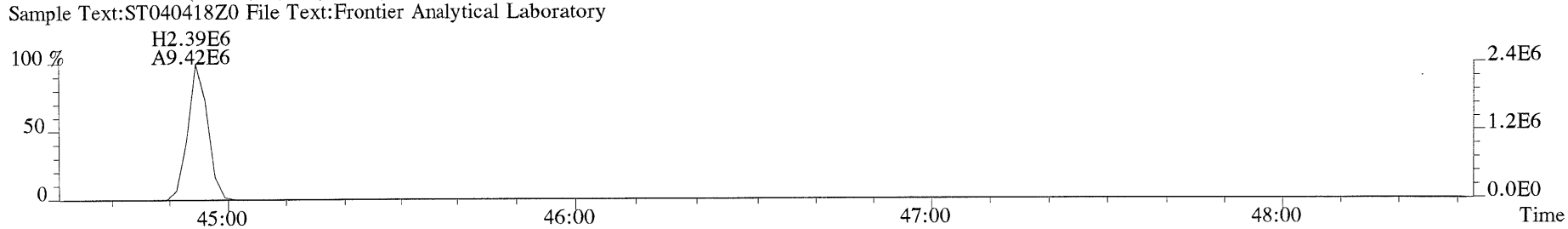
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



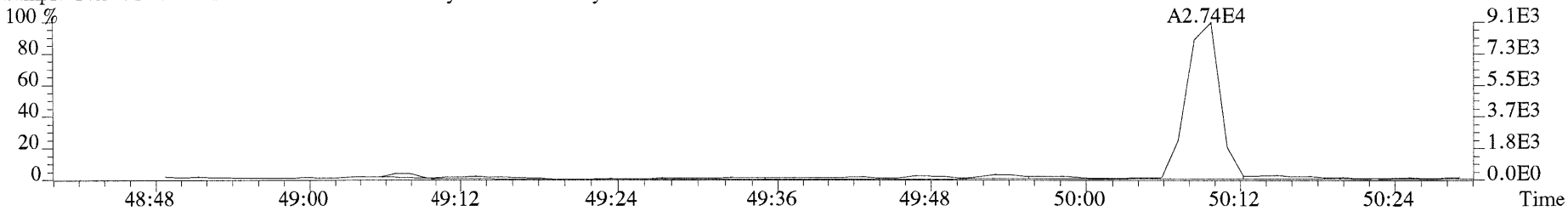
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



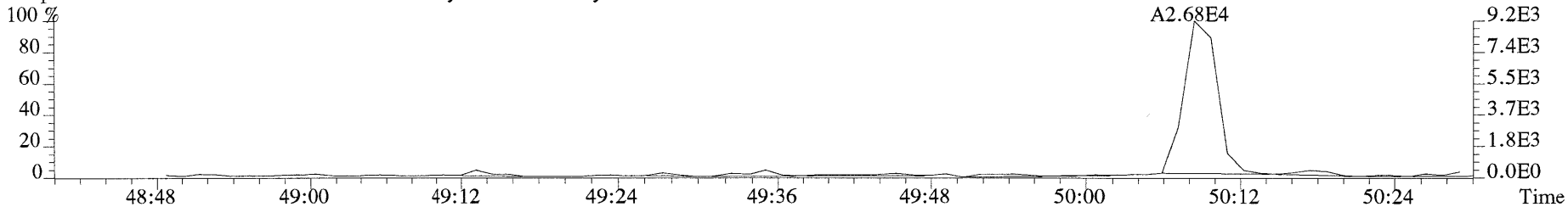
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



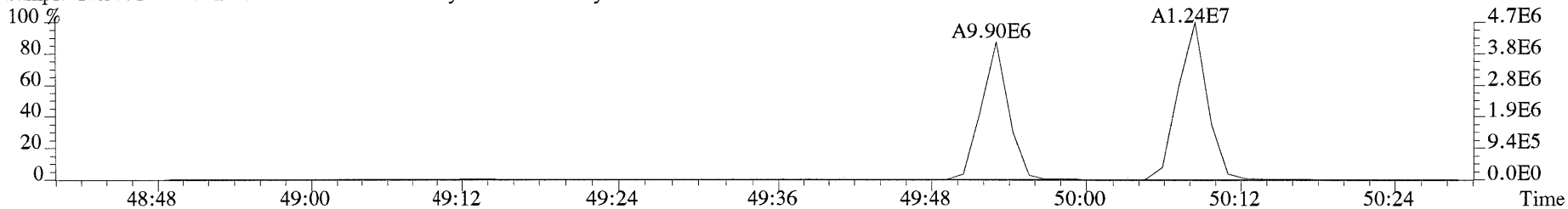
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



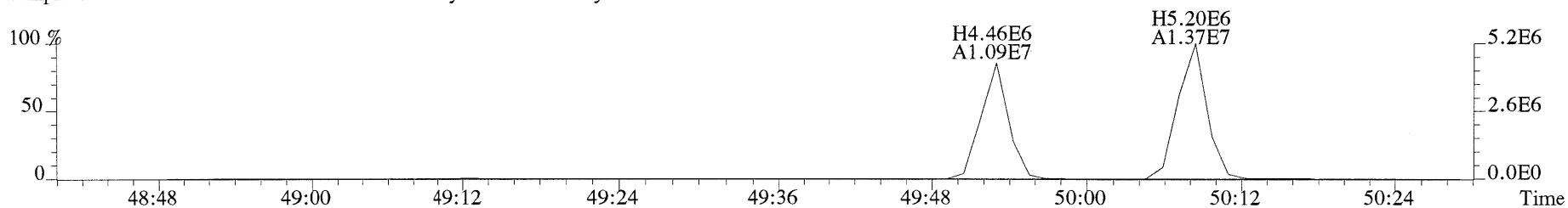
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



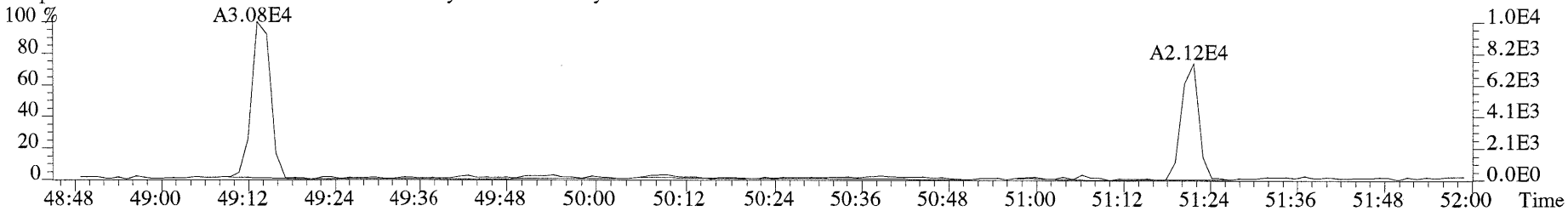
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



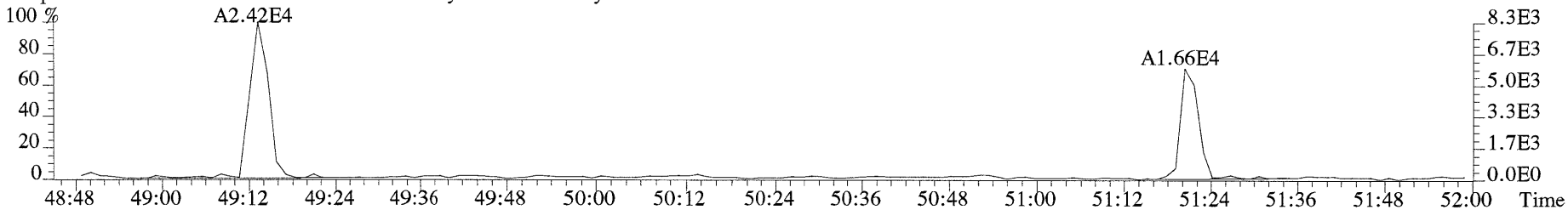
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



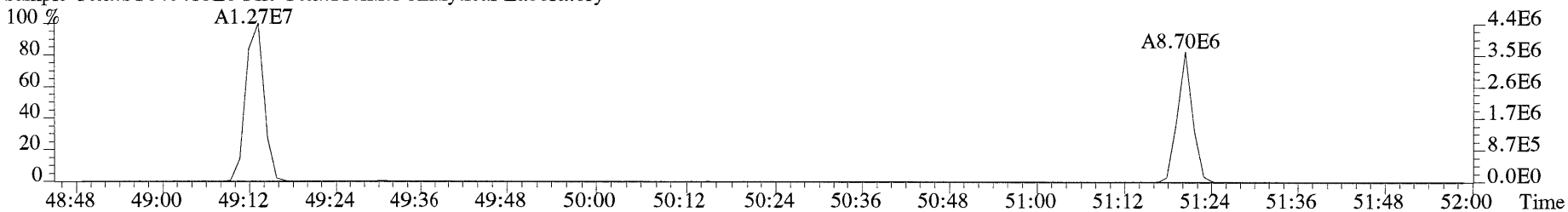
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



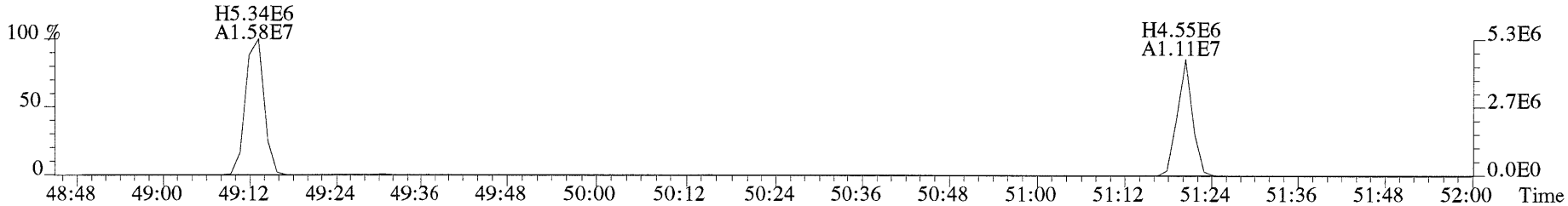
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



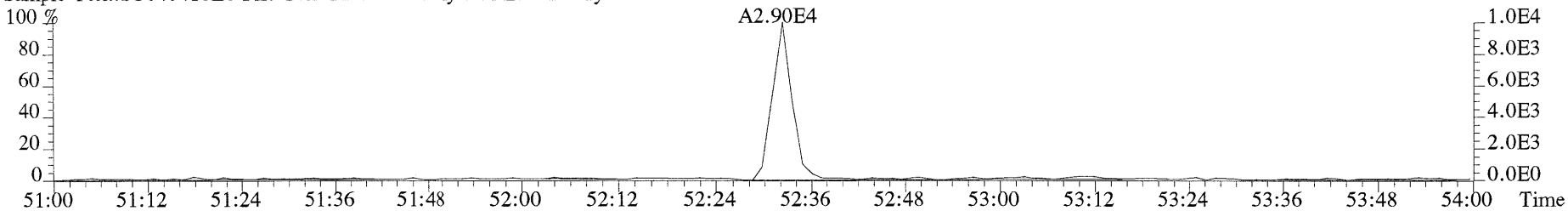
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



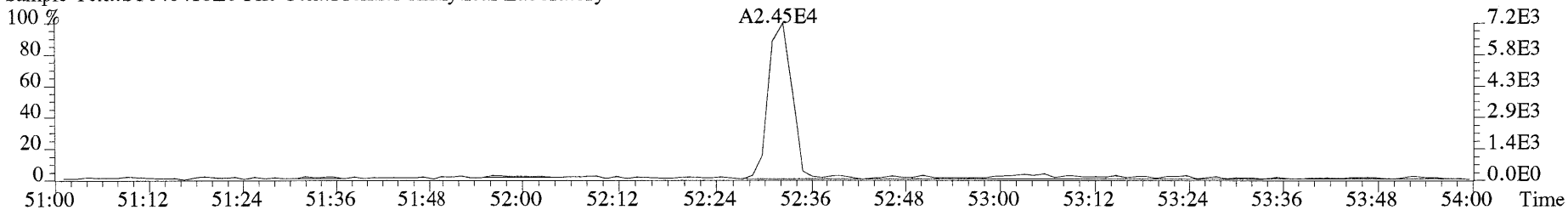
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



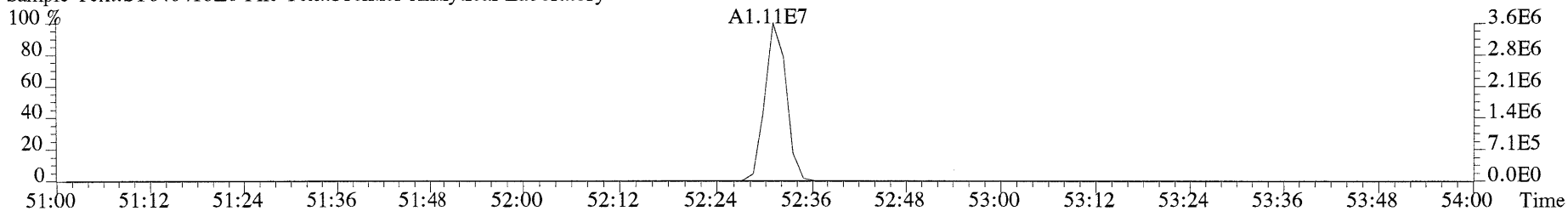
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



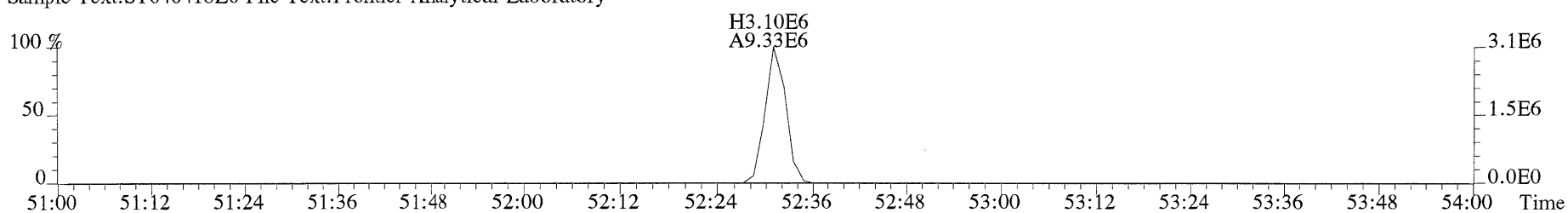
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



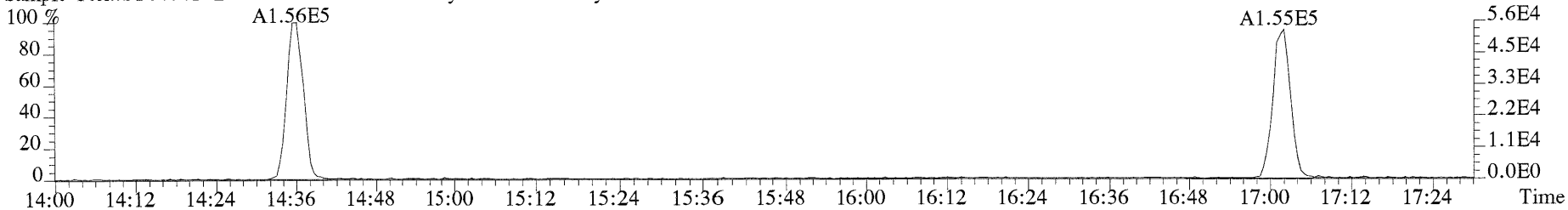
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



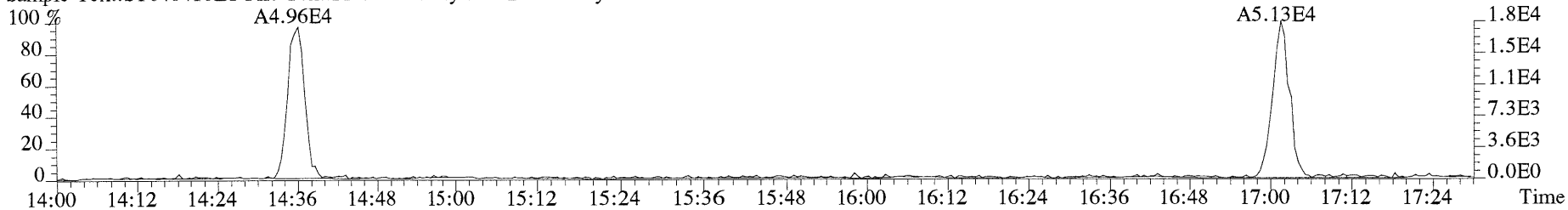
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



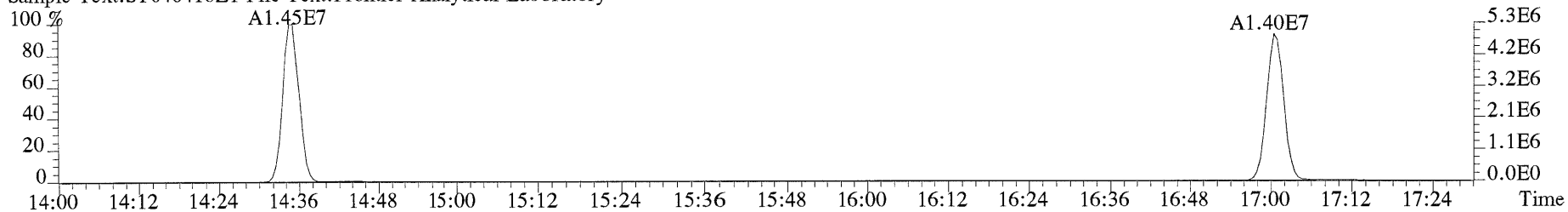
File:04APR18Z #1-784 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



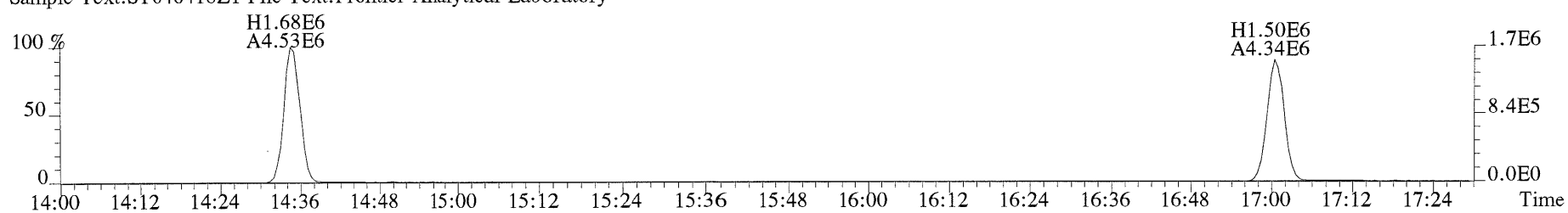
File:04APR18Z #1-784 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



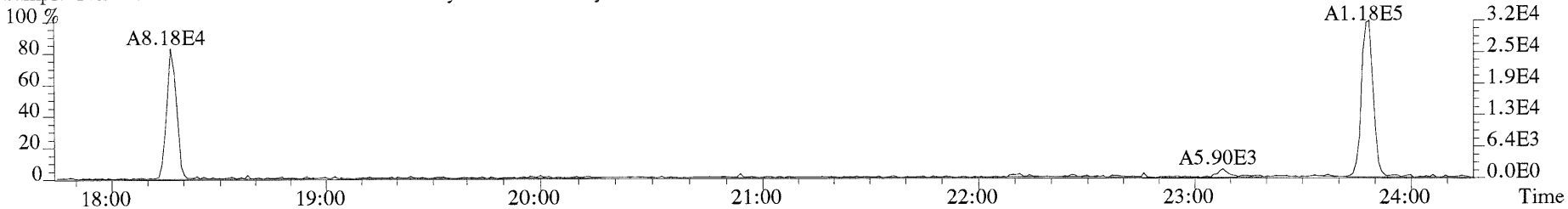
File:04APR18Z #1-784 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



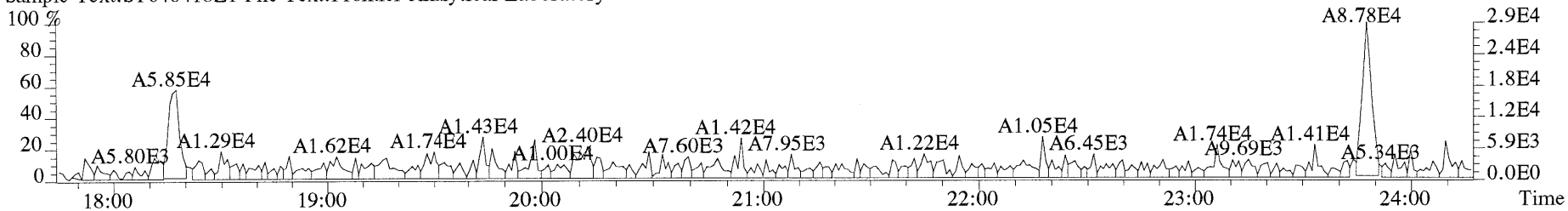
File:04APR18Z #1-784 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



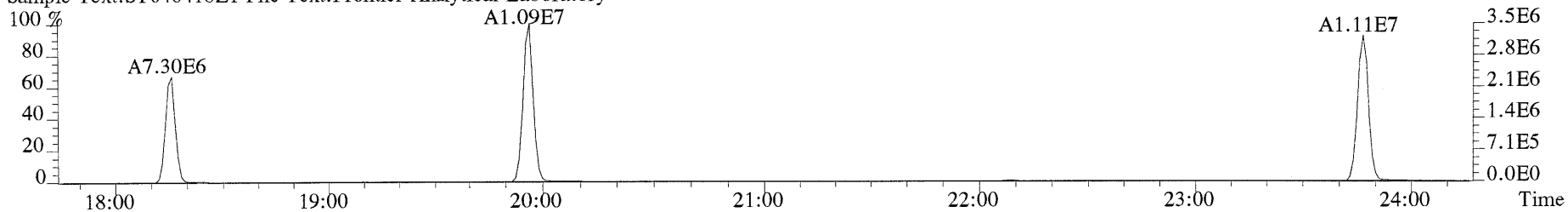
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



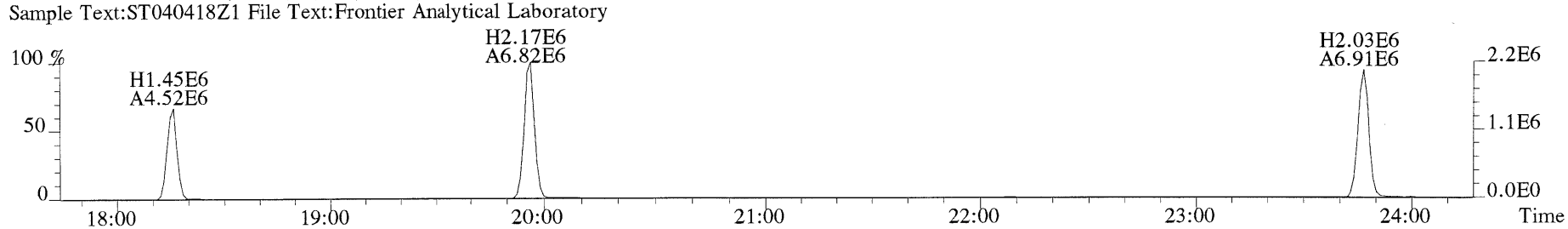
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



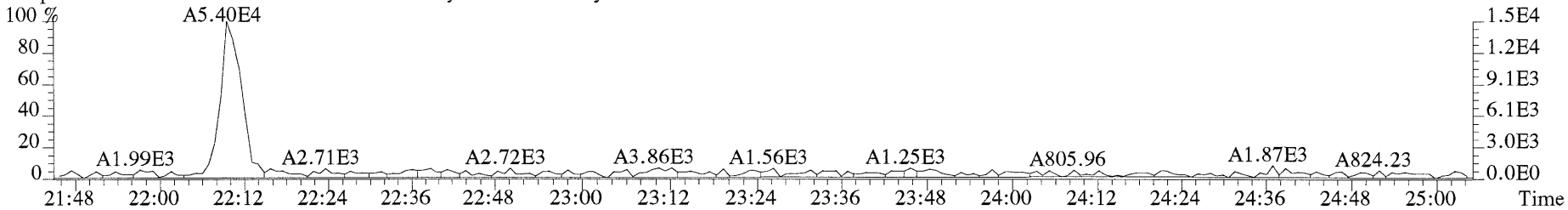
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



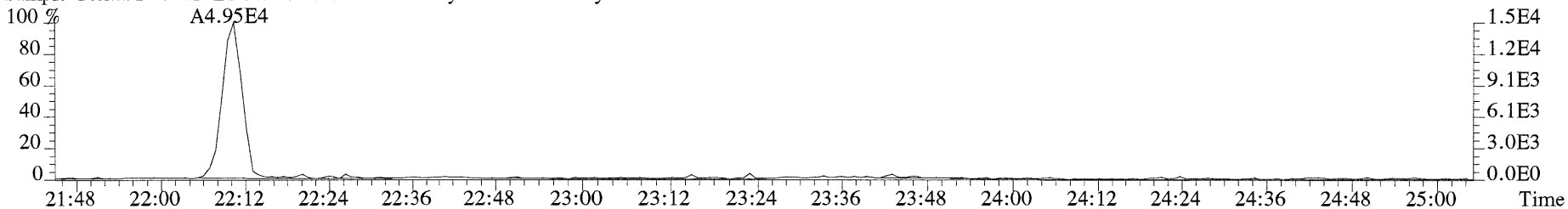
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



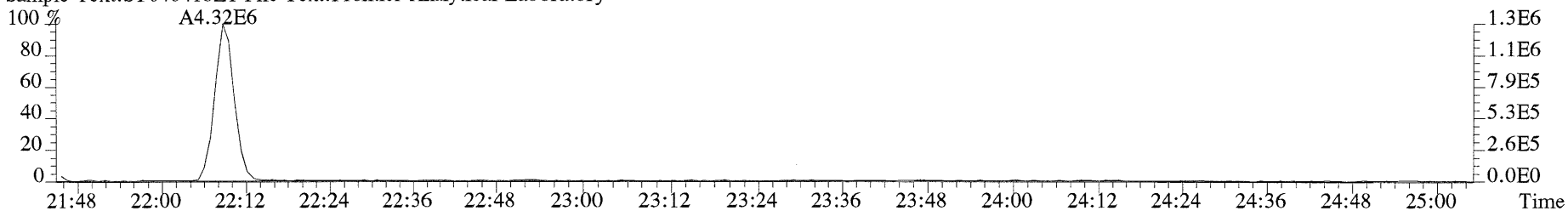
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



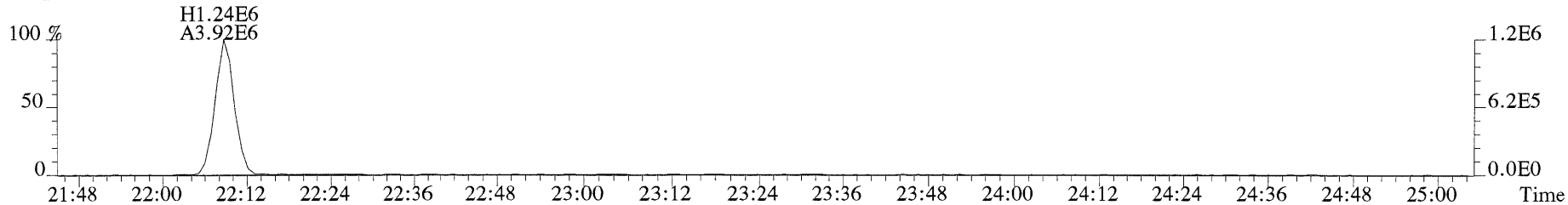
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



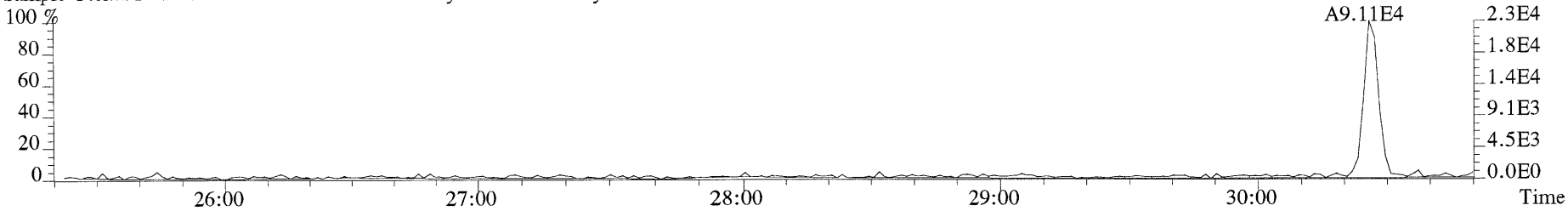
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



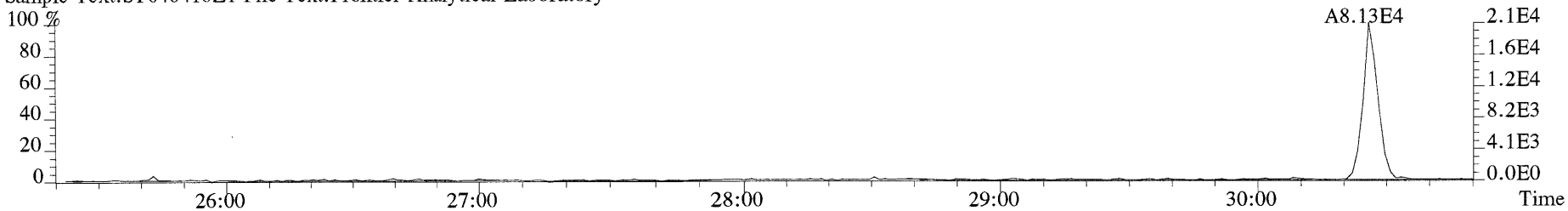
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



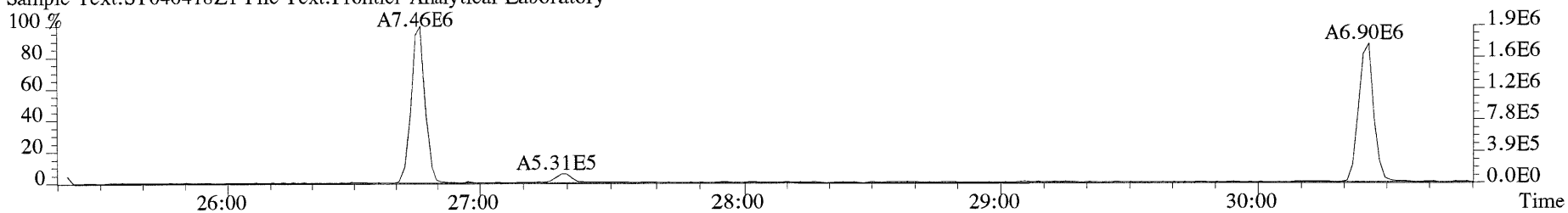
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



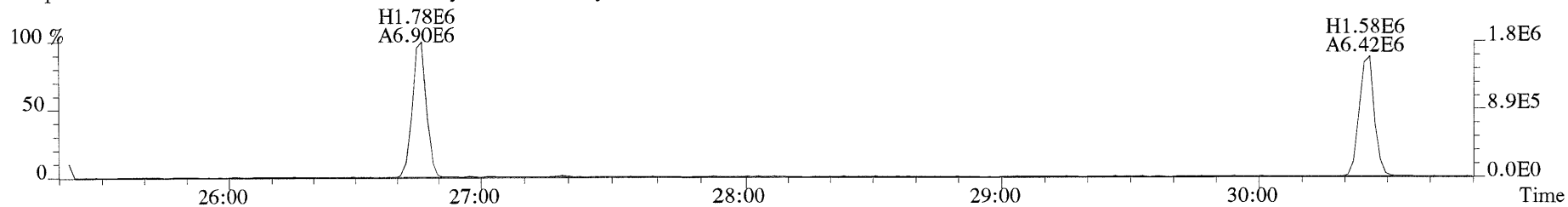
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



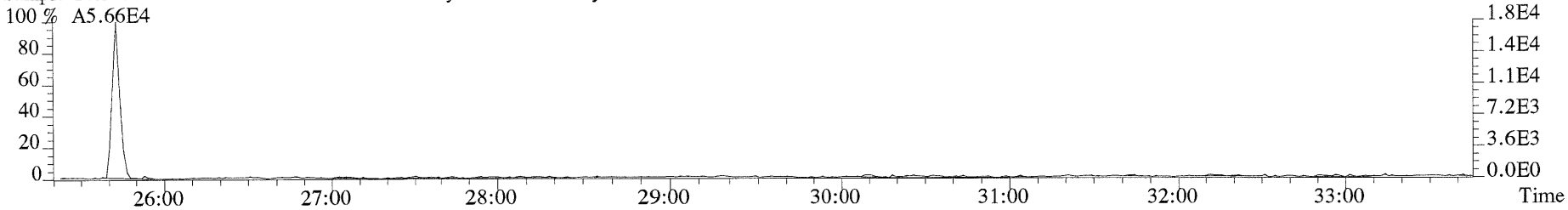
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



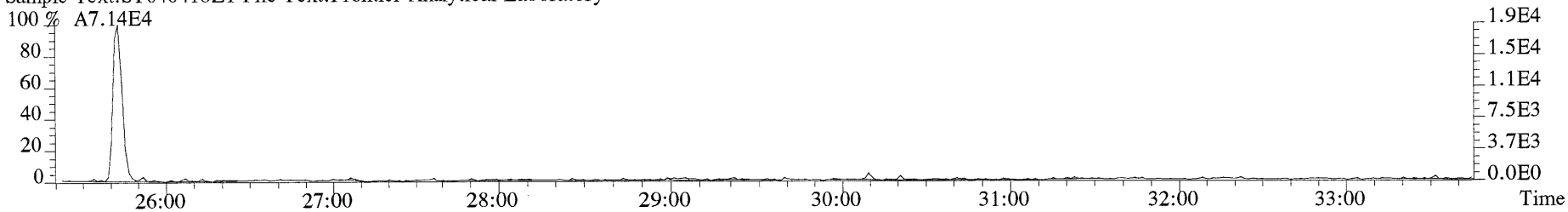
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



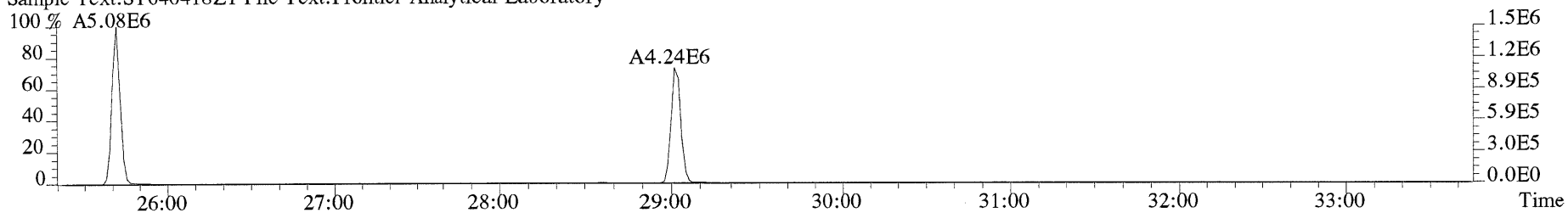
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



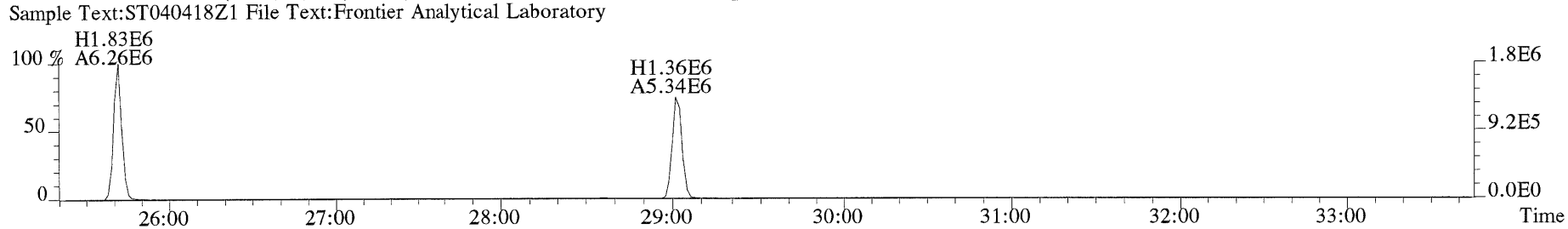
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



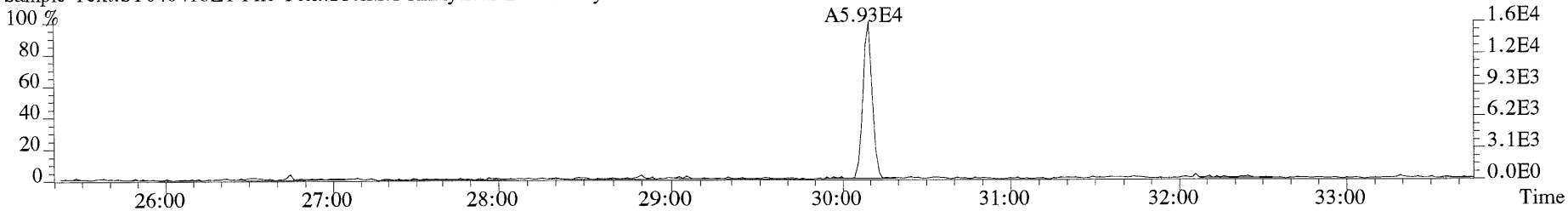
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



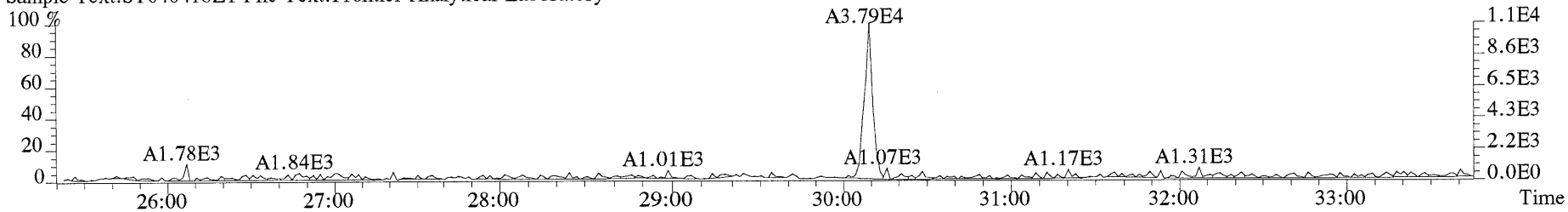
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



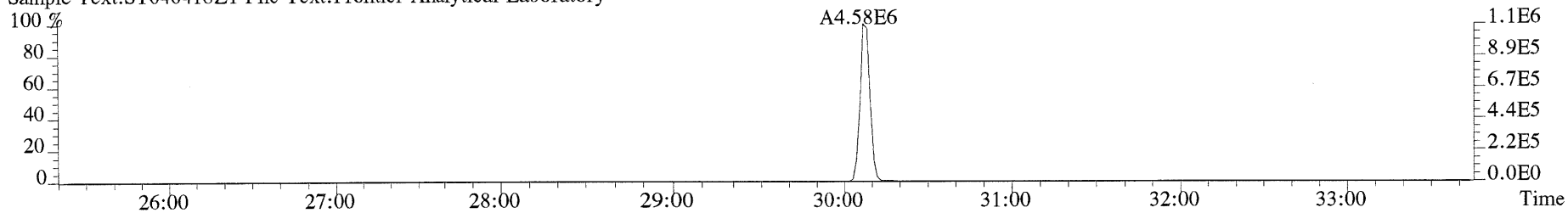
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



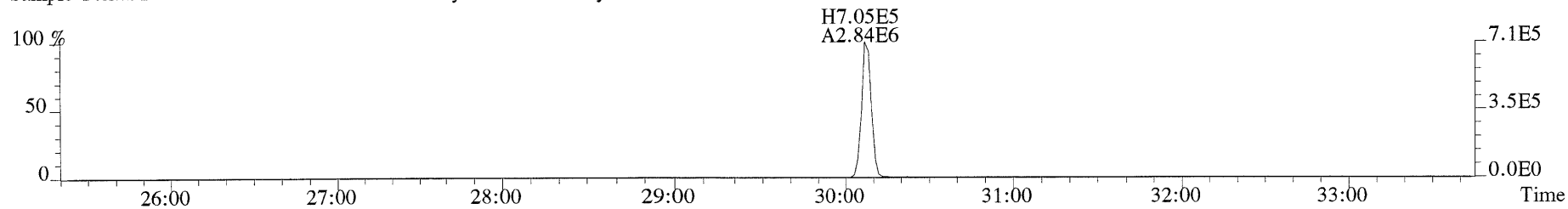
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



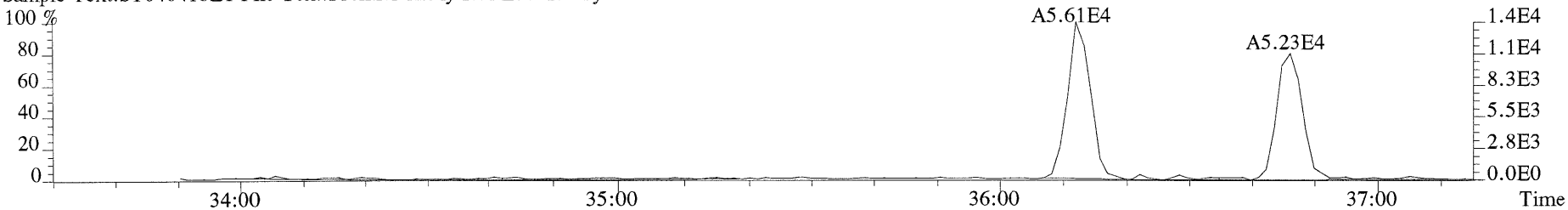
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



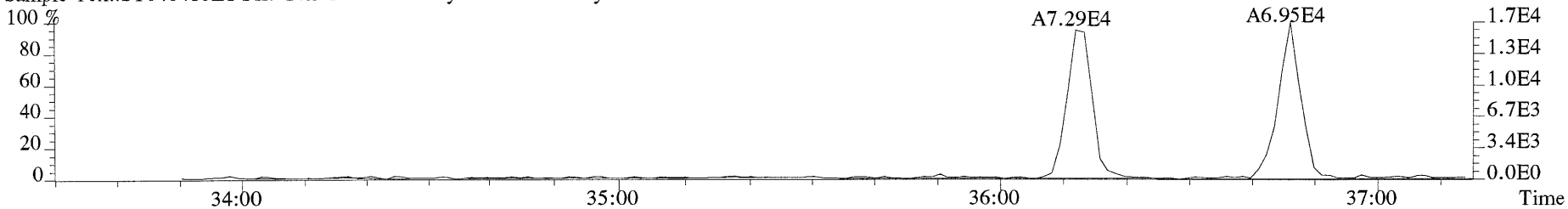
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



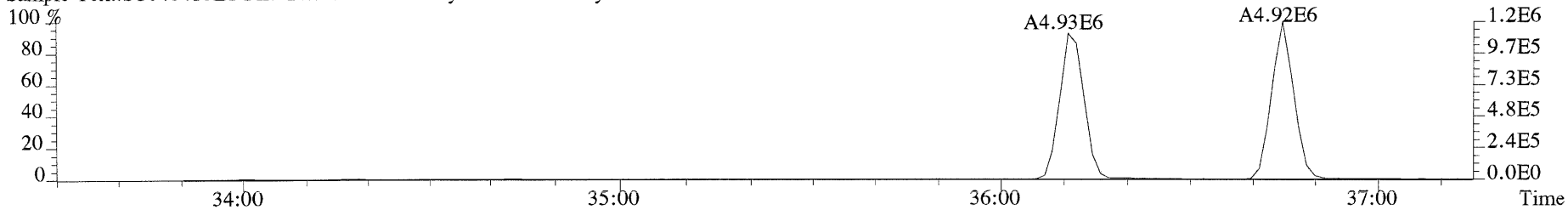
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



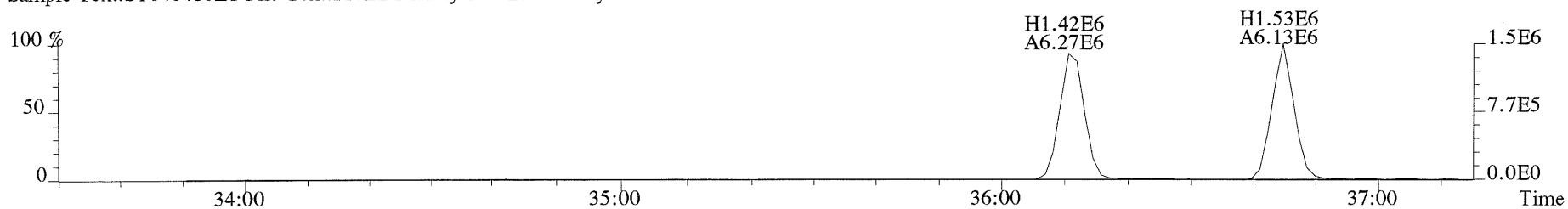
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



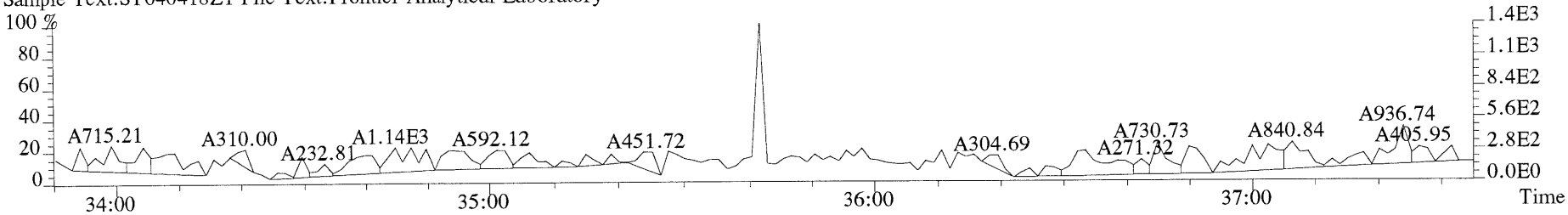
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



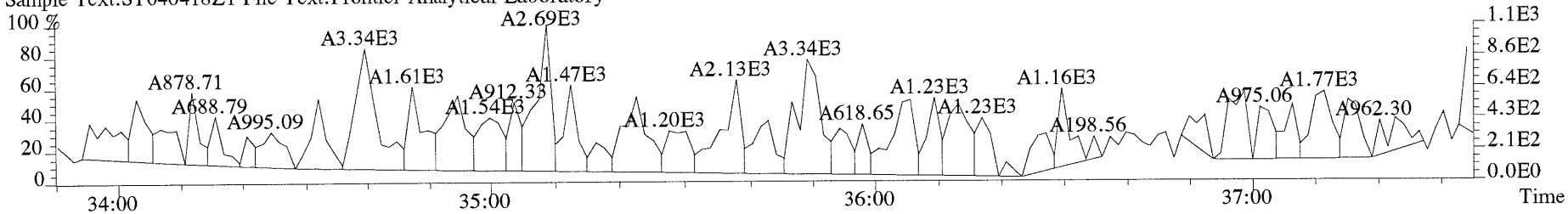
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



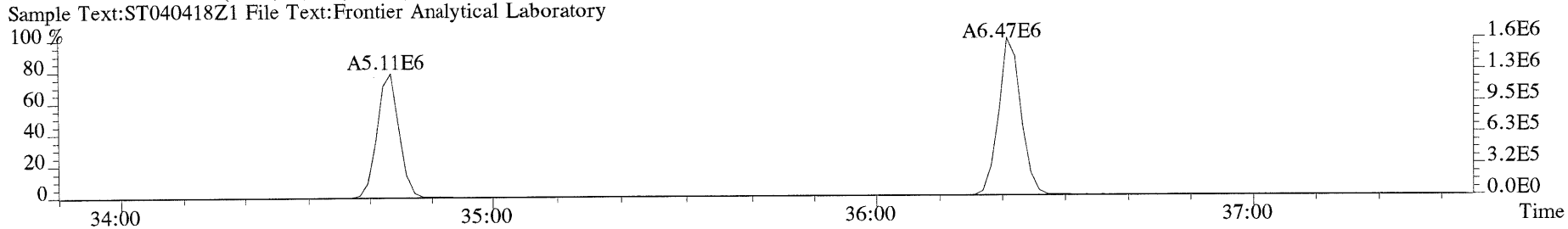
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



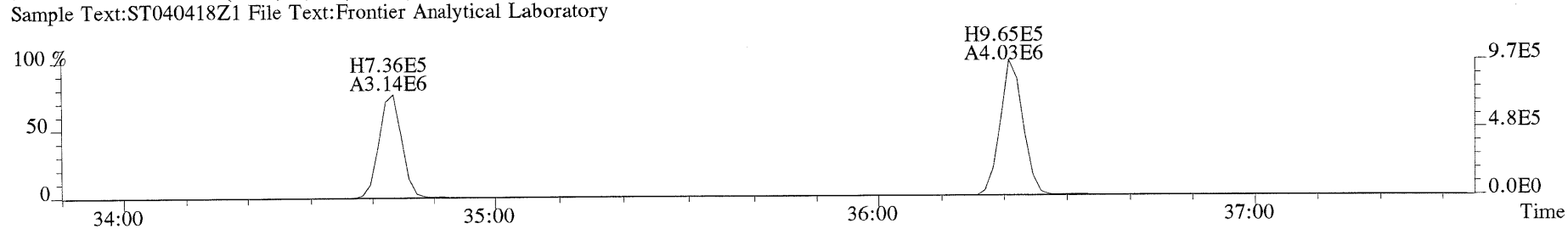
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



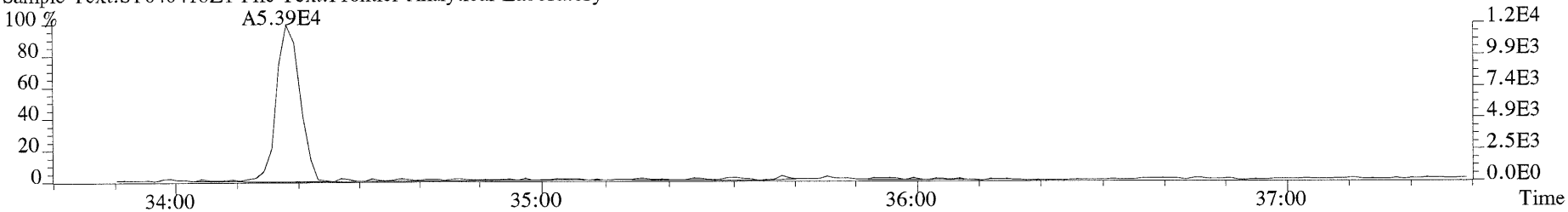
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



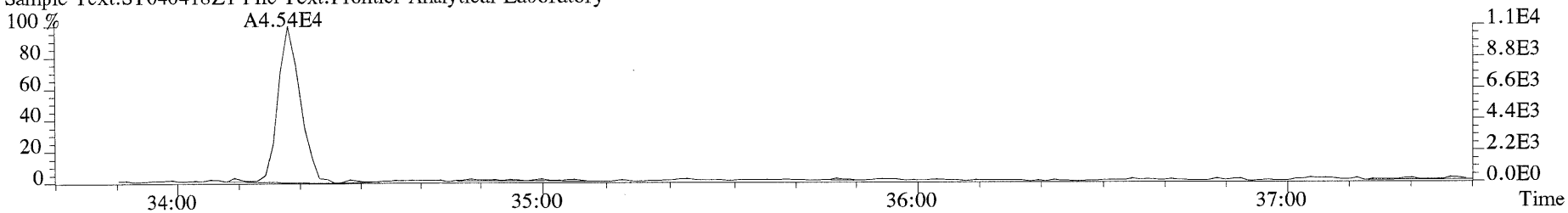
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



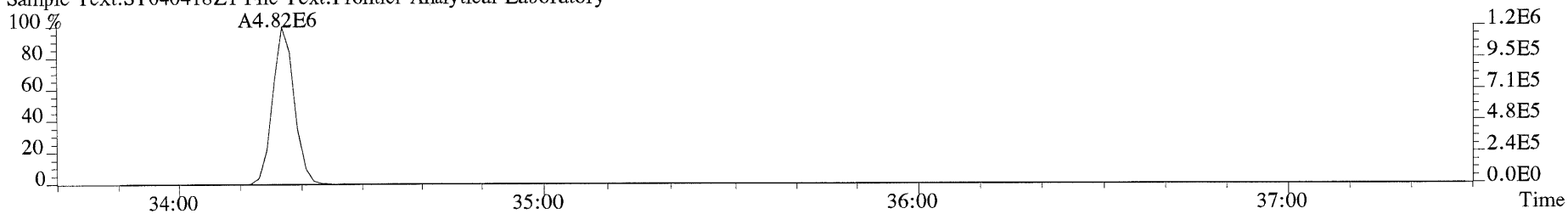
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



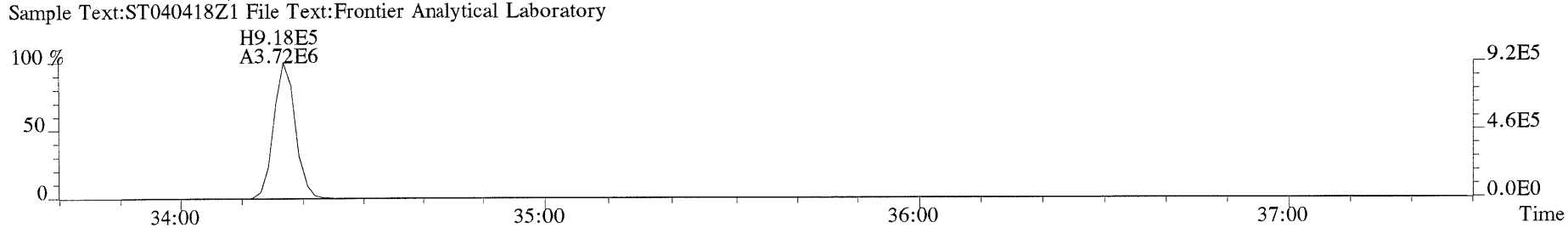
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



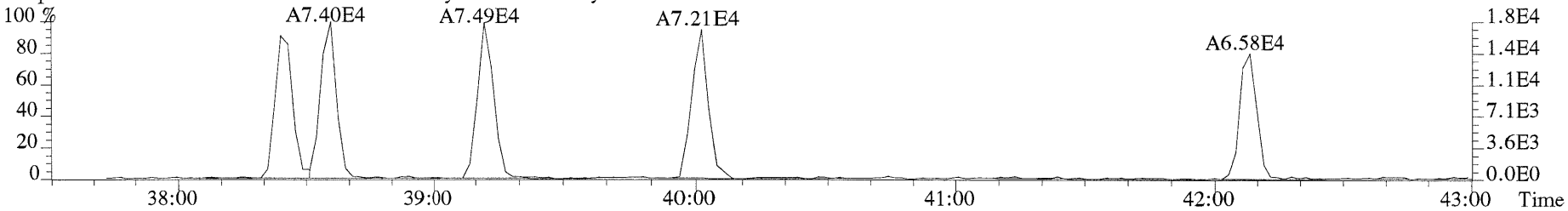
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



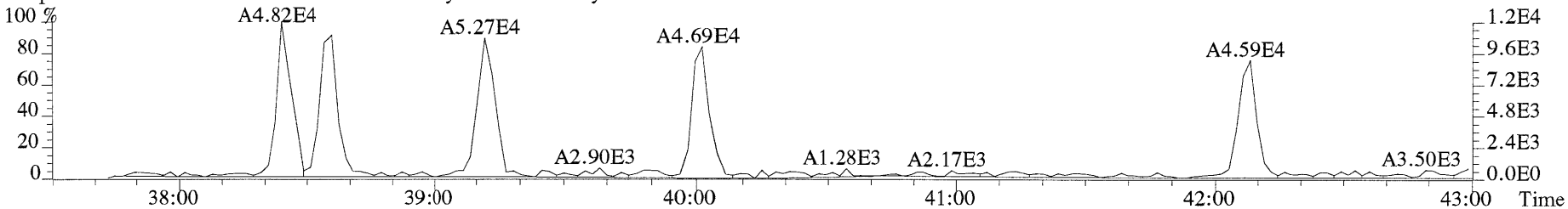
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



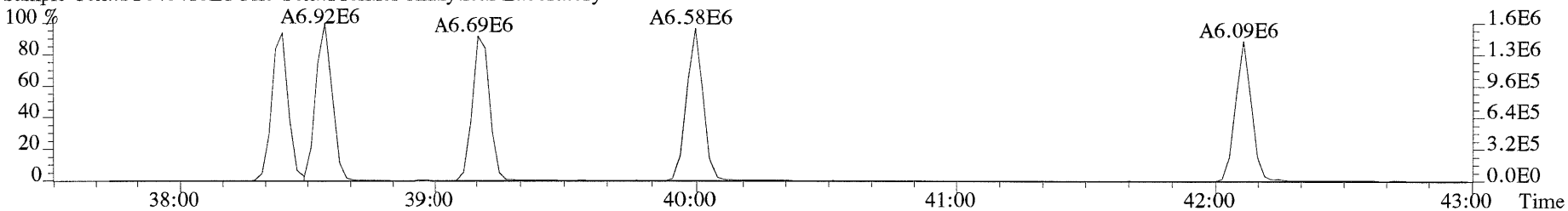
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



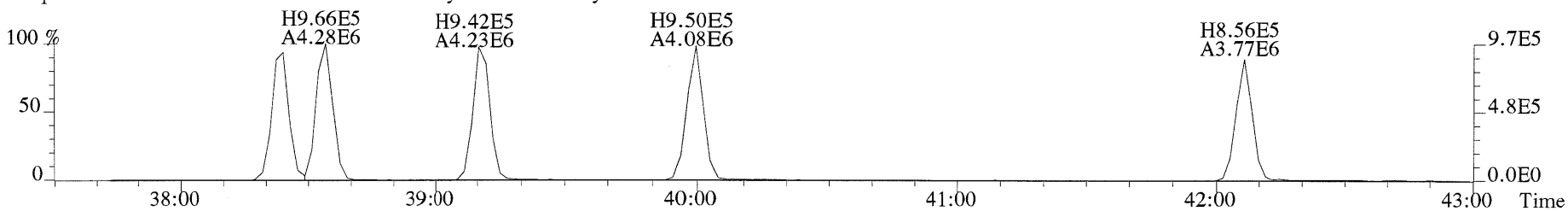
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



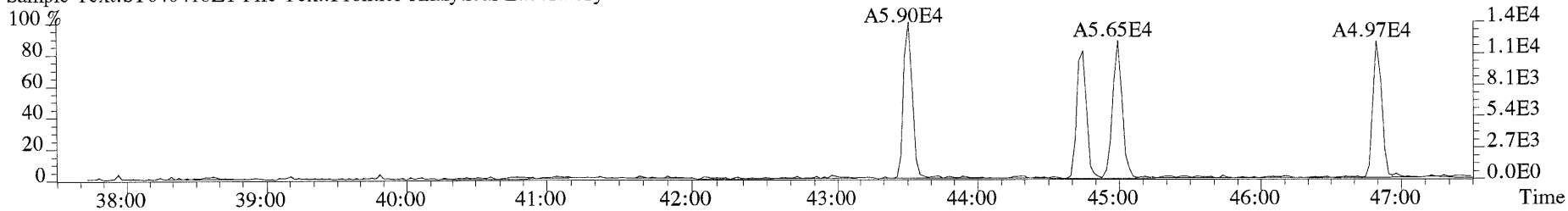
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



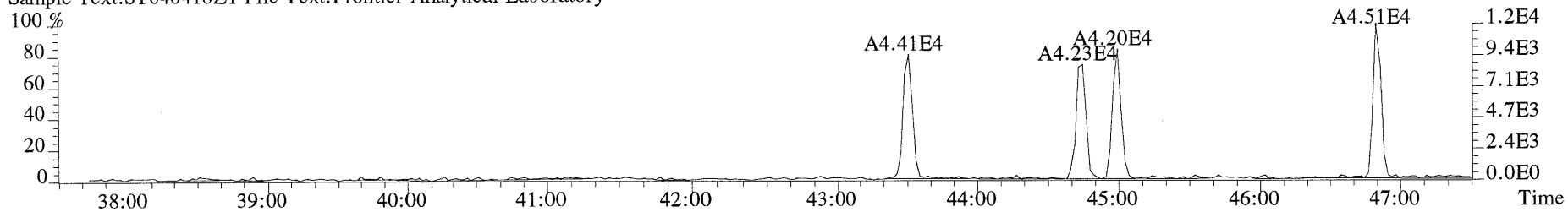
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



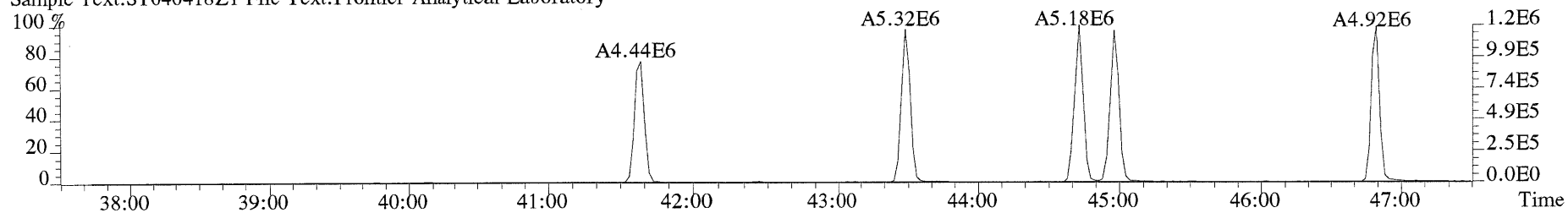
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



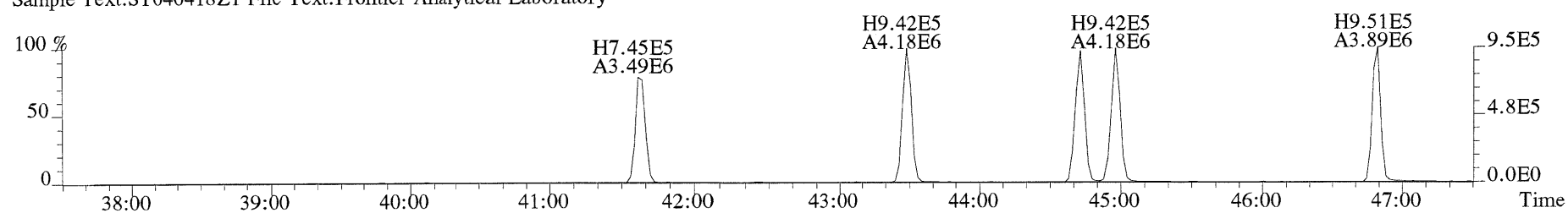
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



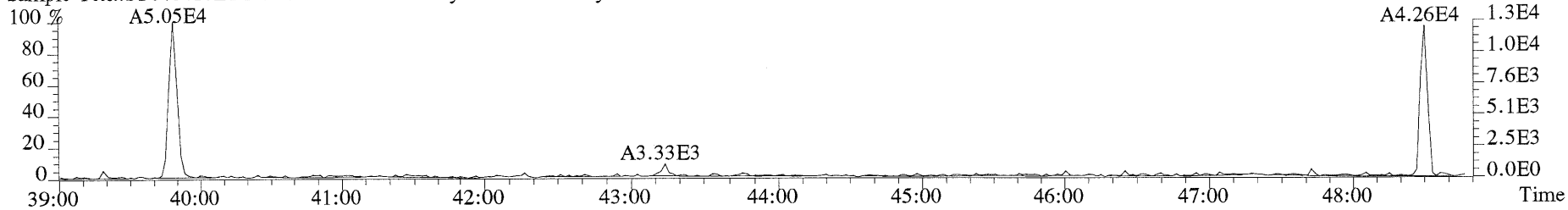
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



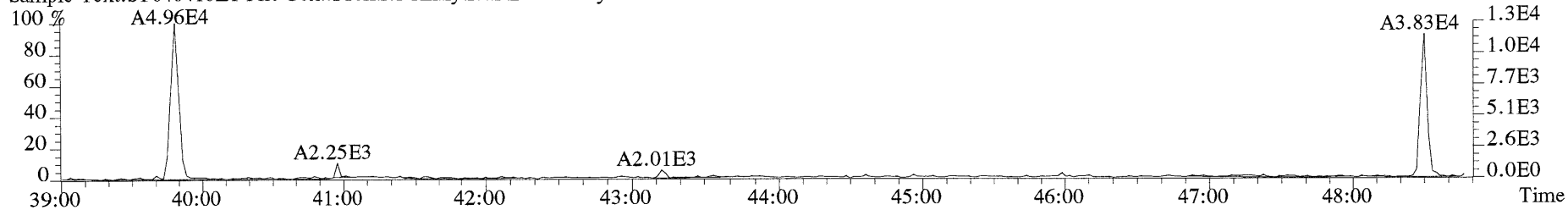
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



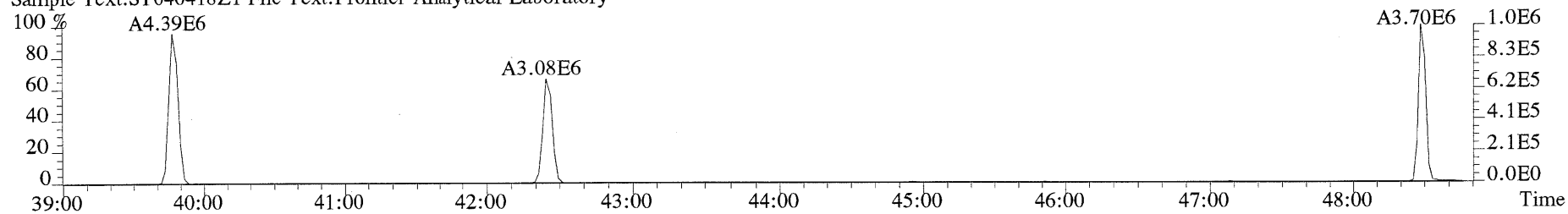
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



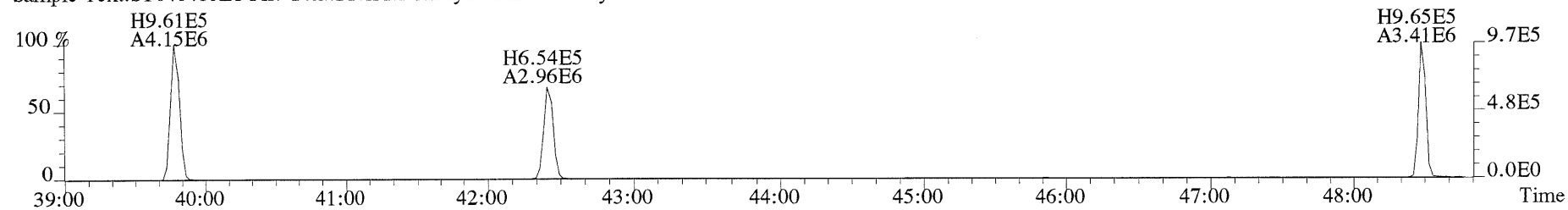
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



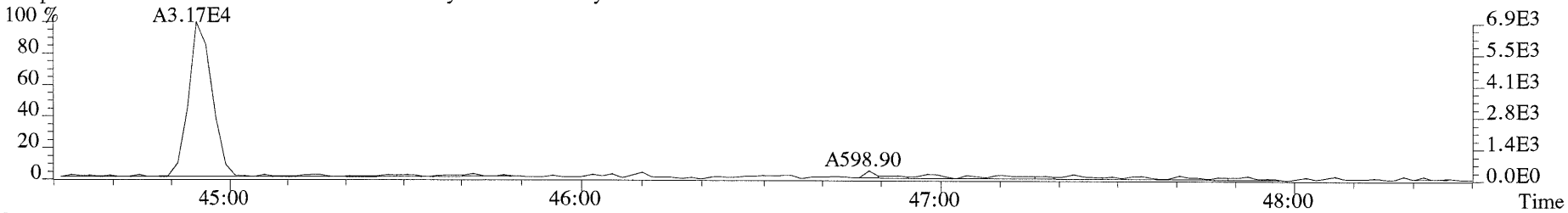
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



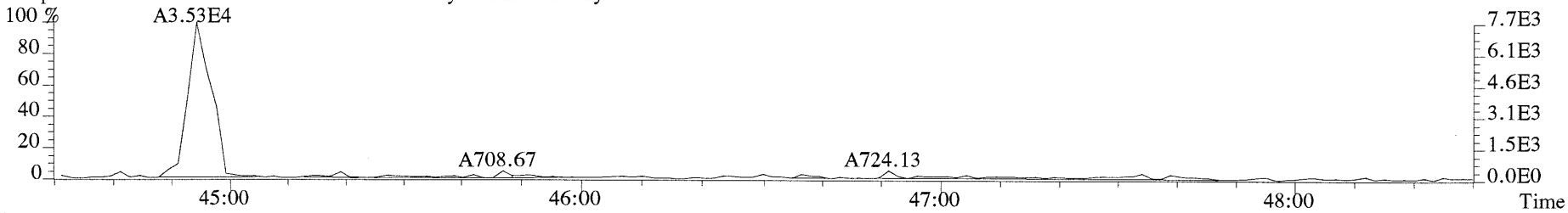
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



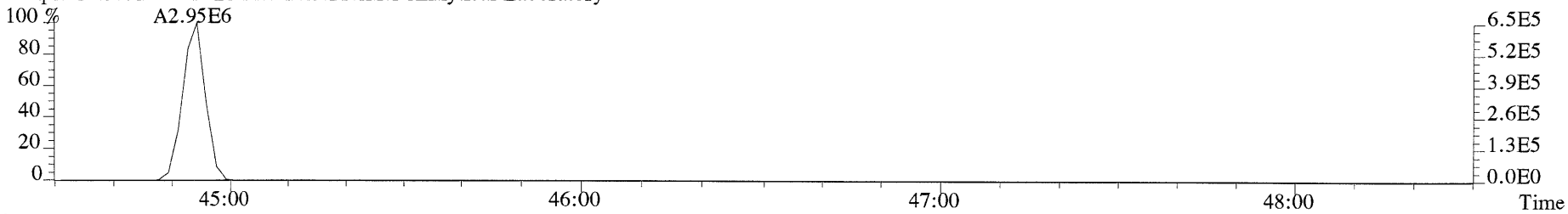
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



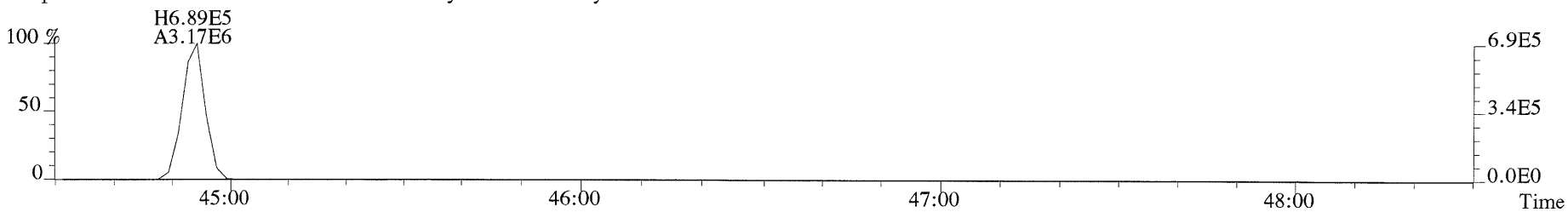
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



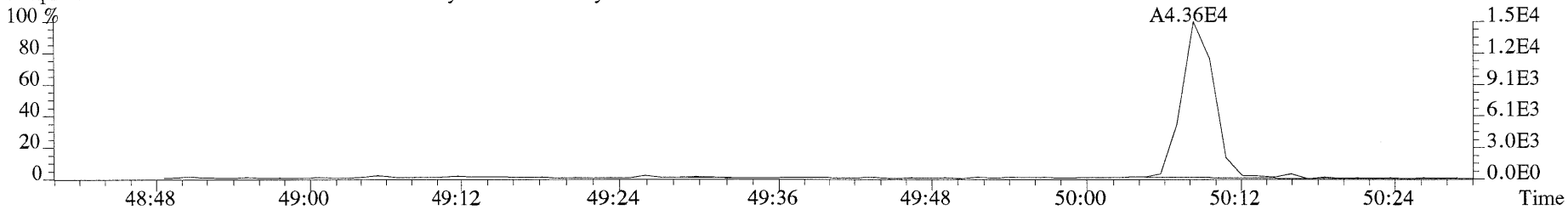
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



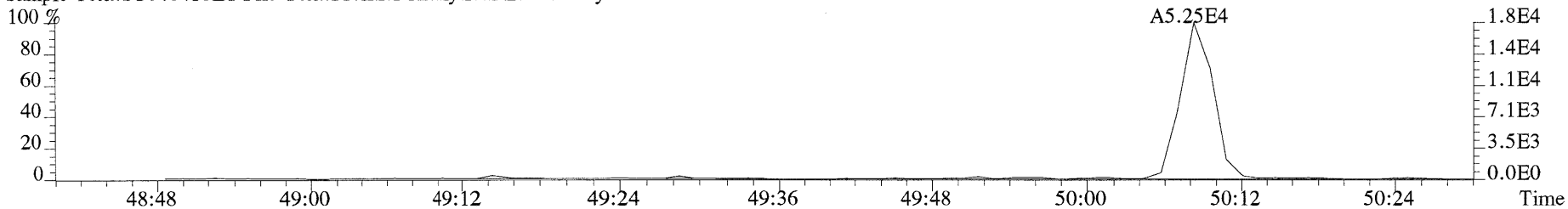
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



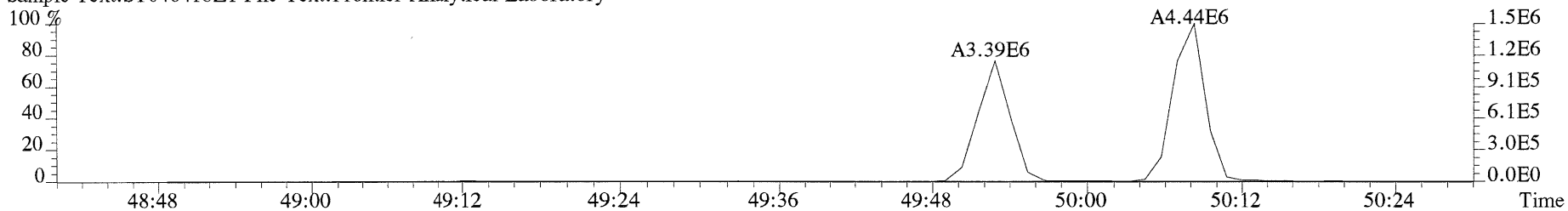
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



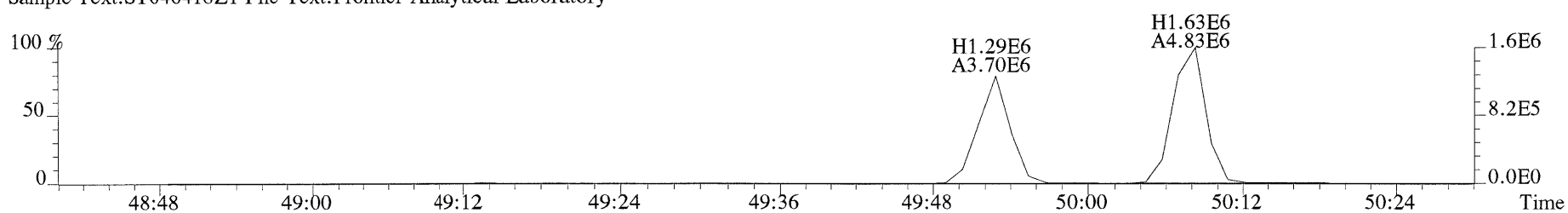
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



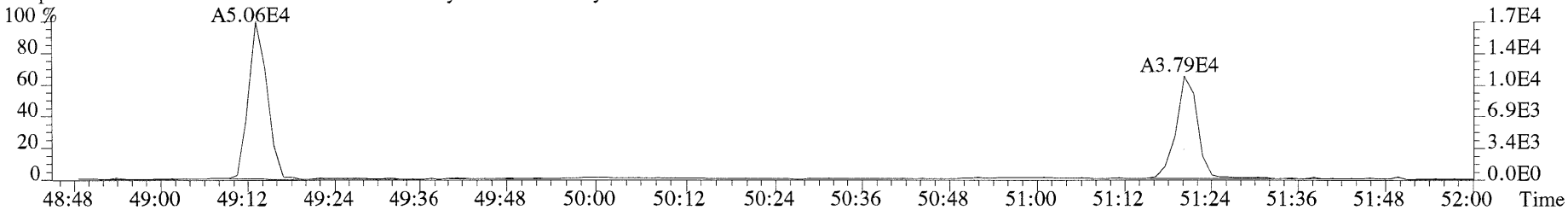
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



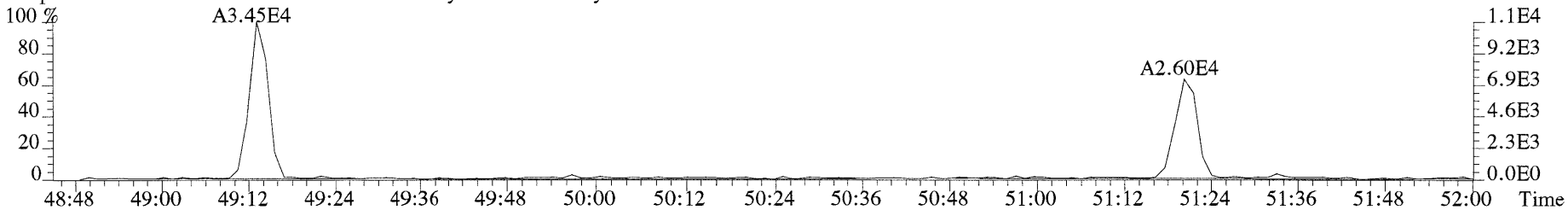
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



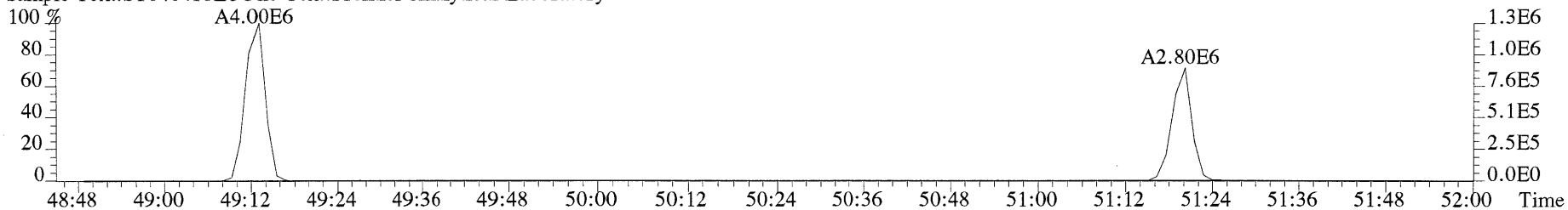
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



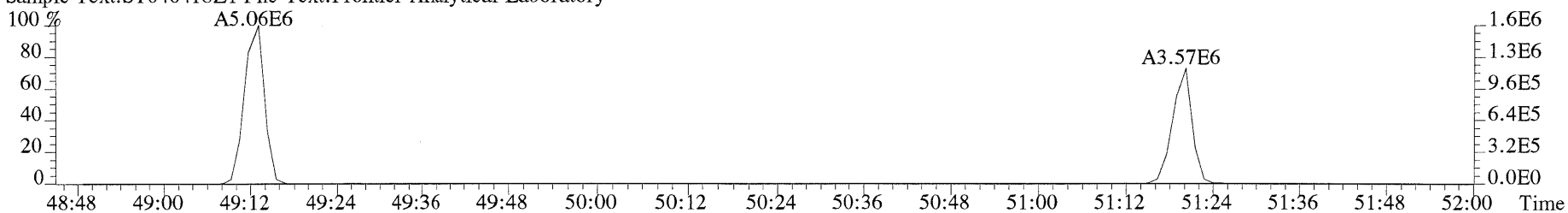
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



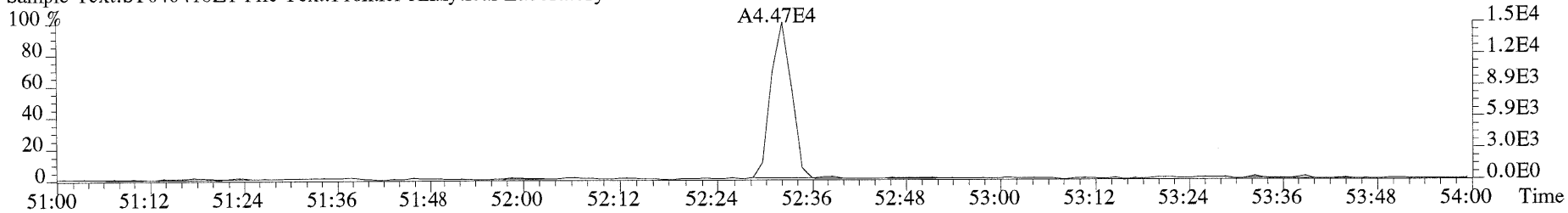
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



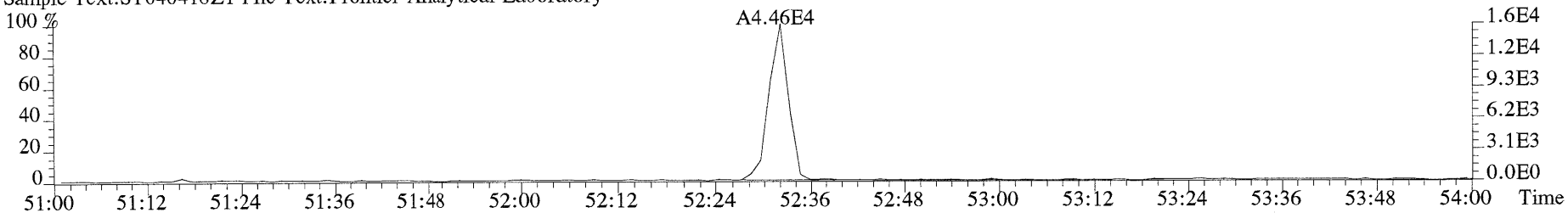
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



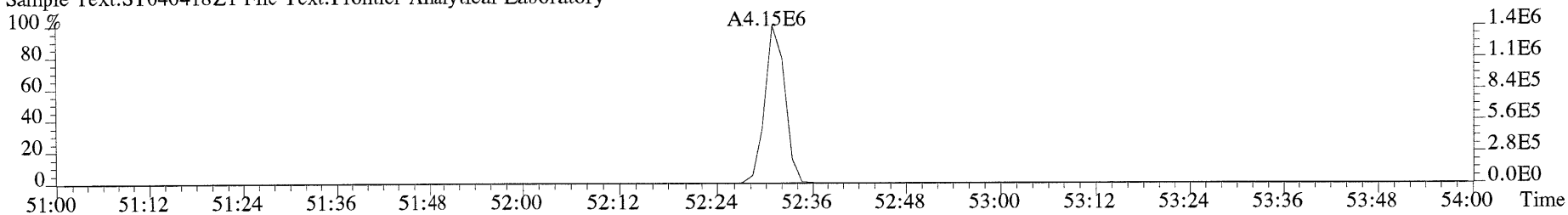
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



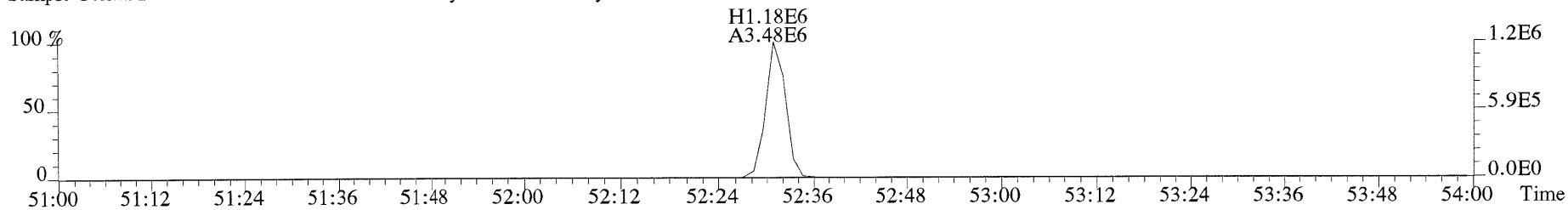
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



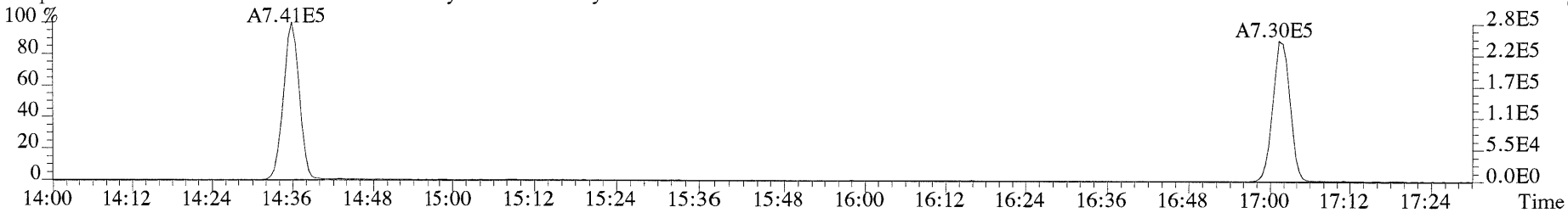
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



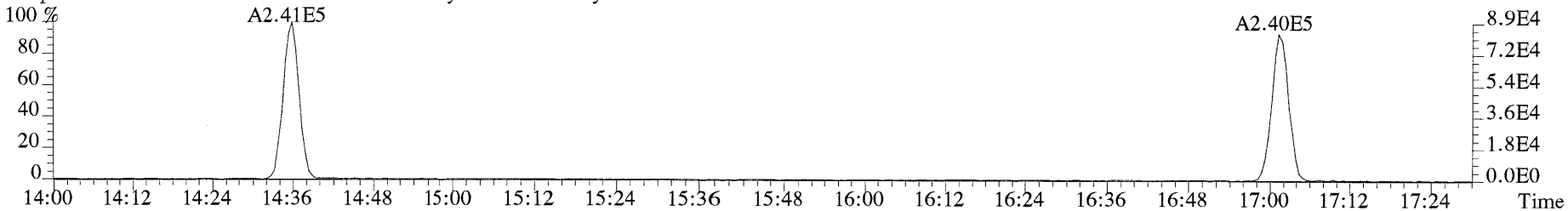
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



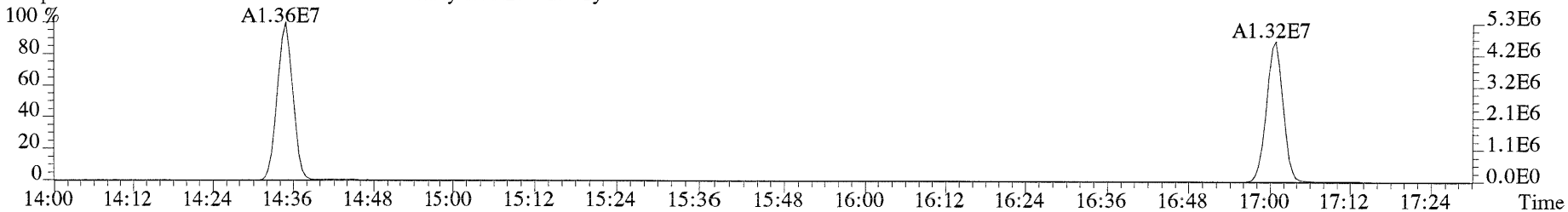
File:04APR18Z #1-783 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



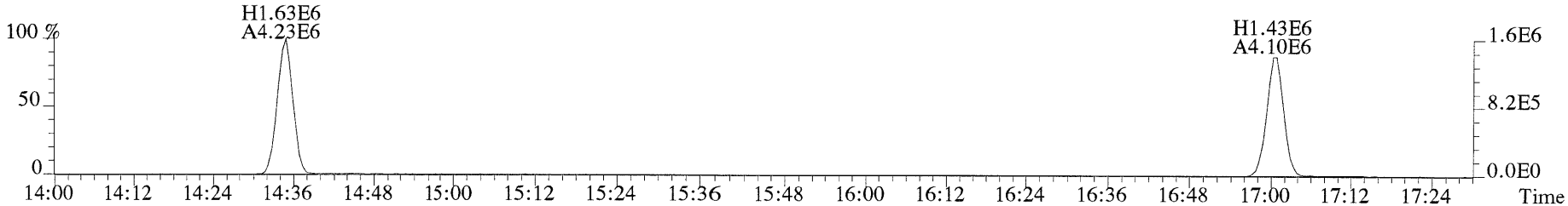
File:04APR18Z #1-783 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



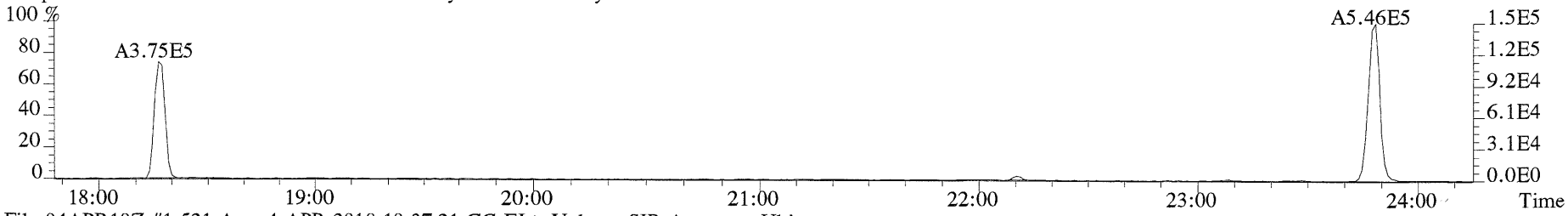
File:04APR18Z #1-783 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



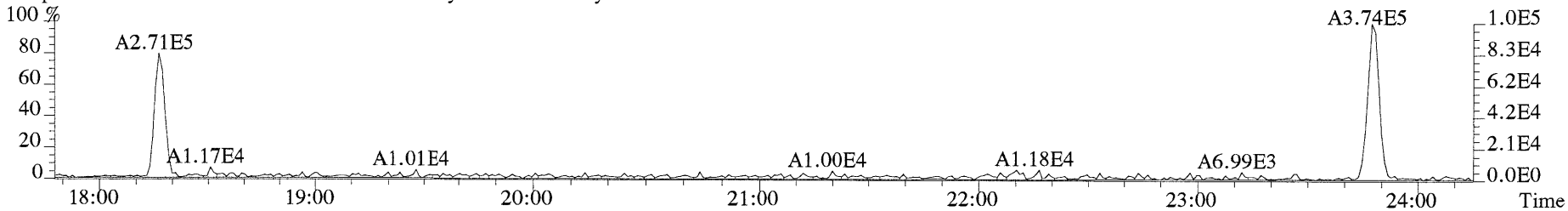
File:04APR18Z #1-783 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



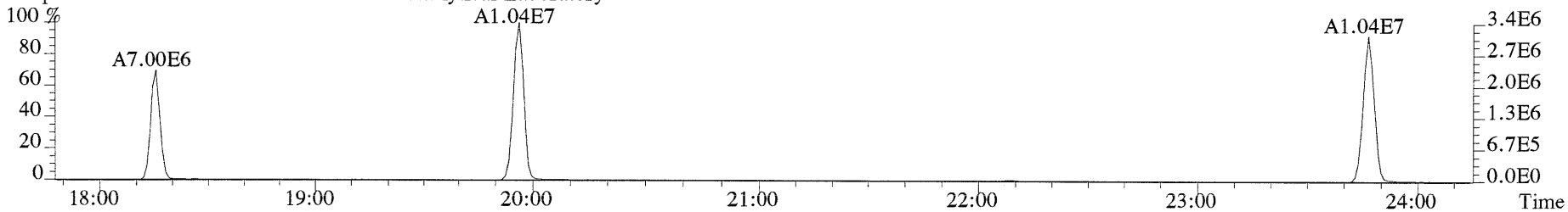
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



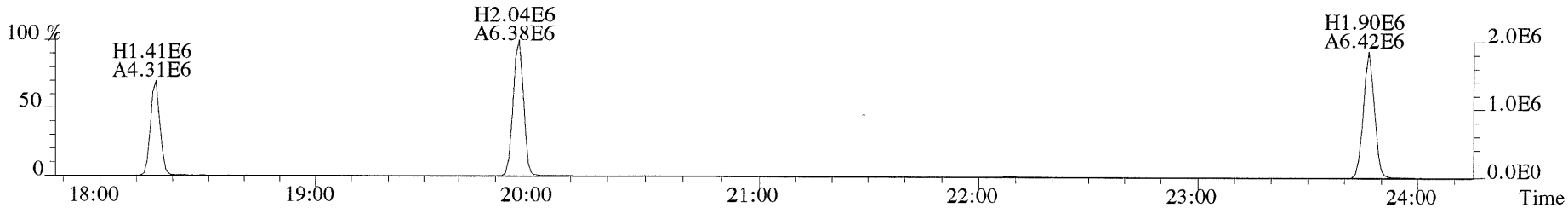
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



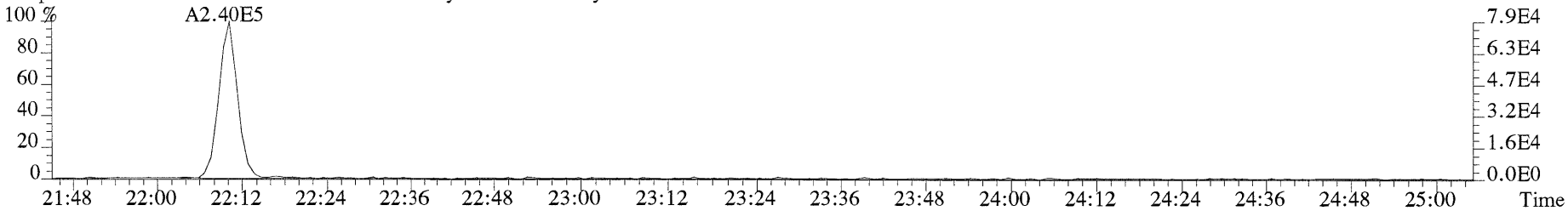
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



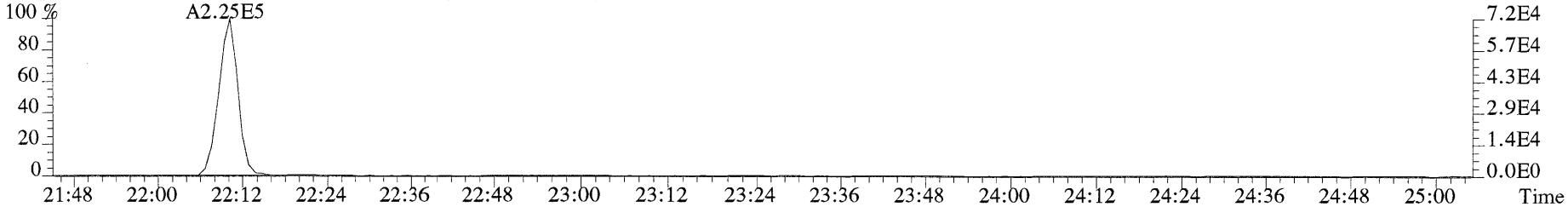
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



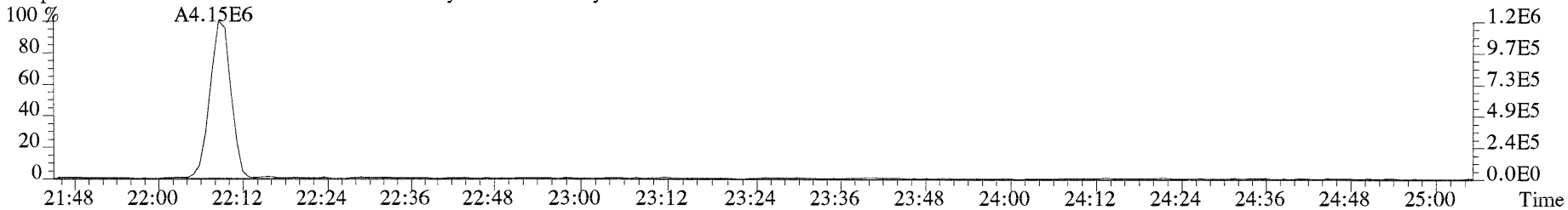
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



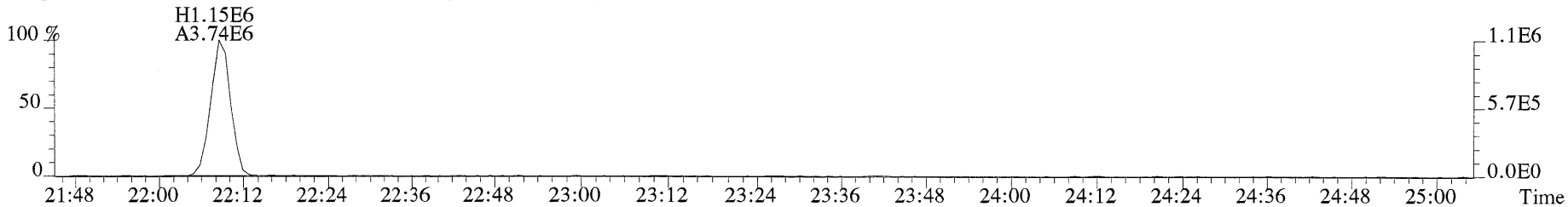
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



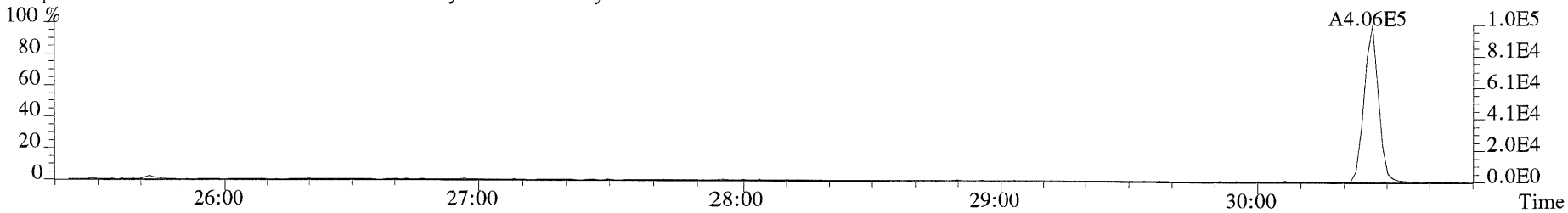
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



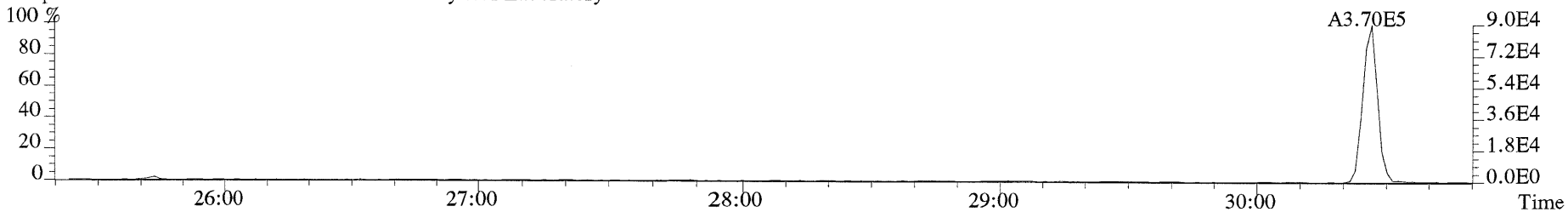
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



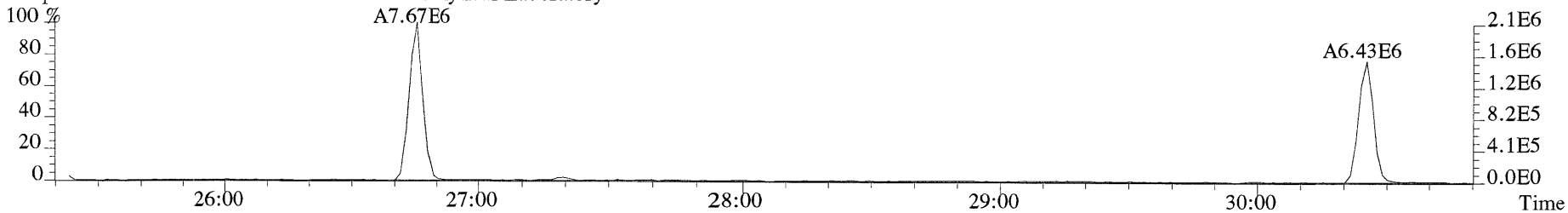
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



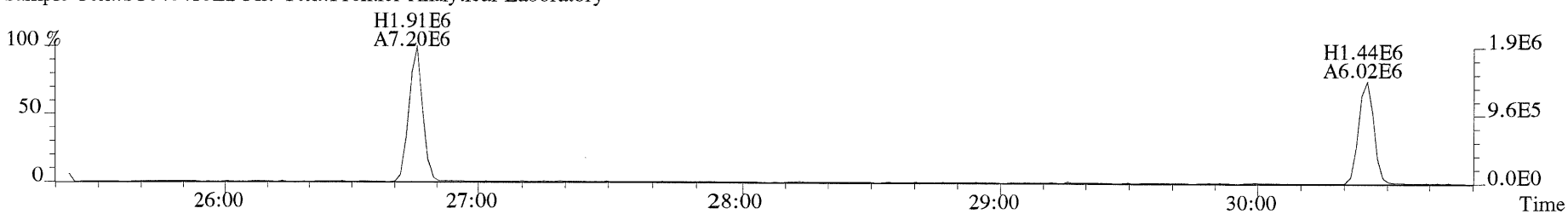
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



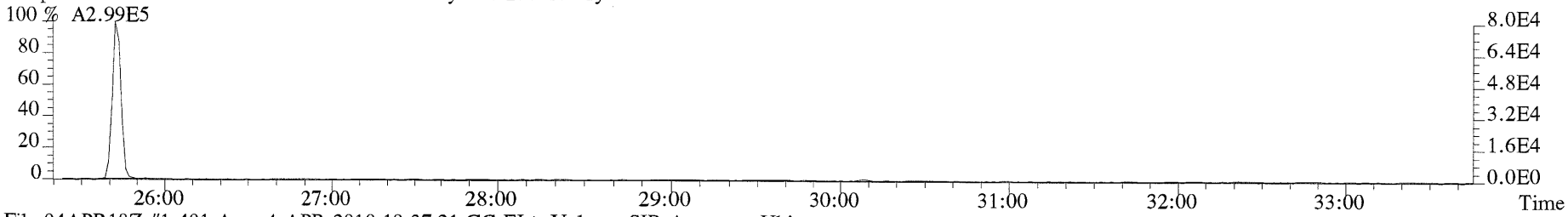
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



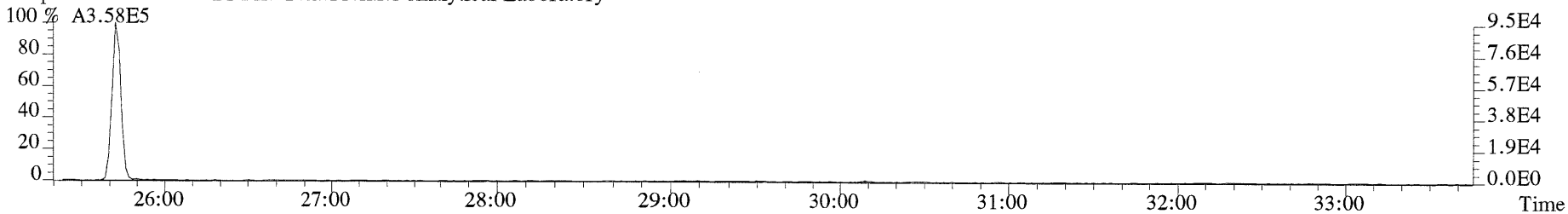
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



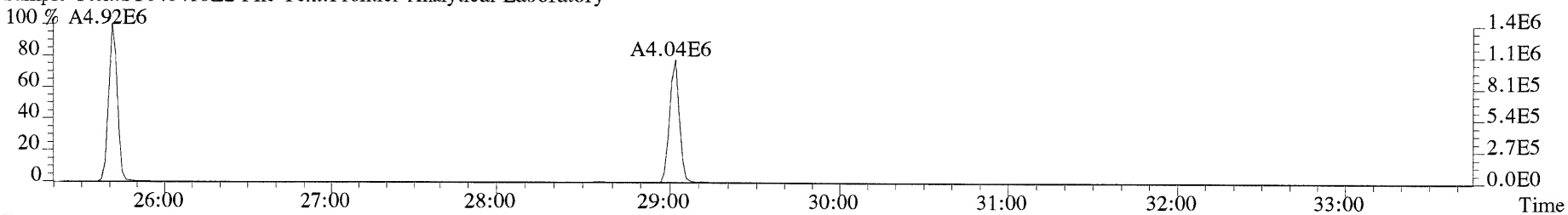
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



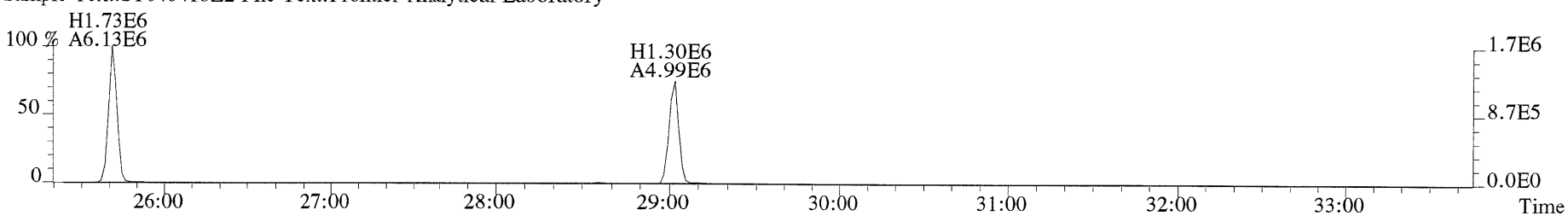
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



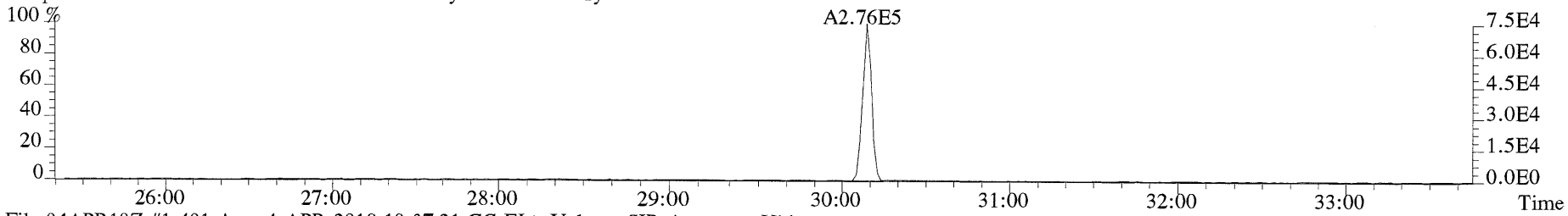
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



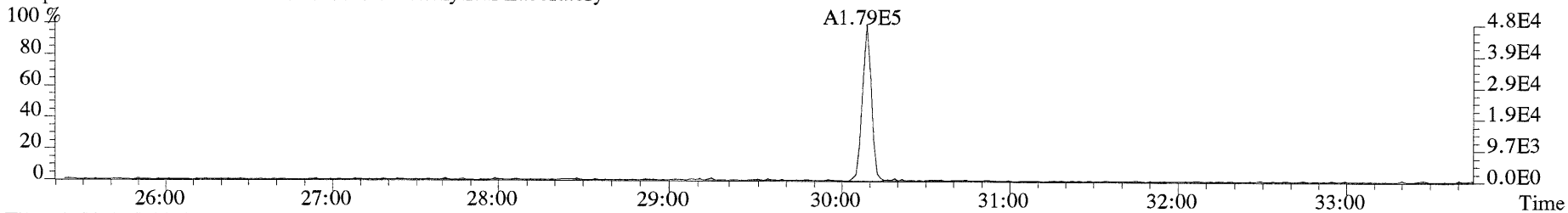
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



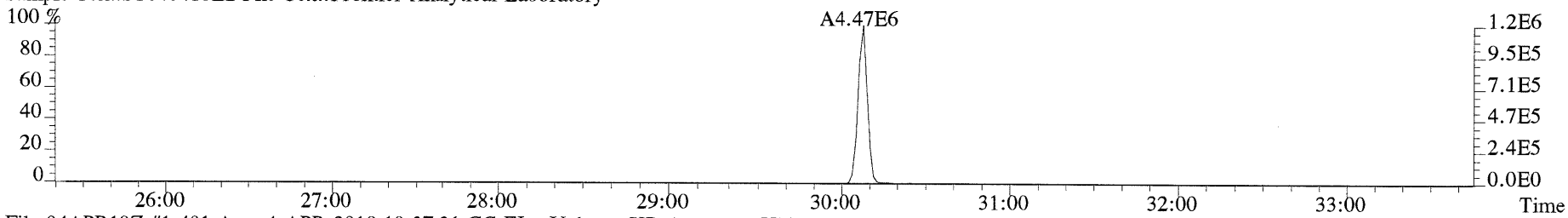
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



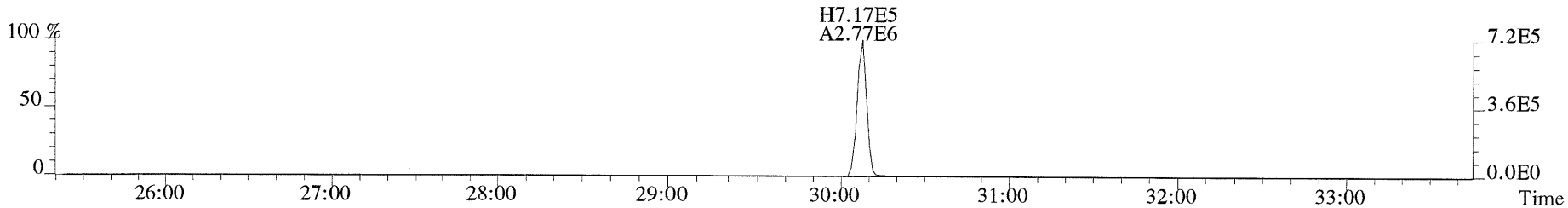
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



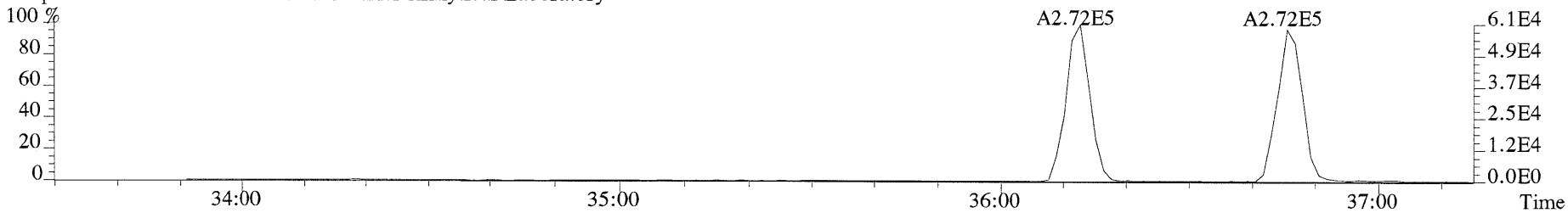
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



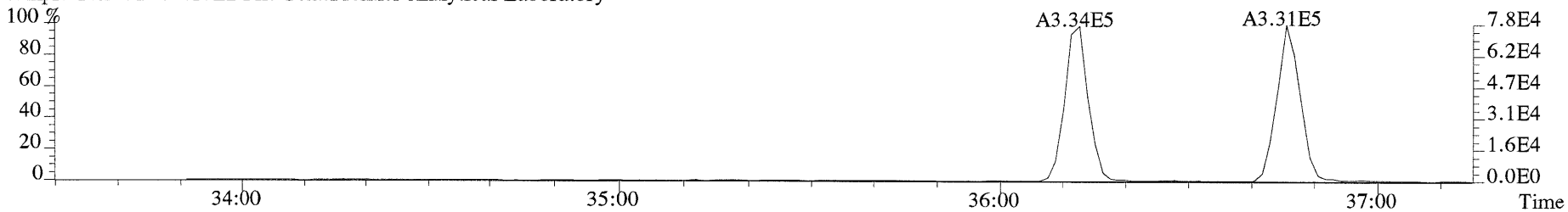
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



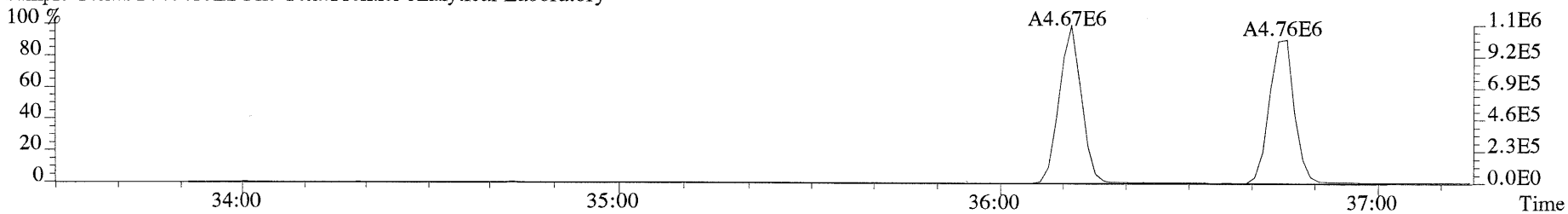
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



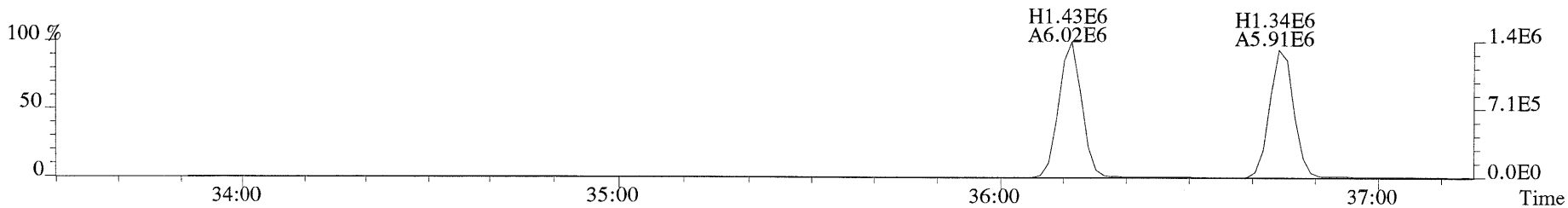
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



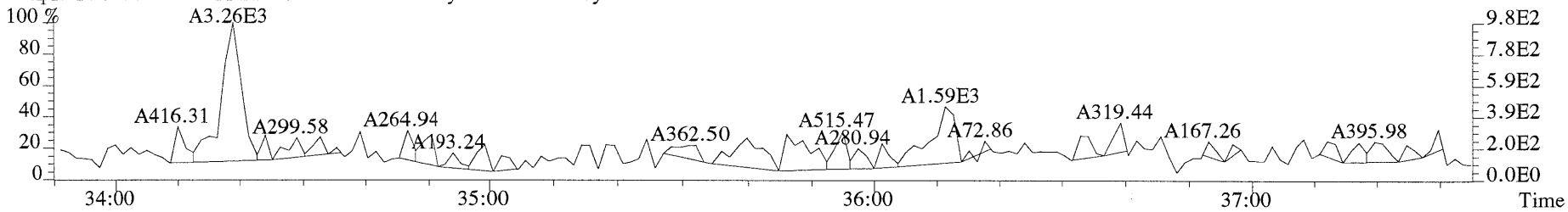
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



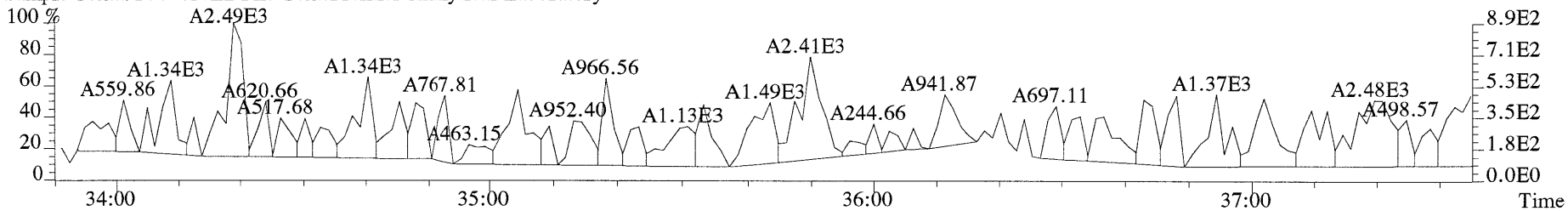
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



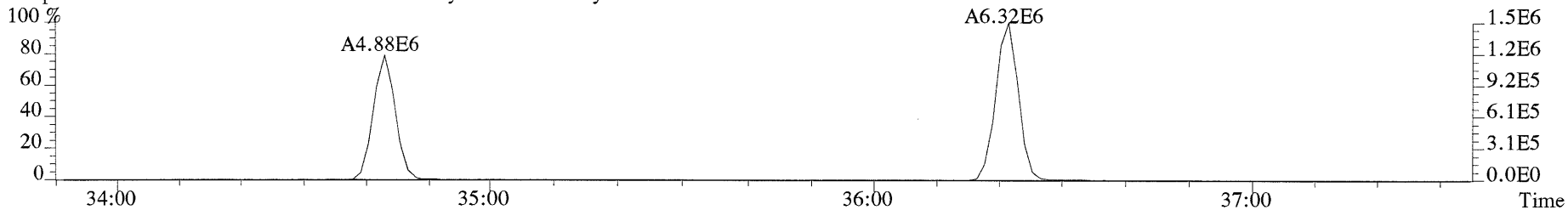
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



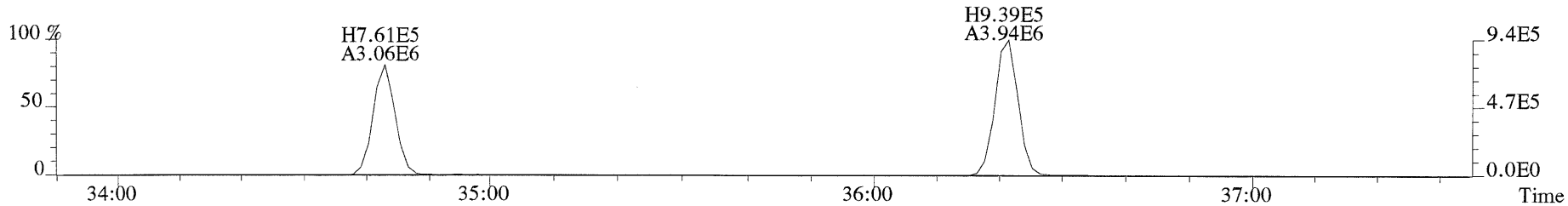
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



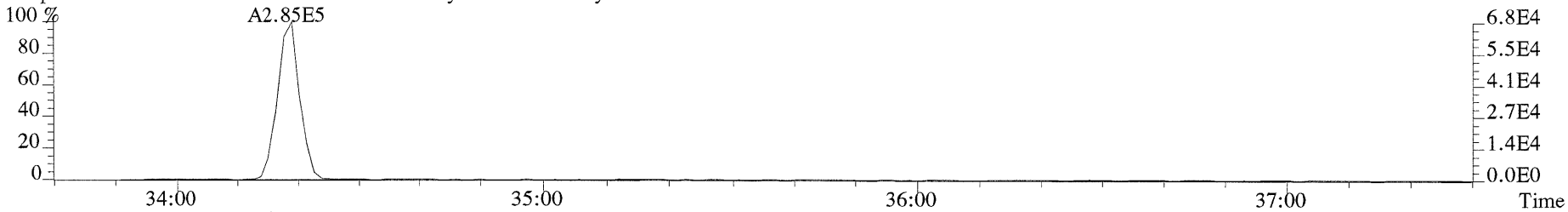
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



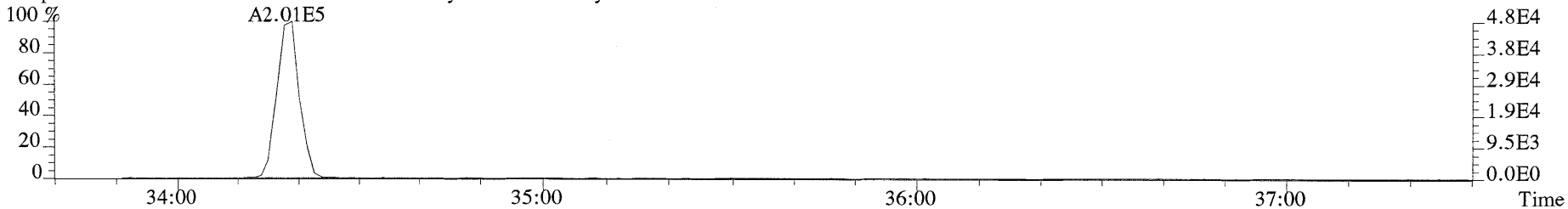
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



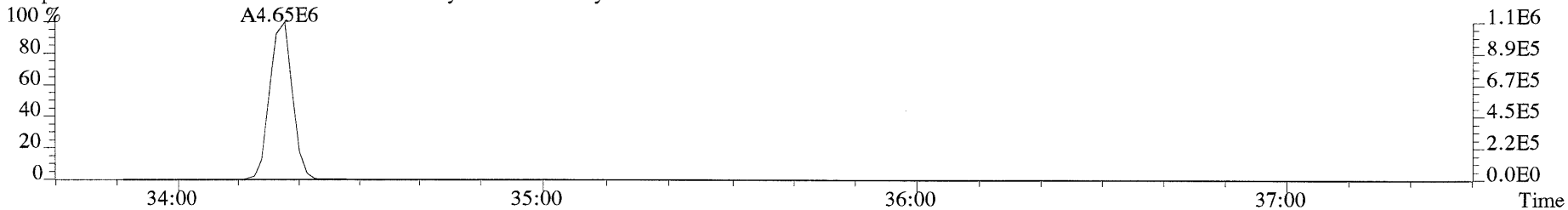
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



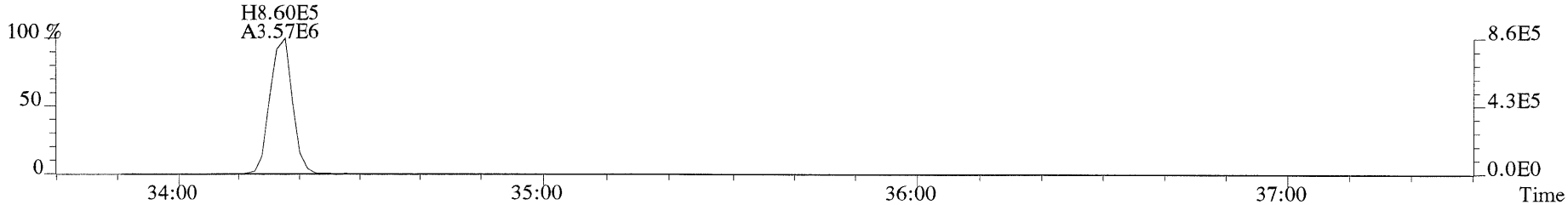
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



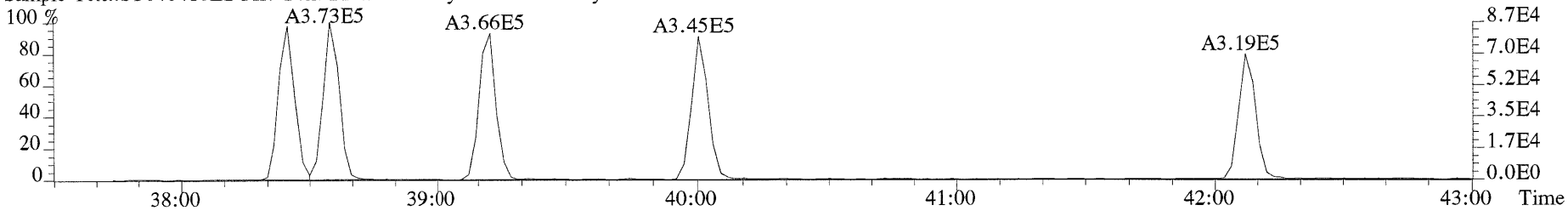
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



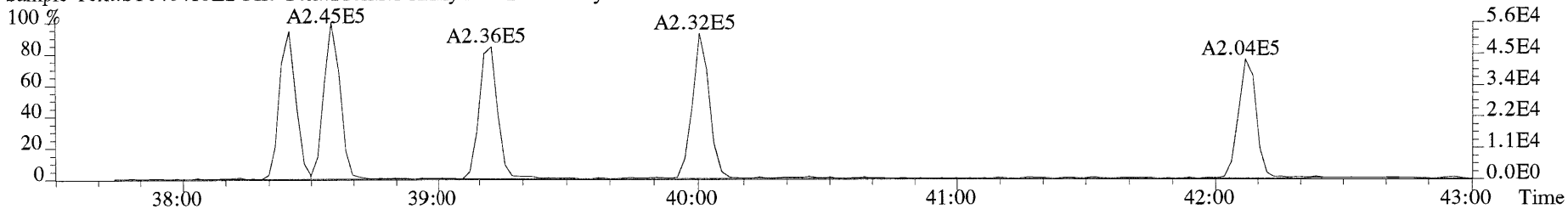
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



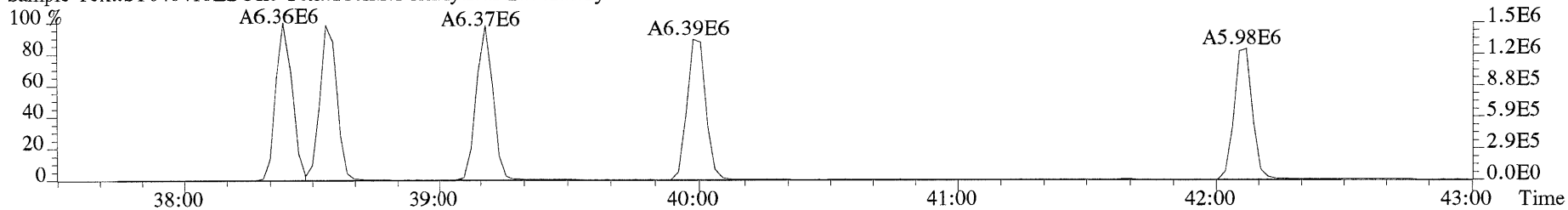
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



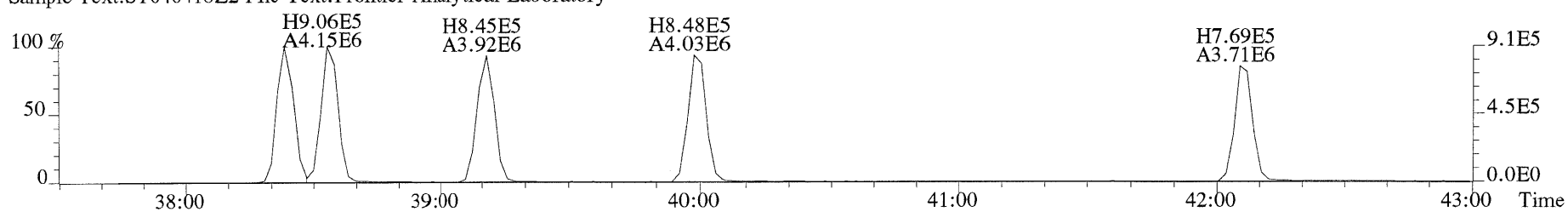
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



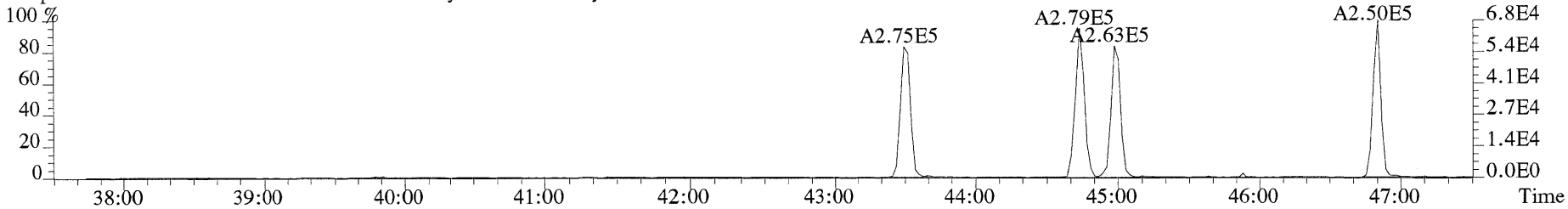
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



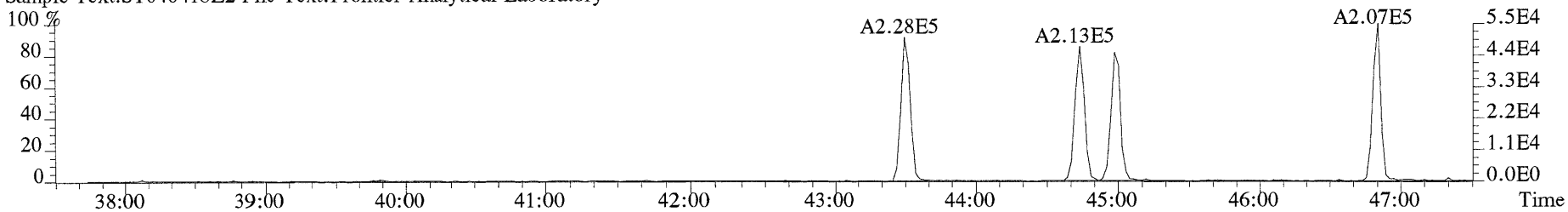
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



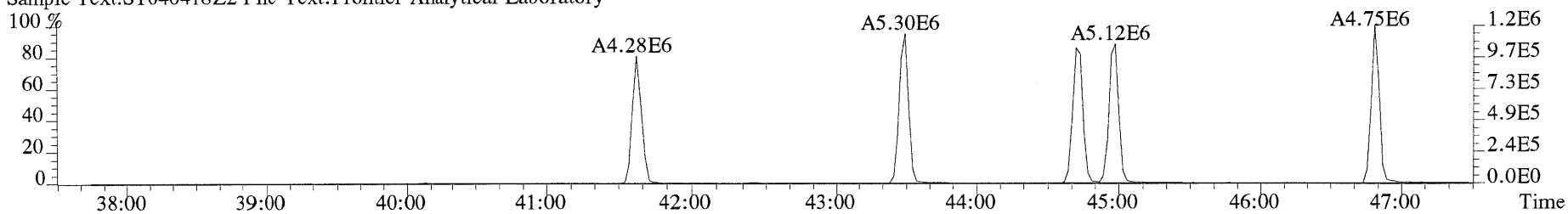
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



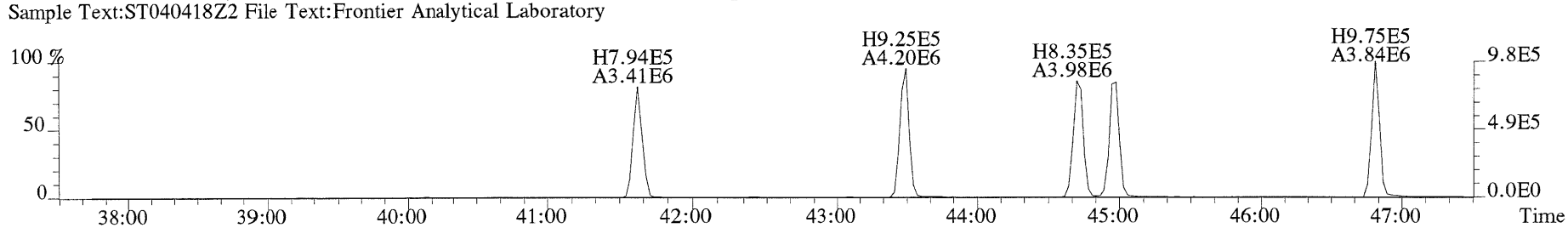
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



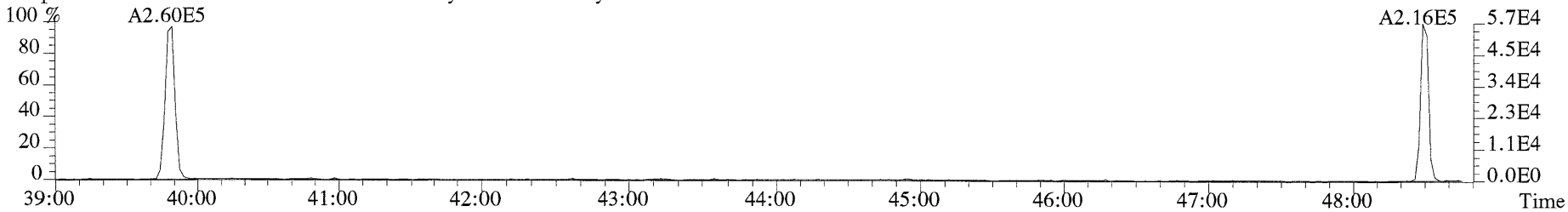
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



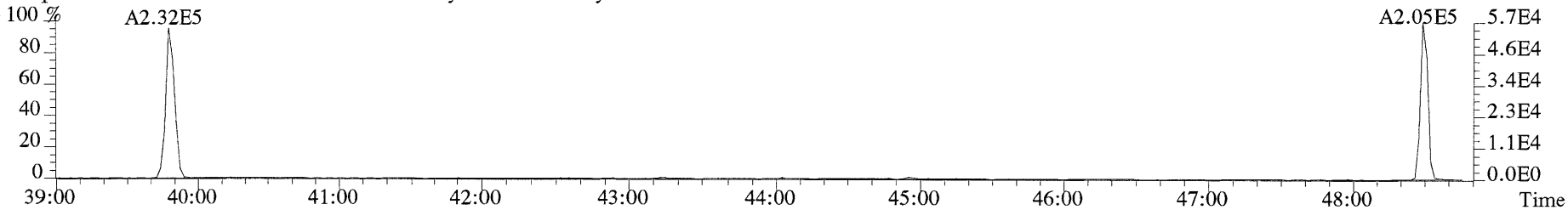
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



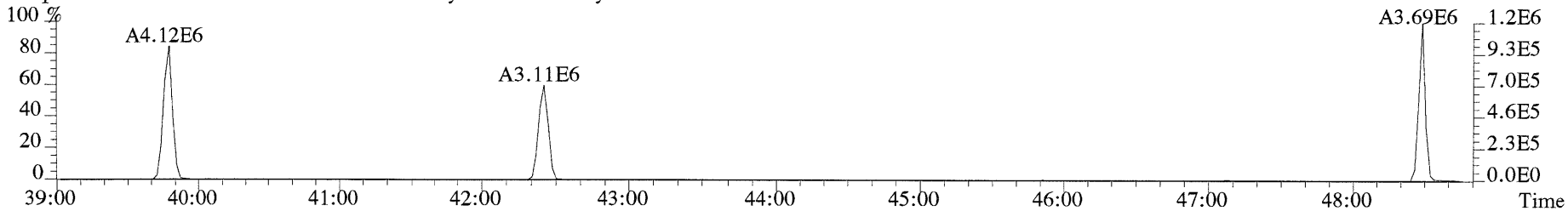
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



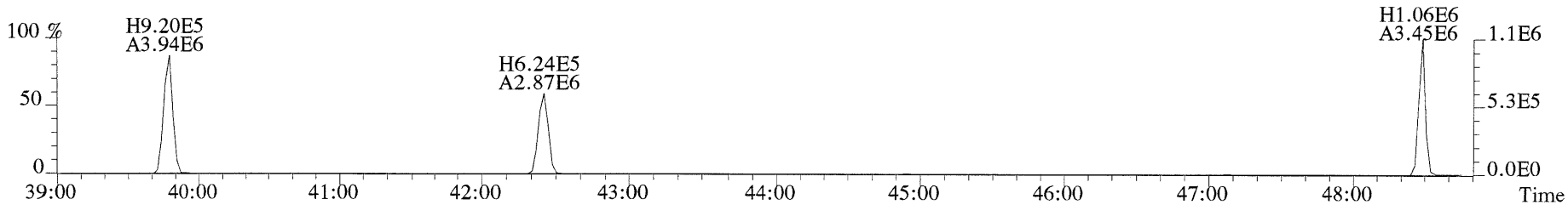
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



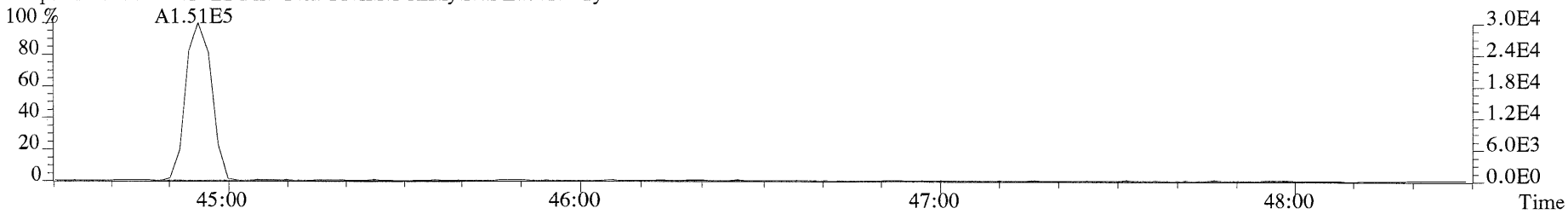
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



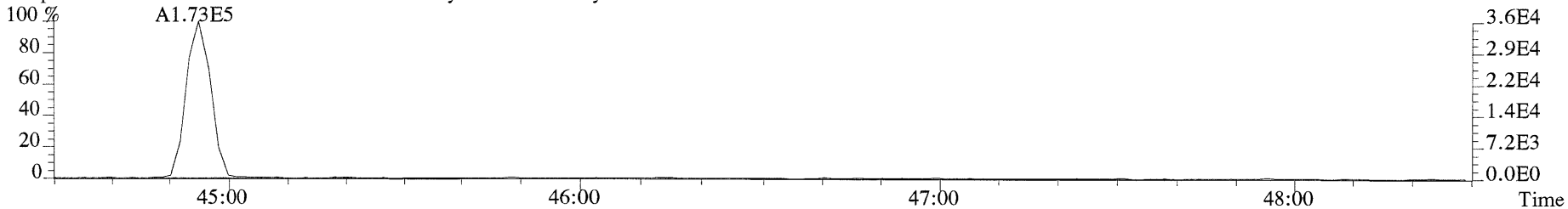
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



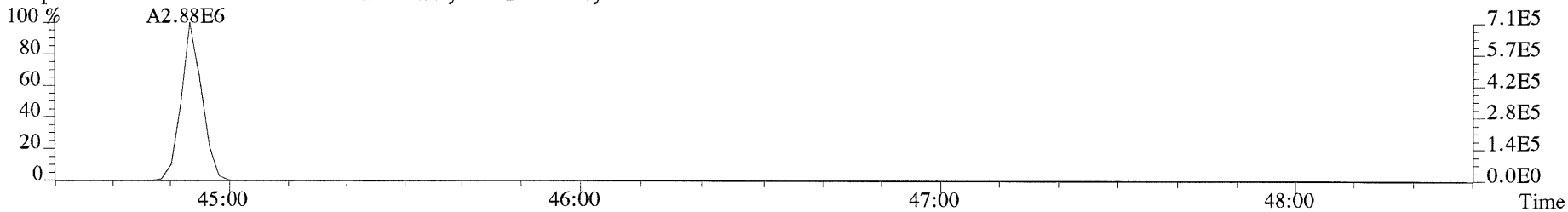
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



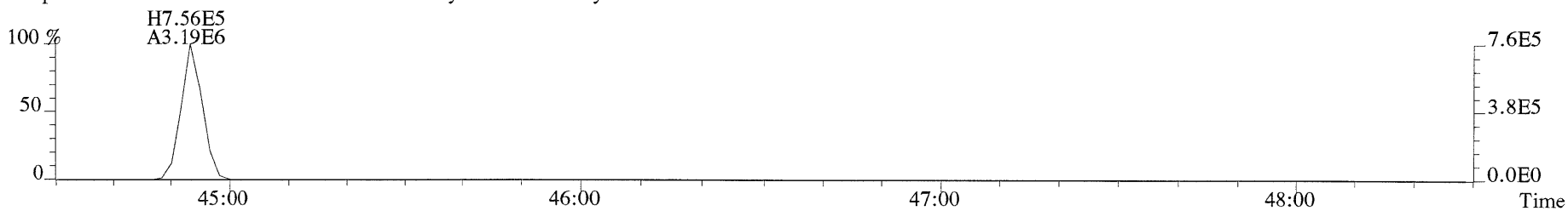
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



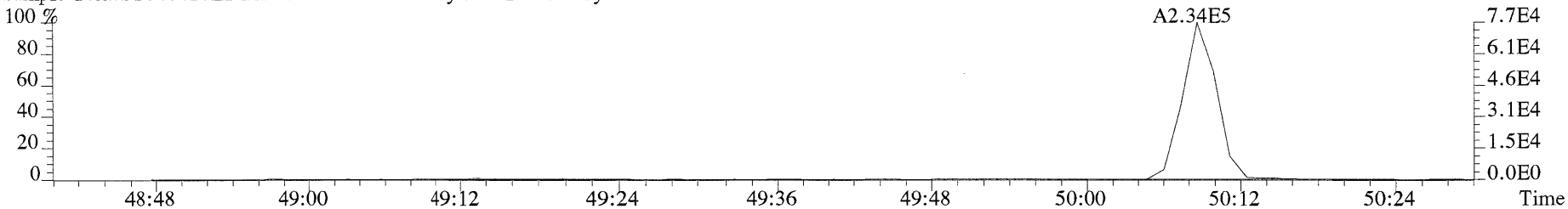
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



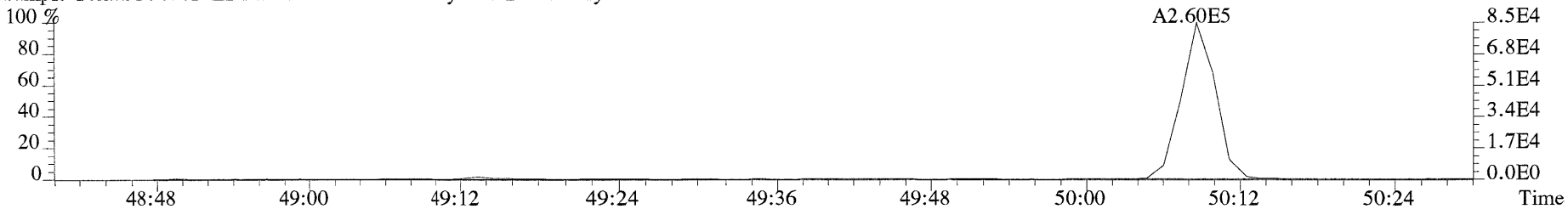
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



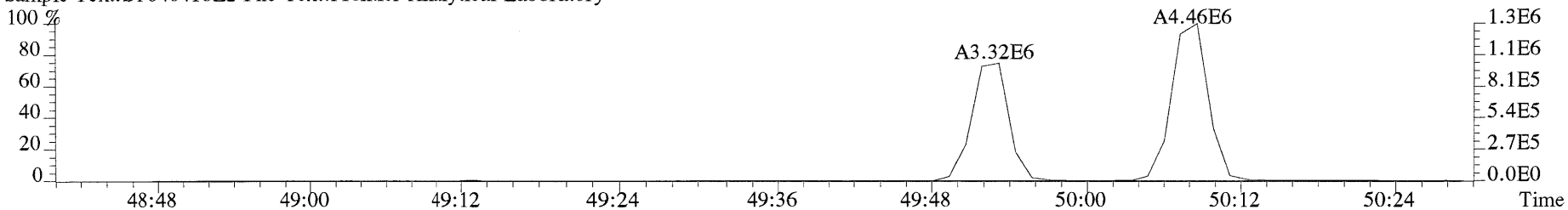
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



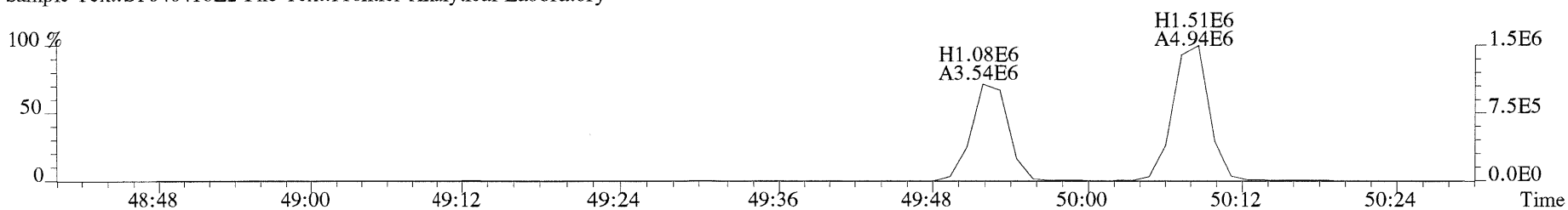
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



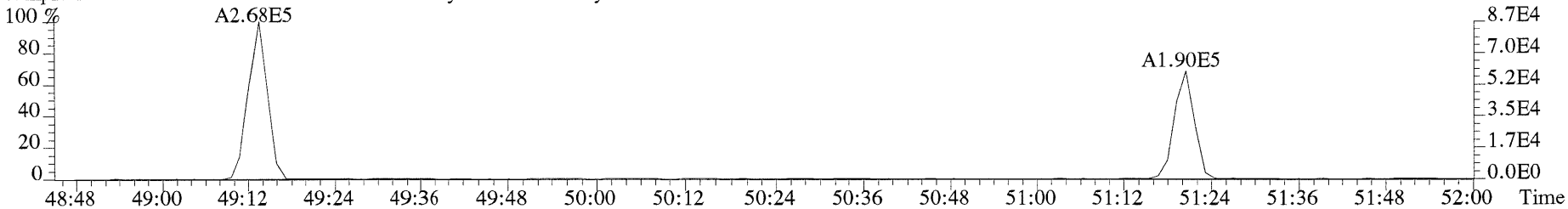
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



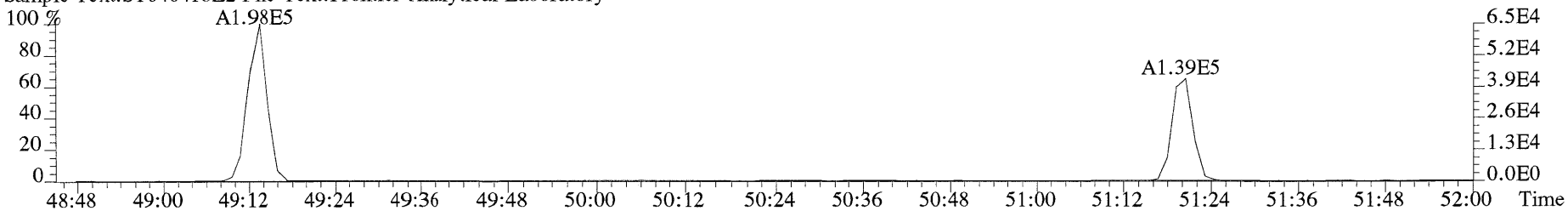
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



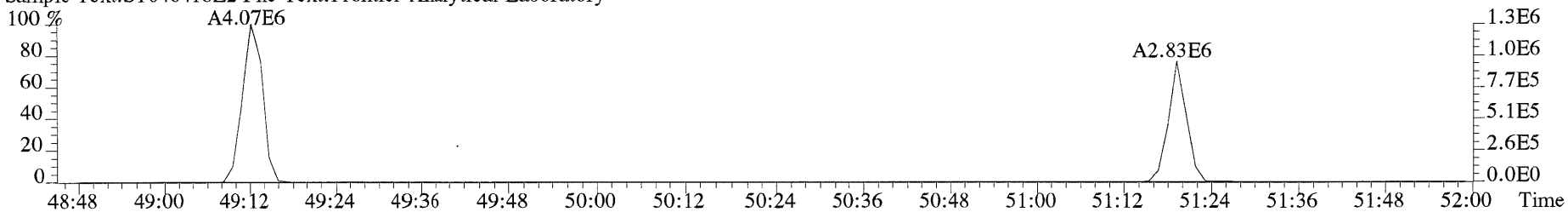
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



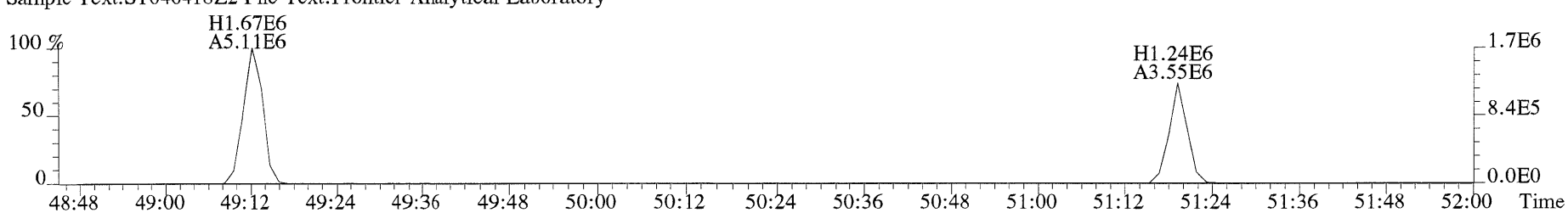
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



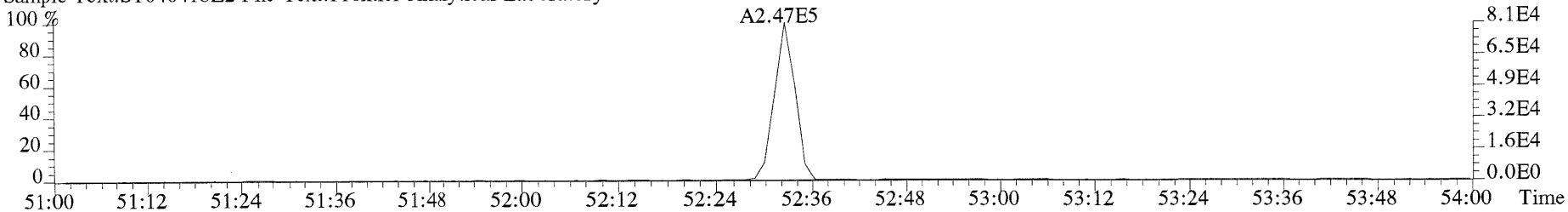
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



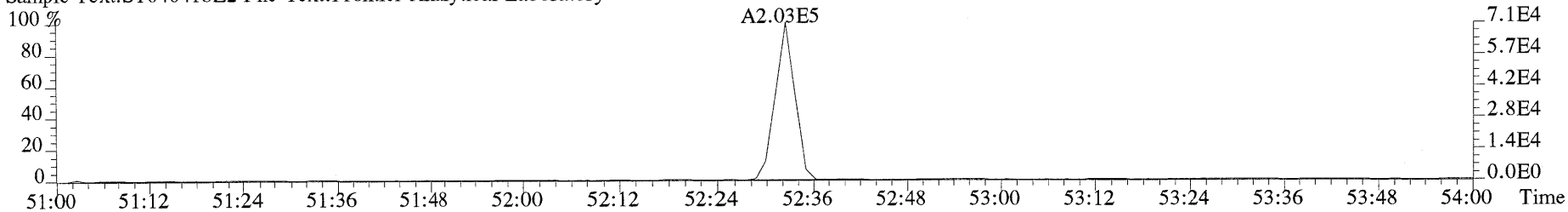
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



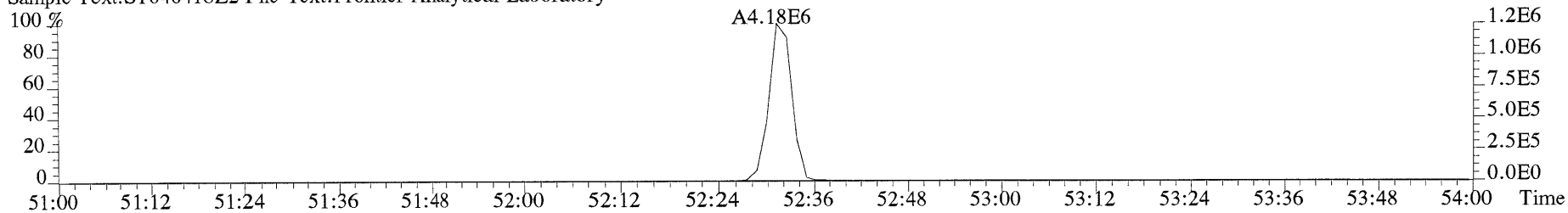
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



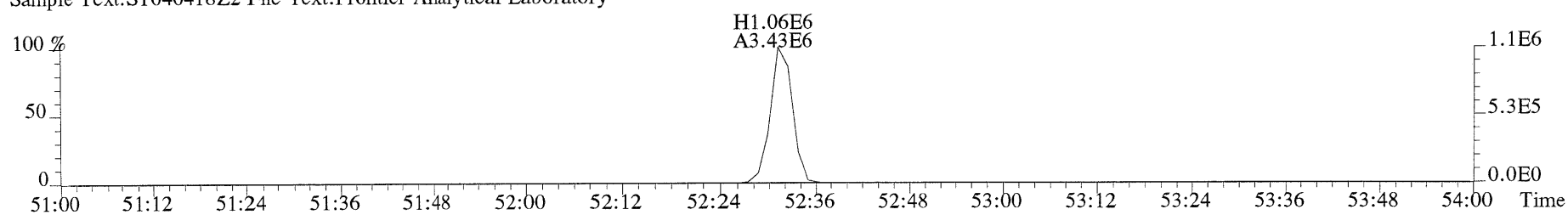
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



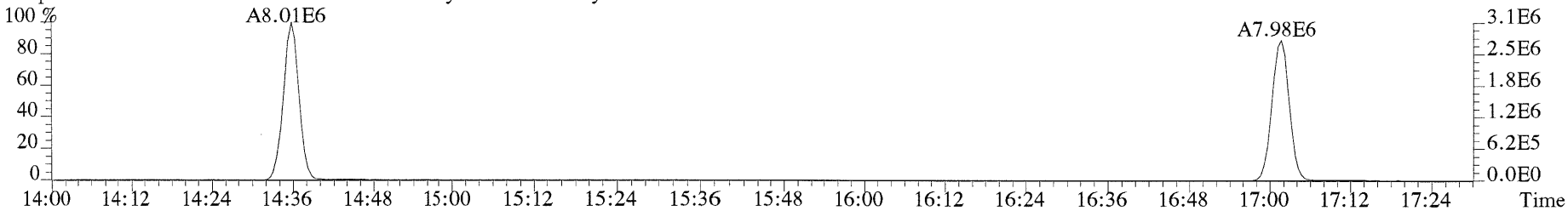
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



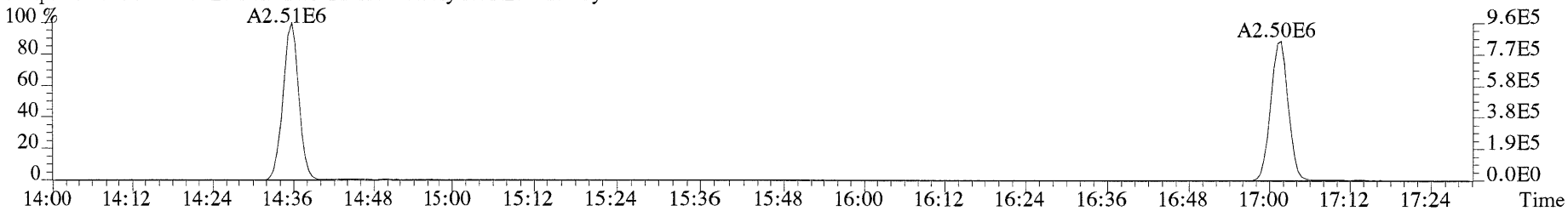
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



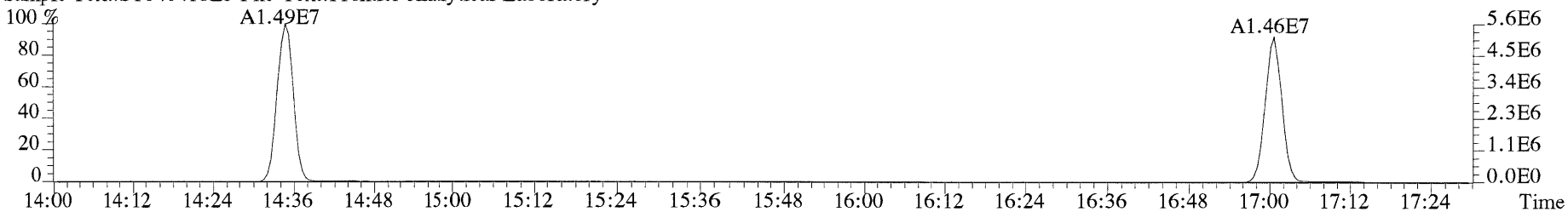
File:04APR18Z #1-784 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



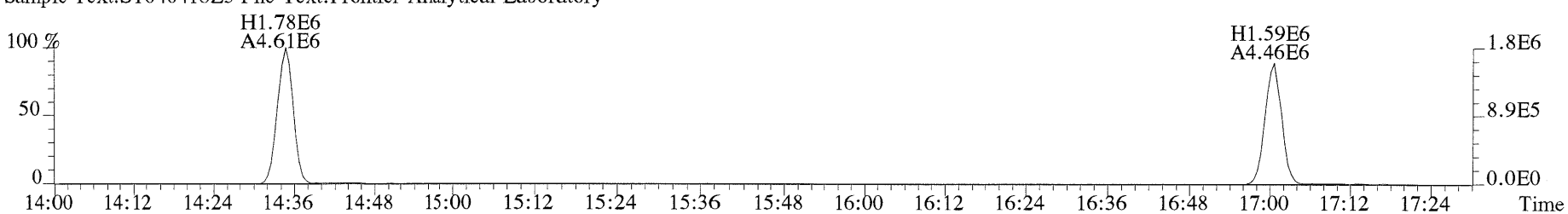
File:04APR18Z #1-784 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



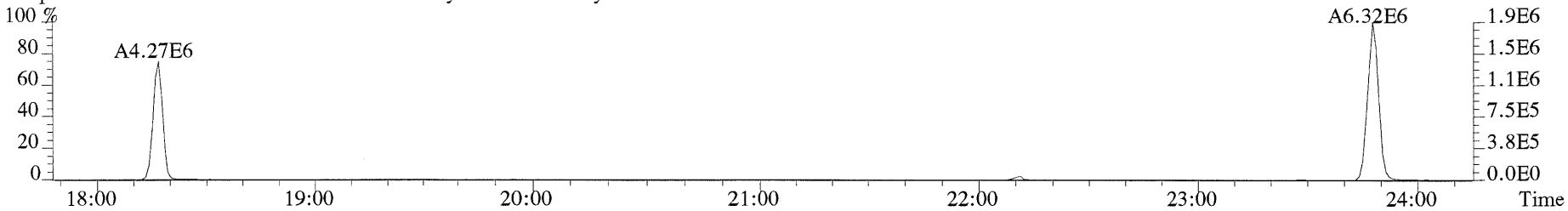
File:04APR18Z #1-784 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



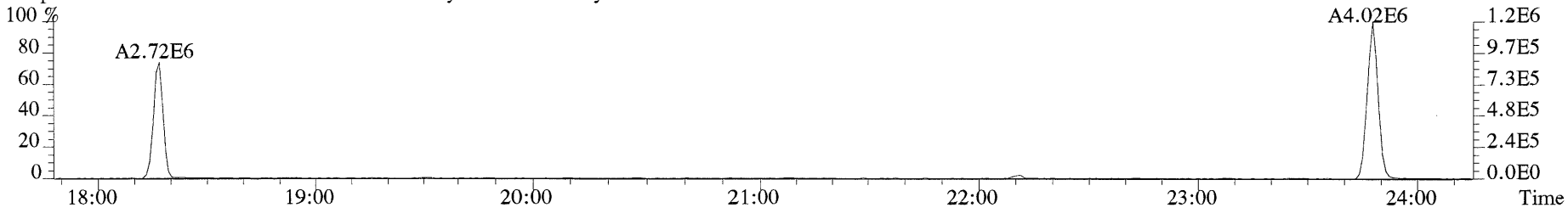
File:04APR18Z #1-784 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



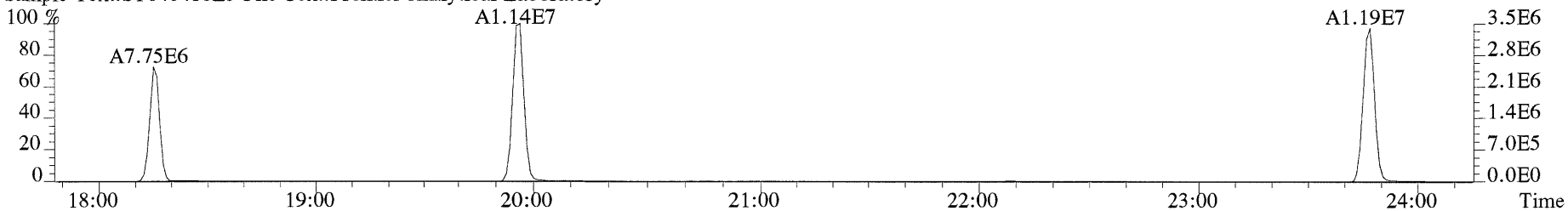
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



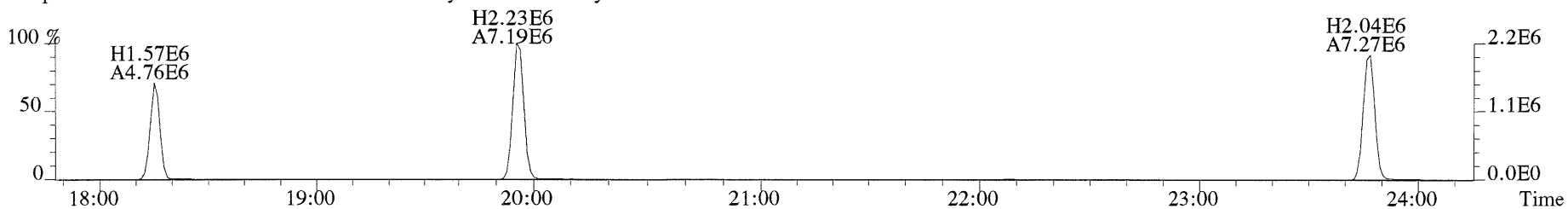
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



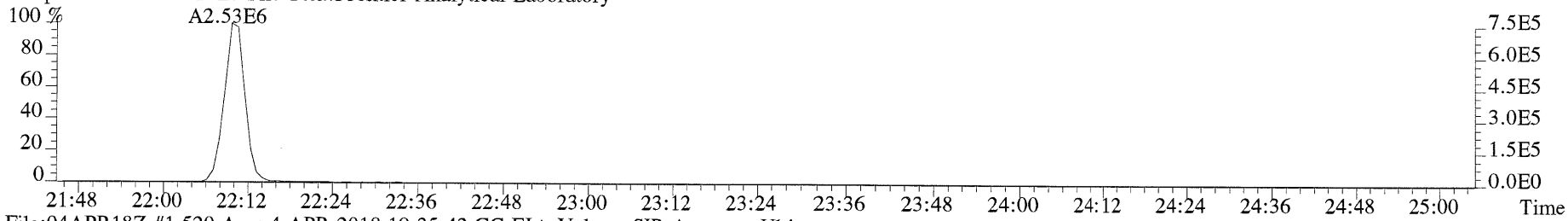
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



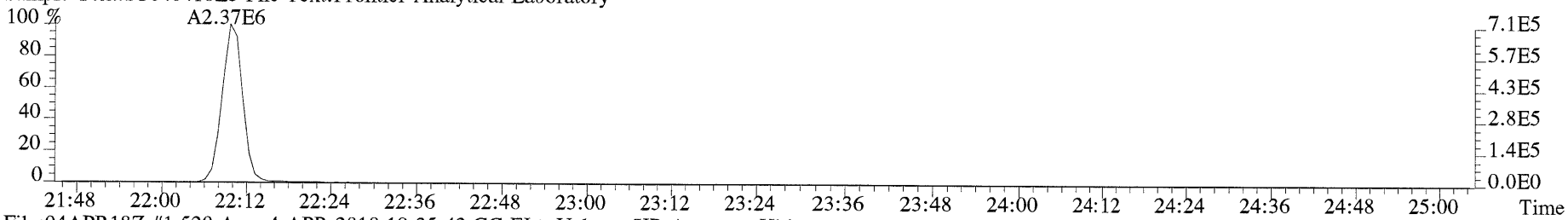
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



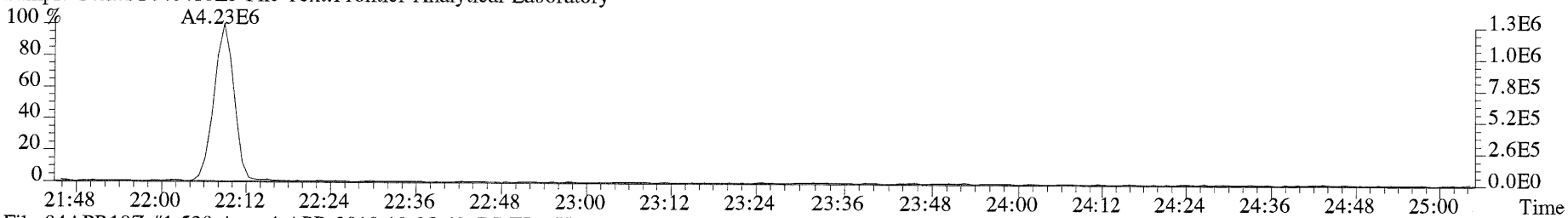
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



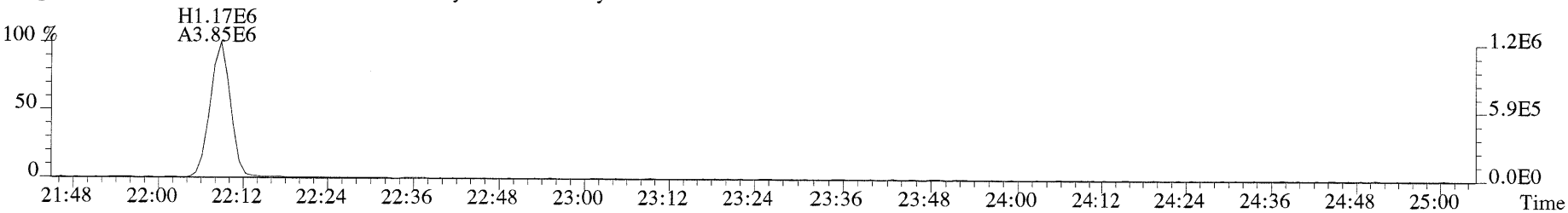
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



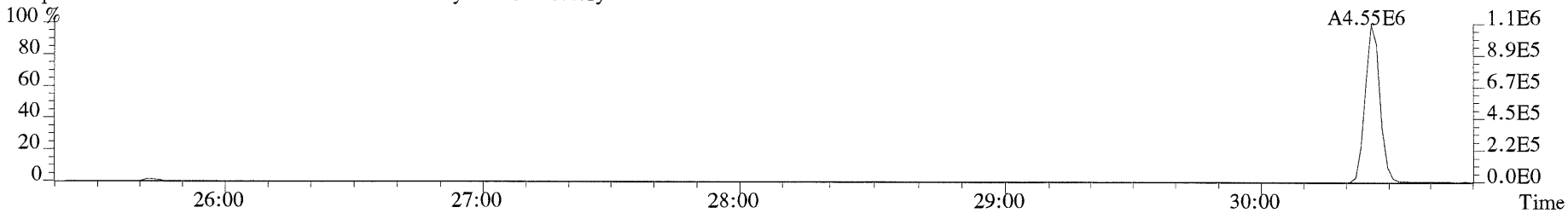
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



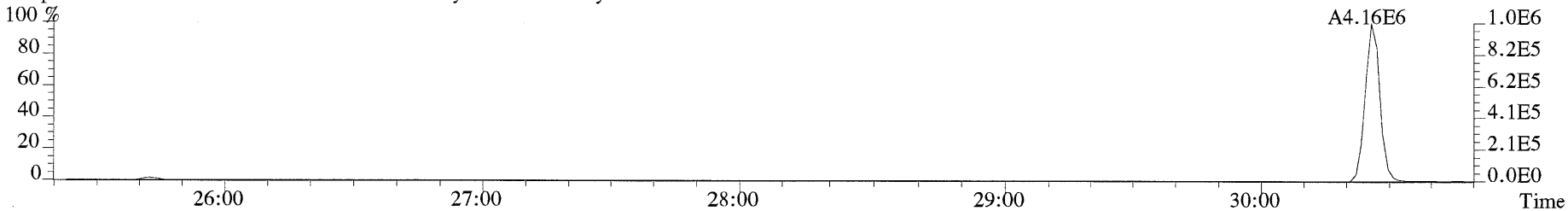
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



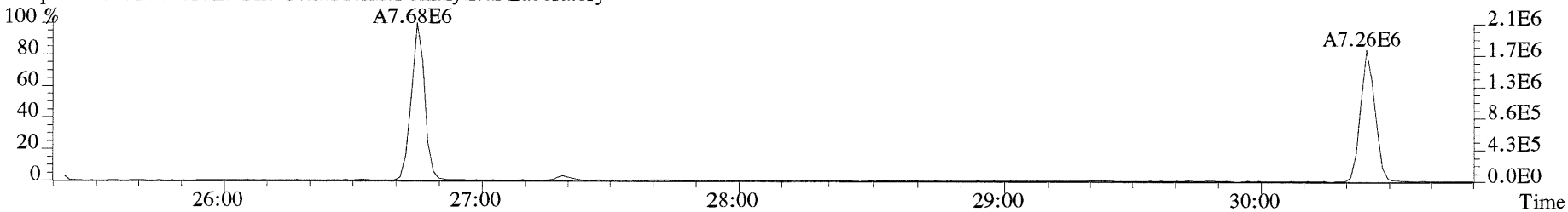
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



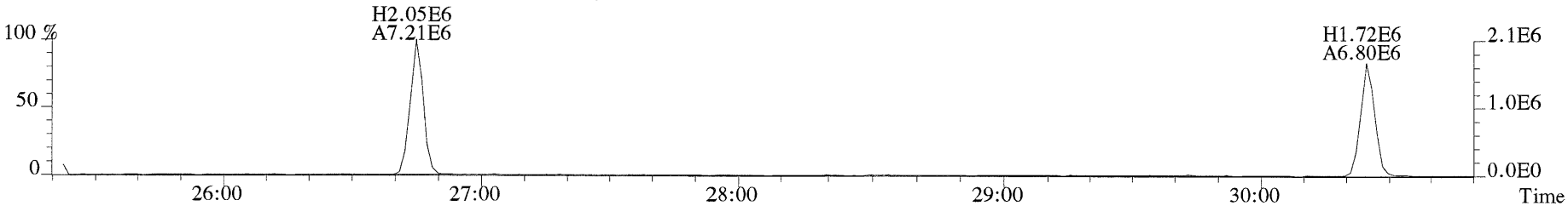
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



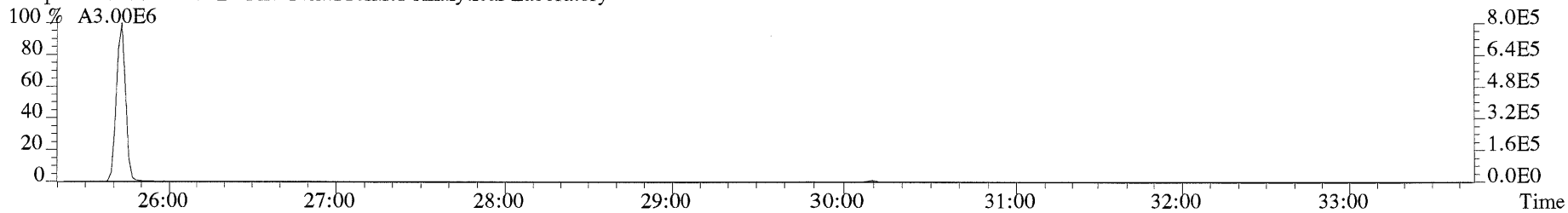
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



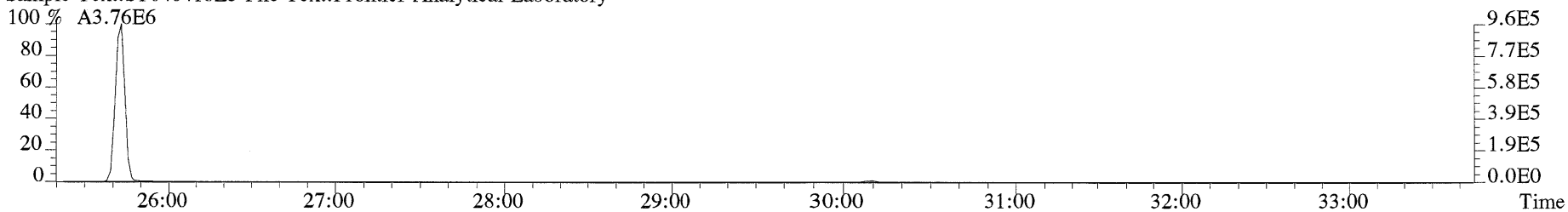
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



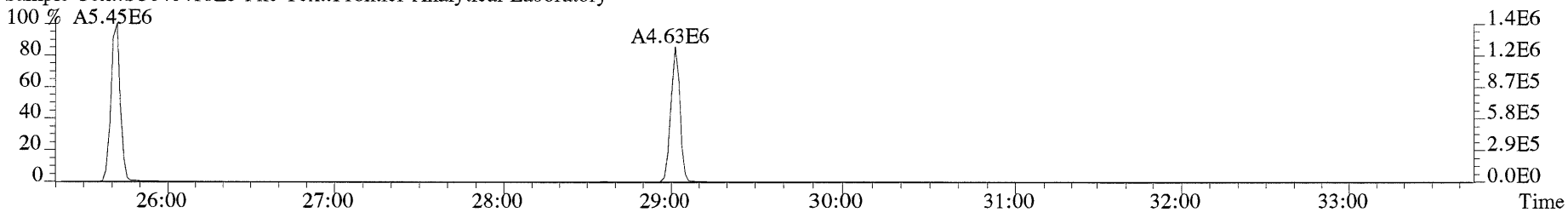
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



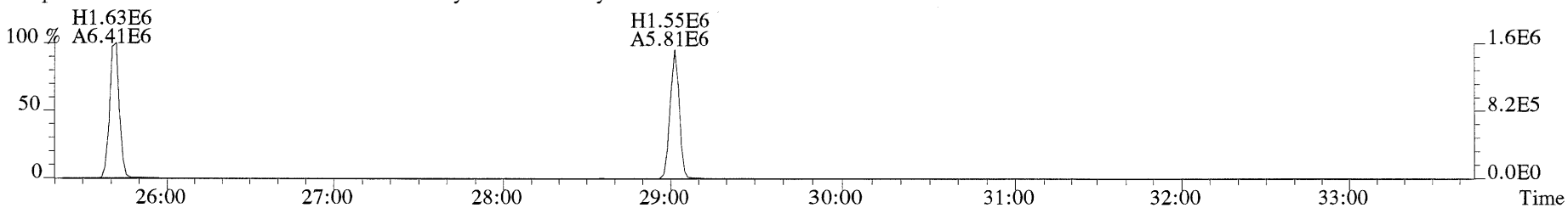
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



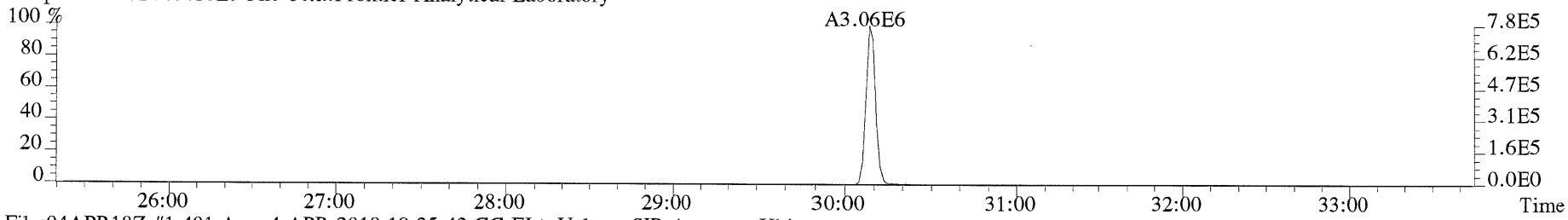
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



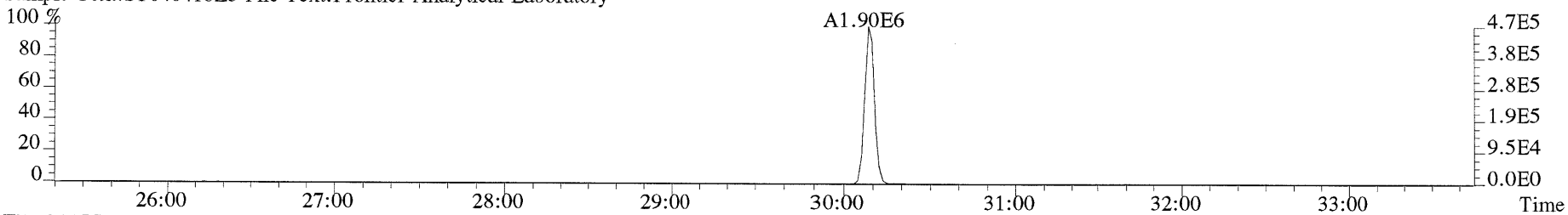
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



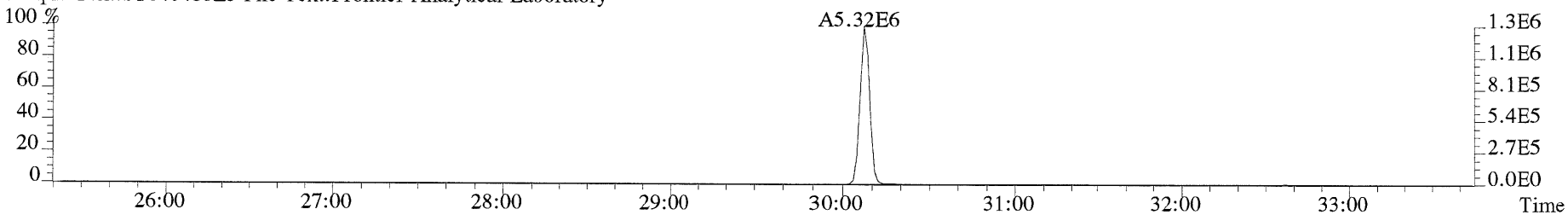
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



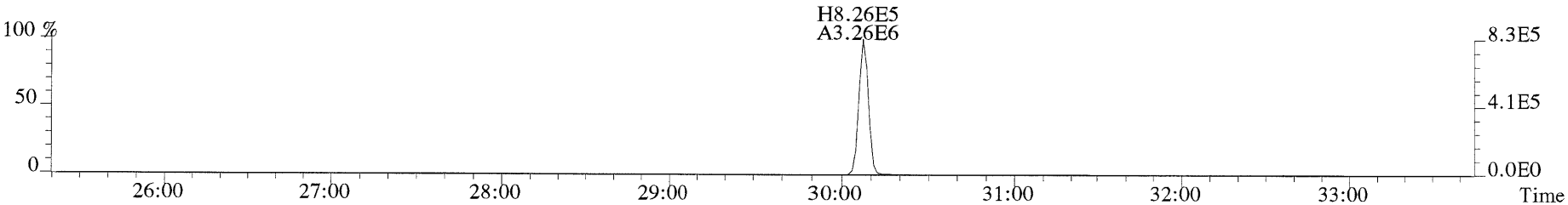
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



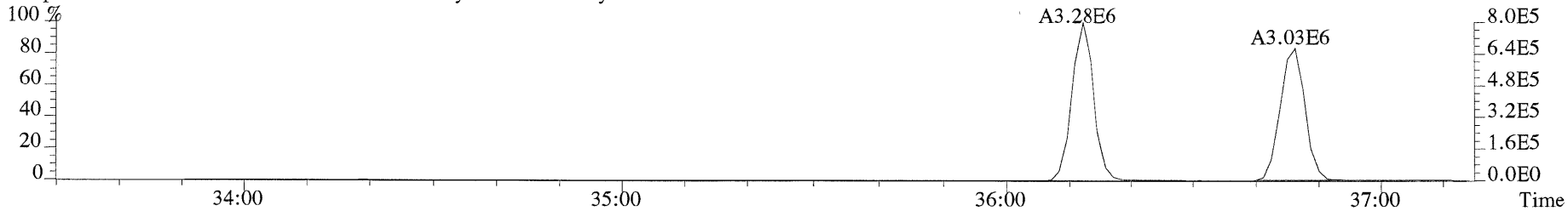
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



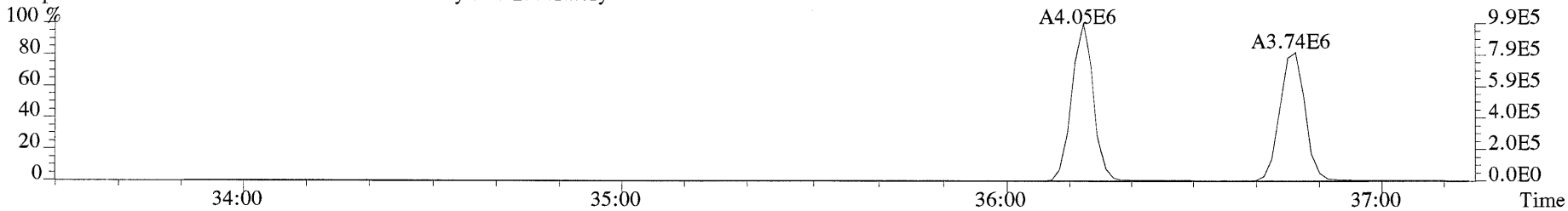
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



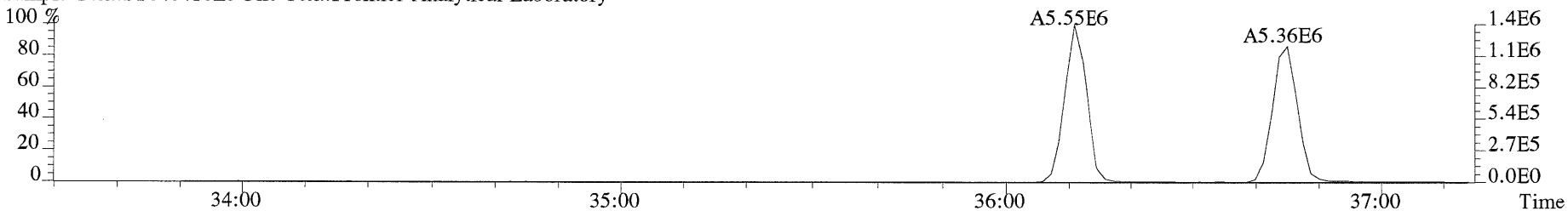
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



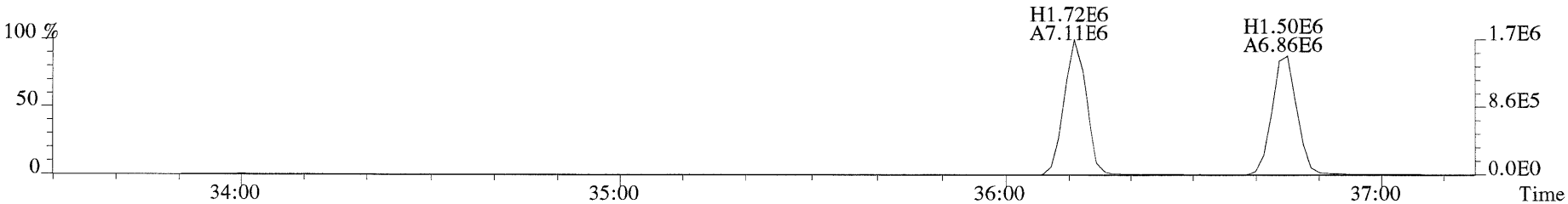
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



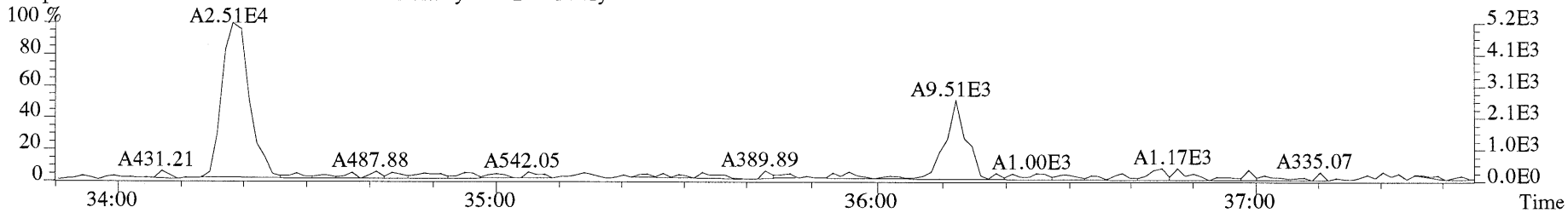
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



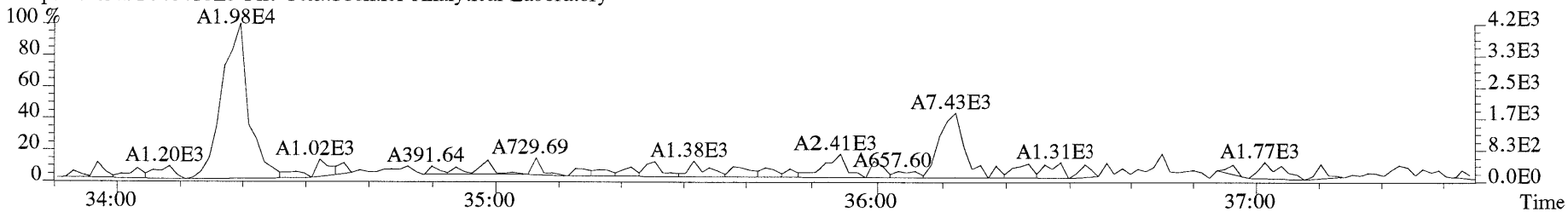
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



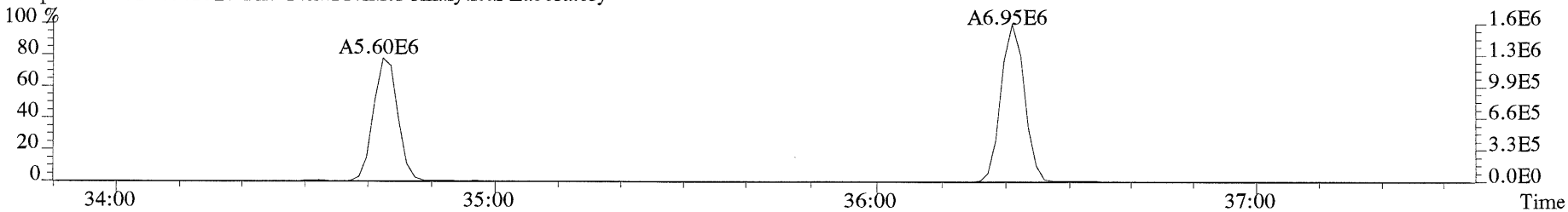
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



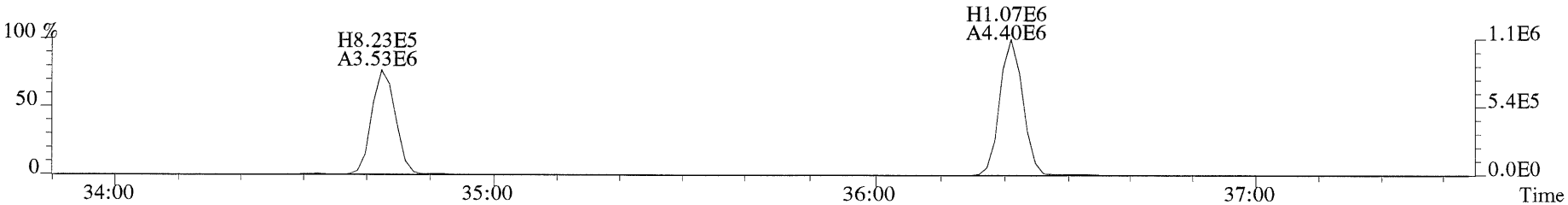
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



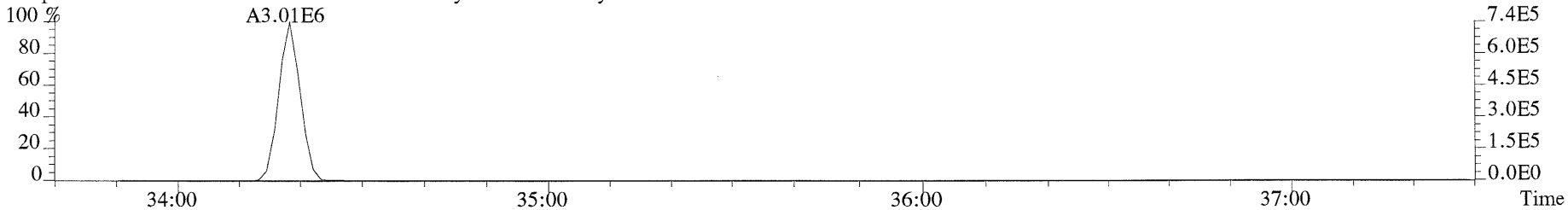
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



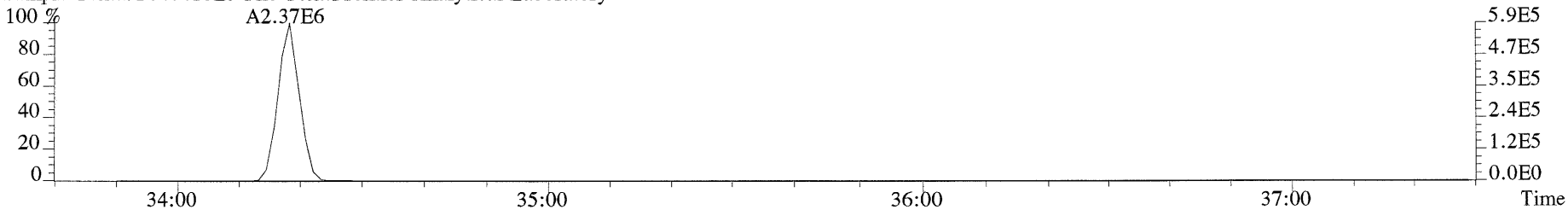
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



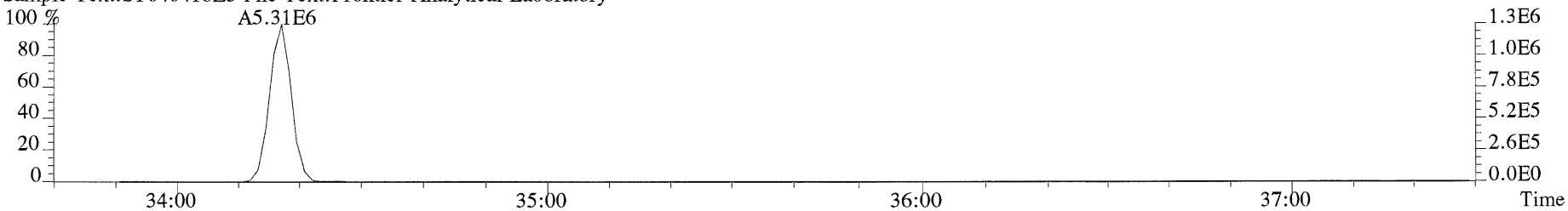
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



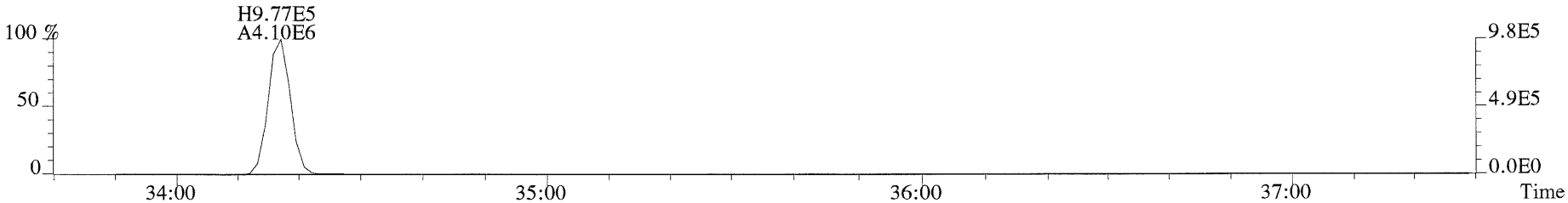
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



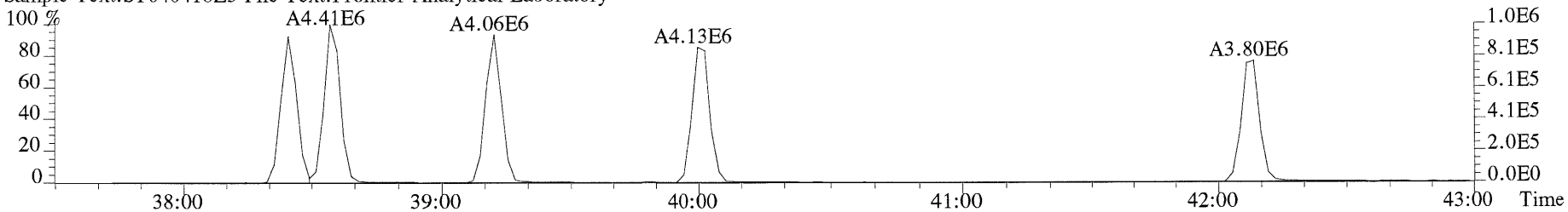
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



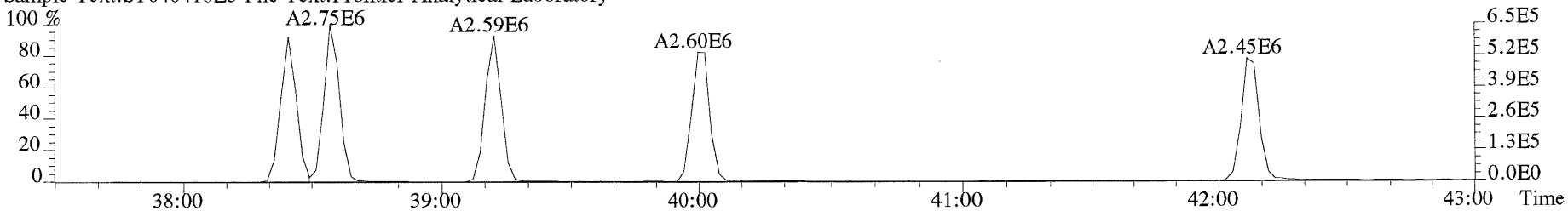
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



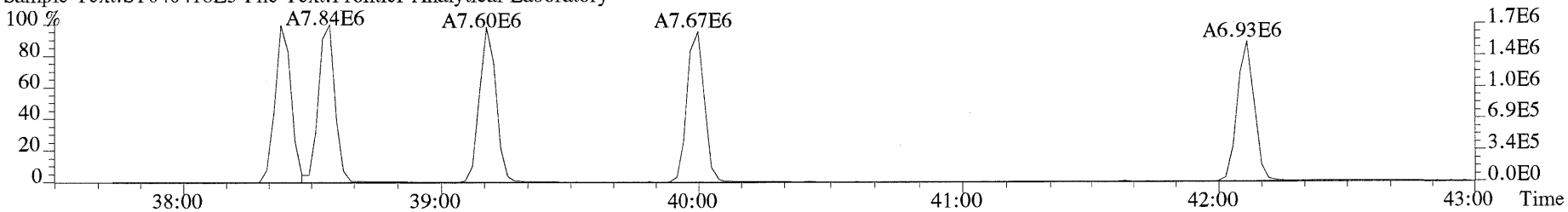
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



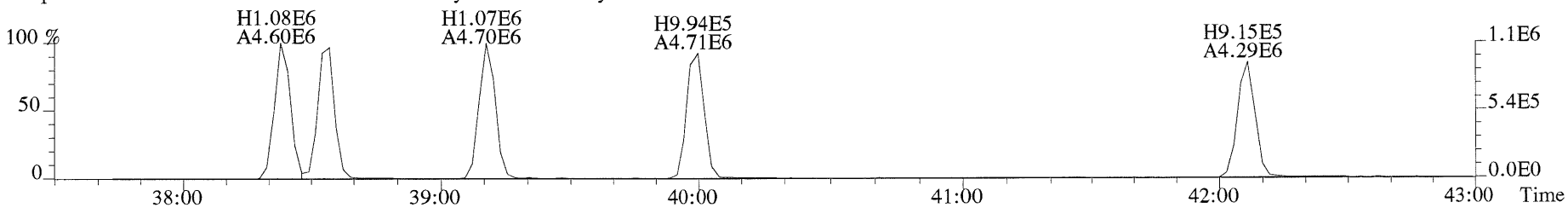
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



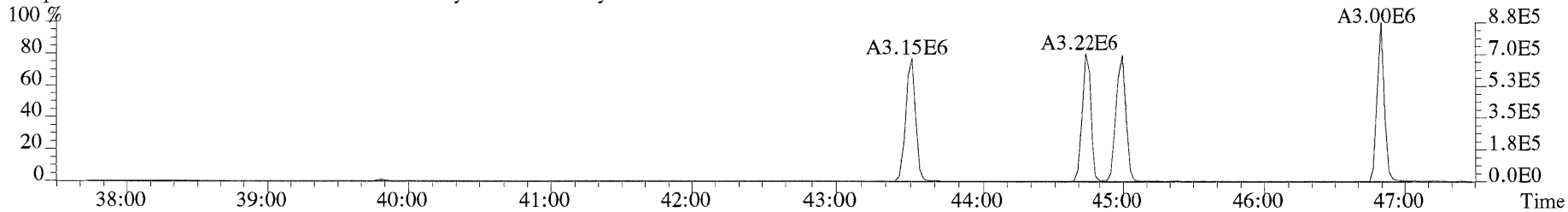
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



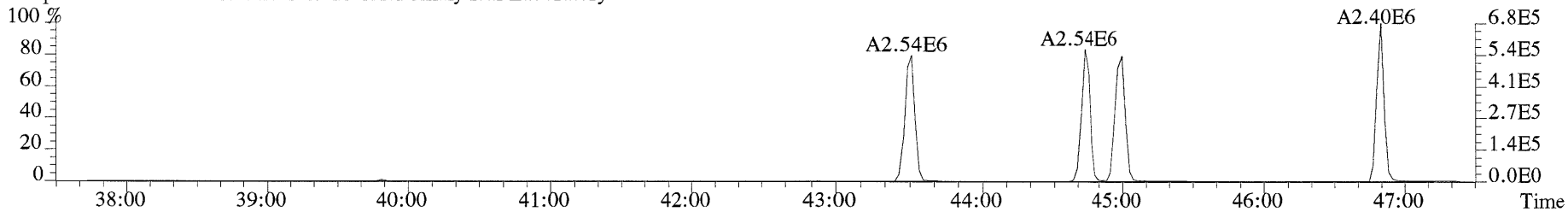
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



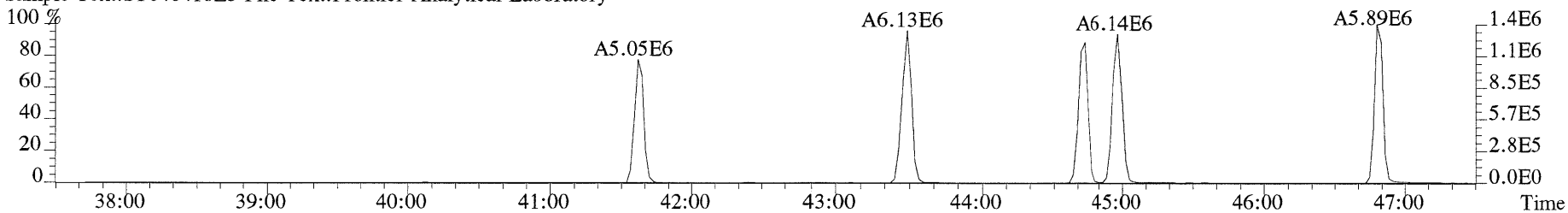
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



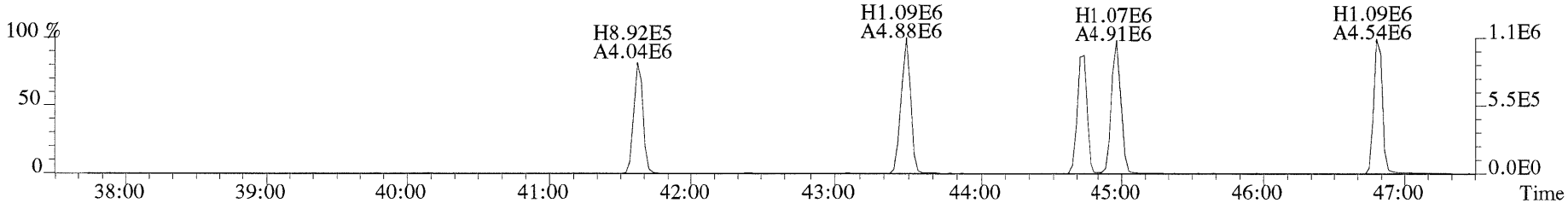
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



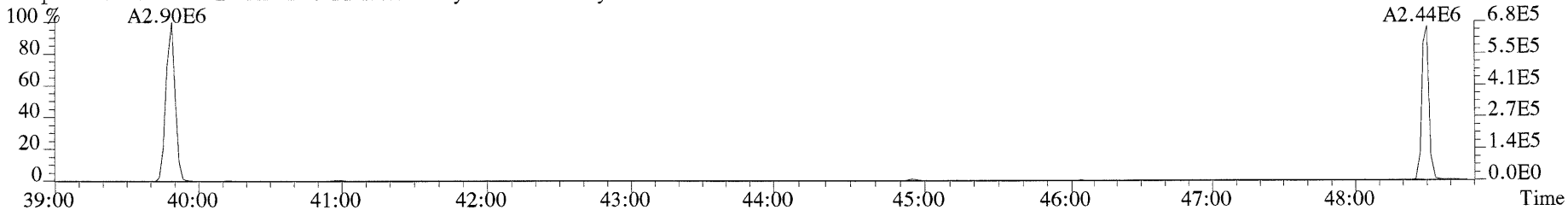
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



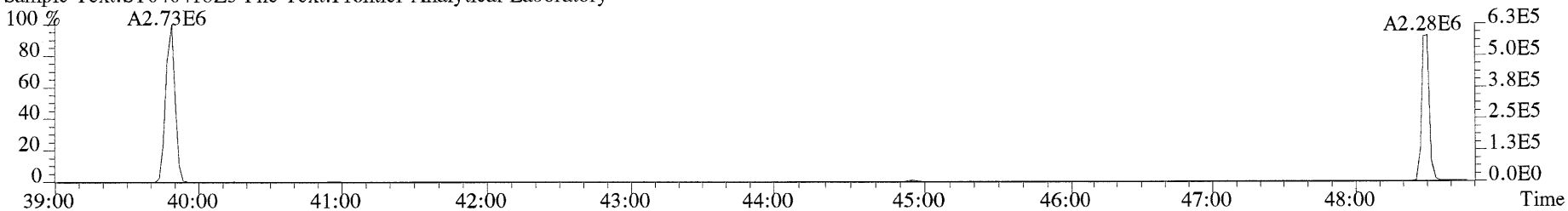
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



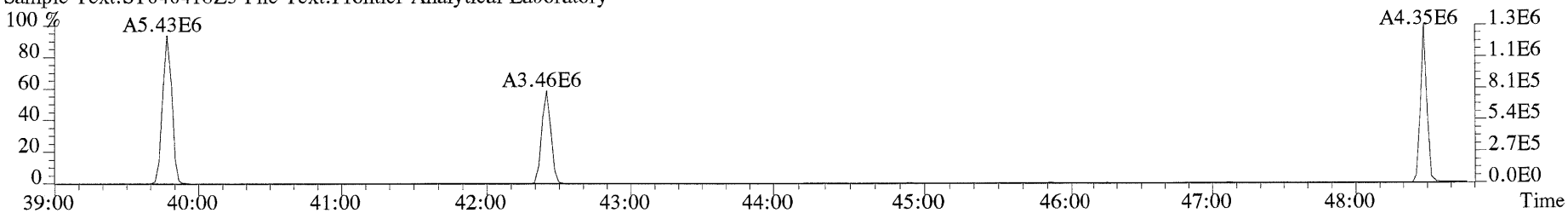
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



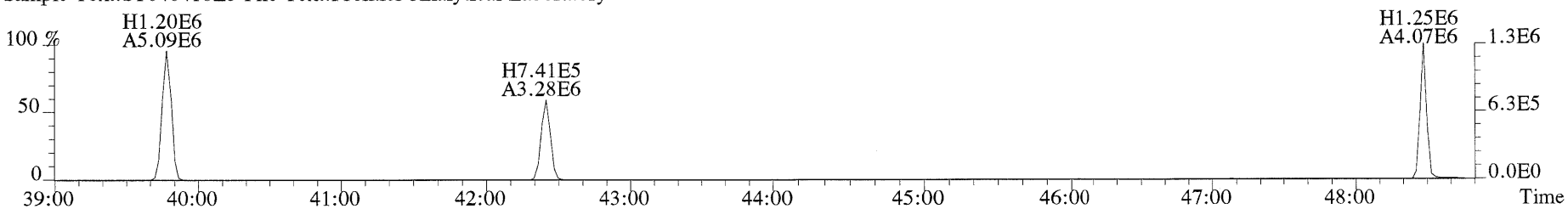
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



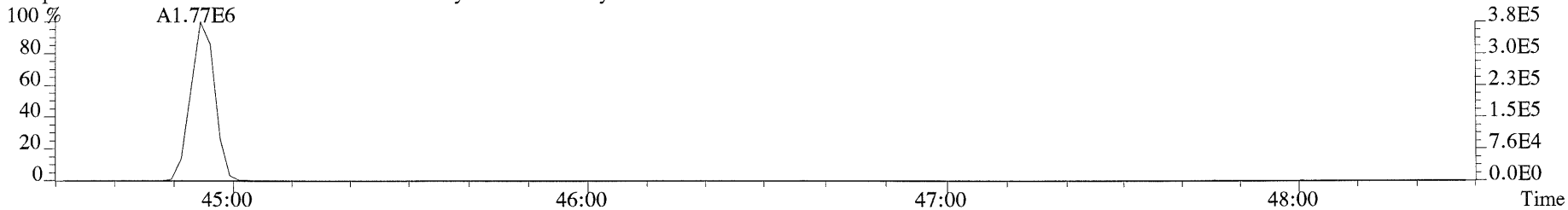
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



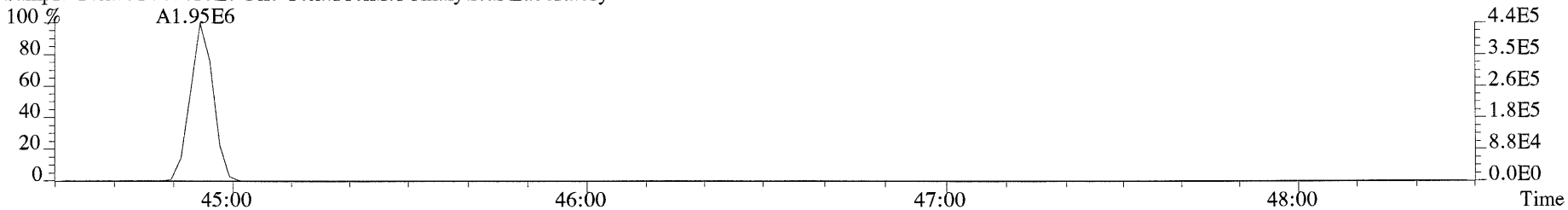
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



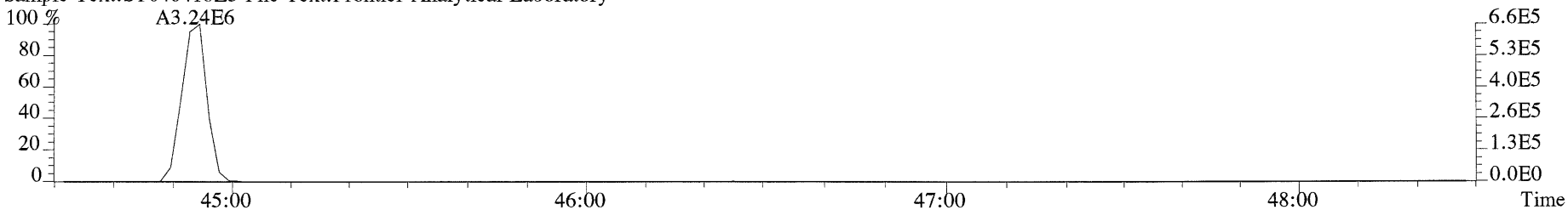
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



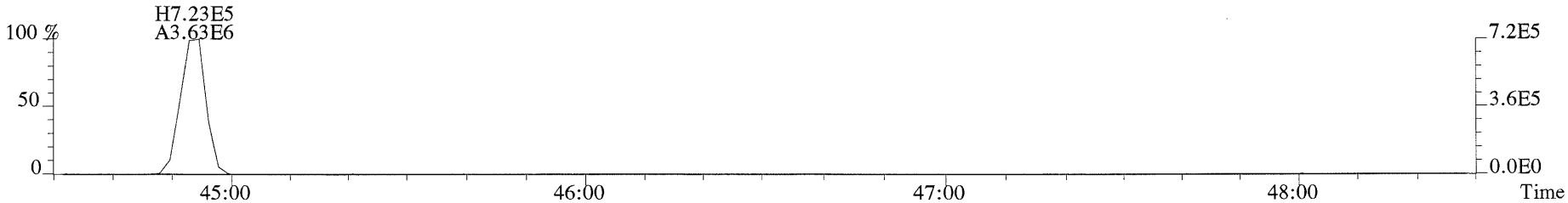
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



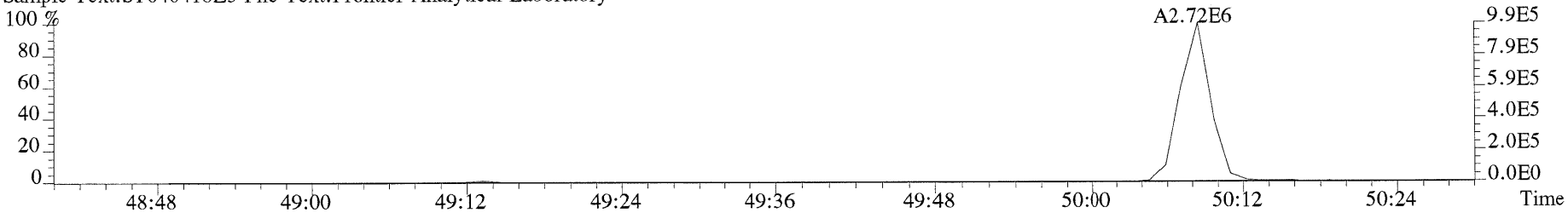
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



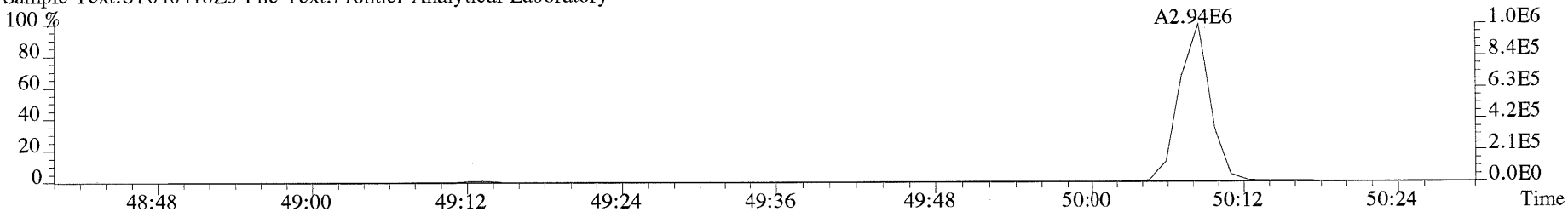
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



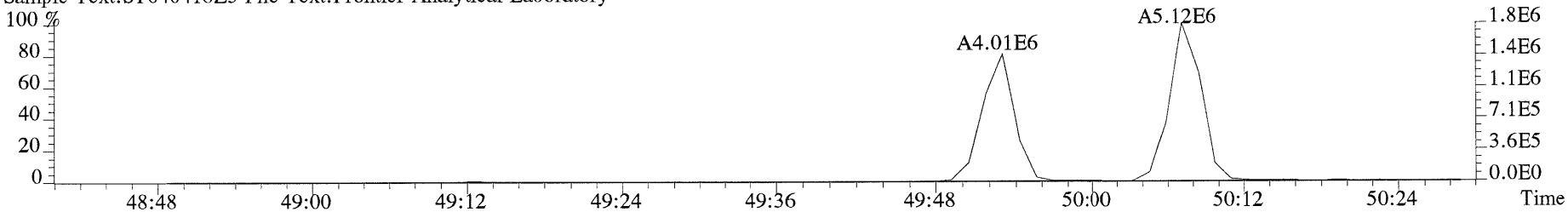
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



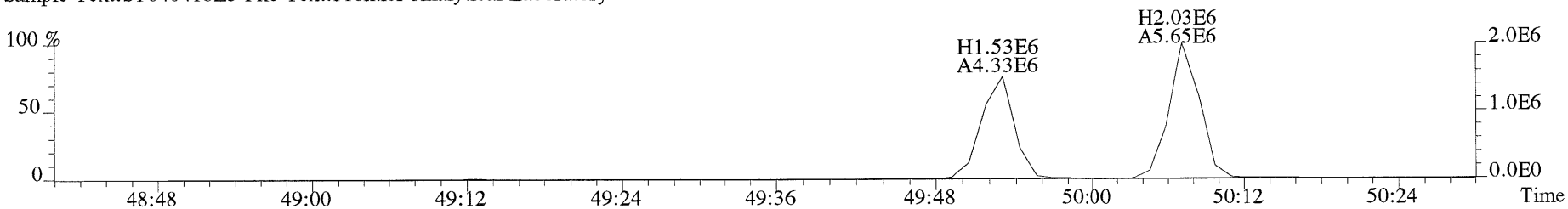
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



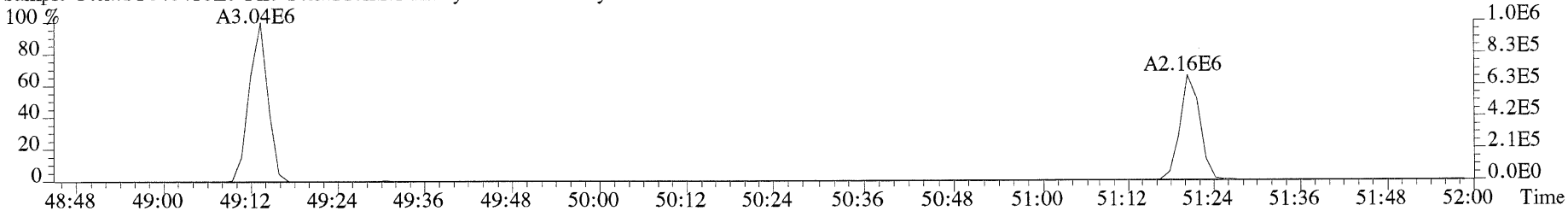
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



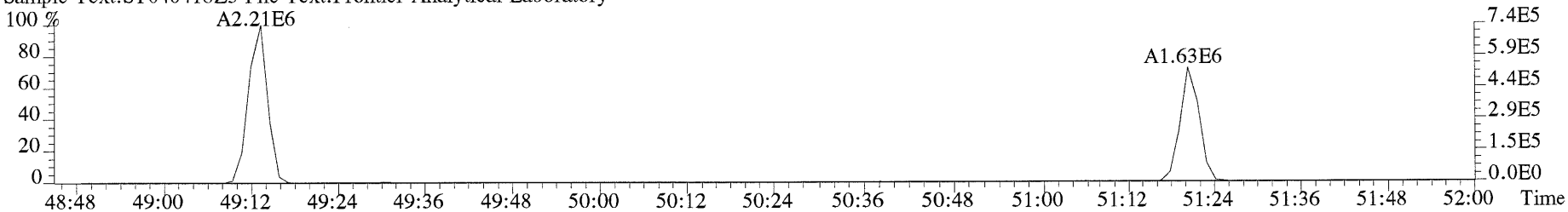
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



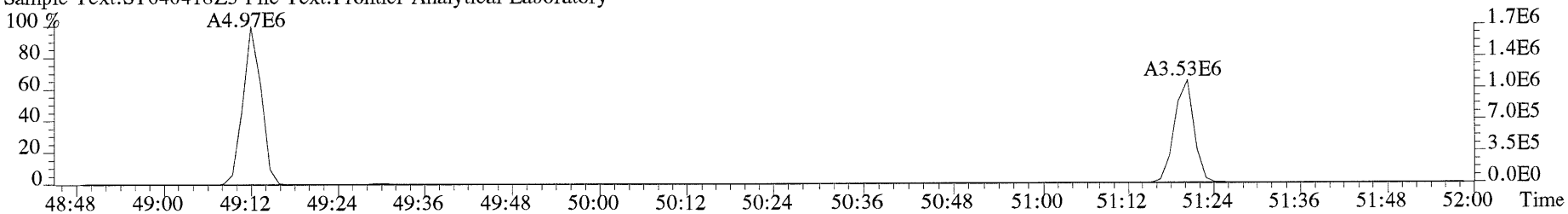
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



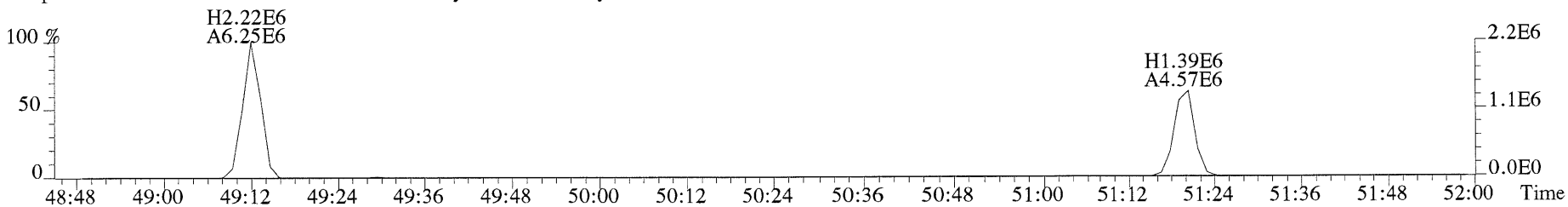
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



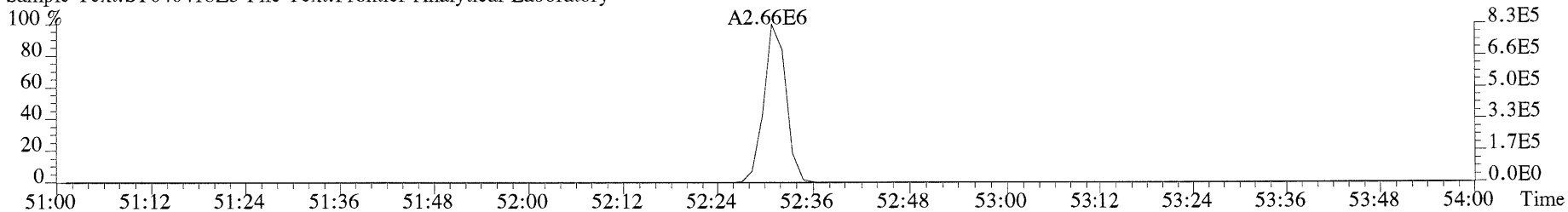
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



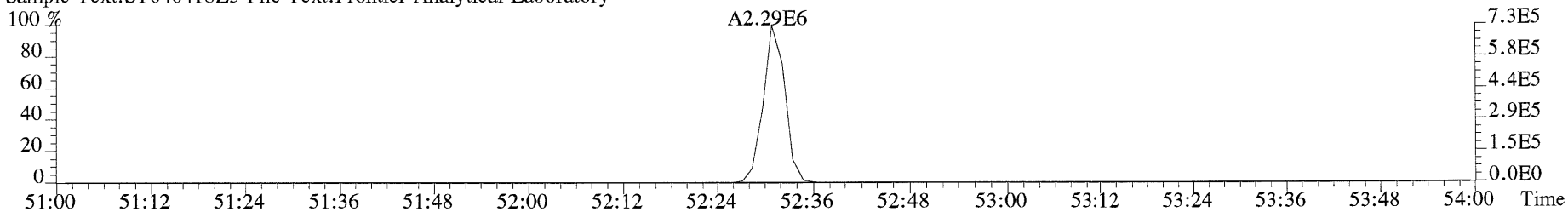
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



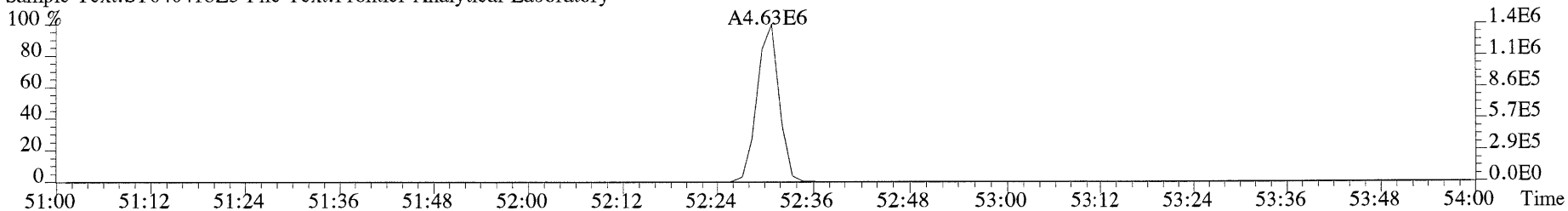
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



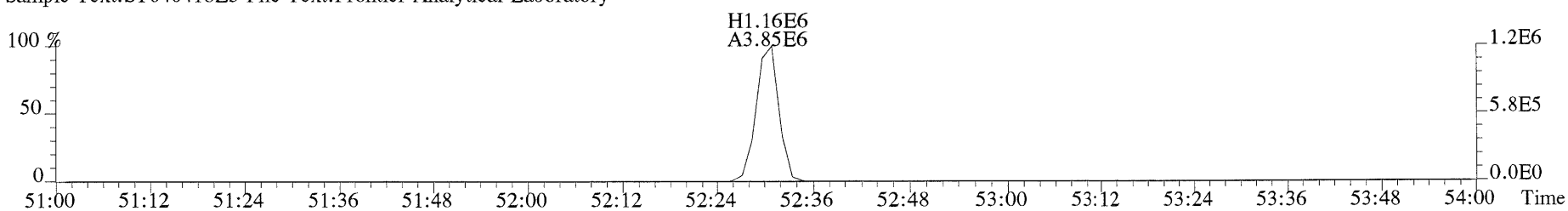
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



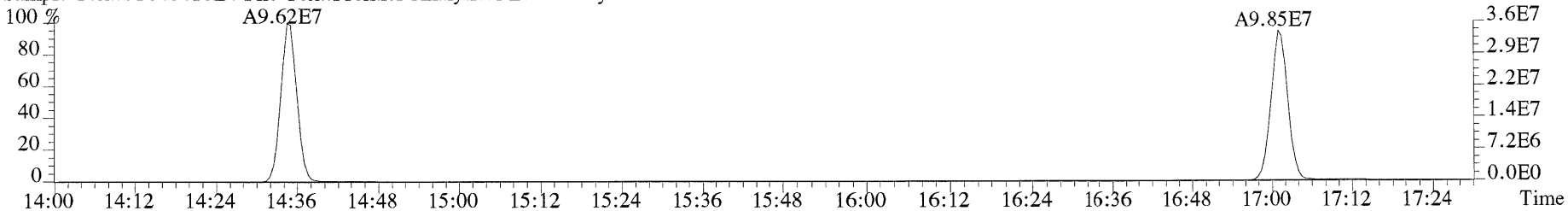
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



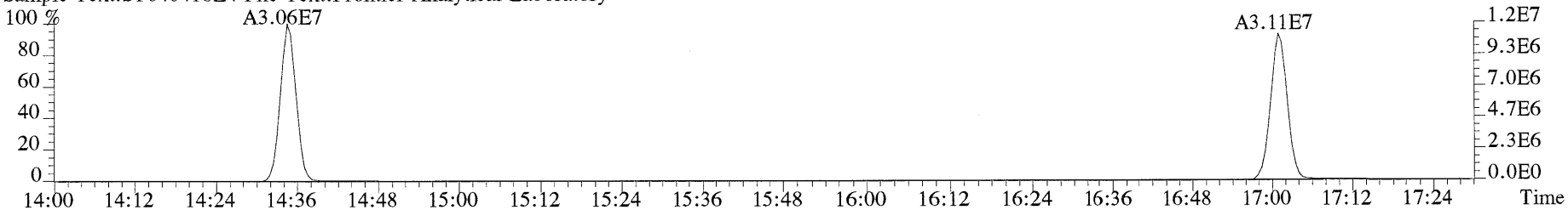
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



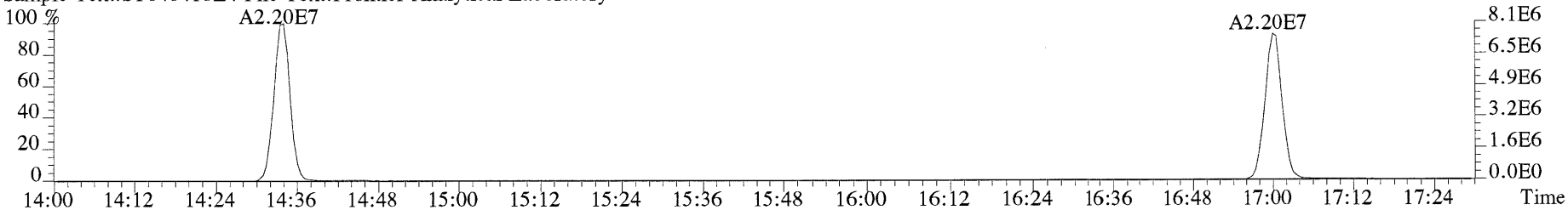
File:04APR18Z #1-784 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



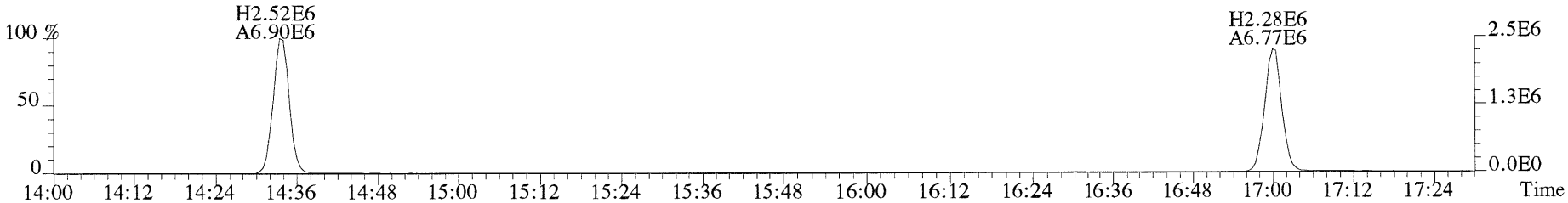
File:04APR18Z #1-784 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



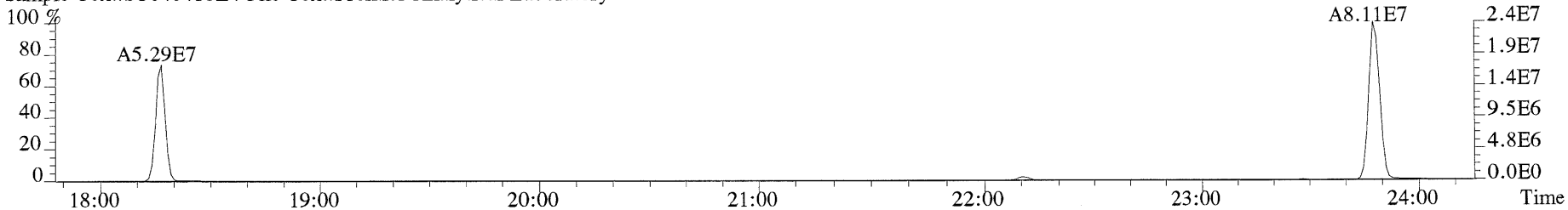
File:04APR18Z #1-784 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



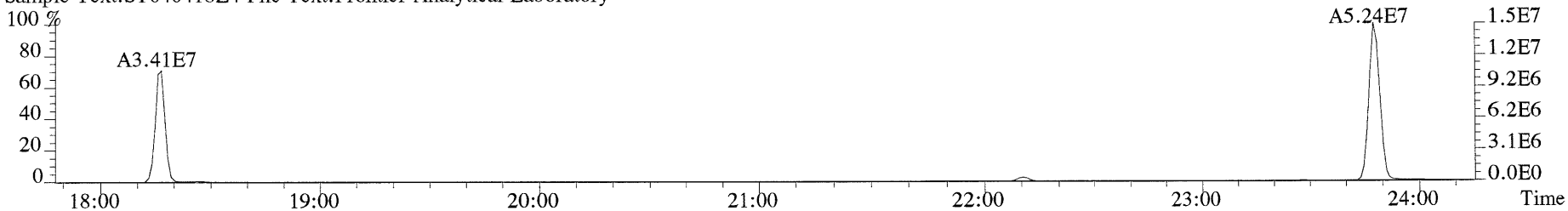
File:04APR18Z #1-784 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



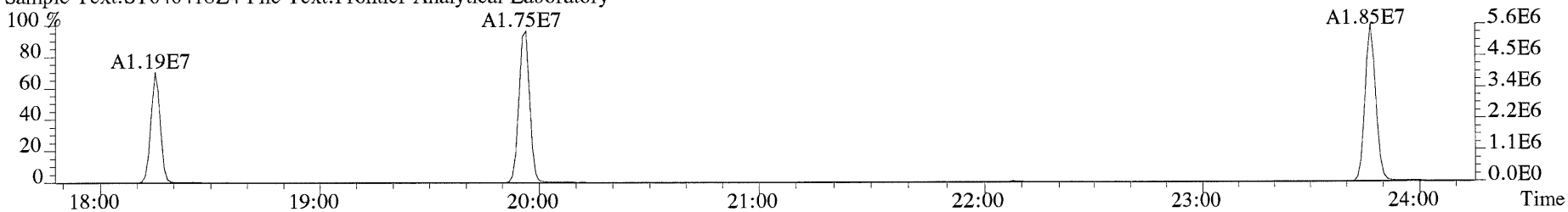
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



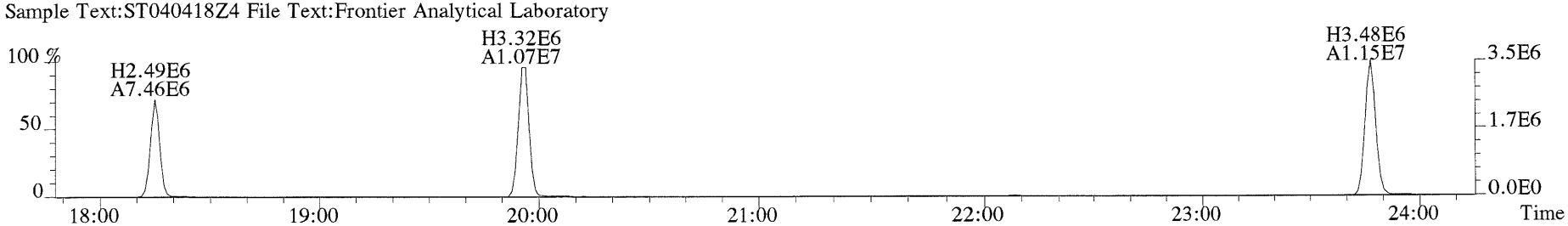
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



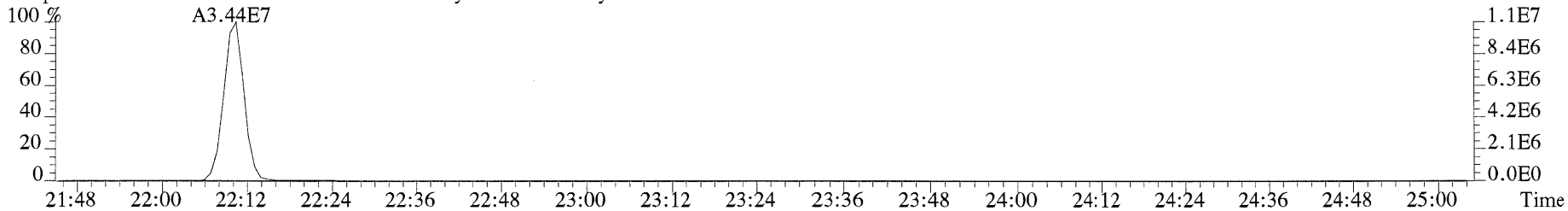
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



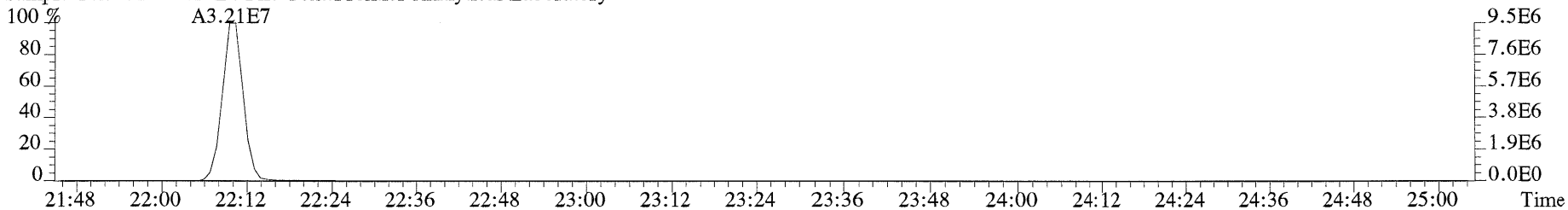
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



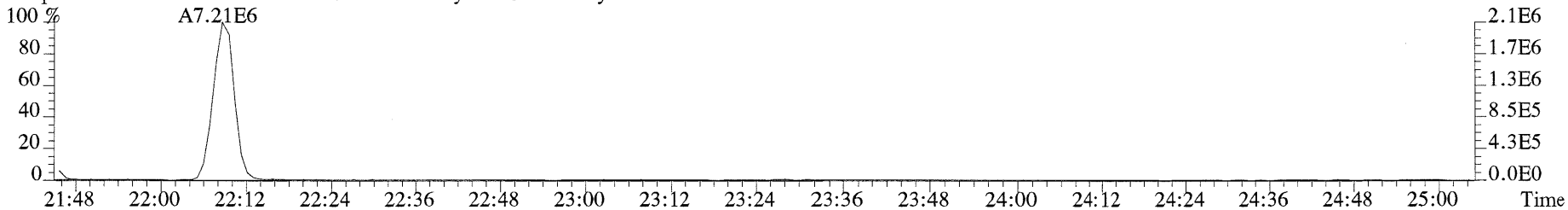
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



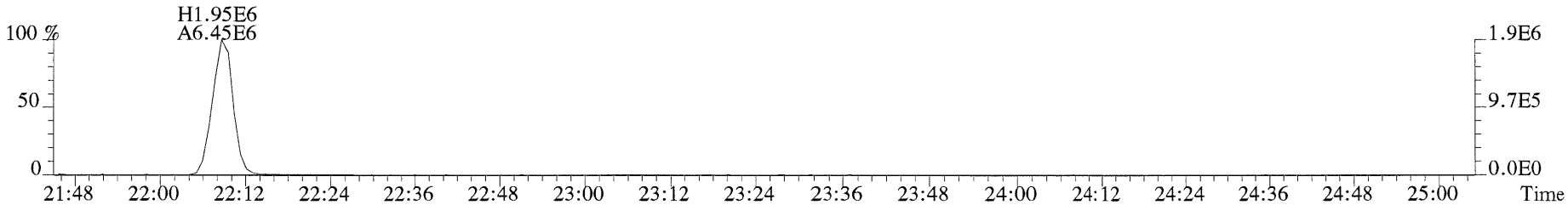
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



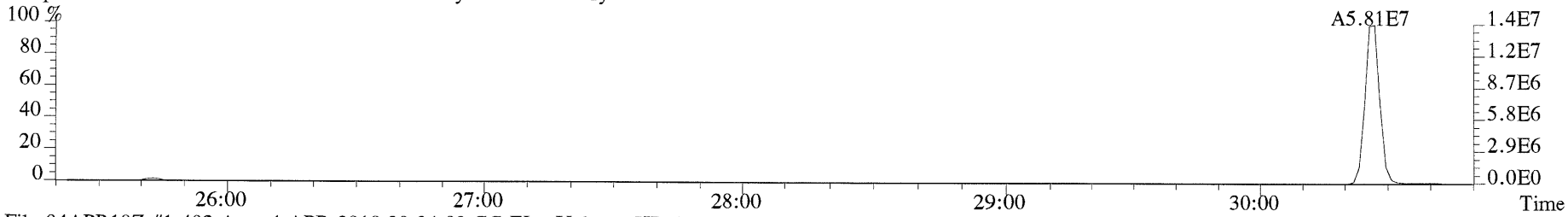
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



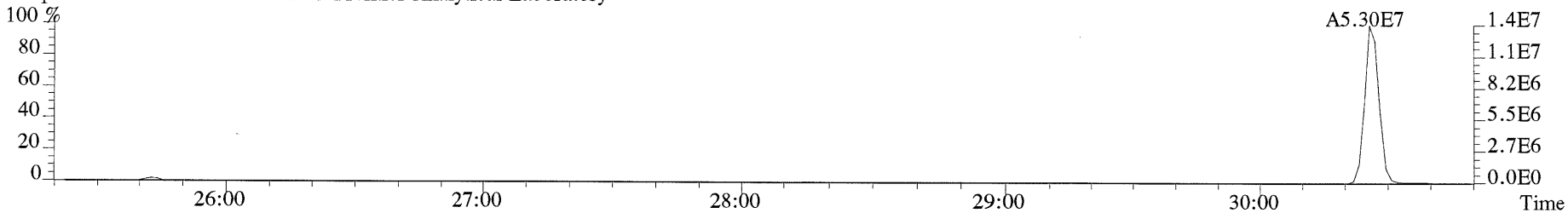
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



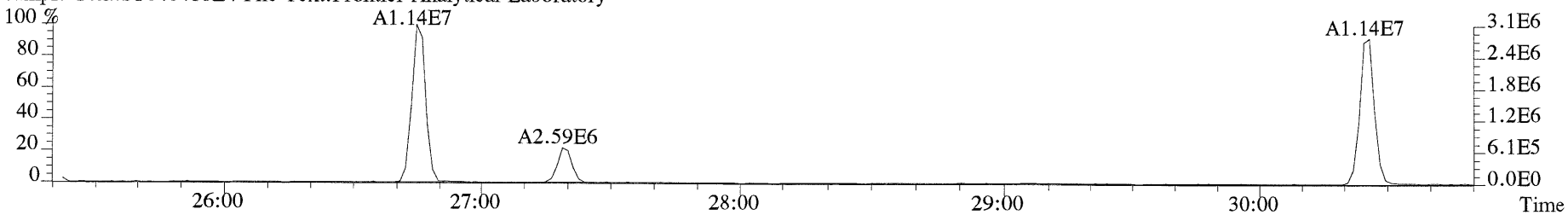
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



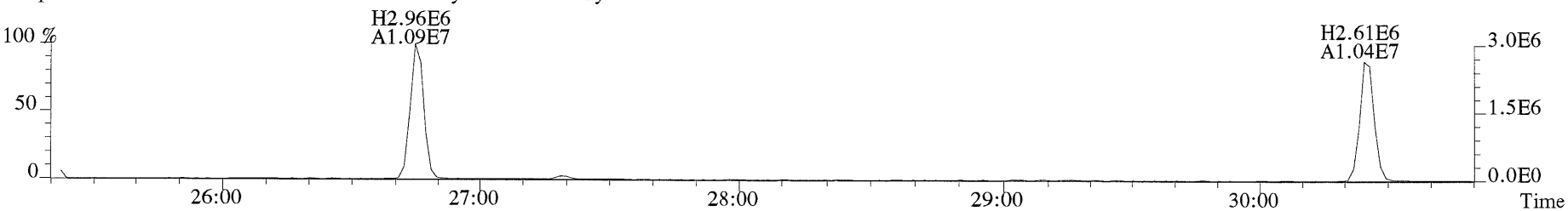
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



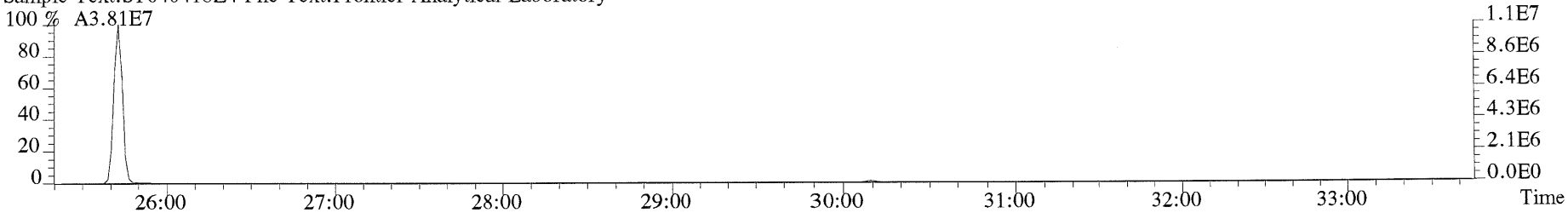
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



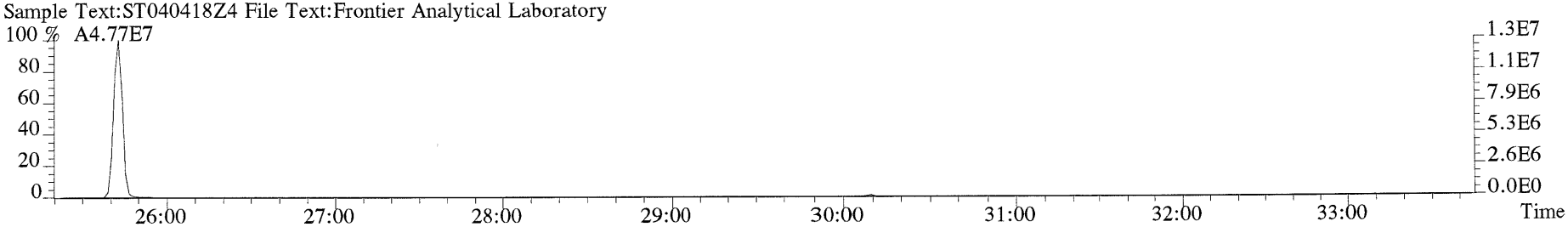
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



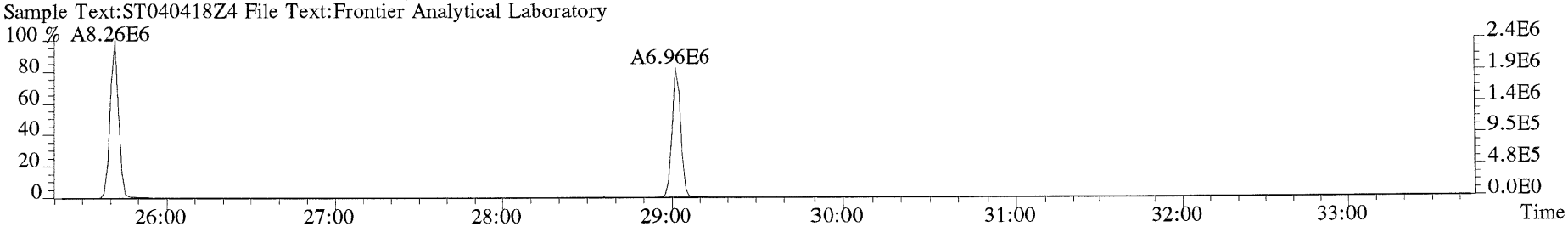
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



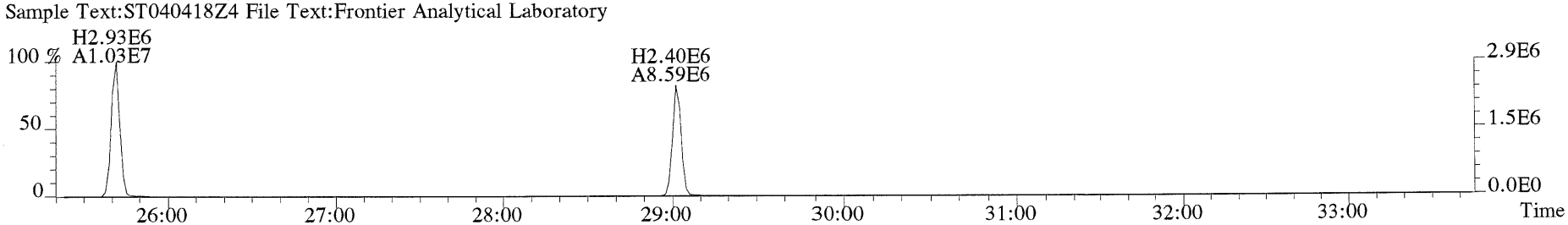
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



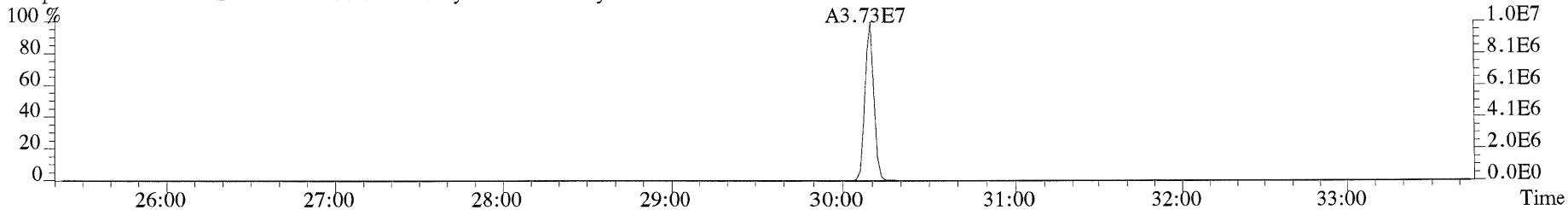
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



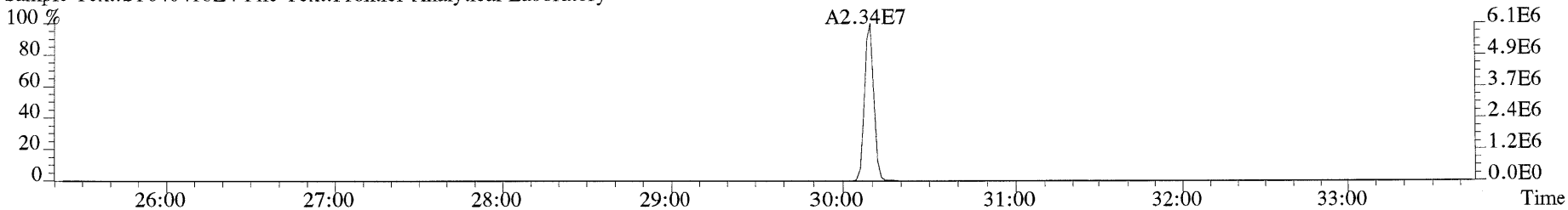
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



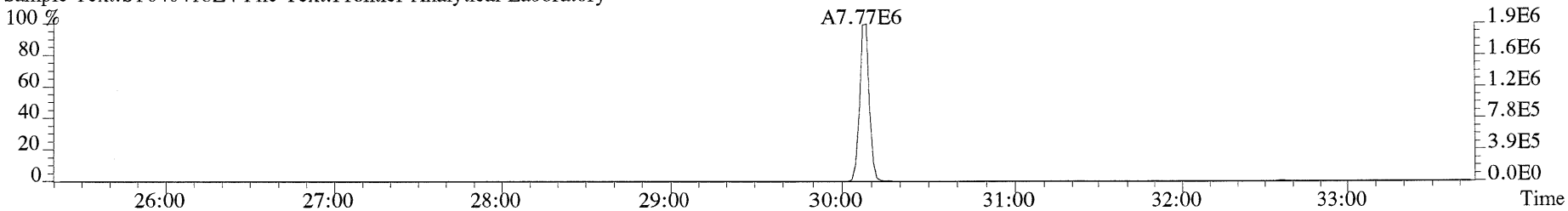
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



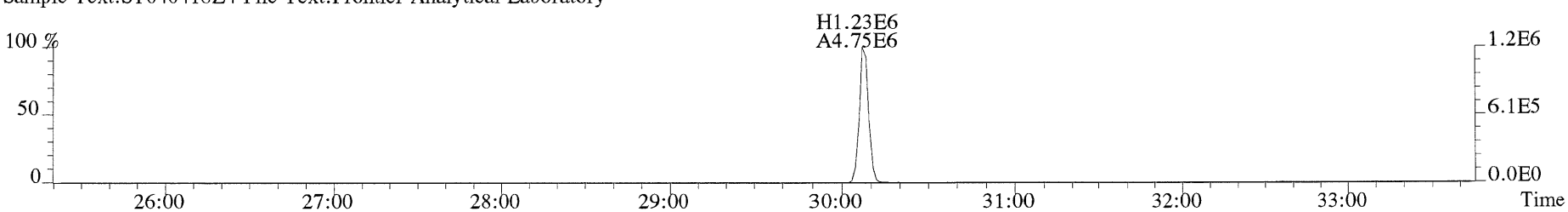
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



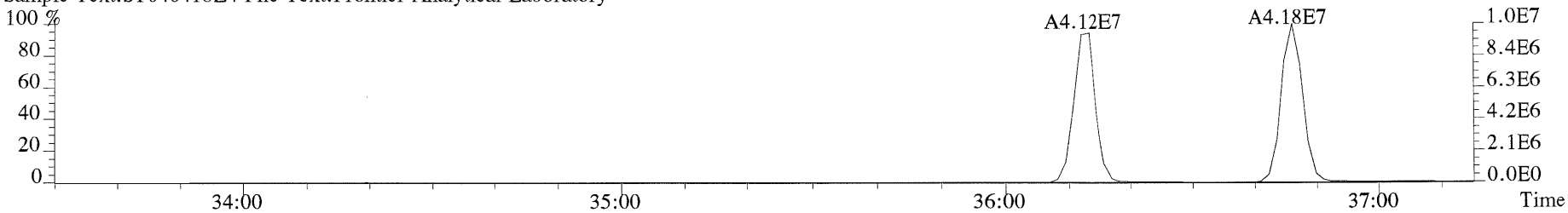
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



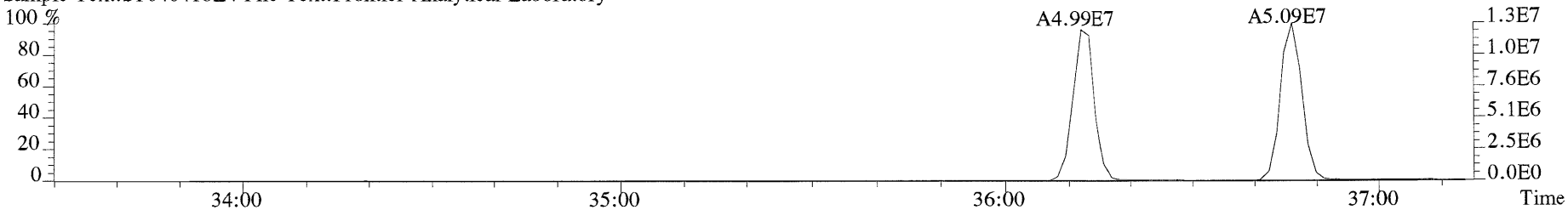
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



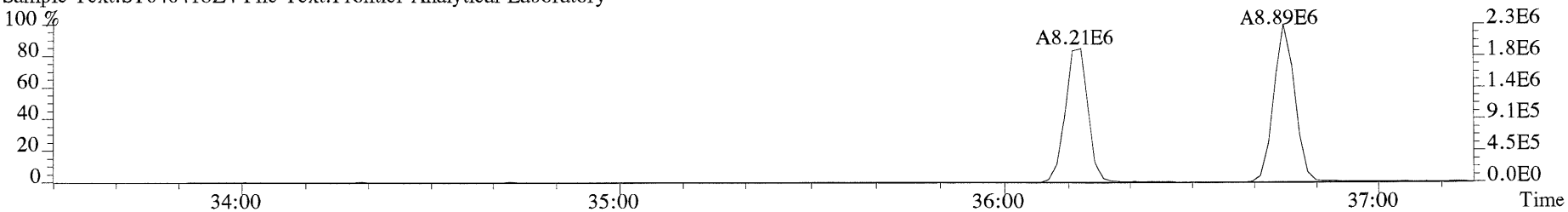
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



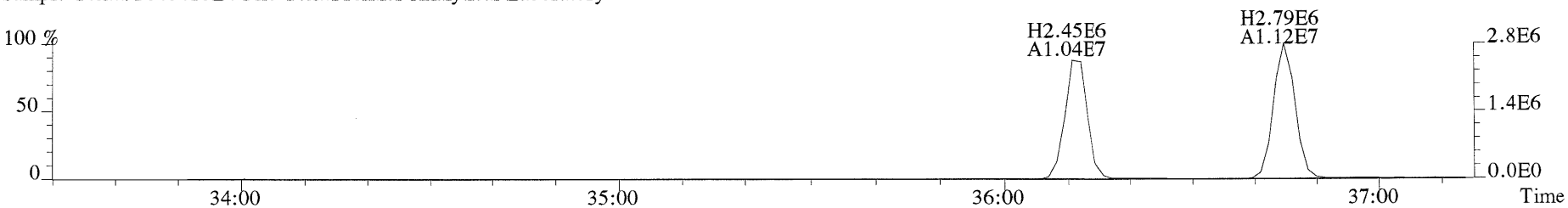
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



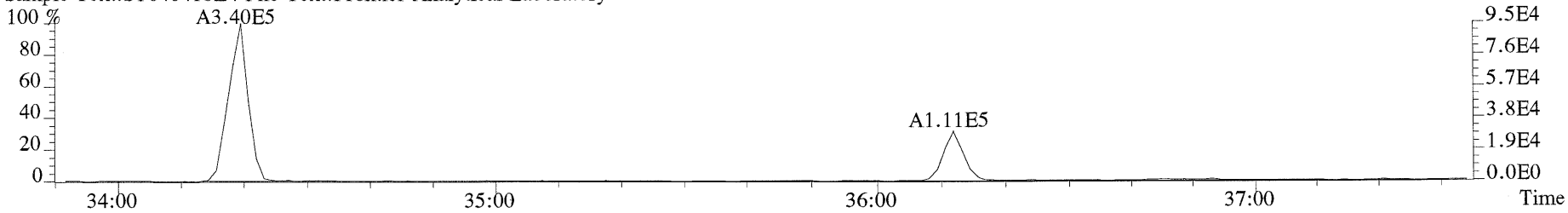
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



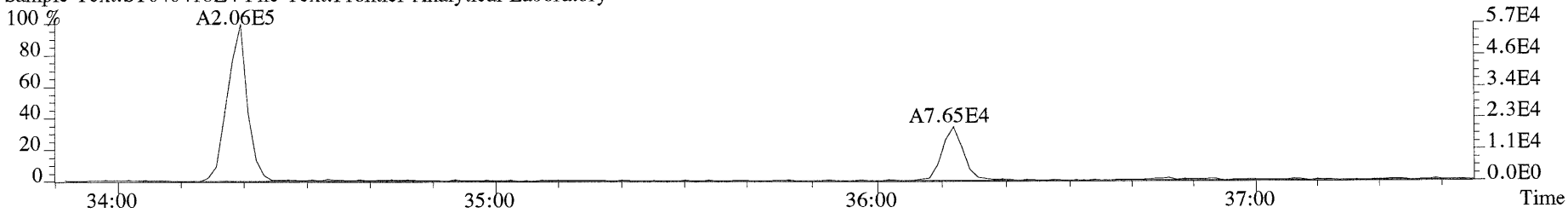
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



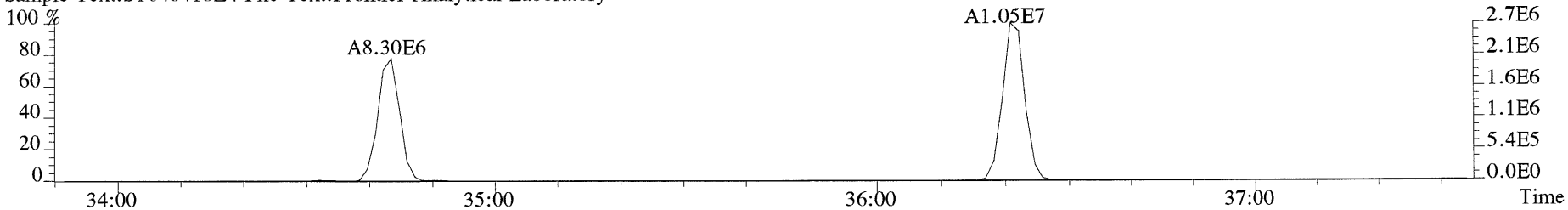
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



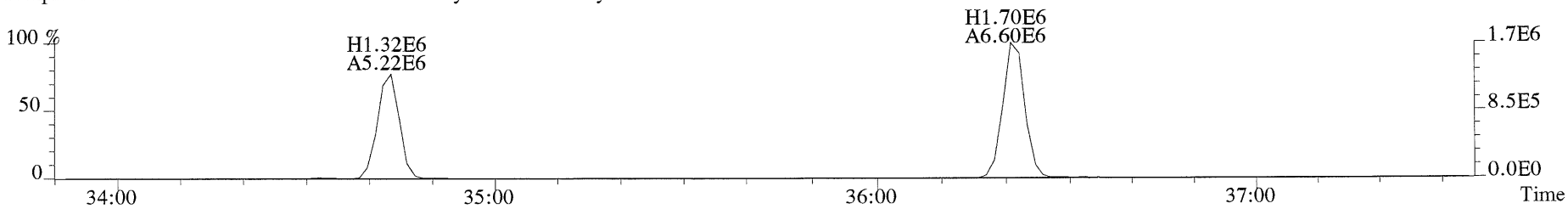
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



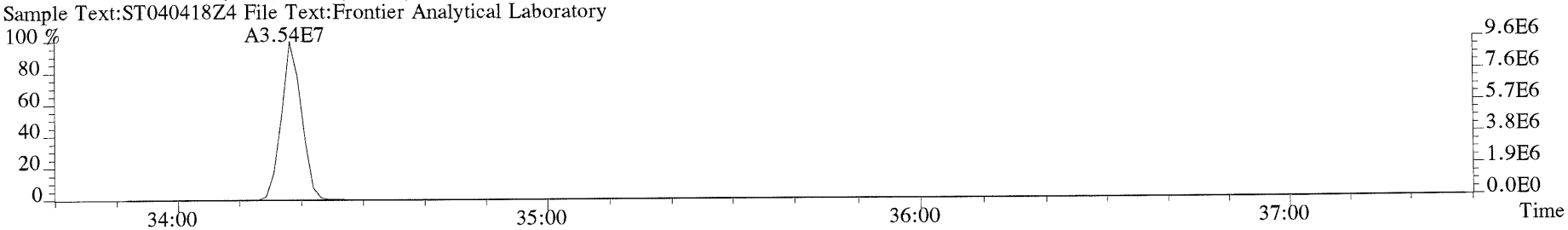
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



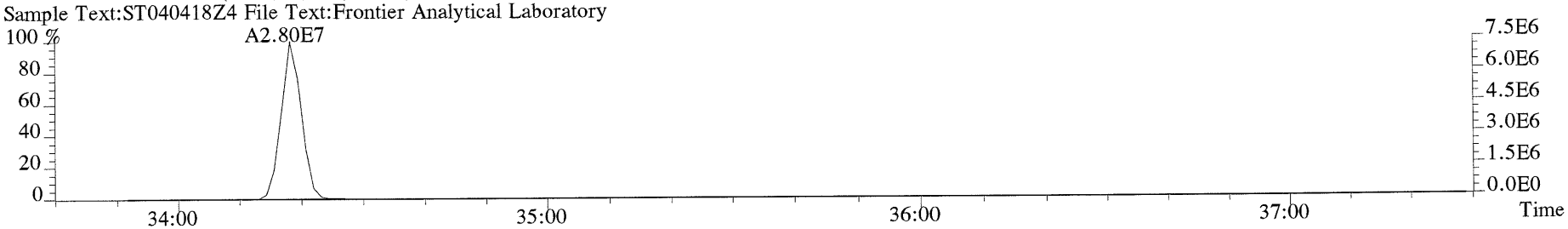
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



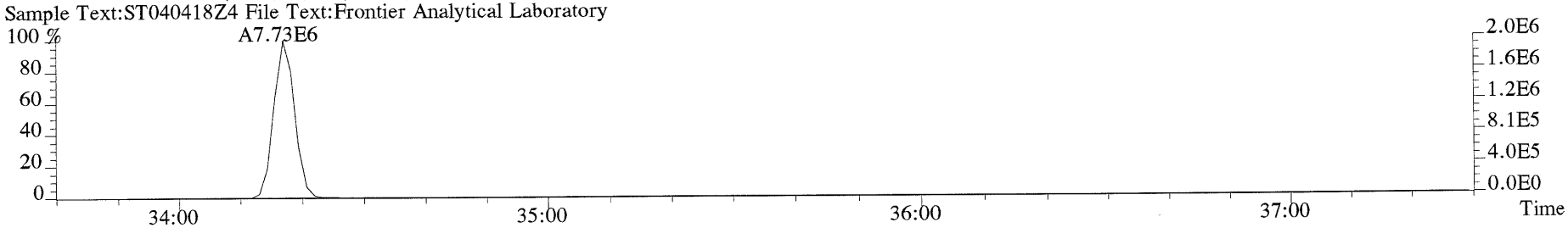
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



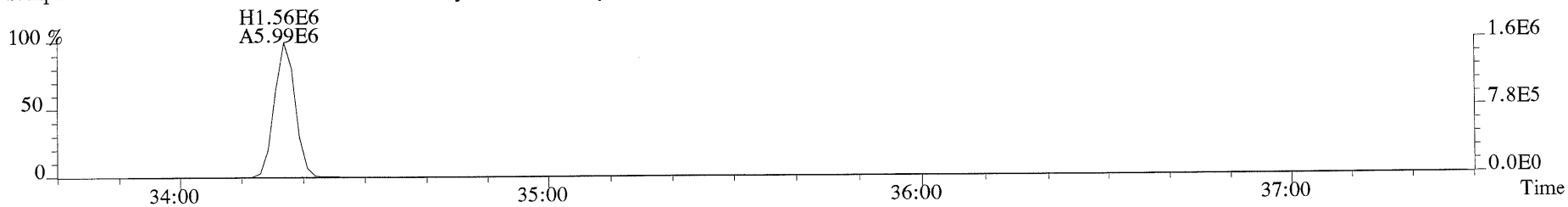
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



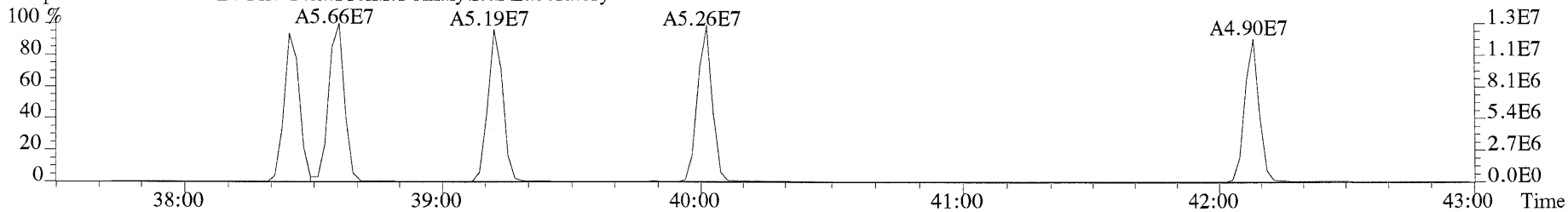
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



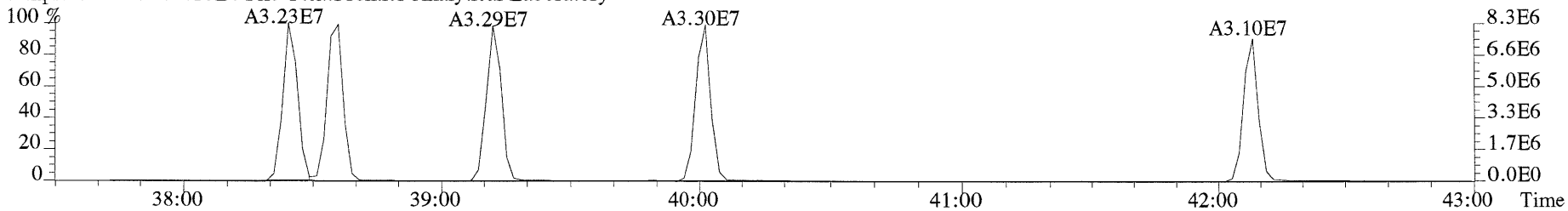
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



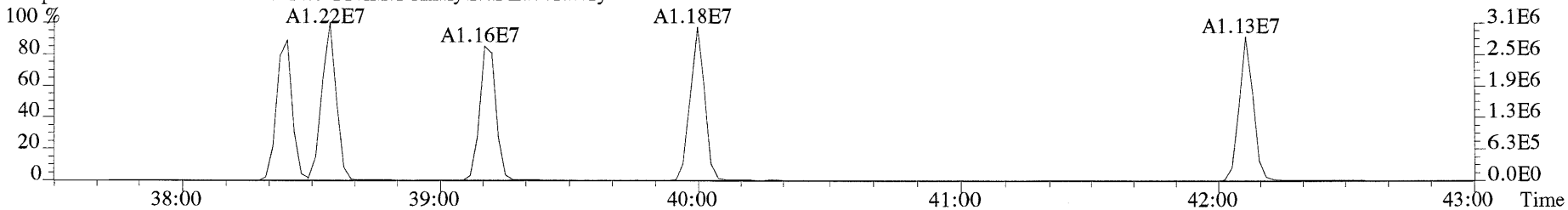
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



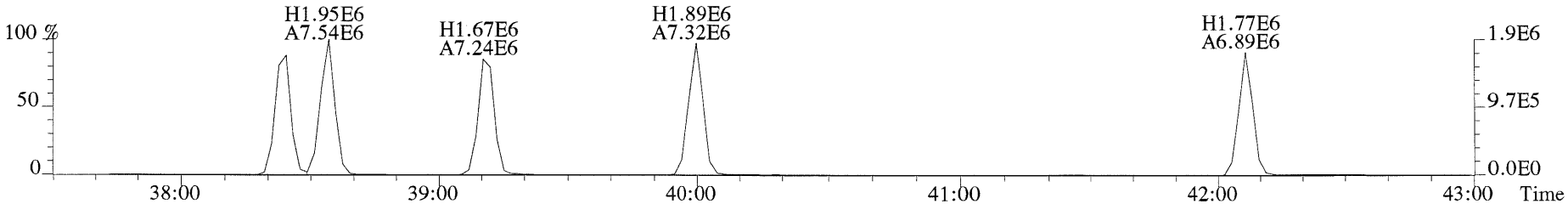
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



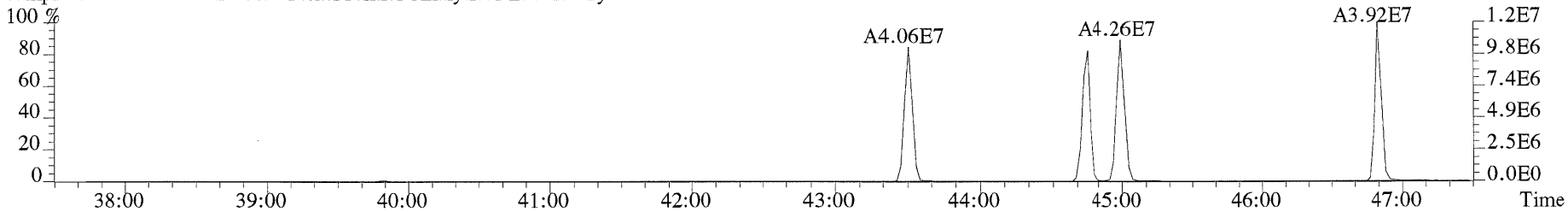
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



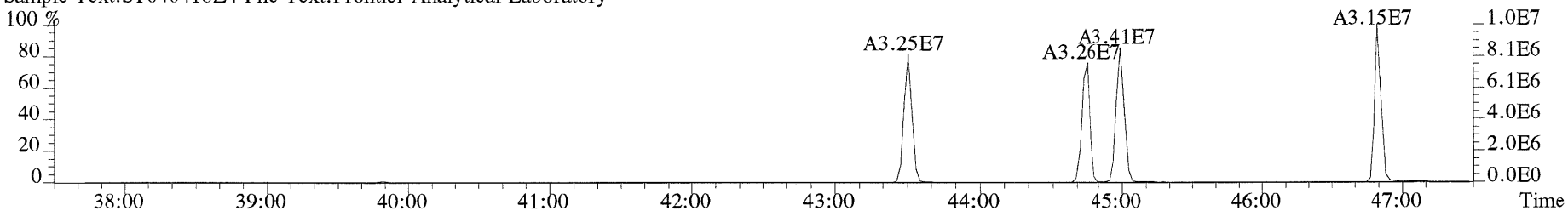
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



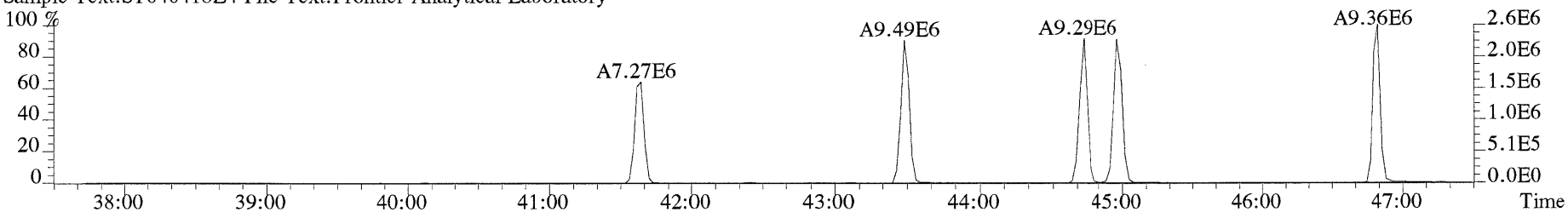
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



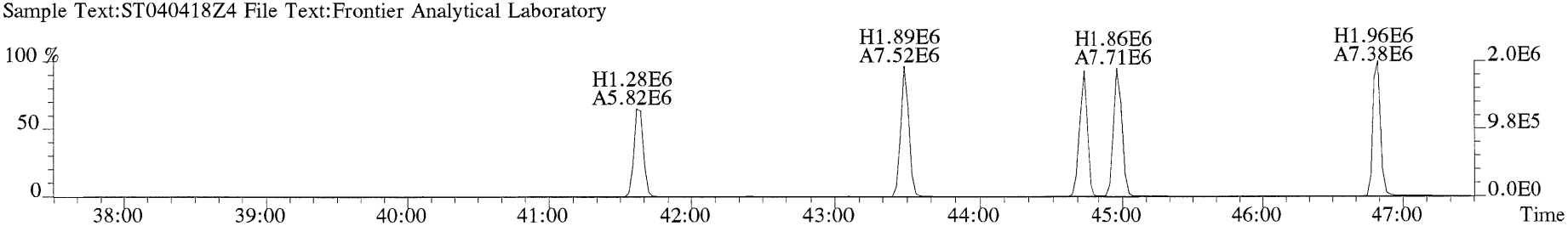
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



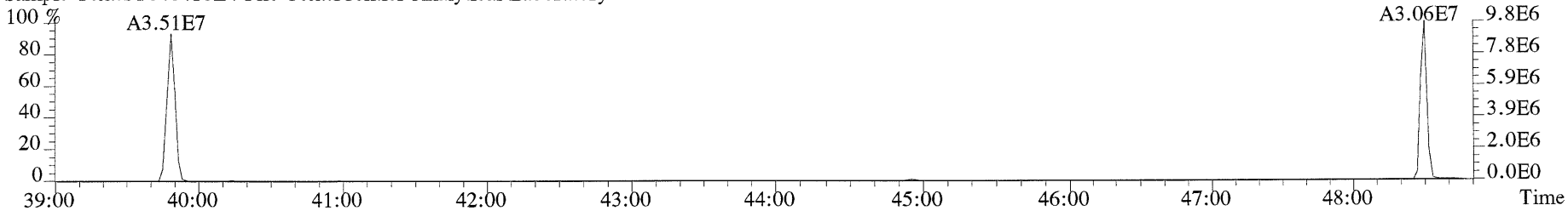
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



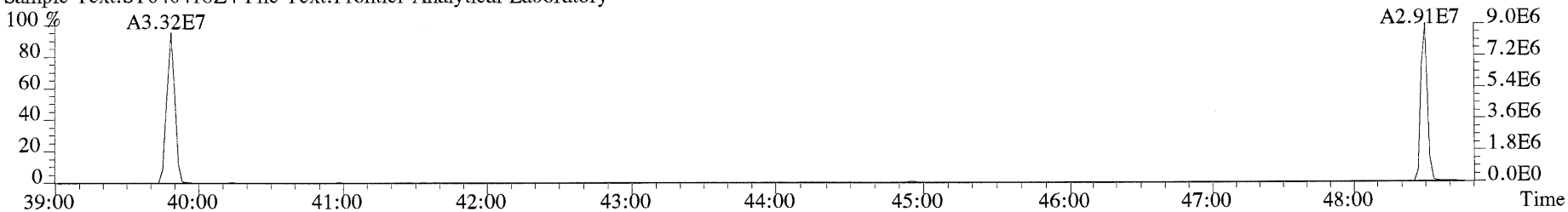
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



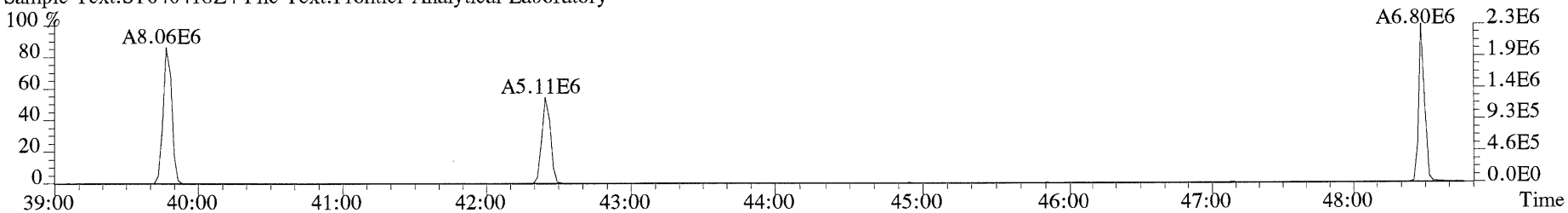
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



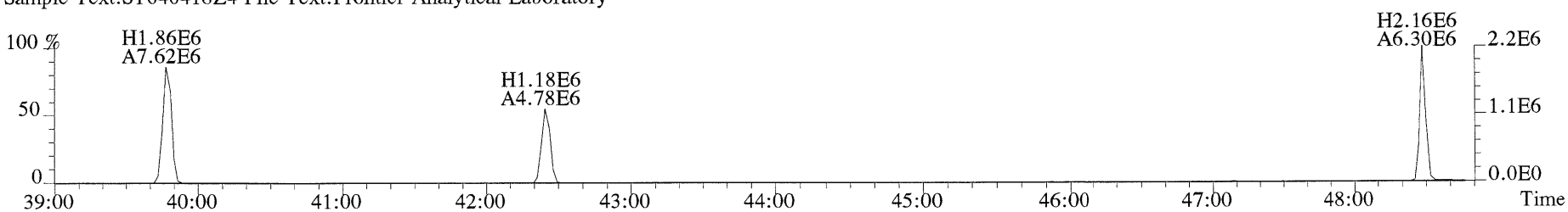
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



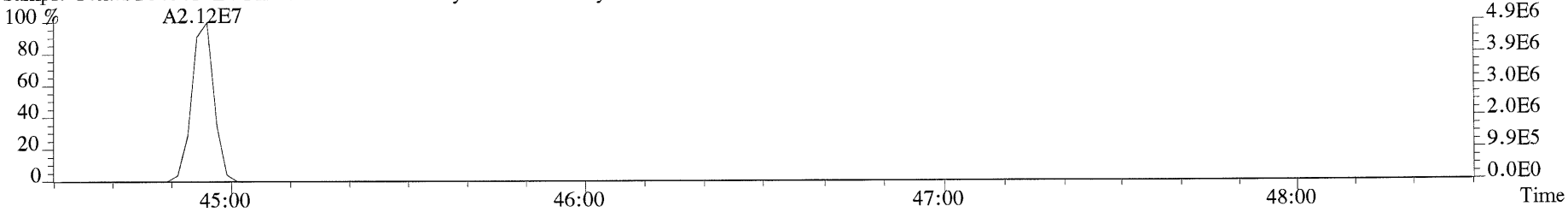
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



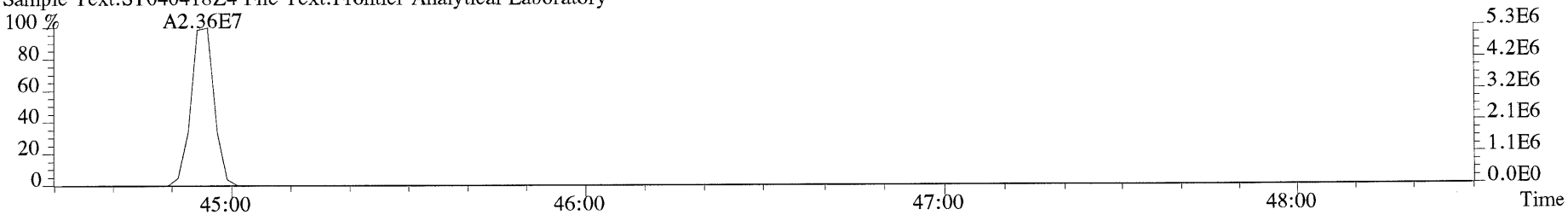
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



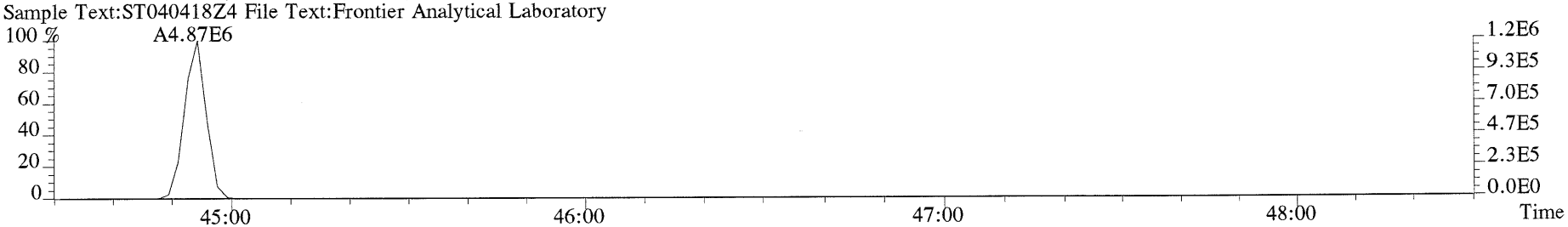
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



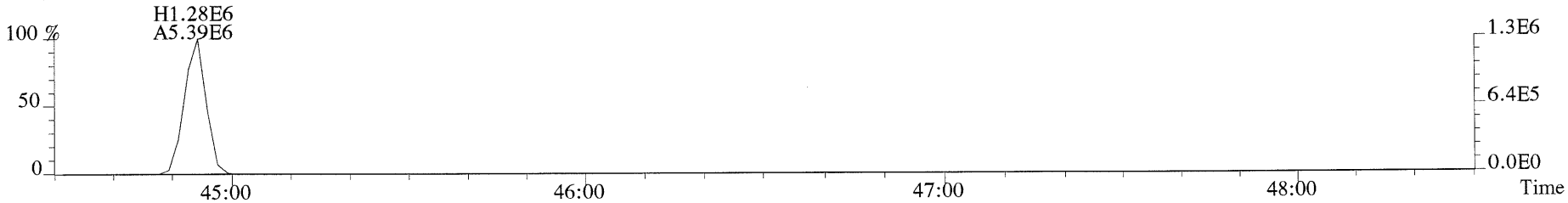
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



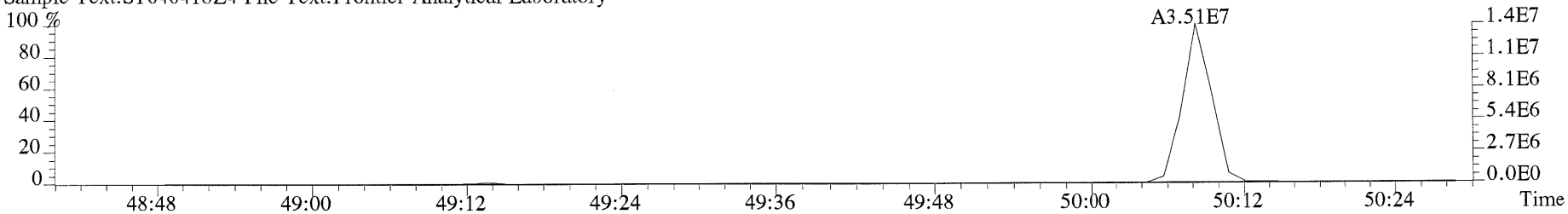
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



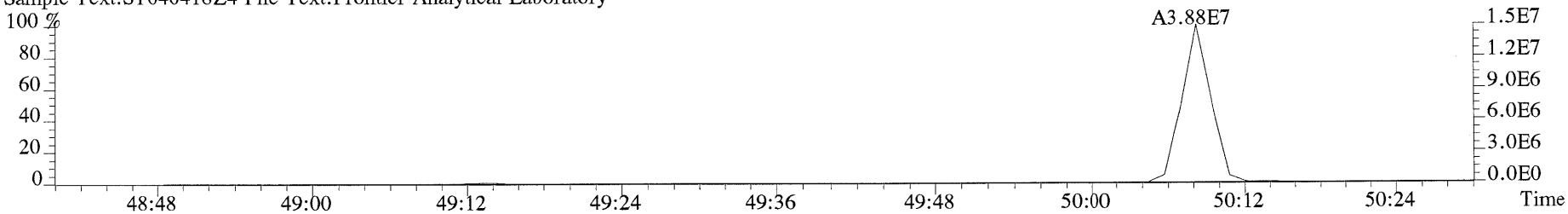
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



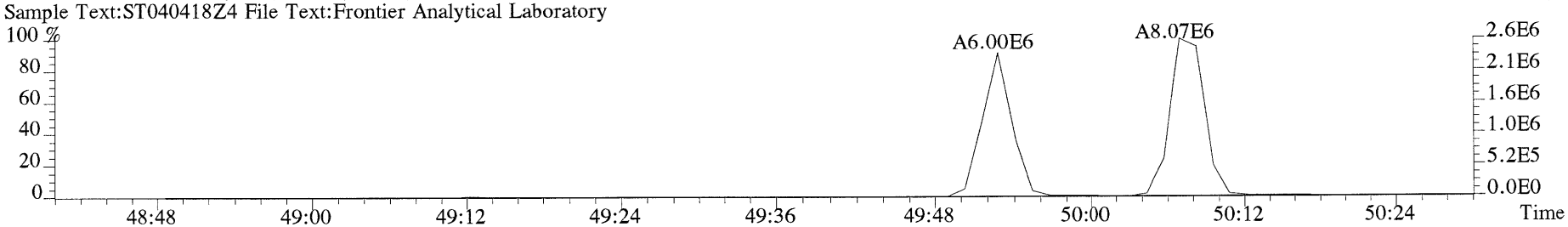
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



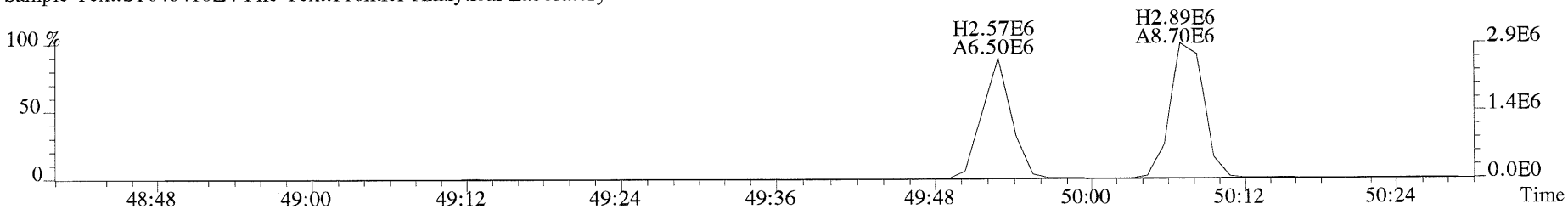
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



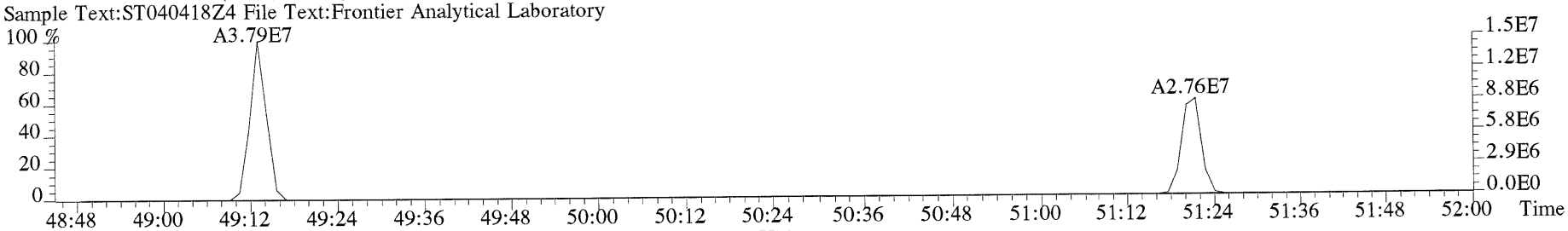
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



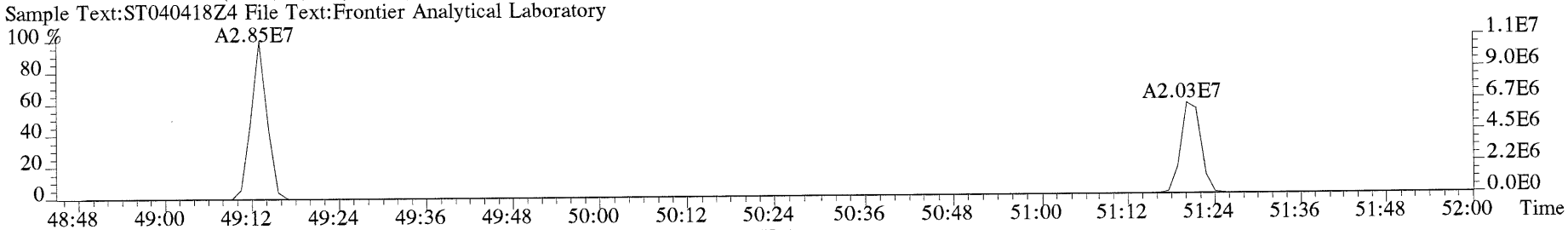
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



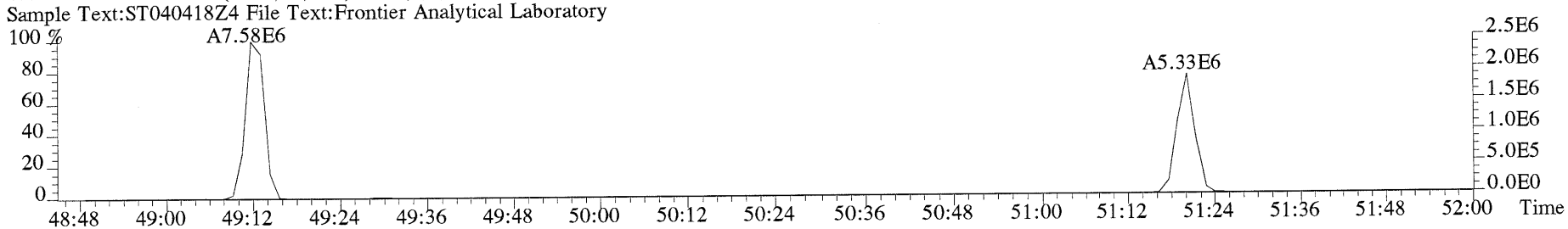
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



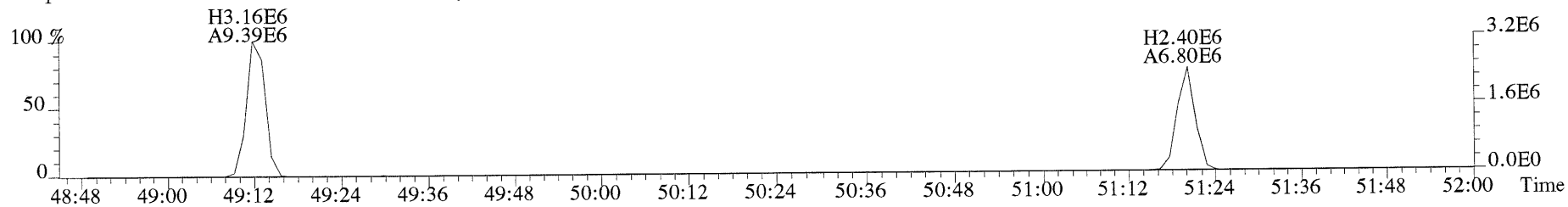
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



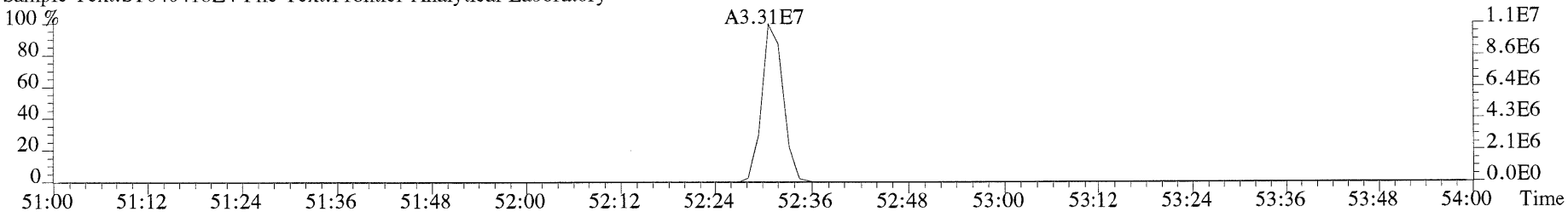
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



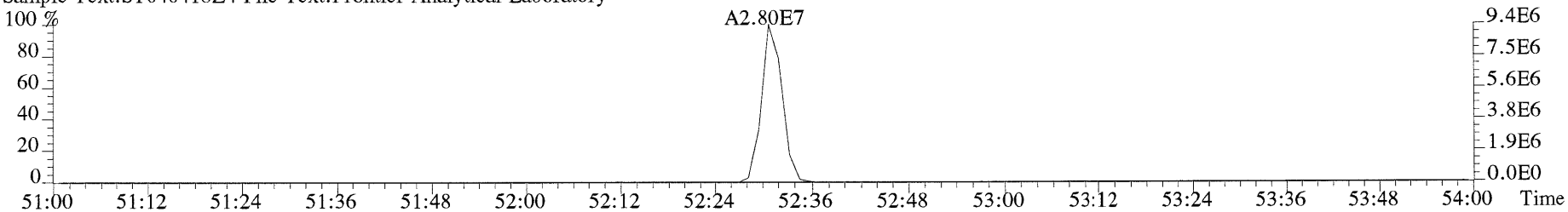
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



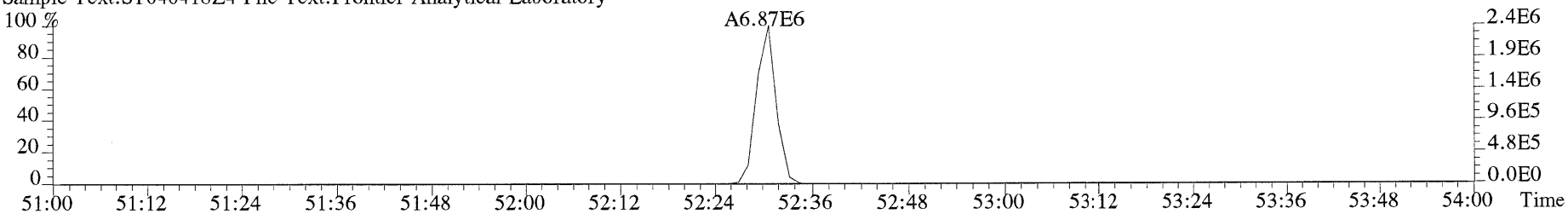
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



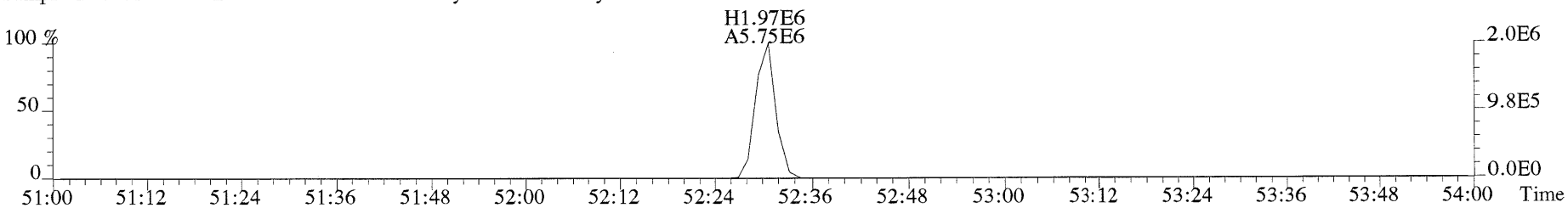
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



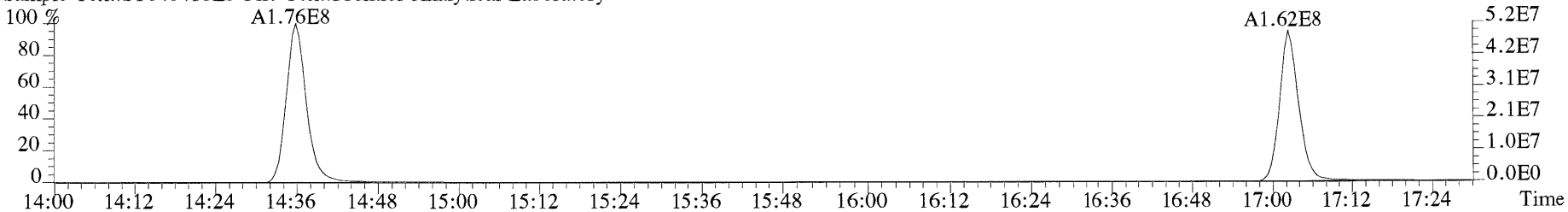
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



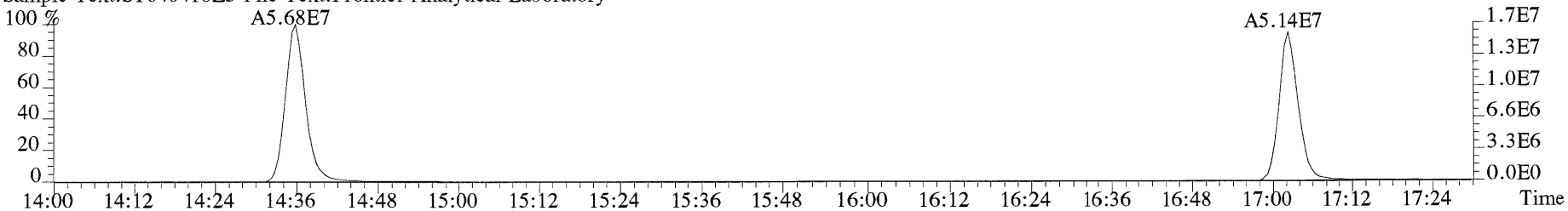
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



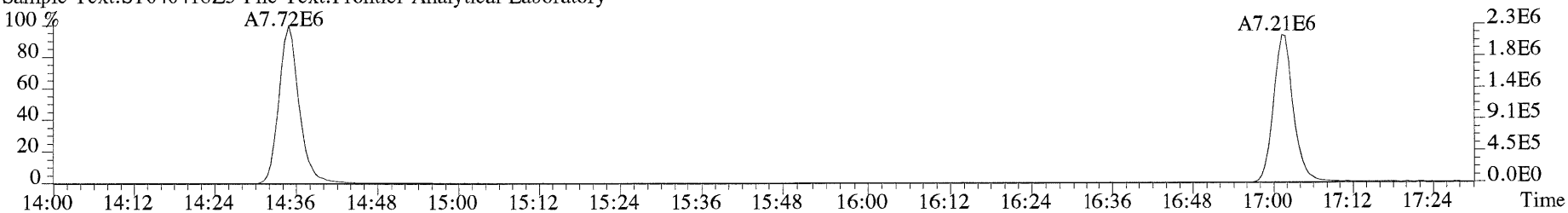
File:04APR18Z #1-783 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



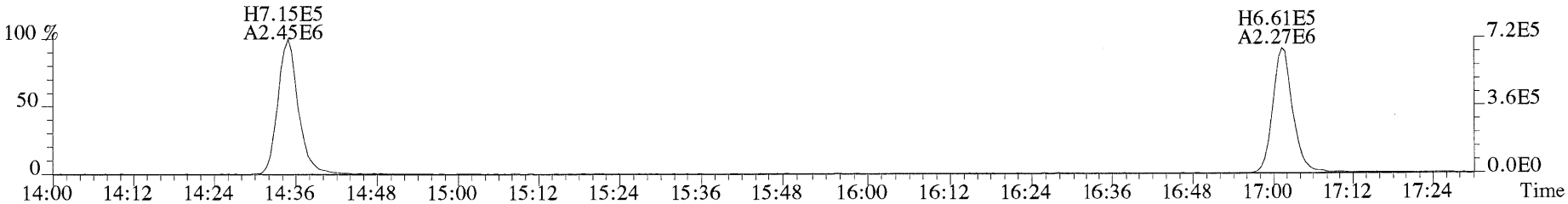
File:04APR18Z #1-783 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



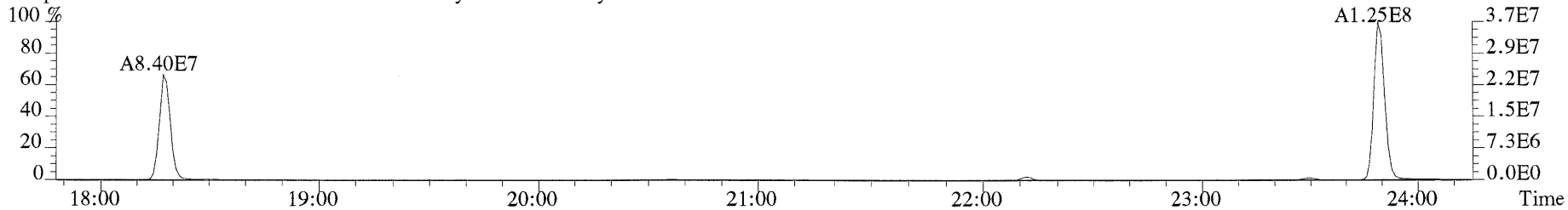
File:04APR18Z #1-783 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



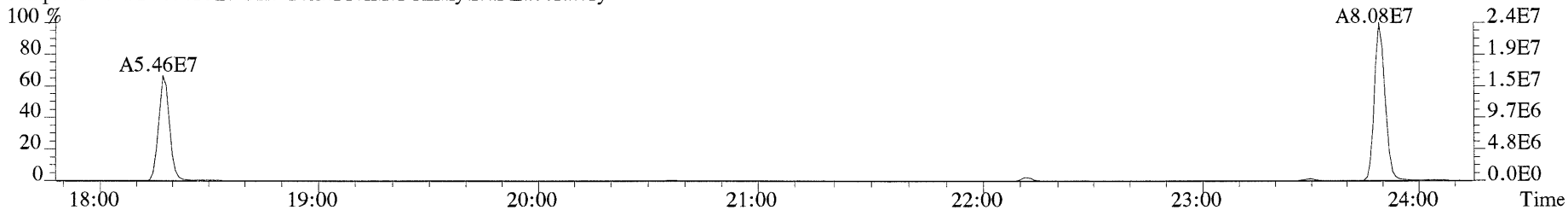
File:04APR18Z #1-783 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



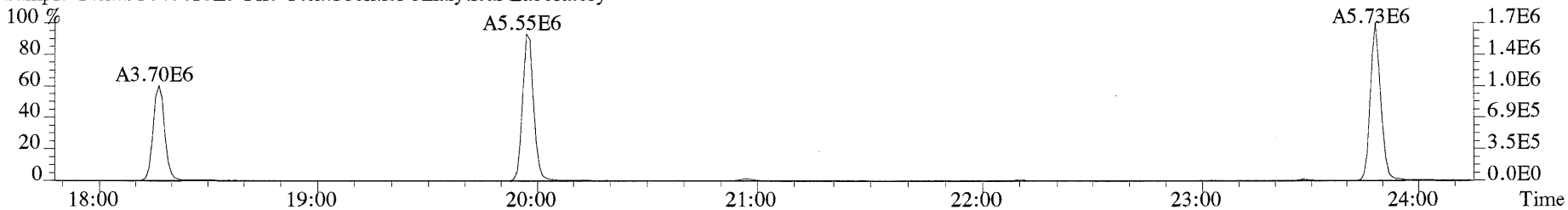
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



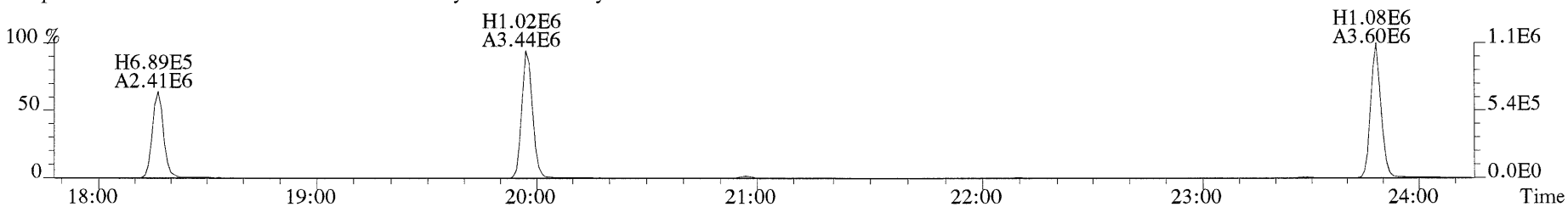
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



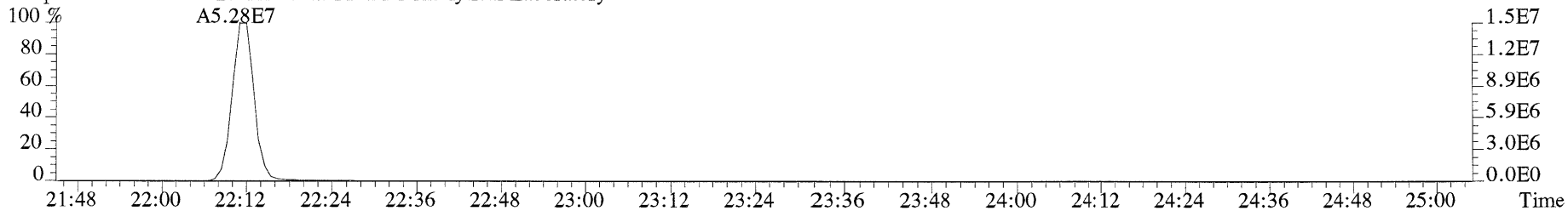
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



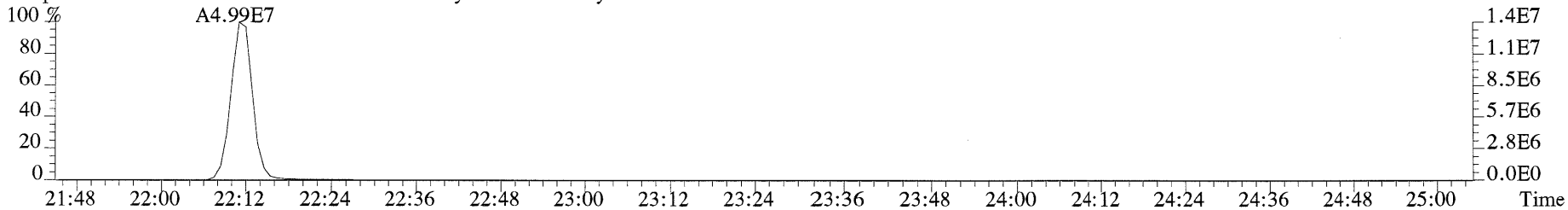
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



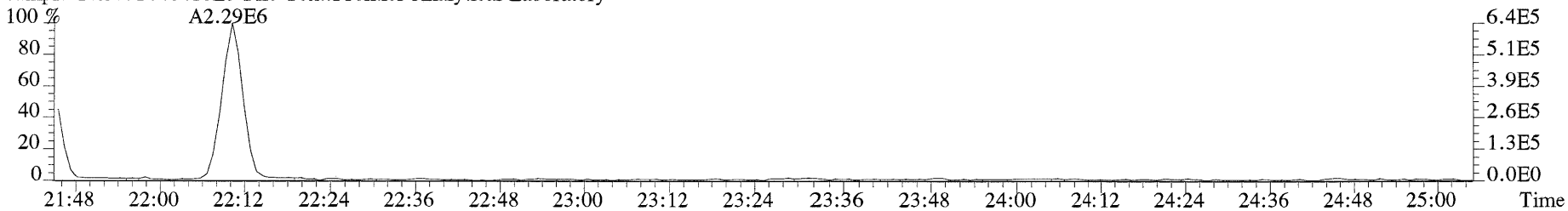
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



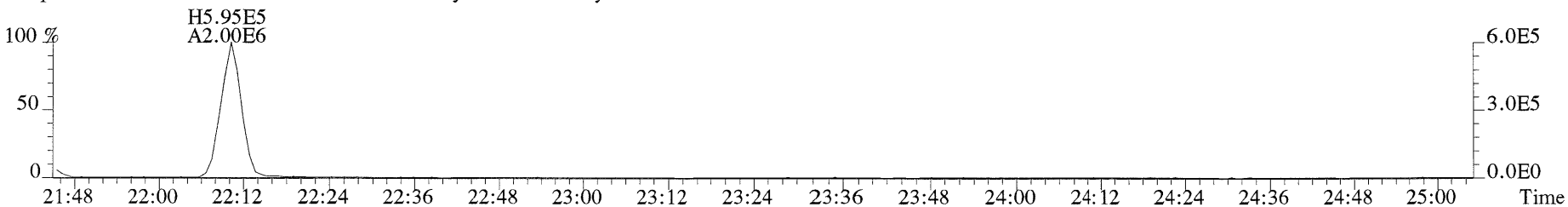
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



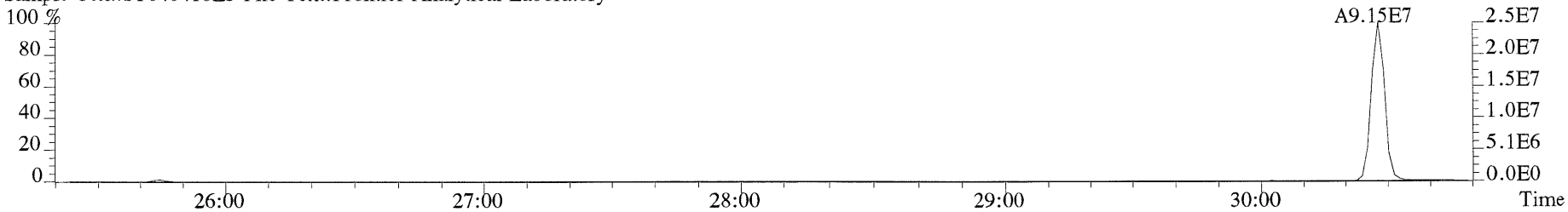
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



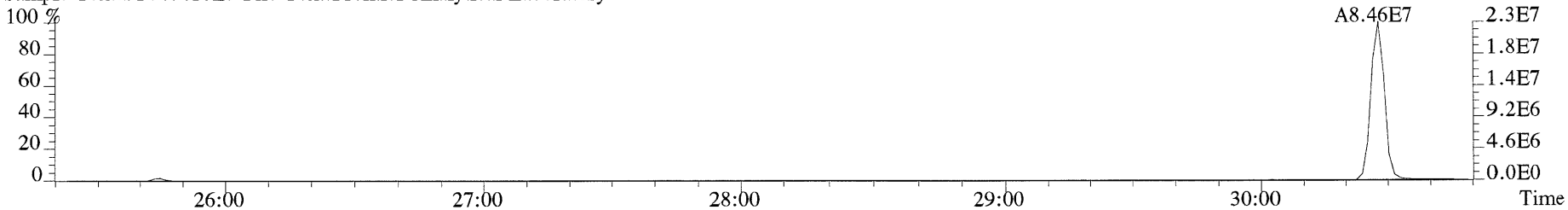
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



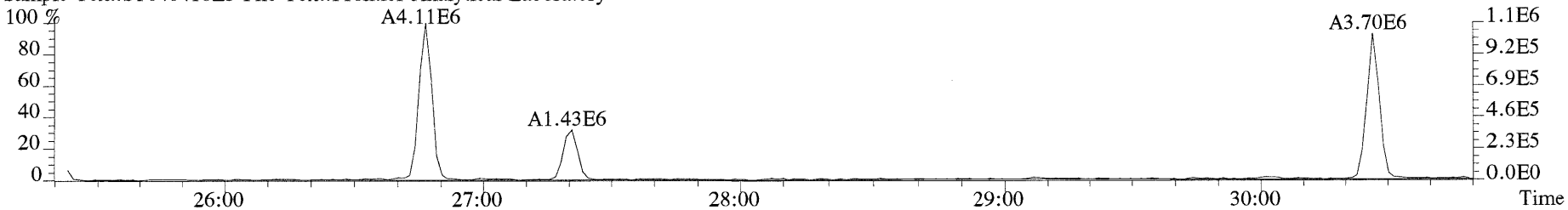
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



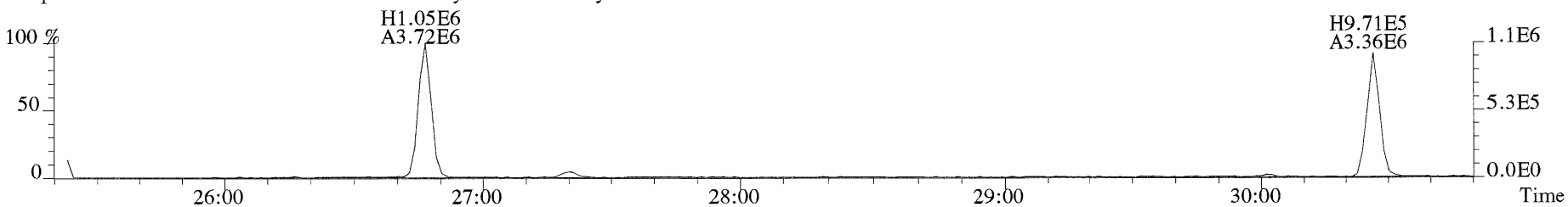
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



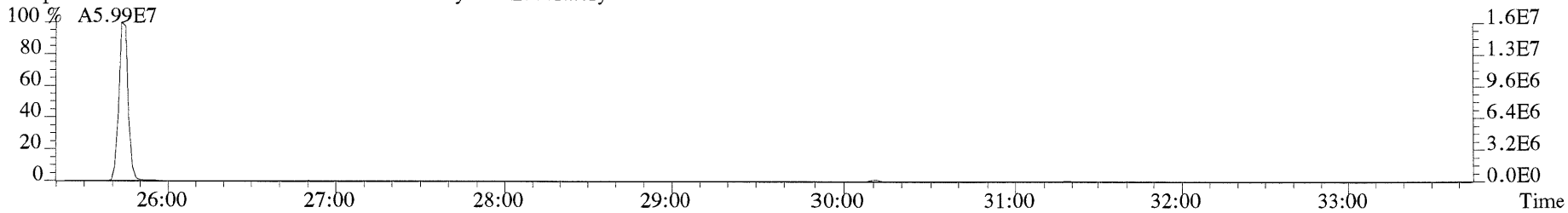
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



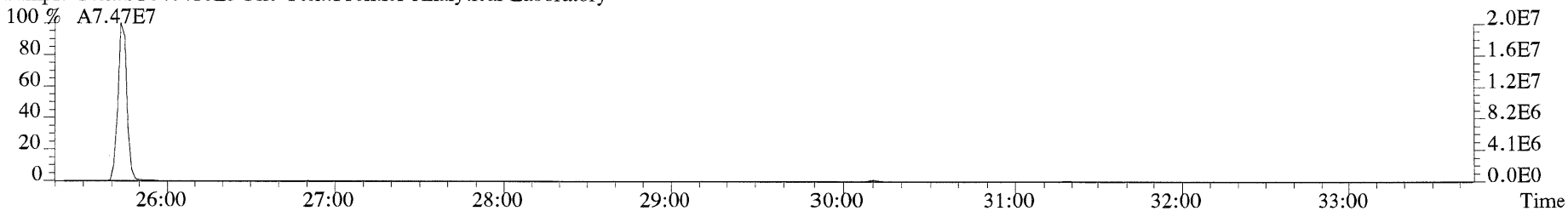
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



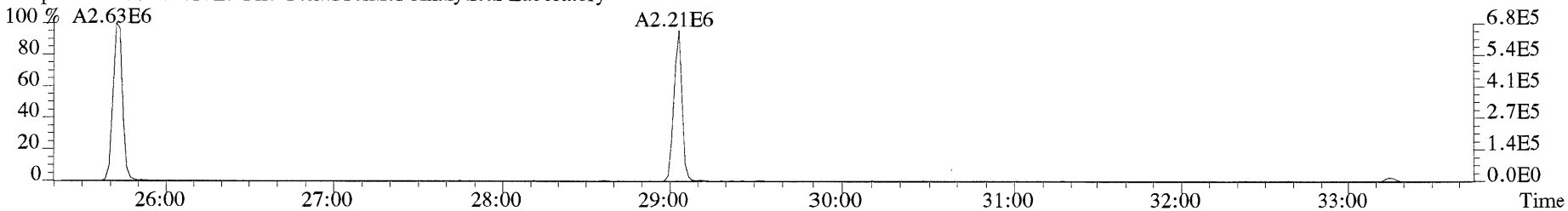
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



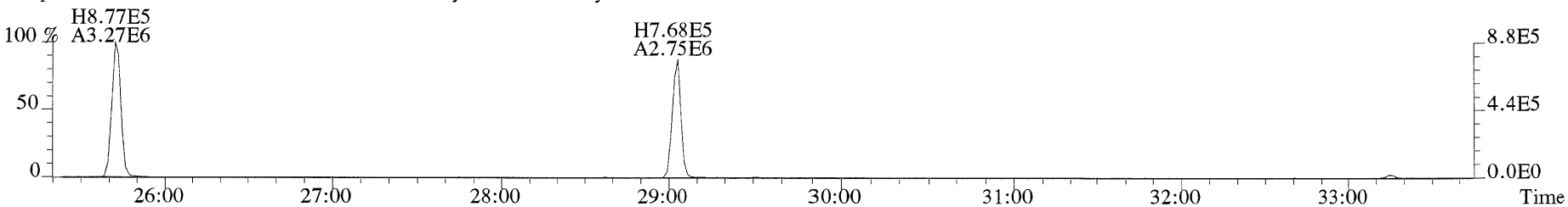
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



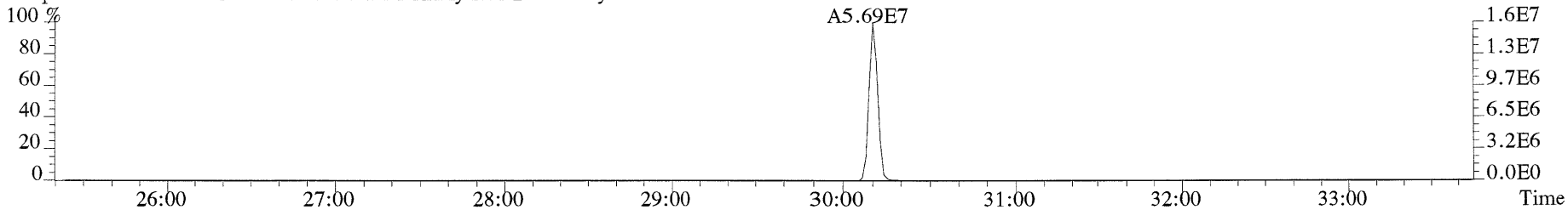
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



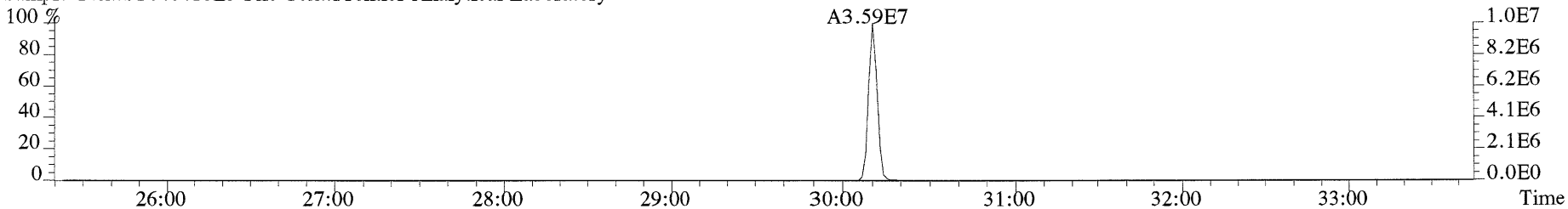
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



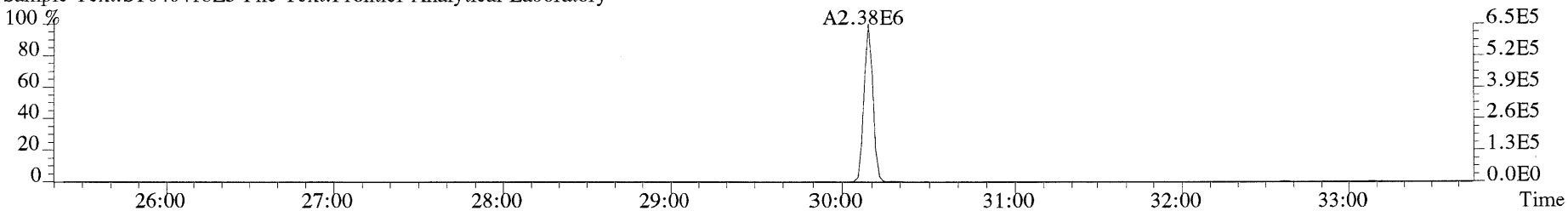
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



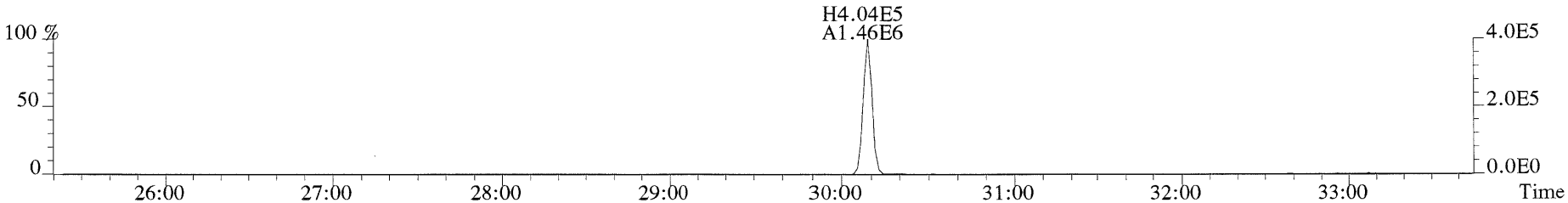
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



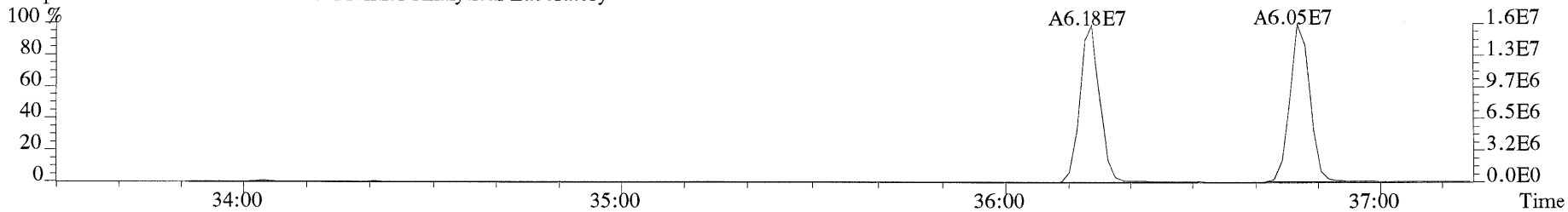
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



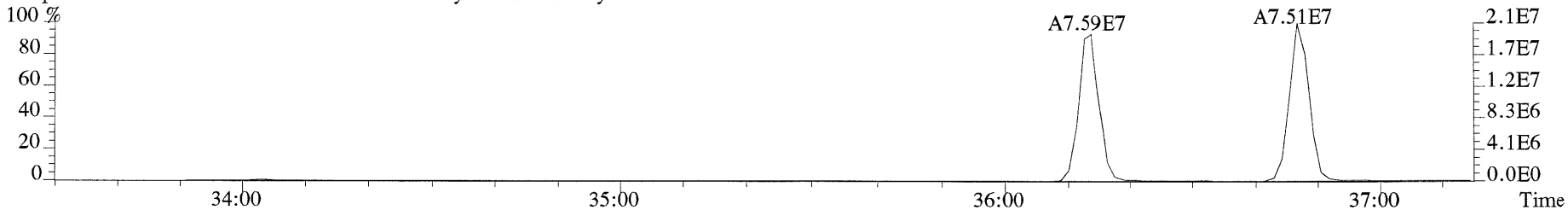
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



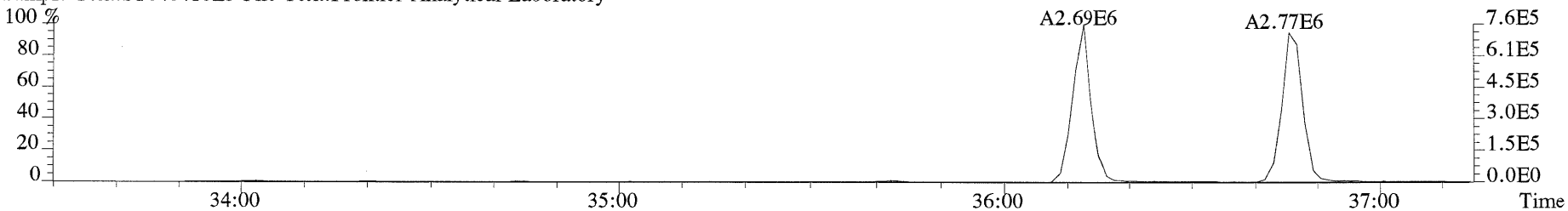
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



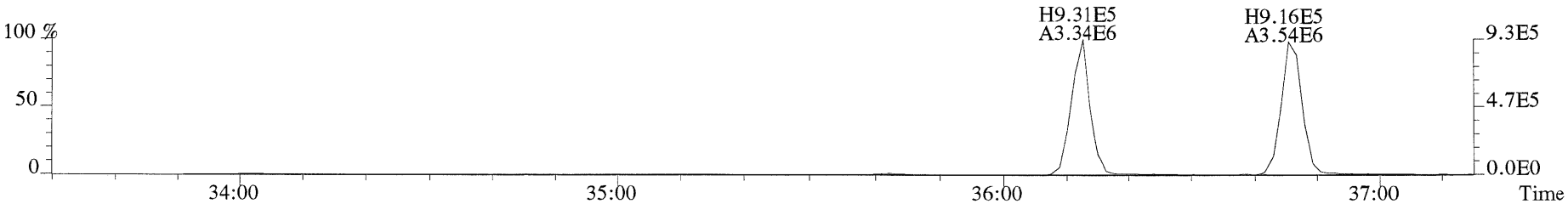
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



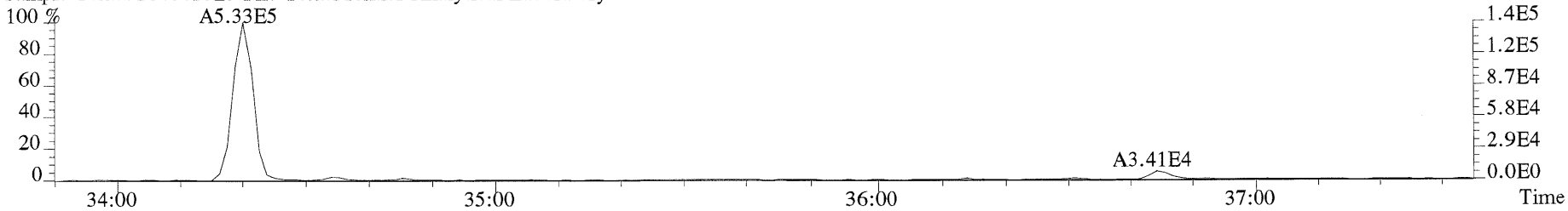
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



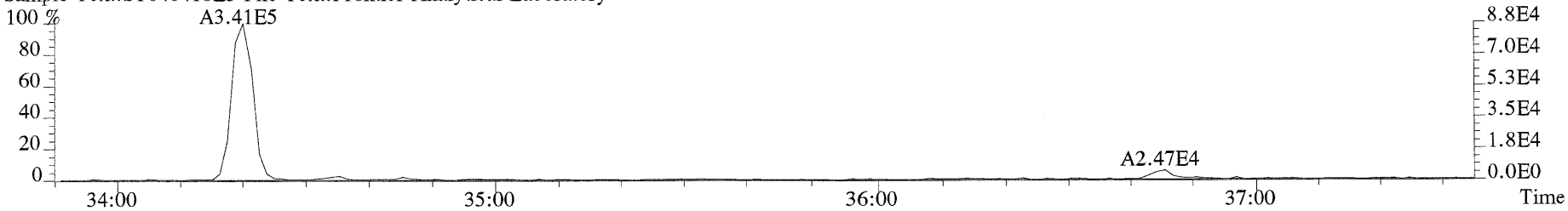
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



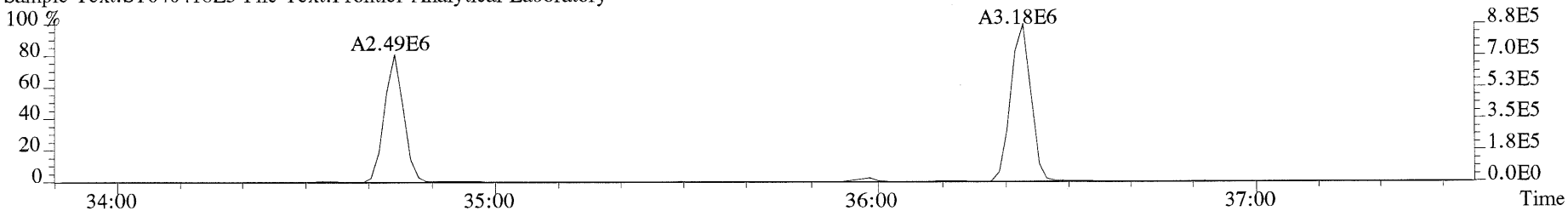
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



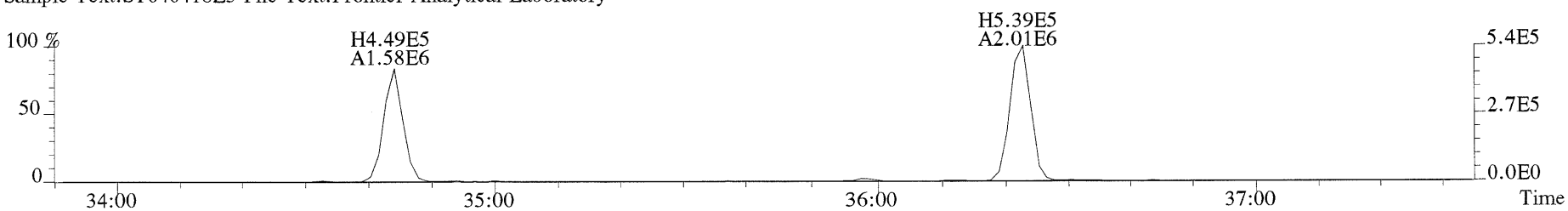
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



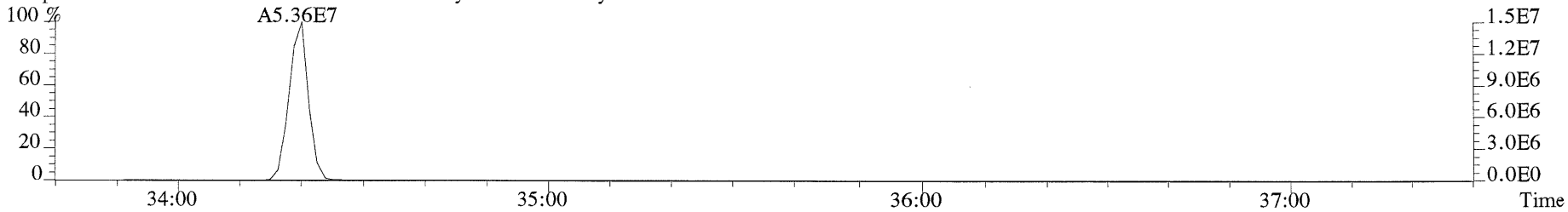
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



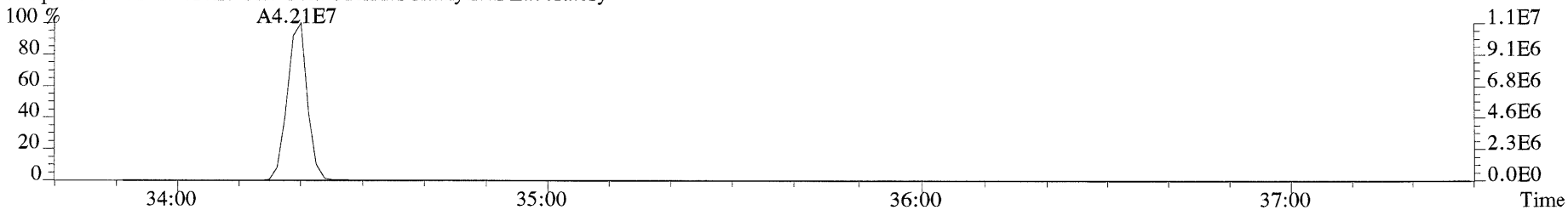
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



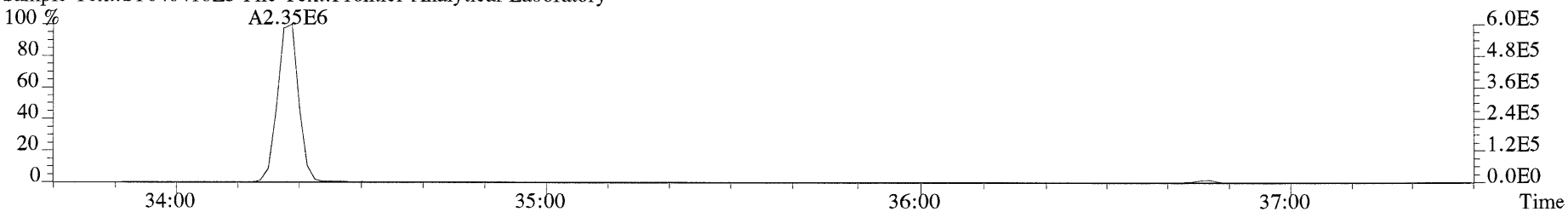
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



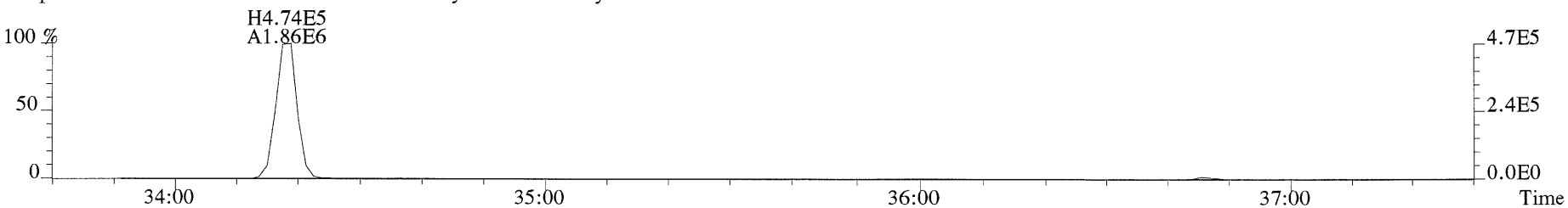
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



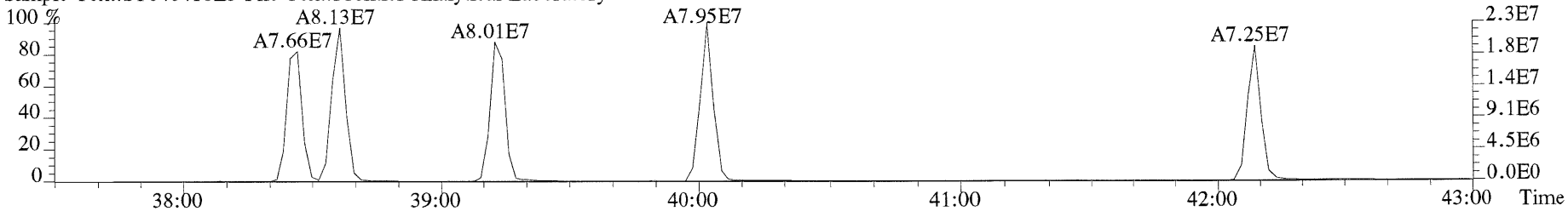
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



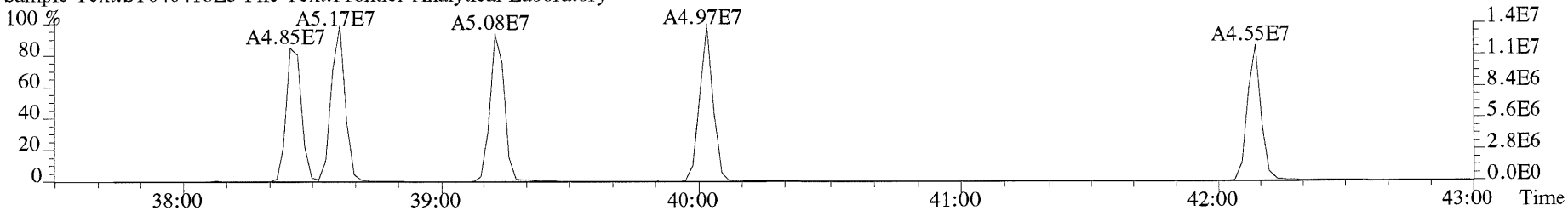
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



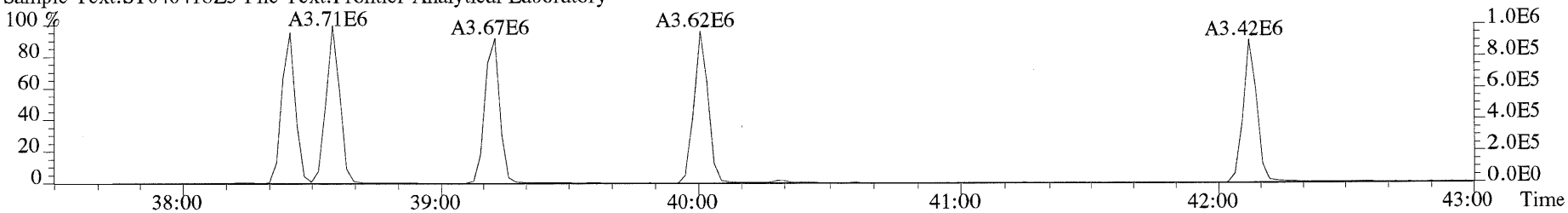
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



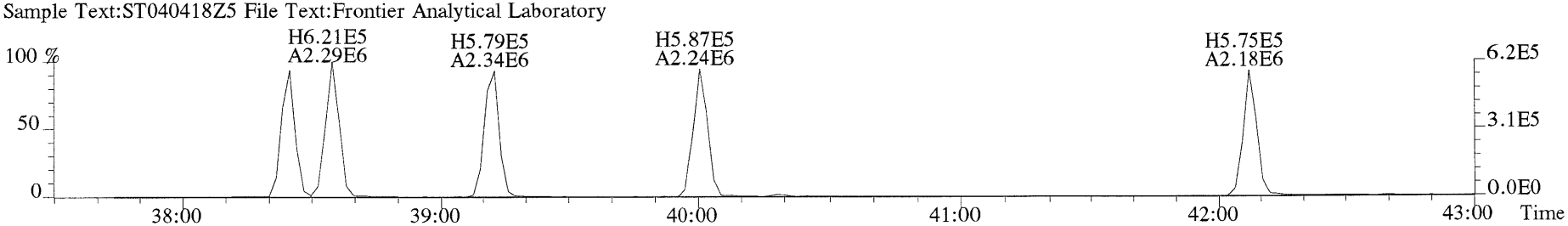
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



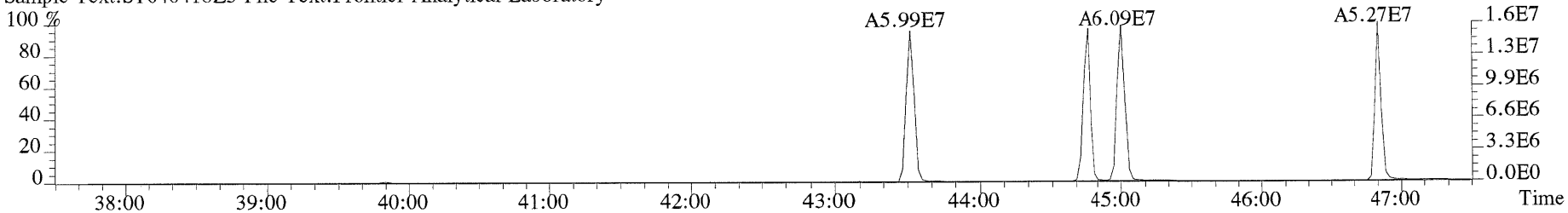
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



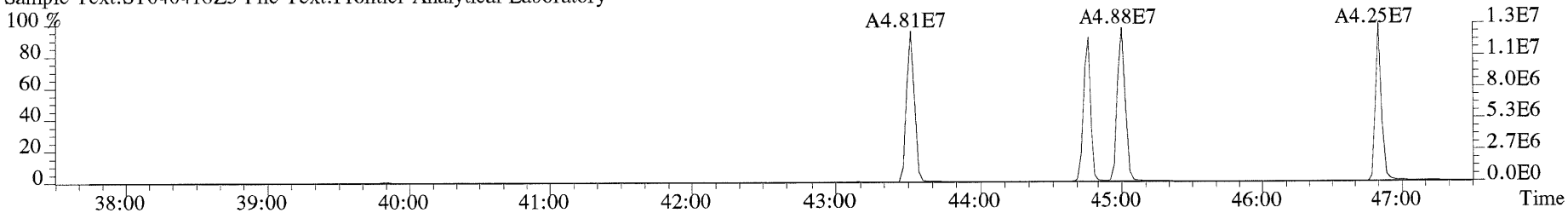
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



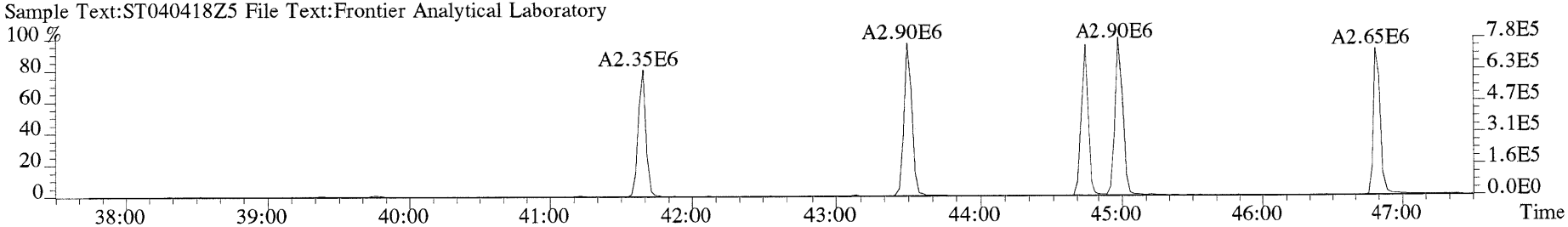
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



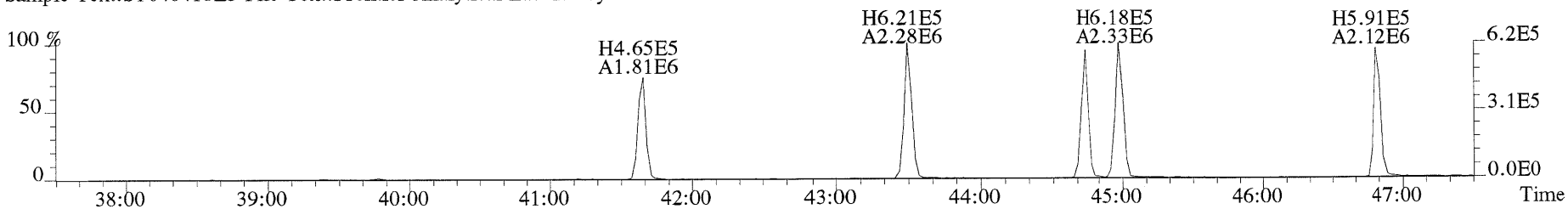
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



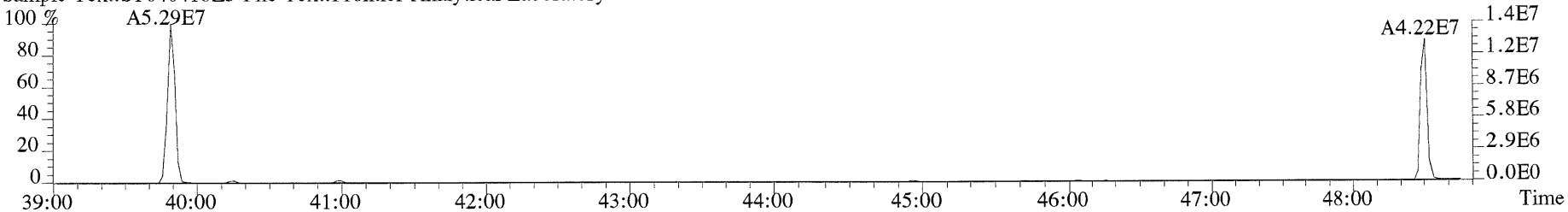
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



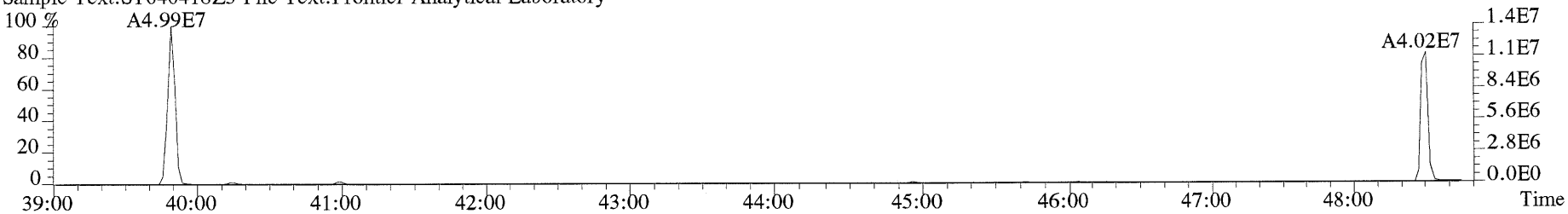
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



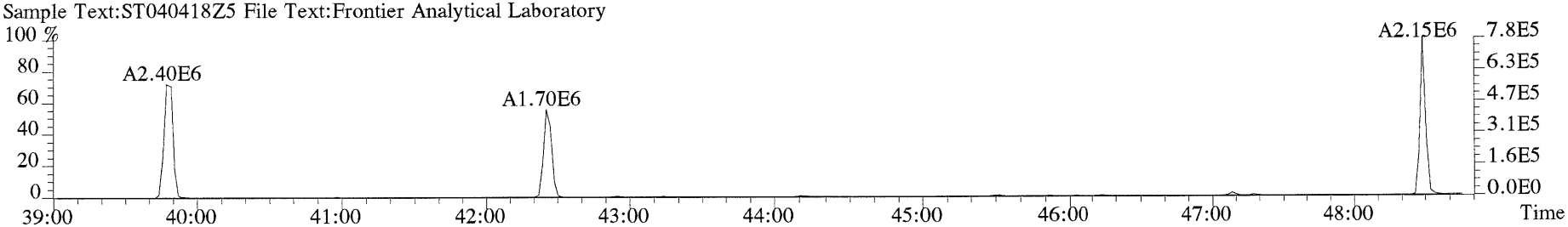
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



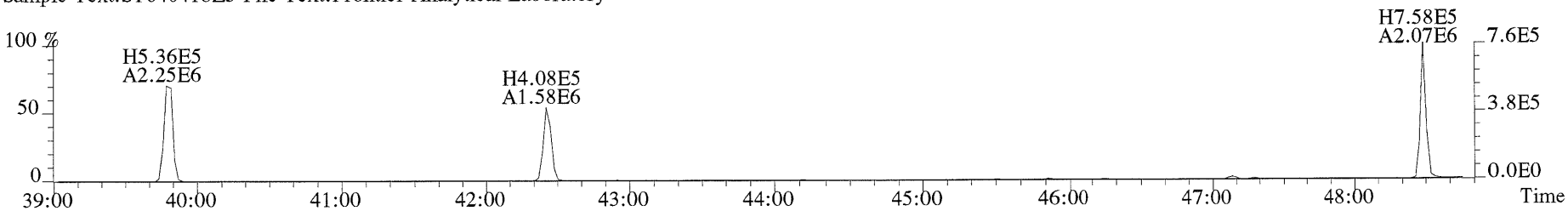
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



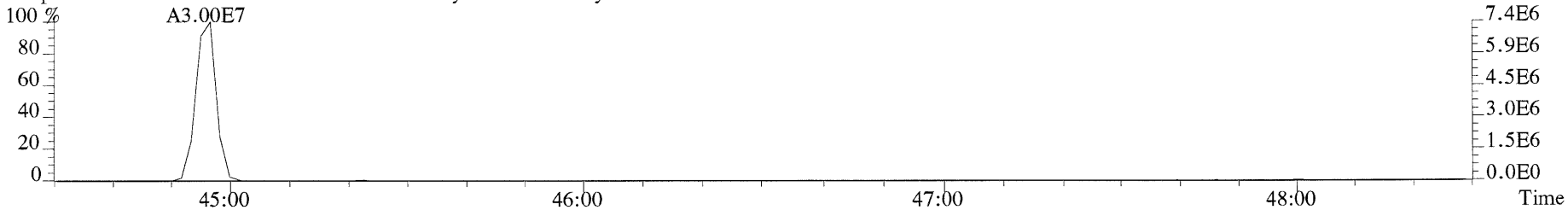
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



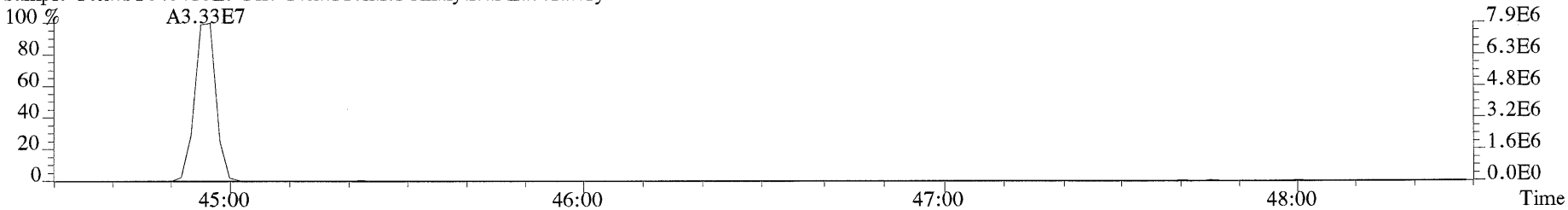
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



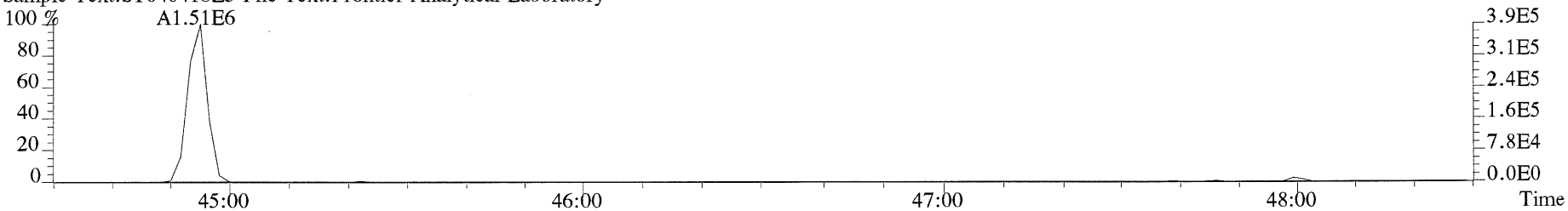
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



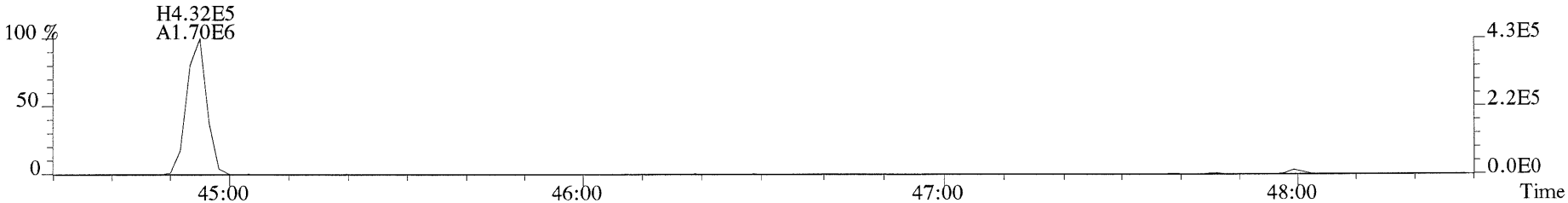
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



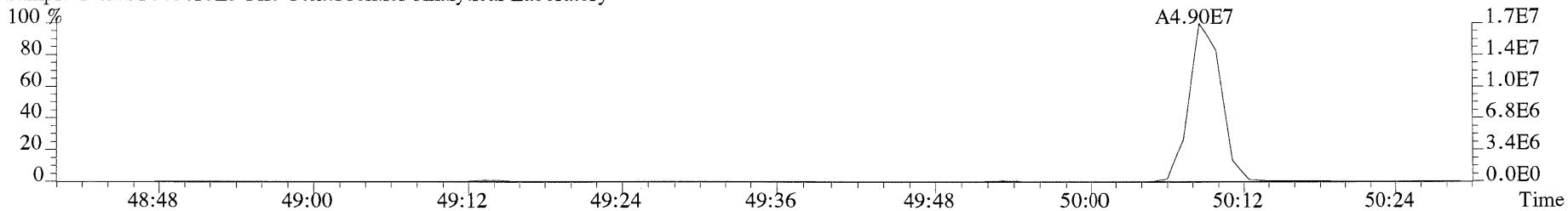
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



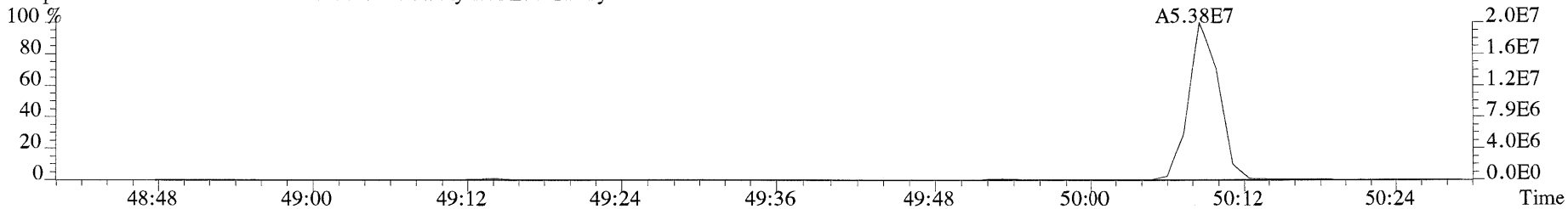
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



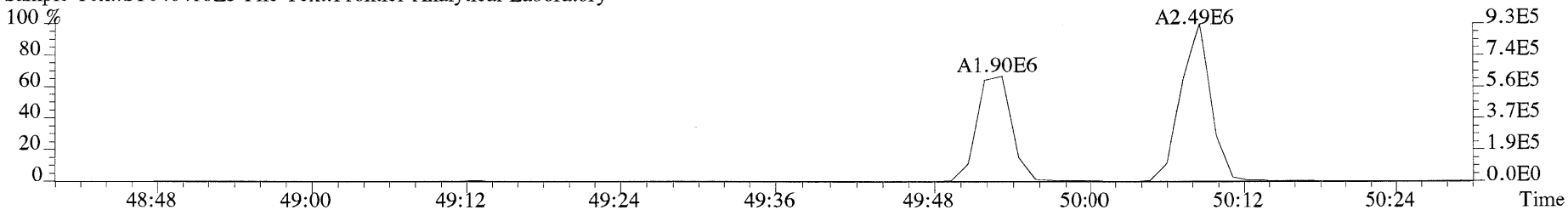
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



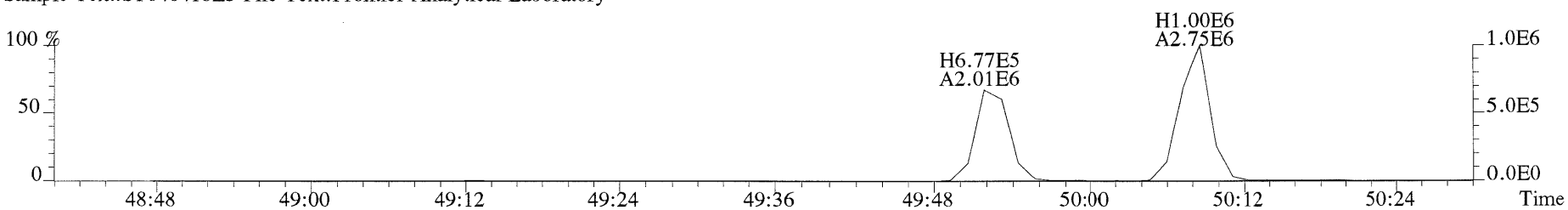
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 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:ST040418Z5 File Text:Frontier Analytical Laboratory



File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 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:ST040418Z5 File Text:Frontier Analytical Laboratory



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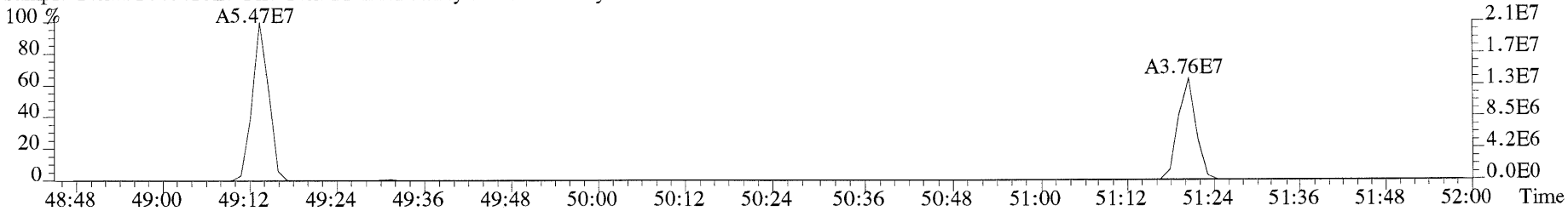
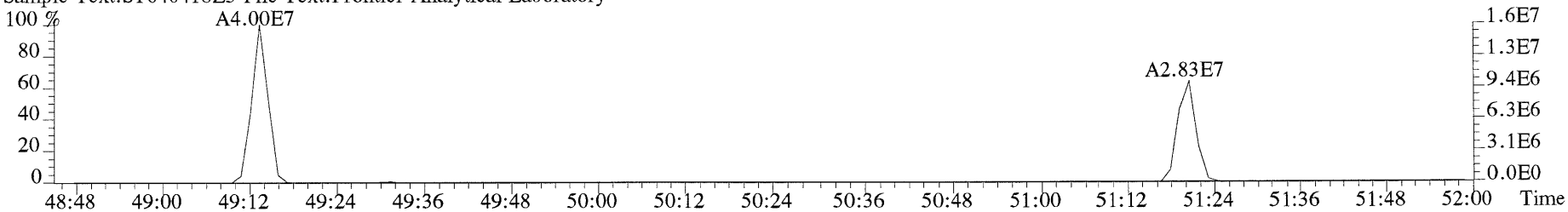
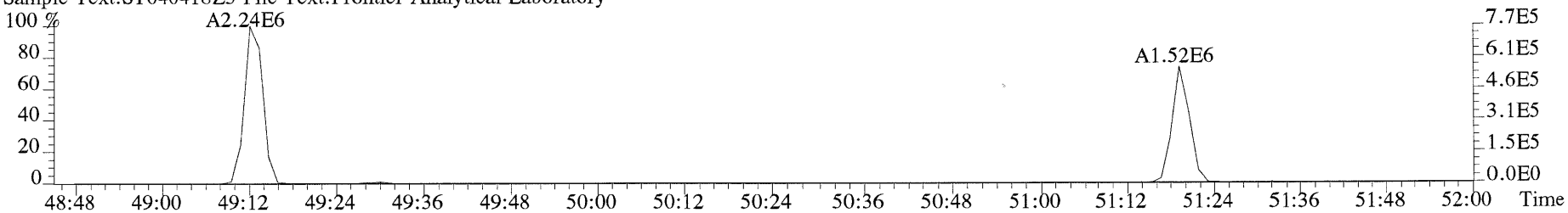
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



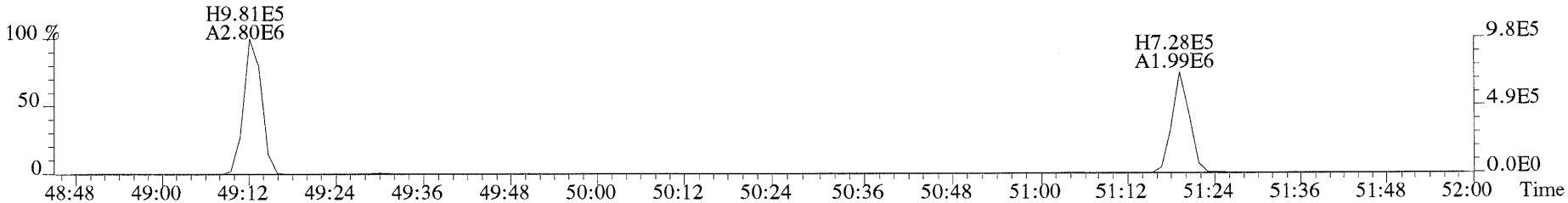
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



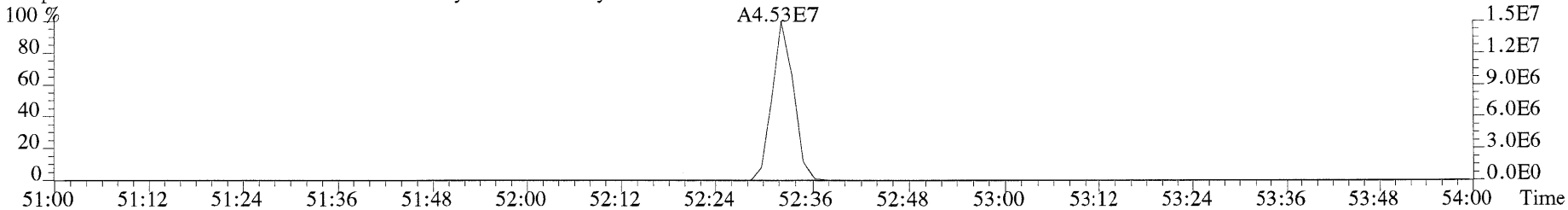
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



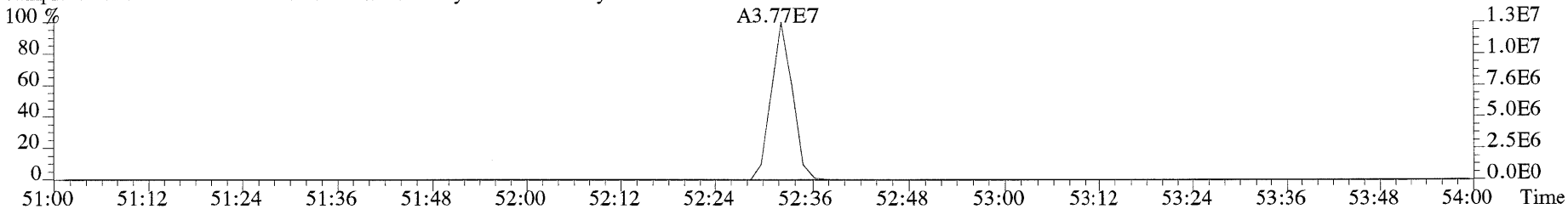
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



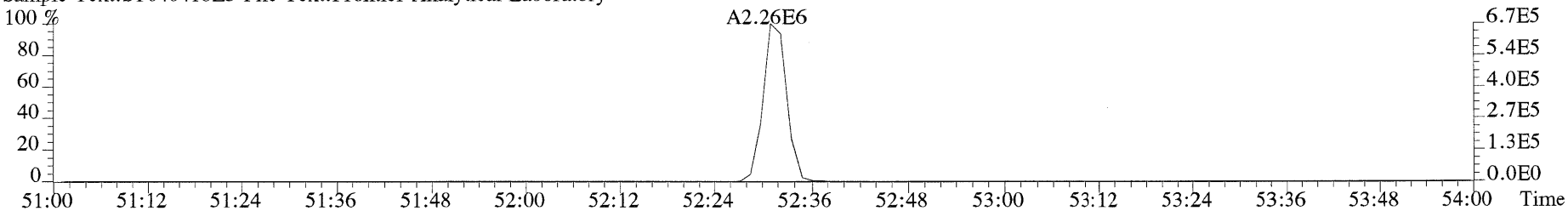
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



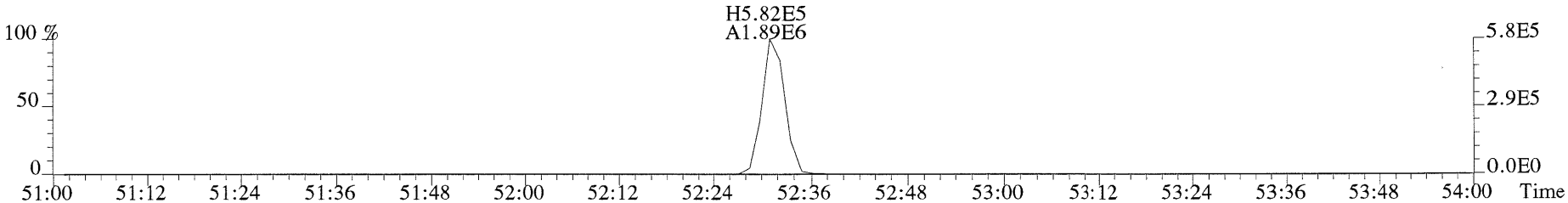
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



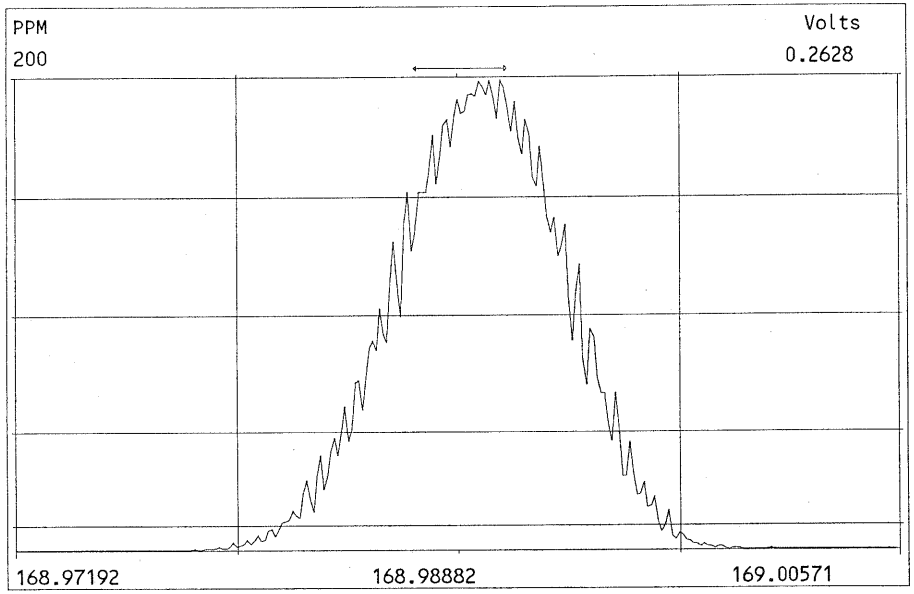
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory

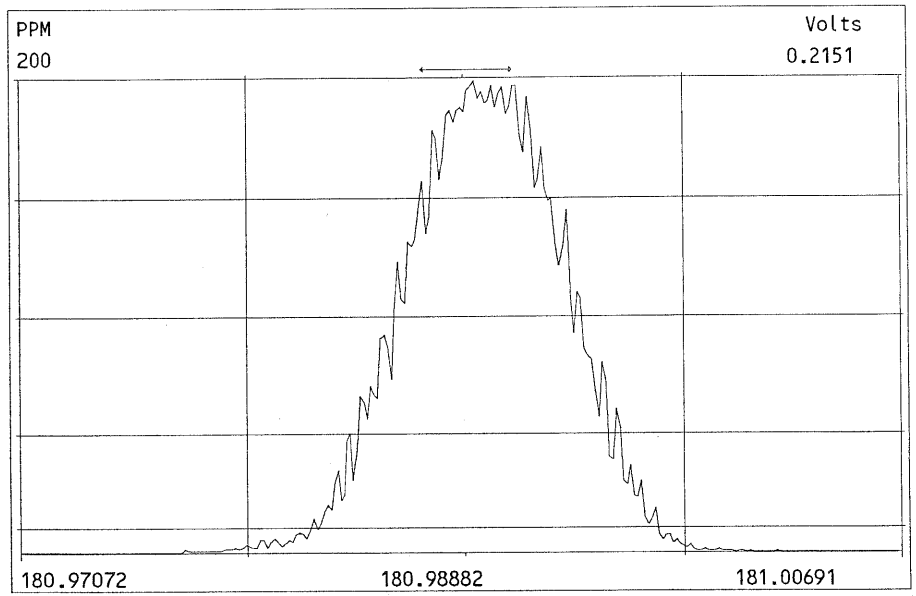


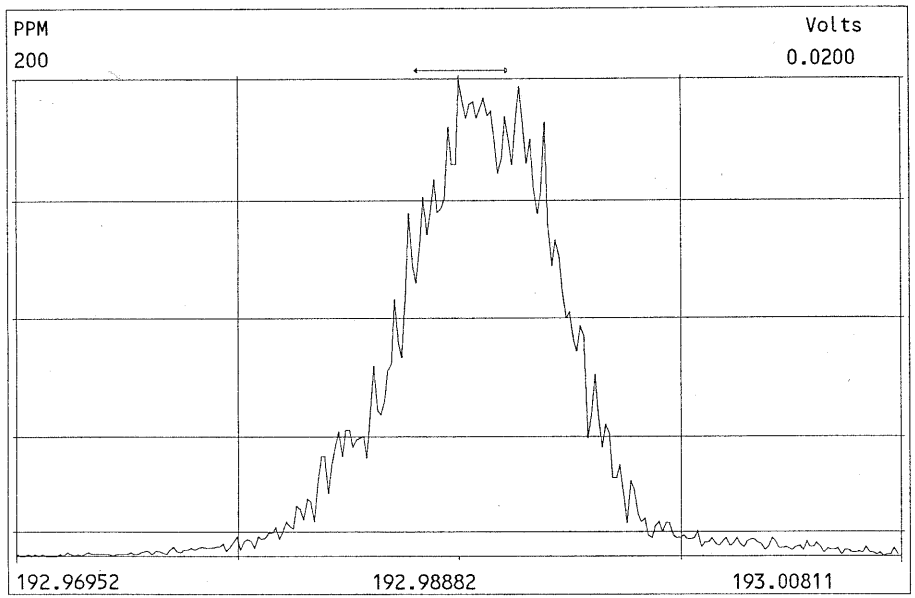
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory

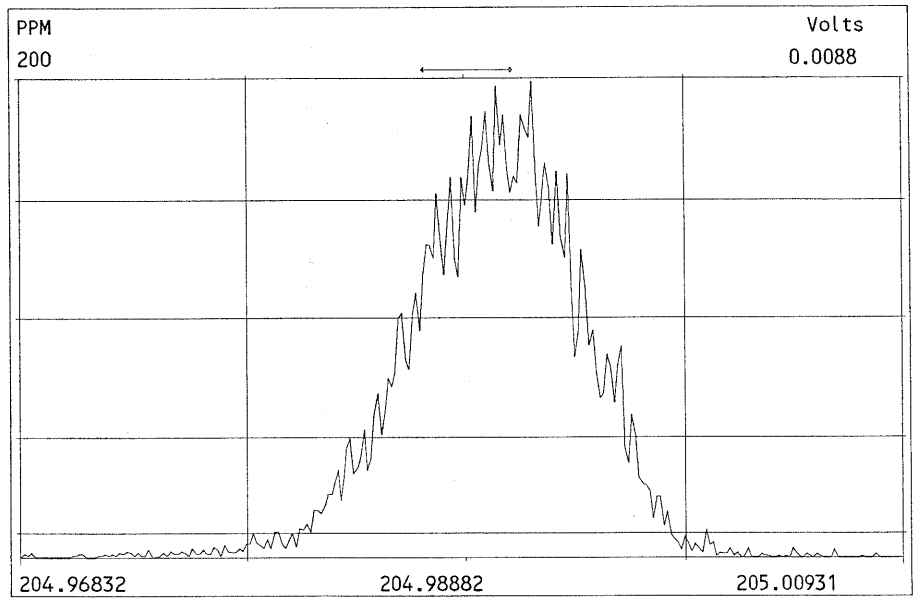


Peak Locate Examination: 5-APR-2018:08:20 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

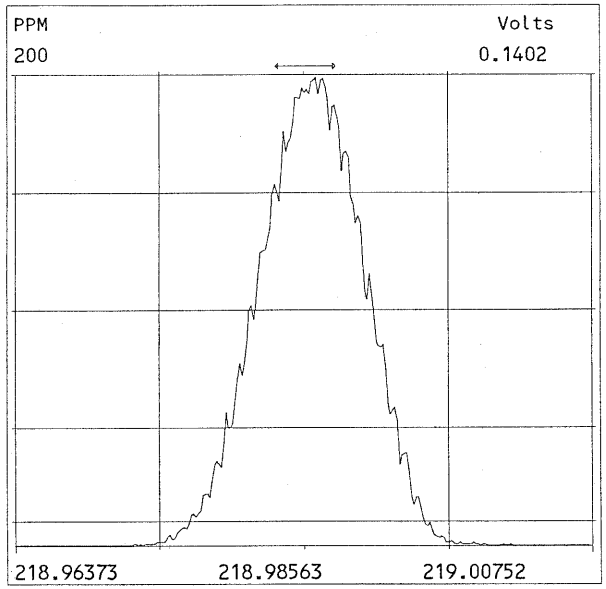


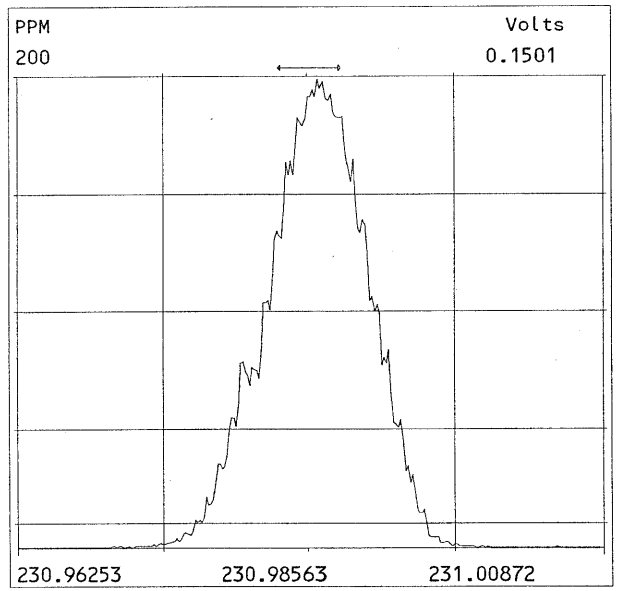


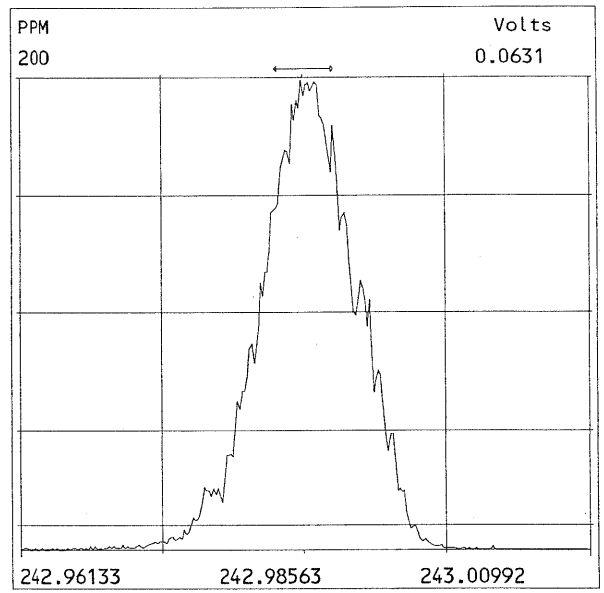


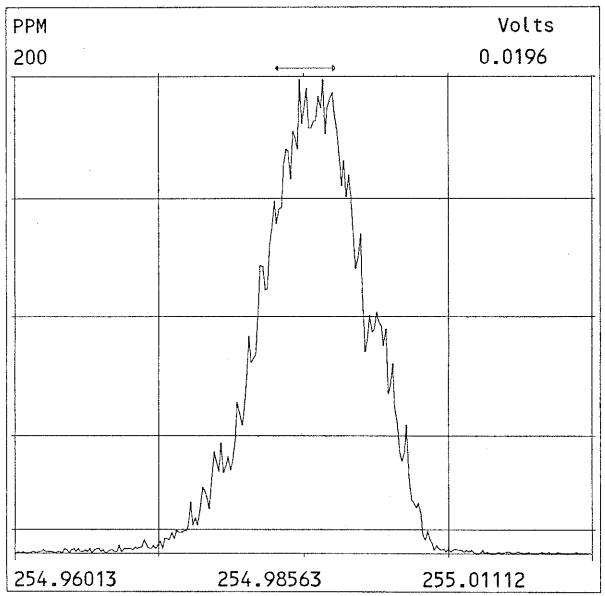


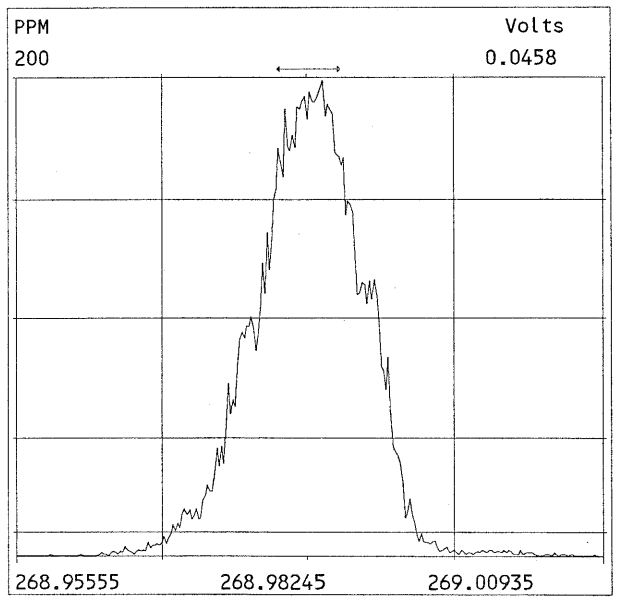
Peak Locate Examination: 5-APR-2018:08:21 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

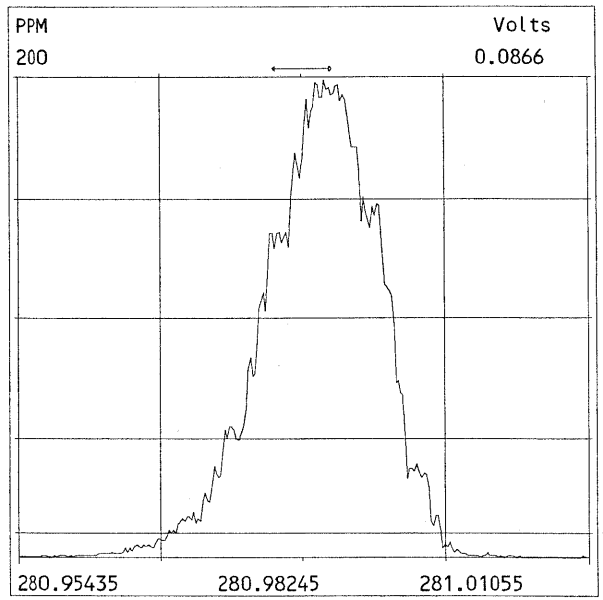




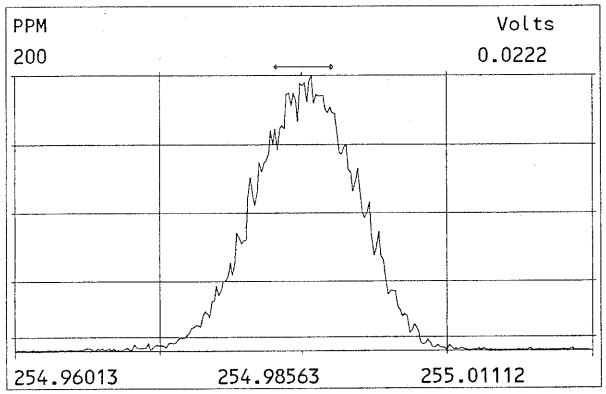


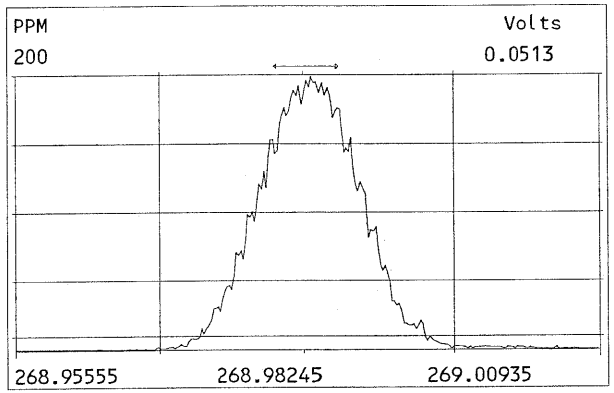


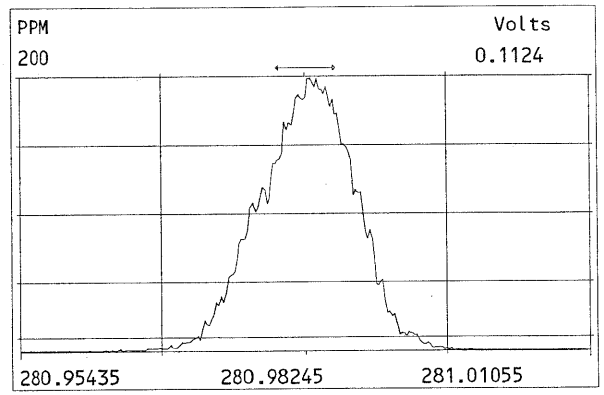


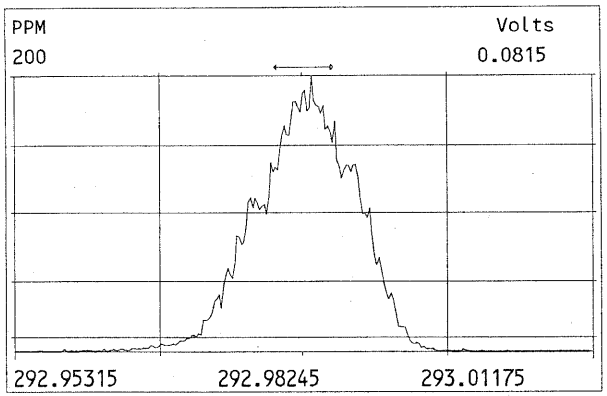


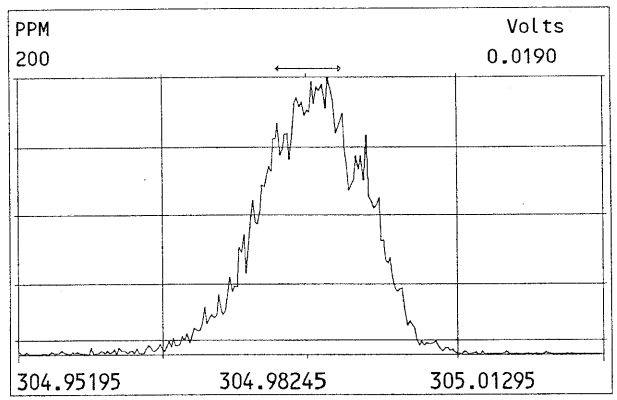
Peak Locate Examination: 5-APR-2018:08:21 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

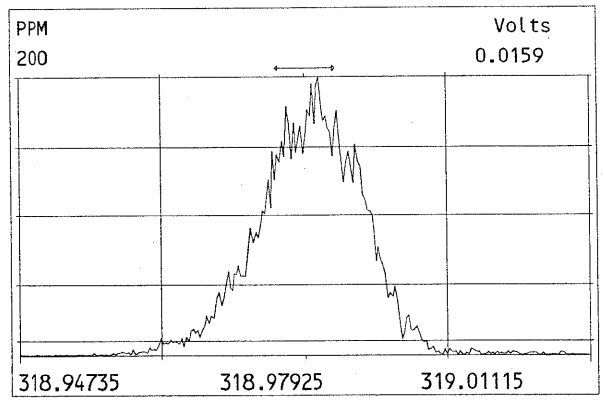


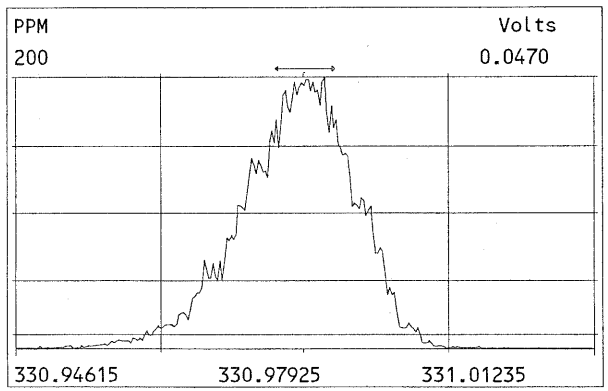


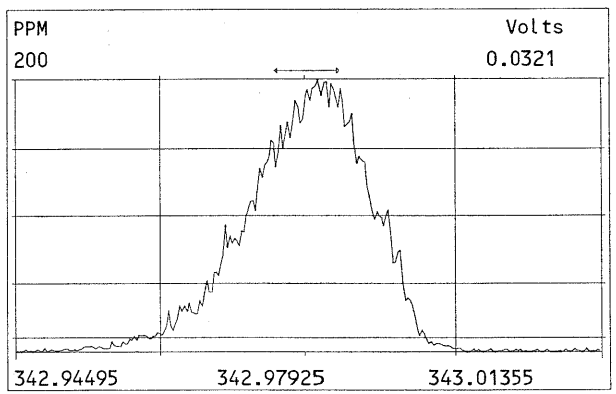




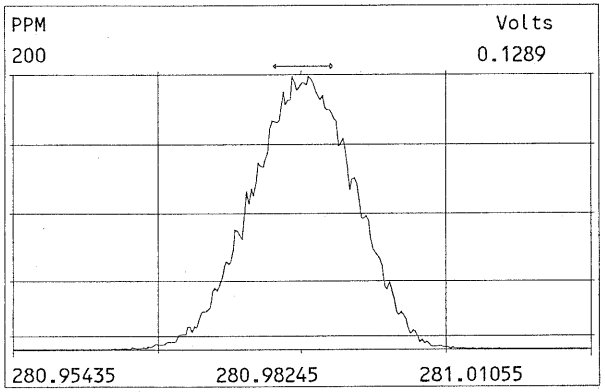


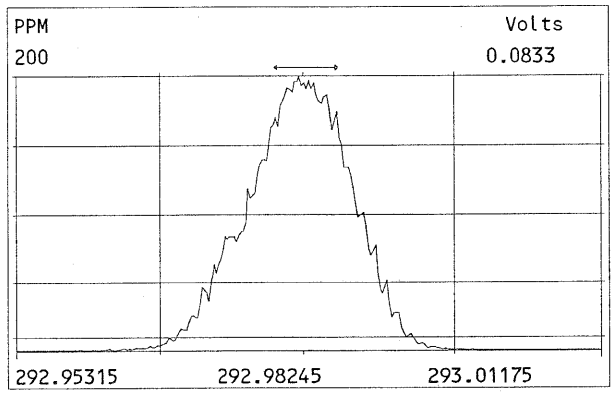


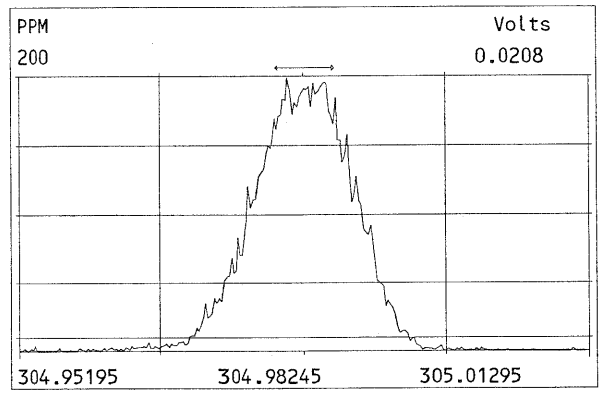


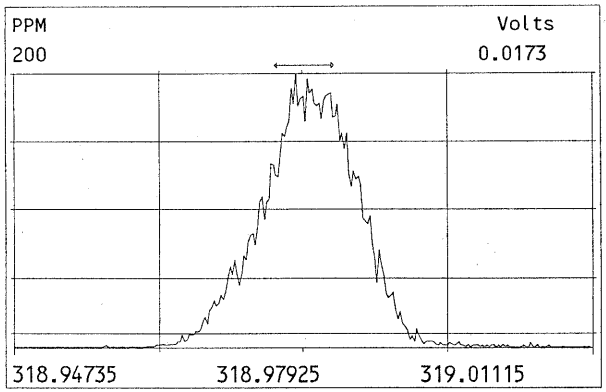


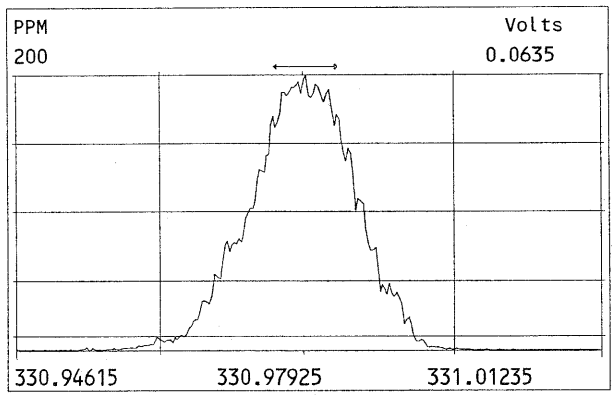
Peak Locate Examination: 5-APR-2018:08:22 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

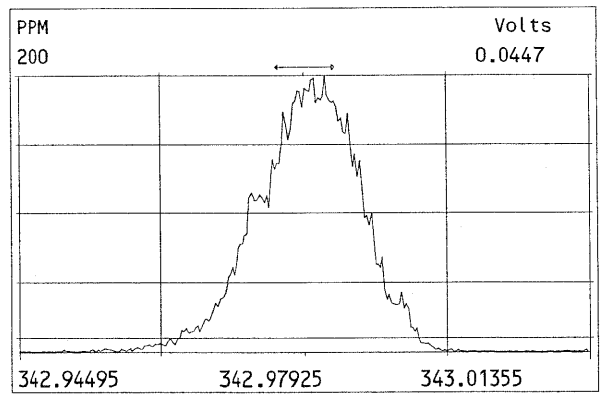


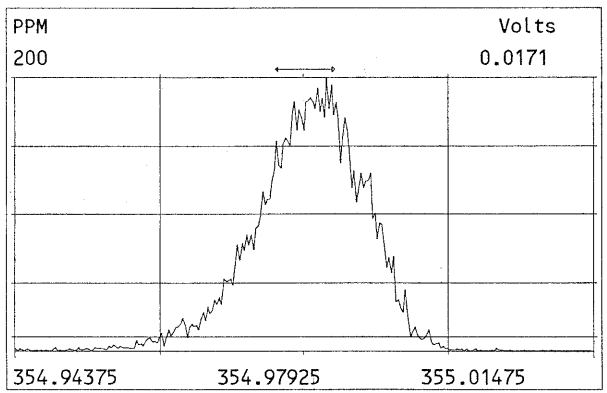


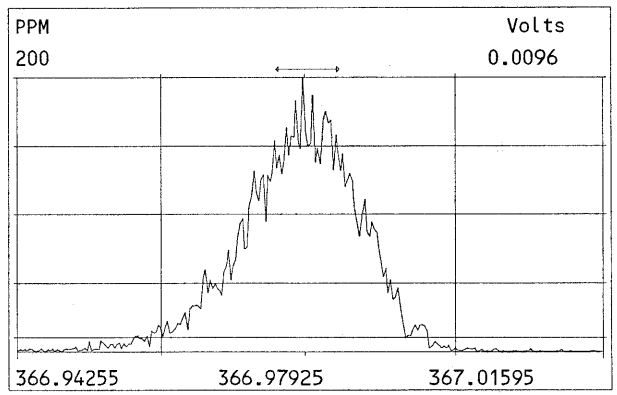


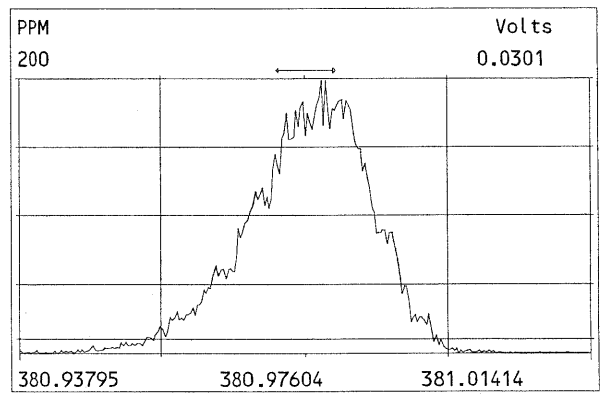




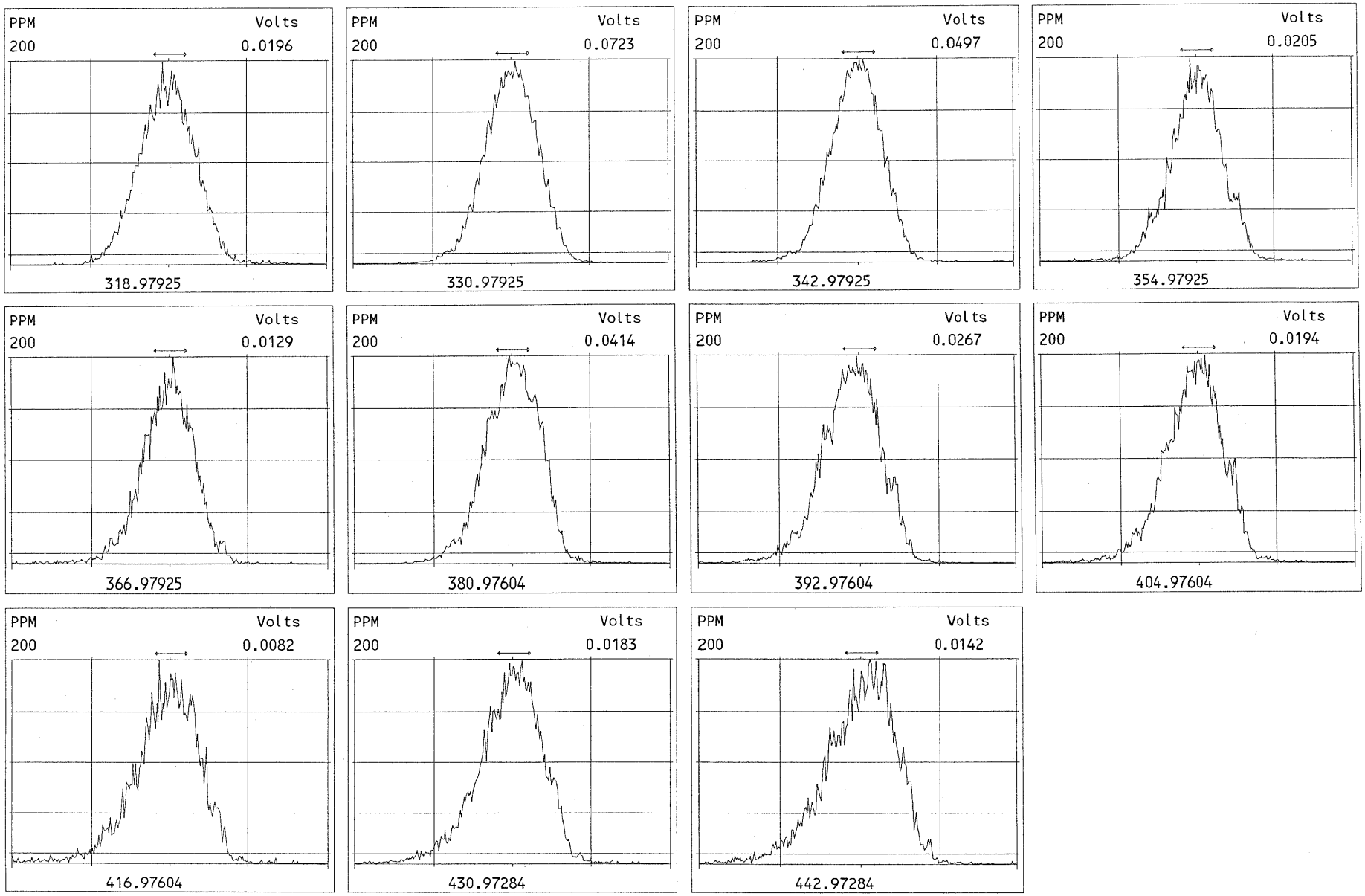




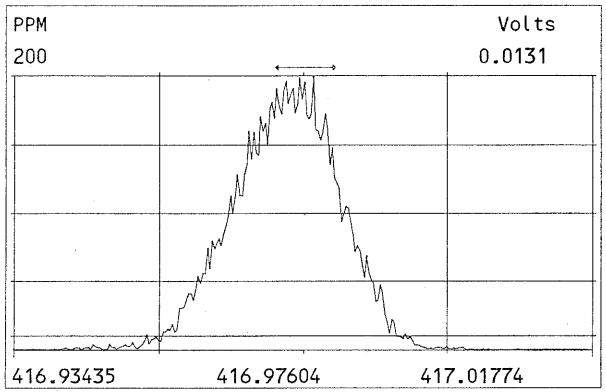


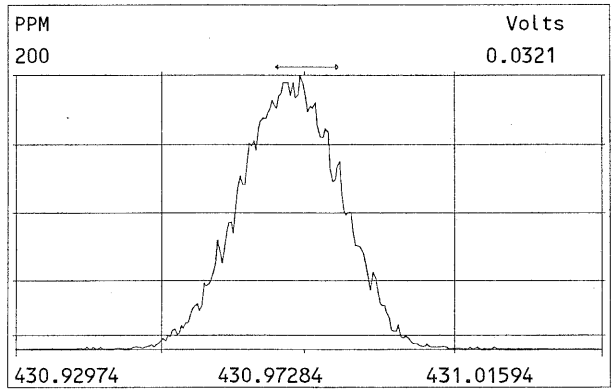


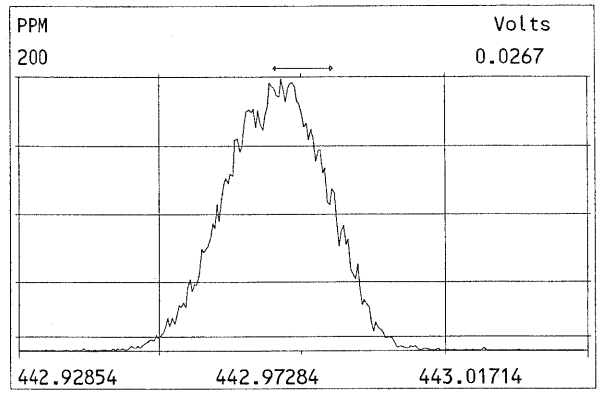
Peak Locate Examination: 5-APR-2018:08:22 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

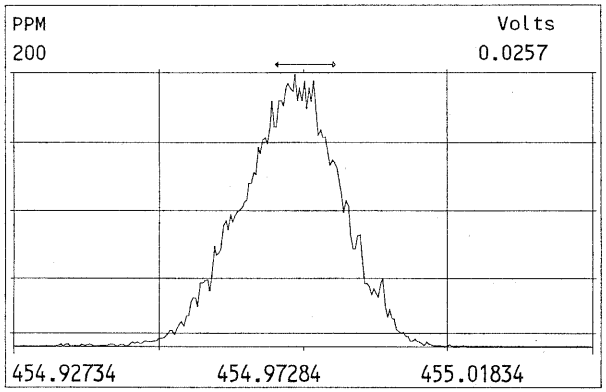


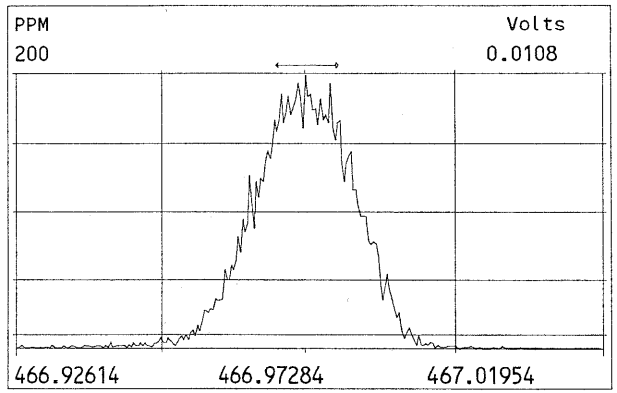
Peak Locate Examination: 5-APR-2018:08:23 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

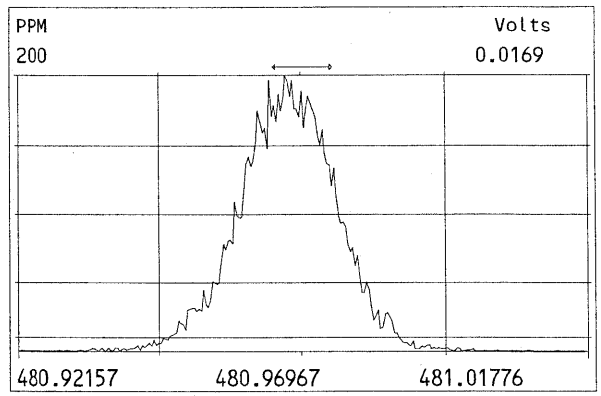


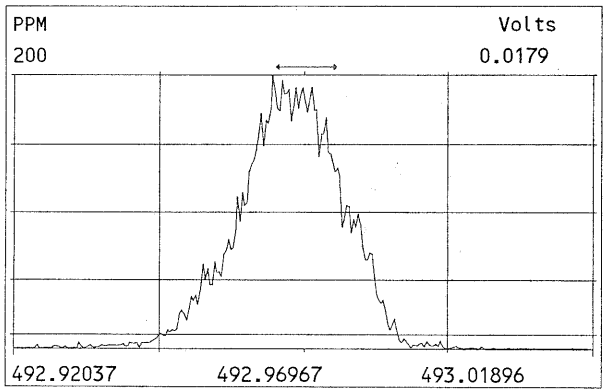


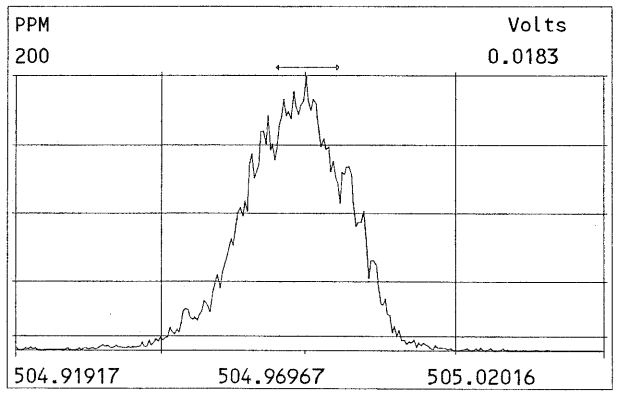


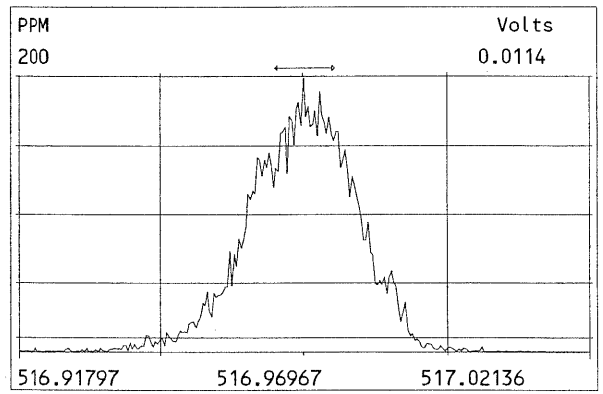












Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 23JUL18Z Sam:1 Analysis Date: 23-JUL-18 14:47:30

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.08	2.66-3.60	y	42.6	37.5 - 62.5
PCB-3	M/M+2	3.13	2.66-3.60	y	42.6	37.5 - 62.5
PCB-4	M/M+2	1.40	1.33-1.79	y	45.0	37.5 - 62.5
PCB-15	M/M+2	1.41	1.33-1.79	y	45.4	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	44.7	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	40.1	37.5 - 62.5
PCB-54	M/M+2	0.77	0.65-0.89	y	45.1	37.5 - 62.5
PCB-77	M/M+2	0.75	0.65-0.89	y	45.1	37.5 - 62.5
PCB-81	M/M+2	0.76	0.65-0.89	y	44.7	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	45.7	37.5 - 62.5
PCB-105	M+2/M+4	1.51	1.32-1.78	y	44.7	37.5 - 62.5
PCB-114	M+2/M+4	1.52	1.32-1.78	y	44.4	37.5 - 62.5
PCB-118	M+2/M+4	1.48	1.32-1.78	y	45.1	37.5 - 62.5
PCB-123	M+2/M+4	1.61	1.32-1.78	y	45.5	37.5 - 62.5
PCB-126	M+2/M+4	1.55	1.32-1.78	y	43.7	37.5 - 62.5
PCB-155	M+2/M+4	1.29	1.05-1.43	y	50.5	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	47.2	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	46.5	37.5 - 62.5
PCB-167	M+2/M+4	1.22	1.05-1.43	y	46.5	37.5 - 62.5
PCB-169	M+2/M+4	1.25	1.05-1.43	y	48.7	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	44.6	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	47.1	37.5 - 62.5
PCB-202	M+2/M+4	0.91	0.76-1.02	y	47.3	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	50.8	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	47.8	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	49.2	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	49.8	37.5 - 62.5

Analyst: [signature] Date: 7/24/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 23JUL18Z Sam:1 Analysis Date: 23-JUL-18 14:47:30

	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	3.04	2.66-3.60	y	116	50.0 - 145
13C-PCB-3	M/M+2	3.20	2.66-3.60	y	120	50.0 - 145
13C-PCB-4	M/M+2	1.55	1.33-1.79	y	93.7	50.0 - 145
13C-PCB-15	M/M+2	1.58	1.33-1.79	y	102	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	139	50.0 - 145
13C-PCB-37	M/M+2	1.04	0.88-1.20	y	91.1	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	103	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	81.9	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	81.5	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	130	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	78.7	50.0 - 145
13C-PCB-114	M+2/M+4	1.56	1.32-1.78	y	78.8	50.0 - 145
13C-PCB-118	M+2/M+4	1.59	1.32-1.78	y	82.0	50.0 - 145
13C-PCB-123	M+2/M+4	1.56	1.32-1.78	y	72.7	50.0 - 145
13C-PCB-126	M+2/M+4	1.59	1.32-1.78	y	82.5	50.0 - 145
13C-PCB-155	M+2/M+4	1.31	1.05-1.43	y	95.9	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	101	50.0 - 145
13C-PCB-157	M+2/M+4	1.26	1.05-1.43	y	99.4	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	101	50.0 - 145
13C-PCB-169	M+2/M+4	1.28	1.05-1.43	y	96.0	50.0 - 145
13C-PCB-188	M+2/M+4	1.05	0.89-1.21	y	116	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	104	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	120	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	97.0	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	109	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	97.3	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	87.4	65.0 - 135
13C-PCB-111	M+2/M+4	1.62	1.32-1.78	y	96.7	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	115	75.0 - 125

Analyst: [signature] Date: 7/24/18

FAL ID: ST072318Z1 Filename: 23JUL18Z Sam:1 Acquired: 23-JUL-18 14:47:30 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 R170805A 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	5.35e+07	3.08 y	14:36	1.11	42.6		2.50	-	-	*	-
13C-PCB-1	1.14e+08	3.04 y	14:35	1.07	116		2.50				116
PCB-3	5.47e+07	3.13 y	17:03	1.13	42.6		2.50	-	-	*	-
13C-PCB-3	1.14e+08	3.20 y	17:02	1.03	120		2.50				120
PCB-4	2.99e+07	1.40 y	18:17	1.14	45.0		2.50	-	-	*	-
13C-PCB-4	5.81e+07	1.55 y	18:17	0.67	93.7		2.50				93.7
PCB-15	4.87e+07	1.41 y	23:52	1.10	45.4		2.50	-	-	*	-
13C-PCB-15	9.72e+07	1.58 y	23:50	1.03	102		2.50				102
PCB-19	3.30e+07	1.06 y	22:11	1.23	44.7		2.50	-	-	*	-
13C-PCB-19	6.00e+07	1.09 y	22:10	0.47	139		2.50				139
13C-PCB-9	9.19e+07	1.56 y	19:57	-	393		2.50				
PCB-37	4.05e+07	1.05 y	30:31	1.26	40.1		2.50	-	-	*	-
13C-PCB-37	8.03e+07	1.04 y	30:31	1.40	91.1		2.50				91.1
PCB-54	4.04e+07	0.77 y	25:44	1.16	45.1		2.50	-	-	*	-
13C-PCB-54	7.74e+07	0.79 y	25:43	1.19	103		2.50				103
PCB-104	3.66e+07	1.59 y	30:11	1.22	45.7		2.50	-	-	*	-
13C-PCB-104	6.53e+07	1.60 y	30:09	0.80	130		2.50				130
13C-PCB-28	8.43e+07	1.04 y	26:48	1.53	87.4		2.50				87.4
13C-PCB-52	6.31e+07	0.77 y	29:05	-	487		2.50				
PCB-81	3.65e+07	0.76 y	36:18	1.17	44.7		2.50	-	-	*	-
13C-PCB-81	6.99e+07	0.80 y	36:17	1.37	81.5		2.50				81.5
PCB-77	3.60e+07	0.75 y	36:52	1.11	45.1		2.50	-	-	*	-
13C-PCB-77	7.20e+07	0.81 y	36:51	1.41	81.9		2.50				81.9
PCB-155	3.53e+07	1.29 y	34:21	1.14	50.5		2.50	-	-	*	-
13C-PCB-155	6.12e+07	1.31 y	34:19	1.02	95.9		2.50				95.9
13C-PCB-111	7.64e+07	1.62 y	36:26	1.26	96.7		2.50				96.7
13C-PCB-101	6.25e+07	1.60 y	34:47	-	554		2.50				
PCB-123	2.90e+07	1.61 y	38:29	1.12	45.5		2.50	-	-	*	-
13C-PCB-123	5.67e+07	1.56 y	38:28	1.36	72.7		2.50				72.7
PCB-118	3.50e+07	1.48 y	38:41	1.16	45.1		2.50	-	-	*	-
13C-PCB-118	6.71e+07	1.59 y	38:39	1.42	82.0		2.50				82.0
PCB-114	3.11e+07	1.52 y	39:17	1.13	44.4		2.50	-	-	*	-
13C-PCB-114	6.24e+07	1.56 y	39:15	1.38	78.8		2.50				78.8
PCB-105	3.09e+07	1.51 y	40:06	1.11	44.7		2.50	-	-	*	-
13C-PCB-105	6.23e+07	1.59 y	40:05	1.38	78.7		2.50				78.7
PCB-126	2.96e+07	1.55 y	42:15	1.11	43.7		2.50	-	-	*	-
13C-PCB-126	6.09e+07	1.59 y	42:13	1.29	82.5		2.50				82.5
PCB-167	3.49e+07	1.22 y	43:35	1.05	46.5		2.50	-	-	*	-
13C-PCB-167	7.16e+07	1.26 y	43:35	1.23	101		2.50				101
PCB-156	3.51e+07	1.27 y	44:50	1.08	47.2		2.50	-	-	*	-
13C-PCB-156	6.91e+07	1.28 y	44:48	1.19	101		2.50				101
PCB-157	3.47e+07	1.24 y	45:04	1.06	46.5		2.50	-	-	*	-
13C-PCB-157	7.07e+07	1.26 y	45:03	1.24	99.4		2.50				99.4
PCB-169	3.28e+07	1.25 y	46:56	1.06	48.7		2.50	-	-	*	-
13C-PCB-169	6.33e+07	1.28 y	46:55	1.15	96.0		2.50				96.0
PCB-188	3.82e+07	1.06 y	39:50	1.14	44.6		2.50	-	-	*	-
13C-PCB-188	7.49e+07	1.05 y	39:50	1.13	116		2.50				116
PCB-189	2.97e+07	1.05 y	48:33	1.12	47.1		2.50	-	-	*	-
13C-PCB-189	5.65e+07	1.06 y	48:33	0.94	104		2.50				104
PCB-202	2.74e+07	0.91 y	44:58	1.09	47.3		2.50	-	-	*	-
13C-PCB-202	5.32e+07	0.91 y	44:56	0.77	120		2.50				120
13C-PCB-178	5.02e+07	1.07 y	42:28	0.76	115		2.50				115
13C-PCB-138	5.74e+07	1.28 y	41:42	-	525		2.50				

FAL ID: ST072318Z1 Filename: 23JUL18Z Sam:1 Acquired: 23-JUL-18 14:47:30 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 R170805A ConCal: NA EndCal: NA
Results: GC Column: DB1MS Amount: 1.000

PCB-205	2.56e+07	0.89 y	50:12	1.04	50.8	2.50	-	-	*	-
13C-PCB-205	4.83e+07	0.90 y	50:11	1.32	97.0	2.50				97.0
PCB-208	2.48e+07	1.36 y	49:15	0.96	49.2	2.50	-	-	*	-
13C-PCB-208	5.24e+07	0.81 y	49:15	1.33	104	2.50				104
PCB-206	1.79e+07	1.35 y	51:24	0.97	47.8	2.50	-	-	*	-
13C-PCB-206	3.85e+07	0.79 y	51:23	0.94	109	2.50				109
PCB-209	2.24e+07	1.18 y	52:34	1.17	49.8	2.50	-	-	*	-
13C-PCB-209	3.83e+07	1.20 y	52:34	1.04	97.3	2.50				97.3
13C-PCB-194	3.77e+07	0.91 y	49:56	-	381	2.50				

Analyst: _____ Date: 7/24/18

Frontier Analytical Laboratory - Acquisition Log

Run Name:23JUL18Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

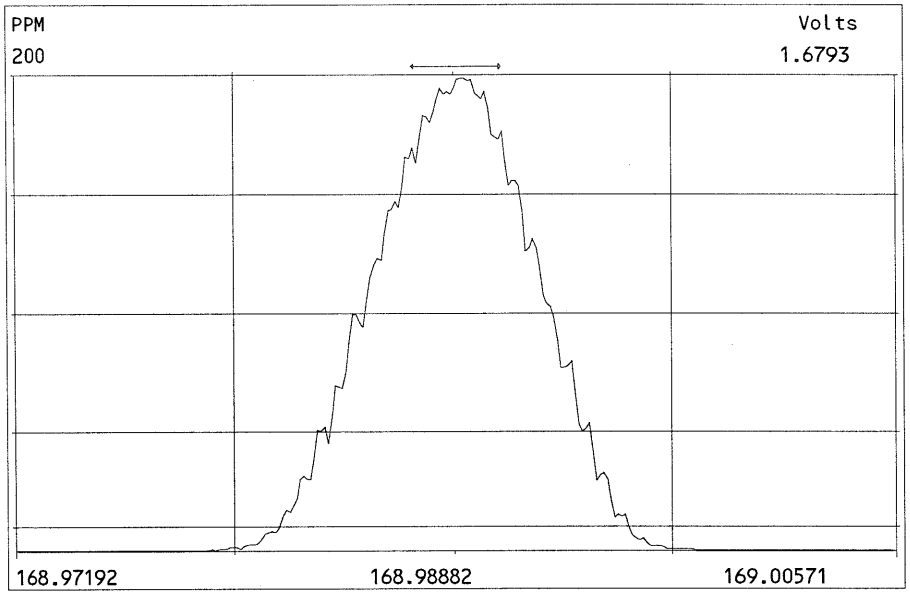
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
23JUL18Z	1	ST072318Z1	1668 CS3 170805A	23-JUL-18 14:47:30	ST072318Z1	ST072318Z2	DV
23JUL18Z	2	SS072318Z1	Daily 209 171222A	23-JUL-18 15:45:50	ST072318Z1	ST072318Z2	DV
23JUL18Z	3	04575-001-0001-OPR	OPR	23-JUL-18 16:44:31	ST072318Z1	ST072318Z2	DV
23JUL18Z	4	04575-001-0001-MB	Method Blank	23-JUL-18 17:42:53	ST072318Z1	ST072318Z2	DV
23JUL18Z	5	11592-003-0001-SA	KMART Core	23-JUL-18 18:41:18	ST072318Z1	ST072318Z2	DV
23JUL18Z	6	11614-015-0001-SA	Charmin Ultra Strong - WalMa¶	23-JUL-18 19:40:05	ST072318Z1	ST072318Z2	DV
23JUL18Z	7	11614-019-0001-SA	Charmin Essential Strong - K¶	23-JUL-18 20:38:27	ST072318Z1	ST072318Z2	DV
23JUL18Z	8	11614-021-0001-SA	Charmin Essential Soft - KMa¶	23-JUL-18 21:36:48	ST072318Z1	ST072318Z2	DV
23JUL18Z	9	11614-026-0001-SA	Charmin Ultra Gentle - Targe¶	23-JUL-18 22:35:35	ST072318Z1	ST072318Z2	DV
23JUL18Z	10	11704-007-0001-SA	LDW-Y1-SU-S010-LCB	23-JUL-18 23:33:57	ST072318Z1	ST072318Z2	DV
23JUL18Z	11	11704-008-0001-SA	LDW-Y1-IN-ENR+AC-CA-S010	24-JUL-18 00:32:18	ST072318Z1	ST072318Z2	DV
23JUL18Z	12	11704-009-0001-SA	LDW-Y1-IN-ENR+AC-CB-S010	24-JUL-18 01:31:05	ST072318Z1	ST072318Z2	DV
23JUL18Z	13	11704-010-0001-SA	LDW-Y1-IN-ENR+AC-CC-S010	24-JUL-18 02:29:26	ST072318Z1	ST072318Z2	DV
23JUL18Z	14	SB072318Z1	Solvent Blank	24-JUL-18 03:27:47	ST072318Z1	ST072318Z2	DV
23JUL18Z	15	ST072318Z2	1668 CS3 170805A	24-JUL-18 04:26:09	ST072318Z1	ST072318Z2	DV

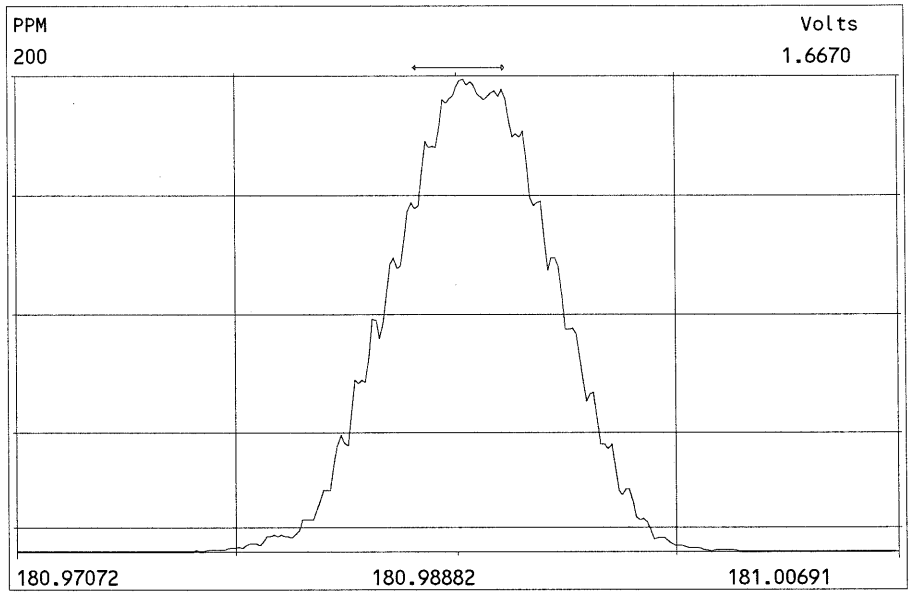
7/24/18

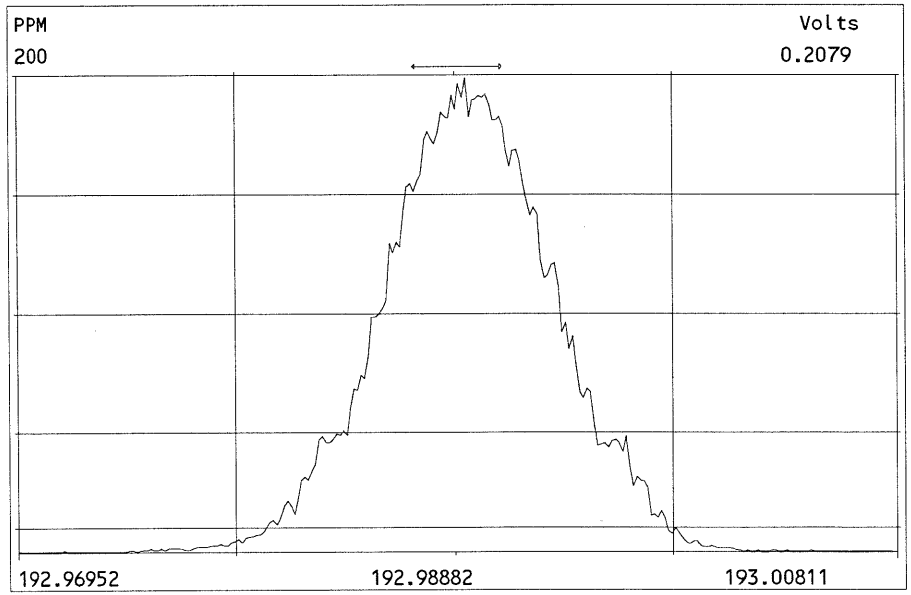
Data Backed Up:_____

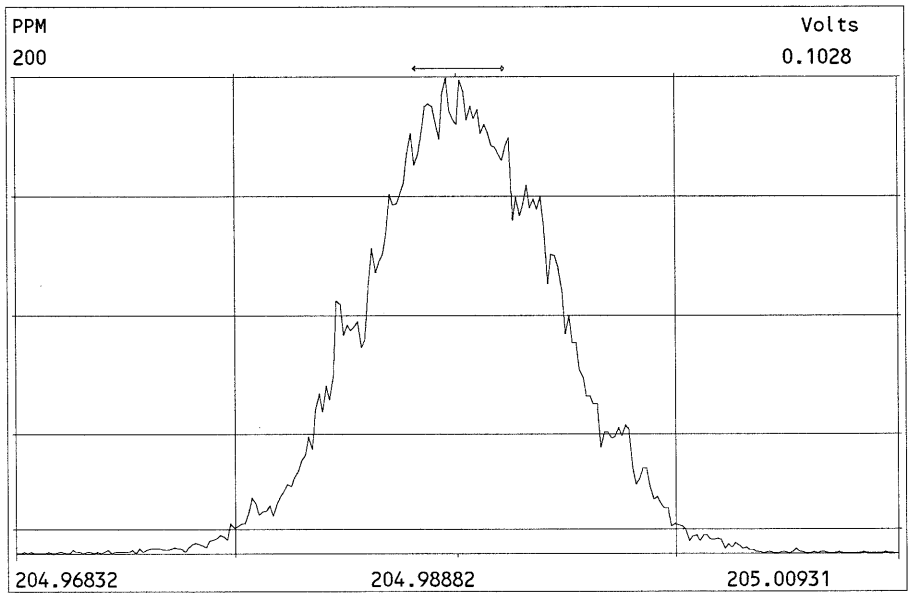
Date:_____

Peak Locate Examination:23-JUL-2018:14:42 File:23JUL18Z
Experiment:1668PCB Function:1 Reference:PFK

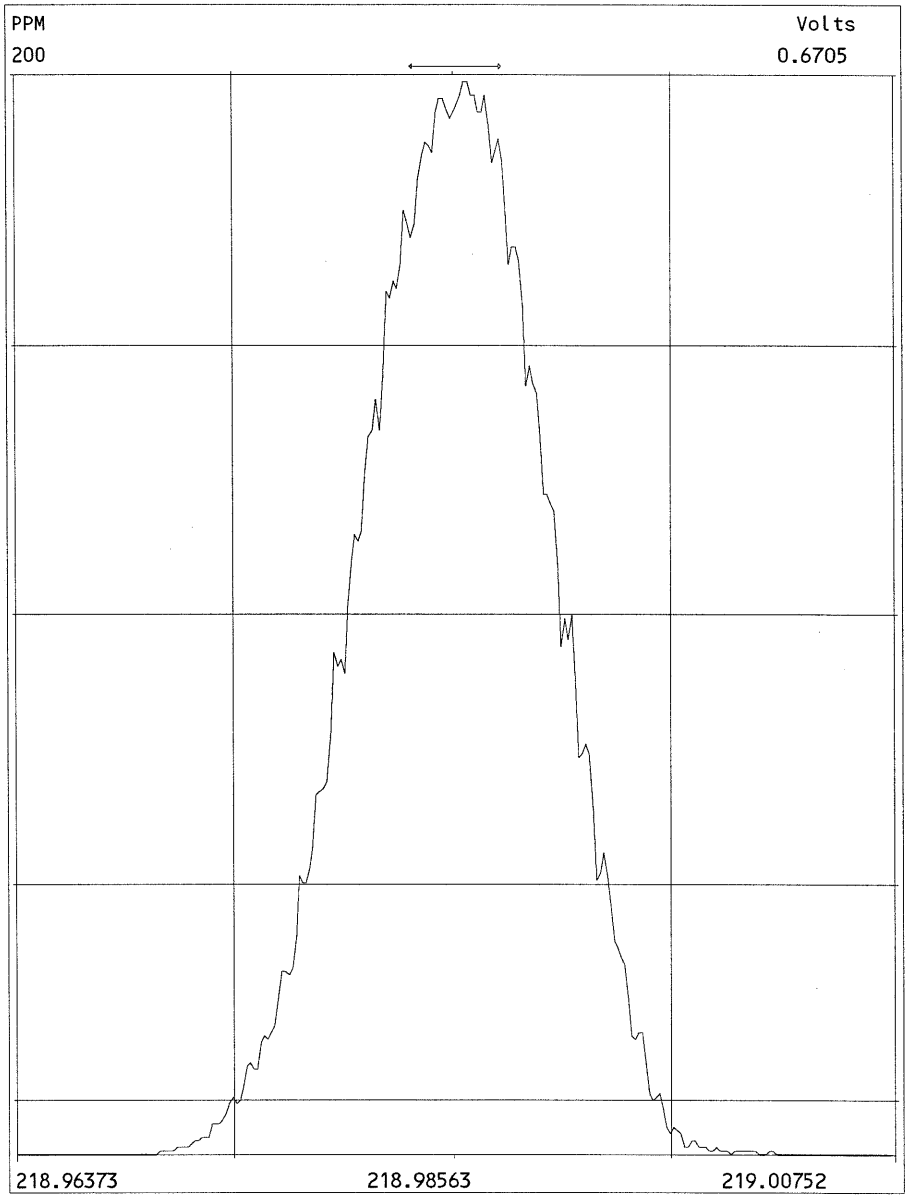


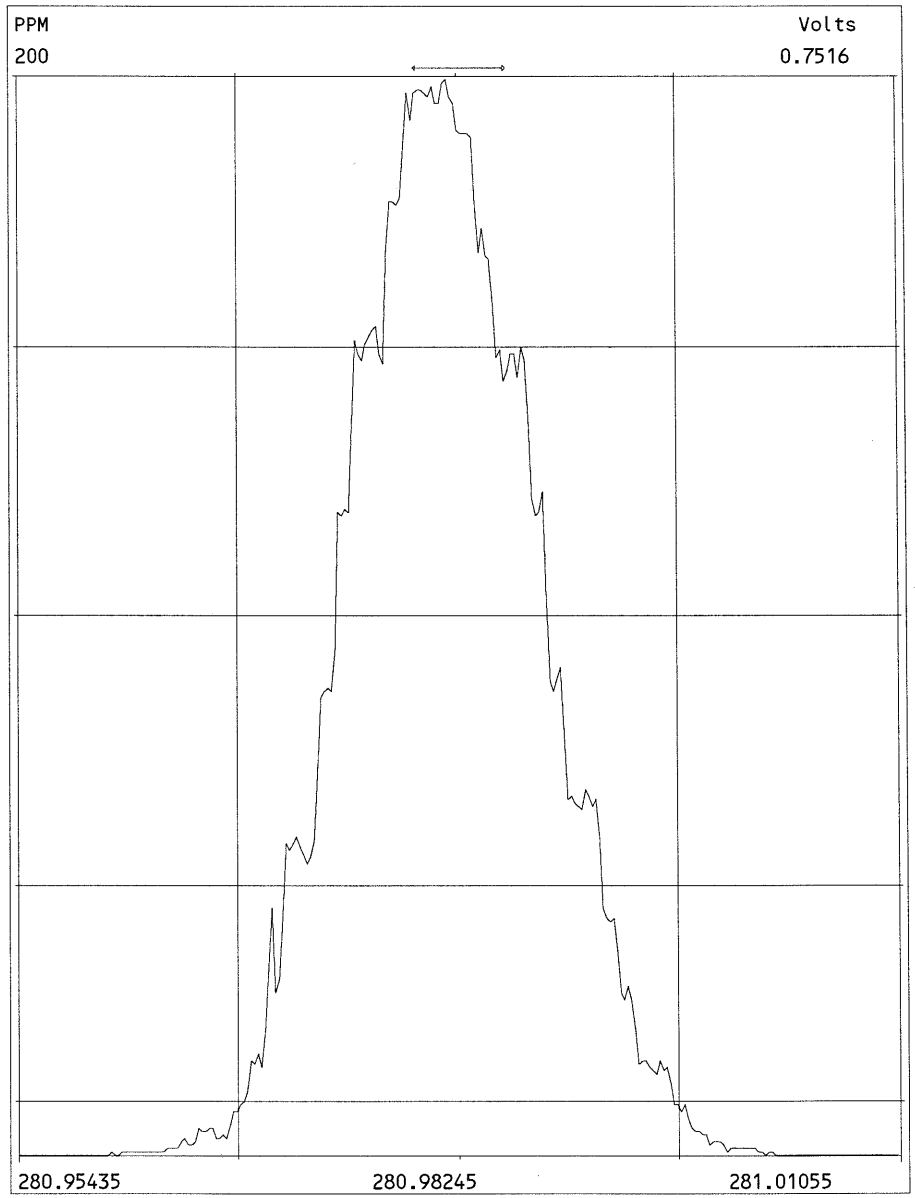




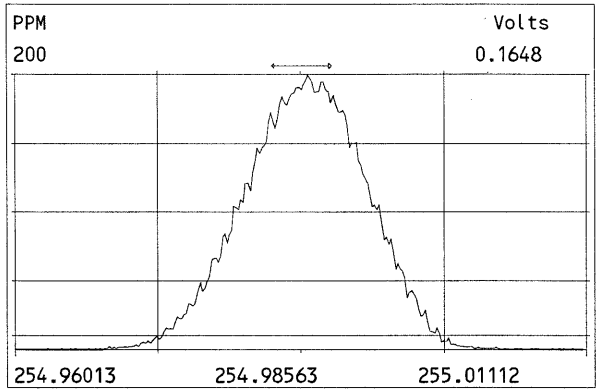


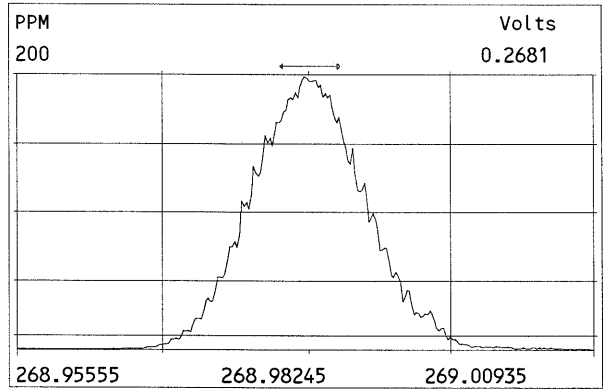
Peak Locate Examination:23-JUL-2018:14:44 File:23JUL18Z
Experiment:1668PCB Function:2 Reference:PFK

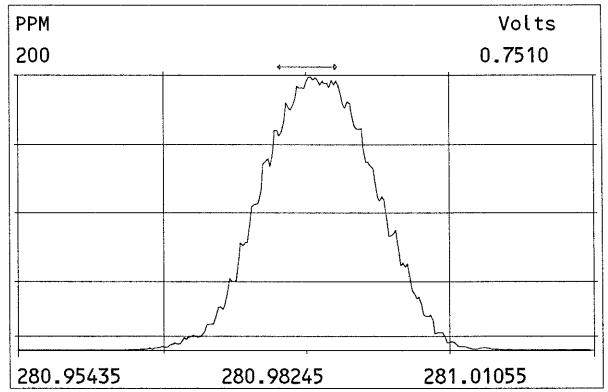


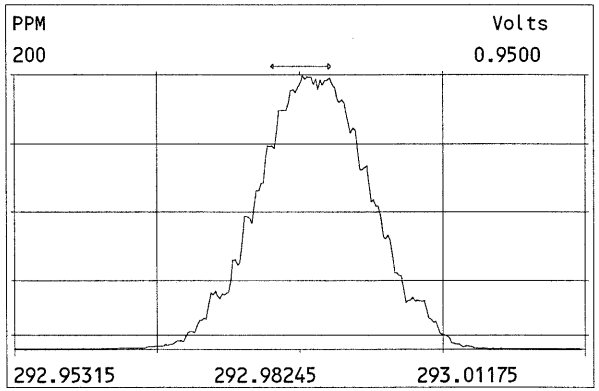


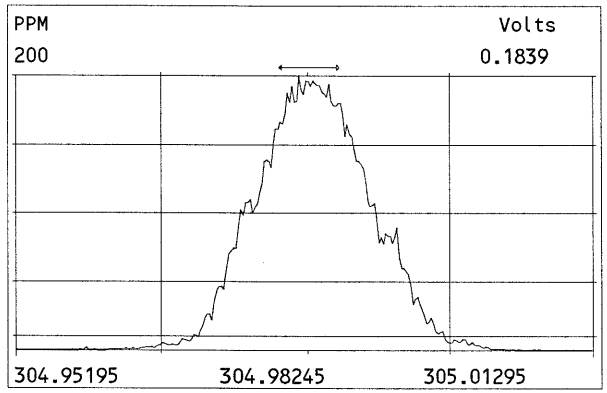
Peak Locate Examination:23-JUL-2018:14:44 File:23JUL18Z
Experiment:1668PCB Function:3 Reference:PFK

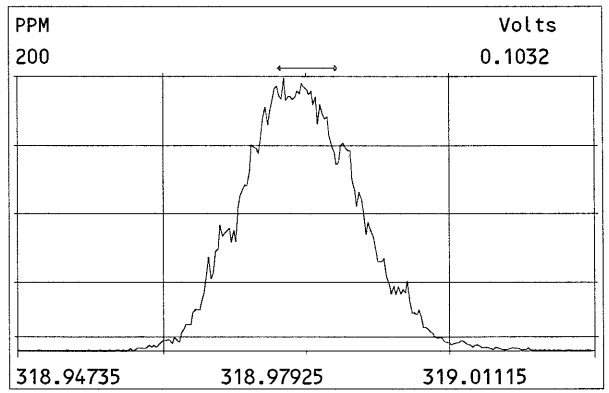


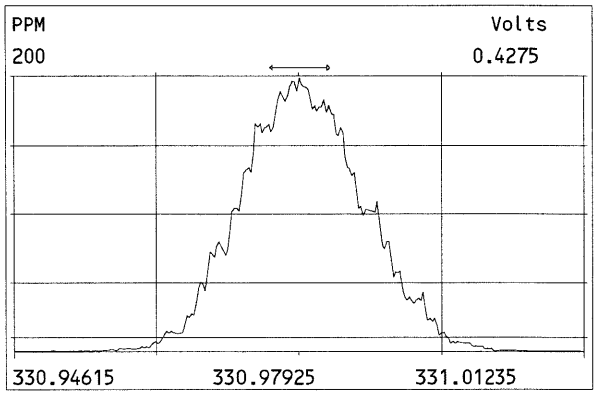


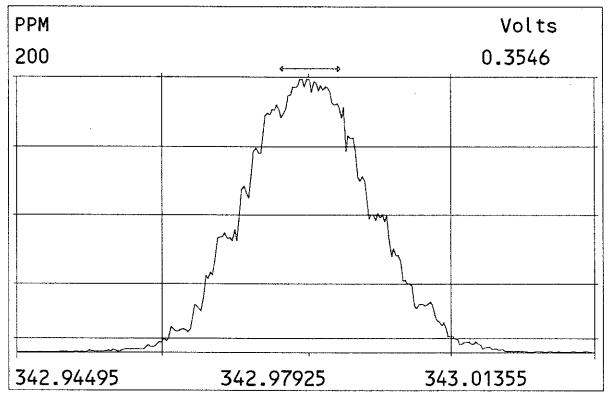




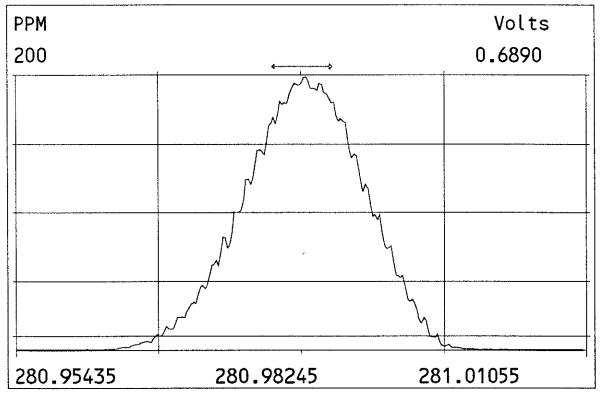


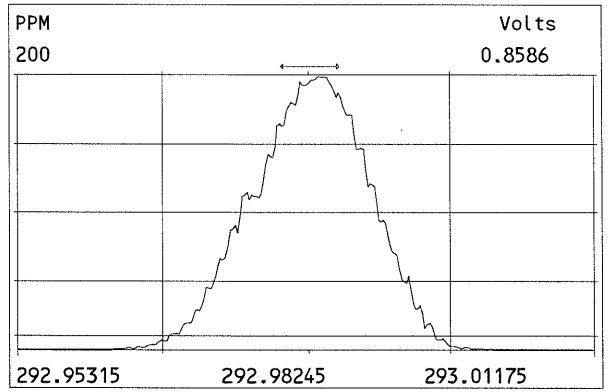


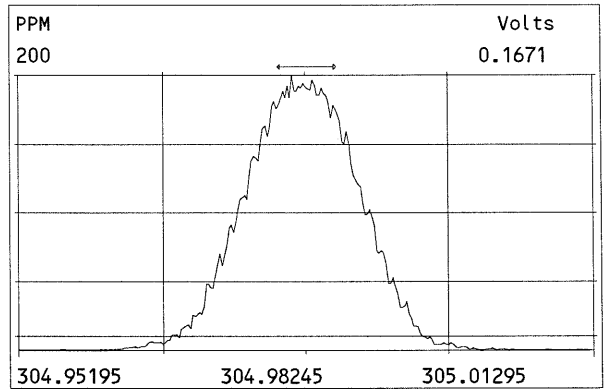


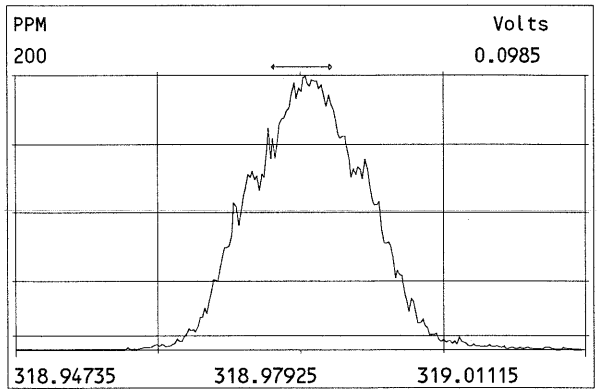


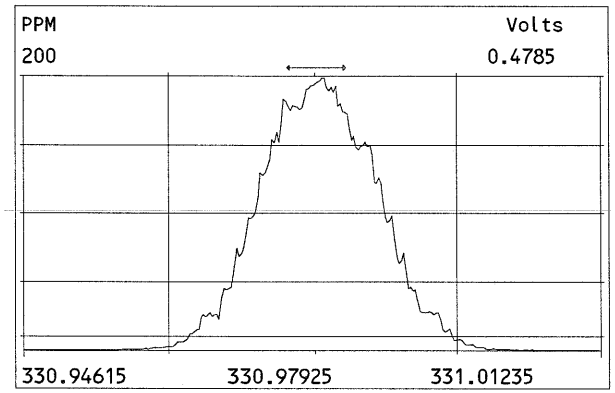
Peak Locate Examination:23-JUL-2018:14:45 File:23JUL18Z
Experiment:1668PCB Function:4 Reference:PFK

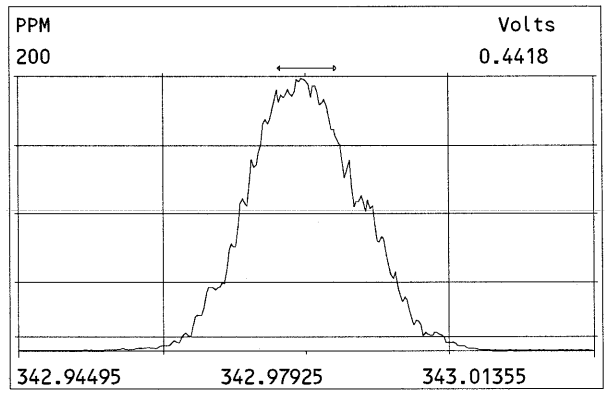


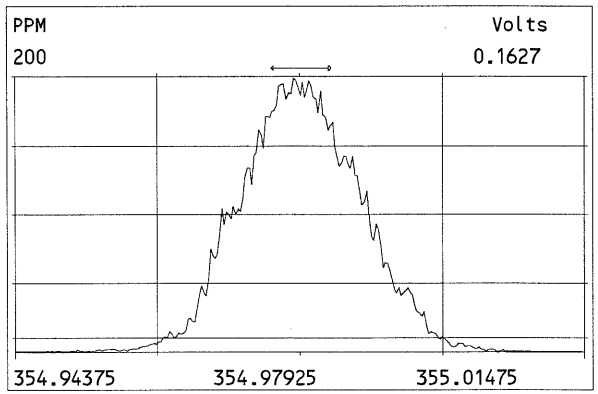


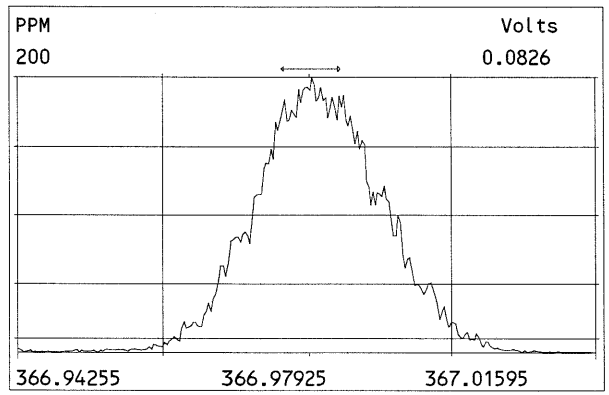


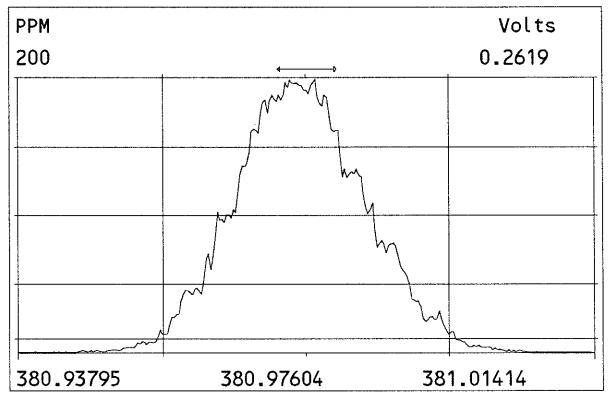




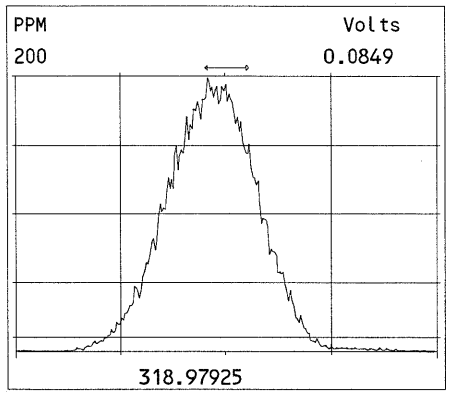


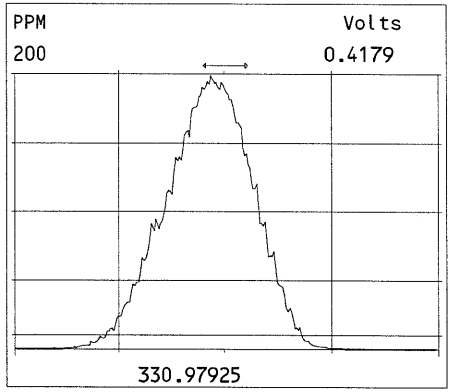


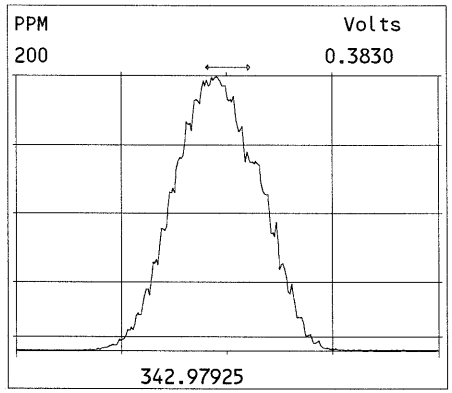


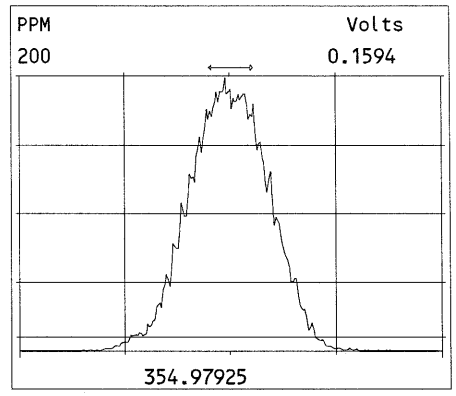


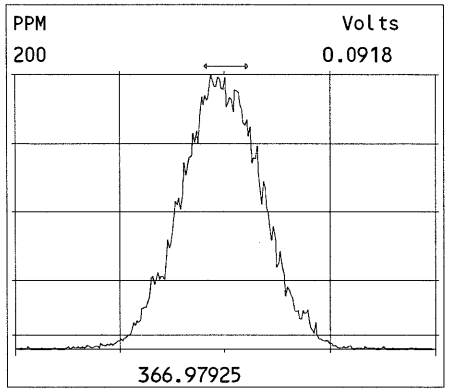
Peak Locate Examination:23-JUL-2018:14:46 File:23JUL18Z
Experiment:1668PCB Function:5 Reference:PFK

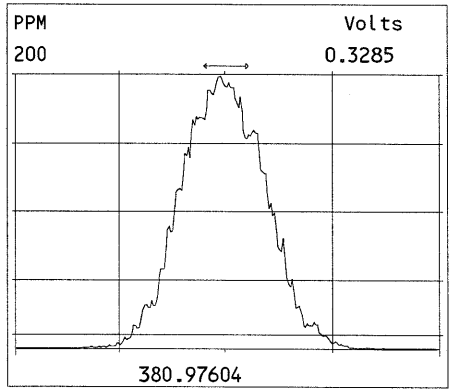


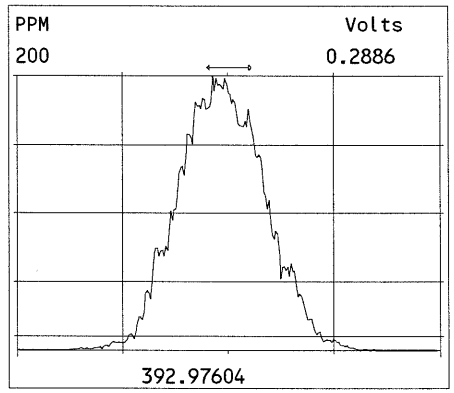


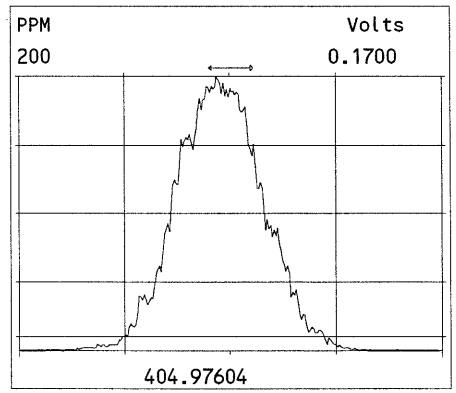


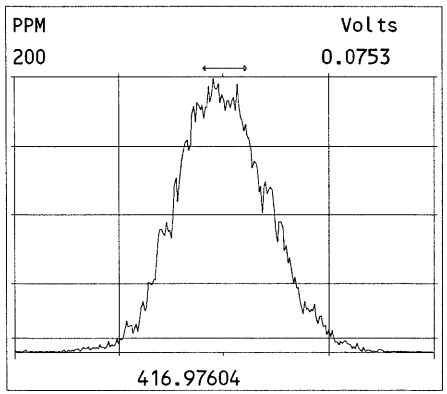


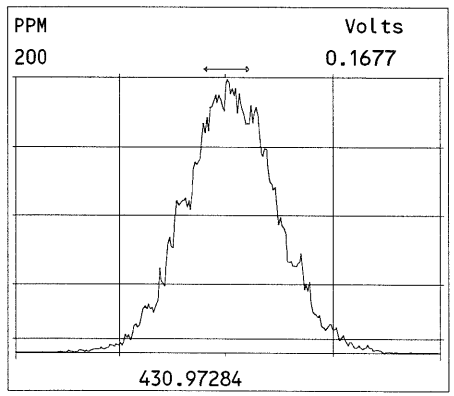


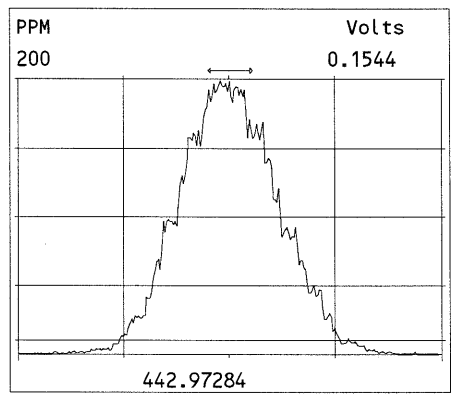




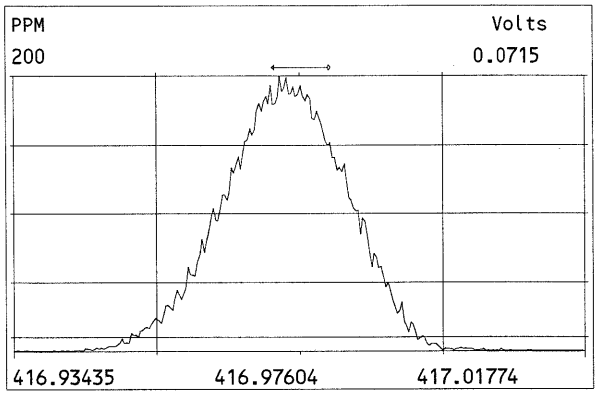


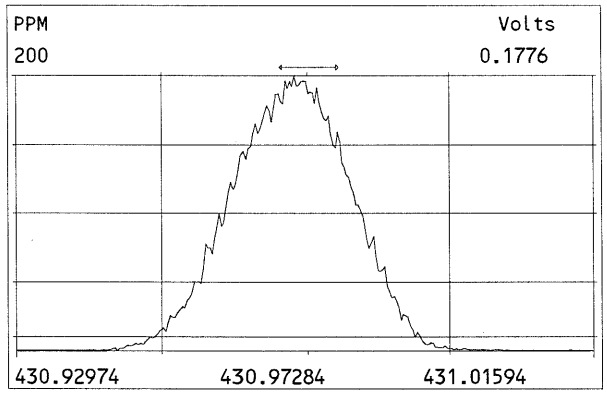


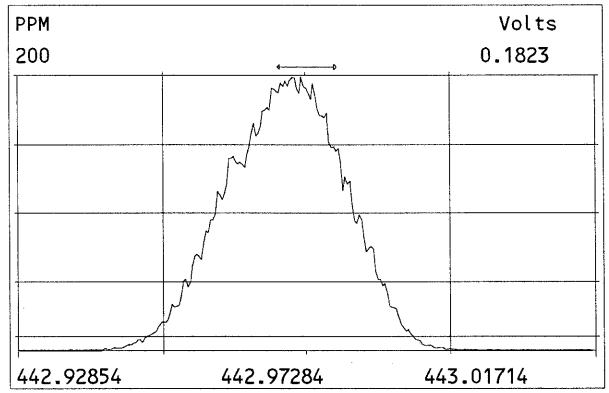


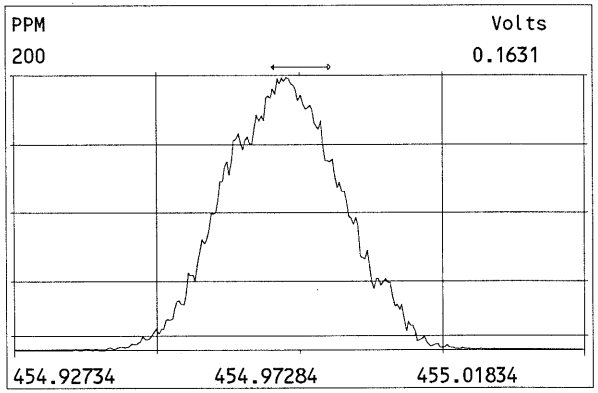


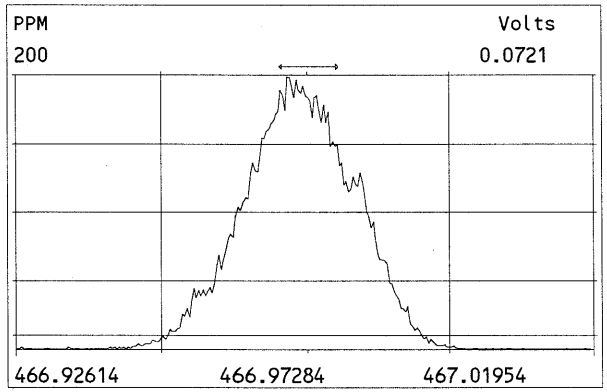
Peak Locate Examination:23-JUL-2018:14:47 File:23JUL18Z
Experiment:1668PCB Function:6 Reference:PFK

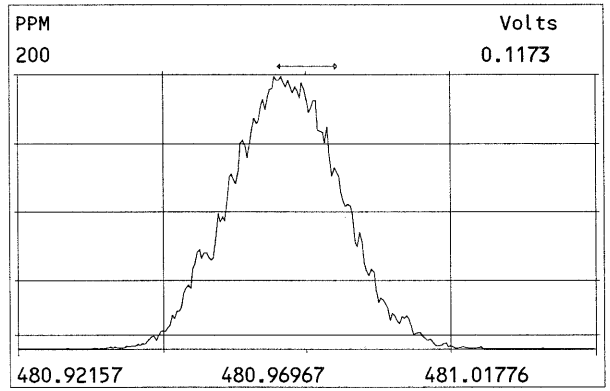


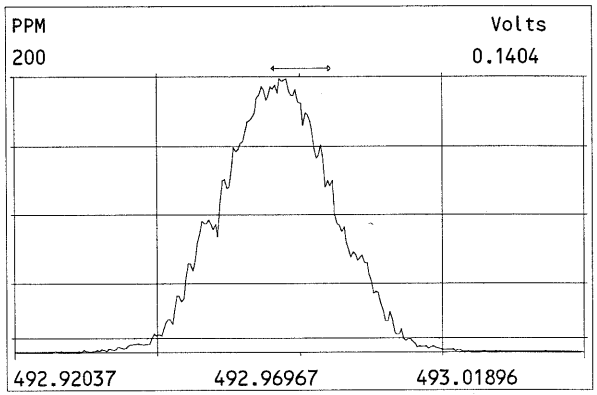


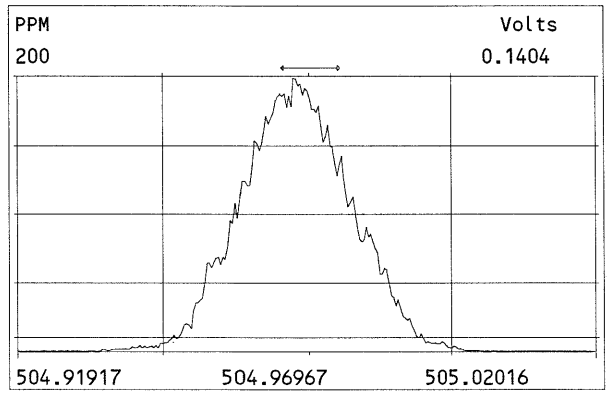


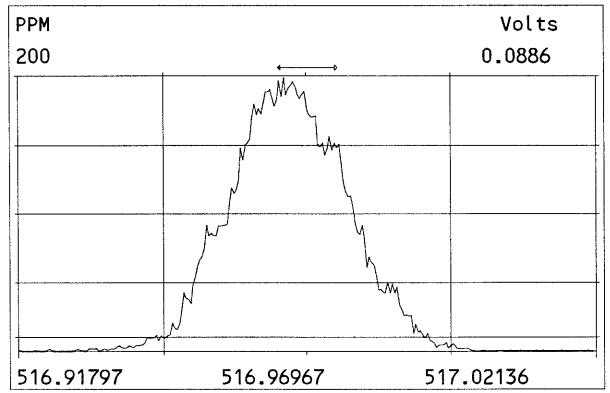




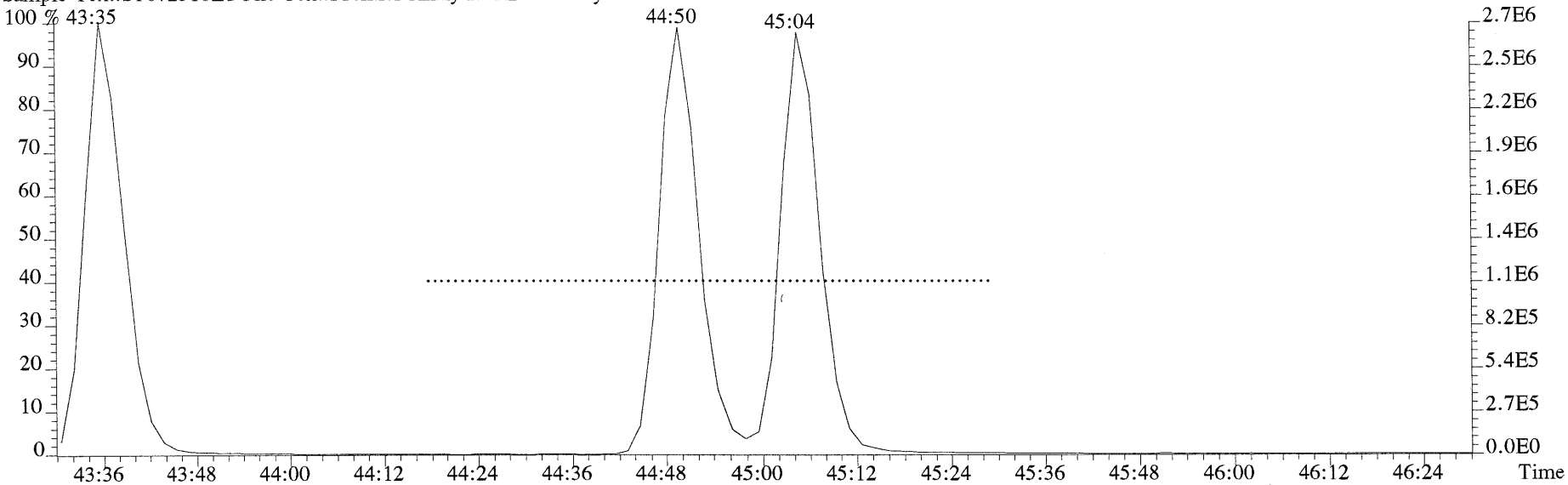




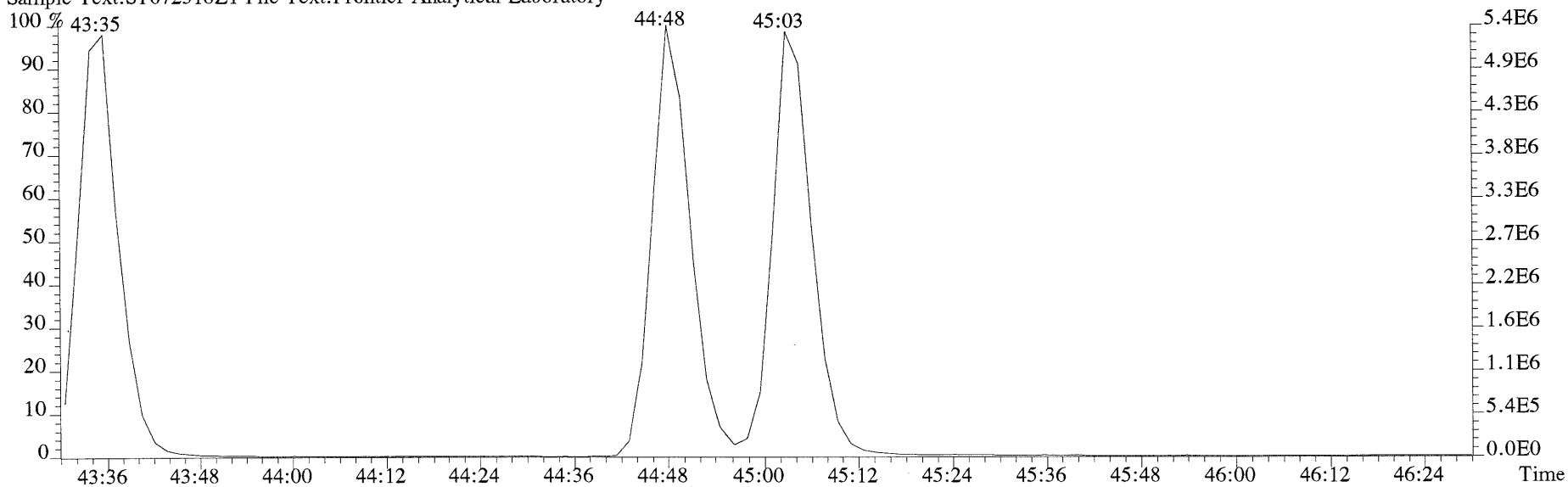




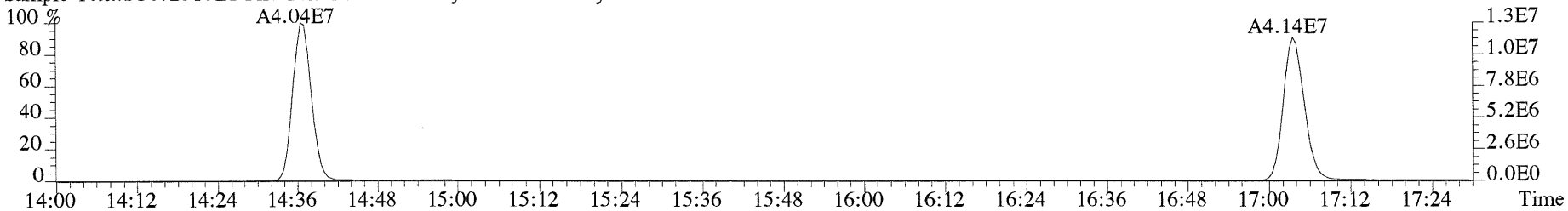
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



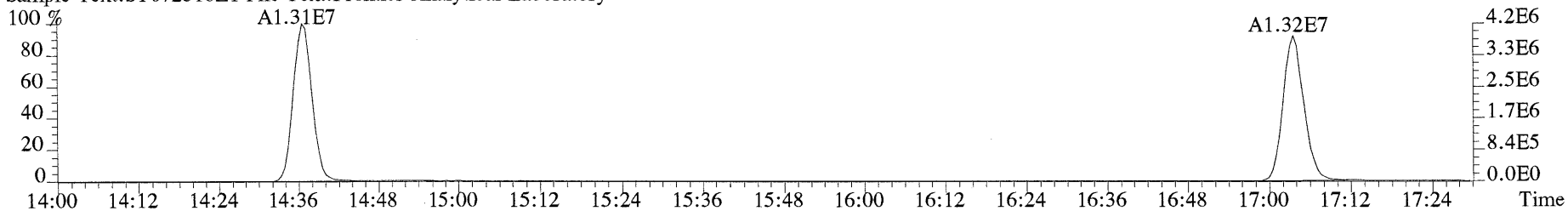
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



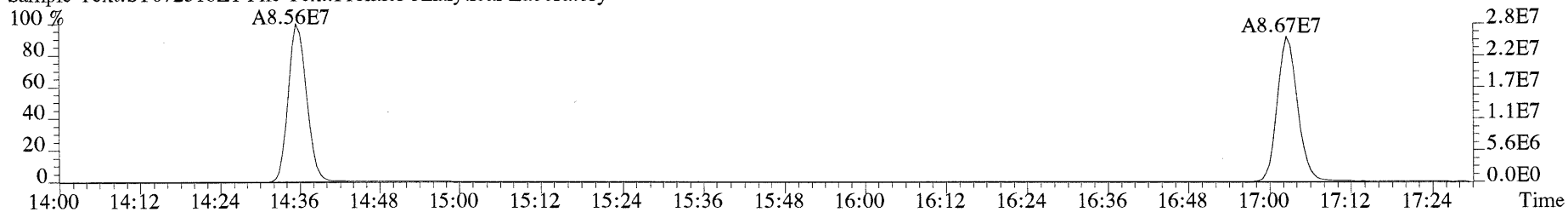
File:23JUL18Z #1-783 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



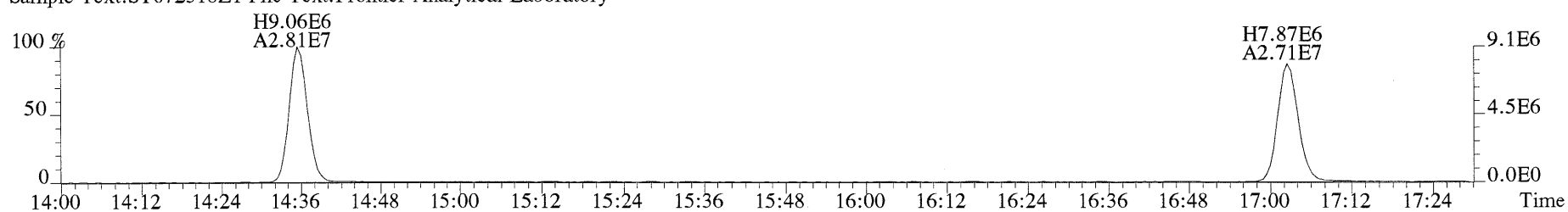
File:23JUL18Z #1-783 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



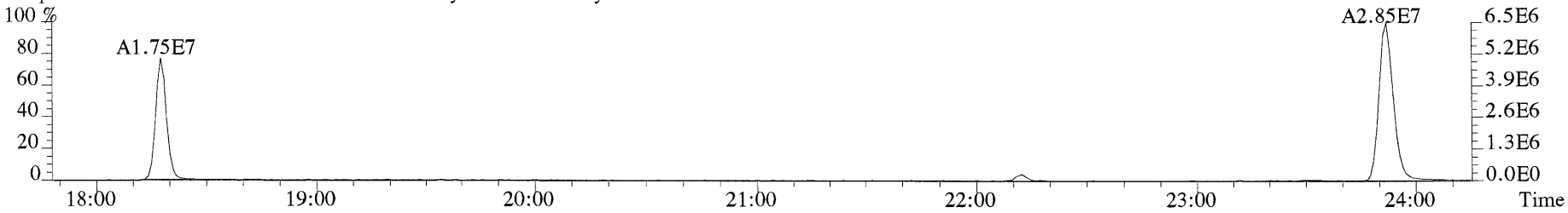
File:23JUL18Z #1-783 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



File:23JUL18Z #1-783 Acq:23-JUL-2018 14:47:30 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:ST072318Z1 File Text:Frontier Analytical Laboratory



File:23JUL18Z #1-520 Acq:23-JUL-2018 14:47:30 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:ST072318Z1 File Text:Frontier Analytical Laboratory



File:23JUL18Z #1-520 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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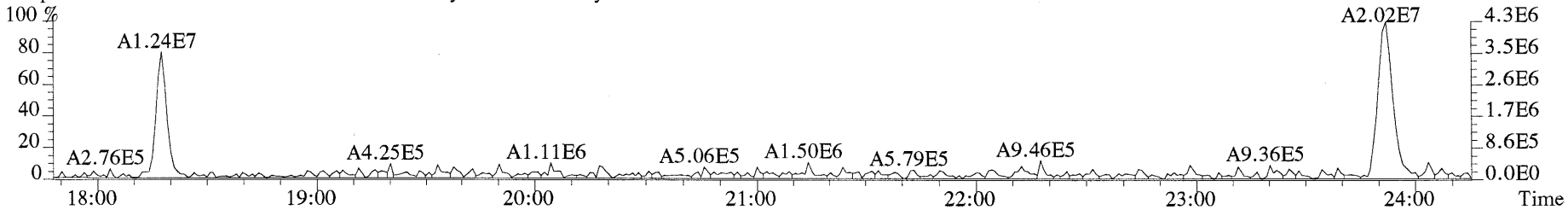
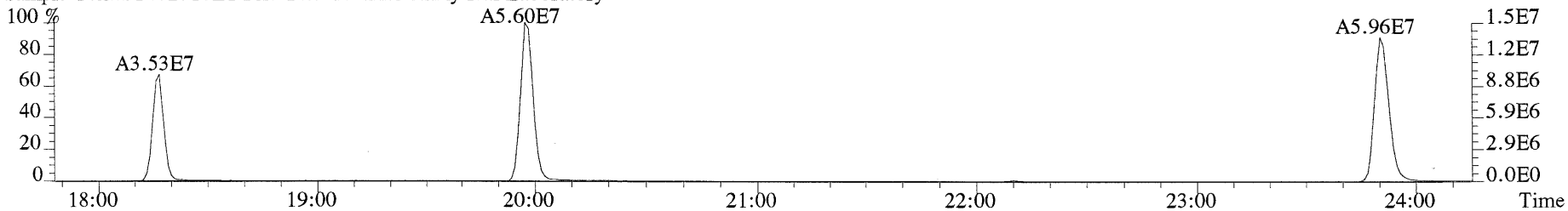
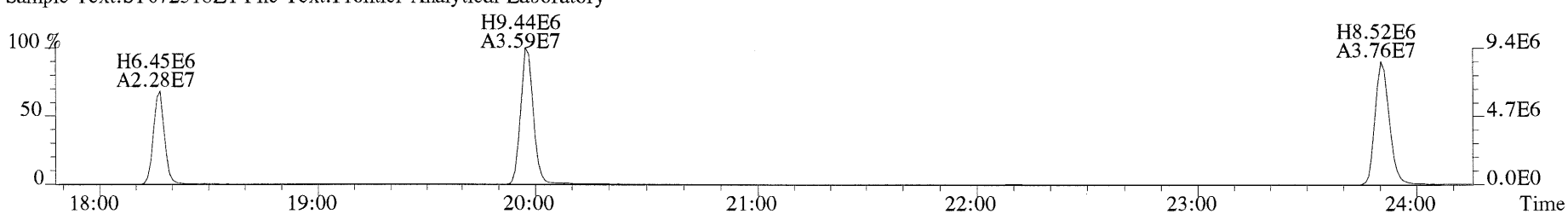


File:23JUL18Z #1-520 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



File:23JUL18Z #1-520 Acq:23-JUL-2018 14:47:30 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:ST072318Z1 File Text:Frontier Analytical Laboratory



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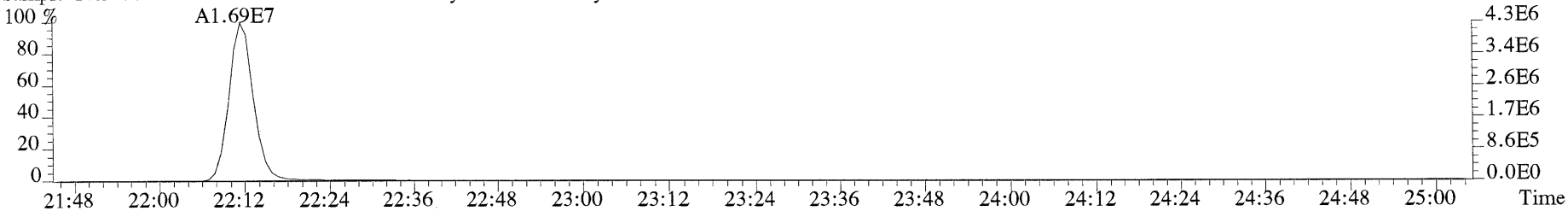
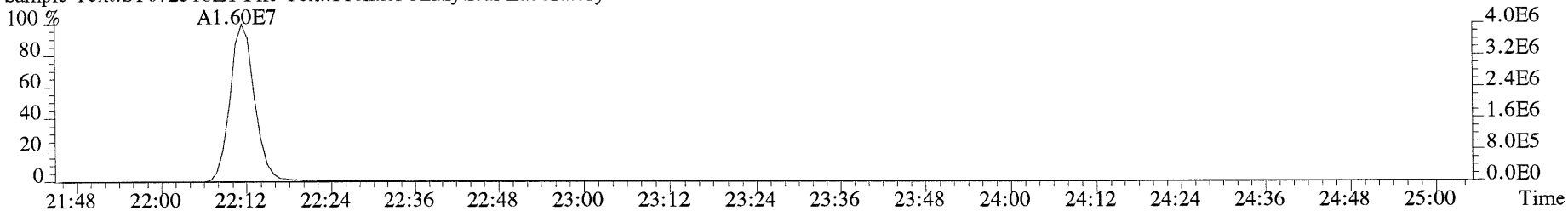
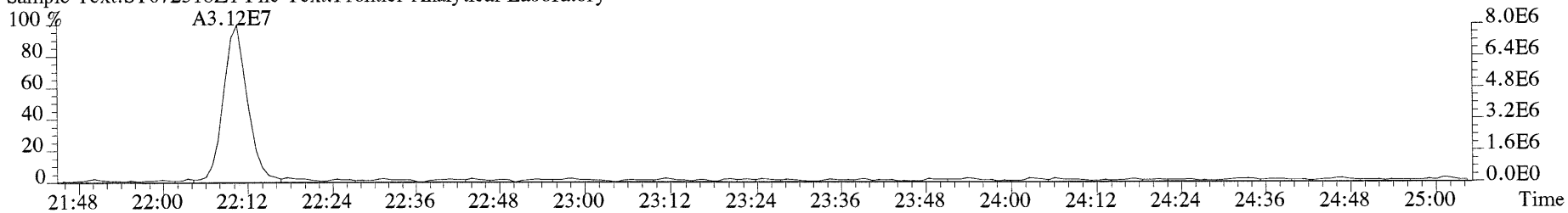
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



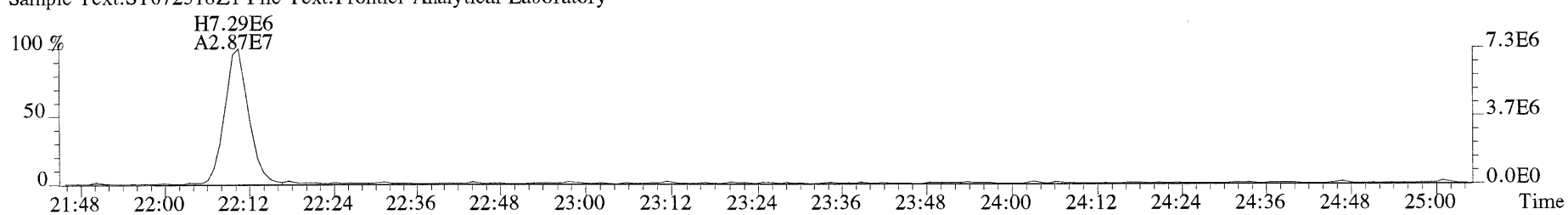
File:23JUL18Z #1-520 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



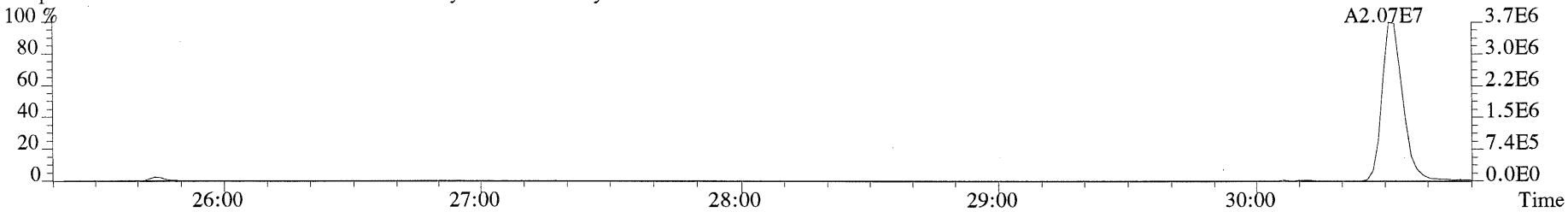
File:23JUL18Z #1-520 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



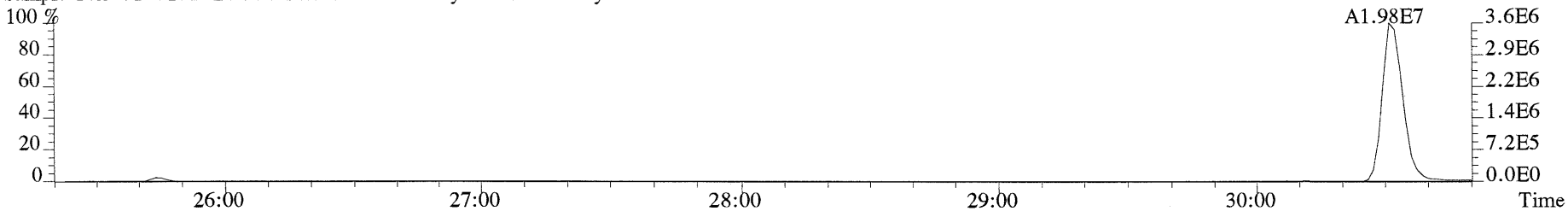
File:23JUL18Z #1-520 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



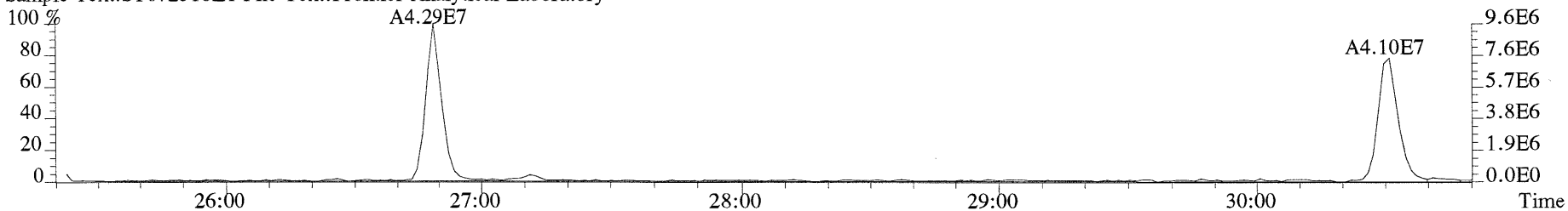
File:23JUL18Z #1-401 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



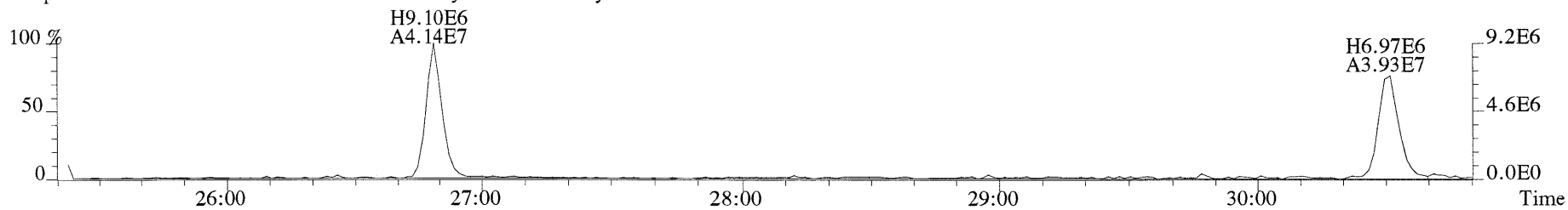
File:23JUL18Z #1-401 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



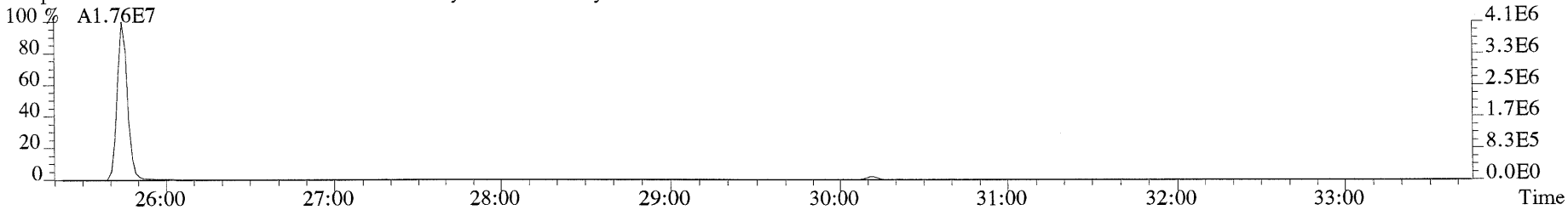
File:23JUL18Z #1-401 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



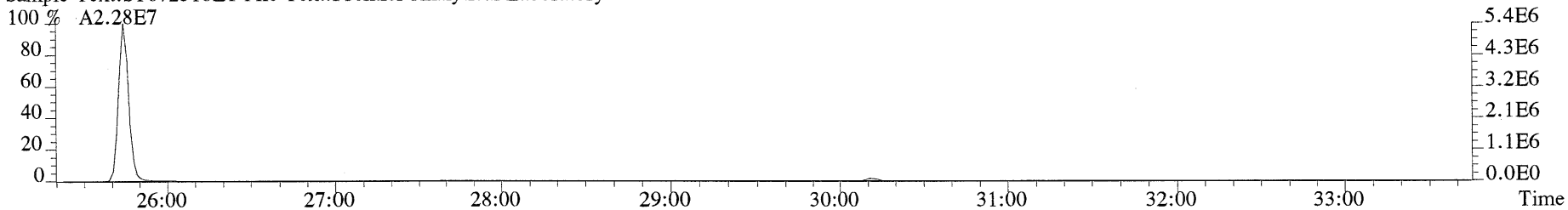
File:23JUL18Z #1-401 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



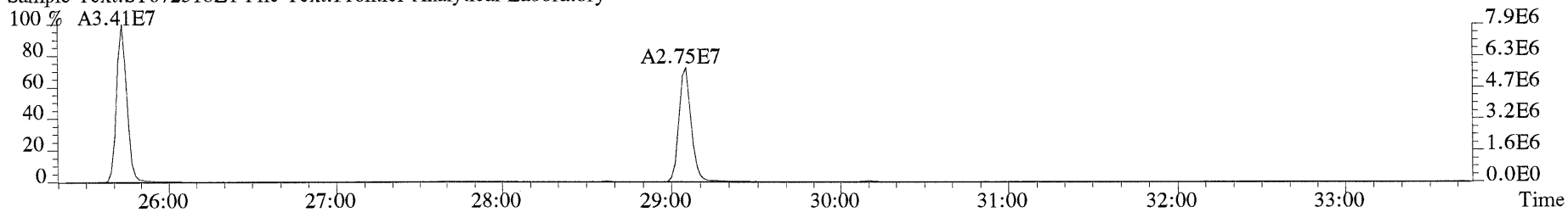
File:23JUL18Z #1-401 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



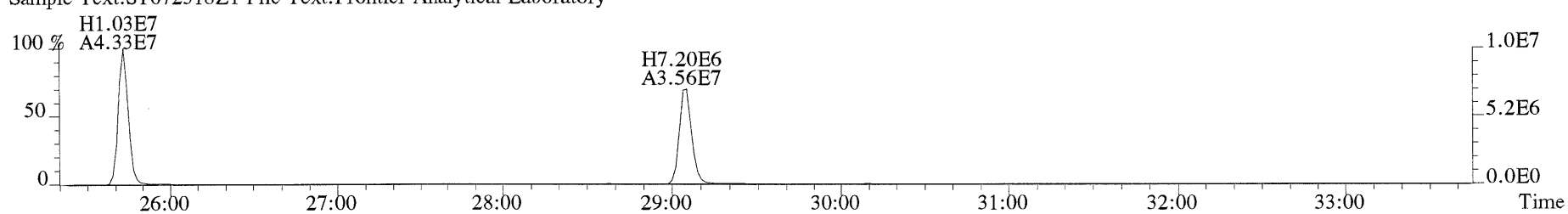
File:23JUL18Z #1-401 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



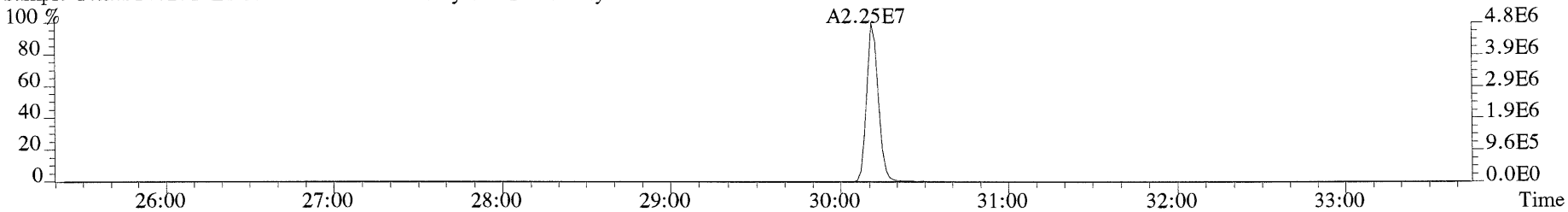
File:23JUL18Z #1-401 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



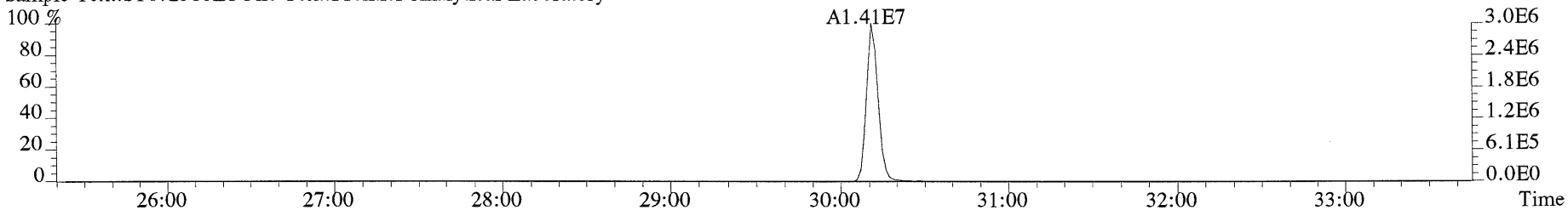
File:23JUL18Z #1-401 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



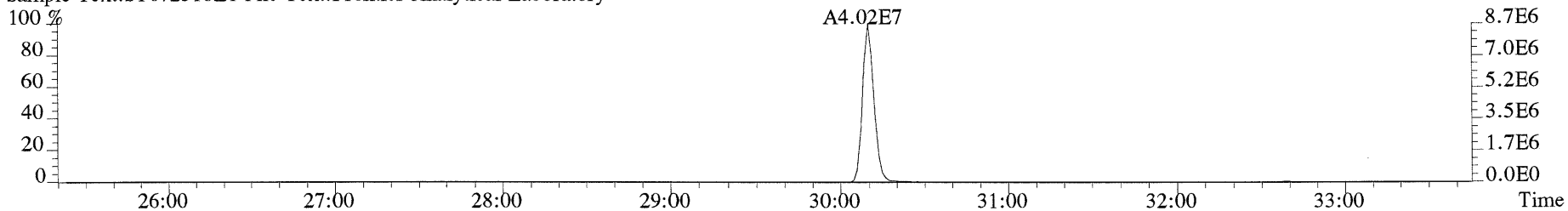
File:23JUL18Z #1-401 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



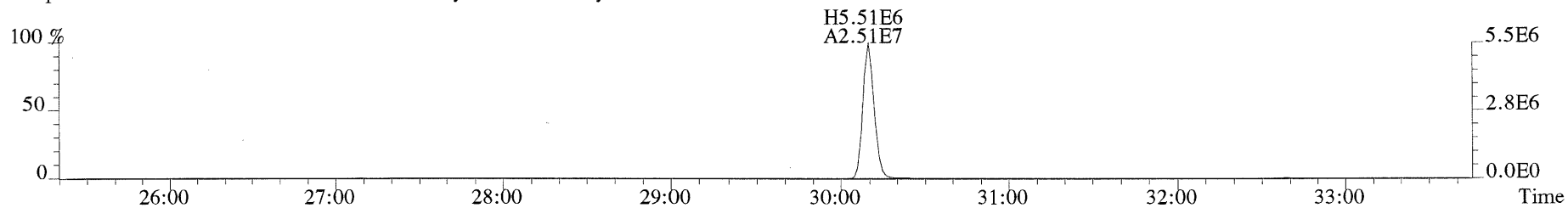
File:23JUL18Z #1-401 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



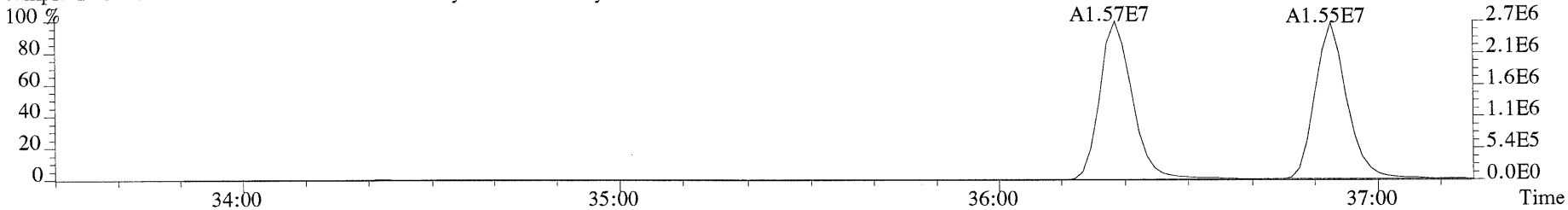
File:23JUL18Z #1-401 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



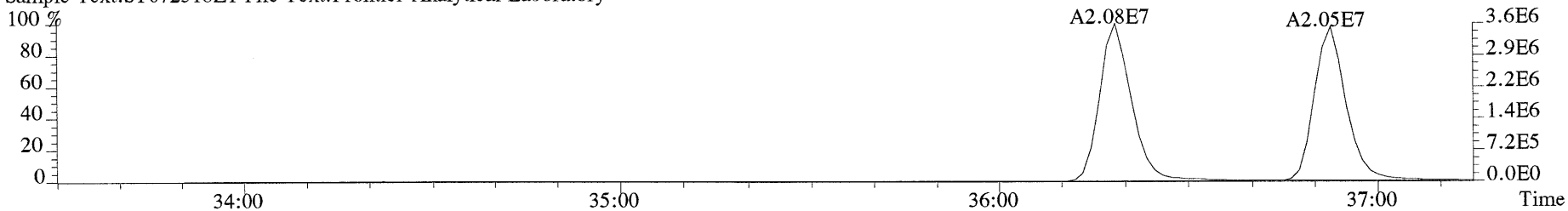
File:23JUL18Z #1-401 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



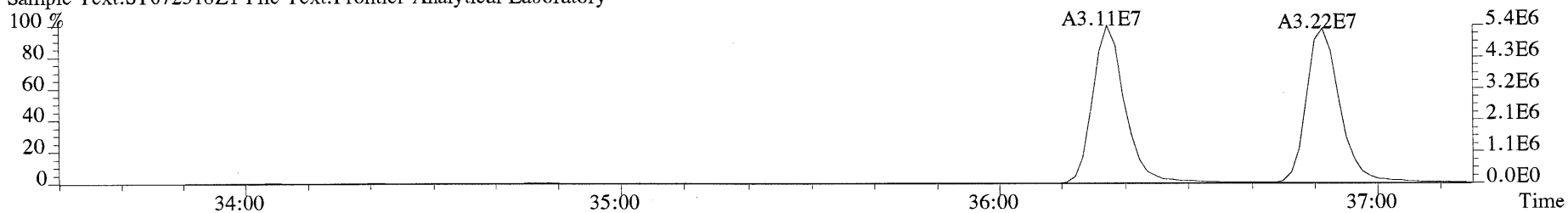
File:23JUL18Z #1-183 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



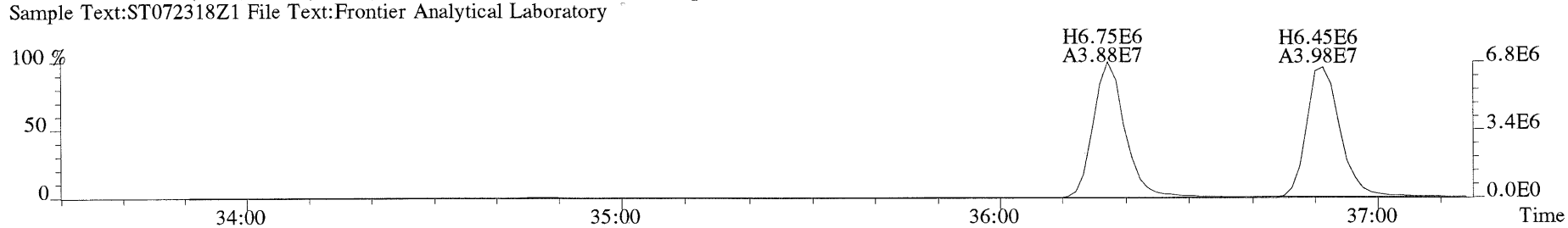
File:23JUL18Z #1-183 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



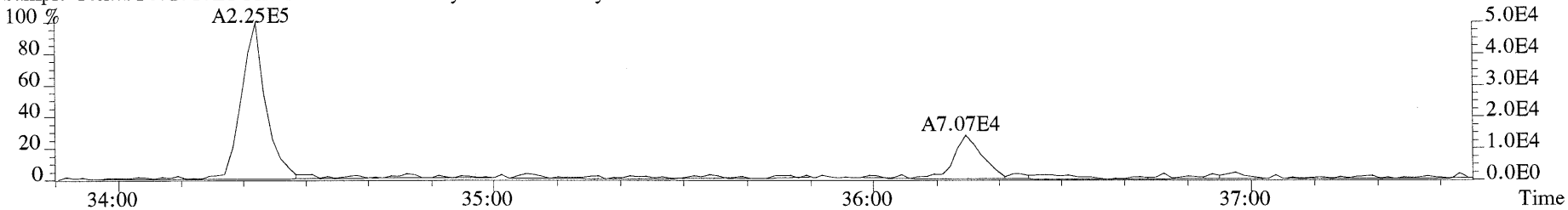
File:23JUL18Z #1-183 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



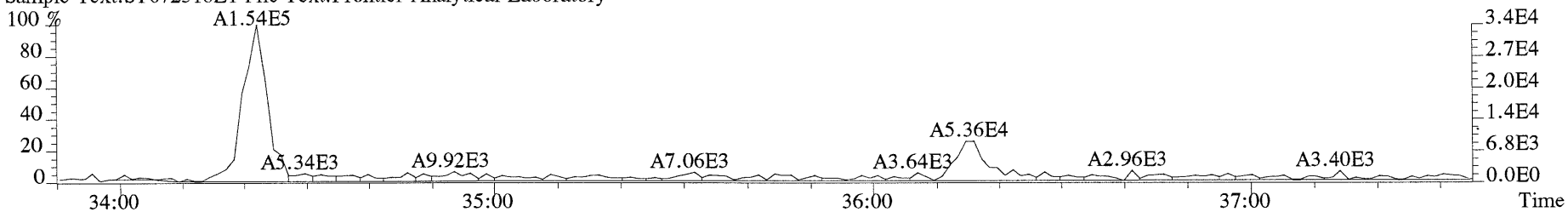
File:23JUL18Z #1-183 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



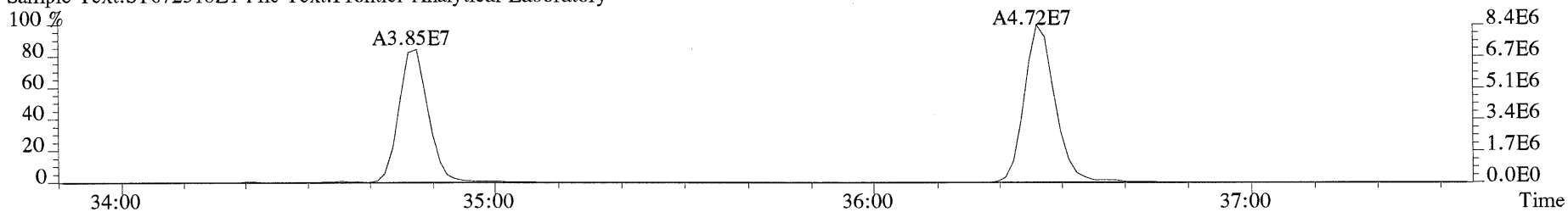
File:23JUL18Z #1-183 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



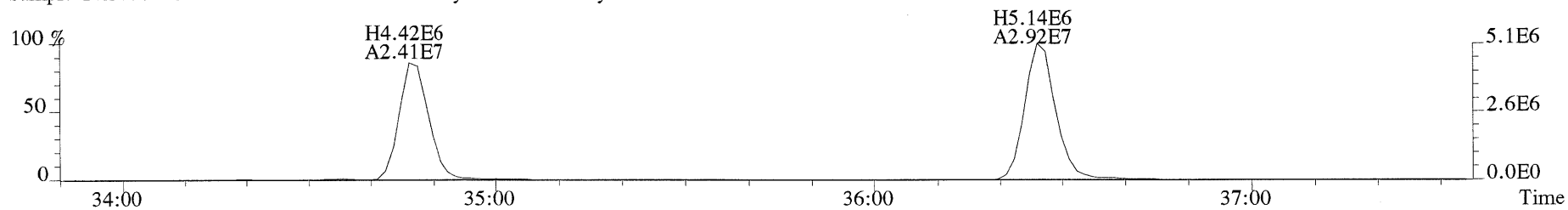
File:23JUL18Z #1-183 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



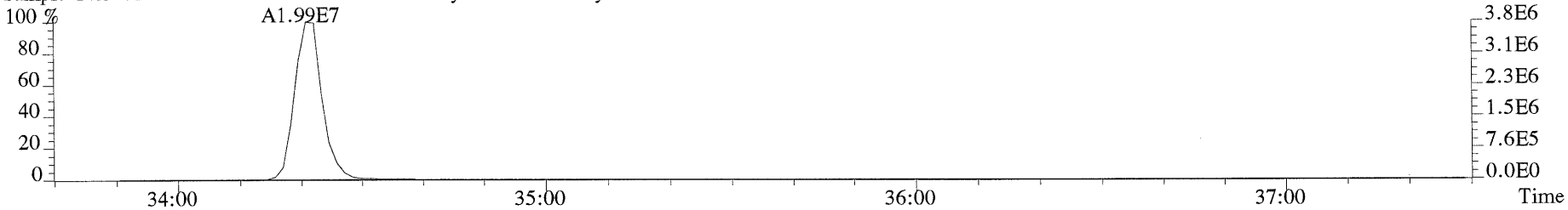
File:23JUL18Z #1-183 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



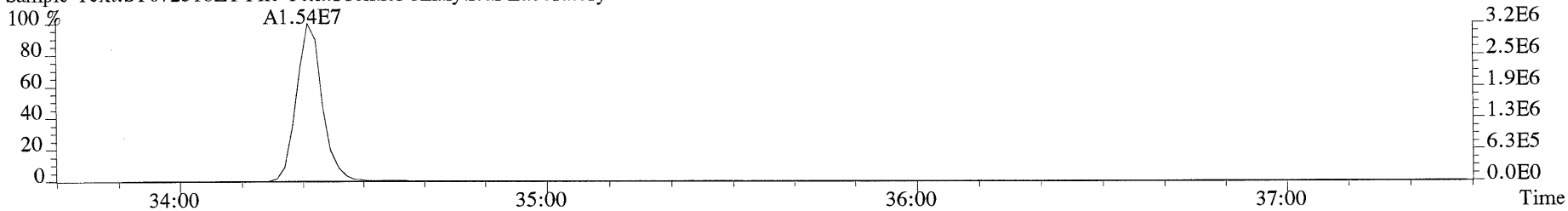
File:23JUL18Z #1-183 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



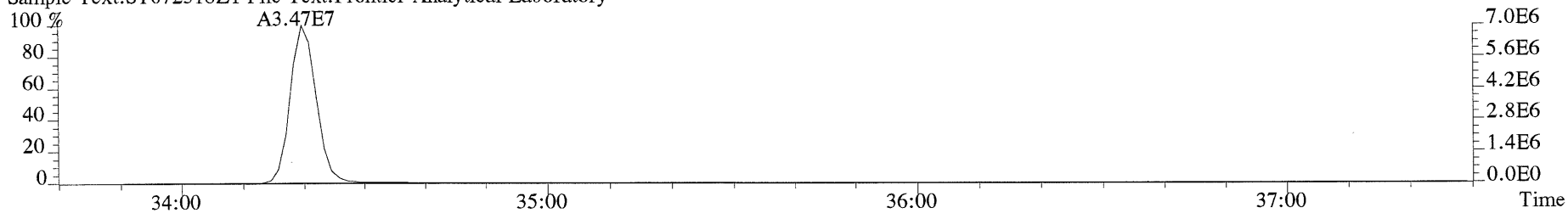
File:23JUL18Z #1-183 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



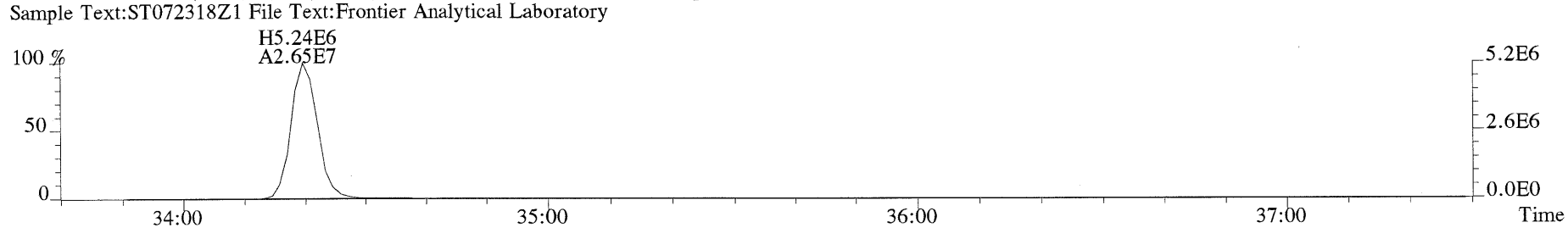
File:23JUL18Z #1-183 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



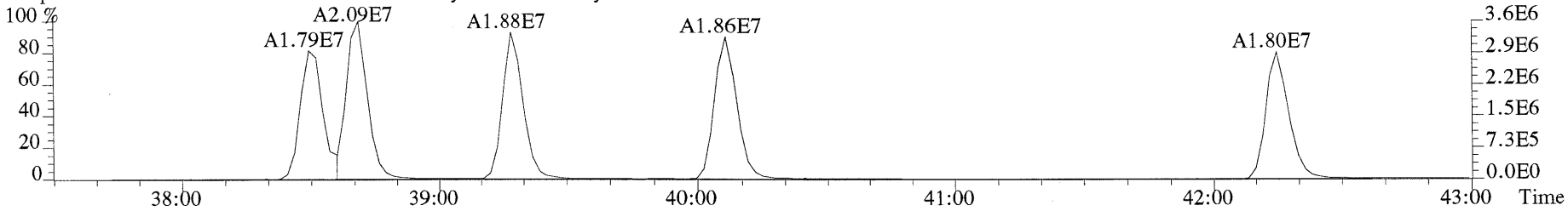
File:23JUL18Z #1-183 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



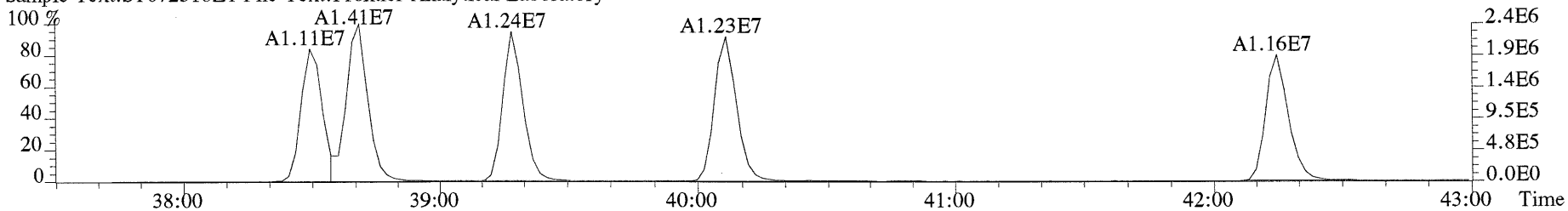
File:23JUL18Z #1-183 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



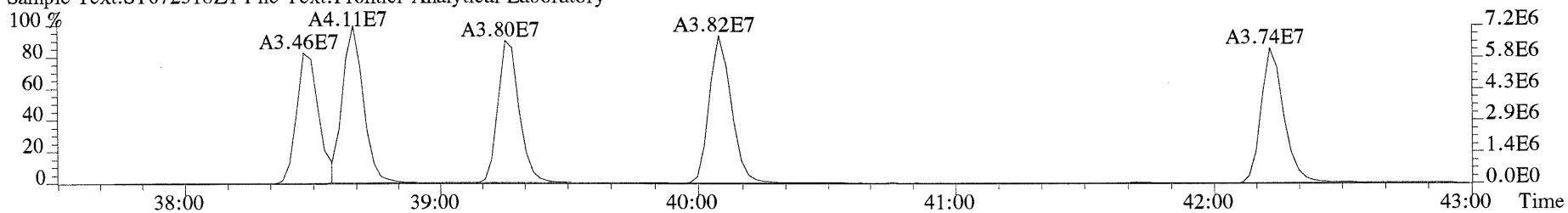
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



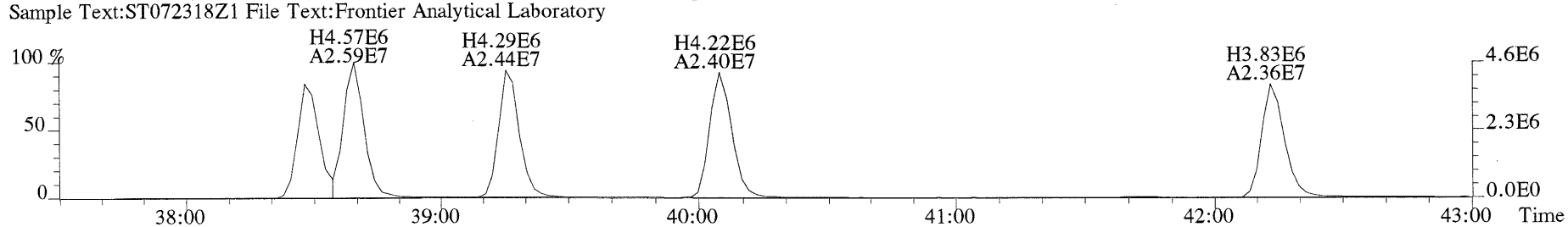
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



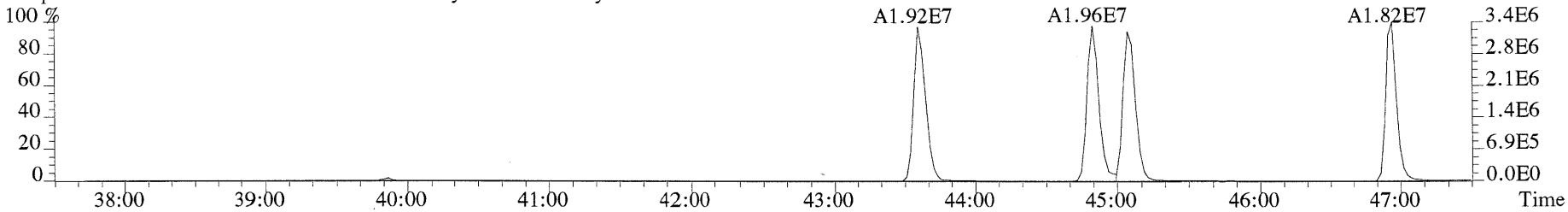
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



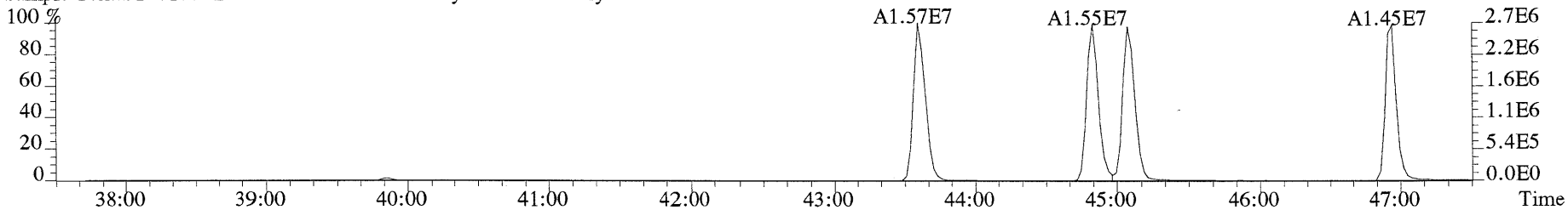
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



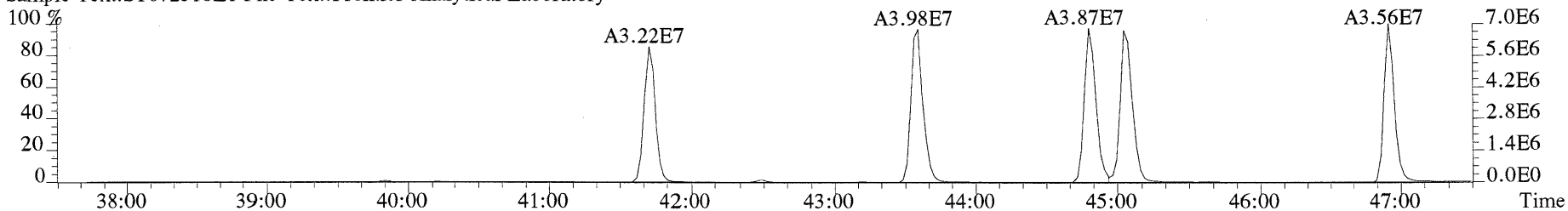
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



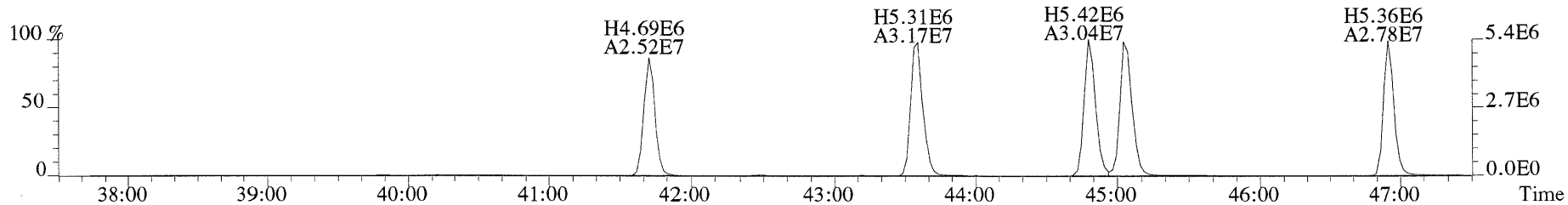
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



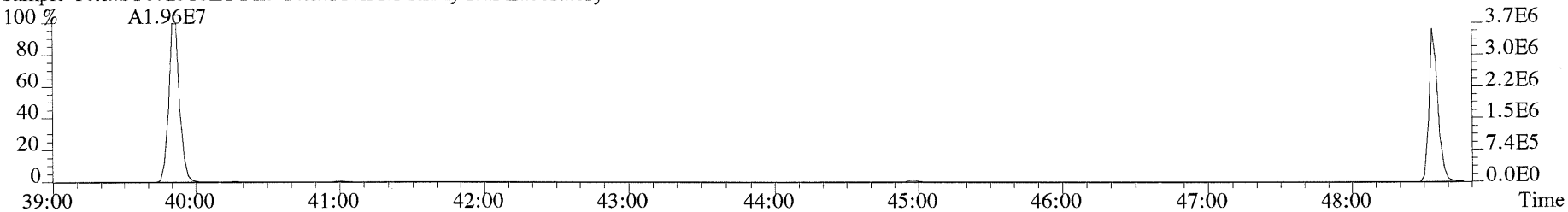
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



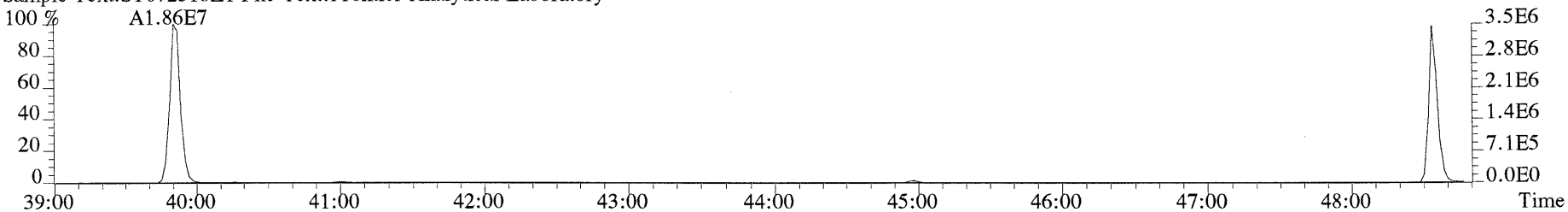
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



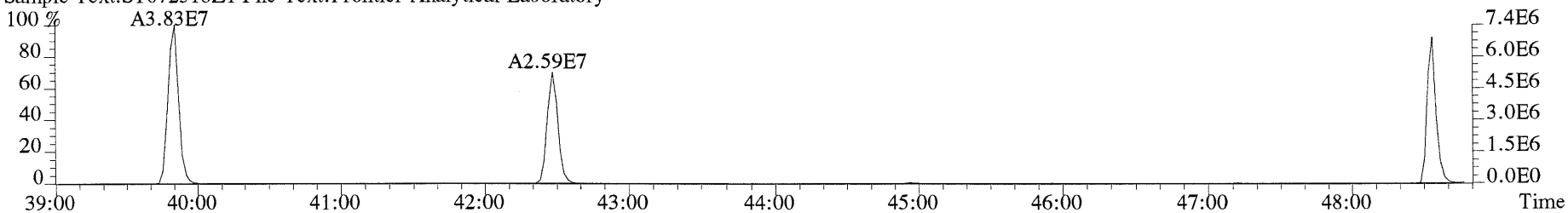
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



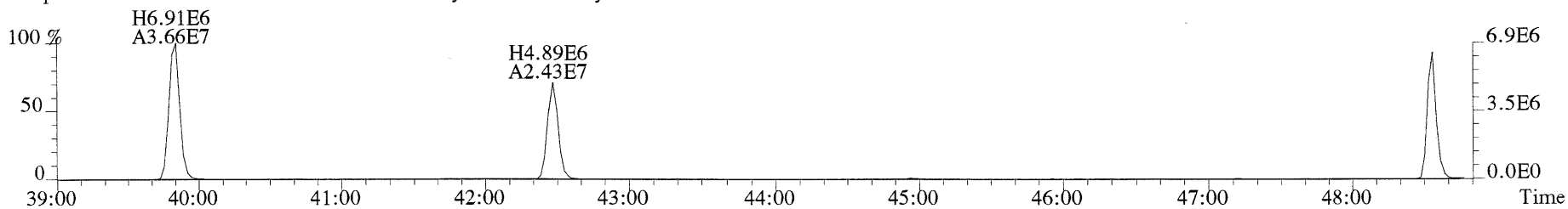
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



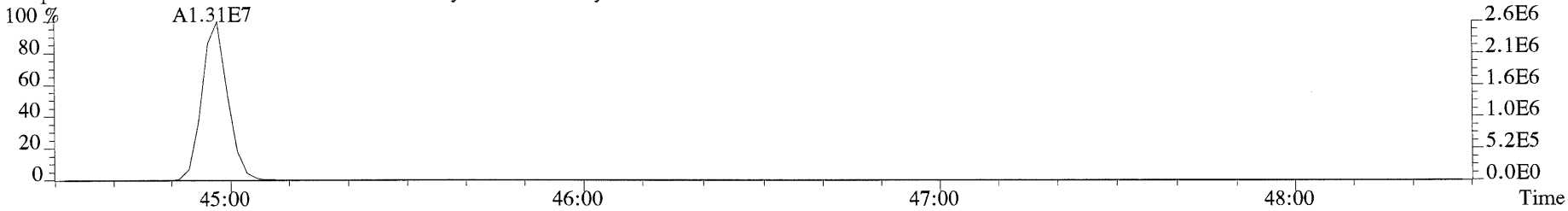
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



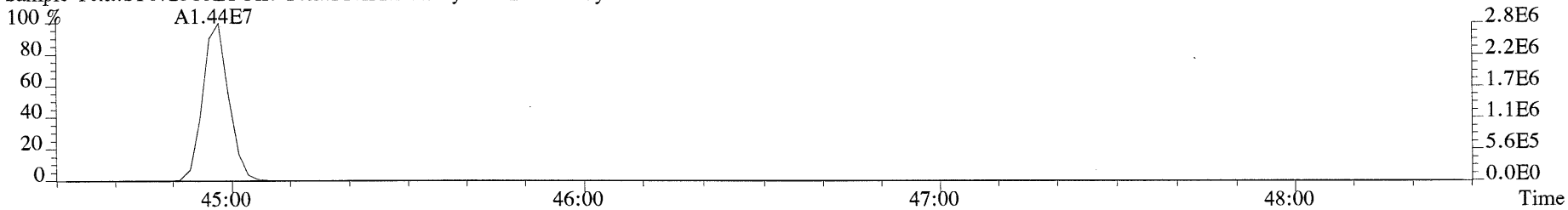
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



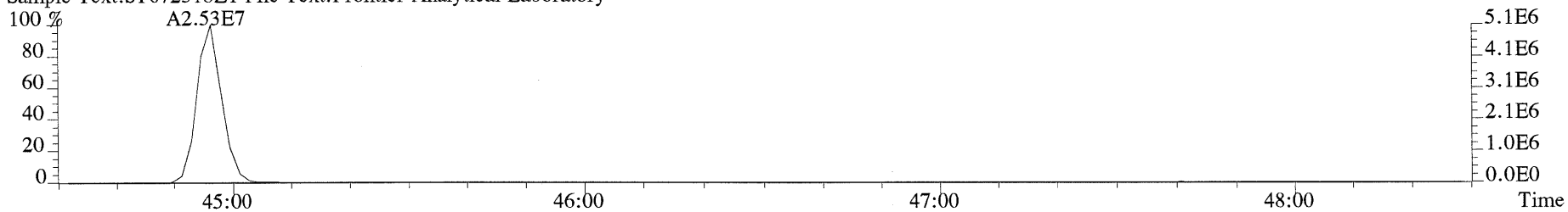
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



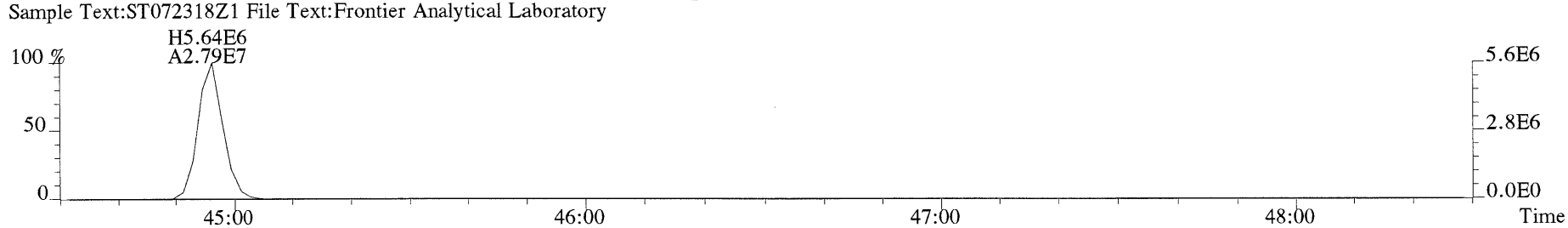
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



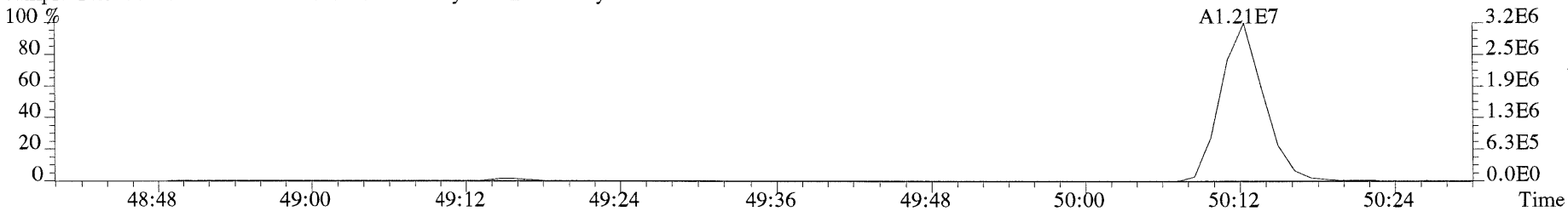
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



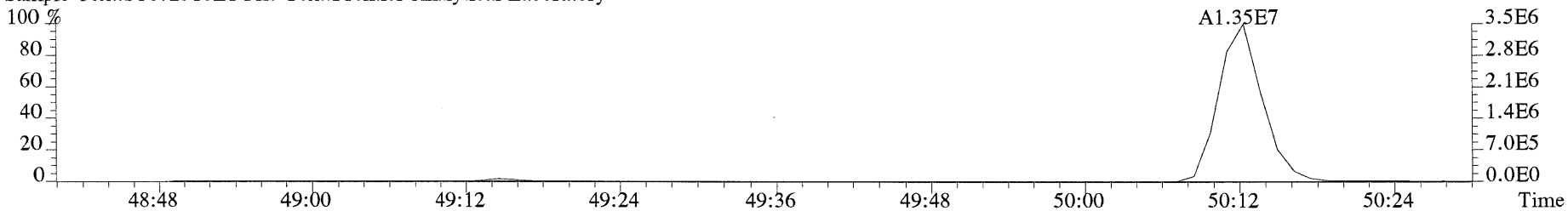
File:23JUL18Z #1-404 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



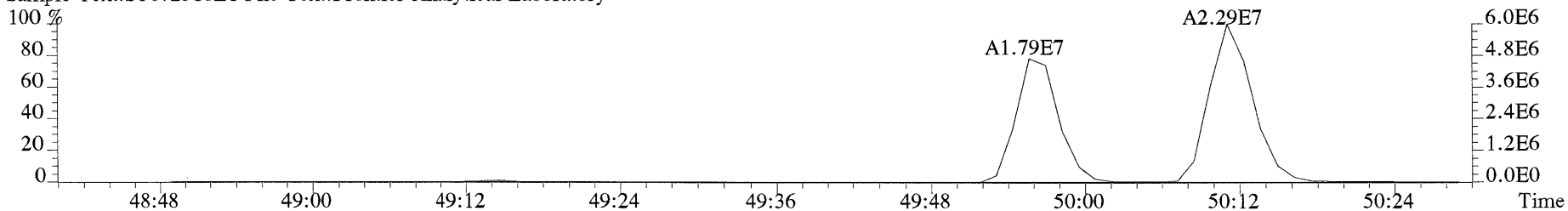
File:23JUL18Z #1-314 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



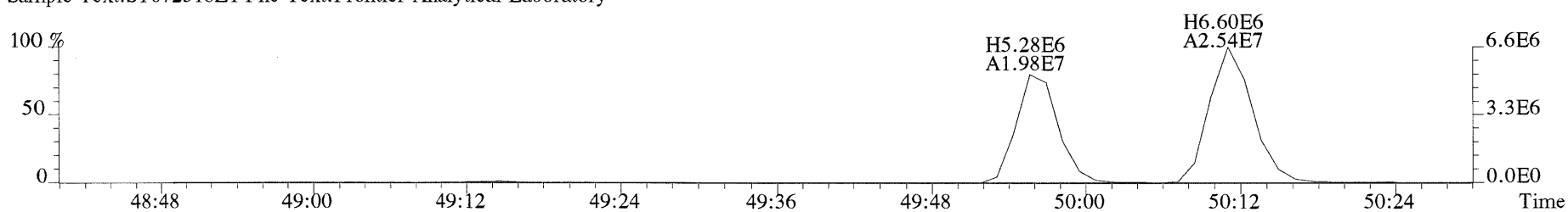
File:23JUL18Z #1-314 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



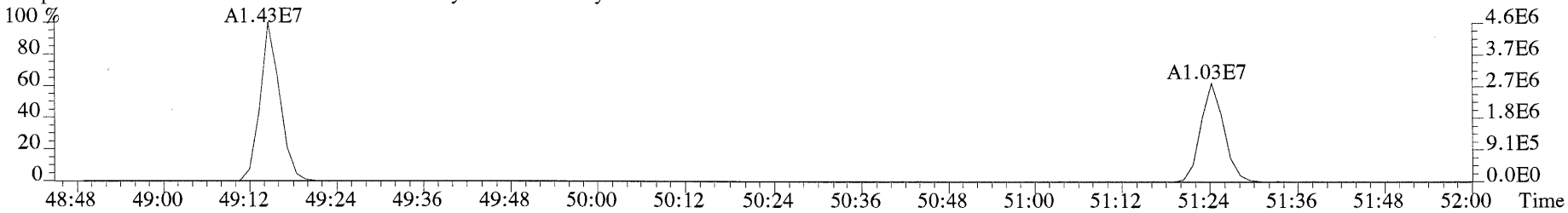
File:23JUL18Z #1-314 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



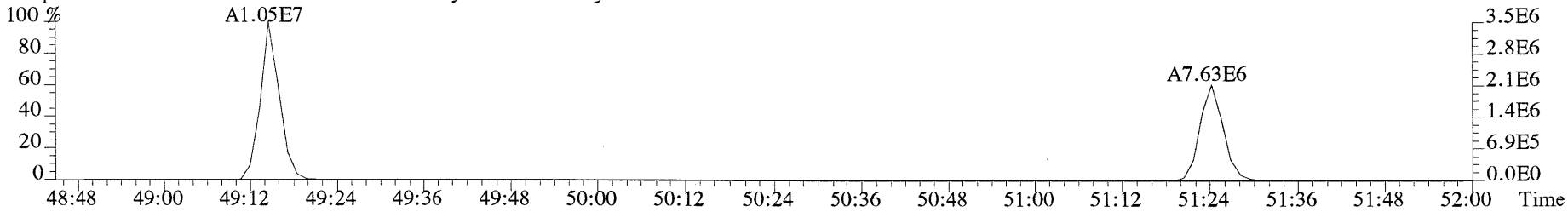
File:23JUL18Z #1-314 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



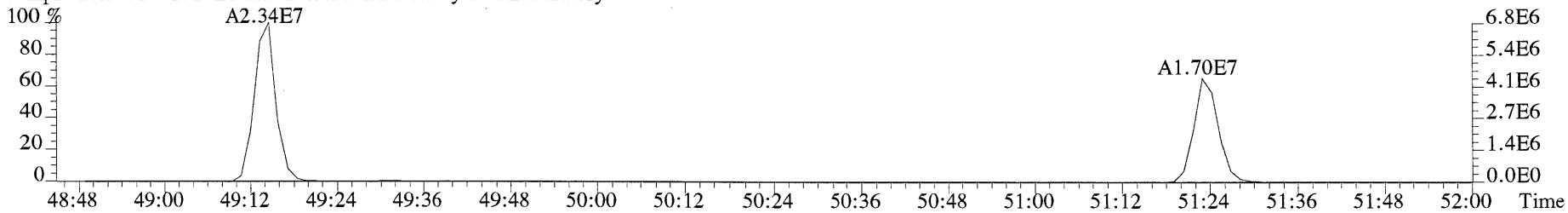
File:23JUL18Z #1-314 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



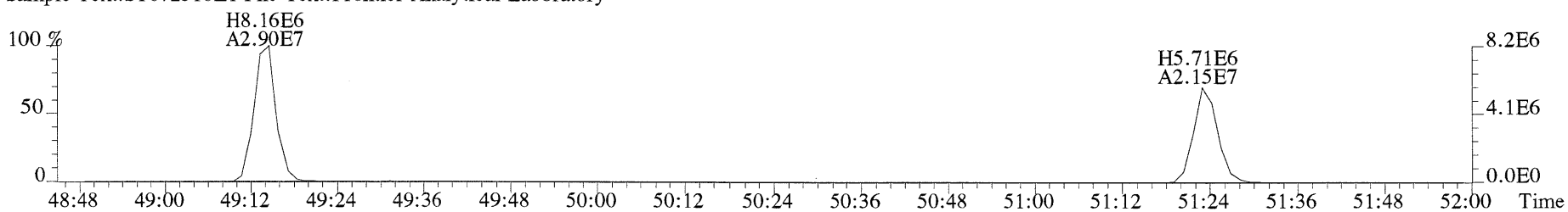
File:23JUL18Z #1-314 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



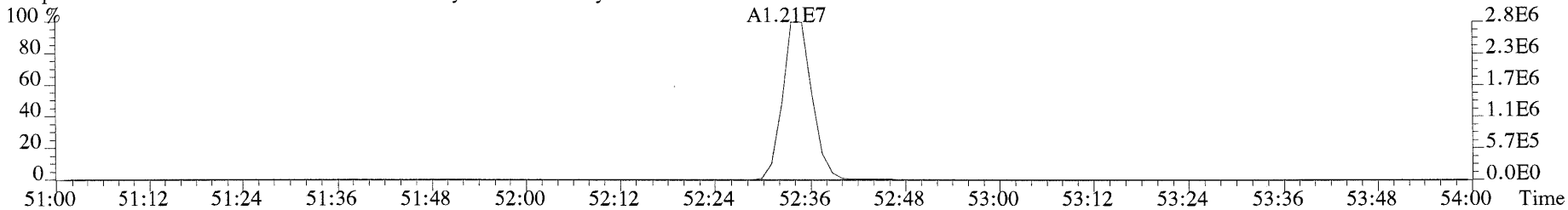
File:23JUL18Z #1-314 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



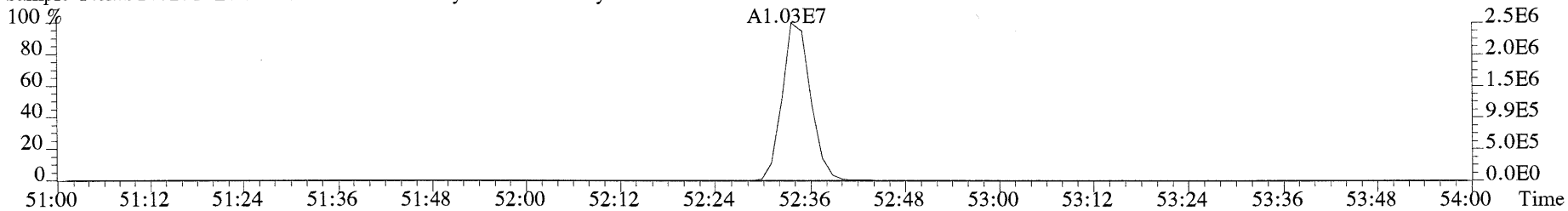
File:23JUL18Z #1-314 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



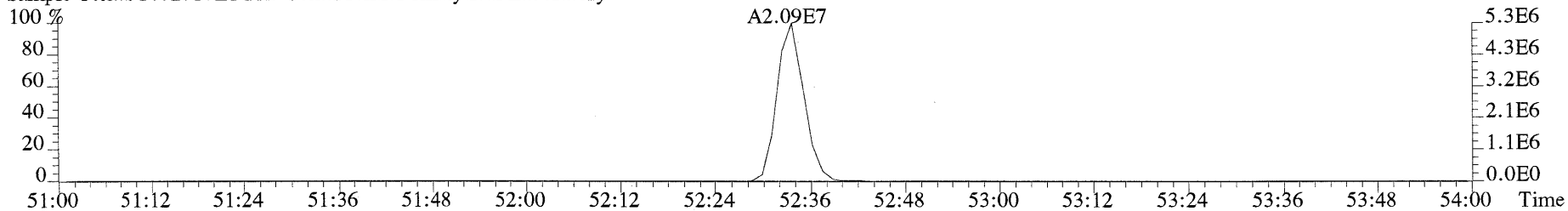
File:23JUL18Z #1-314 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



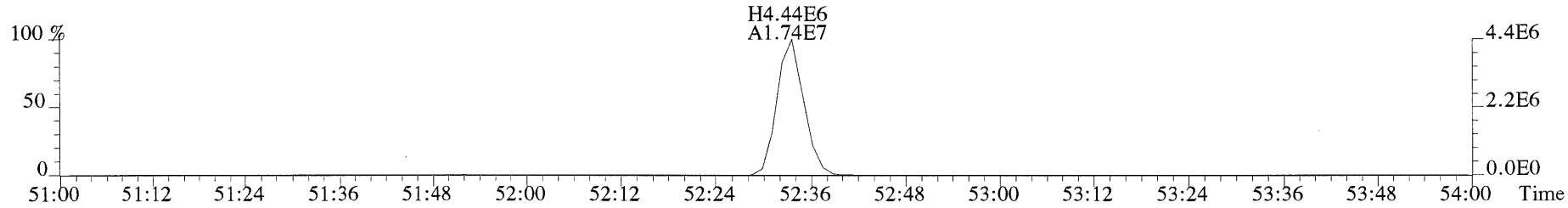
File:23JUL18Z #1-314 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory



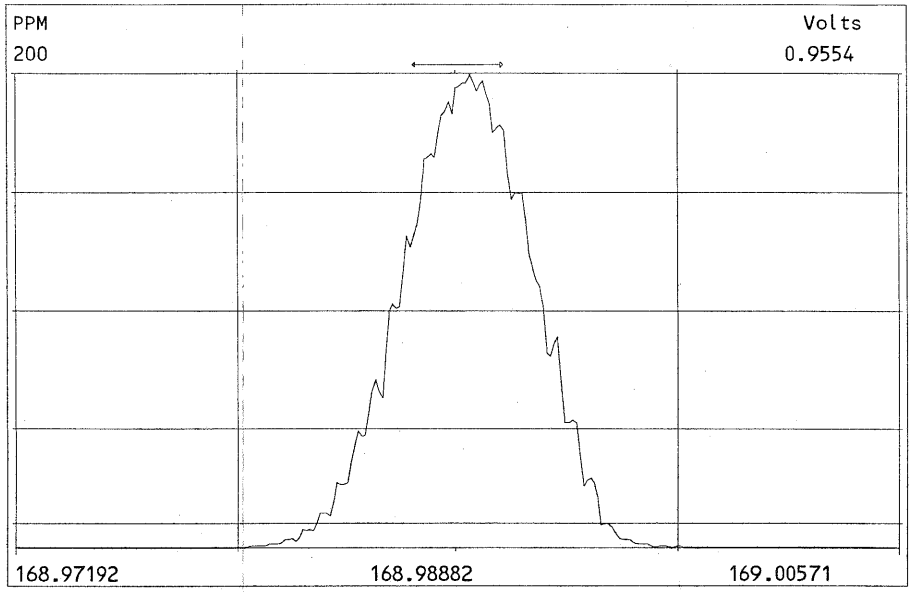
File:23JUL18Z #1-314 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory

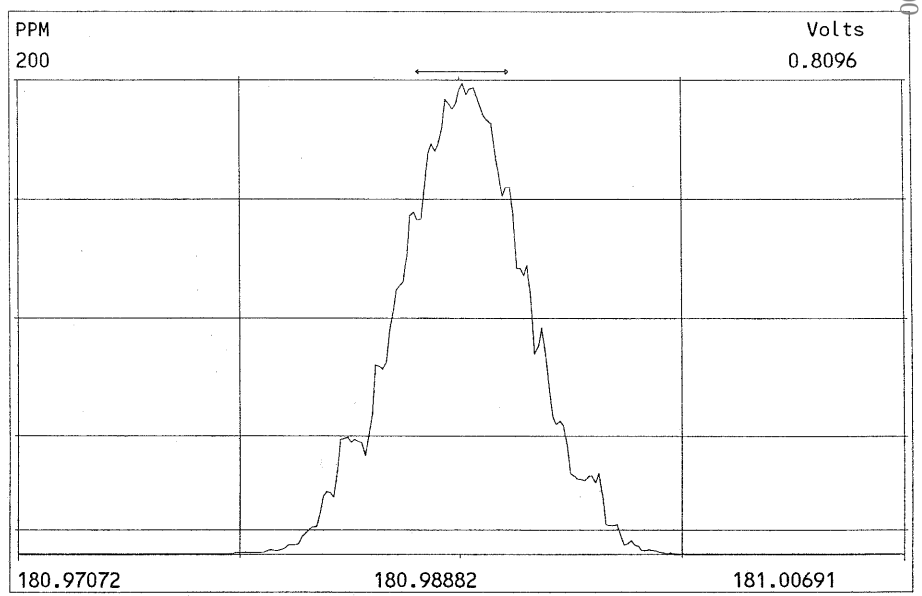


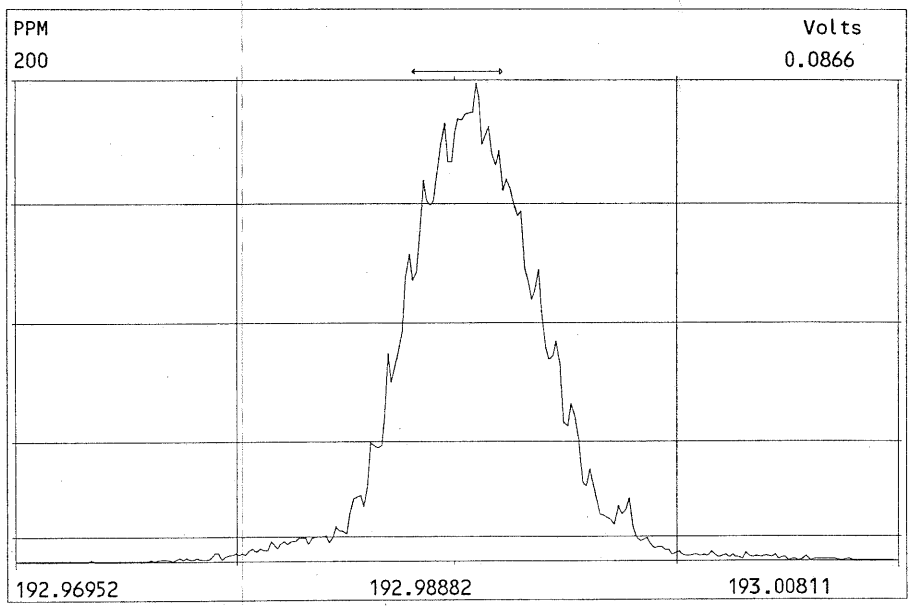
File:23JUL18Z #1-314 Acq:23-JUL-2018 14:47:30 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z1 File Text:Frontier Analytical Laboratory

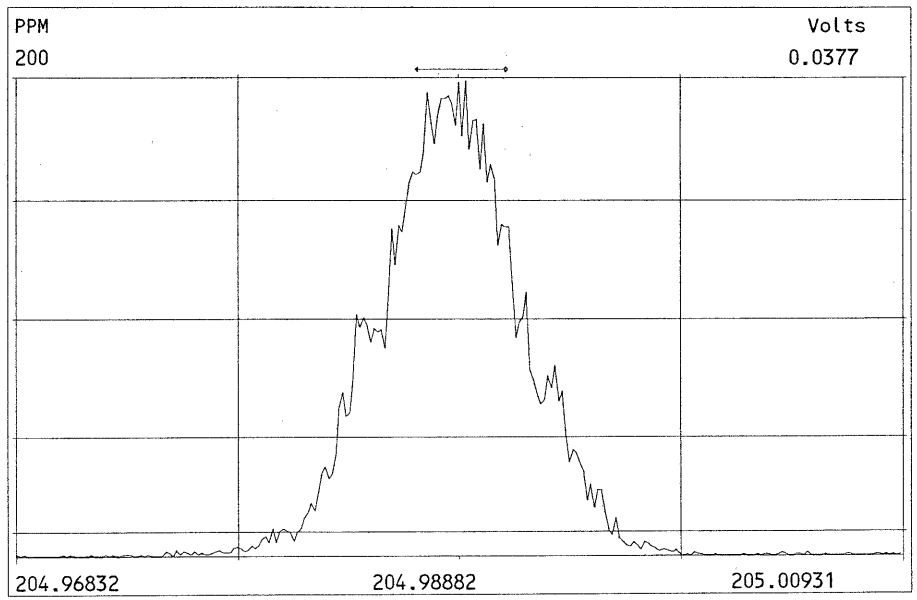


Peak Locate Examination:24-JUL-2018:05:31 File:23JUL18Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

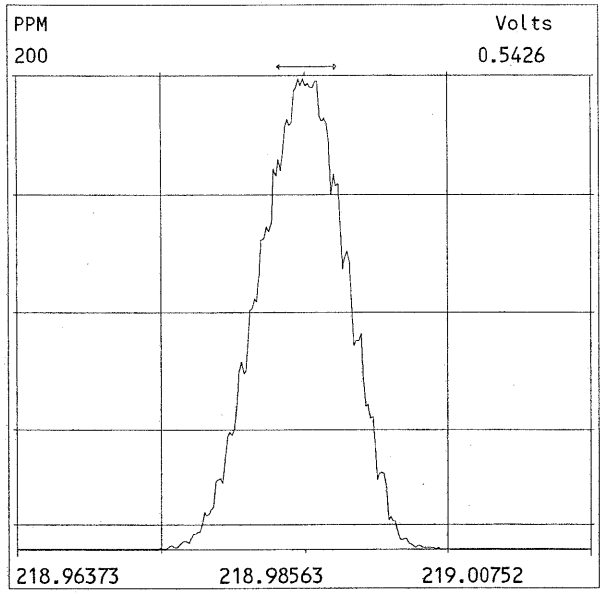


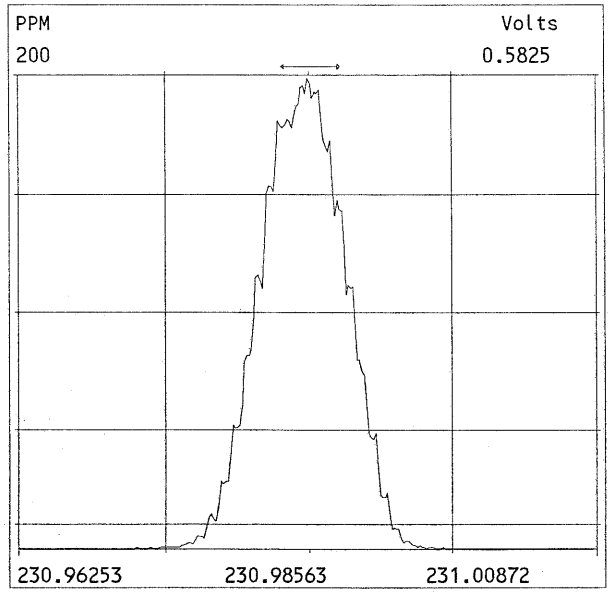


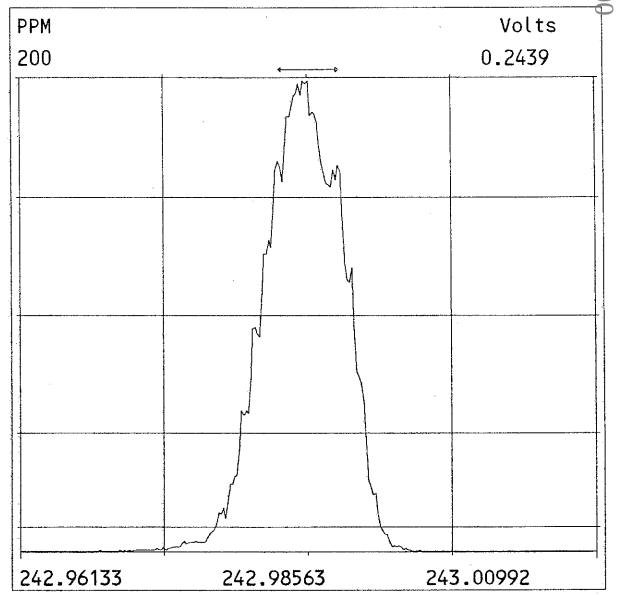


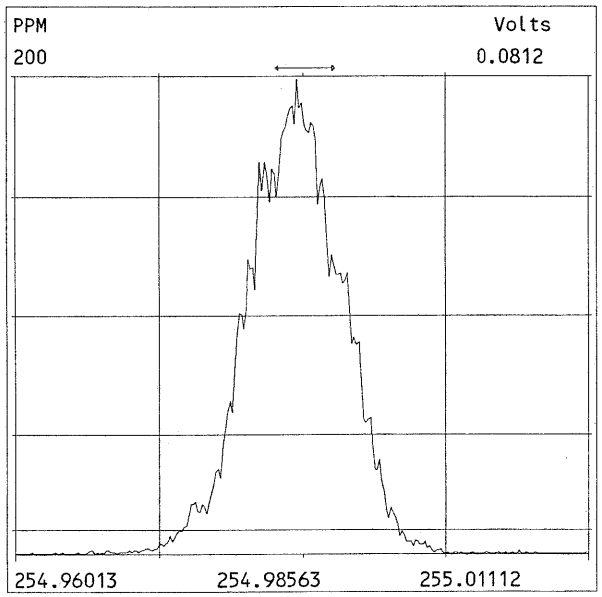


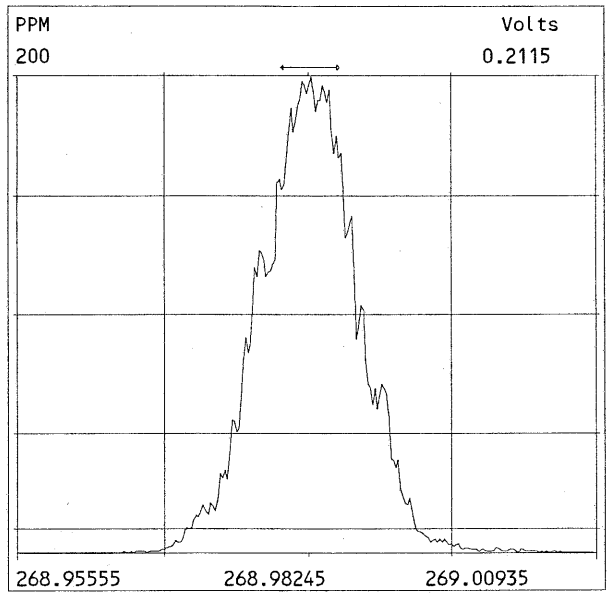
Peak Locate Examination:24-JUL-2018:05:32 File:23JUL18Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

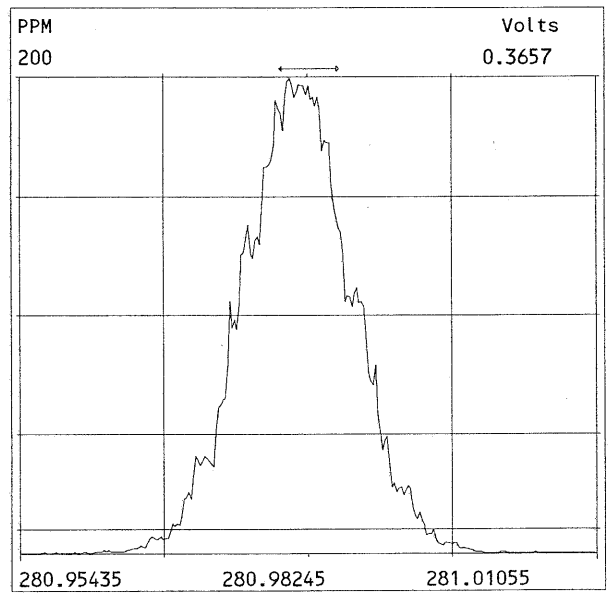




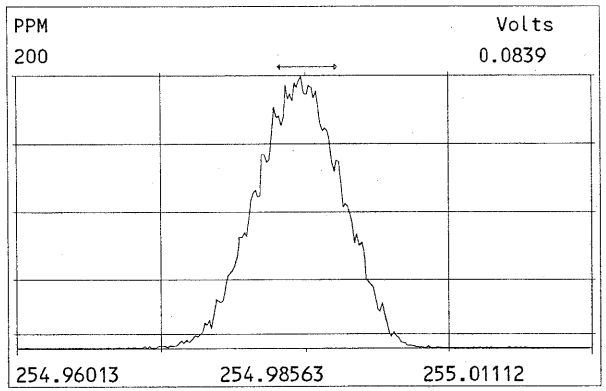


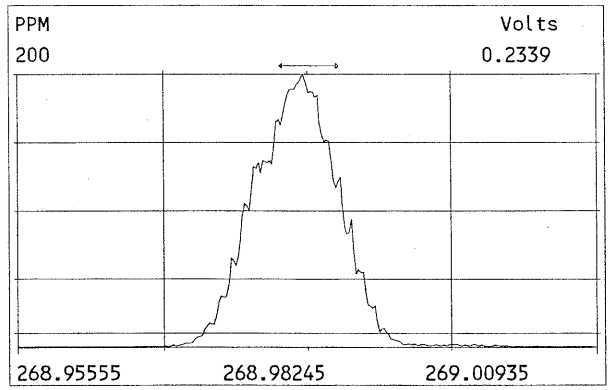


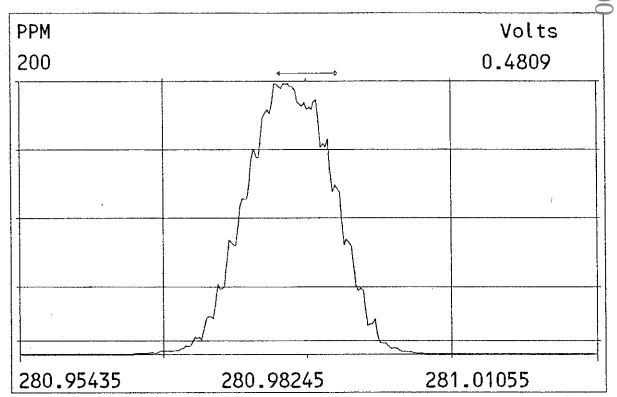


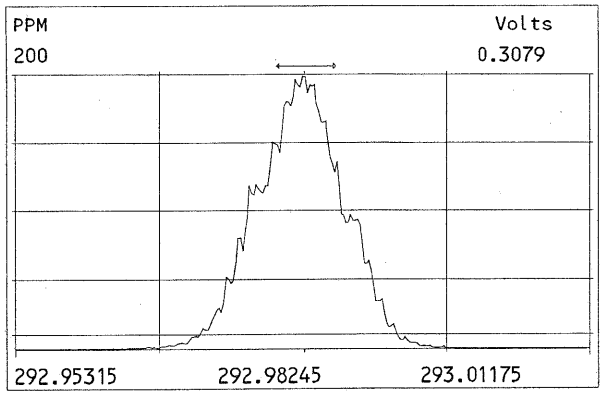


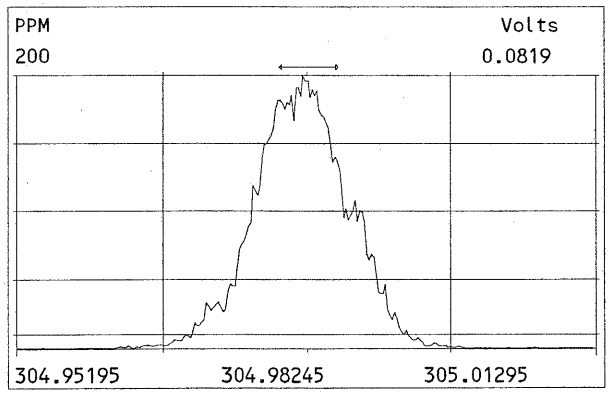
Peak Locate Examination:24-JUL-2018:05:32 File:23JUL18Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

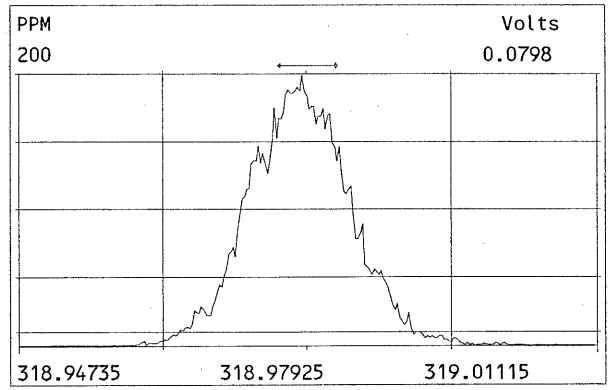


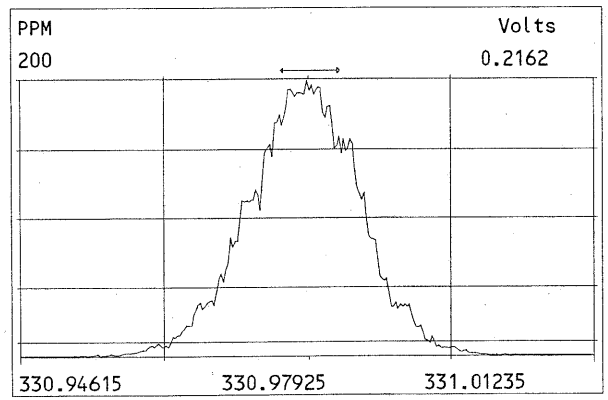


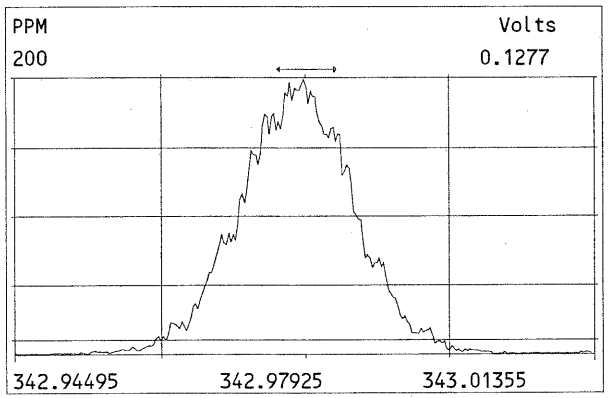




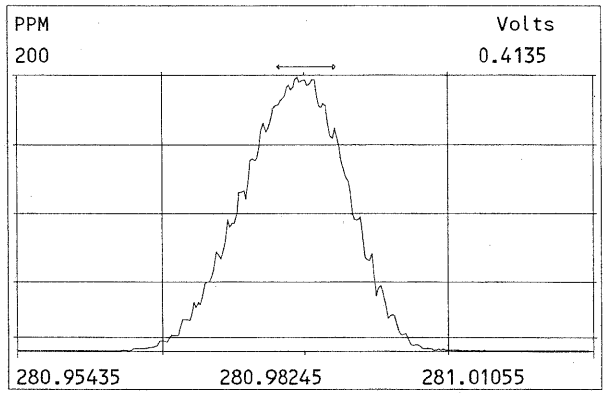


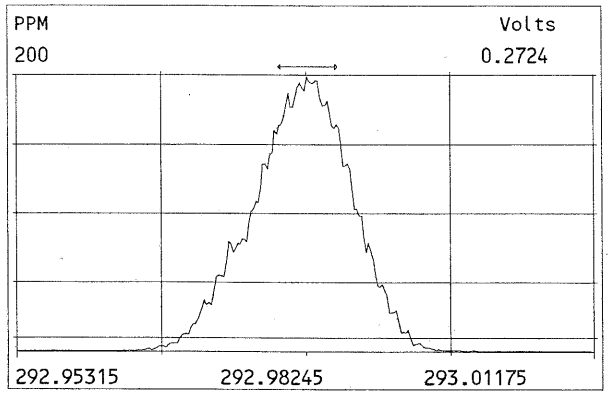


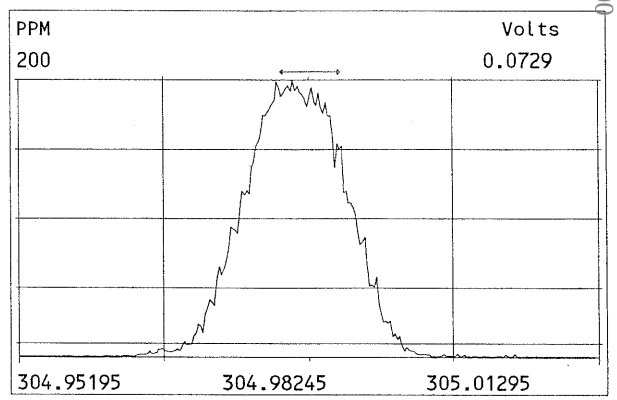


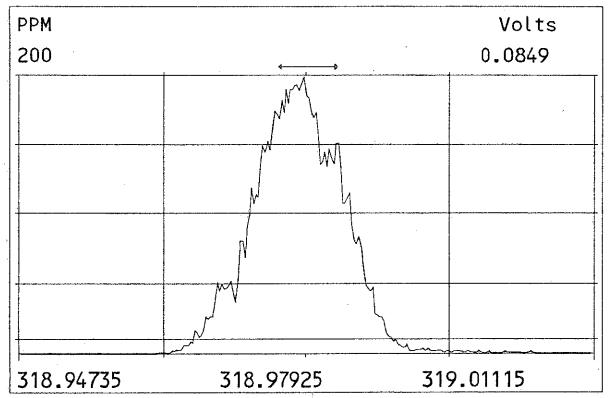


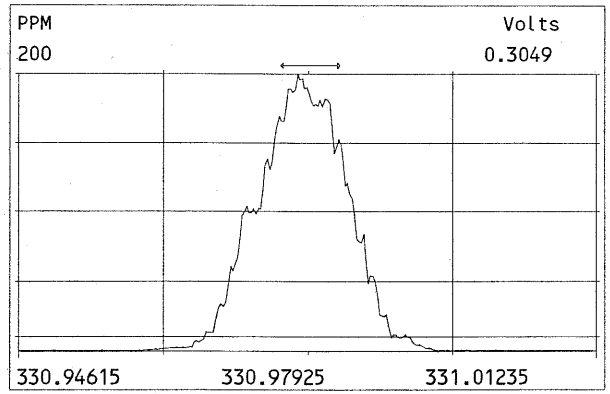
Peak Locate Examination:24-JUL-2018:05:33 File:23JUL18Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

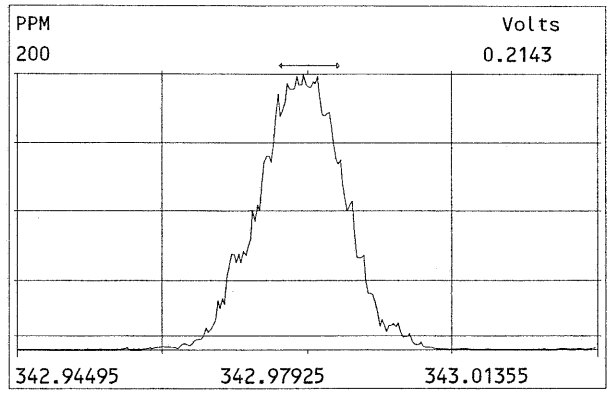


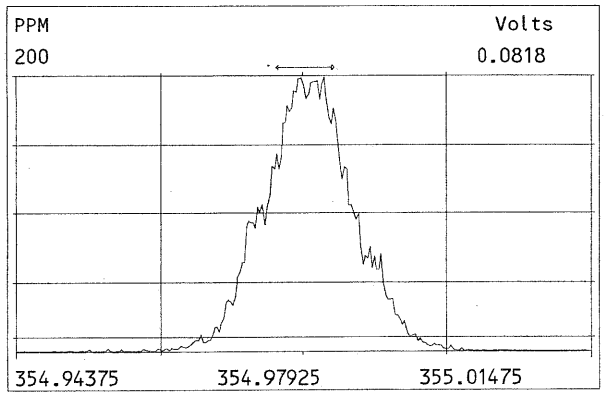


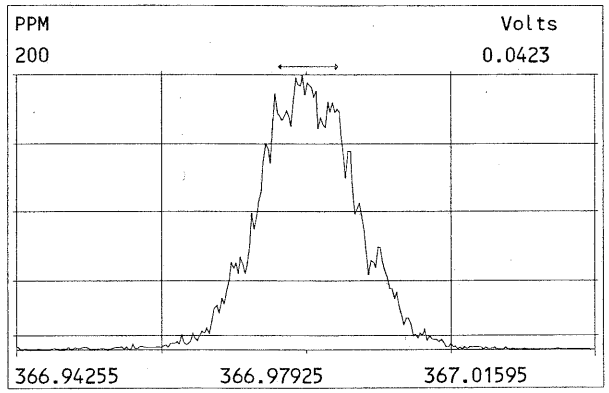


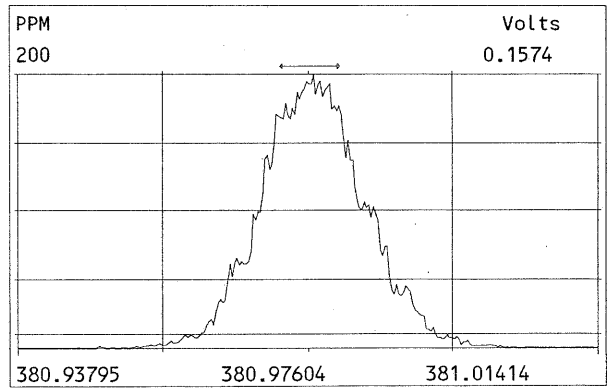






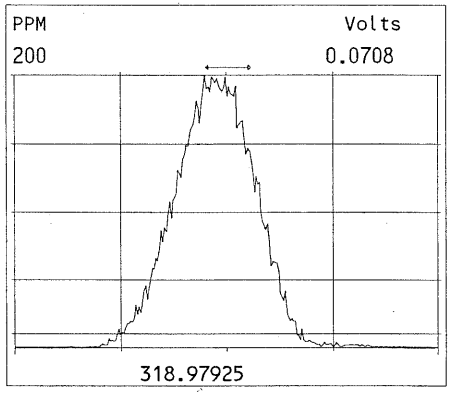


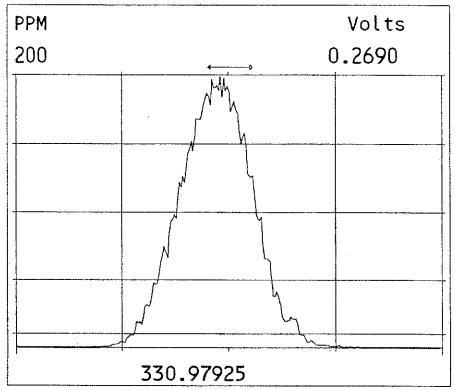


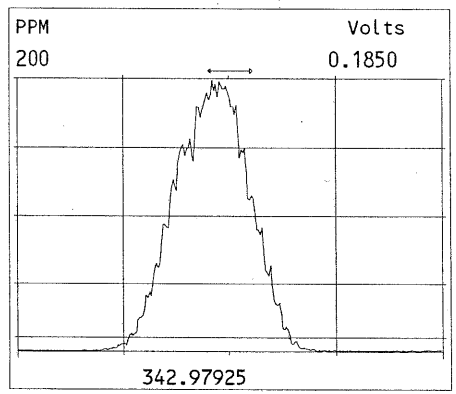


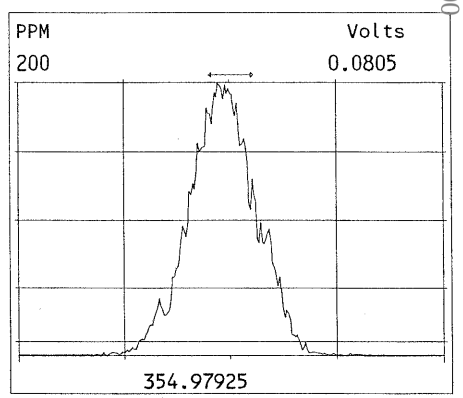
Peak Locate Examination:24-JUL-2018:05:33 File:23JUL18Z_RES_CHECK

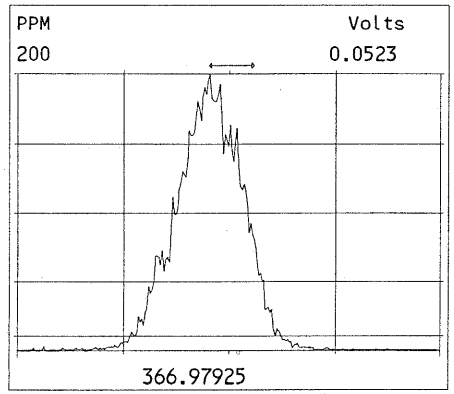
Experiment:1668PCB Function:5 Reference:PFK

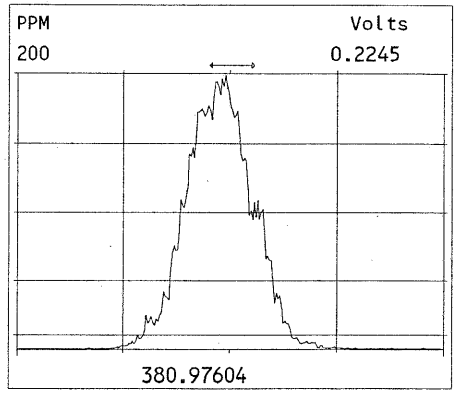


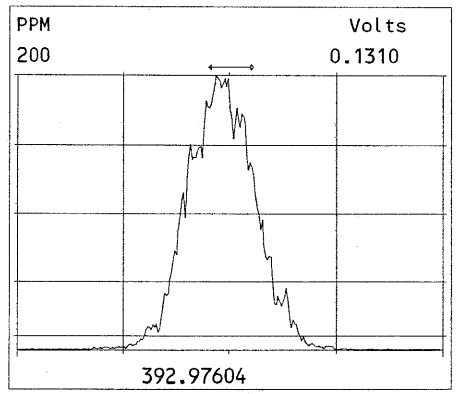


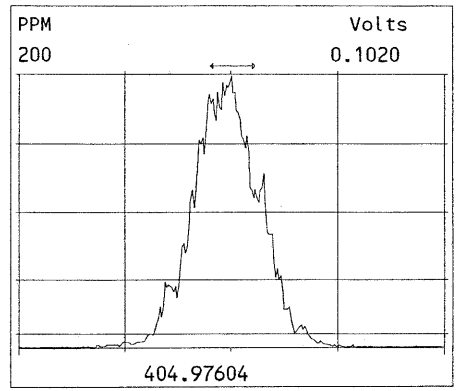


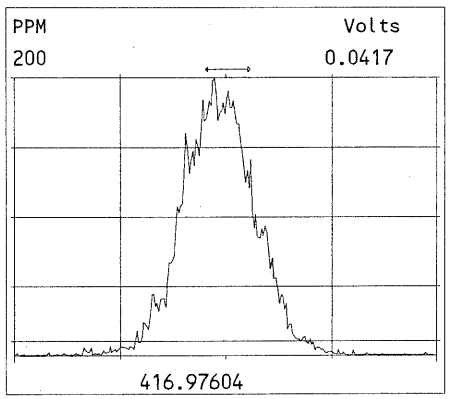


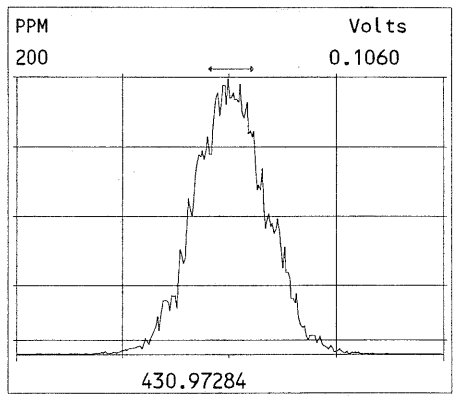


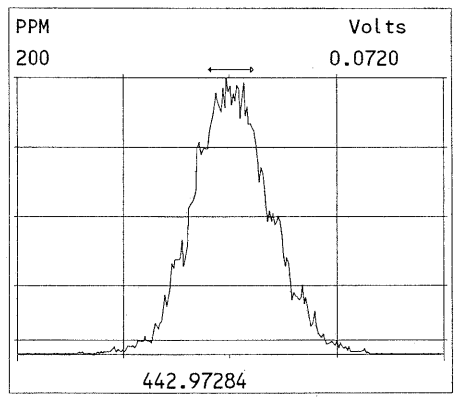




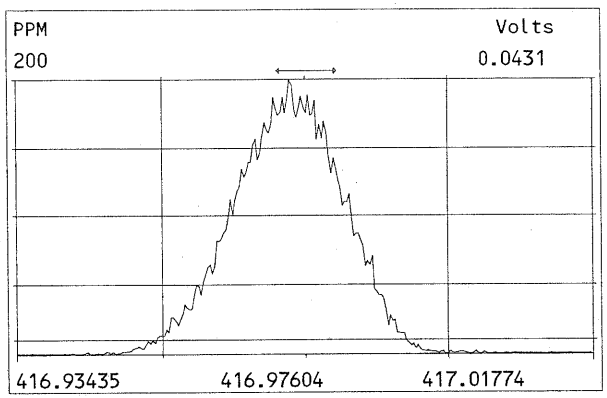


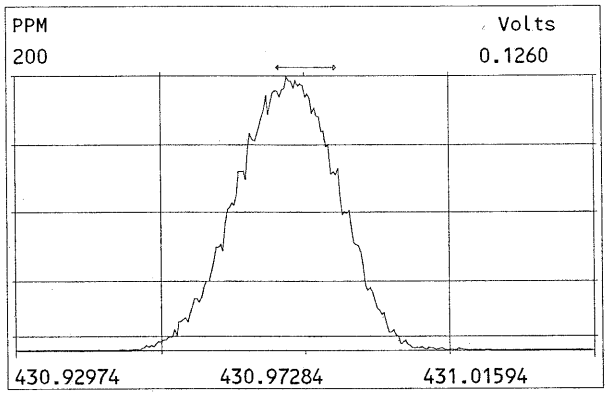


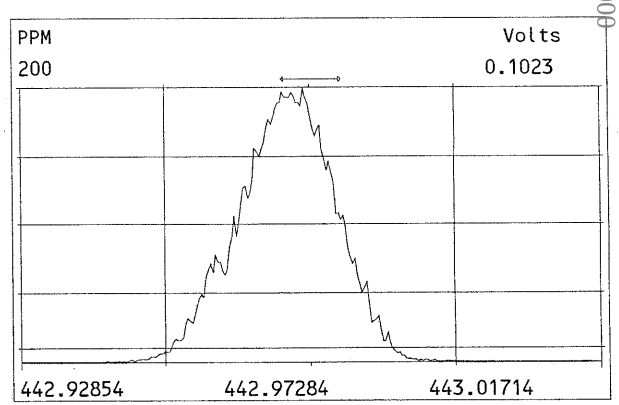


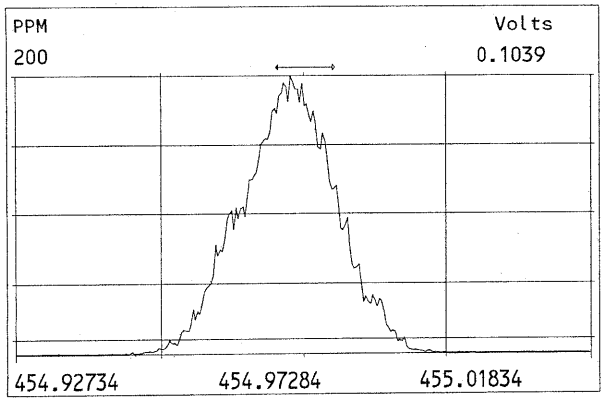


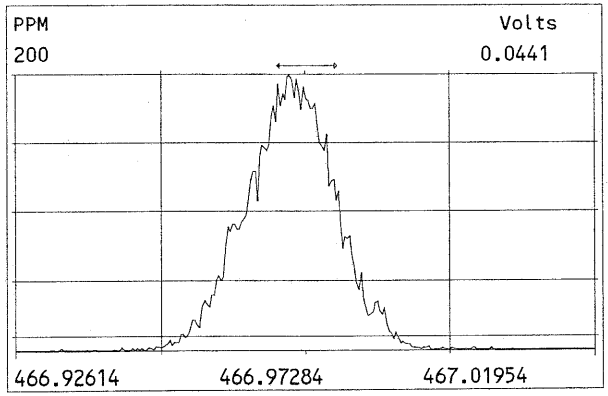
Peak Locate Examination:24-JUL-2018:05:34 File:23JUL18Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

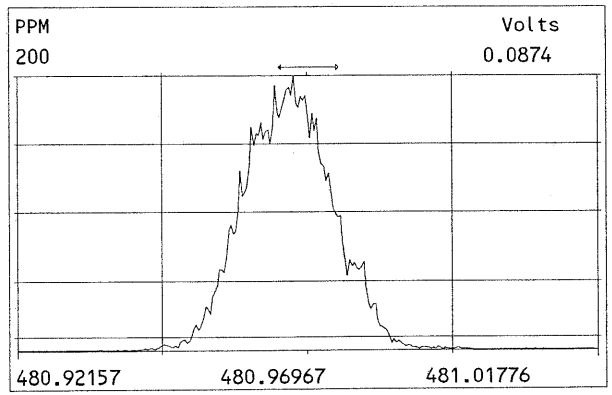


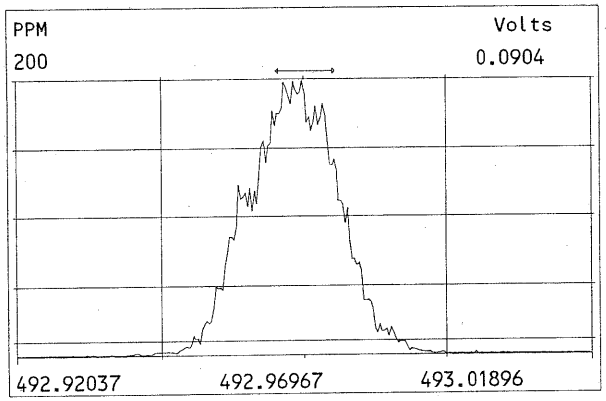


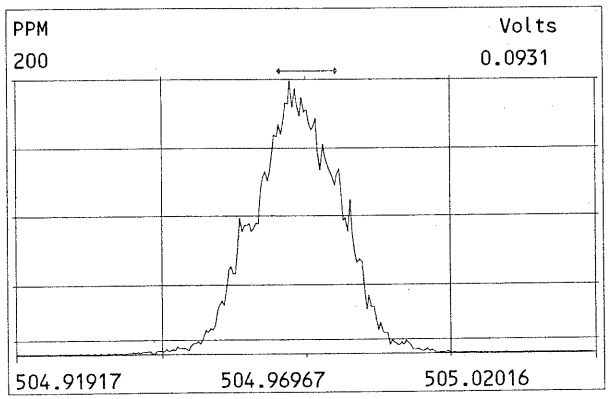


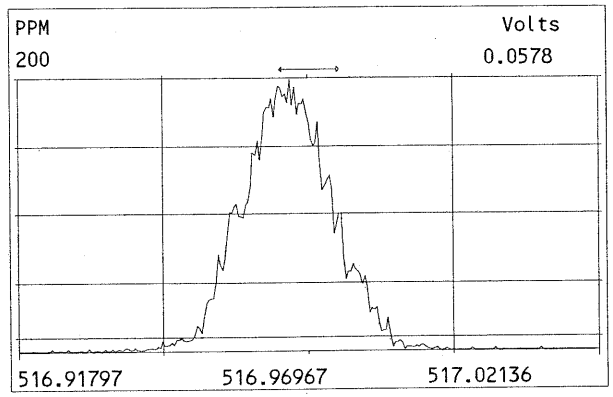












Cal: DAILY209FAL4-7-23-18

Run: 23JUL18Z Analyte: 11592-3 Results: 11592-3 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:23JUL18Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	0.9582	-	0.96	
13C-PCB-1	1.1070	-	1.11	
PCB-2	0.8987	-	0.90	
PCB-3	0.9395	-	0.94	
13C-PCB-3	1.1359	-	1.14	
PCB-4	1.1880	-	1.19	
PCB-10	0.9766	-	0.98	
13C-PCB-4	0.6043	-	0.60	
PCB-9	1.1533	*	1.15	
PCB-7	1.1815	-	1.18	
PCB-6	1.1445	-	1.14	
PCB-8	1.0319	-	1.03	
PCB-5	1.2868	-	1.29	
PCB-14	1.1388	-	1.14	
PCB-11	1.0896	-	1.09	
PCB-13	1.1480	*	1.15	
PCB-12	1.1727	-	1.17	
PCB-15	1.0382	-	1.04	
13C-PCB-15	1.0110	-	1.01	
PCB-19	1.0433	-	1.04	
PCB-30	1.4632	-	1.46	
PCB-18	1.0463	-	1.05	
PCB-17	1.1405	-	1.14	
PCB-27	1.4588	-	1.46	
PCB-24	1.5130	-	1.51	
PCB-16	1.2104	-	1.21	
PCB-32	1.3245	-	1.32	
13C-PCB-19	0.6210	-	0.62	
13C-PCB-9	-	-	-	
PCB-34	0.8373	-	0.84	
PCB-23	1.0062	*	1.01	
PCB-29	0.9478	-	0.95	
PCB-26	0.8865	-	0.89	
PCB-25	1.1319	-	1.13	
PCB-31	0.9289	*	0.93	
PCB-28	1.0988	-	1.10	
PCB-20	0.9602	-	0.96	Co-elute PCB 21/33
PCB-21	0.9602	-	0.96	Co-elute PCB 20/33
PCB-33	0.9602	-	0.96	Co-elute PCB 20/21
PCB-22	1.0041	-	1.00	
PCB-36	0.9343	-	0.93	
PCB-39	0.9692	*	0.97	
PCB-38	0.9739	*	0.97	
PCB-35	0.9197	-	0.92	
PCB-37	1.0732	*	1.07	
13C-PCB-37	1.2418	-	1.24	

PCB-54	1.0255	-	1.03	
PCB-50	0.7573	-	0.76	
PCB-53	0.7641	-	0.76	
PCB-51	0.8185	-	0.82	
PCB-45	0.6937	-	0.69	
PCB-46	0.6523	-	0.65	
PCB-52	1.0485	-	1.05	Co-elute PCB 69
PCB-69	1.0485	-	1.05	Co-elute PCB 52
PCB-73	0.9063	-	0.91	
PCB-43	0.7907	-	0.79	Co-elute PCB 49
PCB-49	0.7907	-	0.79	Co-elute PCB 43
PCB-47	0.9698	-	0.97	
PCB-48	0.9927	-	0.99	Co-elute PCB 75
PCB-75	0.9927	-	0.99	Co-elute PCB 48
PCB-65	0.9523	-	0.95	
PCB-62	1.0986	-	1.10	
PCB-44	0.7587	-	0.76	
PCB-42	1.0047	-	1.00	Co-elute PCB 59
PCB-59	1.0047	-	1.00	Co-elute PCB 42
PCB-72	1.0528	-	1.05	Co-elute PCB 41/71/64
PCB-41	1.0528	-	1.05	Co-elute PCB 72/71/64
PCB-71	1.0528	-	1.05	Co-elute PCB 72/41/64
PCB-64	1.0528	-	1.05	Co-elute PCB 72/41/71
PCB-68	1.1479	-	1.15	
PCB-40	0.6664	-	0.67	
PCB-57	1.0861	-	1.09	
PCB-67	1.1941	-	1.19	
PCB-58	1.0407	-	1.04	
PCB-63	1.1164	-	1.12	
PCB-74	1.2315	-	1.23	
PCB-61	1.2283	-	1.23	Co-elute PCB 70
PCB-70	1.2283	-	1.23	Co-elute PCB 61
PCB-76	1.2154	*	1.22	Co-elute PCB 66
PCB-66	1.2154	*	1.22	Co-elute PCB 76
PCB-80	1.3210	-	1.32	
PCB-55	1.2458	-	1.25	
13C-PCB-54	1.0916	-	1.09	
PCB-104	1.1411	-	1.14	
PCB-96	1.0431	-	1.04	
PCB-103	0.8973	-	0.90	
PCB-100	0.9227	-	0.92	
PCB-94	0.7904	-	0.79	
PCB-98	0.9952	-	1.00	Co-elute PCB 102
PCB-102	0.9952	-	1.00	Co-elute PCB 98
PCB-95	0.8389	-	0.84	
PCB-93	0.7666	*	0.77	
PCB-88	0.8924	-	0.89	Co-elute PCB 91
PCB-91	0.8924	-	0.89	Co-elute PCB 88
PCB-121	1.1067	-	1.11	
13C-PCB-104	0.8812	-	0.88	
13C-PCB-28	1.3859	-	1.39	
13C-PCB-52	-	-	-	

PCB-56	0.9648	-	0.96	Co-elute PCB 60
PCB-60	0.9648	-	0.96	Co-elute PCB 56
PCB-79	1.0097	-	1.01	
PCB-78	0.9763	-	0.98	
PCB-81	1.0396	-	1.04	
13C-PCB-81	1.1364	-	1.14	
PCB-77	0.9819	-	0.98	
13C-PCB-77	1.1616	-	1.16	
PCB-155	1.1339	-	1.13	
PCB-150	1.1035	-	1.10	
PCB-152	1.0526	-	1.05	
PCB-145	1.0802	-	1.08	
PCB-136	1.0061	-	1.01	
PCB-148	0.8679	-	0.87	
PCB-154	0.9811	-	0.98	
13C-PCB-155	0.9032	-	0.90	
13C-PCB-111	1.2118	-	1.21	
13C-PCB-101	-	-	-	
PCB-84	0.7638	-	0.76	Co-elute PCB 92
PCB-92	0.7638	-	0.76	Co-elute PCB 84
PCB-89	0.7492	-	0.75	
PCB-90	0.8702	-	0.87	Co-elute PCB 101
PCB-101	0.8702	-	0.87	Co-elute PCB 90
PCB-113	0.9211	-	0.92	
PCB-99	1.0413	-	1.04	
PCB-119	1.1150	-	1.11	
PCB-83	0.8795	-	0.88	Co-elute PCB 112
PCB-112	0.8795	-	0.88	Co-elute PCB 83
PCB-109	1.0975	-	1.10	
PCB-97	0.9934	-	0.99	
PCB-86	0.8876	*	0.89	
PCB-125	0.9839	-	0.98	Co-elute PCB 87/117
PCB-87	0.9839	-	0.98	Co-elute PCB 125/117
PCB-117	0.9839	-	0.98	Co-elute PCB 125/87
PCB-111	1.2375	-	1.24	Co-elute PCB 115
PCB-115	1.2375	-	1.24	Co-elute PCB 111
PCB-85	0.9905	-	0.99	Co-elute PCB 116
PCB-116	0.9905	-	0.99	Co-elute PCB 85
PCB-120	1.1688	-	1.17	
PCB-110	1.2059	-	1.21	
PCB-82	0.6751	-	0.68	
PCB-124	1.0147	-	1.01	
PCB-108	0.9395	-	0.94	Co-elute PCB 107
PCB-107	0.9395	-	0.94	Co-elute PCB 108
PCB-123	1.2081	-	1.21	
13C-PCB-123	0.9644	-	0.96	
PCB-118	0.9248	-	0.92	Co-elute PCB 106
PCB-106	0.9248	-	0.92	Co-elute PCB 118
13C-PCB-118	1.0912	-	1.09	
PCB-114	0.9300	-	0.93	
13C-PCB-114	1.0391	-	1.04	
PCB-122	1.0869	-	1.09	
PCB-105	0.9930	-	0.99	
13C-PCB-105	1.0410	-	1.04	
PCB-127	0.9441	-	0.94	
PCB-126	1.0101	-	1.01	
13C-PCB-126	1.0388	-	1.04	

PCB-151	0.7299	-	0.73	
PCB-135	0.7887	-	0.79	
PCB-144	0.6957	-	0.70	
PCB-147	0.7935	-	0.79	
PCB-139	0.7923	-	0.79	Co-elute PCB 149
PCB-149	0.7923	-	0.79	Co-elute PCB 139
PCB-140	0.7871	-	0.79	
PCB-143	0.7365	*	0.74	Co-elute PCB 134
PCB-134	0.7365	*	0.74	Co-elute PCB 143
PCB-131	0.7406	-	0.74	Co-elute PCB 133
PCB-133	0.7406	-	0.74	Co-elute PCB 131
PCB-142	0.6650	-	0.67	
PCB-165	0.8668	-	0.87	Co-elute PCB 146
PCB-146	0.8668	-	0.87	Co-elute PCB 165
PCB-161	0.8172	-	0.82	Co-elute PCB 132
PCB-132	0.8172	-	0.82	Co-elute PCB 161
PCB-153	0.8805	-	0.88	
PCB-168	0.9988	-	1.00	
PCB-141	0.7582	-	0.76	
PCB-137	0.7289	-	0.73	
PCB-130	0.6916	-	0.69	
PCB-138	0.9900	-	0.99	Co-elute PCB 163/164
PCB-163	0.9900	-	0.99	Co-elute PCB 138/164
PCB-164	0.9900	-	0.99	Co-elute PCB 138/163
PCB-158	1.0166	-	1.02	Co-elute PCB 160
PCB-160	1.0166	-	1.02	Co-elute PCB 158
PCB-129	0.6464	-	0.65	
PCB-166	0.9617	-	0.96	
PCB-159	1.0450	-	1.05	
PCB-128	0.8555	-	0.86	Co-elute PCB 162
PCB-162	0.8555	-	0.86	Co-elute PCB 128
PCB-167	0.9337	-	0.93	
13C-PCB-167	1.1803	-	1.18	
PCB-156	0.9935	-	0.99	
13C-PCB-156	1.1451	-	1.15	
PCB-157	1.0235	-	1.02	
13C-PCB-157	1.1792	-	1.18	
PCB-169	0.9903	-	0.99	
13C-PCB-169	1.1032	-	1.10	
PCB-188	1.0840	-	1.08	
13C-PCB-188	1.1122	-	1.11	

PCB-184	1.1317	-	1.13	
PCB-179	1.0540	-	1.05	
PCB-176	1.0339	-	1.03	
PCB-186	1.0778	-	1.08	
PCB-178	0.7641	-	0.76	
PCB-175	0.7888	-	0.79	
PCB-187	0.8913	-	0.89	Co-elute PCB 182
PCB-182	0.8913	-	0.89	Co-elute PCB 187
PCB-183	0.8575	-	0.86	
PCB-185	0.8175	-	0.82	
PCB-174	0.7618	-	0.76	
PCB-181	0.8717	-	0.87	
PCB-177	0.7642	-	0.76	
PCB-171	0.7648	-	0.76	
PCB-173	0.7249	-	0.72	
PCB-172	0.7232	-	0.72	
PCB-192	1.0317	-	1.03	
PCB-180	0.9925	-	0.99	
PCB-193	1.0933	-	1.09	
PCB-191	1.0186	-	1.02	
PCB-170	0.7085	-	0.71	
PCB-190	0.9999	-	1.00	
PCB-189	1.0394	-	1.04	
13C-PCB-189	0.9990	-	1.00	
PCB-202	0.9485	-	0.95	
PCB-201	0.9380	-	0.94	
PCB-204	0.9172	-	0.92	
PCB-197	0.9957	-	1.00	
PCB-200	0.9318	-	0.93	
PCB-198	0.6233	-	0.62	
PCB-199	0.7511	-	0.75	
PCB-203	0.7523	-	0.75	Co-elute PCB 196
PCB-196	0.7523	-	0.75	Co-elute PCB 203
13C-PCB-202	0.8448	-	0.84	
13C-PCB-178	0.8619	-	0.86	
13C-PCB-138	-	-	-	
PCB-195	0.7418	-	0.74	
PCB-194	0.7674	-	0.77	
PCB-205	1.0200	-	1.02	
13C-PCB-205	1.1957	*	1.20	
PCB-208	0.9078	-	0.91	
13C-PCB-208	1.2283	*	1.23	
PCB-207	0.9320	*	0.93	
PCB-206	0.9572	-	0.96	
13C-PCB-206	0.8619	*	0.86	
PCB-209	1.0527	-	1.05	
13C-PCB-209	1.0195	*	1.02	
13C-PCB-194	-	-	-	

Analyst: _____ Date: 7/24/18

Run #1 Filename 23JUL18Z S: 2 Acquired: 23-JUL-18 15:45:50 Cal: DAILY209FAL4-7-23-18
Client ID: SS072318Z1 Analyte: FAL ID: Daily 209 171222A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	8.42e+07	3.07 y	14:35	-	0.958	
2	IS/RT	13C-PCB-1	100.00	1.76e+08	3.09 y	14:34	-	1.11	
3	Unk	PCB-2	50.00	8.00e+07	3.10 y	16:49	-	0.899	
4	Unk	PCB-3	50.00	8.47e+07	3.01 y	17:03	-	0.939	
5	IS/RT	13C-PCB-3	100.00	1.80e+08	3.16 y	17:01	-	1.14	
6	Unk	PCB-4	50.00	5.70e+07	1.45 y	18:16	-	1.19	
7	Unk	PCB-10	50.00	6.26e+07	1.45 y	18:20	-	0.977	
8	IS/RT	13C-PCB-4	100.00	9.59e+07	1.57 y	18:15	-	0.604	
9	Unk	PCB-9	50.00	7.39e+07	1.40 y	19:59	-	1.15	
10	Unk	PCB-7	50.00	7.58e+07	1.51 y	20:01	-	1.18	
11	Unk	PCB-6	50.00	7.34e+07	1.48 y	20:36	-	1.14	
12	Unk	PCB-8	50.00	6.62e+07	1.37 y	20:59	-	1.03	
13	Unk	PCB-5	50.00	8.25e+07	1.54 y	21:00	-	1.29	
14	Unk	PCB-14	50.00	7.30e+07	1.44 y	22:02	-	1.14	
15	Unk	PCB-11	50.00	6.99e+07	1.46 y	23:10	-	1.09	
16	Unk	PCB-13	50.00	7.36e+07	1.44 y	23:31	-	1.15	
17	Unk	PCB-12	50.00	7.52e+07	1.48 y	23:34	-	1.17	
18	Unk	PCB-15	50.00	8.33e+07	1.46 y	23:51	-	1.04	
19	IS/RT	13C-PCB-15	100.00	1.61e+08	1.57 y	23:49	-	1.01	
20	Unk	PCB-19	50.00	5.14e+07	1.05 y	22:10	-	1.04	
21	Unk	PCB-30	50.00	7.21e+07	1.05 y	23:01	-	1.46	
22	Unk	PCB-18	50.00	5.16e+07	1.05 y	23:44	-	1.05	
23	Unk	PCB-17	50.00	5.62e+07	1.06 y	23:54	-	1.14	
24	Unk	PCB-27	50.00	7.19e+07	1.06 y	24:26	-	1.46	
25	Unk	PCB-24	50.00	7.46e+07	1.01 y	24:27	-	1.51	
26	Unk	PCB-16	50.00	5.97e+07	1.01 y	24:54	-	1.21	
27	Unk	PCB-32	50.00	6.53e+07	1.11 y	24:56	-	1.32	
28	IS/RT	13C-PCB-19	100.00	9.86e+07	1.07 y	22:09	-	0.621	
29	RS	13C-PCB-9	100.00	1.59e+08	1.59 y	19:56	1.59e+06	-	
30	Unk	PCB-34	50.00	6.01e+07	1.02 y	25:41	-	0.837	
31	Unk	PCB-23	50.00	7.23e+07	1.05 y	25:46	-	1.01	
32	Unk	PCB-29	50.00	6.81e+07	1.05 y	26:01	-	0.948	
33	Unk	PCB-26	50.00	6.37e+07	1.04 y	26:13	-	0.886	
34	Unk	PCB-25	50.00	8.13e+07	1.05 y	26:22	-	1.13	
35	Unk	PCB-31	50.00	6.67e+07	1.03 y	26:43	-	0.929	
36	Unk	PCB-28	50.00	7.89e+07	1.02 y	26:48	-	1.10	
37	Unk	PCB-20	150.00	2.07e+08	1.04 y	27:24	-	0.960	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	2.07e+08	1.04 y	27:24	-	0.960	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	2.07e+08	1.04 y	27:24	-	0.960	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	7.21e+07	1.05 y	27:49	-	1.00	
41	Unk	PCB-36	50.00	6.71e+07	1.05 y	28:24	-	0.934	
42	Unk	PCB-39	50.00	6.96e+07	1.04 y	28:52	-	0.969	
43	Unk	PCB-38	50.00	6.99e+07	1.04 y	29:35	-	0.974	
44	Unk	PCB-35	50.00	6.60e+07	1.04 y	30:05	-	0.920	
45	Unk	PCB-37	50.00	7.71e+07	1.02 y	30:31	-	1.07	
46	IS	13C-PCB-37	100.00	1.44e+08	1.07 y	30:29	-	1.24	

47	Unk	PCB-54	100.00	1.29e+08	0.77 y	25:42	-	1.03	
48	Unk	PCB-50	100.00	9.56e+07	0.77 y	26:50	-	0.757	
49	Unk	PCB-53	100.00	9.65e+07	0.77 y	27:26	-	0.764	
50	Unk	PCB-51	100.00	1.03e+08	0.77 y	27:46	-	0.819	
51	Unk	PCB-45	100.00	8.76e+07	0.77 y	28:10	-	0.694	
52	Unk	PCB-46	100.00	8.24e+07	0.76 y	28:38	-	0.652	
53	Unk	PCB-52	200.00	2.65e+08	0.76 y	29:06	-	1.05	Co-elute PCB 69
54	Unk	PCB-69	200.00	2.65e+08	0.76 y	29:06	-	1.05	Co-elute PCB 52
55	Unk	PCB-73	100.00	1.14e+08	0.78 y	29:11	-	0.906	
56	Unk	PCB-43	200.00	2.00e+08	0.77 y	29:21	-	0.791	Co-elute PCB 49
57	Unk	PCB-49	200.00	2.00e+08	0.77 y	29:21	-	0.791	Co-elute PCB 43
58	Unk	PCB-47	100.00	1.22e+08	0.74 y	29:34	-	0.970	
59	Unk	PCB-48	200.00	2.51e+08	0.77 y	29:40	-	0.993	Co-elute PCB 75
60	Unk	PCB-75	200.00	2.51e+08	0.77 y	29:40	-	0.993	Co-elute PCB 48
61	Unk	PCB-65	100.00	1.20e+08	0.75 y	29:55	-	0.952	
62	Unk	PCB-62	100.00	1.39e+08	0.78 y	30:02	-	1.10	
63	Unk	PCB-44	100.00	9.58e+07	0.77 y	30:18	-	0.759	
64	Unk	PCB-42	200.00	2.54e+08	0.77 y	30:32	-	1.00	Co-elute PCB 59
65	Unk	PCB-59	200.00	2.54e+08	0.77 y	30:32	-	1.00	Co-elute PCB 42
66	Unk	PCB-72	400.00	5.32e+08	0.76 y	31:05	-	1.05	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	5.32e+08	0.76 y	31:05	-	1.05	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	5.32e+08	0.76 y	31:05	-	1.05	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	5.32e+08	0.76 y	31:05	-	1.05	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	1.45e+08	0.78 y	31:20	-	1.15	
71	Unk	PCB-40	100.00	8.41e+07	0.77 y	31:31	-	0.666	
72	Unk	PCB-57	100.00	1.37e+08	0.77 y	31:53	-	1.09	
73	Unk	PCB-67	100.00	1.51e+08	0.75 y	32:11	-	1.19	
74	Unk	PCB-58	100.00	1.31e+08	0.77 y	32:17	-	1.04	
75	Unk	PCB-63	100.00	1.41e+08	0.78 y	32:26	-	1.12	
76	Unk	PCB-74	100.00	1.55e+08	0.84 y	32:42	-	1.23	
77	Unk	PCB-61	200.00	3.10e+08	0.74 y	32:54	-	1.23	Co-elute PCB 70
78	Unk	PCB-70	200.00	3.10e+08	0.74 y	32:54	-	1.23	Co-elute PCB 61
79	Unk	PCB-76	200.00	3.07e+08	0.77 y	33:06	-	1.22	Co-elute PCB 66
80	Unk	PCB-66	200.00	3.07e+08	0.77 y	33:06	-	1.22	Co-elute PCB 76
81	Unk	PCB-80	100.00	1.67e+08	0.77 y	33:20	-	1.32	
82	Unk	PCB-55	100.00	1.57e+08	0.78 y	33:37	-	1.25	
83	IS/RT	13C-PCB-54	100.00	1.26e+08	0.79 y	25:41	-	1.09	
84	Unk	PCB-104	100.00	1.16e+08	1.57 y	30:09	-	1.14	
85	Unk	PCB-96	100.00	1.06e+08	1.58 y	31:21	-	1.04	
86	Unk	PCB-103	100.00	9.15e+07	1.59 y	31:53	-	0.897	
87	Unk	PCB-100	100.00	9.40e+07	1.57 y	32:13	-	0.923	
88	Unk	PCB-94	100.00	8.06e+07	1.60 y	32:38	-	0.790	
89	Unk	PCB-98	200.00	2.03e+08	1.60 y	33:06	-	0.995	Co-elute PCB 102
90	Unk	PCB-102	200.00	2.03e+08	1.60 y	33:06	-	0.995	Co-elute PCB 98
91	Unk	PCB-95	100.00	8.55e+07	1.59 y	33:10	-	0.839	
92	Unk	PCB-93	100.00	7.81e+07	1.68 y	33:14	-	0.767	
93	Unk	PCB-88	200.00	1.82e+08	1.62 y	33:32	-	0.892	Co-elute PCB 91
94	Unk	PCB-91	200.00	1.82e+08	1.62 y	33:32	-	0.892	Co-elute PCB 88
95	Unk	PCB-121	100.00	1.13e+08	1.60 y	33:38	-	1.11	
96	IS	13C-PCB-104	100.00	1.02e+08	1.62 y	30:08	-	0.881	
97	C/Up	13C-PCB-28	100.00	1.60e+08	1.05 y	26:47	-	1.39	
98	RS	13C-PCB-52	100.00	1.16e+08	0.79 y	29:04	1.16e+06	-	
99	Unk	PCB-56	200.00	2.60e+08	0.75 y	34:05	-	0.965	Co-elute PCB 60
100	Unk	PCB-60	200.00	2.60e+08	0.75 y	34:05	-	0.965	Co-elute PCB 56

101	Unk	PCB-79	100.00	1.36e+08	0.77 y	35:07	-	-	1.01	
102	Unk	PCB-78	100.00	1.32e+08	0.76 y	35:47		-	0.976	
103	Unk	PCB-81	100.00	1.39e+08	0.76 y	36:17		-	1.04	
104	IS	13C-PCB-81	100.00	1.33e+08	0.79 y	36:16		-	1.14	
105	Unk	PCB-77	100.00	1.34e+08	0.77 y	36:51		-	0.982	
106	IS/RT	13C-PCB-77	100.00	1.36e+08	0.81 y	36:50		-	1.16	
107	Unk	PCB-155	100.00	1.20e+08	1.31 y	34:21		-	1.13	
108	Unk	PCB-150	100.00	1.17e+08	1.29 y	35:31		-	1.10	
109	Unk	PCB-152	100.00	1.11e+08	1.30 y	35:58		-	1.05	
110	Unk	PCB-145	100.00	1.14e+08	1.30 y	36:23		-	1.08	
111	Unk	PCB-136	100.00	1.07e+08	1.28 y	36:42		-	1.01	
112	Unk	PCB-148	100.00	9.19e+07	1.31 y	36:49		-	0.868	
113	Unk	PCB-154	100.00	1.04e+08	1.29 y	37:16		-	0.981	
114	IS	13C-PCB-155	100.00	1.06e+08	1.29 y	34:18		-	0.903	
115	C/Up	13C-PCB-111	100.00	1.42e+08	1.60 y	36:25		-	1.21	
116	RS	13C-PCB-101	100.00	1.17e+08	1.62 y	34:46	1.17e+06	-		
117	Unk	PCB-84	200.00	1.83e+08	1.56 y	34:24		-	0.764	Co-elute PCB 92
118	Unk	PCB-92	200.00	1.83e+08	1.56 y	34:24		-	0.764	Co-elute PCB 84
119	Unk	PCB-89	100.00	8.97e+07	1.60 y	34:36		-	0.749	
120	Unk	PCB-90	200.00	2.08e+08	1.55 y	34:46		-	0.870	Co-elute PCB 101
121	Unk	PCB-101	200.00	2.08e+08	1.55 y	34:46		-	0.870	Co-elute PCB 90
122	Unk	PCB-113	100.00	1.10e+08	1.55 y	35:00		-	0.921	
123	Unk	PCB-99	100.00	1.25e+08	1.58 y	35:06		-	1.04	
124	Unk	PCB-119	100.00	1.34e+08	1.68 y	35:31		-	1.11	
125	Unk	PCB-83	200.00	2.11e+08	1.51 y	35:40		-	0.880	Co-elute PCB 112
126	Unk	PCB-112	200.00	2.11e+08	1.51 y	35:40		-	0.880	Co-elute PCB 83
127	Unk	PCB-109	100.00	1.31e+08	1.57 y	35:50		-	1.10	
128	Unk	PCB-97	100.00	1.19e+08	1.58 y	36:00		-	0.993	
129	Unk	PCB-86	100.00	1.06e+08	1.66 y	36:12		-	0.888	
130	Unk	PCB-125	300.00	3.54e+08	1.54 y	36:17		-	0.984	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	3.54e+08	1.54 y	36:17		-	0.984	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	3.54e+08	1.54 y	36:17		-	0.984	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	2.96e+08	1.57 y	36:26		-	1.24	Co-elute PCB 115
134	Unk	PCB-115	200.00	2.96e+08	1.57 y	36:26		-	1.24	Co-elute PCB 111
135	Unk	PCB-85	200.00	2.37e+08	1.60 y	36:33		-	0.991	Co-elute PCB 116
136	Unk	PCB-116	200.00	2.37e+08	1.60 y	36:33		-	0.991	Co-elute PCB 85
137	Unk	PCB-120	100.00	1.40e+08	1.55 y	36:47		-	1.17	
138	Unk	PCB-110	100.00	1.44e+08	1.59 y	36:55		-	1.21	
139	Unk	PCB-82	100.00	8.09e+07	1.55 y	37:30		-	0.675	
140	Unk	PCB-124	100.00	1.22e+08	1.56 y	38:11		-	1.01	
141	Unk	PCB-108	200.00	2.25e+08	1.48 y	38:19		-	0.939	Co-elute PCB 107
142	Unk	PCB-107	200.00	2.25e+08	1.48 y	38:19		-	0.939	Co-elute PCB 108
143	Unk	PCB-123	100.00	1.35e+08	1.51 y	38:29		-	1.21	
144	IS	13C-PCB-123	100.00	1.12e+08	1.58 y	38:27		-	0.964	
145	Unk	PCB-118	200.00	2.34e+08	1.52 y	38:41		-	0.925	Co-elute PCB 106
146	Unk	PCB-106	200.00	2.34e+08	1.52 y	38:41		-	0.925	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	1.26e+08	1.58 y	38:37		-	1.09	
148	Unk	PCB-114	100.00	1.12e+08	1.49 y	39:15		-	0.930	
149	IS	13C-PCB-114	100.00	1.20e+08	1.58 y	39:15		-	1.04	
150	Unk	PCB-122	100.00	1.30e+08	1.53 y	39:22		-	1.09	
151	Unk	PCB-105	100.00	1.20e+08	1.54 y	40:05		-	0.993	
152	IS	13C-PCB-105	100.00	1.21e+08	1.57 y	40:03		-	1.04	
153	Unk	PCB-127	100.00	1.13e+08	1.57 y	40:24		-	0.944	
154	Unk	PCB-126	100.00	1.22e+08	1.53 y	42:13		-	1.01	
155	IS	13C-PCB-126	100.00	1.20e+08	1.60 y	42:11		-	1.04	

156	Unk	PCB-151	100.00	9.74e+07	1.26 y	37:53	-	0.730	
157	Unk	PCB-135	100.00	1.05e+08	1.23 y	38:06	-	0.789	
158	Unk	PCB-144	100.00	9.28e+07	1.26 y	38:13	-	0.696	
159	Unk	PCB-147	100.00	1.06e+08	1.26 y	38:19	-	0.793	
160	Unk	PCB-139	200.00	2.11e+08	1.24 y	38:34	-	0.792	Co-elute PCB 149
161	Unk	PCB-149	200.00	2.11e+08	1.24 y	38:34	-	0.792	Co-elute PCB 139
162	Unk	PCB-140	100.00	1.05e+08	1.26 y	38:46	-	0.787	
163	Unk	PCB-143	200.00	1.97e+08	1.25 y	39:09	-	0.736	Co-elute PCB 134
164	Unk	PCB-134	200.00	1.97e+08	1.25 y	39:09	-	0.736	Co-elute PCB 143
165	Unk	PCB-131	200.00	1.98e+08	1.24 y	39:27	-	0.741	Co-elute PCB 133
166	Unk	PCB-133	200.00	1.98e+08	1.24 y	39:27	-	0.741	Co-elute PCB 131
167	Unk	PCB-142	100.00	8.87e+07	1.25 y	39:35	-	0.665	
168	Unk	PCB-165	200.00	2.31e+08	1.24 y	39:48	-	0.867	Co-elute PCB 146
169	Unk	PCB-146	200.00	2.31e+08	1.24 y	39:48	-	0.867	Co-elute PCB 165
170	Unk	PCB-161	200.00	2.18e+08	1.25 y	40:03	-	0.817	Co-elute PCB 132
171	Unk	PCB-132	200.00	2.18e+08	1.25 y	40:03	-	0.817	Co-elute PCB 161
172	Unk	PCB-153	100.00	1.18e+08	1.24 y	40:13	-	0.881	
173	Unk	PCB-168	100.00	1.33e+08	1.25 y	40:24	-	0.999	
174	Unk	PCB-141	100.00	1.01e+08	1.26 y	40:54	-	0.758	
175	Unk	PCB-137	100.00	9.73e+07	1.22 y	41:15	-	0.729	
176	Unk	PCB-130	100.00	9.23e+07	1.27 y	41:22	-	0.692	
177	Unk	PCB-138	300.00	3.96e+08	1.24 y	41:43	-	0.990	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	3.96e+08	1.24 y	41:43	-	0.990	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	3.96e+08	1.24 y	41:43	-	0.990	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	2.71e+08	1.24 y	41:58	-	1.02	Co-elute PCB 160
181	Unk	PCB-160	200.00	2.71e+08	1.24 y	41:58	-	1.02	Co-elute PCB 158
182	Unk	PCB-129	100.00	8.63e+07	1.26 y	42:10	-	0.646	
183	Unk	PCB-166	100.00	1.28e+08	1.24 y	42:38	-	0.962	
184	Unk	PCB-159	100.00	1.39e+08	1.25 y	42:56	-	1.05	
185	Unk	PCB-128	200.00	2.28e+08	1.23 y	43:12	-	0.856	Co-elute PCB 162
186	Unk	PCB-162	200.00	2.28e+08	1.23 y	43:12	-	0.856	Co-elute PCB 128
187	Unk	PCB-167	100.00	1.28e+08	1.24 y	43:35	-	0.934	
188	IS	13C-PCB-167	100.00	1.37e+08	1.27 y	43:34	-	1.18	
189	Unk	PCB-156	100.00	1.32e+08	1.28 y	44:48	-	0.994	
190	IS	13C-PCB-156	100.00	1.33e+08	1.28 y	44:46	-	1.15	
191	Unk	PCB-157	100.00	1.40e+08	1.23 y	45:03	-	1.02	
192	IS	13C-PCB-157	100.00	1.37e+08	1.29 y	45:03	-	1.18	
193	Unk	PCB-169	100.00	1.27e+08	1.27 y	46:54	-	0.990	
194	IS	13C-PCB-169	100.00	1.28e+08	1.26 y	46:53	-	1.10	
195	Unk	PCB-188	100.00	1.40e+08	1.05 y	39:50	-	1.08	
196	IS	13C-PCB-188	100.00	1.29e+08	1.07 y	39:48	-	1.11	

197	Unk	PCB-184	100.00	1.38e+08	1.05 y	40:14	-	1.13	
198	Unk	PCB-179	100.00	1.29e+08	1.05 y	40:59	-	1.05	
199	Unk	PCB-176	100.00	1.26e+08	1.06 y	41:25	-	1.03	
200	Unk	PCB-186	100.00	1.32e+08	1.05 y	41:60	-	1.08	
201	Unk	PCB-178	100.00	9.34e+07	1.05 y	42:28	-	0.764	
202	Unk	PCB-175	100.00	9.65e+07	1.05 y	42:48	-	0.789	
203	Unk	PCB-187	200.00	2.18e+08	1.05 y	42:57	-	0.891	Co-elute PCB 182
204	Unk	PCB-182	200.00	2.18e+08	1.05 y	42:57	-	0.891	Co-elute PCB 187
205	Unk	PCB-183	100.00	1.05e+08	1.04 y	43:16	-	0.857	
206	Unk	PCB-185	100.00	1.00e+08	1.05 y	43:53	-	0.817	
207	Unk	PCB-174	100.00	9.32e+07	1.05 y	44:13	-	0.762	
208	Unk	PCB-181	100.00	1.07e+08	1.06 y	44:20	-	0.872	
209	Unk	PCB-177	100.00	9.35e+07	1.05 y	44:30	-	0.764	
210	Unk	PCB-171	100.00	9.35e+07	1.05 y	44:46	-	0.765	
211	Unk	PCB-173	100.00	8.86e+07	1.03 y	45:11	-	0.725	
212	Unk	PCB-172	100.00	8.84e+07	1.06 y	45:34	-	0.723	
213	Unk	PCB-192	100.00	1.26e+08	1.06 y	45:44	-	1.03	
214	Unk	PCB-180	100.00	1.21e+08	1.05 y	45:55	-	0.993	
215	Unk	PCB-193	100.00	1.34e+08	1.05 y	46:05	-	1.09	
216	Unk	PCB-191	100.00	1.25e+08	1.06 y	46:17	-	1.02	
217	Unk	PCB-170	100.00	8.66e+07	1.04 y	47:11	-	0.709	
218	Unk	PCB-190	100.00	1.22e+08	1.04 y	47:21	-	1.000	
219	Unk	PCB-189	100.00	1.20e+08	1.04 y	48:33	-	1.04	
220	IS	13C-PCB-189	100.00	1.16e+08	1.07 y	48:32	-	0.999	
221	Unk	PCB-202	150.00	1.39e+08	0.92 y	44:56	-	0.949	
222	Unk	PCB-201	150.00	1.38e+08	0.91 y	45:22	-	0.938	
223	Unk	PCB-204	150.00	1.35e+08	0.92 y	45:31	-	0.917	
224	Unk	PCB-197	150.00	1.46e+08	0.93 y	45:47	-	0.996	
225	Unk	PCB-200	150.00	1.37e+08	0.92 y	46:31	-	0.932	
226	Unk	PCB-198	150.00	9.15e+07	0.89 y	47:42	-	0.623	
227	Unk	PCB-199	150.00	1.10e+08	0.93 y	47:47	-	0.751	
228	Unk	PCB-203	300.00	2.21e+08	0.91 y	48:02	-	0.752	Co-elute PCB 196
229	Unk	PCB-196	300.00	2.21e+08	0.91 y	48:02	-	0.752	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	9.79e+07	0.92 y	44:54	-	0.845	
231	C/Up	13C-PCB-178	100.00	9.98e+07	1.08 y	42:26	-	0.862	
232	RS	13C-PCB-138	100.00	1.16e+08	1.28 y	41:40	1.16e+06	-	
233	Unk	PCB-195	150.00	1.11e+08	0.88 y	49:08	-	0.742	
234	Unk	PCB-194	150.00	1.15e+08	0.88 y	49:57	-	0.767	
235	Unk	PCB-205	150.00	1.53e+08	0.90 y	50:11	-	1.02	
236	IS	13C-PCB-205	100.00	1.00e+08	0.90 y	50:11	-	1.20	
237	Unk	PCB-208	150.00	1.40e+08	1.36 y	49:14	-	0.908	
238	IS	13C-PCB-208	100.00	1.03e+08	0.79 y	49:13	-	1.23	
239	Unk	PCB-207	150.00	1.22e+08	1.36 y	49:31	-	0.932	
240	Unk	PCB-206	150.00	1.03e+08	1.35 y	51:23	-	0.957	
241	IS	13C-PCB-206	100.00	7.21e+07	0.79 y	51:23	-	0.862	
242	Unk	PCB-209	150.00	1.35e+08	1.18 y	52:33	-	1.05	
243	IS	13C-PCB-209	100.00	8.52e+07	1.20 y	52:32	-	1.02	
244	RS	13C-PCB-194	100.00	8.36e+07	0.90 y	49:55	8.36e+05	-	

Analyst: _____ Date: 7/24/18

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/23/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 23JUL18Z Sam:1 Analysis Date: 23-JUL-18 14:47:30

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.08	2.66-3.60	y	49.1	37.5 - 62.5
PCB-3	M/M+2	3.13	2.66-3.60	y	51.1	37.5 - 62.5
PCB-4	M/M+2	1.40	1.33-1.79	y	43.4	37.5 - 62.5
PCB-15	M/M+2	1.41	1.33-1.79	y	48.3	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	52.7	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	47.0	37.5 - 62.5
PCB-54	M/M+2	0.77	0.65-0.89	y	50.9	37.5 - 62.5
PCB-77	M/M+2	0.75	0.65-0.89	y	50.9	37.5 - 62.5
PCB-81	M/M+2	0.76	0.65-0.89	y	50.3	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	49.1	37.5 - 62.5
PCB-105	M+2/M+4	1.51	1.32-1.78	y	49.9	37.5 - 62.5
PCB-114	M+2/M+4	1.52	1.32-1.78	y	53.7	37.5 - 62.5
PCB-118	M+2/M+4	1.48	1.32-1.78	y	56.5	37.5 - 62.5
PCB-123	M+2/M+4	1.61	1.32-1.78	y	42.3	37.5 - 62.5
PCB-126	M+2/M+4	1.55	1.32-1.78	y	48.1	37.5 - 62.5
PCB-155	M+2/M+4	1.29	1.05-1.43	y	50.9	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	51.2	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	48.0	37.5 - 62.5
PCB-167	M+2/M+4	1.22	1.05-1.43	y	52.3	37.5 - 62.5
PCB-169	M+2/M+4	1.25	1.05-1.43	y	52.2	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	47.0	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	50.6	37.5 - 62.5
PCB-202	M+2/M+4	0.91	0.76-1.02	y	54.4	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	51.9	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	48.7	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	52.1	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	55.5	37.5 - 62.5

Analyst: [signature] Date: 7/24/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/23/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 23JUL18Z Sam:1 Analysis Date: 23-JUL-18 14:47:30

	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	3.04	2.66-3.60	y	112	50.0 - 145
13C-PCB-3	M/M+2	3.20	2.66-3.60	y	109	50.0 - 145
13C-PCB-4	M/M+2	1.55	1.33-1.79	y	105	50.0 - 145
13C-PCB-15	M/M+2	1.58	1.33-1.79	y	105	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	105	50.0 - 145
13C-PCB-37	M/M+2	1.04	0.88-1.20	y	102	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	112	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	99.0	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	98.3	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	117	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	104	50.0 - 145
13C-PCB-114	M+2/M+4	1.56	1.32-1.78	y	105	50.0 - 145
13C-PCB-118	M+2/M+4	1.59	1.32-1.78	y	107	50.0 - 145
13C-PCB-123	M+2/M+4	1.56	1.32-1.78	y	102	50.0 - 145
13C-PCB-126	M+2/M+4	1.59	1.32-1.78	y	102	50.0 - 145
13C-PCB-155	M+2/M+4	1.31	1.05-1.43	y	108	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	105	50.0 - 145
13C-PCB-157	M+2/M+4	1.26	1.05-1.43	y	104	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	106	50.0 - 145
13C-PCB-169	M+2/M+4	1.28	1.05-1.43	y	100.0	50.0 - 145
13C-PCB-188	M+2/M+4	1.05	0.89-1.21	y	117	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	98.6	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	110	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	107	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	118	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	113	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	99.5	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	96.3	65.0 - 135
13C-PCB-111	M+2/M+4	1.62	1.32-1.78	y	101	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	101	75.0 - 125

Analyst: _____ Date: 7/24/18

FAL ID: ST072318Z1 Filename: 23JUL18Z Sam:1 Acquired: 23-JUL-18 14:47:30 ICal: DAILY209FAL4-7-23-18
Client ID: 1668 CS3 170805A ConCal: ST072318Z1 EndCal: ST072318Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	5.35e+07	3.08 y	14:36	0.96	49.1		2.50	-	-	*	
13C-PCB-1	1.14e+08	3.04 y	14:35	1.11	112		2.50				112
PCB-3	5.47e+07	3.13 y	17:03	0.94	51.1		2.50	-	-	*	
13C-PCB-3	1.14e+08	3.20 y	17:02	1.14	109		2.50				109
PCB-4	2.99e+07	1.40 y	18:17	1.19	43.4		2.50	-	-	*	
13C-PCB-4	5.81e+07	1.55 y	18:17	0.60	105		2.50				105
PCB-15	4.87e+07	1.41 y	23:52	1.04	48.3		2.50	-	-	*	
13C-PCB-15	9.72e+07	1.58 y	23:50	1.01	105		2.50				105
PCB-19	3.30e+07	1.06 y	22:11	1.04	52.7		2.50	-	-	*	
13C-PCB-19	6.00e+07	1.09 y	22:10	0.62	105		2.50				105
13C-PCB-9	9.19e+07	1.56 y	19:57	-	57.9		2.50				
PCB-37	4.05e+07	1.05 y	30:31	1.07	47.0		2.50	-	-	*	
13C-PCB-37	8.03e+07	1.04 y	30:31	1.24	102		2.50				102
PCB-54	4.04e+07	0.77 y	25:44	1.03	50.9		2.50	-	-	*	
13C-PCB-54	7.74e+07	0.79 y	25:43	1.09	112		2.50				112
PCB-104	3.66e+07	1.59 y	30:11	1.14	49.1		2.50	-	-	*	
13C-PCB-104	6.53e+07	1.60 y	30:09	0.88	117		2.50				117
13C-PCB-28	8.43e+07	1.04 y	26:48	1.39	96.3		2.50				96.3
13C-PCB-52	6.31e+07	0.77 y	29:05	-	54.6		2.50				
PCB-81	3.65e+07	0.76 y	36:18	1.04	50.3		2.50	-	-	*	
13C-PCB-81	6.99e+07	0.80 y	36:17	1.14	98.3		2.50				98.3
PCB-77	3.60e+07	0.75 y	36:52	0.98	50.9		2.50	-	-	*	
13C-PCB-77	7.20e+07	0.81 y	36:51	1.16	99.0		2.50				99.0
PCB-155	3.53e+07	1.29 y	34:21	1.13	50.9		2.50	-	-	*	
13C-PCB-155	6.12e+07	1.31 y	34:19	0.90	108		2.50				108
13C-PCB-111	7.64e+07	1.62 y	36:26	1.21	101		2.50				101
13C-PCB-101	6.25e+07	1.60 y	34:47	-	53.3		2.50				
PCB-123	2.90e+07	1.61 y	38:29	1.21	42.3		2.50	-	-	*	
13C-PCB-123	5.67e+07	1.56 y	38:28	0.96	102		2.50				102
PCB-118	3.50e+07	1.48 y	38:41	0.92	56.5		2.50	-	-	*	
13C-PCB-118	6.71e+07	1.59 y	38:39	1.09	107		2.50				107
PCB-114	3.11e+07	1.52 y	39:17	0.93	53.7		2.50	-	-	*	
13C-PCB-114	6.24e+07	1.56 y	39:15	1.04	105		2.50				105
PCB-105	3.09e+07	1.51 y	40:06	0.99	49.9		2.50	-	-	*	
13C-PCB-105	6.23e+07	1.59 y	40:05	1.04	104		2.50				104
PCB-126	2.96e+07	1.55 y	42:15	1.01	48.1		2.50	-	-	*	
13C-PCB-126	6.09e+07	1.59 y	42:13	1.04	102		2.50				102
PCB-167	3.49e+07	1.22 y	43:35	0.93	52.3		2.50	-	-	*	
13C-PCB-167	7.16e+07	1.26 y	43:35	1.18	106		2.50				106
PCB-156	3.51e+07	1.27 y	44:50	0.99	51.2		2.50	-	-	*	
13C-PCB-156	6.91e+07	1.28 y	44:48	1.15	105		2.50				105
PCB-157	3.47e+07	1.24 y	45:04	1.02	48.0		2.50	-	-	*	
13C-PCB-157	7.07e+07	1.26 y	45:03	1.18	104		2.50				104
PCB-169	3.28e+07	1.25 y	46:56	0.99	52.2		2.50	-	-	*	
13C-PCB-169	6.33e+07	1.28 y	46:55	1.10	100.0		2.50				100.0
PCB-188	3.82e+07	1.06 y	39:50	1.08	47.0		2.50	-	-	*	
13C-PCB-188	7.49e+07	1.05 y	39:50	1.11	117		2.50				117
PCB-189	2.97e+07	1.05 y	48:33	1.04	50.6		2.50	-	-	*	
13C-PCB-189	5.65e+07	1.06 y	48:33	1.00	98.6		2.50				98.6
PCB-202	2.74e+07	0.91 y	44:58	0.95	54.4		2.50	-	-	*	
13C-PCB-202	5.32e+07	0.91 y	44:56	0.84	110		2.50				110
13C-PCB-178	5.02e+07	1.07 y	42:28	0.86	101		2.50				101
13C-PCB-138	5.74e+07	1.28 y	41:42	-	49.6		2.50				

FAL ID: ST072318Z1 Filename: 23JUL18Z Sam:1 Acquired: 23-JUL-18 14:47:30 ICal: DAILY209FAL4-7-23-18 2 of 2
Client ID: 1668 CS3 170805A ConCal: ST072318Z1 EndCal: ST072318Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	2.56e+07	0.89	y	50:12	1.02	51.9	2.50	-	-	*	
13C-PCB-205	4.83e+07	0.90	y	50:11	1.20	107	2.50				107
PCB-208	2.48e+07	1.36	y	49:15	0.91	52.1	2.50	-	-	*	
13C-PCB-208	5.24e+07	0.81	y	49:15	1.23	113	2.50				113
PCB-206	1.79e+07	1.35	y	51:24	0.96	48.7	2.50	-	-	*	
13C-PCB-206	3.85e+07	0.79	y	51:23	0.86	118	2.50				118
PCB-209	2.24e+07	1.18	y	52:34	1.05	55.5	2.50	-	-	*	
13C-PCB-209	3.83e+07	1.20	y	52:34	1.02	99.5	2.50				99.5
13C-PCB-194	3.77e+07	0.91	y	49:56	-	45.1	2.50				

Analyst: _____ Date: 7/24/18

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/23/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 23JUL18Z Sam:15 Analysis Date: 24-JUL-18 04:26:09

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.11	2.66-3.60	y	48.0	37.5 - 62.5
PCB-3	M/M+2	3.08	2.66-3.60	y	49.8	37.5 - 62.5
PCB-4	M/M+2	1.47	1.33-1.79	y	43.1	37.5 - 62.5
PCB-15	M/M+2	1.51	1.33-1.79	y	46.8	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	50.1	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	48.0	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	50.8	37.5 - 62.5
PCB-77	M/M+2	0.77	0.65-0.89	y	50.4	37.5 - 62.5
PCB-81	M/M+2	0.77	0.65-0.89	y	50.7	37.5 - 62.5
PCB-104	M+2/M+4	1.61	1.32-1.78	y	50.8	37.5 - 62.5
PCB-105	M+2/M+4	1.51	1.32-1.78	y	49.4	37.5 - 62.5
PCB-114	M+2/M+4	1.53	1.32-1.78	y	53.0	37.5 - 62.5
PCB-118	M+2/M+4	1.54	1.32-1.78	y	55.6	37.5 - 62.5
PCB-123	M+2/M+4	1.55	1.32-1.78	y	41.8	37.5 - 62.5
PCB-126	M+2/M+4	1.51	1.32-1.78	y	48.2	37.5 - 62.5
PCB-155	M+2/M+4	1.30	1.05-1.43	y	50.2	37.5 - 62.5
PCB-156	M+2/M+4	1.23	1.05-1.43	y	50.2	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	47.2	37.5 - 62.5
PCB-167	M+2/M+4	1.22	1.05-1.43	y	52.9	37.5 - 62.5
PCB-169	M+2/M+4	1.22	1.05-1.43	y	49.3	37.5 - 62.5
PCB-188	M+2/M+4	1.04	0.89-1.21	y	47.1	37.5 - 62.5
PCB-189	M+2/M+4	1.04	0.89-1.21	y	51.5	37.5 - 62.5
PCB-202	M+2/M+4	0.91	0.76-1.02	y	57.1	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	50.0	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	47.2	37.5 - 62.5
PCB-208	M+4/M+6	1.37	1.13-1.53	y	48.6	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	52.0	37.5 - 62.5

Analyst: [signature] Date: 7/24/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/23/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 23JUL18Z Sam:15 Analysis Date: 24-JUL-18 04:26:09

	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	3.09	2.66-3.60	y	103	50.0 - 145
13C-PCB-3	M/M+2	3.14	2.66-3.60	y	101	50.0 - 145
13C-PCB-4	M/M+2	1.54	1.33-1.79	y	99.2	50.0 - 145
13C-PCB-15	M/M+2	1.58	1.33-1.79	y	98.5	50.0 - 145
13C-PCB-19	M/M+2	1.06	0.88-1.20	y	110	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	102	50.0 - 145
13C-PCB-54	M/M+2	0.78	0.65-0.89	y	119	50.0 - 145
13C-PCB-77	M/M+2	0.78	0.65-0.89	y	96.7	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	92.7	50.0 - 145
13C-PCB-104	M+2/M+4	1.64	1.32-1.78	y	117	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	100	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	101	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	101	50.0 - 145
13C-PCB-123	M+2/M+4	1.57	1.32-1.78	y	106	50.0 - 145
13C-PCB-126	M+2/M+4	1.59	1.32-1.78	y	99.1	50.0 - 145
13C-PCB-155	M+2/M+4	1.31	1.05-1.43	y	116	50.0 - 145
13C-PCB-156	M+2/M+4	1.27	1.05-1.43	y	106	50.0 - 145
13C-PCB-157	M+2/M+4	1.25	1.05-1.43	y	107	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	106	50.0 - 145
13C-PCB-169	M+2/M+4	1.25	1.05-1.43	y	114	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	119	50.0 - 145
13C-PCB-189	M+2/M+4	1.05	0.89-1.21	y	117	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	104	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	112	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	131	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	123	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	136	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	94.7	65.0 - 135
13C-PCB-111	M+2/M+4	1.59	1.32-1.78	y	103	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	100	75.0 - 125

Analyst: [signature] Date: 7/24/18

FAL ID: ST072318Z2 Filename: 23JUL18Z Sam:15 Acquired: 24-JUL-18 04:26:09 ICal: DAILY209FAL4-7-23-18
Client ID: 1668 CS3 170805A ConCal: ST072318Z1 EndCal: ST072318Z2
Results: 11592-3 GC Column: DB1MS Amount: 1.000

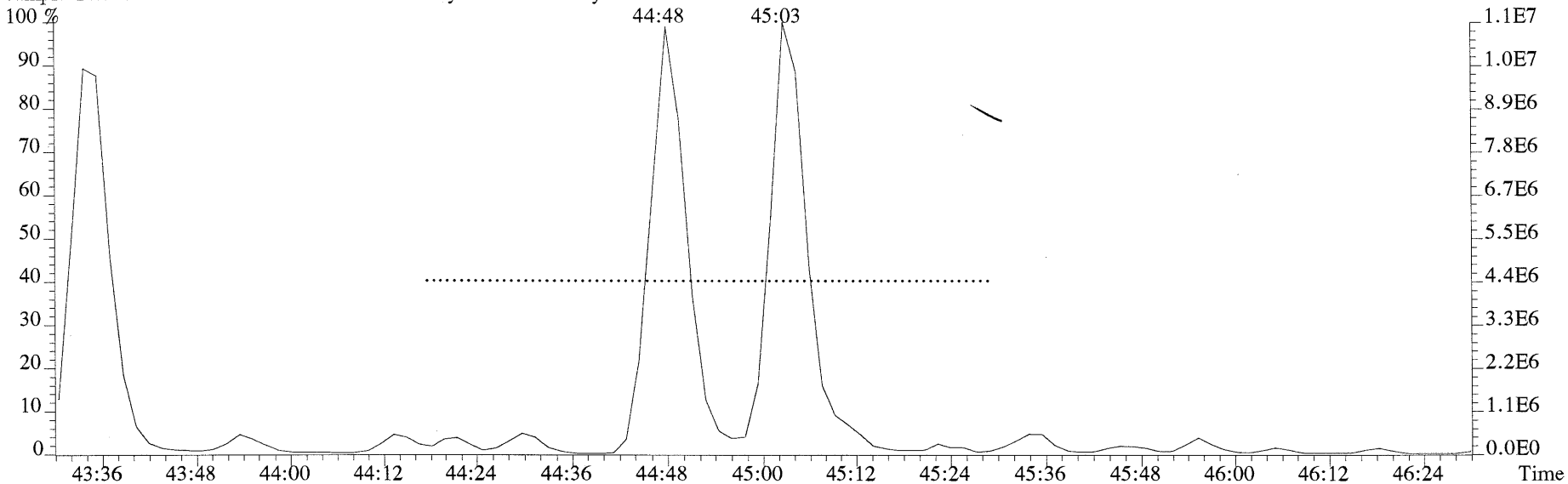
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.56e+07	3.11 y	14:35	0.96	48.0		2.50	-	-	*	
13C-PCB-1	7.74e+07	3.09 y	14:34	1.11	103		2.50				103
PCB-3	3.63e+07	3.08 y	17:02	0.94	49.8		2.50	-	-	*	
13C-PCB-3	7.77e+07	3.14 y	17:01	1.14	101		2.50				101
PCB-4	2.08e+07	1.47 y	18:16	1.19	43.1		2.50	-	-	*	
13C-PCB-4	4.06e+07	1.54 y	18:15	0.60	99.2		2.50				99.2
PCB-15	3.28e+07	1.51 y	23:49	1.04	46.8		2.50	-	-	*	
13C-PCB-15	6.74e+07	1.58 y	23:48	1.01	98.5		2.50				98.5
PCB-19	2.41e+07	1.04 y	22:09	1.04	50.1		2.50	-	-	*	
13C-PCB-19	4.62e+07	1.06 y	22:08	0.62	110		2.50				110
13C-PCB-9	6.77e+07	1.55 y	19:56	-	42.6		2.50				
PCB-37	2.88e+07	1.05 y	30:28	1.07	48.0		2.50	-	-	*	
13C-PCB-37	5.60e+07	1.06 y	30:27	1.24	102		2.50				102
PCB-54	3.00e+07	0.78 y	25:41	1.03	50.8		2.50	-	-	*	
13C-PCB-54	5.75e+07	0.78 y	25:40	1.09	119		2.50				119
PCB-104	2.66e+07	1.61 y	30:08	1.14	50.8		2.50	-	-	*	
13C-PCB-104	4.58e+07	1.64 y	30:07	0.88	117		2.50				117
13C-PCB-28	5.82e+07	1.05 y	26:46	1.39	94.7		2.50				94.7
13C-PCB-52	4.43e+07	0.78 y	29:02	-	38.3		2.50				
PCB-81	2.48e+07	0.77 y	36:14	1.04	50.7		2.50	-	-	*	
13C-PCB-81	4.70e+07	0.79 y	36:14	1.14	92.7		2.50				92.7
PCB-77	2.48e+07	0.77 y	36:49	0.98	50.4		2.50	-	-	*	
13C-PCB-77	5.01e+07	0.78 y	36:47	1.16	96.7		2.50				96.7
PCB-155	2.66e+07	1.30 y	34:18	1.13	50.2		2.50	-	-	*	
13C-PCB-155	4.67e+07	1.31 y	34:17	0.90	116		2.50				116
13C-PCB-111	5.58e+07	1.59 y	36:23	1.21	103		2.50				103
13C-PCB-101	4.46e+07	1.62 y	34:43	-	38.0		2.50				
PCB-123	2.10e+07	1.55 y	38:26	1.21	41.8		2.50	-	-	*	
13C-PCB-123	4.15e+07	1.57 y	38:24	0.96	106		2.50				106
PCB-118	2.29e+07	1.54 y	38:37	0.92	55.6		2.50	-	-	*	
13C-PCB-118	4.46e+07	1.58 y	38:36	1.09	101		2.50				101
PCB-114	2.10e+07	1.53 y	39:14	0.93	53.0		2.50	-	-	*	
13C-PCB-114	4.27e+07	1.61 y	39:12	1.04	101		2.50				101
PCB-105	2.08e+07	1.51 y	40:03	0.99	49.4		2.50	-	-	*	
13C-PCB-105	4.24e+07	1.59 y	40:01	1.04	100		2.50				100
PCB-126	2.03e+07	1.51 y	42:11	1.01	48.2		2.50	-	-	*	
13C-PCB-126	4.17e+07	1.59 y	42:10	1.04	99.1		2.50				99.1
PCB-167	2.50e+07	1.22 y	43:32	0.93	52.9		2.50	-	-	*	
13C-PCB-167	5.06e+07	1.26 y	43:32	1.18	106		2.50				106
PCB-156	2.45e+07	1.23 y	44:46	0.99	50.2		2.50	-	-	*	
13C-PCB-156	4.92e+07	1.27 y	44:44	1.15	106		2.50				106
PCB-157	2.47e+07	1.24 y	45:01	1.02	47.2		2.50	-	-	*	
13C-PCB-157	5.11e+07	1.25 y	44:59	1.18	107		2.50				107
PCB-169	2.50e+07	1.22 y	46:53	0.99	49.3		2.50	-	-	*	
13C-PCB-169	5.12e+07	1.25 y	46:53	1.10	114		2.50				114
PCB-188	2.75e+07	1.04 y	39:48	1.08	47.1		2.50	-	-	*	
13C-PCB-188	5.38e+07	1.06 y	39:46	1.11	119		2.50				119
PCB-189	2.53e+07	1.04 y	48:32	1.04	51.5		2.50	-	-	*	
13C-PCB-189	4.73e+07	1.05 y	48:32	1.00	117		2.50				117
PCB-202	1.93e+07	0.91 y	44:54	0.95	57.1		2.50	-	-	*	
13C-PCB-202	3.56e+07	0.92 y	44:53	0.84	104		2.50				104
13C-PCB-178	3.51e+07	1.06 y	42:24	0.86	100		2.50				100
13C-PCB-138	4.06e+07	1.25 y	41:38	-	35.0		2.50				

FAL ID: ST072318Z2 Filename: 23JUL18Z Sam:15 Acquired: 24-JUL-18 04:26:09 ICal: DAILY209FAL4-7-23-18 2 of 2
Client ID: 1668 CS3 170805A ConCal: ST072318Z1 EndCal: ST072318Z2
Results: 11592-3 GC Column: DB1MS Amount: 1.000

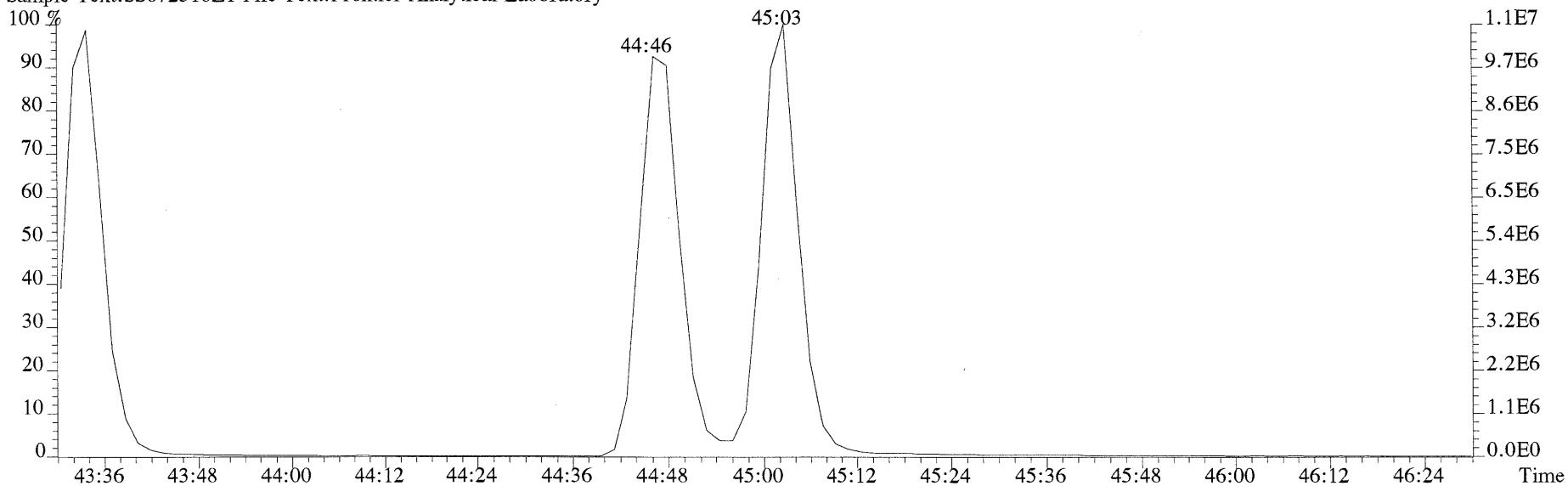
PCB-205	1.89e+07	0.90	y	50:11	1.02	50.0	2.50	-	-	*	
13C-PCB-205	3.71e+07	0.89	y	50:10	1.20	112	2.50				112
PCB-208	1.85e+07	1.37	y	49:13	0.91	48.6	2.50	-	-	*	
13C-PCB-208	4.19e+07	0.80	y	49:12	1.23	123	2.50				123
PCB-206	1.41e+07	1.35	y	51:21	0.96	47.2	2.50	-	-	*	
13C-PCB-206	3.12e+07	0.79	y	51:20	0.86	131	2.50				131
PCB-209	2.11e+07	1.19	y	52:33	1.05	52.0	2.50	-	-	*	
13C-PCB-209	3.86e+07	1.20	y	52:32	1.02	136	2.50				136
13C-PCB-194	2.77e+07	0.90	y	49:54	-	33.2	2.50				

Analyst: _____ Date: 7/24/18

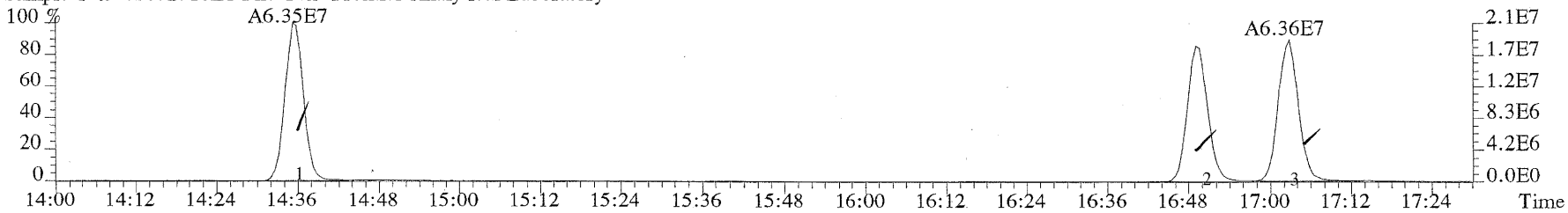
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



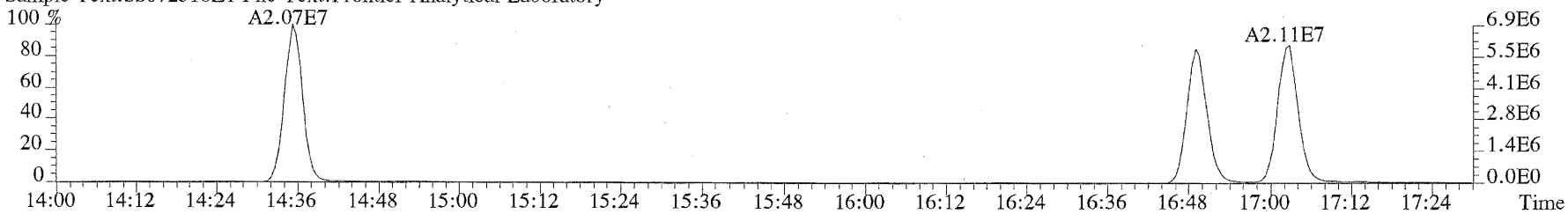
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



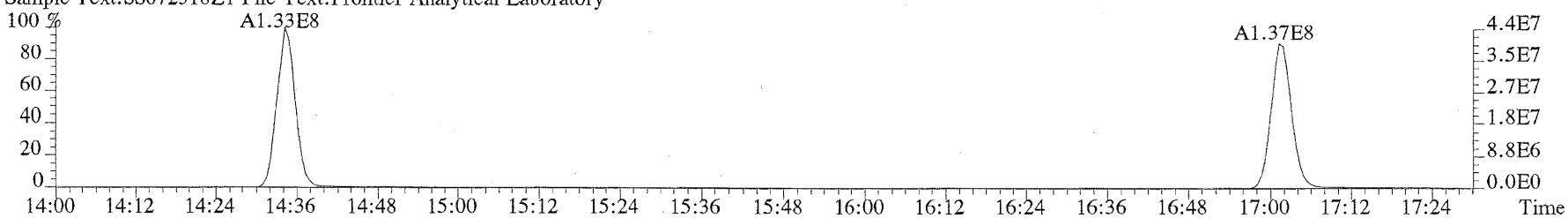
File:23JUL18Z #1-783 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



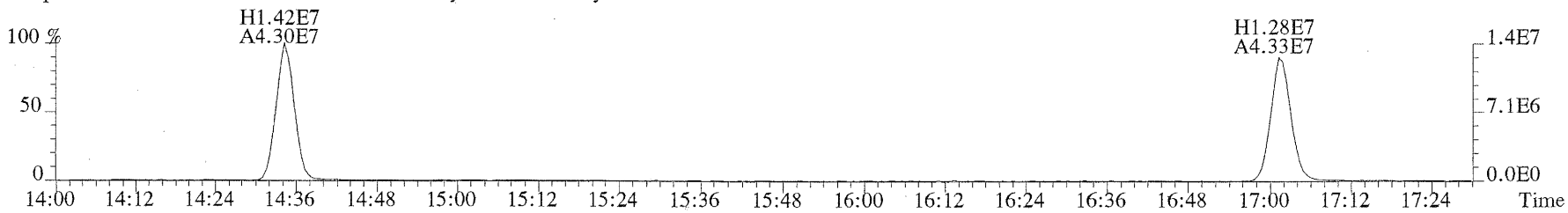
File:23JUL18Z #1-783 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



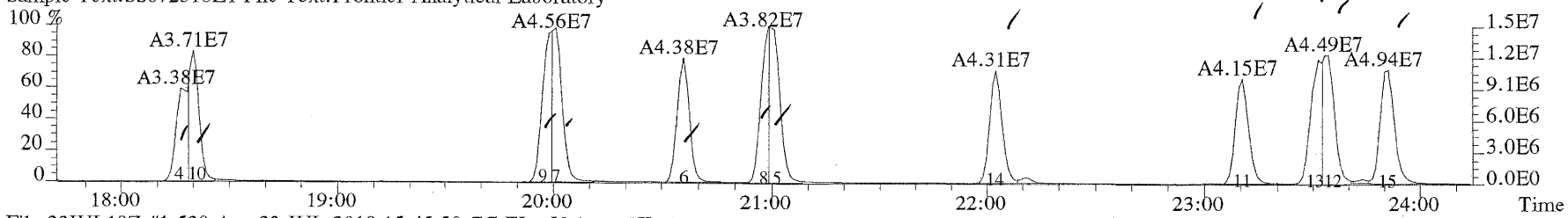
File:23JUL18Z #1-783 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



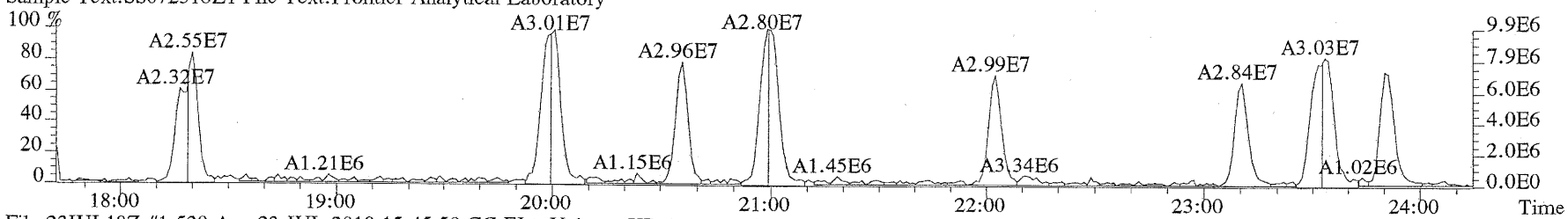
File:23JUL18Z #1-783 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



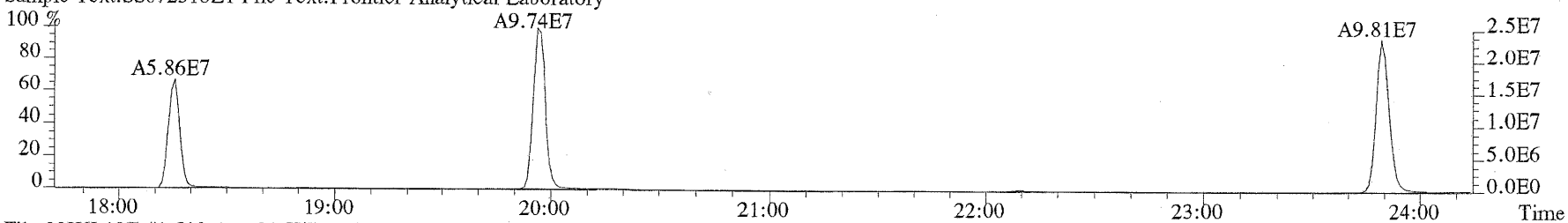
File:23JUL18Z #1-520 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



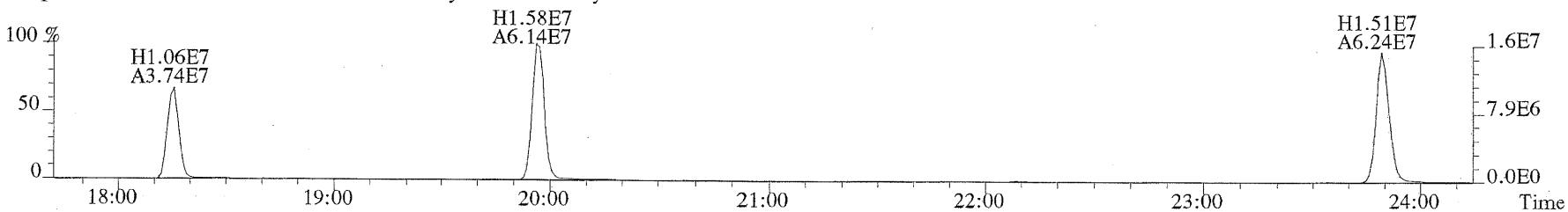
File:23JUL18Z #1-520 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



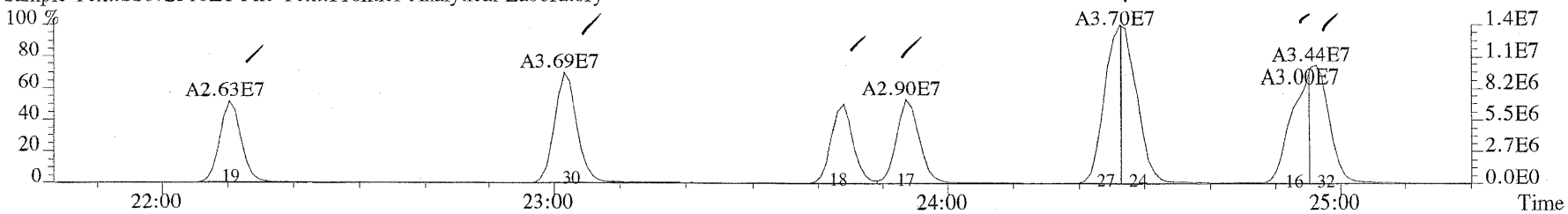
File:23JUL18Z #1-520 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



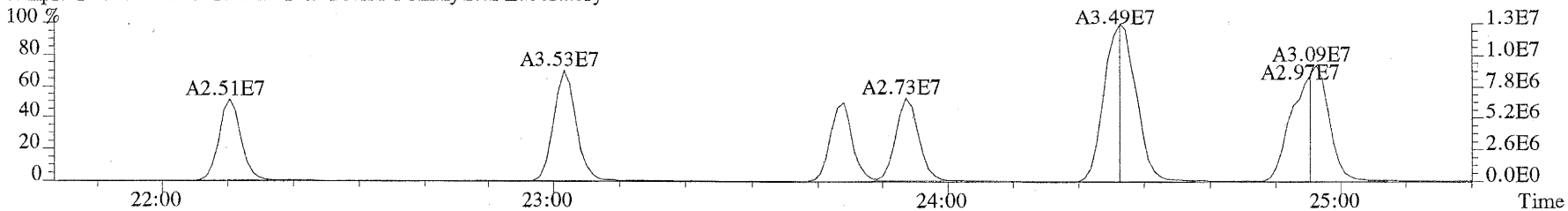
File:23JUL18Z #1-520 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



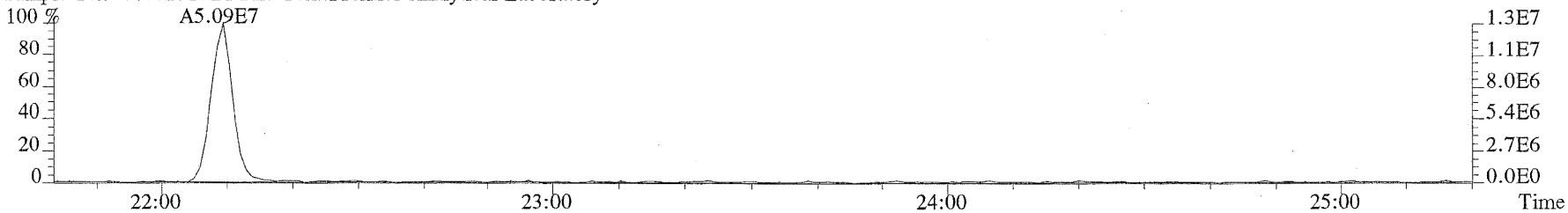
File:23JUL18Z #1-520 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



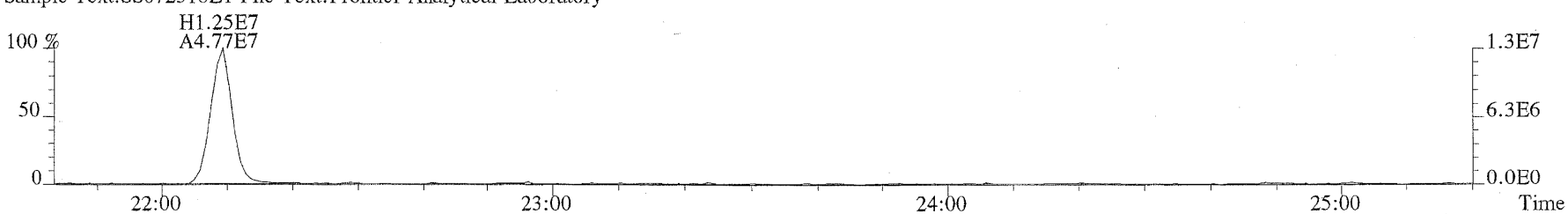
File:23JUL18Z #1-520 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



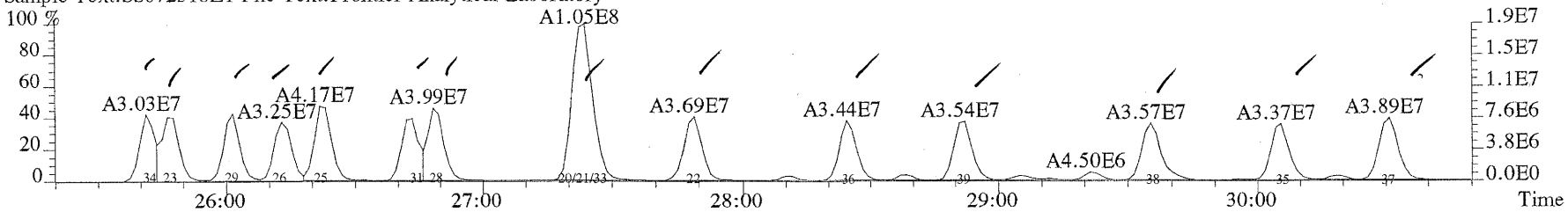
File:23JUL18Z #1-520 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



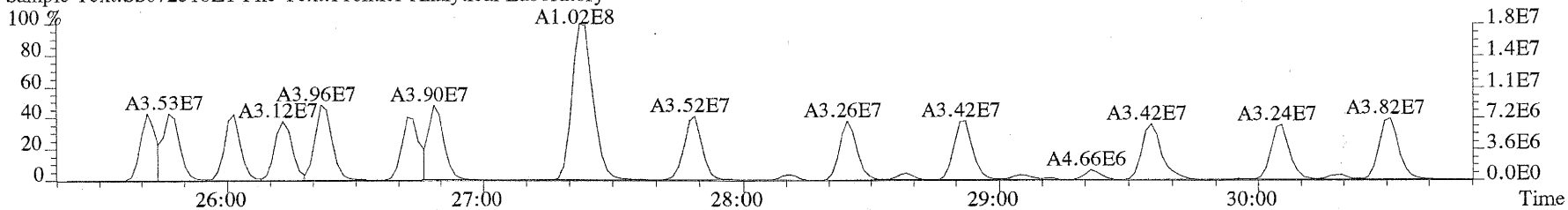
File:23JUL18Z #1-520 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



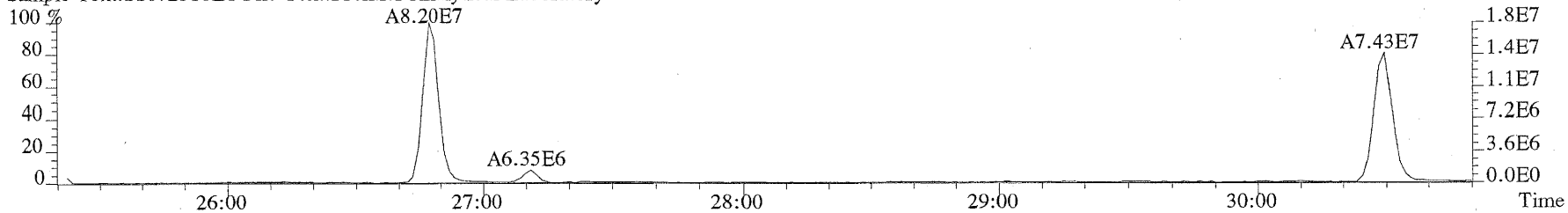
File:23JUL18Z #1-402 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



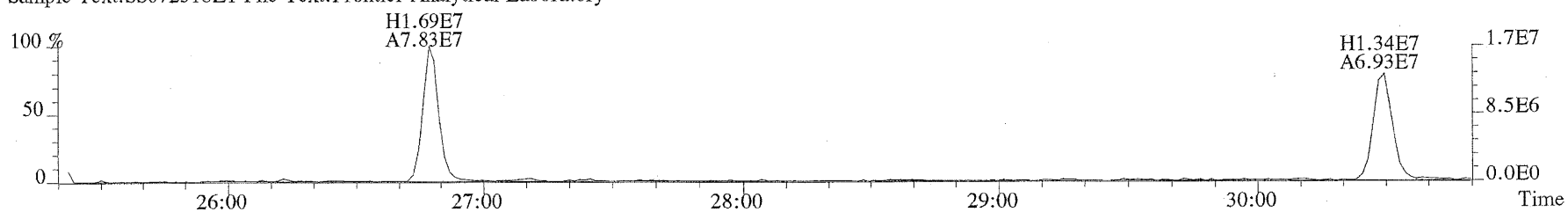
File:23JUL18Z #1-402 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



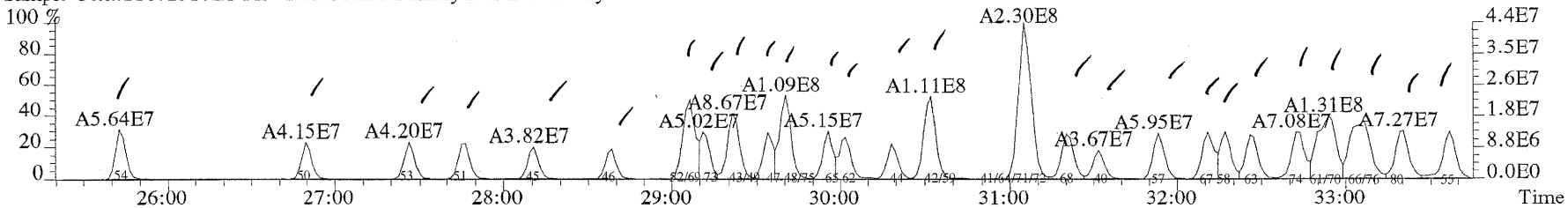
File:23JUL18Z #1-402 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



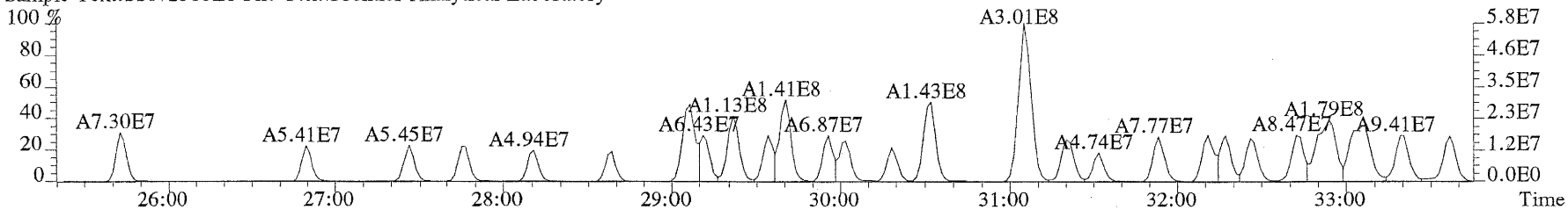
File:23JUL18Z #1-402 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



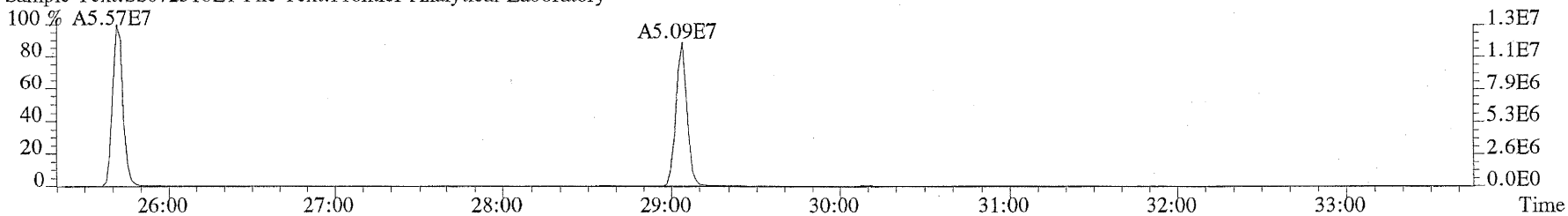
File:23JUL18Z #1-402 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



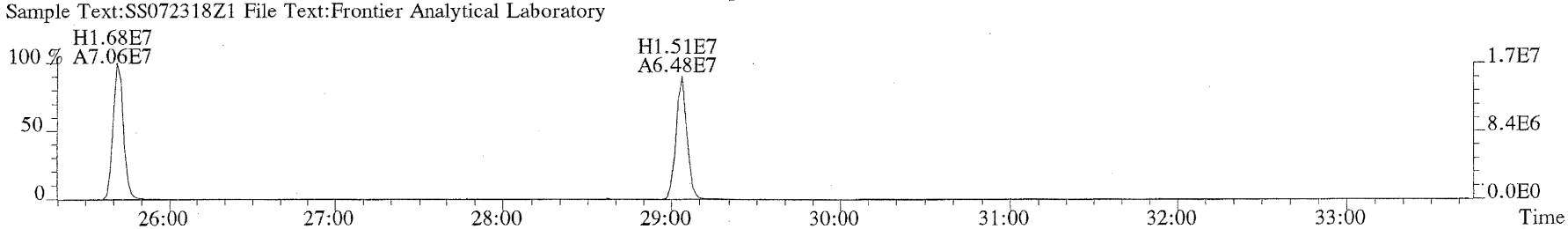
File:23JUL18Z #1-402 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



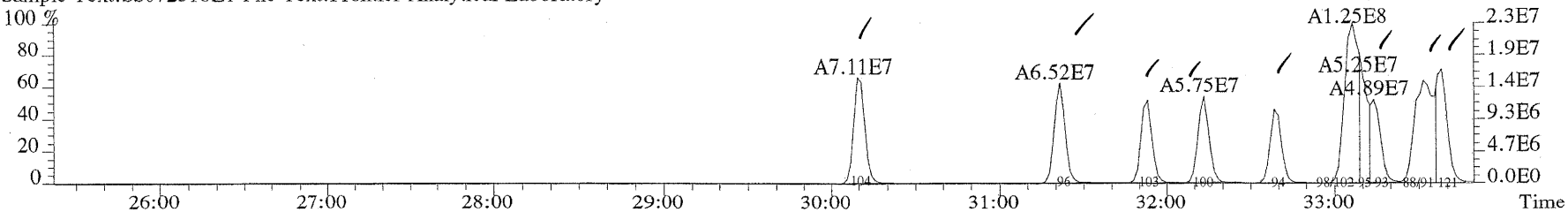
File:23JUL18Z #1-402 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



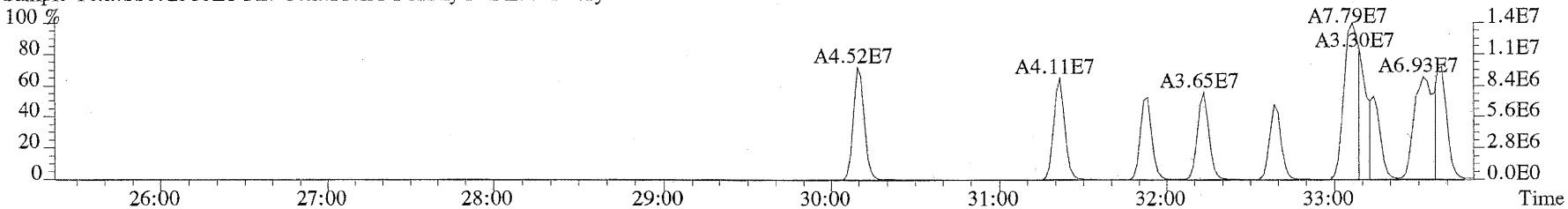
File:23JUL18Z #1-402 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



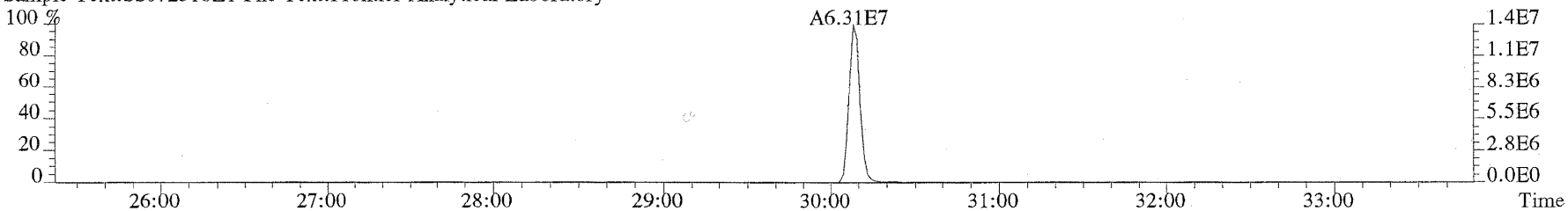
File:23JUL18Z #1-402 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



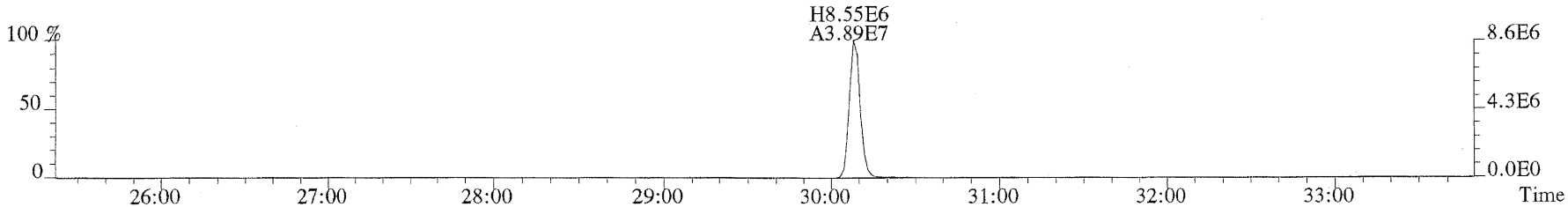
File:23JUL18Z #1-402 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



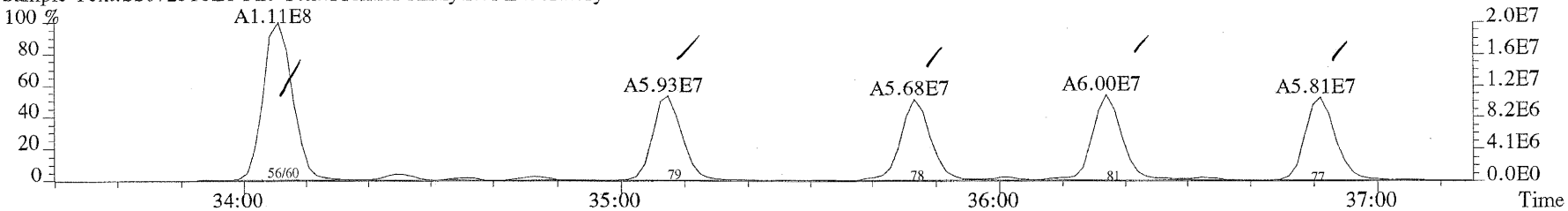
File:23JUL18Z #1-402 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



File:23JUL18Z #1-402 Acq:23-JUL-2018 15:45:50 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:SS072318Z1 File Text:Frontier Analytical Laboratory



File:23JUL18Z #1-182 Acq:23-JUL-2018 15:45:50 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:SS072318Z1 File Text:Frontier Analytical Laboratory



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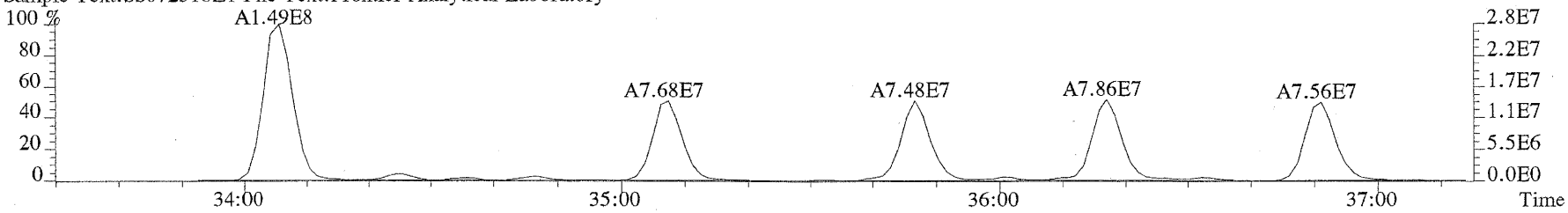
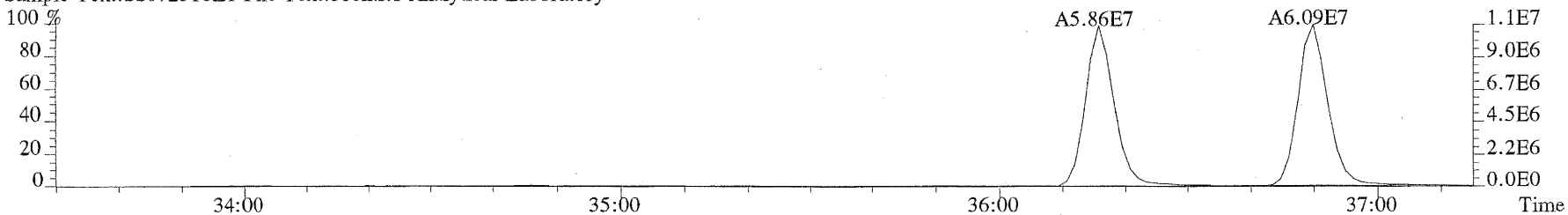
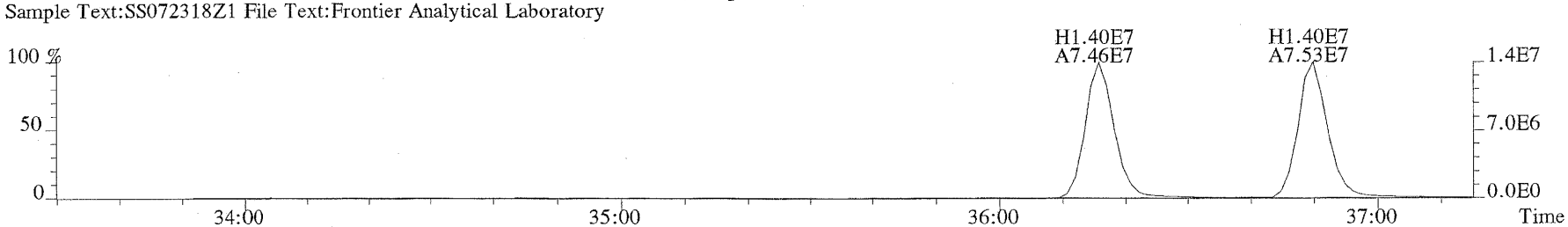
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



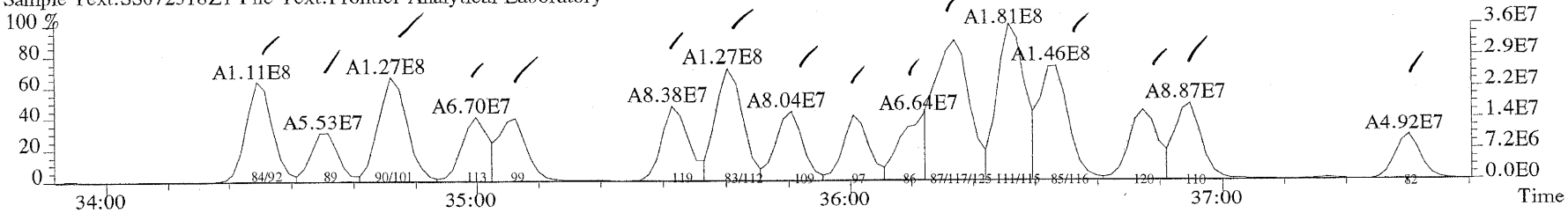
File:23JUL18Z #1-182 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



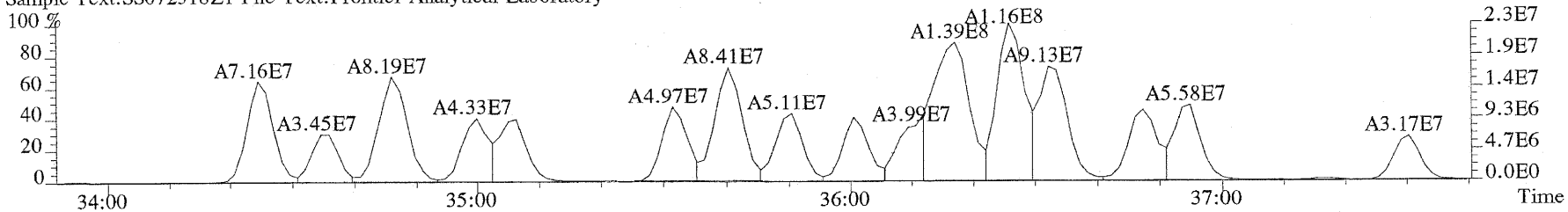
File:23JUL18Z #1-182 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



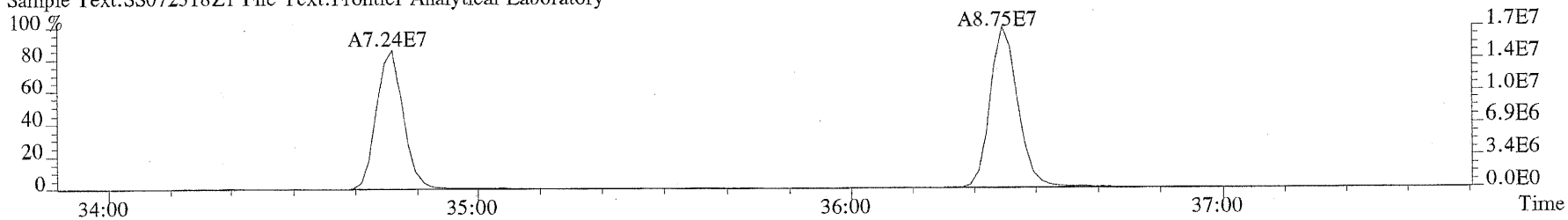
File:23JUL18Z #1-182 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



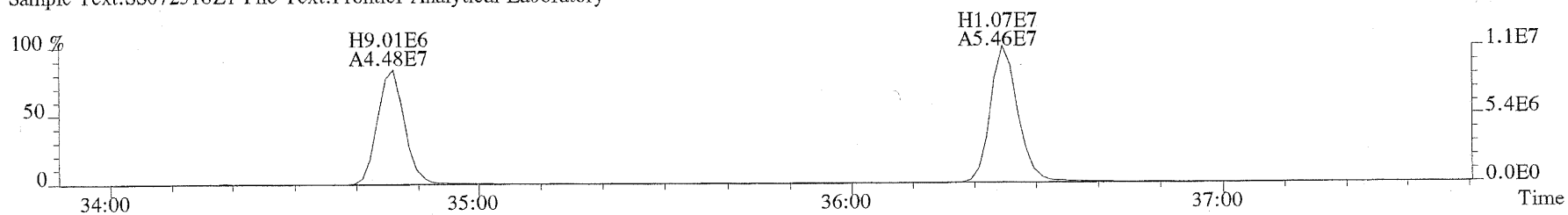
File:23JUL18Z #1-182 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



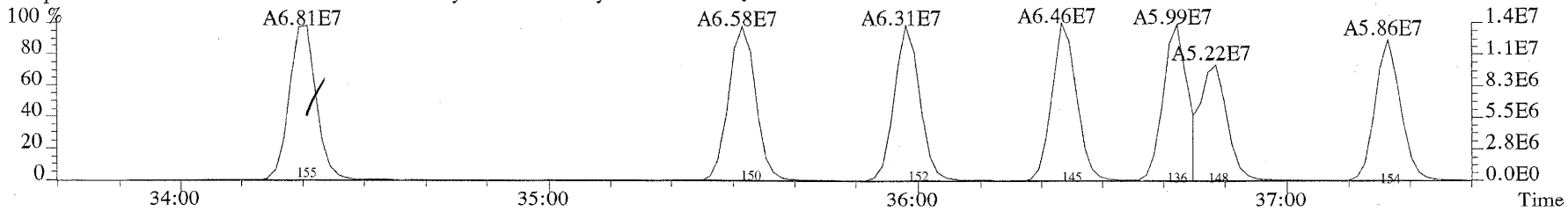
File:23JUL18Z #1-182 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



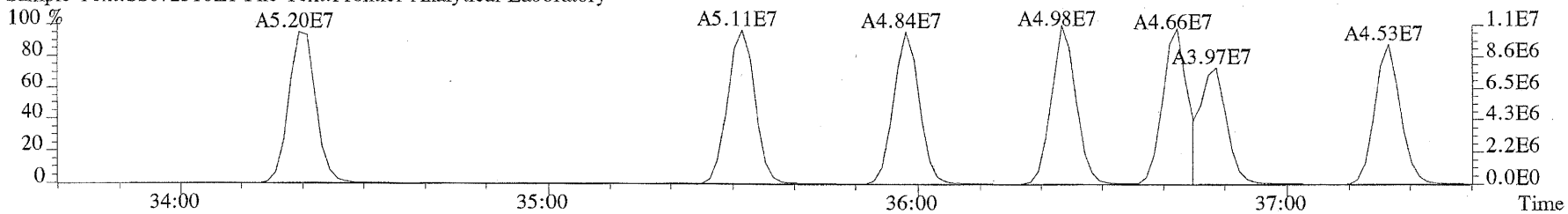
File:23JUL18Z #1-182 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



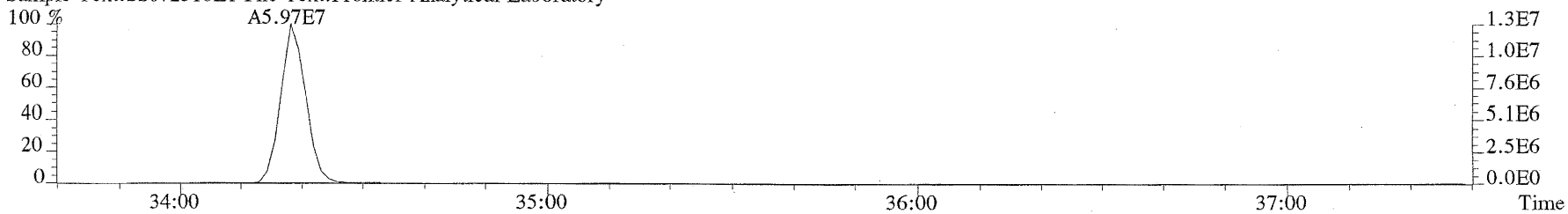
File:23JUL18Z #1-182 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



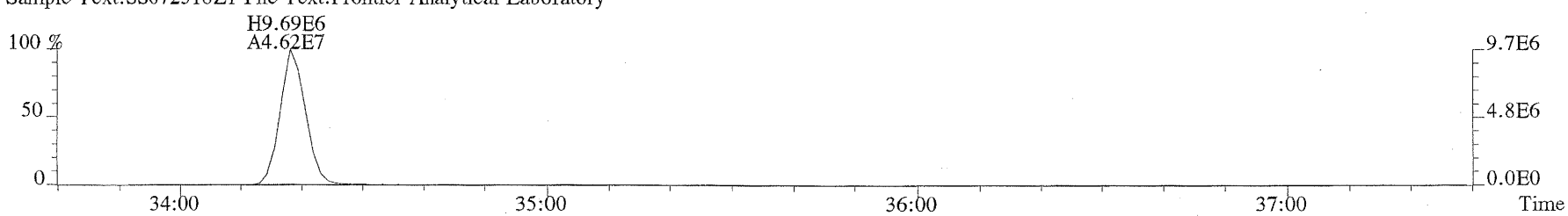
File:23JUL18Z #1-182 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



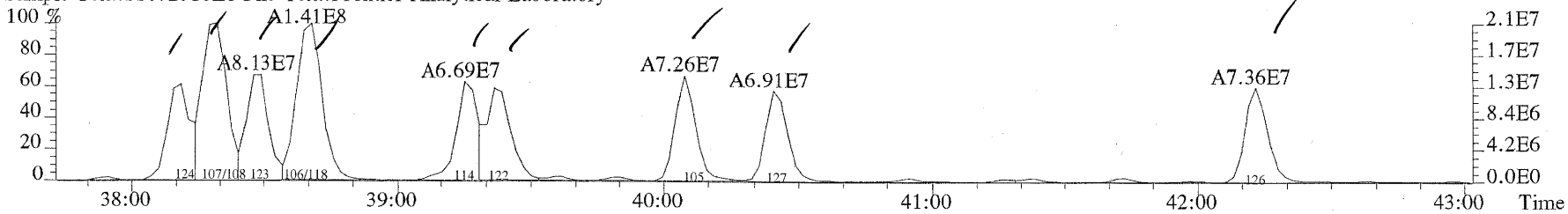
File:23JUL18Z #1-182 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



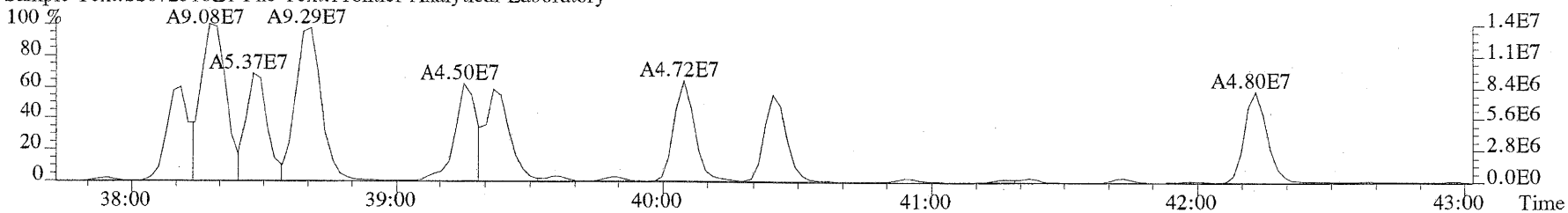
File:23JUL18Z #1-182 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



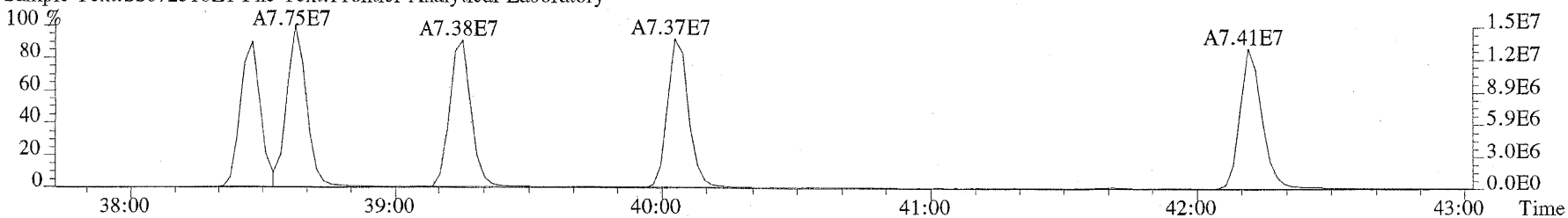
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



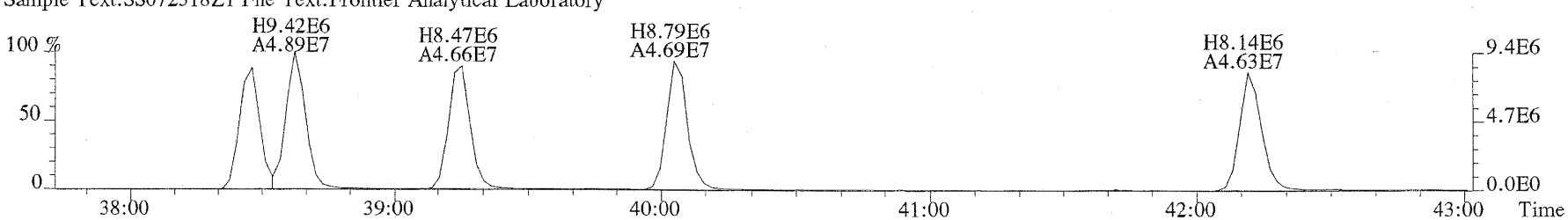
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



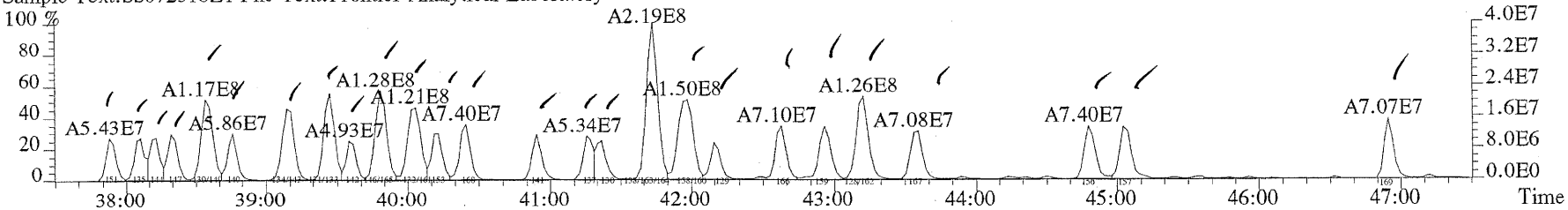
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



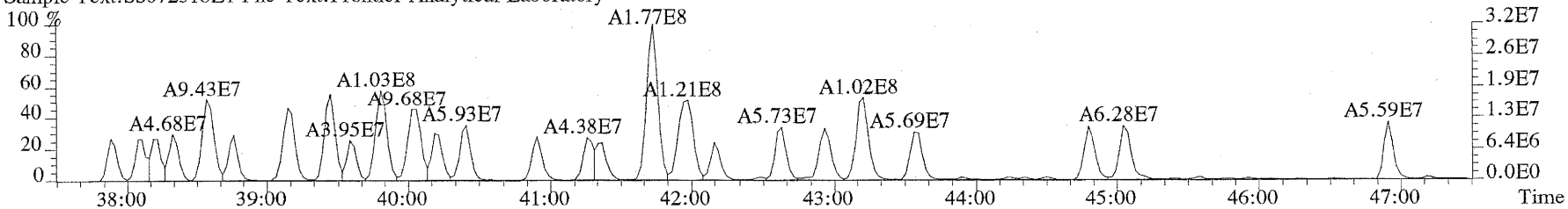
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



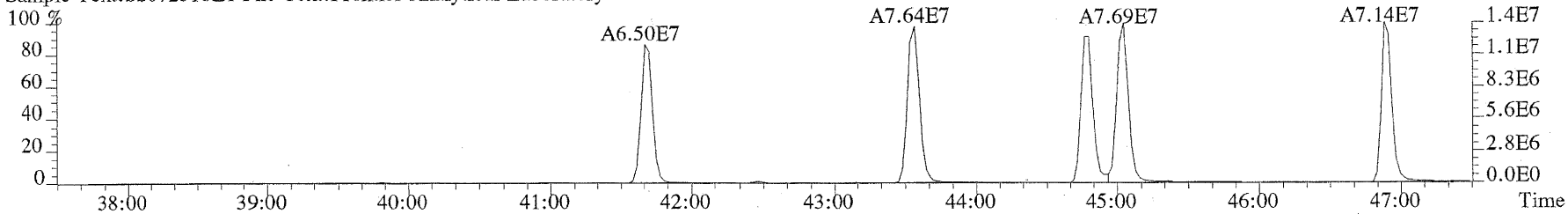
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



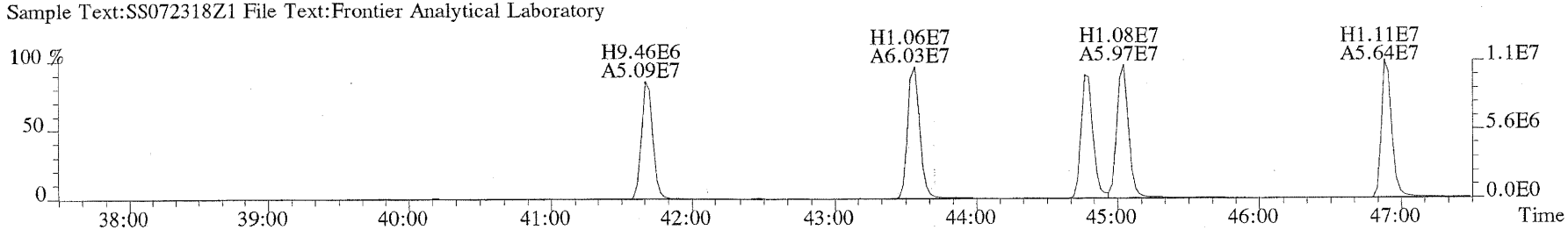
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



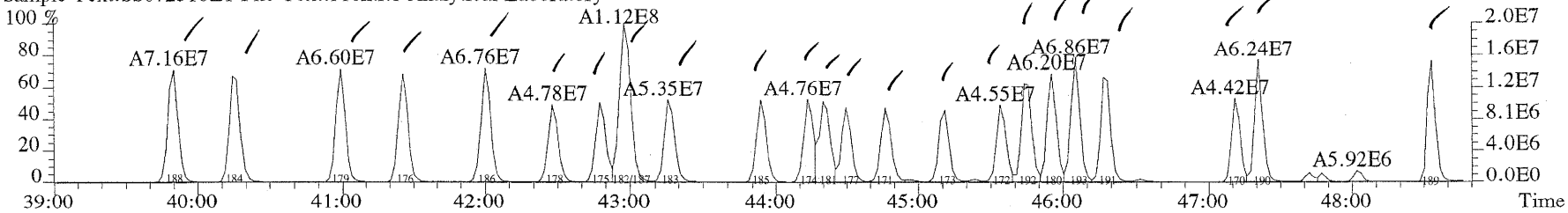
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



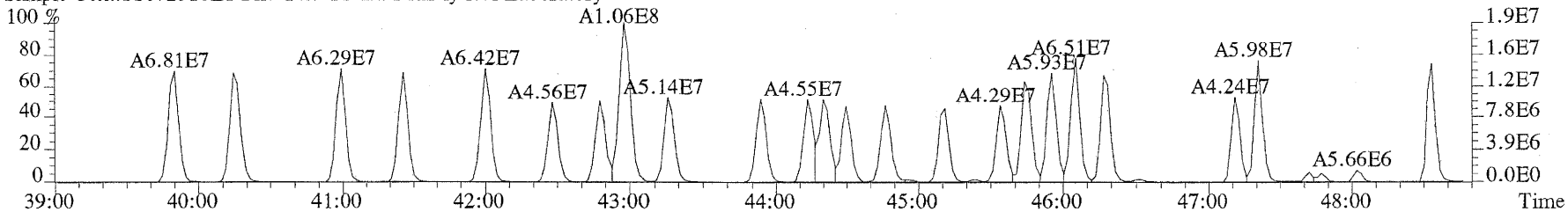
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



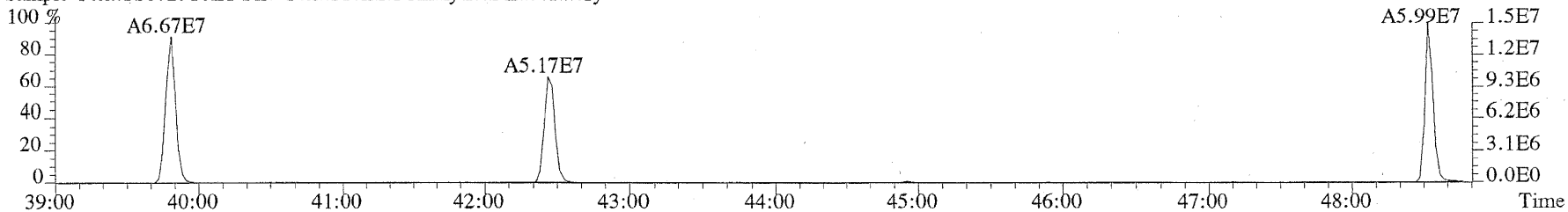
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



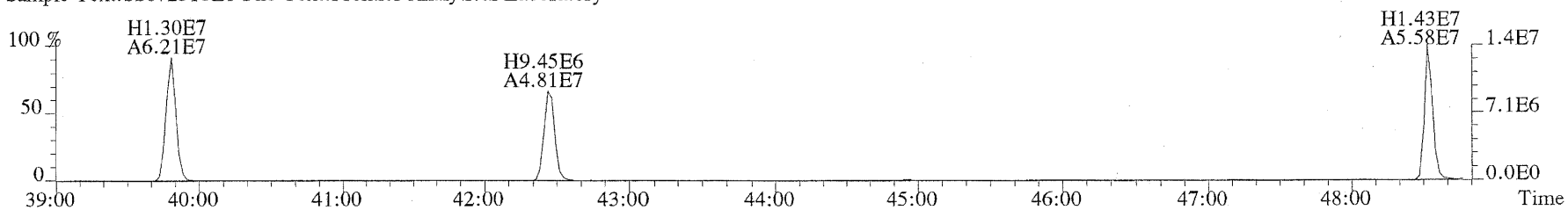
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



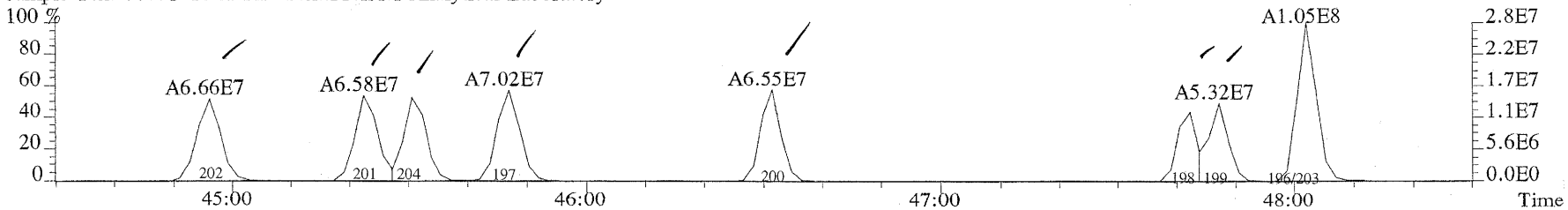
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



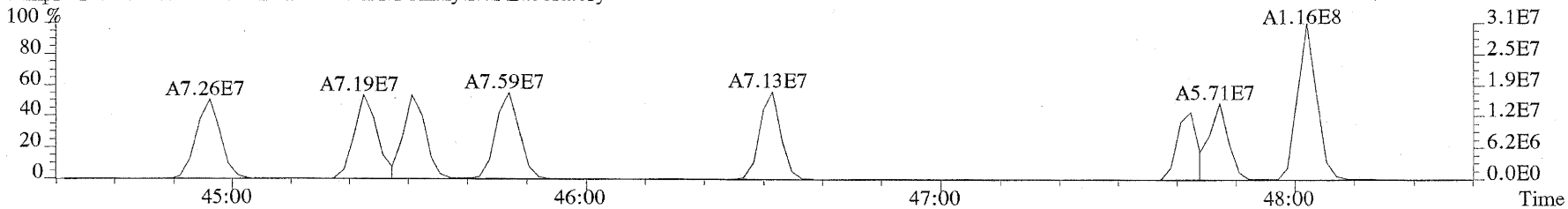
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



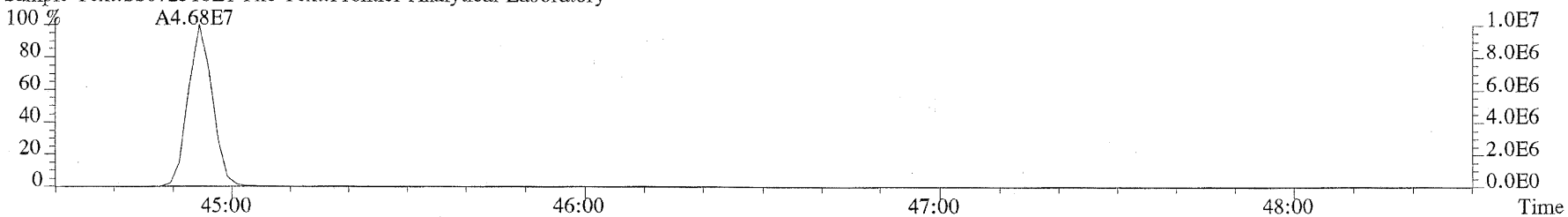
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



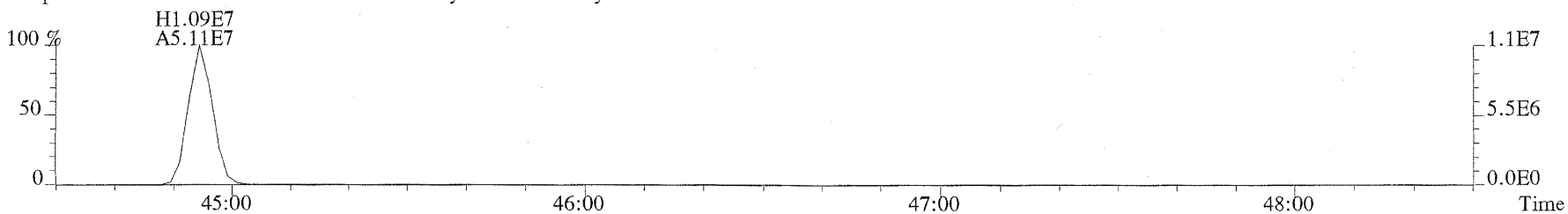
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



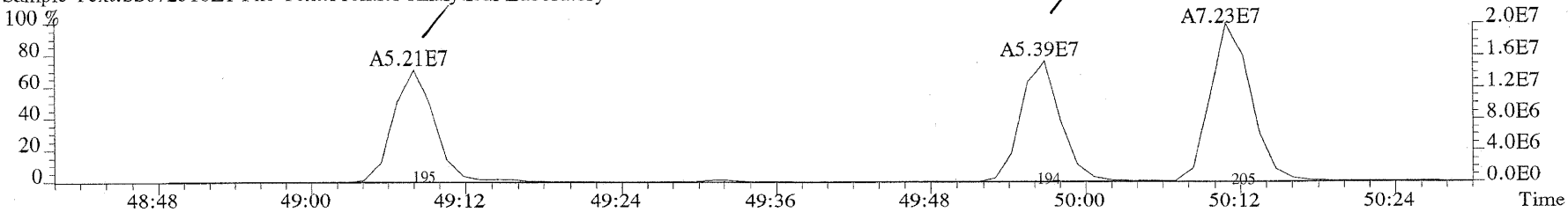
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



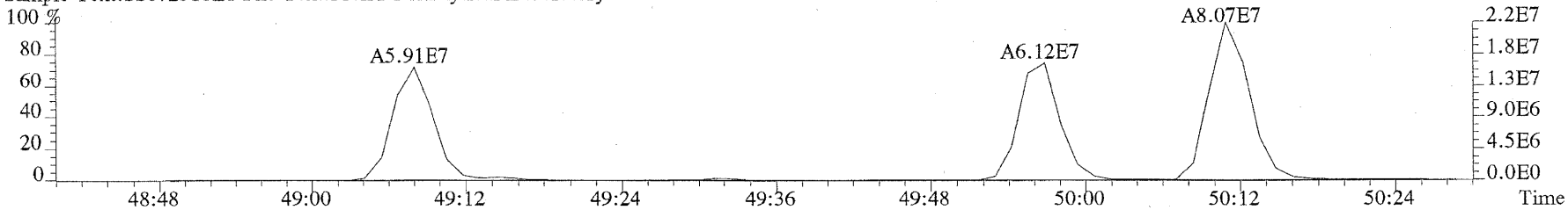
File:23JUL18Z #1-404 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



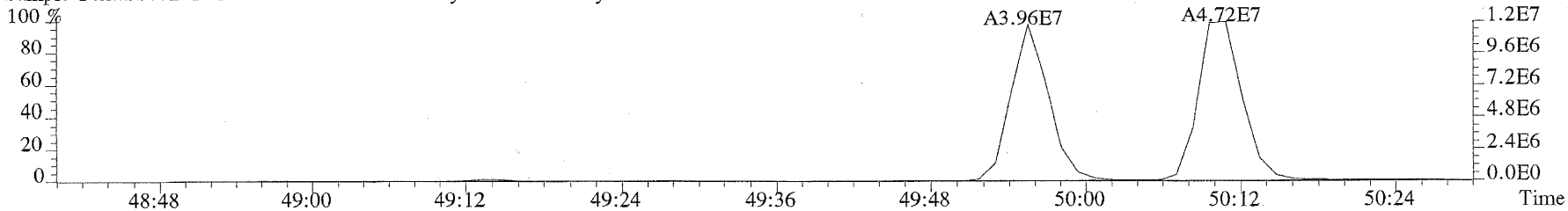
File:23JUL18Z #1-314 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



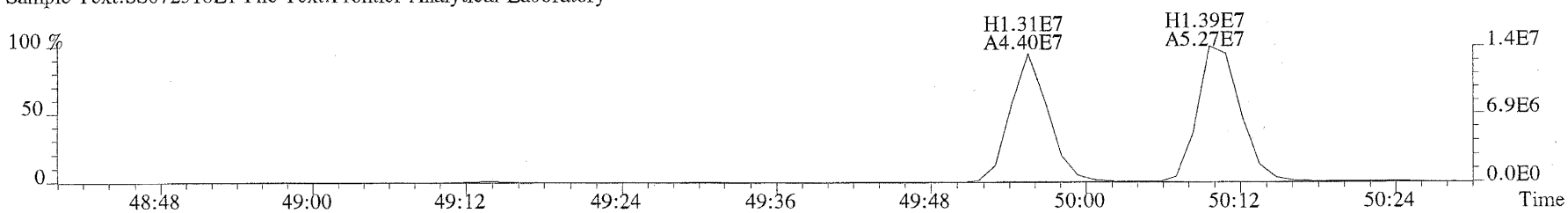
File:23JUL18Z #1-314 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



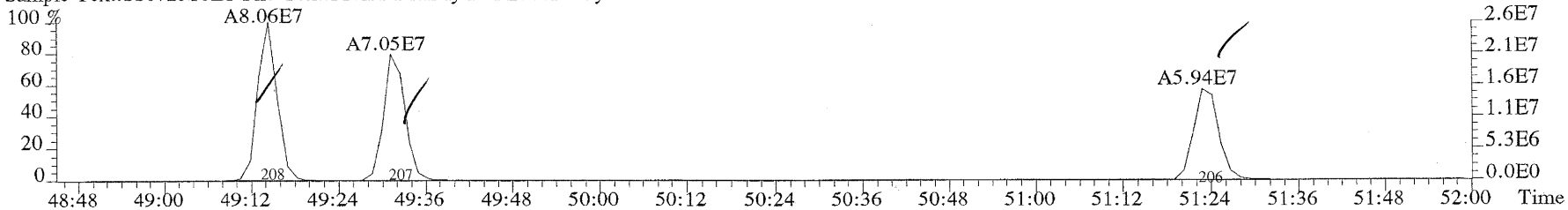
File:23JUL18Z #1-314 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



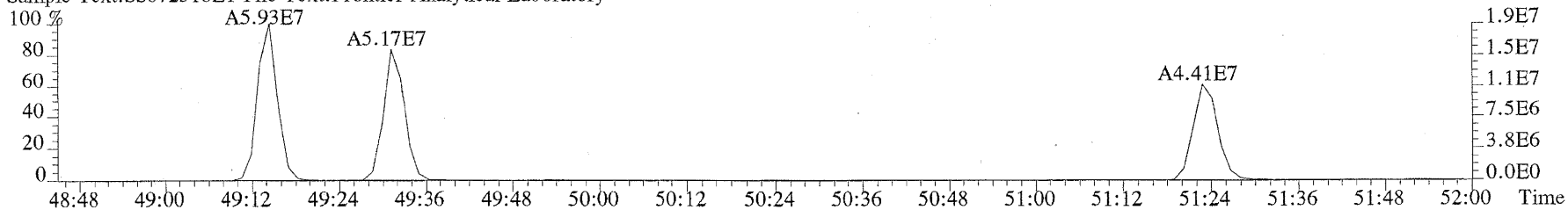
File:23JUL18Z #1-314 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



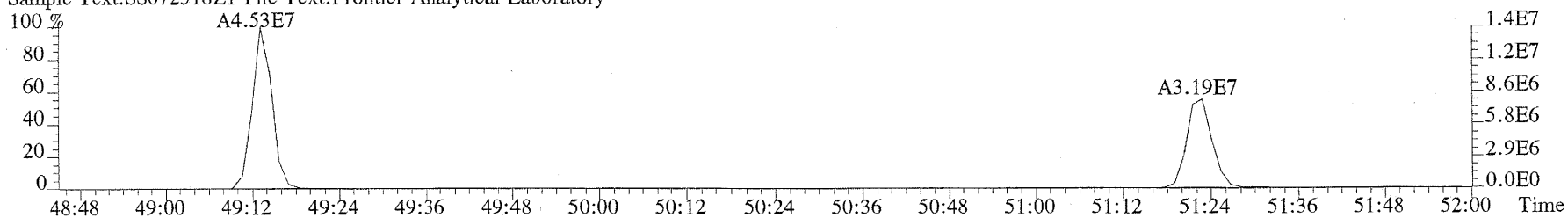
File:23JUL18Z #1-314 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



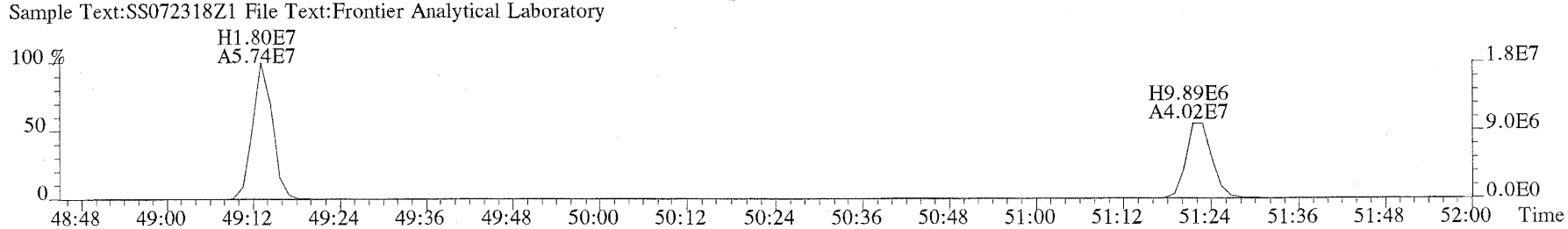
File:23JUL18Z #1-314 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



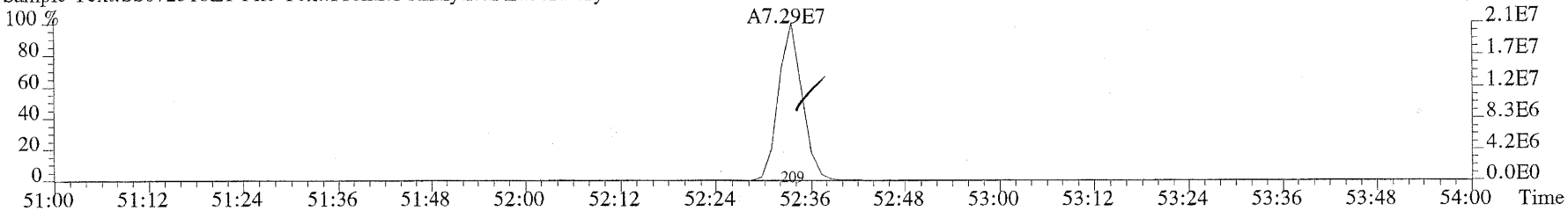
File:23JUL18Z #1-314 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



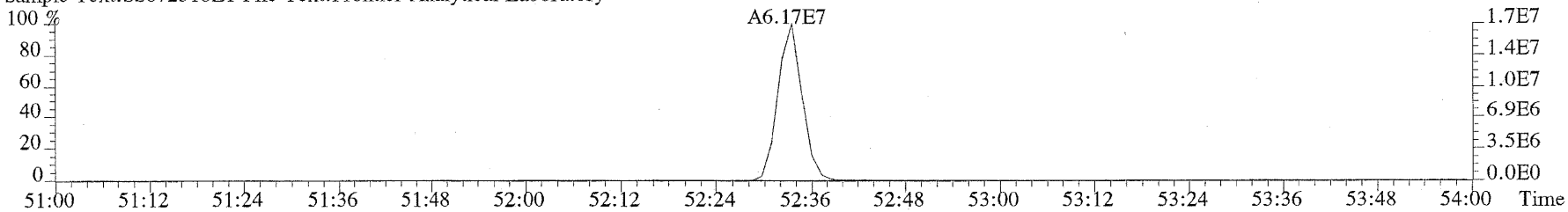
File:23JUL18Z #1-314 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



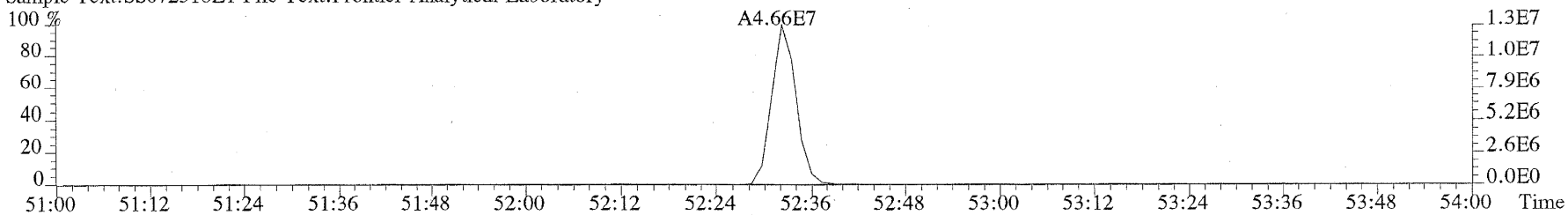
File:23JUL18Z #1-314 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



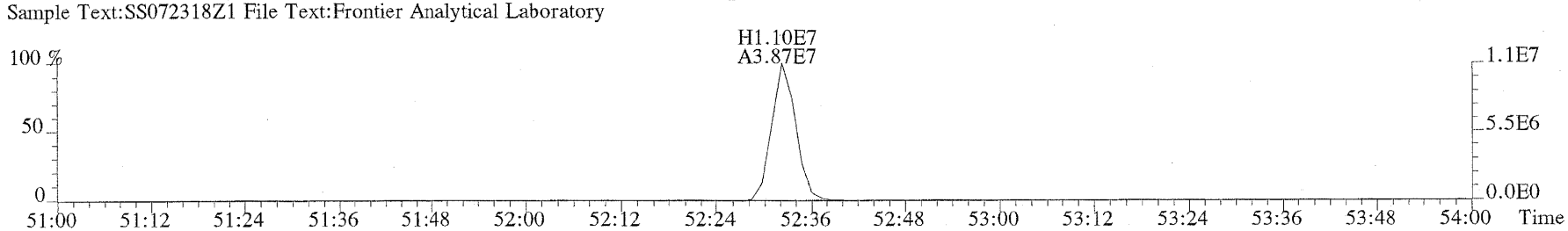
File:23JUL18Z #1-314 Acq:23-JUL-2018 15:45:50 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072318Z1 File Text:Frontier Analytical Laboratory



File:23JUL18Z #1-314 Acq:23-JUL-2018 15:45:50 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:SS072318Z1 File Text:Frontier Analytical Laboratory



File:23JUL18Z #1-314 Acq:23-JUL-2018 15:45:50 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:SS072318Z1 File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 23JUL18Z Sam:15 Analysis Date: 24-JUL-18 04:26:09

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.11	2.66-3.60	y	41.6	37.5 - 62.5
PCB-3	M/M+2	3.08	2.66-3.60	y	41.5	37.5 - 62.5
PCB-4	M/M+2	1.47	1.33-1.79	y	44.7	37.5 - 62.5
PCB-15	M/M+2	1.51	1.33-1.79	y	44.0	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	42.5	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	41.0	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	45.1	37.5 - 62.5
PCB-77	M/M+2	0.77	0.65-0.89	y	44.6	37.5 - 62.5
PCB-81	M/M+2	0.77	0.65-0.89	y	45.1	37.5 - 62.5
PCB-104	M+2/M+4	1.61	1.32-1.78	y	47.3	37.5 - 62.5
PCB-105	M+2/M+4	1.51	1.32-1.78	y	44.3	37.5 - 62.5
PCB-114	M+2/M+4	1.53	1.32-1.78	y	43.8	37.5 - 62.5
PCB-118	M+2/M+4	1.54	1.32-1.78	y	44.4	37.5 - 62.5
PCB-123	M+2/M+4	1.55	1.32-1.78	y	44.9	37.5 - 62.5
PCB-126	M+2/M+4	1.51	1.32-1.78	y	43.7	37.5 - 62.5
PCB-155	M+2/M+4	1.30	1.05-1.43	y	49.8	37.5 - 62.5
PCB-156	M+2/M+4	1.23	1.05-1.43	y	46.3	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	45.8	37.5 - 62.5
PCB-167	M+2/M+4	1.22	1.05-1.43	y	47.0	37.5 - 62.5
PCB-169	M+2/M+4	1.22	1.05-1.43	y	46.0	37.5 - 62.5
PCB-188	M+2/M+4	1.04	0.89-1.21	y	44.7	37.5 - 62.5
PCB-189	M+2/M+4	1.04	0.89-1.21	y	48.0	37.5 - 62.5
PCB-202	M+2/M+4	0.91	0.76-1.02	y	49.7	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	48.9	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	46.4	37.5 - 62.5
PCB-208	M+4/M+6	1.37	1.13-1.53	y	45.8	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	46.6	37.5 - 62.5

Analyst: [signature] Date: 7/24/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 23JUL18Z Sam:15 Analysis Date: 24-JUL-18 04:26:09

	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	3.09	2.66-3.60	y	107	50.0 - 145
13C-PCB-3	M/M+2	3.14	2.66-3.60	y	111	50.0 - 145
13C-PCB-4	M/M+2	1.54	1.33-1.79	y	88.9	50.0 - 145
13C-PCB-15	M/M+2	1.58	1.33-1.79	y	96.4	50.0 - 145
13C-PCB-19	M/M+2	1.06	0.88-1.20	y	145	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	90.5	50.0 - 145
13C-PCB-54	M/M+2	0.78	0.65-0.89	y	109	50.0 - 145
13C-PCB-77	M/M+2	0.78	0.65-0.89	y	79.9	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	76.9	50.0 - 145
13C-PCB-104	M+2/M+4	1.64	1.32-1.78	y	129	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	75.9	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	76.2	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	77.2	50.0 - 145
13C-PCB-123	M+2/M+4	1.57	1.32-1.78	y	75.4	50.0 - 145
13C-PCB-126	M+2/M+4	1.59	1.32-1.78	y	80.0	50.0 - 145
13C-PCB-155	M+2/M+4	1.31	1.05-1.43	y	103	50.0 - 145
13C-PCB-156	M+2/M+4	1.27	1.05-1.43	y	102	50.0 - 145
13C-PCB-157	M+2/M+4	1.25	1.05-1.43	y	102	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	101	50.0 - 145
13C-PCB-169	M+2/M+4	1.25	1.05-1.43	y	110	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	118	50.0 - 145
13C-PCB-189	M+2/M+4	1.05	0.89-1.21	y	123	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	114	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	101	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	120	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	114	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	133	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	85.9	65.0 - 135
13C-PCB-111	M+2/M+4	1.59	1.32-1.78	y	99.0	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	114	75.0 - 125

Analyst: [signature] Date: 7/24/18

FAL ID: ST072318Z2 Filename: 23JUL18Z Sam:15 Acquired: 24-JUL-18 04:26:09 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 R170805A 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	3.56e+07	3.11 y	14:35	1.11	41.6		2.50	-	-	*	-
13C-PCB-1	7.74e+07	3.09 y	14:34	1.07	107		2.50				107
PCB-3	3.63e+07	3.08 y	17:02	1.13	41.5		2.50	-	-	*	-
13C-PCB-3	7.77e+07	3.14 y	17:01	1.03	111		2.50				111
PCB-4	2.08e+07	1.47 y	18:16	1.14	44.7		2.50	-	-	*	-
13C-PCB-4	4.06e+07	1.54 y	18:15	0.67	88.9		2.50				88.9
PCB-15	3.28e+07	1.51 y	23:49	1.10	44.0		2.50	-	-	*	-
13C-PCB-15	6.74e+07	1.58 y	23:48	1.03	96.4		2.50				96.4
PCB-19	2.41e+07	1.04 y	22:09	1.23	42.5		2.50	-	-	*	-
13C-PCB-19	4.62e+07	1.06 y	22:08	0.47	145		2.50				145
13C-PCB-9	6.77e+07	1.55 y	19:56	-	289		2.50				
PCB-37	2.88e+07	1.05 y	30:28	1.26	41.0		2.50	-	-	*	-
13C-PCB-37	5.60e+07	1.06 y	30:27	1.40	90.5		2.50				90.5
PCB-54	3.00e+07	0.78 y	25:41	1.16	45.1		2.50	-	-	*	-
13C-PCB-54	5.75e+07	0.78 y	25:40	1.19	109		2.50				109
PCB-104	2.66e+07	1.61 y	30:08	1.22	47.3		2.50	-	-	*	-
13C-PCB-104	4.58e+07	1.64 y	30:07	0.80	129		2.50				129
13C-PCB-28	5.82e+07	1.05 y	26:46	1.53	85.9		2.50				85.9
13C-PCB-52	4.43e+07	0.78 y	29:02	-	342		2.50				
PCB-81	2.48e+07	0.77 y	36:14	1.17	45.1		2.50	-	-	*	-
13C-PCB-81	4.70e+07	0.79 y	36:14	1.37	76.9		2.50				76.9
PCB-77	2.48e+07	0.77 y	36:49	1.11	44.6		2.50	-	-	*	-
13C-PCB-77	5.01e+07	0.78 y	36:47	1.41	79.9		2.50				79.9
PCB-155	2.66e+07	1.30 y	34:18	1.14	49.8		2.50	-	-	*	-
13C-PCB-155	4.67e+07	1.31 y	34:17	1.02	103		2.50				103
13C-PCB-111	5.58e+07	1.59 y	36:23	1.26	99.0		2.50				99.0
13C-PCB-101	4.46e+07	1.62 y	34:43	-	395		2.50				
PCB-123	2.10e+07	1.55 y	38:26	1.12	44.9		2.50	-	-	*	-
13C-PCB-123	4.15e+07	1.57 y	38:24	1.36	75.4		2.50				75.4
PCB-118	2.29e+07	1.54 y	38:37	1.16	44.4		2.50	-	-	*	-
13C-PCB-118	4.46e+07	1.58 y	38:36	1.42	77.2		2.50				77.2
PCB-114	2.10e+07	1.53 y	39:14	1.13	43.8		2.50	-	-	*	-
13C-PCB-114	4.27e+07	1.61 y	39:12	1.38	76.2		2.50				76.2
PCB-105	2.08e+07	1.51 y	40:03	1.11	44.3		2.50	-	-	*	-
13C-PCB-105	4.24e+07	1.59 y	40:01	1.38	75.9		2.50				75.9
PCB-126	2.03e+07	1.51 y	42:11	1.11	43.7		2.50	-	-	*	-
13C-PCB-126	4.17e+07	1.59 y	42:10	1.29	80.0		2.50				80.0
PCB-167	2.50e+07	1.22 y	43:32	1.05	47.0		2.50	-	-	*	-
13C-PCB-167	5.06e+07	1.26 y	43:32	1.23	101		2.50				101
PCB-156	2.45e+07	1.23 y	44:46	1.08	46.3		2.50	-	-	*	-
13C-PCB-156	4.92e+07	1.27 y	44:44	1.19	102		2.50				102
PCB-157	2.47e+07	1.24 y	45:01	1.06	45.8		2.50	-	-	*	-
13C-PCB-157	5.11e+07	1.25 y	44:59	1.24	102		2.50				102
PCB-169	2.50e+07	1.22 y	46:53	1.06	46.0		2.50	-	-	*	-
13C-PCB-169	5.12e+07	1.25 y	46:53	1.15	110		2.50				110
PCB-188	2.75e+07	1.04 y	39:48	1.14	44.7		2.50	-	-	*	-
13C-PCB-188	5.38e+07	1.06 y	39:46	1.13	118		2.50				118
PCB-189	2.53e+07	1.04 y	48:32	1.12	48.0		2.50	-	-	*	-
13C-PCB-189	4.73e+07	1.05 y	48:32	0.94	123		2.50				123
PCB-202	1.93e+07	0.91 y	44:54	1.09	49.7		2.50	-	-	*	-
13C-PCB-202	3.56e+07	0.92 y	44:53	0.77	114		2.50				114
13C-PCB-178	3.51e+07	1.06 y	42:24	0.76	114		2.50				114
13C-PCB-138	4.06e+07	1.25 y	41:38	-	371		2.50				

FAL ID: ST072318Z2 Filename: 23JUL18Z Sam:15 Acquired: 24-JUL-18 04:26:09 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 R170805A ConCal: NA EndCal: NA
Results: GC Column: DB1MS Amount: 1.000

PCB-205	1.89e+07	0.90	y	50:11	1.04	48.9	2.50	-	-	*	-
13C-PCB-205	3.71e+07	0.89	y	50:10	1.32	101	2.50				101
PCB-208	1.85e+07	1.37	y	49:13	0.96	45.8	2.50	-	-	*	-
13C-PCB-208	4.19e+07	0.80	y	49:12	1.33	114	2.50				114
PCB-206	1.41e+07	1.35	y	51:21	0.97	46.4	2.50	-	-	*	-
13C-PCB-206	3.12e+07	0.79	y	51:20	0.94	120	2.50				120
PCB-209	2.11e+07	1.19	y	52:33	1.17	46.6	2.50	-	-	*	-
13C-PCB-209	3.86e+07	1.20	y	52:32	1.04	133	2.50				133
13C-PCB-194	2.77e+07	0.90	y	49:54	-	280	2.50				

Analyst: _____ Date: 7/24/18

Frontier Analytical Laboratory - Acquisition Log

Run Name:23JUL18Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

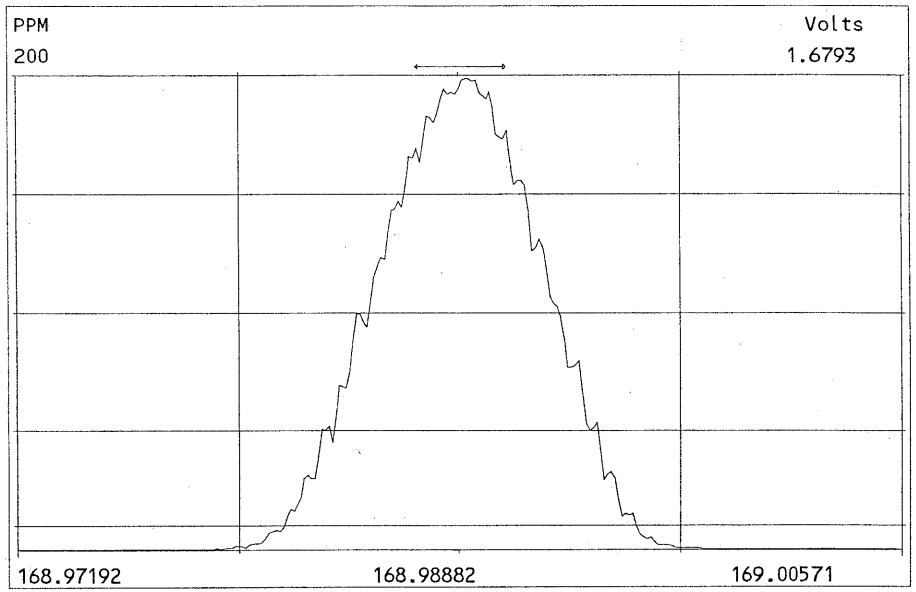
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
23JUL18Z	1	ST072318Z1	1668 CS3 170805A	23-JUL-18 14:47:30	ST072318Z1	ST072318Z2	DV
23JUL18Z	2	SS072318Z1	Daily 209 171222A	23-JUL-18 15:45:50	ST072318Z1	ST072318Z2	DV
23JUL18Z	3	04575-001-0001-OPR	OPR	23-JUL-18 16:44:31	ST072318Z1	ST072318Z2	DV
23JUL18Z	4	04575-001-0001-MB	Method Blank	23-JUL-18 17:42:53	ST072318Z1	ST072318Z2	DV
23JUL18Z	5	11592-003-0001-SA	KMART Core	23-JUL-18 18:41:18	ST072318Z1	ST072318Z2	DV
23JUL18Z	6	11614-015-0001-SA	Charmin Ultra Strong - WalMa¶	23-JUL-18 19:40:05	ST072318Z1	ST072318Z2	DV
23JUL18Z	7	11614-019-0001-SA	Charmin Essential Strong - K¶	23-JUL-18 20:38:27	ST072318Z1	ST072318Z2	DV
23JUL18Z	8	11614-021-0001-SA	Charmin Essential Soft - KMa¶	23-JUL-18 21:36:48	ST072318Z1	ST072318Z2	DV
23JUL18Z	9	11614-026-0001-SA	Charmin Ultra Gentle - Targe¶	23-JUL-18 22:35:35	ST072318Z1	ST072318Z2	DV
23JUL18Z	10	11704-007-0001-SA	LDW-Y1-SU-S010-LCB	23-JUL-18 23:33:57	ST072318Z1	ST072318Z2	DV
23JUL18Z	11	11704-008-0001-SA	LDW-Y1-IN-ENR+AC-CA-S010	24-JUL-18 00:32:18	ST072318Z1	ST072318Z2	DV
23JUL18Z	12	11704-009-0001-SA	LDW-Y1-IN-ENR+AC-CB-S010	24-JUL-18 01:31:05	ST072318Z1	ST072318Z2	DV
23JUL18Z	13	11704-010-0001-SA	LDW-Y1-IN-ENR+AC-CC-S010	24-JUL-18 02:29:26	ST072318Z1	ST072318Z2	DV
23JUL18Z	14	SB072318Z1	Solvent Blank	24-JUL-18 03:27:47	ST072318Z1	ST072318Z2	DV
23JUL18Z	15	ST072318Z2	1668 CS3 170805A	24-JUL-18 04:26:09	ST072318Z1	ST072318Z2	DV

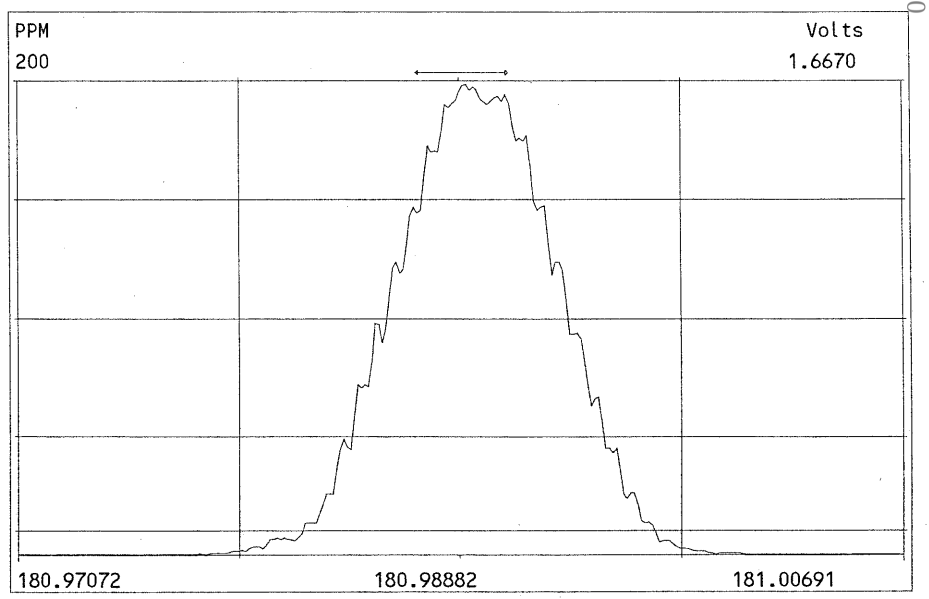
7/24/18

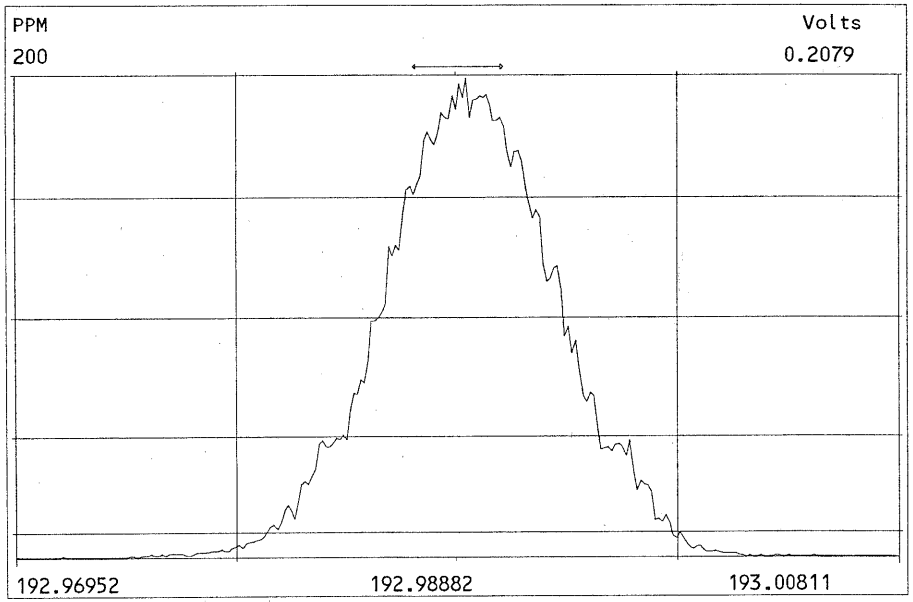
Data Backed Up:_____

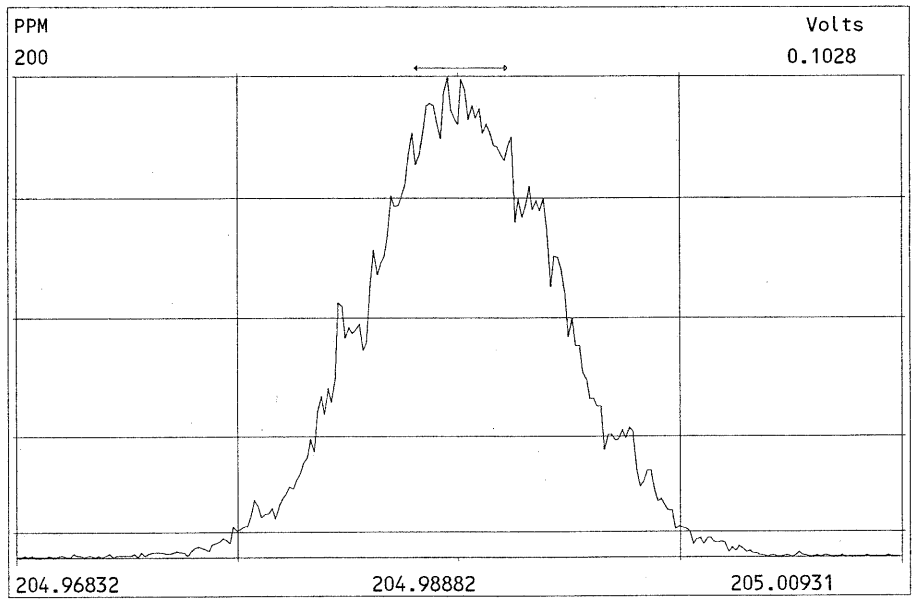
Date:_____

Peak Locate Examination:23-JUL-2018:14:42 File:23JUL18Z
Experiment:1668PCB Function:1 Reference:PFK

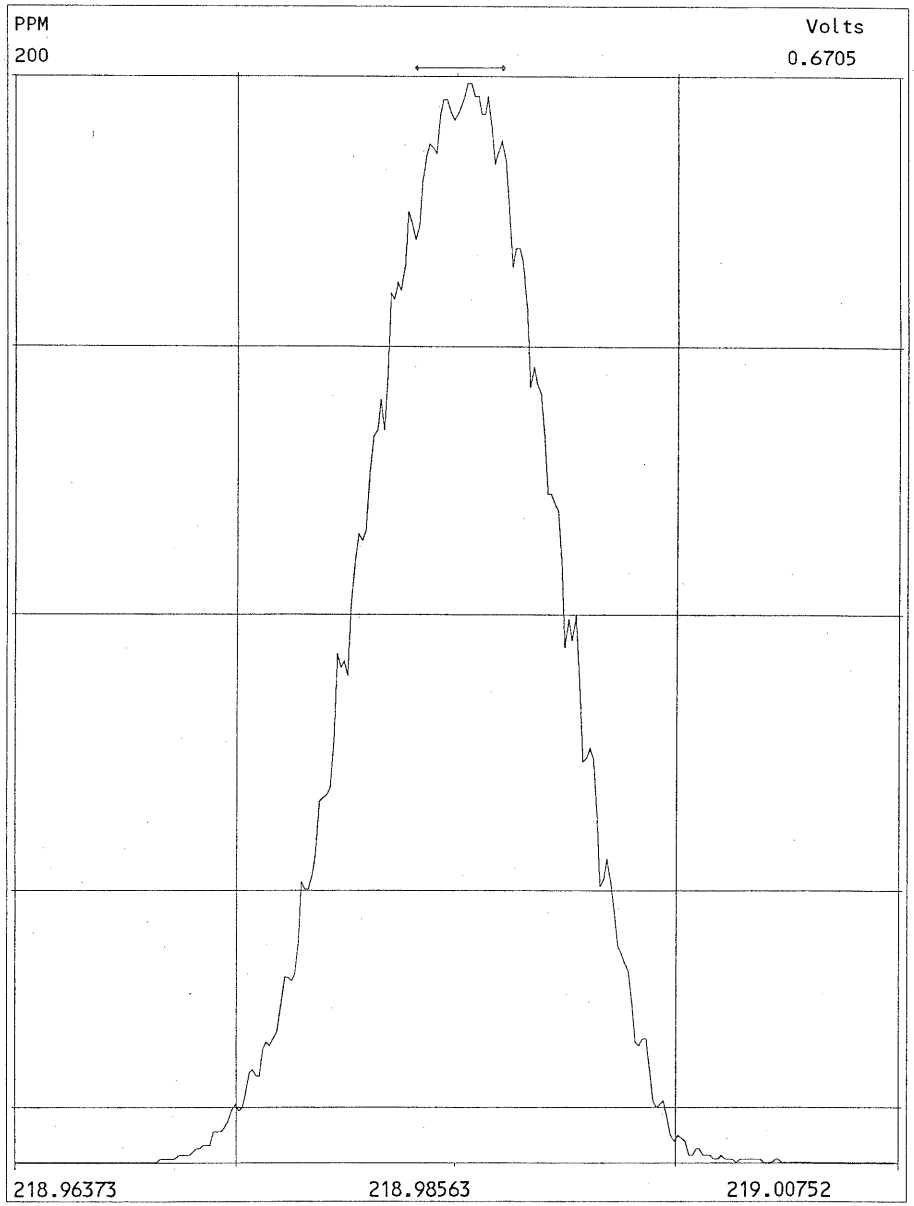


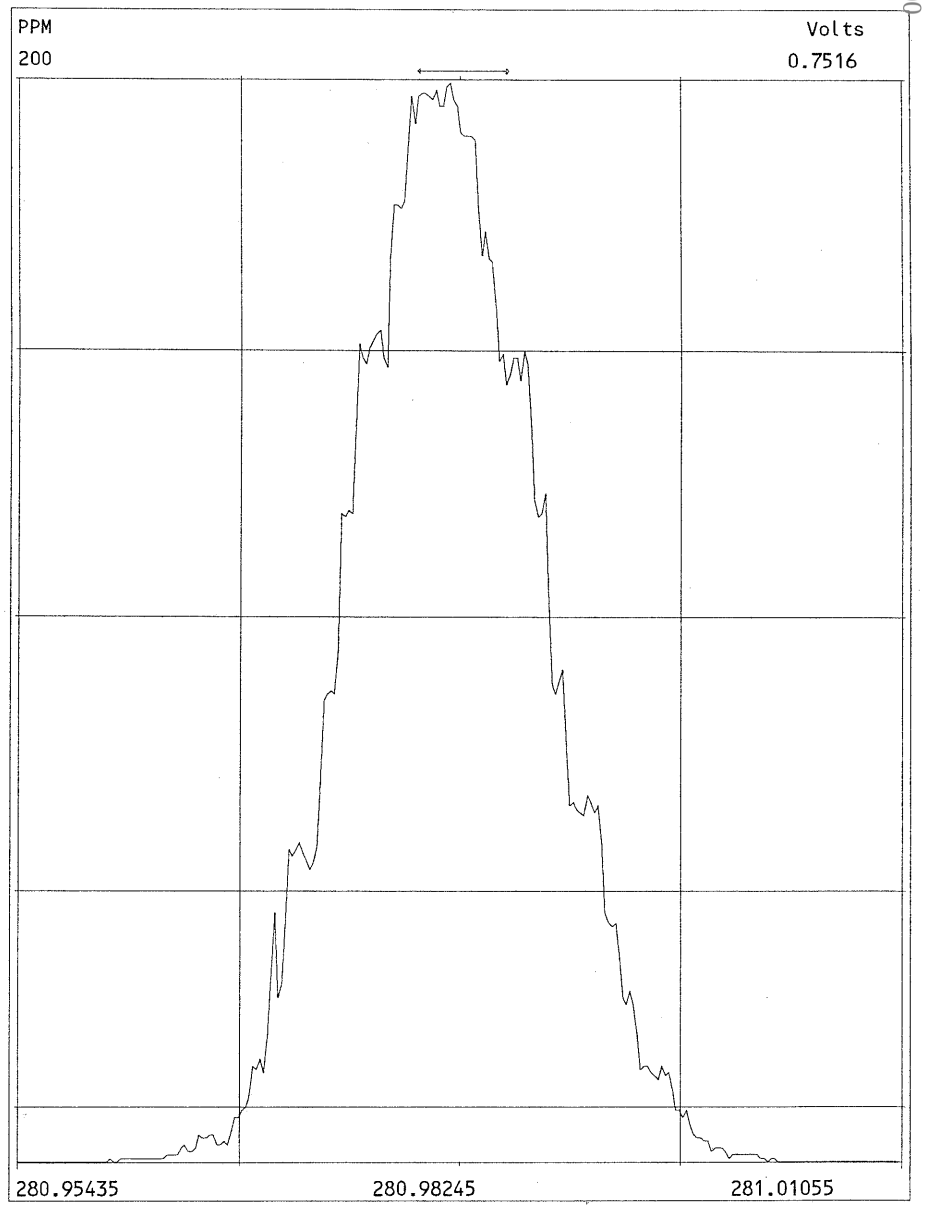




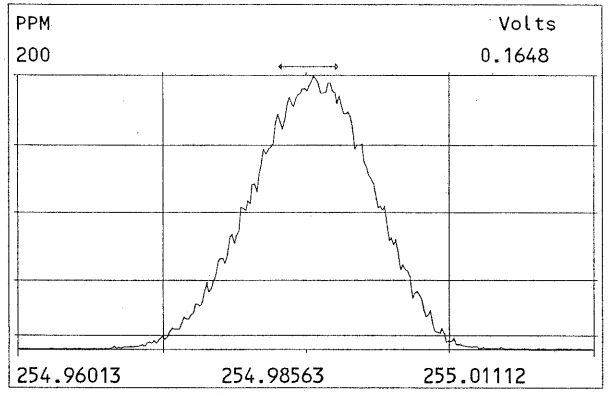


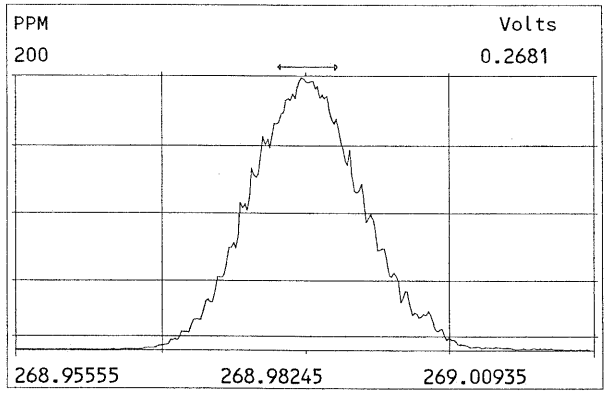
Peak Locate Examination:23-JUL-2018:14:44 File:23JUL18Z
Experiment:1668PCB Function:2 Reference:PFK

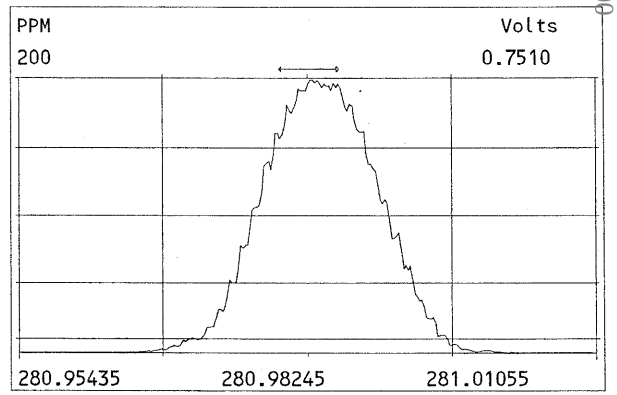


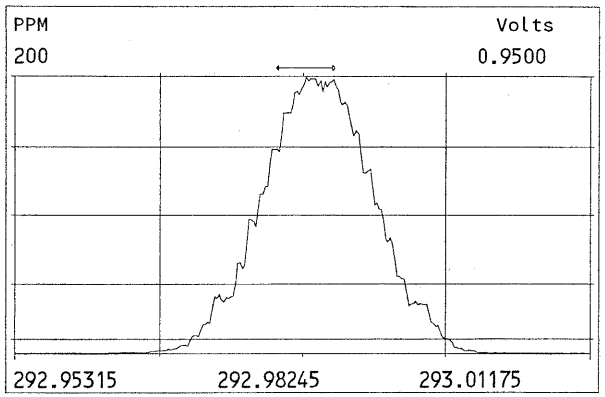


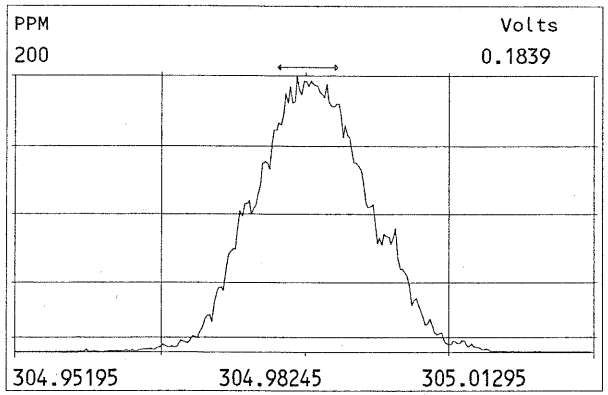
Peak Locate Examination:23-JUL-2018:14:44 File:23JUL18Z
Experiment:1668PCB Function:3 Reference:PFK

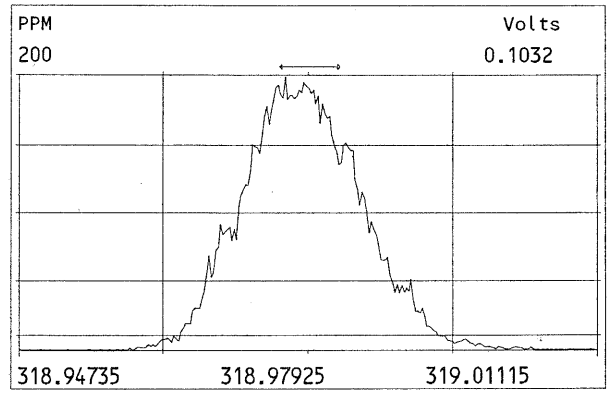


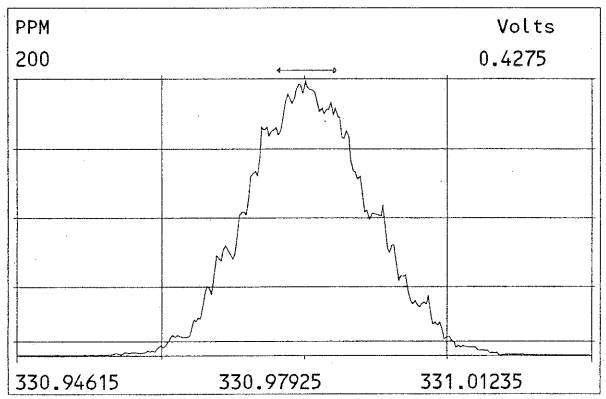


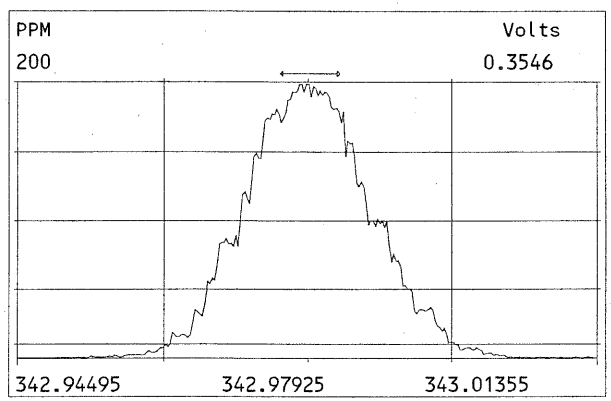




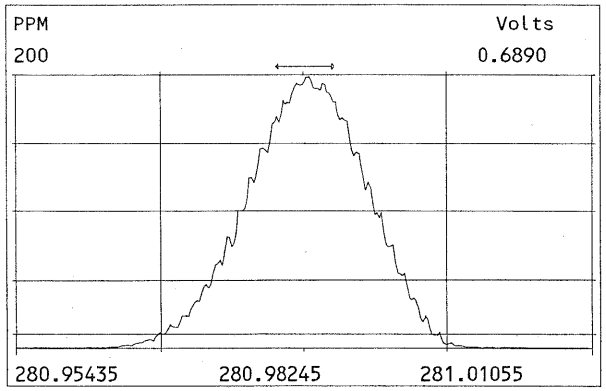


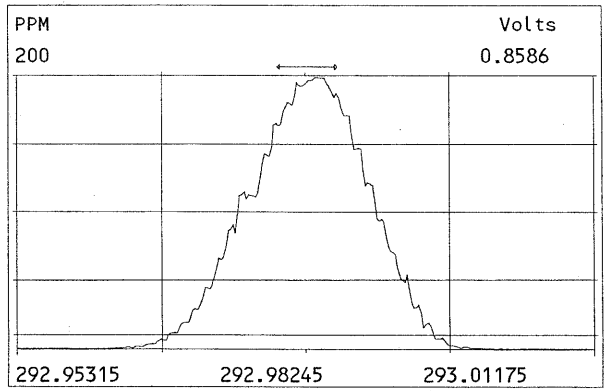


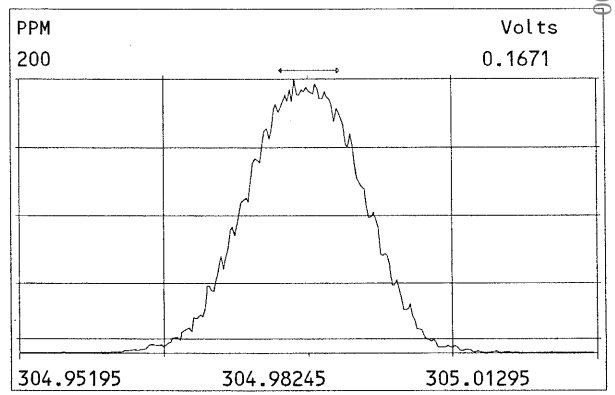


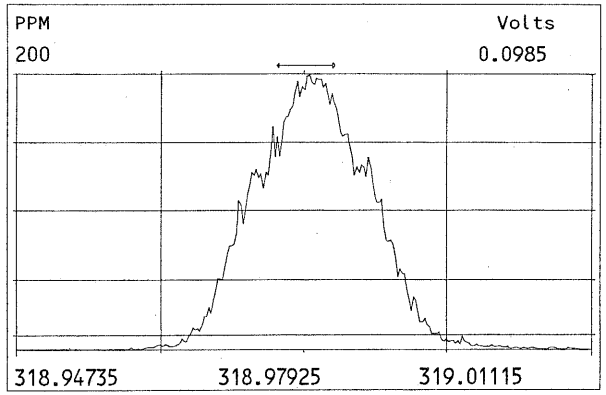


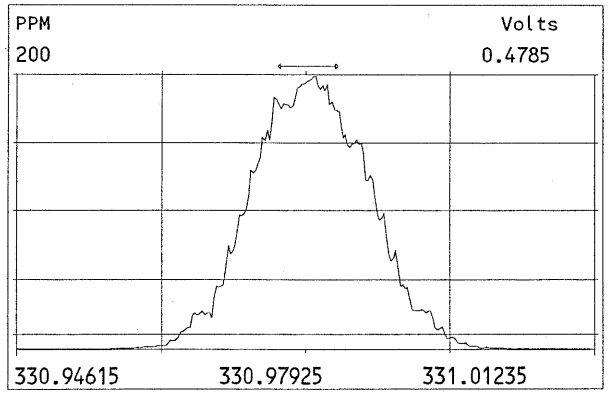
Peak Locate Examination:23-JUL-2018:14:45 File:23JUL18Z
Experiment:1668PCB Function:4 Reference:PFK

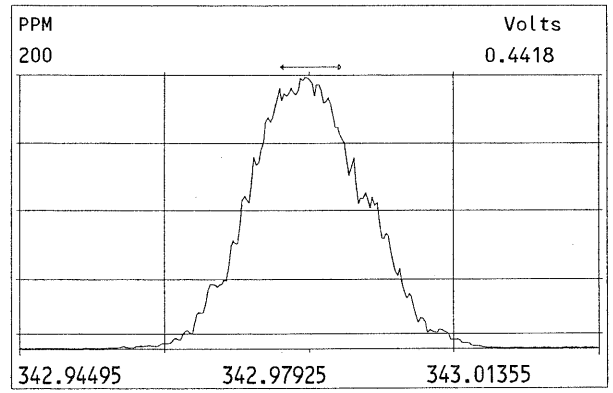


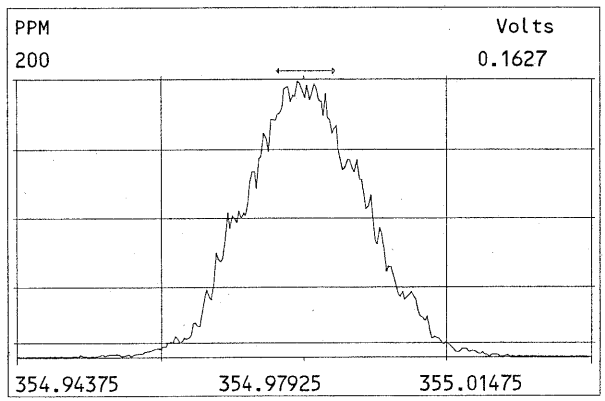


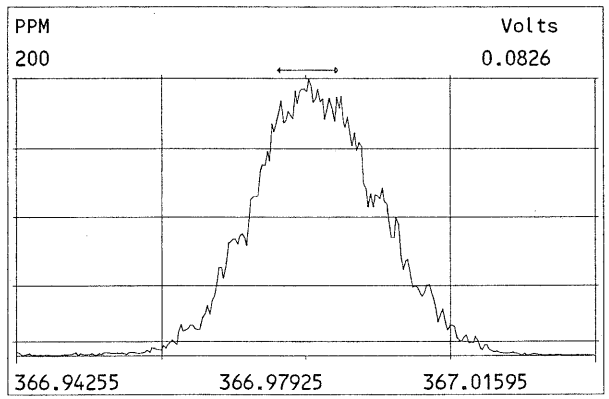


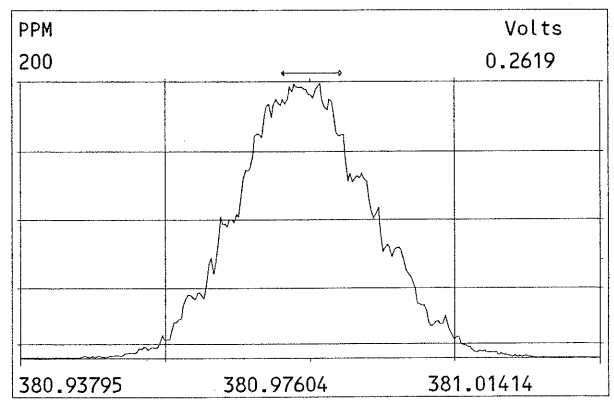






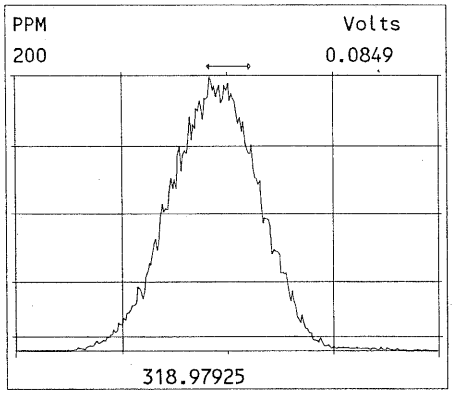


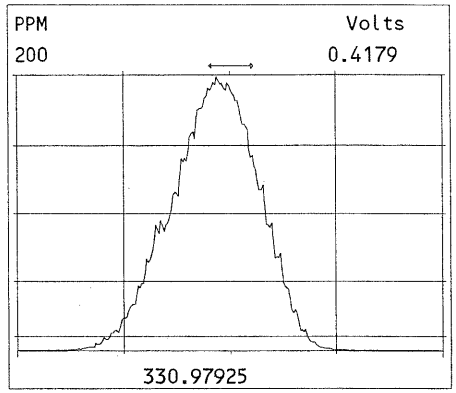


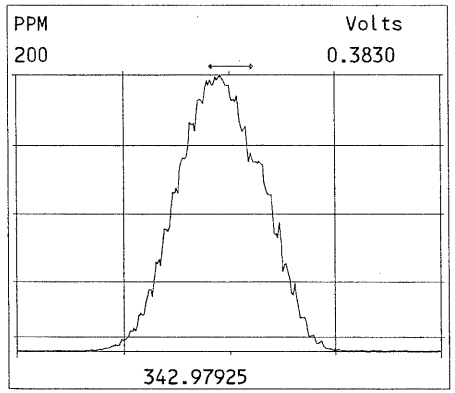


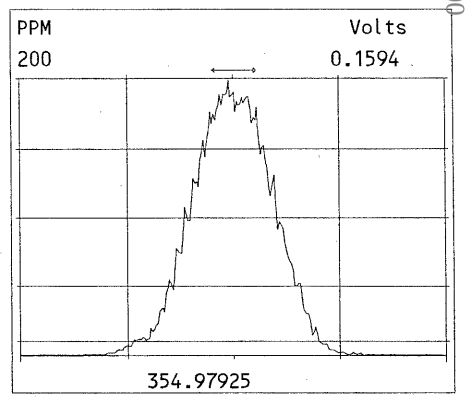
Peak Locate Examination:23-JUL-2018:14:46 File:23JUL18Z

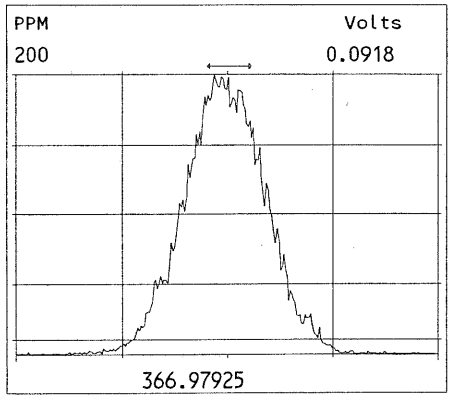
Experiment:1668PCB Function:5 Reference:PFK

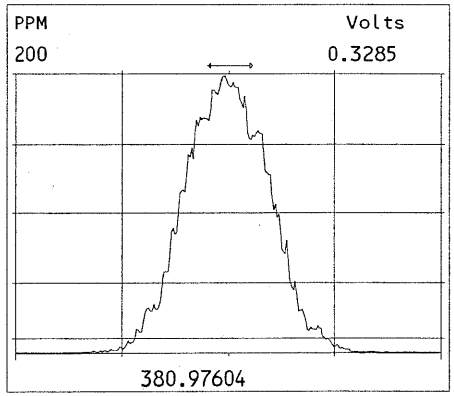


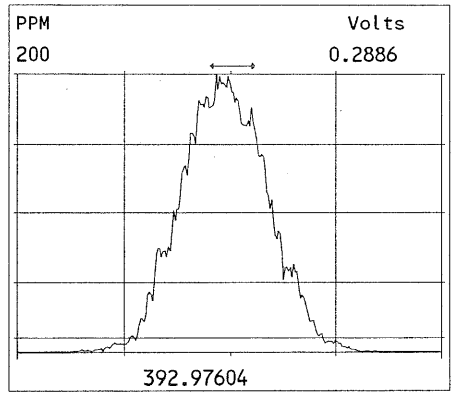


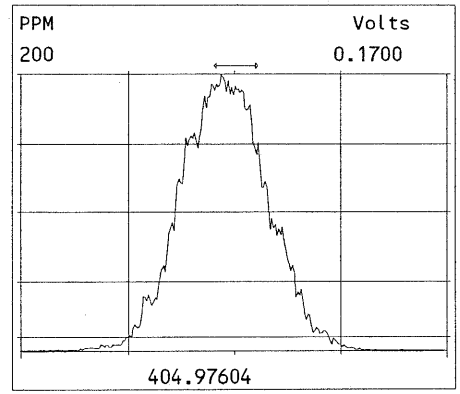


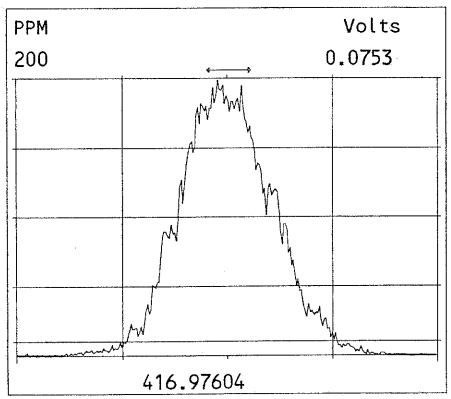


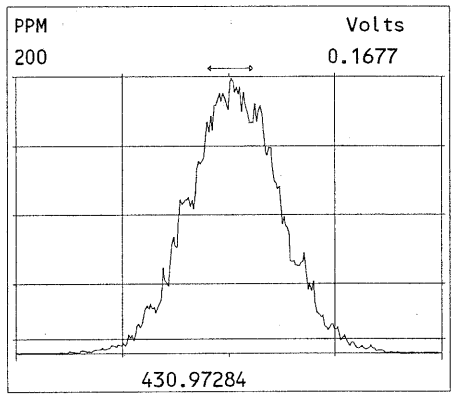


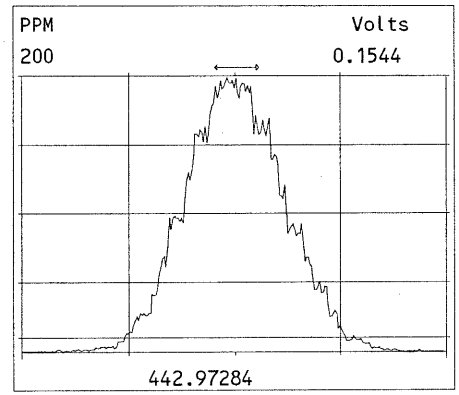




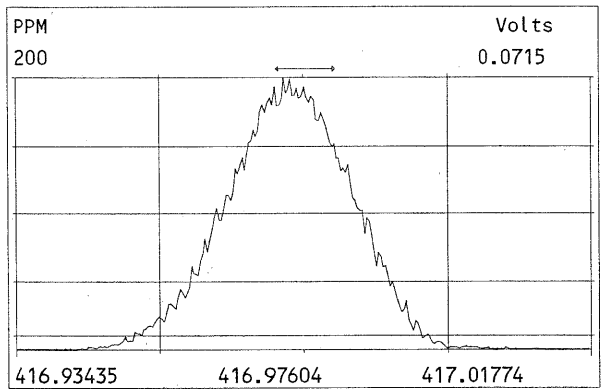


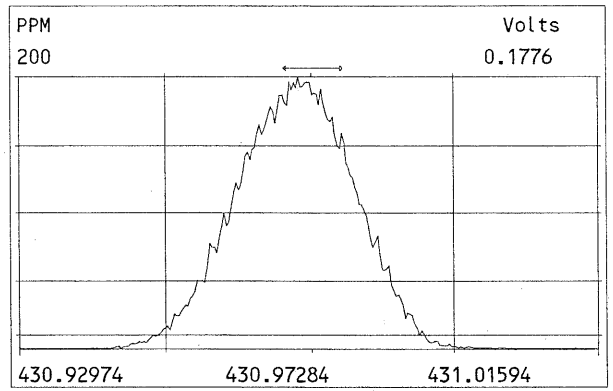


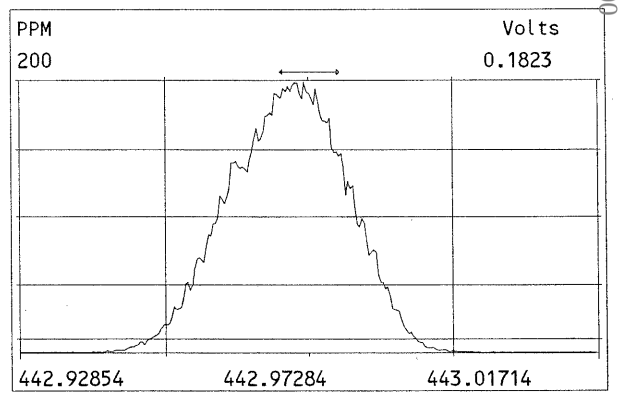


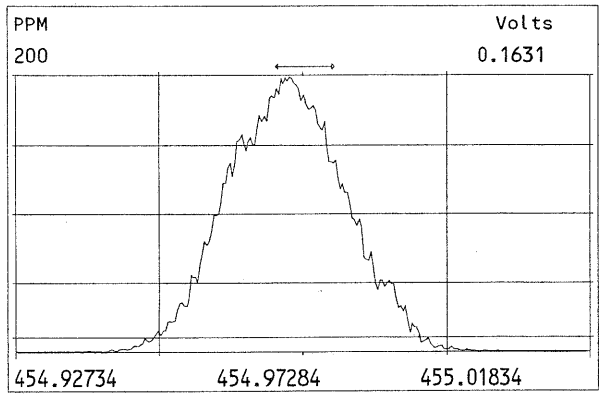


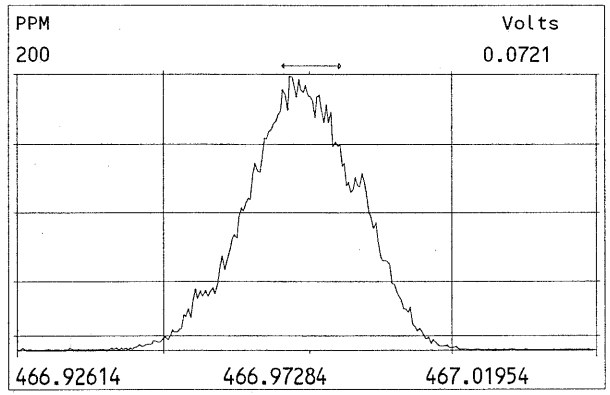
Peak Locate Examination:23-JUL-2018:14:47 File:23JUL18Z
Experiment:1668PCB Function:6 Reference:PFK

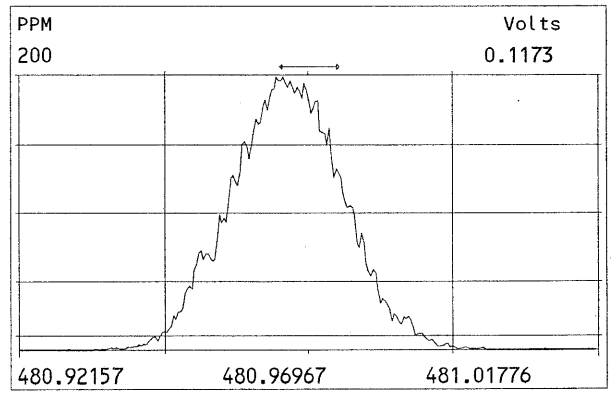


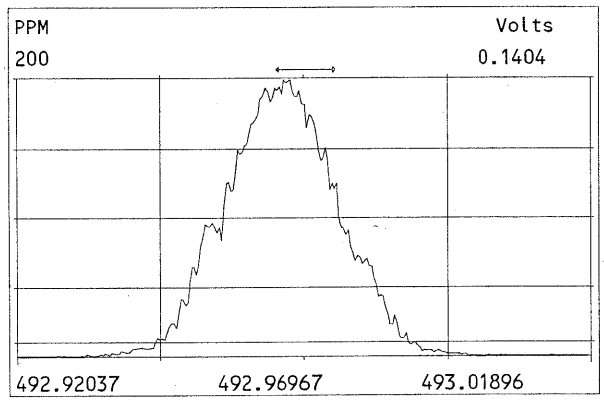


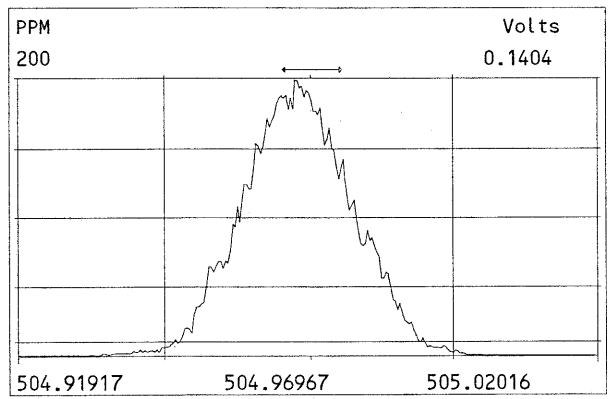


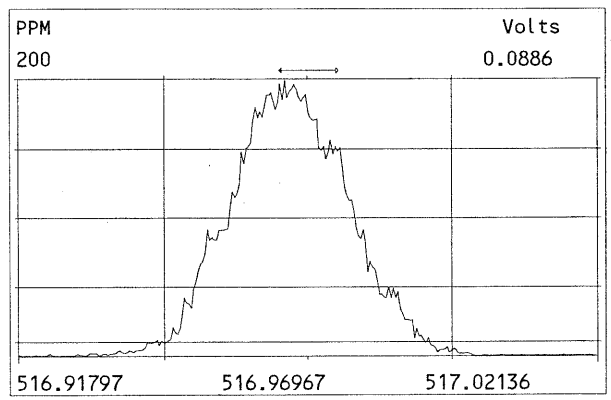




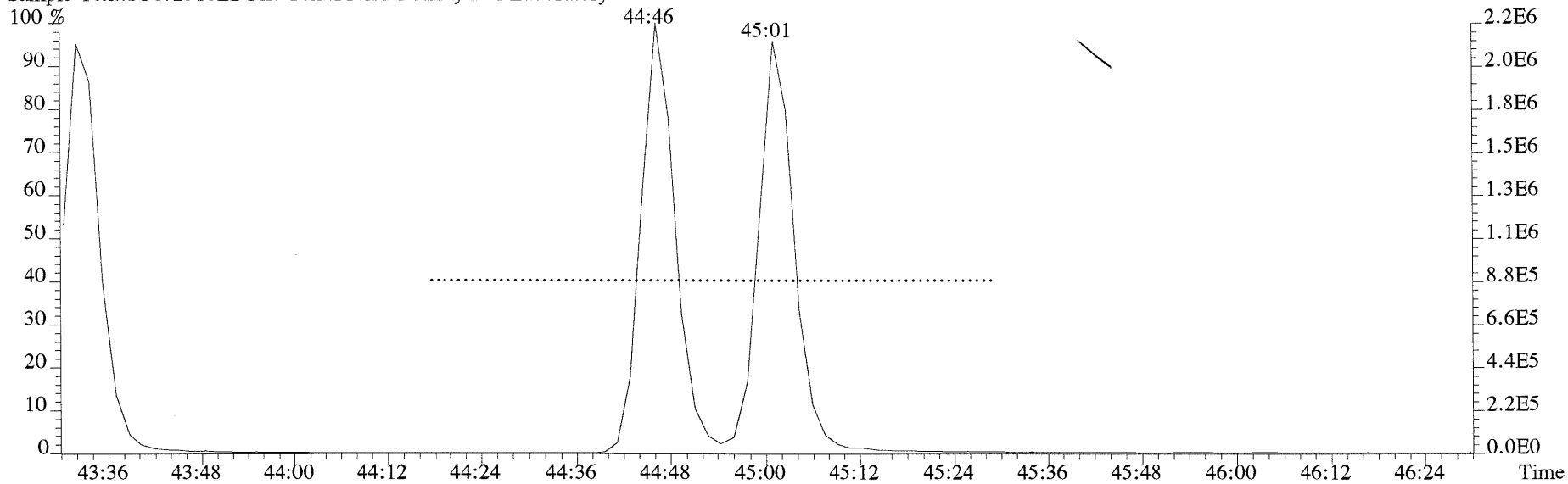








File:23JUL18Z #1-404 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:5 Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



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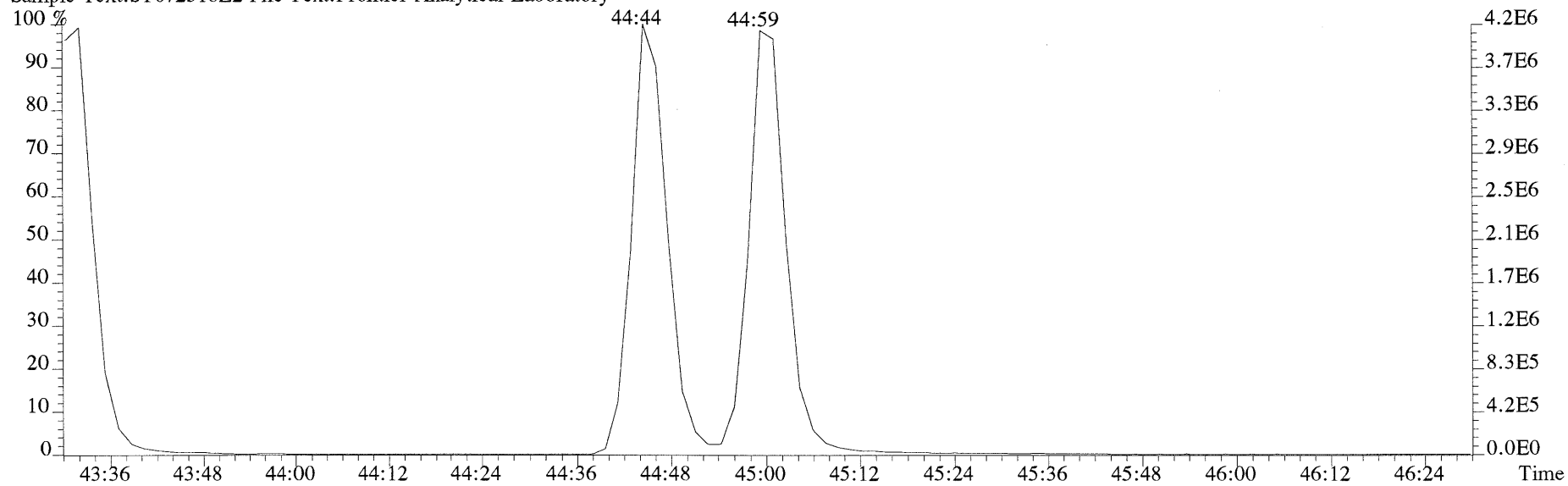
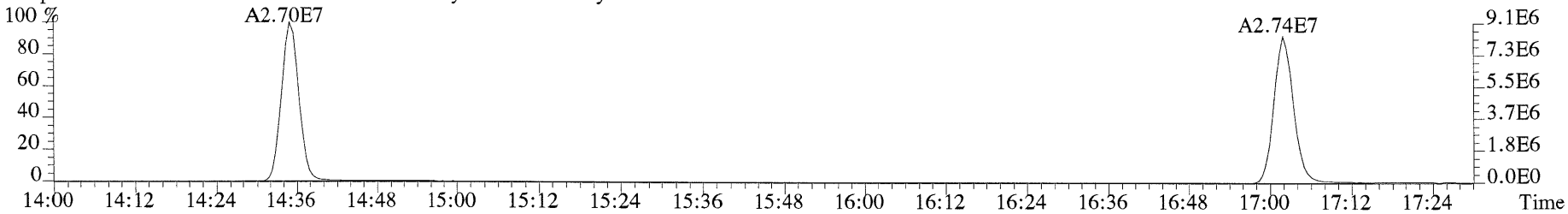


File:23JUL18Z #1-783 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



File:23JUL18Z #1-783 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
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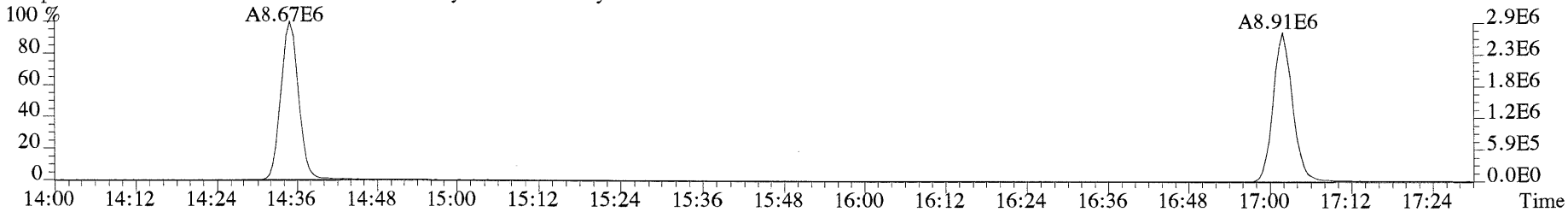
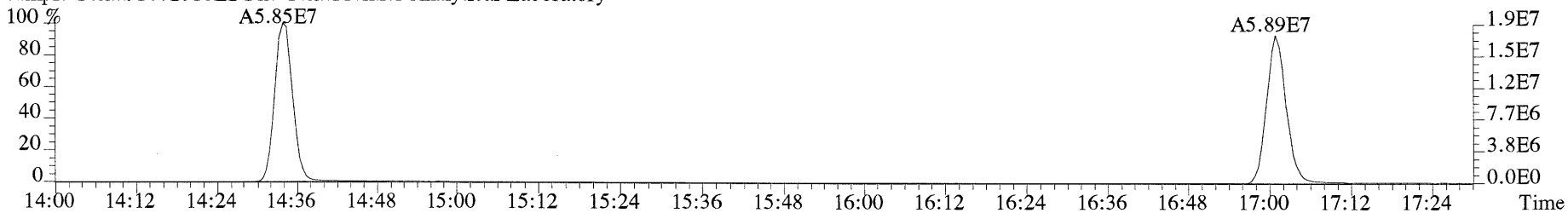
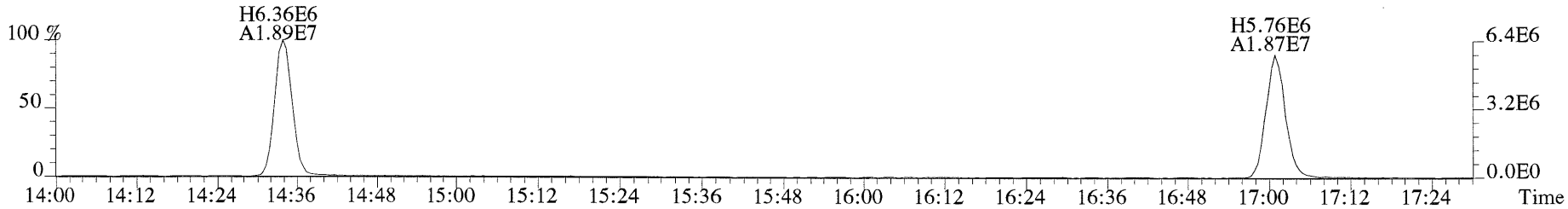


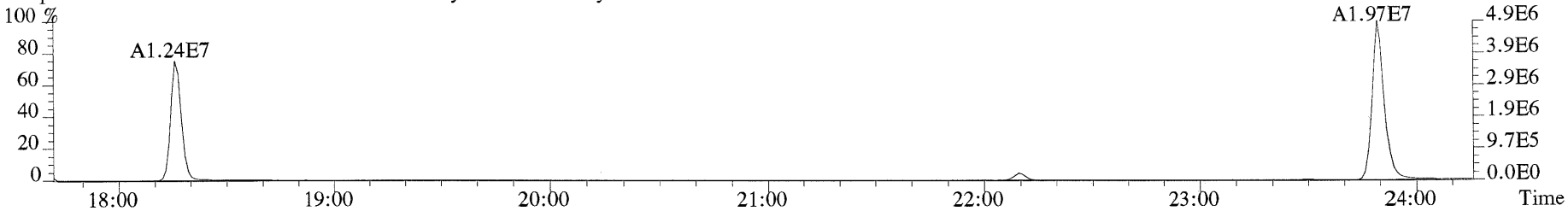
File:23JUL18Z #1-783 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



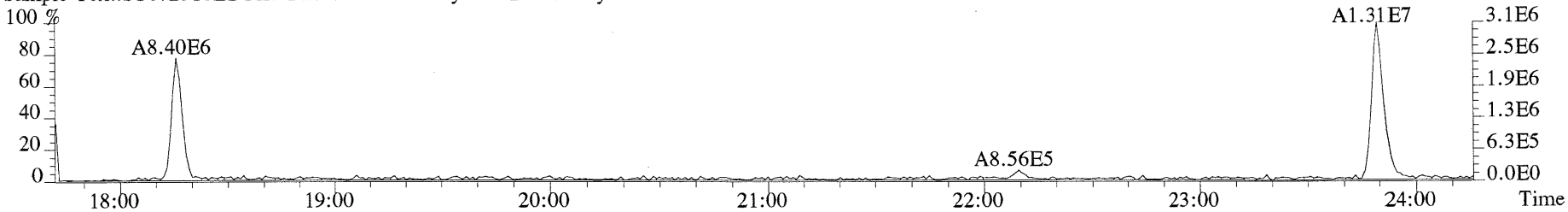
File:23JUL18Z #1-783 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



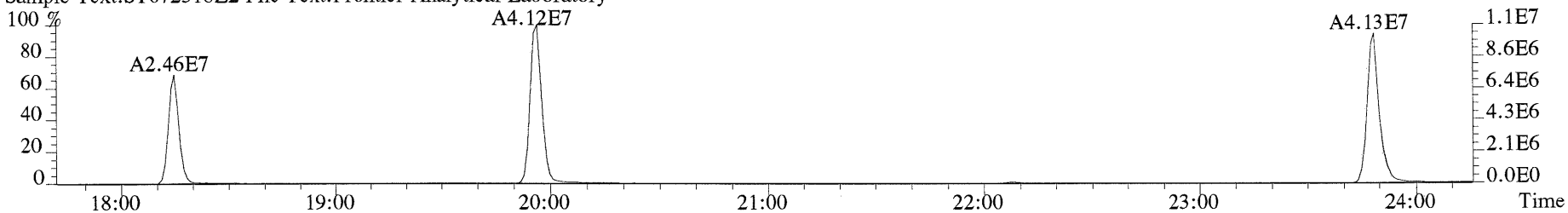
File:23JUL18Z #1-520 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:15 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



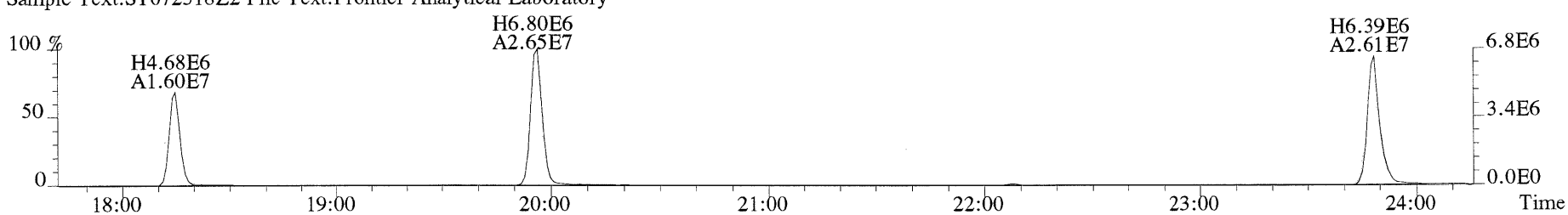
File:23JUL18Z #1-520 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:15 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



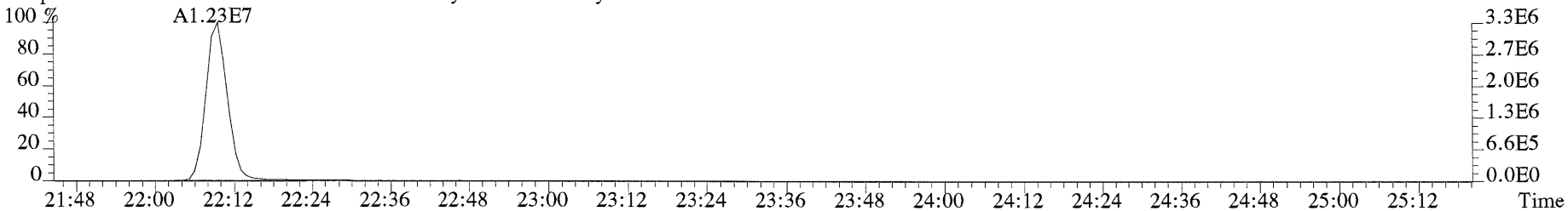
File:23JUL18Z #1-520 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:15 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



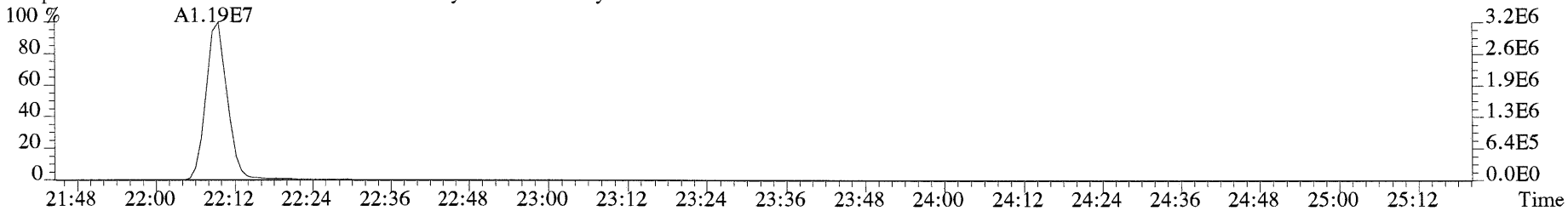
File:23JUL18Z #1-520 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:15 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



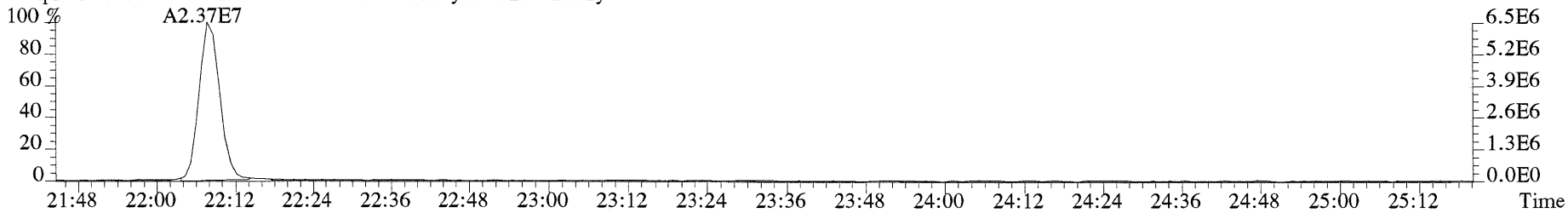
File:23JUL18Z #1-520 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:15 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



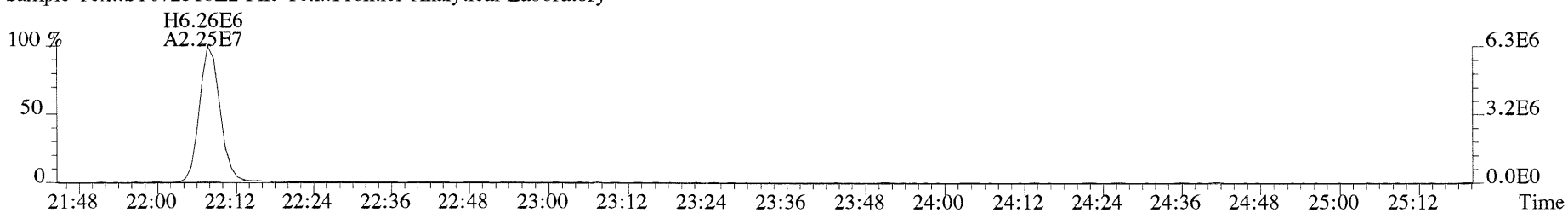
File:23JUL18Z #1-520 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:15 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



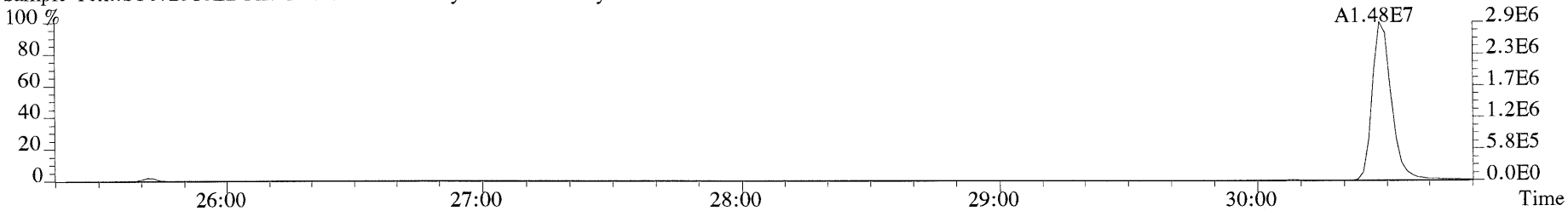
File:23JUL18Z #1-520 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:15 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



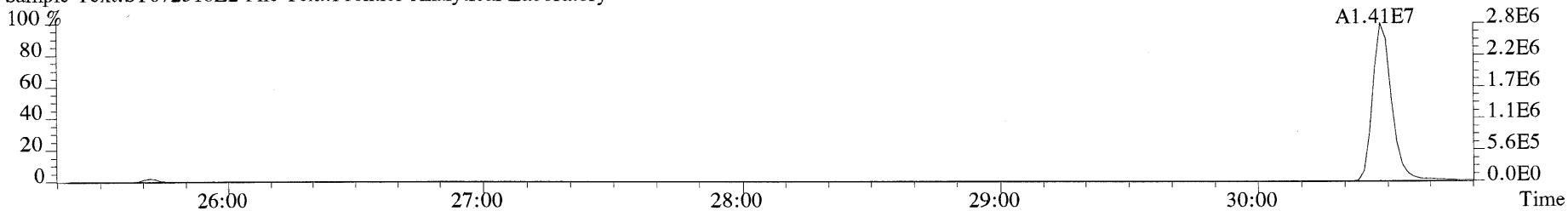
File:23JUL18Z #1-520 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:15 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



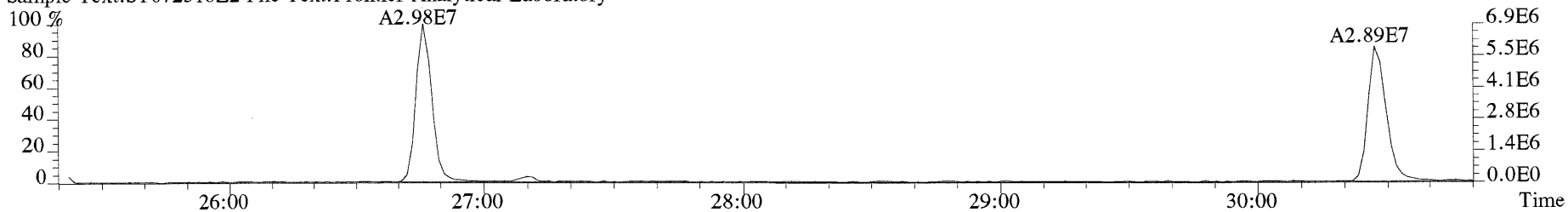
File:23JUL18Z #1-401 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



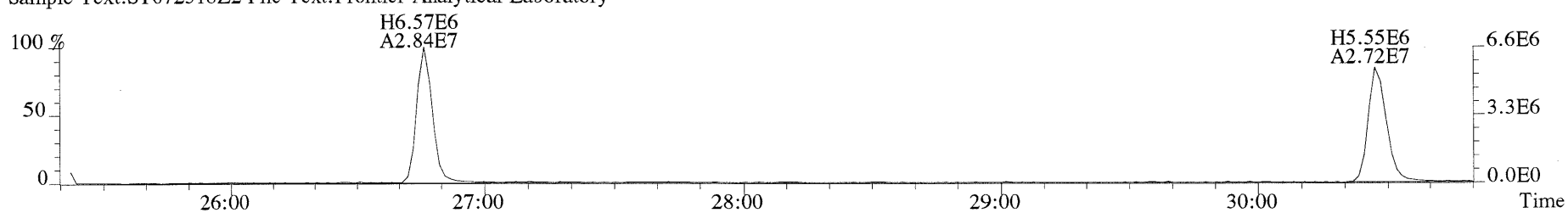
File:23JUL18Z #1-401 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



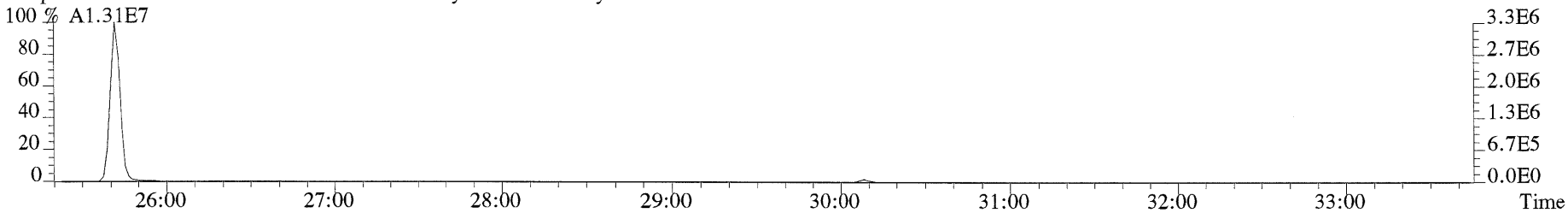
File:23JUL18Z #1-401 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



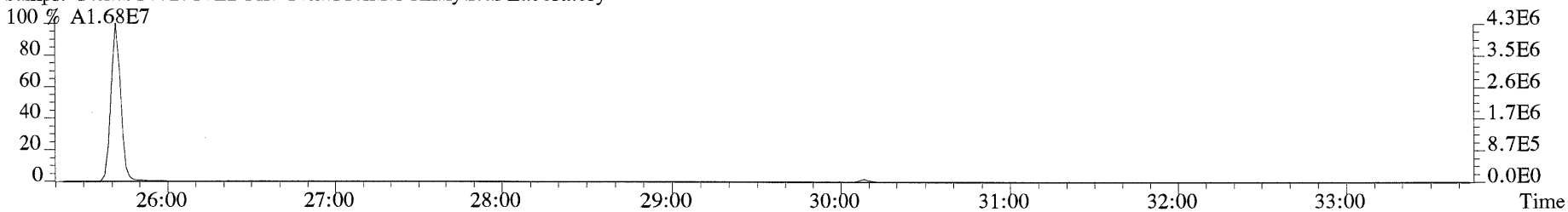
File:23JUL18Z #1-401 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



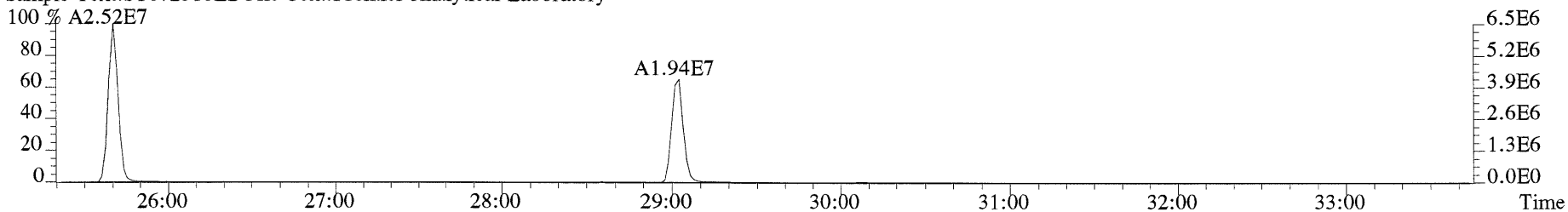
File:23JUL18Z #1-401 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



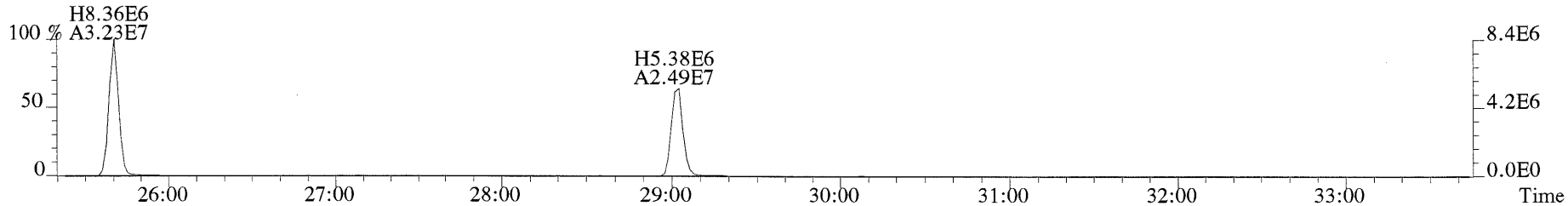
File:23JUL18Z #1-401 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



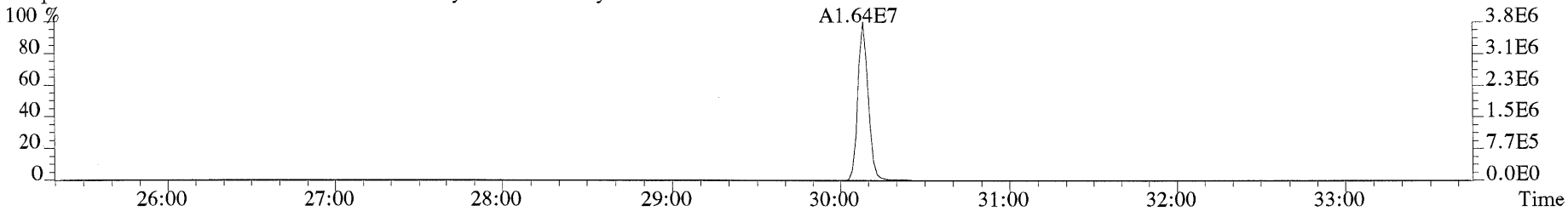
File:23JUL18Z #1-401 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



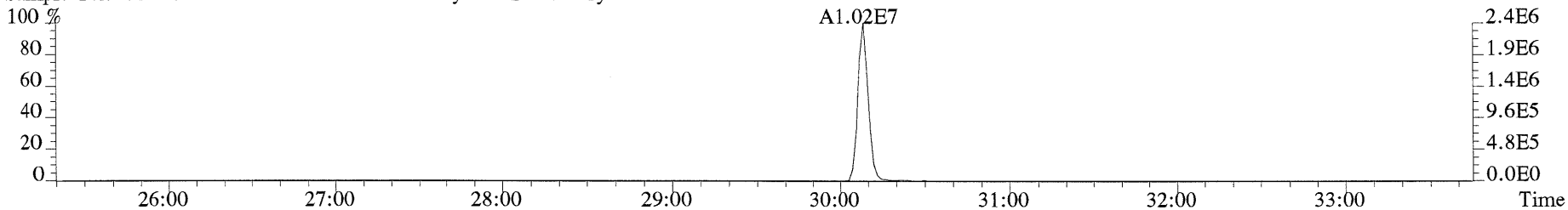
File:23JUL18Z #1-401 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



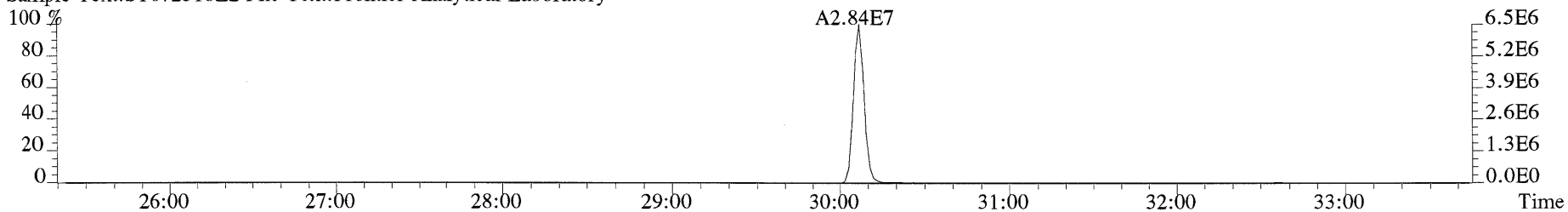
File:23JUL18Z #1-401 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



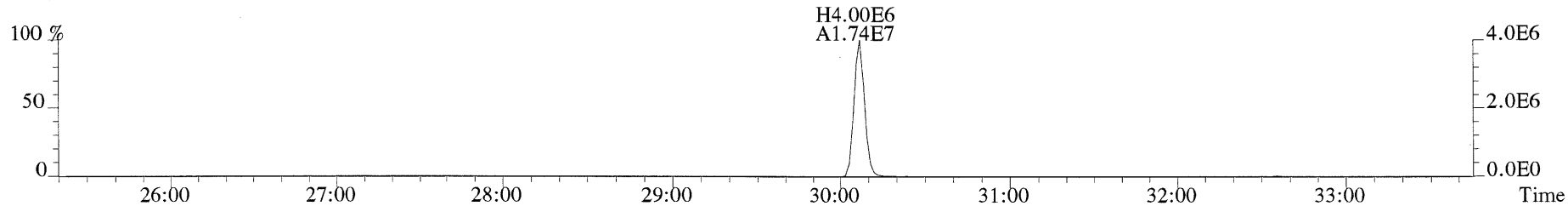
File:23JUL18Z #1-401 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



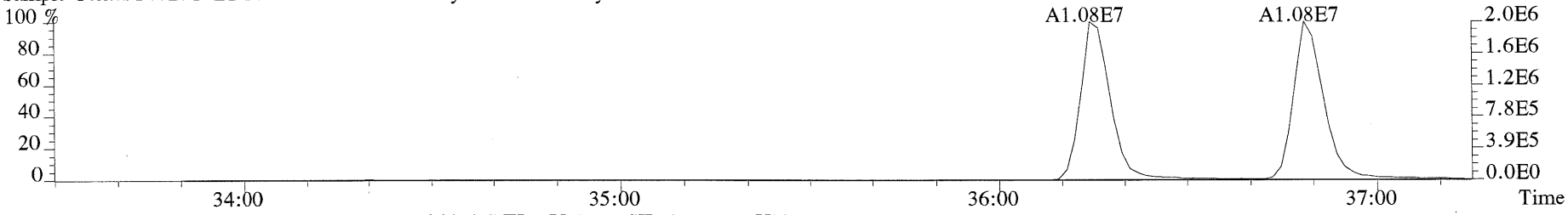
File:23JUL18Z #1-401 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



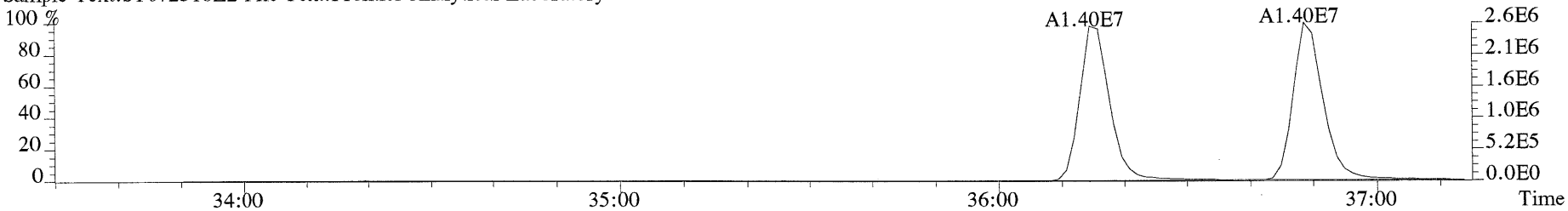
File:23JUL18Z #1-401 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



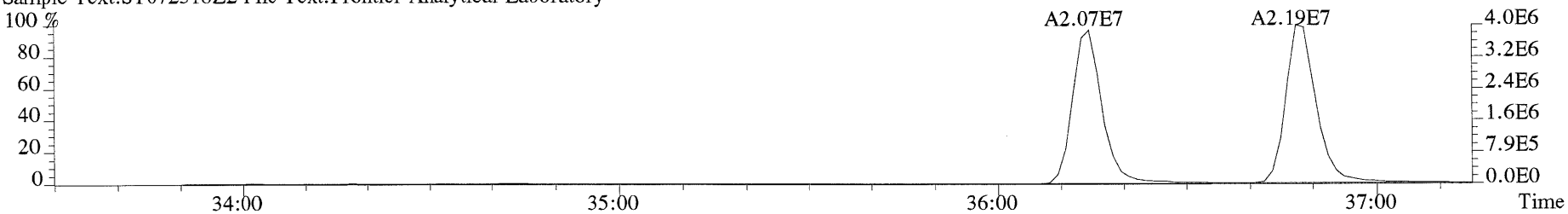
File:23JUL18Z #1-183 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



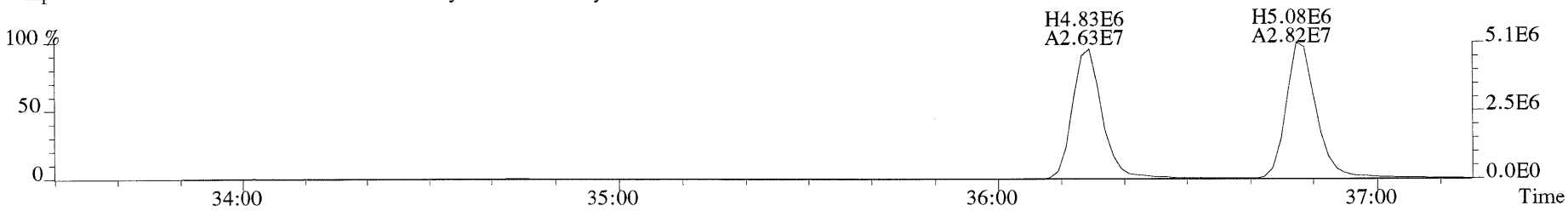
File:23JUL18Z #1-183 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



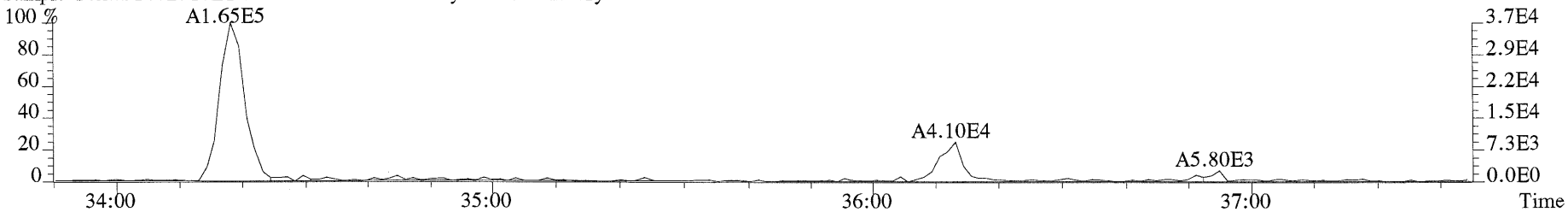
File:23JUL18Z #1-183 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



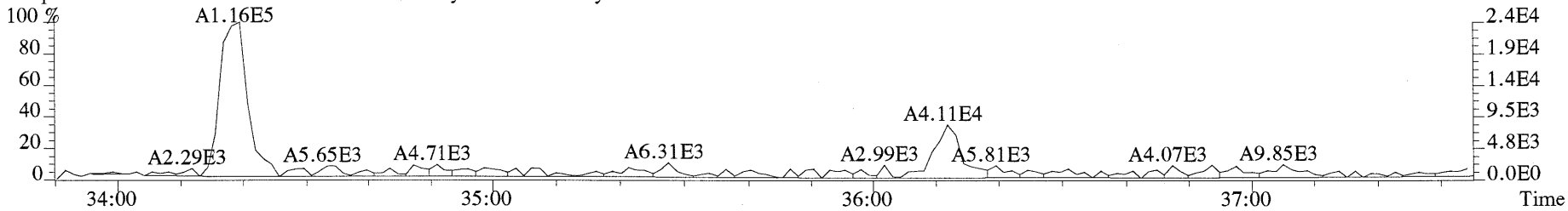
File:23JUL18Z #1-183 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



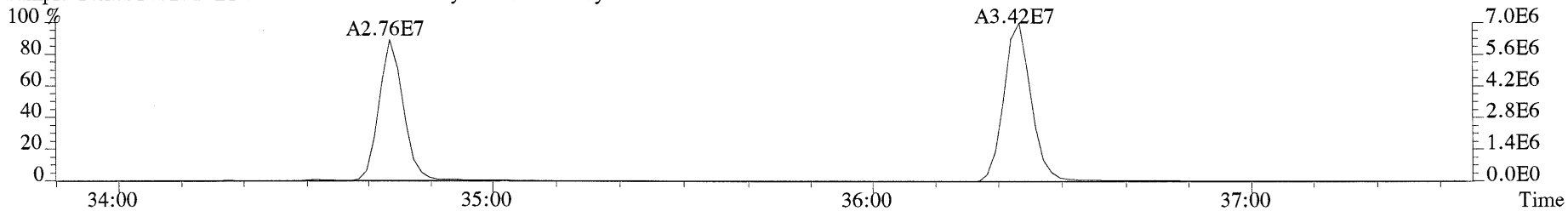
File:23JUL18Z #1-183 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



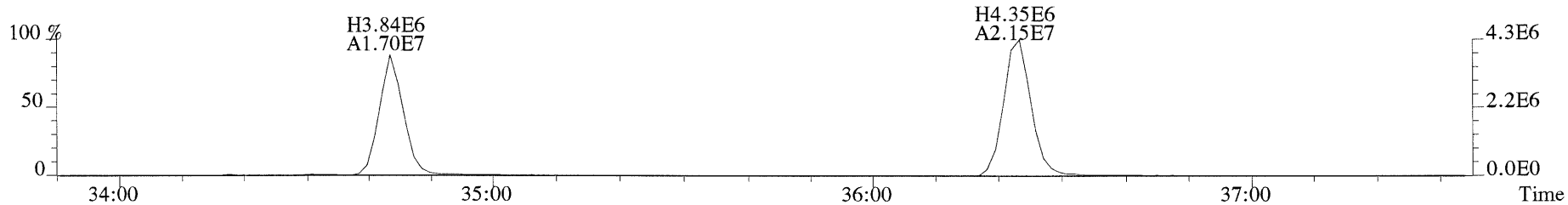
File:23JUL18Z #1-183 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



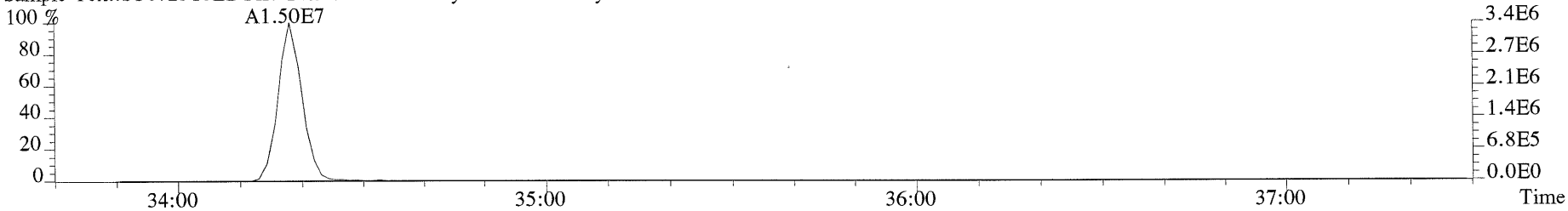
File:23JUL18Z #1-183 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



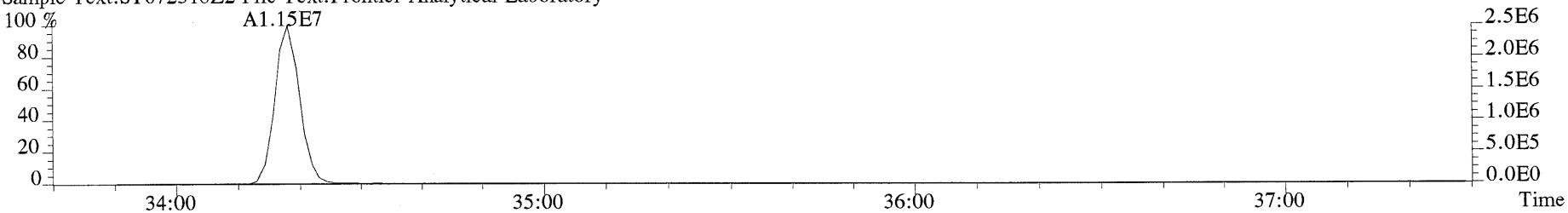
File:23JUL18Z #1-183 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



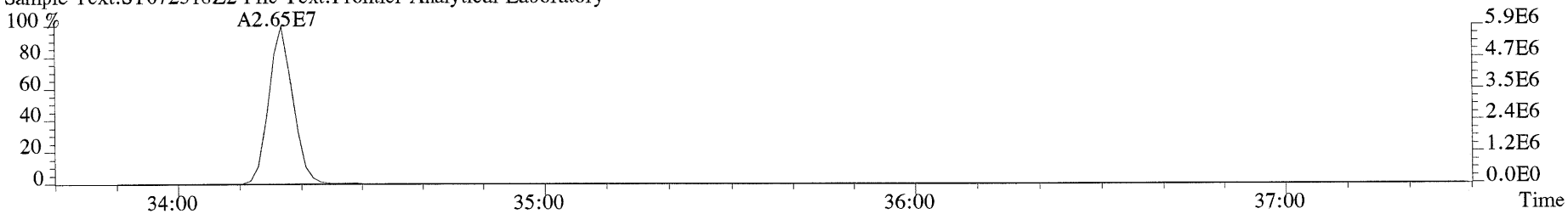
File:23JUL18Z #1-183 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



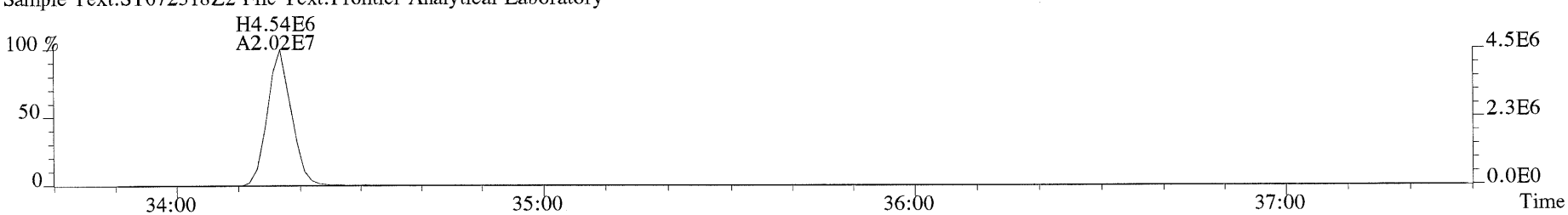
File:23JUL18Z #1-183 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



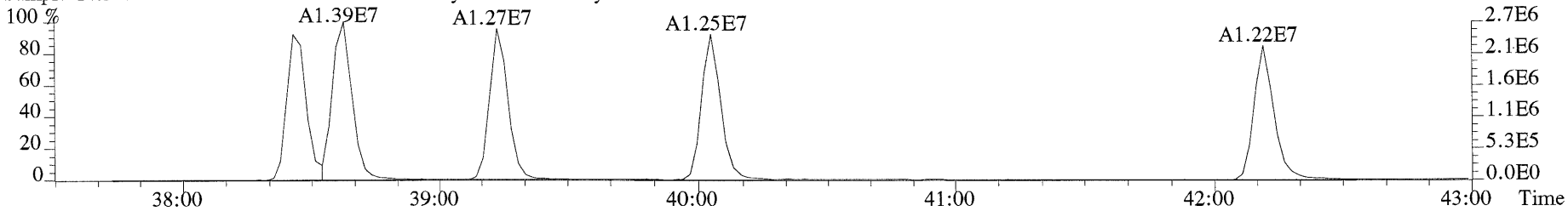
File:23JUL18Z #1-183 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



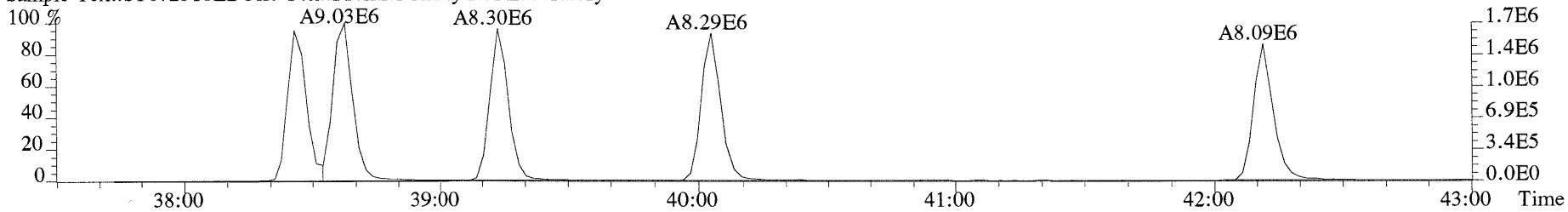
File:23JUL18Z #1-183 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



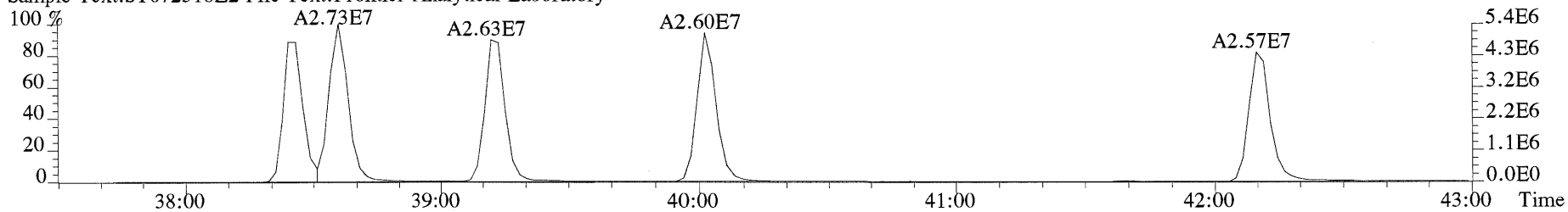
File:23JUL18Z #1-404 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



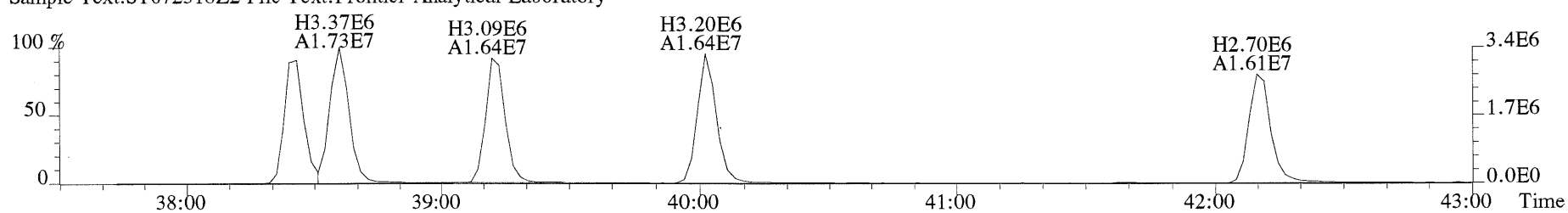
File:23JUL18Z #1-404 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



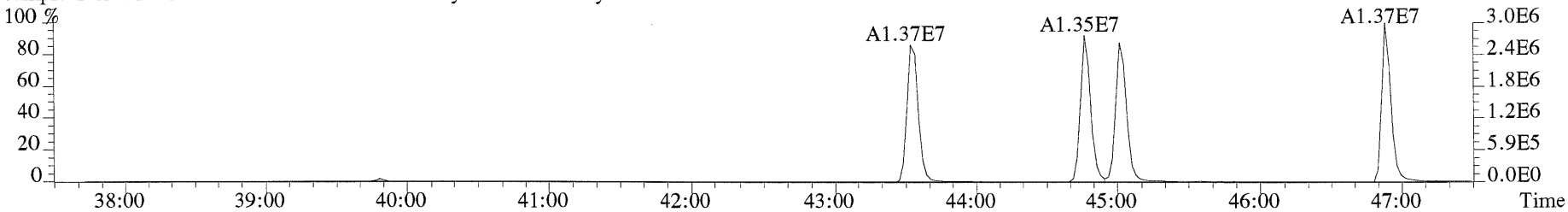
File:23JUL18Z #1-404 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



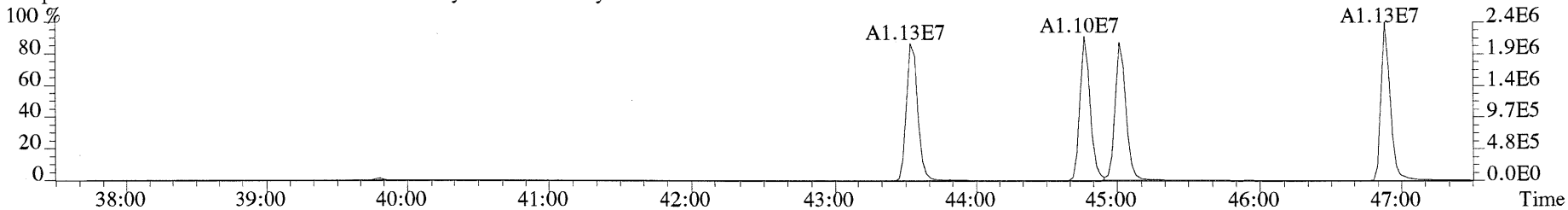
File:23JUL18Z #1-404 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



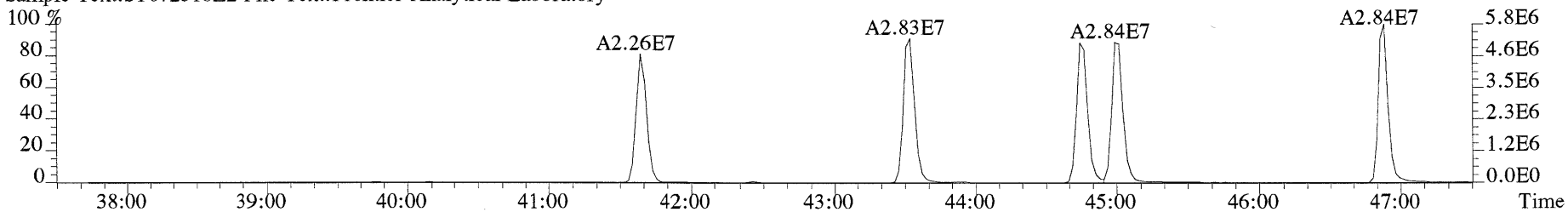
File:23JUL18Z #1-404 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



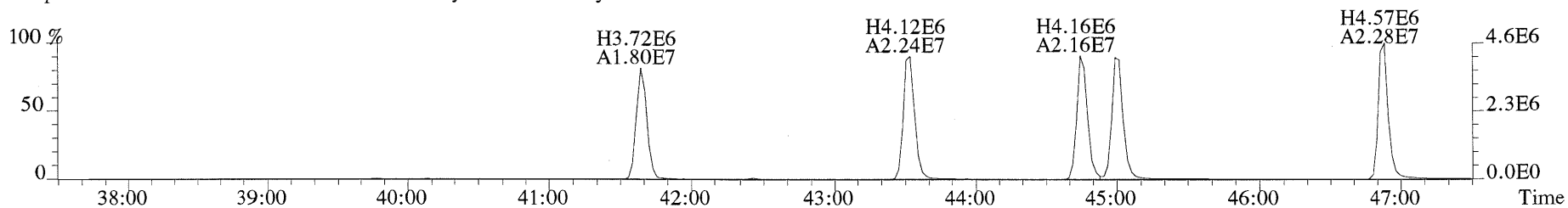
File:23JUL18Z #1-404 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



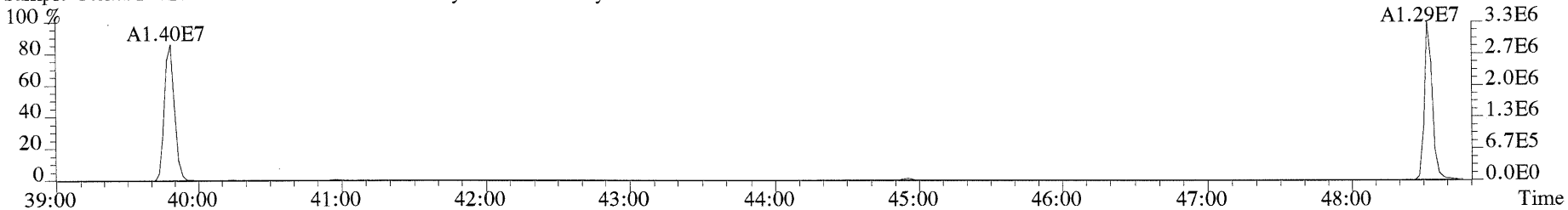
File:23JUL18Z #1-404 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



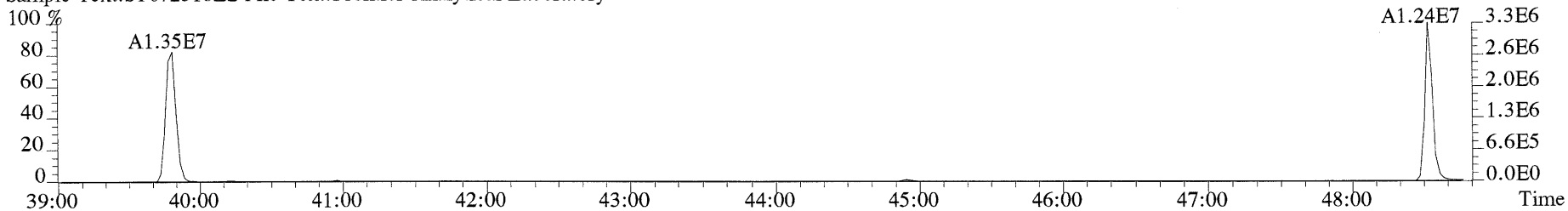
File:23JUL18Z #1-404 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



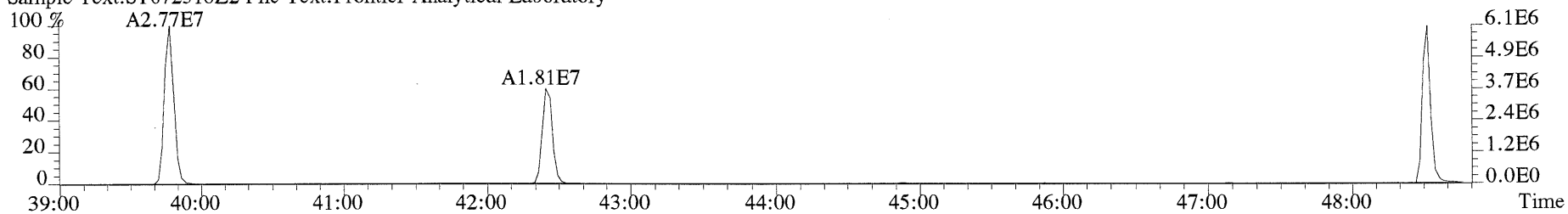
File:23JUL18Z #1-404 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



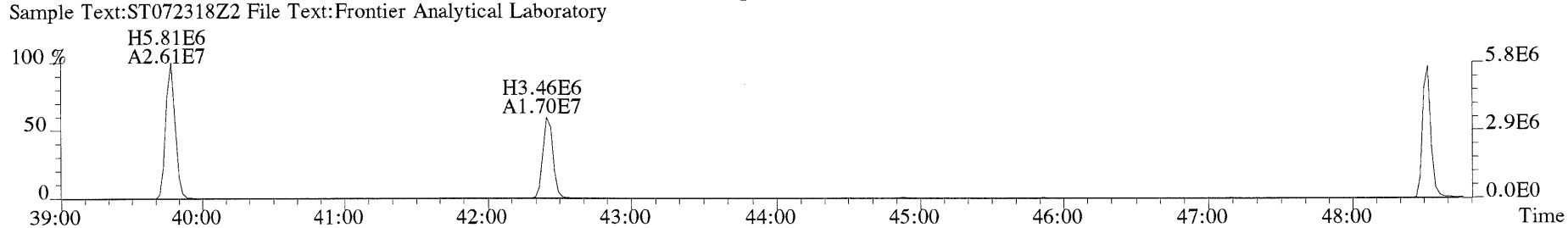
File:23JUL18Z #1-404 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



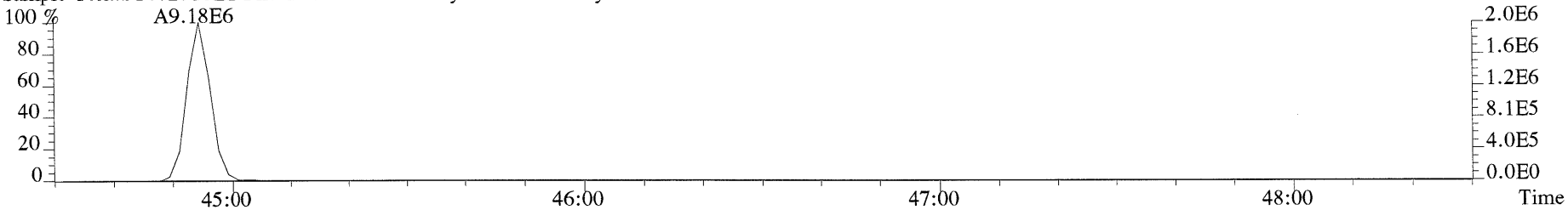
File:23JUL18Z #1-404 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



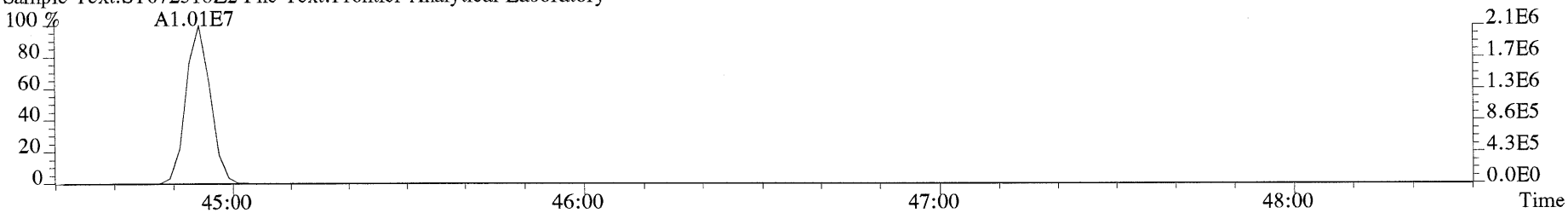
File:23JUL18Z #1-404 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



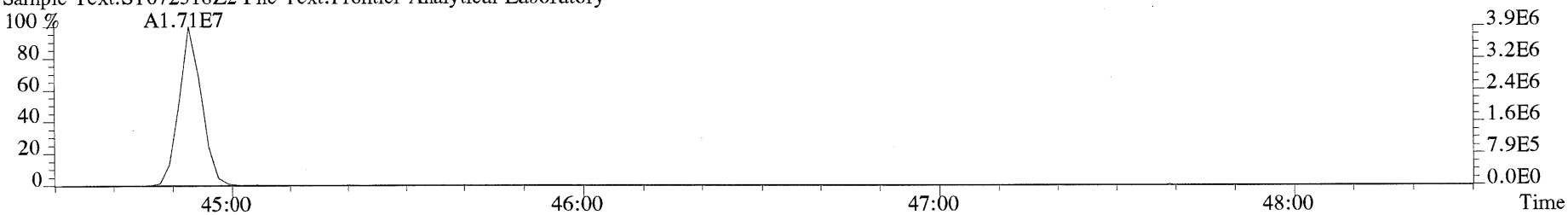
File:23JUL18Z #1-404 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



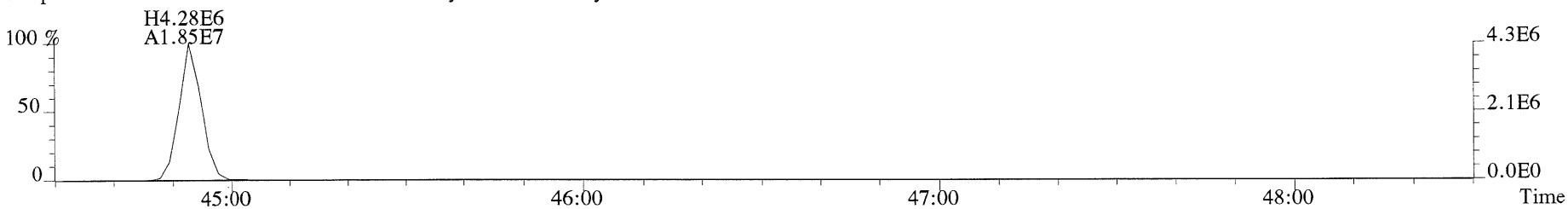
File:23JUL18Z #1-404 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



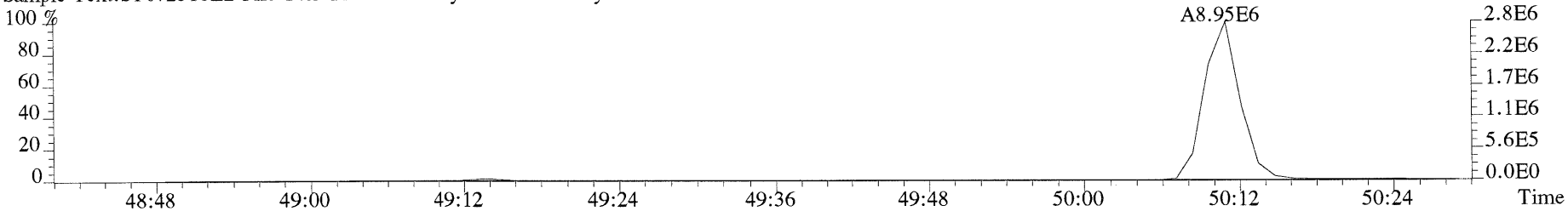
File:23JUL18Z #1-404 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



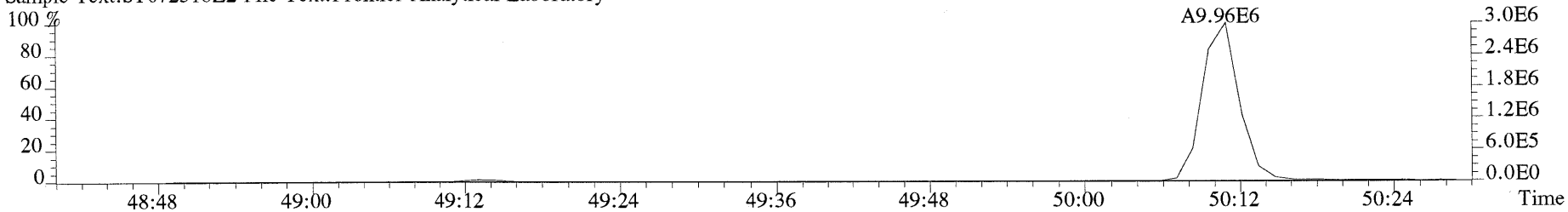
File:23JUL18Z #1-404 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



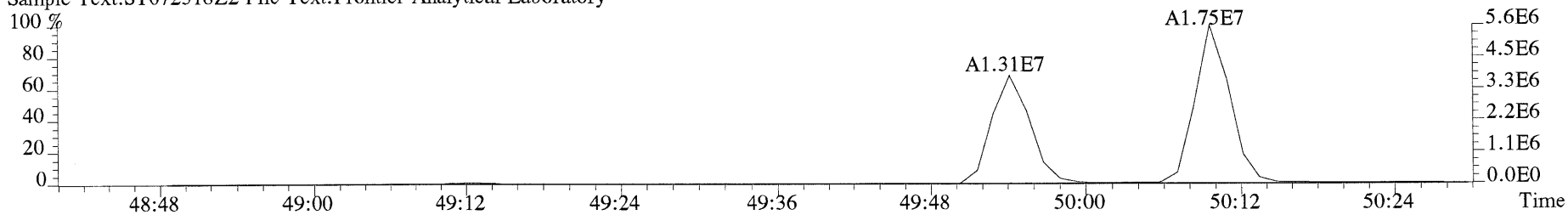
File:23JUL18Z #1-314 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



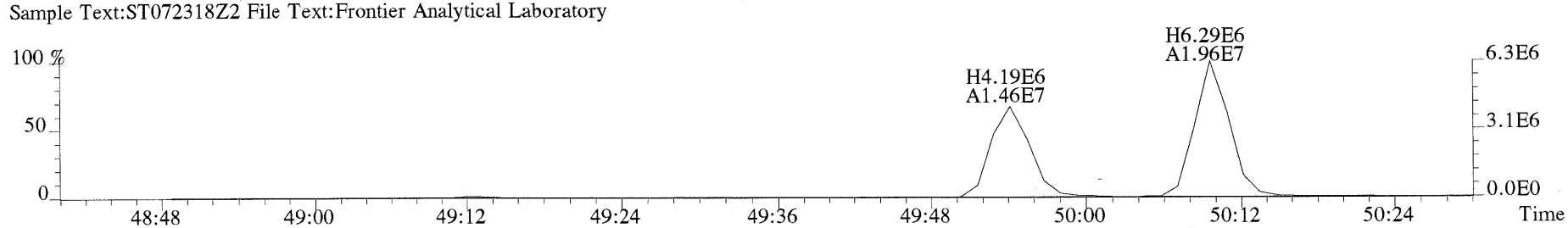
File:23JUL18Z #1-314 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



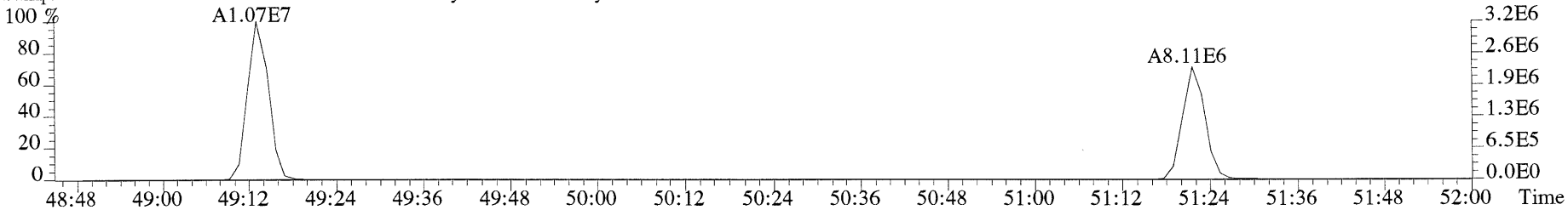
File:23JUL18Z #1-314 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



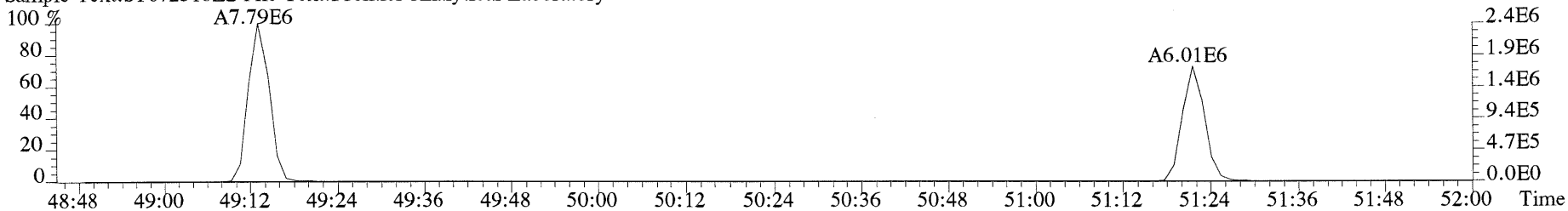
File:23JUL18Z #1-314 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



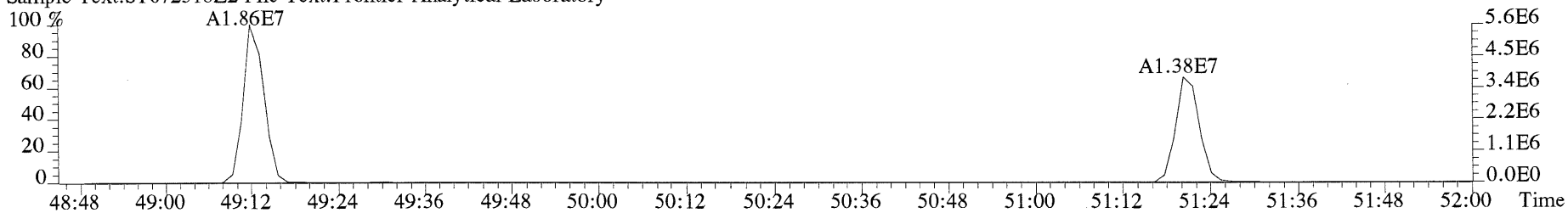
File:23JUL18Z #1-314 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



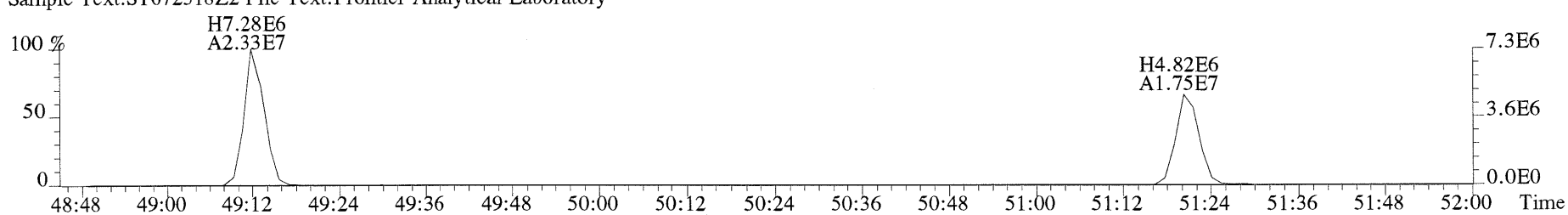
File:23JUL18Z #1-314 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



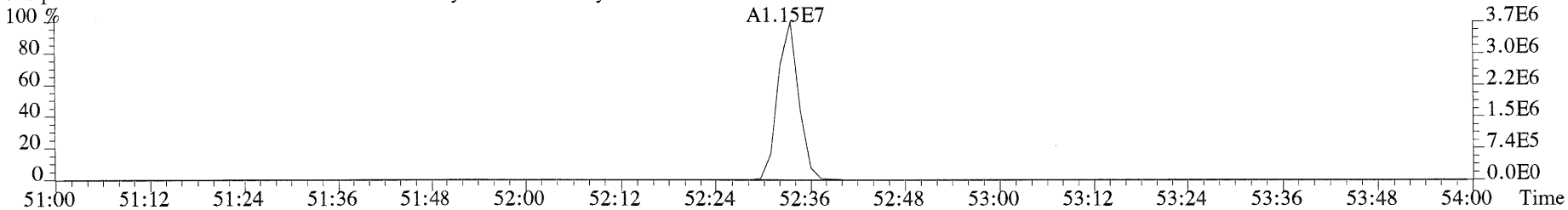
File:23JUL18Z #1-314 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



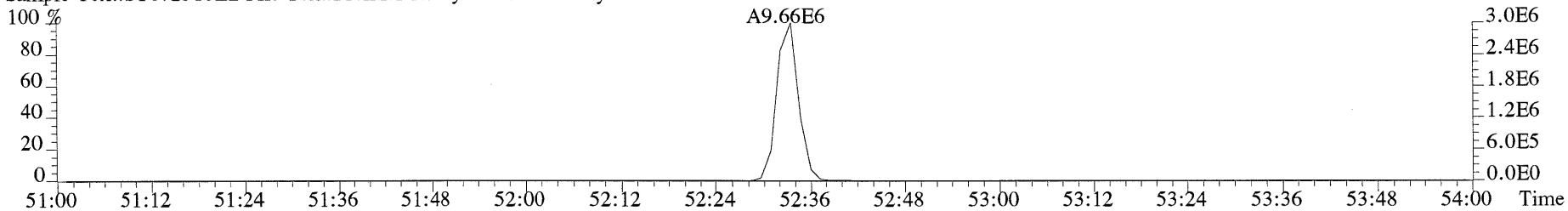
File:23JUL18Z #1-314 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



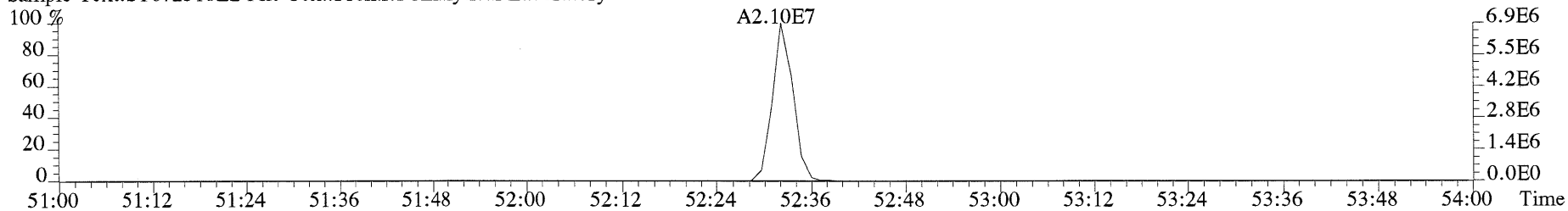
File:23JUL18Z #1-314 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



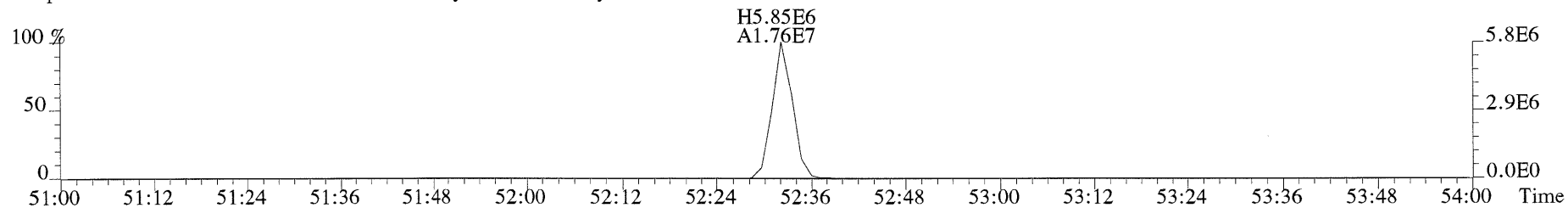
File:23JUL18Z #1-314 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory



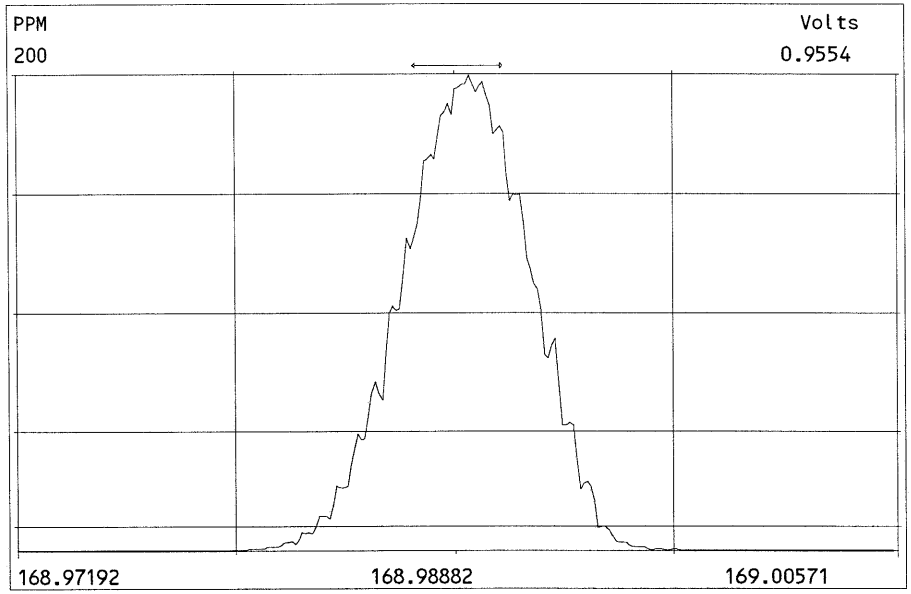
File:23JUL18Z #1-314 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory

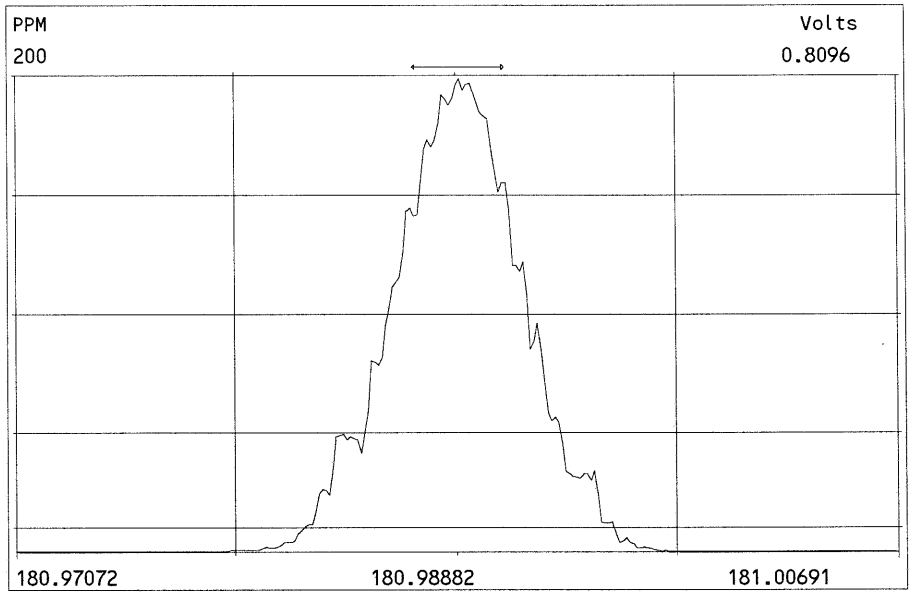


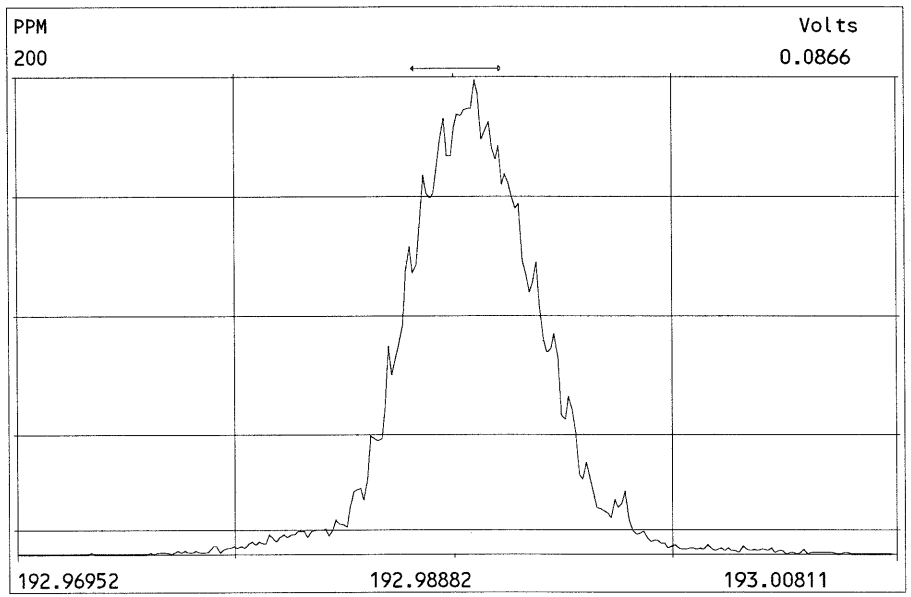
File:23JUL18Z #1-314 Acq:24-JUL-2018 04:26:09 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072318Z2 File Text:Frontier Analytical Laboratory

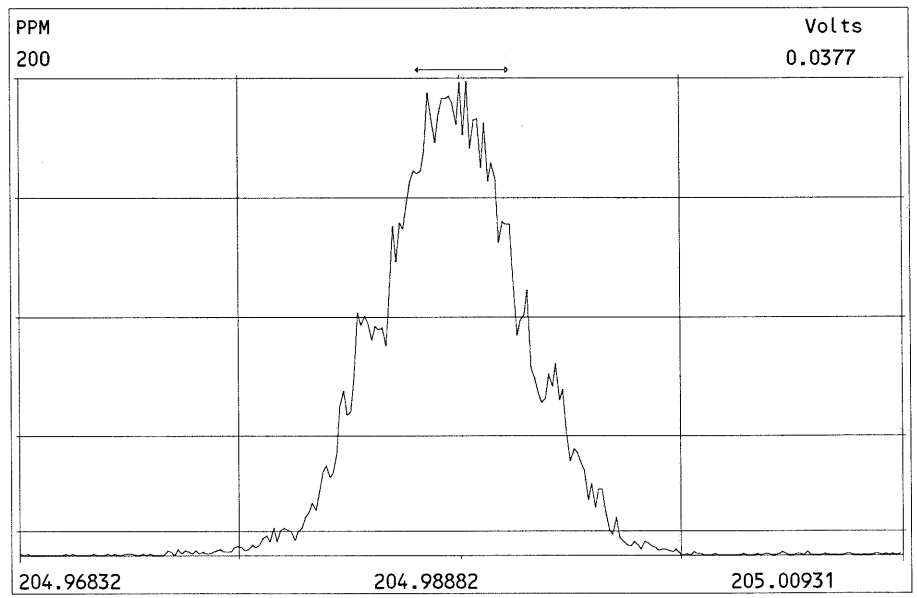


Peak Locate Examination:24-JUL-2018:05:31 File:23JUL18Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

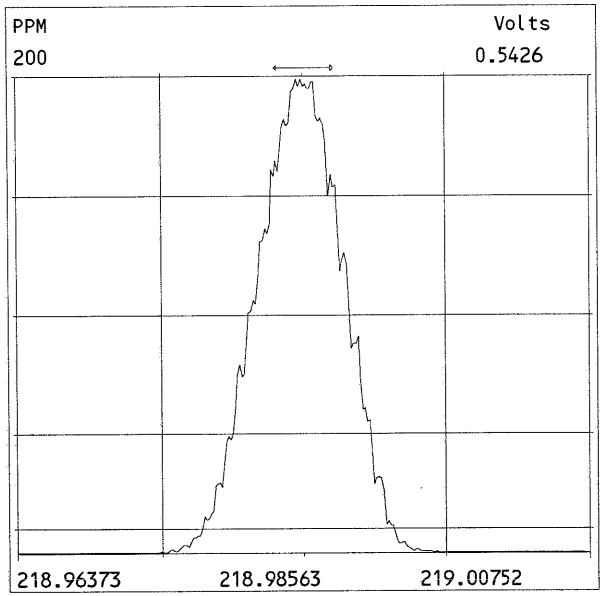


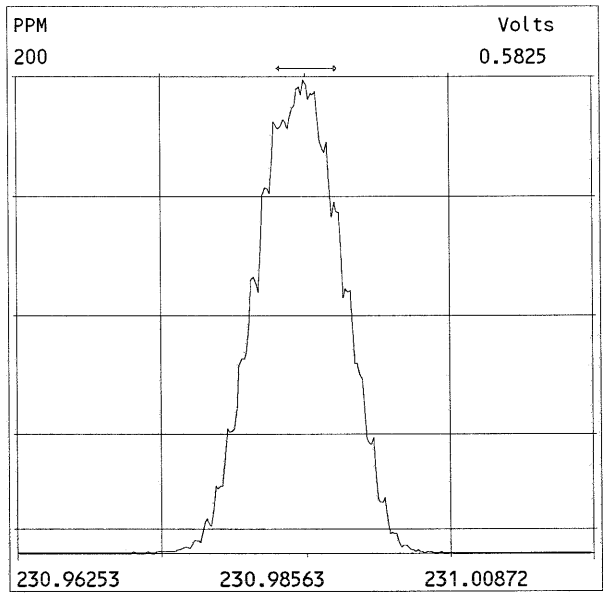


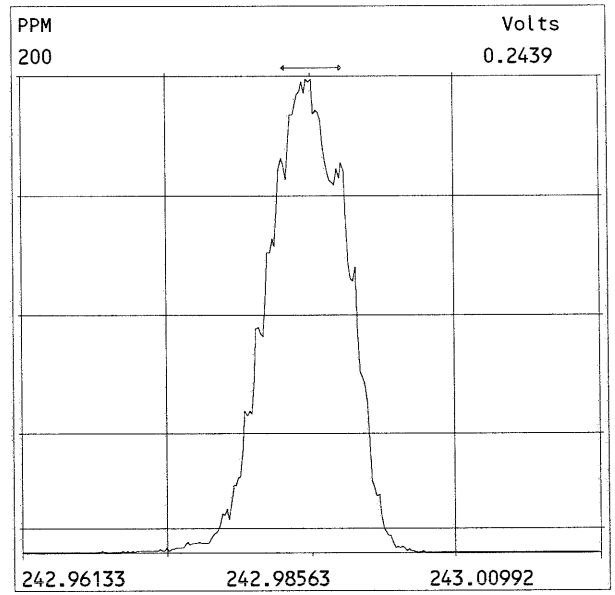


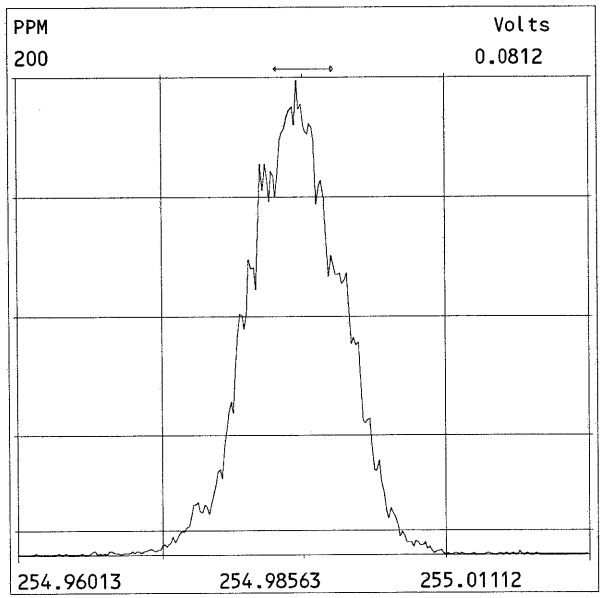


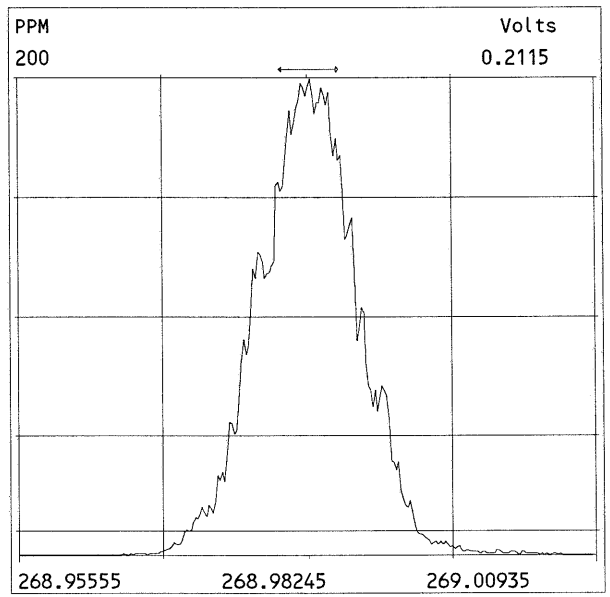
Peak Locate Examination:24-JUL-2018:05:32 File:23JUL18Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

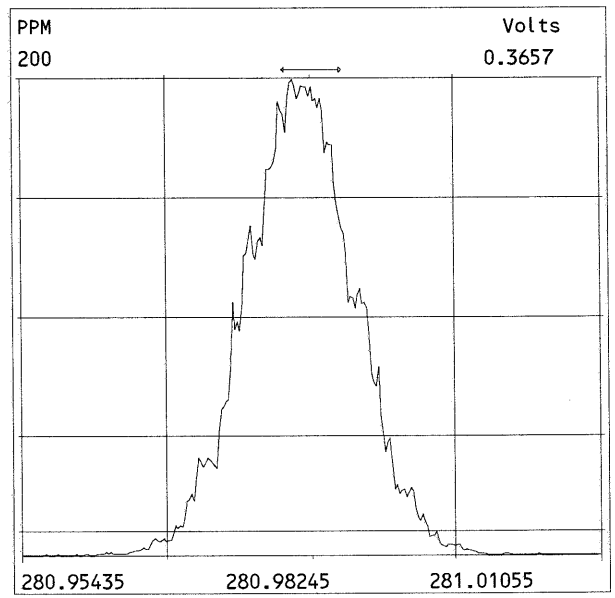




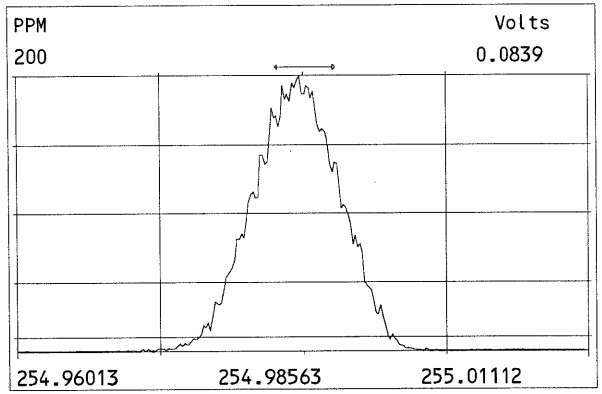


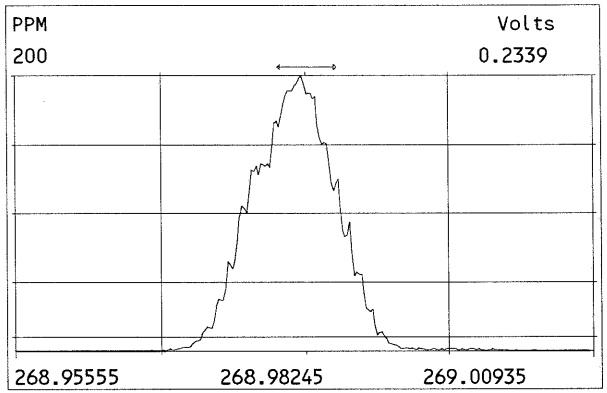


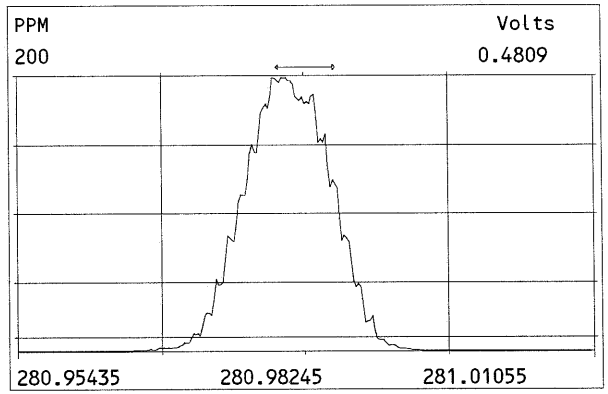


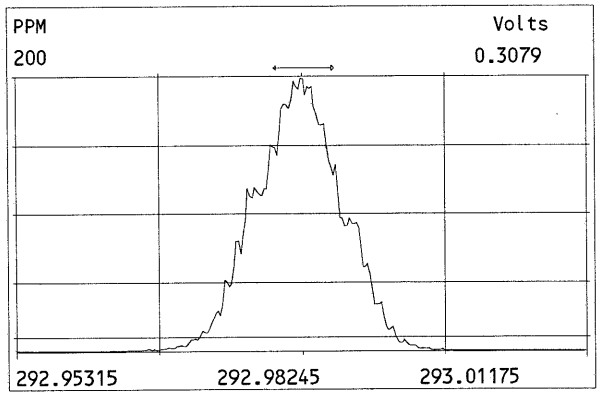


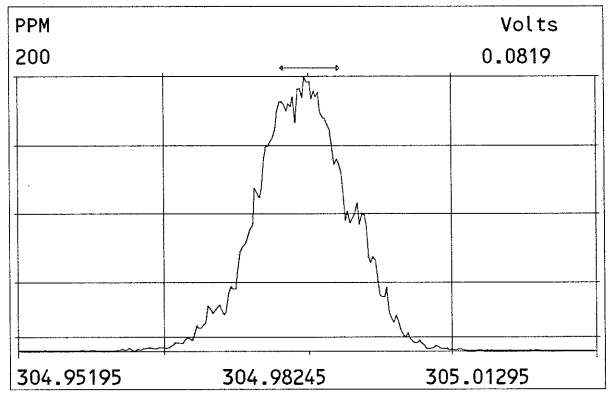
Peak Locate Examination:24-JUL-2018:05:32 File:23JUL18Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

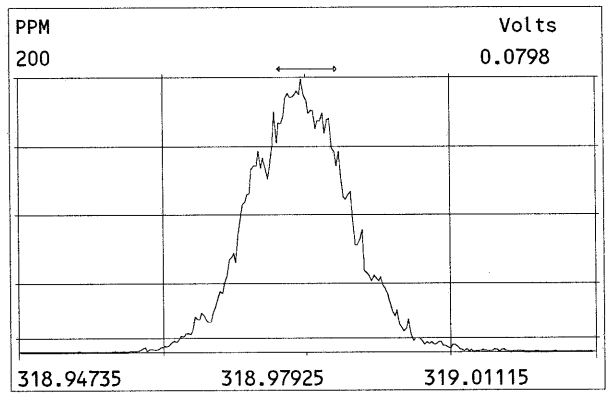


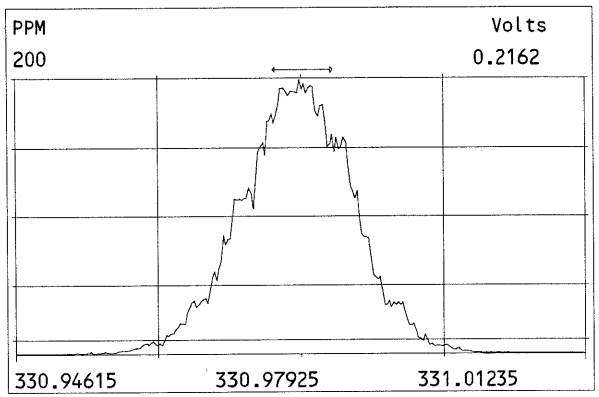


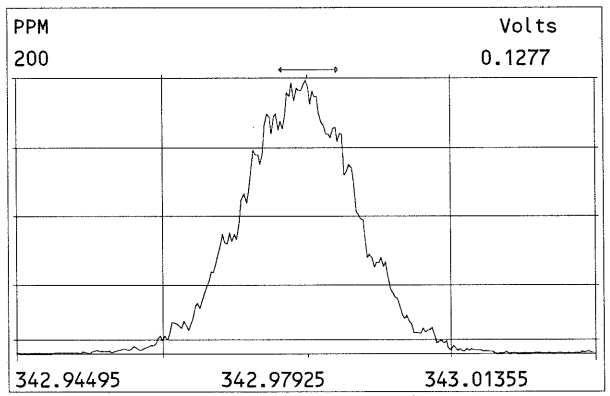




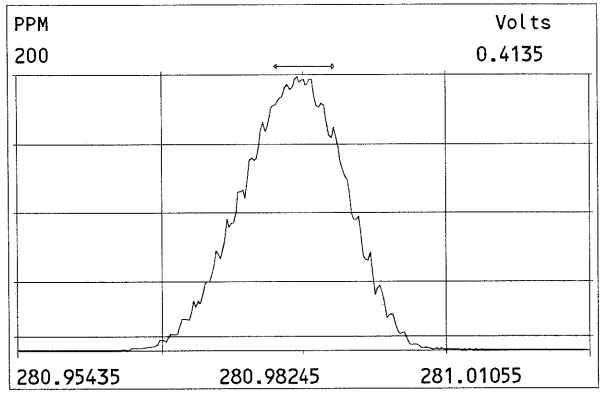


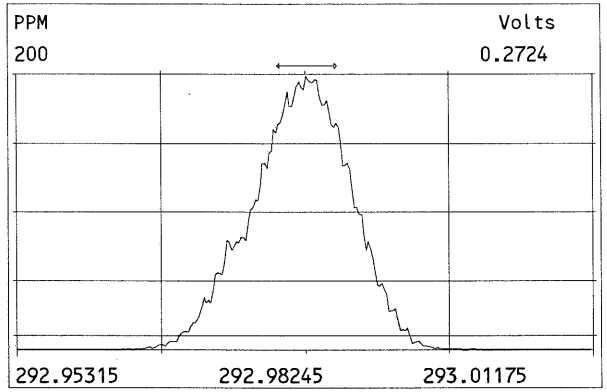


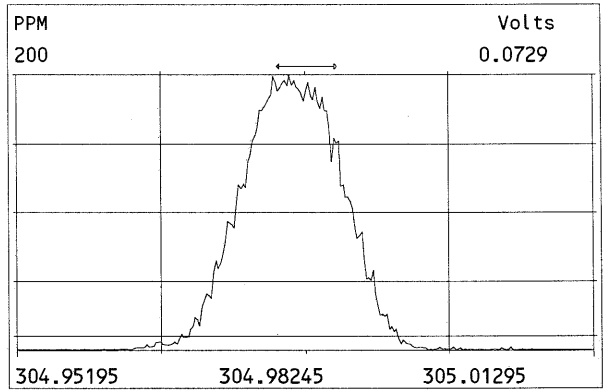


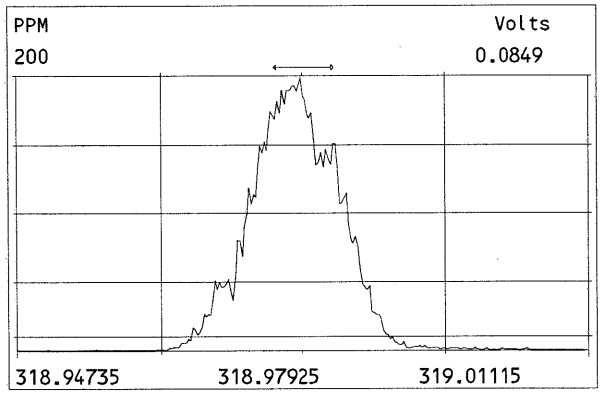


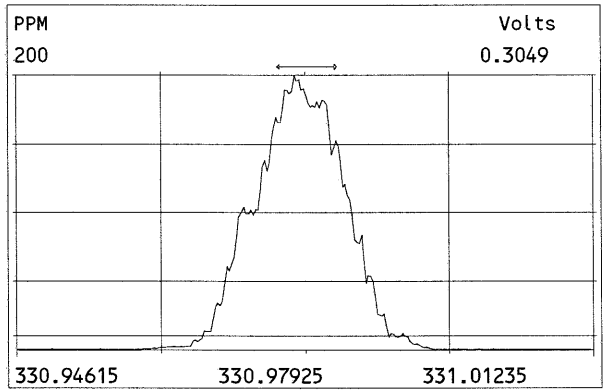
Peak Locate Examination:24-JUL-2018:05:33 File:23JUL18Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

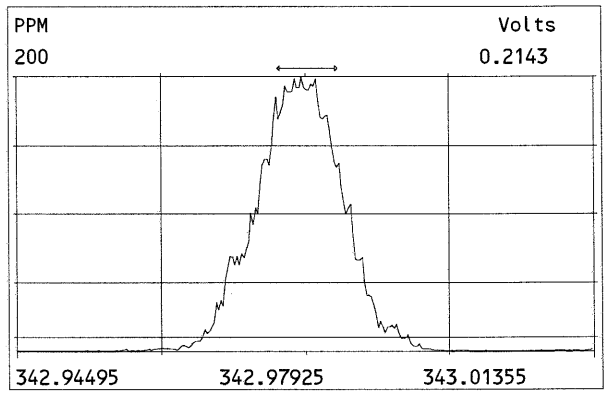


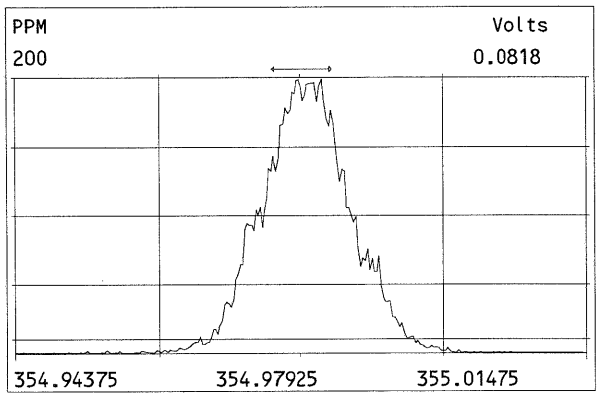


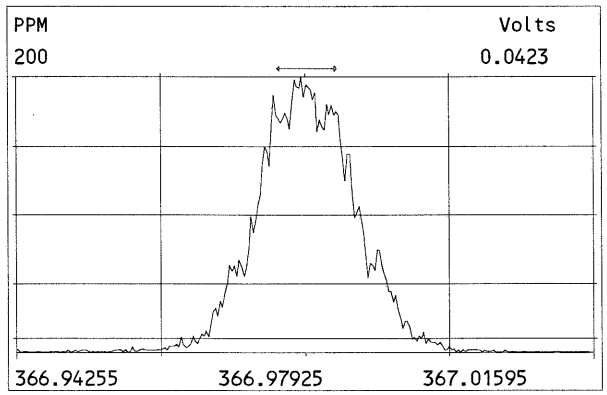


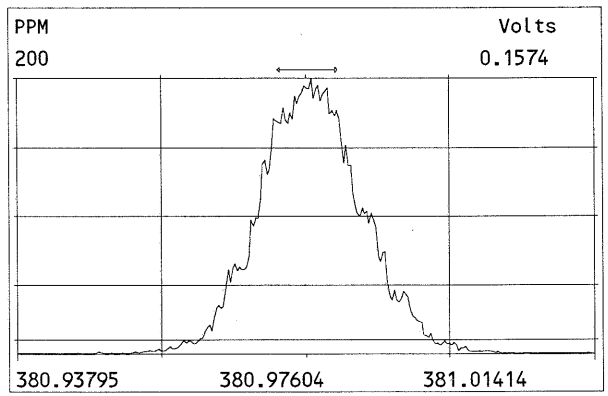




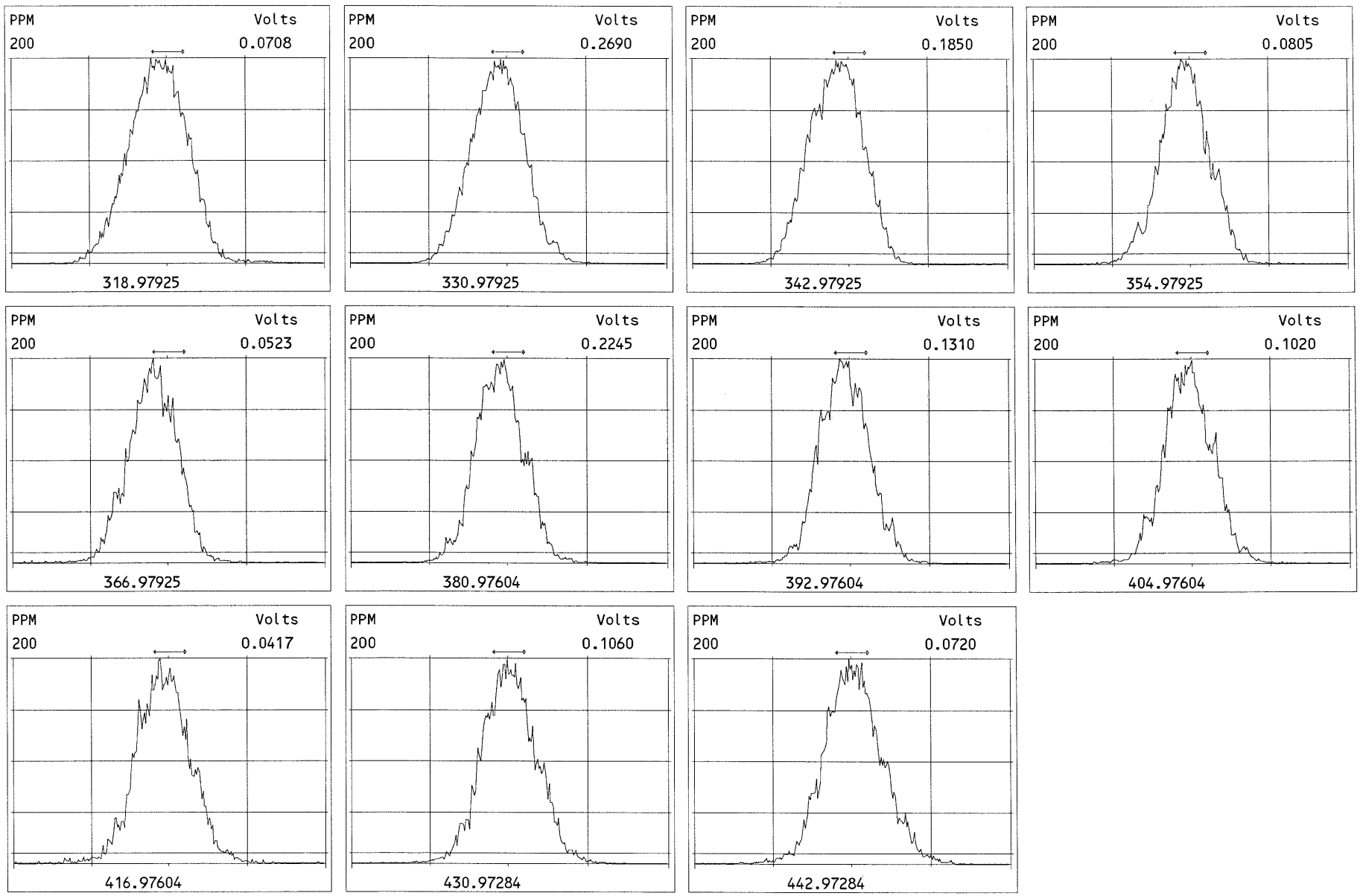




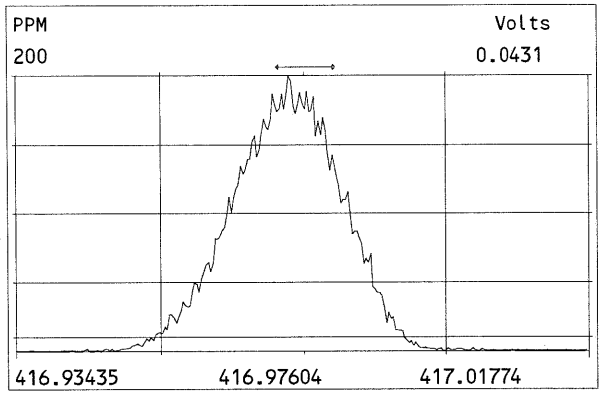


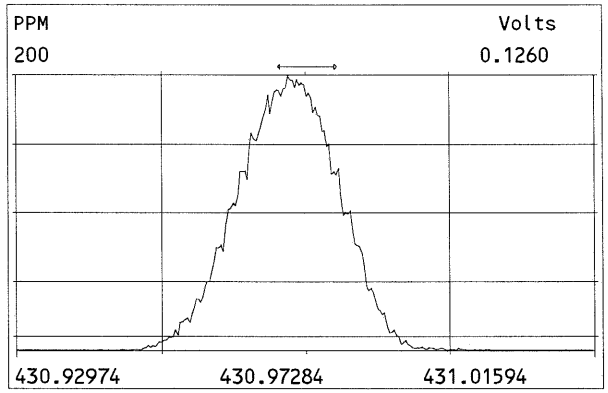


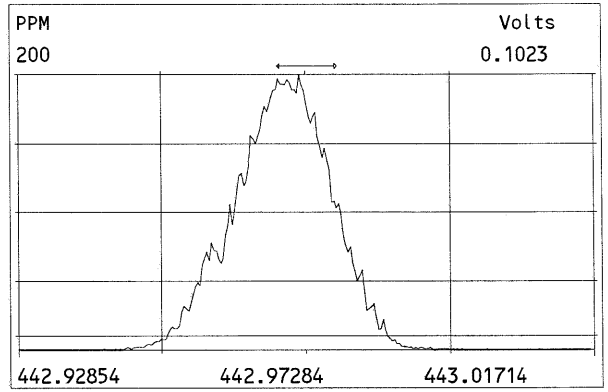
Peak Locate Examination:24-JUL-2018:05:33 File:23JUL18Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

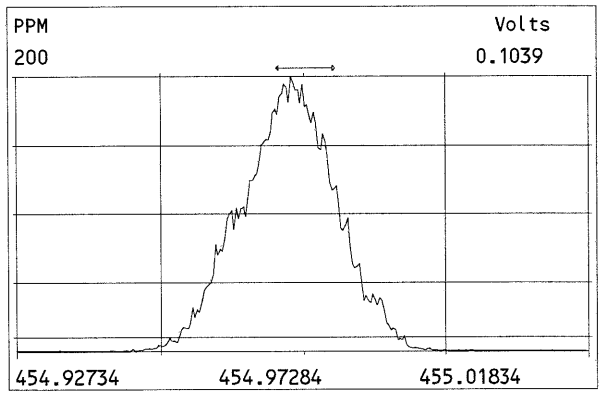


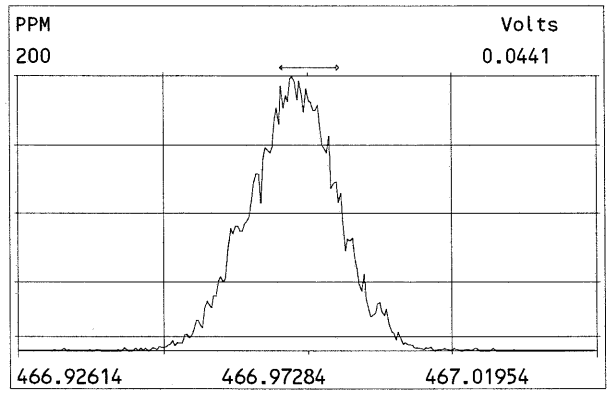
Peak Locate Examination:24-JUL-2018:05:34 File:23JUL18Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

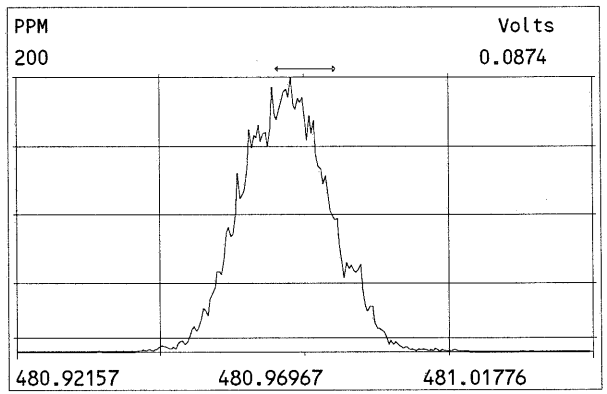


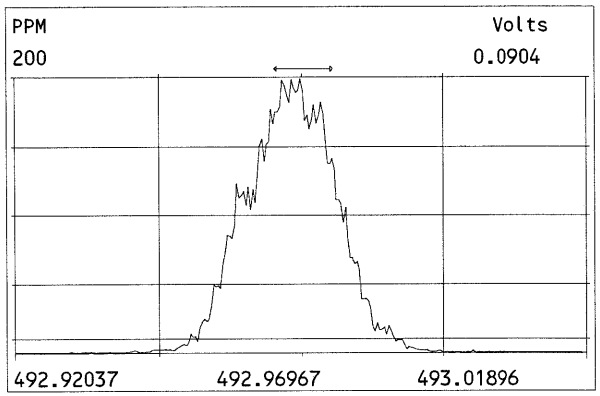


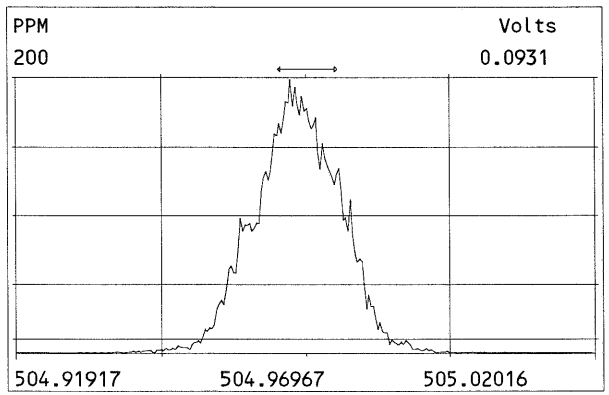


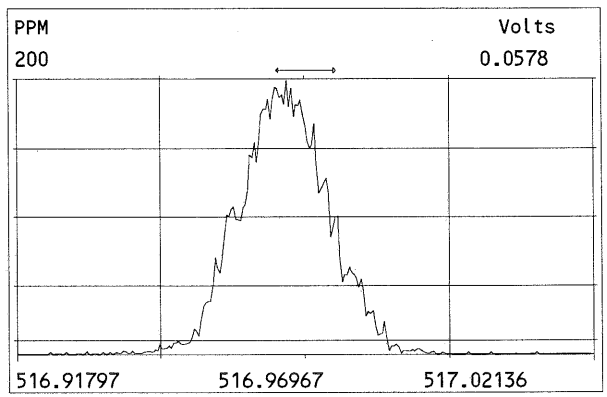












Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 24JUL18Z Sam:1 Analysis Date: 24-JUL-18 12:05:09

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	46.3	37.5 - 62.5
PCB-3	M/M+2	3.14	2.66-3.60	y	47.5	37.5 - 62.5
PCB-4	M/M+2	1.54	1.33-1.79	y	47.4	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	48.6	37.5 - 62.5
PCB-19	M/M+2	1.05	0.88-1.20	y	46.8	37.5 - 62.5
PCB-37	M/M+2	1.11	0.88-1.20	y	42.9	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	49.0	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	49.2	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	49.1	37.5 - 62.5
PCB-104	M+2/M+4	1.61	1.32-1.78	y	50.9	37.5 - 62.5
PCB-105	M+2/M+4	1.57	1.32-1.78	y	47.4	37.5 - 62.5
PCB-114	M+2/M+4	1.63	1.32-1.78	y	48.2	37.5 - 62.5
PCB-118	M+2/M+4	1.61	1.32-1.78	y	49.2	37.5 - 62.5
PCB-123	M+2/M+4	1.57	1.32-1.78	y	47.4	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	48.5	37.5 - 62.5
PCB-155	M+2/M+4	1.31	1.05-1.43	y	54.7	37.5 - 62.5
PCB-156	M+2/M+4	1.23	1.05-1.43	y	49.5	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	50.0	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	50.3	37.5 - 62.5
PCB-169	M+2/M+4	1.28	1.05-1.43	y	48.2	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	50.0	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	53.2	37.5 - 62.5
PCB-202	M+2/M+4	0.94	0.76-1.02	y	51.9	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	53.8	37.5 - 62.5
PCB-206	M+4/M+6	1.33	1.13-1.53	y	47.4	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	48.0	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	49.2	37.5 - 62.5

Analyst: [signature] Date: 7/24/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 24JUL18Z Sam:1 Analysis Date: 24-JUL-18 12:05:09

	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	3.11	2.66-3.60	y	102	50.0 - 145
13C-PCB-3	M/M+2	3.11	2.66-3.60	y	100	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	99.5	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	93.4	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	121	50.0 - 145
13C-PCB-37	M/M+2	1.08	0.88-1.20	y	98.3	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	102	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	89.8	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	89.0	50.0 - 145
13C-PCB-104	M+2/M+4	1.62	1.32-1.78	y	88.8	50.0 - 145
13C-PCB-105	M+2/M+4	1.62	1.32-1.78	y	89.8	50.0 - 145
13C-PCB-114	M+2/M+4	1.60	1.32-1.78	y	88.6	50.0 - 145
13C-PCB-118	M+2/M+4	1.65	1.32-1.78	y	94.0	50.0 - 145
13C-PCB-123	M+2/M+4	1.60	1.32-1.78	y	85.8	50.0 - 145
13C-PCB-126	M+2/M+4	1.63	1.32-1.78	y	87.1	50.0 - 145
13C-PCB-155	M+2/M+4	1.34	1.05-1.43	y	80.3	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	94.6	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	97.7	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	97.4	50.0 - 145
13C-PCB-169	M+2/M+4	1.28	1.05-1.43	y	98.9	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	92.0	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	90.7	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	77.7	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	101	50.0 - 145
13C-PCB-206	M+2/M+4	0.78	0.65-0.89	y	126	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	123	50.0 - 145
13C-PCB-209	M+4/M+6	1.22	0.99-1.33	y	128	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.08	0.88-1.20	y	96.1	65.0 - 135
13C-PCB-111	M+2/M+4	1.58	1.32-1.78	y	96.0	75.0 - 125
13C-PCB-178	M+2/M+4	1.10	0.89-1.21	y	92.6	75.0 - 125

Analyst: _____ Date: 7/24/18

FAL ID: ST072418Z1 Filename: 24JUL18Z Sam:1 Acquired: 24-JUL-18 12:05:09 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 R170805A ConCal: NA EndCal: NA
Results: 23JUL18Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	5.60e+07	3.14 y	14:35	1.11	46.3		2.50	-	-	*	-
13C-PCB-1	1.09e+08	3.11 y	14:34	1.07	102		2.50				102
PCB-3	5.56e+07	3.14 y	17:02	1.13	47.5		2.50	-	-	*	-
13C-PCB-3	1.04e+08	3.11 y	17:01	1.03	100		2.50				100
PCB-4	3.65e+07	1.54 y	18:16	1.14	47.4		2.50	-	-	*	-
13C-PCB-4	6.73e+07	1.60 y	18:15	0.67	99.5		2.50				99.5
PCB-15	5.20e+07	1.56 y	23:50	1.10	48.6		2.50	-	-	*	-
13C-PCB-15	9.68e+07	1.60 y	23:49	1.03	93.4		2.50				93.4
PCB-19	3.30e+07	1.05 y	22:10	1.23	46.8		2.50	-	-	*	-
13C-PCB-19	5.73e+07	1.09 y	22:09	0.47	121		2.50				121
13C-PCB-9	1.00e+08	1.60 y	19:57	-	428		2.50				
PCB-37	4.43e+07	1.11 y	30:30	1.26	42.9		2.50	-	-	*	-
13C-PCB-37	8.23e+07	1.08 y	30:29	1.40	98.3		2.50				98.3
PCB-54	4.09e+07	0.78 y	25:43	1.16	49.0		2.50	-	-	*	-
13C-PCB-54	7.21e+07	0.81 y	25:42	1.19	102		2.50				102
PCB-104	2.65e+07	1.61 y	30:10	1.22	50.9		2.50	-	-	*	-
13C-PCB-104	4.25e+07	1.62 y	30:08	0.80	88.8		2.50				88.8
13C-PCB-28	8.79e+07	1.08 y	26:47	1.53	96.1		2.50				96.1
13C-PCB-52	5.99e+07	0.79 y	29:03	-	462		2.50				
PCB-81	3.64e+07	0.81 y	36:17	1.17	49.1		2.50	-	-	*	-
13C-PCB-81	6.33e+07	0.79 y	36:15	1.37	89.0		2.50				89.0
PCB-77	3.58e+07	0.80 y	36:50	1.11	49.2		2.50	-	-	*	-
13C-PCB-77	6.56e+07	0.79 y	36:49	1.41	89.8		2.50				89.8
PCB-155	2.66e+07	1.31 y	34:20	1.14	54.7		2.50	-	-	*	-
13C-PCB-155	4.25e+07	1.34 y	34:18	1.02	80.3		2.50				80.3
13C-PCB-111	6.30e+07	1.58 y	36:25	1.26	96.0		2.50				96.0
13C-PCB-101	5.19e+07	1.60 y	34:45	-	460		2.50				
PCB-123	3.06e+07	1.57 y	38:28	1.12	47.4		2.50	-	-	*	-
13C-PCB-123	5.76e+07	1.60 y	38:26	1.36	85.8		2.50				85.8
PCB-118	3.77e+07	1.61 y	38:39	1.16	49.2		2.50	-	-	*	-
13C-PCB-118	6.62e+07	1.65 y	38:38	1.42	94.0		2.50				94.0
PCB-114	3.28e+07	1.63 y	39:16	1.13	48.2		2.50	-	-	*	-
13C-PCB-114	6.05e+07	1.60 y	39:14	1.38	88.6		2.50				88.6
PCB-105	3.22e+07	1.57 y	40:05	1.11	47.4		2.50	-	-	*	-
13C-PCB-105	6.12e+07	1.62 y	40:03	1.38	89.8		2.50				89.8
PCB-126	2.99e+07	1.58 y	42:13	1.11	48.5		2.50	-	-	*	-
13C-PCB-126	5.54e+07	1.63 y	42:12	1.29	87.1		2.50				87.1
PCB-167	3.14e+07	1.25 y	43:34	1.05	50.3		2.50	-	-	*	-
13C-PCB-167	5.94e+07	1.27 y	43:32	1.23	97.4		2.50				97.4
PCB-156	2.97e+07	1.23 y	44:48	1.08	49.5		2.50	-	-	*	-
13C-PCB-156	5.57e+07	1.28 y	44:46	1.19	94.6		2.50				94.6
PCB-157	3.16e+07	1.26 y	45:03	1.06	50.0		2.50	-	-	*	-
13C-PCB-157	5.98e+07	1.29 y	45:01	1.24	97.7		2.50				97.7
PCB-169	2.87e+07	1.28 y	46:55	1.06	48.2		2.50	-	-	*	-
13C-PCB-169	5.62e+07	1.28 y	46:53	1.15	98.9		2.50				98.9
PCB-188	2.93e+07	1.06 y	39:50	1.14	50.0		2.50	-	-	*	-
13C-PCB-188	5.13e+07	1.09 y	39:48	1.13	92.0		2.50				92.0
PCB-189	2.52e+07	1.06 y	48:34	1.12	53.2		2.50	-	-	*	-
13C-PCB-189	4.24e+07	1.07 y	48:32	0.94	90.7		2.50				90.7
PCB-202	1.68e+07	0.94 y	44:56	1.09	51.9		2.50	-	-	*	-
13C-PCB-202	2.97e+07	0.92 y	44:55	0.77	77.7		2.50				77.7
13C-PCB-178	3.49e+07	1.10 y	42:26	0.76	92.6		2.50				92.6
13C-PCB-138	4.95e+07	1.28 y	41:40	-	452		2.50				

FAL ID: ST072418Z1 Filename: 24JUL18Z Sam:1 Acquired: 24-JUL-18 12:05:09 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 R170805A ConCal: NA EndCal: NA
Results: 23JUL18Z GC Column: DB1MS Amount: 1.000

PCB-205	2.86e+07	0.91	y	50:11	1.04	53.8	2.50	-	-	*	-
13C-PCB-205	5.10e+07	0.91	y	50:10	1.32	101	2.50				101
PCB-208	2.89e+07	1.35	y	49:14	0.96	48.0	2.50	-	-	*	-
13C-PCB-208	6.24e+07	0.80	y	49:13	1.33	123	2.50				123
PCB-206	2.09e+07	1.33	y	51:23	0.97	47.4	2.50	-	-	*	-
13C-PCB-206	4.52e+07	0.78	y	51:21	0.94	126	2.50				126
PCB-209	2.95e+07	1.18	y	52:33	1.17	49.2	2.50	-	-	*	-
13C-PCB-209	5.11e+07	1.22	y	52:32	1.04	128	2.50				128
13C-PCB-194	3.82e+07	0.91	y	49:55	-	385	2.50				

Analyst: [illegible] Date: 7/24/18

Frontier Analytical Laboratory - Acquisition Log

Run Name:24JUL18Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

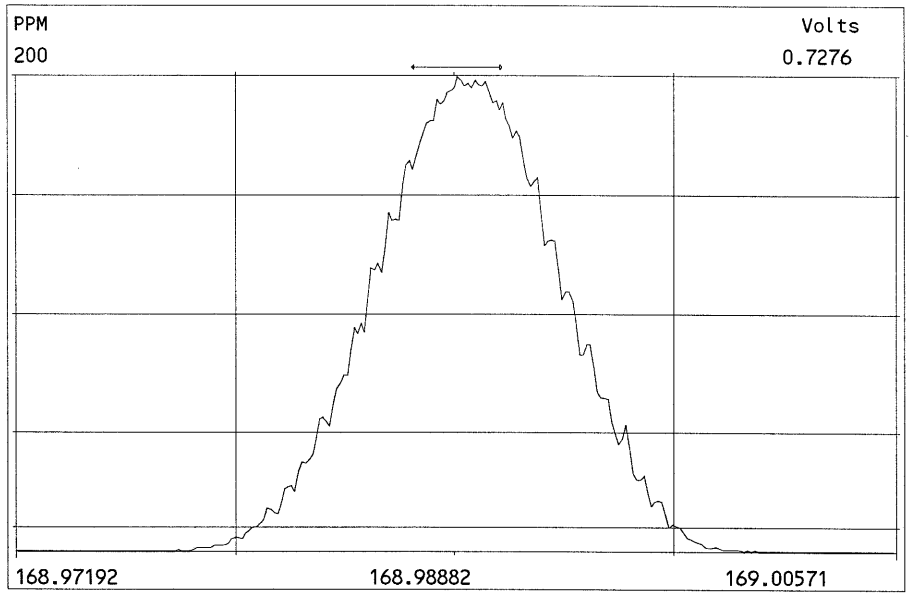
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
24JUL18Z	1	ST072418Z1	1668 CS3 170805A	24-JUL-18 12:05:09	ST072418Z1	ST072418Z2	BS
24JUL18Z	2	SS072418Z1	Daily 209 171222A	24-JUL-18 13:03:29	ST072418Z1	ST072418Z2	BS
24JUL18Z	3	SB072418Z1	Solvent Blank	24-JUL-18 14:02:15	ST072418Z1	ST072418Z2	BS
24JUL18Z	4	11704-007-0001-SA	LDW-Y1-SU-S010-LCB	24-JUL-18 15:01:01	ST072418Z1	ST072418Z2	BS
24JUL18Z	5	11710-010-0001-SA	Tampax Pure & clean regular	24-JUL-18 15:59:47	ST072418Z1	ST072418Z2	BS
24JUL18Z	6	11722-002-0001-SA	Tampax Pure & clean regular	24-JUL-18 16:58:11	ST072418Z1	ST072418Z2	BS
24JUL18Z	7	11614-021-0001-SA	Charmin Essential Soft - KMa	24-JUL-18 17:56:59	ST072418Z1	ST072418Z2	BS
24JUL18Z	8	11614-026-0001-SA	Charmin Ultra Gentle - Targe	24-JUL-18 18:55:44	ST072418Z1	ST072418Z2	BS
24JUL18Z	9	11710-003-0001-SA	Tampax Radiant SuperPlus-812	24-JUL-18 19:54:31	ST072418Z1	ST072418Z2	BS
24JUL18Z	10	SB072418Z2	Solvent Blank	24-JUL-18 20:53:18	ST072418Z1	ST072418Z2	BS
24JUL18Z	11	SB072418Z3	Solvent Blank	24-JUL-18 21:51:43	ST072418Z1	ST072418Z2	BS
24JUL18Z	12	ST072418Z2	1668 CS3 170805A	24-JUL-18 22:50:29	ST072418Z1	ST072418Z2	BS

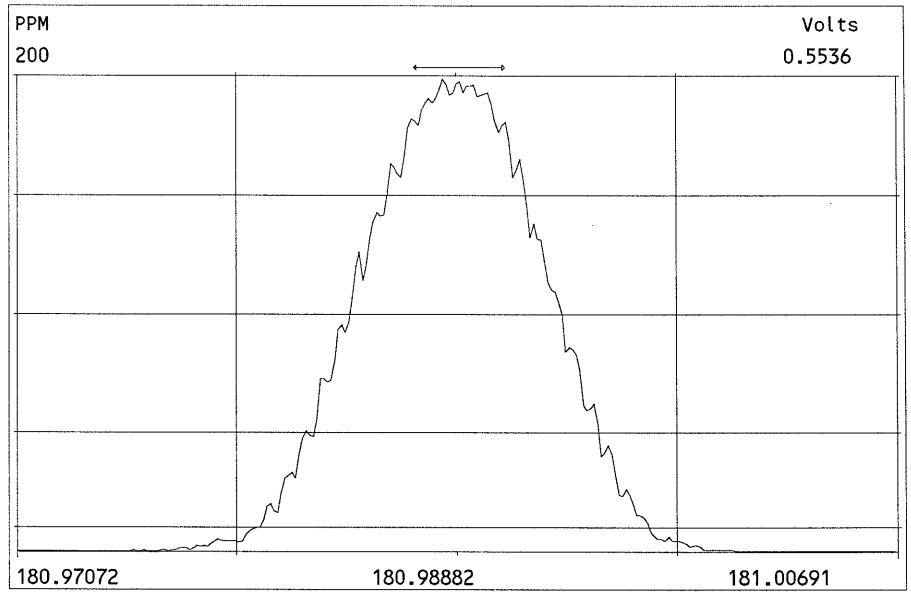
7/25/18

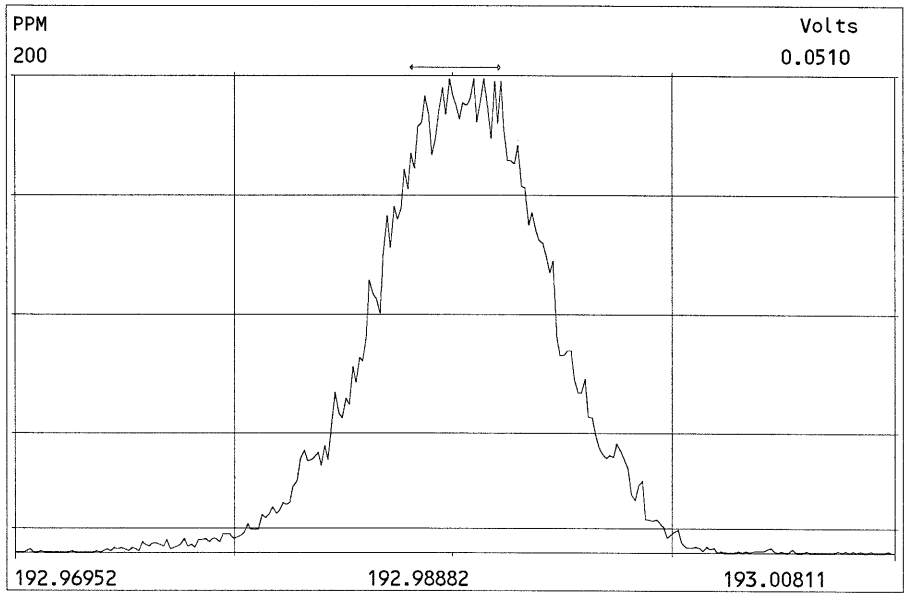
Data Backed Up:_____

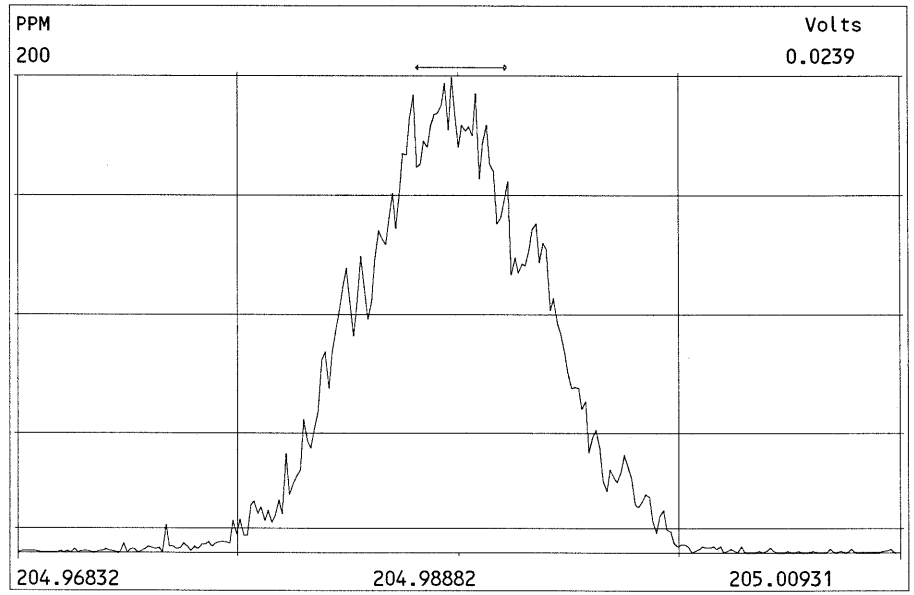
Date:_____

Peak Locate Examination:24-JUL-2018:12:02 File:24JUL18Z
Experiment:1668PCB Function:1 Reference:PFK

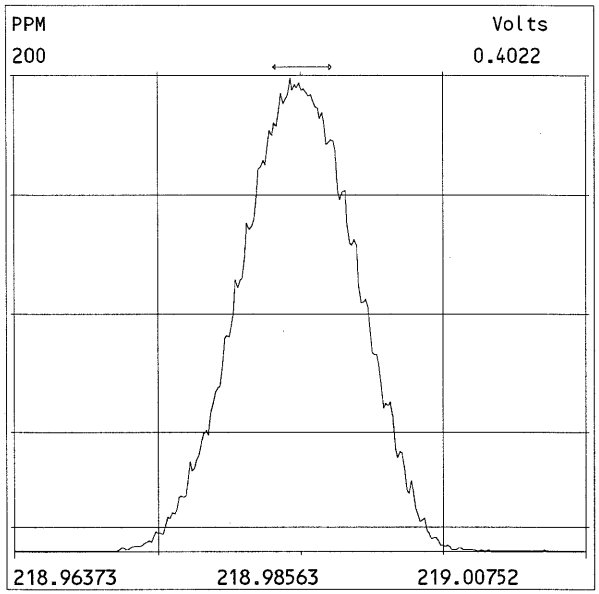


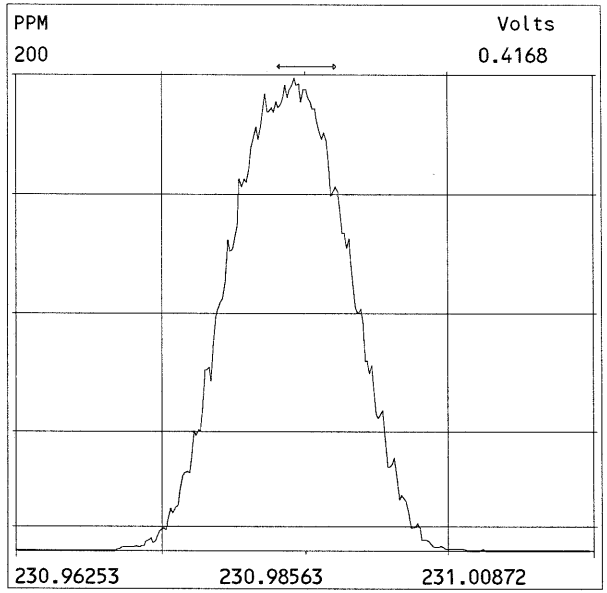


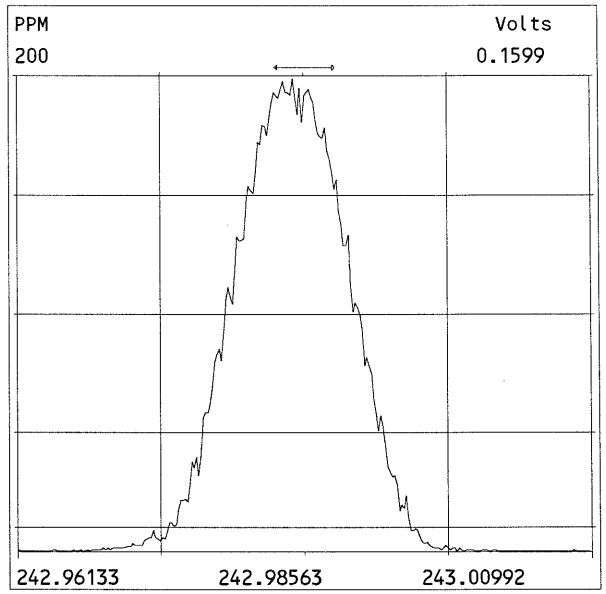


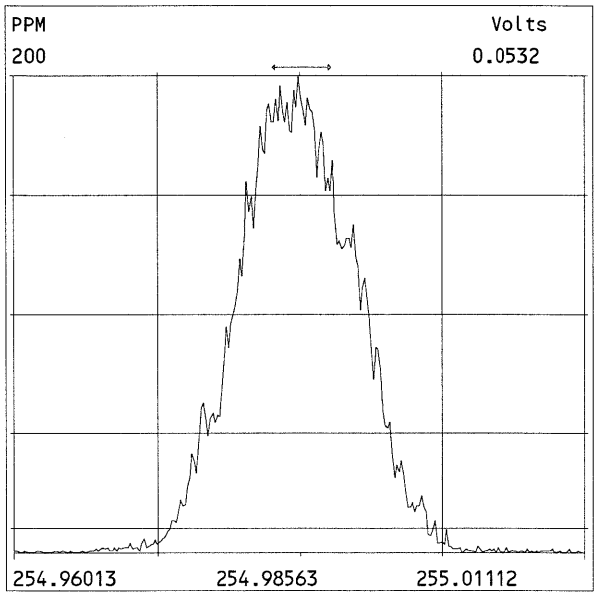


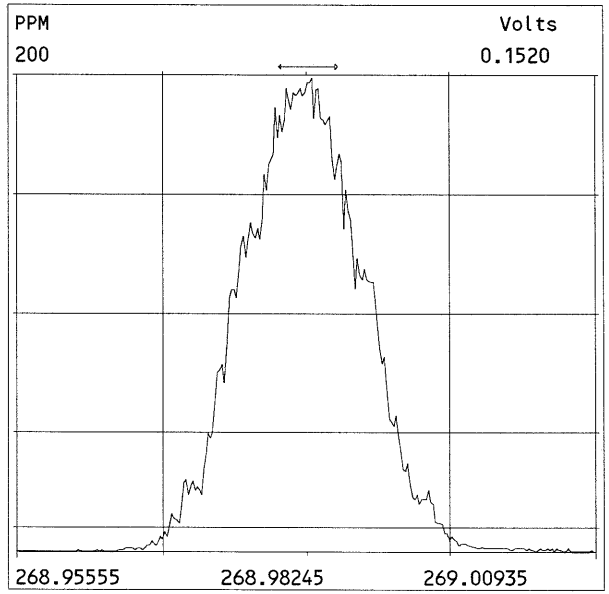
Peak Locate Examination:24-JUL-2018:12:02 File:24JUL18Z
Experiment:1668PCB Function:2 Reference:PFK

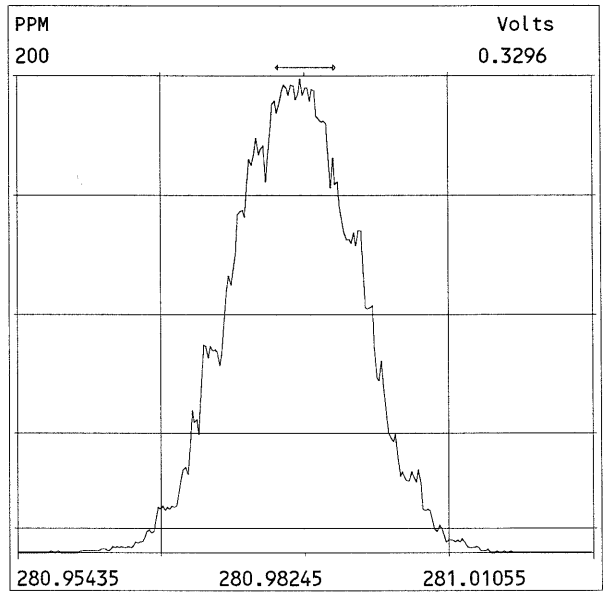




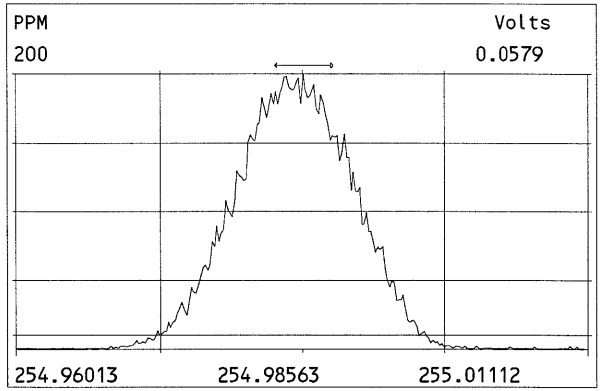


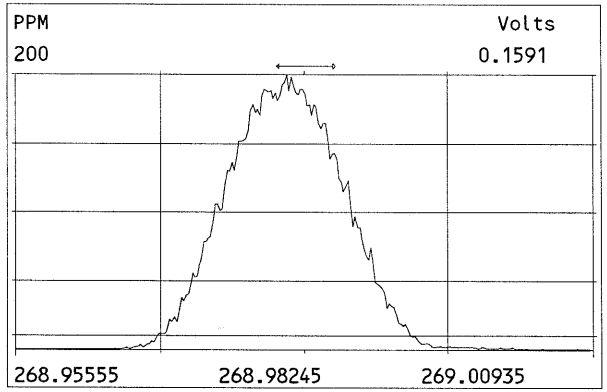


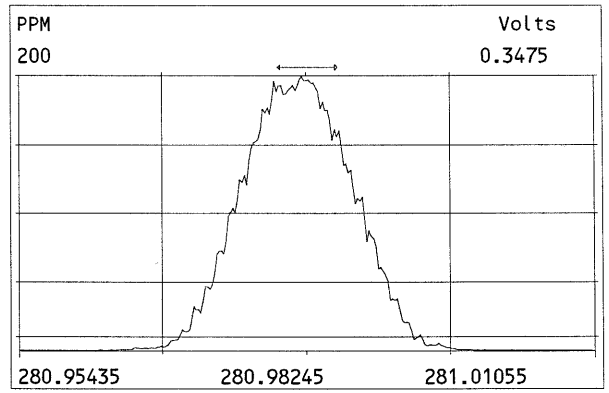


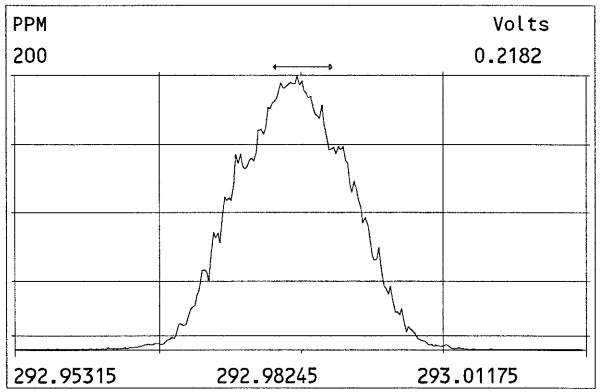


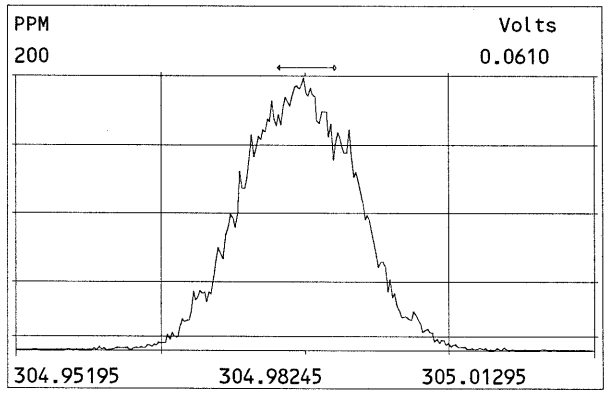
Peak Locate Examination:24-JUL-2018:12:02 File:24JUL18Z
Experiment:1668PCB Function:3 Reference:PFK

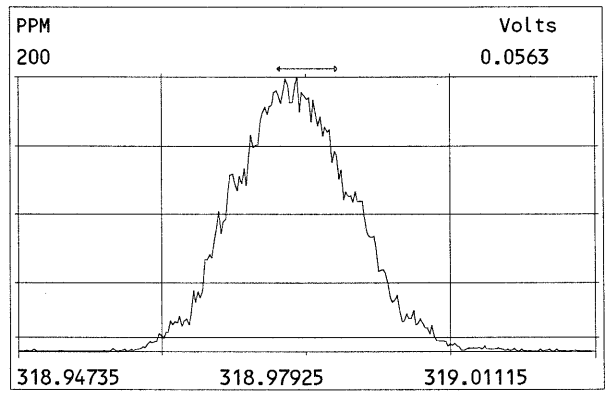


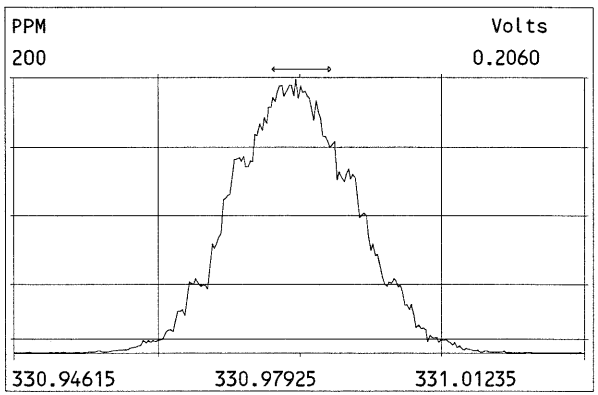


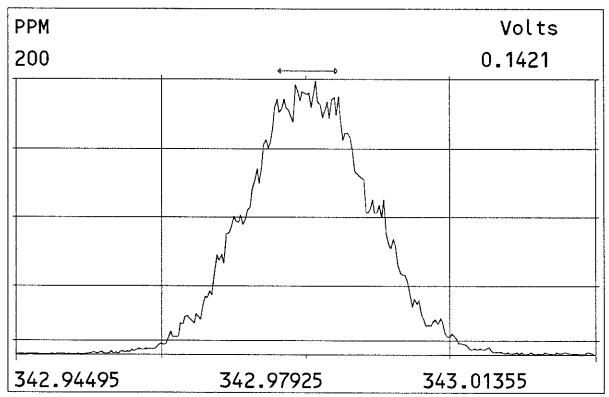




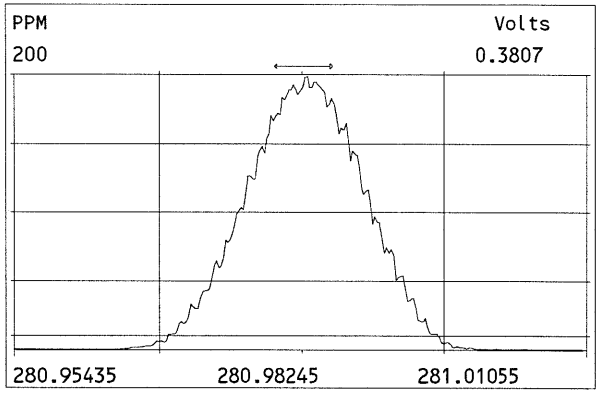


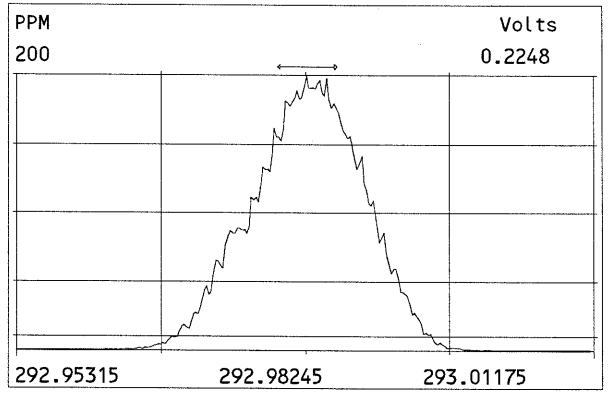


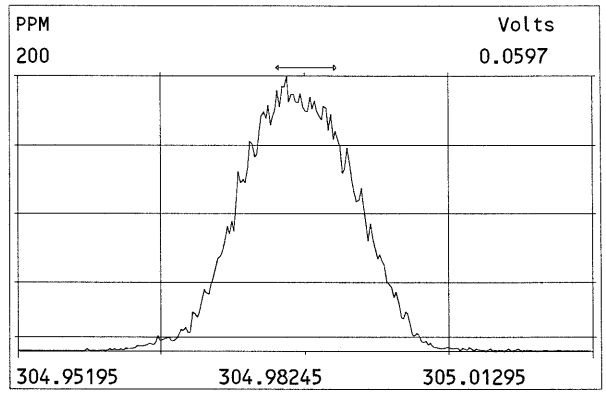


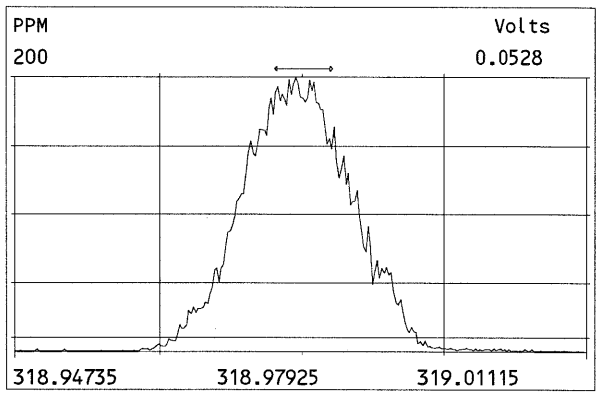


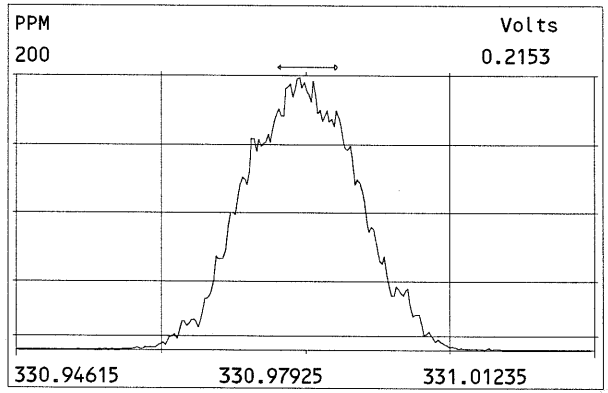
Peak Locate Examination:24-JUL-2018:12:03 File:24JUL18Z
Experiment:1668PCB Function:4 Reference:PFK

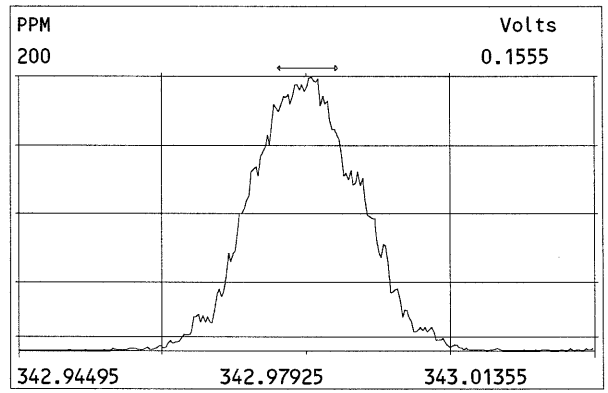


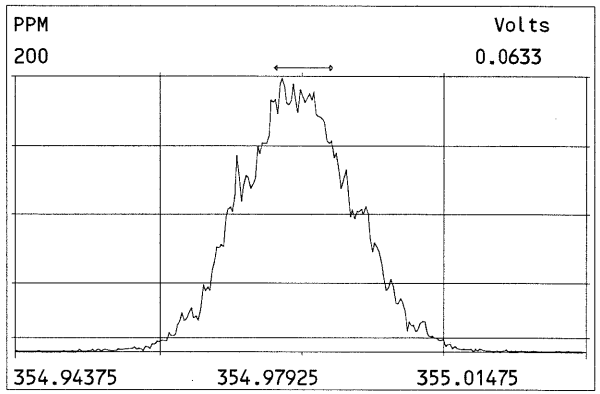


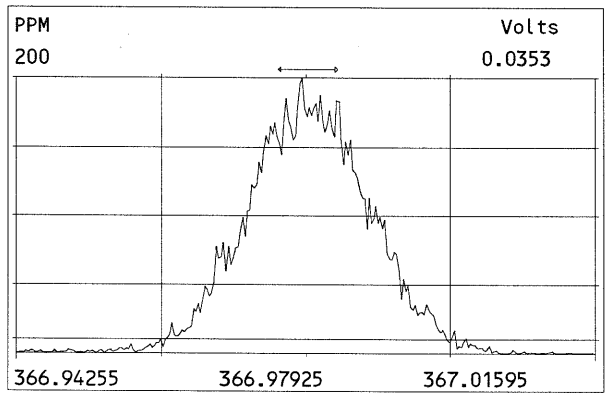


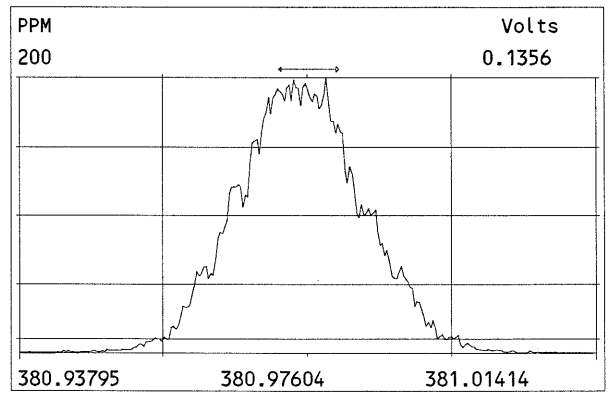




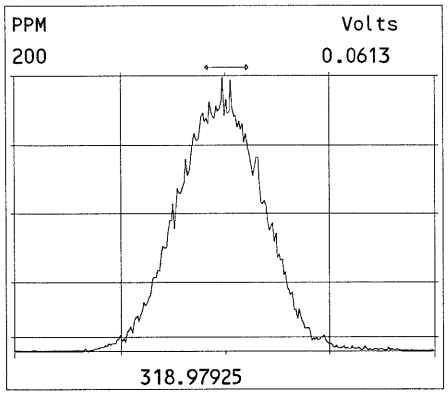


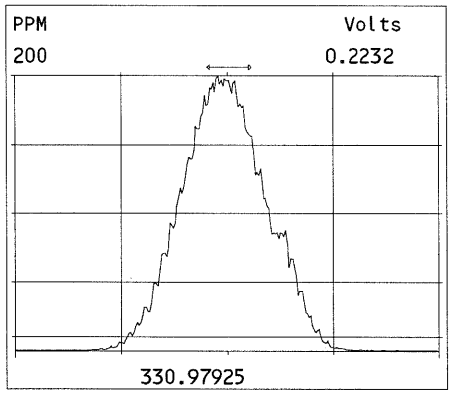


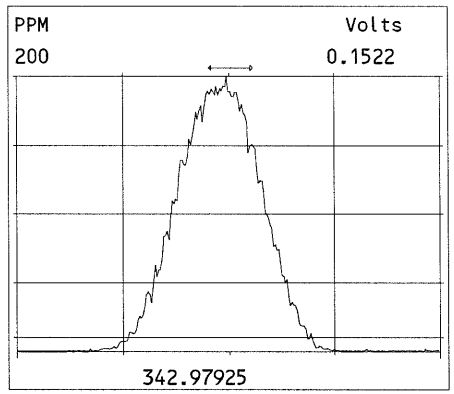


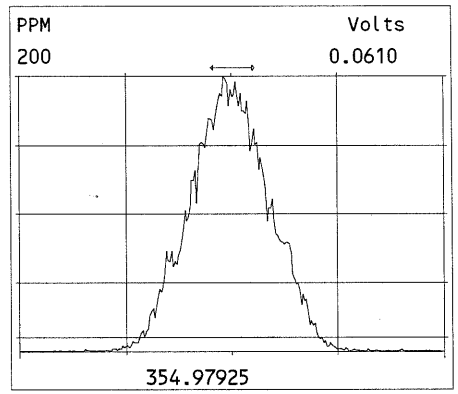


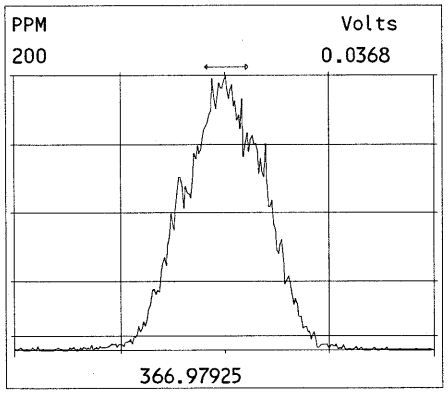
Peak Locate Examination:24-JUL-2018:12:04 File:24JUL18Z
Experiment:1668PCB Function:5 Reference:PFK

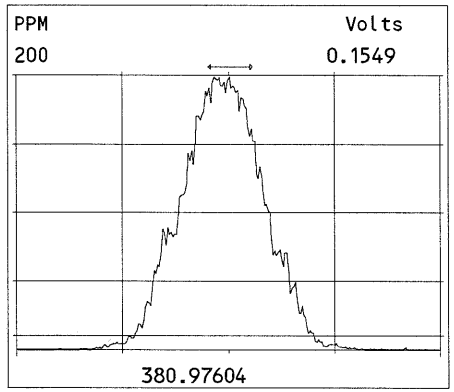


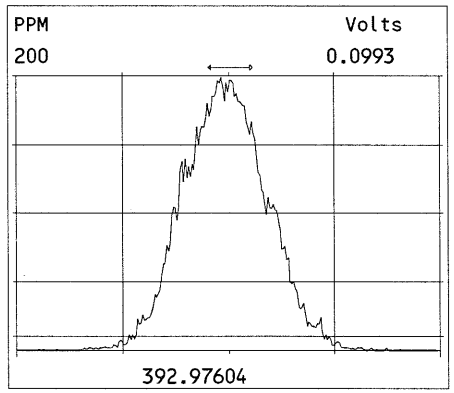


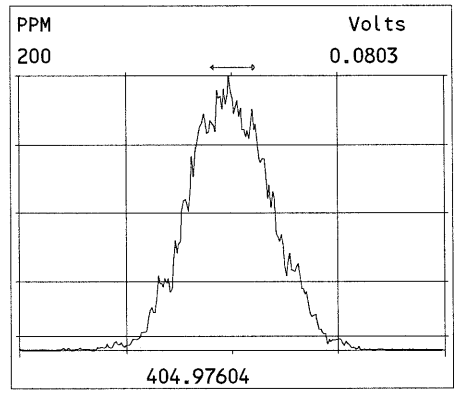


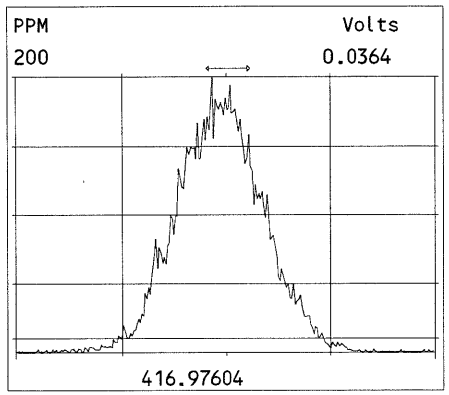


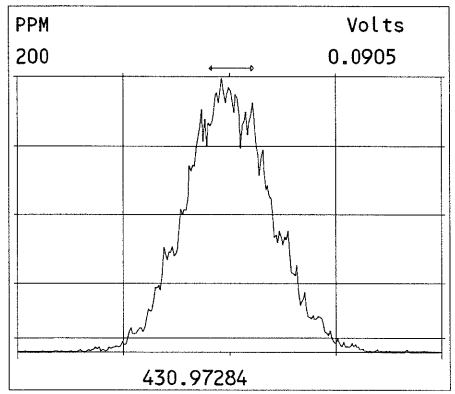


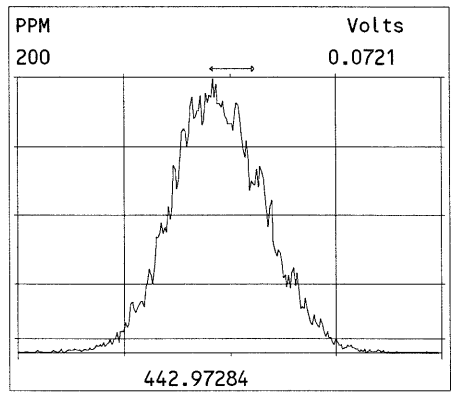




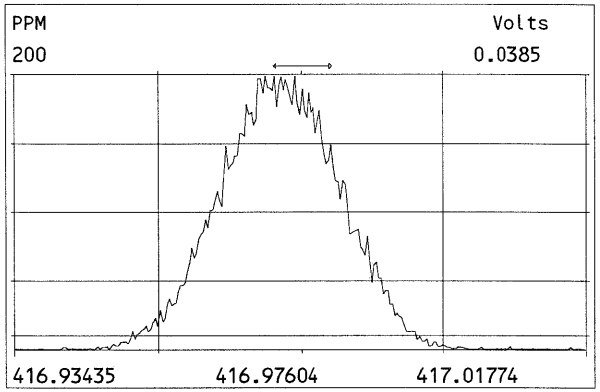


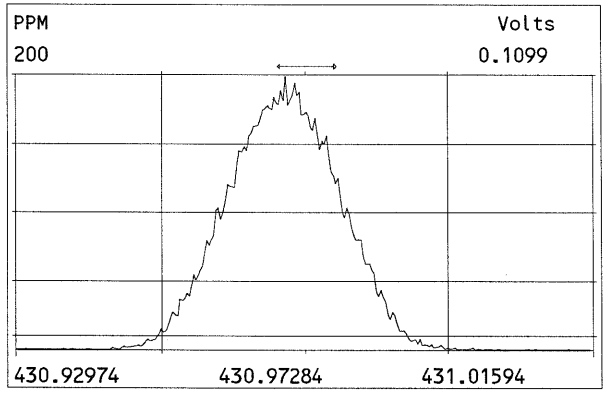


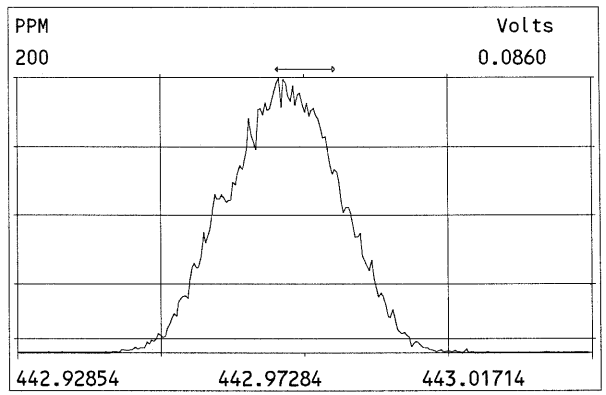


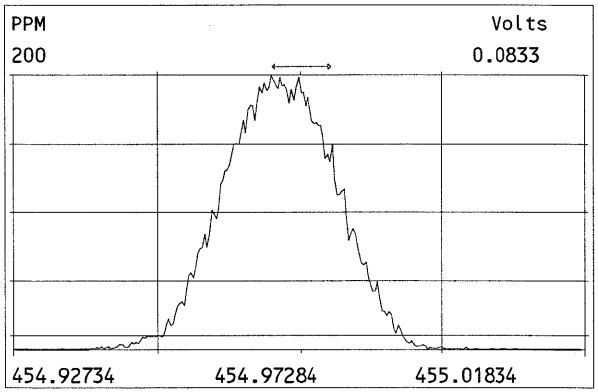


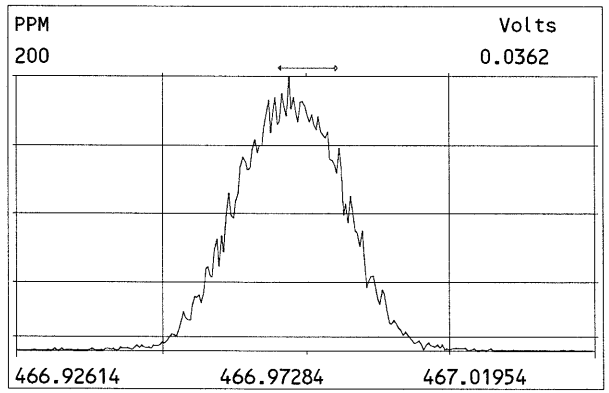
Peak Locate Examination:24-JUL-2018:12:04 File:24JUL18Z
Experiment:1668PCB Function:6 Reference:PFK

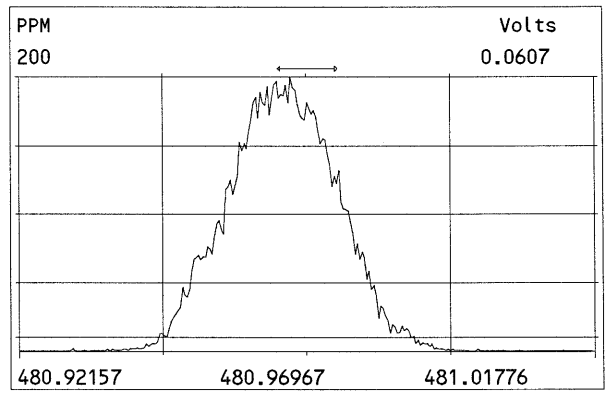


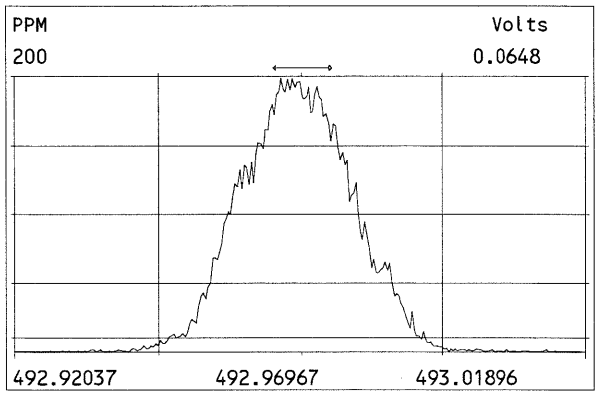


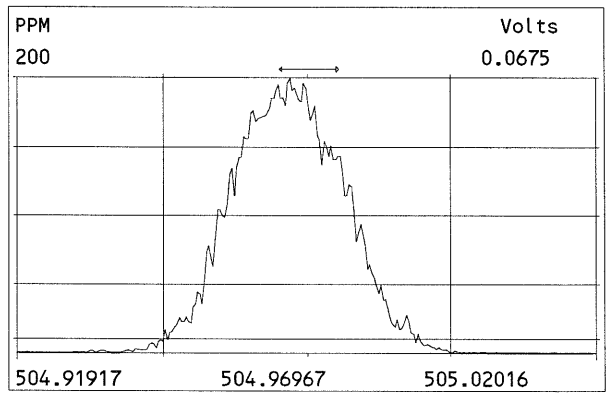


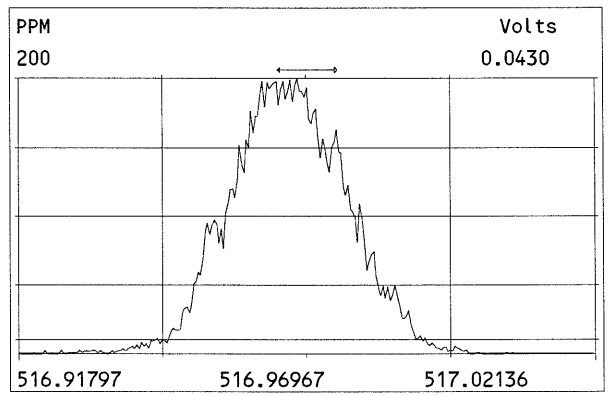




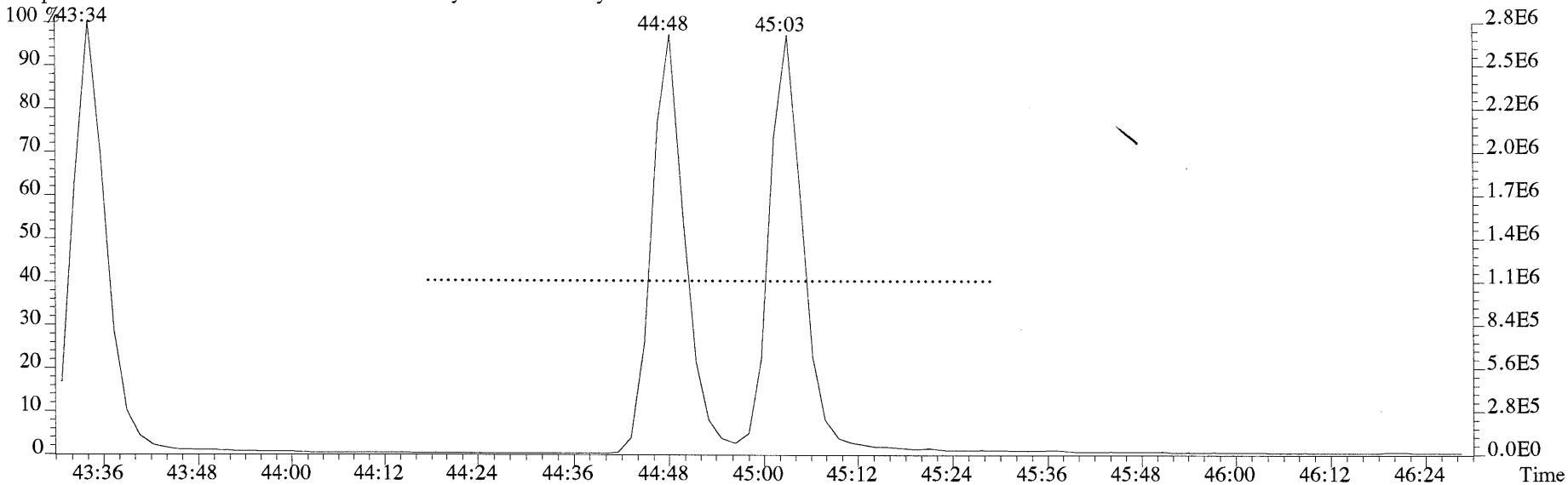




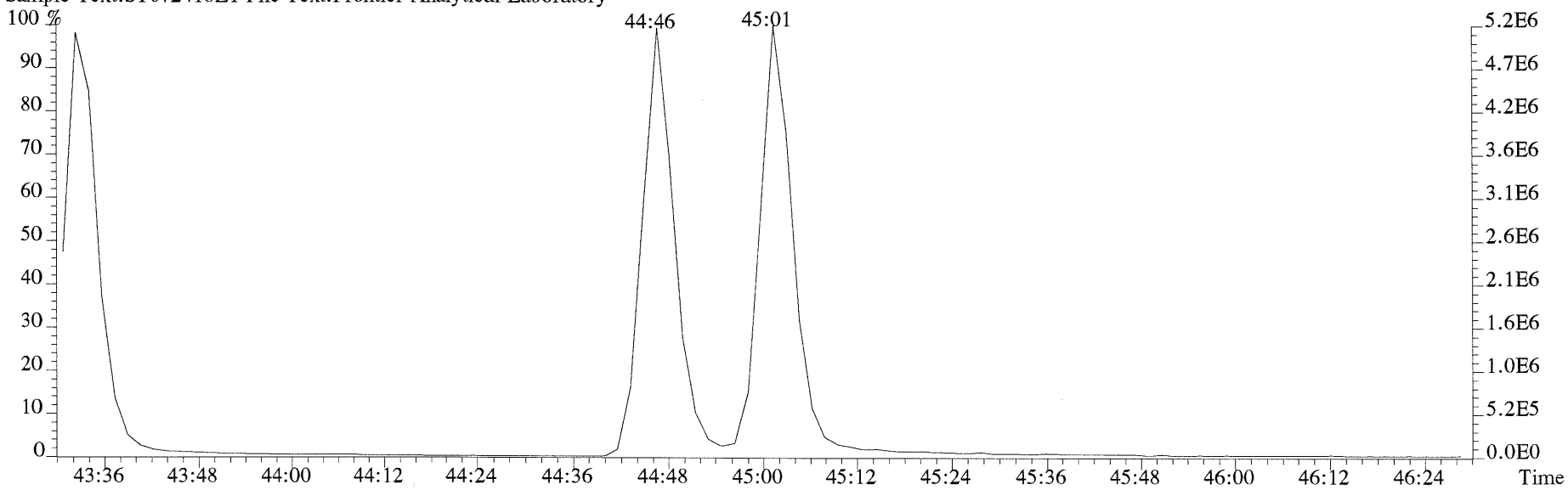




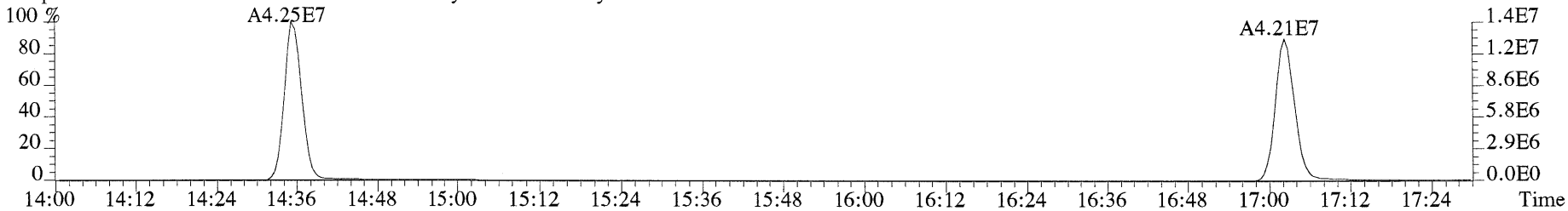
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



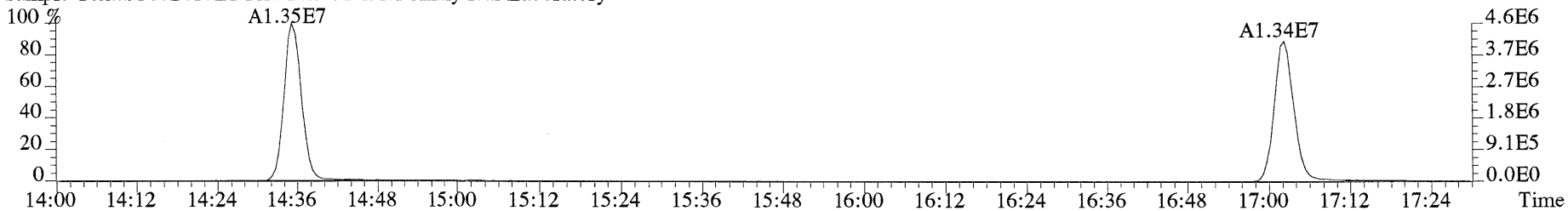
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



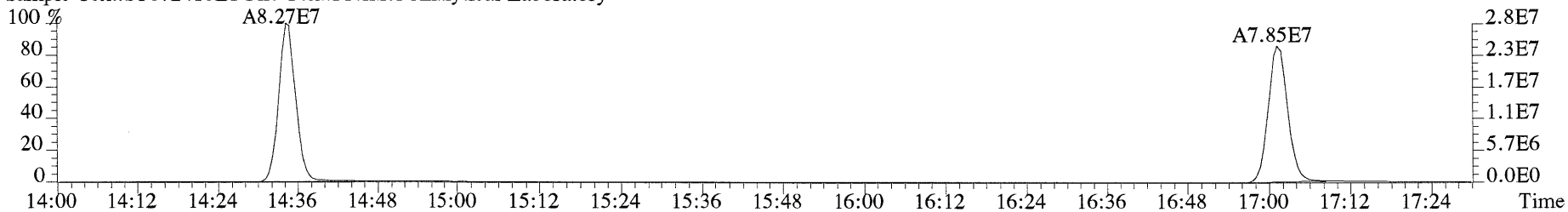
File:24JUL18Z #1-784 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



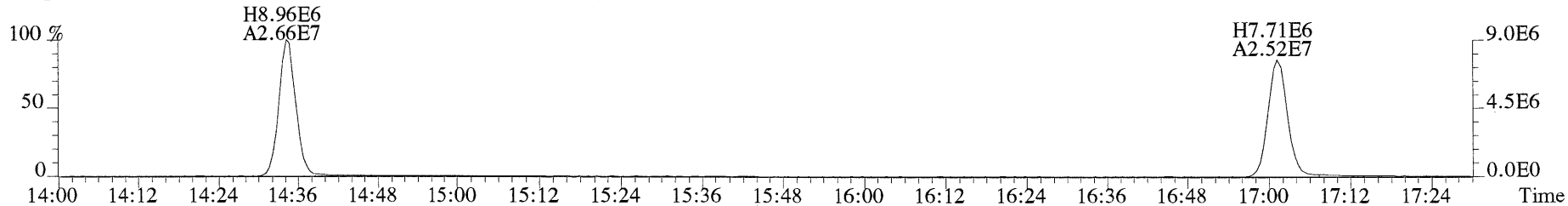
File:24JUL18Z #1-784 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



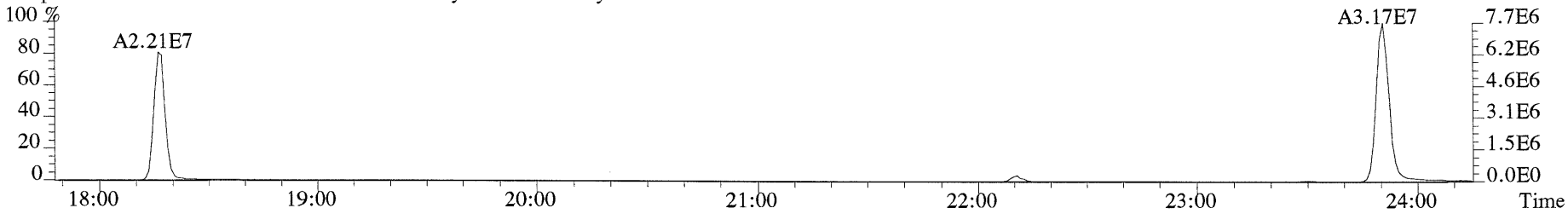
File:24JUL18Z #1-784 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



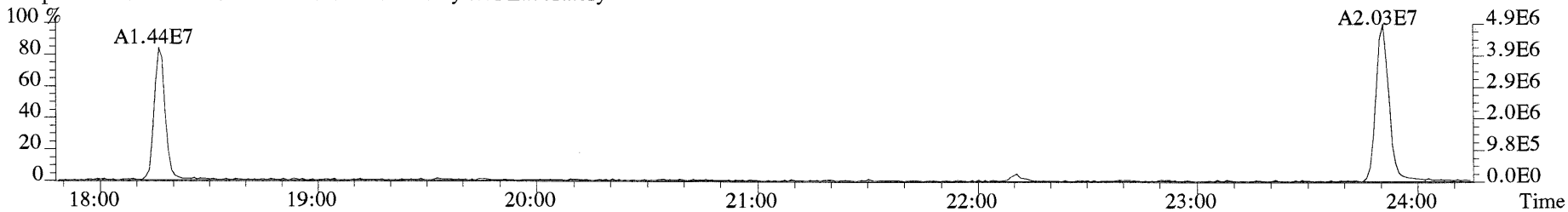
File:24JUL18Z #1-784 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



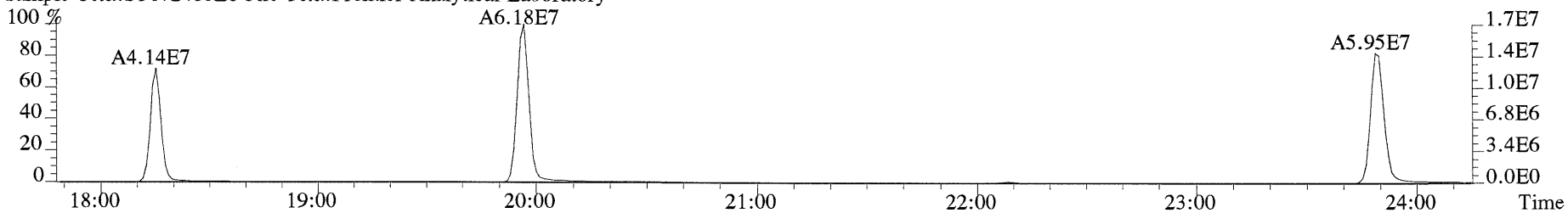
File:24JUL18Z #1-520 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



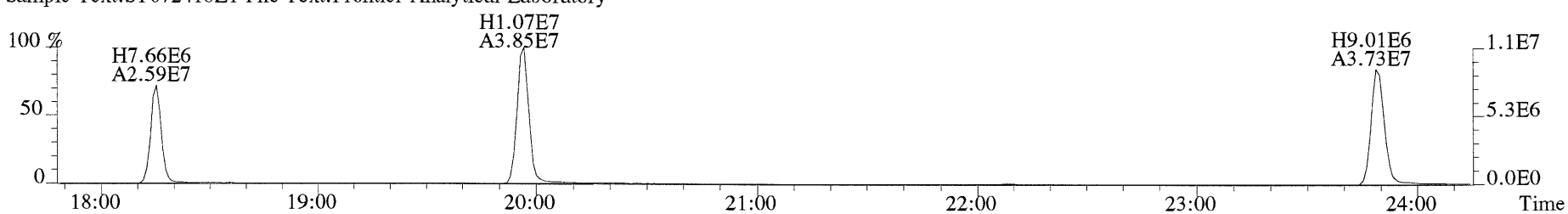
File:24JUL18Z #1-520 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



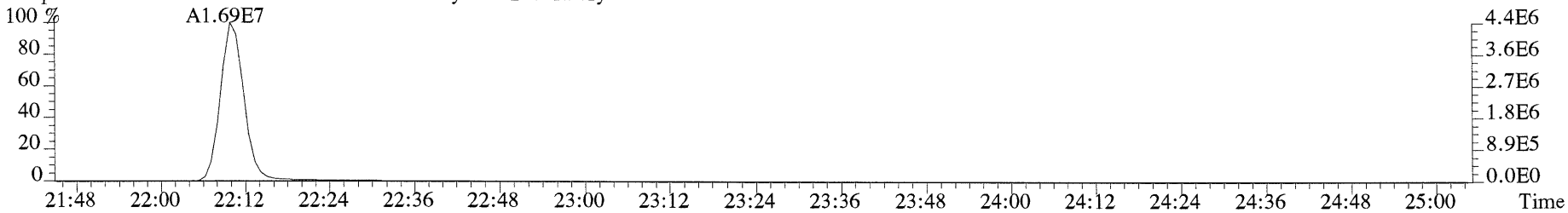
File:24JUL18Z #1-520 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



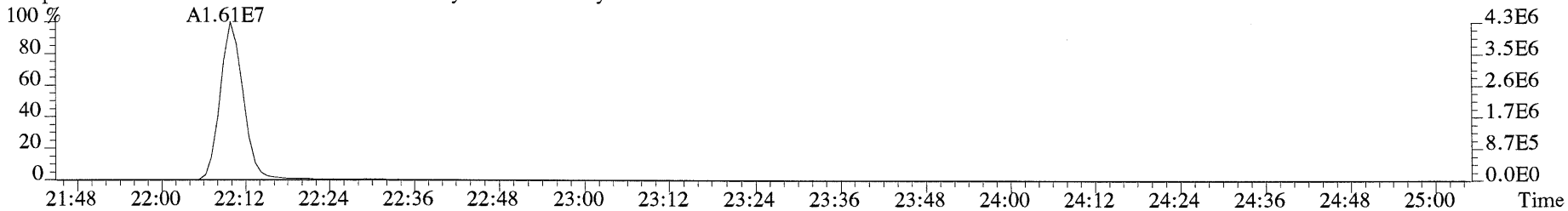
File:24JUL18Z #1-520 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



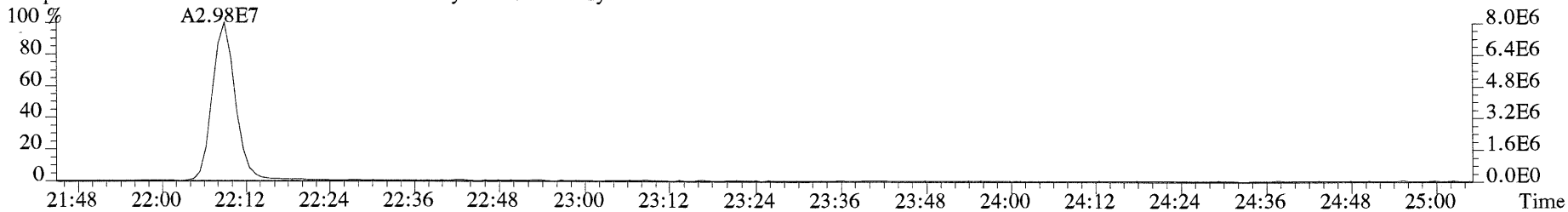
File:24JUL18Z #1-520 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



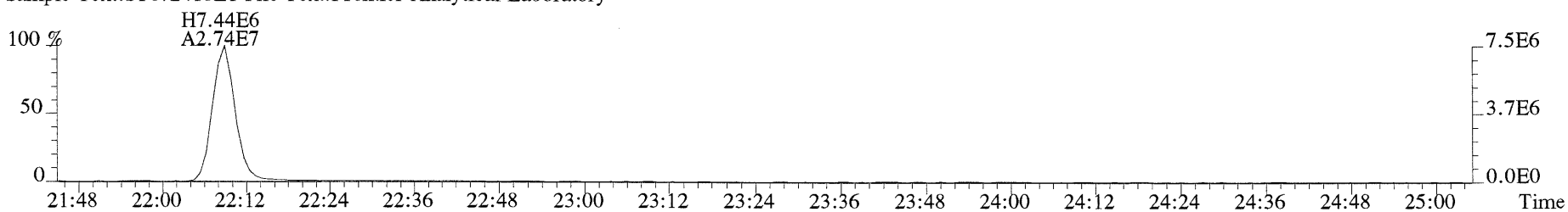
File:24JUL18Z #1-520 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



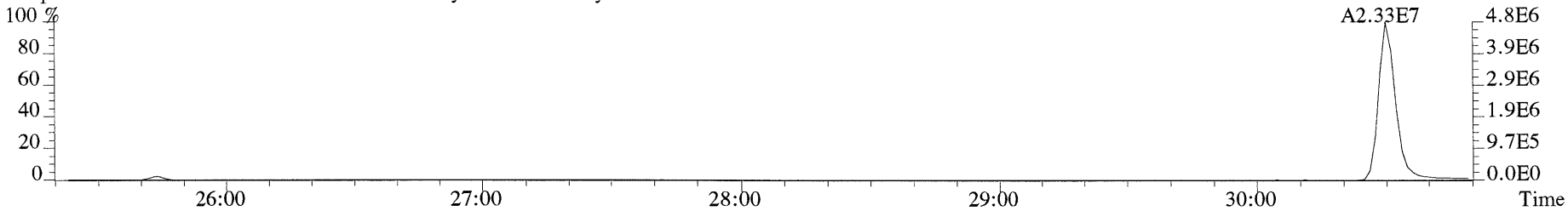
File:24JUL18Z #1-520 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



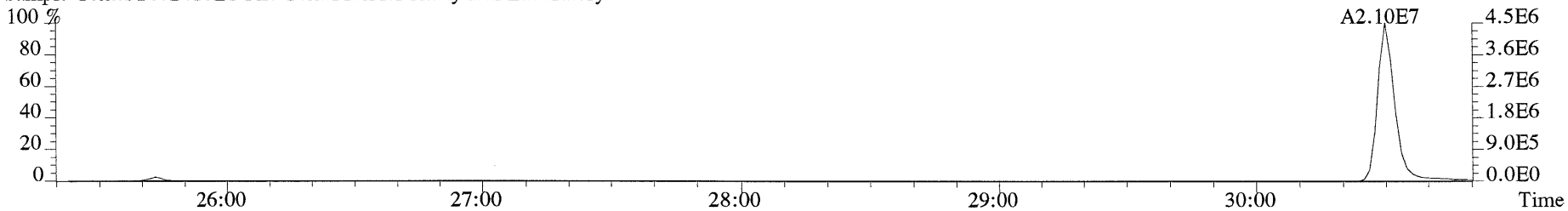
File:24JUL18Z #1-520 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



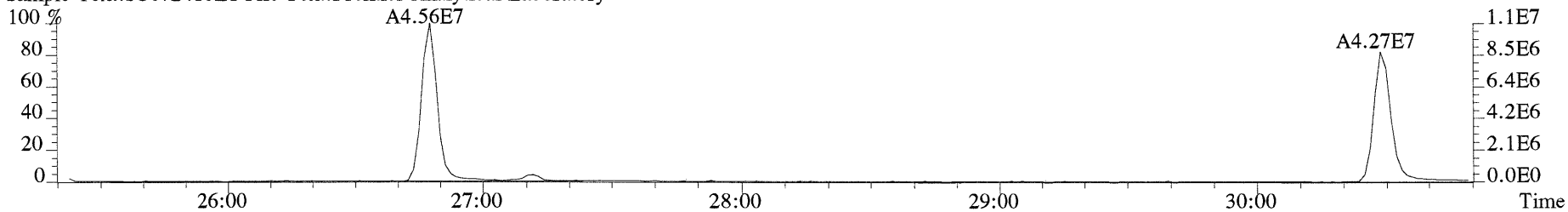
File:24JUL18Z #1-401 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



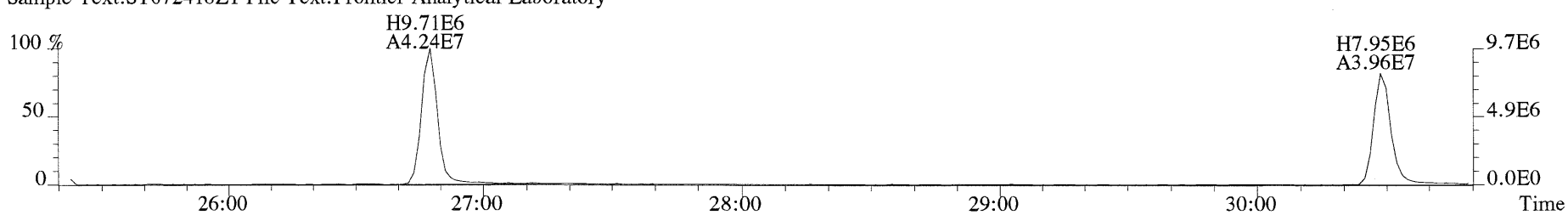
File:24JUL18Z #1-401 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



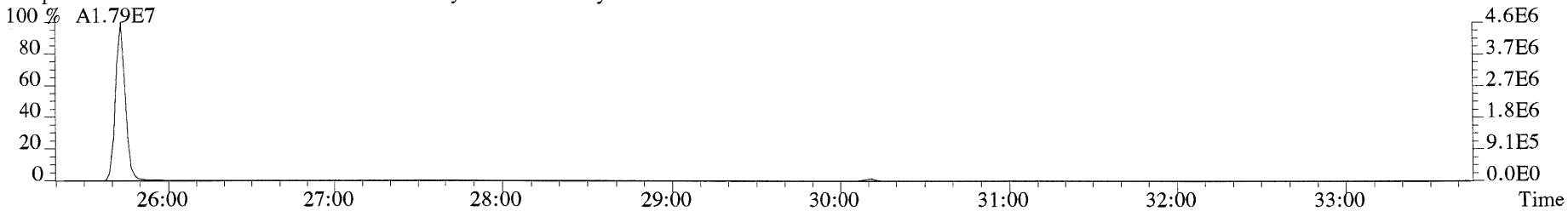
File:24JUL18Z #1-401 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



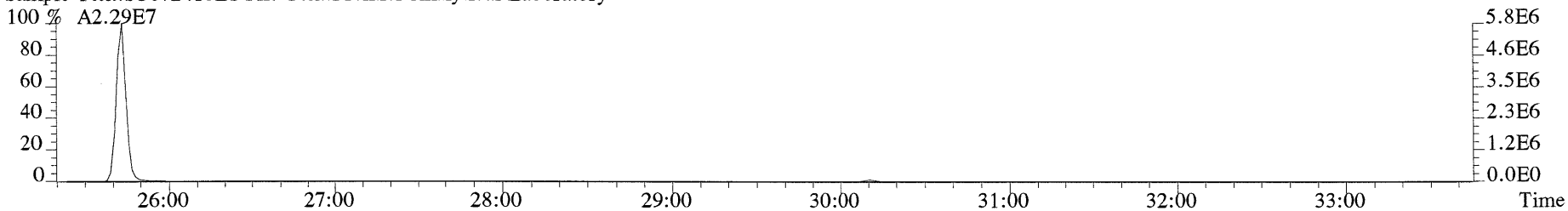
File:24JUL18Z #1-401 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



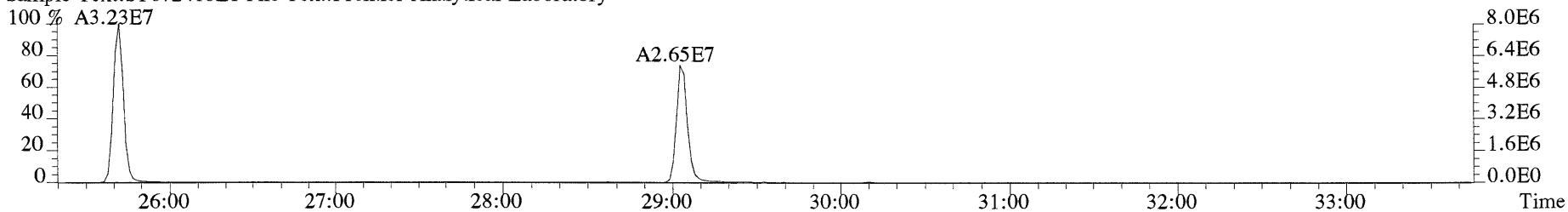
File:24JUL18Z #1-401 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



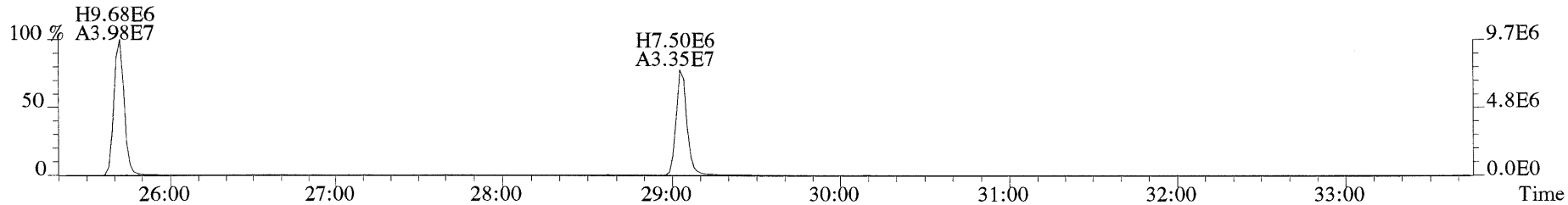
File:24JUL18Z #1-401 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



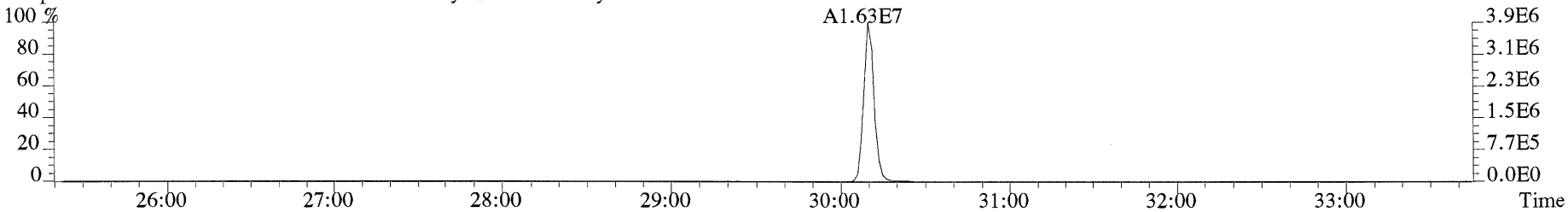
File:24JUL18Z #1-401 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



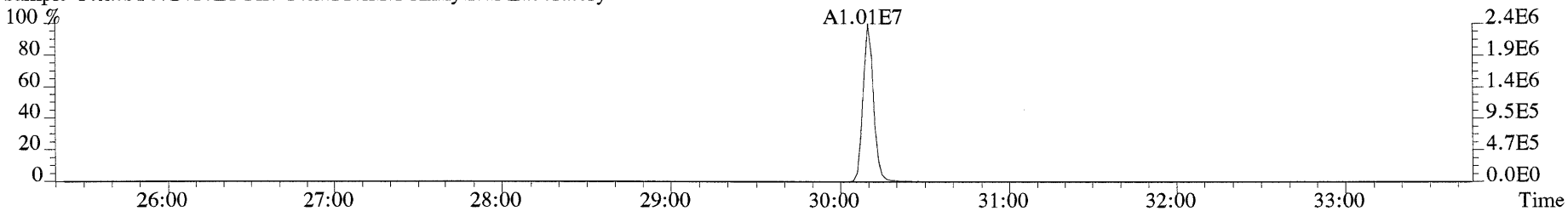
File:24JUL18Z #1-401 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



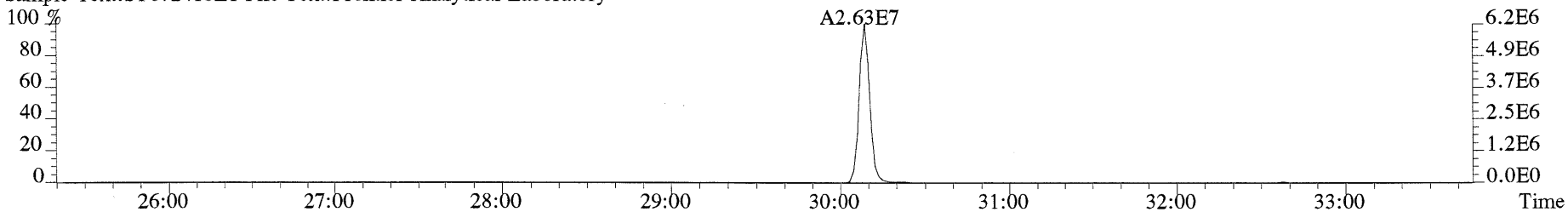
File:24JUL18Z #1-401 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-401 Acq:24-JUL-2018 12:05:09 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:ST072418Z1 File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-401 Acq:24-JUL-2018 12:05:09 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:ST072418Z1 File Text:Frontier Analytical Laboratory



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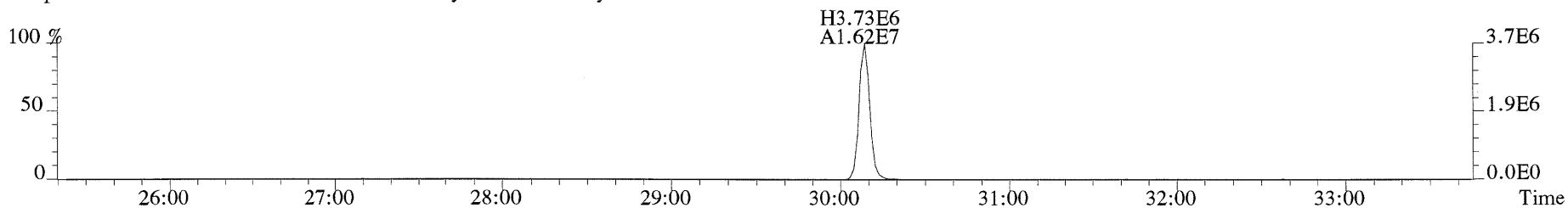
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



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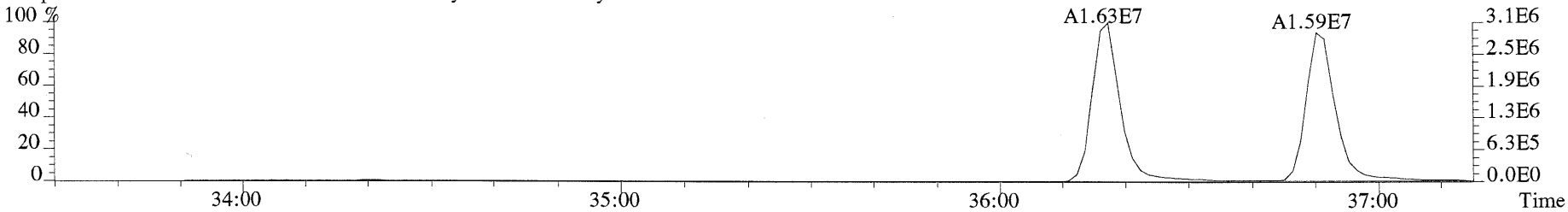
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



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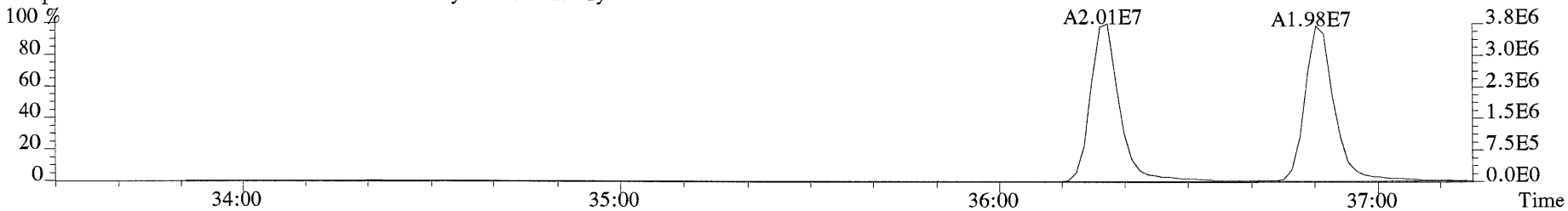
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



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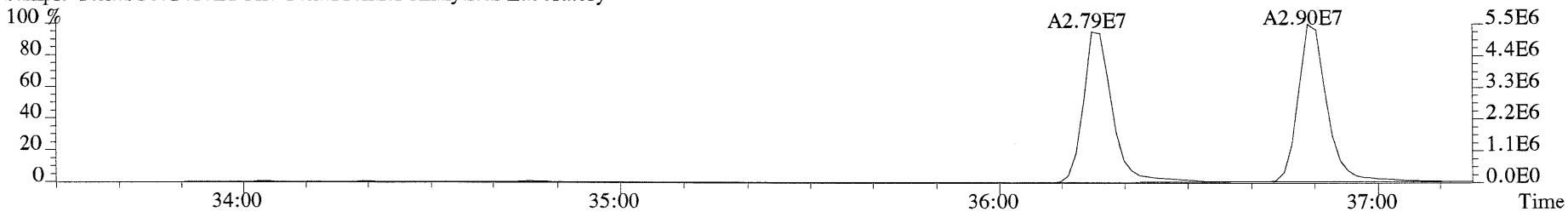
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



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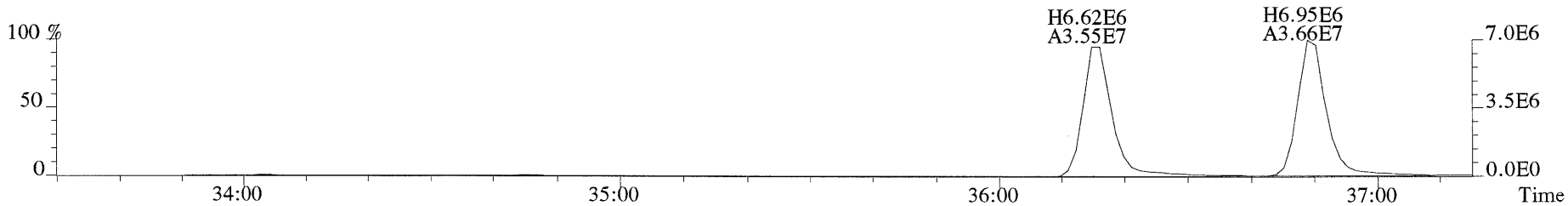
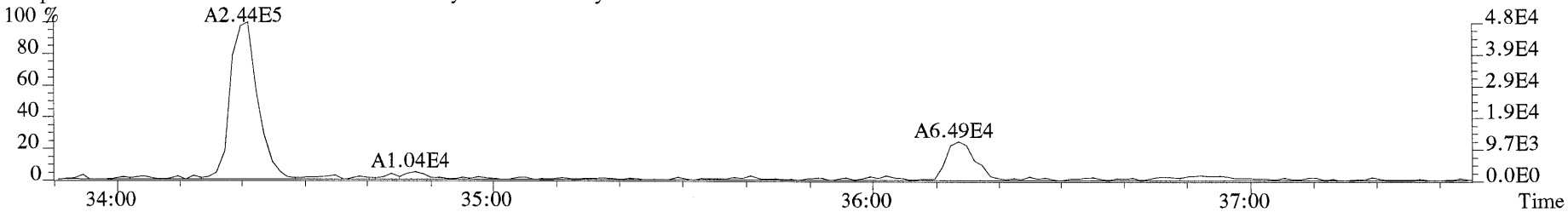
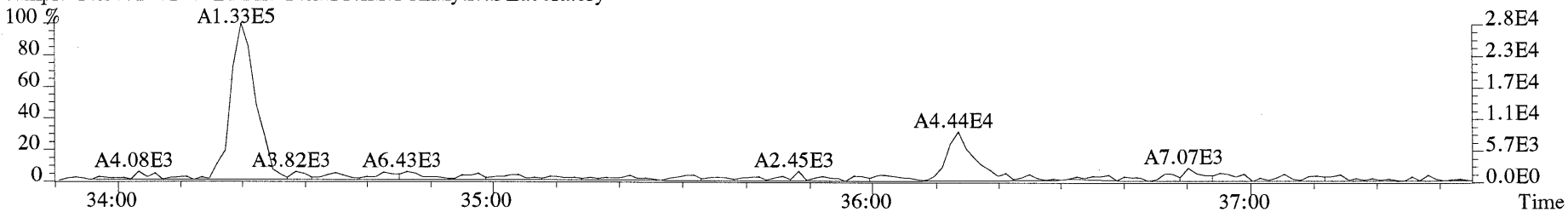
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



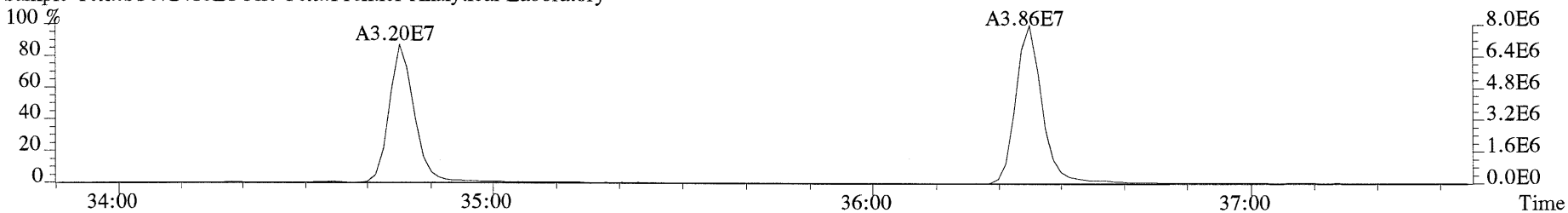
File:24JUL18Z #1-183 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



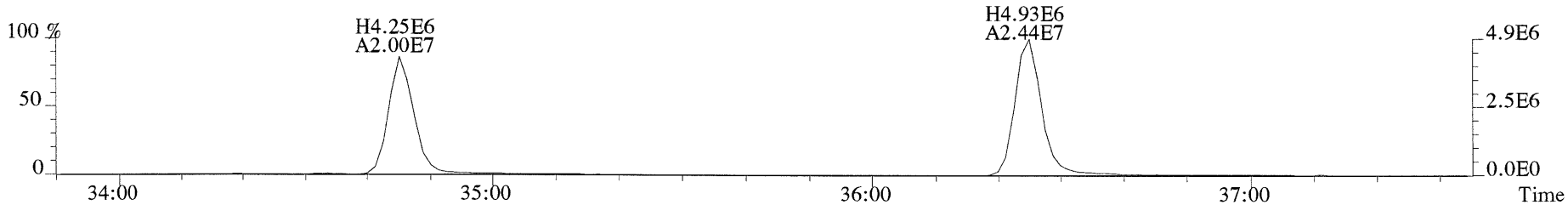
File:24JUL18Z #1-183 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



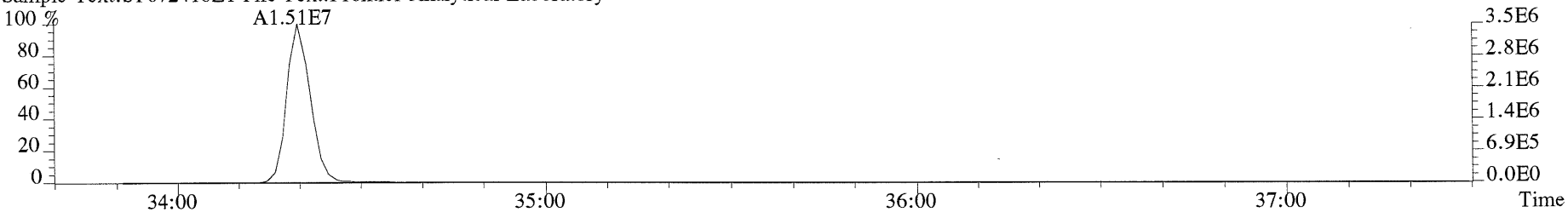
File:24JUL18Z #1-183 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



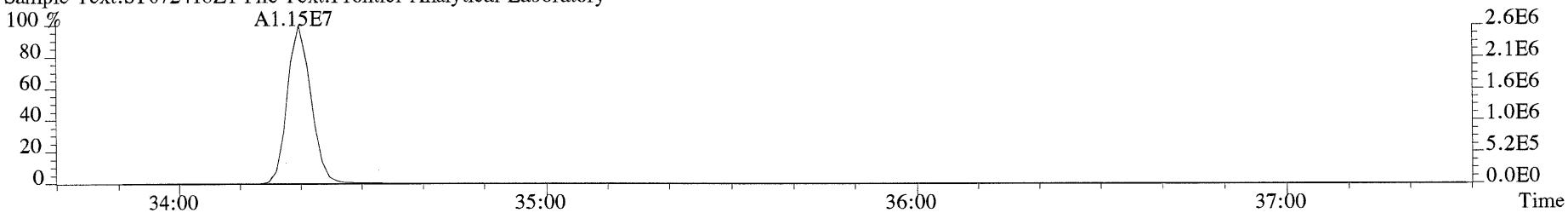
File:24JUL18Z #1-183 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



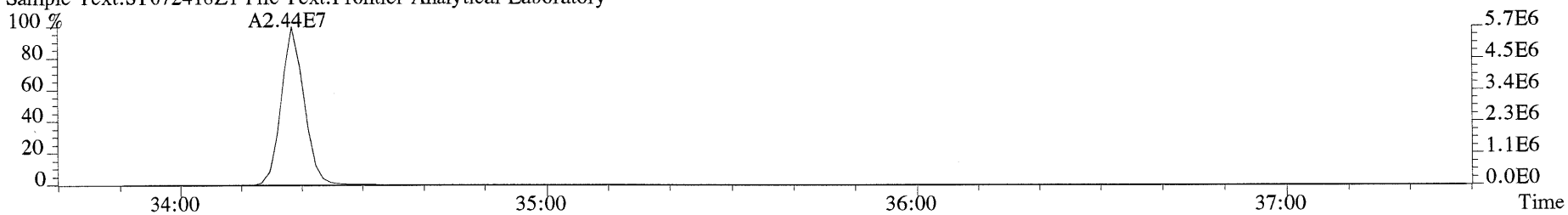
File:24JUL18Z #1-183 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



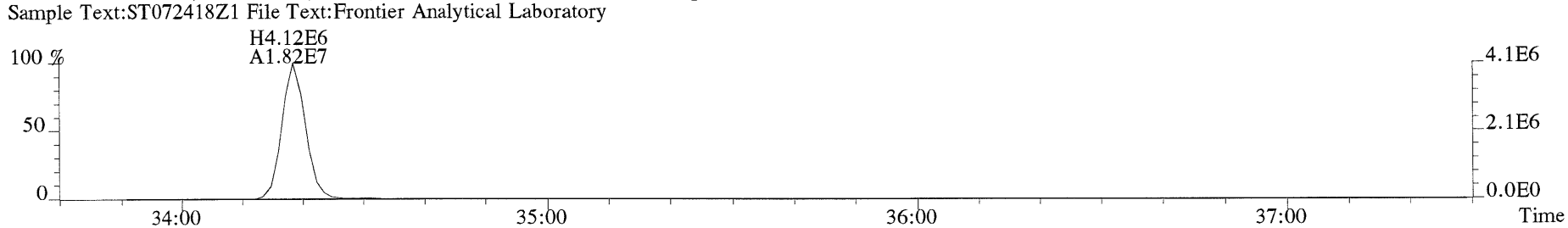
File:24JUL18Z #1-183 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



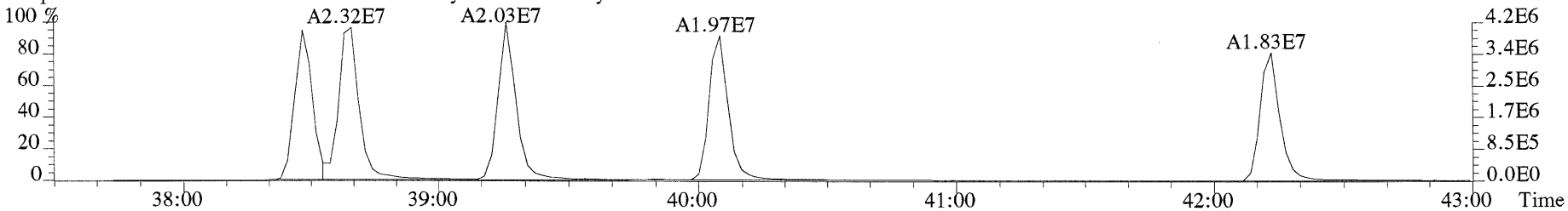
File:24JUL18Z #1-183 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



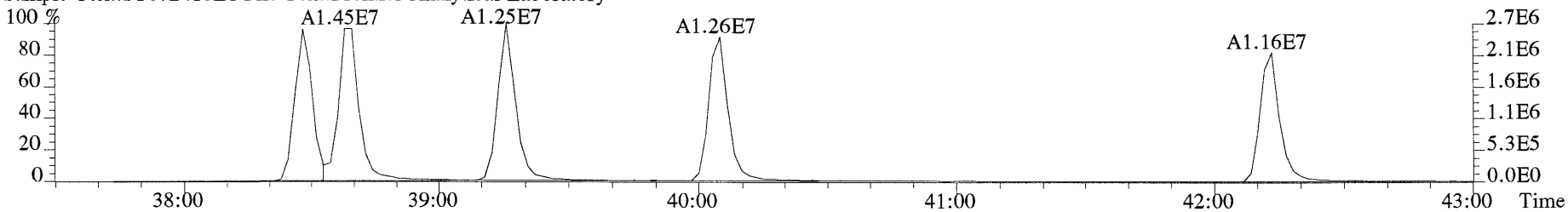
File:24JUL18Z #1-183 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



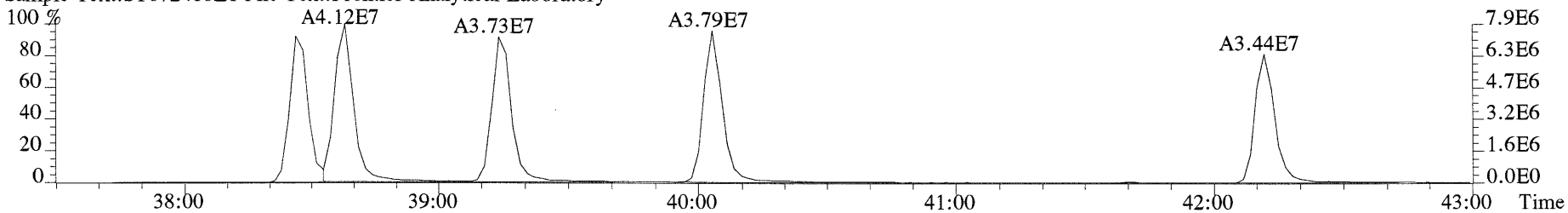
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



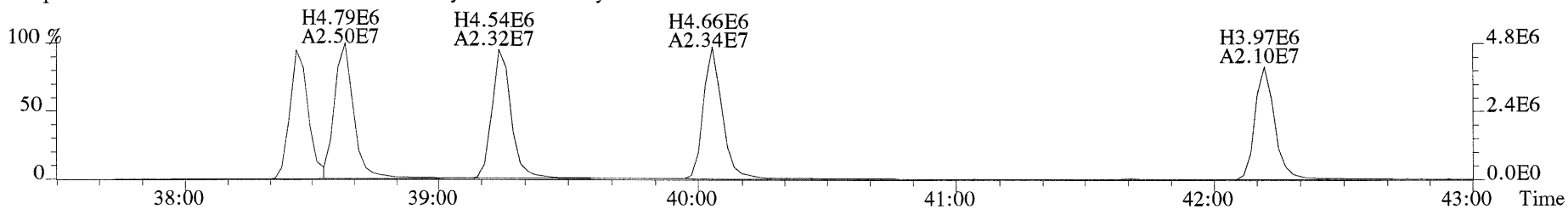
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



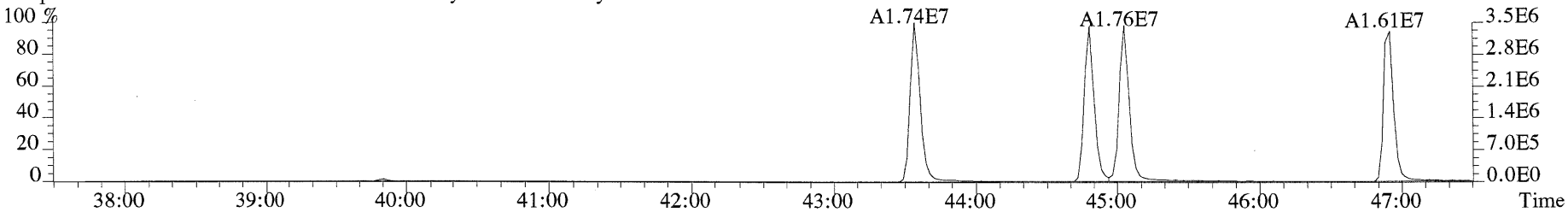
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



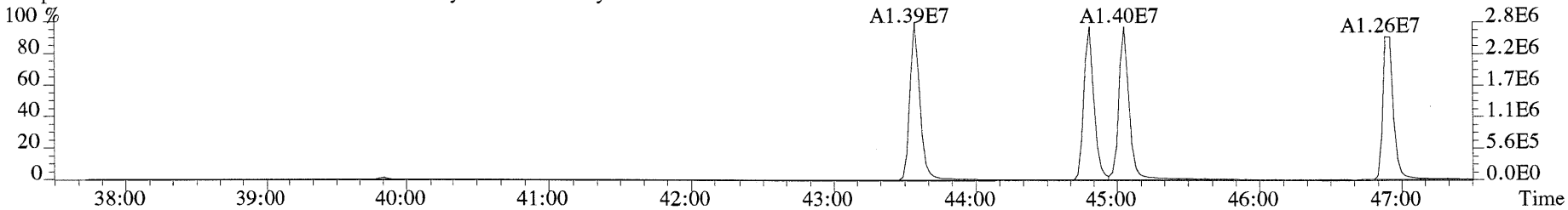
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



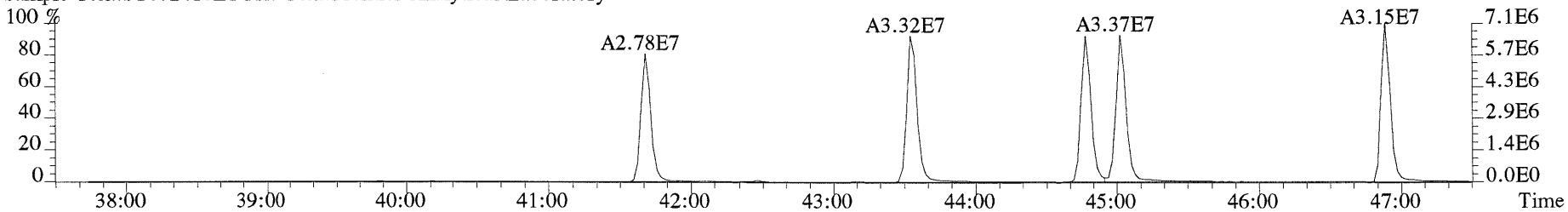
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



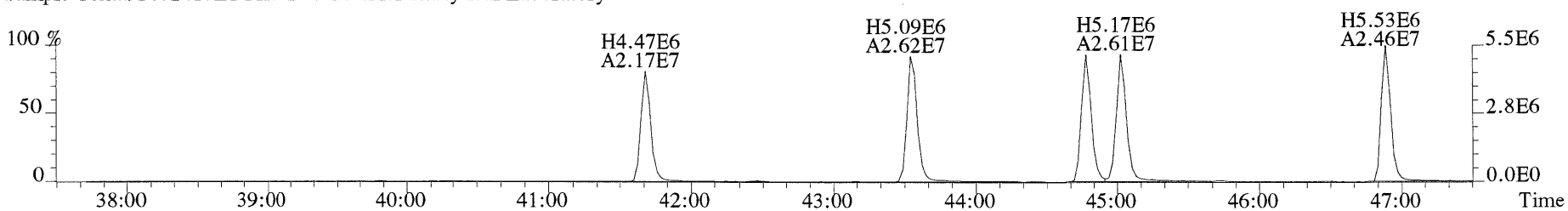
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



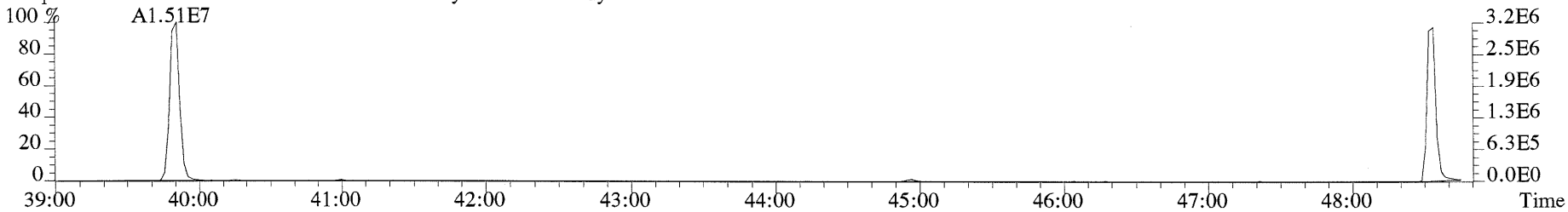
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



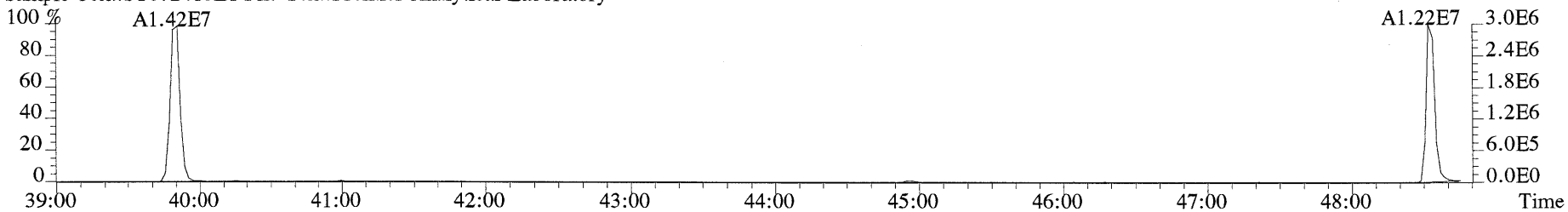
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



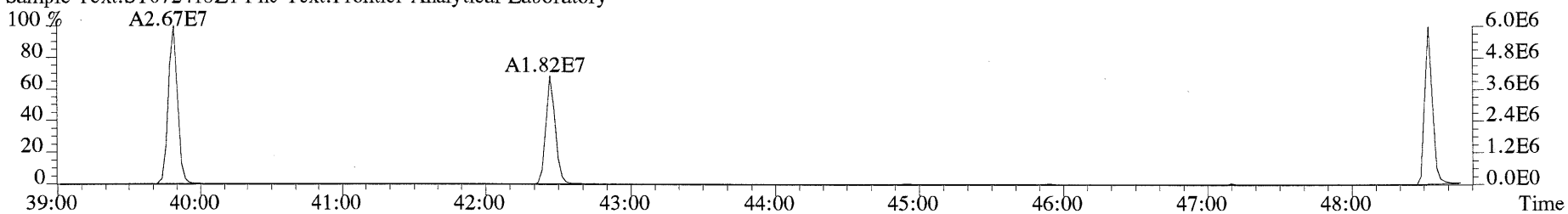
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



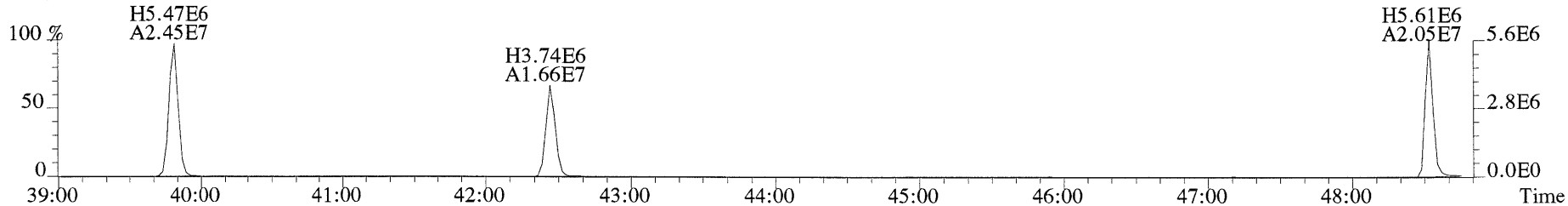
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



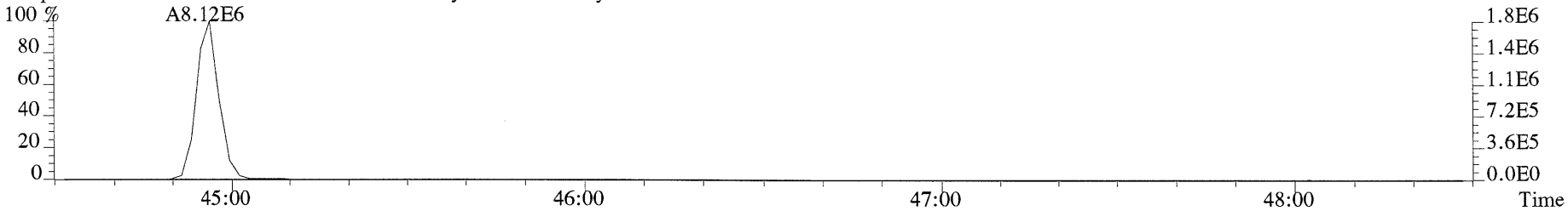
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



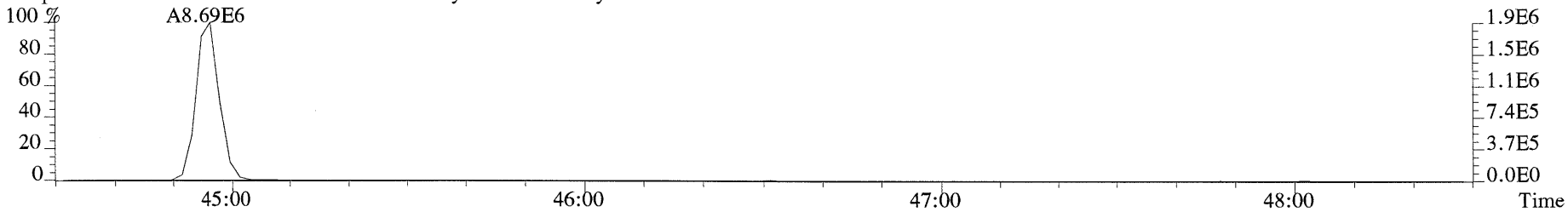
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



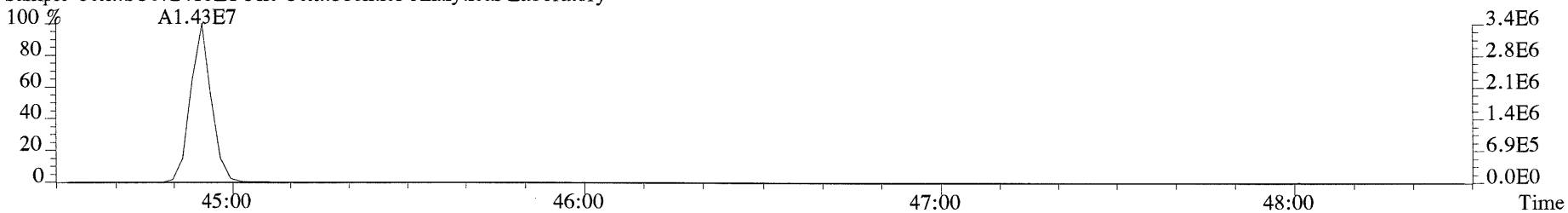
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



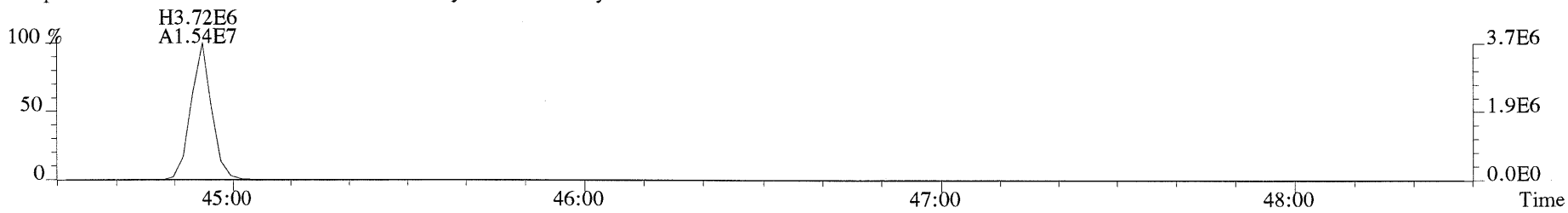
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



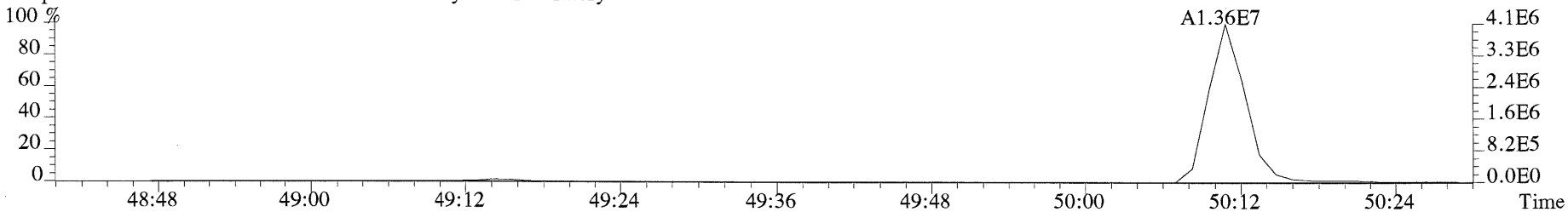
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



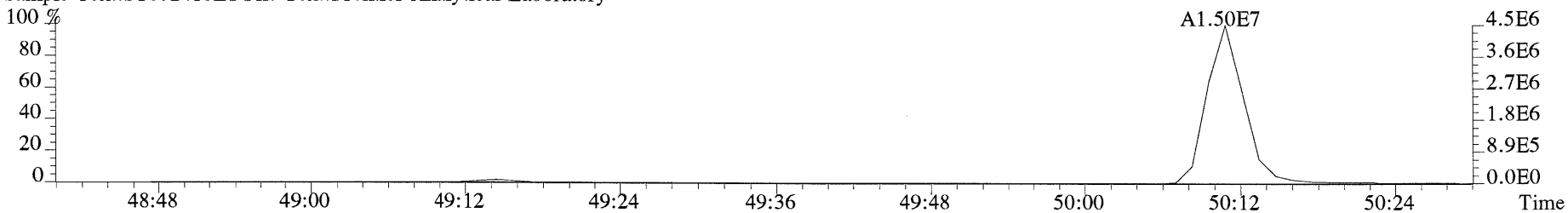
File:24JUL18Z #1-403 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



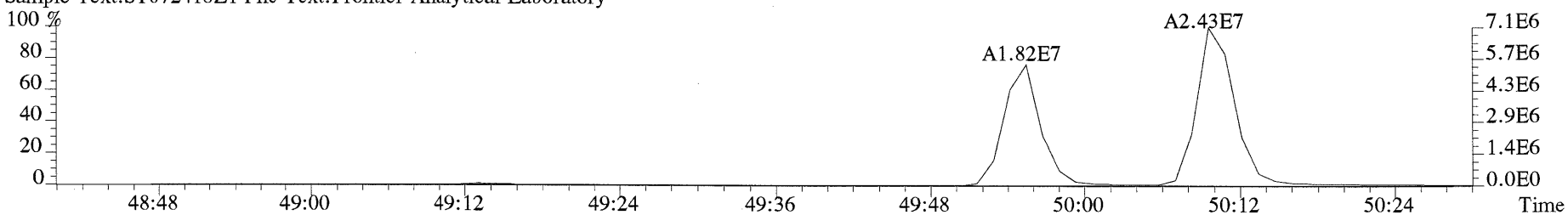
File:24JUL18Z #1-315 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



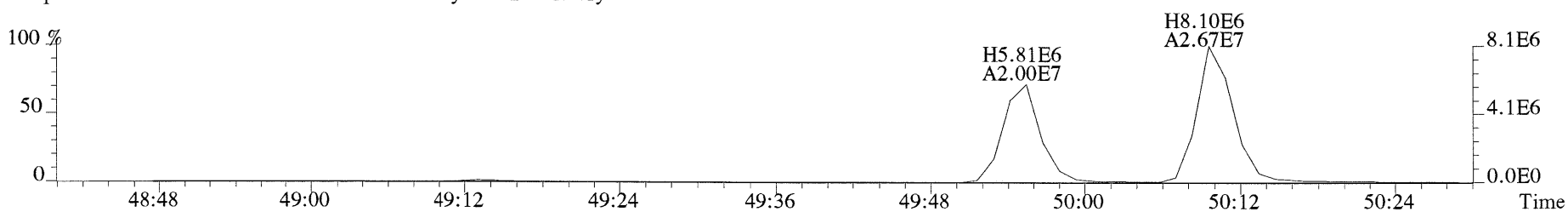
File:24JUL18Z #1-315 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



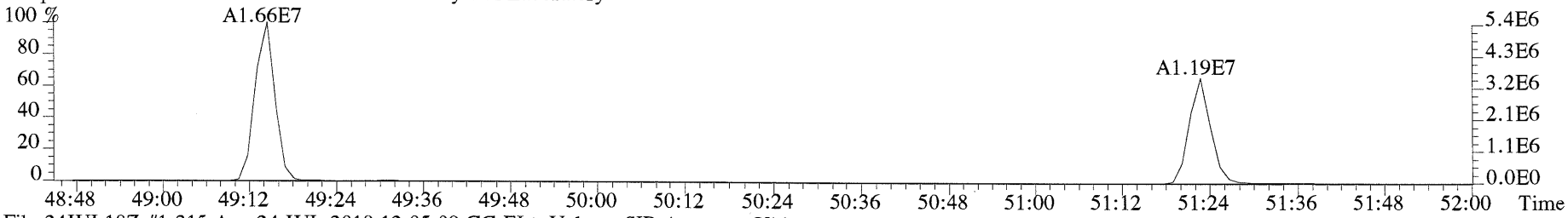
File:24JUL18Z #1-315 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



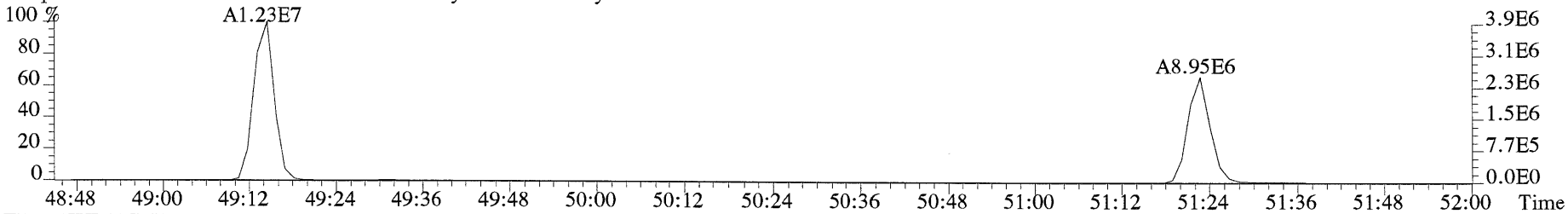
File:24JUL18Z #1-315 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



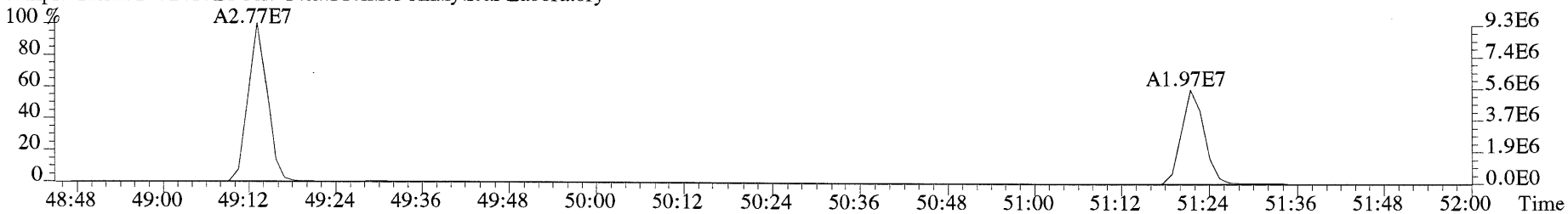
File:24JUL18Z #1-315 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



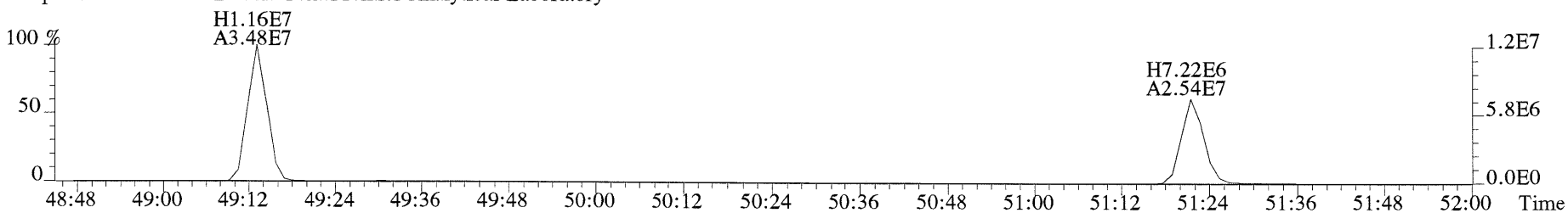
File:24JUL18Z #1-315 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



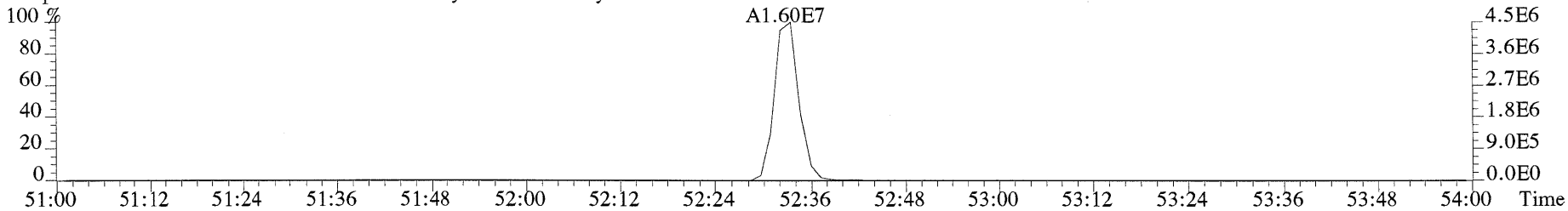
File:24JUL18Z #1-315 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



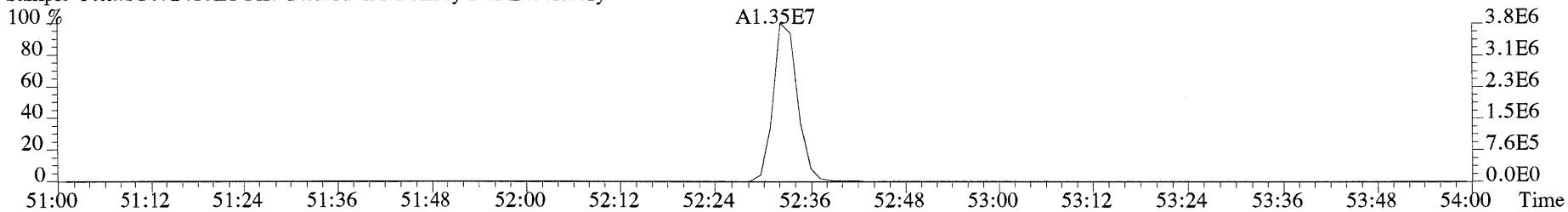
File:24JUL18Z #1-315 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



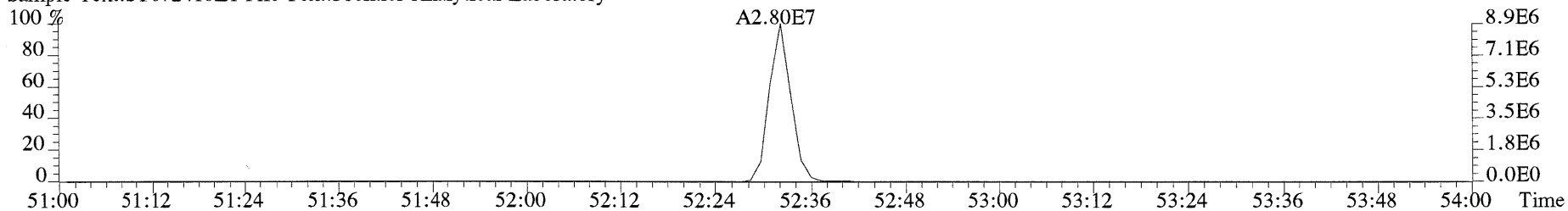
File:24JUL18Z #1-315 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



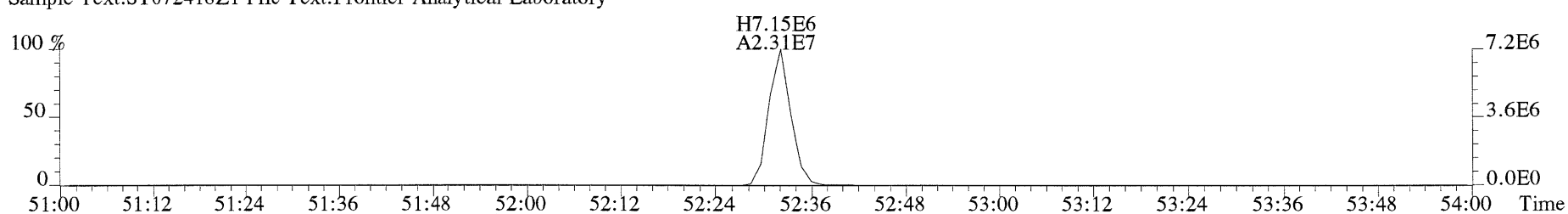
File:24JUL18Z #1-315 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory



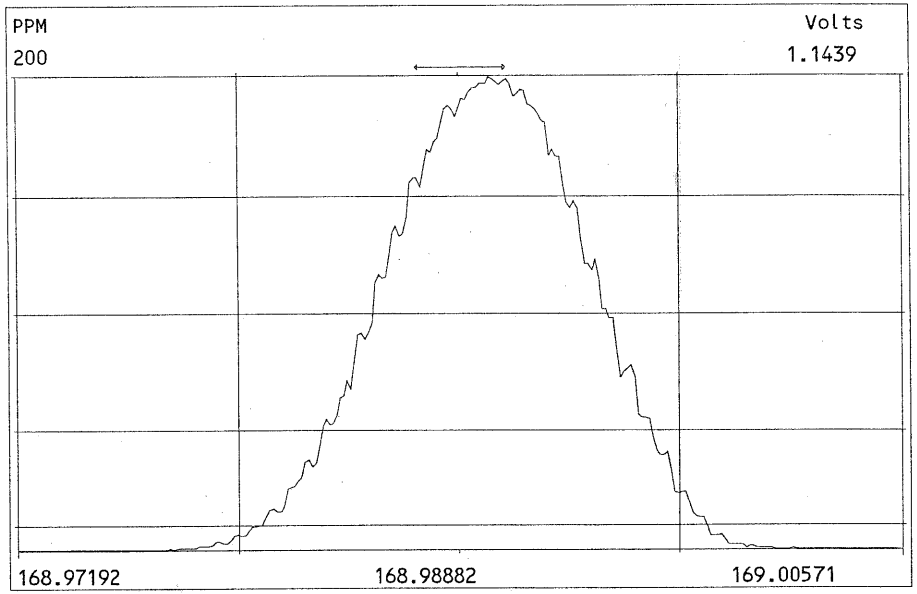
File:24JUL18Z #1-315 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory

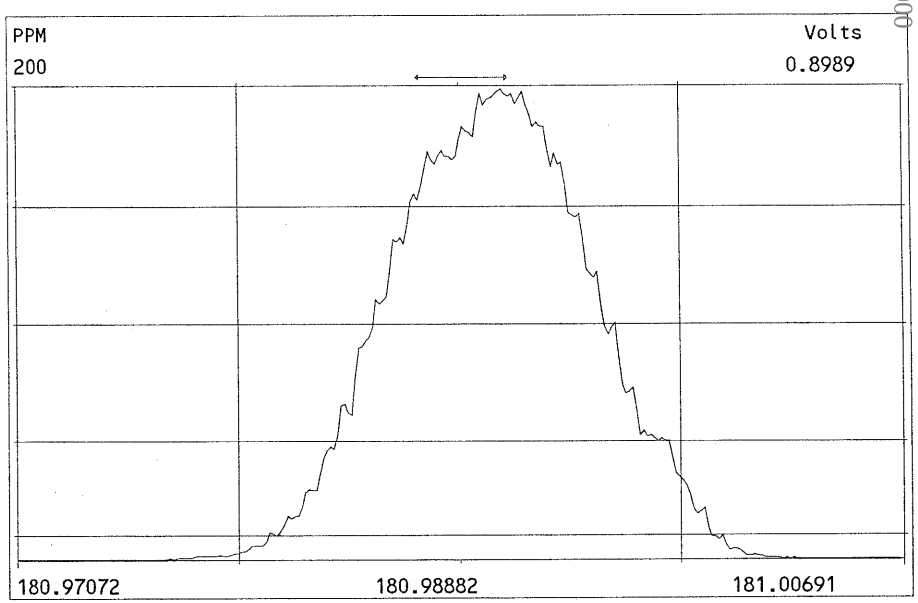


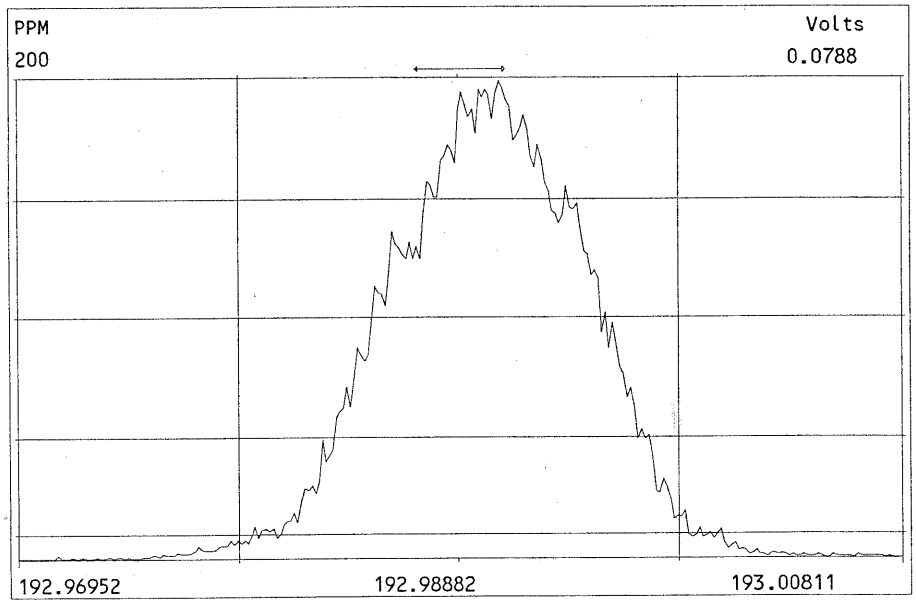
File:24JUL18Z #1-315 Acq:24-JUL-2018 12:05:09 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z1 File Text:Frontier Analytical Laboratory

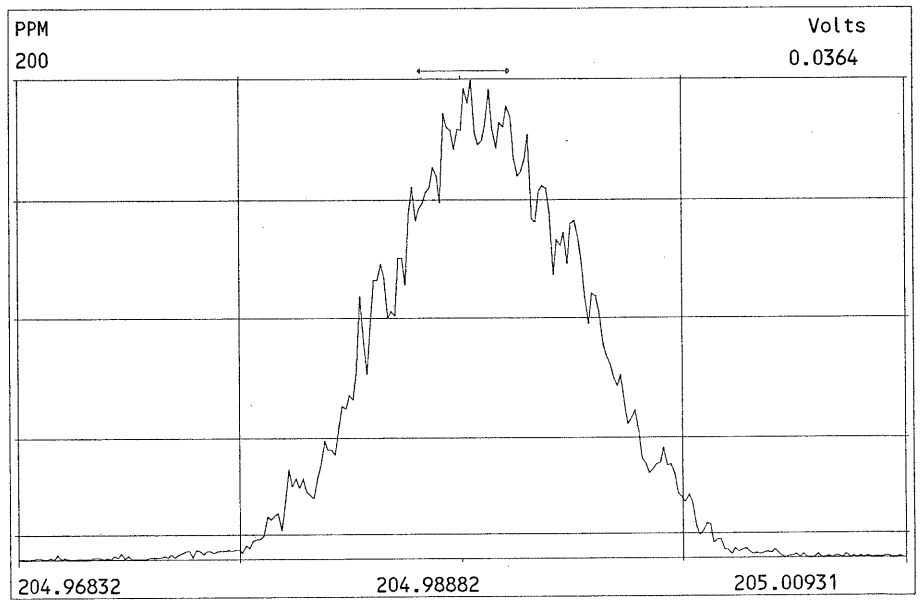


Peak Locate Examination:25-JUL-2018:00:17 File:24JUL18Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

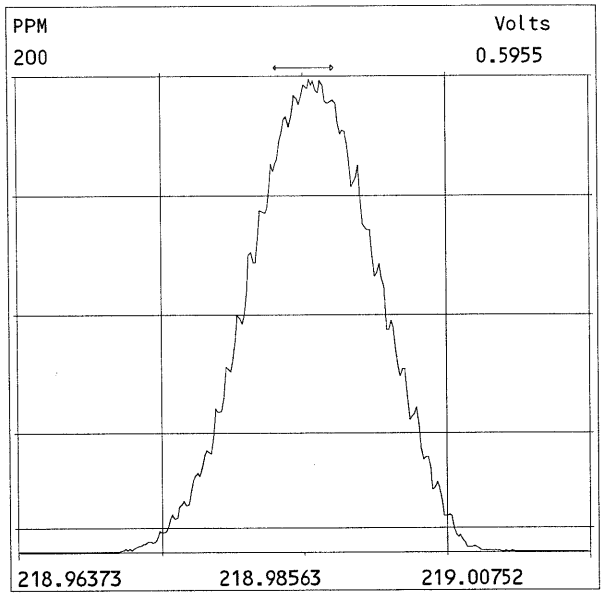


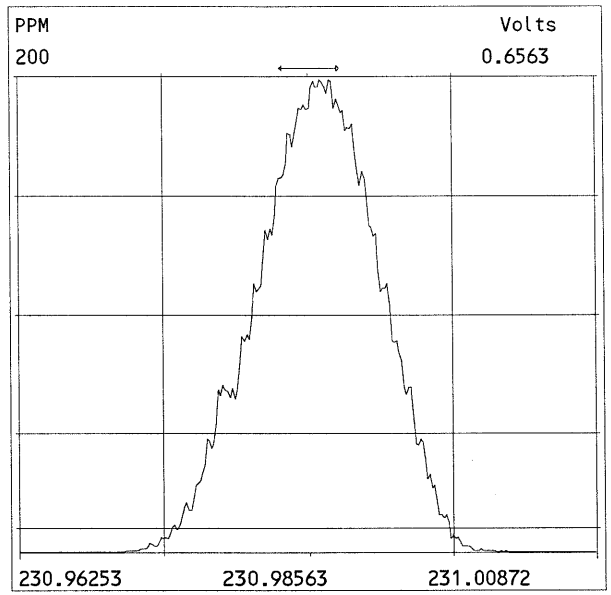


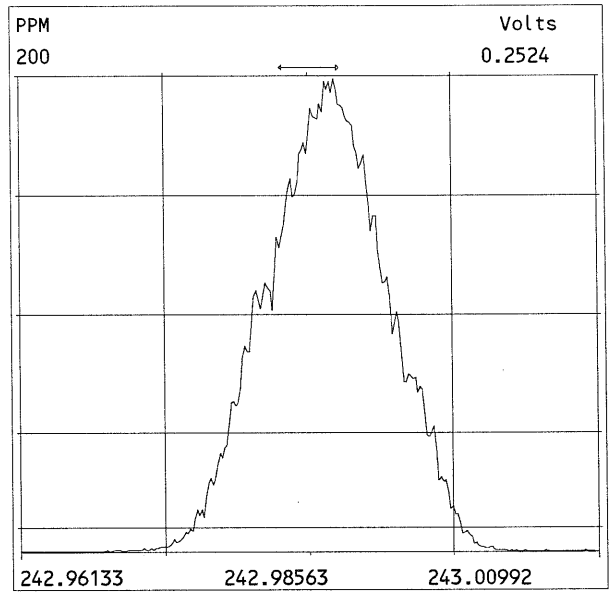


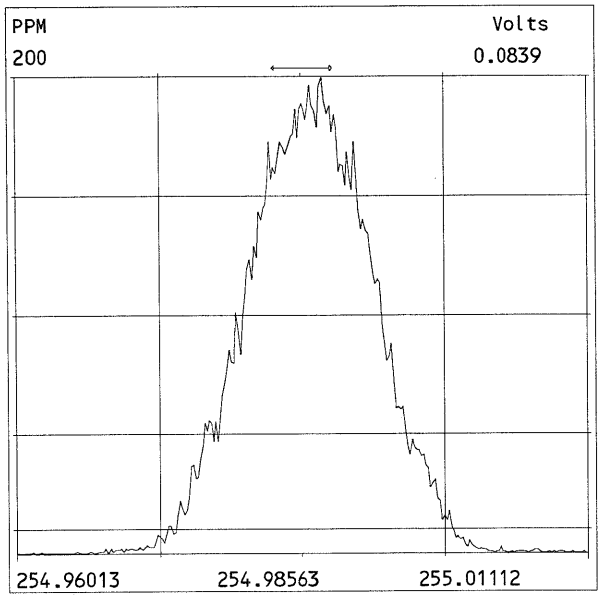


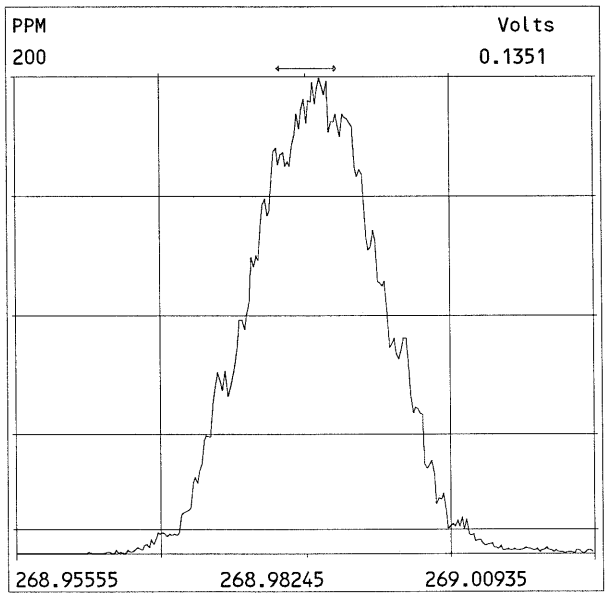
Peak Locate Examination:25-JUL-2018:00:20 File:24JUL18Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

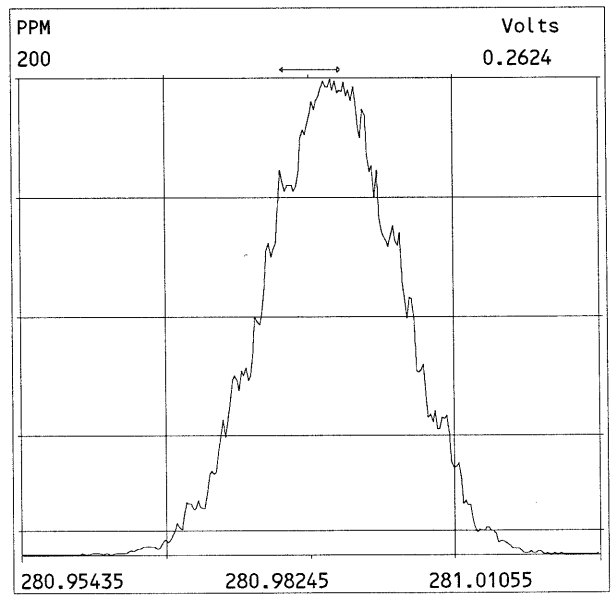




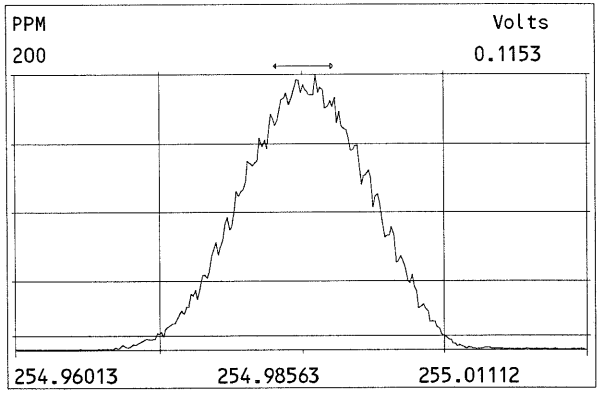


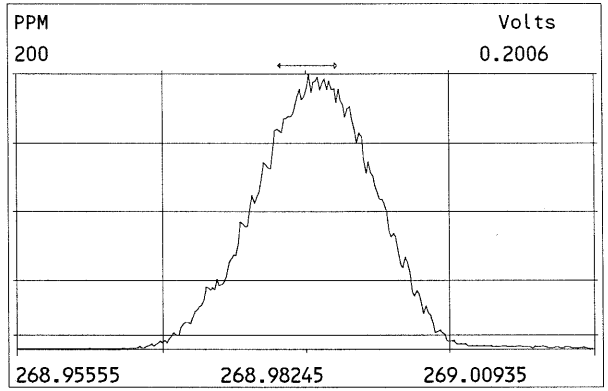


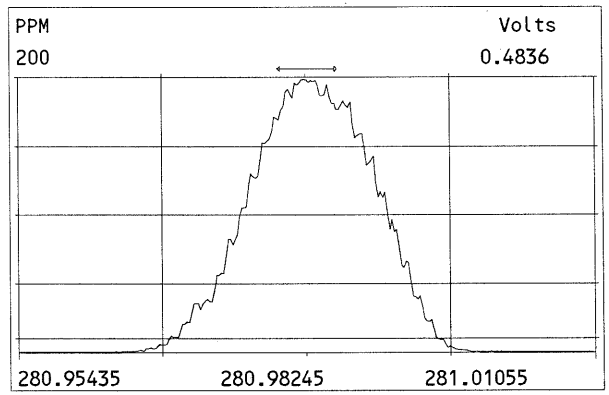


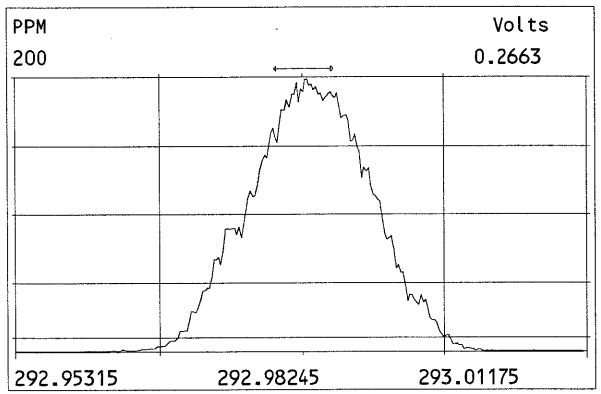


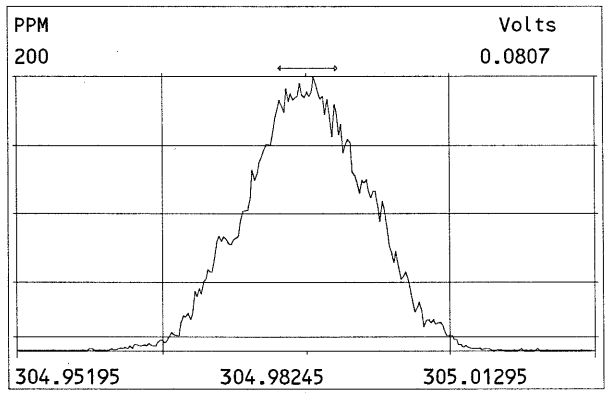
Peak Locate Examination:25-JUL-2018:00:22 File:24JUL18Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

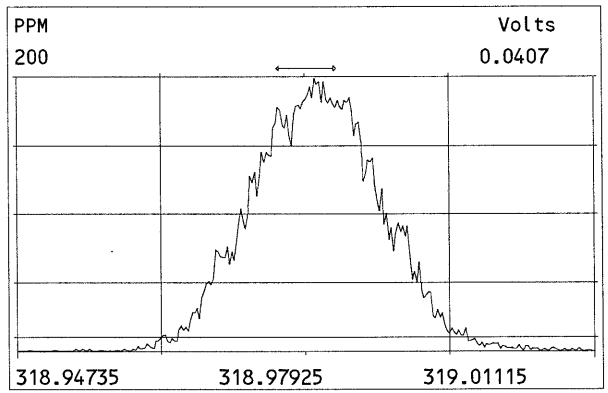


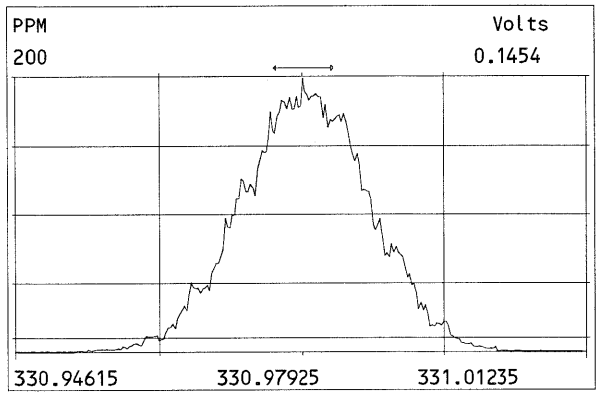


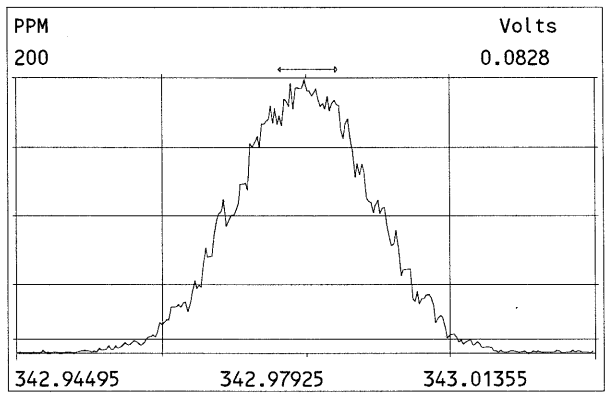




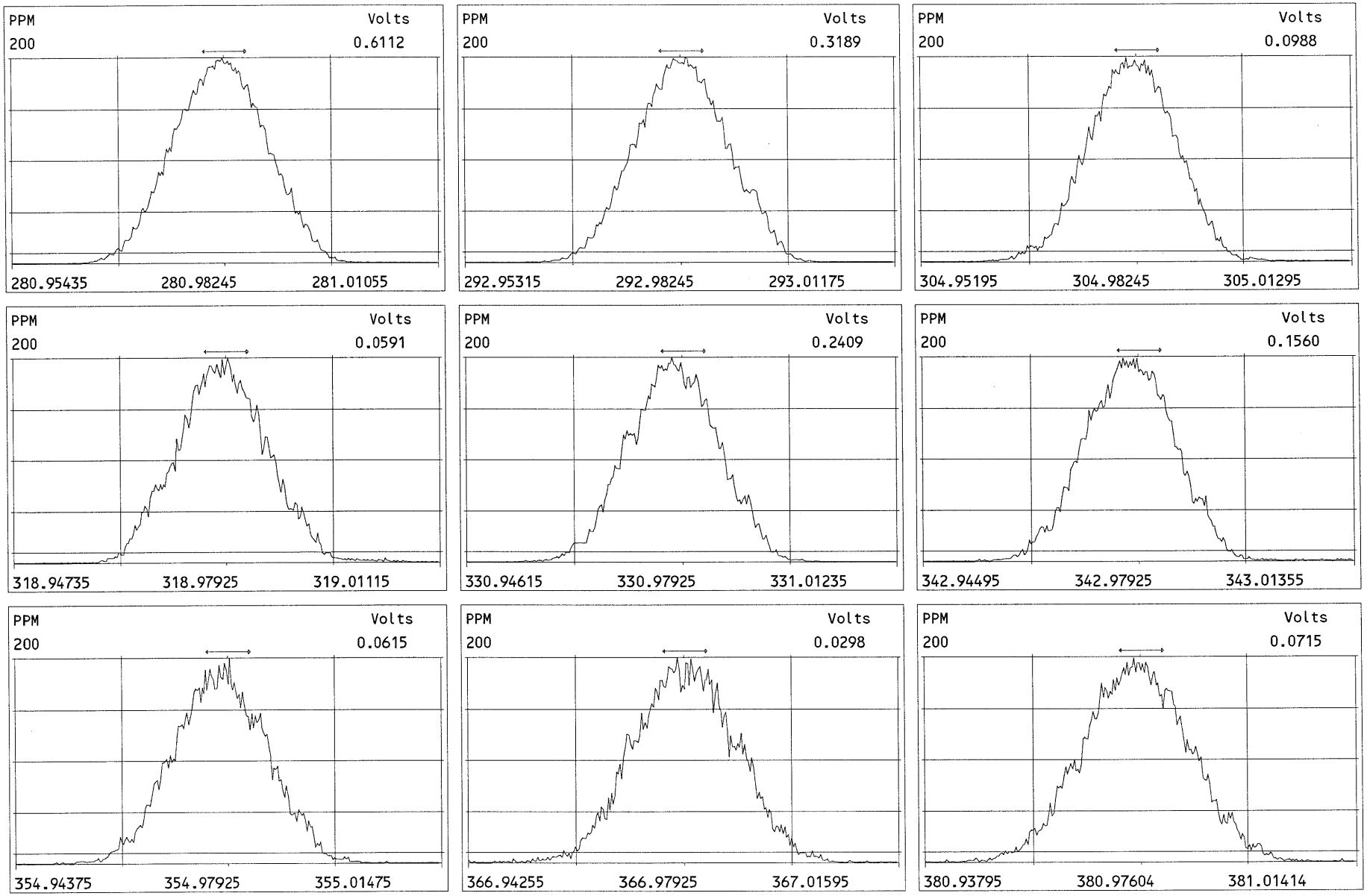




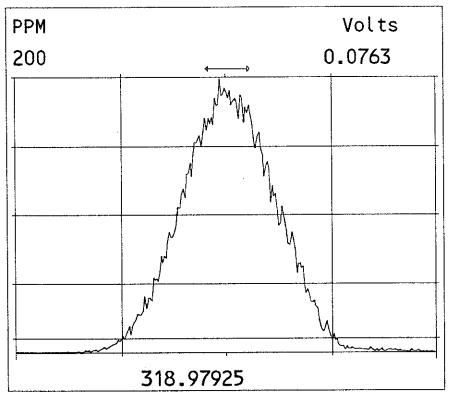


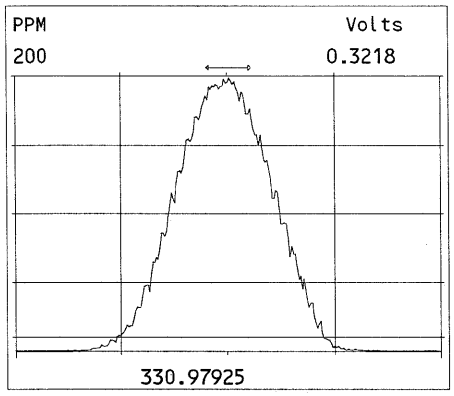


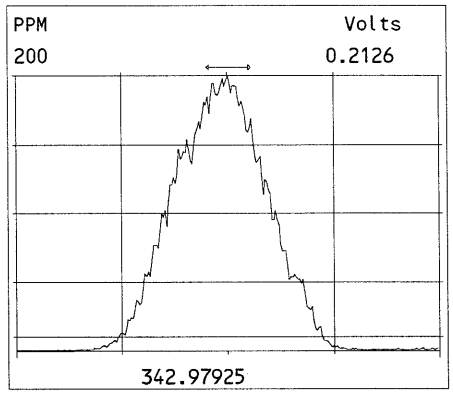
Peak Locate Examination:25-JUL-2018:00:24 File:24JUL18Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

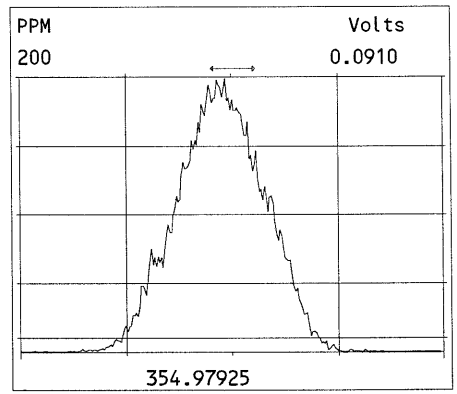


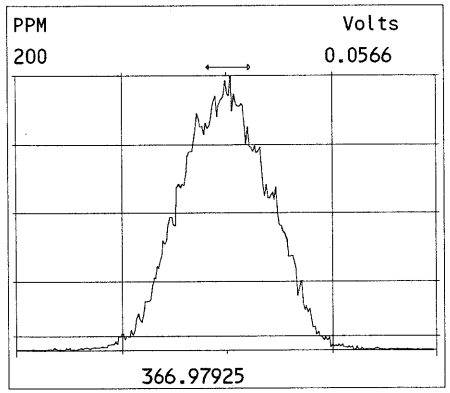
Peak Locate Examination:25-JUL-2018:00:27 File:24JUL18Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

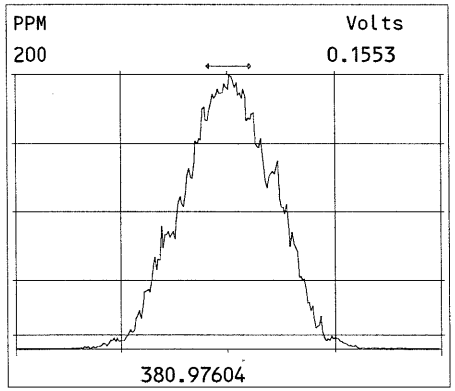


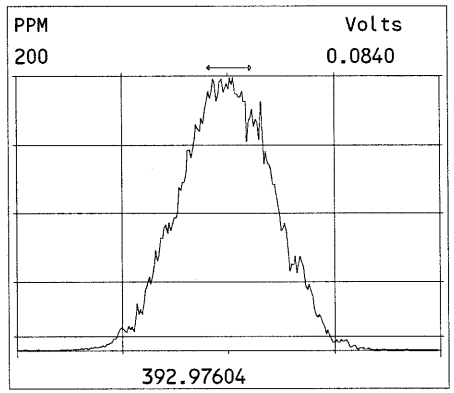


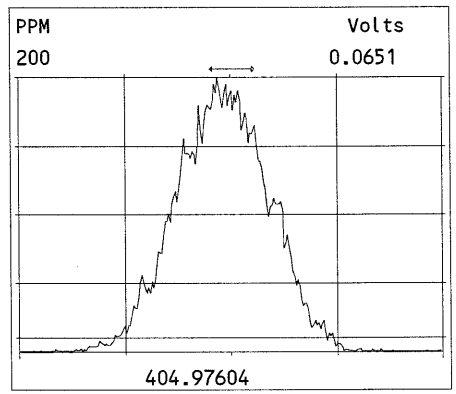


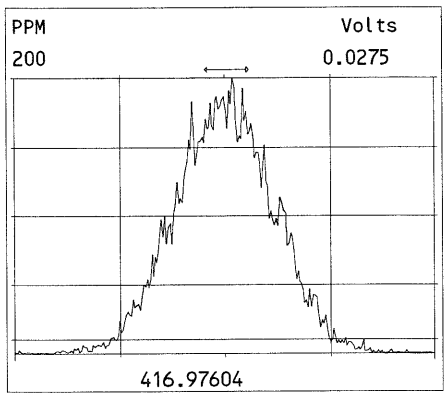


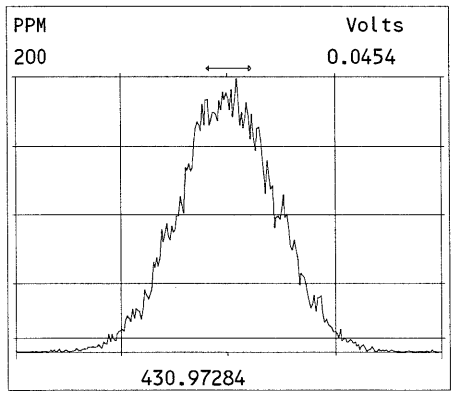


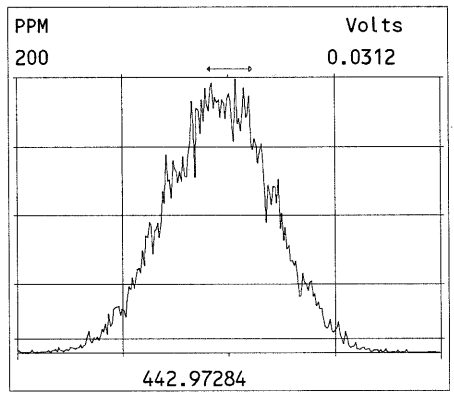




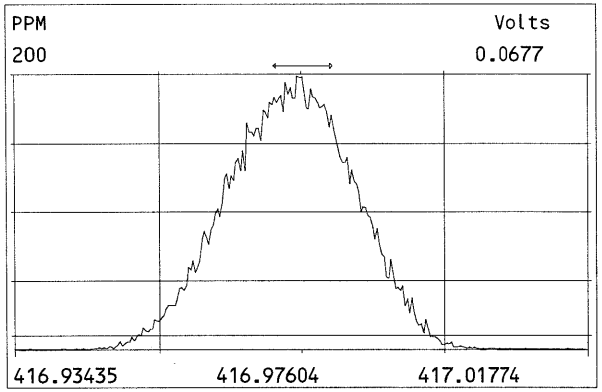


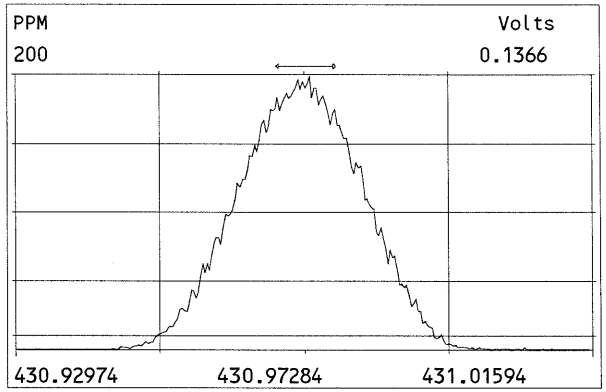


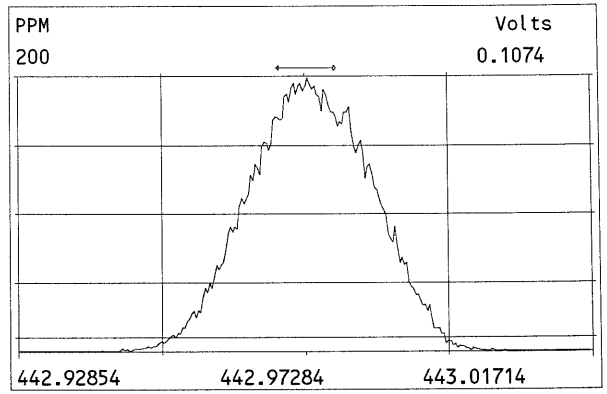


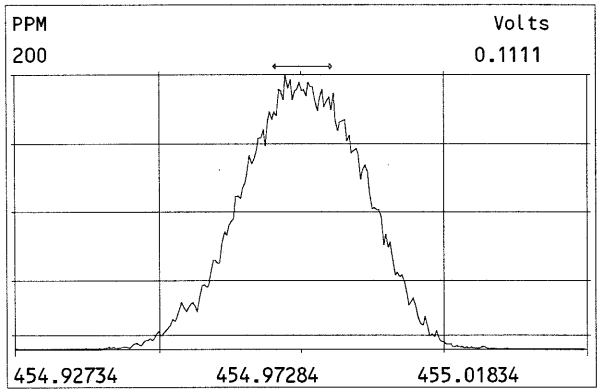


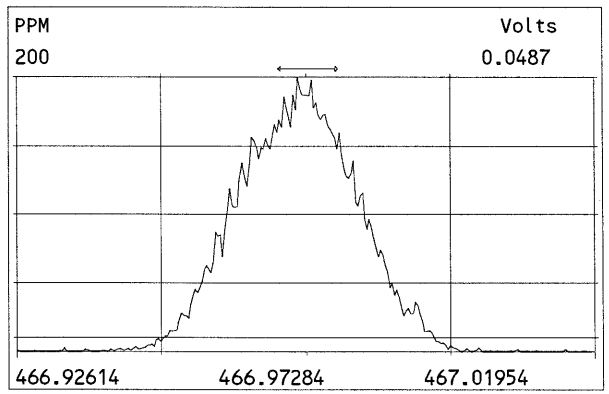
Peak Locate Examination:25-JUL-2018:00:29 File:24JUL18Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

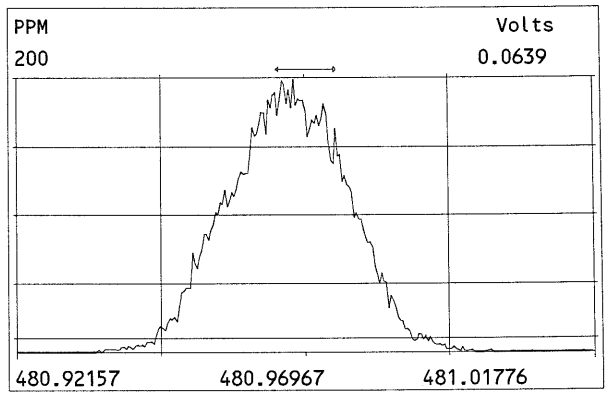


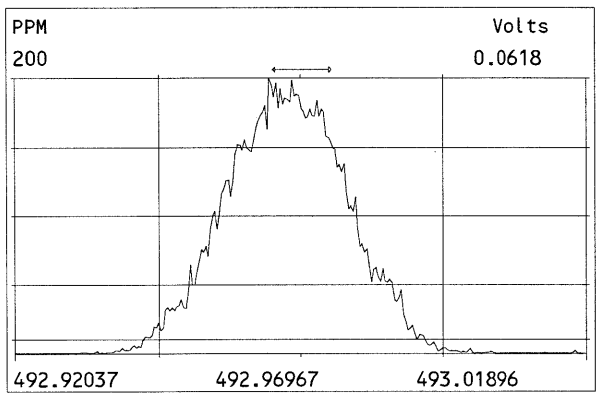


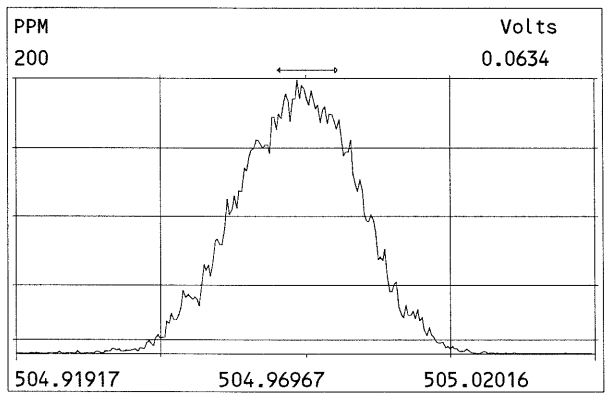


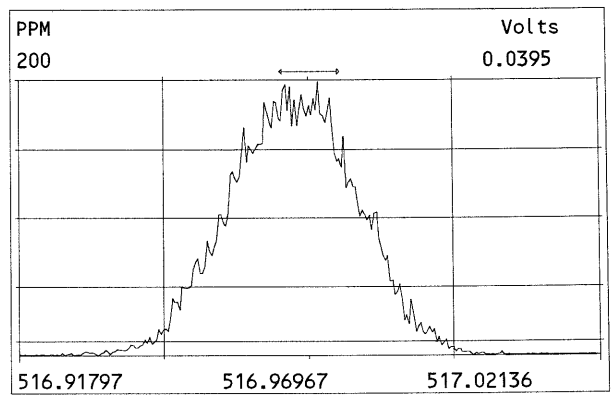












Cal: DAILY209FAL4-7-24-18

Run: 23JUL18Z Analyte: DAILY209FAL4-7-24-18 Results: 11704-7 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:24JUL18Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.0583	-	1.06	
13C-PCB-1	0.9708	-	0.97	
PCB-2	0.9688	-	0.97	
PCB-3	1.0458	-	1.05	
13C-PCB-3	0.9870	-	0.99	
PCB-4	1.1621	-	1.16	
PCB-10	1.0926	-	1.09	
13C-PCB-4	0.6234	-	0.62	
PCB-9	1.2166	*	1.22	
PCB-7	1.2276	-	1.23	
PCB-6	1.2206	-	1.22	
PCB-8	1.1480	*	1.15	
PCB-5	1.2879	-	1.29	
PCB-14	1.1516	-	1.15	
PCB-11	1.1468	-	1.15	
PCB-13	1.1746	*	1.17	
PCB-12	1.2267	-	1.23	
PCB-15	1.0959	-	1.10	
13C-PCB-15	0.9937	-	0.99	
PCB-19	1.1393	-	1.14	
PCB-30	1.5839	-	1.58	
PCB-18	1.1331	-	1.13	
PCB-17	1.1993	-	1.20	
PCB-27	1.5515	-	1.55	
PCB-24	1.6337	-	1.63	
PCB-16	1.2879	-	1.29	
PCB-32	1.4481	-	1.45	
13C-PCB-19	0.5055	-	0.51	
13C-PCB-9	-	-	-	
PCB-34	0.9229	-	0.92	
PCB-23	1.0401	-	1.04	
PCB-29	1.0304	-	1.03	
PCB-26	0.9852	-	0.99	
PCB-25	1.2183	-	1.22	
PCB-31	1.0248	-	1.02	
PCB-28	1.1378	-	1.14	
PCB-20	1.0638	-	1.06	Co-elute PCB 21/33
PCB-21	1.0638	-	1.06	Co-elute PCB 20/33
PCB-33	1.0638	-	1.06	Co-elute PCB 20/21
PCB-22	1.0913	-	1.09	
PCB-36	0.9953	-	1.00	
PCB-39	1.0319	-	1.03	
PCB-38	1.0508	-	1.05	
PCB-35	0.9739	-	0.97	
PCB-37	1.1616	-	1.16	
13C-PCB-37	1.5026	-	1.50	

PCB-54	1.1193	-	1.12	
PCB-50	0.8288	-	0.83	
PCB-53	0.8619	-	0.86	
PCB-51	0.8866	-	0.89	
PCB-45	0.7565	-	0.76	
PCB-46	0.7384	-	0.74	
PCB-52	1.0504	-	1.05	Co-elute PCB 69
PCB-69	1.0504	-	1.05	Co-elute PCB 52
PCB-73	1.1473	-	1.15	
PCB-43	0.8458	-	0.85	Co-elute PCB 49
PCB-49	0.8458	-	0.85	Co-elute PCB 43
PCB-47	1.1611	-	1.16	
PCB-48	1.0419	-	1.04	Co-elute PCB 75
PCB-75	1.0419	-	1.04	Co-elute PCB 48
PCB-65	1.0889	-	1.09	
PCB-62	1.0854	-	1.09	
PCB-44	0.8101	-	0.81	
PCB-42	1.0782	-	1.08	Co-elute PCB 59
PCB-59	1.0782	-	1.08	Co-elute PCB 42
PCB-72	1.1405	-	1.14	Co-elute PCB 41/71/64
PCB-41	1.1405	-	1.14	Co-elute PCB 72/71/64
PCB-71	1.1405	-	1.14	Co-elute PCB 72/41/64
PCB-64	1.1405	-	1.14	Co-elute PCB 72/41/71
PCB-68	1.2440	-	1.24	
PCB-40	0.6950	-	0.69	
PCB-57	1.1195	-	1.12	
PCB-67	1.1785	-	1.18	
PCB-58	1.1313	-	1.13	
PCB-63	1.1702	-	1.17	
PCB-74	1.2733	-	1.27	
PCB-61	1.2289	-	1.23	Co-elute PCB 70
PCB-70	1.2289	-	1.23	Co-elute PCB 61
PCB-76	1.2353	-	1.24	Co-elute PCB 66
PCB-66	1.2353	-	1.24	Co-elute PCB 76
PCB-80	1.3471	-	1.35	
PCB-55	1.2388	-	1.24	
13C-PCB-54	1.0837	-	1.08	
PCB-104	1.3178	-	1.32	
PCB-96	1.1903	-	1.19	
PCB-103	1.0243	-	1.02	
PCB-100	1.0414	-	1.04	
PCB-94	0.8900	-	0.89	
PCB-98	1.0464	-	1.05	Co-elute PCB 102
PCB-102	1.0464	-	1.05	Co-elute PCB 98
PCB-95	1.0103	*	1.01	
PCB-93	0.9051	-	0.91	
PCB-88	0.9954	-	1.00	Co-elute PCB 91
PCB-91	0.9954	-	1.00	Co-elute PCB 88
PCB-121	1.2158	-	1.22	
13C-PCB-104	0.5835	-	0.58	
13C-PCB-28	1.5994	-	1.60	
13C-PCB-52	-	-	-	

PCB-56	1.1113	-	1.11	Co-elute PCB 60
PCB-60	1.1113	-	1.11	Co-elute PCB 56
PCB-79	1.0981	-	1.10	
PCB-78	1.0695	-	1.07	
PCB-81	1.1201	-	1.12	
13C-PCB-81	1.3886	-	1.39	
PCB-77	1.0750	-	1.07	
13C-PCB-77	1.4255	-	1.43	
PCB-155	1.2278	-	1.23	
PCB-150	1.1072	-	1.11	
PCB-152	1.0647	-	1.06	
PCB-145	1.0851	-	1.09	
PCB-136	1.0146	-	1.01	
PCB-148	0.8552	-	0.86	
PCB-154	0.9917	-	0.99	
13C-PCB-155	0.7418	-	0.74	
13C-PCB-111	1.1738	-	1.17	
13C-PCB-101	-	-	-	
PCB-84	0.6615	-	0.66	Co-elute PCB 92
PCB-92	0.6615	-	0.66	Co-elute PCB 84
PCB-89	0.6598	-	0.66	
PCB-90	0.7512	-	0.75	Co-elute PCB 101
PCB-101	0.7512	-	0.75	Co-elute PCB 90
PCB-113	0.8168	-	0.82	
PCB-99	0.8710	-	0.87	
PCB-119	0.9538	-	0.95	
PCB-83	0.7581	-	0.76	Co-elute PCB 112
PCB-112	0.7581	-	0.76	Co-elute PCB 83
PCB-109	0.9272	-	0.93	
PCB-97	0.8401	-	0.84	
PCB-86	0.7329	*	0.73	
PCB-125	0.8437	-	0.84	Co-elute PCB 87/117
PCB-87	0.8437	-	0.84	Co-elute PCB 125/117
PCB-117	0.8437	-	0.84	Co-elute PCB 125/87
PCB-111	1.0599	-	1.06	Co-elute PCB 115
PCB-115	1.0599	-	1.06	Co-elute PCB 111
PCB-85	0.8319	-	0.83	Co-elute PCB 116
PCB-116	0.8319	-	0.83	Co-elute PCB 85
PCB-120	0.9965	-	1.00	
PCB-110	0.9992	-	1.00	
PCB-82	0.5697	-	0.57	
PCB-124	1.1216	-	1.12	
PCB-108	1.0526	-	1.05	Co-elute PCB 107
PCB-107	1.0526	-	1.05	Co-elute PCB 108
PCB-123	1.3004	-	1.30	
13C-PCB-123	1.2305	-	1.23	
PCB-118	1.0114	-	1.01	Co-elute PCB 106
PCB-106	1.0114	-	1.01	Co-elute PCB 118
13C-PCB-118	1.3845	-	1.38	
PCB-114	1.1110	-	1.11	
13C-PCB-114	1.2737	-	1.27	
PCB-122	1.1228	-	1.12	
PCB-105	1.0959	-	1.10	
13C-PCB-105	1.2896	-	1.29	
PCB-127	1.0181	-	1.02	
PCB-126	1.1258	-	1.13	
13C-PCB-126	1.2510	-	1.25	

PCB-151	0.7946	-	0.79	
PCB-135	0.8318	-	0.83	
PCB-144	0.8040	-	0.80	
PCB-147	0.8807	-	0.88	
PCB-139	0.8815	-	0.88	Co-elute PCB 149
PCB-149	0.8815	-	0.88	Co-elute PCB 139
PCB-140	0.8625	-	0.86	
PCB-143	0.8032	-	0.80	Co-elute PCB 134
PCB-134	0.8032	-	0.80	Co-elute PCB 143
PCB-131	0.8214	-	0.82	Co-elute PCB 133
PCB-133	0.8214	-	0.82	Co-elute PCB 131
PCB-142	0.7285	-	0.73	
PCB-165	0.9786	-	0.98	Co-elute PCB 146
PCB-146	0.9786	-	0.98	Co-elute PCB 165
PCB-161	0.8904	-	0.89	Co-elute PCB 132
PCB-132	0.8904	-	0.89	Co-elute PCB 161
PCB-153	0.9410	-	0.94	
PCB-168	1.0669	-	1.07	
PCB-141	0.8298	-	0.83	
PCB-137	0.7926	-	0.79	
PCB-130	0.7350	-	0.74	
PCB-138	1.0776	-	1.08	Co-elute PCB 163/164
PCB-163	1.0776	-	1.08	Co-elute PCB 138/164
PCB-164	1.0776	-	1.08	Co-elute PCB 138/163
PCB-158	1.0905	-	1.09	Co-elute PCB 160
PCB-160	1.0905	-	1.09	Co-elute PCB 158
PCB-129	0.6873	-	0.69	
PCB-166	1.0190	-	1.02	
PCB-159	1.0844	-	1.08	
PCB-128	0.9144	-	0.91	Co-elute PCB 162
PCB-162	0.9144	-	0.91	Co-elute PCB 128
PCB-167	1.0110	-	1.01	
13C-PCB-167	1.1618	-	1.16	
PCB-156	1.0236	-	1.02	
13C-PCB-156	1.1341	-	1.13	
PCB-157	1.0956	-	1.10	
13C-PCB-157	1.1486	-	1.15	
PCB-169	1.0294	-	1.03	
13C-PCB-169	1.1624	-	1.16	
PCB-188	1.1572	-	1.16	
13C-PCB-188	0.8892	-	0.89	

PCB-184	1.1769	-	1.18	
PCB-179	1.0963	-	1.10	
PCB-176	1.0665	-	1.07	
PCB-186	1.1181	-	1.12	
PCB-178	0.7841	-	0.78	
PCB-175	0.8269	-	0.83	
PCB-187	0.9284	-	0.93	Co-elute PCB 182
PCB-182	0.9284	-	0.93	Co-elute PCB 187
PCB-183	0.8803	-	0.88	
PCB-185	0.8584	-	0.86	
PCB-174	0.8175	-	0.82	
PCB-181	0.8848	-	0.88	
PCB-177	0.7730	-	0.77	
PCB-171	0.7932	-	0.79	
PCB-173	0.7661	-	0.77	
PCB-172	0.7591	-	0.76	
PCB-192	1.0759	-	1.08	
PCB-180	1.0426	-	1.04	
PCB-193	1.1107	-	1.11	
PCB-191	1.0634	-	1.06	
PCB-170	0.7463	-	0.75	
PCB-190	1.0633	-	1.06	
PCB-189	1.1407	-	1.14	
13C-PCB-189	0.8618	-	0.86	
PCB-202	1.0270	-	1.03	
PCB-201	1.0189	-	1.02	
PCB-204	0.9783	-	0.98	
PCB-197	1.0892	-	1.09	
PCB-200	0.9954	-	1.00	
PCB-198	0.7196	-	0.72	
PCB-199	0.8632	-	0.86	
PCB-203	0.8704	-	0.87	Co-elute PCB 196
PCB-196	0.8704	-	0.87	Co-elute PCB 203
13C-PCB-202	0.5120	-	0.51	
13C-PCB-178	0.6660	-	0.67	
13C-PCB-138	-	-	-	
PCB-195	0.7911	-	0.79	
PCB-194	0.8221	-	0.82	
PCB-205	1.0963	-	1.10	
13C-PCB-205	1.2350	-	1.23	
PCB-208	0.9356	-	0.94	
13C-PCB-208	1.3460	-	1.35	
PCB-207	0.9175	*	0.92	
PCB-206	0.9602	-	0.96	
13C-PCB-206	1.0059	-	1.01	
PCB-209	1.0632	-	1.06	
13C-PCB-209	1.2197	-	1.22	
13C-PCB-194	-	-	-	

Analyst: J Date: 7/25/18

Run #1 Filename 24JUL18Z S: 2 Acquired: 24-JUL-18 13:03:29 Cal: DAILY209FAL4-7-24-18
Client ID: SS072418Z1 Analyte: FAL ID: Daily 209 171222A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	3.85e+07	3.16 y	14:36	-	1.06	
2	IS/RT	13C-PCB-1	100.00	7.28e+07	3.20 y	14:35	-	0.971	
3	Unk	PCB-2	50.00	3.56e+07	3.13 y	16:50	-	0.969	
4	Unk	PCB-3	50.00	3.87e+07	3.18 y	17:04	-	1.05	
5	IS/RT	13C-PCB-3	100.00	7.40e+07	3.24 y	17:02	-	0.987	
6	Unk	PCB-4	50.00	2.72e+07	1.53 y	18:17	-	1.16	
7	Unk	PCB-10	50.00	3.31e+07	1.51 y	18:20	-	1.09	
8	IS/RT	13C-PCB-4	100.00	4.68e+07	1.55 y	18:16	-	0.623	
9	Unk	PCB-9	50.00	3.69e+07	1.53 y	20:00	-	1.22	
10	Unk	PCB-7	50.00	3.72e+07	1.54 y	20:01	-	1.23	
11	Unk	PCB-6	50.00	3.70e+07	1.53 y	20:36	-	1.22	
12	Unk	PCB-8	50.00	3.48e+07	1.48 y	21:00	-	1.15	
13	Unk	PCB-5	50.00	3.91e+07	1.59 y	21:01	-	1.29	
14	Unk	PCB-14	50.00	3.49e+07	1.55 y	22:03	-	1.15	
15	Unk	PCB-11	50.00	3.48e+07	1.55 y	23:10	-	1.15	
16	Unk	PCB-13	50.00	3.56e+07	1.47 y	23:32	-	1.17	
17	Unk	PCB-12	50.00	3.72e+07	1.58 y	23:34	-	1.23	
18	Unk	PCB-15	50.00	4.08e+07	1.58 y	23:50	-	1.10	
19	IS/RT	13C-PCB-15	100.00	7.45e+07	1.59 y	23:49	-	0.994	
20	Unk	PCB-19	50.00	2.16e+07	1.04 y	22:10	-	1.14	
21	Unk	PCB-30	50.00	3.00e+07	1.07 y	23:02	-	1.58	
22	Unk	PCB-18	50.00	2.15e+07	1.05 y	23:44	-	1.13	
23	Unk	PCB-17	50.00	2.27e+07	1.04 y	23:54	-	1.20	
24	Unk	PCB-27	50.00	2.94e+07	1.08 y	24:26	-	1.55	
25	Unk	PCB-24	50.00	3.10e+07	1.05 y	24:27	-	1.63	
26	Unk	PCB-16	50.00	2.44e+07	1.09 y	24:55	-	1.29	
27	Unk	PCB-32	50.00	2.75e+07	1.03 y	24:56	-	1.45	
28	IS/RT	13C-PCB-19	100.00	3.79e+07	1.07 y	22:10	-	0.505	
29	RS	13C-PCB-9	100.00	7.50e+07	1.61 y	19:57	7.50e+05	-	
30	Unk	PCB-34	50.00	3.21e+07	1.04 y	25:41	-	0.923	
31	Unk	PCB-23	50.00	3.62e+07	1.05 y	25:46	-	1.04	
32	Unk	PCB-29	50.00	3.58e+07	1.05 y	26:02	-	1.03	
33	Unk	PCB-26	50.00	3.42e+07	1.05 y	26:13	-	0.985	
34	Unk	PCB-25	50.00	4.24e+07	1.06 y	26:22	-	1.22	
35	Unk	PCB-31	50.00	3.56e+07	1.04 y	26:42	-	1.02	
36	Unk	PCB-28	50.00	3.96e+07	1.05 y	26:48	-	1.14	
37	Unk	PCB-20	150.00	1.11e+08	1.06 y	27:23	-	1.06	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	1.11e+08	1.06 y	27:23	-	1.06	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	1.11e+08	1.06 y	27:23	-	1.06	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	3.79e+07	1.05 y	27:48	-	1.09	
41	Unk	PCB-36	50.00	3.46e+07	1.05 y	28:24	-	0.995	
42	Unk	PCB-39	50.00	3.59e+07	1.06 y	28:51	-	1.03	
43	Unk	PCB-38	50.00	3.65e+07	1.04 y	29:35	-	1.05	
44	Unk	PCB-35	50.00	3.39e+07	1.05 y	30:04	-	0.974	
45	Unk	PCB-37	50.00	4.04e+07	1.04 y	30:30	-	1.16	
46	IS	13C-PCB-37	100.00	6.95e+07	1.07 y	30:28	-	1.50	

47	Unk	PCB-54	100.00	5.61e+07	0.79 y	25:43	-	1.12	
48	Unk	PCB-50	100.00	4.16e+07	0.78 y	26:50	-	0.829	
49	Unk	PCB-53	100.00	4.32e+07	0.79 y	27:26	-	0.862	
50	Unk	PCB-51	100.00	4.45e+07	0.79 y	27:45	-	0.887	
51	Unk	PCB-45	100.00	3.79e+07	0.78 y	28:11	-	0.756	
52	Unk	PCB-46	100.00	3.70e+07	0.79 y	28:37	-	0.738	
53	Unk	PCB-52	200.00	1.05e+08	0.78 y	29:05	-	1.05	Co-elute PCB 69
54	Unk	PCB-69	200.00	1.05e+08	0.78 y	29:05	-	1.05	Co-elute PCB 52
55	Unk	PCB-73	100.00	5.75e+07	0.80 y	29:11	-	1.15	
56	Unk	PCB-43	200.00	8.48e+07	0.79 y	29:21	-	0.846	Co-elute PCB 49
57	Unk	PCB-49	200.00	8.48e+07	0.79 y	29:21	-	0.846	Co-elute PCB 43
58	Unk	PCB-47	100.00	5.82e+07	0.78 y	29:33	-	1.16	
59	Unk	PCB-48	200.00	1.04e+08	0.79 y	29:39	-	1.04	Co-elute PCB 75
60	Unk	PCB-75	200.00	1.04e+08	0.79 y	29:39	-	1.04	Co-elute PCB 48
61	Unk	PCB-65	100.00	5.46e+07	0.79 y	29:56	-	1.09	
62	Unk	PCB-62	100.00	5.44e+07	0.78 y	30:01	-	1.09	
63	Unk	PCB-44	100.00	4.06e+07	0.78 y	30:18	-	0.810	
64	Unk	PCB-42	200.00	1.08e+08	0.79 y	30:31	-	1.08	Co-elute PCB 59
65	Unk	PCB-59	200.00	1.08e+08	0.79 y	30:31	-	1.08	Co-elute PCB 42
66	Unk	PCB-72	400.00	2.29e+08	0.79 y	31:05	-	1.14	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	2.29e+08	0.79 y	31:05	-	1.14	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	2.29e+08	0.79 y	31:05	-	1.14	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	2.29e+08	0.79 y	31:05	-	1.14	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	6.24e+07	0.79 y	31:20	-	1.24	
71	Unk	PCB-40	100.00	3.48e+07	0.78 y	31:30	-	0.695	
72	Unk	PCB-57	100.00	5.61e+07	0.80 y	31:52	-	1.12	
73	Unk	PCB-67	100.00	5.91e+07	0.77 y	32:10	-	1.18	
74	Unk	PCB-58	100.00	5.67e+07	0.79 y	32:16	-	1.13	
75	Unk	PCB-63	100.00	5.87e+07	0.79 y	32:26	-	1.17	
76	Unk	PCB-74	100.00	6.38e+07	0.78 y	32:42	-	1.27	
77	Unk	PCB-61	200.00	1.23e+08	0.78 y	32:54	-	1.23	Co-elute PCB 70
78	Unk	PCB-70	200.00	1.23e+08	0.78 y	32:54	-	1.23	Co-elute PCB 61
79	Unk	PCB-76	200.00	1.24e+08	0.79 y	33:05	-	1.24	Co-elute PCB 66
80	Unk	PCB-66	200.00	1.24e+08	0.79 y	33:05	-	1.24	Co-elute PCB 76
81	Unk	PCB-80	100.00	6.76e+07	0.78 y	33:19	-	1.35	
82	Unk	PCB-55	100.00	6.21e+07	0.80 y	33:35	-	1.24	
83	IS/RT	13C-PCB-54	100.00	5.01e+07	0.81 y	25:41	-	1.08	
84	Unk	PCB-104	100.00	3.56e+07	1.64 y	30:09	-	1.32	
85	Unk	PCB-96	100.00	3.21e+07	1.63 y	31:20	-	1.19	
86	Unk	PCB-103	100.00	2.77e+07	1.62 y	31:52	-	1.02	
87	Unk	PCB-100	100.00	2.81e+07	1.63 y	32:12	-	1.04	
88	Unk	PCB-94	100.00	2.40e+07	1.62 y	32:39	-	0.890	
89	Unk	PCB-98	200.00	5.65e+07	1.64 y	33:05	-	1.05	Co-elute PCB 102
90	Unk	PCB-102	200.00	5.65e+07	1.64 y	33:05	-	1.05	Co-elute PCB 98
91	Unk	PCB-95	100.00	2.73e+07	1.52 y	33:08	-	1.01	
92	Unk	PCB-93	100.00	2.44e+07	1.66 y	33:14	-	0.905	
93	Unk	PCB-88	200.00	5.37e+07	1.63 y	33:32	-	0.995	Co-elute PCB 91
94	Unk	PCB-91	200.00	5.37e+07	1.63 y	33:32	-	0.995	Co-elute PCB 88
95	Unk	PCB-121	100.00	3.28e+07	1.63 y	33:37	-	1.22	
96	IS	13C-PCB-104	100.00	2.70e+07	1.60 y	30:08	-	0.583	
97	C/Up	13C-PCB-28	100.00	7.40e+07	1.08 y	26:47	-	1.60	
98	RS	13C-PCB-52	100.00	4.63e+07	0.79 y	29:02	4.63e+05	-	
99	Unk	PCB-56	200.00	1.30e+08	0.80 y	34:04	-	1.11	Co-elute PCB 60
100	Unk	PCB-60	200.00	1.30e+08	0.80 y	34:04	-	1.11	Co-elute PCB 56

101	Unk	PCB-79	100.00	6.40e+07	0.80 y	35:06	-	1.10	
102	Unk	PCB-78	100.00	6.23e+07	0.80 y	35:45	-	1.07	
103	Unk	PCB-81	100.00	6.44e+07	0.81 y	36:16	-	1.12	
104	IS	13C-PCB-81	100.00	5.75e+07	0.79 y	36:15	-	1.39	
105	Unk	PCB-77	100.00	6.35e+07	0.80 y	36:50	-	1.07	
106	IS/RT	13C-PCB-77	100.00	5.90e+07	0.79 y	36:49	-	1.43	
107	Unk	PCB-155	100.00	3.77e+07	1.31 y	34:19	-	1.23	
108	Unk	PCB-150	100.00	3.40e+07	1.28 y	35:30	-	1.11	
109	Unk	PCB-152	100.00	3.27e+07	1.29 y	35:57	-	1.06	
110	Unk	PCB-145	100.00	3.33e+07	1.30 y	36:22	-	1.09	
111	Unk	PCB-136	100.00	3.12e+07	1.27 y	36:41	-	1.01	
112	Unk	PCB-148	100.00	2.63e+07	1.31 y	36:47	-	0.855	
113	Unk	PCB-154	100.00	3.05e+07	1.27 y	37:15	-	0.992	
114	IS	13C-PCB-155	100.00	3.07e+07	1.31 y	34:17	-	0.742	
115	C/Up	13C-PCB-111	100.00	4.86e+07	1.61 y	36:23	-	1.17	
116	RS	13C-PCB-101	100.00	4.14e+07	1.63 y	34:45	4.14e+05	-	
117	Unk	PCB-84	200.00	7.03e+07	1.60 y	34:23	-	0.662	Co-elute PCB 92
118	Unk	PCB-92	200.00	7.03e+07	1.60 y	34:23	-	0.662	Co-elute PCB 84
119	Unk	PCB-89	100.00	3.51e+07	1.60 y	34:35	-	0.660	
120	Unk	PCB-90	200.00	7.98e+07	1.59 y	34:45	-	0.751	Co-elute PCB 101
121	Unk	PCB-101	200.00	7.98e+07	1.59 y	34:45	-	0.751	Co-elute PCB 90
122	Unk	PCB-113	100.00	4.34e+07	1.57 y	34:59	-	0.817	
123	Unk	PCB-99	100.00	4.63e+07	1.61 y	35:05	-	0.871	
124	Unk	PCB-119	100.00	5.07e+07	1.57 y	35:30	-	0.954	
125	Unk	PCB-83	200.00	8.06e+07	1.58 y	35:39	-	0.758	Co-elute PCB 112
126	Unk	PCB-112	200.00	8.06e+07	1.58 y	35:39	-	0.758	Co-elute PCB 83
127	Unk	PCB-109	100.00	4.93e+07	1.58 y	35:49	-	0.927	
128	Unk	PCB-97	100.00	4.46e+07	1.57 y	35:59	-	0.840	
129	Unk	PCB-86	100.00	3.89e+07	1.63 y	36:08	-	0.733	
130	Unk	PCB-125	300.00	1.34e+08	1.58 y	36:16	-	0.844	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	1.34e+08	1.58 y	36:16	-	0.844	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	1.34e+08	1.58 y	36:16	-	0.844	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	1.13e+08	1.58 y	36:25	-	1.06	Co-elute PCB 115
134	Unk	PCB-115	200.00	1.13e+08	1.58 y	36:25	-	1.06	Co-elute PCB 111
135	Unk	PCB-85	200.00	8.84e+07	1.59 y	36:32	-	0.832	Co-elute PCB 116
136	Unk	PCB-116	200.00	8.84e+07	1.59 y	36:32	-	0.832	Co-elute PCB 85
137	Unk	PCB-120	100.00	5.29e+07	1.58 y	36:46	-	0.996	
138	Unk	PCB-110	100.00	5.31e+07	1.61 y	36:52	-	0.999	
139	Unk	PCB-82	100.00	3.03e+07	1.59 y	37:29	-	0.570	
140	Unk	PCB-124	100.00	5.96e+07	1.56 y	38:09	-	1.12	
141	Unk	PCB-108	200.00	1.12e+08	1.60 y	38:18	-	1.05	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.12e+08	1.60 y	38:18	-	1.05	Co-elute PCB 108
143	Unk	PCB-123	100.00	6.57e+07	1.59 y	38:28	-	1.30	
144	IS	13C-PCB-123	100.00	5.05e+07	1.58 y	38:26	-	1.23	
145	Unk	PCB-118	200.00	1.15e+08	1.58 y	38:39	-	1.01	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.15e+08	1.58 y	38:39	-	1.01	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	5.68e+07	1.61 y	38:36	-	1.38	
148	Unk	PCB-114	100.00	5.81e+07	1.72 y	39:14	-	1.11	
149	IS	13C-PCB-114	100.00	5.23e+07	1.60 y	39:14	-	1.27	
150	Unk	PCB-122	100.00	5.97e+07	1.49 y	39:20	-	1.12	
151	Unk	PCB-105	100.00	5.80e+07	1.58 y	40:03	-	1.10	
152	IS	13C-PCB-105	100.00	5.29e+07	1.59 y	40:01	-	1.29	
153	Unk	PCB-127	100.00	5.41e+07	1.59 y	40:23	-	1.02	
154	Unk	PCB-126	100.00	5.78e+07	1.59 y	42:11	-	1.13	
155	IS	13C-PCB-126	100.00	5.13e+07	1.59 y	42:10	-	1.25	

156	Unk	PCB-151	100.00	3.76e+07	1.29 y	37:51	-	0.795	
157	Unk	PCB-135	100.00	3.93e+07	1.26 y	38:05	-	0.832	
158	Unk	PCB-144	100.00	3.80e+07	1.28 y	38:11	-	0.804	
159	Unk	PCB-147	100.00	4.16e+07	1.25 y	38:18	-	0.881	
160	Unk	PCB-139	200.00	8.33e+07	1.26 y	38:33	-	0.881	Co-elute PCB 149
161	Unk	PCB-149	200.00	8.33e+07	1.26 y	38:33	-	0.881	Co-elute PCB 139
162	Unk	PCB-140	100.00	4.08e+07	1.27 y	38:44	-	0.862	
163	Unk	PCB-143	200.00	7.59e+07	1.27 y	39:07	-	0.803	Co-elute PCB 134
164	Unk	PCB-134	200.00	7.59e+07	1.27 y	39:07	-	0.803	Co-elute PCB 143
165	Unk	PCB-131	200.00	7.77e+07	1.27 y	39:25	-	0.821	Co-elute PCB 133
166	Unk	PCB-133	200.00	7.77e+07	1.27 y	39:25	-	0.821	Co-elute PCB 131
167	Unk	PCB-142	100.00	3.44e+07	1.26 y	39:35	-	0.729	
168	Unk	PCB-165	200.00	9.25e+07	1.26 y	39:47	-	0.979	Co-elute PCB 146
169	Unk	PCB-146	200.00	9.25e+07	1.26 y	39:47	-	0.979	Co-elute PCB 165
170	Unk	PCB-161	200.00	8.42e+07	1.26 y	39:60	-	0.890	Co-elute PCB 132
171	Unk	PCB-132	200.00	8.42e+07	1.26 y	39:60	-	0.890	Co-elute PCB 161
172	Unk	PCB-153	100.00	4.45e+07	1.26 y	40:10	-	0.941	
173	Unk	PCB-168	100.00	5.04e+07	1.26 y	40:23	-	1.07	
174	Unk	PCB-141	100.00	3.92e+07	1.26 y	40:52	-	0.830	
175	Unk	PCB-137	100.00	3.75e+07	1.25 y	41:14	-	0.793	
176	Unk	PCB-130	100.00	3.47e+07	1.28 y	41:20	-	0.735	
177	Unk	PCB-138	300.00	1.53e+08	1.26 y	41:42	-	1.08	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	1.53e+08	1.26 y	41:42	-	1.08	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	1.53e+08	1.26 y	41:42	-	1.08	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	1.03e+08	1.26 y	41:55	-	1.09	Co-elute PCB 160
181	Unk	PCB-160	200.00	1.03e+08	1.26 y	41:55	-	1.09	Co-elute PCB 158
182	Unk	PCB-129	100.00	3.25e+07	1.27 y	42:08	-	0.687	
183	Unk	PCB-166	100.00	4.82e+07	1.26 y	42:36	-	1.02	
184	Unk	PCB-159	100.00	5.13e+07	1.24 y	42:54	-	1.08	
185	Unk	PCB-128	200.00	8.64e+07	1.26 y	43:09	-	0.914	Co-elute PCB 162
186	Unk	PCB-162	200.00	8.64e+07	1.26 y	43:09	-	0.914	Co-elute PCB 128
187	Unk	PCB-167	100.00	4.82e+07	1.27 y	43:32	-	1.01	
188	IS	13C-PCB-167	100.00	4.77e+07	1.27 y	43:30	-	1.16	
189	Unk	PCB-156	100.00	4.76e+07	1.26 y	44:46	-	1.02	
190	IS	13C-PCB-156	100.00	4.65e+07	1.28 y	44:45	-	1.13	
191	Unk	PCB-157	100.00	5.16e+07	1.25 y	45:01	-	1.10	
192	IS	13C-PCB-157	100.00	4.71e+07	1.28 y	44:59	-	1.15	
193	Unk	PCB-169	100.00	4.91e+07	1.27 y	46:53	-	1.03	
194	IS	13C-PCB-169	100.00	4.77e+07	1.27 y	46:51	-	1.16	
195	Unk	PCB-188	100.00	4.22e+07	1.07 y	39:48	-	1.16	
196	IS	13C-PCB-188	100.00	3.65e+07	1.08 y	39:47	-	0.889	

197	Unk	PCB-184	100.00	4.23e+07	1.07 y	40:13	-	1.18	
198	Unk	PCB-179	100.00	3.94e+07	1.07 y	40:57	-	1.10	
199	Unk	PCB-176	100.00	3.83e+07	1.07 y	41:24	-	1.07	
200	Unk	PCB-186	100.00	4.02e+07	1.05 y	41:58	-	1.12	
201	Unk	PCB-178	100.00	2.82e+07	1.06 y	42:26	-	0.784	
202	Unk	PCB-175	100.00	2.97e+07	1.06 y	42:46	-	0.827	
203	Unk	PCB-187	200.00	6.67e+07	1.07 y	42:56	-	0.928	Co-elute PCB 182
204	Unk	PCB-182	200.00	6.67e+07	1.07 y	42:56	-	0.928	Co-elute PCB 187
205	Unk	PCB-183	100.00	3.16e+07	1.04 y	43:14	-	0.880	
206	Unk	PCB-185	100.00	3.08e+07	1.08 y	43:52	-	0.858	
207	Unk	PCB-174	100.00	2.94e+07	1.05 y	44:12	-	0.817	
208	Unk	PCB-181	100.00	3.18e+07	1.07 y	44:18	-	0.885	
209	Unk	PCB-177	100.00	2.78e+07	1.05 y	44:28	-	0.773	
210	Unk	PCB-171	100.00	2.85e+07	1.08 y	44:45	-	0.793	
211	Unk	PCB-173	100.00	2.75e+07	1.07 y	45:09	-	0.766	
212	Unk	PCB-172	100.00	2.73e+07	1.08 y	45:32	-	0.759	
213	Unk	PCB-192	100.00	3.87e+07	1.06 y	45:42	-	1.08	
214	Unk	PCB-180	100.00	3.75e+07	1.07 y	45:54	-	1.04	
215	Unk	PCB-193	100.00	3.99e+07	1.07 y	46:04	-	1.11	
216	Unk	PCB-191	100.00	3.82e+07	1.08 y	46:15	-	1.06	
217	Unk	PCB-170	100.00	2.68e+07	1.05 y	47:09	-	0.746	
218	Unk	PCB-190	100.00	3.82e+07	1.06 y	47:19	-	1.06	
219	Unk	PCB-189	100.00	4.03e+07	1.06 y	48:32	-	1.14	
220	IS	13C-PCB-189	100.00	3.54e+07	1.09 y	48:30	-	0.862	
221	Unk	PCB-202	150.00	3.24e+07	0.94 y	44:54	-	1.03	
222	Unk	PCB-201	150.00	3.21e+07	0.95 y	45:21	-	1.02	
223	Unk	PCB-204	150.00	3.08e+07	0.93 y	45:29	-	0.978	
224	Unk	PCB-197	150.00	3.43e+07	0.93 y	45:45	-	1.09	
225	Unk	PCB-200	150.00	3.14e+07	0.96 y	46:30	-	0.995	
226	Unk	PCB-198	150.00	2.27e+07	0.91 y	47:41	-	0.720	
227	Unk	PCB-199	150.00	2.72e+07	0.92 y	47:46	-	0.863	
228	Unk	PCB-203	300.00	5.49e+07	0.93 y	48:00	-	0.870	Co-elute PCB 196
229	Unk	PCB-196	300.00	5.49e+07	0.93 y	48:00	-	0.870	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	2.10e+07	0.92 y	44:53	-	0.512	
231	C/Up	13C-PCB-178	100.00	2.73e+07	1.10 y	42:25	-	0.666	
232	RS	13C-PCB-138	100.00	4.10e+07	1.26 y	41:39	4.10e+05	-	
233	Unk	PCB-195	150.00	5.15e+07	0.90 y	49:06	-	0.791	
234	Unk	PCB-194	150.00	5.35e+07	0.91 y	49:54	-	0.822	
235	Unk	PCB-205	150.00	7.13e+07	0.91 y	50:10	-	1.10	
236	IS	13C-PCB-205	100.00	4.34e+07	0.90 y	50:10	-	1.23	
237	Unk	PCB-208	150.00	6.63e+07	1.34 y	49:13	-	0.936	
238	IS	13C-PCB-208	100.00	4.73e+07	0.78 y	49:12	-	1.35	
239	Unk	PCB-207	150.00	5.68e+07	1.33 y	49:30	-	0.917	
240	Unk	PCB-206	150.00	5.09e+07	1.32 y	51:22	-	0.960	
241	IS	13C-PCB-206	100.00	3.53e+07	0.79 y	51:20	-	1.01	
242	Unk	PCB-209	150.00	6.83e+07	1.18 y	52:32	-	1.06	
243	IS	13C-PCB-209	100.00	4.28e+07	1.20 y	52:32	-	1.22	
244	RS	13C-PCB-194	100.00	3.51e+07	0.91 y	49:53	3.51e+05	-	

Analyst: J Date: 7/25/18

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/24/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 24JUL18Z Sam:1 Analysis Date: 24-JUL-18 12:05:09

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	48.4	37.5 - 62.5
PCB-3	M/M+2	3.14	2.66-3.60	y	51.2	37.5 - 62.5
PCB-4	M/M+2	1.54	1.33-1.79	y	46.6	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	49.0	37.5 - 62.5
PCB-19	M/M+2	1.05	0.88-1.20	y	50.5	37.5 - 62.5
PCB-37	M/M+2	1.11	0.88-1.20	y	46.3	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	50.6	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	50.8	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	51.3	37.5 - 62.5
PCB-104	M+2/M+4	1.61	1.32-1.78	y	47.3	37.5 - 62.5
PCB-105	M+2/M+4	1.57	1.32-1.78	y	48.0	37.5 - 62.5
PCB-114	M+2/M+4	1.63	1.32-1.78	y	48.8	37.5 - 62.5
PCB-118	M+2/M+4	1.61	1.32-1.78	y	56.3	37.5 - 62.5
PCB-123	M+2/M+4	1.57	1.32-1.78	y	40.9	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	48.0	37.5 - 62.5
PCB-155	M+2/M+4	1.31	1.05-1.43	y	51.0	37.5 - 62.5
PCB-156	M+2/M+4	1.23	1.05-1.43	y	52.1	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	48.2	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	52.2	37.5 - 62.5
PCB-169	M+2/M+4	1.28	1.05-1.43	y	49.7	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	49.4	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	52.1	37.5 - 62.5
PCB-202	M+2/M+4	0.94	0.76-1.02	y	55.1	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	51.2	37.5 - 62.5
PCB-206	M+4/M+6	1.33	1.13-1.53	y	48.2	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	49.4	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	54.4	37.5 - 62.5

Analyst: _____ Date: 7/24/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/24/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 24JUL18Z Sam:1 Analysis Date: 24-JUL-18 12:05:09

	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	3.11	2.66-3.60	y	112	50.0 - 145
13C-PCB-3	M/M+2	3.11	2.66-3.60	y	105	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	108	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	97.1	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	113	50.0 - 145
13C-PCB-37	M/M+2	1.08	0.88-1.20	y	91.4	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	111	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	88.5	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	87.8	50.0 - 145
13C-PCB-104	M+2/M+4	1.62	1.32-1.78	y	121	50.0 - 145
13C-PCB-105	M+2/M+4	1.62	1.32-1.78	y	96.0	50.0 - 145
13C-PCB-114	M+2/M+4	1.60	1.32-1.78	y	96.0	50.0 - 145
13C-PCB-118	M+2/M+4	1.65	1.32-1.78	y	96.7	50.0 - 145
13C-PCB-123	M+2/M+4	1.60	1.32-1.78	y	94.7	50.0 - 145
13C-PCB-126	M+2/M+4	1.63	1.32-1.78	y	89.5	50.0 - 145
13C-PCB-155	M+2/M+4	1.34	1.05-1.43	y	110	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	99.3	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	105	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	103	50.0 - 145
13C-PCB-169	M+2/M+4	1.28	1.05-1.43	y	97.7	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	117	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	99.4	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	117	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	108	50.0 - 145
13C-PCB-206	M+2/M+4	0.78	0.65-0.89	y	118	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	122	50.0 - 145
13C-PCB-209	M+4/M+6	1.22	0.99-1.33	y	110	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.08	0.88-1.20	y	91.8	65.0 - 135
13C-PCB-111	M+2/M+4	1.58	1.32-1.78	y	103	75.0 - 125
13C-PCB-178	M+2/M+4	1.10	0.89-1.21	y	106	75.0 - 125

Analyst: [signature] Date: 7/24/18

FAL ID: ST072418Z1 Filename: 24JUL18Z Sam:1 Acquired: 24-JUL-18 12:05:09 ICal: DAILY209FAL4-7-24-18
Client ID: 1668 CS3 170805A ConCal: ST072418Z1 EndCal: ST072418Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	5.60e+07	3.14 y	14:35	1.06	48.4		2.50	-	-	*	
13C-PCB-1	1.09e+08	3.11 y	14:34	0.97	112		2.50				112
PCB-3	5.56e+07	3.14 y	17:02	1.05	51.2		2.50	-	-	*	
13C-PCB-3	1.04e+08	3.11 y	17:01	0.99	105		2.50				105
PCB-4	3.65e+07	1.54 y	18:16	1.16	46.6		2.50	-	-	*	
13C-PCB-4	6.73e+07	1.60 y	18:15	0.62	108		2.50				108
PCB-15	5.20e+07	1.56 y	23:50	1.10	49.0		2.50	-	-	*	
13C-PCB-15	9.68e+07	1.60 y	23:49	0.99	97.1		2.50				97.1
PCB-19	3.30e+07	1.05 y	22:10	1.14	50.5		2.50	-	-	*	
13C-PCB-19	5.73e+07	1.09 y	22:09	0.51	113		2.50				113
13C-PCB-9	1.00e+08	1.60 y	19:57	-	134		2.50				
PCB-37	4.43e+07	1.11 y	30:30	1.16	46.3		2.50	-	-	*	
13C-PCB-37	8.23e+07	1.08 y	30:29	1.50	91.4		2.50				91.4
PCB-54	4.09e+07	0.78 y	25:43	1.12	50.6		2.50	-	-	*	
13C-PCB-54	7.21e+07	0.81 y	25:42	1.08	111		2.50				111
PCB-104	2.65e+07	1.61 y	30:10	1.32	47.3		2.50	-	-	*	
13C-PCB-104	4.25e+07	1.62 y	30:08	0.58	121		2.50				121
13C-PCB-28	8.79e+07	1.08 y	26:47	1.60	91.8		2.50				91.8
13C-PCB-52	5.99e+07	0.79 y	29:03	-	130		2.50				
PCB-81	3.64e+07	0.81 y	36:17	1.12	51.3		2.50	-	-	*	
13C-PCB-81	6.33e+07	0.79 y	36:15	1.39	87.8		2.50				87.8
PCB-77	3.58e+07	0.80 y	36:50	1.07	50.8		2.50	-	-	*	
13C-PCB-77	6.56e+07	0.79 y	36:49	1.43	88.5		2.50				88.5
PCB-155	2.66e+07	1.31 y	34:20	1.23	51.0		2.50	-	-	*	
13C-PCB-155	4.25e+07	1.34 y	34:18	0.74	110		2.50				110
13C-PCB-111	6.30e+07	1.58 y	36:25	1.17	103		2.50				103
13C-PCB-101	5.19e+07	1.60 y	34:45	-	125		2.50				
PCB-123	3.06e+07	1.57 y	38:28	1.30	40.9		2.50	-	-	*	
13C-PCB-123	5.76e+07	1.60 y	38:26	1.23	94.7		2.50				94.7
PCB-118	3.77e+07	1.61 y	38:39	1.01	56.3		2.50	-	-	*	
13C-PCB-118	6.62e+07	1.65 y	38:38	1.38	96.7		2.50				96.7
PCB-114	3.28e+07	1.63 y	39:16	1.11	48.8		2.50	-	-	*	
13C-PCB-114	6.05e+07	1.60 y	39:14	1.27	96.0		2.50				96.0
PCB-105	3.22e+07	1.57 y	40:05	1.10	48.0		2.50	-	-	*	
13C-PCB-105	6.12e+07	1.62 y	40:03	1.29	96.0		2.50				96.0
PCB-126	2.99e+07	1.58 y	42:13	1.13	48.0		2.50	-	-	*	
13C-PCB-126	5.54e+07	1.63 y	42:12	1.25	89.5		2.50				89.5
PCB-167	3.14e+07	1.25 y	43:34	1.01	52.2		2.50	-	-	*	
13C-PCB-167	5.94e+07	1.27 y	43:32	1.16	103		2.50				103
PCB-156	2.97e+07	1.23 y	44:48	1.02	52.1		2.50	-	-	*	
13C-PCB-156	5.57e+07	1.28 y	44:46	1.13	99.3		2.50				99.3
PCB-157	3.16e+07	1.26 y	45:03	1.10	48.2		2.50	-	-	*	
13C-PCB-157	5.98e+07	1.29 y	45:01	1.15	105		2.50				105
PCB-169	2.87e+07	1.28 y	46:55	1.03	49.7		2.50	-	-	*	
13C-PCB-169	5.62e+07	1.28 y	46:53	1.16	97.7		2.50				97.7
PCB-188	2.93e+07	1.06 y	39:50	1.16	49.4		2.50	-	-	*	
13C-PCB-188	5.13e+07	1.09 y	39:48	0.89	117		2.50				117
PCB-189	2.52e+07	1.06 y	48:34	1.14	52.1		2.50	-	-	*	
13C-PCB-189	4.24e+07	1.07 y	48:32	0.86	99.4		2.50				99.4
PCB-202	1.68e+07	0.94 y	44:56	1.03	55.1		2.50	-	-	*	
13C-PCB-202	2.97e+07	0.92 y	44:55	0.51	117		2.50				117
13C-PCB-178	3.49e+07	1.10 y	42:26	0.67	106		2.50				106
13C-PCB-138	4.95e+07	1.28 y	41:40	-	121		2.50				

FAL ID: ST072418Z1 Filename: 24JUL18Z Sam:1 Acquired: 24-JUL-18 12:05:09 ICal: DAILY209FAL4-7-24-18 2 of 2
Client ID: 1668 CS3 170805A ConCal: ST072418Z1 EndCal: ST072418Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	2.86e+07	0.91	y	50:11	1.10	51.2	2.50	-	-	*	
13C-PCB-205	5.10e+07	0.91	y	50:10	1.23	108	2.50				108
PCB-208	2.89e+07	1.35	y	49:14	0.94	49.4	2.50	-	-	*	
13C-PCB-208	6.24e+07	0.80	y	49:13	1.35	122	2.50				122
PCB-206	2.09e+07	1.33	y	51:23	0.96	48.2	2.50	-	-	*	
13C-PCB-206	4.52e+07	0.78	y	51:21	1.01	118	2.50				118
PCB-209	2.95e+07	1.18	y	52:33	1.06	54.4	2.50	-	-	*	
13C-PCB-209	5.11e+07	1.22	y	52:32	1.22	110	2.50				110
13C-PCB-194	3.82e+07	0.91	y	49:55	-	109	2.50				

Analyst: _____ Date: 7/24/18

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/24/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 24JUL18Z Sam:12 Analysis Date: 24-JUL-18 22:50:29

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.20	2.66-3.60	y	55.1	37.5 - 62.5
PCB-3	M/M+2	3.16	2.66-3.60	y	55.6	37.5 - 62.5
PCB-4	M/M+2	1.49	1.33-1.79	y	51.3	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	52.3	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	54.7	37.5 - 62.5
PCB-37	M/M+2	1.07	0.88-1.20	y	49.4	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	53.9	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	53.5	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	54.1	37.5 - 62.5
PCB-104	M+2/M+4	1.62	1.32-1.78	y	49.9	37.5 - 62.5
PCB-105	M+2/M+4	1.62	1.32-1.78	y	51.5	37.5 - 62.5
PCB-114	M+2/M+4	1.62	1.32-1.78	y	52.5	37.5 - 62.5
PCB-118	M+2/M+4	1.64	1.32-1.78	y	59.2	37.5 - 62.5
PCB-123	M+2/M+4	1.61	1.32-1.78	y	42.6	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	48.7	37.5 - 62.5
PCB-155	M+2/M+4	1.31	1.05-1.43	y	52.1	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	54.5	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	49.5	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	55.3	37.5 - 62.5
PCB-169	M+2/M+4	1.29	1.05-1.43	y	54.2	37.5 - 62.5
PCB-188	M+2/M+4	1.09	0.89-1.21	y	50.4	37.5 - 62.5
PCB-189	M+2/M+4	1.08	0.89-1.21	y	52.4	37.5 - 62.5
PCB-202	M+2/M+4	0.96	0.76-1.02	y	57.4	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	51.8	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	49.1	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	50.8	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	55.0	37.5 - 62.5

Analyst: [signature] Date: 7/25/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/24/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 24JUL18Z Sam:12 Analysis Date: 24-JUL-18 22:50:29

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.24	2.66-3.60	y	92.6	50.0 - 145
13C-PCB-3	M/M+2	3.25	2.66-3.60	y	93.2	50.0 - 145
13C-PCB-4	M/M+2	1.59	1.33-1.79	y	105	50.0 - 145
13C-PCB-15	M/M+2	1.61	1.33-1.79	y	103	50.0 - 145
13C-PCB-19	M/M+2	1.10	0.88-1.20	y	89.4	50.0 - 145
13C-PCB-37	M/M+2	1.08	0.88-1.20	y	116	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	112	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	113	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	113	50.0 - 145
13C-PCB-104	M+2/M+4	1.62	1.32-1.78	y	105	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	114	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	1.63	1.32-1.78	y	111	50.0 - 145
13C-PCB-123	M+2/M+4	1.61	1.32-1.78	y	116	50.0 - 145
13C-PCB-126	M+2/M+4	1.63	1.32-1.78	y	116	50.0 - 145
13C-PCB-155	M+2/M+4	1.32	1.05-1.43	y	102	50.0 - 145
13C-PCB-156	M+2/M+4	1.30	1.05-1.43	y	106	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	111	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	107	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	106	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	105	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	104	50.0 - 145
13C-PCB-202	M+2/M+4	0.94	0.76-1.02	y	95.7	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	0.78	0.65-0.89	y	105	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	99.4	50.0 - 145
13C-PCB-209	M+4/M+6	1.22	0.99-1.33	y	91.3	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	117	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	105	75.0 - 125
13C-PCB-178	M+2/M+4	1.09	0.89-1.21	y	92.8	75.0 - 125

Analyst: [signature] Date: 7/25/18

FAL ID: ST072418Z2 Filename: 24JUL18Z Sam:12 Acquired: 24-JUL-18 22:50:29 ICal: DAILY209FAL4-7-24-18
Client ID: 1668 CS3 170805A ConCal: ST072418Z1 EndCal: ST072418Z2
Results: 11704-7 GC Column: DB1MS Amount: 1.000

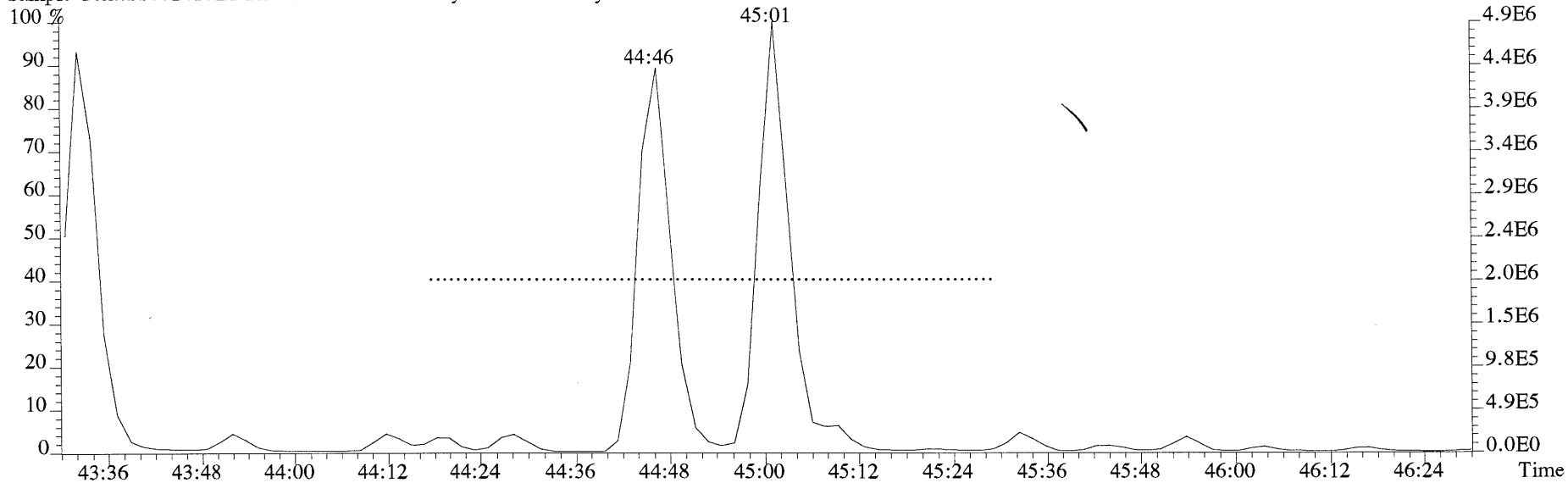
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.31e+07	3.20 y	14:34	1.06	55.1		2.50	-	-	*	
13C-PCB-1	1.08e+08	3.24 y	14:33	0.97	92.6		2.50				92.6
PCB-3	6.45e+07	3.16 y	17:01	1.05	55.6		2.50	-	-	*	
13C-PCB-3	1.11e+08	3.25 y	17:00	0.99	93.2		2.50				93.2
PCB-4	4.69e+07	1.49 y	18:15	1.16	51.3		2.50	-	-	*	
13C-PCB-4	7.87e+07	1.59 y	18:13	0.62	105		2.50				105
PCB-15	7.04e+07	1.57 y	23:48	1.10	52.3		2.50	-	-	*	
13C-PCB-15	1.23e+08	1.61 y	23:48	0.99	103		2.50				103
PCB-19	3.39e+07	1.06 y	22:08	1.14	54.7		2.50	-	-	*	
13C-PCB-19	5.44e+07	1.10 y	22:07	0.51	89.4		2.50				89.4
13C-PCB-9	1.20e+08	1.62 y	19:55	-	161		2.50				
PCB-37	5.90e+07	1.07 y	30:28	1.16	49.4		2.50	-	-	*	
13C-PCB-37	1.03e+08	1.08 y	30:27	1.50	116		2.50				116
PCB-54	4.31e+07	0.80 y	25:40	1.12	53.9		2.50	-	-	*	
13C-PCB-54	7.15e+07	0.81 y	25:39	1.08	112		2.50				112
PCB-104	2.39e+07	1.62 y	30:07	1.32	49.9		2.50	-	-	*	
13C-PCB-104	3.63e+07	1.62 y	30:06	0.58	105		2.50				105
13C-PCB-28	1.10e+08	1.04 y	26:45	1.60	117		2.50				117
13C-PCB-52	5.90e+07	0.80 y	29:01	-	128		2.50				
PCB-81	4.71e+07	0.81 y	36:15	1.12	54.1		2.50	-	-	*	
13C-PCB-81	7.79e+07	0.81 y	36:13	1.39	113		2.50				113
PCB-77	4.60e+07	0.80 y	36:49	1.07	53.5		2.50	-	-	*	
13C-PCB-77	8.00e+07	0.81 y	36:47	1.43	113		2.50				113
PCB-155	2.39e+07	1.31 y	34:17	1.23	52.1		2.50	-	-	*	
13C-PCB-155	3.74e+07	1.32 y	34:16	0.74	102		2.50				102
13C-PCB-111	6.12e+07	1.60 y	36:22	1.17	105		2.50				105
13C-PCB-101	4.95e+07	1.64 y	34:44	-	120		2.50				
PCB-123	3.94e+07	1.61 y	38:26	1.30	42.6		2.50	-	-	*	
13C-PCB-123	7.12e+07	1.61 y	38:24	1.23	116		2.50				116
PCB-118	4.57e+07	1.64 y	38:38	1.01	59.2		2.50	-	-	*	
13C-PCB-118	7.62e+07	1.63 y	38:36	1.38	111		2.50				111
PCB-114	4.27e+07	1.62 y	39:14	1.11	52.5		2.50	-	-	*	
13C-PCB-114	7.33e+07	1.61 y	39:12	1.27	116		2.50				116
PCB-105	4.10e+07	1.62 y	40:03	1.10	51.5		2.50	-	-	*	
13C-PCB-105	7.28e+07	1.61 y	40:01	1.29	114		2.50				114
PCB-126	3.95e+07	1.57 y	42:12	1.13	48.7		2.50	-	-	*	
13C-PCB-126	7.21e+07	1.63 y	42:10	1.25	116		2.50				116
PCB-167	3.47e+07	1.26 y	43:32	1.01	55.3		2.50	-	-	*	
13C-PCB-167	6.20e+07	1.27 y	43:31	1.16	107		2.50				107
PCB-156	3.34e+07	1.26 y	44:46	1.02	54.5		2.50	-	-	*	
13C-PCB-156	5.99e+07	1.30 y	44:45	1.13	106		2.50				106
PCB-157	3.43e+07	1.26 y	45:01	1.10	49.5		2.50	-	-	*	
13C-PCB-157	6.33e+07	1.29 y	44:59	1.15	111		2.50				111
PCB-169	3.40e+07	1.29 y	46:53	1.03	54.2		2.50	-	-	*	
13C-PCB-169	6.10e+07	1.27 y	46:51	1.16	106		2.50				106
PCB-188	2.70e+07	1.09 y	39:47	1.16	50.4		2.50	-	-	*	
13C-PCB-188	4.64e+07	1.09 y	39:45	0.89	105		2.50				105
PCB-189	2.66e+07	1.08 y	48:32	1.14	52.4		2.50	-	-	*	
13C-PCB-189	4.45e+07	1.08 y	48:30	0.86	104		2.50				104
PCB-202	1.44e+07	0.96 y	44:53	1.03	57.4		2.50	-	-	*	
13C-PCB-202	2.43e+07	0.94 y	44:53	0.51	95.7		2.50				95.7
13C-PCB-178	3.07e+07	1.09 y	42:25	0.67	92.8		2.50				92.8
13C-PCB-138	4.97e+07	1.29 y	41:39	-	121		2.50				

FAL ID: ST072418Z2 Filename: 24JUL18Z Sam:12 Acquired: 24-JUL-18 22:50:29 ICal: DAILY209FAL4-7-24-18 2 of 2
Client ID: 1668 CS3 170805A ConCal: ST072418Z1 EndCal: ST072418Z2
Results: 11704-7 GC Column: DB1MS Amount: 1.000

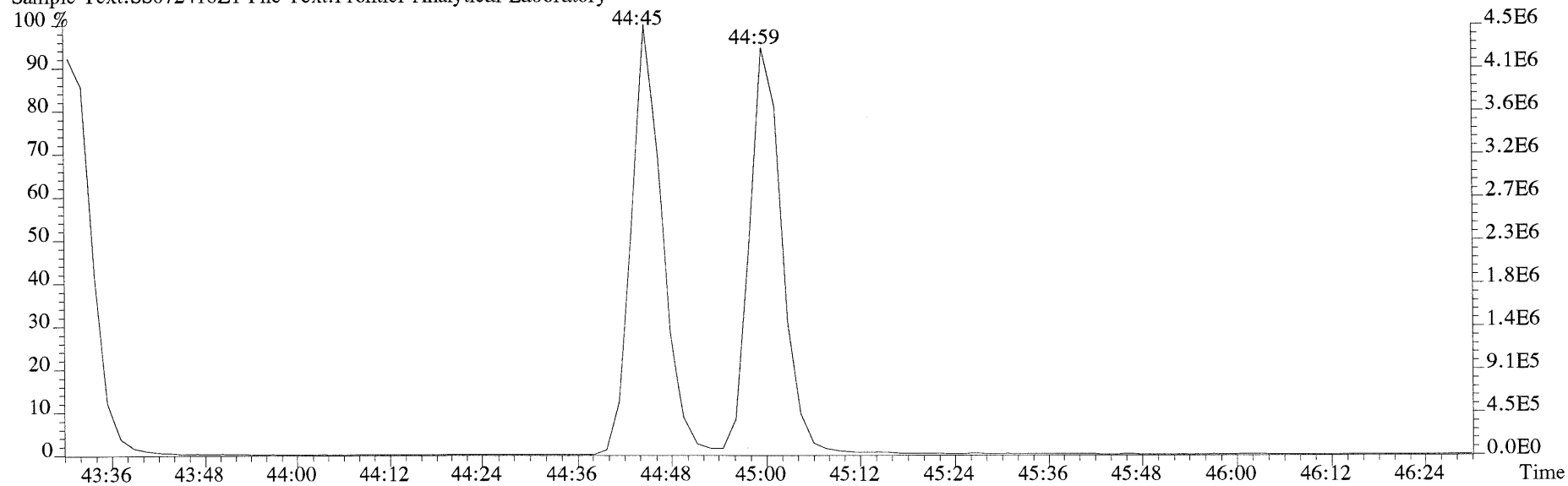
PCB-205	3.52e+07	0.90 y	50:10	1.10	51.8	2.50	-	-	*	
13C-PCB-205	6.21e+07	0.90 y	50:08	1.23	101	2.50				101
PCB-208	3.16e+07	1.35 y	49:12	0.94	50.8	2.50	-	-	*	
13C-PCB-208	6.66e+07	0.80 y	49:12	1.35	99.4	2.50				99.4
PCB-206	2.49e+07	1.35 y	51:22	0.96	49.1	2.50	-	-	*	
13C-PCB-206	5.28e+07	0.78 y	51:20	1.01	105	2.50				105
PCB-209	3.24e+07	1.19 y	52:31	1.06	55.0	2.50	-	-	*	
13C-PCB-209	5.55e+07	1.22 y	52:31	1.22	91.3	2.50				91.3
13C-PCB-194	4.98e+07	0.92 y	49:53	-	142	2.50				

Analyst: _____ Date: 7/25/18

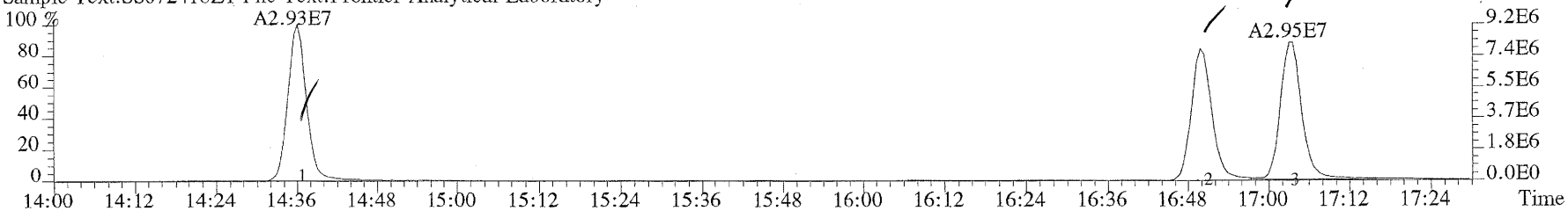
File:24JUL18Z #1-404 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



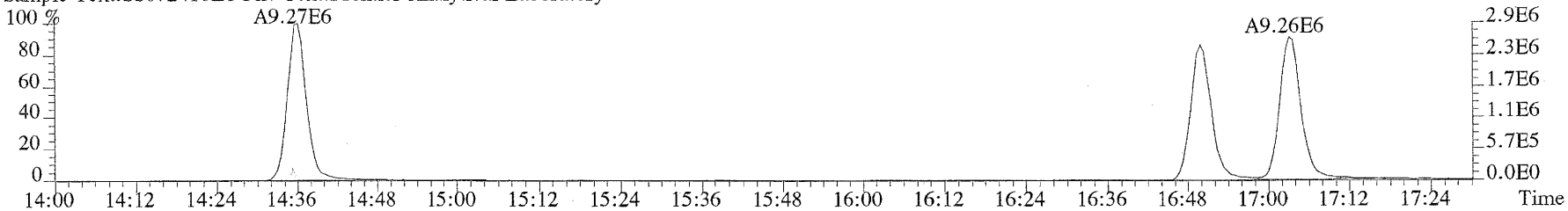
File:24JUL18Z #1-404 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



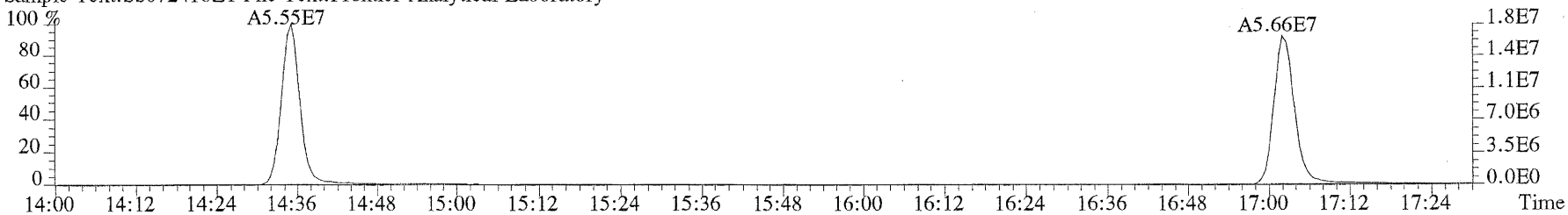
File:24JUL18Z #1-783 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



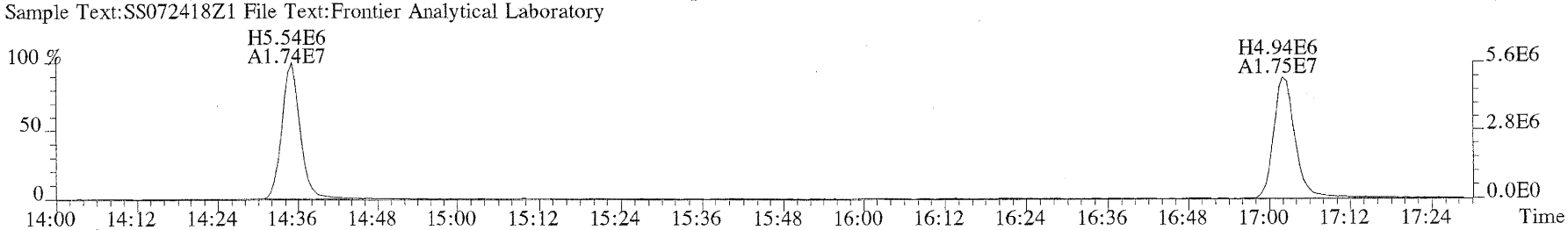
File:24JUL18Z #1-783 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



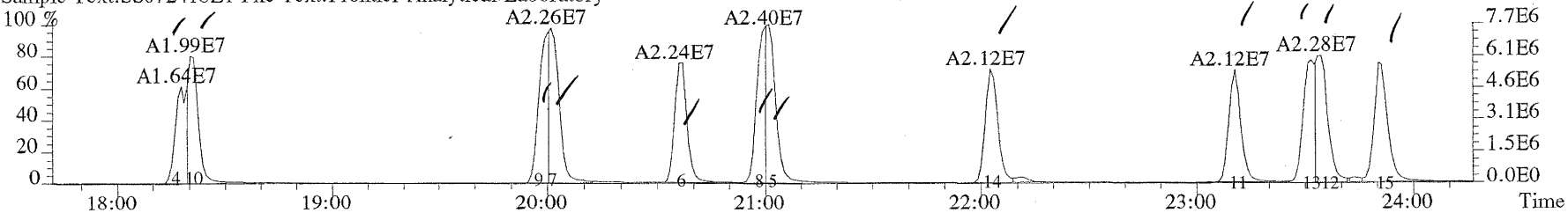
File:24JUL18Z #1-783 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



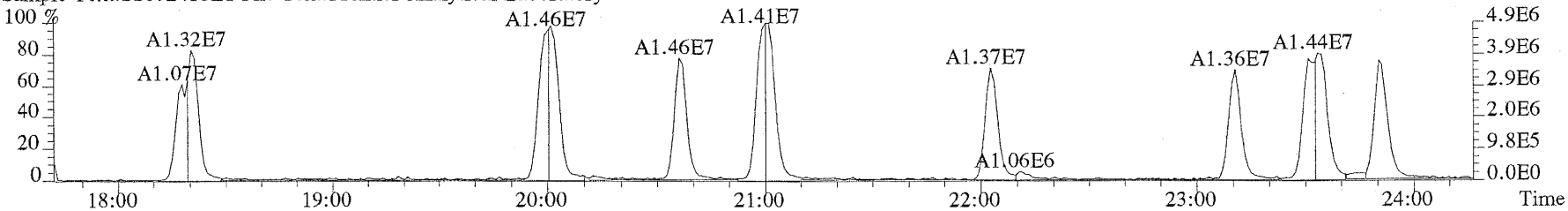
File:24JUL18Z #1-783 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



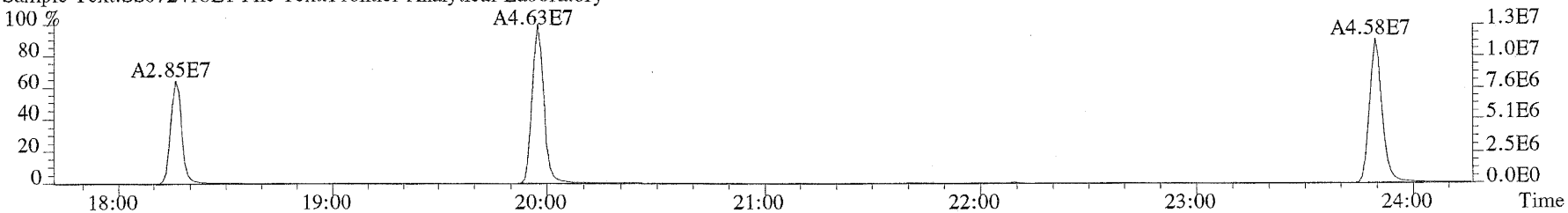
File:24JUL18Z #1-520 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



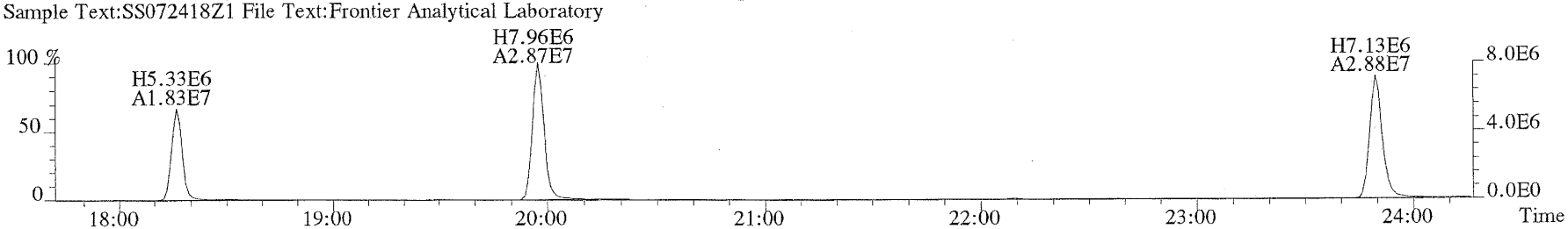
File:24JUL18Z #1-520 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



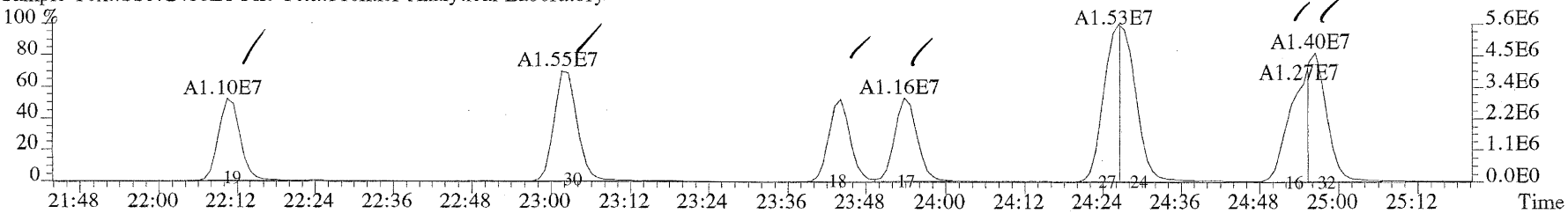
File:24JUL18Z #1-520 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



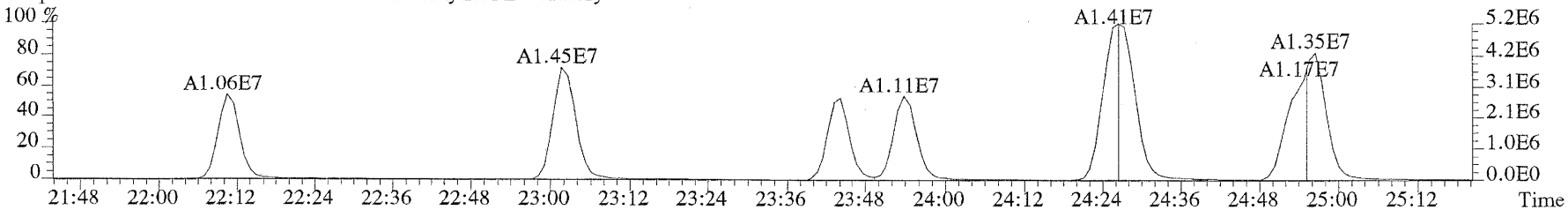
File:24JUL18Z #1-520 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



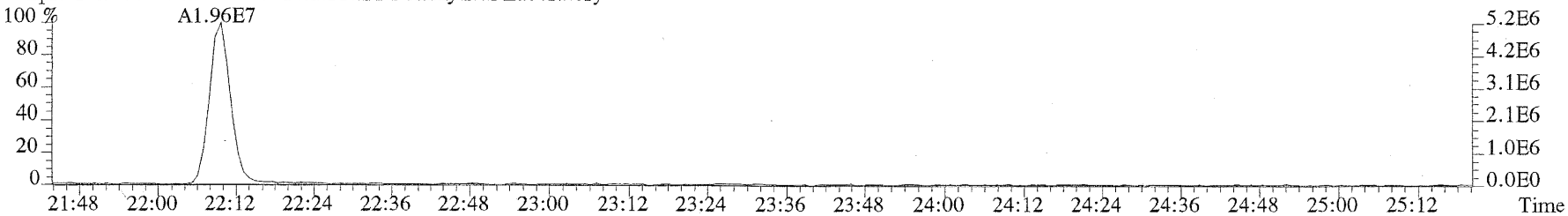
File:24JUL18Z #1-520 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



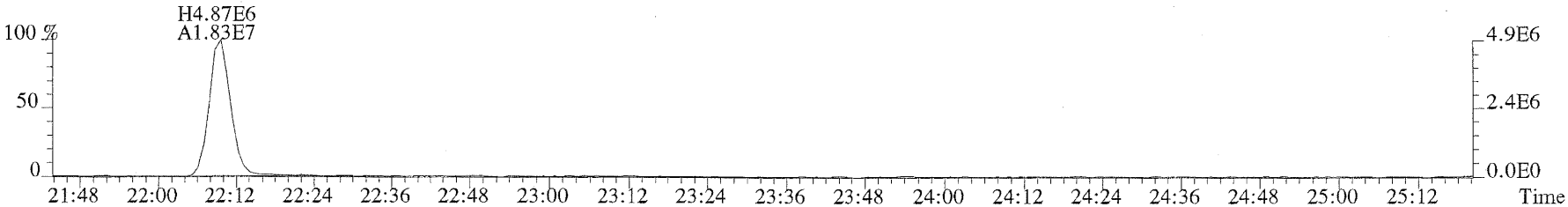
File:24JUL18Z #1-520 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



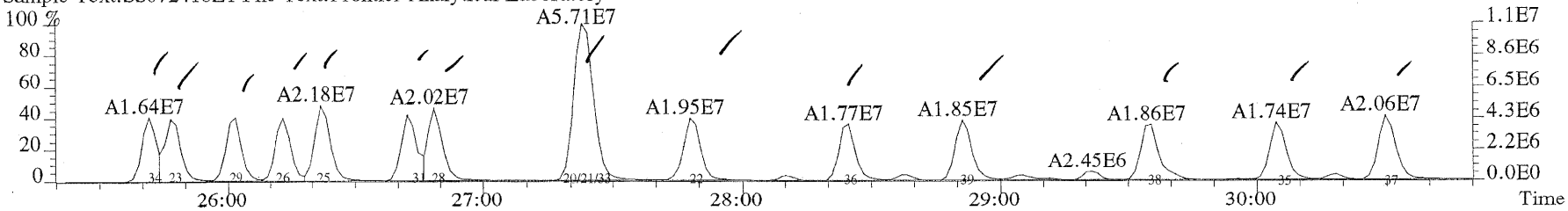
File:24JUL18Z #1-520 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



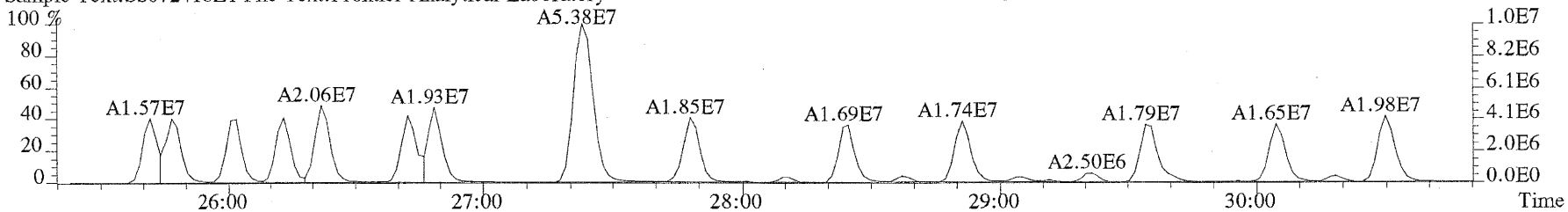
File:24JUL18Z #1-520 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



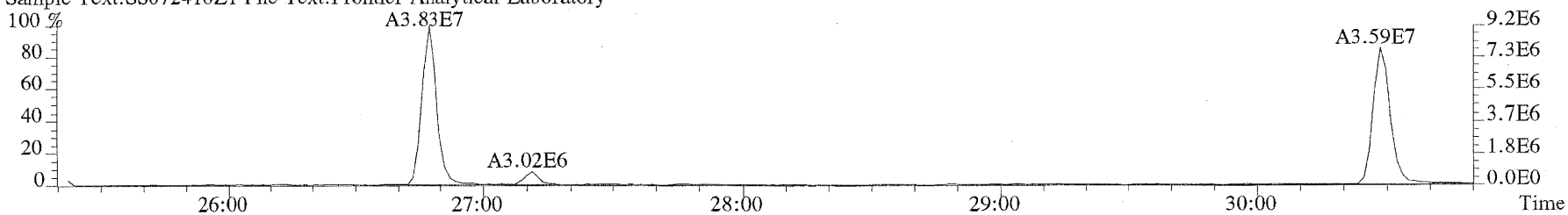
File:24JUL18Z #1-401 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



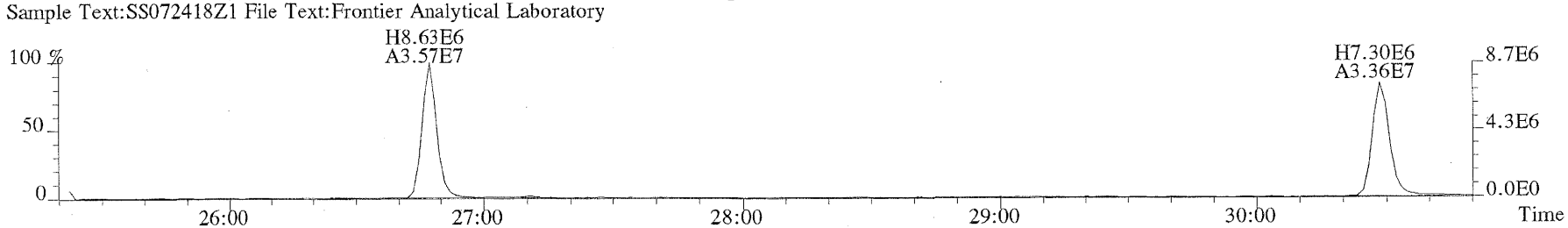
File:24JUL18Z #1-401 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



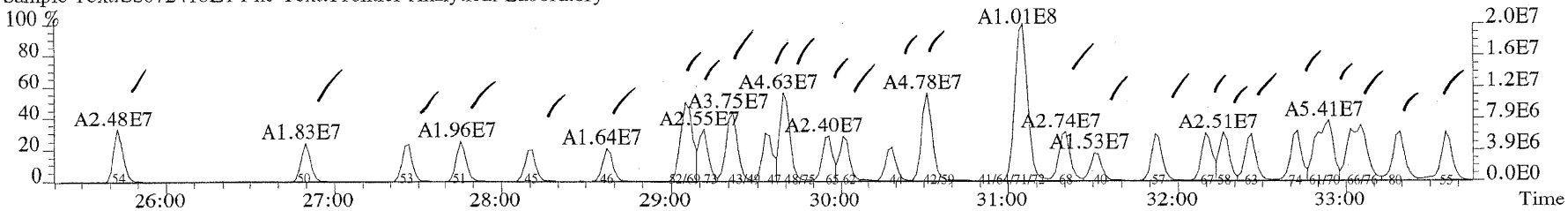
File:24JUL18Z #1-401 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



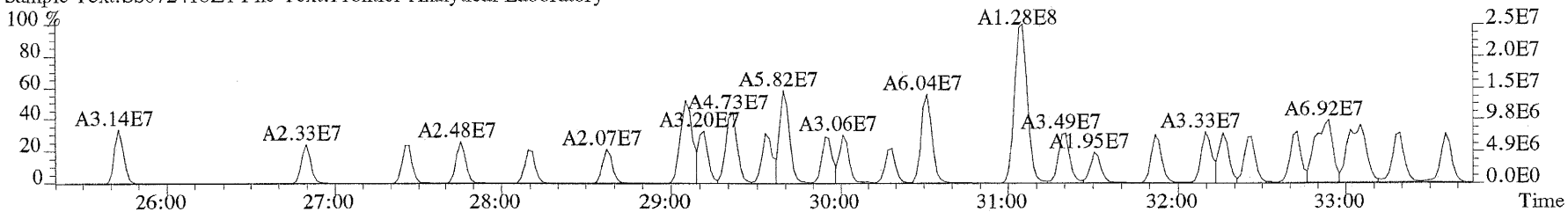
File:24JUL18Z #1-401 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



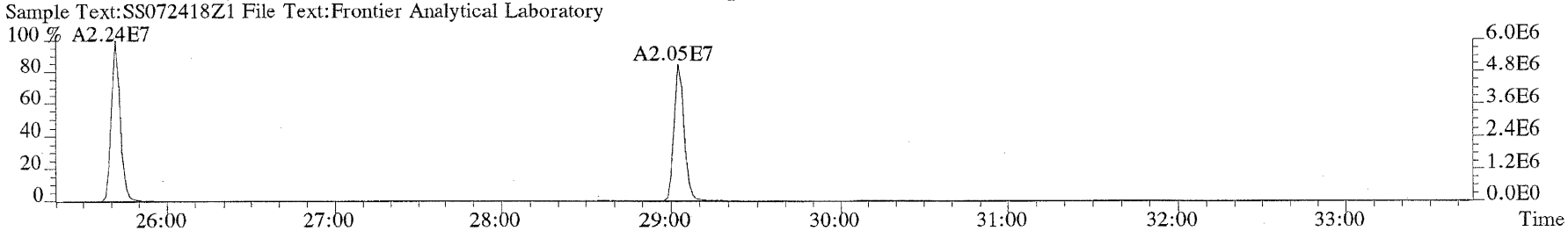
File:24JUL18Z #1-401 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



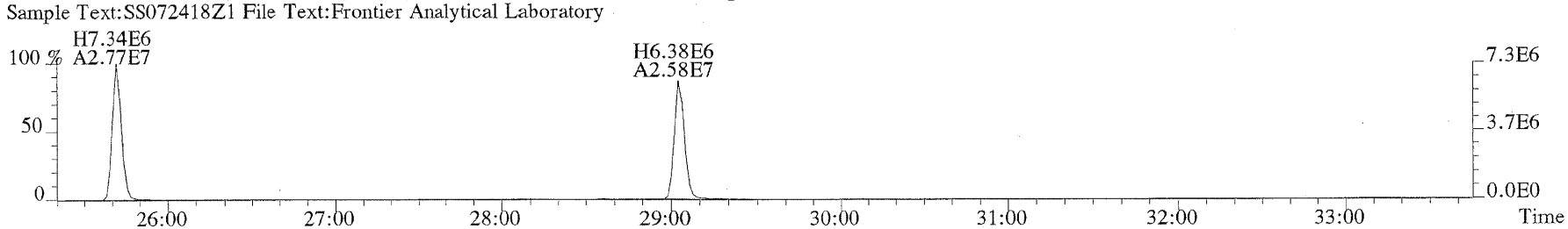
File:24JUL18Z #1-401 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



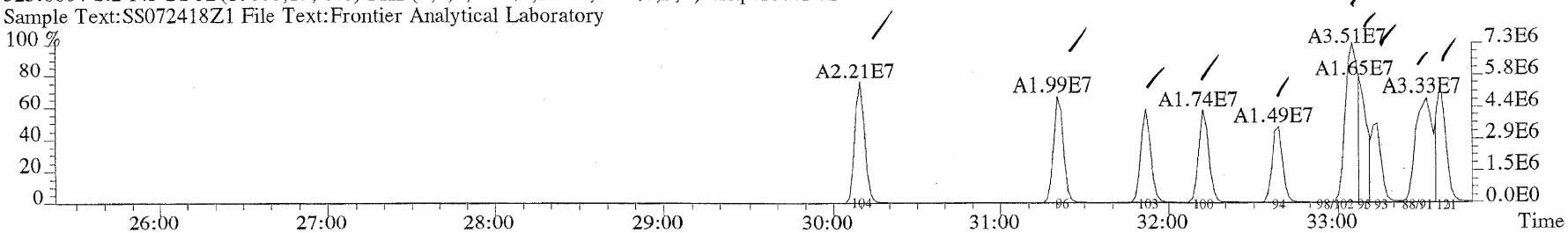
File:24JUL18Z #1-401 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



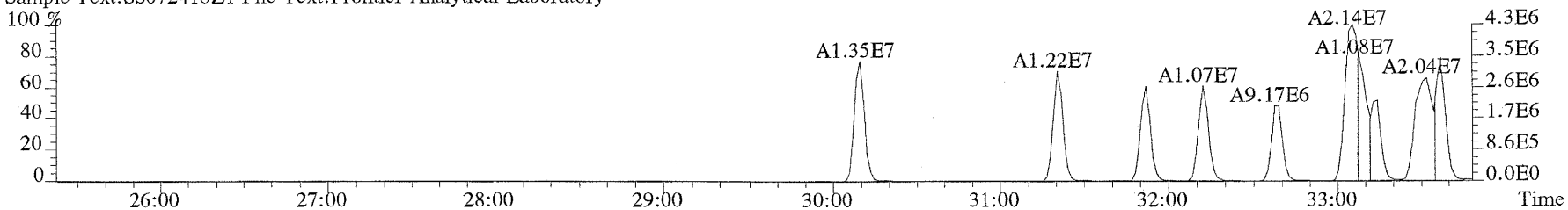
File:24JUL18Z #1-401 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



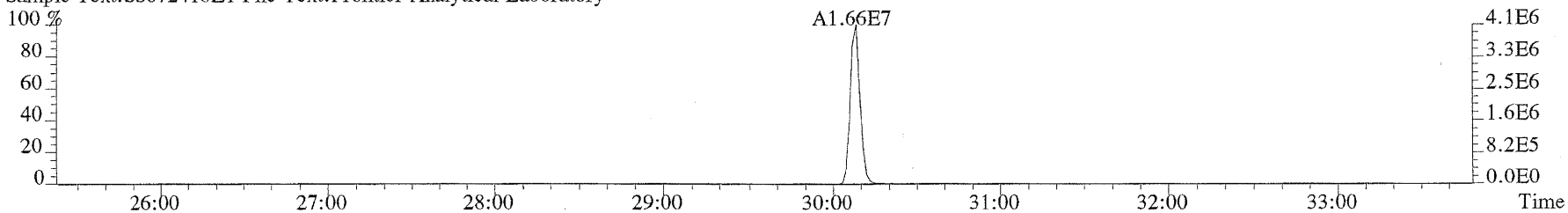
File:24JUL18Z #1-401 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-401 Acq:24-JUL-2018 13:03:29 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:SS072418Z1 File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-401 Acq:24-JUL-2018 13:03:29 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:SS072418Z1 File Text:Frontier Analytical Laboratory



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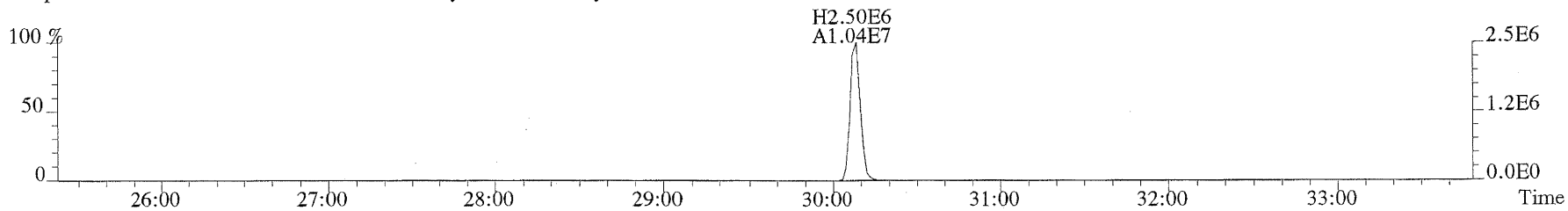
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



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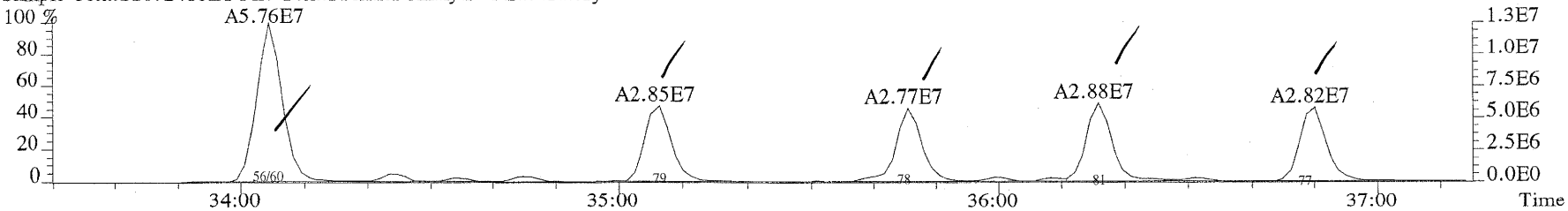
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



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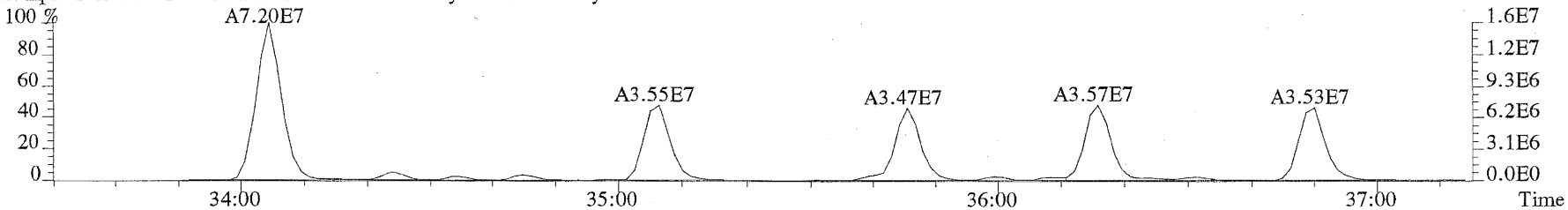
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



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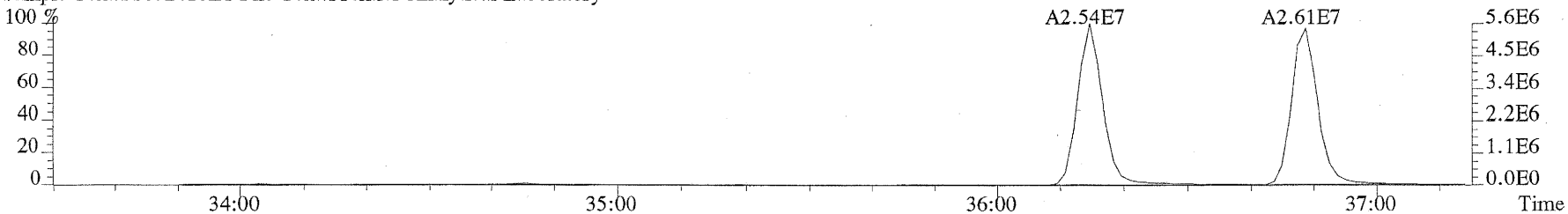
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



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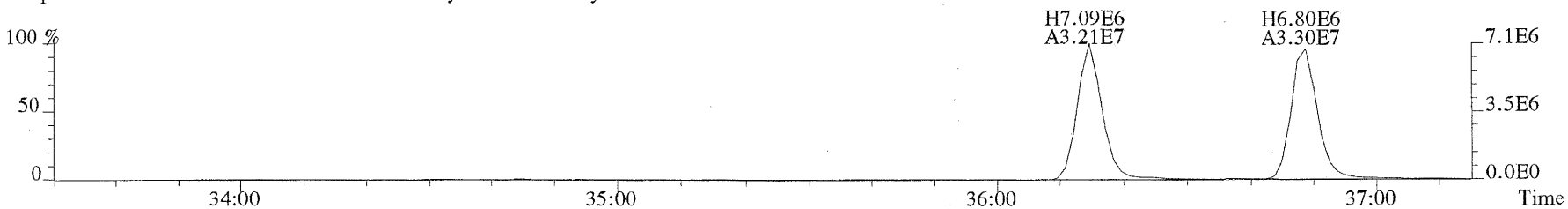
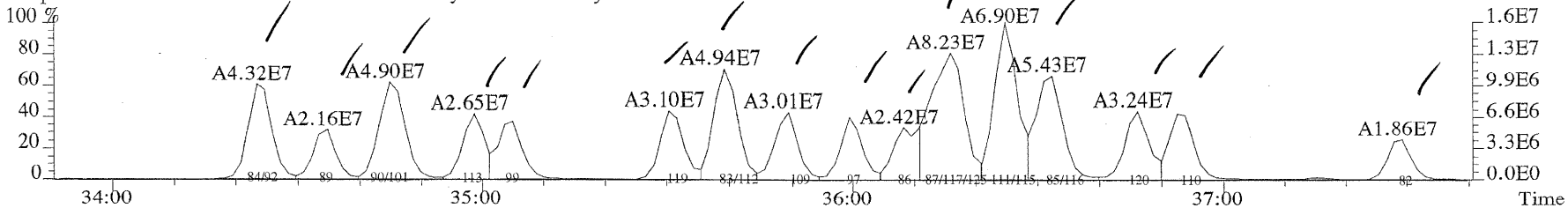
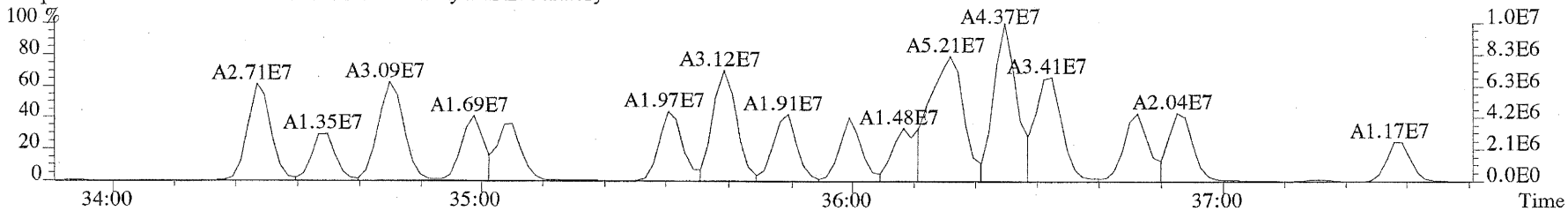
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



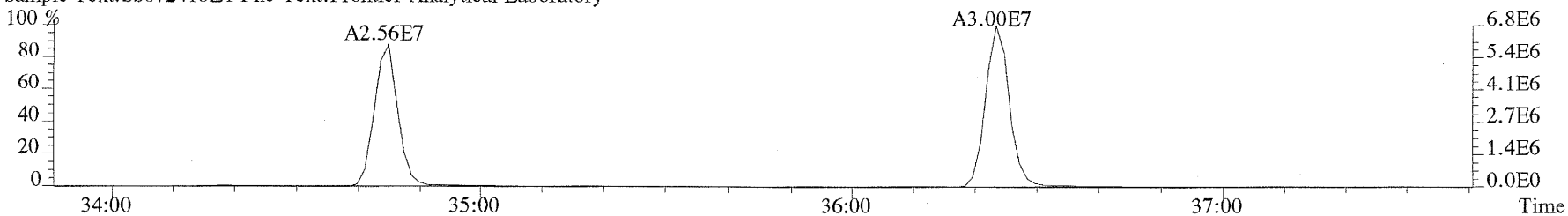
File:24JUL18Z #1-183 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-183 Acq:24-JUL-2018 13:03:29 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:SS072418Z1 File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-183 Acq:24-JUL-2018 13:03:29 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:SS072418Z1 File Text:Frontier Analytical Laboratory



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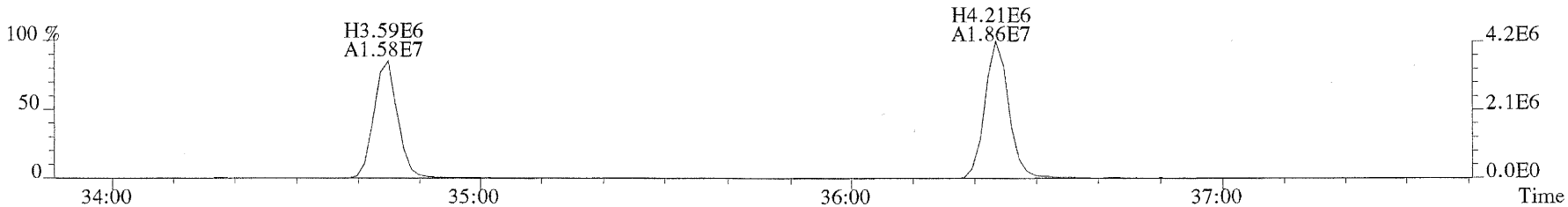
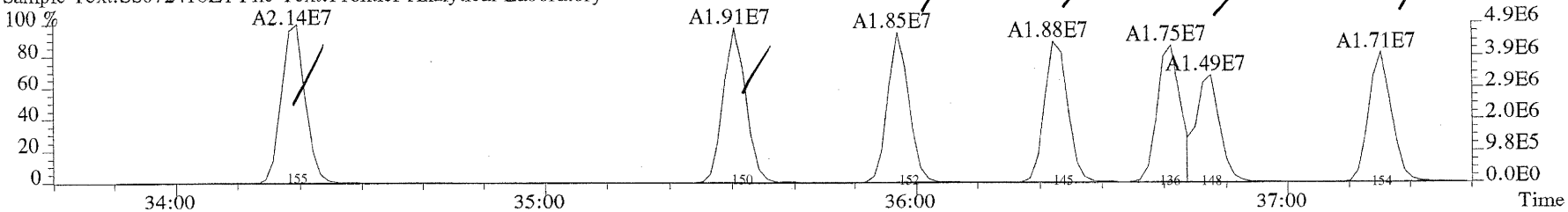
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-183 Acq:24-JUL-2018 13:03:29 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:SS072418Z1 File Text:Frontier Analytical Laboratory



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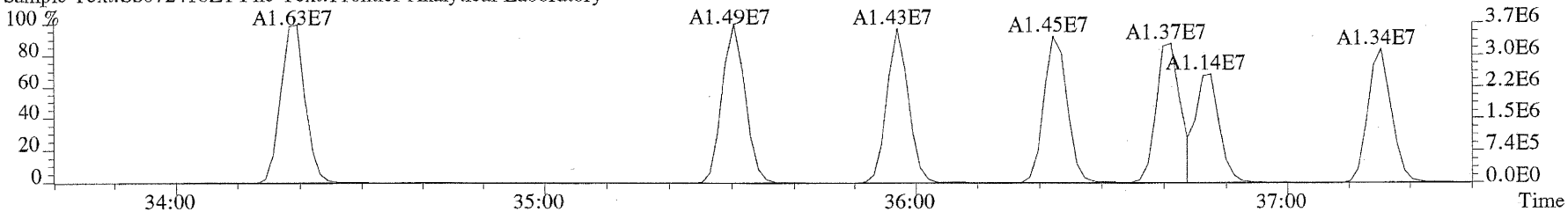
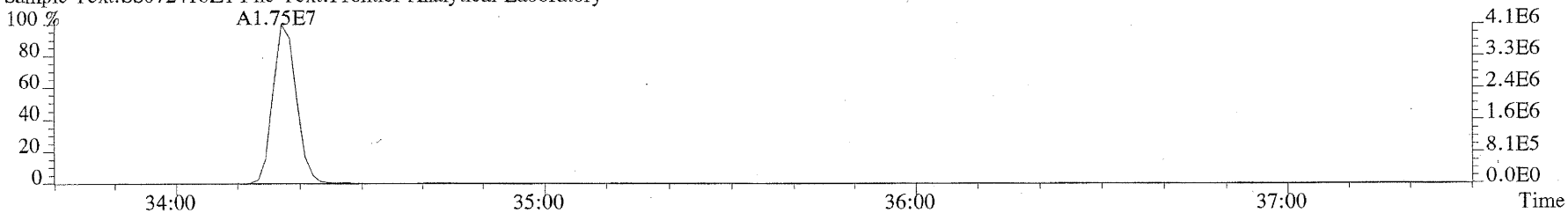
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-183 Acq:24-JUL-2018 13:03:29 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:SS072418Z1 File Text:Frontier Analytical Laboratory



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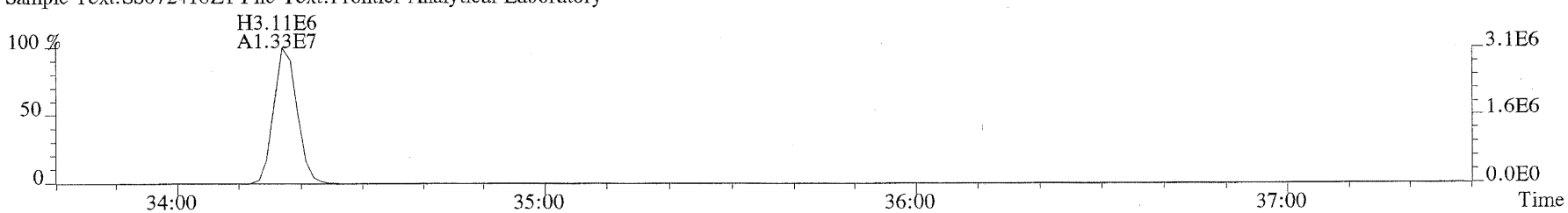
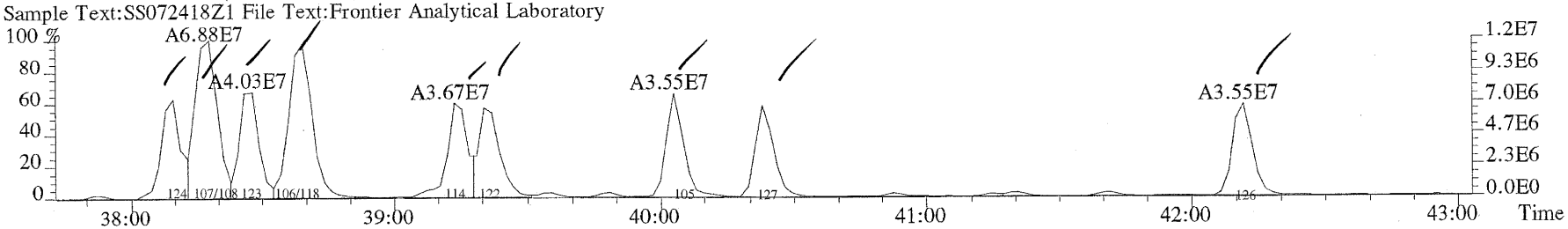
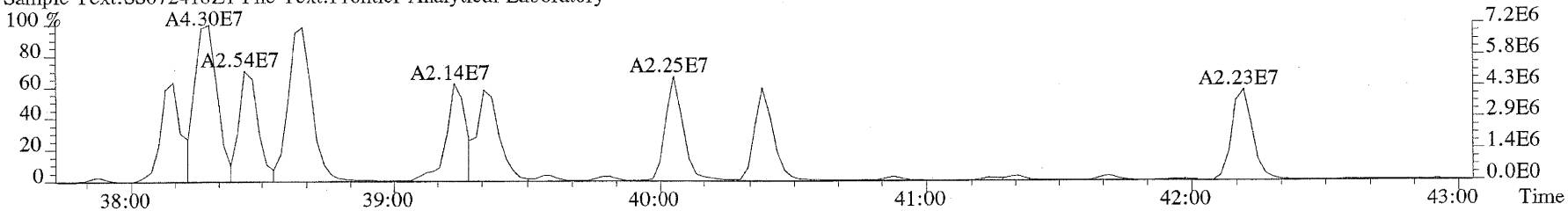
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-404 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 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:SS072418Z1 File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-404 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 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:SS072418Z1 File Text:Frontier Analytical Laboratory



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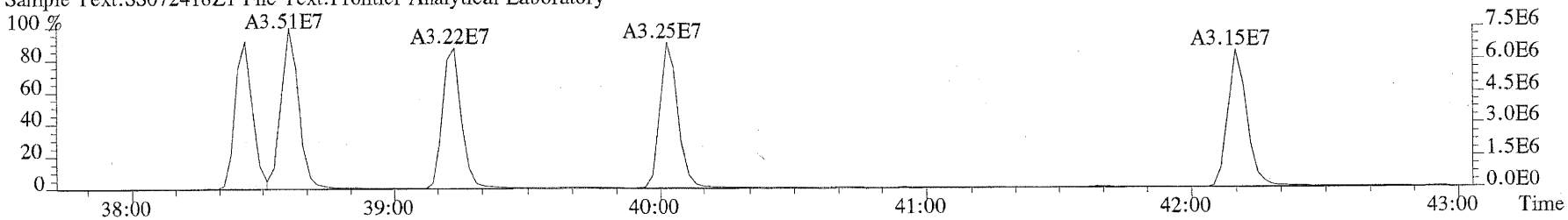
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



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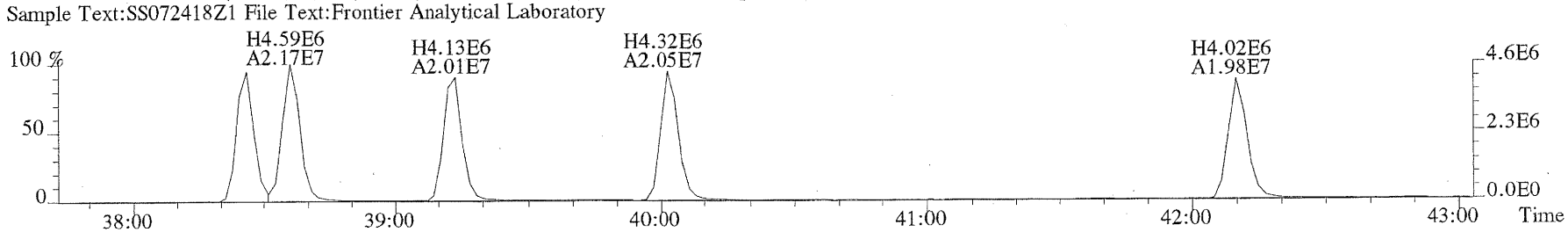
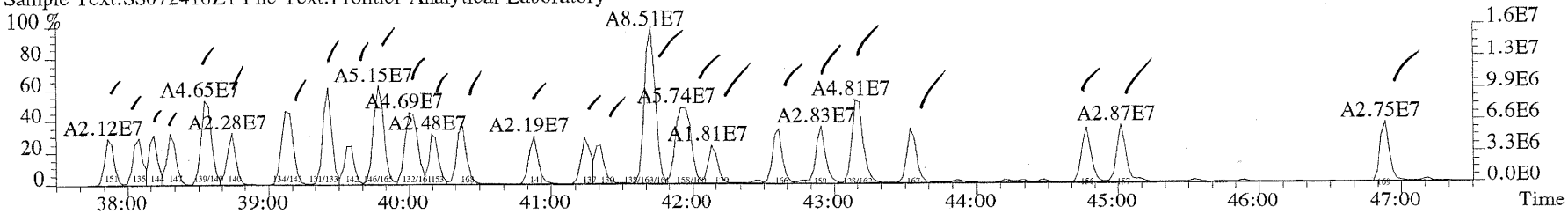
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-404 Acq:24-JUL-2018 13:03:29 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:SS072418Z1 File Text:Frontier Analytical Laboratory



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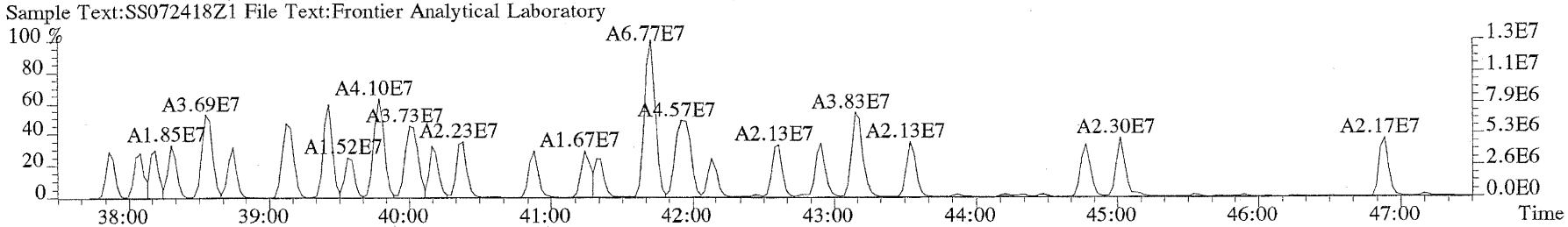
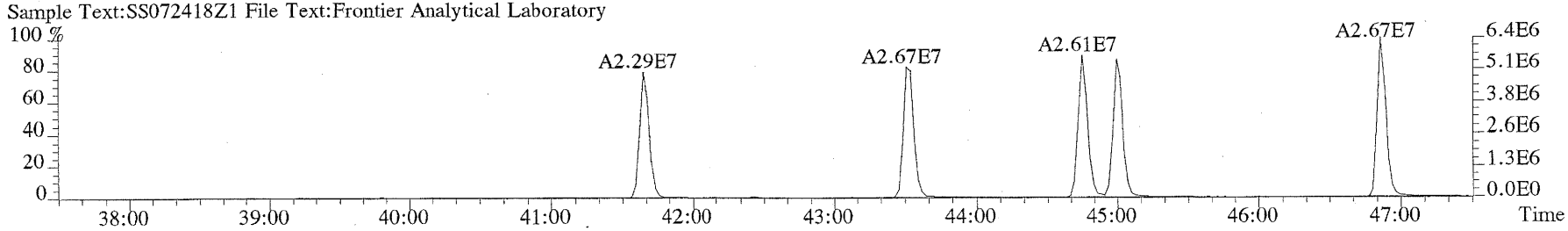
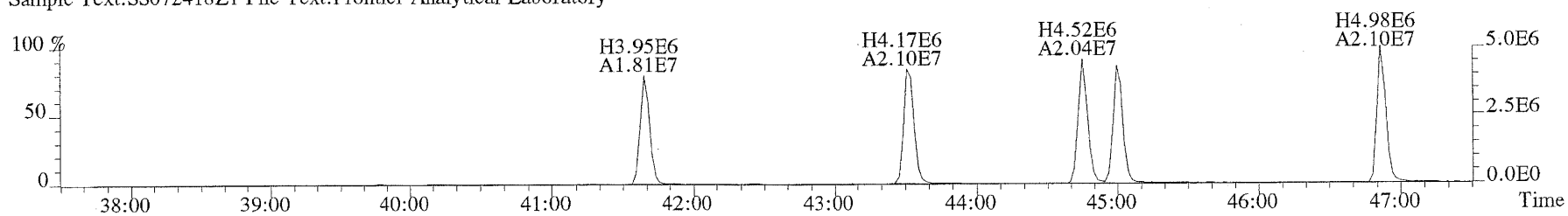
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-404 Acq:24-JUL-2018 13:03:29 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:SS072418Z1 File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-404 Acq:24-JUL-2018 13:03:29 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:SS072418Z1 File Text:Frontier Analytical Laboratory



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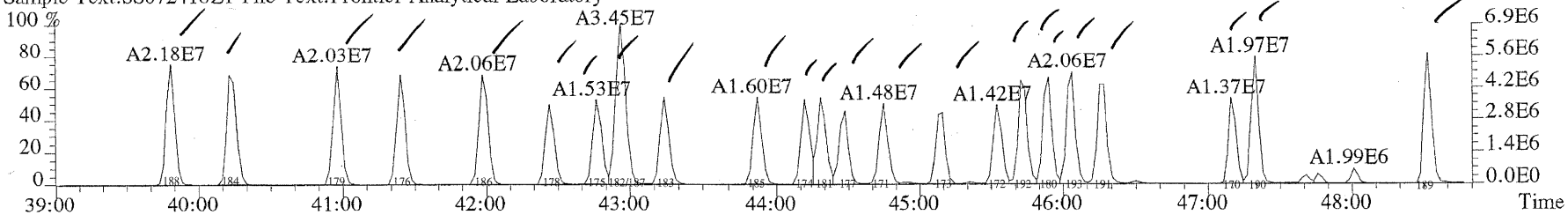
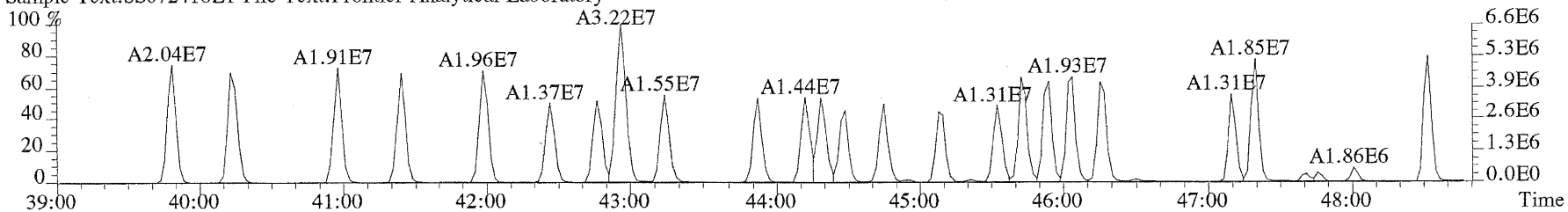
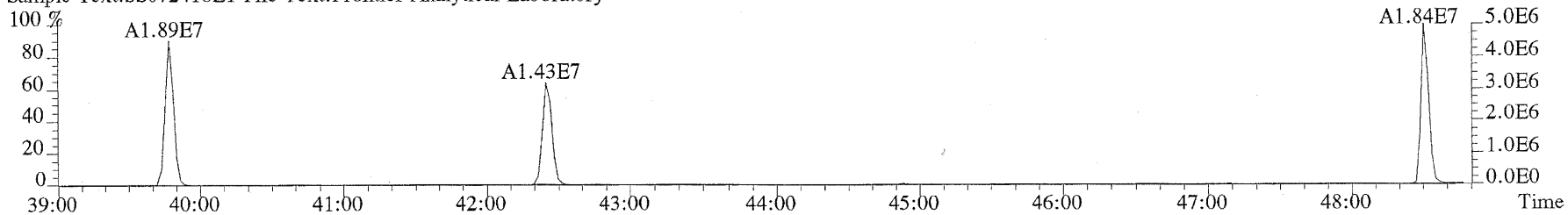
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



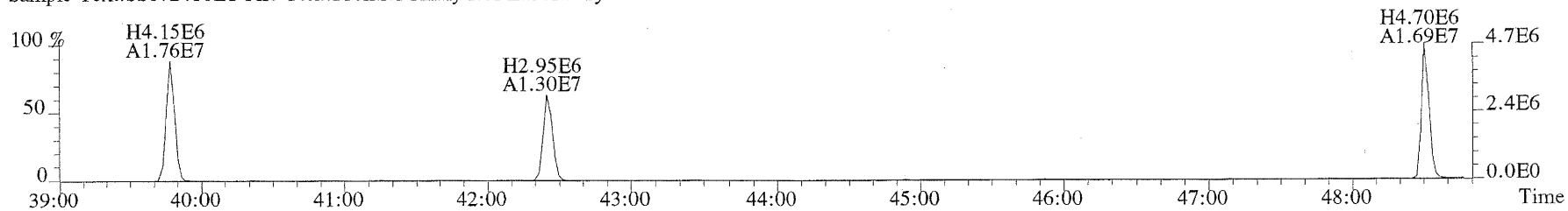
File:24JUL18Z #1-404 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



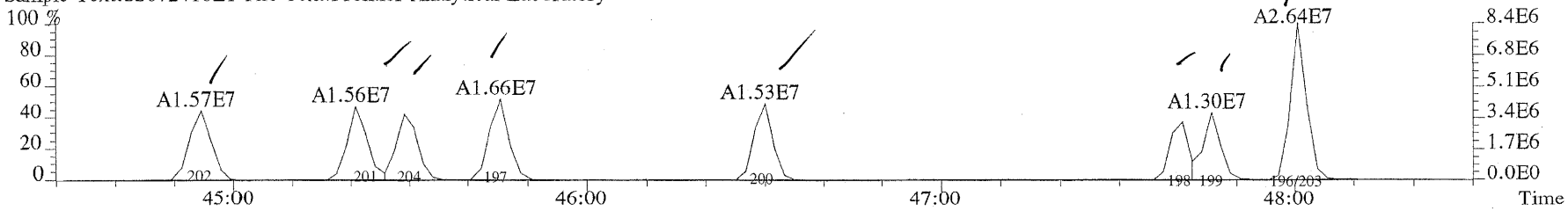
File:24JUL18Z #1-404 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



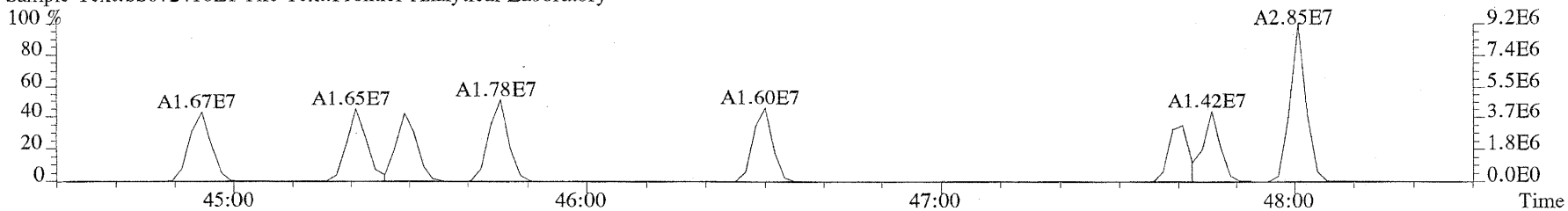
File:24JUL18Z #1-404 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



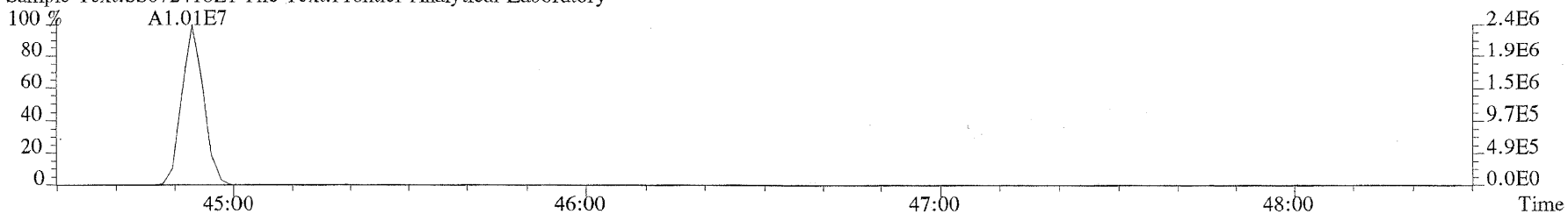
File:24JUL18Z #1-404 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



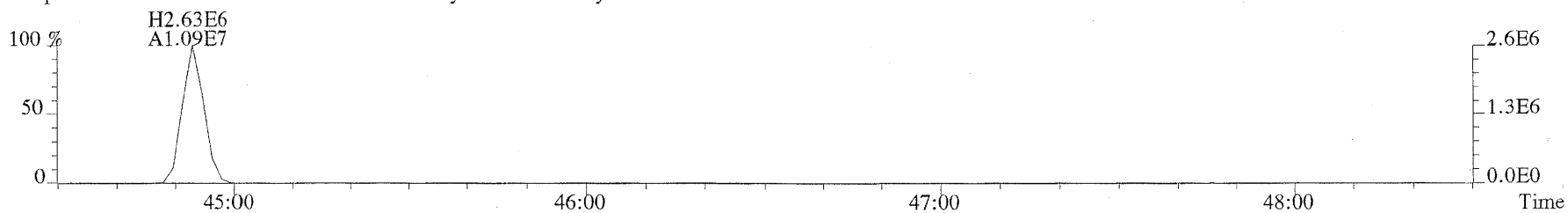
File:24JUL18Z #1-404 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



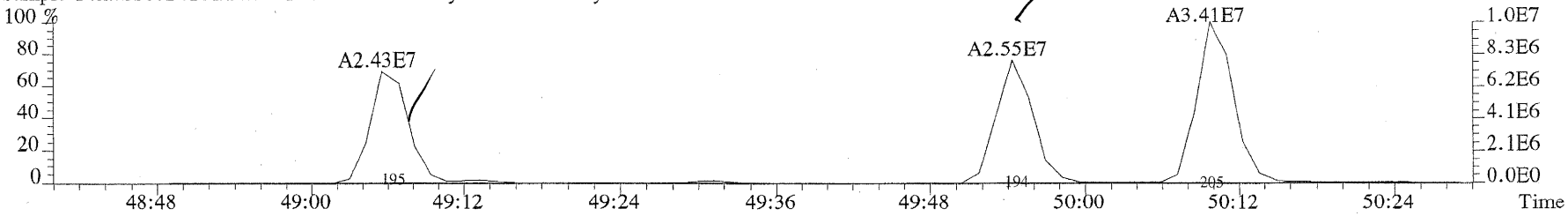
File:24JUL18Z #1-404 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



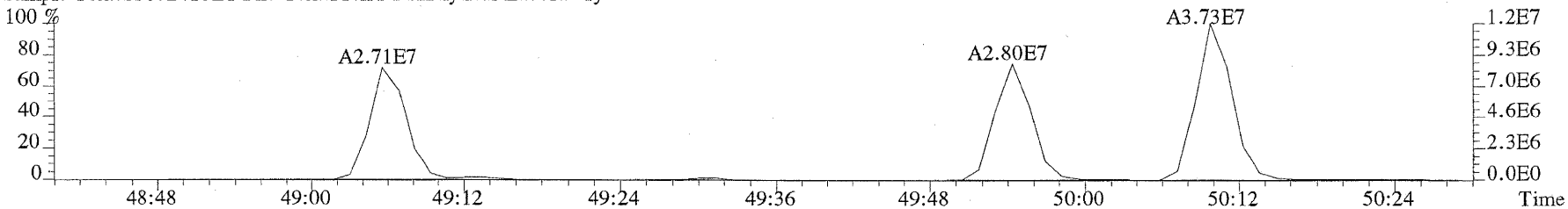
File:24JUL18Z #1-404 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



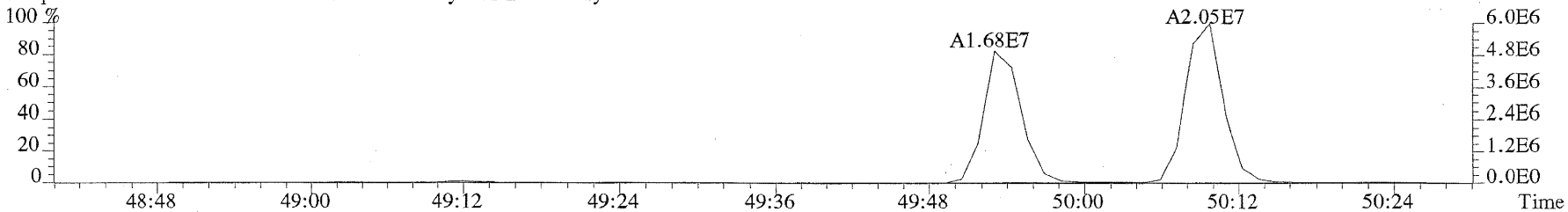
File:24JUL18Z #1-314 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



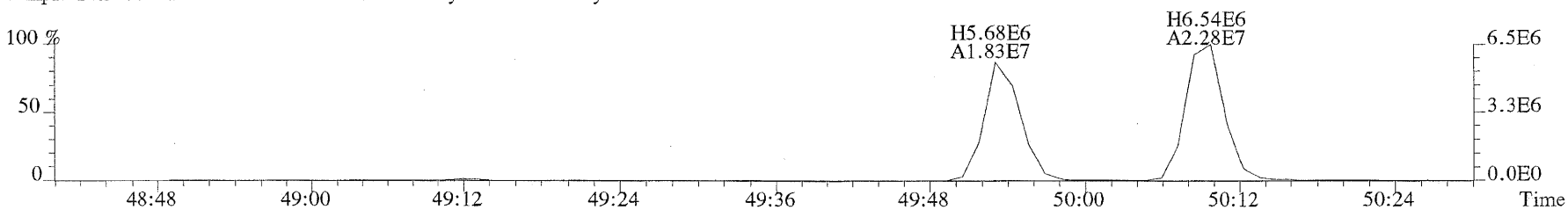
File:24JUL18Z #1-314 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



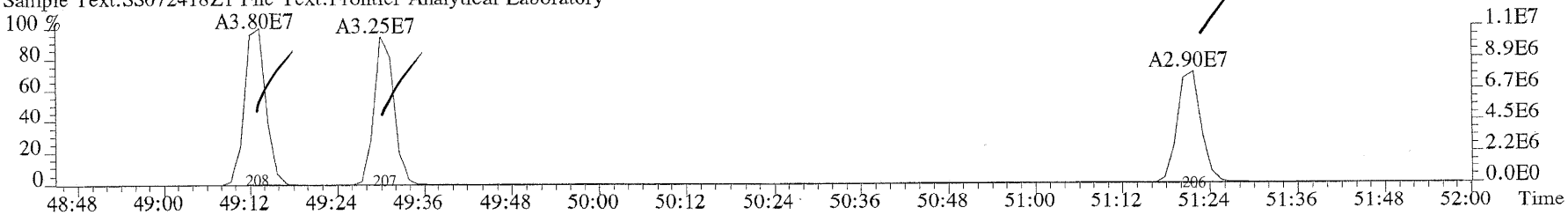
File:24JUL18Z #1-314 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



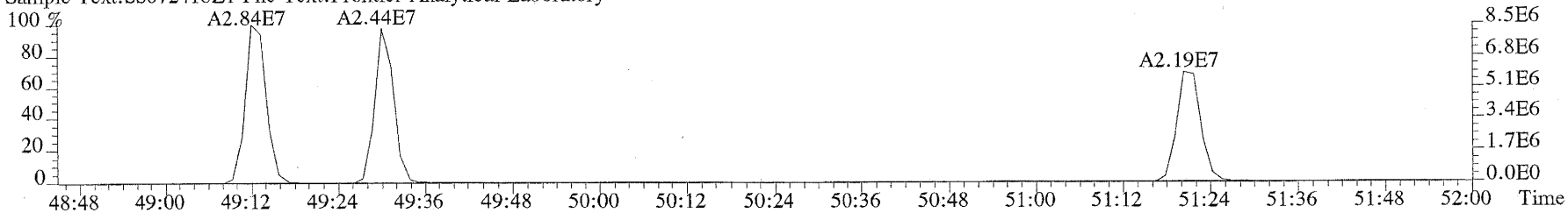
File:24JUL18Z #1-314 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



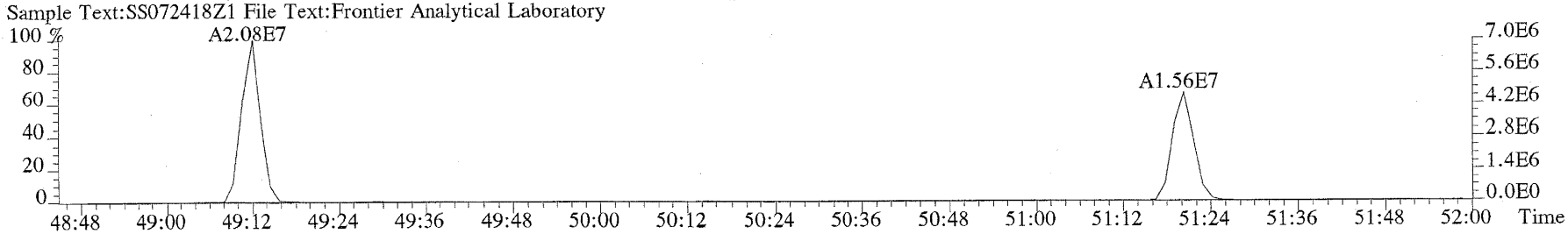
File:24JUL18Z #1-314 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



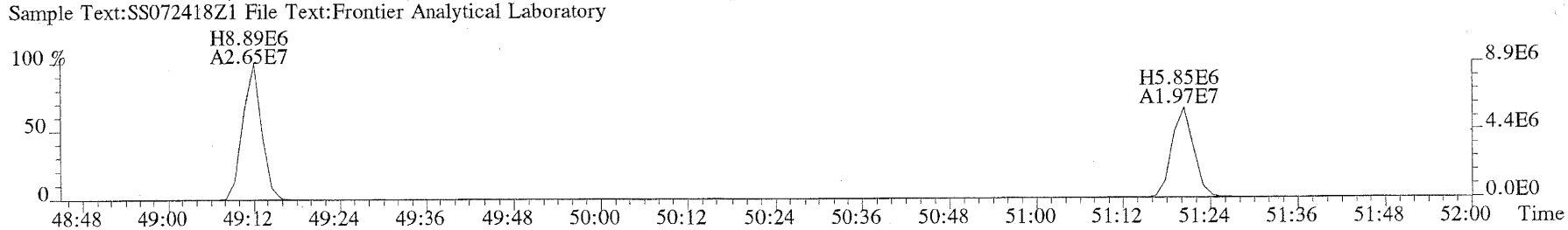
File:24JUL18Z #1-314 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



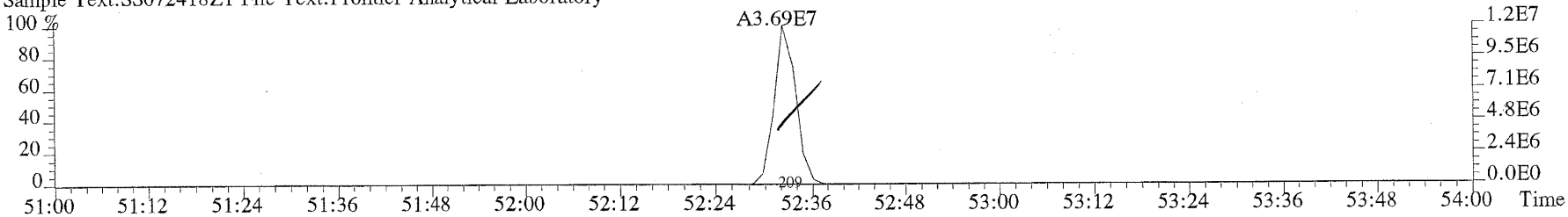
File:24JUL18Z #1-314 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



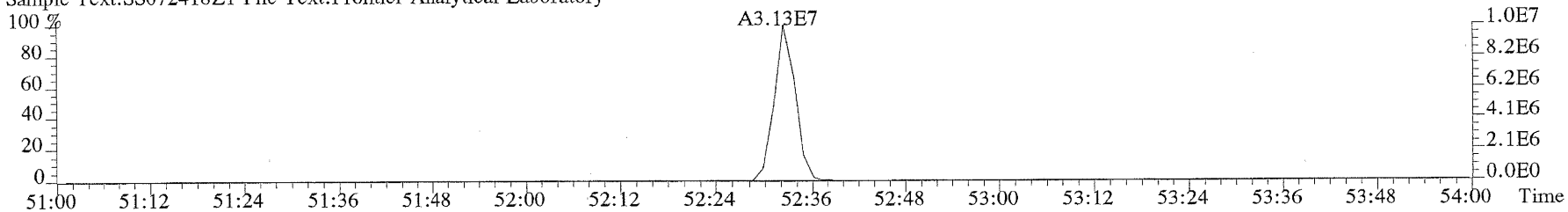
File:24JUL18Z #1-314 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



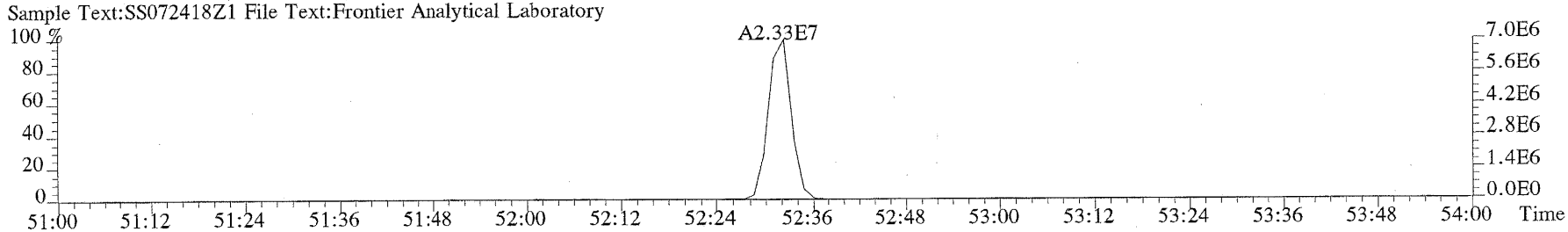
File:24JUL18Z #1-314 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



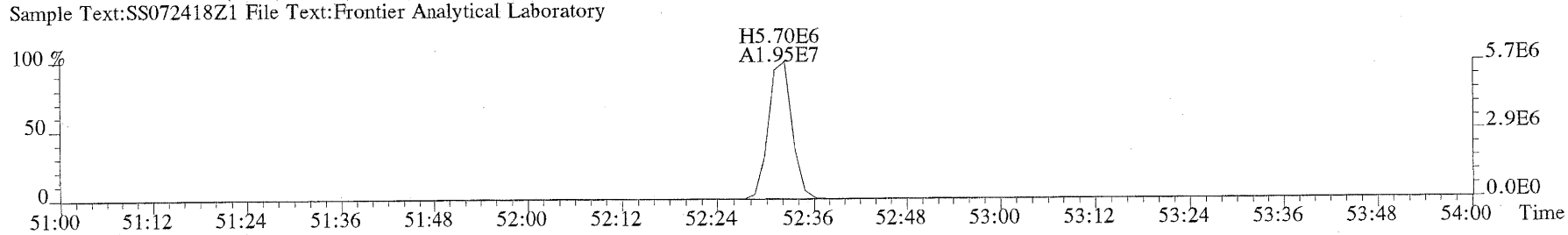
File:24JUL18Z #1-314 Acq:24-JUL-2018 13:03:29 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072418Z1 File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-314 Acq:24-JUL-2018 13:03:29 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:SS072418Z1 File Text:Frontier Analytical Laboratory



File:24JUL18Z #1-314 Acq:24-JUL-2018 13:03:29 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:SS072418Z1 File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 24JUL18Z Sam:12 Analysis Date: 24-JUL-18 22:50:29

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.20	2.66-3.60	y	52.7	37.5 - 62.5
PCB-3	M/M+2	3.16	2.66-3.60	y	51.6	37.5 - 62.5
PCB-4	M/M+2	1.49	1.33-1.79	y	52.1	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	51.9	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	50.7	37.5 - 62.5
PCB-37	M/M+2	1.07	0.88-1.20	y	45.7	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	52.2	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	51.9	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	51.8	37.5 - 62.5
PCB-104	M+2/M+4	1.62	1.32-1.78	y	53.7	37.5 - 62.5
PCB-105	M+2/M+4	1.62	1.32-1.78	y	50.9	37.5 - 62.5
PCB-114	M+2/M+4	1.62	1.32-1.78	y	51.8	37.5 - 62.5
PCB-118	M+2/M+4	1.64	1.32-1.78	y	51.7	37.5 - 62.5
PCB-123	M+2/M+4	1.61	1.32-1.78	y	49.3	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	49.2	37.5 - 62.5
PCB-155	M+2/M+4	1.31	1.05-1.43	y	56.0	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	51.8	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	51.3	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	53.3	37.5 - 62.5
PCB-169	M+2/M+4	1.29	1.05-1.43	y	52.6	37.5 - 62.5
PCB-188	M+2/M+4	1.09	0.89-1.21	y	51.0	37.5 - 62.5
PCB-189	M+2/M+4	1.08	0.89-1.21	y	53.6	37.5 - 62.5
PCB-202	M+2/M+4	0.96	0.76-1.02	y	54.1	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	54.5	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	48.4	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	49.3	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	49.8	37.5 - 62.5

Analyst: [illegible] Date: 7/25/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 24JUL18Z Sam:12 Analysis Date: 24-JUL-18 22:50:29

	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	84.3	50.0 - 145
13C-PCB-3	M/M+2	3.25	2.66-3.60	y	89.1	50.0 - 145
13C-PCB-4	M/M+2	1.59	1.33-1.79	y	96.8	50.0 - 145
13C-PCB-15	M/M+2	1.61	1.33-1.79	y	98.8	50.0 - 145
13C-PCB-19	M/M+2	1.10	0.88-1.20	y	96.0	50.0 - 145
13C-PCB-37	M/M+2	1.08	0.88-1.20	y	125	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	102	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	115	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	115	50.0 - 145
13C-PCB-104	M+2/M+4	1.62	1.32-1.78	y	77.0	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	106	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	107	50.0 - 145
13C-PCB-118	M+2/M+4	1.63	1.32-1.78	y	108	50.0 - 145
13C-PCB-123	M+2/M+4	1.61	1.32-1.78	y	105	50.0 - 145
13C-PCB-126	M+2/M+4	1.63	1.32-1.78	y	113	50.0 - 145
13C-PCB-155	M+2/M+4	1.32	1.05-1.43	y	74.0	50.0 - 145
13C-PCB-156	M+2/M+4	1.30	1.05-1.43	y	101	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	103	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	101	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	107	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	82.8	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	94.7	50.0 - 145
13C-PCB-202	M+2/M+4	0.94	0.76-1.02	y	63.4	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	94.5	50.0 - 145
13C-PCB-206	M+2/M+4	0.78	0.65-0.89	y	113	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	101	50.0 - 145
13C-PCB-209	M+4/M+6	1.22	0.99-1.33	y	107	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	122	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	97.8	75.0 - 125
13C-PCB-178	M+2/M+4	1.09	0.89-1.21	y	81.1	75.0 - 125

Analyst: _____ Date: 7/25/18

FAL ID: ST072418Z2 Filename: 24JUL18Z Sam:12 Acquired: 24-JUL-18 22:50:29 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 R170805A ConCal: NA EndCal: NA
Results: 24JUL18Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.31e+07	3.20 y	14:34	1.11	52.7		2.50	-	-	*	-
13C-PCB-1	1.08e+08	3.24 y	14:33	1.07	84.3		2.50				84.3
PCB-3	6.45e+07	3.16 y	17:01	1.13	51.6		2.50	-	-	*	-
13C-PCB-3	1.11e+08	3.25 y	17:00	1.03	89.1		2.50				89.1
PCB-4	4.69e+07	1.49 y	18:15	1.14	52.1		2.50	-	-	*	-
13C-PCB-4	7.87e+07	1.59 y	18:13	0.67	96.8		2.50				96.8
PCB-15	7.04e+07	1.57 y	23:48	1.10	51.9		2.50	-	-	*	-
13C-PCB-15	1.23e+08	1.61 y	23:48	1.03	98.8		2.50				98.8
PCB-19	3.39e+07	1.06 y	22:08	1.23	50.7		2.50	-	-	*	-
13C-PCB-19	5.44e+07	1.10 y	22:07	0.47	96.0		2.50				96.0
13C-PCB-9	1.20e+08	1.62 y	19:55	-	514		2.50				
PCB-37	5.90e+07	1.07 y	30:28	1.26	45.7		2.50	-	-	*	-
13C-PCB-37	1.03e+08	1.08 y	30:27	1.40	125		2.50				125
PCB-54	4.31e+07	0.80 y	25:40	1.16	52.2		2.50	-	-	*	-
13C-PCB-54	7.15e+07	0.81 y	25:39	1.19	102		2.50				102
PCB-104	2.39e+07	1.62 y	30:07	1.22	53.7		2.50	-	-	*	-
13C-PCB-104	3.63e+07	1.62 y	30:06	0.80	77.0		2.50				77.0
13C-PCB-28	1.10e+08	1.04 y	26:45	1.53	122		2.50				122
13C-PCB-52	5.90e+07	0.80 y	29:01	-	455		2.50				
PCB-81	4.71e+07	0.81 y	36:15	1.17	51.8		2.50	-	-	*	-
13C-PCB-81	7.79e+07	0.81 y	36:13	1.37	115		2.50				115
PCB-77	4.60e+07	0.80 y	36:49	1.11	51.9		2.50	-	-	*	-
13C-PCB-77	8.00e+07	0.81 y	36:47	1.41	115		2.50				115
PCB-155	2.39e+07	1.31 y	34:17	1.14	56.0		2.50	-	-	*	-
13C-PCB-155	3.74e+07	1.32 y	34:16	1.02	74.0		2.50				74.0
13C-PCB-111	6.12e+07	1.60 y	36:22	1.26	97.8		2.50				97.8
13C-PCB-101	4.95e+07	1.64 y	34:44	-	439		2.50				
PCB-123	3.94e+07	1.61 y	38:26	1.12	49.3		2.50	-	-	*	-
13C-PCB-123	7.12e+07	1.61 y	38:24	1.36	105		2.50				105
PCB-118	4.57e+07	1.64 y	38:38	1.16	51.7		2.50	-	-	*	-
13C-PCB-118	7.62e+07	1.63 y	38:36	1.42	108		2.50				108
PCB-114	4.27e+07	1.62 y	39:14	1.13	51.8		2.50	-	-	*	-
13C-PCB-114	7.33e+07	1.61 y	39:12	1.38	107		2.50				107
PCB-105	4.10e+07	1.62 y	40:03	1.11	50.9		2.50	-	-	*	-
13C-PCB-105	7.28e+07	1.61 y	40:01	1.38	106		2.50				106
PCB-126	3.95e+07	1.57 y	42:12	1.11	49.2		2.50	-	-	*	-
13C-PCB-126	7.21e+07	1.63 y	42:10	1.29	113		2.50				113
PCB-167	3.47e+07	1.26 y	43:32	1.05	53.3		2.50	-	-	*	-
13C-PCB-167	6.20e+07	1.27 y	43:31	1.23	101		2.50				101
PCB-156	3.34e+07	1.26 y	44:46	1.08	51.8		2.50	-	-	*	-
13C-PCB-156	5.99e+07	1.30 y	44:45	1.19	101		2.50				101
PCB-157	3.43e+07	1.26 y	45:01	1.06	51.3		2.50	-	-	*	-
13C-PCB-157	6.33e+07	1.29 y	44:59	1.24	103		2.50				103
PCB-169	3.40e+07	1.29 y	46:53	1.06	52.6		2.50	-	-	*	-
13C-PCB-169	6.10e+07	1.27 y	46:51	1.15	107		2.50				107
PCB-188	2.70e+07	1.09 y	39:47	1.14	51.0		2.50	-	-	*	-
13C-PCB-188	4.64e+07	1.09 y	39:45	1.13	82.8		2.50				82.8
PCB-189	2.66e+07	1.08 y	48:32	1.12	53.6		2.50	-	-	*	-
13C-PCB-189	4.45e+07	1.08 y	48:30	0.94	94.7		2.50				94.7
PCB-202	1.44e+07	0.96 y	44:53	1.09	54.1		2.50	-	-	*	-
13C-PCB-202	2.43e+07	0.94 y	44:53	0.77	63.4		2.50				63.4
13C-PCB-178	3.07e+07	1.09 y	42:25	0.76	81.1		2.50				81.1
13C-PCB-138	4.97e+07	1.29 y	41:39	-	454		2.50				

FAL ID: ST072418Z2 Filename: 24JUL18Z Sam:12 Acquired: 24-JUL-18 22:50:29 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 R170805A ConCal: NA EndCal: NA
Results: 24JUL18Z GC Column: DB1MS Amount: 1.000

PCB-205	3.52e+07	0.90 y	50:10	1.04	54.5	2.50	-	-	*	-
13C-PCB-205	6.21e+07	0.90 y	50:08	1.32	94.5	2.50				94.5
PCB-208	3.16e+07	1.35 y	49:12	0.96	49.3	2.50	-	-	*	-
13C-PCB-208	6.66e+07	0.80 y	49:12	1.33	101	2.50				101
PCB-206	2.49e+07	1.35 y	51:22	0.97	48.4	2.50	-	-	*	-
13C-PCB-206	5.28e+07	0.78 y	51:20	0.94	113	2.50				113
PCB-209	3.24e+07	1.19 y	52:31	1.17	49.8	2.50	-	-	*	-
13C-PCB-209	5.55e+07	1.22 y	52:31	1.04	107	2.50				107
13C-PCB-194	4.98e+07	0.92 y	49:53	-	502	2.50				

Analyst: _____ Date: 7/25/18

Frontier Analytical Laboratory - Acquisition Log

Run Name:24JUL18Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
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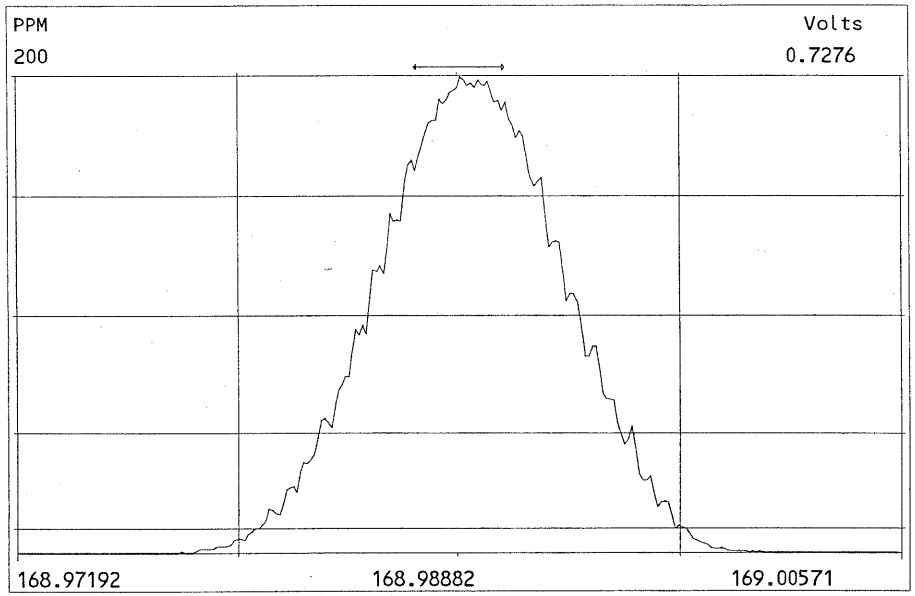
24JUL18Z	2	SS072418Z1	Daily 209 171222A	24-JUL-18 13:03:29	ST072418Z1	ST072418Z2	BS
24JUL18Z	3	SB072418Z1	Solvent Blank	24-JUL-18 14:02:15	ST072418Z1	ST072418Z2	BS
24JUL18Z	4	11704-007-0001-SA	LDW-Y1-SU-S010-LCB	24-JUL-18 15:01:01	ST072418Z1	ST072418Z2	BS
24JUL18Z	5	11710-010-0001-SA	Tampax Pure & clean regular ¶	24-JUL-18 15:59:47	ST072418Z1	ST072418Z2	BS
24JUL18Z	6	11722-002-0001-SA	Tampax Pure & clean regular ¶	24-JUL-18 16:58:11	ST072418Z1	ST072418Z2	BS
24JUL18Z	7	11614-021-0001-SA	Charmin Essential Soft - KMa¶	24-JUL-18 17:56:59	ST072418Z1	ST072418Z2	BS
24JUL18Z	8	11614-026-0001-SA	Charmin Ultra Gentle - Targe¶	24-JUL-18 18:55:44	ST072418Z1	ST072418Z2	BS
24JUL18Z	9	11710-003-0001-SA	Tampax Radiant SuperPlus-812¶	24-JUL-18 19:54:31	ST072418Z1	ST072418Z2	BS
24JUL18Z	10	SB072418Z2	Solvent Blank	24-JUL-18 20:53:18	ST072418Z1	ST072418Z2	BS
24JUL18Z	11	SB072418Z3	Solvent Blank	24-JUL-18 21:51:43	ST072418Z1	ST072418Z2	BS
24JUL18Z	12	ST072418Z2	1668 CS3 170805A	24-JUL-18 22:50:29	ST072418Z1	ST072418Z2	BS

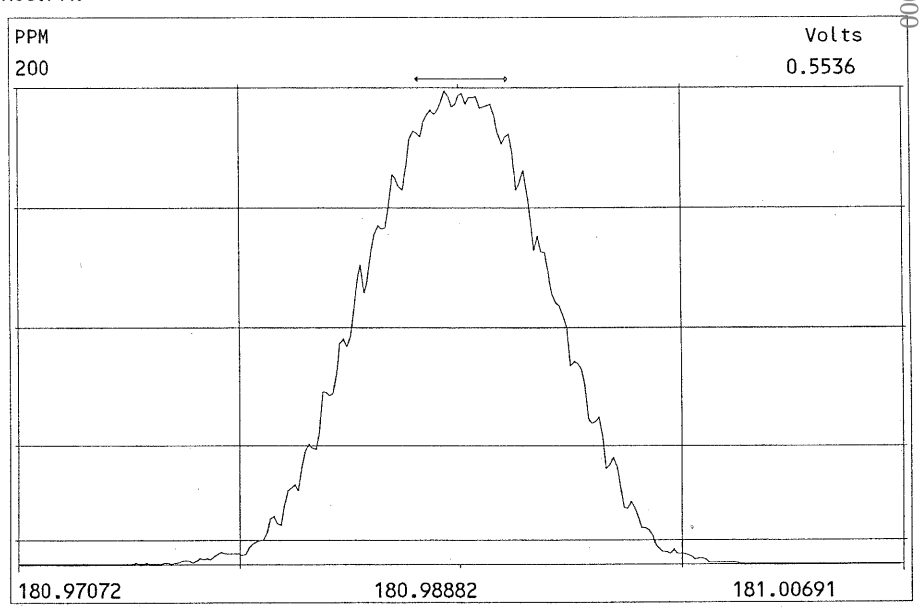
7/25/18

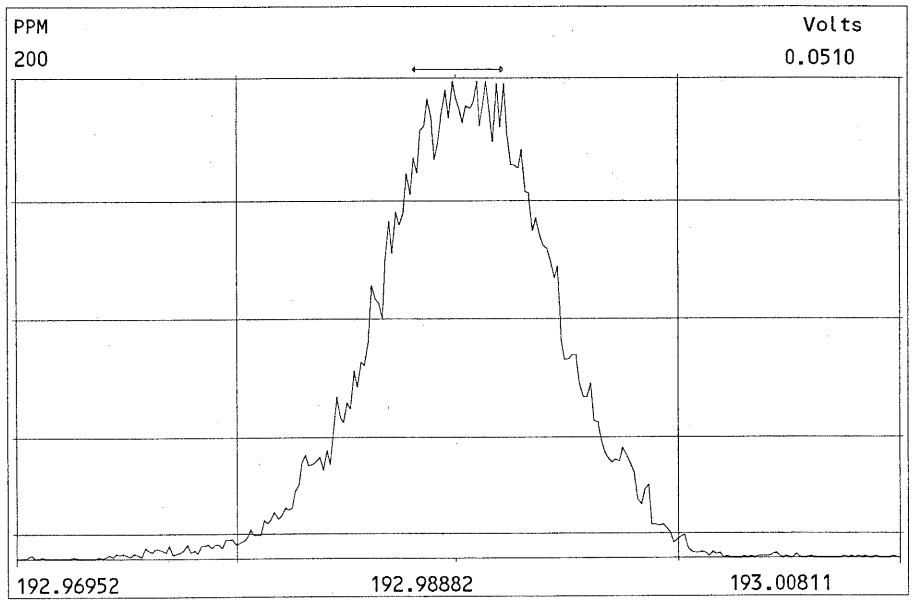
Data Backed Up:_____

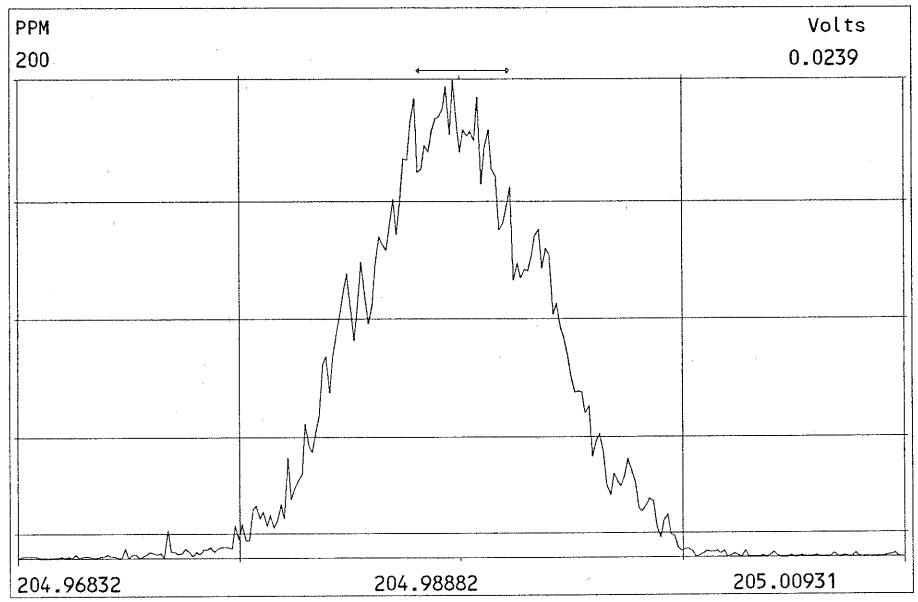
Date:_____

Peak Locate Examination:24-JUL-2018:12:02 File:24JUL18Z
Experiment:1668PCB Function:1 Reference:PFK

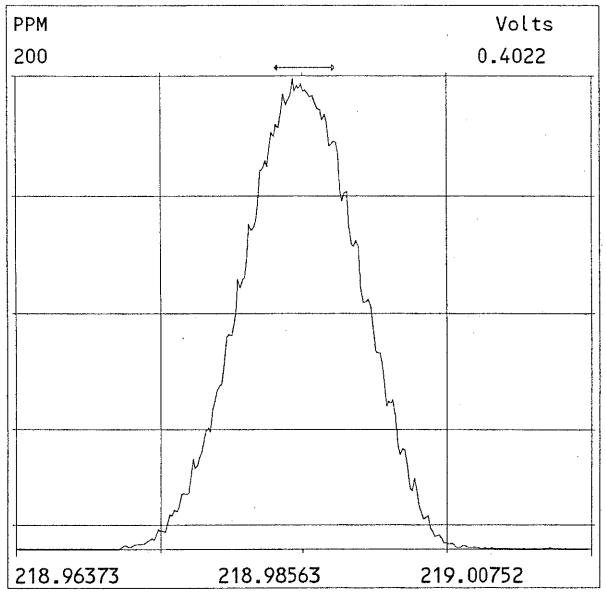


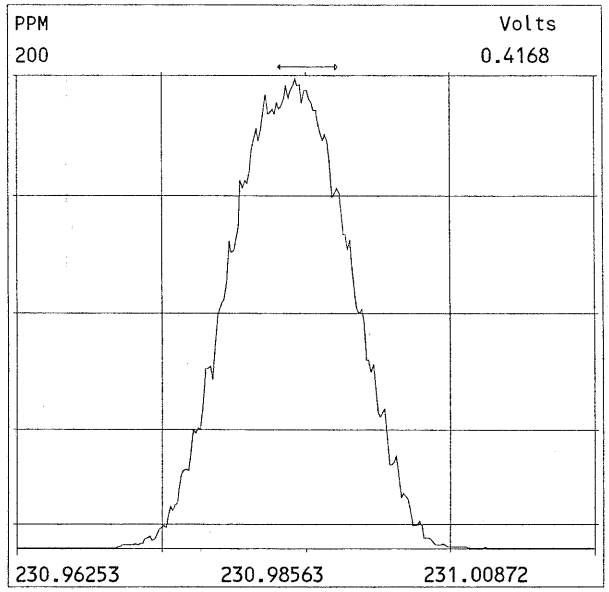


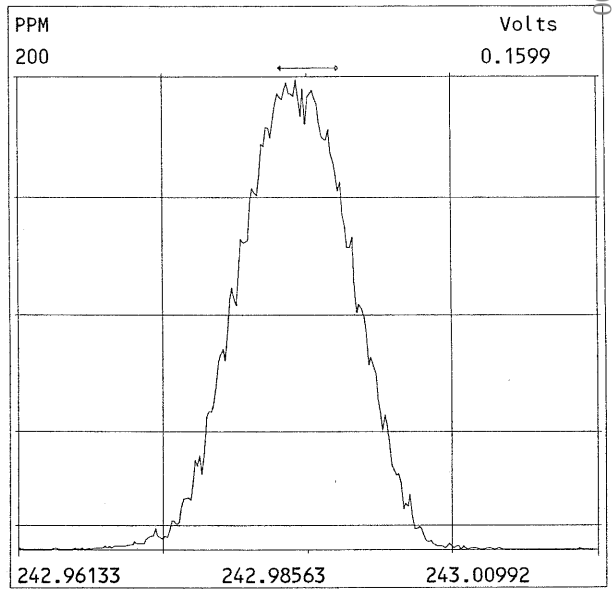


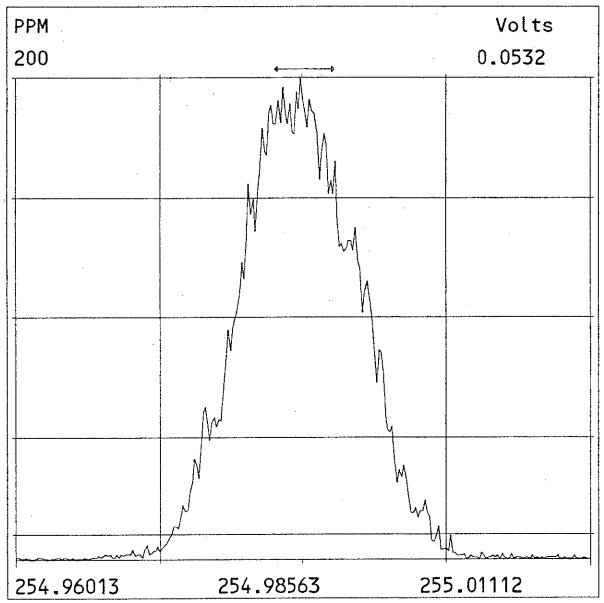


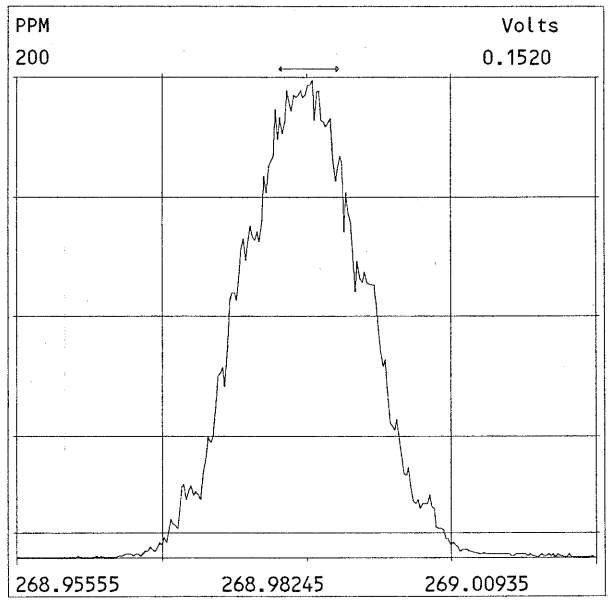
Peak Locate Examination:24-JUL-2018:12:02 File:24JUL18Z
Experiment:1668PCB Function:2 Reference:PFK

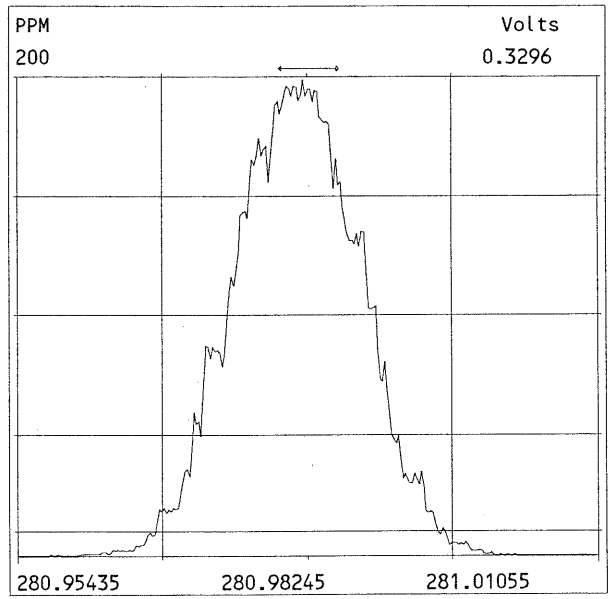




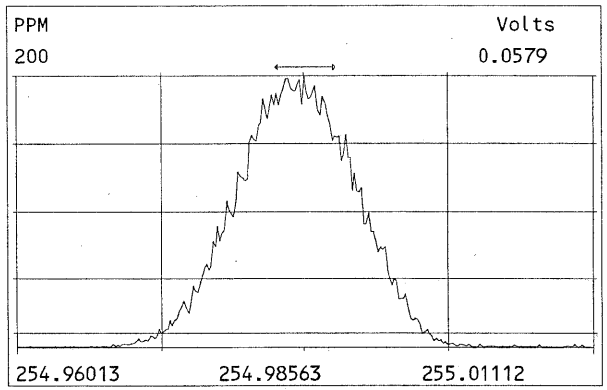


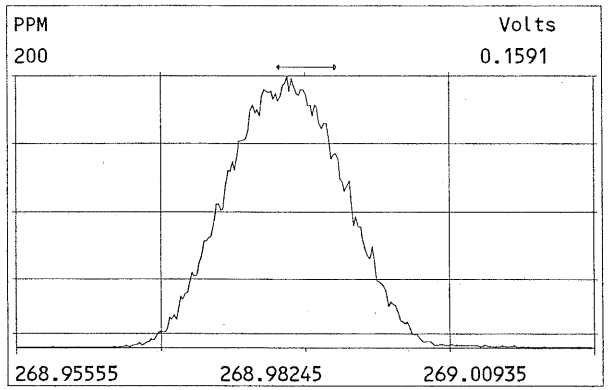


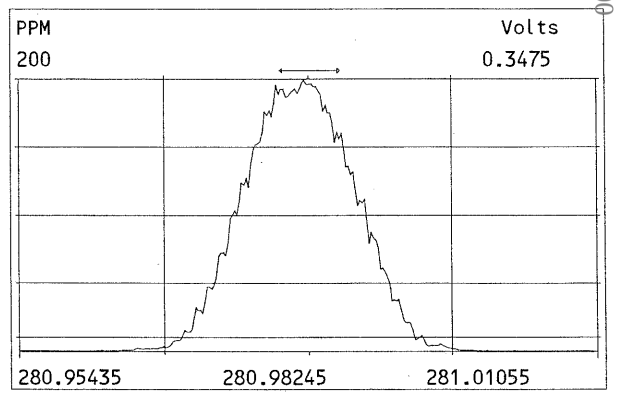


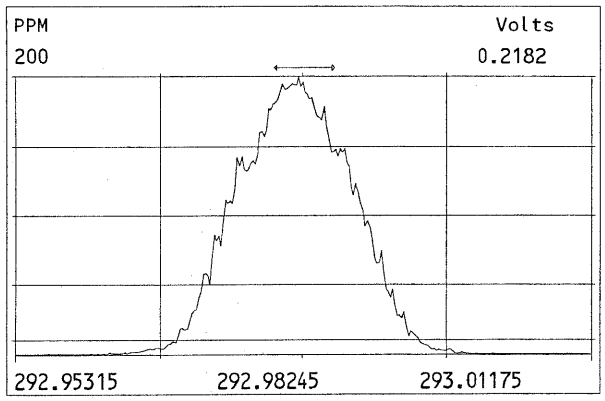


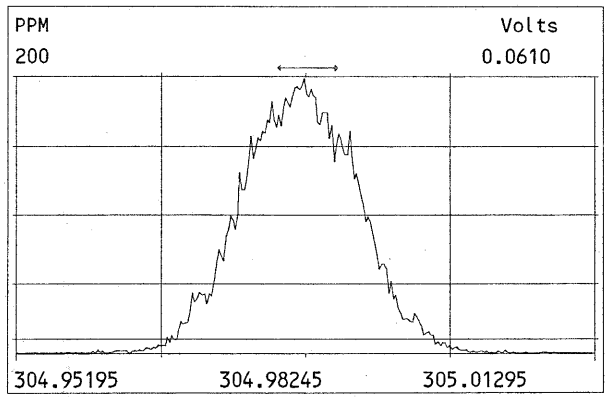
Peak Locate Examination:24-JUL-2018:12:02 File:24JUL18Z
Experiment:1668PCB Function:3 Reference:PFK

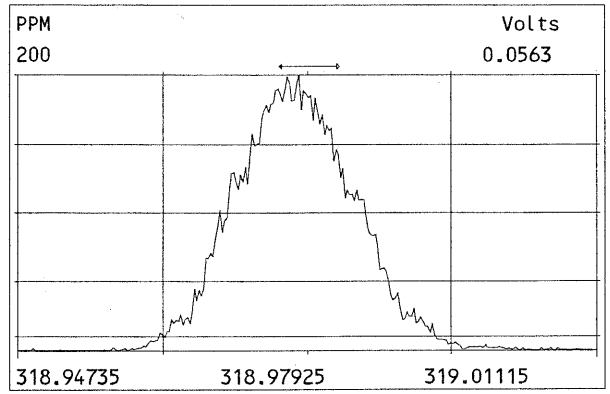


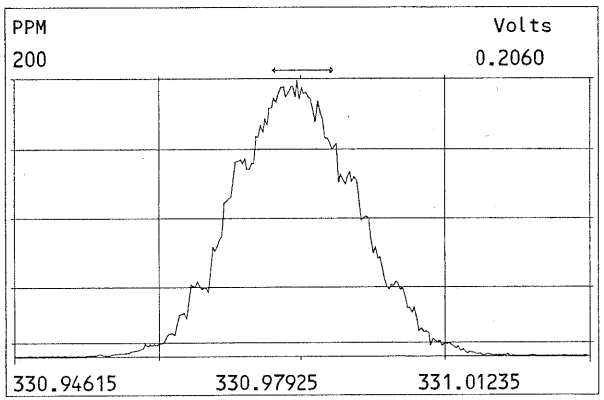


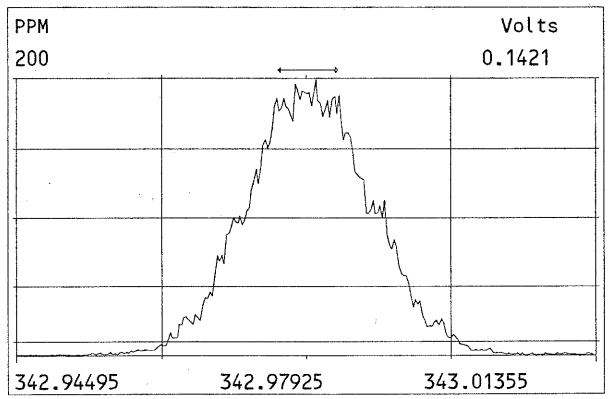




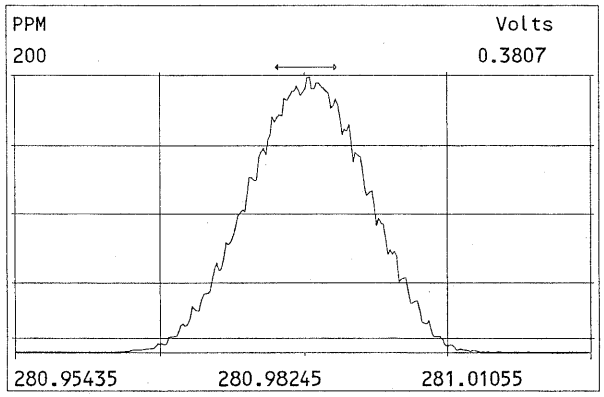


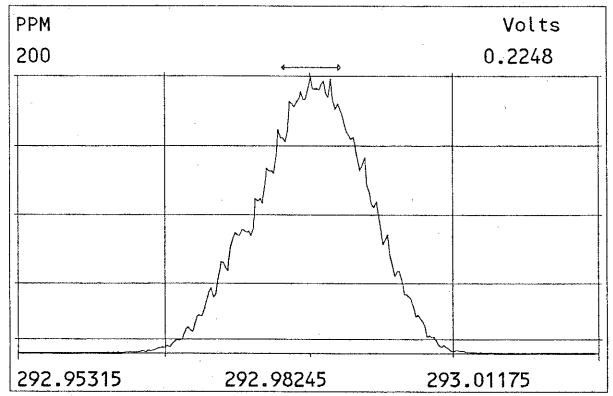


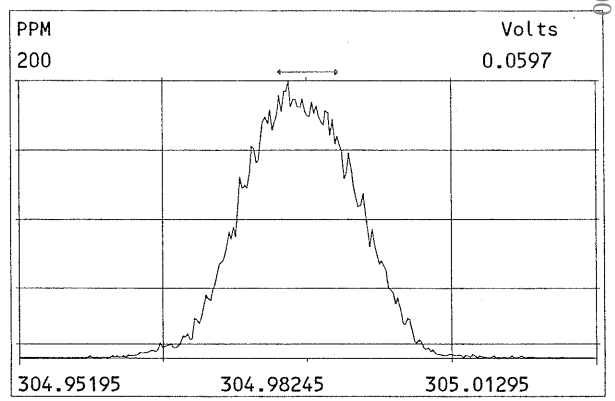


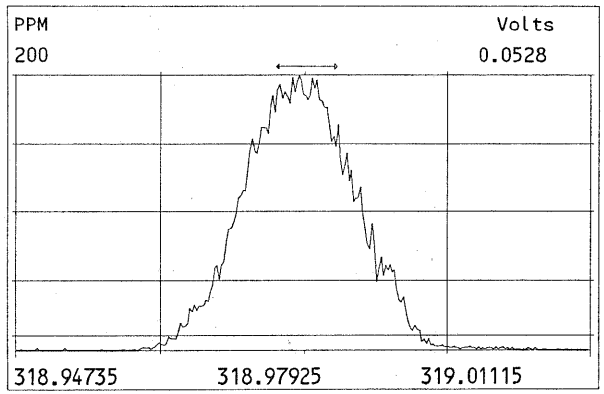


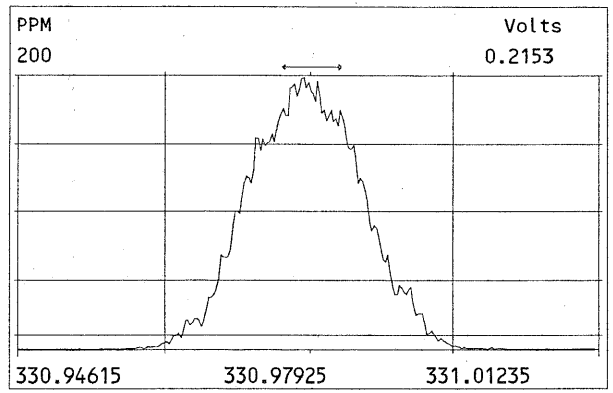
Peak Locate Examination:24-JUL-2018:12:03 File:24JUL18Z
Experiment:1668PCB Function:4 Reference:PFK

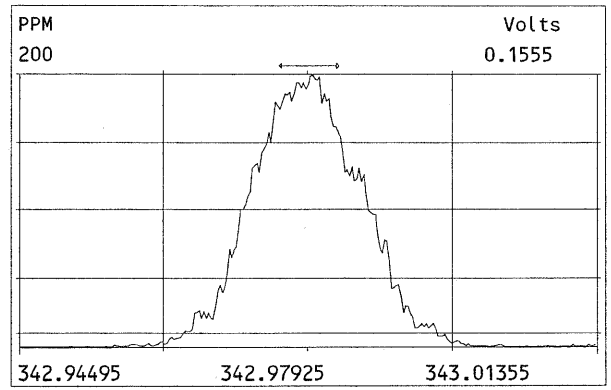


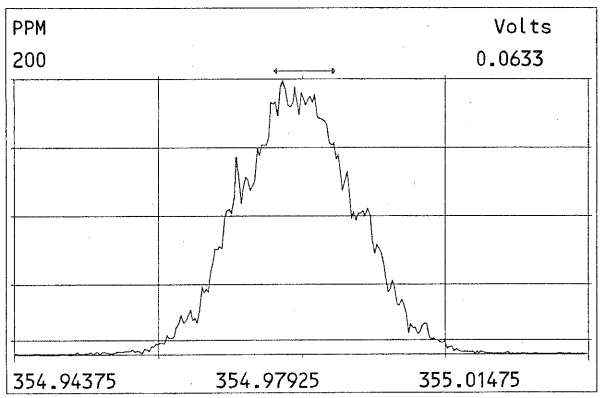


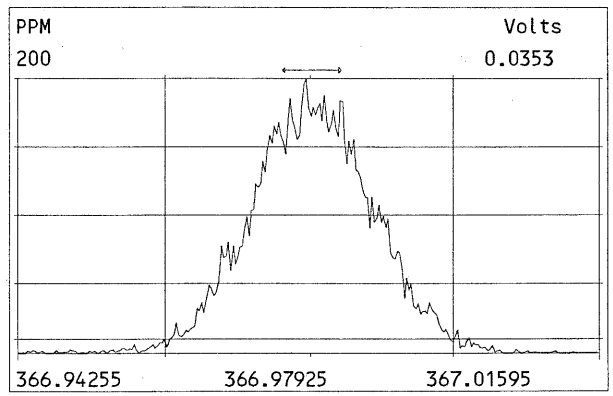


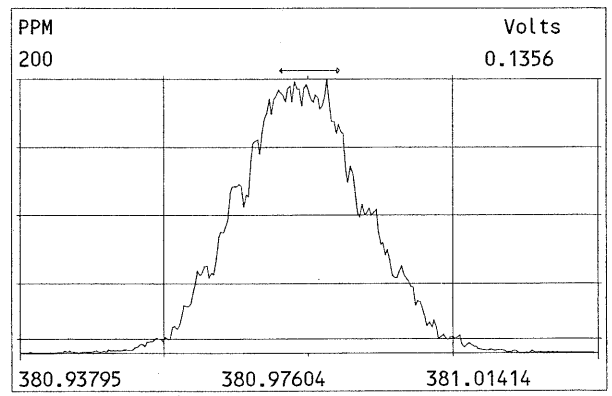




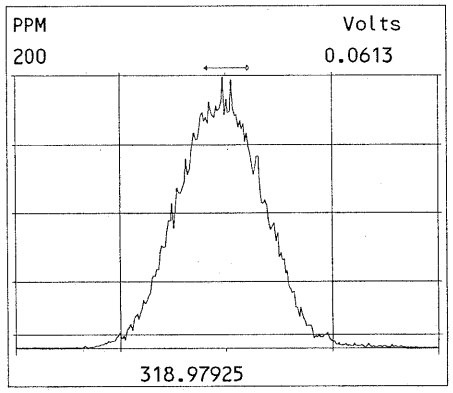


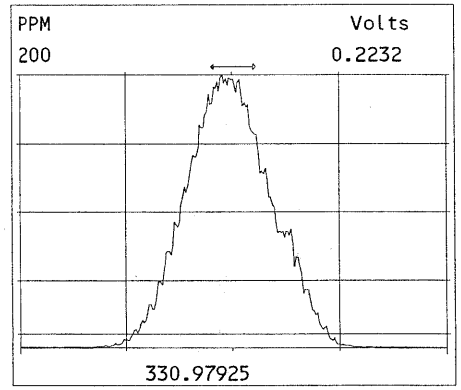


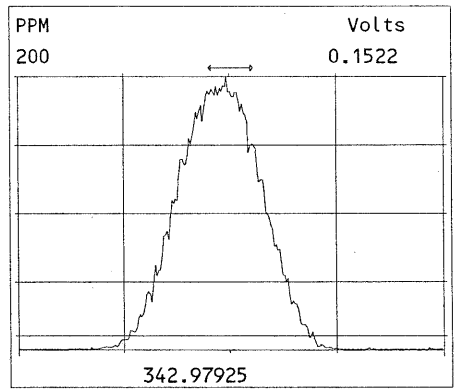


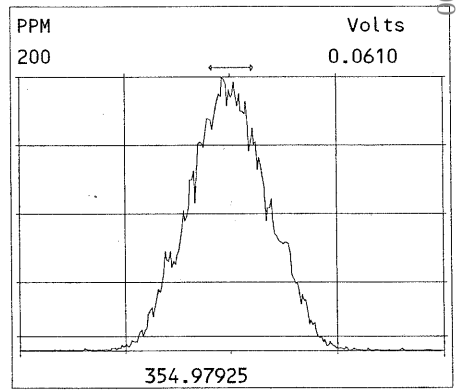


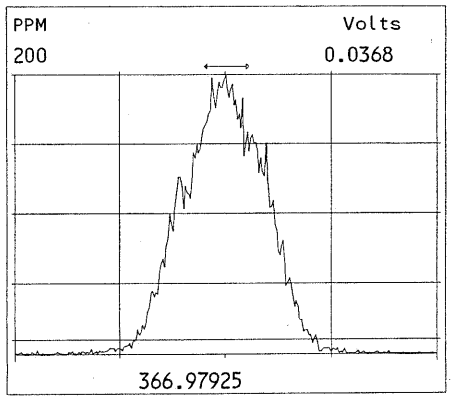
Peak Locate Examination:24-JUL-2018:12:04 File:24JUL18Z
Experiment:1668PCB Function:5 Reference:PFK

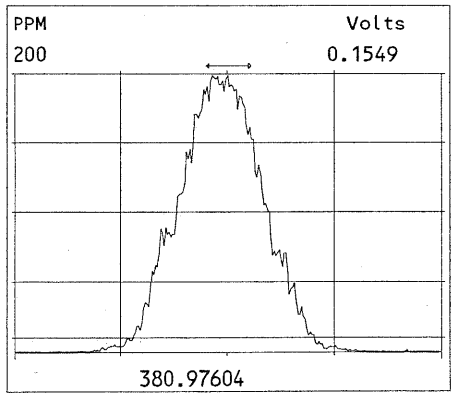


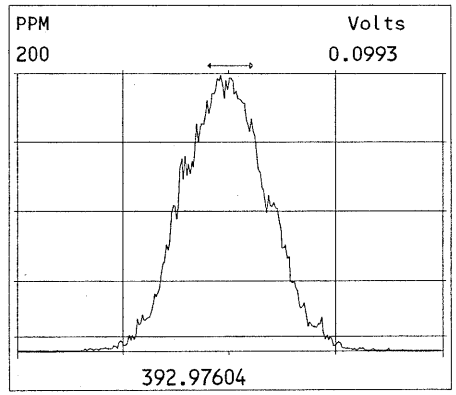


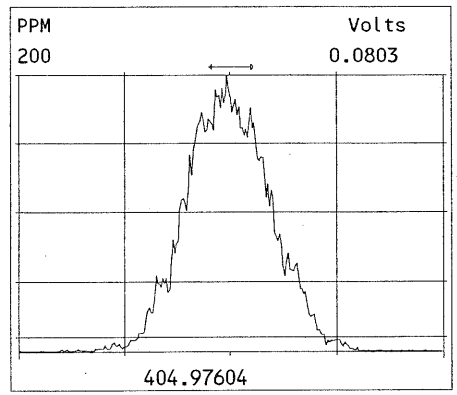


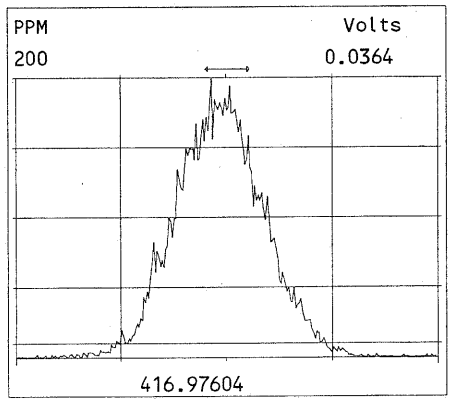


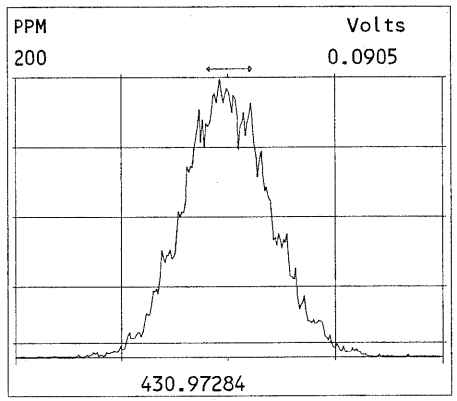


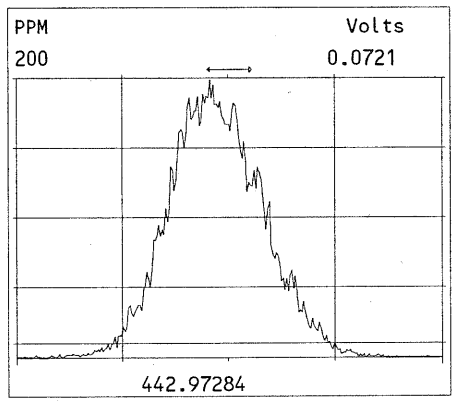




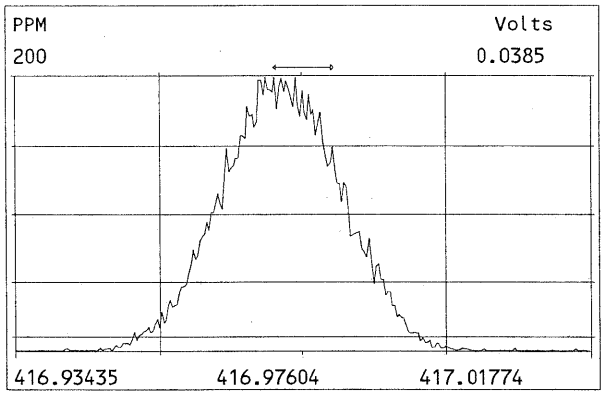


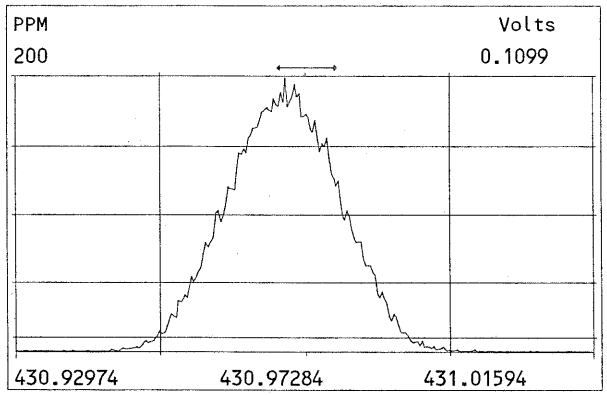


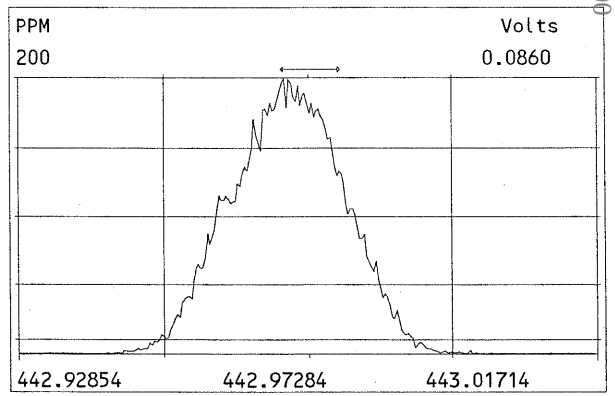


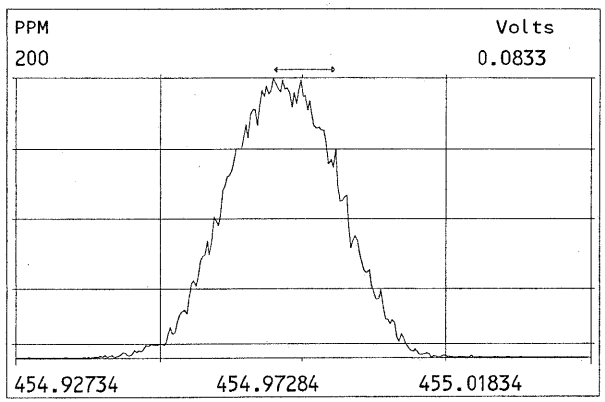


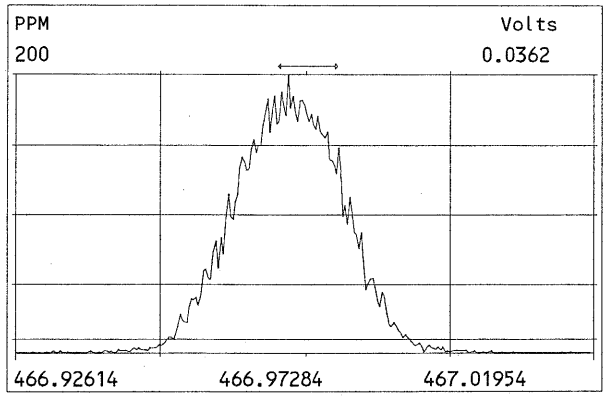
Peak Locate Examination:24-JUL-2018:12:04 File:24JUL18Z
Experiment:1668PCB Function:6 Reference:PFK

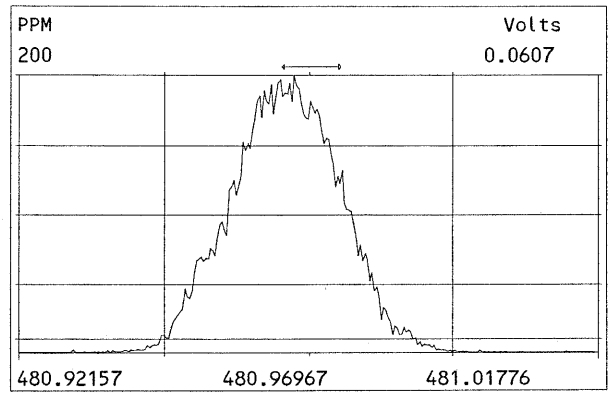


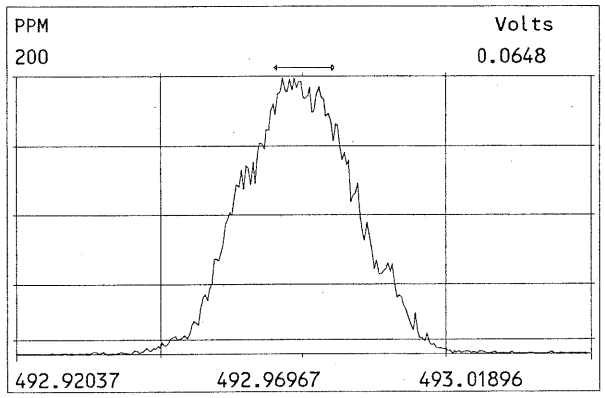


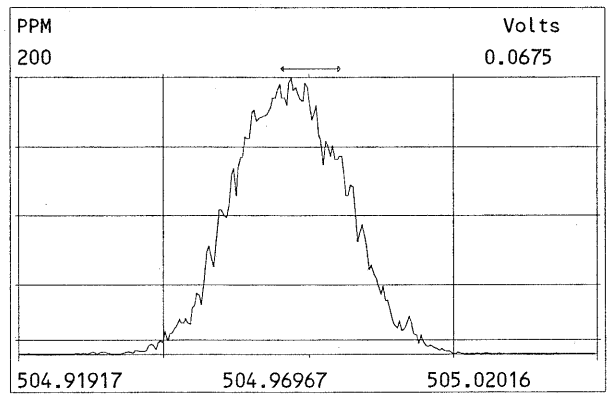


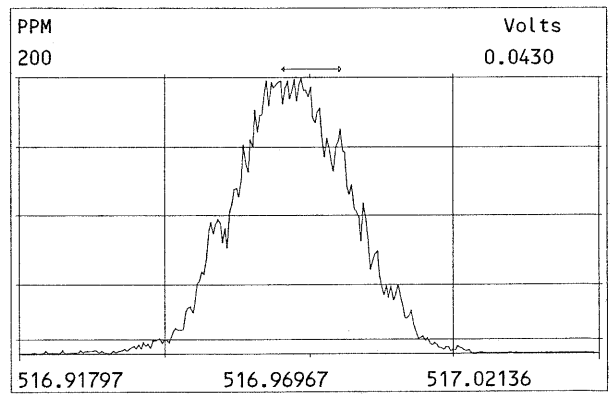












File:24JUL18Z #1-404 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:5 Exp:1668PCB
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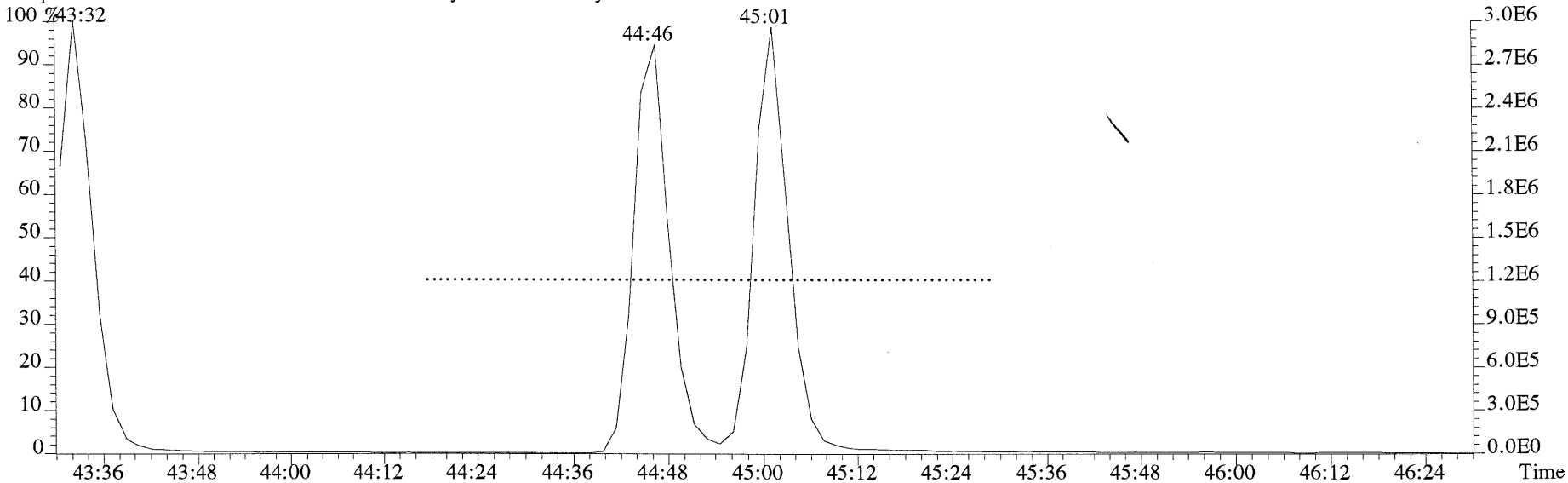

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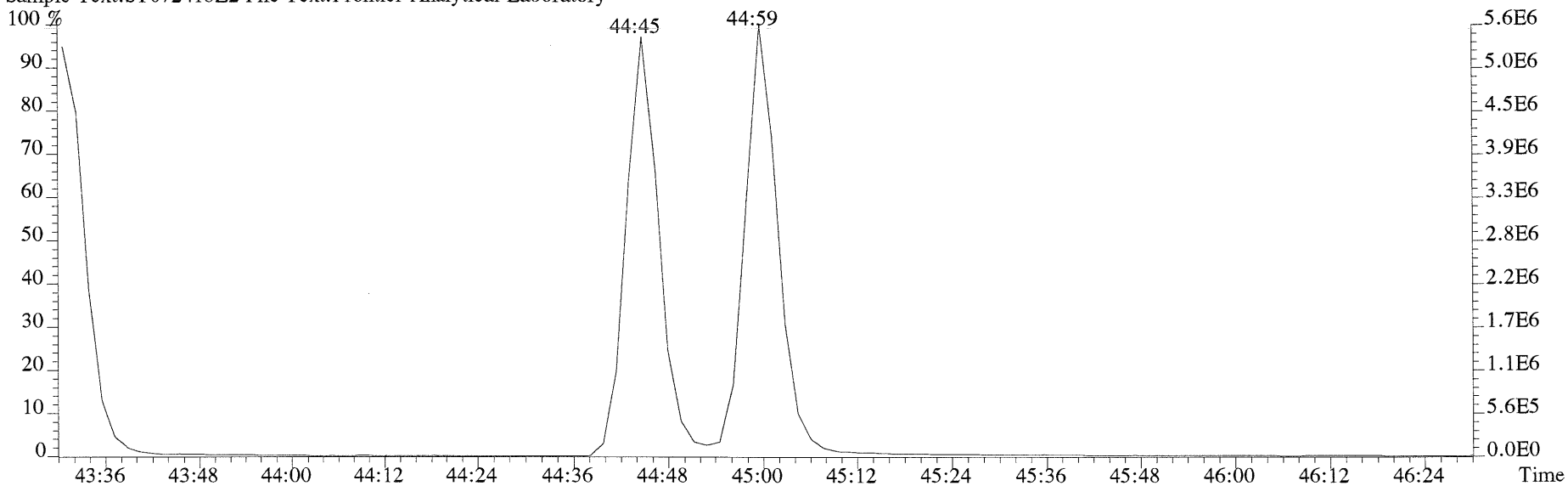
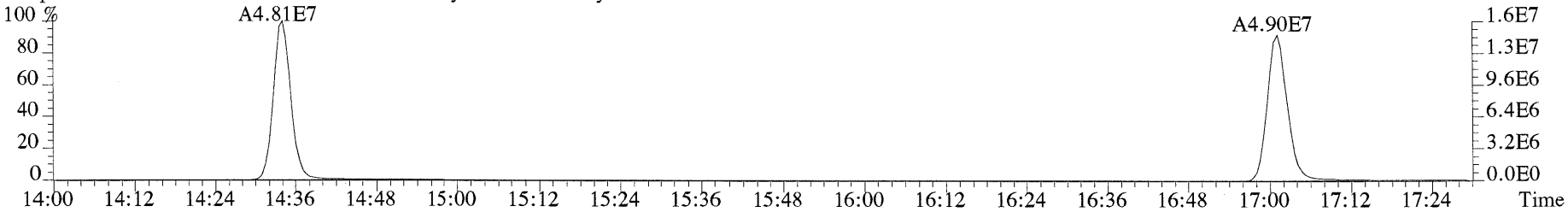
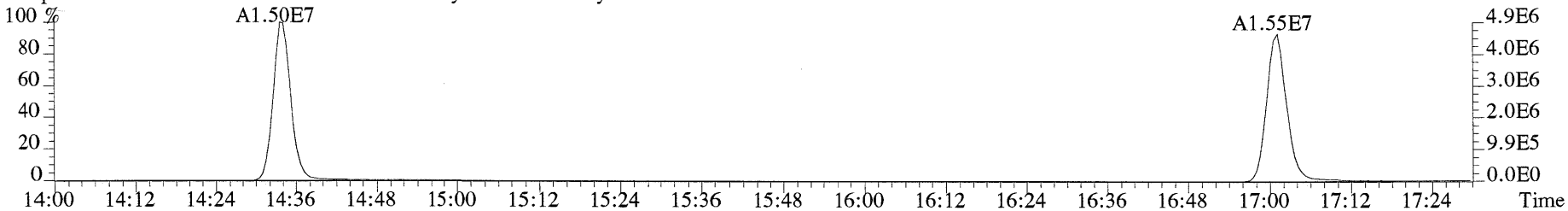


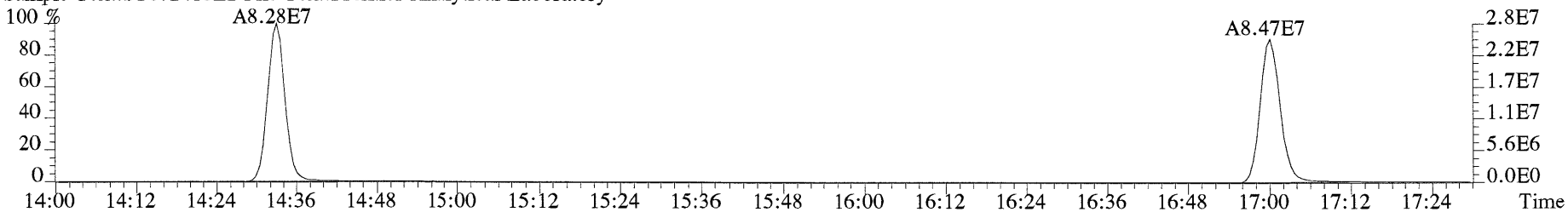
File:24JUL18Z #1-783 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



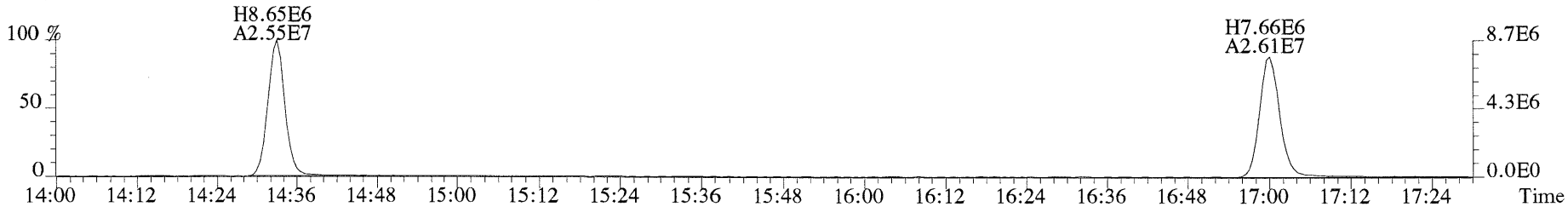
File:24JUL18Z #1-783 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



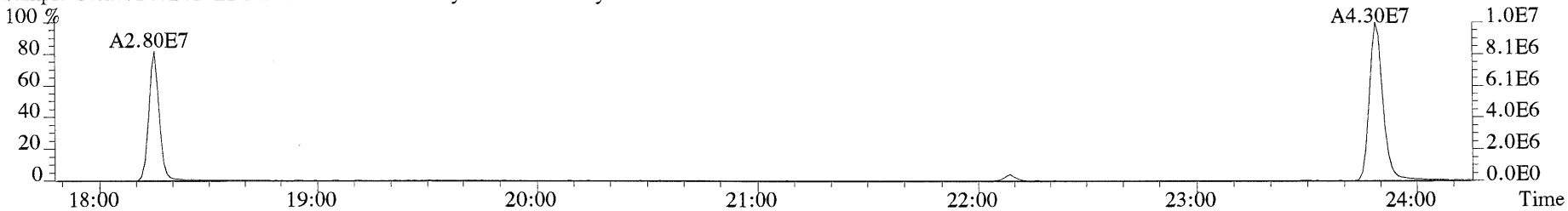
File:24JUL18Z #1-783 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



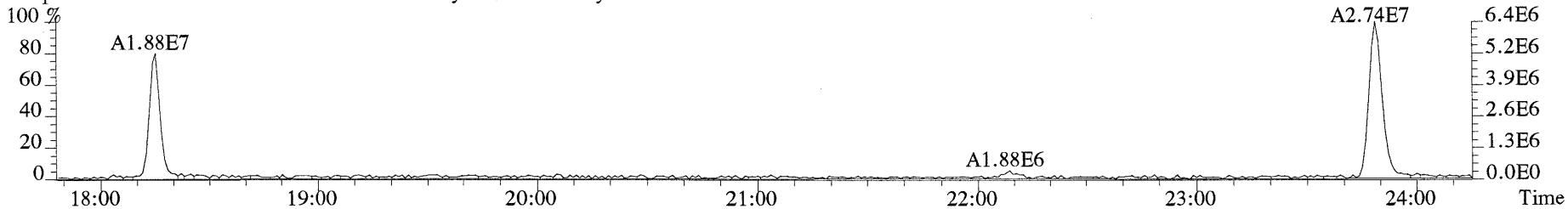
File:24JUL18Z #1-783 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



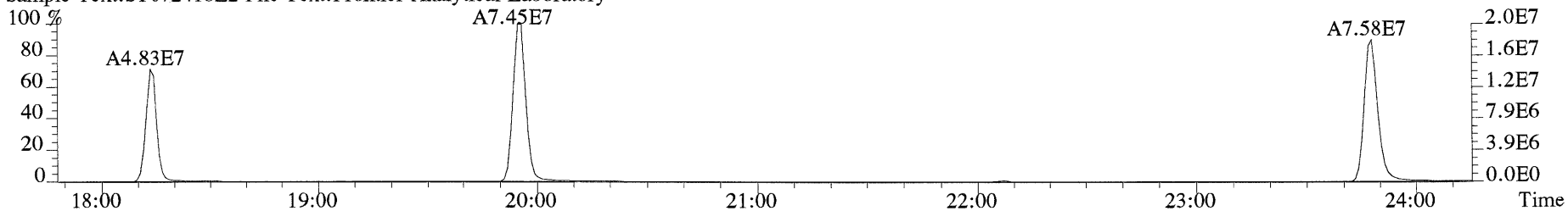
File:24JUL18Z #1-520 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



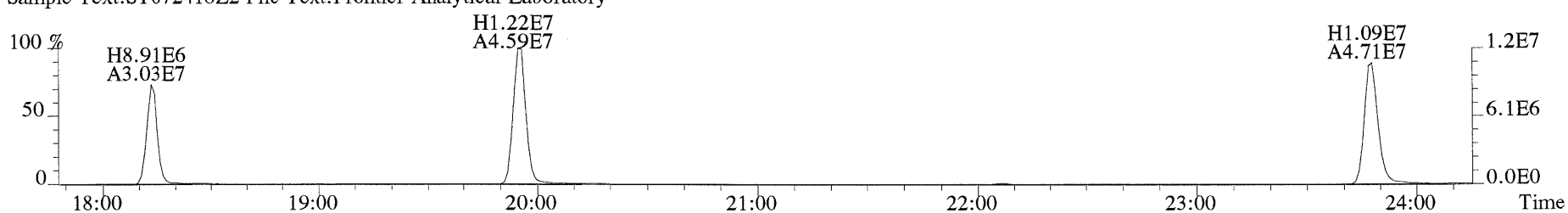
File:24JUL18Z #1-520 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



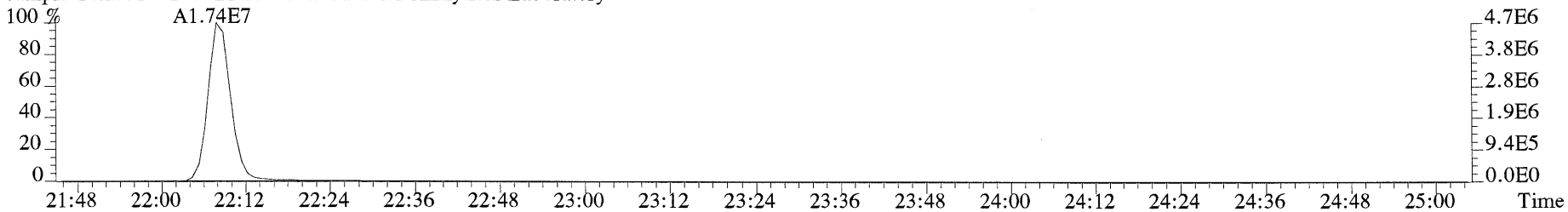
File:24JUL18Z #1-520 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



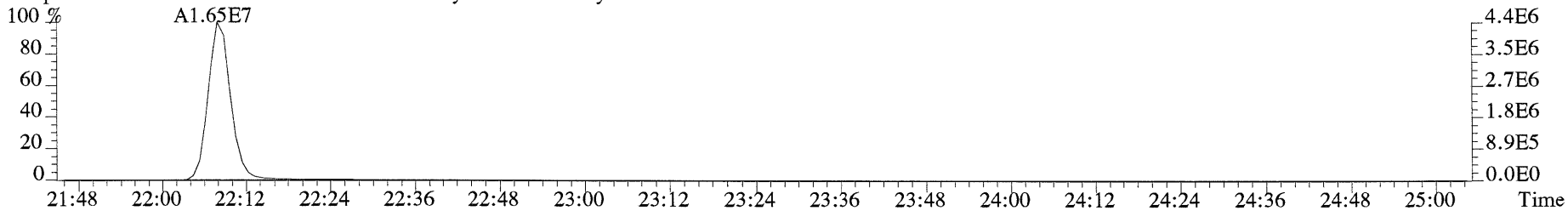
File:24JUL18Z #1-520 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



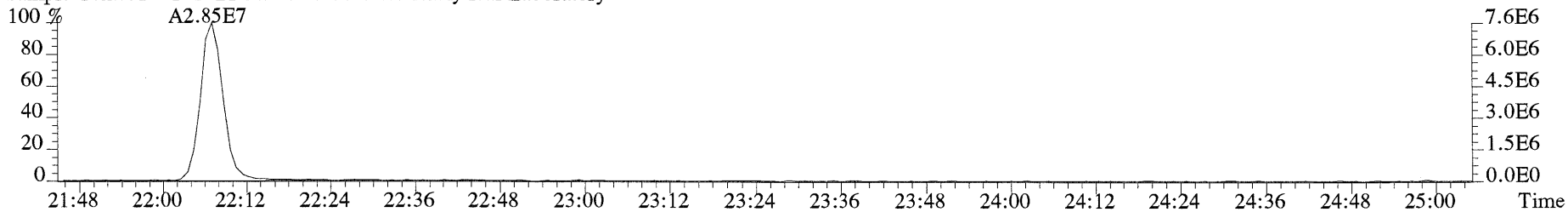
File:24JUL18Z #1-520 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



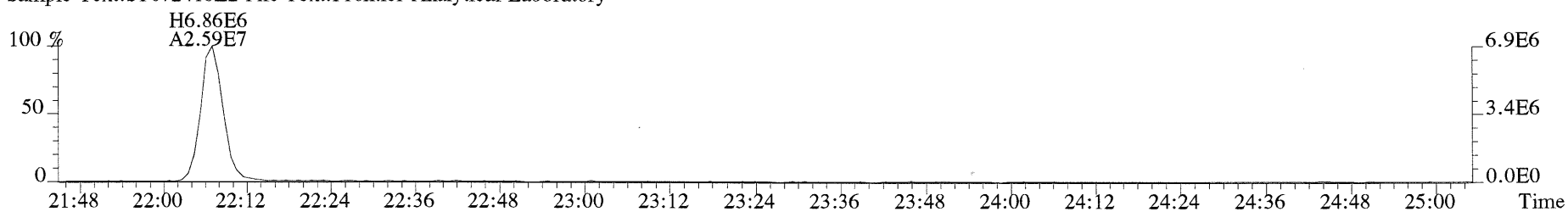
File:24JUL18Z #1-520 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



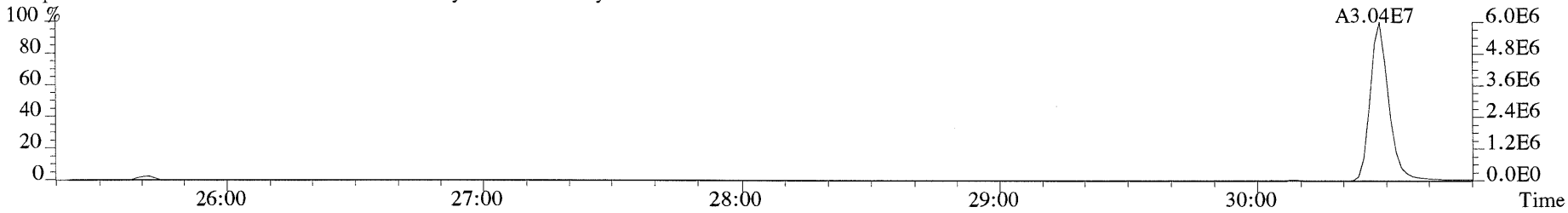
File:24JUL18Z #1-520 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



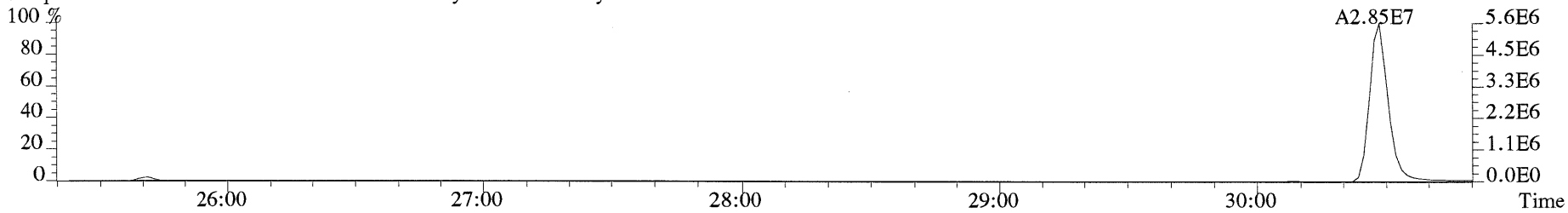
File:24JUL18Z #1-520 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



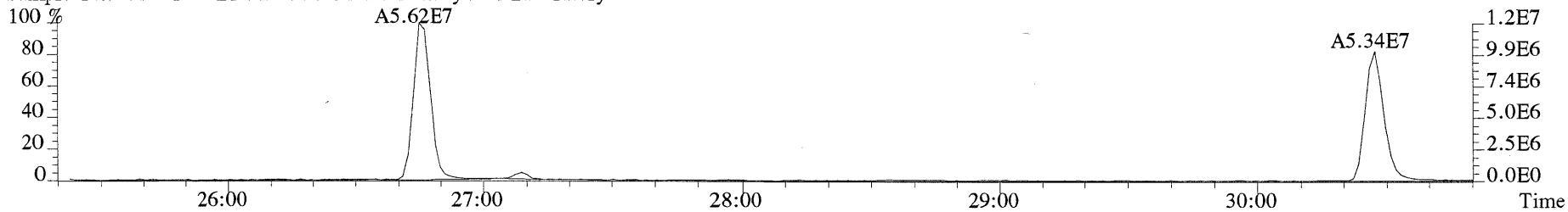
File:24JUL18Z #1-401 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



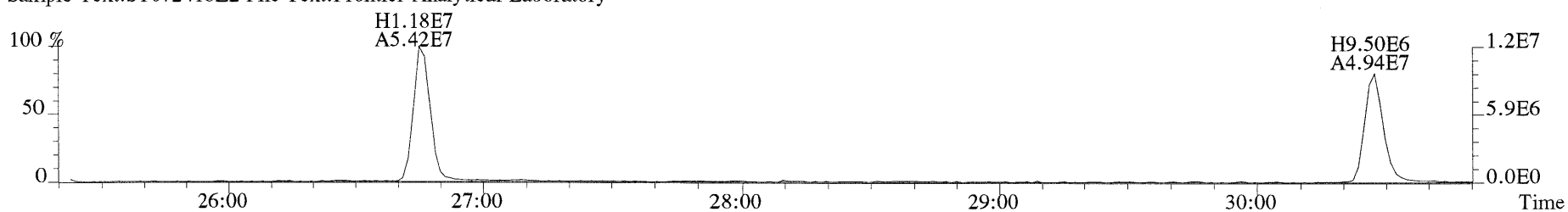
File:24JUL18Z #1-401 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



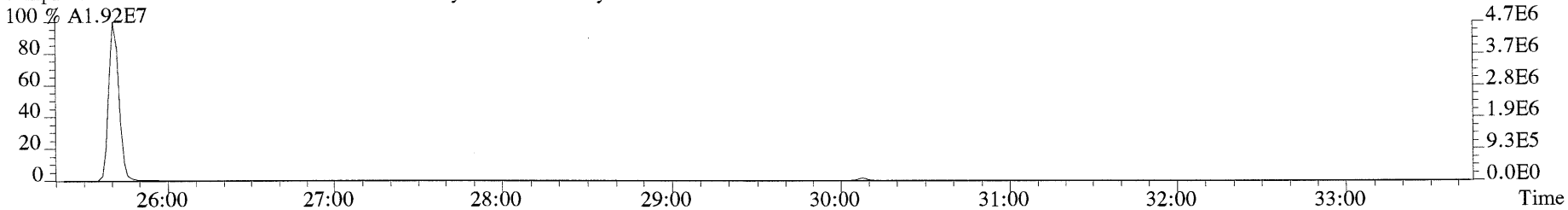
File:24JUL18Z #1-401 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



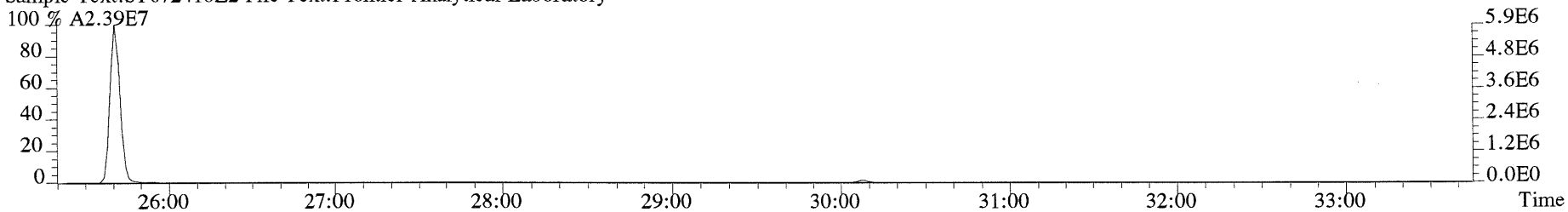
File:24JUL18Z #1-401 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



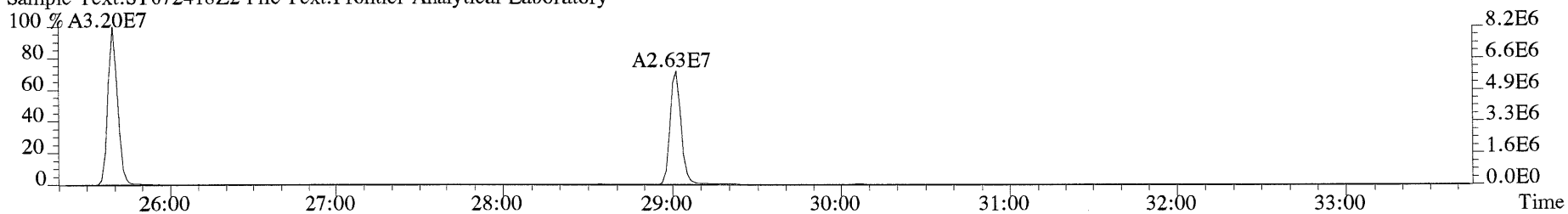
File:24JUL18Z #1-401 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



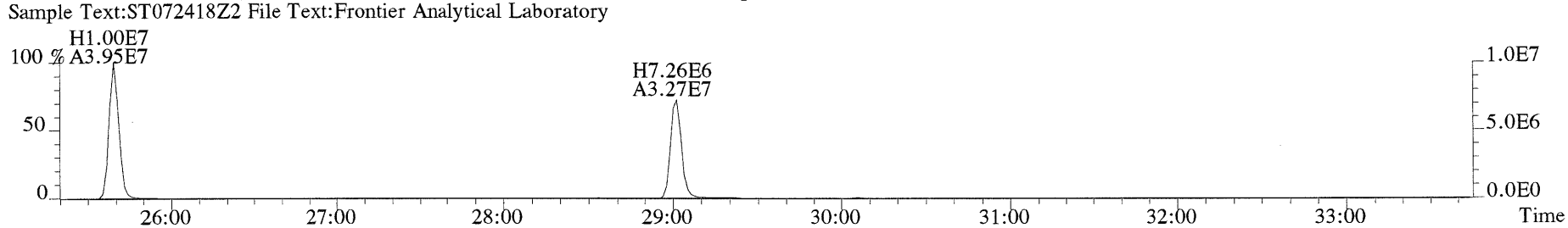
File:24JUL18Z #1-401 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



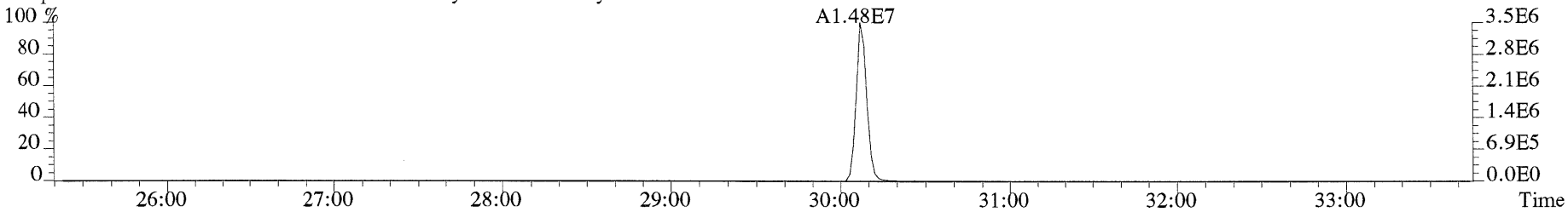
File:24JUL18Z #1-401 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



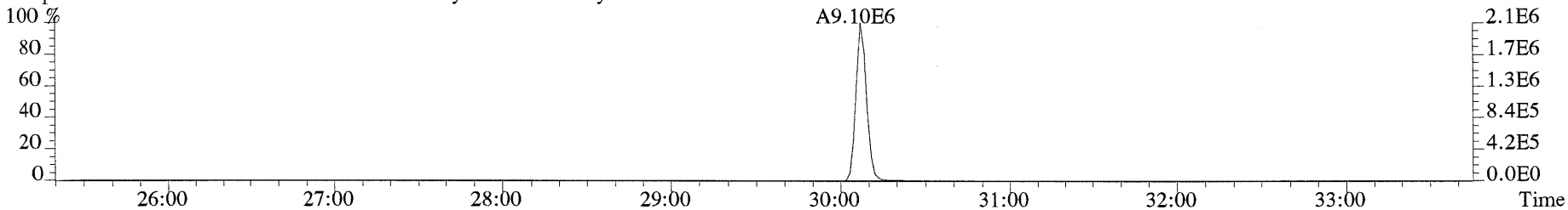
File:24JUL18Z #1-401 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



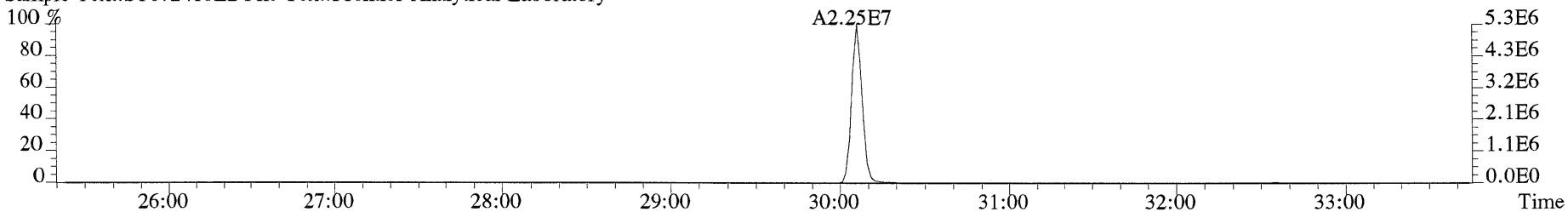
File:24JUL18Z #1-401 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



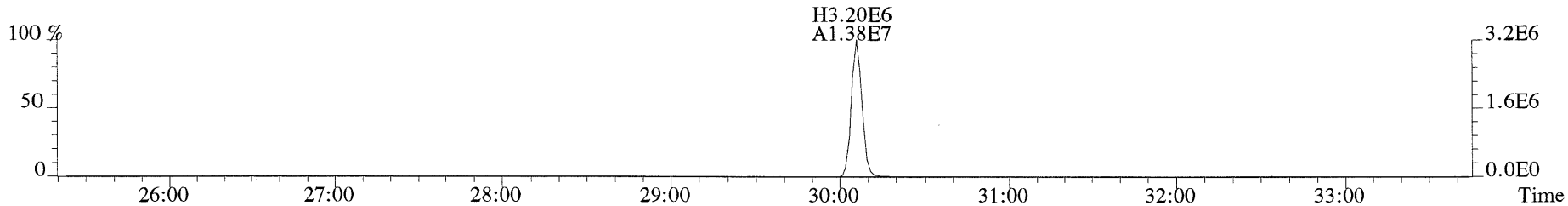
File:24JUL18Z #1-401 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



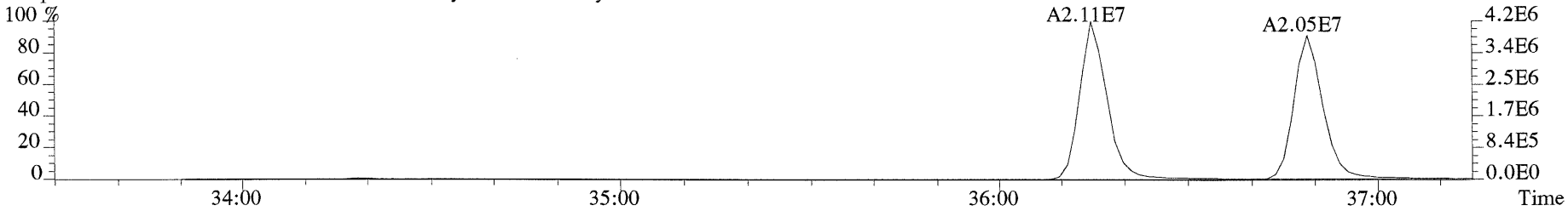
File:24JUL18Z #1-401 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



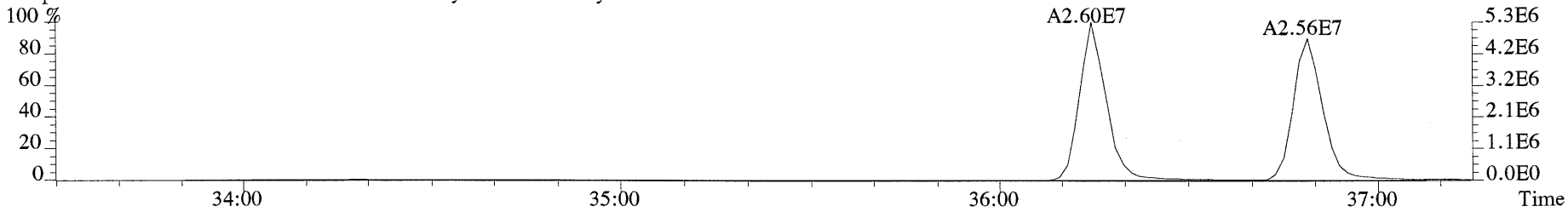
File:24JUL18Z #1-401 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



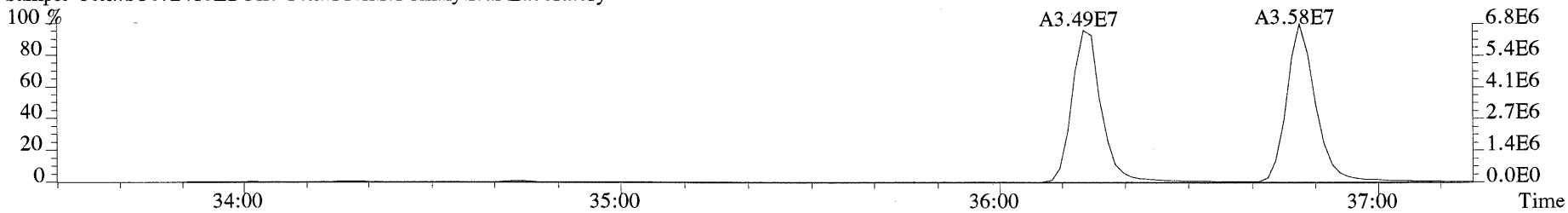
File:24JUL18Z #1-183 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



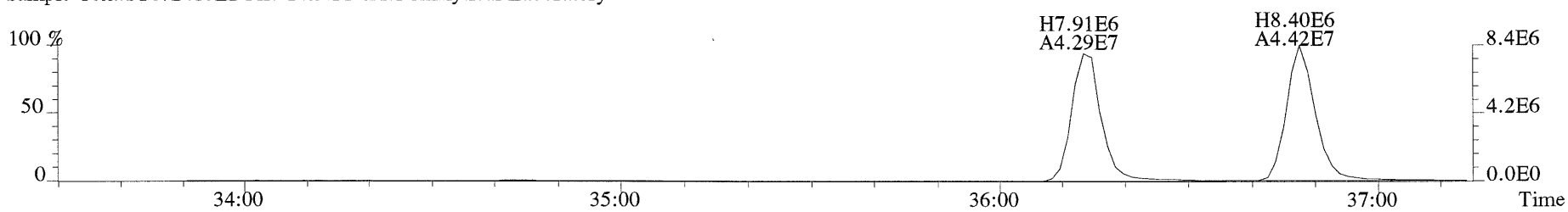
File:24JUL18Z #1-183 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



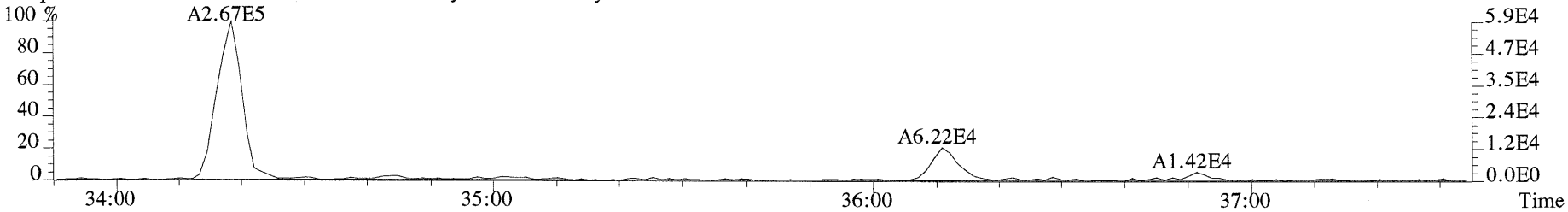
File:24JUL18Z #1-183 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



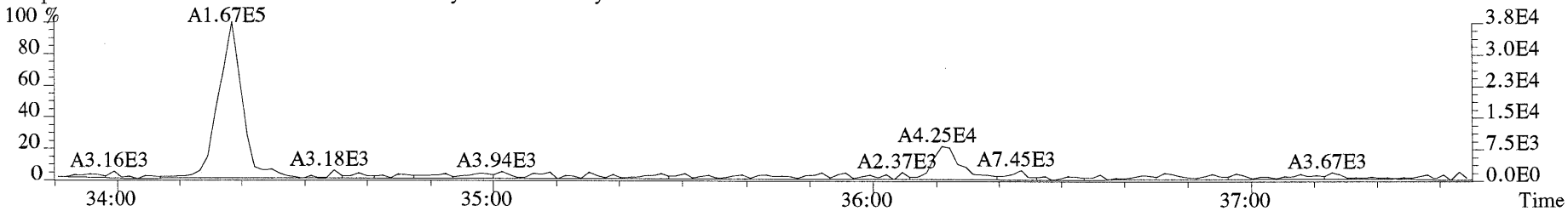
File:24JUL18Z #1-183 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



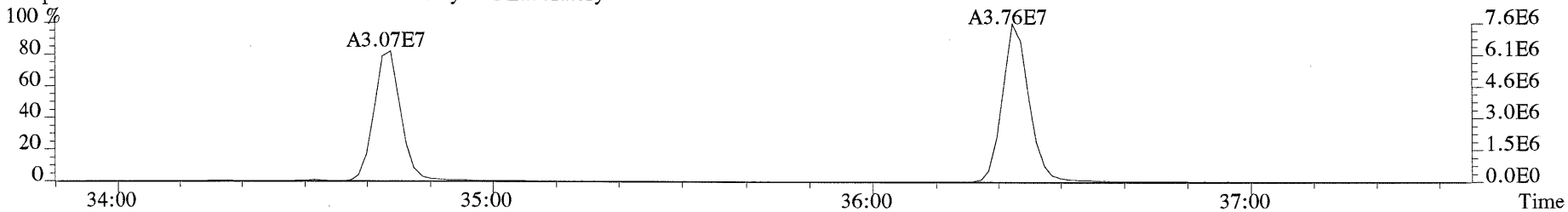
File:24JUL18Z #1-183 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



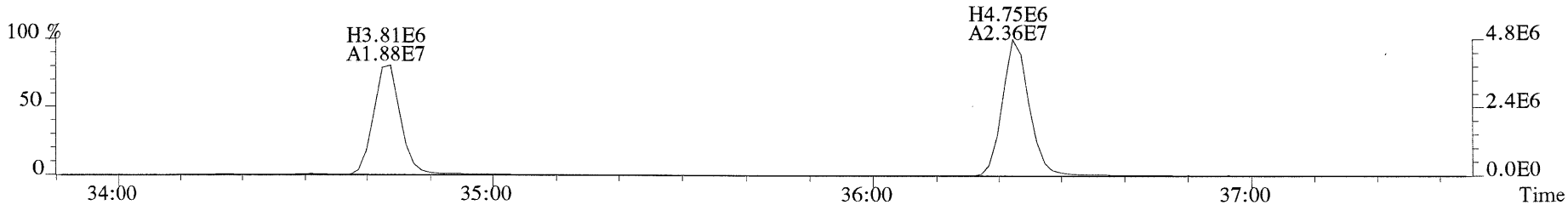
File:24JUL18Z #1-183 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



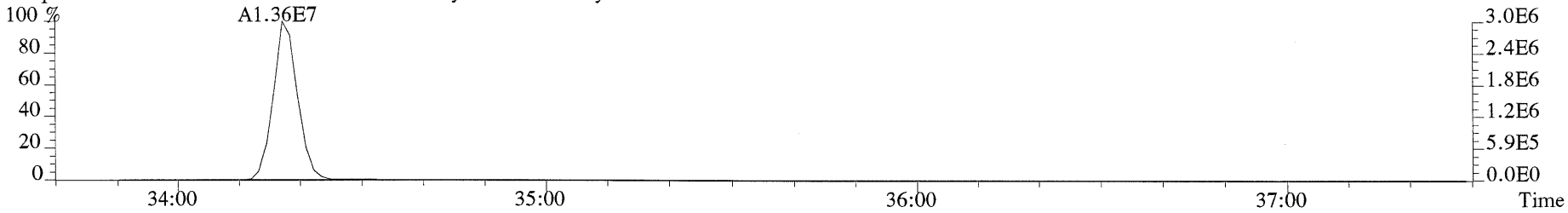
File:24JUL18Z #1-183 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



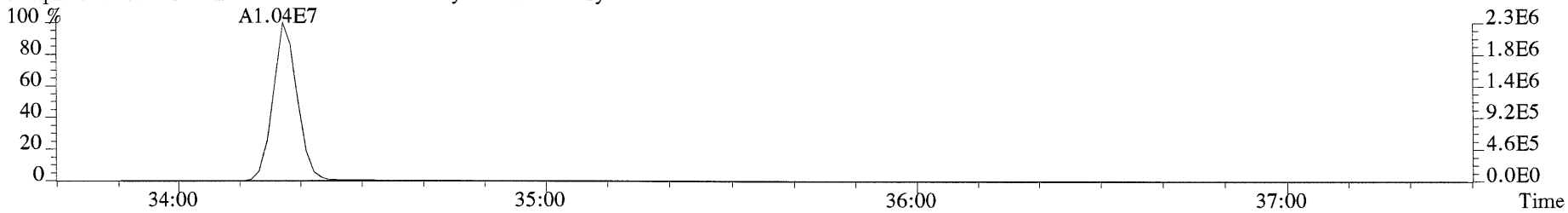
File:24JUL18Z #1-183 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



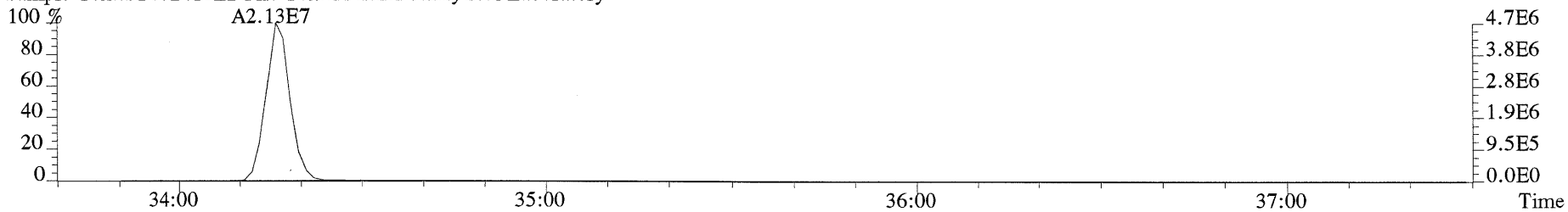
File:24JUL18Z #1-183 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



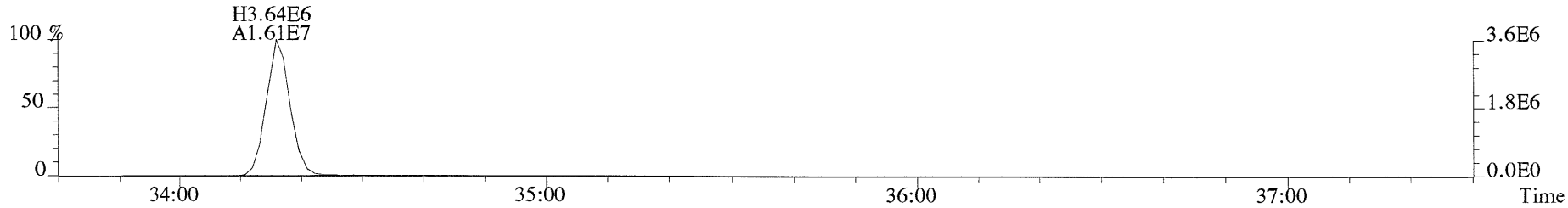
File:24JUL18Z #1-183 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



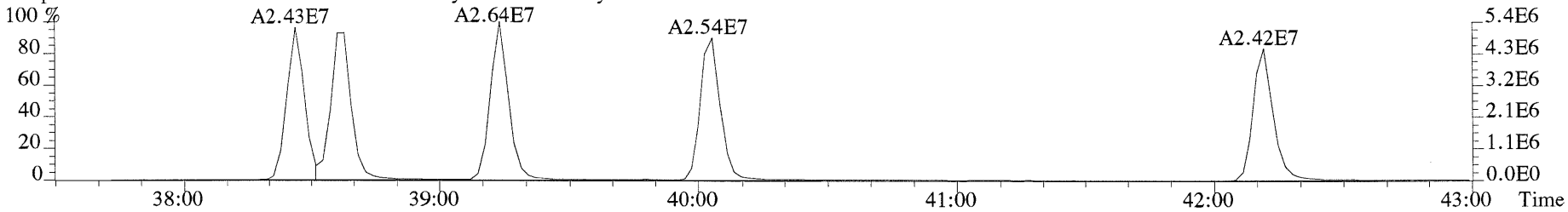
File:24JUL18Z #1-183 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



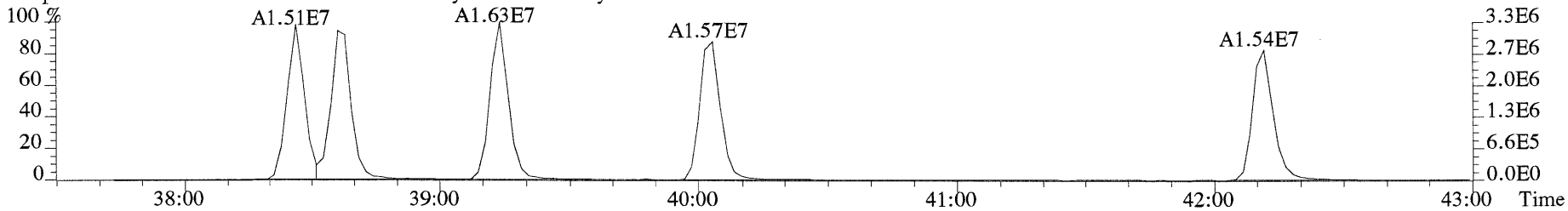
File:24JUL18Z #1-183 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



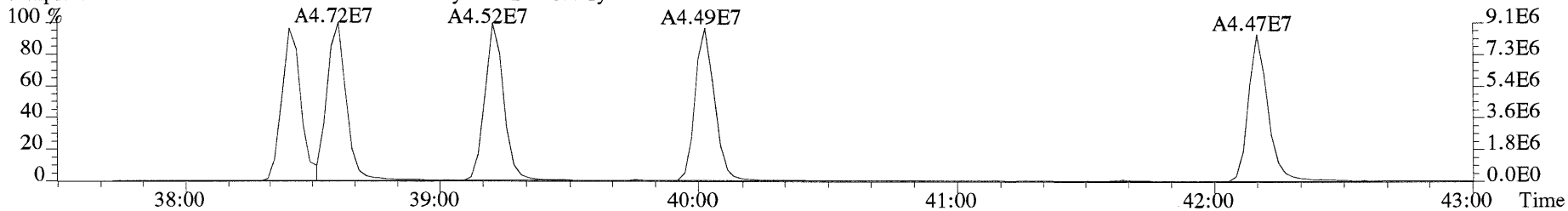
File:24JUL18Z #1-404 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



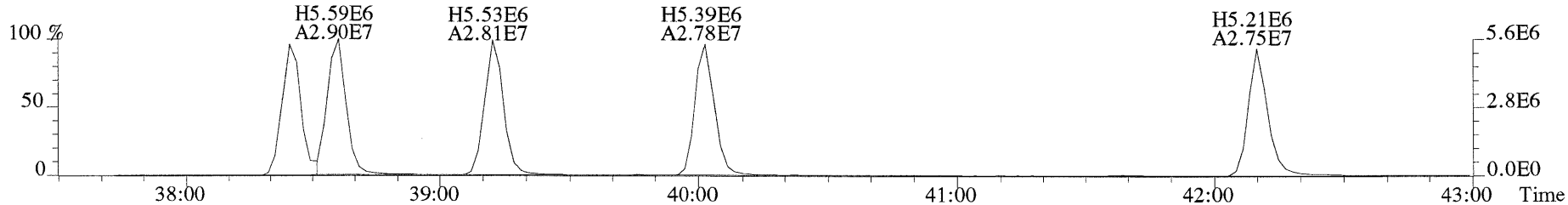
File:24JUL18Z #1-404 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



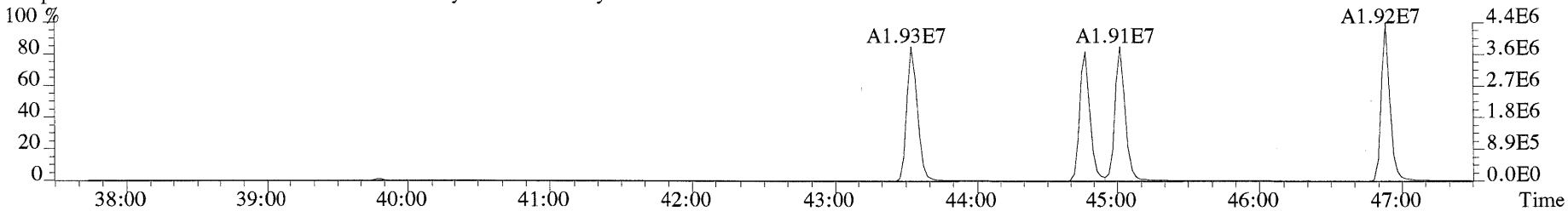
File:24JUL18Z #1-404 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



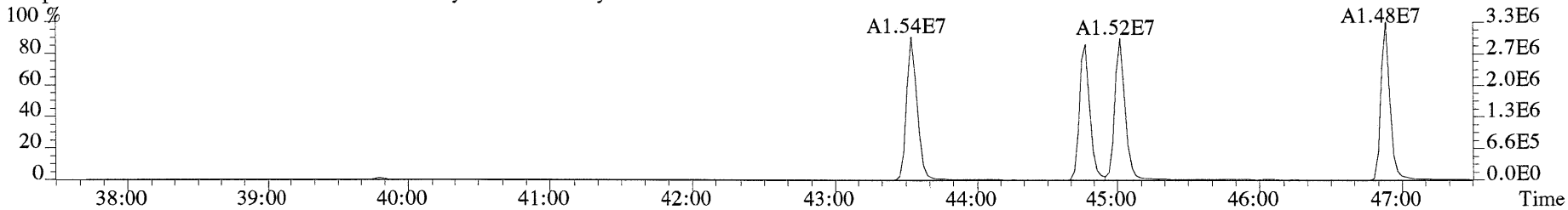
File:24JUL18Z #1-404 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



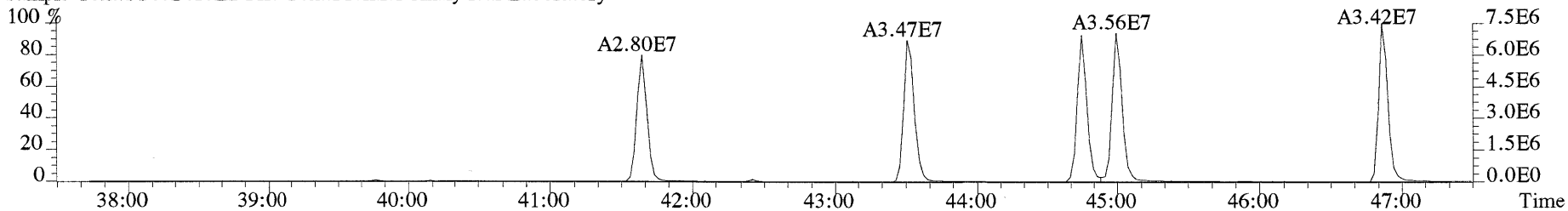
File:24JUL18Z #1-404 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



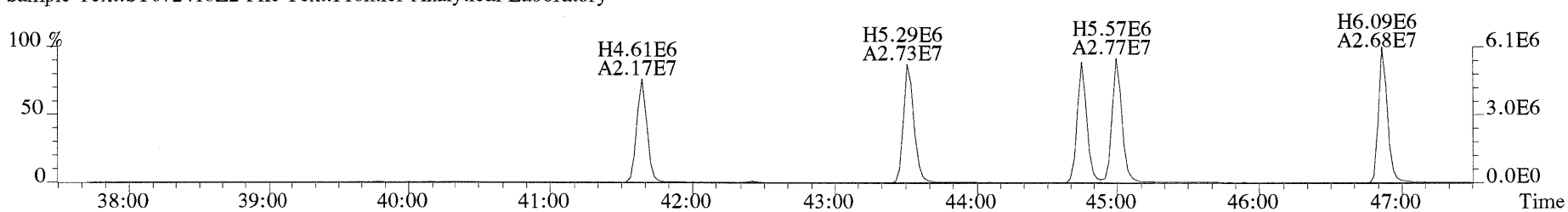
File:24JUL18Z #1-404 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



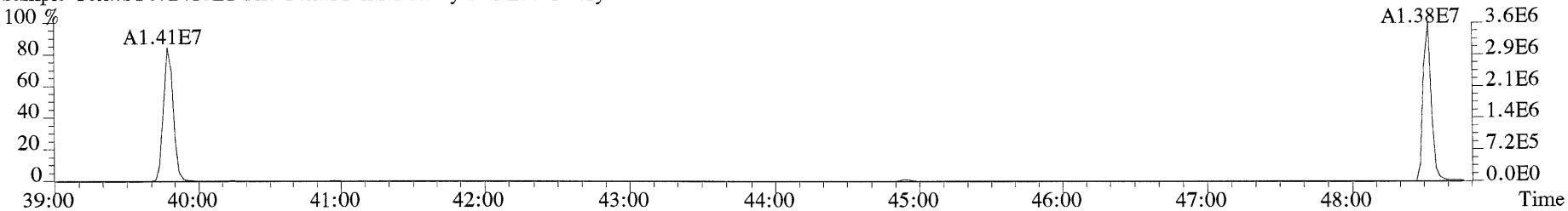
File:24JUL18Z #1-404 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



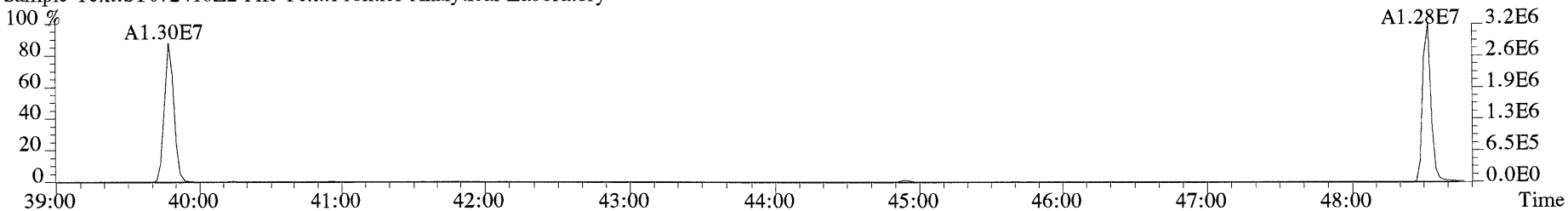
File:24JUL18Z #1-404 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



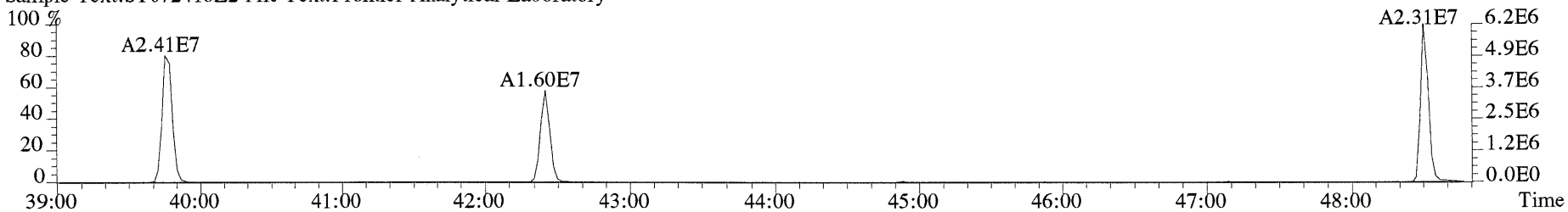
File:24JUL18Z #1-404 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



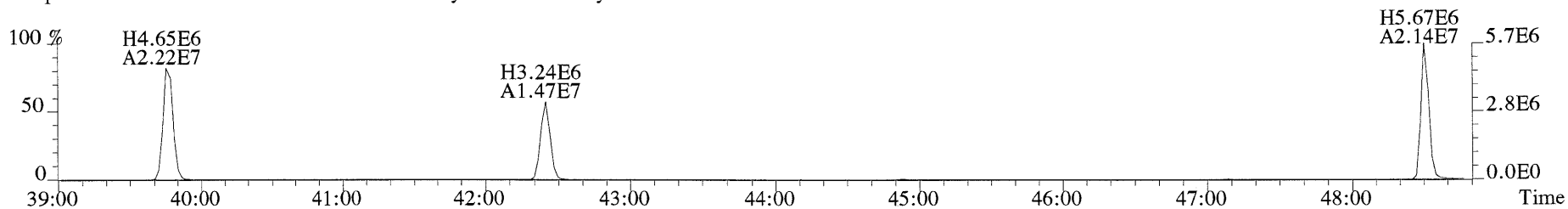
File:24JUL18Z #1-404 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



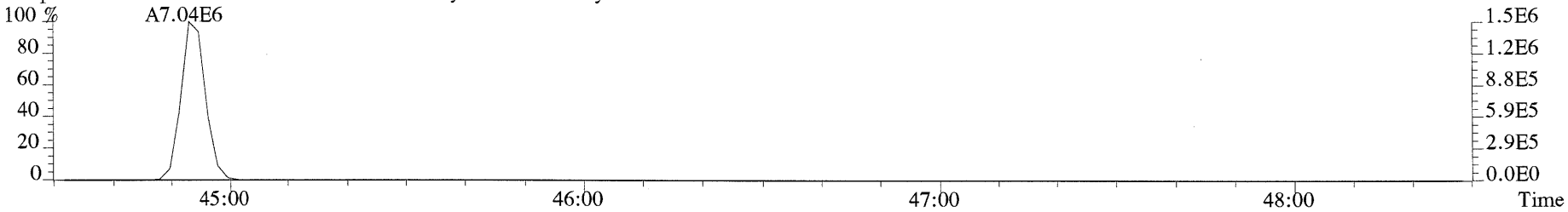
File:24JUL18Z #1-404 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



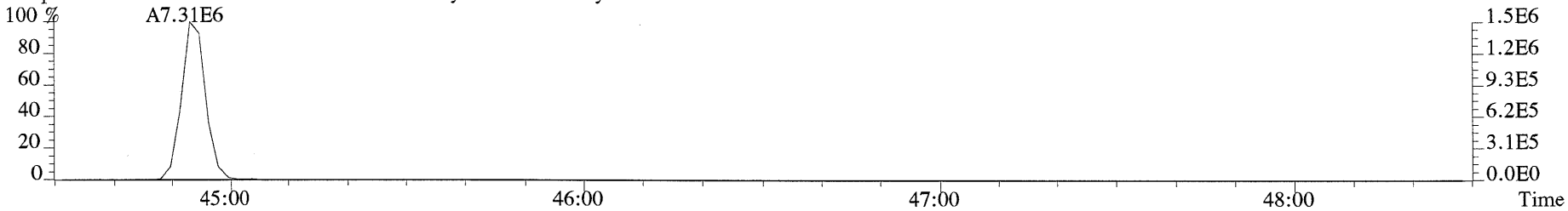
File:24JUL18Z #1-404 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



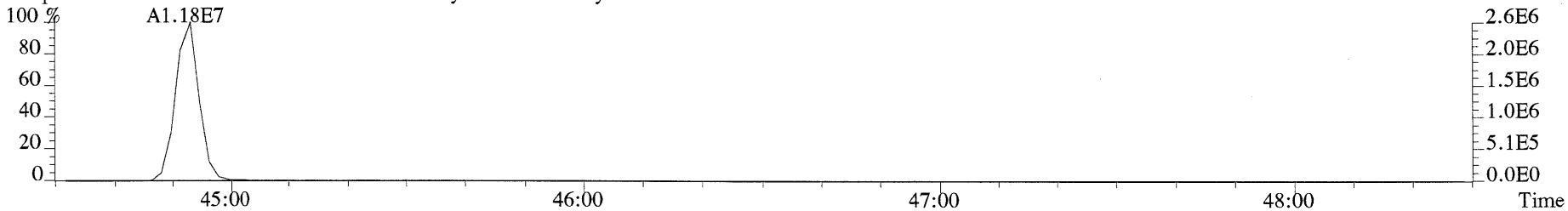
File:24JUL18Z #1-404 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



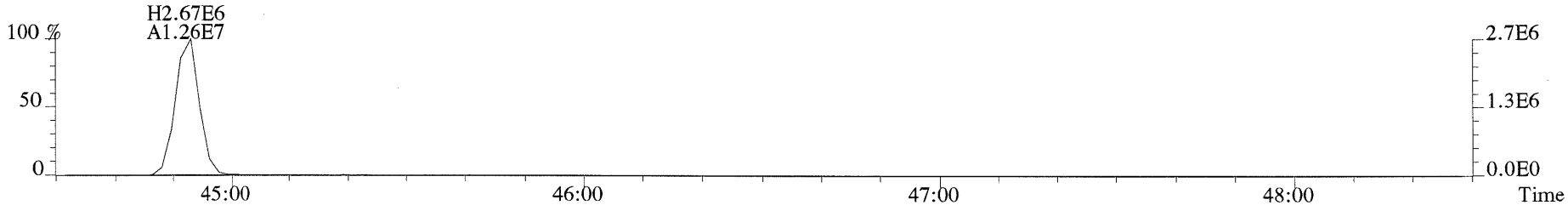
File:24JUL18Z #1-404 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



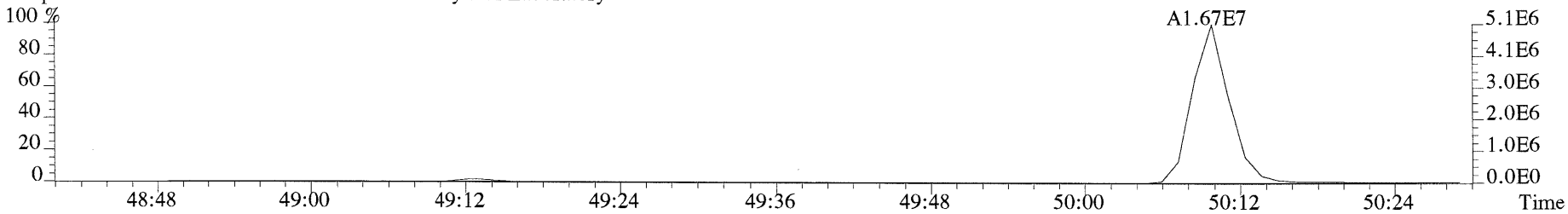
File:24JUL18Z #1-404 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



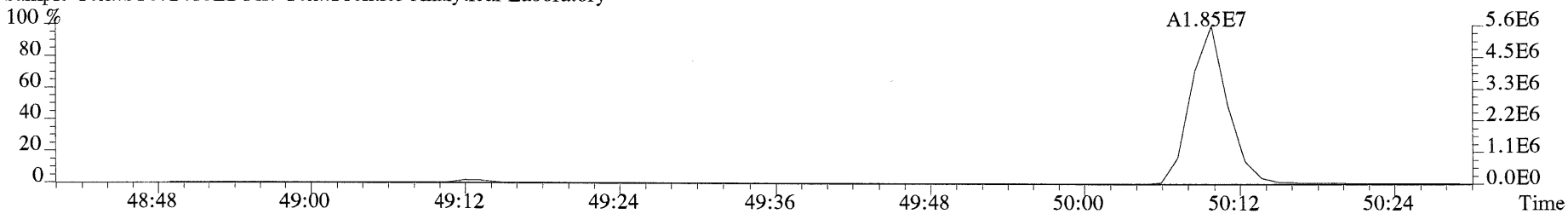
File:24JUL18Z #1-404 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



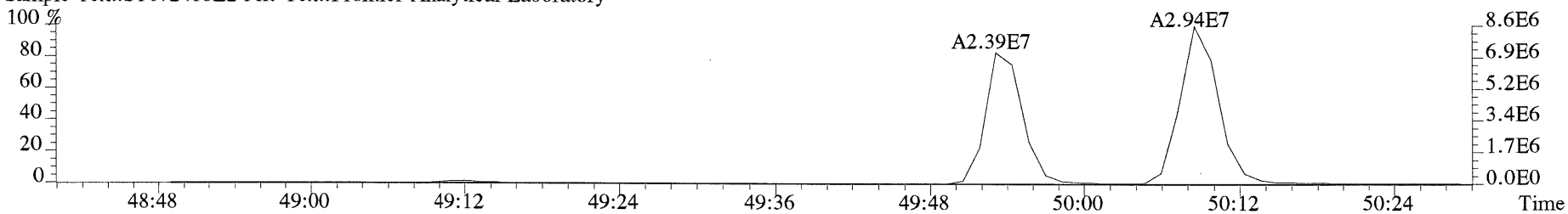
File:24JUL18Z #1-314 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



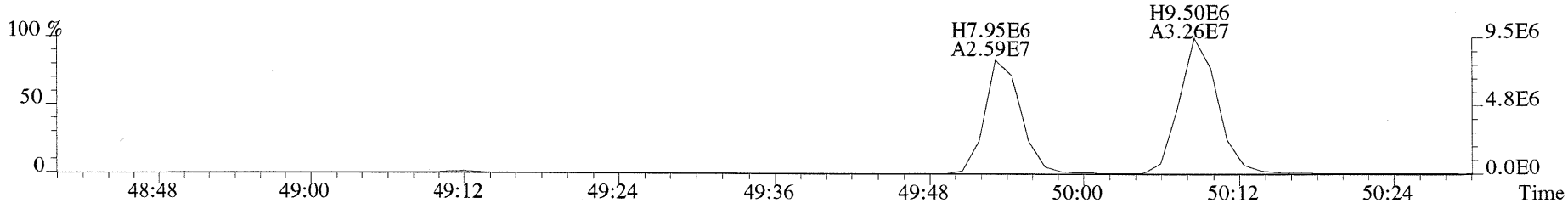
File:24JUL18Z #1-314 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



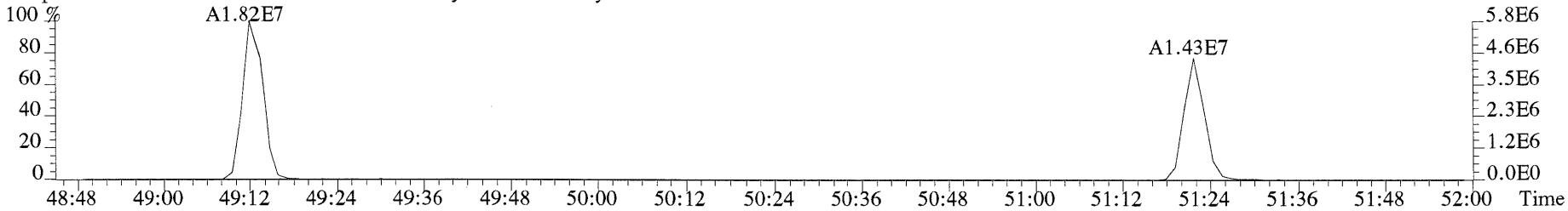
File:24JUL18Z #1-314 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



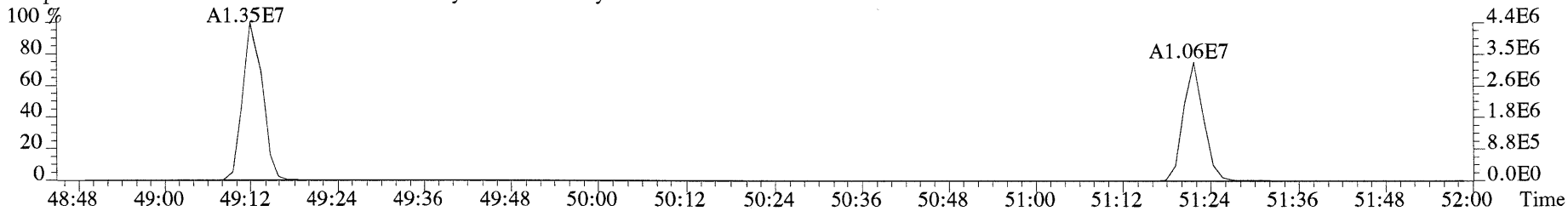
File:24JUL18Z #1-314 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



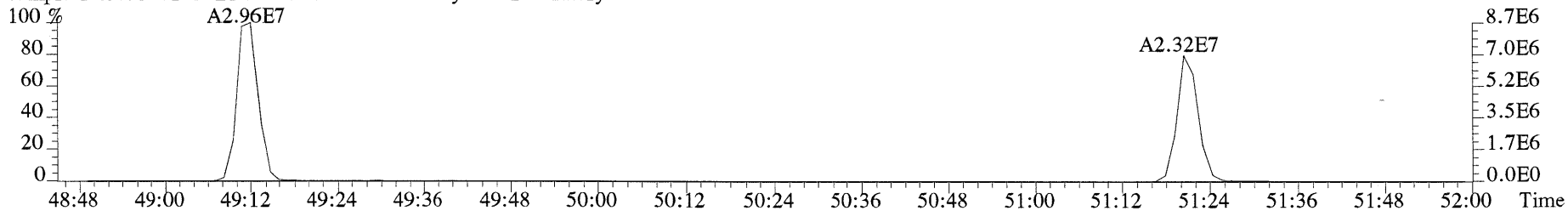
File:24JUL18Z #1-314 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



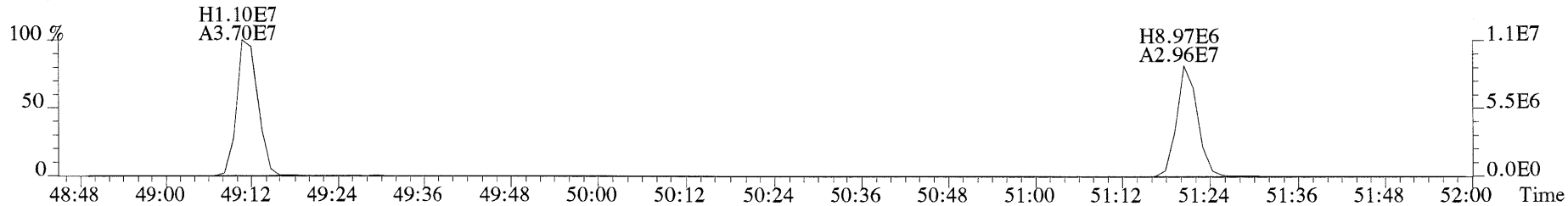
File:24JUL18Z #1-314 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



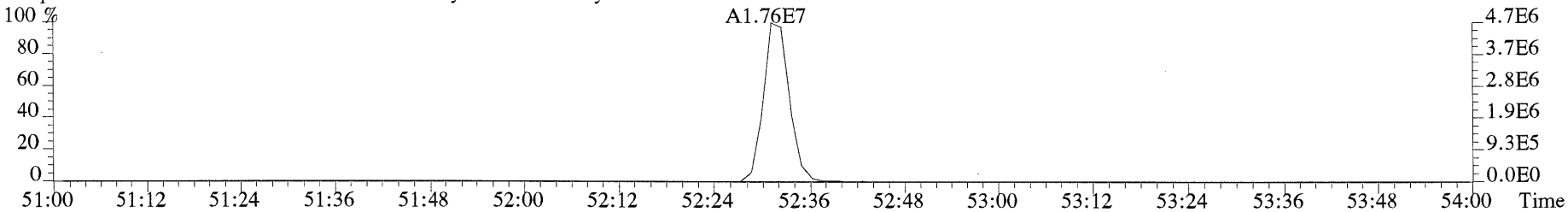
File:24JUL18Z #1-314 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



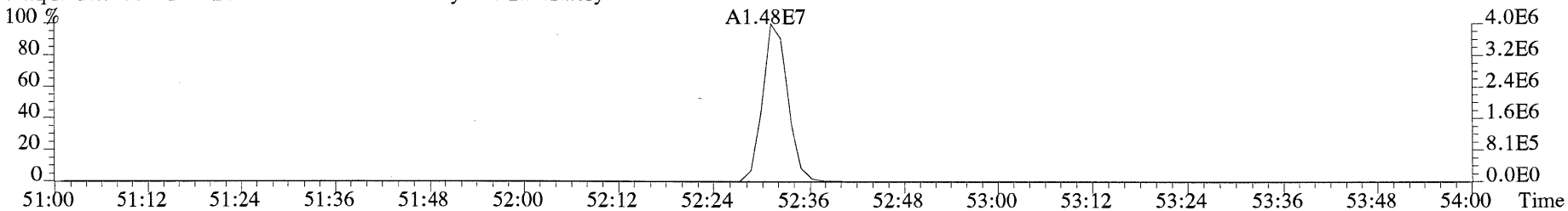
File:24JUL18Z #1-314 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



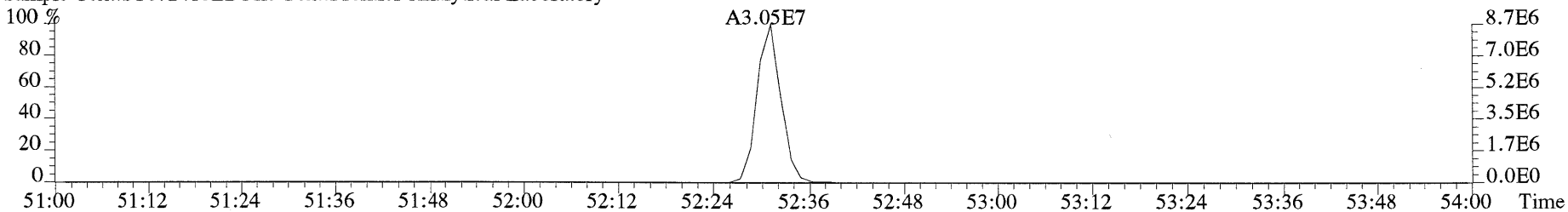
File:24JUL18Z #1-314 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



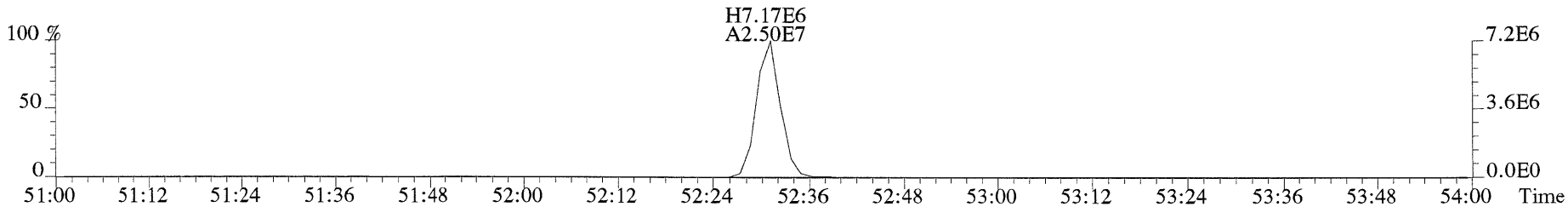
File:24JUL18Z #1-314 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory



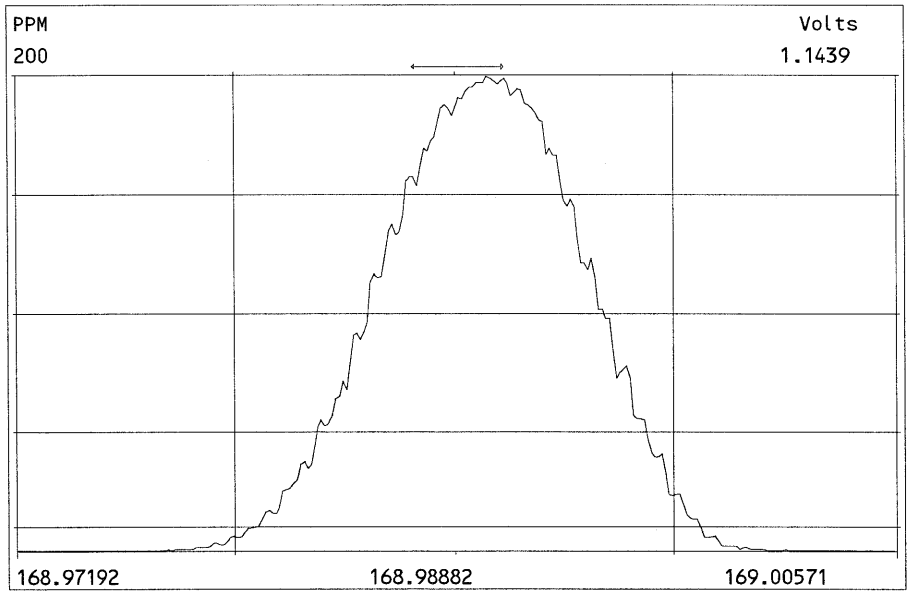
File:24JUL18Z #1-314 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory

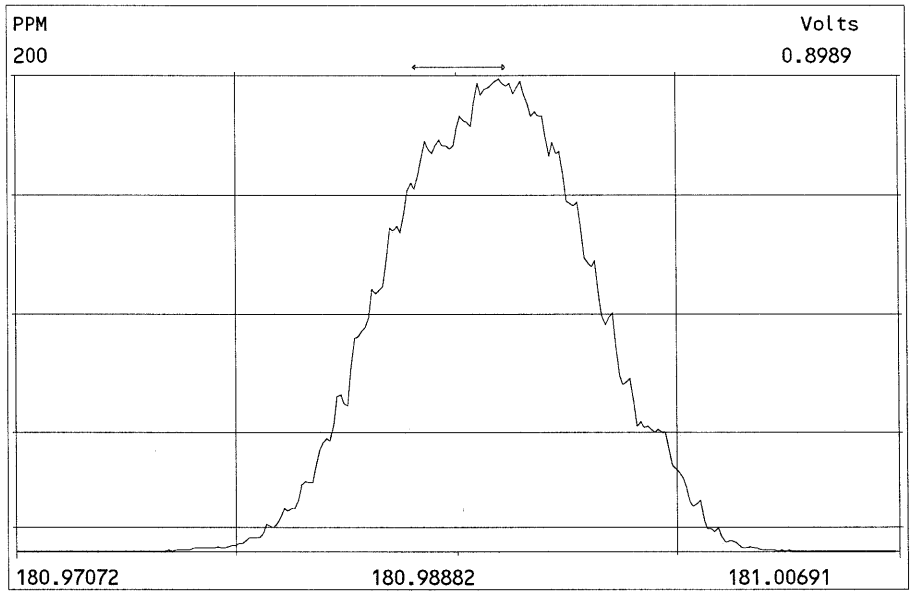


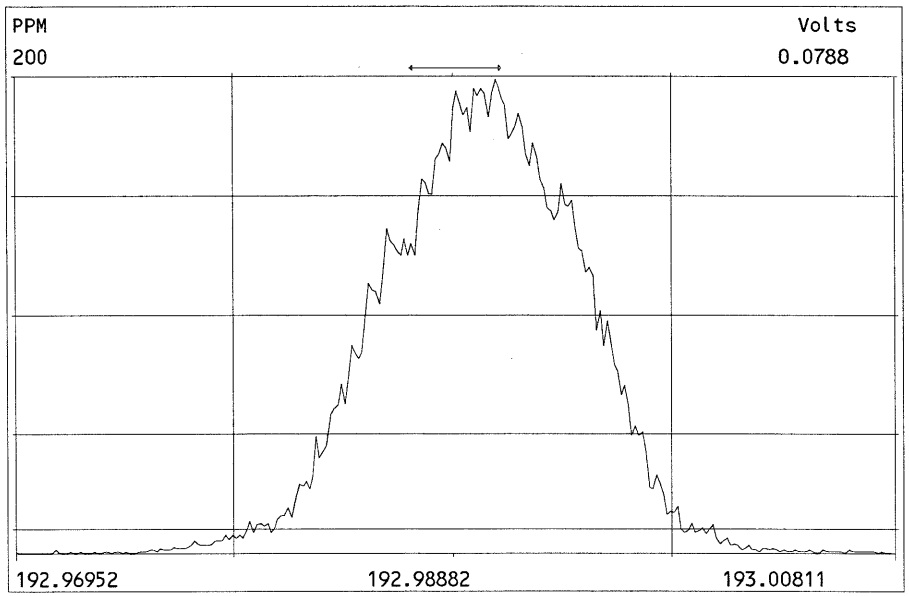
File:24JUL18Z #1-314 Acq:24-JUL-2018 22:50:29 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072418Z2 File Text:Frontier Analytical Laboratory

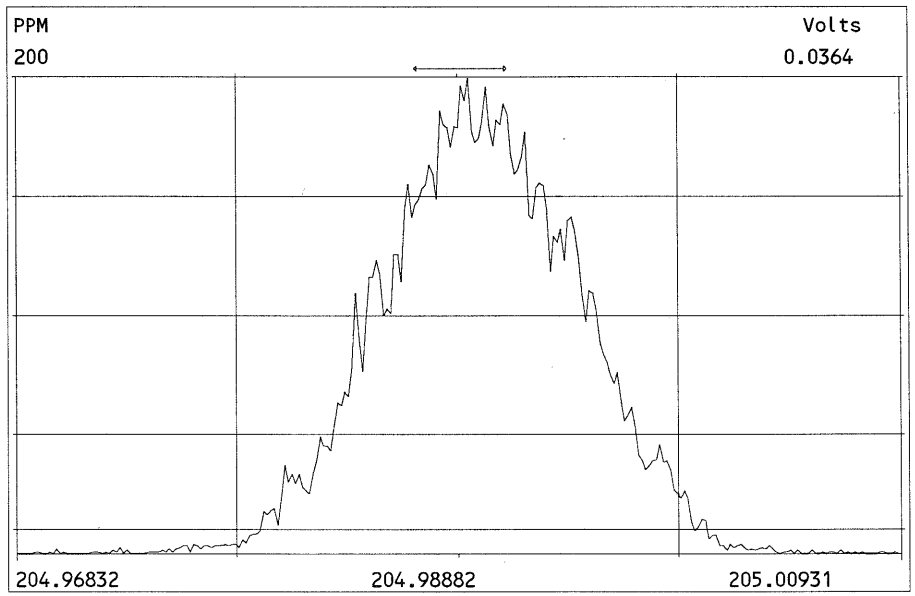


Peak Locate Examination:25-JUL-2018:00:17 File:24JUL18Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK









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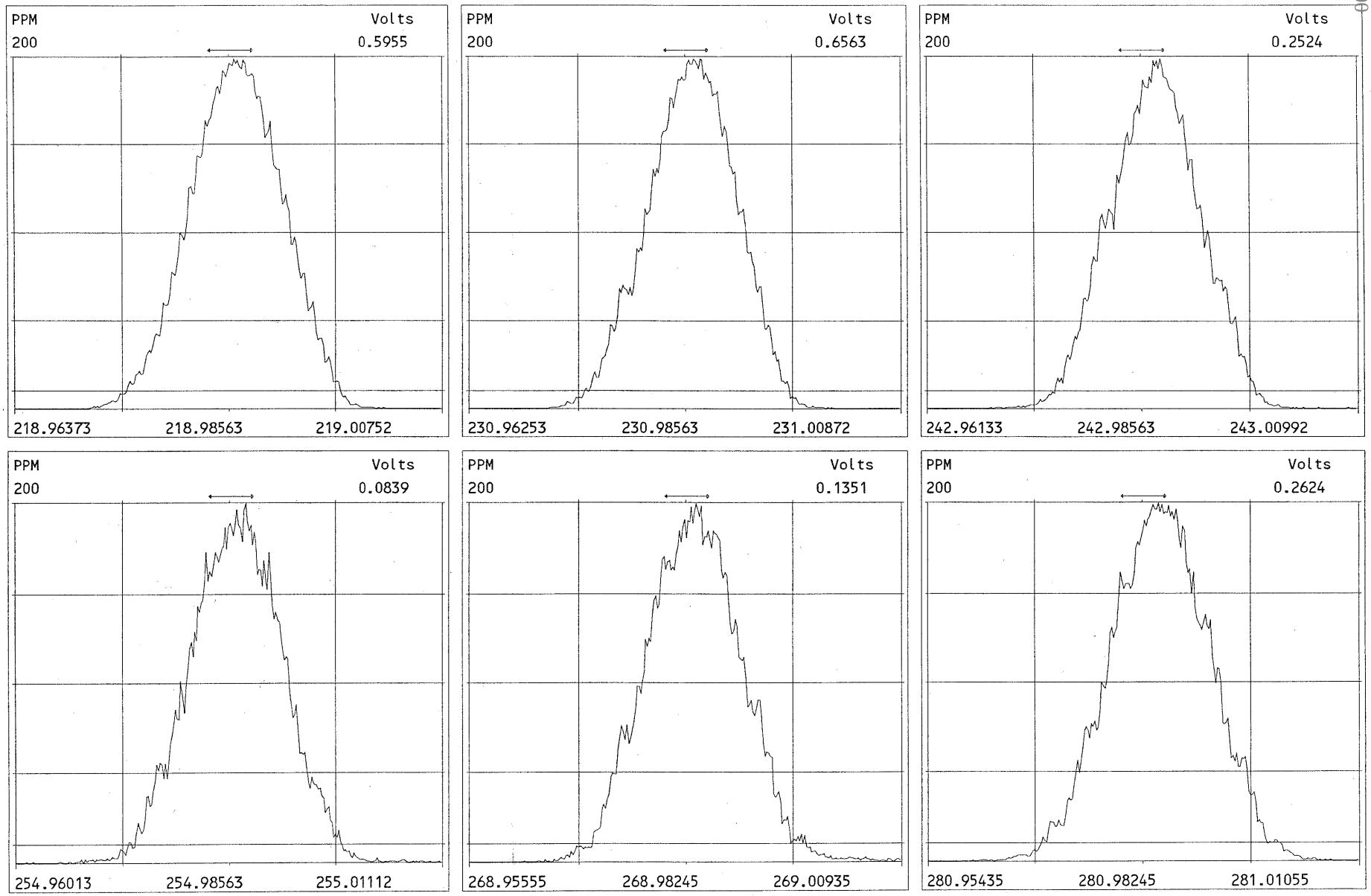
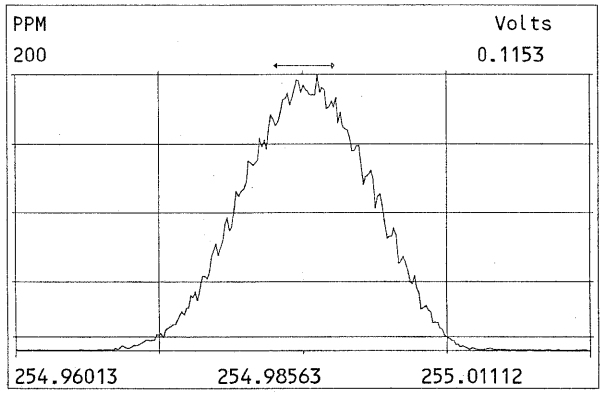
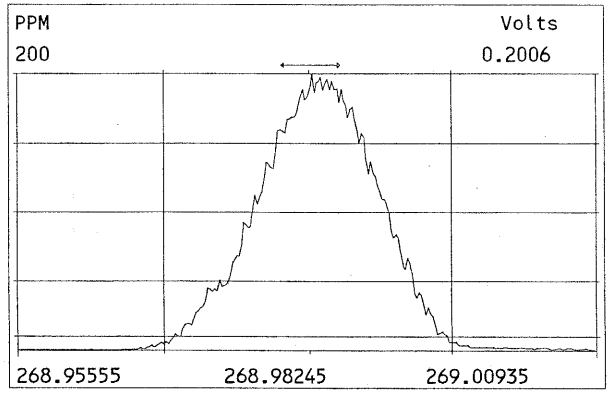
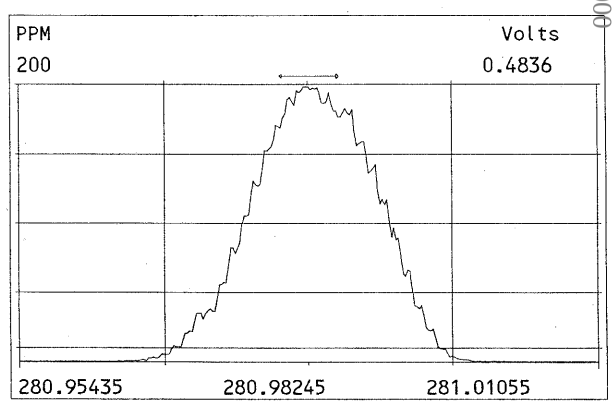
Experiment:1668PCB Function:2 Reference:PFK

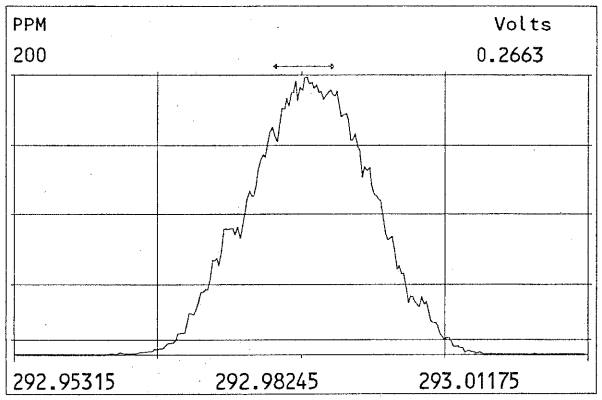


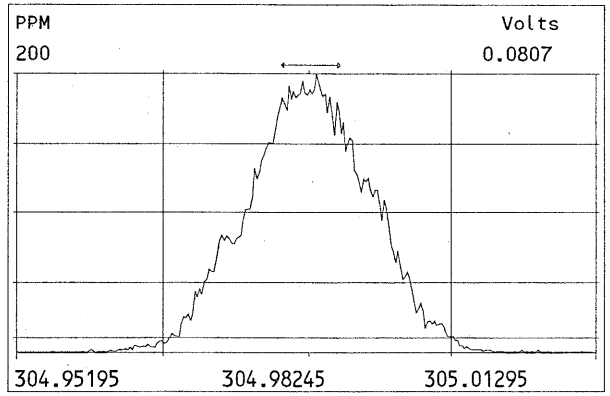
Peak Locate Examination:25-JUL-2018:00:22 File:24JUL18Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

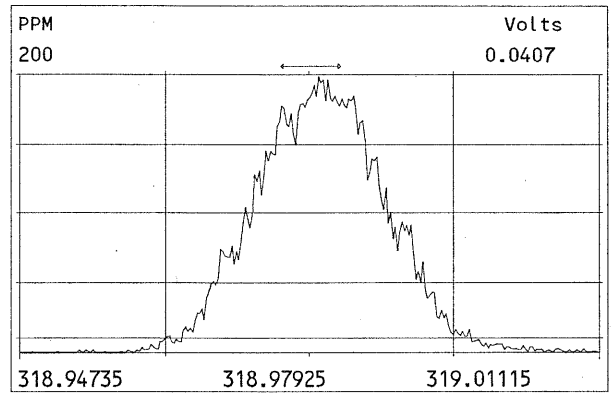


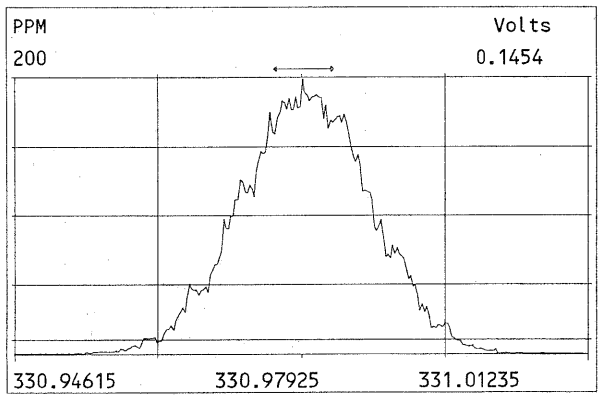


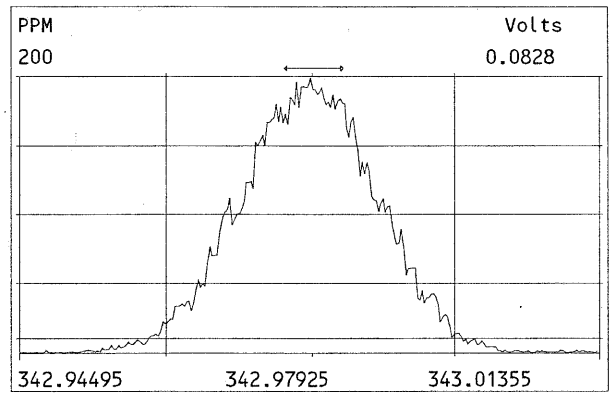




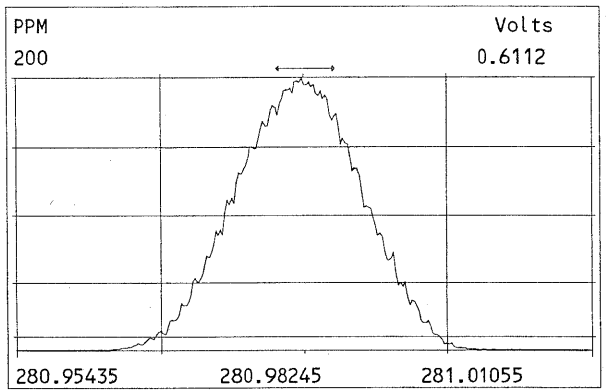


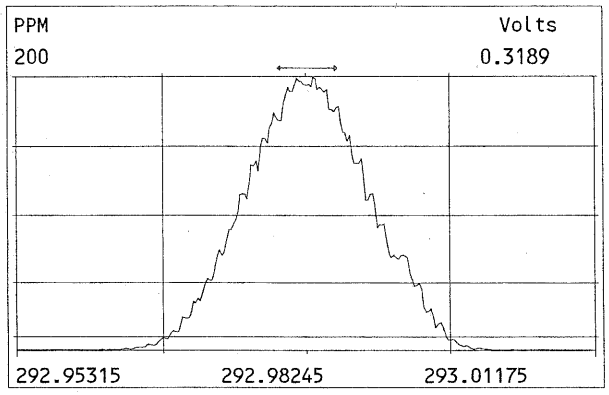


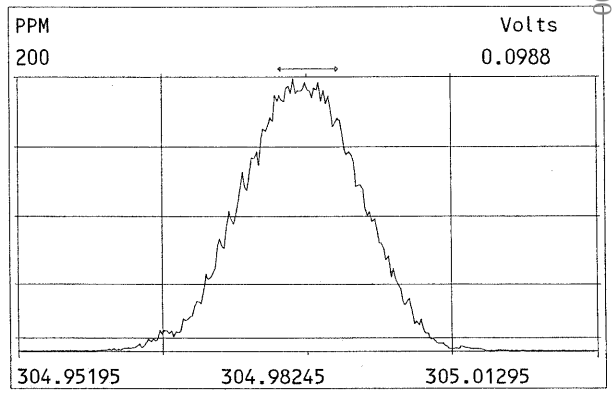


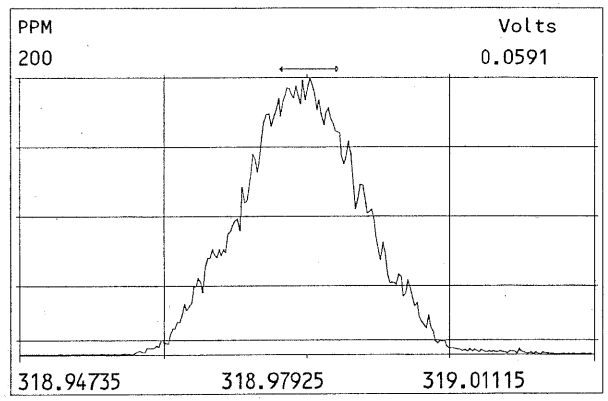


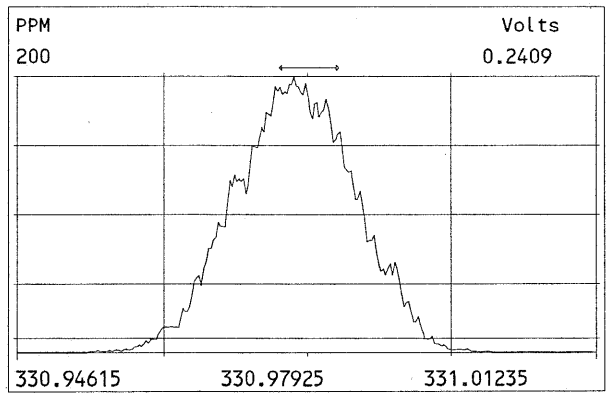
Peak Locate Examination:25-JUL-2018:00:24 File:24JUL18Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

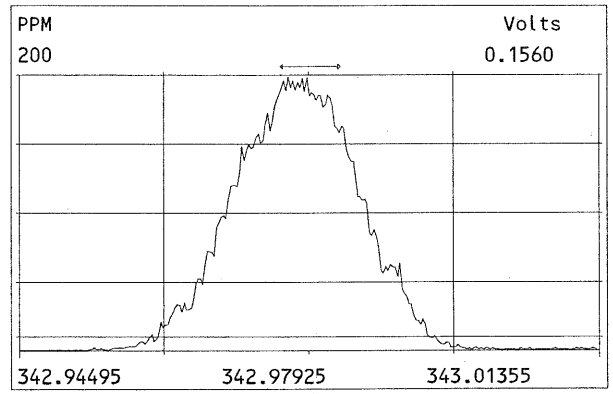


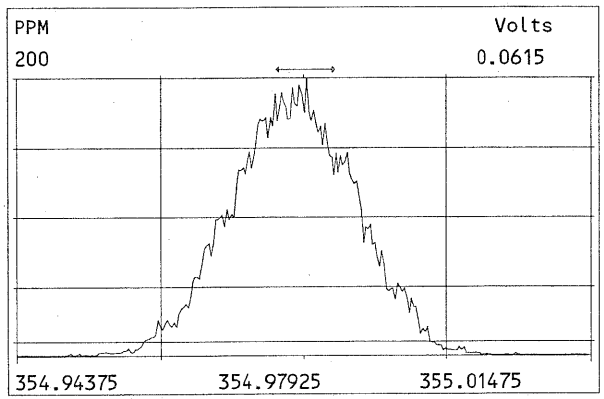


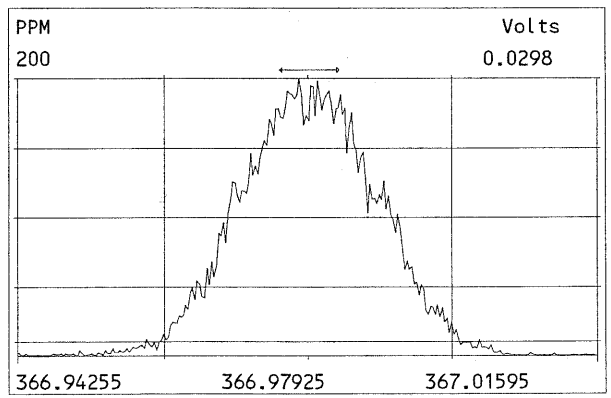


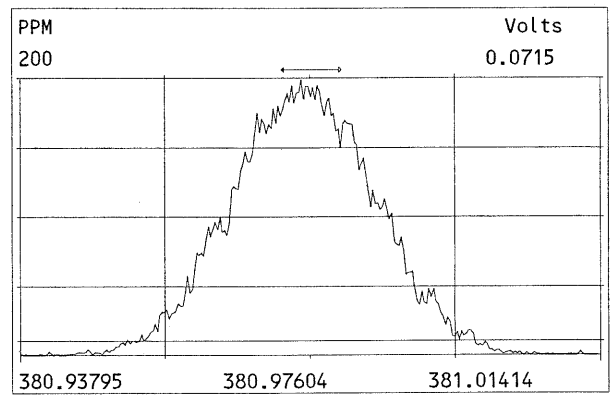




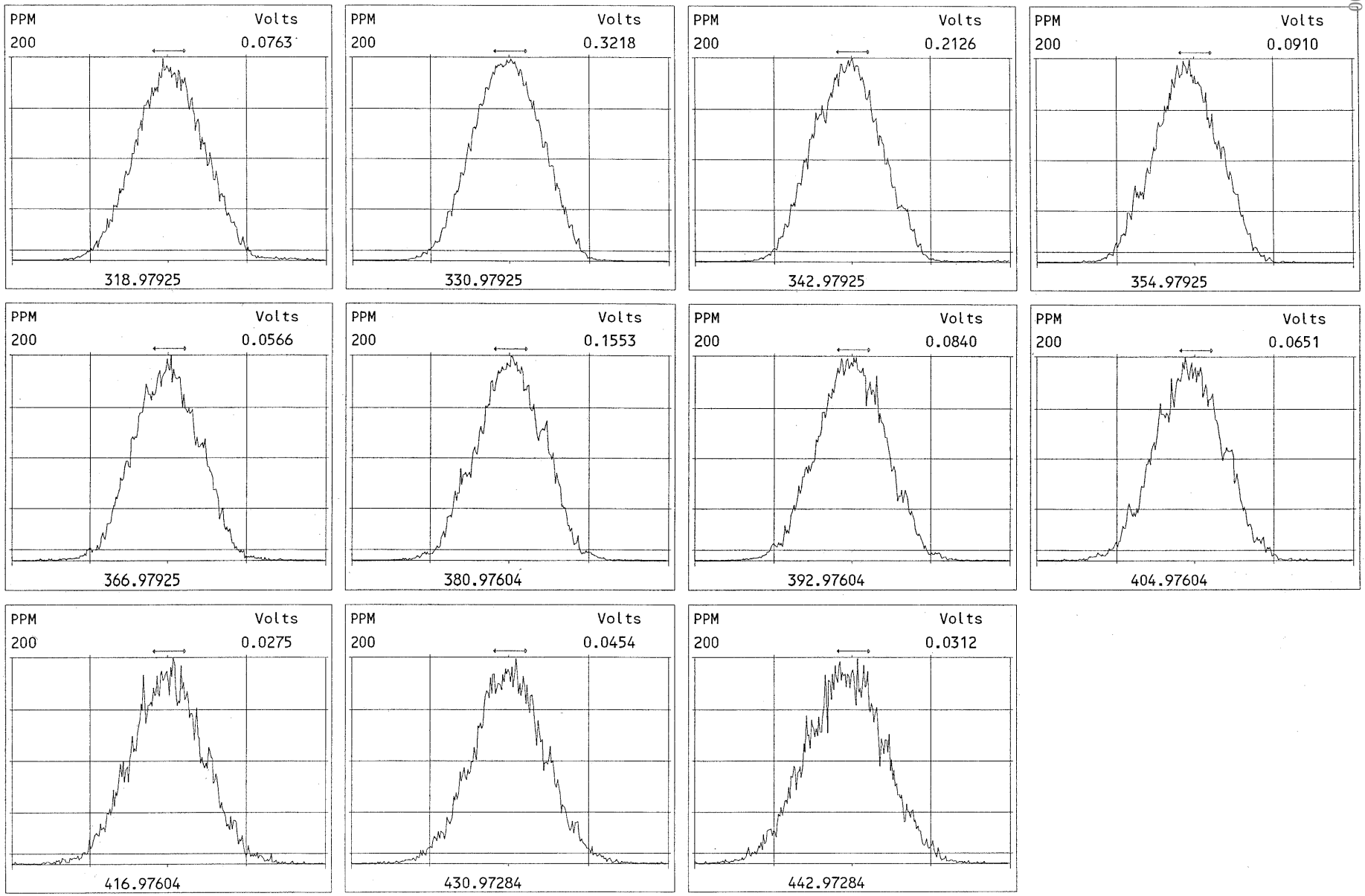




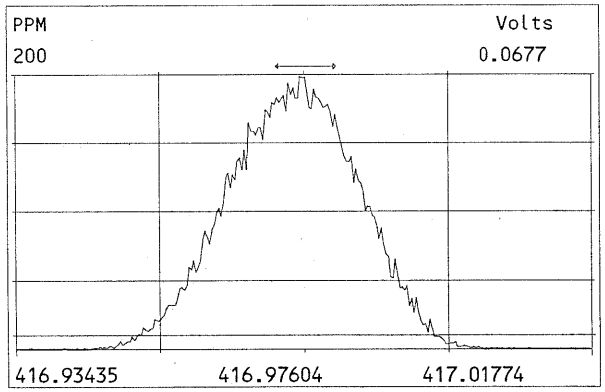


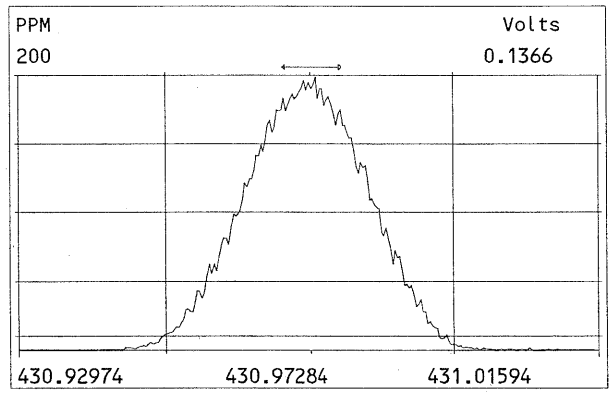


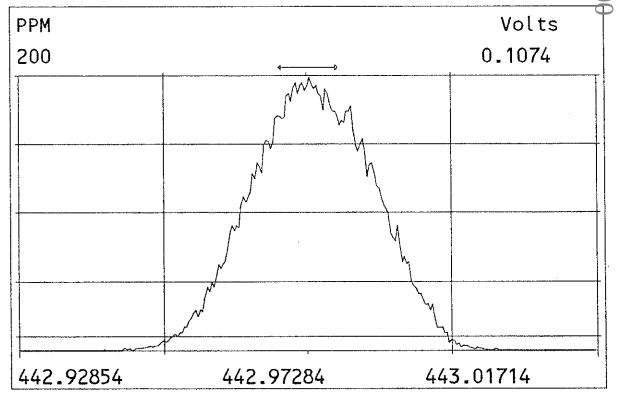
Peak Locate Examination:25-JUL-2018:00:27 File:24JUL18Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

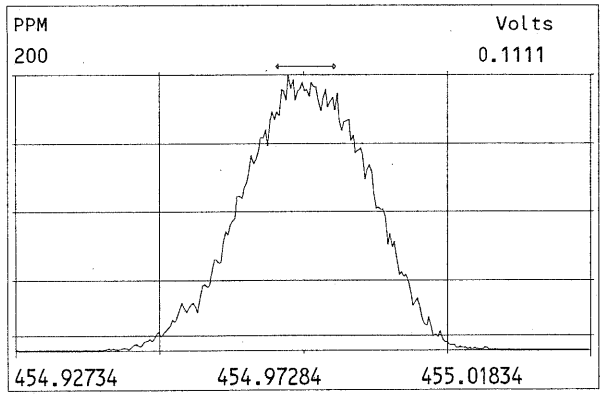


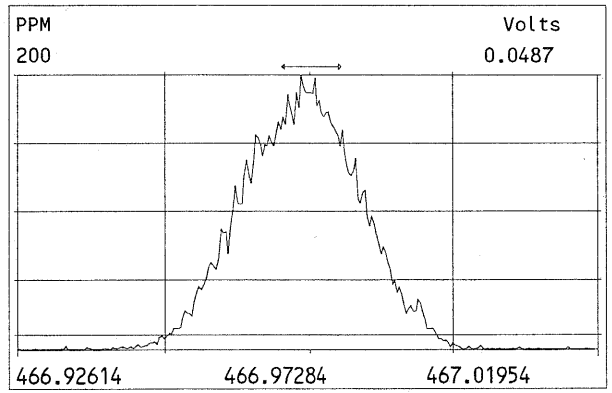
Peak Locate Examination:25-JUL-2018:00:29 File:24JUL18Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

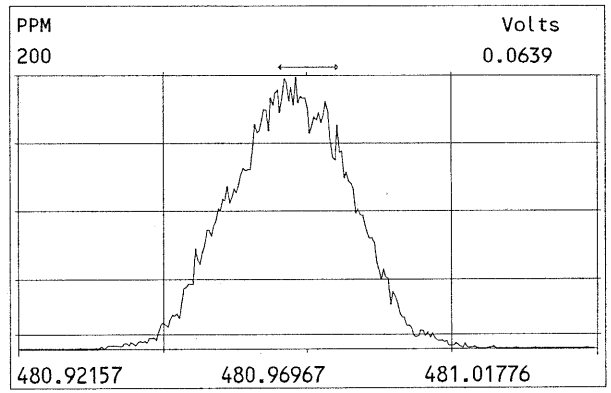


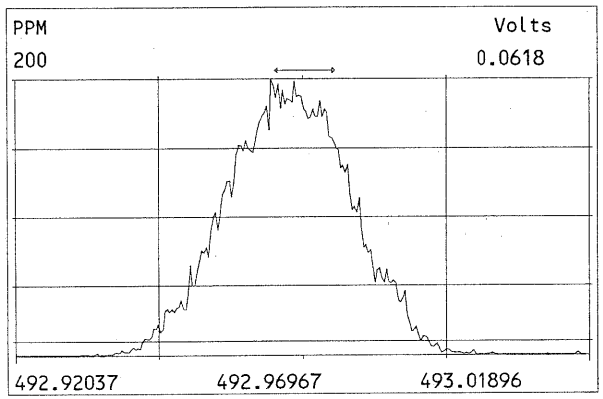


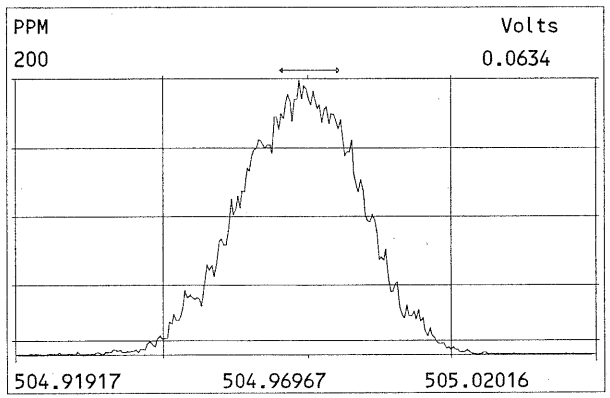


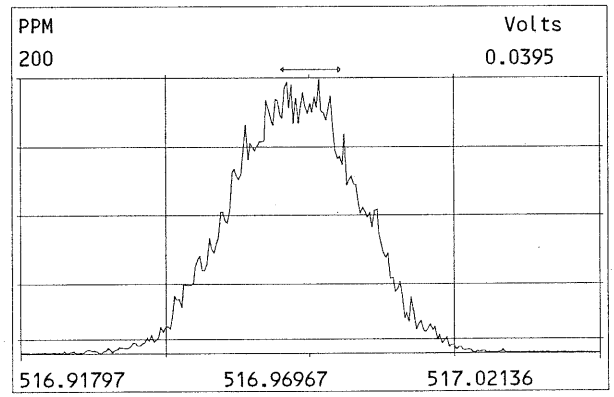












Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 25JUL18Z Sam:1 Analysis Date: 25-JUL-18 07:23:19

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	53.3	37.5 - 62.5
PCB-3	M/M+2	3.18	2.66-3.60	y	52.6	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	50.0	37.5 - 62.5
PCB-15	M/M+2	1.55	1.33-1.79	y	50.7	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	51.7	37.5 - 62.5
PCB-37	M/M+2	1.11	0.88-1.20	y	44.7	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	52.4	37.5 - 62.5
PCB-77	M/M+2	0.78	0.65-0.89	y	52.7	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	51.9	37.5 - 62.5
PCB-104	M+2/M+4	1.61	1.32-1.78	y	53.4	37.5 - 62.5
PCB-105	M+2/M+4	1.57	1.32-1.78	y	49.2	37.5 - 62.5
PCB-114	M+2/M+4	1.53	1.32-1.78	y	47.9	37.5 - 62.5
PCB-118	M+2/M+4	1.55	1.32-1.78	y	47.3	37.5 - 62.5
PCB-123	M+2/M+4	1.56	1.32-1.78	y	49.2	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	49.2	37.5 - 62.5
PCB-155	M+2/M+4	1.31	1.05-1.43	y	56.6	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	53.2	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	52.7	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	54.0	37.5 - 62.5
PCB-169	M+2/M+4	1.30	1.05-1.43	y	52.4	37.5 - 62.5
PCB-188	M+2/M+4	1.07	0.89-1.21	y	50.8	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	54.3	37.5 - 62.5
PCB-202	M+2/M+4	0.93	0.76-1.02	y	53.7	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	54.1	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	49.9	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	50.9	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	51.8	37.5 - 62.5

Analyst: _____ Date: 7/25/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 25JUL18Z Sam:1 Analysis Date: 25-JUL-18 07:23:19

	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	82.1	50.0 - 145
13C-PCB-3	M/M+2	3.24	2.66-3.60	y	84.8	50.0 - 145
13C-PCB-4	M/M+2	1.59	1.33-1.79	y	98.7	50.0 - 145
13C-PCB-15	M/M+2	1.59	1.33-1.79	y	92.3	50.0 - 145
13C-PCB-19	M/M+2	1.11	0.88-1.20	y	95.2	50.0 - 145
13C-PCB-37	M/M+2	1.11	0.88-1.20	y	116	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	103	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	111	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	110	50.0 - 145
13C-PCB-104	M+2/M+4	1.64	1.32-1.78	y	75.3	50.0 - 145
13C-PCB-105	M+2/M+4	1.64	1.32-1.78	y	108	50.0 - 145
13C-PCB-114	M+2/M+4	1.63	1.32-1.78	y	111	50.0 - 145
13C-PCB-118	M+2/M+4	1.60	1.32-1.78	y	112	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	104	50.0 - 145
13C-PCB-126	M+2/M+4	1.61	1.32-1.78	y	108	50.0 - 145
13C-PCB-155	M+2/M+4	1.35	1.05-1.43	y	66.9	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	98.0	50.0 - 145
13C-PCB-157	M+2/M+4	1.32	1.05-1.43	y	96.9	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	97.6	50.0 - 145
13C-PCB-169	M+2/M+4	1.30	1.05-1.43	y	107	50.0 - 145
13C-PCB-188	M+2/M+4	1.10	0.89-1.21	y	81.7	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	88.1	50.0 - 145
13C-PCB-202	M+2/M+4	0.95	0.76-1.02	y	60.3	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	97.0	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	108	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	88.5	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	99.1	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	119	65.0 - 135
13C-PCB-111	M+2/M+4	1.58	1.32-1.78	y	95.7	75.0 - 125
13C-PCB-178	M+2/M+4	1.11	0.89-1.21	y	82.2	75.0 - 125

Analyst: [signature] Date: 7/25/18

FAL ID: ST072518Z1 Filename: 25JUL18Z Sam:1 Acquired: 25-JUL-18 07:23:19 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 R170805A ConCal: NA EndCal: NA
Results: 24JUL18Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	2.38e+07	3.14 y	14:36	1.11	53.3		2.50	-	-	*	-
13C-PCB-1	4.04e+07	3.27 y	14:35	1.07	82.1		2.50				82.1
PCB-3	2.40e+07	3.18 y	17:04	1.13	52.6		2.50	-	-	*	-
13C-PCB-3	4.04e+07	3.24 y	17:03	1.03	84.8		2.50				84.8
PCB-4	1.76e+07	1.57 y	18:18	1.14	50.0		2.50	-	-	*	-
13C-PCB-4	3.07e+07	1.59 y	18:16	0.67	98.7		2.50				98.7
PCB-15	2.46e+07	1.55 y	23:53	1.10	50.7		2.50	-	-	*	-
13C-PCB-15	4.40e+07	1.59 y	23:52	1.03	92.3		2.50				92.3
PCB-19	1.31e+07	1.06 y	22:12	1.23	51.7		2.50	-	-	*	-
13C-PCB-19	2.07e+07	1.11 y	22:11	0.47	95.2		2.50				95.2
13C-PCB-9	4.61e+07	1.61 y	19:59	-	197		2.50				
PCB-37	2.03e+07	1.11 y	30:33	1.26	44.7		2.50	-	-	*	-
13C-PCB-37	3.62e+07	1.11 y	30:32	1.40	116		2.50				116
PCB-54	1.66e+07	0.79 y	25:45	1.16	52.4		2.50	-	-	*	-
13C-PCB-54	2.74e+07	0.81 y	25:43	1.19	103		2.50				103
PCB-104	8.81e+06	1.61 y	30:13	1.22	53.4		2.50	-	-	*	-
13C-PCB-104	1.35e+07	1.64 y	30:10	0.80	75.3		2.50				75.3
13C-PCB-28	4.07e+07	1.07 y	26:50	1.53	119		2.50				119
13C-PCB-52	2.24e+07	0.80 y	29:06	-	173		2.50				
PCB-81	1.73e+07	0.78 y	36:19	1.17	51.9		2.50	-	-	*	-
13C-PCB-81	2.86e+07	0.80 y	36:18	1.37	110		2.50				110
PCB-77	1.73e+07	0.78 y	36:53	1.11	52.7		2.50	-	-	*	-
13C-PCB-77	2.96e+07	0.81 y	36:52	1.41	111		2.50				111
PCB-155	8.35e+06	1.31 y	34:21	1.14	56.6		2.50	-	-	*	-
13C-PCB-155	1.29e+07	1.35 y	34:20	1.02	66.9		2.50				66.9
13C-PCB-111	2.29e+07	1.58 y	36:27	1.26	95.7		2.50				95.7
13C-PCB-101	1.89e+07	1.61 y	34:48	-	168		2.50				
PCB-123	1.46e+07	1.56 y	38:30	1.12	49.2		2.50	-	-	*	-
13C-PCB-123	2.64e+07	1.59 y	38:28	1.36	104		2.50				104
PCB-118	1.64e+07	1.55 y	38:41	1.16	47.3		2.50	-	-	*	-
13C-PCB-118	2.99e+07	1.60 y	38:40	1.42	112		2.50				112
PCB-114	1.54e+07	1.53 y	39:18	1.13	47.9		2.50	-	-	*	-
13C-PCB-114	2.86e+07	1.63 y	39:16	1.38	111		2.50				111
PCB-105	1.52e+07	1.57 y	40:07	1.11	49.2		2.50	-	-	*	-
13C-PCB-105	2.79e+07	1.64 y	40:05	1.38	108		2.50				108
PCB-126	1.43e+07	1.57 y	42:15	1.11	49.2		2.50	-	-	*	-
13C-PCB-126	2.61e+07	1.61 y	42:14	1.29	108		2.50				108
PCB-167	1.28e+07	1.25 y	43:36	1.05	54.0		2.50	-	-	*	-
13C-PCB-167	2.25e+07	1.27 y	43:34	1.23	97.6		2.50				97.6
PCB-156	1.25e+07	1.27 y	44:50	1.08	53.2		2.50	-	-	*	-
13C-PCB-156	2.18e+07	1.28 y	44:48	1.19	98.0		2.50				98.0
PCB-157	1.25e+07	1.24 y	45:05	1.06	52.7		2.50	-	-	*	-
13C-PCB-157	2.25e+07	1.32 y	45:03	1.24	96.9		2.50				96.9
PCB-169	1.28e+07	1.30 y	46:55	1.06	52.4		2.50	-	-	*	-
13C-PCB-169	2.31e+07	1.30 y	46:55	1.15	107		2.50				107
PCB-188	1.00e+07	1.07 y	39:52	1.14	50.8		2.50	-	-	*	-
13C-PCB-188	1.72e+07	1.10 y	39:51	1.13	81.7		2.50				81.7
PCB-189	9.44e+06	1.07 y	48:34	1.12	54.3		2.50	-	-	*	-
13C-PCB-189	1.56e+07	1.08 y	48:34	0.94	88.1		2.50				88.1
PCB-202	5.10e+06	0.93 y	44:57	1.09	53.7		2.50	-	-	*	-
13C-PCB-202	8.72e+06	0.95 y	44:57	0.77	60.3		2.50				60.3
13C-PCB-178	1.17e+07	1.11 y	42:29	0.76	82.2		2.50				82.2
13C-PCB-138	1.87e+07	1.29 y	41:42	-	171		2.50				

FAL ID: ST072518Z1 Filename: 25JUL18Z Sam:1 Acquired: 25-JUL-18 07:23:19 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 R170805A ConCal: NA EndCal: NA
Results: 24JUL18Z GC Column: DB1MS Amount: 1.000

PCB-205	1.47e+07	0.91	y	50:13	1.04	54.1	2.50	-	-	*	-
13C-PCB-205	2.60e+07	0.91	y	50:11	1.32	97.0	2.50				97.0
PCB-208	1.17e+07	1.35	y	49:15	0.96	50.9	2.50	-	-	*	-
13C-PCB-208	2.40e+07	0.81	y	49:13	1.33	88.5	2.50				88.5
PCB-206	9.98e+06	1.37	y	51:23	0.97	49.9	2.50	-	-	*	-
13C-PCB-206	2.05e+07	0.79	y	51:23	0.94	108	2.50				108
PCB-209	1.28e+07	1.19	y	52:35	1.17	51.8	2.50	-	-	*	-
13C-PCB-209	2.11e+07	1.20	y	52:35	1.04	99.1	2.50				99.1
13C-PCB-194	2.04e+07	0.91	y	49:56	-	206	2.50				

Analyst: [signature] Date: 7/25/18

Frontier Analytical Laboratory - Acquisition Log

Run Name:25JUL18Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

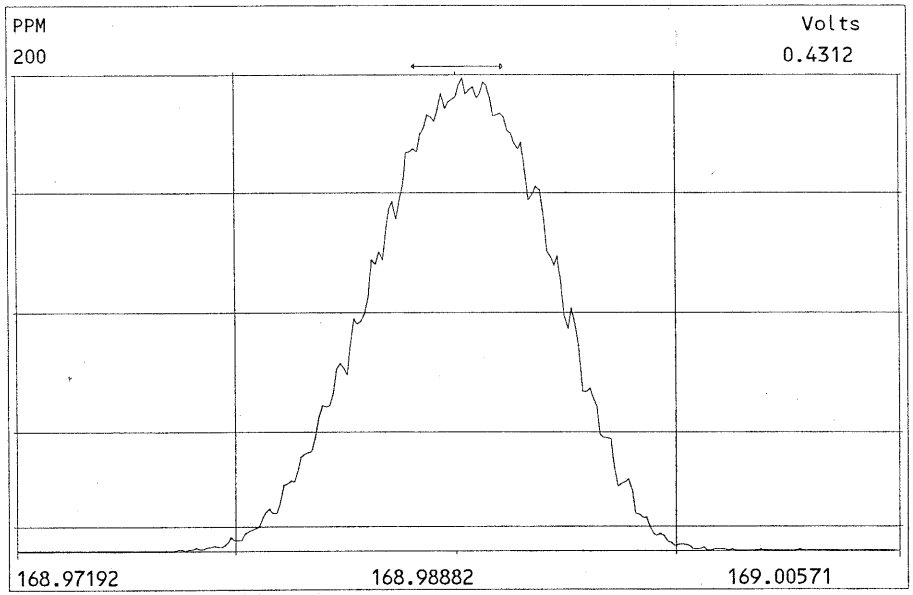
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
25JUL18Z	1	ST072518Z1	1668 CS3 170805A	25-JUL-18 07:23:19	ST072518Z1	ST072518Z2	BS
25JUL18Z	2	SS072518Z1	Daily 209 171222A	25-JUL-18 08:21:39	ST072518Z1	ST072518Z2	BS
25JUL18Z	3	04579-001-0001-OPR	OPR	25-JUL-18 09:20:01	ST072518Z1	ST072518Z2	BS
25JUL18Z	4	04579-001-0001-MB	Method Blank	25-JUL-18 10:18:22	ST072518Z1	ST072518Z2	BS
25JUL18Z	5	11704-002-0001-SA	LDW-Y1-SU-ENR-CA-S010	25-JUL-18 11:16:43	ST072518Z1	ST072518Z2	BS
25JUL18Z	6	11704-003-0001-SA	LDW-Y1-SU-ENR-CB-S010	25-JUL-18 12:15:29	ST072518Z1	ST072518Z2	BS
25JUL18Z	7	11704-004-0001-SA	LDW-Y1-SU-ENR-CC-S010	25-JUL-18 13:14:16	ST072518Z1	ST072518Z2	BS
25JUL18Z	8	11704-013-0001-SA	LDW-Y1-IN-ENR-CA-S010	25-JUL-18 14:12:37	ST072518Z1	ST072518Z2	BS
25JUL18Z	9	11704-014-0001-SA	LDW-Y1-IN-ENR-CB-S010	25-JUL-18 15:10:59	ST072518Z1	ST072518Z2	BS
25JUL18Z	10	11704-015-0001-SA	LDW-Y1-IN-ENR-CC-S010	25-JUL-18 16:09:45	ST072518Z1	ST072518Z2	BS
25JUL18Z	11	11704-018-0001-SA	LDW-Y1-SC-S010-TB	25-JUL-18 17:08:26	ST072518Z1	ST072518Z2	BS
25JUL18Z	12	11704-019-0001-SA	LDW-Y1-SU-S010-TB	25-JUL-18 18:06:47	ST072518Z1	ST072518Z2	BS
25JUL18Z	13	11704-020-0001-SA	LDW-Y1-IN-S010-TB	25-JUL-18 19:05:32	ST072518Z1	ST072518Z2	BS
25JUL18Z	14	SB072518Z1	Solvent Blank	25-JUL-18 20:03:58	ST072518Z1	ST072518Z2	BS
25JUL18Z	15	SB072518Z2	Solvent Blank	25-JUL-18 21:02:44	ST072518Z1	ST072518Z2	BS
25JUL18Z	16	ST072518Z2	1668 CS3 170805A	25-JUL-18 22:01:08	ST072518Z1	ST072518Z2	BS

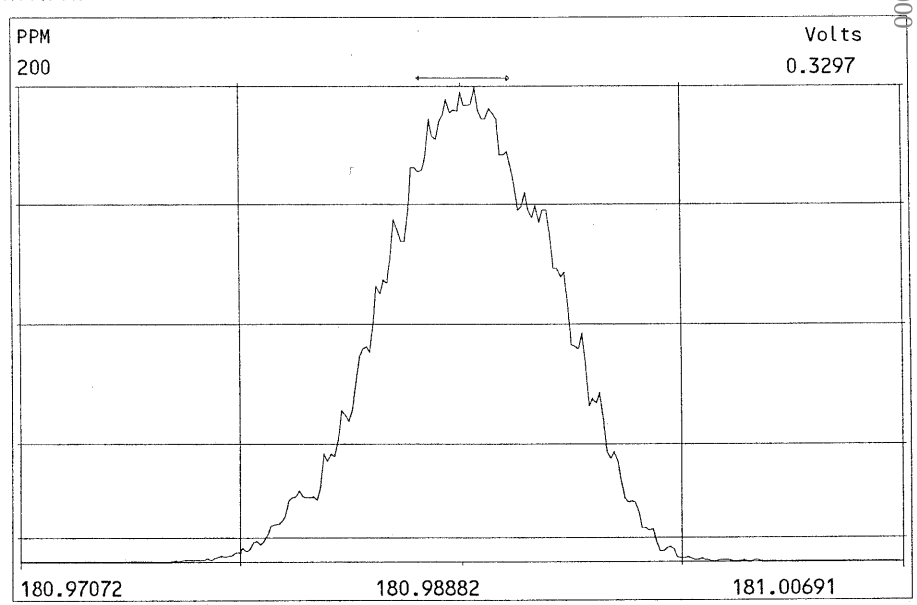
07/24/18

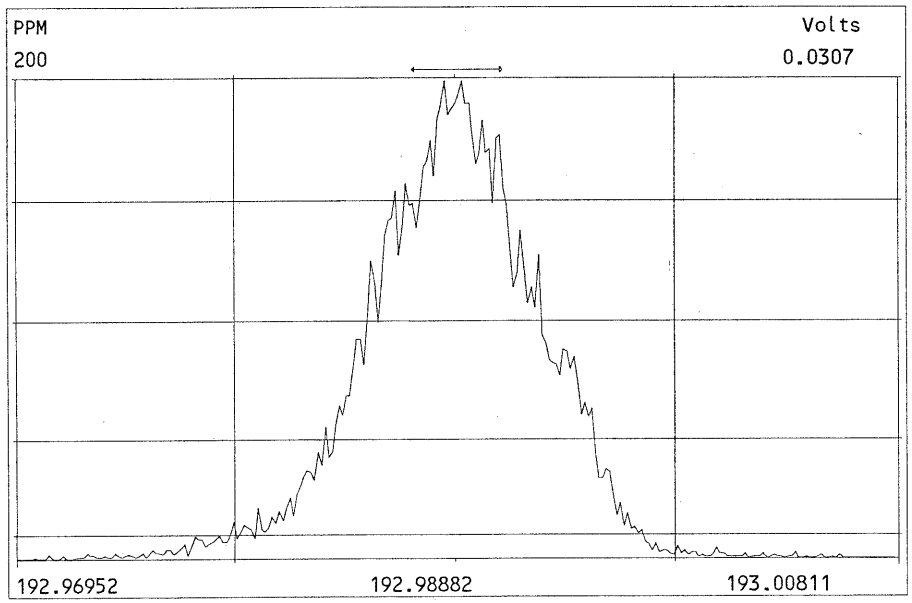
Data Backed Up:_____

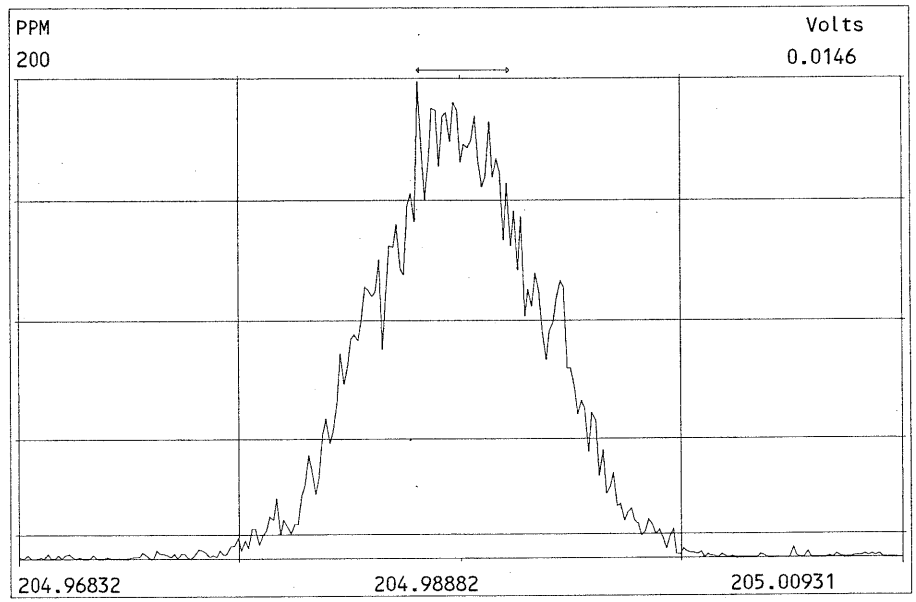
Date:_____

Peak Locate Examination:25-JUL-2018:07:20 File:25JUL18Z
Experiment:1668PCB Function:1 Reference:PFK

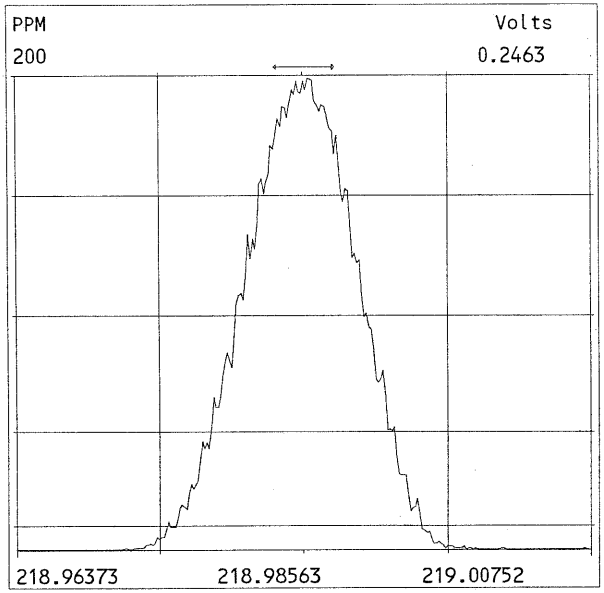


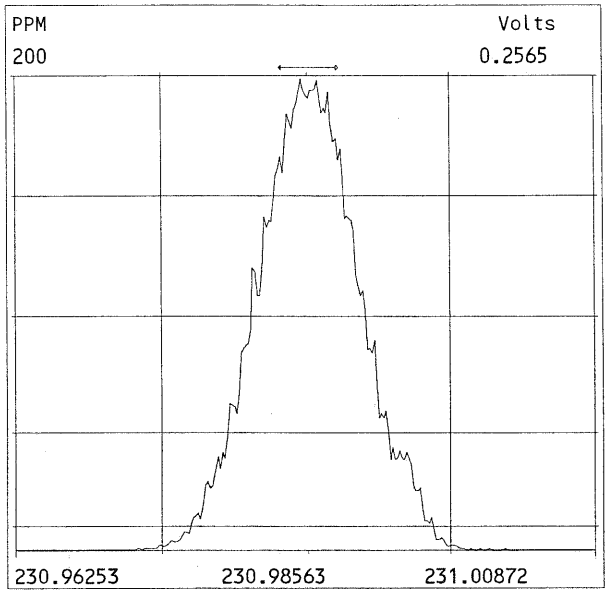


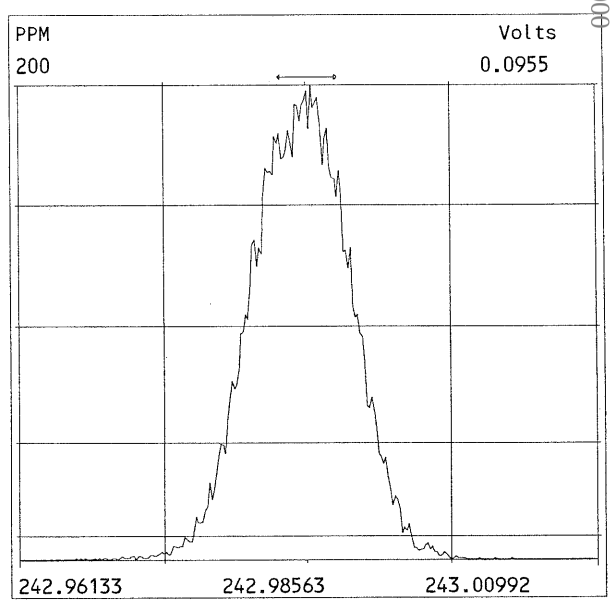


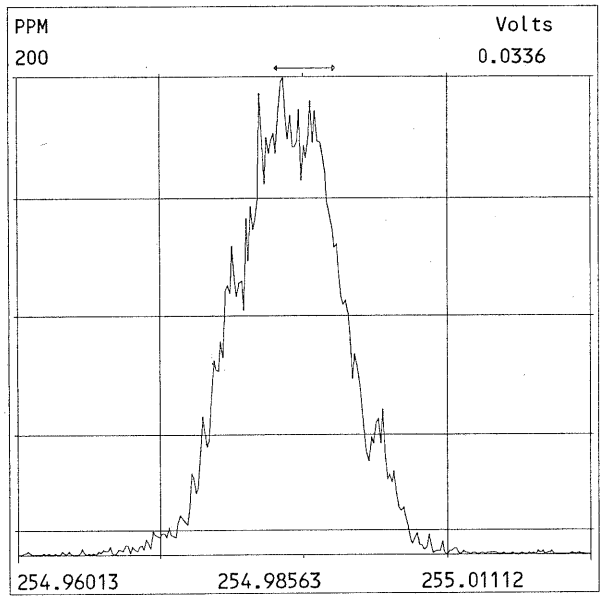


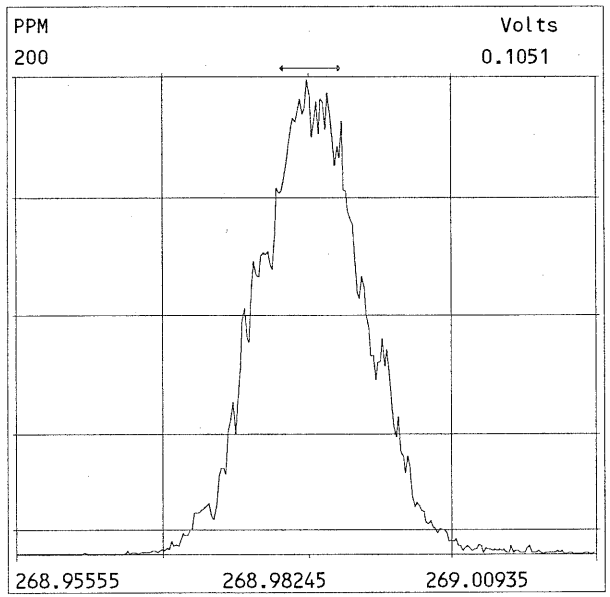
Peak Locate Examination:25-JUL-2018:07:20 File:25JUL18Z
Experiment:1668PCB Function:2 Reference:PFK

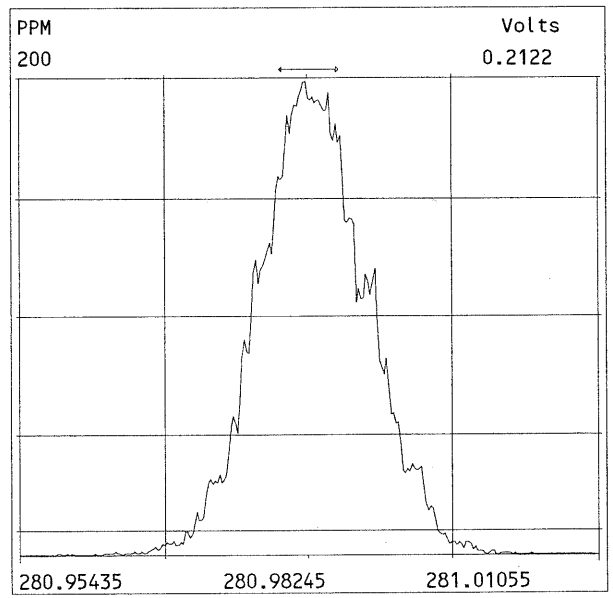




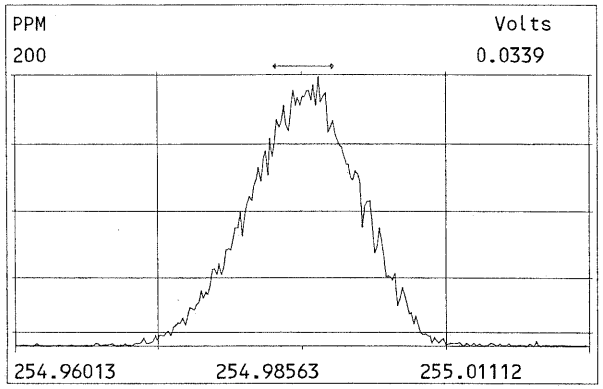


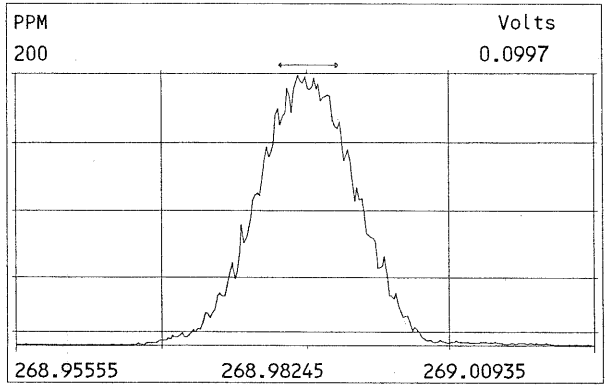


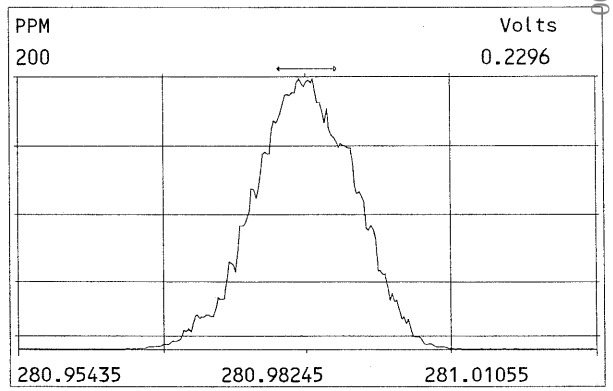


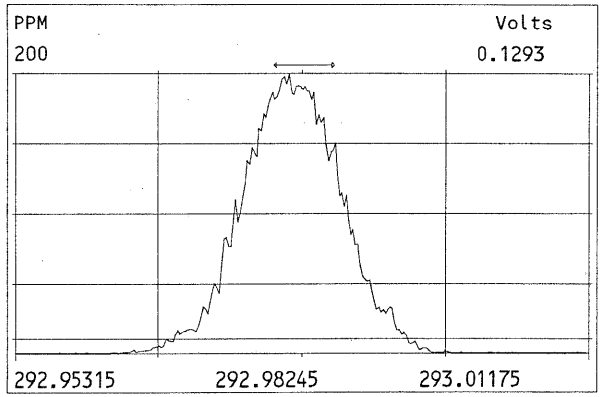


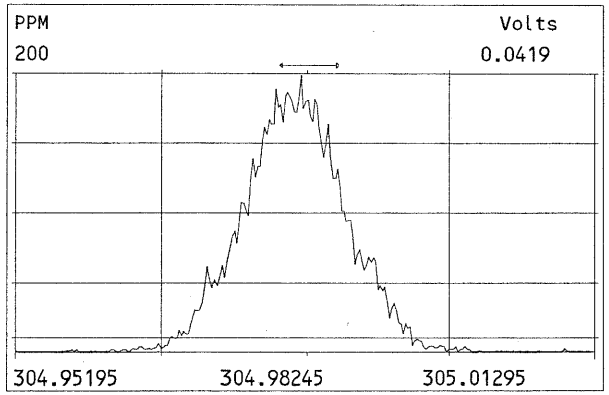
Peak Locate Examination:25-JUL-2018:07:21 File:25JUL18Z
Experiment:1668PCB Function:3 Reference:PFK

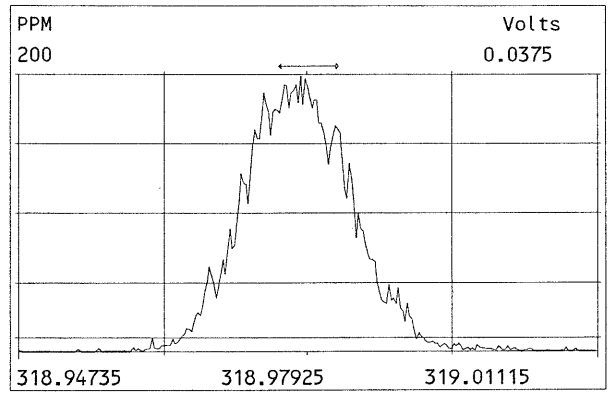


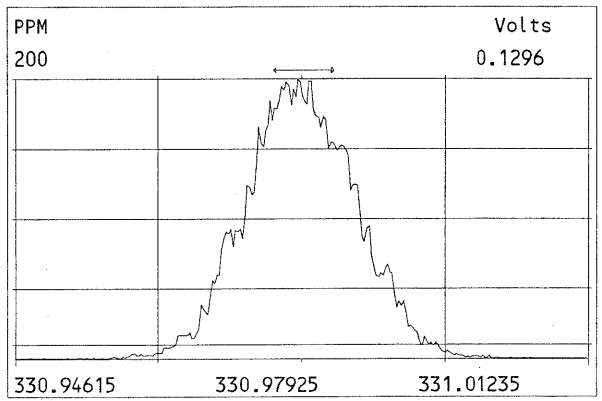


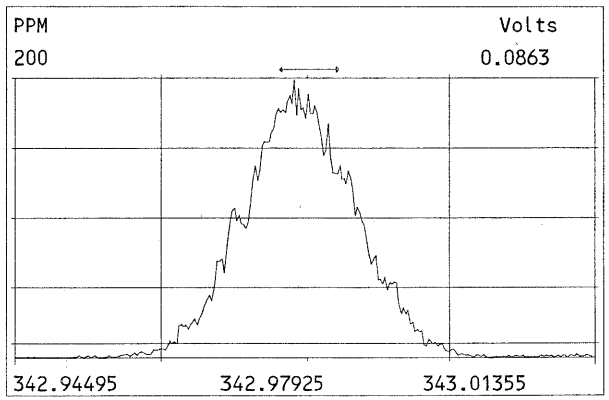




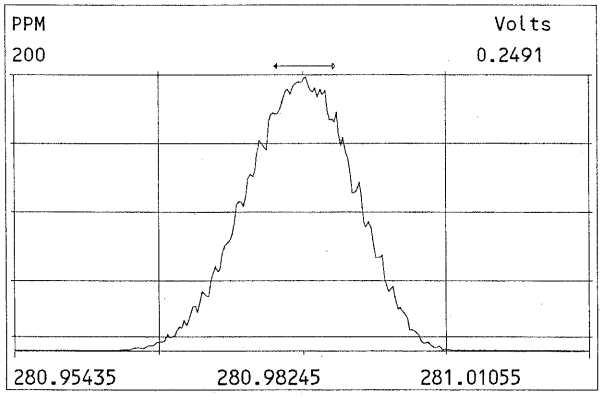


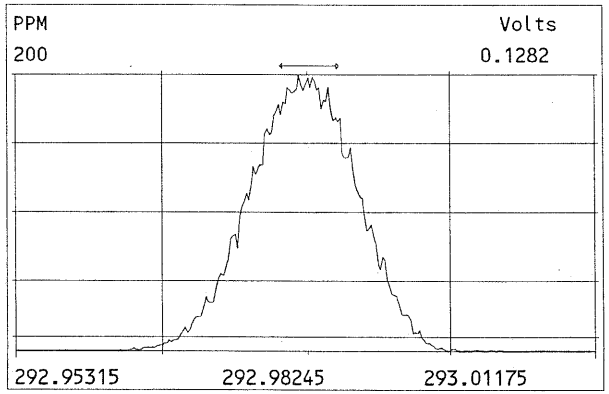


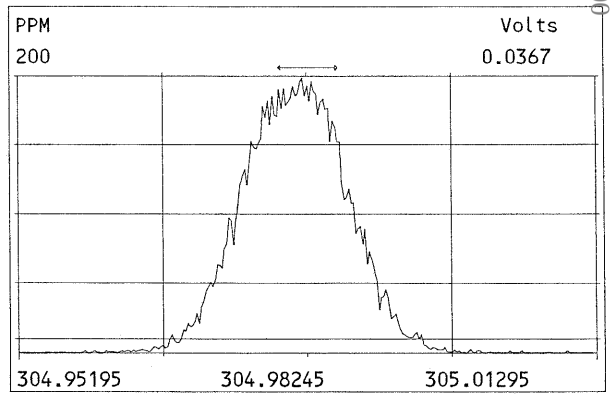


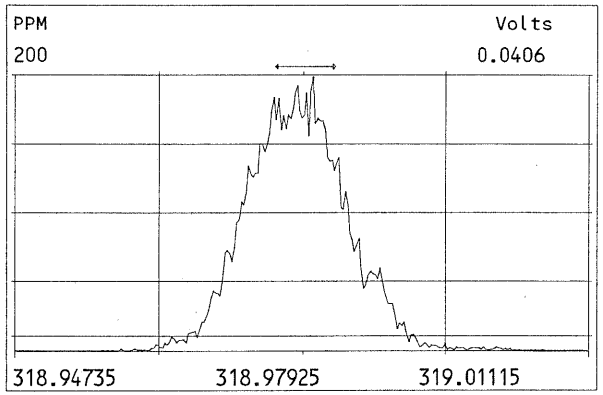


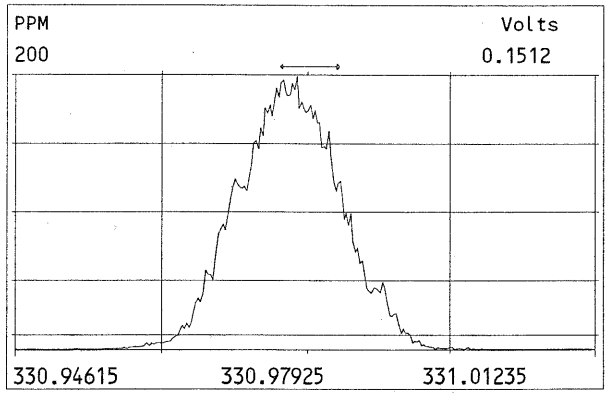
Peak Locate Examination:25-JUL-2018:07:22 File:25JUL18Z
Experiment:1668PCB Function:4 Reference:PFK

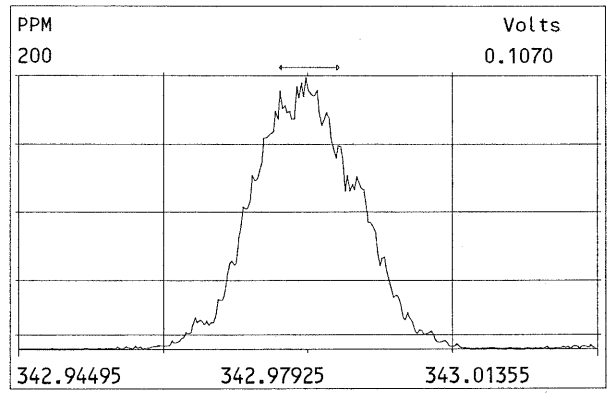


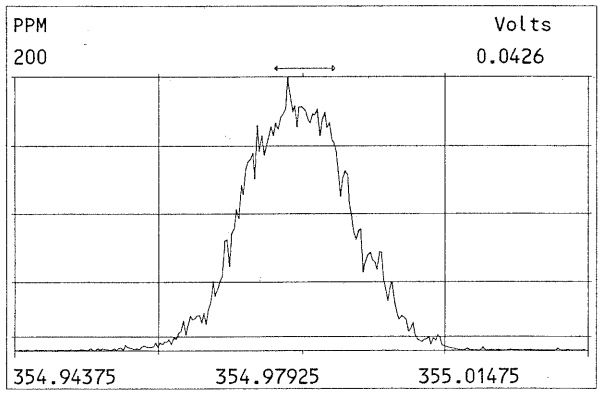


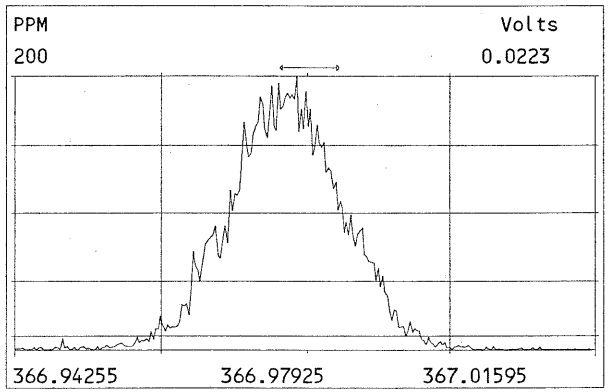


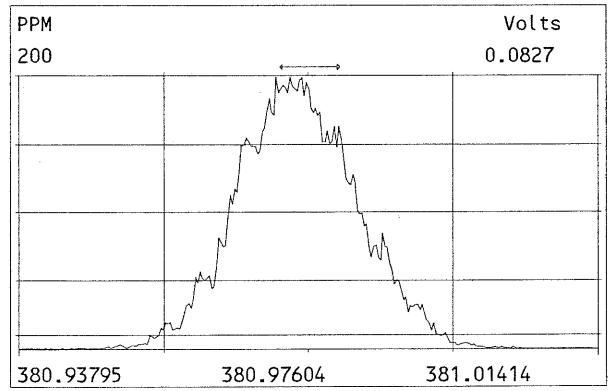




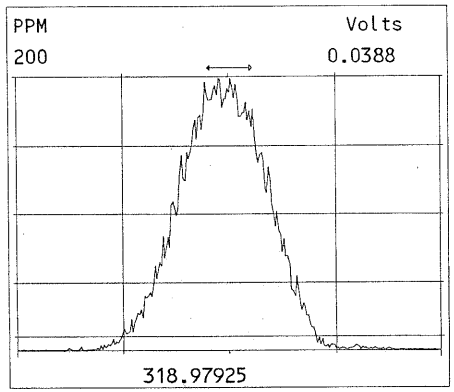


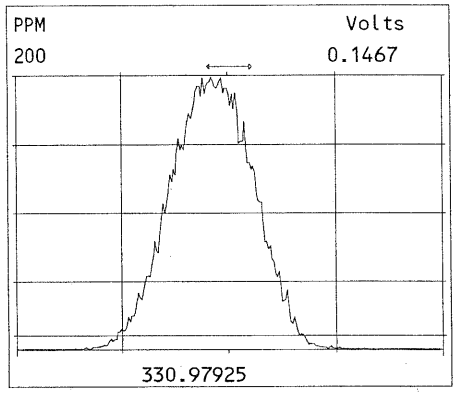


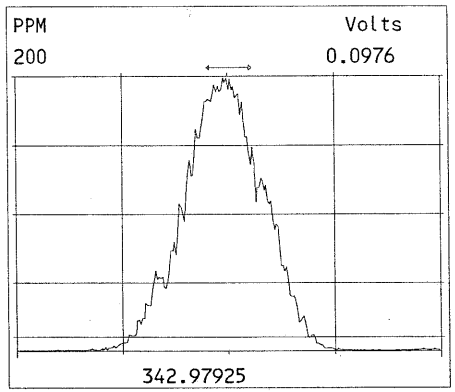


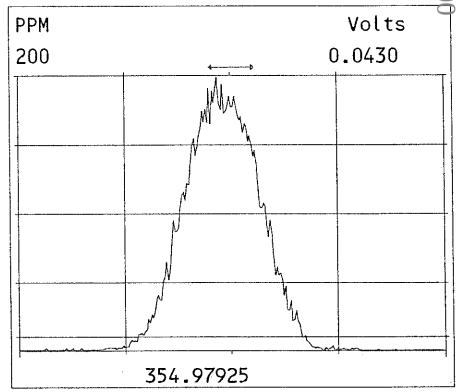


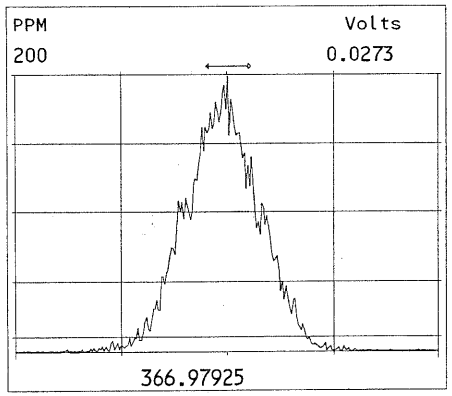
Peak Locate Examination:25-JUL-2018:07:22 File:25JUL18Z
Experiment:1668PCB Function:5 Reference:PFK

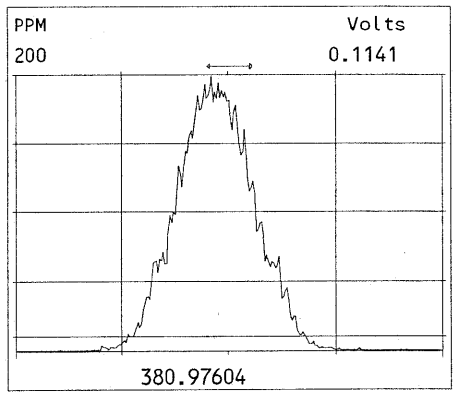


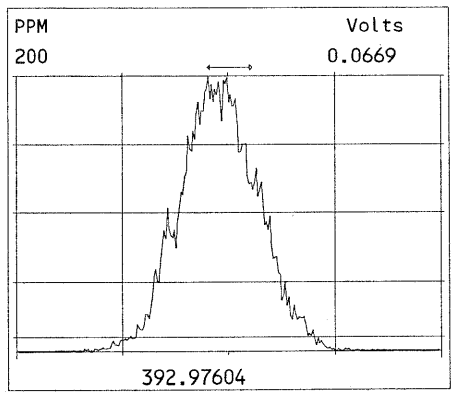


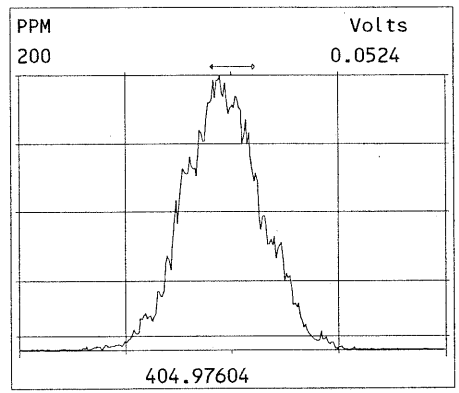


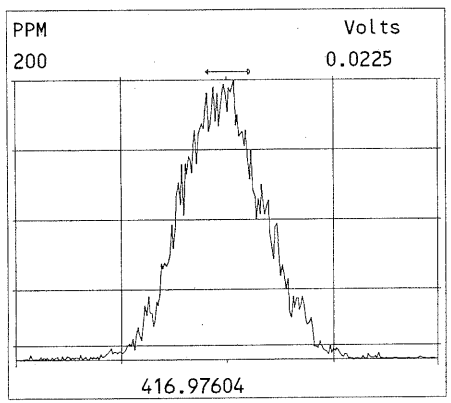


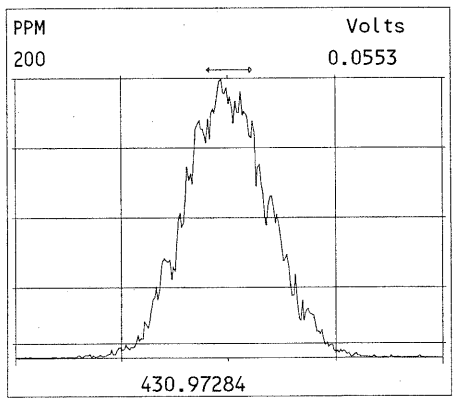


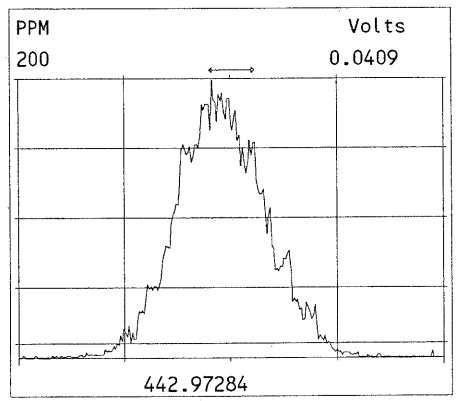






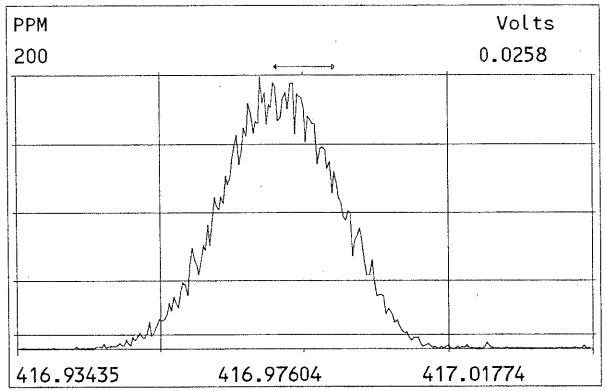


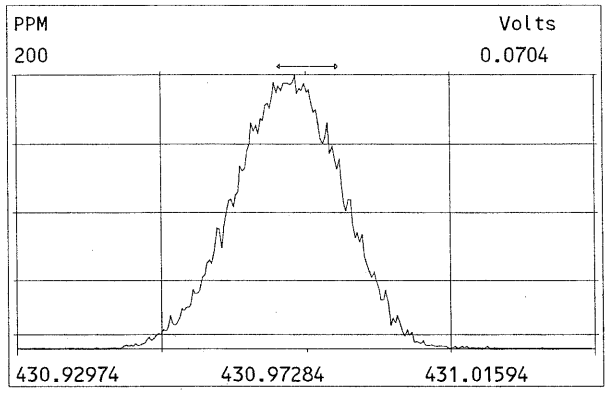


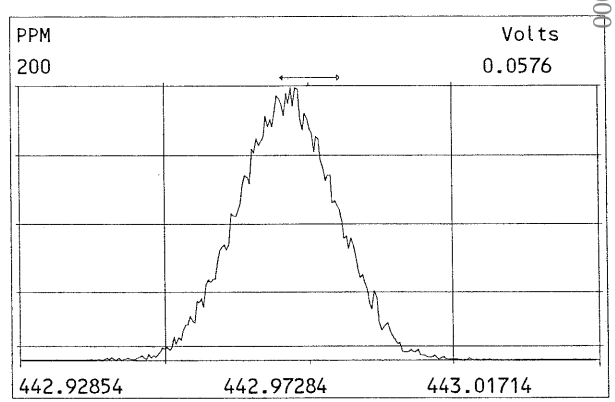


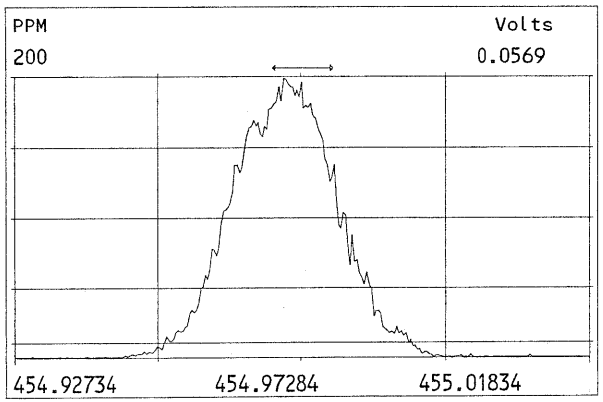
Peak Locate Examination:25-JUL-2018:07:22 File:25JUL18Z

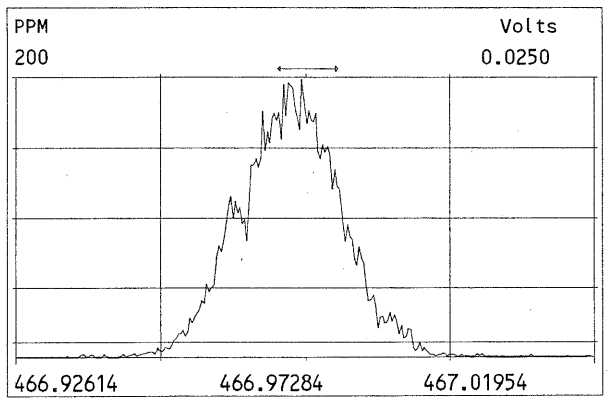
Experiment:1668PCB Function:6 Reference:PFK

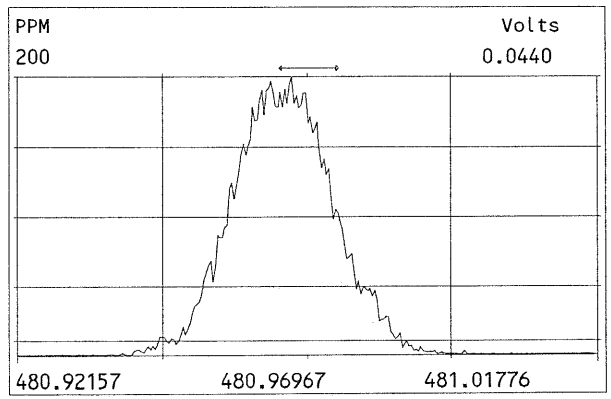


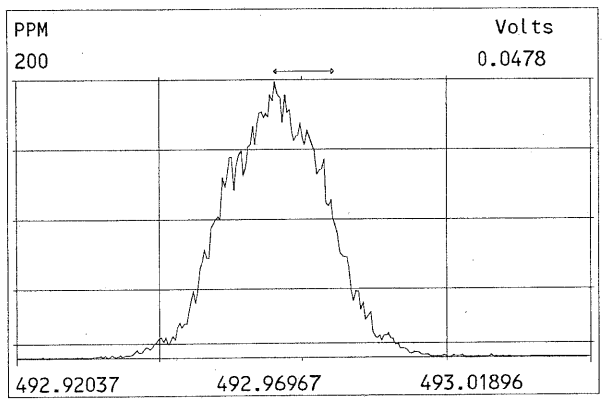


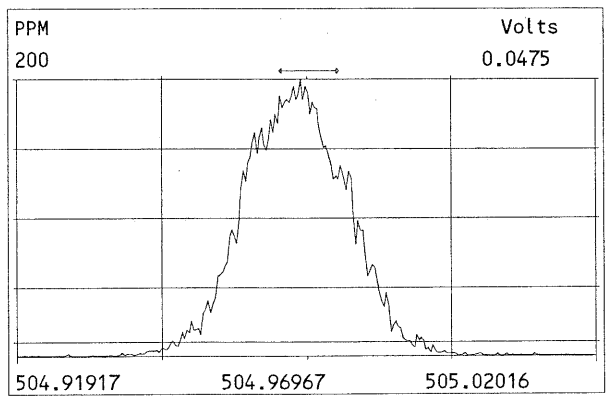


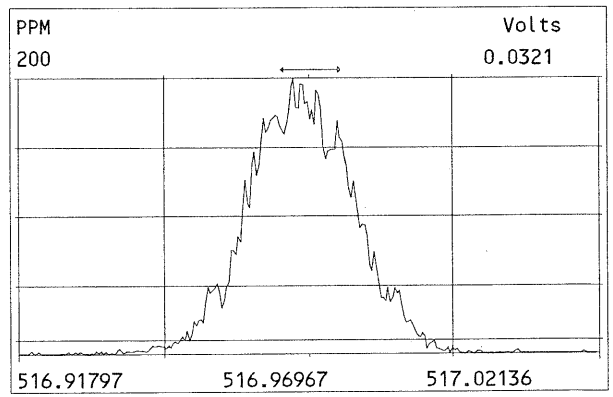




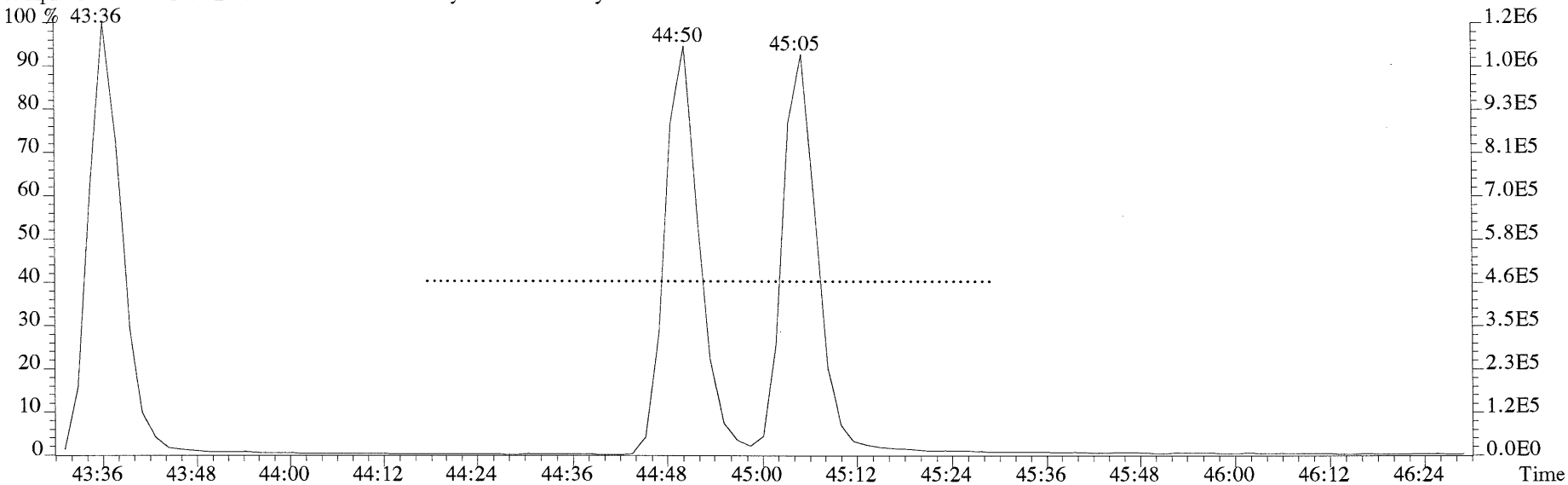




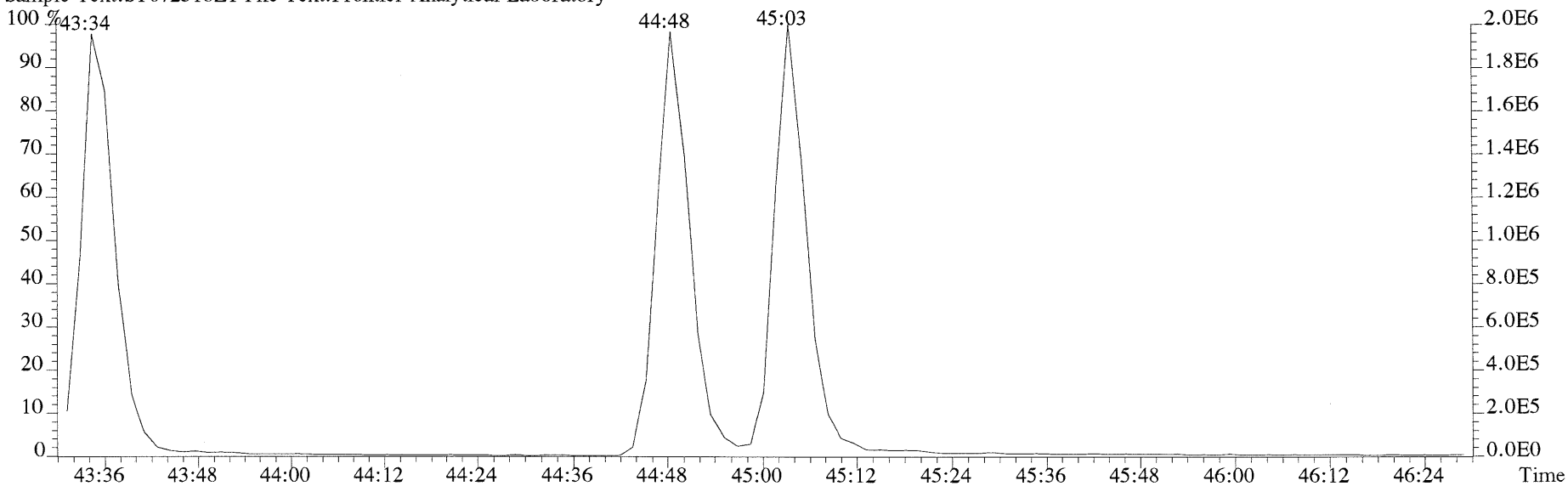




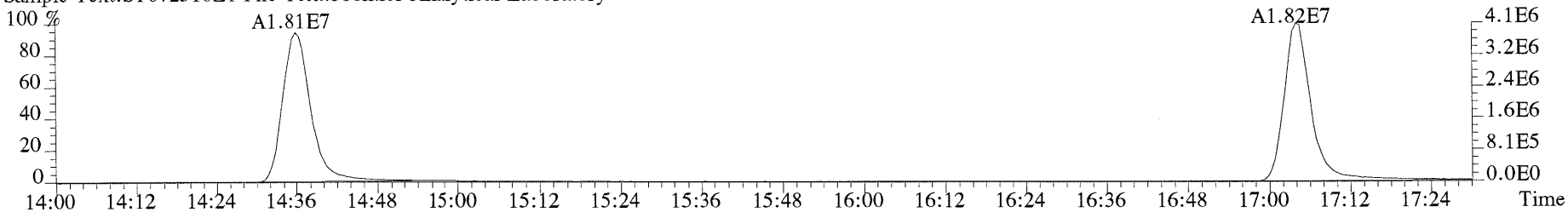
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



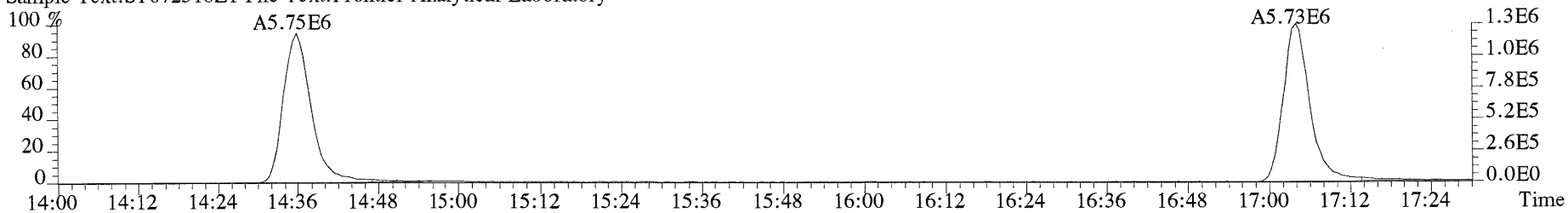
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



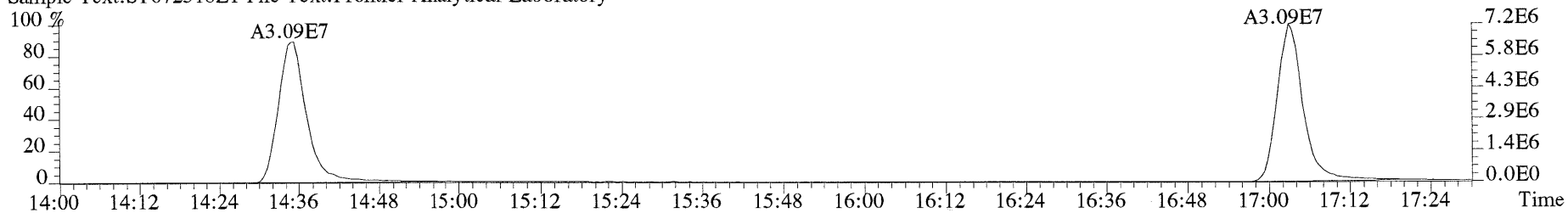
File:25JUL18Z #1-783 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



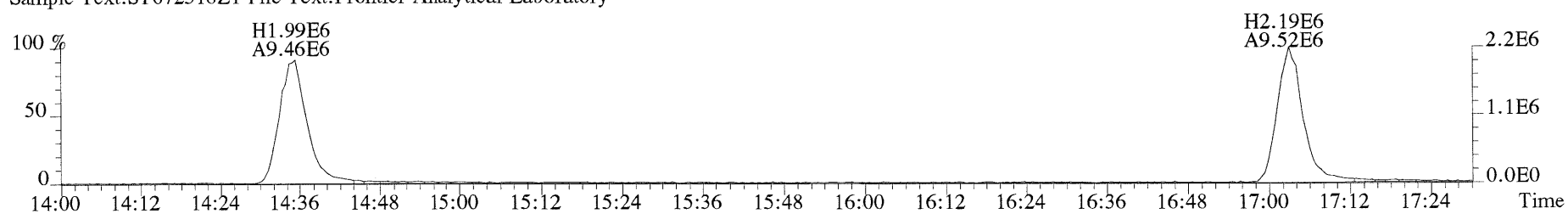
File:25JUL18Z #1-783 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



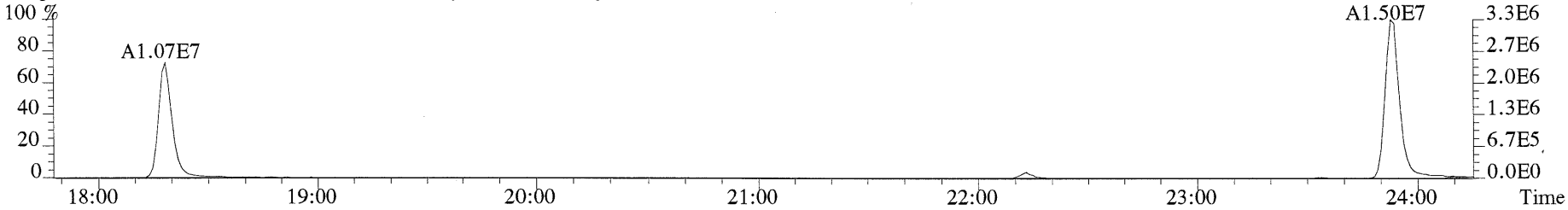
File:25JUL18Z #1-783 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



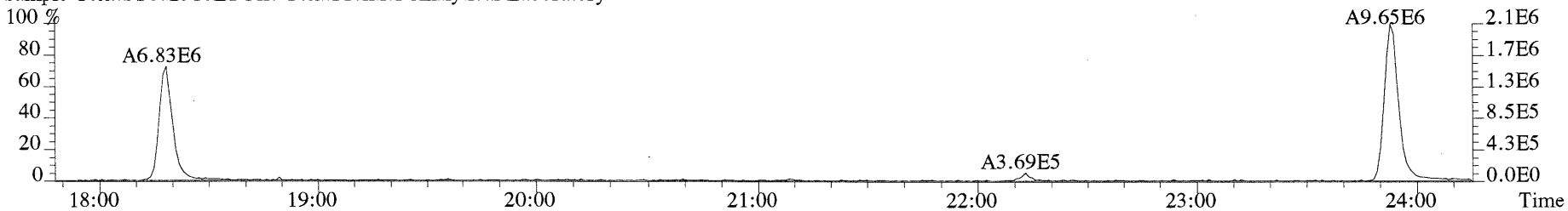
File:25JUL18Z #1-783 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



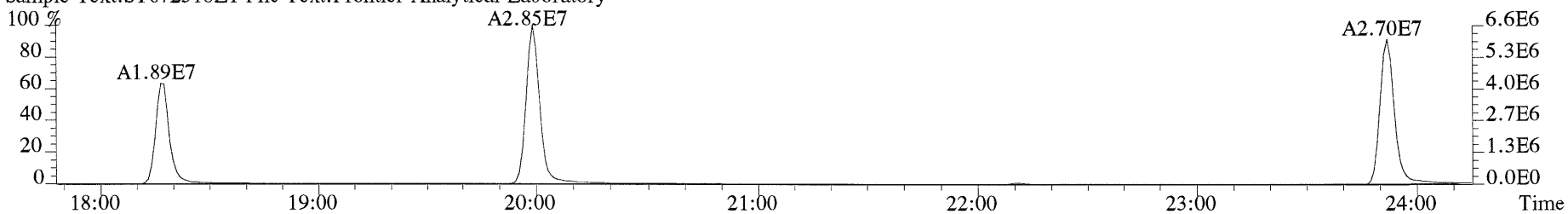
File:25JUL18Z #1-521 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



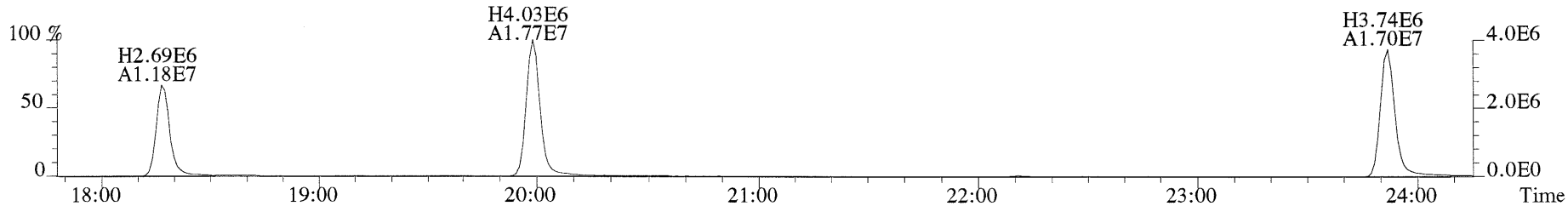
File:25JUL18Z #1-521 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



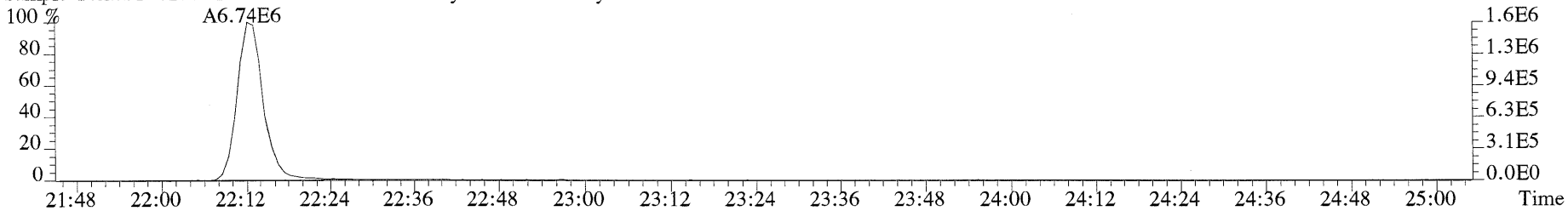
File:25JUL18Z #1-521 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



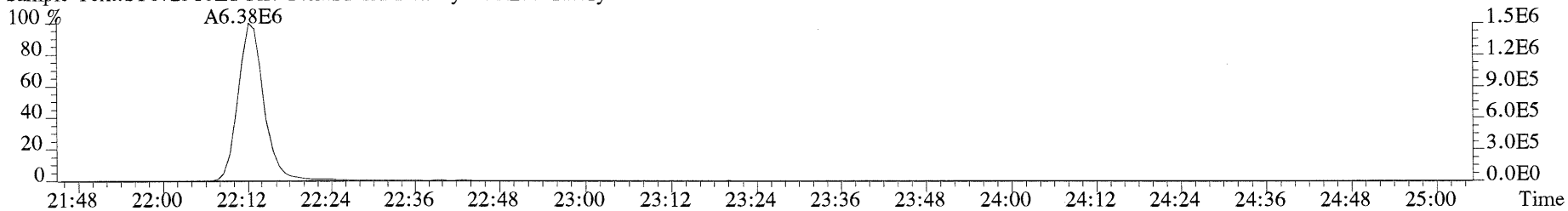
File:25JUL18Z #1-521 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



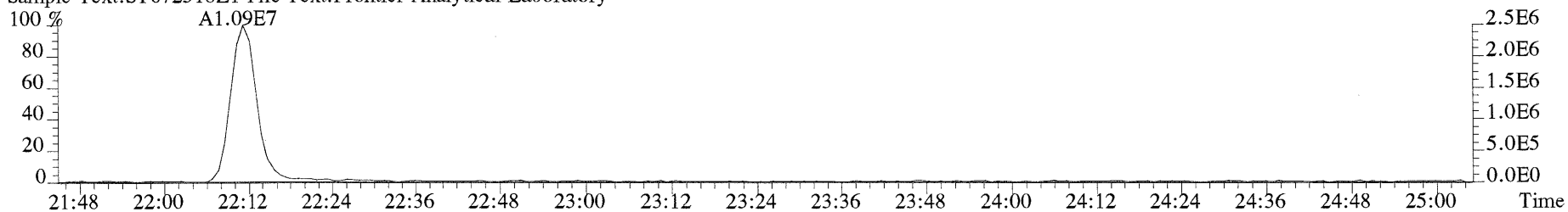
File:25JUL18Z #1-521 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



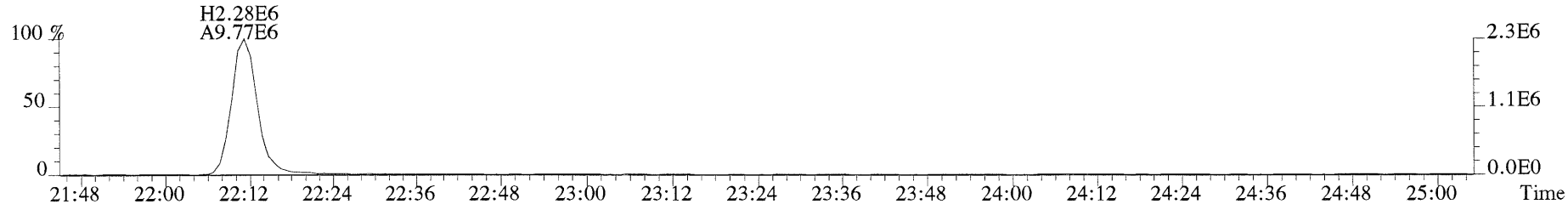
File:25JUL18Z #1-521 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



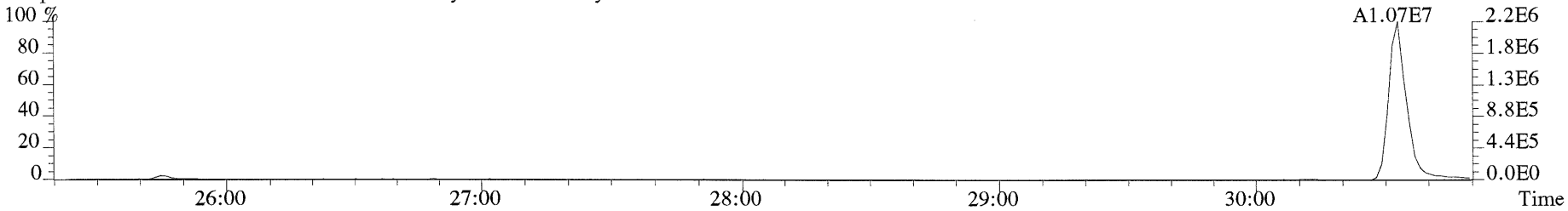
File:25JUL18Z #1-521 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



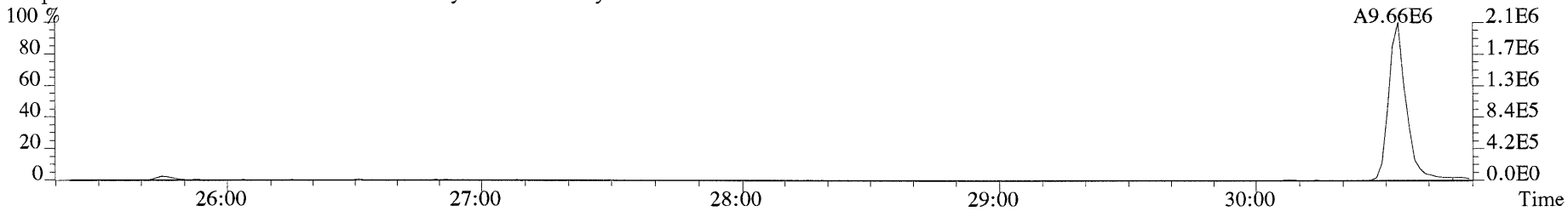
File:25JUL18Z #1-521 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



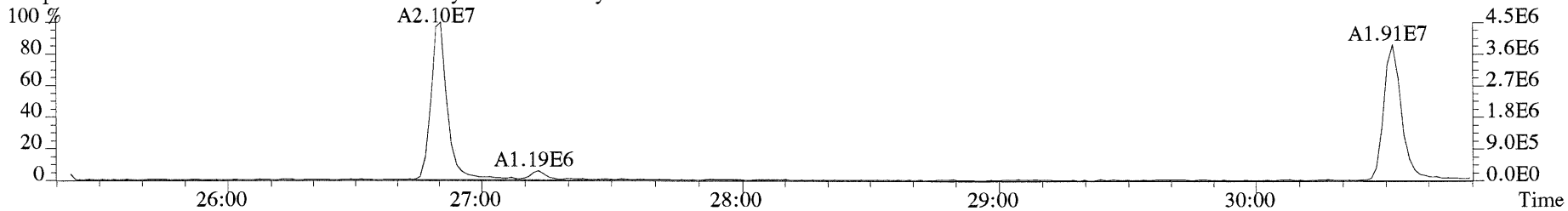
File:25JUL18Z #1-401 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



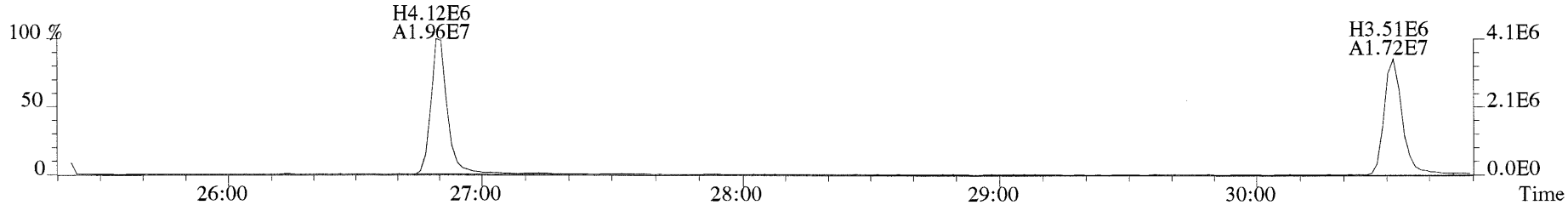
File:25JUL18Z #1-401 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



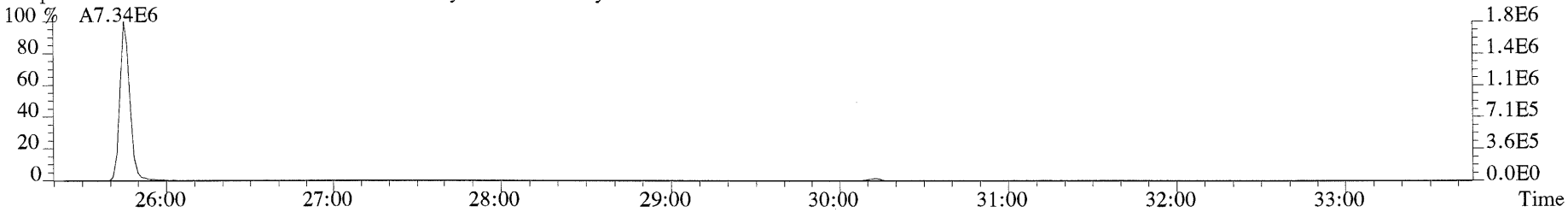
File:25JUL18Z #1-401 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



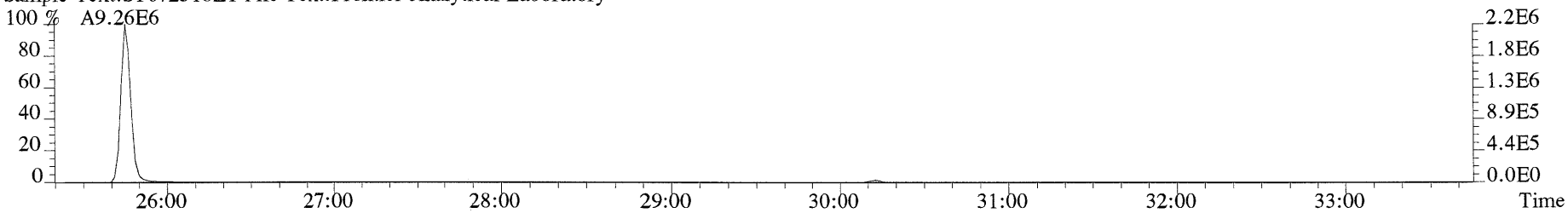
File:25JUL18Z #1-401 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



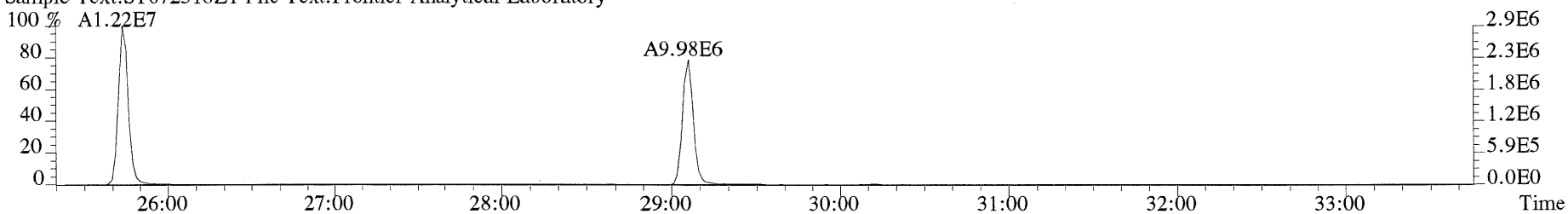
File:25JUL18Z #1-401 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



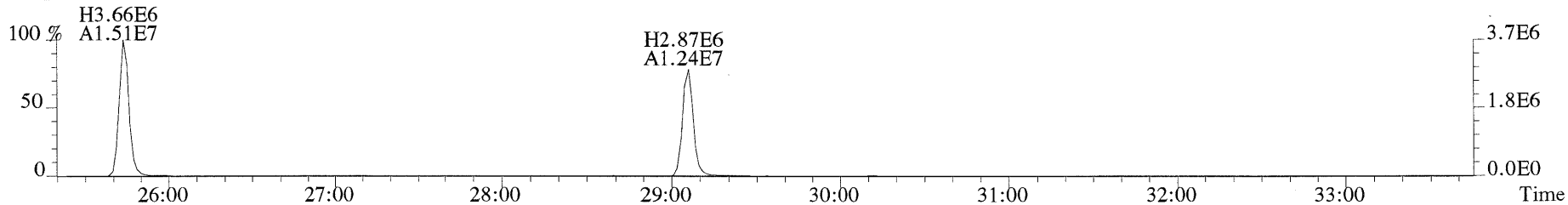
File:25JUL18Z #1-401 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-401 Acq:25-JUL-2018 07:23:19 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:ST072518Z1 File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-401 Acq:25-JUL-2018 07:23:19 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:ST072518Z1 File Text:Frontier Analytical Laboratory



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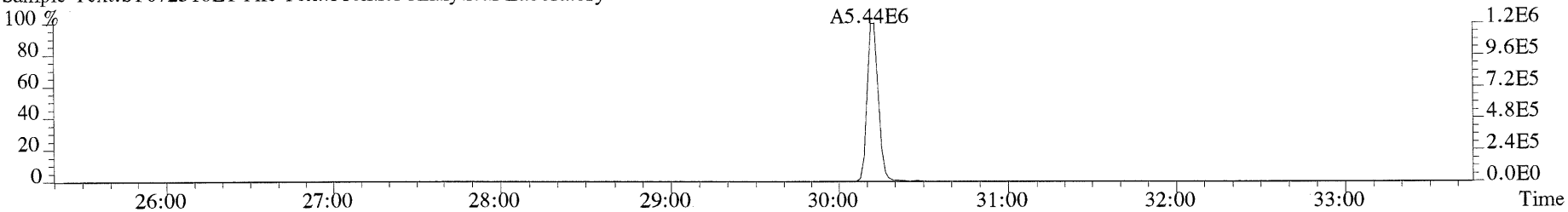
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



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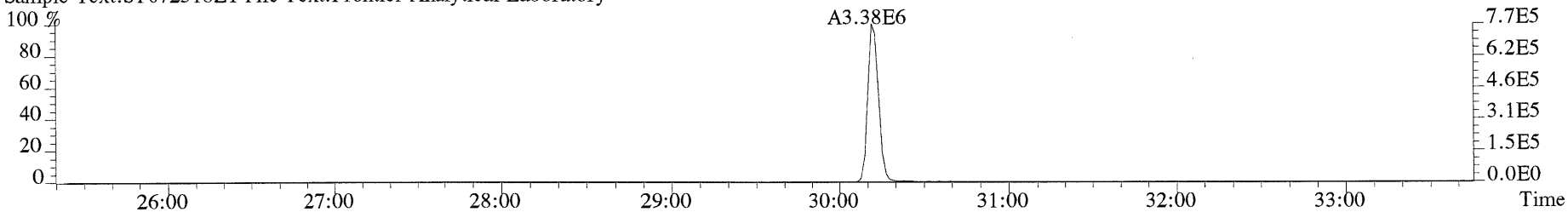
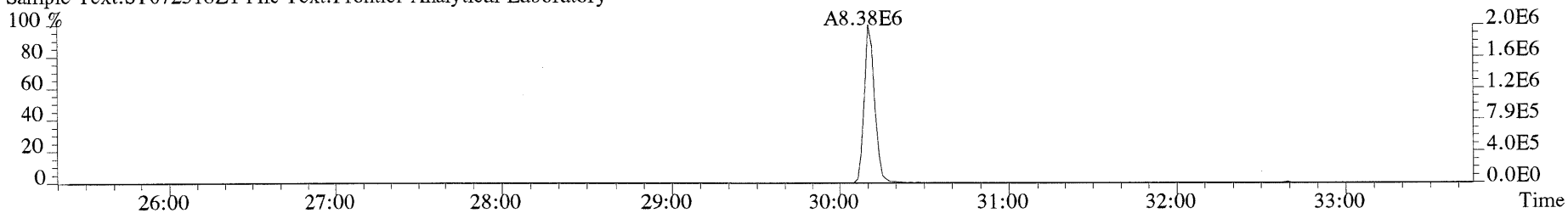
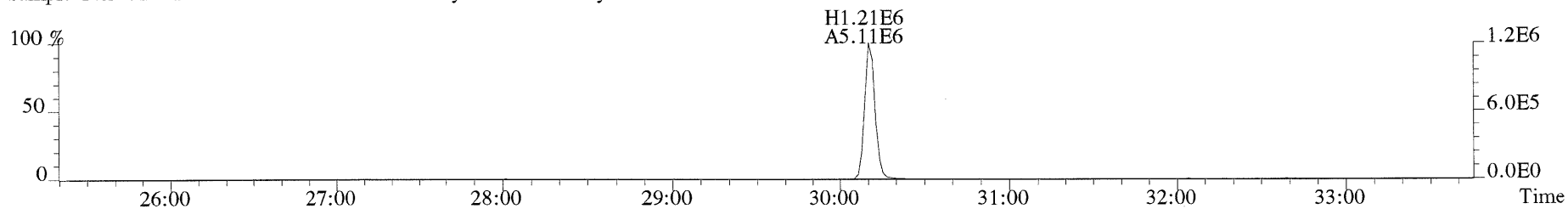
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



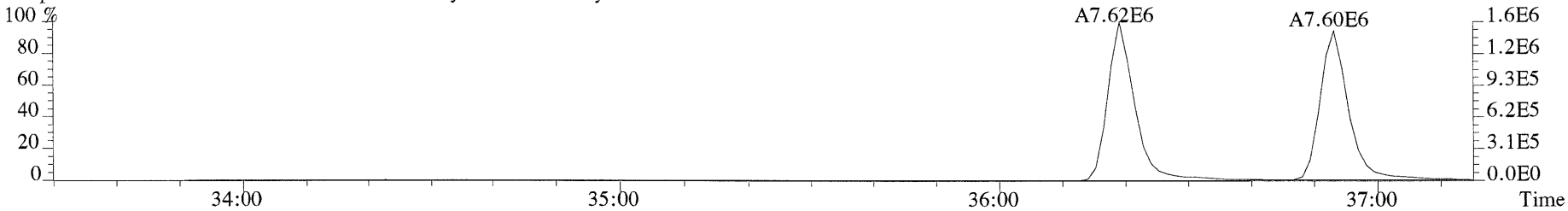
File:25JUL18Z #1-401 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



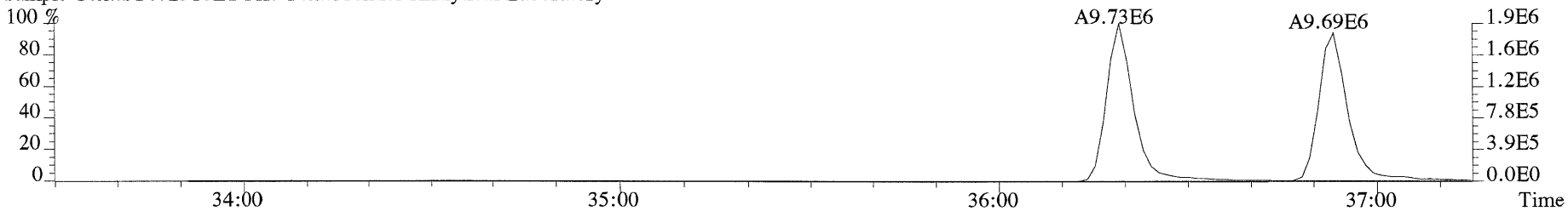
File:25JUL18Z #1-401 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



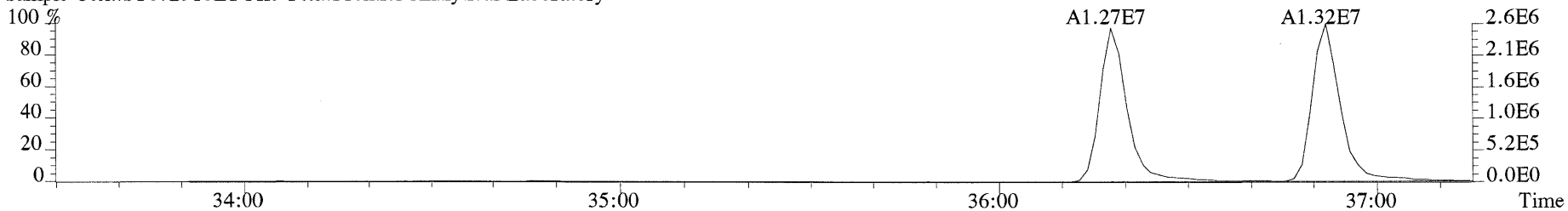
File:25JUL18Z #1-183 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



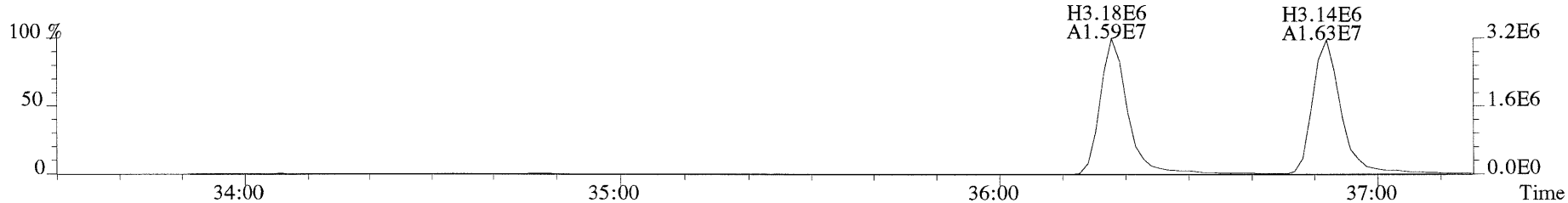
File:25JUL18Z #1-183 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



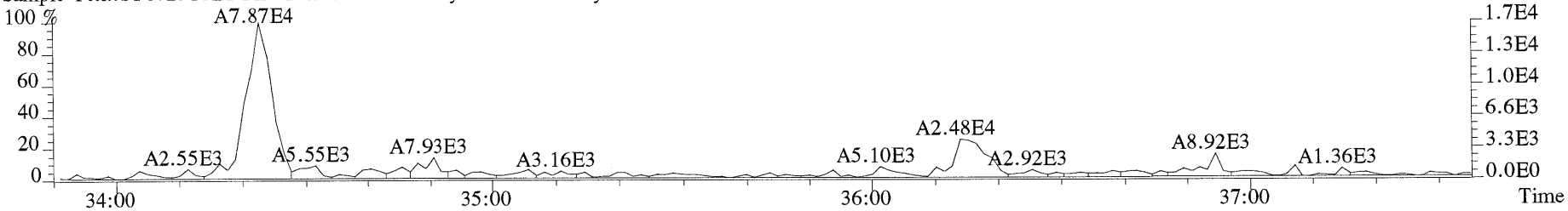
File:25JUL18Z #1-183 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



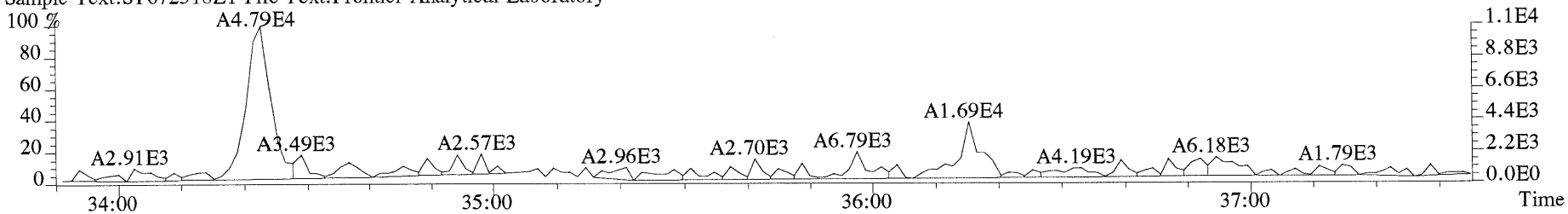
File:25JUL18Z #1-183 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



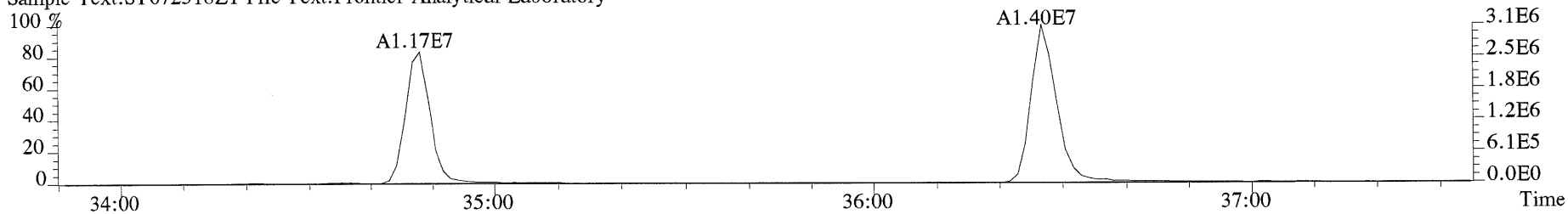
File:25JUL18Z #1-183 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



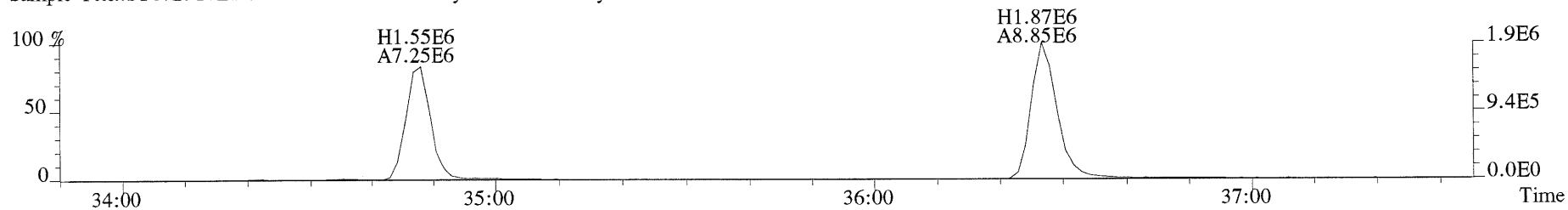
File:25JUL18Z #1-183 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



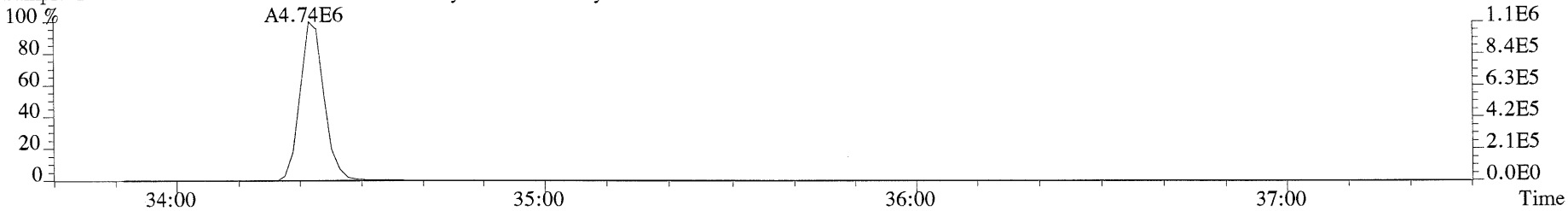
File:25JUL18Z #1-183 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



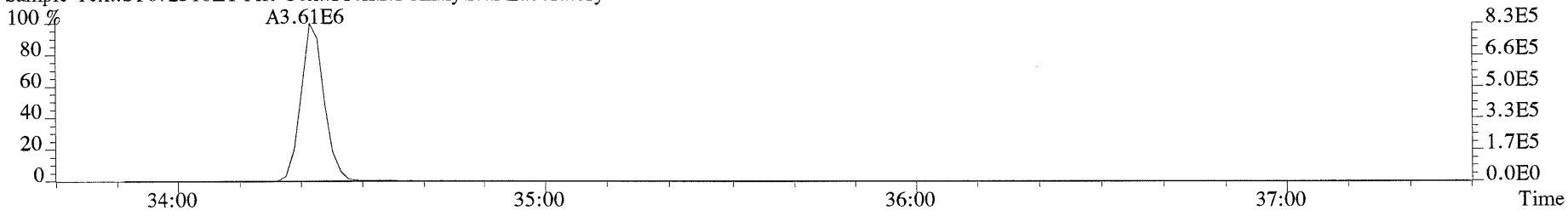
File:25JUL18Z #1-183 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



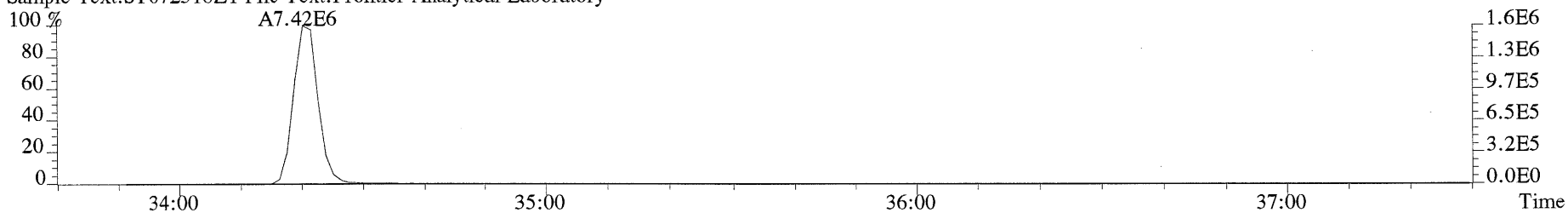
File:25JUL18Z #1-183 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



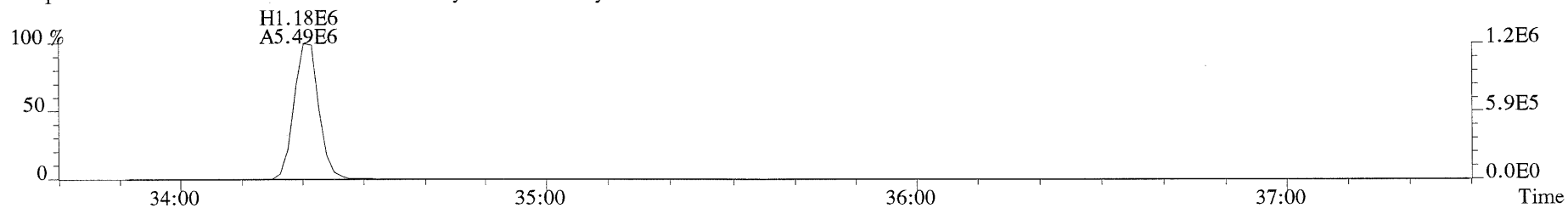
File:25JUL18Z #1-183 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



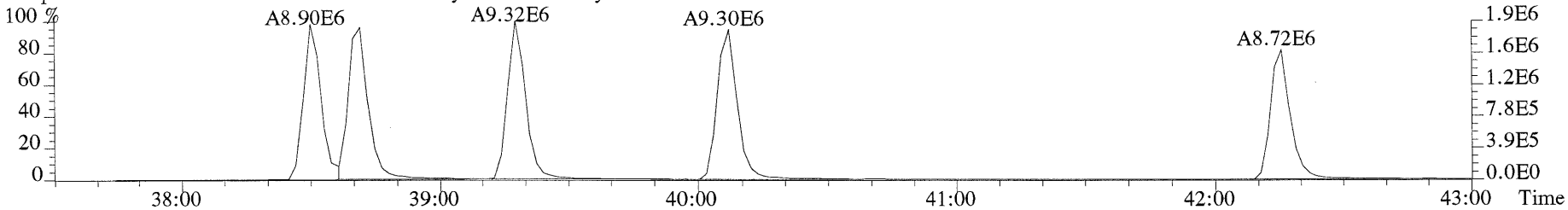
File:25JUL18Z #1-183 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



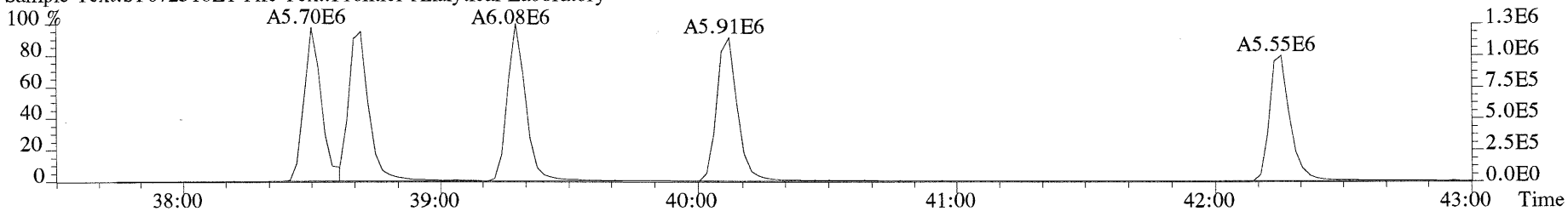
File:25JUL18Z #1-183 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



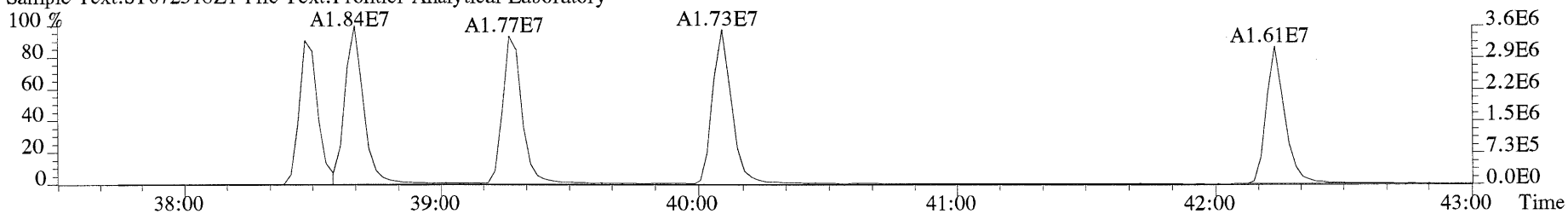
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



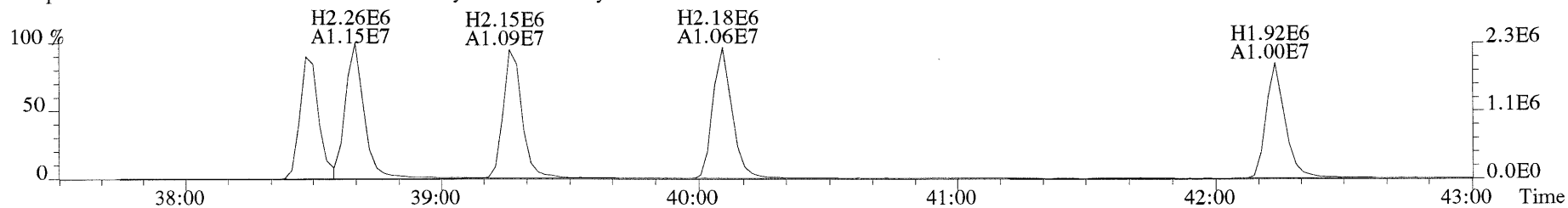
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



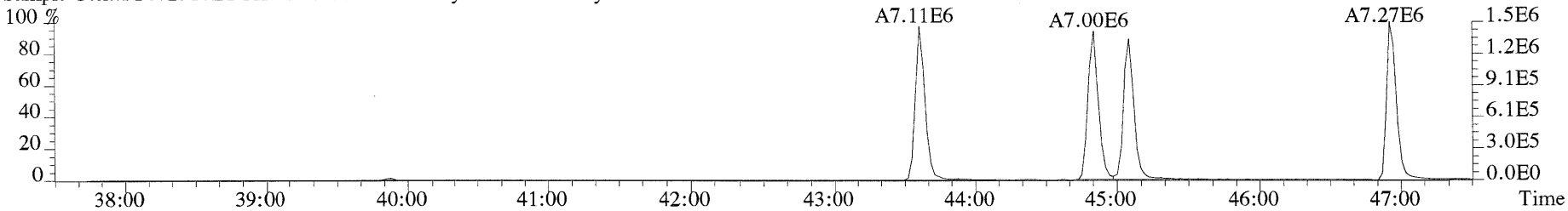
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



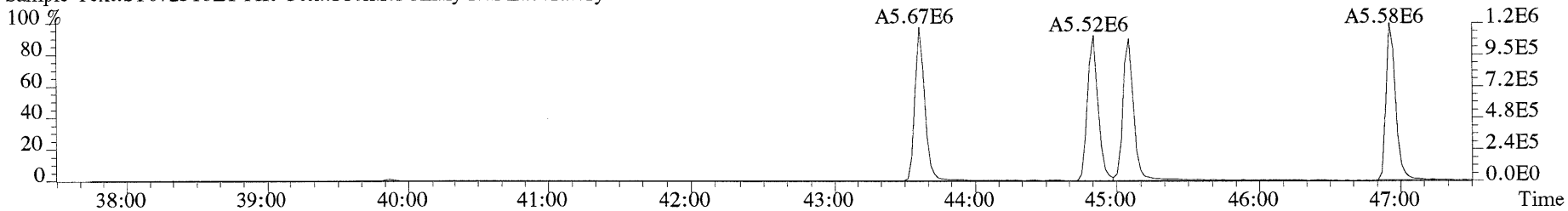
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



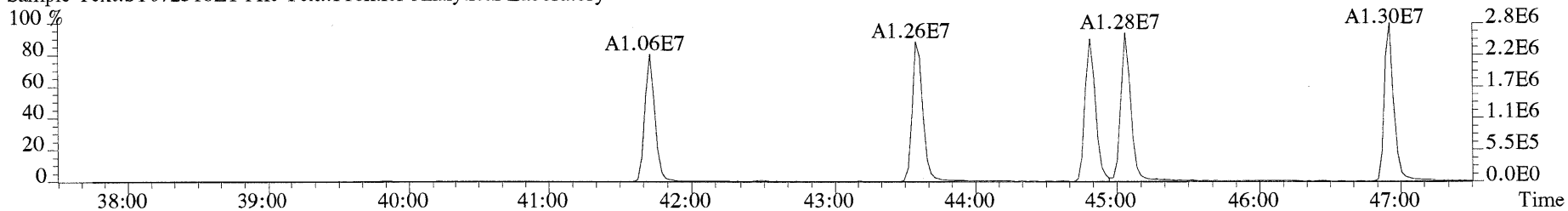
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



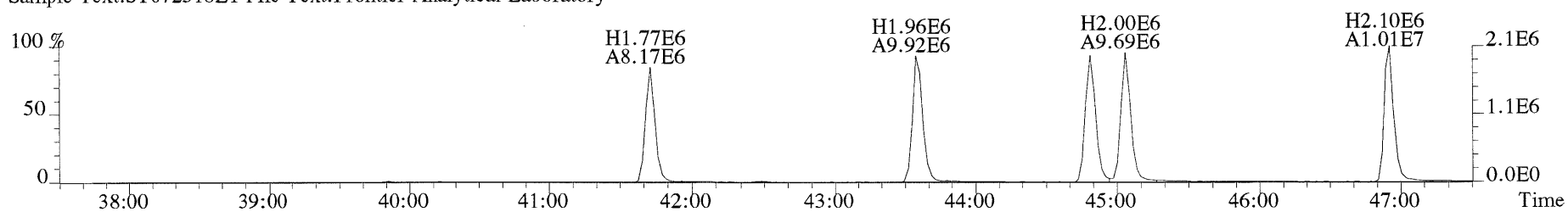
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



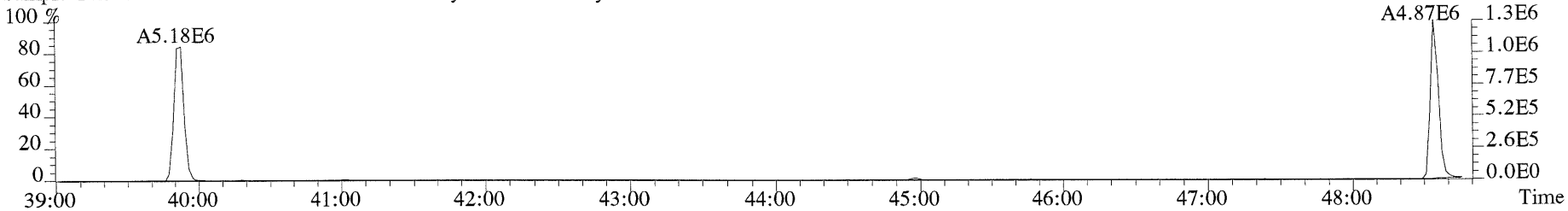
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



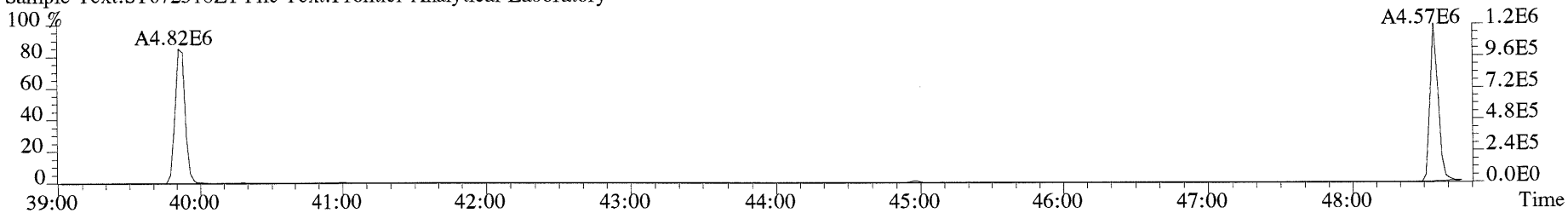
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



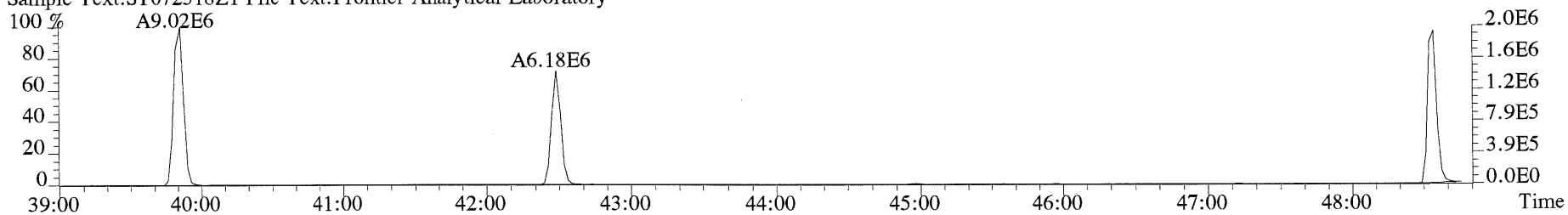
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



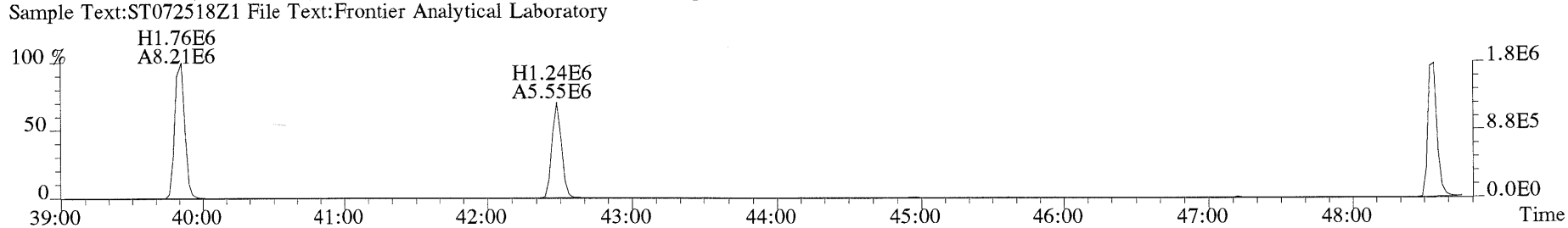
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



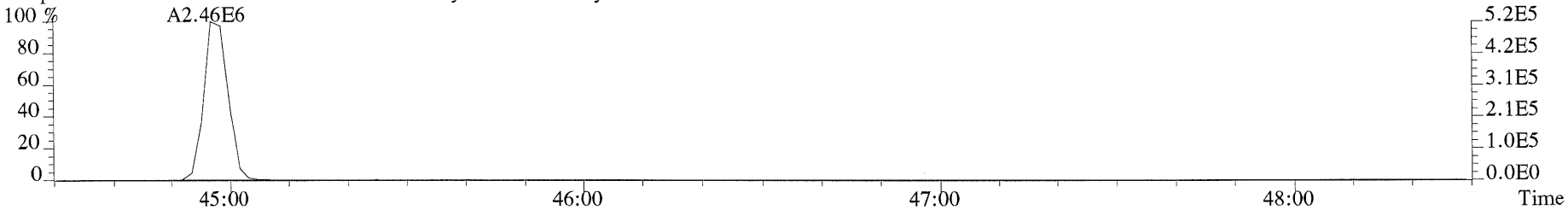
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



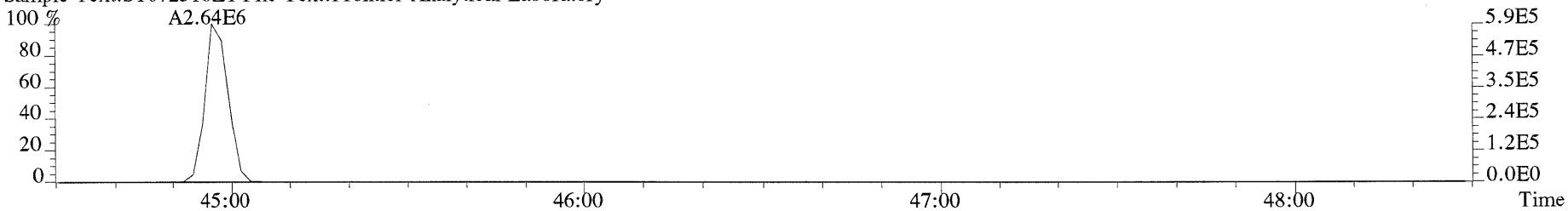
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



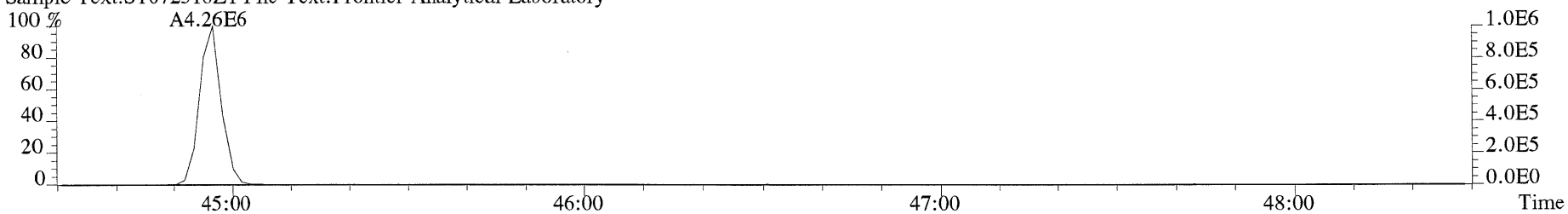
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



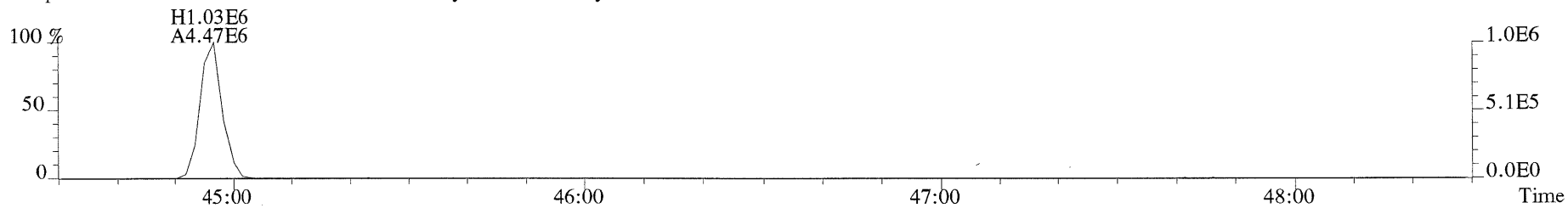
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



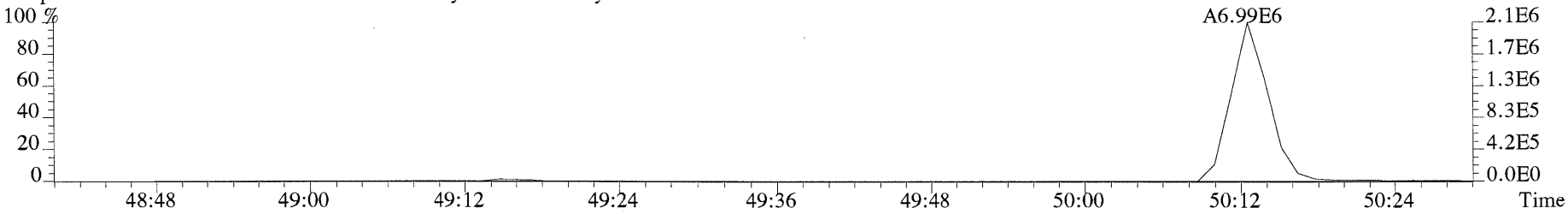
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



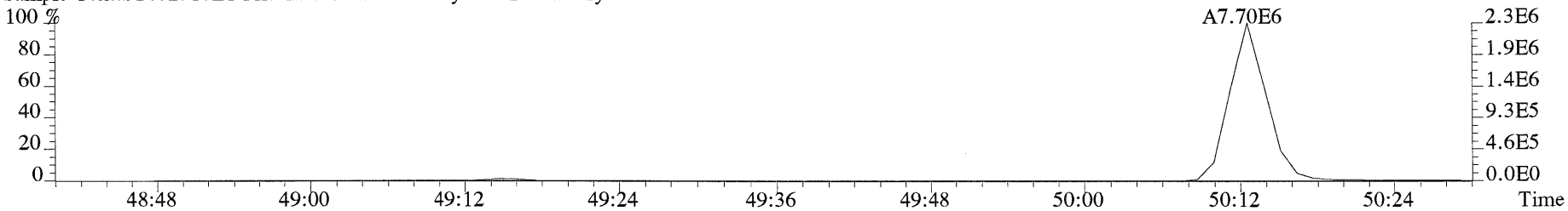
File:25JUL18Z #1-403 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



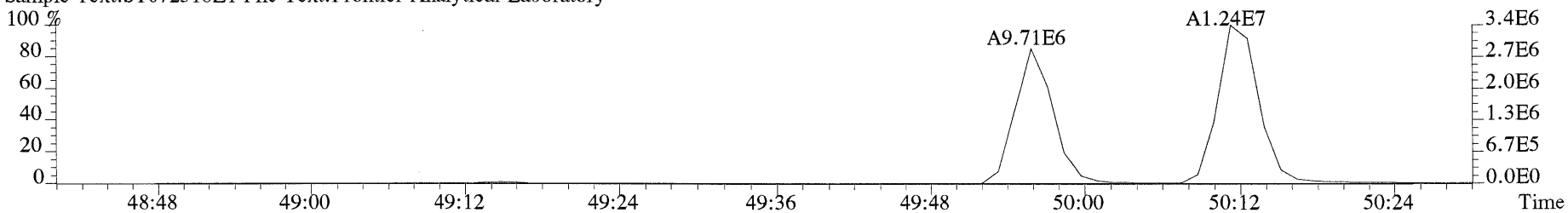
File:25JUL18Z #1-315 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



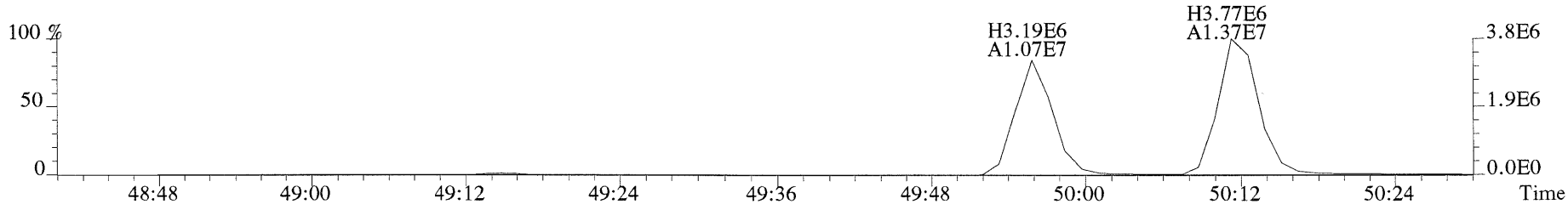
File:25JUL18Z #1-315 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



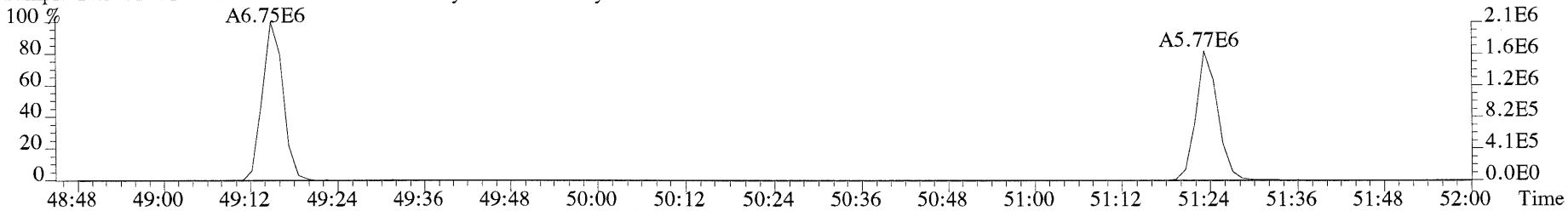
File:25JUL18Z #1-315 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



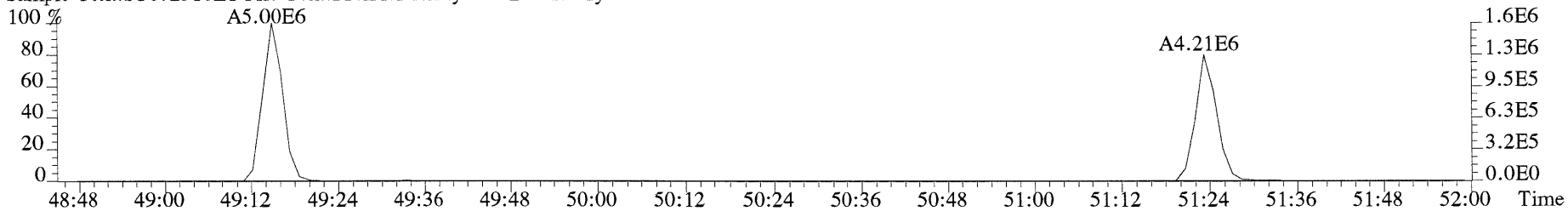
File:25JUL18Z #1-315 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



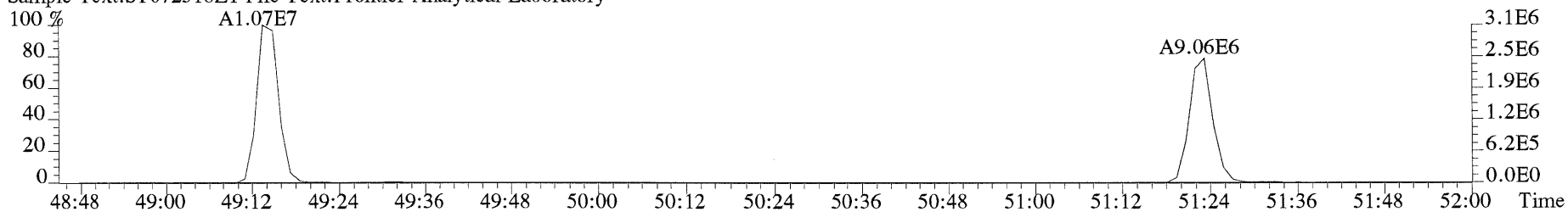
File:25JUL18Z #1-315 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



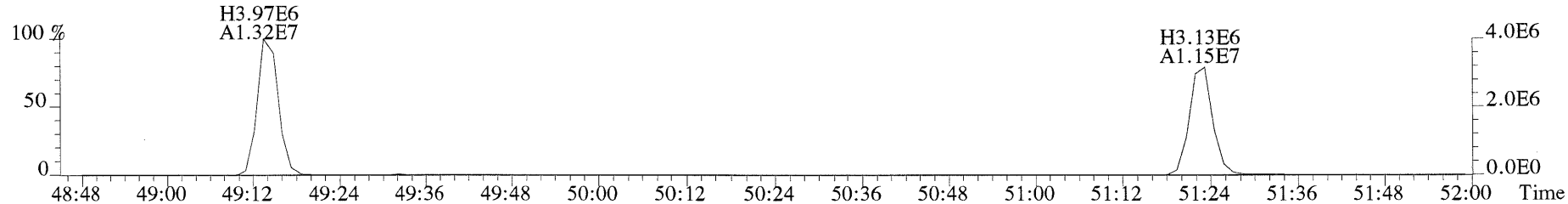
File:25JUL18Z #1-315 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



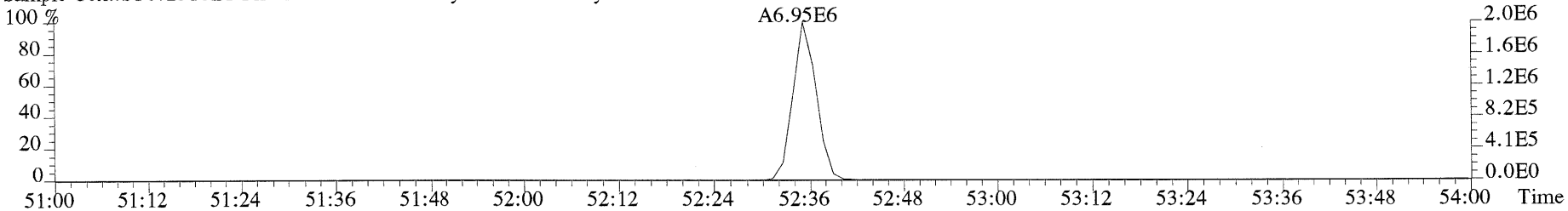
File:25JUL18Z #1-315 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



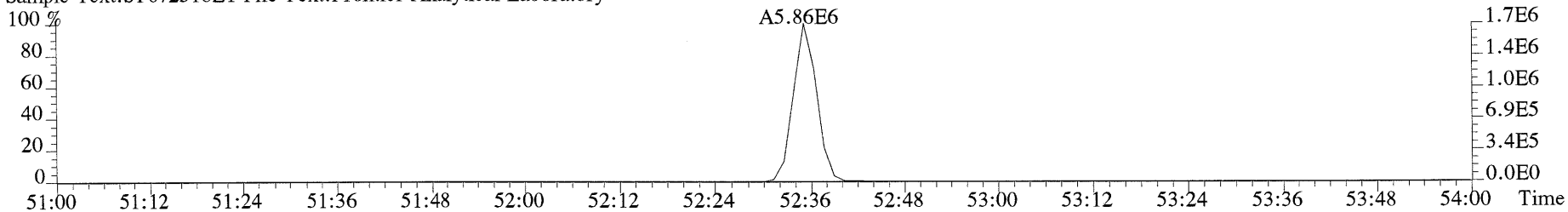
File:25JUL18Z #1-315 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



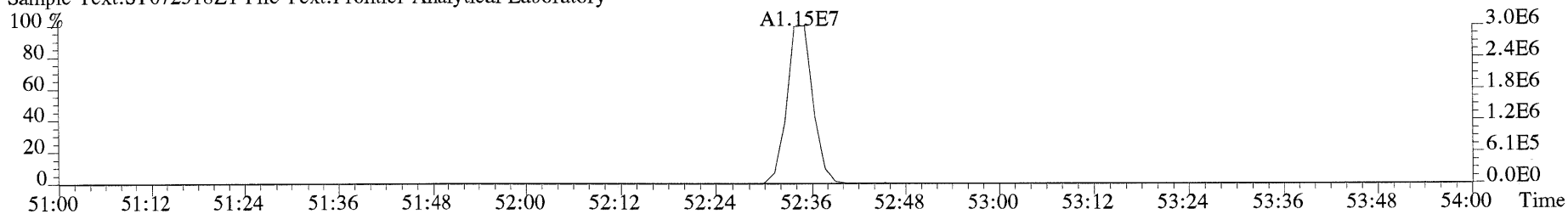
File:25JUL18Z #1-315 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



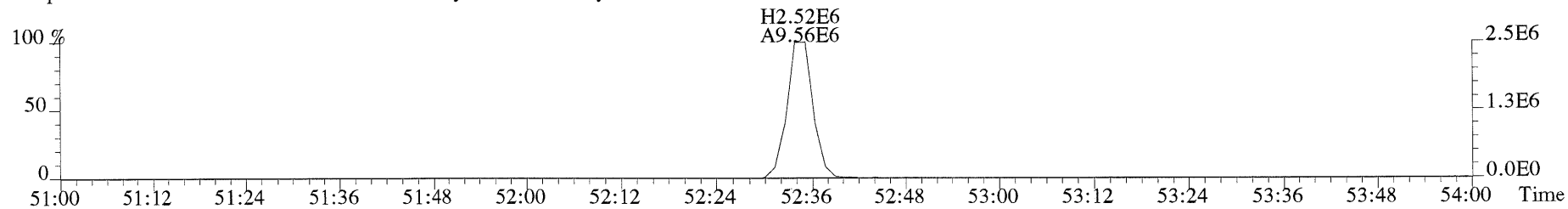
File:25JUL18Z #1-315 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory



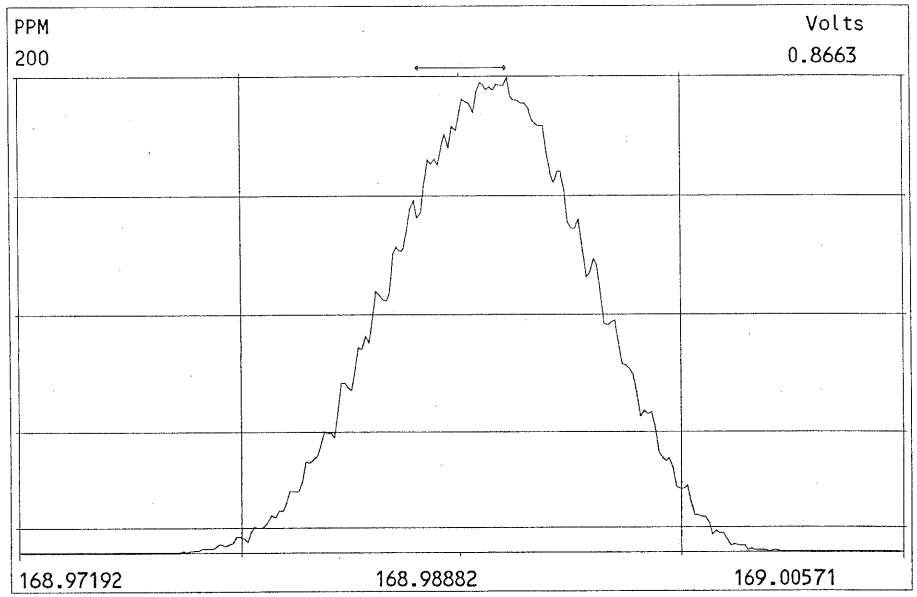
File:25JUL18Z #1-315 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory

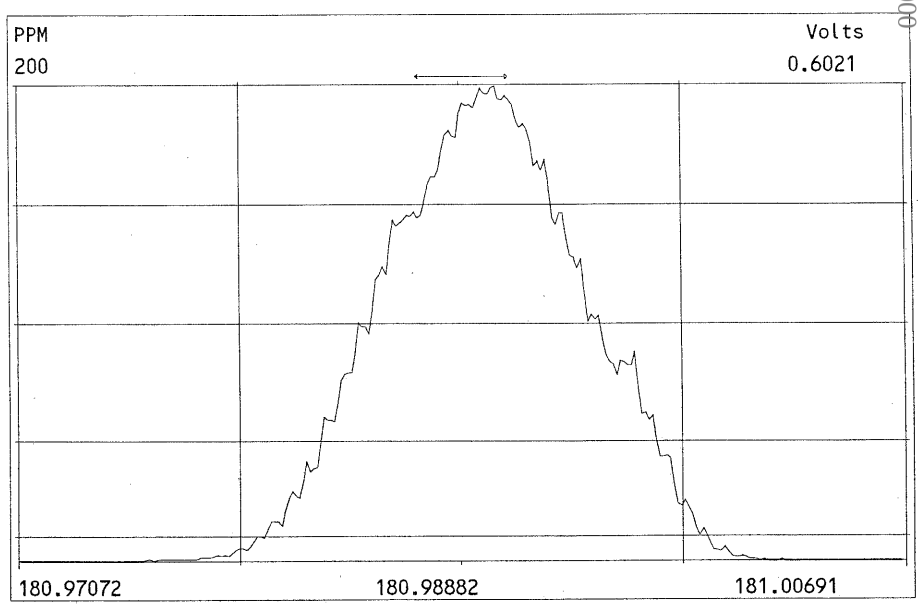


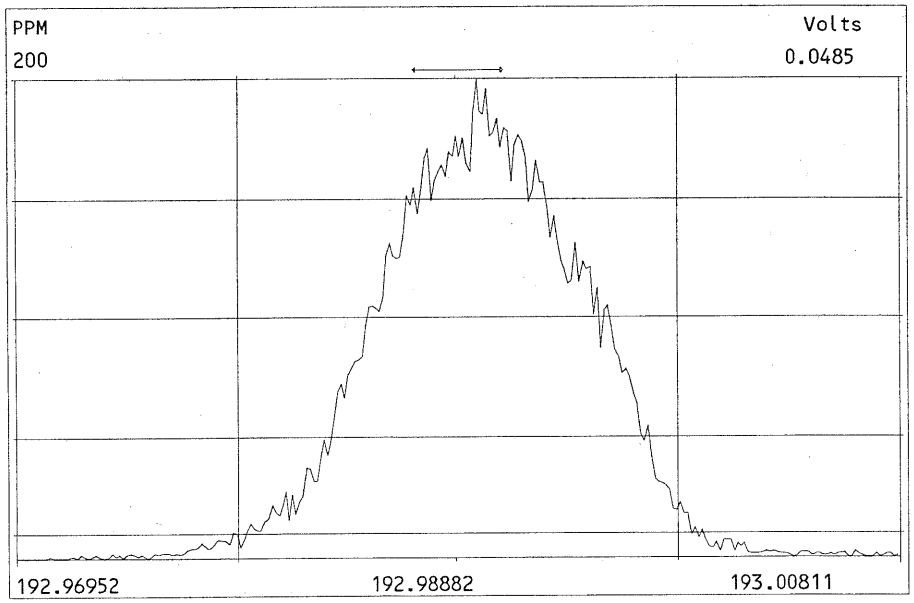
File:25JUL18Z #1-315 Acq:25-JUL-2018 07:23:19 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z1 File Text:Frontier Analytical Laboratory

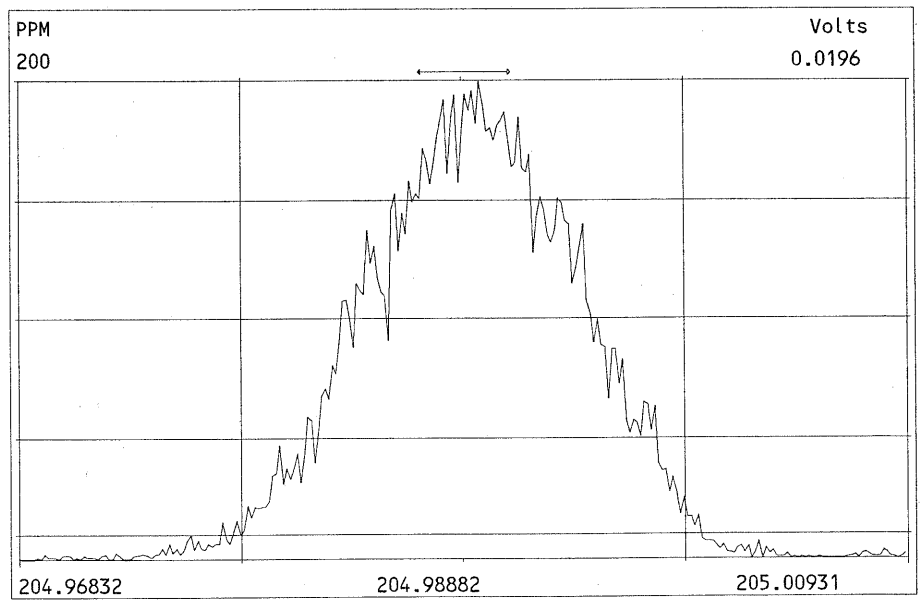


Peak Locate Examination:25-JUL-2018:23:28 File:25JUL18Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK



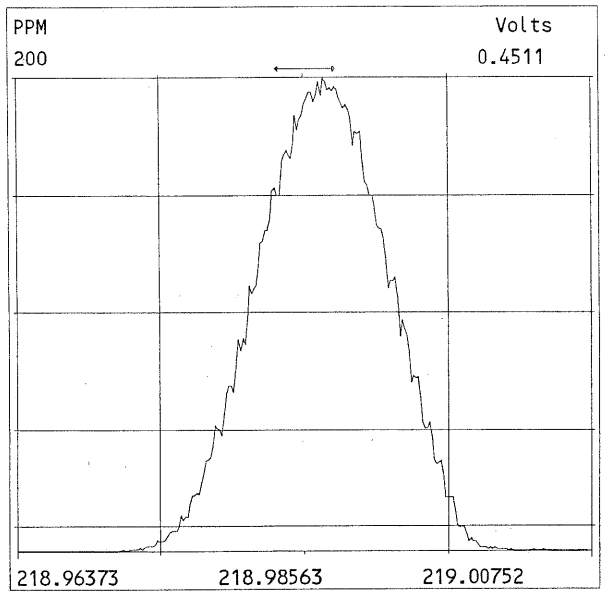


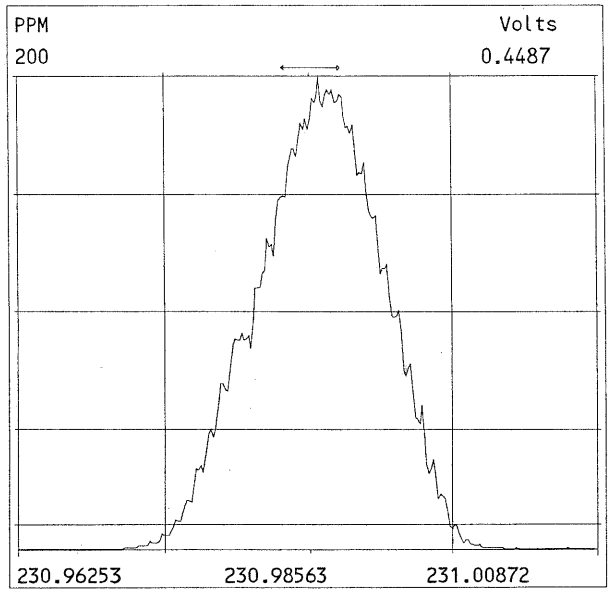


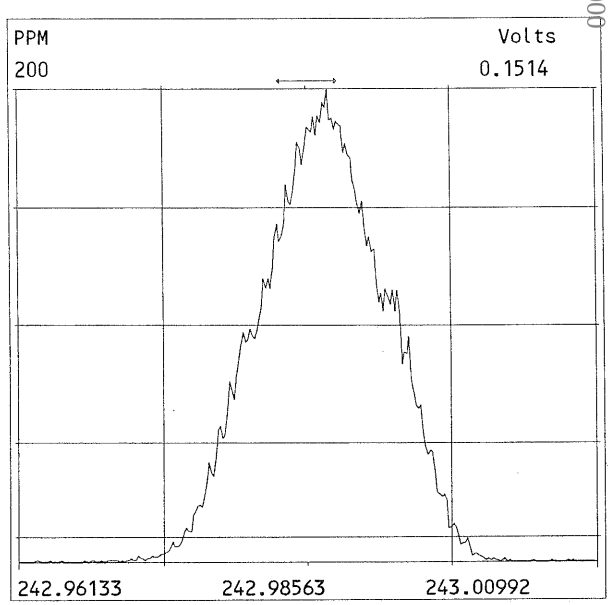


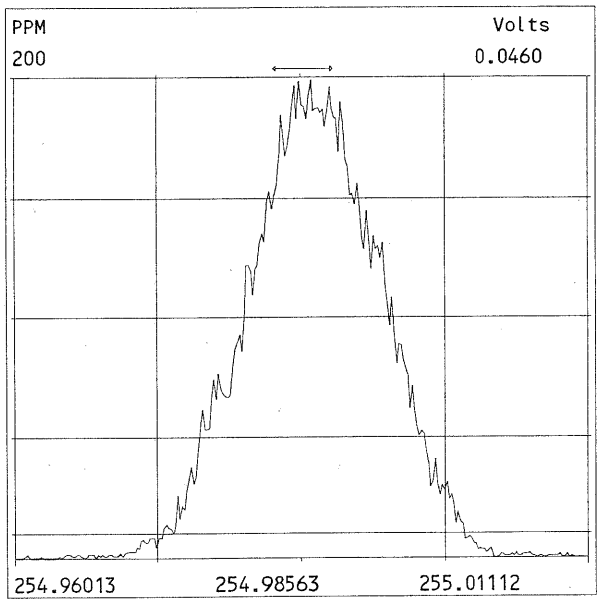
Peak Locate Examination:25-JUL-2018:23:30 File:25JUL18Z_RES_CHECK

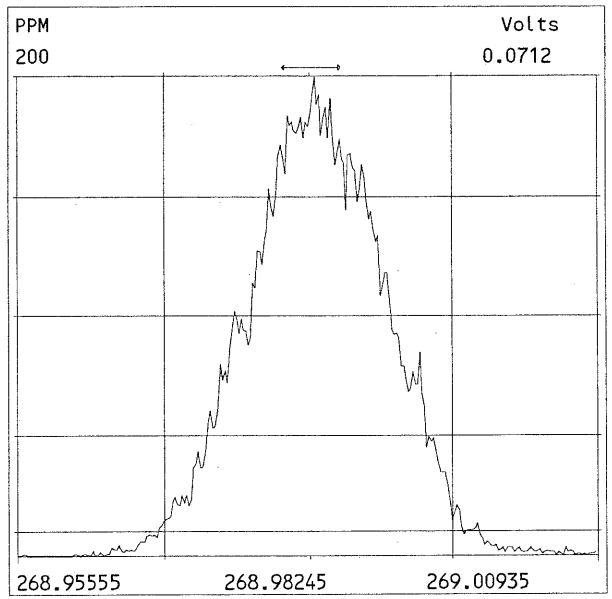
Experiment:1668PCB Function:2 Reference:PFK

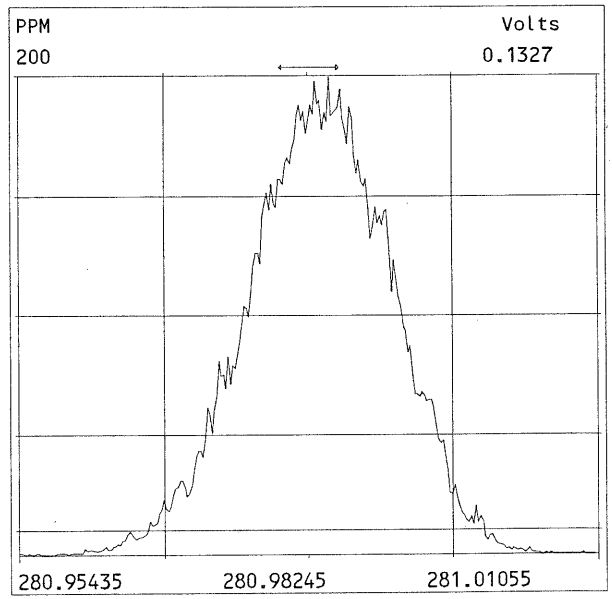




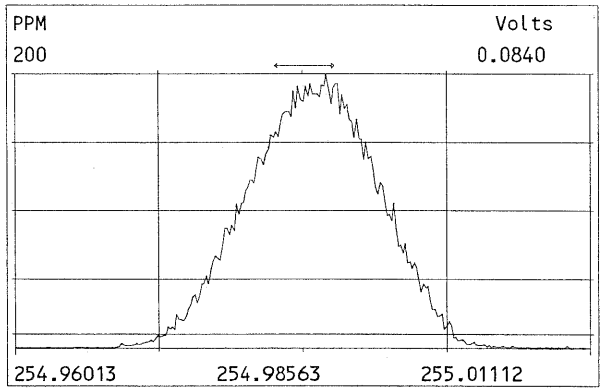


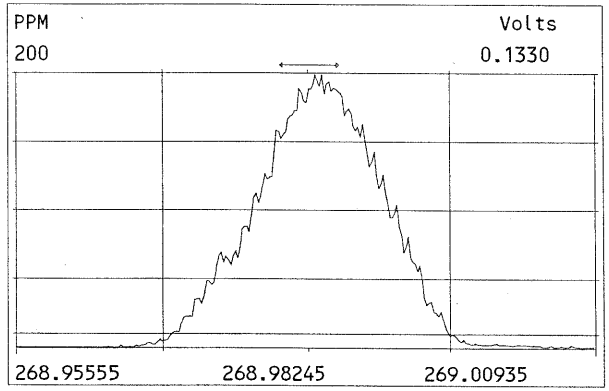


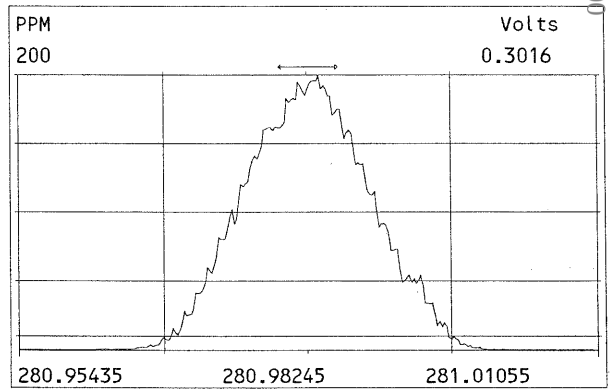


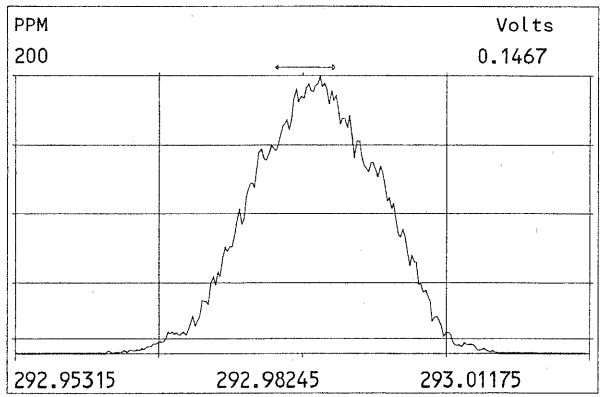


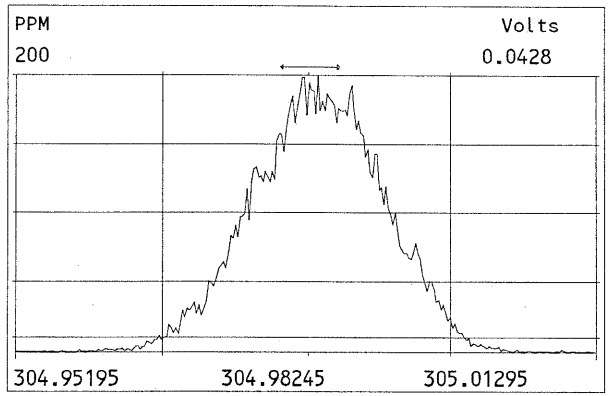
Peak Locate Examination:25-JUL-2018:23:33 File:25JUL18Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

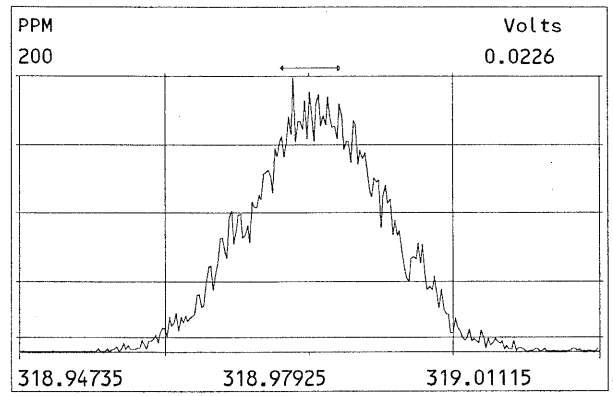


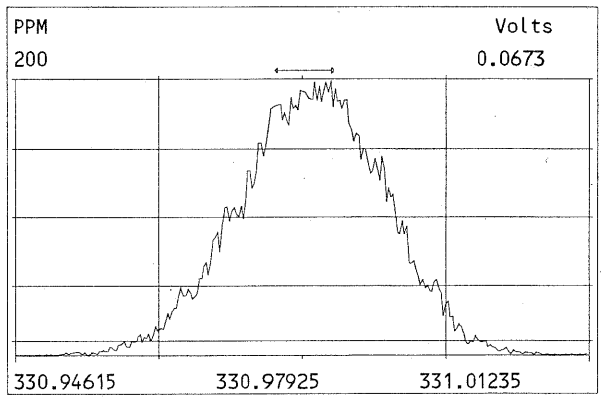


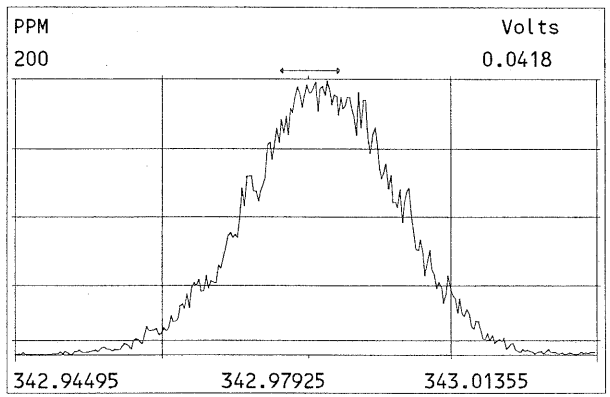




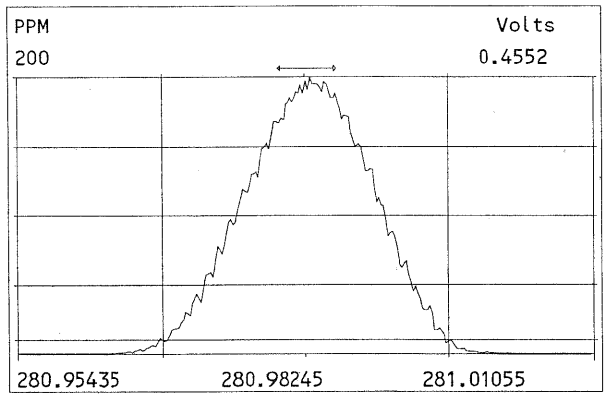


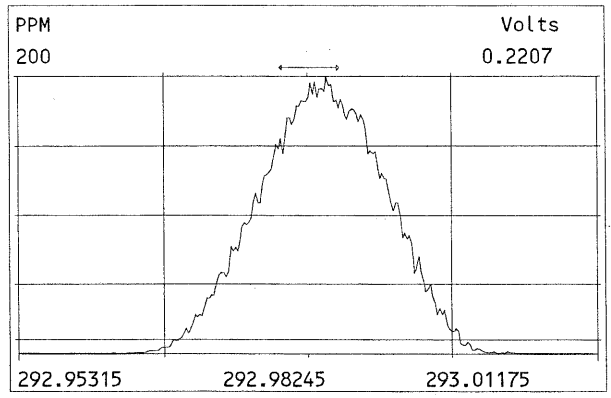


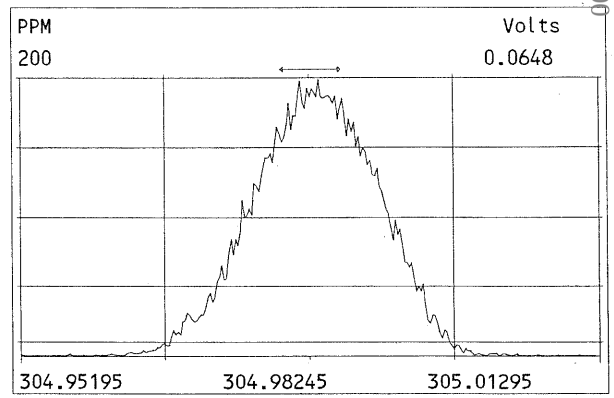


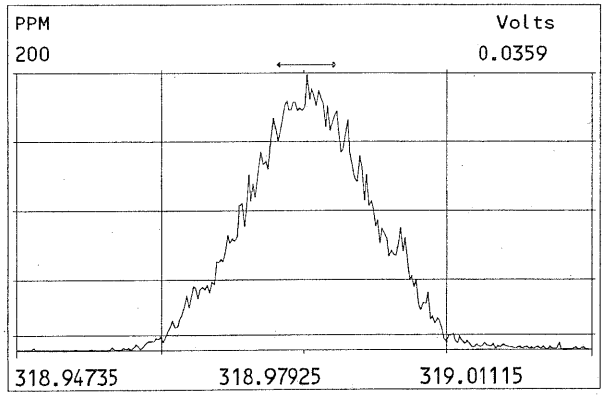


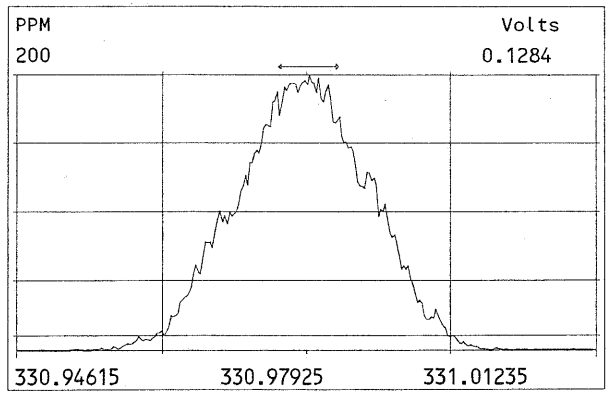
Peak Locate Examination:25-JUL-2018:23:35 File:25JUL18Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

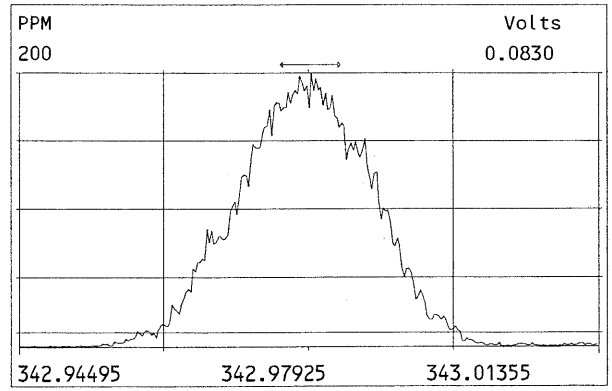


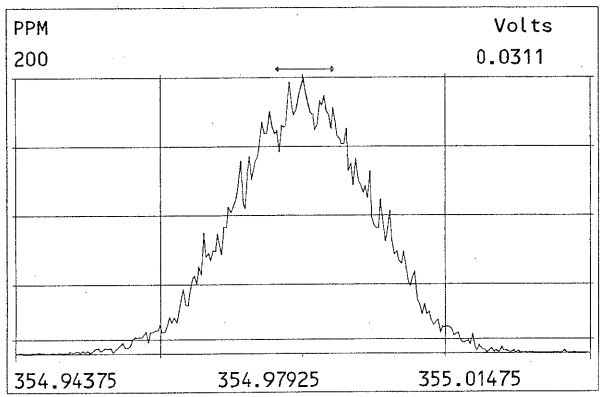


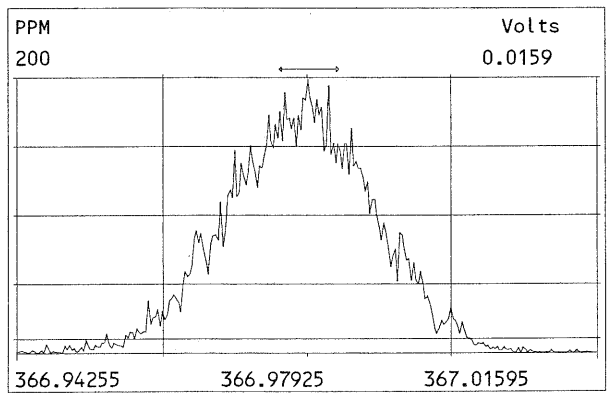


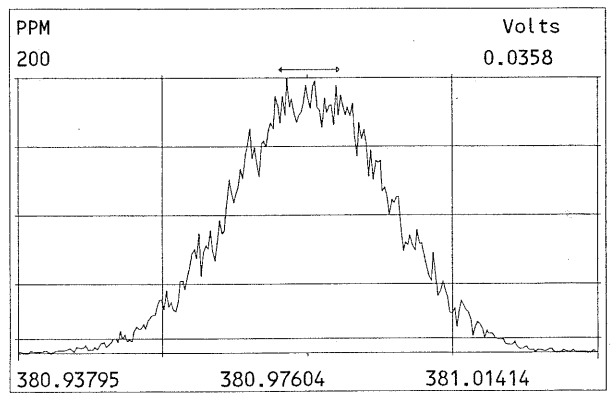




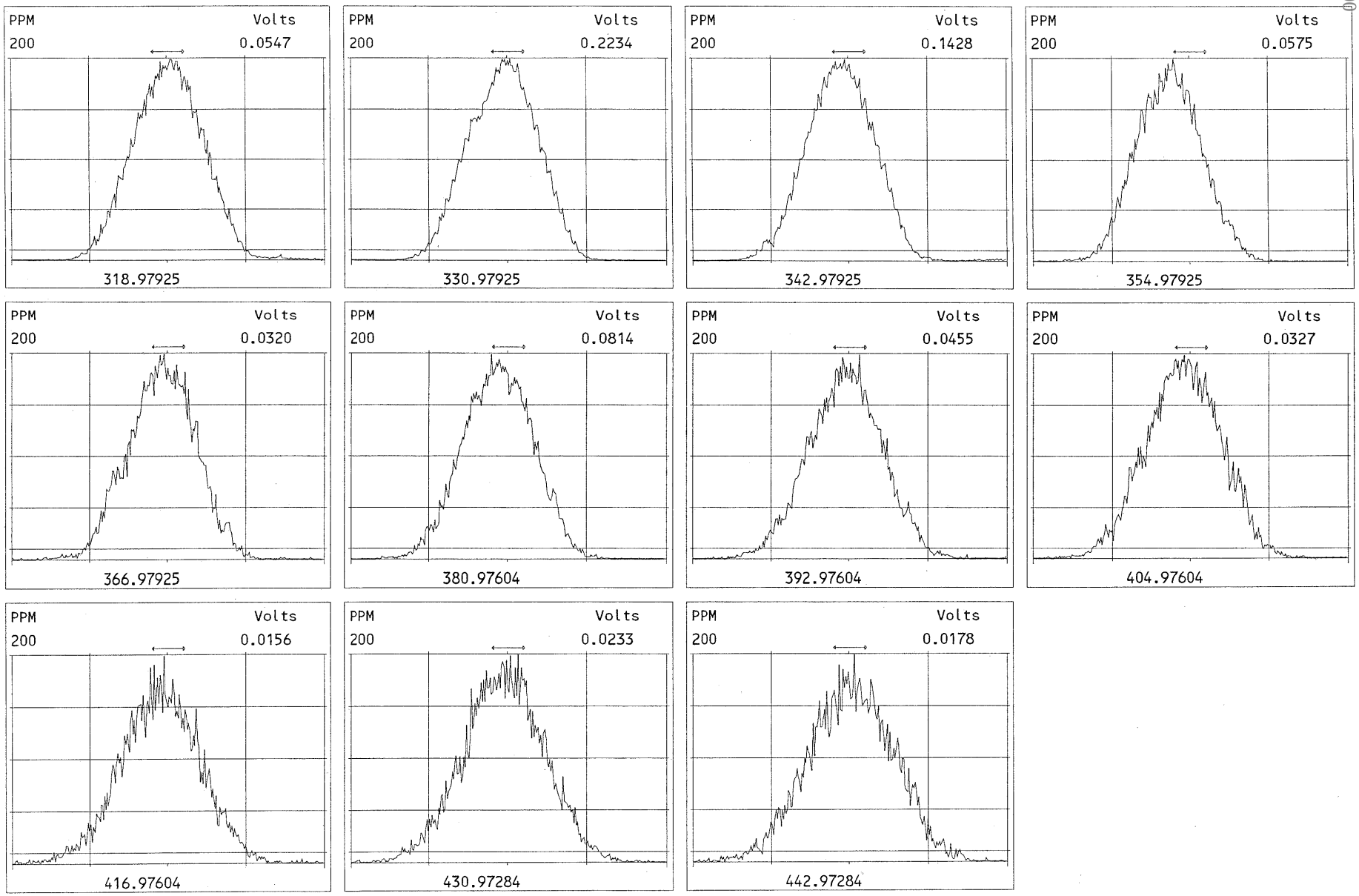




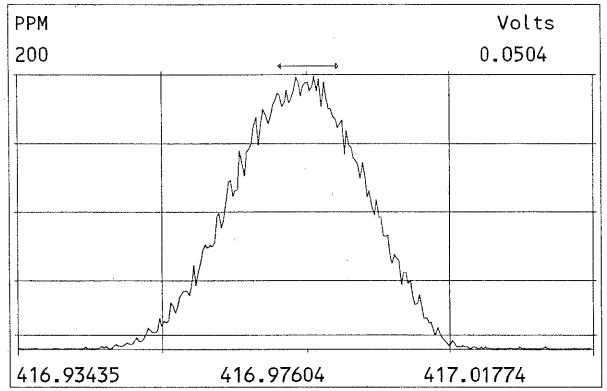


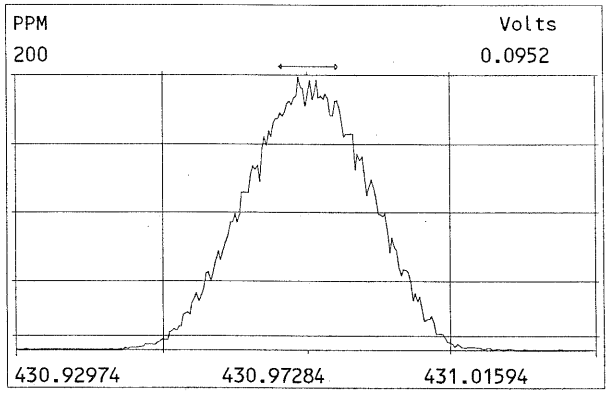


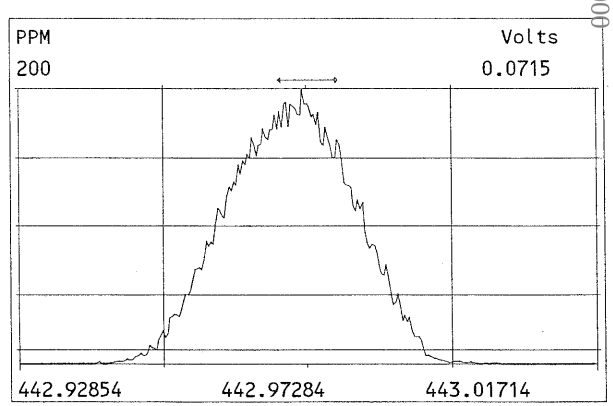
Peak Locate Examination:25-JUL-2018:23:38 File:25JUL18Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

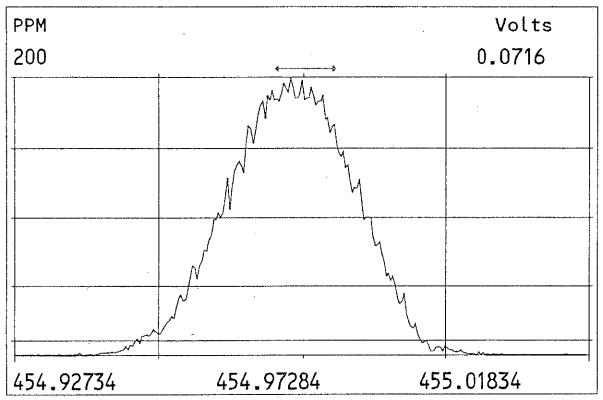


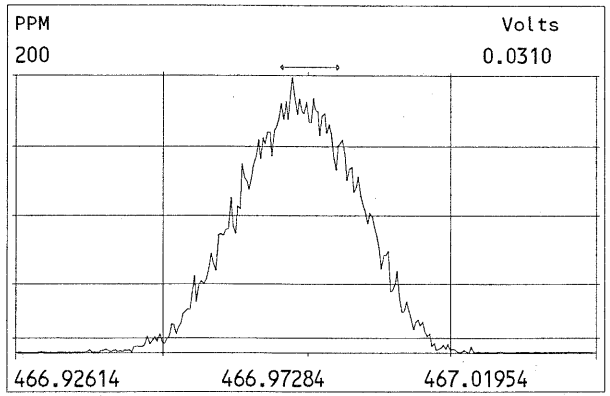
Peak Locate Examination:25-JUL-2018:23:40 File:25JUL18Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

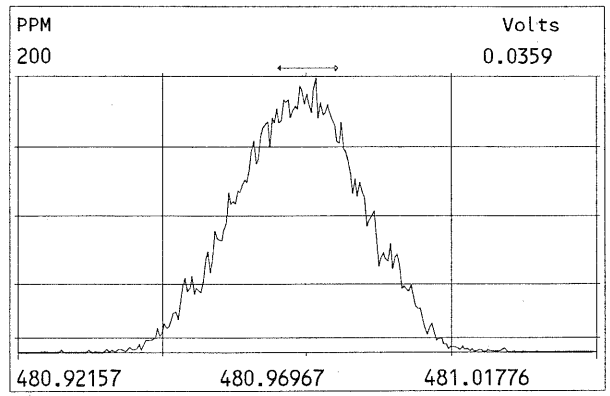


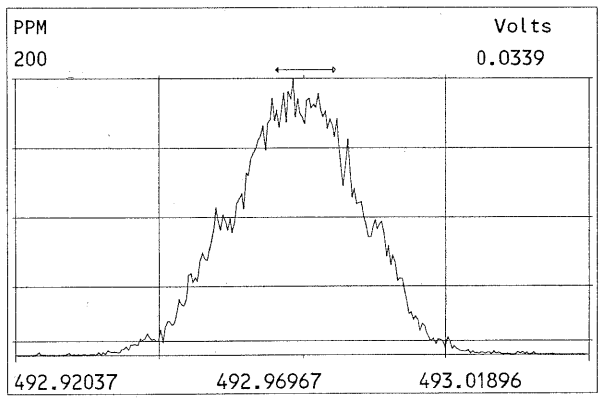


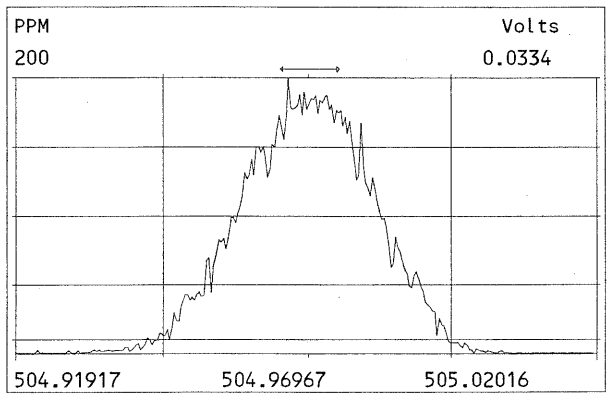


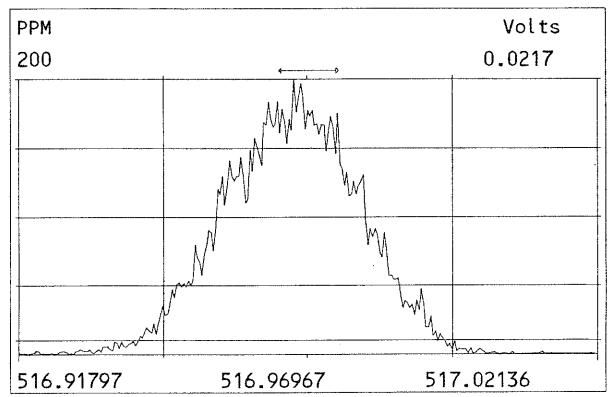












Cal: DAILY209FAL4-7-25-18

Run: 25JUL18Z Analyte: Results: Version: V3.6 21-MAY-2002 15:28:22

Data Filename:25JUL18Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.1870	-	1.19	
13C-PCB-1	0.8049	-	0.80	
PCB-2	1.1008	-	1.10	
PCB-3	1.1712	-	1.17	
13C-PCB-3	0.8476	-	0.85	
PCB-4	1.2552	-	1.26	
PCB-10	1.1455	-	1.15	
13C-PCB-4	0.6343	-	0.63	
PCB-9	1.2794	*	1.28	
PCB-7	1.3012	-	1.30	
PCB-6	1.2756	-	1.28	
PCB-8	1.2805	-	1.28	
PCB-5	1.2908	-	1.29	
PCB-14	1.2268	-	1.23	
PCB-11	1.2022	*	1.20	
PCB-13	1.2378	-	1.24	
PCB-12	1.2525	-	1.25	
PCB-15	1.1213	-	1.12	
13C-PCB-15	0.9510	-	0.95	
PCB-19	1.2614	-	1.26	
PCB-30	1.6996	-	1.70	
PCB-18	1.2065	-	1.21	
PCB-17	1.2942	-	1.29	
PCB-27	1.6394	*	1.64	
PCB-24	1.6770	-	1.68	
PCB-16	1.4237	*	1.42	
PCB-32	1.4394	-	1.44	
13C-PCB-19	0.3986	-	0.40	
13C-PCB-9	-	-	-	
PCB-34	1.0885	-	1.09	
PCB-23	1.1748	-	1.17	
PCB-29	1.1750	-	1.18	
PCB-26	1.1174	-	1.12	
PCB-25	1.3793	-	1.38	
PCB-31	1.1040	-	1.10	
PCB-28	1.3411	-	1.34	
PCB-20	1.1897	-	1.19	Co-elute PCB 21/33
PCB-21	1.1897	-	1.19	Co-elute PCB 20/33
PCB-33	1.1897	-	1.19	Co-elute PCB 20/21
PCB-22	1.1672	-	1.17	
PCB-36	1.0900	-	1.09	
PCB-39	1.1331	-	1.13	
PCB-38	1.1662	-	1.17	
PCB-35	1.0410	-	1.04	
PCB-37	1.2303	-	1.23	
13C-PCB-37	1.6829	-	1.68	

PCB-54	1.1943	-	1.19	
PCB-50	0.8965	-	0.90	
PCB-53	0.9106	-	0.91	
PCB-51	0.9259	-	0.93	
PCB-45	0.7848	-	0.78	
PCB-46	0.7663	-	0.77	
PCB-52	1.0813	*	1.08	Co-elute PCB 69
PCB-69	1.0813	*	1.08	Co-elute PCB 52
PCB-73	1.1883	-	1.19	
PCB-43	0.8780	-	0.88	Co-elute PCB 49
PCB-49	0.8780	-	0.88	Co-elute PCB 43
PCB-47	1.1530	-	1.15	
PCB-48	1.0638	-	1.06	Co-elute PCB 75
PCB-75	1.0638	-	1.06	Co-elute PCB 48
PCB-65	1.0946	*	1.09	
PCB-62	1.1478	-	1.15	
PCB-44	0.8163	-	0.82	
PCB-42	1.0639	-	1.06	Co-elute PCB 59
PCB-59	1.0639	-	1.06	Co-elute PCB 42
PCB-72	1.1474	-	1.15	Co-elute PCB 41/71/64
PCB-41	1.1474	-	1.15	Co-elute PCB 72/71/64
PCB-71	1.1474	-	1.15	Co-elute PCB 72/41/64
PCB-64	1.1474	-	1.15	Co-elute PCB 72/41/71
PCB-68	1.2541	-	1.25	
PCB-40	0.7058	-	0.71	
PCB-57	1.1344	-	1.13	
PCB-67	1.1182	-	1.12	
PCB-58	1.1825	-	1.18	
PCB-63	1.1355	-	1.14	
PCB-74	1.2117	-	1.21	
PCB-61	1.2320	*	1.23	Co-elute PCB 70
PCB-70	1.2320	*	1.23	Co-elute PCB 61
PCB-76	1.2054	*	1.21	Co-elute PCB 66
PCB-66	1.2054	*	1.21	Co-elute PCB 76
PCB-80	1.2999	*	1.30	
PCB-55	1.1968	*	1.20	
13C-PCB-54	1.1118	-	1.11	
PCB-104	1.3532	-	1.35	
PCB-96	1.2221	-	1.22	
PCB-103	1.0459	-	1.05	
PCB-100	1.0724	-	1.07	
PCB-94	0.8982	-	0.90	
PCB-98	0.9871	-	0.99	Co-elute PCB 102
PCB-102	0.9871	-	0.99	Co-elute PCB 98
PCB-95	1.0812	*	1.08	
PCB-93	0.9837	-	0.98	
PCB-88	1.0559	-	1.06	Co-elute PCB 91
PCB-91	1.0559	-	1.06	Co-elute PCB 88
PCB-121	1.0977	-	1.10	
13C-PCB-104	0.5028	-	0.50	
13C-PCB-28	1.9657	-	1.97	
13C-PCB-52	-	-	-	

PCB-56	1.0797	-	1.08	Co-elute PCB 60
PCB-60	1.0797	-	1.08	Co-elute PCB 56
PCB-79	1.1369	-	1.14	
PCB-78	1.0943	-	1.09	
PCB-81	1.1443	-	1.14	
13C-PCB-81	1.5661	-	1.57	
PCB-77	1.1076	-	1.11	
13C-PCB-77	1.6063	-	1.61	
PCB-155	1.2384	-	1.24	
PCB-150	1.1264	-	1.13	
PCB-152	1.0576	-	1.06	
PCB-145	1.1035	-	1.10	
PCB-136	1.0585	-	1.06	
PCB-148	0.8391	-	0.84	
PCB-154	0.9735	-	0.97	
13C-PCB-155	0.6726	-	0.67	
13C-PCB-111	1.1561	-	1.16	
13C-PCB-101	-	-	-	
PCB-84	0.6109	-	0.61	Co-elute PCB 92
PCB-92	0.6109	-	0.61	Co-elute PCB 84
PCB-89	0.5813	-	0.58	
PCB-90	0.6794	-	0.68	Co-elute PCB 101
PCB-101	0.6794	-	0.68	Co-elute PCB 90
PCB-113	0.7680	-	0.77	
PCB-99	0.7476	-	0.75	
PCB-119	0.8146	-	0.81	
PCB-83	0.6882	-	0.69	Co-elute PCB 112
PCB-112	0.6882	-	0.69	Co-elute PCB 83
PCB-109	0.8212	-	0.82	
PCB-97	0.7276	-	0.73	
PCB-86	0.7041	*	0.70	
PCB-125	0.7239	-	0.72	Co-elute PCB 87/117
PCB-87	0.7239	-	0.72	Co-elute PCB 125/117
PCB-117	0.7239	-	0.72	Co-elute PCB 125/87
PCB-111	0.9946	-	0.99	Co-elute PCB 115
PCB-115	0.9946	-	0.99	Co-elute PCB 111
PCB-85	0.7083	-	0.71	Co-elute PCB 116
PCB-116	0.7083	-	0.71	Co-elute PCB 85
PCB-120	0.8132	-	0.81	
PCB-110	0.9586	-	0.96	
PCB-82	0.4990	-	0.50	
PCB-124	0.9070	-	0.91	
PCB-108	1.0748	-	1.07	Co-elute PCB 107
PCB-107	1.0748	-	1.07	Co-elute PCB 108
PCB-123	1.2345	-	1.23	
13C-PCB-123	1.3977	-	1.40	
PCB-118	1.0338	-	1.03	Co-elute PCB 106
PCB-106	1.0338	-	1.03	Co-elute PCB 118
13C-PCB-118	1.5315	-	1.53	
PCB-114	1.0689	-	1.07	
13C-PCB-114	1.4624	-	1.46	
PCB-122	1.0989	-	1.10	
PCB-105	1.0782	-	1.08	
13C-PCB-105	1.4395	-	1.44	
PCB-127	0.9897	-	0.99	
PCB-126	1.1154	-	1.12	
13C-PCB-126	1.3463	-	1.35	

PCB-151	0.8492	-	0.85	
PCB-135	0.8230	-	0.82	
PCB-144	0.9306	-	0.93	
PCB-147	0.9228	-	0.92	
PCB-139	0.9768	-	0.98	Co-elute PCB 149
PCB-149	0.9768	-	0.98	Co-elute PCB 139
PCB-140	0.9540	-	0.95	
PCB-143	0.8966	-	0.90	Co-elute PCB 134
PCB-134	0.8966	-	0.90	Co-elute PCB 143
PCB-131	0.9043	-	0.90	Co-elute PCB 133
PCB-133	0.9043	-	0.90	Co-elute PCB 131
PCB-142	0.7719	-	0.77	
PCB-165	1.0508	-	1.05	Co-elute PCB 146
PCB-146	1.0508	-	1.05	Co-elute PCB 165
PCB-161	0.9958	-	1.00	Co-elute PCB 132
PCB-132	0.9958	-	1.00	Co-elute PCB 161
PCB-153	1.0097	-	1.01	
PCB-168	1.1550	-	1.15	
PCB-141	0.8890	-	0.89	
PCB-137	0.9020	-	0.90	
PCB-130	0.7589	-	0.76	
PCB-138	1.1737	-	1.17	Co-elute PCB 163/164
PCB-163	1.1737	-	1.17	Co-elute PCB 138/164
PCB-164	1.1737	-	1.17	Co-elute PCB 138/163
PCB-158	1.1807	-	1.18	Co-elute PCB 160
PCB-160	1.1807	-	1.18	Co-elute PCB 158
PCB-129	0.7681	-	0.77	
PCB-166	1.0804	-	1.08	
PCB-159	1.1935	-	1.19	
PCB-128	0.9799	-	0.98	Co-elute PCB 162
PCB-162	0.9799	-	0.98	Co-elute PCB 128
PCB-167	1.0548	-	1.05	
13C-PCB-167	1.1211	-	1.12	
PCB-156	1.1054	-	1.11	
13C-PCB-156	1.0744	-	1.07	
PCB-157	1.1441	-	1.14	
13C-PCB-157	1.1164	-	1.12	
PCB-169	1.0682	-	1.07	
13C-PCB-169	1.0806	-	1.08	
PCB-188	1.2081	-	1.21	
13C-PCB-188	0.7995	-	0.80	

PCB-184	1.2491	-	1.25	
PCB-179	1.1521	-	1.15	
PCB-176	1.1385	-	1.14	
PCB-186	1.1905	-	1.19	
PCB-178	0.8264	-	0.83	
PCB-175	0.8841	-	0.88	
PCB-187	0.9914	-	0.99	Co-elute PCB 182
PCB-182	0.9914	-	0.99	Co-elute PCB 187
PCB-183	0.9325	-	0.93	
PCB-185	0.8845	-	0.88	
PCB-174	0.8912	-	0.89	
PCB-181	0.9041	-	0.90	
PCB-177	0.7926	-	0.79	
PCB-171	0.8536	-	0.85	
PCB-173	0.8023	-	0.80	
PCB-172	0.7958	-	0.80	
PCB-192	1.1107	-	1.11	
PCB-180	1.0926	-	1.09	
PCB-193	1.1616	-	1.16	
PCB-191	1.0813	-	1.08	
PCB-170	0.7742	-	0.77	
PCB-190	1.0888	-	1.09	
PCB-189	1.1658	-	1.17	
13C-PCB-189	0.7285	-	0.73	
PCB-202	1.0342	-	1.03	
PCB-201	1.0241	-	1.02	
PCB-204	1.0002	-	1.00	
PCB-197	1.0827	-	1.08	
PCB-200	1.0062	-	1.01	
PCB-198	0.7435	-	0.74	
PCB-199	0.8354	-	0.84	
PCB-203	0.8665	-	0.87	Co-elute PCB 196
PCB-196	0.8665	-	0.87	Co-elute PCB 203
13C-PCB-202	0.4379	-	0.44	
13C-PCB-178	0.6037	-	0.60	
13C-PCB-138	-	-	-	
PCB-195	0.7061	-	0.71	
PCB-194	0.7917	-	0.79	
PCB-205	1.0707	-	1.07	
13C-PCB-205	1.2302	-	1.23	
PCB-208	1.0123	-	1.01	
13C-PCB-208	0.9710	-	0.97	
PCB-207	0.9750	*	0.98	
PCB-206	1.0009	-	1.00	
13C-PCB-206	0.8770	-	0.88	
PCB-209	1.1179	-	1.12	
13C-PCB-209	0.9660	-	0.97	
13C-PCB-194	-	-	-	

Analyst: _____ Date: 7/26/13

Run #1 Filename 25JUL18Z S: 2 Acquired: 25-JUL-18 08:21:39 Cal: DAILY209FAL4-7-25-18
Client ID: SS072518Z1 Analyte: FAL ID: Daily 209 171222A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	5.49e+07	3.20 y	14:36	-	1.19	
2	IS/RT	13C-PCB-1	100.00	9.24e+07	3.27 y	14:35	-	0.805	
3	Unk	PCB-2	50.00	5.22e+07	3.24 y	16:50	-	1.10	
4	Unk	PCB-3	50.00	5.70e+07	3.24 y	17:03	-	1.17	
5	IS/RT	13C-PCB-3	100.00	9.73e+07	3.34 y	17:02	-	0.848	
6	Unk	PCB-4	50.00	4.57e+07	1.51 y	18:17	-	1.26	
7	Unk	PCB-10	50.00	5.21e+07	1.61 y	18:20	-	1.15	
8	IS/RT	13C-PCB-4	100.00	7.28e+07	1.61 y	18:16	-	0.634	
9	Unk	PCB-9	50.00	5.82e+07	1.51 y	19:59	-	1.28	
10	Unk	PCB-7	50.00	5.92e+07	1.61 y	20:01	-	1.30	
11	Unk	PCB-6	50.00	5.81e+07	1.55 y	20:37	-	1.28	
12	Unk	PCB-8	50.00	5.83e+07	1.56 y	21:00	-	1.28	
13	Unk	PCB-5	50.00	5.88e+07	1.60 y	21:01	-	1.29	
14	Unk	PCB-14	50.00	5.58e+07	1.57 y	22:03	-	1.23	
15	Unk	PCB-11	50.00	5.47e+07	1.62 y	23:10	-	1.20	
16	Unk	PCB-13	50.00	5.63e+07	1.55 y	23:31	-	1.24	
17	Unk	PCB-12	50.00	5.70e+07	1.61 y	23:34	-	1.25	
18	Unk	PCB-15	50.00	6.12e+07	1.55 y	23:52	-	1.12	
19	IS/RT	13C-PCB-15	100.00	1.09e+08	1.62 y	23:50	-	0.951	
20	Unk	PCB-19	50.00	2.89e+07	1.07 y	22:10	-	1.26	
21	Unk	PCB-30	50.00	3.89e+07	1.07 y	23:02	-	1.70	
22	Unk	PCB-18	50.00	2.76e+07	1.06 y	23:44	-	1.21	
23	Unk	PCB-17	50.00	2.96e+07	1.08 y	23:54	-	1.29	
24	Unk	PCB-27	50.00	3.75e+07	1.09 y	24:26	-	1.64	
25	Unk	PCB-24	50.00	3.84e+07	1.07 y	24:27	-	1.68	
26	Unk	PCB-16	50.00	3.26e+07	1.05 y	24:55	-	1.42	
27	Unk	PCB-32	50.00	3.29e+07	1.08 y	24:57	-	1.44	
28	IS/RT	13C-PCB-19	100.00	4.58e+07	1.10 y	22:09	-	0.399	
29	RS	13C-PCB-9	100.00	1.15e+08	1.59 y	19:57	1.15e+06	-	
30	Unk	PCB-34	50.00	5.14e+07	1.04 y	25:42	-	1.09	
31	Unk	PCB-23	50.00	5.55e+07	1.07 y	25:47	-	1.17	
32	Unk	PCB-29	50.00	5.55e+07	1.06 y	26:01	-	1.18	
33	Unk	PCB-26	50.00	5.28e+07	1.06 y	26:14	-	1.12	
34	Unk	PCB-25	50.00	6.51e+07	1.07 y	26:23	-	1.38	
35	Unk	PCB-31	50.00	5.21e+07	1.19 y	26:43	-	1.10	
36	Unk	PCB-28	50.00	6.33e+07	0.95 y	26:49	-	1.34	
37	Unk	PCB-20	150.00	1.69e+08	1.05 y	27:23	-	1.19	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	1.69e+08	1.05 y	27:23	-	1.19	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	1.69e+08	1.05 y	27:23	-	1.19	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	5.51e+07	1.06 y	27:49	-	1.17	
41	Unk	PCB-36	50.00	5.15e+07	1.07 y	28:25	-	1.09	
42	Unk	PCB-39	50.00	5.35e+07	1.07 y	28:52	-	1.13	
43	Unk	PCB-38	50.00	5.51e+07	1.06 y	29:36	-	1.17	
44	Unk	PCB-35	50.00	4.92e+07	1.07 y	30:05	-	1.04	
45	Unk	PCB-37	50.00	5.81e+07	1.06 y	30:30	-	1.23	
46	IS	13C-PCB-37	100.00	9.45e+07	1.08 y	30:29	-	1.68	

47	Unk	PCB-54	100.00	7.45e+07	0.80	y	25:43	-	1.19	
48	Unk	PCB-50	100.00	5.59e+07	0.79	y	26:50	-	0.897	
49	Unk	PCB-53	100.00	5.68e+07	0.80	y	27:26	-	0.911	
50	Unk	PCB-51	100.00	5.78e+07	0.79	y	27:46	-	0.926	
51	Unk	PCB-45	100.00	4.90e+07	0.80	y	28:10	-	0.785	
52	Unk	PCB-46	100.00	4.78e+07	0.79	y	28:38	-	0.766	
53	Unk	PCB-52	200.00	1.35e+08	0.79	y	29:07	-	1.08	Co-elute PCB 69
54	Unk	PCB-69	200.00	1.35e+08	0.79	y	29:07	-	1.08	Co-elute PCB 52
55	Unk	PCB-73	100.00	7.42e+07	0.81	y	29:12	-	1.19	
56	Unk	PCB-43	200.00	1.10e+08	0.80	y	29:22	-	0.878	Co-elute PCB 49
57	Unk	PCB-49	200.00	1.10e+08	0.80	y	29:22	-	0.878	Co-elute PCB 43
58	Unk	PCB-47	100.00	7.19e+07	0.79	y	29:35	-	1.15	
59	Unk	PCB-48	200.00	1.33e+08	0.81	y	29:41	-	1.06	Co-elute PCB 75
60	Unk	PCB-75	200.00	1.33e+08	0.81	y	29:41	-	1.06	Co-elute PCB 48
61	Unk	PCB-65	100.00	6.83e+07	0.79	y	29:56	-	1.09	
62	Unk	PCB-62	100.00	7.16e+07	0.80	y	30:03	-	1.15	
63	Unk	PCB-44	100.00	5.09e+07	0.80	y	30:19	-	0.816	
64	Unk	PCB-42	200.00	1.33e+08	0.79	y	30:32	-	1.06	Co-elute PCB 59
65	Unk	PCB-59	200.00	1.33e+08	0.79	y	30:32	-	1.06	Co-elute PCB 42
66	Unk	PCB-72	400.00	2.86e+08	0.79	y	31:06	-	1.15	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	2.86e+08	0.79	y	31:06	-	1.15	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	2.86e+08	0.79	y	31:06	-	1.15	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	2.86e+08	0.79	y	31:06	-	1.15	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	7.83e+07	0.80	y	31:21	-	1.25	
71	Unk	PCB-40	100.00	4.40e+07	0.80	y	31:32	-	0.706	
72	Unk	PCB-57	100.00	7.08e+07	0.79	y	31:54	-	1.13	
73	Unk	PCB-67	100.00	6.98e+07	0.78	y	32:11	-	1.12	
74	Unk	PCB-58	100.00	7.38e+07	0.82	y	32:18	-	1.18	
75	Unk	PCB-63	100.00	7.09e+07	0.77	y	32:27	-	1.14	
76	Unk	PCB-74	100.00	7.56e+07	0.79	y	32:43	-	1.21	
77	Unk	PCB-61	200.00	1.54e+08	0.82	y	32:54	-	1.23	Co-elute PCB 70
78	Unk	PCB-70	200.00	1.54e+08	0.82	y	32:54	-	1.23	Co-elute PCB 61
79	Unk	PCB-76	200.00	1.50e+08	0.77	y	33:07	-	1.21	Co-elute PCB 66
80	Unk	PCB-66	200.00	1.50e+08	0.77	y	33:07	-	1.21	Co-elute PCB 76
81	Unk	PCB-80	100.00	8.11e+07	0.79	y	33:20	-	1.30	
82	Unk	PCB-55	100.00	7.47e+07	0.78	y	33:37	-	1.20	
83	IS/RT	13C-PCB-54	100.00	6.24e+07	0.81	y	25:42	-	1.11	
84	Unk	PCB-104	100.00	3.82e+07	1.65	y	30:10	-	1.35	
85	Unk	PCB-96	100.00	3.45e+07	1.64	y	31:21	-	1.22	
86	Unk	PCB-103	100.00	2.95e+07	1.63	y	31:52	-	1.05	
87	Unk	PCB-100	100.00	3.03e+07	1.63	y	32:14	-	1.07	
88	Unk	PCB-94	100.00	2.53e+07	1.65	y	32:39	-	0.898	
89	Unk	PCB-98	200.00	5.57e+07	1.59	y	33:06	-	0.987	Co-elute PCB 102
90	Unk	PCB-102	200.00	5.57e+07	1.59	y	33:06	-	0.987	Co-elute PCB 98
91	Unk	PCB-95	100.00	3.05e+07	1.65	y	33:08	-	1.08	
92	Unk	PCB-93	100.00	2.78e+07	1.72	y	33:15	-	0.984	
93	Unk	PCB-88	200.00	5.96e+07	1.63	y	33:32	-	1.06	Co-elute PCB 91
94	Unk	PCB-91	200.00	5.96e+07	1.63	y	33:32	-	1.06	Co-elute PCB 88
95	Unk	PCB-121	100.00	3.10e+07	1.65	y	33:39	-	1.10	
96	IS	13C-PCB-104	100.00	2.82e+07	1.65	y	30:09	-	0.503	
97	C/Up	13C-PCB-28	100.00	1.10e+08	1.07	y	26:48	-	1.97	
98	RS	13C-PCB-52	100.00	5.61e+07	0.81	y	29:03	5.61e+05	-	
99	Unk	PCB-56	200.00	1.62e+08	0.75	y	34:05	-	1.08	Co-elute PCB 60
100	Unk	PCB-60	200.00	1.62e+08	0.75	y	34:05	-	1.08	Co-elute PCB 56

101	Unk	PCB-79	100.00	8.53e+07	0.79 y	35:07	-	1.14	
102	Unk	PCB-78	100.00	8.21e+07	0.78 y	35:47	-	1.09	
103	Unk	PCB-81	100.00	8.48e+07	0.78 y	36:18	-	1.14	
104	IS	13C-PCB-81	100.00	7.41e+07	0.80 y	36:16	-	1.57	
105	Unk	PCB-77	100.00	8.42e+07	0.78 y	36:51	-	1.11	
106	IS/RT	13C-PCB-77	100.00	7.60e+07	0.79 y	36:51	-	1.61	
107	Unk	PCB-155	100.00	3.94e+07	1.32 y	34:20	-	1.24	
108	Unk	PCB-150	100.00	3.59e+07	1.32 y	35:31	-	1.13	
109	Unk	PCB-152	100.00	3.37e+07	1.31 y	35:59	-	1.06	
110	Unk	PCB-145	100.00	3.51e+07	1.31 y	36:24	-	1.10	
111	Unk	PCB-136	100.00	3.37e+07	1.33 y	36:42	-	1.06	
112	Unk	PCB-148	100.00	2.67e+07	1.33 y	36:48	-	0.839	
113	Unk	PCB-154	100.00	3.10e+07	1.31 y	37:17	-	0.973	
114	IS	13C-PCB-155	100.00	3.18e+07	1.31 y	34:19	-	0.673	
115	C/Up	13C-PCB-111	100.00	5.47e+07	1.61 y	36:25	-	1.16	
116	RS	13C-PCB-101	100.00	4.73e+07	1.63 y	34:45	4.73e+05	-	
117	Unk	PCB-84	200.00	8.63e+07	1.62 y	34:25	-	0.611	Co-elute PCB 92
118	Unk	PCB-92	200.00	8.63e+07	1.62 y	34:25	-	0.611	Co-elute PCB 84
119	Unk	PCB-89	100.00	4.11e+07	1.62 y	34:35	-	0.581	
120	Unk	PCB-90	200.00	9.60e+07	1.61 y	34:47	-	0.679	Co-elute PCB 101
121	Unk	PCB-101	200.00	9.60e+07	1.61 y	34:47	-	0.679	Co-elute PCB 90
122	Unk	PCB-113	100.00	5.43e+07	1.60 y	34:59	-	0.768	
123	Unk	PCB-99	100.00	5.28e+07	1.63 y	35:06	-	0.748	
124	Unk	PCB-119	100.00	5.76e+07	1.60 y	35:32	-	0.815	
125	Unk	PCB-83	200.00	9.72e+07	1.61 y	35:41	-	0.688	Co-elute PCB 112
126	Unk	PCB-112	200.00	9.72e+07	1.61 y	35:41	-	0.688	Co-elute PCB 83
127	Unk	PCB-109	100.00	5.80e+07	1.61 y	35:50	-	0.821	
128	Unk	PCB-97	100.00	5.14e+07	1.59 y	36:01	-	0.728	
129	Unk	PCB-86	100.00	4.97e+07	1.66 y	36:10	-	0.704	
130	Unk	PCB-125	300.00	1.53e+08	1.58 y	36:18	-	0.724	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	1.53e+08	1.58 y	36:18	-	0.724	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	1.53e+08	1.58 y	36:18	-	0.724	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	1.41e+08	1.59 y	36:27	-	0.995	Co-elute PCB 115
134	Unk	PCB-115	200.00	1.41e+08	1.59 y	36:27	-	0.995	Co-elute PCB 111
135	Unk	PCB-85	200.00	1.00e+08	1.64 y	36:33	-	0.708	Co-elute PCB 116
136	Unk	PCB-116	200.00	1.00e+08	1.64 y	36:33	-	0.708	Co-elute PCB 85
137	Unk	PCB-120	100.00	5.75e+07	1.57 y	36:48	-	0.813	
138	Unk	PCB-110	100.00	6.77e+07	1.64 y	36:54	-	0.959	
139	Unk	PCB-82	100.00	3.53e+07	1.59 y	37:30	-	0.499	
140	Unk	PCB-124	100.00	6.41e+07	1.50 y	38:10	-	0.907	
141	Unk	PCB-108	200.00	1.52e+08	1.55 y	38:18	-	1.07	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.52e+08	1.55 y	38:18	-	1.07	Co-elute PCB 108
143	Unk	PCB-123	100.00	8.36e+07	1.61 y	38:28	-	1.23	
144	IS	13C-PCB-123	100.00	6.77e+07	1.58 y	38:27	-	1.40	
145	Unk	PCB-118	200.00	1.53e+08	1.51 y	38:40	-	1.03	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.53e+08	1.51 y	38:40	-	1.03	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	7.42e+07	1.62 y	38:38	-	1.53	
148	Unk	PCB-114	100.00	7.58e+07	1.53 y	39:16	-	1.07	
149	IS	13C-PCB-114	100.00	7.09e+07	1.61 y	39:14	-	1.46	
150	Unk	PCB-122	100.00	7.76e+07	1.58 y	39:23	-	1.10	
151	Unk	PCB-105	100.00	7.52e+07	1.53 y	40:05	-	1.08	
152	IS	13C-PCB-105	100.00	6.98e+07	1.61 y	40:04	-	1.44	
153	Unk	PCB-127	100.00	6.99e+07	1.54 y	40:25	-	0.990	
154	Unk	PCB-126	100.00	7.28e+07	1.54 y	42:14	-	1.12	
155	IS	13C-PCB-126	100.00	6.52e+07	1.62 y	42:12	-	1.35	

156	Unk	PCB-151	100.00	4.52e+07	1.28 y	37:54	-	0.849	
157	Unk	PCB-135	100.00	4.38e+07	1.26 y	38:05	-	0.823	
158	Unk	PCB-144	100.00	4.95e+07	1.28 y	38:12	-	0.931	
159	Unk	PCB-147	100.00	4.91e+07	1.28 y	38:20	-	0.923	
160	Unk	PCB-139	200.00	1.04e+08	1.27 y	38:35	-	0.977	Co-elute PCB 149
161	Unk	PCB-149	200.00	1.04e+08	1.27 y	38:35	-	0.977	Co-elute PCB 139
162	Unk	PCB-140	100.00	5.08e+07	1.27 y	38:45	-	0.954	
163	Unk	PCB-143	200.00	9.54e+07	1.28 y	39:09	-	0.897	Co-elute PCB 134
164	Unk	PCB-134	200.00	9.54e+07	1.28 y	39:09	-	0.897	Co-elute PCB 143
165	Unk	PCB-131	200.00	9.63e+07	1.28 y	39:26	-	0.904	Co-elute PCB 133
166	Unk	PCB-133	200.00	9.63e+07	1.28 y	39:26	-	0.904	Co-elute PCB 131
167	Unk	PCB-142	100.00	4.11e+07	1.31 y	39:36	-	0.772	
168	Unk	PCB-165	200.00	1.12e+08	1.29 y	39:49	-	1.05	Co-elute PCB 146
169	Unk	PCB-146	200.00	1.12e+08	1.29 y	39:49	-	1.05	Co-elute PCB 165
170	Unk	PCB-161	200.00	1.06e+08	1.27 y	40:02	-	0.996	Co-elute PCB 132
171	Unk	PCB-132	200.00	1.06e+08	1.27 y	40:02	-	0.996	Co-elute PCB 161
172	Unk	PCB-153	100.00	5.37e+07	1.31 y	40:12	-	1.01	
173	Unk	PCB-168	100.00	6.15e+07	1.29 y	40:23	-	1.15	
174	Unk	PCB-141	100.00	4.73e+07	1.29 y	40:55	-	0.889	
175	Unk	PCB-137	100.00	4.80e+07	1.25 y	41:16	-	0.902	
176	Unk	PCB-130	100.00	4.04e+07	1.31 y	41:21	-	0.759	
177	Unk	PCB-138	300.00	1.87e+08	1.29 y	41:42	-	1.17	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	1.87e+08	1.29 y	41:42	-	1.17	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	1.87e+08	1.29 y	41:42	-	1.17	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	1.26e+08	1.28 y	41:57	-	1.18	Co-elute PCB 160
181	Unk	PCB-160	200.00	1.26e+08	1.28 y	41:57	-	1.18	Co-elute PCB 158
182	Unk	PCB-129	100.00	4.09e+07	1.28 y	42:10	-	0.768	
183	Unk	PCB-166	100.00	5.75e+07	1.27 y	42:37	-	1.08	
184	Unk	PCB-159	100.00	6.35e+07	1.27 y	42:57	-	1.19	
185	Unk	PCB-128	200.00	1.04e+08	1.27 y	43:11	-	0.980	Co-elute PCB 162
186	Unk	PCB-162	200.00	1.04e+08	1.27 y	43:11	-	0.980	Co-elute PCB 128
187	Unk	PCB-167	100.00	5.73e+07	1.28 y	43:34	-	1.05	
188	IS	13C-PCB-167	100.00	5.43e+07	1.28 y	43:33	-	1.12	
189	Unk	PCB-156	100.00	5.76e+07	1.28 y	44:48	-	1.11	
190	IS	13C-PCB-156	100.00	5.21e+07	1.28 y	44:47	-	1.07	
191	Unk	PCB-157	100.00	6.19e+07	1.27 y	45:03	-	1.14	
192	IS	13C-PCB-157	100.00	5.41e+07	1.26 y	45:02	-	1.12	
193	Unk	PCB-169	100.00	5.59e+07	1.26 y	46:55	-	1.07	
194	IS	13C-PCB-169	100.00	5.24e+07	1.30 y	46:54	-	1.08	
195	Unk	PCB-188	100.00	4.68e+07	1.07 y	39:51	-	1.21	
196	IS	13C-PCB-188	100.00	3.88e+07	1.11 y	39:49	-	0.800	

197	Unk	PCB-184	100.00	4.63e+07	1.08 y	40:15	-	1.25	
198	Unk	PCB-179	100.00	4.27e+07	1.09 y	40:60	-	1.15	
199	Unk	PCB-176	100.00	4.22e+07	1.09 y	41:26	-	1.14	
200	Unk	PCB-186	100.00	4.41e+07	1.07 y	42:01	-	1.19	
201	Unk	PCB-178	100.00	3.06e+07	1.07 y	42:29	-	0.826	
202	Unk	PCB-175	100.00	3.27e+07	1.06 y	42:48	-	0.884	
203	Unk	PCB-187	200.00	7.34e+07	1.08 y	42:58	-	0.991	Co-elute PCB 182
204	Unk	PCB-182	200.00	7.34e+07	1.08 y	42:58	-	0.991	Co-elute PCB 187
205	Unk	PCB-183	100.00	3.45e+07	1.07 y	43:16	-	0.932	
206	Unk	PCB-185	100.00	3.28e+07	1.07 y	43:54	-	0.884	
207	Unk	PCB-174	100.00	3.30e+07	1.06 y	44:14	-	0.891	
208	Unk	PCB-181	100.00	3.35e+07	1.08 y	44:20	-	0.904	
209	Unk	PCB-177	100.00	2.93e+07	1.07 y	44:30	-	0.793	
210	Unk	PCB-171	100.00	3.16e+07	1.06 y	44:47	-	0.854	
211	Unk	PCB-173	100.00	2.97e+07	1.07 y	45:10	-	0.802	
212	Unk	PCB-172	100.00	2.95e+07	1.07 y	45:35	-	0.796	
213	Unk	PCB-192	100.00	4.11e+07	1.07 y	45:44	-	1.11	
214	Unk	PCB-180	100.00	4.05e+07	1.06 y	45:54	-	1.09	
215	Unk	PCB-193	100.00	4.30e+07	1.07 y	46:04	-	1.16	
216	Unk	PCB-191	100.00	4.00e+07	1.07 y	46:17	-	1.08	
217	Unk	PCB-170	100.00	2.87e+07	1.06 y	47:12	-	0.774	
218	Unk	PCB-190	100.00	4.03e+07	1.07 y	47:22	-	1.09	
219	Unk	PCB-189	100.00	4.12e+07	1.06 y	48:34	-	1.17	
220	IS	13C-PCB-189	100.00	3.53e+07	1.08 y	48:32	-	0.729	
221	Unk	PCB-202	150.00	3.29e+07	0.93 y	44:57	-	1.03	
222	Unk	PCB-201	150.00	3.26e+07	0.97 y	45:23	-	1.02	
223	Unk	PCB-204	150.00	3.18e+07	0.89 y	45:31	-	1.00	
224	Unk	PCB-197	150.00	3.45e+07	0.92 y	45:48	-	1.08	
225	Unk	PCB-200	150.00	3.20e+07	0.92 y	46:31	-	1.01	
226	Unk	PCB-198	150.00	2.37e+07	0.92 y	47:41	-	0.744	
227	Unk	PCB-199	150.00	2.66e+07	0.93 y	47:48	-	0.835	
228	Unk	PCB-203	300.00	5.52e+07	0.94 y	48:03	-	0.866	Co-elute PCB 196
229	Unk	PCB-196	300.00	5.52e+07	0.94 y	48:03	-	0.866	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	2.12e+07	0.93 y	44:55	-	0.438	
231	C/Up	13C-PCB-178	100.00	2.93e+07	1.11 y	42:27	-	0.604	
232	RS	13C-PCB-138	100.00	4.85e+07	1.29 y	41:41	4.85e+05	-	
233	Unk	PCB-195	150.00	7.08e+07	0.89 y	49:07	-	0.706	
234	Unk	PCB-194	150.00	7.94e+07	0.89 y	49:56	-	0.792	
235	Unk	PCB-205	150.00	1.07e+08	0.89 y	50:11	-	1.07	
236	IS	13C-PCB-205	100.00	6.68e+07	0.91 y	50:11	-	1.23	
237	Unk	PCB-208	150.00	8.01e+07	1.37 y	49:15	-	1.01	
238	IS	13C-PCB-208	100.00	5.27e+07	0.81 y	49:13	-	0.971	
239	Unk	PCB-207	150.00	7.34e+07	1.38 y	49:31	-	0.975	
240	Unk	PCB-206	150.00	7.15e+07	1.34 y	51:23	-	1.00	
241	IS	13C-PCB-206	100.00	4.76e+07	0.80 y	51:22	-	0.877	
242	Unk	PCB-209	150.00	8.80e+07	1.19 y	52:35	-	1.12	
243	IS	13C-PCB-209	100.00	5.25e+07	1.22 y	52:34	-	0.966	
244	RS	13C-PCB-194	100.00	5.43e+07	0.92 y	49:55	5.43e+05	-	

Analyst: [illegible] Date: 7/26/12

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/25/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 25JUL18Z Sam:1 Analysis Date: 25-JUL-18 07:23:19

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	49.7	37.5 - 62.5
PCB-3	M/M+2	3.18	2.66-3.60	y	50.6	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	45.6	37.5 - 62.5
PCB-15	M/M+2	1.55	1.33-1.79	y	49.9	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	1.11	0.88-1.20	y	45.6	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	50.8	37.5 - 62.5
PCB-77	M/M+2	0.78	0.65-0.89	y	52.8	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	53.0	37.5 - 62.5
PCB-104	M+2/M+4	1.61	1.32-1.78	y	48.3	37.5 - 62.5
PCB-105	M+2/M+4	1.57	1.32-1.78	y	50.6	37.5 - 62.5
PCB-114	M+2/M+4	1.53	1.32-1.78	y	50.4	37.5 - 62.5
PCB-118	M+2/M+4	1.55	1.32-1.78	y	53.0	37.5 - 62.5
PCB-123	M+2/M+4	1.56	1.32-1.78	y	44.7	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	49.1	37.5 - 62.5
PCB-155	M+2/M+4	1.31	1.05-1.43	y	52.2	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	51.8	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	48.7	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	53.7	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	48.0	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	52.0	37.5 - 62.5
PCB-202	M+2/M+4	0.93	0.76-1.02	y	56.6	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	52.7	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	48.6	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	48.4	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	54.4	37.5 - 62.5

Analyst: _____ Date: 7/26/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/25/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 25JUL18Z Sam:1 Analysis Date: 25-JUL-18 07:23:19

	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	109	50.0 - 145
13C-PCB-3	M/M+2	3.24	2.66-3.60	y	103	50.0 - 145
13C-PCB-4	M/M+2	1.59	1.33-1.79	y	105	50.0 - 145
13C-PCB-15	M/M+2	1.59	1.33-1.79	y	100	50.0 - 145
13C-PCB-19	M/M+2	1.11	0.88-1.20	y	112	50.0 - 145
13C-PCB-37	M/M+2	1.11	0.88-1.20	y	96.0	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	110	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	97.3	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	96.5	50.0 - 145
13C-PCB-104	M+2/M+4	1.64	1.32-1.78	y	120	50.0 - 145
13C-PCB-105	M+2/M+4	1.64	1.32-1.78	y	103	50.0 - 145
13C-PCB-114	M+2/M+4	1.63	1.32-1.78	y	104	50.0 - 145
13C-PCB-118	M+2/M+4	1.60	1.32-1.78	y	104	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	101	50.0 - 145
13C-PCB-126	M+2/M+4	1.61	1.32-1.78	y	103	50.0 - 145
13C-PCB-155	M+2/M+4	1.35	1.05-1.43	y	101	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	109	50.0 - 145
13C-PCB-157	M+2/M+4	1.32	1.05-1.43	y	107	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	107	50.0 - 145
13C-PCB-169	M+2/M+4	1.30	1.05-1.43	y	114	50.0 - 145
13C-PCB-188	M+2/M+4	1.10	0.89-1.21	y	115	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	114	50.0 - 145
13C-PCB-202	M+2/M+4	0.95	0.76-1.02	y	106	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	104	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	115	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	121	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	1.07	0.88-1.20	y	92.3	65.0 - 135
13C-PCB-111	M+2/M+4	1.58	1.32-1.78	y	104	75.0 - 125
13C-PCB-178	M+2/M+4	1.11	0.89-1.21	y	104	75.0 - 125

Analyst: _____ Date: 7/26/18

FAL ID: ST072518Z1 Filename: 25JUL18Z Sam:1 Acquired: 25-JUL-18 07:23:19 ICal: DAILY209FAL4-7-25-18
Client ID: 1668 CS3 170805A ConCal: ST072518Z1 EndCal: ST072518Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	2.38e+07	3.14 y	14:36	1.19	49.7		2.50	-	-	*	
13C-PCB-1	4.04e+07	3.27 y	14:35	0.80	109		2.50				109
PCB-3	2.40e+07	3.18 y	17:04	1.17	50.6		2.50	-	-	*	
13C-PCB-3	4.04e+07	3.24 y	17:03	0.85	103		2.50				103
PCB-4	1.76e+07	1.57 y	18:18	1.26	45.6		2.50	-	-	*	
13C-PCB-4	3.07e+07	1.59 y	18:16	0.63	105		2.50				105
PCB-15	2.46e+07	1.55 y	23:53	1.12	49.9		2.50	-	-	*	
13C-PCB-15	4.40e+07	1.59 y	23:52	0.95	100		2.50				100
PCB-19	1.31e+07	1.06 y	22:12	1.26	50.3		2.50	-	-	*	
13C-PCB-19	2.07e+07	1.11 y	22:11	0.40	112		2.50				112
13C-PCB-9	4.61e+07	1.61 y	19:59	-	40.2		2.50				
PCB-37	2.03e+07	1.11 y	30:33	1.23	45.6		2.50	-	-	*	
13C-PCB-37	3.62e+07	1.11 y	30:32	1.68	96.0		2.50				96.0
PCB-54	1.66e+07	0.79 y	25:45	1.19	50.8		2.50	-	-	*	
13C-PCB-54	2.74e+07	0.81 y	25:43	1.11	110		2.50				110
PCB-104	8.81e+06	1.61 y	30:13	1.35	48.3		2.50	-	-	*	
13C-PCB-104	1.35e+07	1.64 y	30:10	0.50	120		2.50				120
13C-PCB-28	4.07e+07	1.07 y	26:50	1.97	92.3		2.50				92.3
13C-PCB-52	2.24e+07	0.80 y	29:06	-	39.9		2.50				
PCB-81	1.73e+07	0.78 y	36:19	1.14	53.0		2.50	-	-	*	
13C-PCB-81	2.86e+07	0.80 y	36:18	1.57	96.5		2.50				96.5
PCB-77	1.73e+07	0.78 y	36:53	1.11	52.8		2.50	-	-	*	
13C-PCB-77	2.96e+07	0.81 y	36:52	1.61	97.3		2.50				97.3
PCB-155	8.35e+06	1.31 y	34:21	1.24	52.2		2.50	-	-	*	
13C-PCB-155	1.29e+07	1.35 y	34:20	0.67	101		2.50				101
13C-PCB-111	2.29e+07	1.58 y	36:27	1.16	104		2.50				104
13C-PCB-101	1.89e+07	1.61 y	34:48	-	40.0		2.50				
PCB-123	1.46e+07	1.56 y	38:30	1.23	44.7		2.50	-	-	*	
13C-PCB-123	2.64e+07	1.59 y	38:28	1.40	101		2.50				101
PCB-118	1.64e+07	1.55 y	38:41	1.03	53.0		2.50	-	-	*	
13C-PCB-118	2.99e+07	1.60 y	38:40	1.53	104		2.50				104
PCB-114	1.54e+07	1.53 y	39:18	1.07	50.4		2.50	-	-	*	
13C-PCB-114	2.86e+07	1.63 y	39:16	1.46	104		2.50				104
PCB-105	1.52e+07	1.57 y	40:07	1.08	50.6		2.50	-	-	*	
13C-PCB-105	2.79e+07	1.64 y	40:05	1.44	103		2.50				103
PCB-126	1.43e+07	1.57 y	42:15	1.12	49.1		2.50	-	-	*	
13C-PCB-126	2.61e+07	1.61 y	42:14	1.35	103		2.50				103
PCB-167	1.28e+07	1.25 y	43:36	1.05	53.7		2.50	-	-	*	
13C-PCB-167	2.25e+07	1.27 y	43:34	1.12	107		2.50				107
PCB-156	1.25e+07	1.27 y	44:50	1.11	51.8		2.50	-	-	*	
13C-PCB-156	2.18e+07	1.28 y	44:48	1.07	109		2.50				109
PCB-157	1.25e+07	1.24 y	45:05	1.14	48.7		2.50	-	-	*	
13C-PCB-157	2.25e+07	1.32 y	45:03	1.12	107		2.50				107
PCB-169	1.28e+07	1.30 y	46:55	1.07	52.1		2.50	-	-	*	
13C-PCB-169	2.31e+07	1.30 y	46:55	1.08	114		2.50				114
PCB-188	1.00e+07	1.07 y	39:52	1.21	48.0		2.50	-	-	*	
13C-PCB-188	1.72e+07	1.10 y	39:51	0.80	115		2.50				115
PCB-189	9.44e+06	1.07 y	48:34	1.17	52.0		2.50	-	-	*	
13C-PCB-189	1.56e+07	1.08 y	48:34	0.73	114		2.50				114
PCB-202	5.10e+06	0.93 y	44:57	1.03	56.6		2.50	-	-	*	
13C-PCB-202	8.72e+06	0.95 y	44:57	0.44	106		2.50				106
13C-PCB-178	1.17e+07	1.11 y	42:29	0.60	104		2.50				104
13C-PCB-138	1.87e+07	1.29 y	41:42	-	38.6		2.50				

FAL ID: ST072518Z1 Filename: 25JUL18Z Sam:1 Acquired: 25-JUL-18 07:23:19 ICal: DAILY209FAL4-7-25-18 2 of 2
Client ID: 1668 CS3 170805A ConCal: ST072518Z1 EndCal: ST072518Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	1.47e+07	0.91	y	50:13	1.07	52.7	2.50	-	-	*	
13C-PCB-205	2.60e+07	0.91	y	50:11	1.23	104	2.50				104
PCB-208	1.17e+07	1.35	y	49:15	1.01	48.4	2.50	-	-	*	
13C-PCB-208	2.40e+07	0.81	y	49:13	0.97	121	2.50				121
PCB-206	9.98e+06	1.37	y	51:23	1.00	48.6	2.50	-	-	*	
13C-PCB-206	2.05e+07	0.79	y	51:23	0.88	115	2.50				115
PCB-209	1.28e+07	1.19	y	52:35	1.12	54.4	2.50	-	-	*	
13C-PCB-209	2.11e+07	1.20	y	52:35	0.97	107	2.50				107
13C-PCB-194	2.04e+07	0.91	y	49:56	-	37.5	2.50				

Analyst: _____ Date: 7/26/18

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/25/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 25JUL18Z Sam:16 Analysis Date: 25-JUL-18 22:01:08

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.26	2.66-3.60	y	55.9	37.5 - 62.5
PCB-3	M/M+2	3.26	2.66-3.60	y	57.8	37.5 - 62.5
PCB-4	M/M+2	1.55	1.33-1.79	y	52.1	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	56.6	37.5 - 62.5
PCB-19	M/M+2	1.07	0.88-1.20	y	51.2	37.5 - 62.5
PCB-37	M/M+2	1.07	0.88-1.20	y	51.2	37.5 - 62.5
PCB-54	M/M+2	0.82	0.65-0.89	y	54.2	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	56.7	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	55.6	37.5 - 62.5
PCB-104	M+2/M+4	1.57	1.32-1.78	y	47.7	37.5 - 62.5
PCB-105	M+2/M+4	1.54	1.32-1.78	y	52.4	37.5 - 62.5
PCB-114	M+2/M+4	1.57	1.32-1.78	y	52.7	37.5 - 62.5
PCB-118	M+2/M+4	1.59	1.32-1.78	y	57.3	37.5 - 62.5
PCB-123	M+2/M+4	1.57	1.32-1.78	y	45.3	37.5 - 62.5
PCB-126	M+2/M+4	1.55	1.32-1.78	y	50.9	37.5 - 62.5
PCB-155	M+2/M+4	1.30	1.05-1.43	y	51.4	37.5 - 62.5
PCB-156	M+2/M+4	1.31	1.05-1.43	y	55.2	37.5 - 62.5
PCB-157	M+2/M+4	1.32	1.05-1.43	y	50.9	37.5 - 62.5
PCB-167	M+2/M+4	1.30	1.05-1.43	y	56.2	37.5 - 62.5
PCB-169	M+2/M+4	1.31	1.05-1.43	y	55.2	37.5 - 62.5
PCB-188	M+2/M+4	1.08	0.89-1.21	y	48.7	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	53.2	37.5 - 62.5
PCB-202	M+2/M+4	0.95	0.76-1.02	y	55.0	37.5 - 62.5
PCB-205	M+2/M+4	0.93	0.76-1.02	y	54.6	37.5 - 62.5
PCB-206	M+4/M+6	1.38	1.13-1.53	y	51.4	37.5 - 62.5
PCB-208	M+4/M+6	1.39	1.13-1.53	y	50.2	37.5 - 62.5
PCB-209	M+4/M+6	1.21	0.99-1.33	y	56.0	37.5 - 62.5

Analyst: [signature] Date: 7/26/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/25/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 25JUL18Z Sam:16 Analysis Date: 25-JUL-18 22:01:08

	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	3.25	2.66-3.60	y	93.4	50.0 - 145
13C-PCB-3	M/M+2	3.37	2.66-3.60	y	89.9	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	107	50.0 - 145
13C-PCB-15	M/M+2	1.63	1.33-1.79	y	101	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	85.8	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	115	50.0 - 145
13C-PCB-54	M/M+2	0.83	0.65-0.89	y	98.1	50.0 - 145
13C-PCB-77	M/M+2	0.82	0.65-0.89	y	116	50.0 - 145
13C-PCB-81	M/M+2	0.83	0.65-0.89	y	116	50.0 - 145
13C-PCB-104	M+2/M+4	1.61	1.32-1.78	y	106	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	121	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	125	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	121	50.0 - 145
13C-PCB-123	M+2/M+4	1.63	1.32-1.78	y	123	50.0 - 145
13C-PCB-126	M+2/M+4	1.63	1.32-1.78	y	121	50.0 - 145
13C-PCB-155	M+2/M+4	1.32	1.05-1.43	y	111	50.0 - 145
13C-PCB-156	M+2/M+4	1.30	1.05-1.43	y	102	50.0 - 145
13C-PCB-157	M+2/M+4	1.31	1.05-1.43	y	102	50.0 - 145
13C-PCB-167	M+2/M+4	1.29	1.05-1.43	y	103	50.0 - 145
13C-PCB-169	M+2/M+4	1.28	1.05-1.43	y	100	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	111	50.0 - 145
13C-PCB-189	M+2/M+4	1.10	0.89-1.21	y	91.6	50.0 - 145
13C-PCB-202	M+2/M+4	0.93	0.76-1.02	y	110	50.0 - 145
13C-PCB-205	M+2/M+4	0.93	0.76-1.02	y	106	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	95.7	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	100	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	78.7	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.09	0.88-1.20	y	105	65.0 - 135
13C-PCB-111	M+2/M+4	1.63	1.32-1.78	y	103	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	94.0	75.0 - 125

Analyst: [signature] Date: 7/26/18

FAL ID: ST072518Z2 Filename: 25JUL18Z Sam:16 Acquired: 25-JUL-18 22:01:08 ICal: DAILY209FAL4-7-25-18
Client ID: 1668 CS3 170805A ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

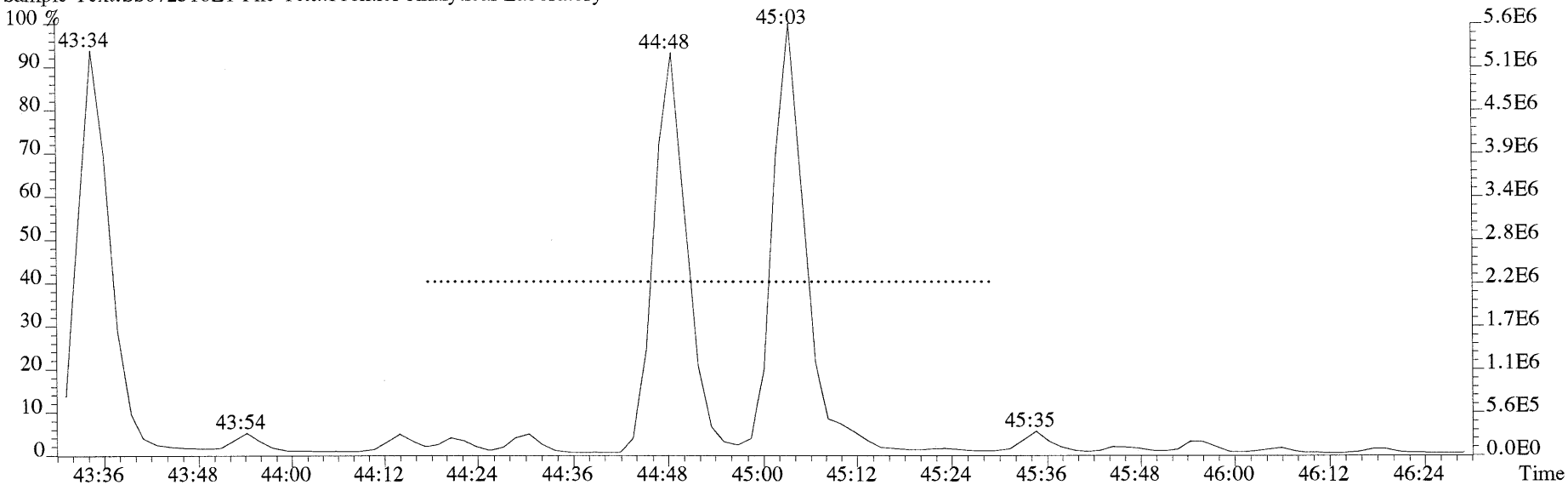
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	5.08e+07	3.26 y	14:34	1.19	55.9		2.50	-	-	*	
13C-PCB-1	7.66e+07	3.25 y	14:33	0.80	93.4		2.50				93.4
PCB-3	5.25e+07	3.26 y	17:00	1.17	57.8		2.50	-	-	*	
13C-PCB-3	7.76e+07	3.37 y	16:59	0.85	89.9		2.50				89.9
PCB-4	4.51e+07	1.55 y	18:14	1.26	52.1		2.50	-	-	*	
13C-PCB-4	6.91e+07	1.60 y	18:13	0.63	107		2.50				107
PCB-15	6.21e+07	1.57 y	23:47	1.12	56.6		2.50	-	-	*	
13C-PCB-15	9.78e+07	1.63 y	23:47	0.95	101		2.50				101
PCB-19	2.25e+07	1.07 y	22:07	1.26	51.2		2.50	-	-	*	
13C-PCB-19	3.49e+07	1.07 y	22:06	0.40	85.8		2.50				85.8
13C-PCB-9	1.02e+08	1.64 y	19:54	-	88.7		2.50				
PCB-37	5.07e+07	1.07 y	30:27	1.23	51.2		2.50	-	-	*	
13C-PCB-37	8.05e+07	1.09 y	30:26	1.68	115		2.50				115
PCB-54	2.94e+07	0.82 y	25:40	1.19	54.2		2.50	-	-	*	
13C-PCB-54	4.54e+07	0.83 y	25:38	1.11	98.1		2.50				98.1
PCB-104	1.44e+07	1.57 y	30:06	1.35	47.7		2.50	-	-	*	
13C-PCB-104	2.22e+07	1.61 y	30:04	0.50	106		2.50				106
13C-PCB-28	8.59e+07	1.09 y	26:45	1.97	105		2.50				105
13C-PCB-52	4.17e+07	0.83 y	29:00	-	74.2		2.50				
PCB-81	3.46e+07	0.78 y	36:13	1.14	55.6		2.50	-	-	*	
13C-PCB-81	5.43e+07	0.83 y	36:12	1.57	116		2.50				116
PCB-77	3.52e+07	0.79 y	36:47	1.11	56.7		2.50	-	-	*	
13C-PCB-77	5.61e+07	0.82 y	36:46	1.61	116		2.50				116
PCB-155	1.43e+07	1.30 y	34:16	1.24	51.4		2.50	-	-	*	
13C-PCB-155	2.24e+07	1.32 y	34:14	0.67	111		2.50				111
13C-PCB-111	3.57e+07	1.63 y	36:21	1.16	103		2.50				103
13C-PCB-101	3.00e+07	1.64 y	34:42	-	63.4		2.50				
PCB-123	2.90e+07	1.57 y	38:24	1.23	45.3		2.50	-	-	*	
13C-PCB-123	5.18e+07	1.63 y	38:23	1.40	123		2.50				123
PCB-118	3.29e+07	1.59 y	38:34	1.03	57.3		2.50	-	-	*	
13C-PCB-118	5.55e+07	1.61 y	38:34	1.53	121		2.50				121
PCB-114	3.09e+07	1.57 y	39:12	1.07	52.7		2.50	-	-	*	
13C-PCB-114	5.48e+07	1.61 y	39:10	1.46	125		2.50				125
PCB-105	2.95e+07	1.54 y	40:01	1.08	52.4		2.50	-	-	*	
13C-PCB-105	5.23e+07	1.61 y	40:00	1.44	121		2.50				121
PCB-126	2.78e+07	1.55 y	42:10	1.12	50.9		2.50	-	-	*	
13C-PCB-126	4.90e+07	1.63 y	42:08	1.35	121		2.50				121
PCB-167	2.07e+07	1.30 y	43:30	1.05	56.2		2.50	-	-	*	
13C-PCB-167	3.48e+07	1.29 y	43:29	1.12	103		2.50				103
PCB-156	2.01e+07	1.31 y	44:44	1.11	55.2		2.50	-	-	*	
13C-PCB-156	3.30e+07	1.30 y	44:43	1.07	102		2.50				102
PCB-157	2.00e+07	1.32 y	44:59	1.14	50.9		2.50	-	-	*	
13C-PCB-157	3.43e+07	1.31 y	44:58	1.12	102		2.50				102
PCB-169	1.92e+07	1.31 y	46:51	1.07	55.2		2.50	-	-	*	
13C-PCB-169	3.26e+07	1.28 y	46:51	1.08	100		2.50				100
PCB-188	1.58e+07	1.08 y	39:45	1.21	48.7		2.50	-	-	*	
13C-PCB-188	2.68e+07	1.06 y	39:45	0.80	111		2.50				111
PCB-189	1.24e+07	1.07 y	48:30	1.17	53.2		2.50	-	-	*	
13C-PCB-189	2.01e+07	1.10 y	48:30	0.73	91.6		2.50				91.6
PCB-202	8.25e+06	0.95 y	44:53	1.03	55.0		2.50	-	-	*	
13C-PCB-202	1.45e+07	0.93 y	44:51	0.44	110		2.50				110
13C-PCB-178	1.71e+07	1.07 y	42:23	0.60	94.0		2.50				94.0
13C-PCB-138	3.01e+07	1.30 y	41:37	-	62.1		2.50				

FAL ID: ST072518Z2 Filename: 25JUL18Z Sam:16 Acquired: 25-JUL-18 22:01:08 ICal: DAILY209FAL4-7-25-18 2 of 2
Client ID: 1668 CS3 170805A ConCal: ST072518Z1 EndCal: ST072518Z2
Results: 11704 GC Column: DB1MS Amount: 1.000

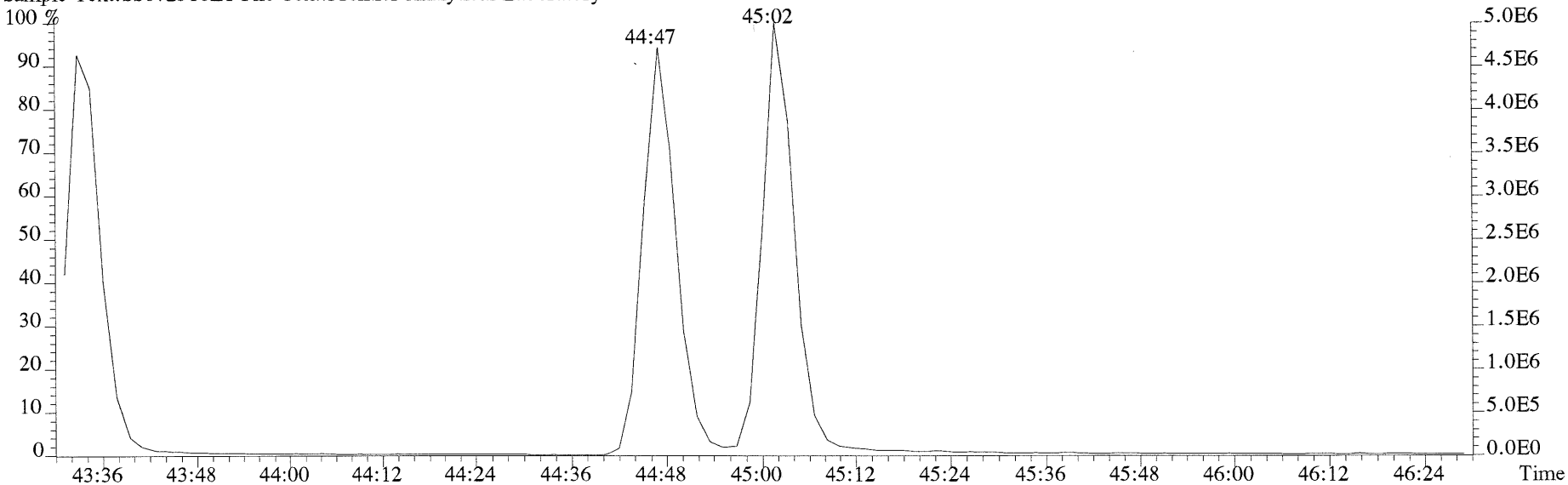
PCB-205	2.78e+07	0.93	y	50:08	1.07	54.6	2.50	-	-	*	
13C-PCB-205	4.76e+07	0.93	y	50:08	1.23	106	2.50				106
PCB-208	1.80e+07	1.39	y	49:12	1.01	50.2	2.50	-	-	*	
13C-PCB-208	3.54e+07	0.81	y	49:11	0.97	100	2.50				100
PCB-206	1.57e+07	1.38	y	51:20	1.00	51.4	2.50	-	-	*	
13C-PCB-206	3.06e+07	0.79	y	51:19	0.88	95.7	2.50				95.7
PCB-209	1.73e+07	1.21	y	52:31	1.12	56.0	2.50	-	-	*	
13C-PCB-209	2.77e+07	1.20	y	52:30	0.97	78.7	2.50				78.7
13C-PCB-194	3.64e+07	0.92	y	49:53	-	67.1	2.50				

Analyst: _____ Date: 7/26/18

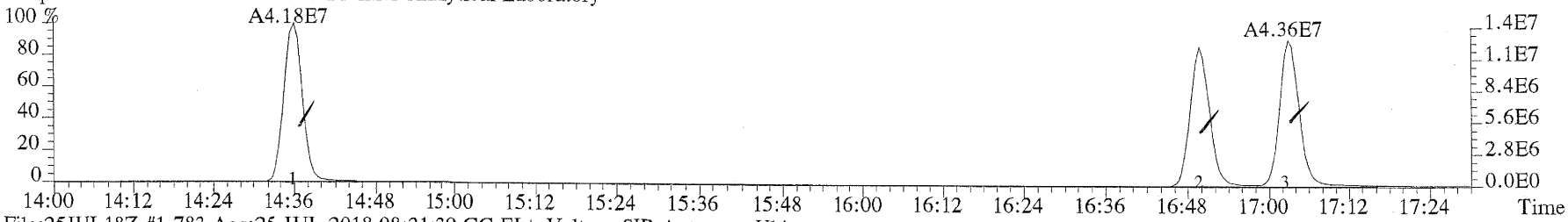
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



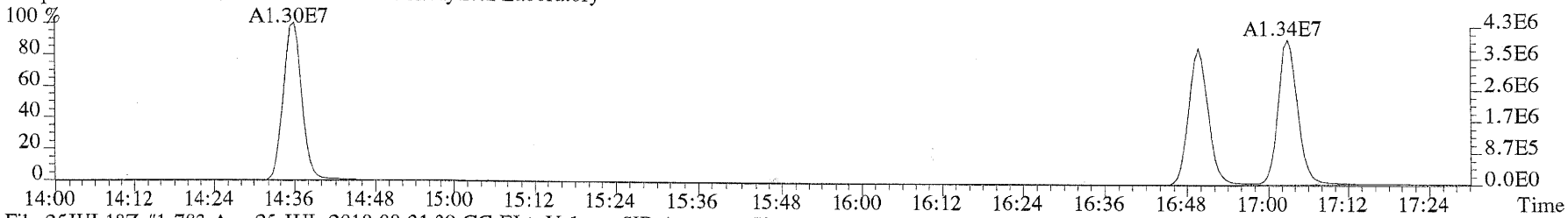
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



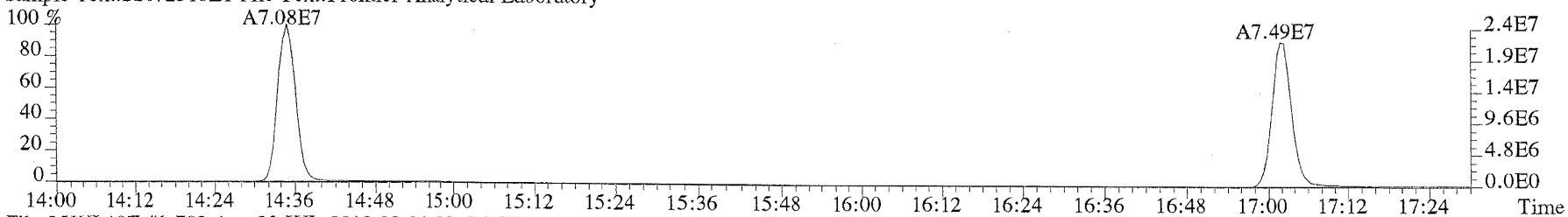
File:25JUL18Z #1-783 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



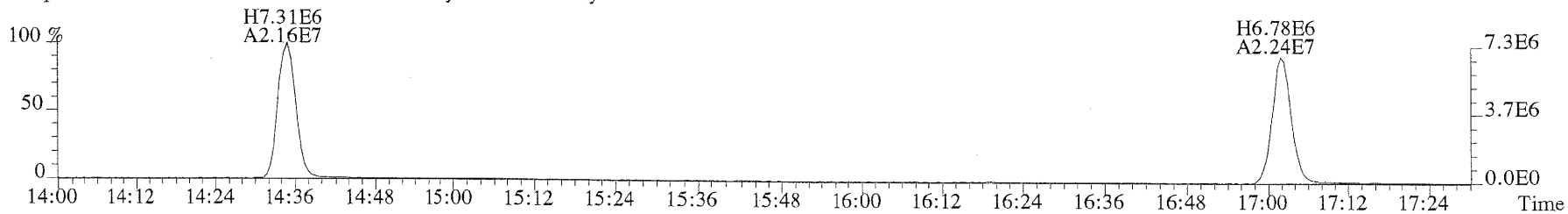
File:25JUL18Z #1-783 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



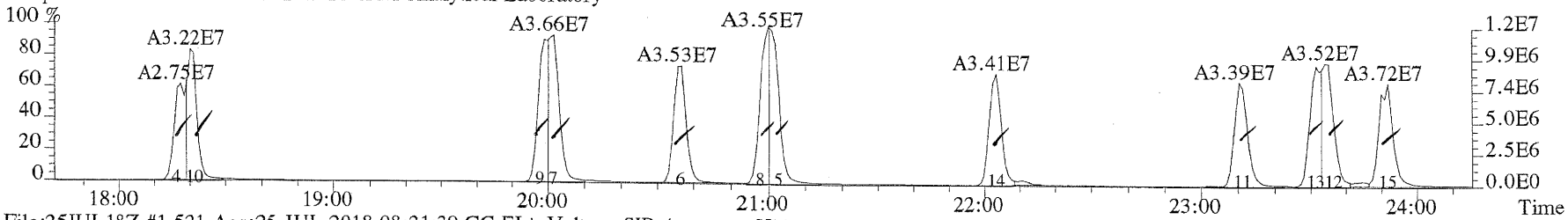
File:25JUL18Z #1-783 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



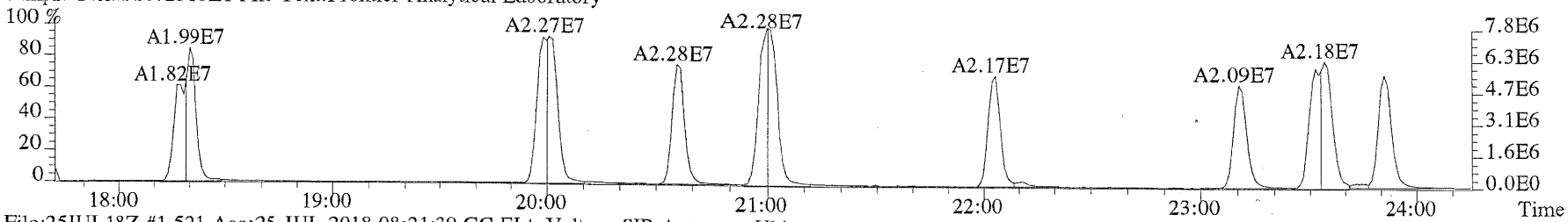
File:25JUL18Z #1-783 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



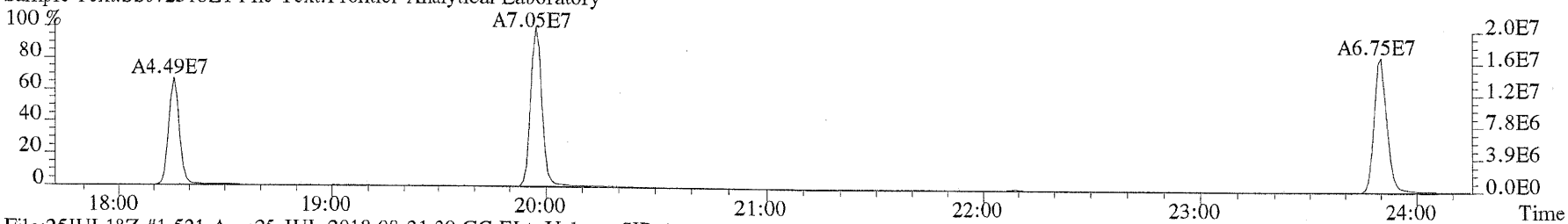
File:25JUL18Z #1-521 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



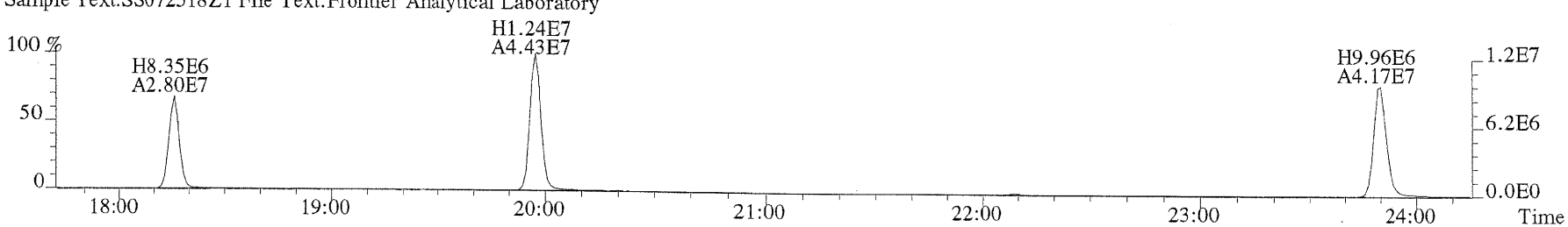
File:25JUL18Z #1-521 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



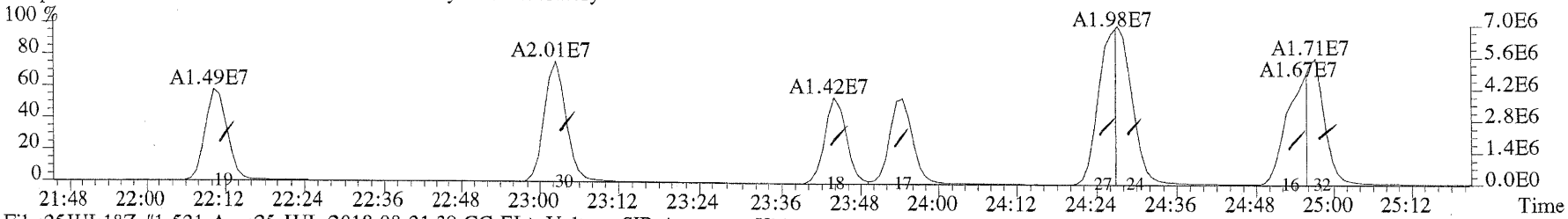
File:25JUL18Z #1-521 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



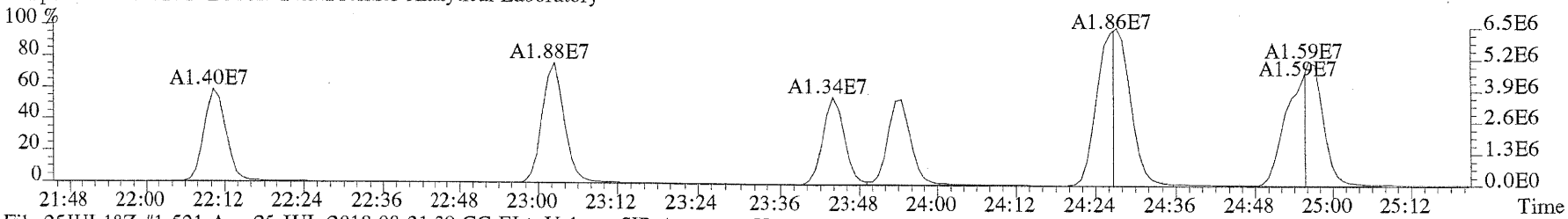
File:25JUL18Z #1-521 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



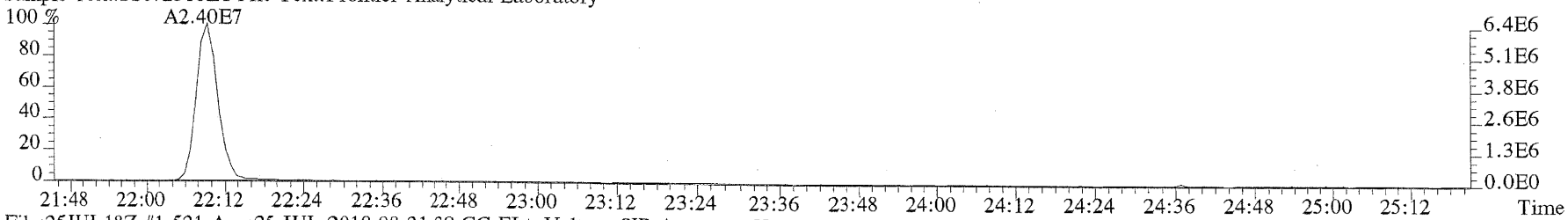
File:25JUL18Z #1-521 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



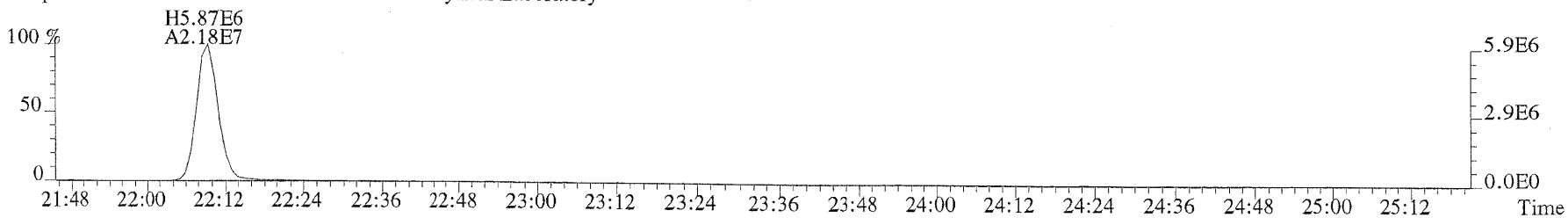
File:25JUL18Z #1-521 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



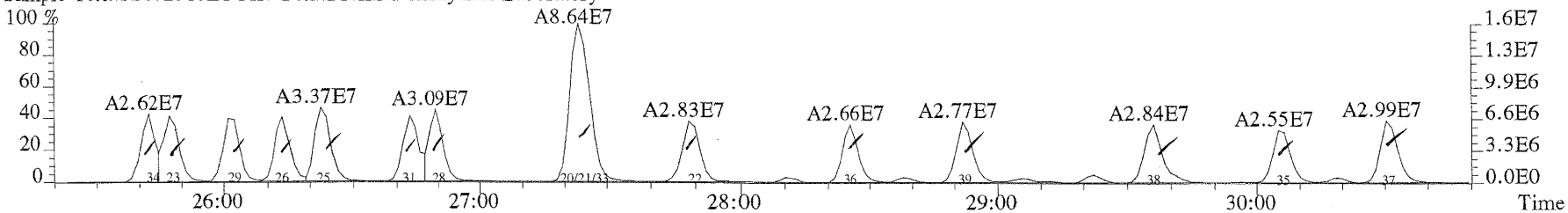
File:25JUL18Z #1-521 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



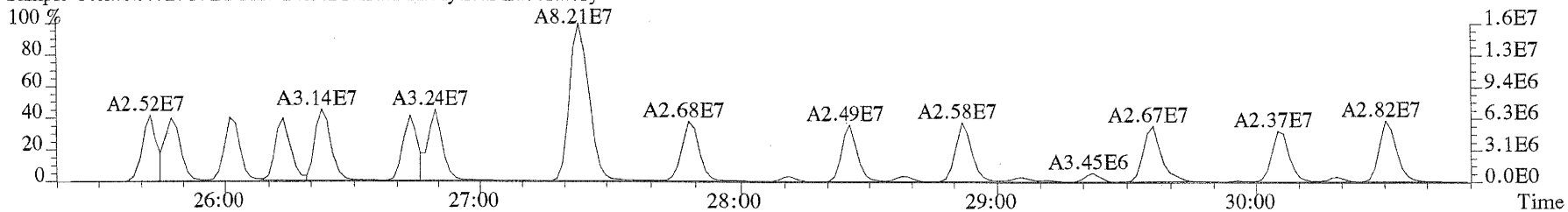
File:25JUL18Z #1-521 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



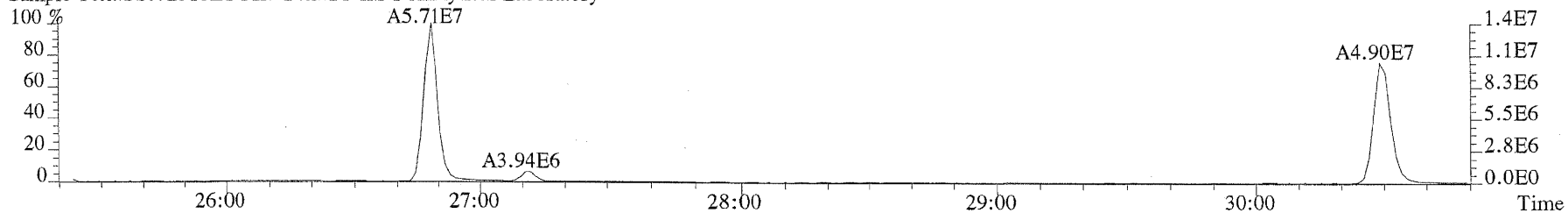
File:25JUL18Z #1-401 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



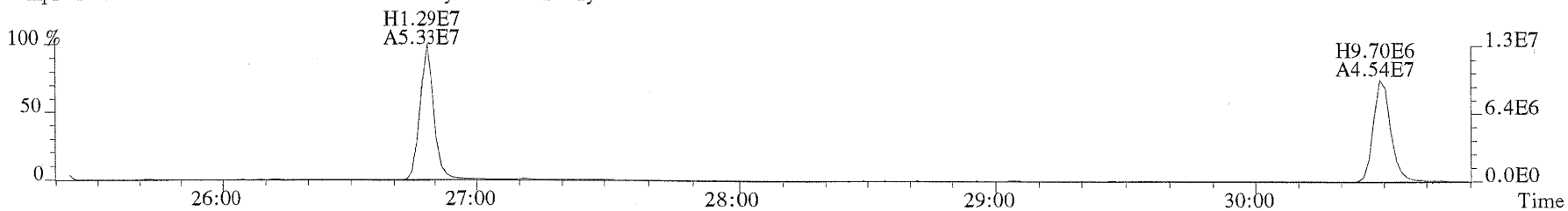
File:25JUL18Z #1-401 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



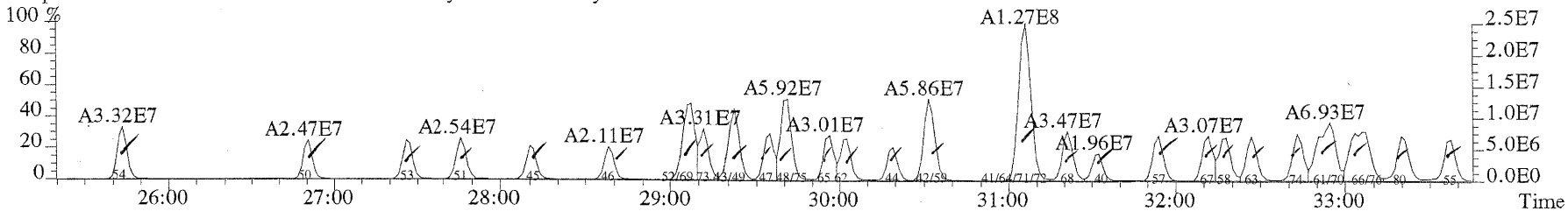
File:25JUL18Z #1-401 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



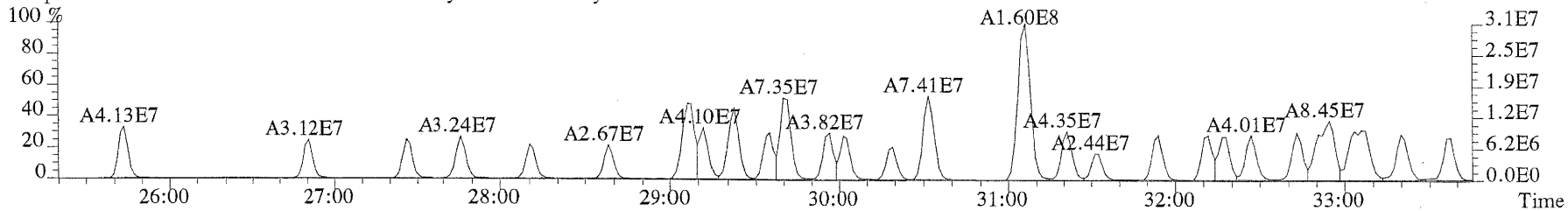
File:25JUL18Z #1-401 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



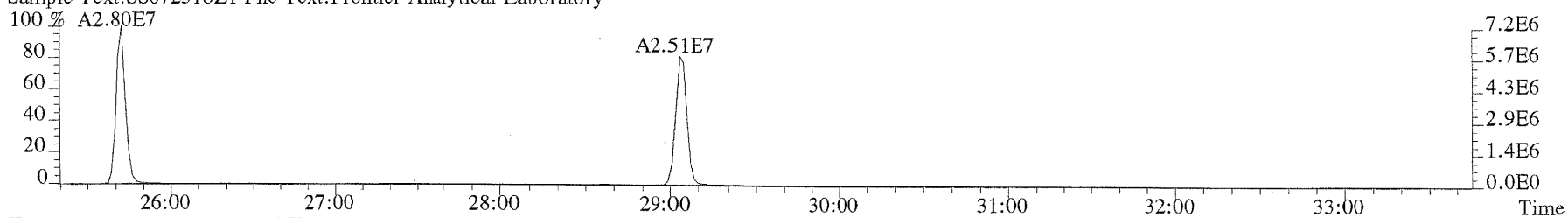
File:25JUL18Z #1-401 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



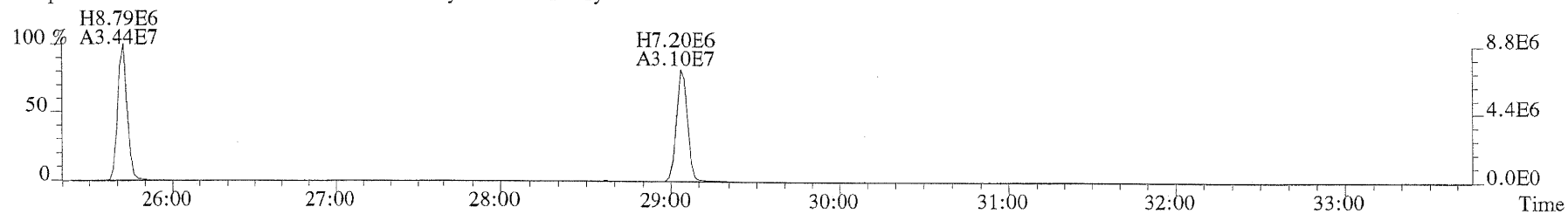
File:25JUL18Z #1-401 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



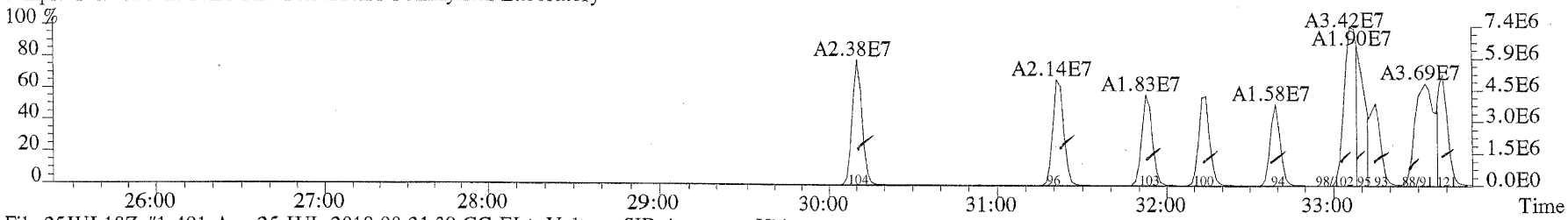
File:25JUL18Z #1-401 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



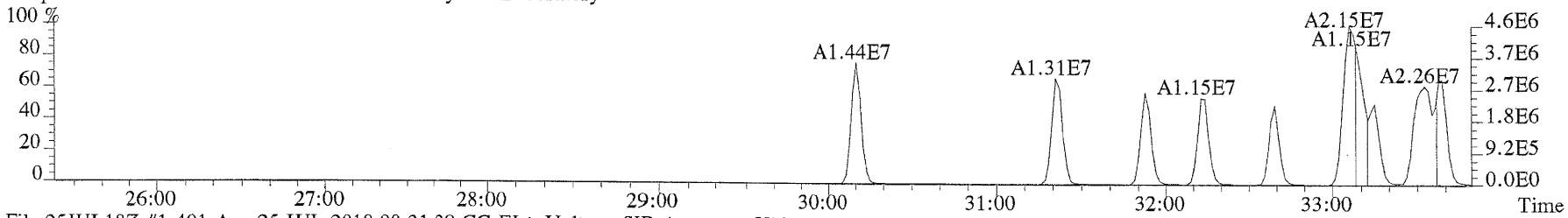
File:25JUL18Z #1-401 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



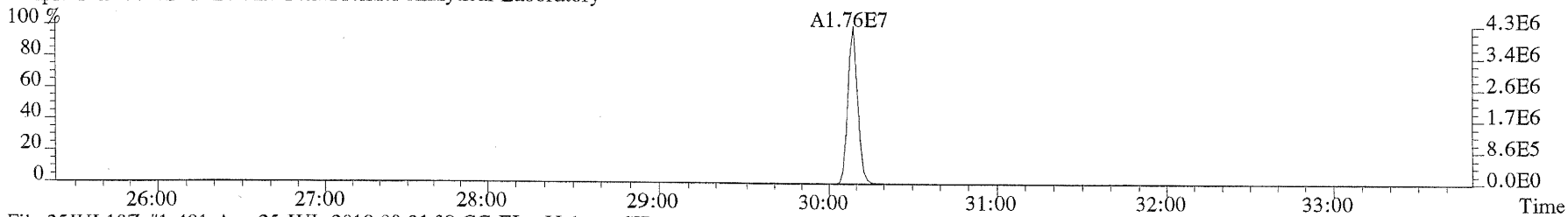
File:25JUL18Z #1-401 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



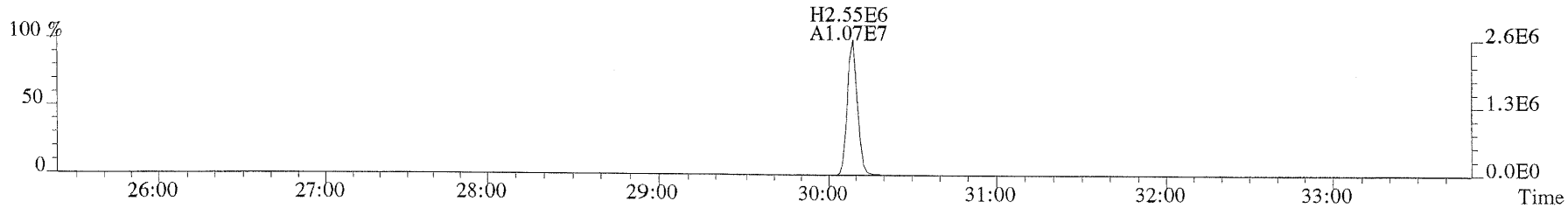
File:25JUL18Z #1-401 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



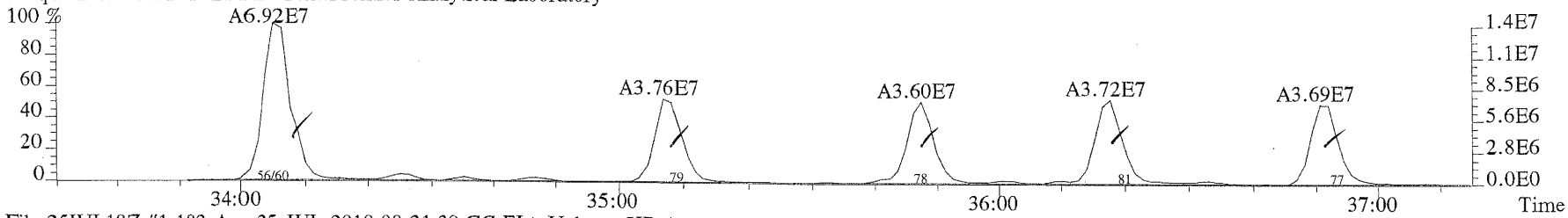
File:25JUL18Z #1-401 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



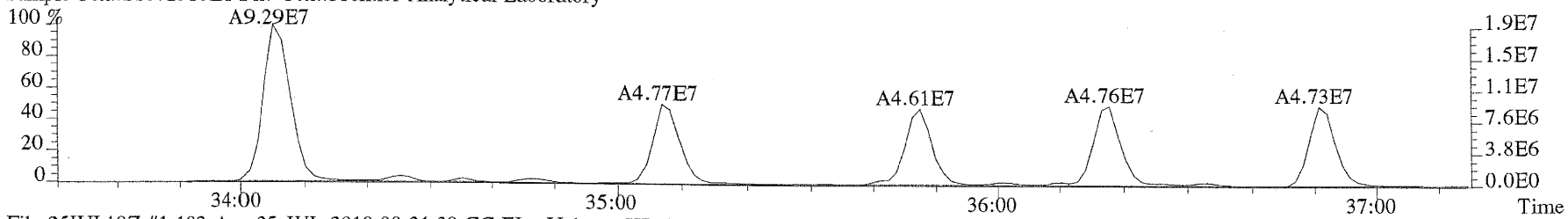
File:25JUL18Z #1-401 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



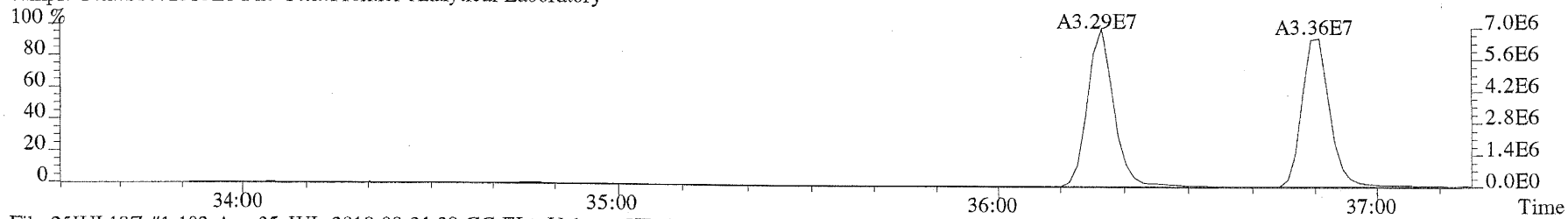
File:25JUL18Z #1-183 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



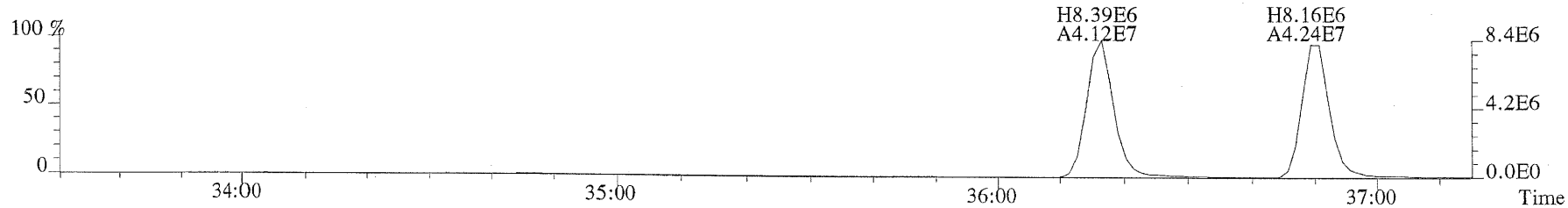
File:25JUL18Z #1-183 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



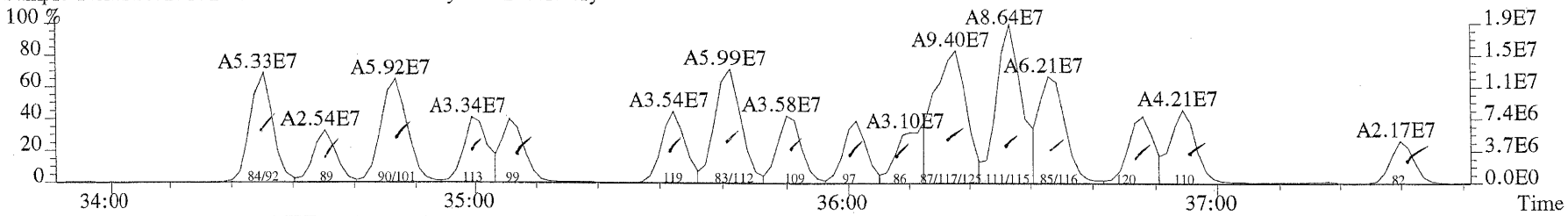
File:25JUL18Z #1-183 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



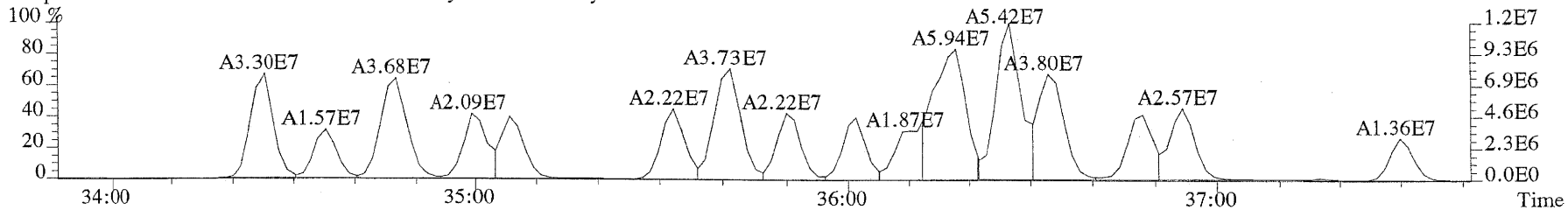
File:25JUL18Z #1-183 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



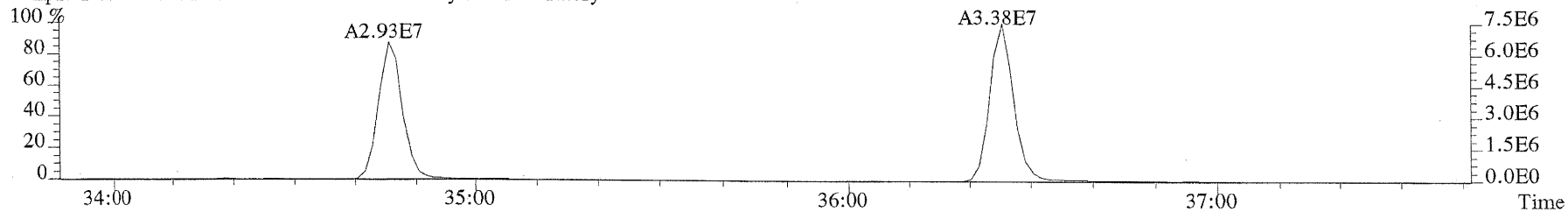
File:25JUL18Z #1-183 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



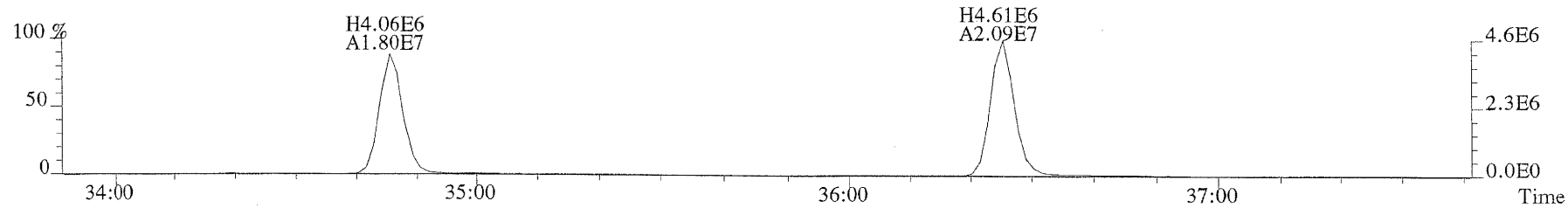
File:25JUL18Z #1-183 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



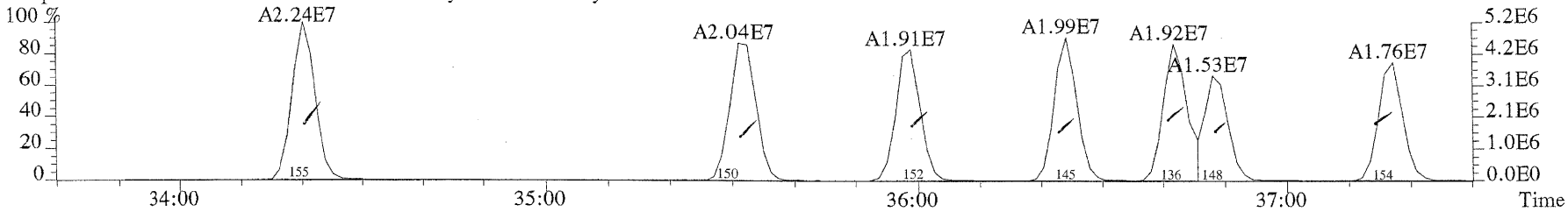
File:25JUL18Z #1-183 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



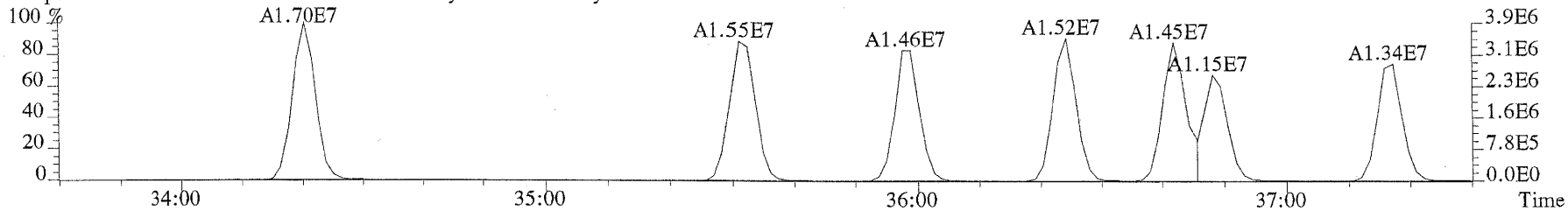
File:25JUL18Z #1-183 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



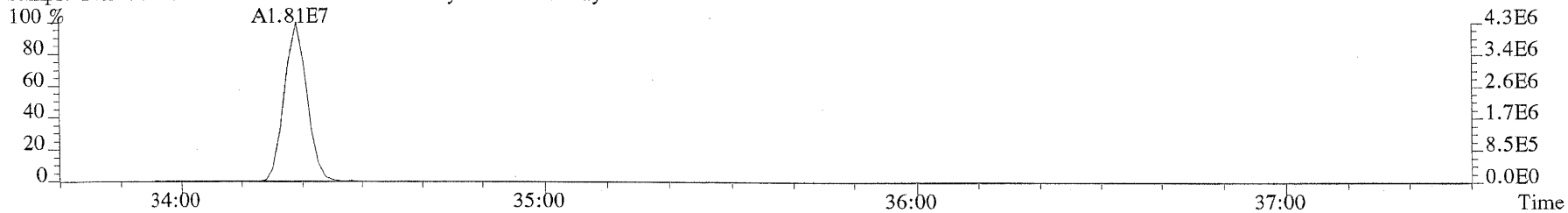
File:25JUL18Z #1-183 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



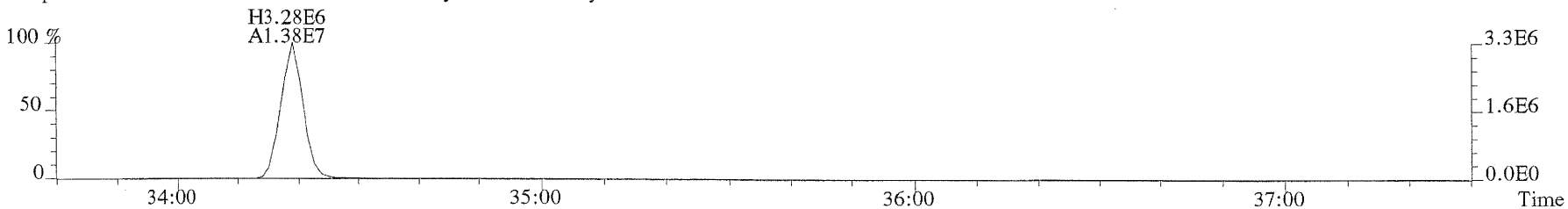
File:25JUL18Z #1-183 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



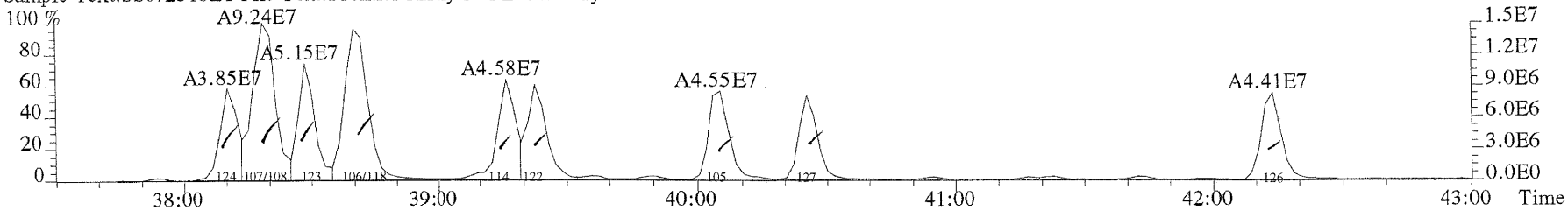
File:25JUL18Z #1-183 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



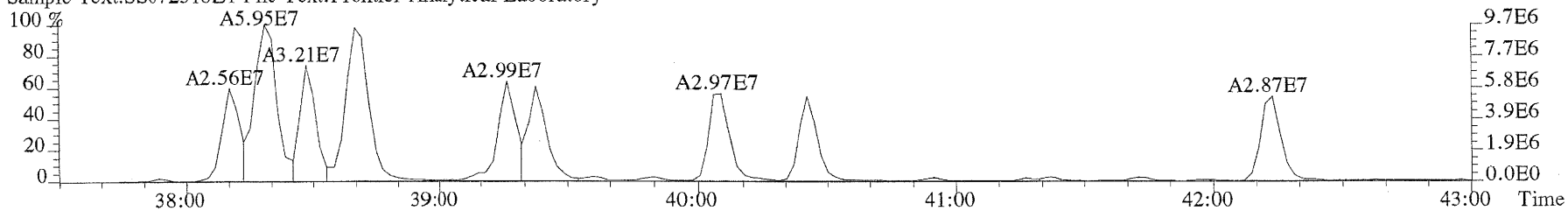
File:25JUL18Z #1-183 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



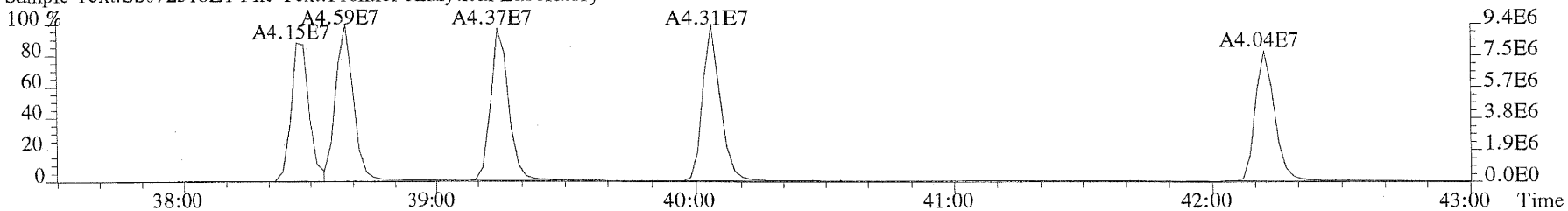
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



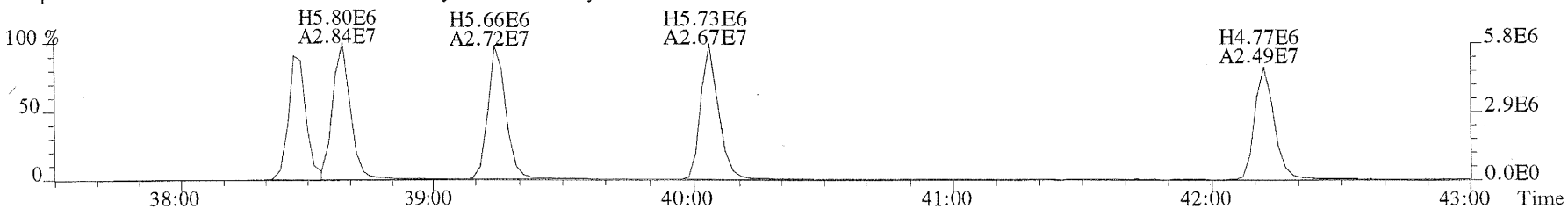
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



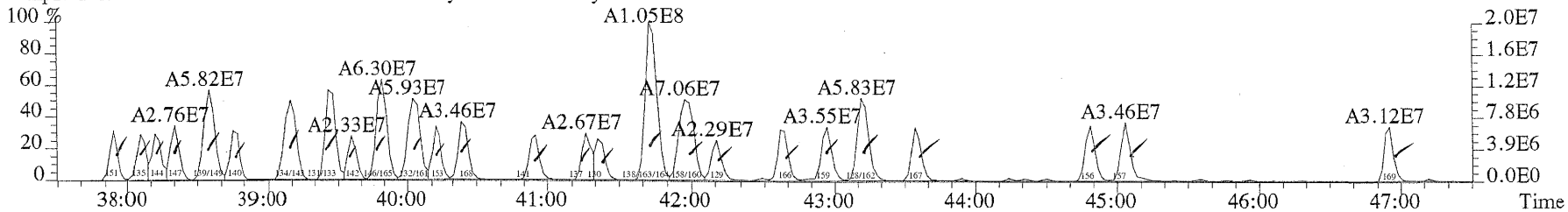
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



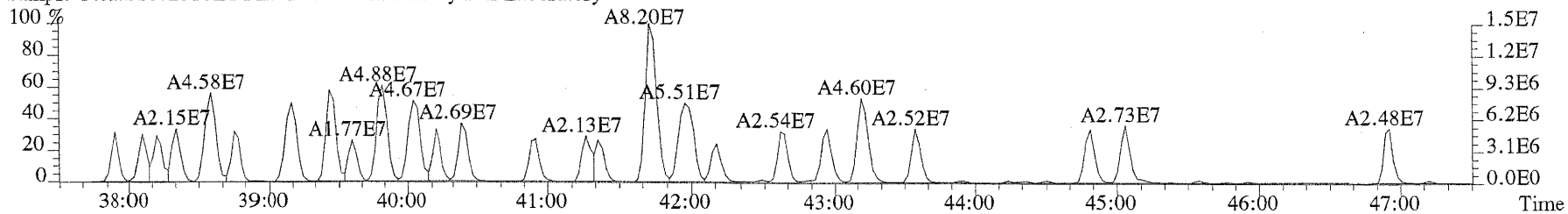
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



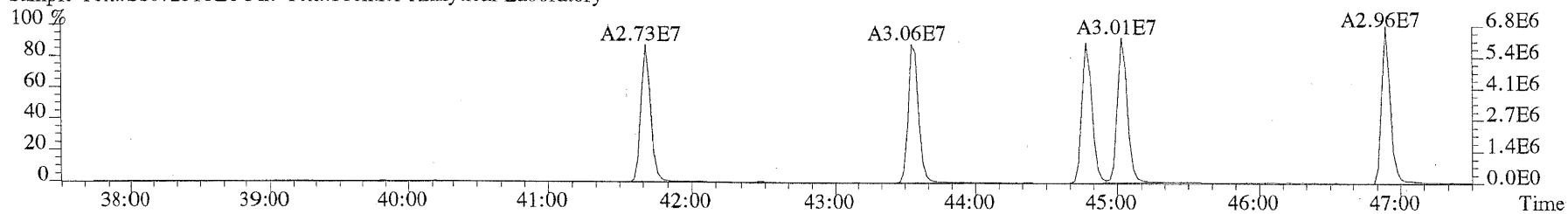
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



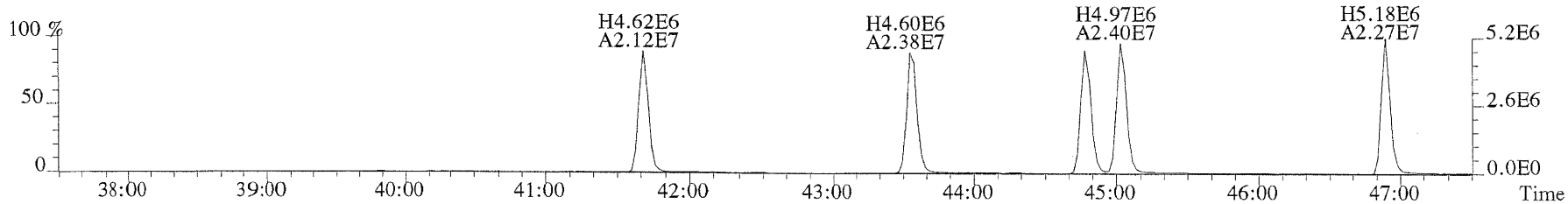
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



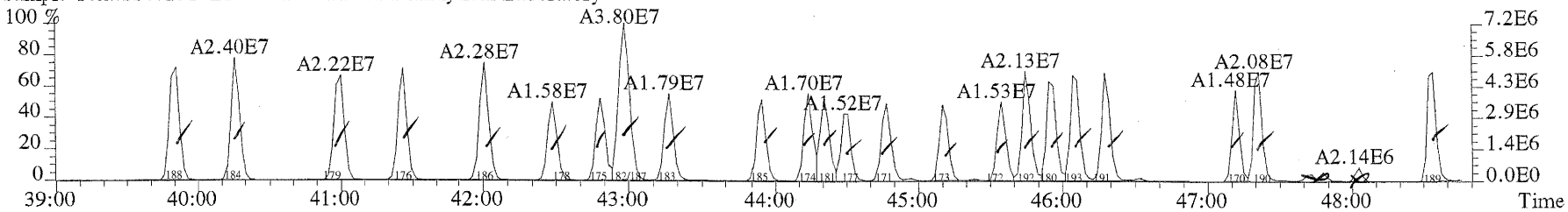
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



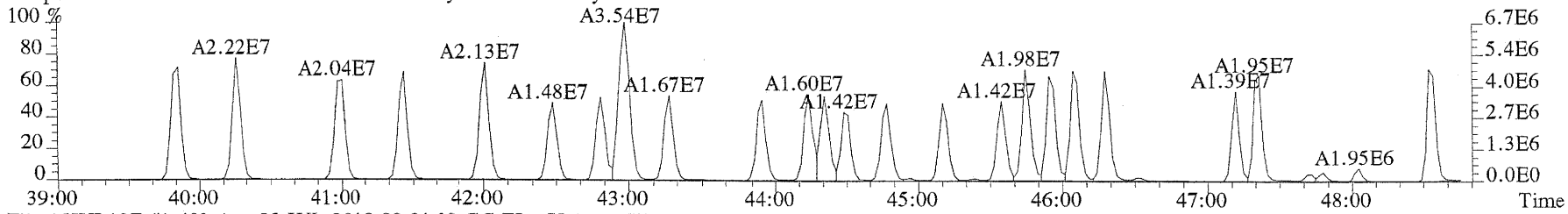
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



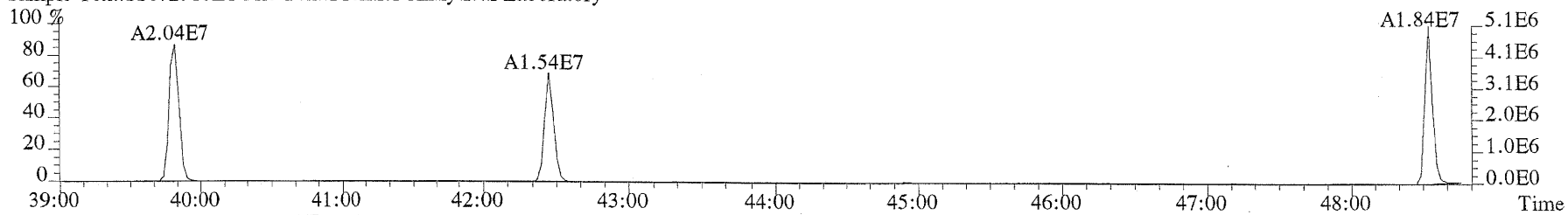
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



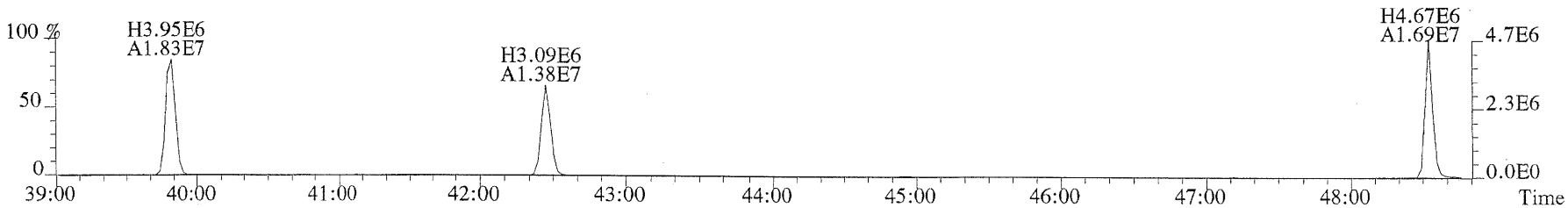
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



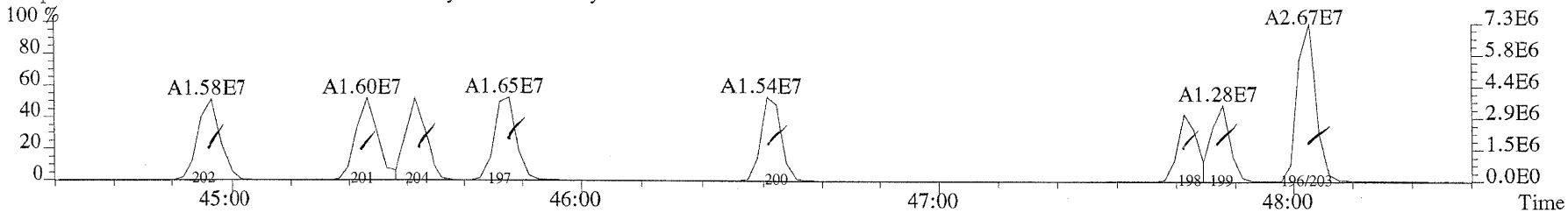
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



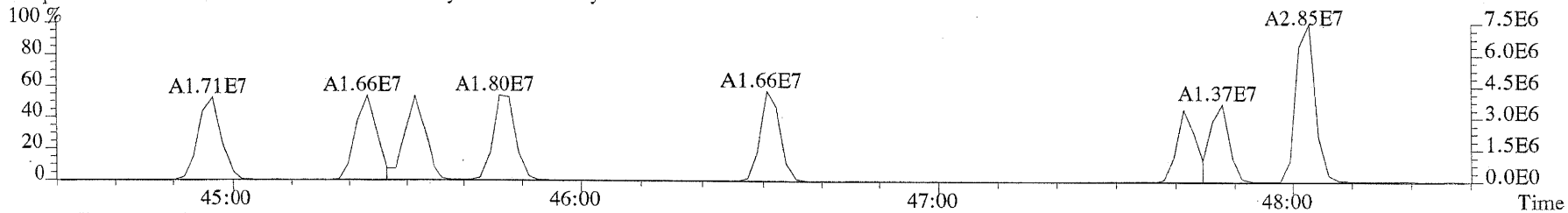
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



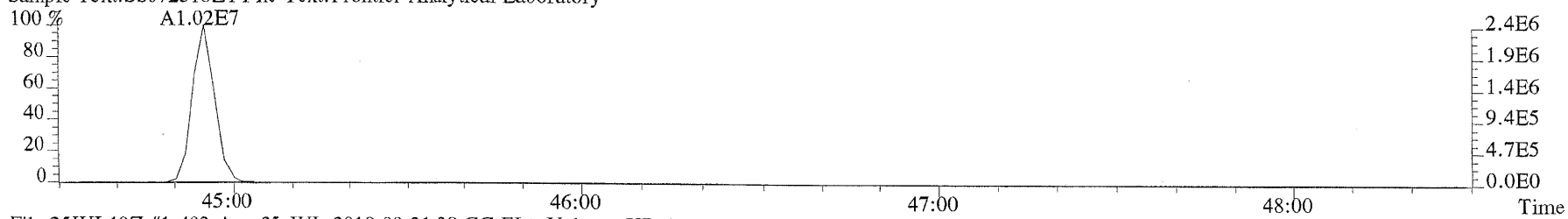
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



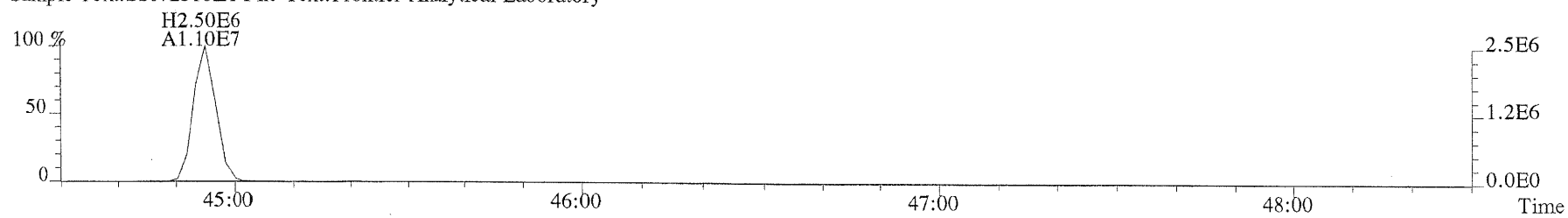
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



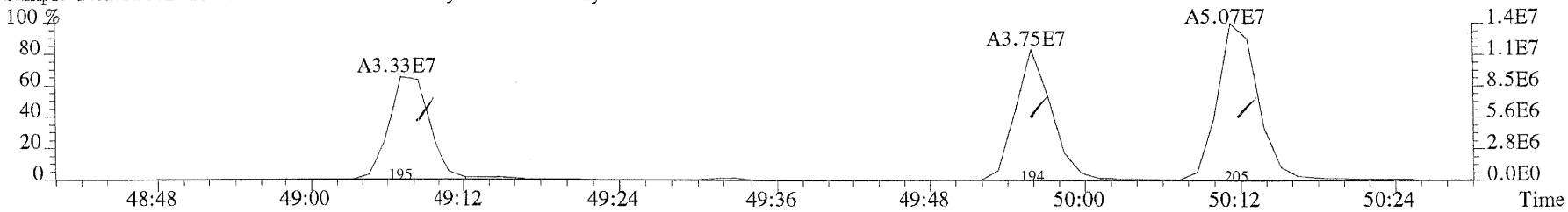
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



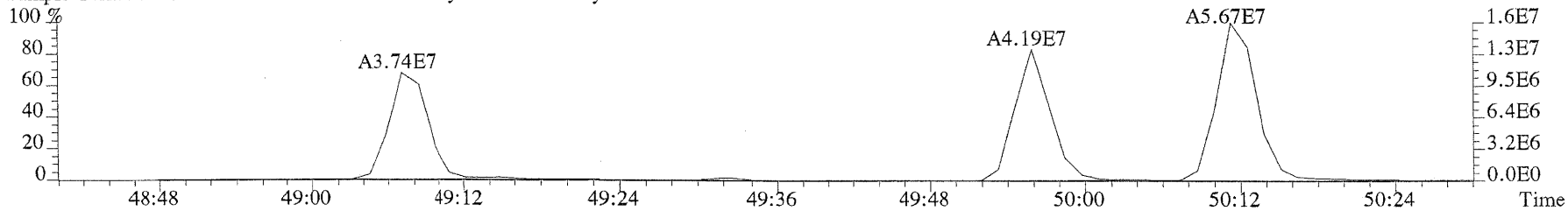
File:25JUL18Z #1-403 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



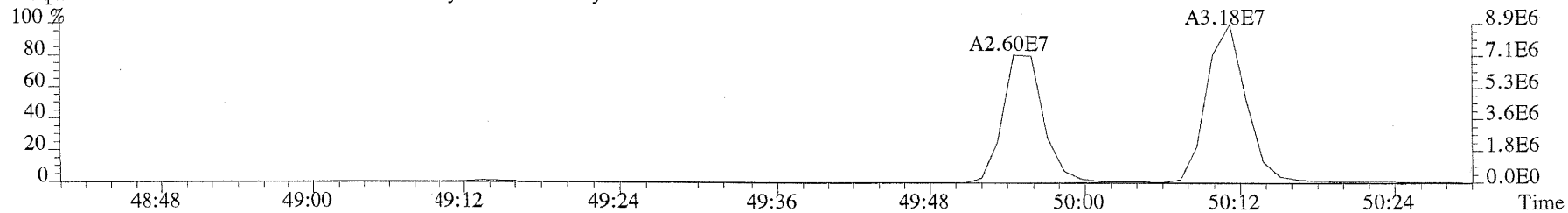
File:25JUL18Z #1-315 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



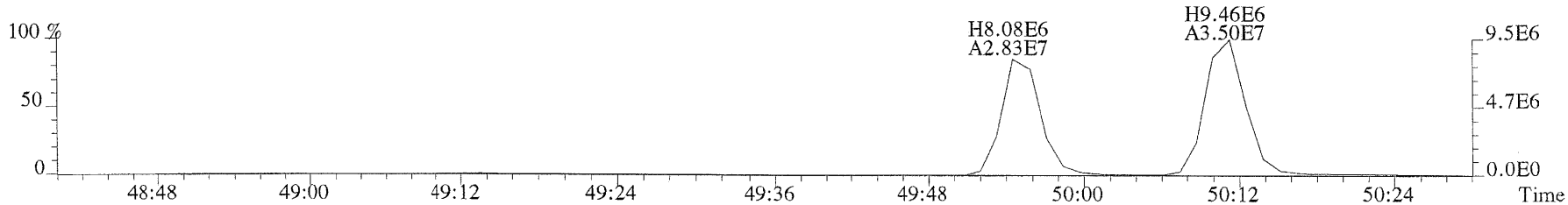
File:25JUL18Z #1-315 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



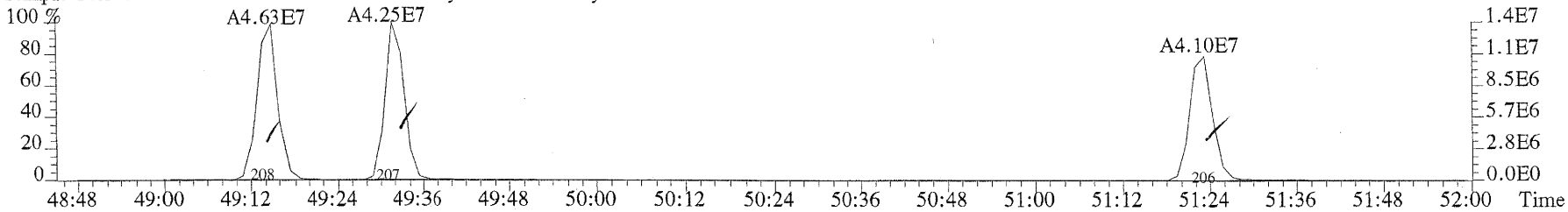
File:25JUL18Z #1-315 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



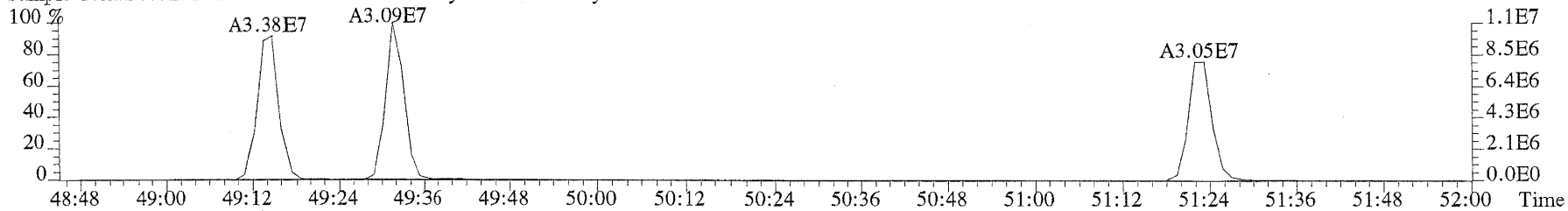
File:25JUL18Z #1-315 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



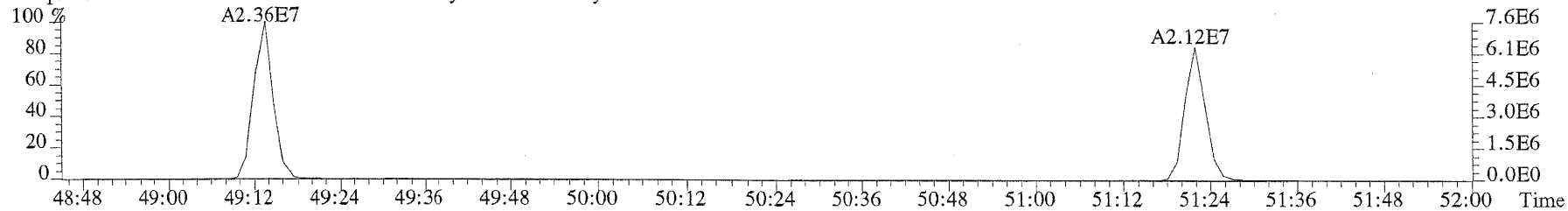
File:25JUL18Z #1-315 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



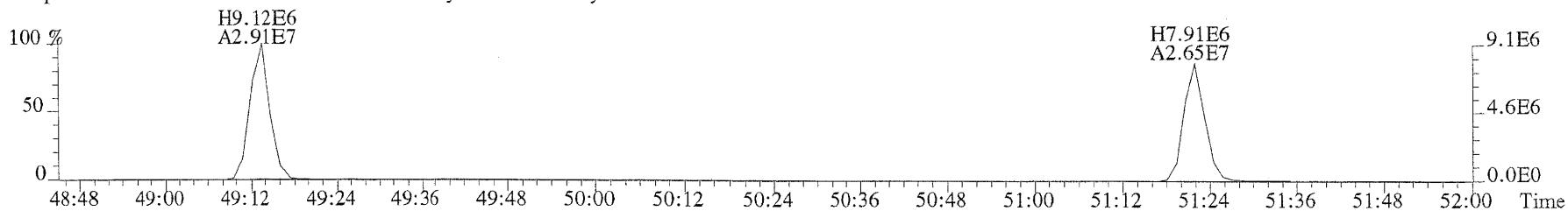
File:25JUL18Z #1-315 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



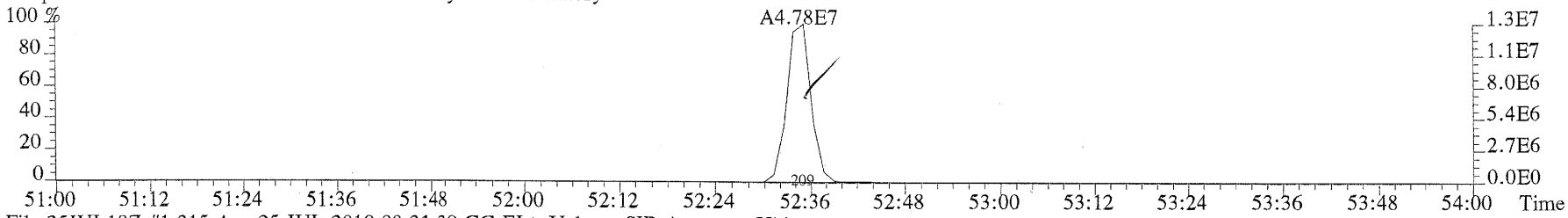
File:25JUL18Z #1-315 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



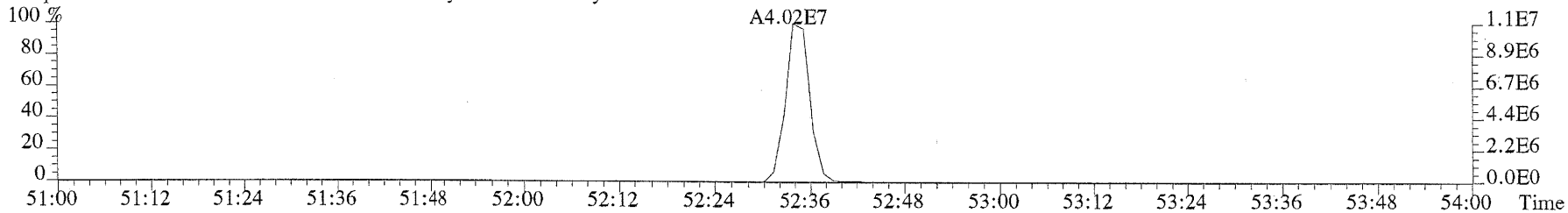
File:25JUL18Z #1-315 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



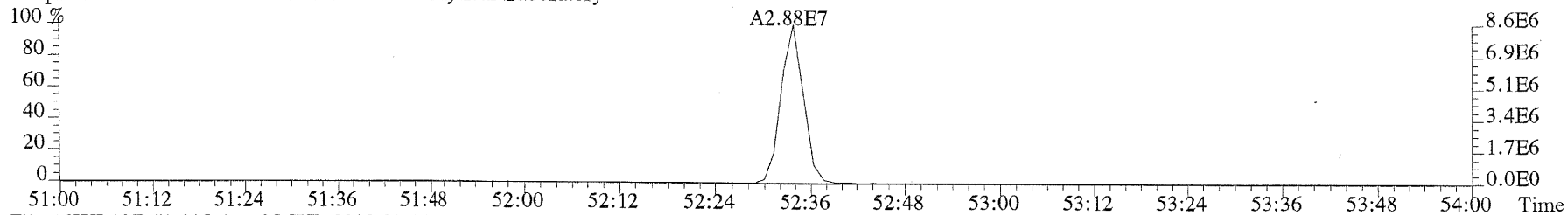
File:25JUL18Z #1-315 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



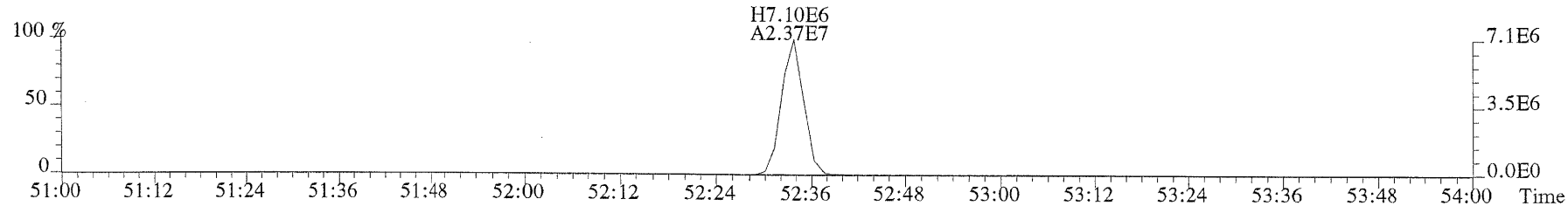
File:25JUL18Z #1-315 Acq:25-JUL-2018 08:21:39 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072518Z1 File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-315 Acq:25-JUL-2018 08:21:39 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:SS072518Z1 File Text:Frontier Analytical Laboratory



File:25JUL18Z #1-315 Acq:25-JUL-2018 08:21:39 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:SS072518Z1 File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 25JUL18Z Sam:16 Analysis Date: 25-JUL-18 22:01:08

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.26	2.66-3.60	y	60.0	37.5 - 62.5
PCB-3	M/M+2	3.26	2.66-3.60	y	60.0	37.5 - 62.5
PCB-4	M/M+2	1.55	1.33-1.79	y	57.1	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	57.5	37.5 - 62.5
PCB-19	M/M+2	1.07	0.88-1.20	y	52.5	37.5 - 62.5
PCB-37	M/M+2	1.07	0.88-1.20	y	50.2	37.5 - 62.5
PCB-54	M/M+2	0.82	0.65-0.89	y	56.0	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	56.7	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	54.4	37.5 - 62.5
PCB-104	M+2/M+4	1.57	1.32-1.78	y	52.7	37.5 - 62.5
PCB-105	M+2/M+4	1.54	1.32-1.78	y	50.9	37.5 - 62.5
PCB-114	M+2/M+4	1.57	1.32-1.78	y	50.0	37.5 - 62.5
PCB-118	M+2/M+4	1.59	1.32-1.78	y	51.1	37.5 - 62.5
PCB-123	M+2/M+4	1.57	1.32-1.78	y	49.8	37.5 - 62.5
PCB-126	M+2/M+4	1.55	1.32-1.78	y	51.0	37.5 - 62.5
PCB-155	M+2/M+4	1.30	1.05-1.43	y	55.7	37.5 - 62.5
PCB-156	M+2/M+4	1.31	1.05-1.43	y	56.6	37.5 - 62.5
PCB-157	M+2/M+4	1.32	1.05-1.43	y	55.2	37.5 - 62.5
PCB-167	M+2/M+4	1.30	1.05-1.43	y	56.5	37.5 - 62.5
PCB-169	M+2/M+4	1.31	1.05-1.43	y	55.5	37.5 - 62.5
PCB-188	M+2/M+4	1.08	0.89-1.21	y	51.5	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	55.5	37.5 - 62.5
PCB-202	M+2/M+4	0.95	0.76-1.02	y	52.2	37.5 - 62.5
PCB-205	M+2/M+4	0.93	0.76-1.02	y	56.0	37.5 - 62.5
PCB-206	M+4/M+6	1.38	1.13-1.53	y	52.8	37.5 - 62.5
PCB-208	M+4/M+6	1.39	1.13-1.53	y	52.8	37.5 - 62.5
PCB-209	M+4/M+6	1.21	0.99-1.33	y	53.4	37.5 - 62.5

Analyst: [signature] Date: 7/24/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 25JUL18Z Sam:16 Analysis Date: 25-JUL-18 22:01:08

	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	3.25	2.66-3.60	y	70.5	50.0 - 145
13C-PCB-3	M/M+2	3.37	2.66-3.60	y	73.8	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	101	50.0 - 145
13C-PCB-15	M/M+2	1.63	1.33-1.79	y	92.9	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	72.7	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	138	50.0 - 145
13C-PCB-54	M/M+2	0.83	0.65-0.89	y	92.0	50.0 - 145
13C-PCB-77	M/M+2	0.82	0.65-0.89	y	133	50.0 - 145
13C-PCB-81	M/M+2	0.83	0.65-0.89	y	132	50.0 - 145
13C-PCB-104	M+2/M+4	1.61	1.32-1.78	y	66.8	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	126	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	132	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	130	50.0 - 145
13C-PCB-123	M+2/M+4	1.63	1.32-1.78	y	127	50.0 - 145
13C-PCB-126	M+2/M+4	1.63	1.32-1.78	y	127	50.0 - 145
13C-PCB-155	M+2/M+4	1.32	1.05-1.43	y	73.2	50.0 - 145
13C-PCB-156	M+2/M+4	1.30	1.05-1.43	y	92.1	50.0 - 145
13C-PCB-157	M+2/M+4	1.31	1.05-1.43	y	92.1	50.0 - 145
13C-PCB-167	M+2/M+4	1.29	1.05-1.43	y	93.9	50.0 - 145
13C-PCB-169	M+2/M+4	1.28	1.05-1.43	y	94.4	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	79.1	50.0 - 145
13C-PCB-189	M+2/M+4	1.10	0.89-1.21	y	70.6	50.0 - 145
13C-PCB-202	M+2/M+4	0.93	0.76-1.02	y	62.4	50.0 - 145
13C-PCB-205	M+2/M+4	0.93	0.76-1.02	y	99.0	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	89.6	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	73.1	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	72.8	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.09	0.88-1.20	y	135	65.0 - 135
13C-PCB-111	M+2/M+4	1.63	1.32-1.78	y	94.1	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	74.5	75.0 - 125

Analyst: [signature] Date: 7/26/18

FAL ID: ST072518Z2 Filename: 25JUL18Z Sam:16 Acquired: 25-JUL-18 22:01:08 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 R170805A ConCal: NA EndCal: NA
Results: 25JUL18Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	5.08e+07	3.26 y	14:34	1.11	60.0		2.50	-	-	*	-
13C-PCB-1	7.66e+07	3.25 y	14:33	1.07	70.5		2.50				70.5
PCB-3	5.25e+07	3.26 y	17:00	1.13	60.0		2.50	-	-	*	-
13C-PCB-3	7.76e+07	3.37 y	16:59	1.03	73.8		2.50				73.8
PCB-4	4.51e+07	1.55 y	18:14	1.14	57.1		2.50	-	-	*	-
13C-PCB-4	6.91e+07	1.60 y	18:13	0.67	101		2.50				101
PCB-15	6.21e+07	1.57 y	23:47	1.10	57.5		2.50	-	-	*	-
13C-PCB-15	9.78e+07	1.63 y	23:47	1.03	92.9		2.50				92.9
PCB-19	2.25e+07	1.07 y	22:07	1.23	52.5		2.50	-	-	*	-
13C-PCB-19	3.49e+07	1.07 y	22:06	0.47	72.7		2.50				72.7
13C-PCB-9	1.02e+08	1.64 y	19:54	-	435		2.50				
PCB-37	5.07e+07	1.07 y	30:27	1.26	50.2		2.50	-	-	*	-
13C-PCB-37	8.05e+07	1.09 y	30:26	1.40	138		2.50				138
PCB-54	2.94e+07	0.82 y	25:40	1.16	56.0		2.50	-	-	*	-
13C-PCB-54	4.54e+07	0.83 y	25:38	1.19	92.0		2.50				92.0
PCB-104	1.44e+07	1.57 y	30:06	1.22	52.7		2.50	-	-	*	-
13C-PCB-104	2.22e+07	1.61 y	30:04	0.80	66.8		2.50				66.8
13C-PCB-28	8.59e+07	1.09 y	26:45	1.53	135		2.50				135
13C-PCB-52	4.17e+07	0.83 y	29:00	-	321		2.50				
PCB-81	3.46e+07	0.78 y	36:13	1.17	54.4		2.50	-	-	*	-
13C-PCB-81	5.43e+07	0.83 y	36:12	1.37	132		2.50				132
PCB-77	3.52e+07	0.79 y	36:47	1.11	56.7		2.50	-	-	*	-
13C-PCB-77	5.61e+07	0.82 y	36:46	1.41	133		2.50				133
PCB-155	1.43e+07	1.30 y	34:16	1.14	55.7		2.50	-	-	*	-
13C-PCB-155	2.24e+07	1.32 y	34:14	1.02	73.2		2.50				73.2
13C-PCB-111	3.57e+07	1.63 y	36:21	1.26	94.1		2.50				94.1
13C-PCB-101	3.00e+07	1.64 y	34:42	-	266		2.50				
PCB-123	2.90e+07	1.57 y	38:24	1.12	49.8		2.50	-	-	*	-
13C-PCB-123	5.18e+07	1.63 y	38:23	1.36	127		2.50				127
PCB-118	3.29e+07	1.59 y	38:34	1.16	51.1		2.50	-	-	*	-
13C-PCB-118	5.55e+07	1.61 y	38:34	1.42	130		2.50				130
PCB-114	3.09e+07	1.57 y	39:12	1.13	50.0		2.50	-	-	*	-
13C-PCB-114	5.48e+07	1.61 y	39:10	1.38	132		2.50				132
PCB-105	2.95e+07	1.54 y	40:01	1.11	50.9		2.50	-	-	*	-
13C-PCB-105	5.23e+07	1.61 y	40:00	1.38	126		2.50				126
PCB-126	2.78e+07	1.55 y	42:10	1.11	51.0		2.50	-	-	*	-
13C-PCB-126	4.90e+07	1.63 y	42:08	1.29	127		2.50				127
PCB-167	2.07e+07	1.30 y	43:30	1.05	56.5		2.50	-	-	*	-
13C-PCB-167	3.48e+07	1.29 y	43:29	1.23	93.9		2.50				93.9
PCB-156	2.01e+07	1.31 y	44:44	1.08	56.6		2.50	-	-	*	-
13C-PCB-156	3.30e+07	1.30 y	44:43	1.19	92.1		2.50				92.1
PCB-157	2.00e+07	1.32 y	44:59	1.06	55.2		2.50	-	-	*	-
13C-PCB-157	3.43e+07	1.31 y	44:58	1.24	92.1		2.50				92.1
PCB-169	1.92e+07	1.31 y	46:51	1.06	55.5		2.50	-	-	*	-
13C-PCB-169	3.26e+07	1.28 y	46:51	1.15	94.4		2.50				94.4
PCB-188	1.58e+07	1.08 y	39:45	1.14	51.5		2.50	-	-	*	-
13C-PCB-188	2.68e+07	1.06 y	39:45	1.13	79.1		2.50				79.1
PCB-189	1.24e+07	1.07 y	48:30	1.12	55.5		2.50	-	-	*	-
13C-PCB-189	2.01e+07	1.10 y	48:30	0.94	70.6		2.50				70.6
PCB-202	8.25e+06	0.95 y	44:53	1.09	52.2		2.50	-	-	*	-
13C-PCB-202	1.45e+07	0.93 y	44:51	0.77	62.4		2.50				62.4
13C-PCB-178	1.71e+07	1.07 y	42:23	0.76	74.5		2.50				74.5
13C-PCB-138	3.01e+07	1.30 y	41:37	-	275		2.50				

FAL ID: ST072518Z2 Filename: 25JUL18Z Sam:16 Acquired: 25-JUL-18 22:01:08 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 R170805A ConCal: NA EndCal: NA
Results: 25JUL18Z GC Column: DB1MS Amount: 1.000

PCB-205	2.78e+07	0.93 y	50:08	1.04	56.0	2.50	-	-	*	-
13C-PCB-205	4.76e+07	0.93 y	50:08	1.32	99.0	2.50				99.0
PCB-208	1.80e+07	1.39 y	49:12	0.96	52.8	2.50	-	-	*	-
13C-PCB-208	3.54e+07	0.81 y	49:11	1.33	73.1	2.50				73.1
PCB-206	1.57e+07	1.38 y	51:20	0.97	52.8	2.50	-	-	*	-
13C-PCB-206	3.06e+07	0.79 y	51:19	0.94	89.6	2.50				89.6
PCB-209	1.73e+07	1.21 y	52:31	1.17	53.4	2.50	-	-	*	-
13C-PCB-209	2.77e+07	1.20 y	52:30	1.04	72.8	2.50				72.8
13C-PCB-194	3.64e+07	0.92 y	49:53	-	368	2.50				

Analyst: _____ Date: 7/26/18

Frontier Analytical Laboratory - Acquisition Log

Run Name:25JUL18Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

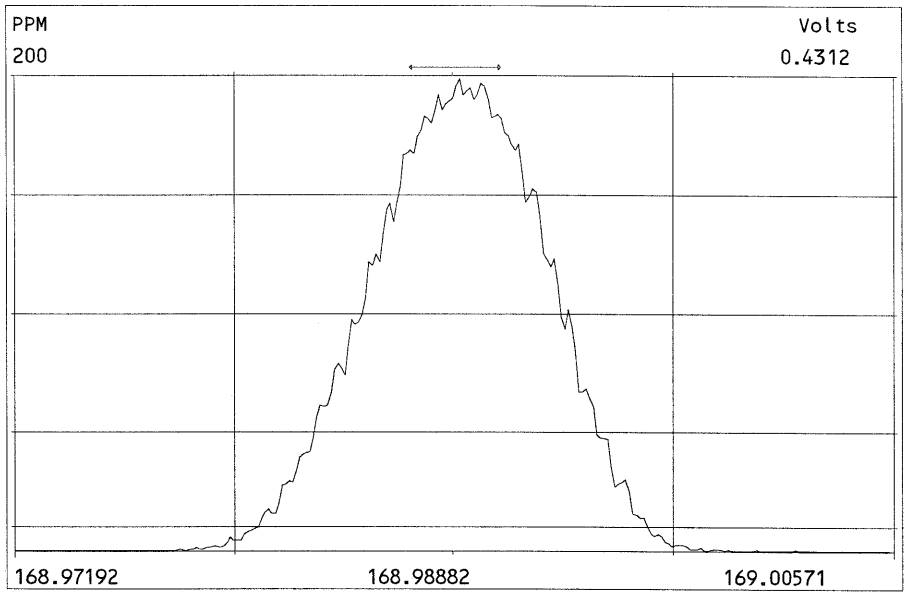
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
25JUL18Z	1	ST072518Z1	1668 CS3 170805A	25-JUL-18 07:23:19	ST072518Z1	ST072518Z2	BS
25JUL18Z	2	SS072518Z1	Daily 209 171222A	25-JUL-18 08:21:39	ST072518Z1	ST072518Z2	BS
25JUL18Z	3	04579-001-0001-OPR	OPR	25-JUL-18 09:20:01	ST072518Z1	ST072518Z2	BS
25JUL18Z	4	04579-001-0001-MB	Method Blank	25-JUL-18 10:18:22	ST072518Z1	ST072518Z2	BS
25JUL18Z	5	11704-002-0001-SA	LDW-Y1-SU-ENR-CA-S010	25-JUL-18 11:16:43	ST072518Z1	ST072518Z2	BS
25JUL18Z	6	11704-003-0001-SA	LDW-Y1-SU-ENR-CB-S010	25-JUL-18 12:15:29	ST072518Z1	ST072518Z2	BS
25JUL18Z	7	11704-004-0001-SA	LDW-Y1-SU-ENR-CC-S010	25-JUL-18 13:14:16	ST072518Z1	ST072518Z2	BS
25JUL18Z	8	11704-013-0001-SA	LDW-Y1-IN-ENR-CA-S010	25-JUL-18 14:12:37	ST072518Z1	ST072518Z2	BS
25JUL18Z	9	11704-014-0001-SA	LDW-Y1-IN-ENR-CB-S010	25-JUL-18 15:10:59	ST072518Z1	ST072518Z2	BS
25JUL18Z	10	11704-015-0001-SA	LDW-Y1-IN-ENR-CC-S010	25-JUL-18 16:09:45	ST072518Z1	ST072518Z2	BS
25JUL18Z	11	11704-018-0001-SA	LDW-Y1-SC-S010-TB	25-JUL-18 17:08:26	ST072518Z1	ST072518Z2	BS
25JUL18Z	12	11704-019-0001-SA	LDW-Y1-SU-S010-TB	25-JUL-18 18:06:47	ST072518Z1	ST072518Z2	BS
25JUL18Z	13	11704-020-0001-SA	LDW-Y1-IN-S010-TB	25-JUL-18 19:05:32	ST072518Z1	ST072518Z2	BS
25JUL18Z	14	SB072518Z1	Solvent Blank	25-JUL-18 20:03:58	ST072518Z1	ST072518Z2	BS
25JUL18Z	15	SB072518Z2	Solvent Blank	25-JUL-18 21:02:44	ST072518Z1	ST072518Z2	BS
25JUL18Z	16	ST072518Z2	1668 CS3 170805A	25-JUL-18 22:01:08	ST072518Z1	ST072518Z2	BS

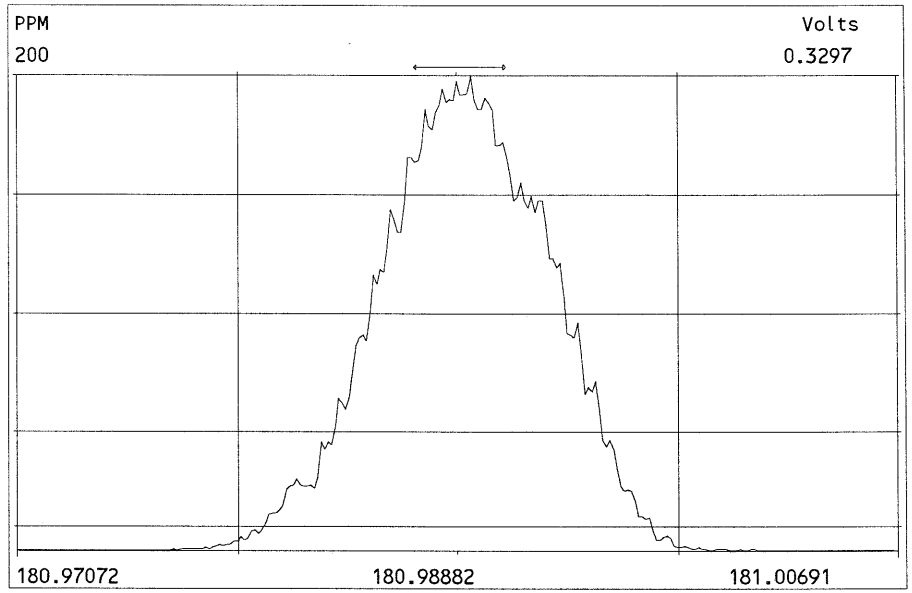
b 7/26/18

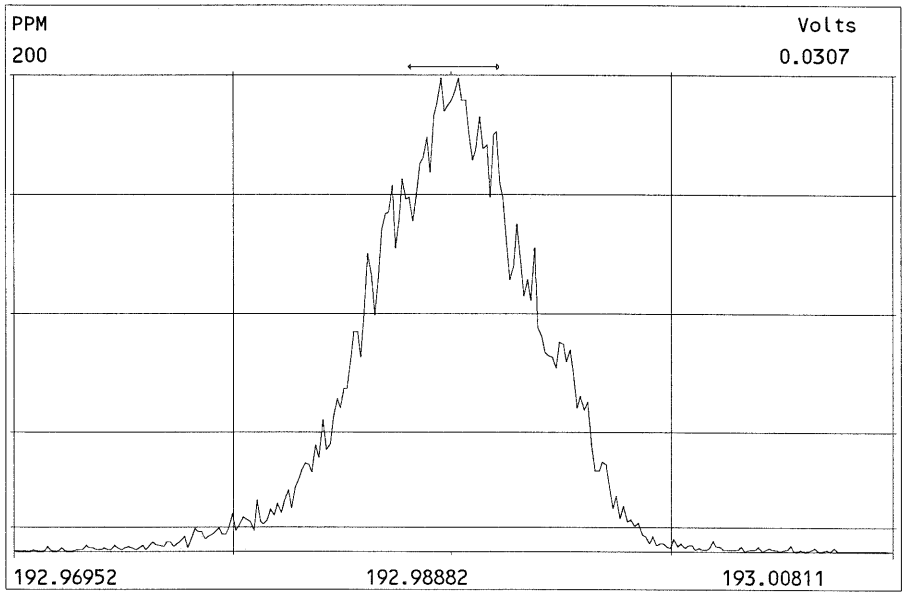
Data Backed Up:_____

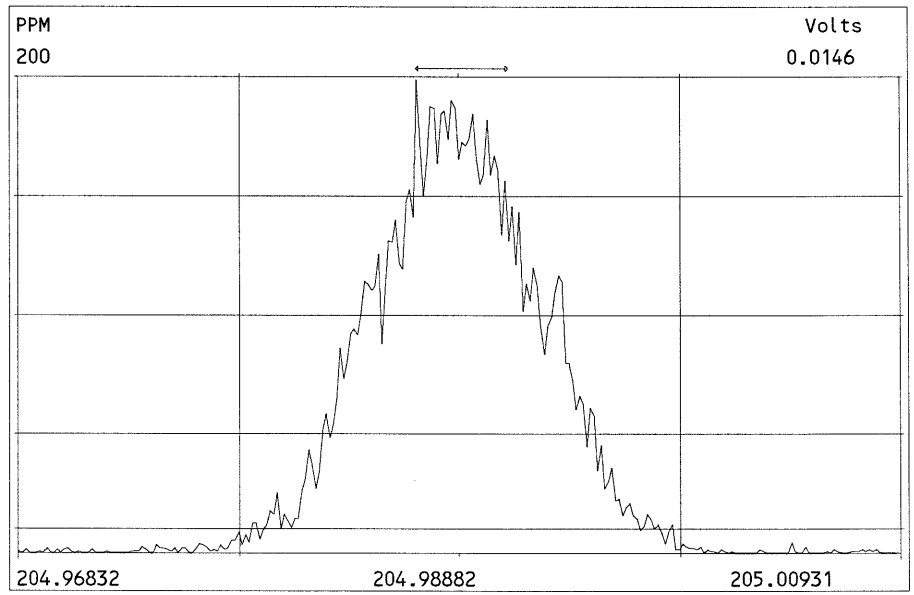
Date:_____

Peak Locate Examination:25-JUL-2018:07:20 File:25JUL18Z
Experiment:1668PCB Function:1 Reference:PFK

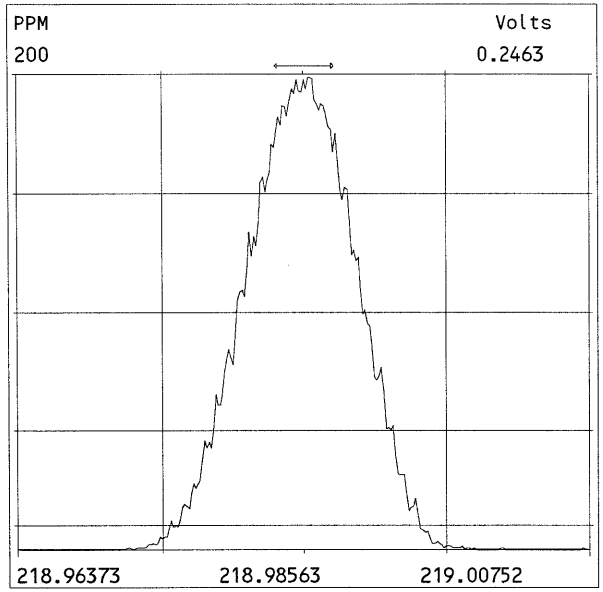


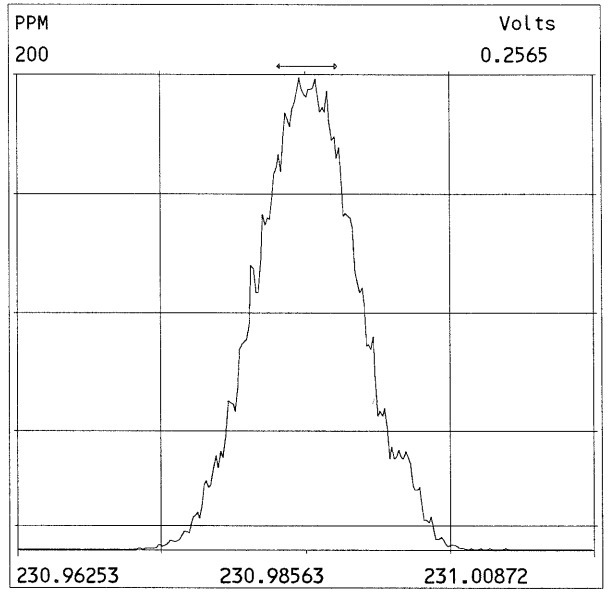


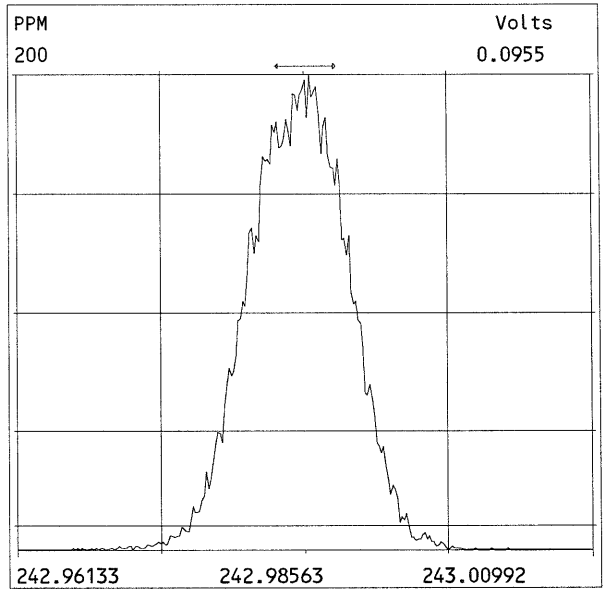


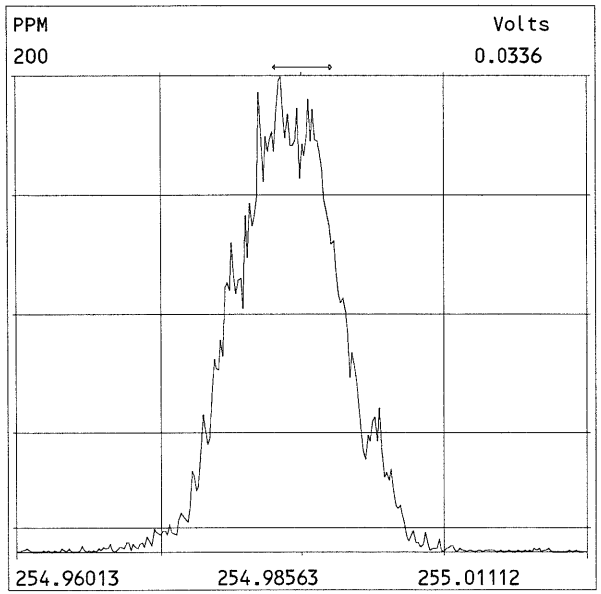


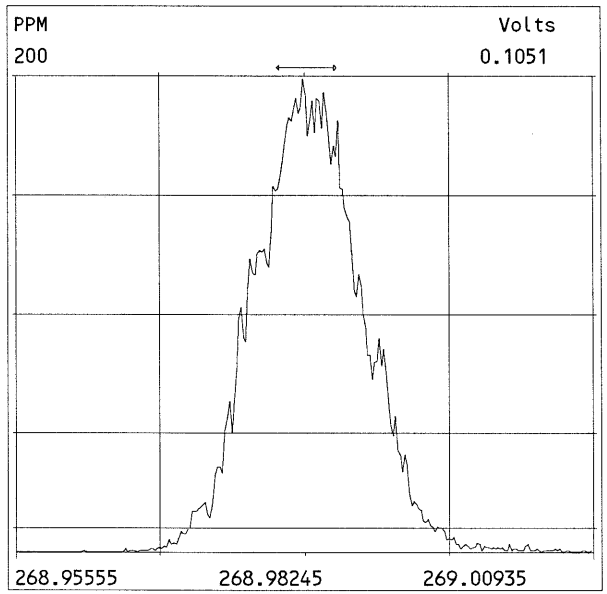
Peak Locate Examination:25-JUL-2018:07:20 File:25JUL18Z
Experiment:1668PCB Function:2 Reference:PFK

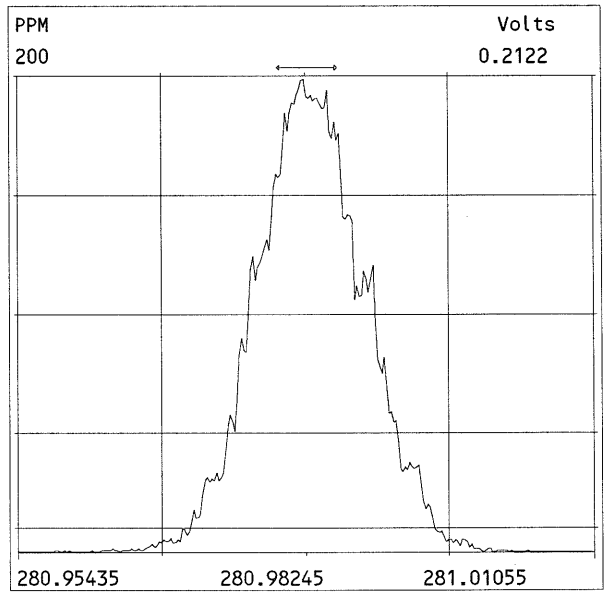




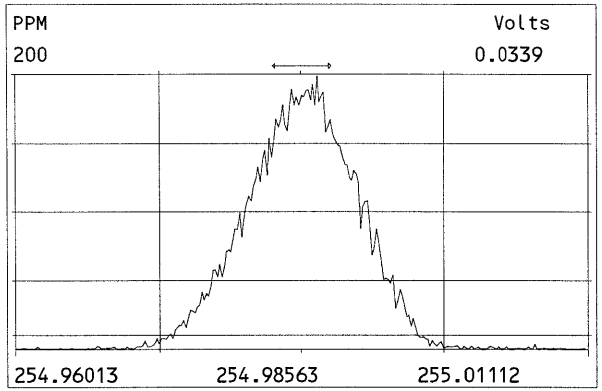


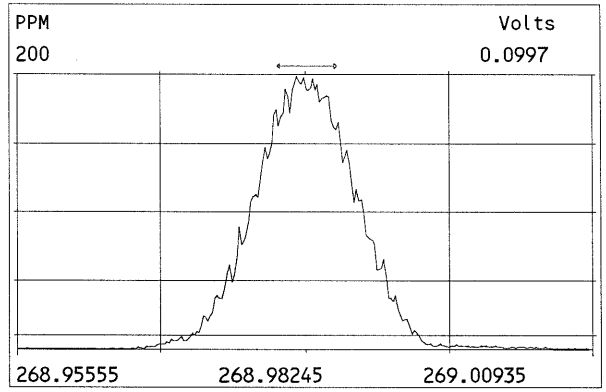


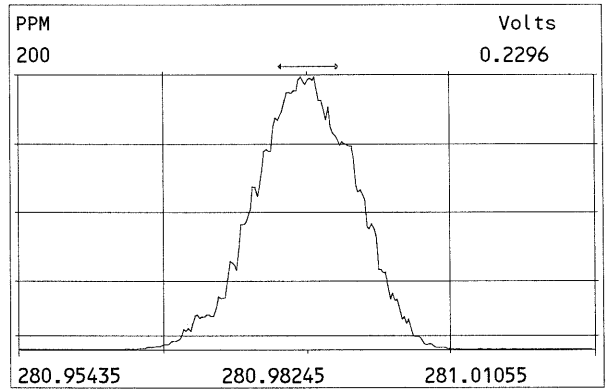


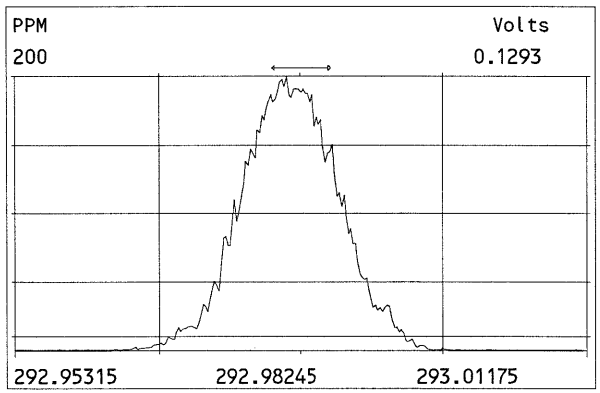


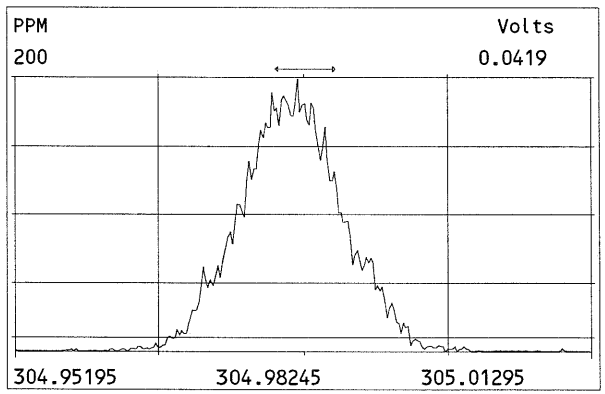
Peak Locate Examination:25-JUL-2018:07:21 File:25JUL18Z
Experiment:1668PCB Function:3 Reference:PFK

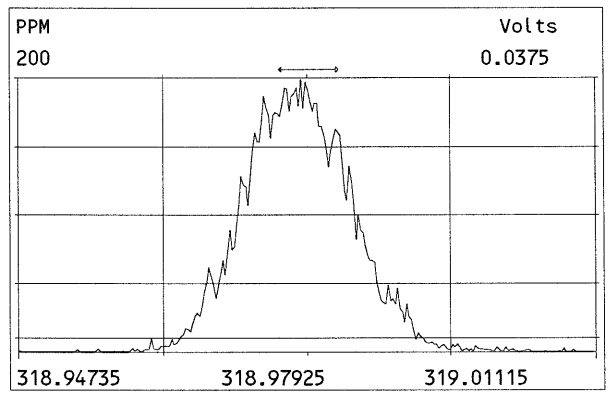


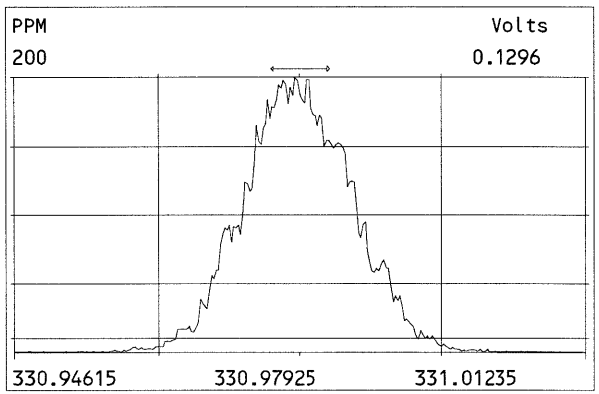


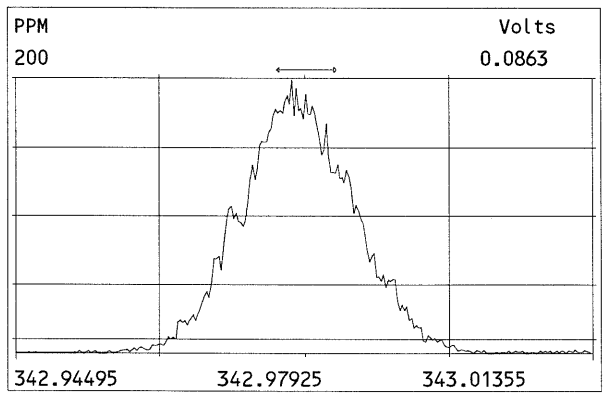




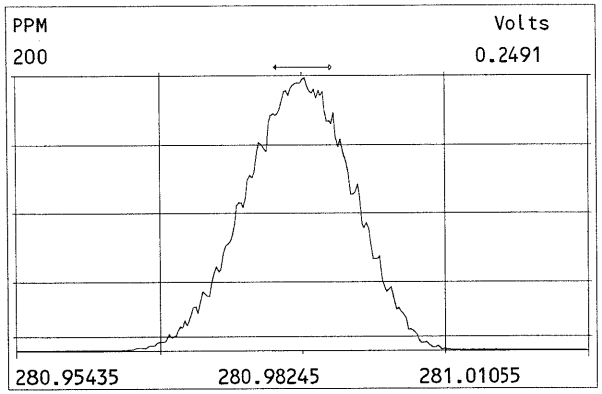


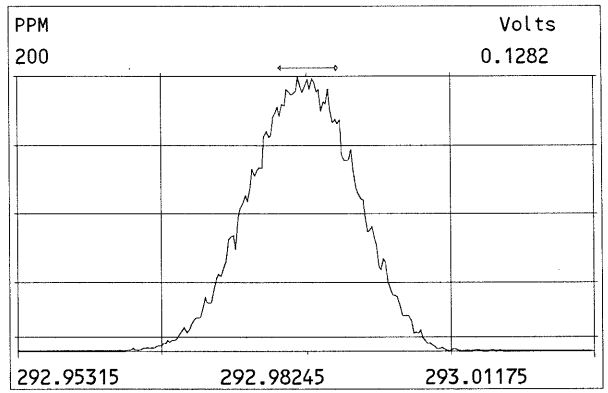


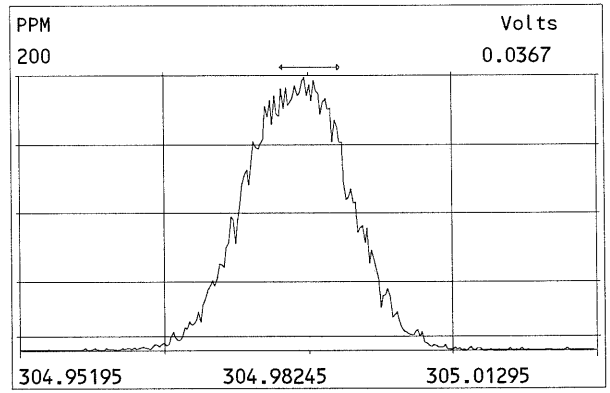


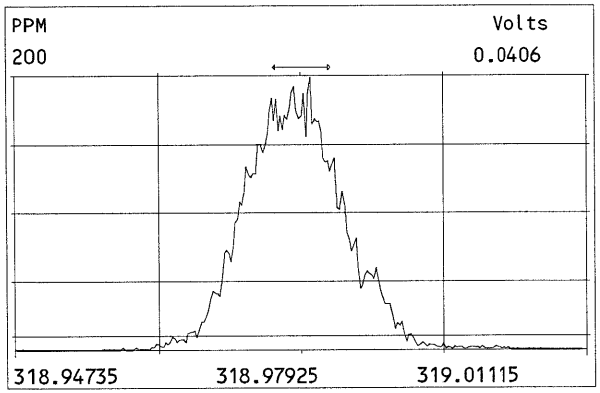


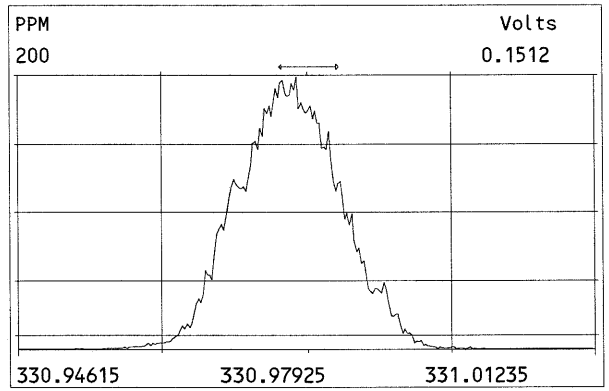
Peak Locate Examination:25-JUL-2018:07:22 File:25JUL18Z
Experiment:1668PCB Function:4 Reference:PFK

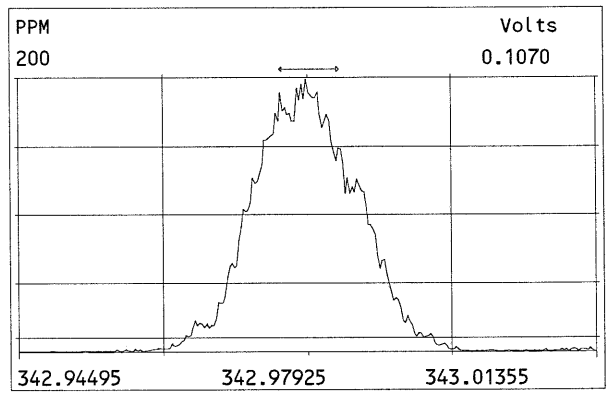


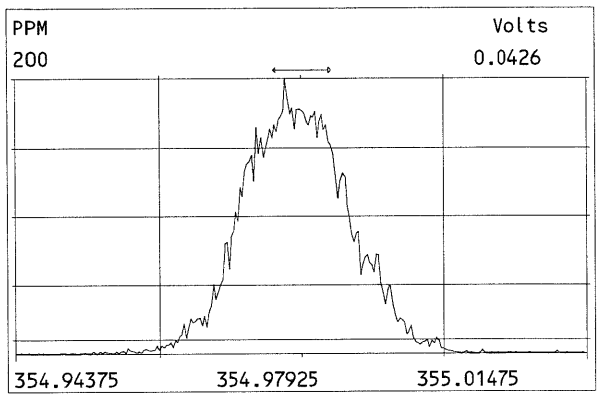


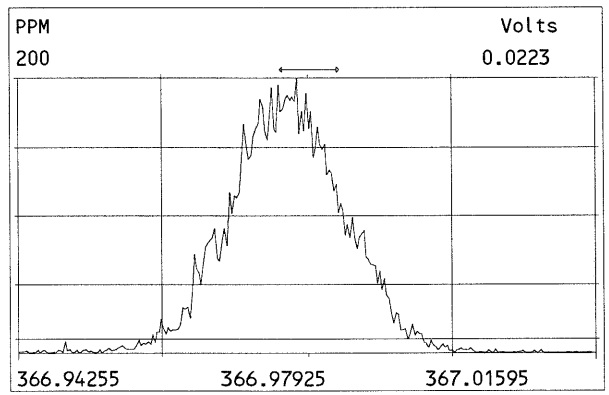


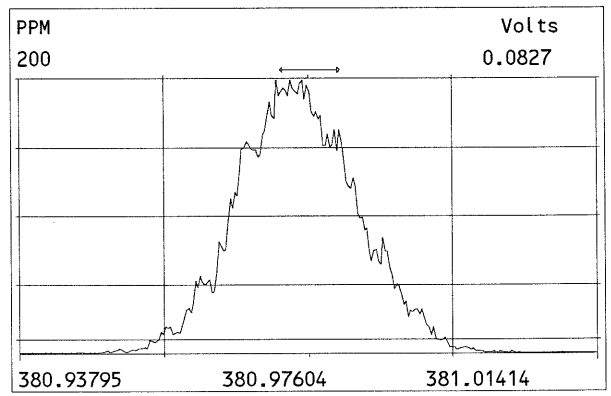




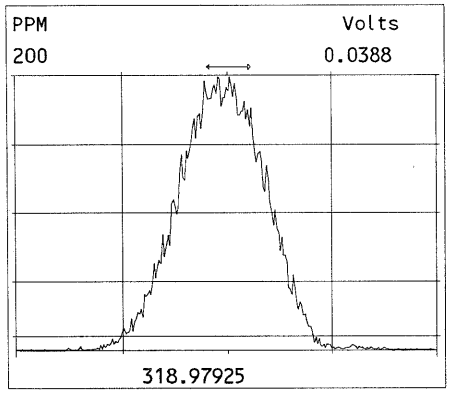


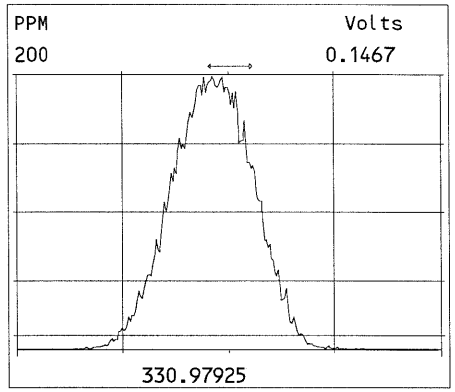


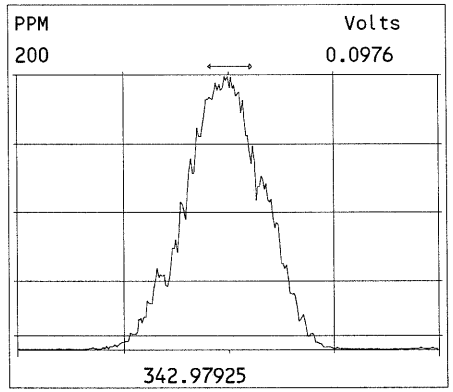


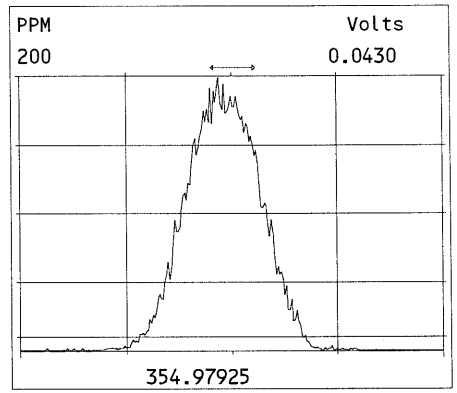


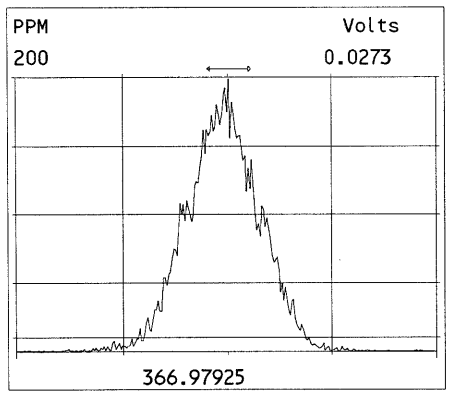
Peak Locate Examination:25-JUL-2018:07:22 File:25JUL18Z
Experiment:1668PCB Function:5 Reference:PFK

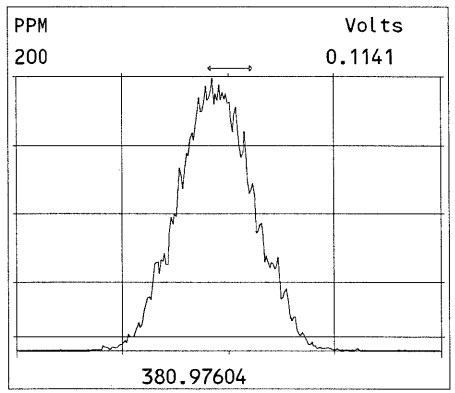


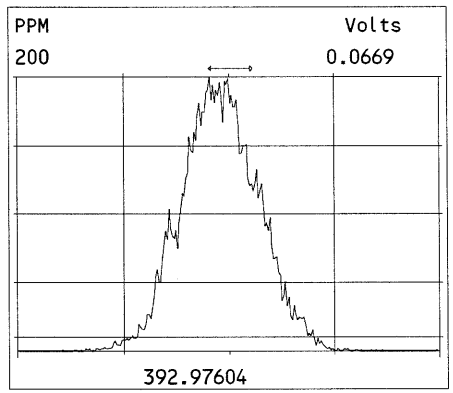


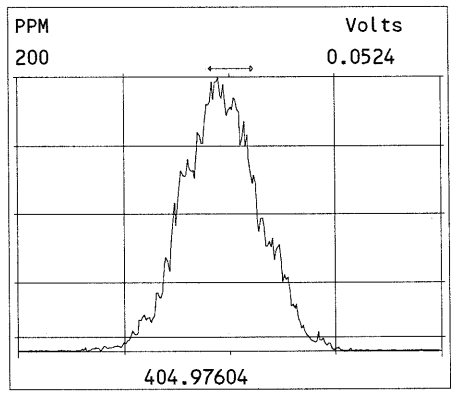


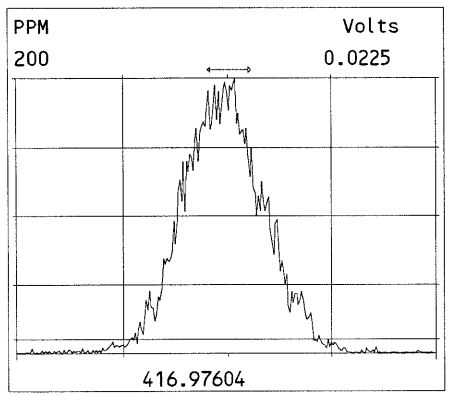


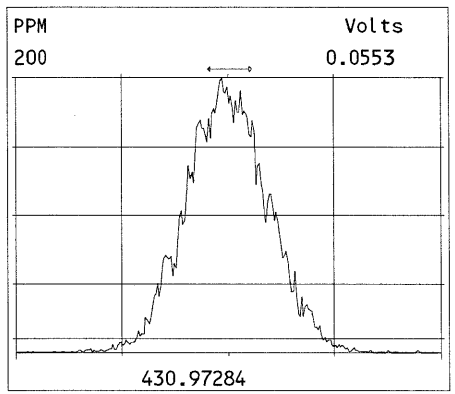


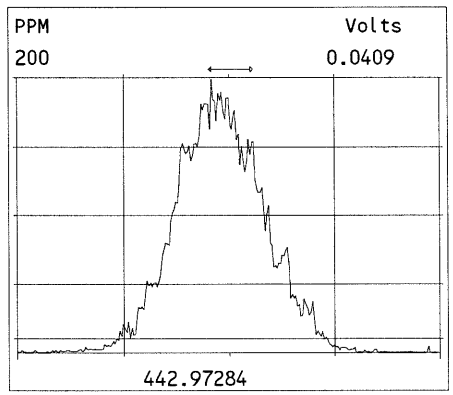




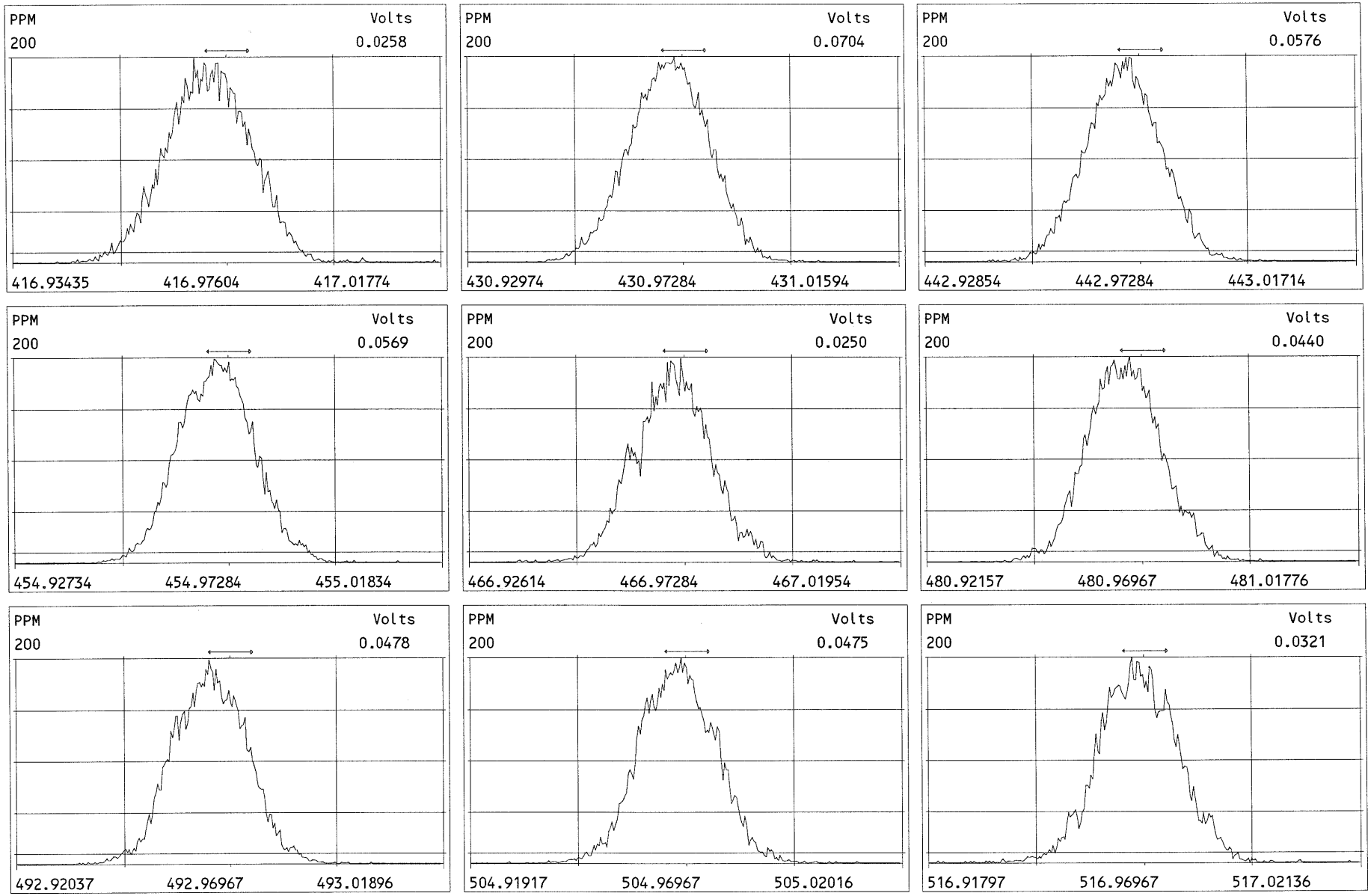




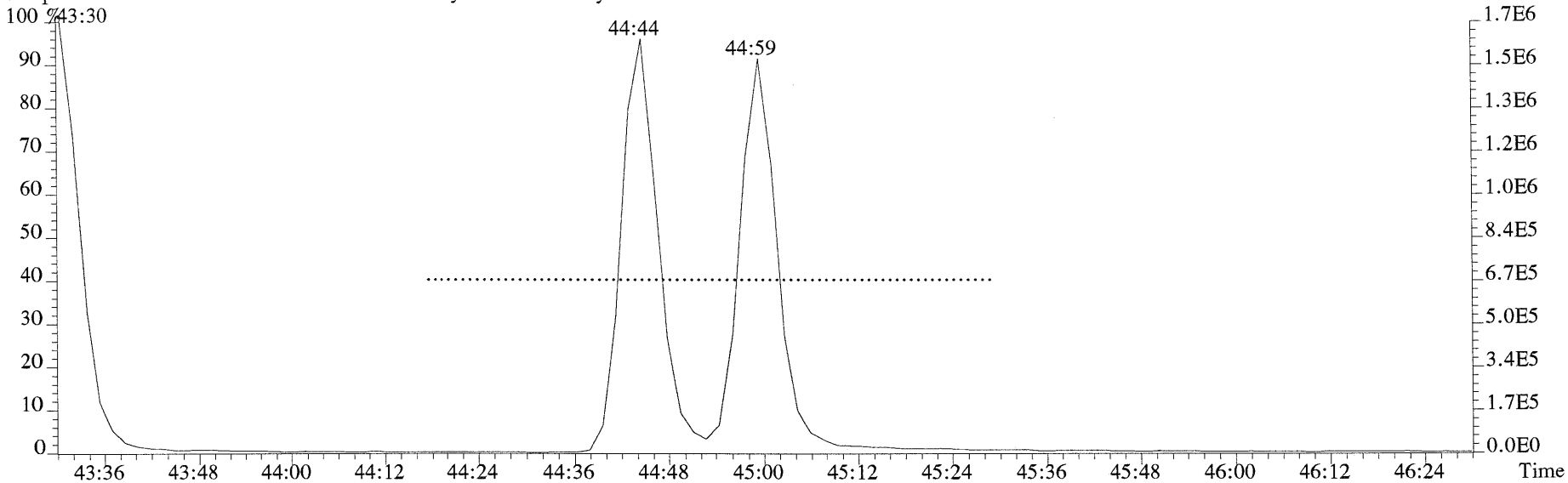




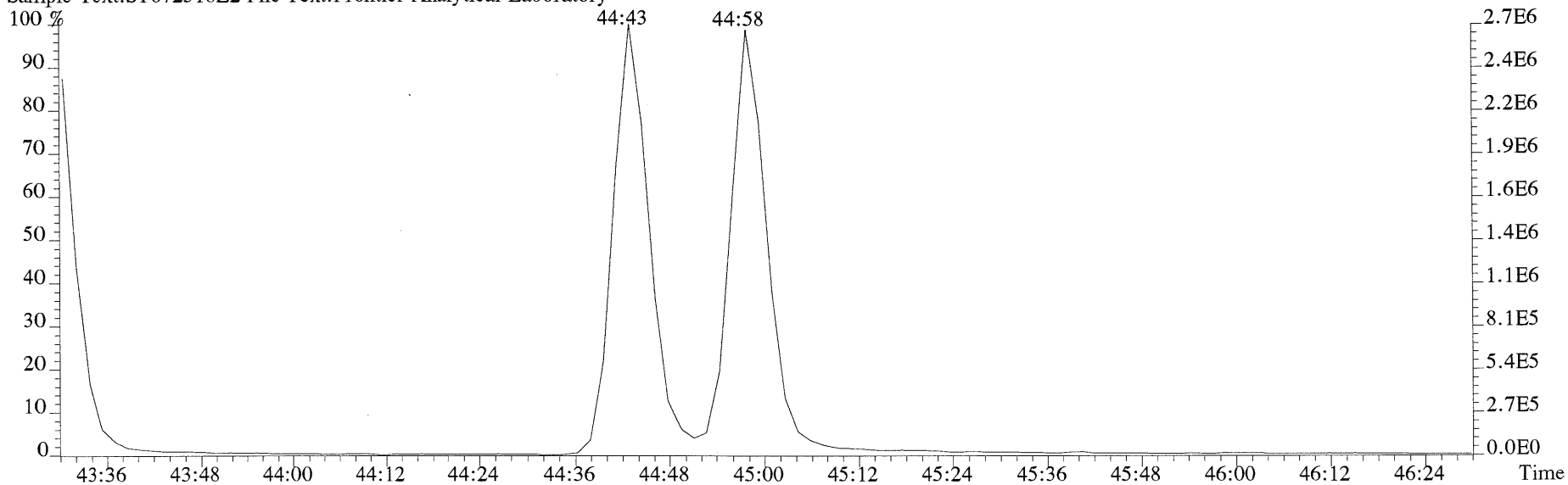
Peak Locate Examination:25-JUL-2018:07:22 File:25JUL18Z
Experiment:1668PCB Function:6 Reference:PFK



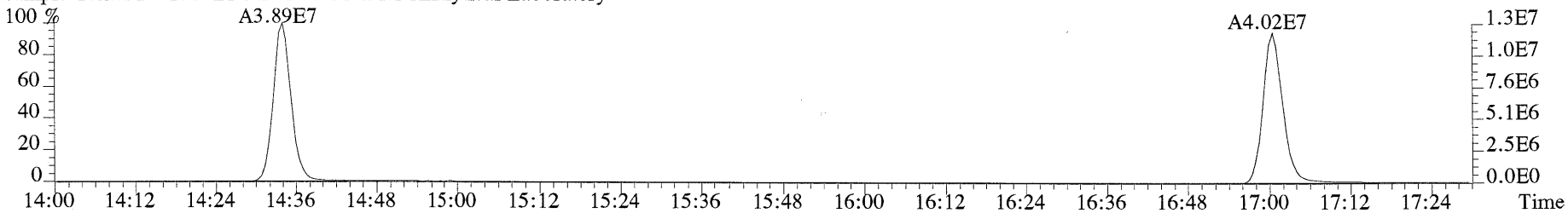
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



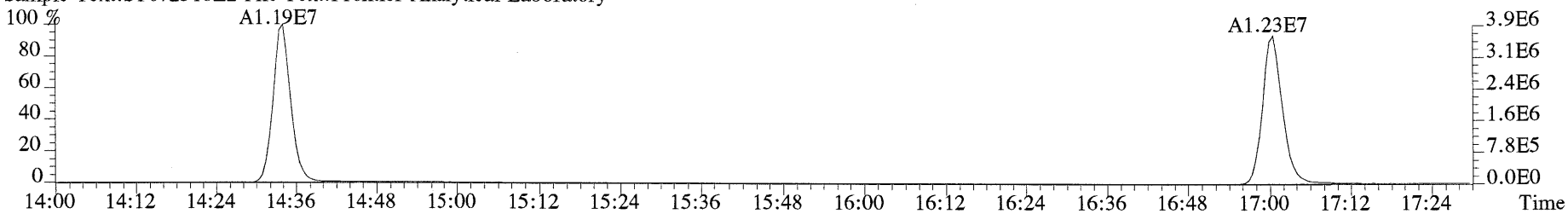
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



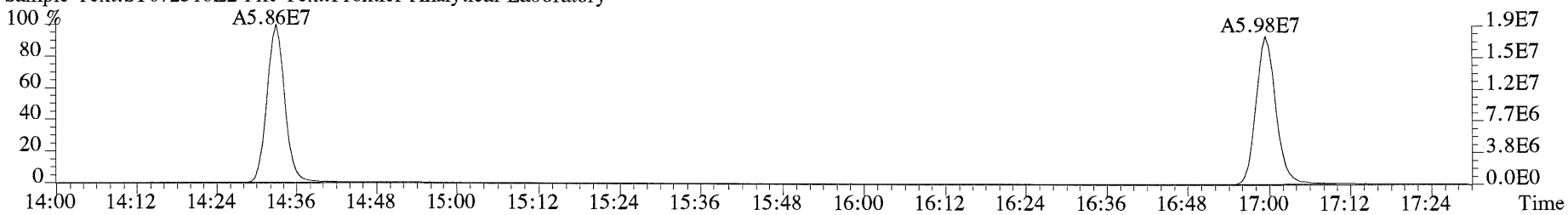
File:25JUL18Z #1-783 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



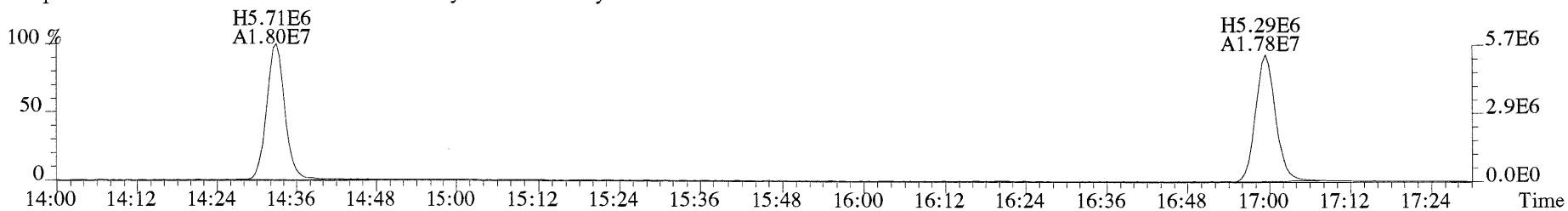
File:25JUL18Z #1-783 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



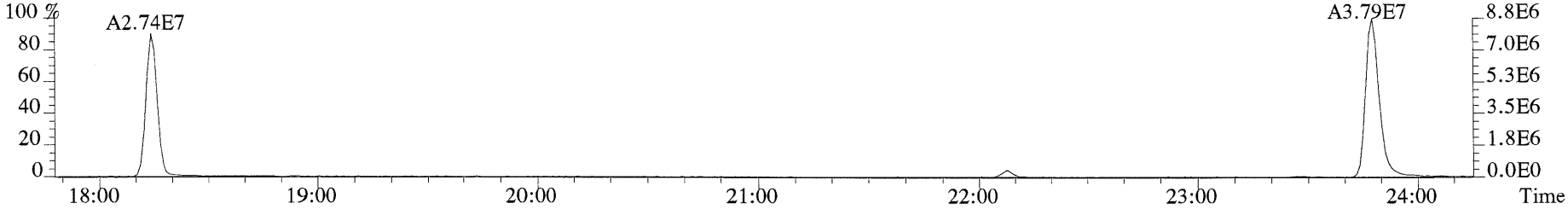
File:25JUL18Z #1-783 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



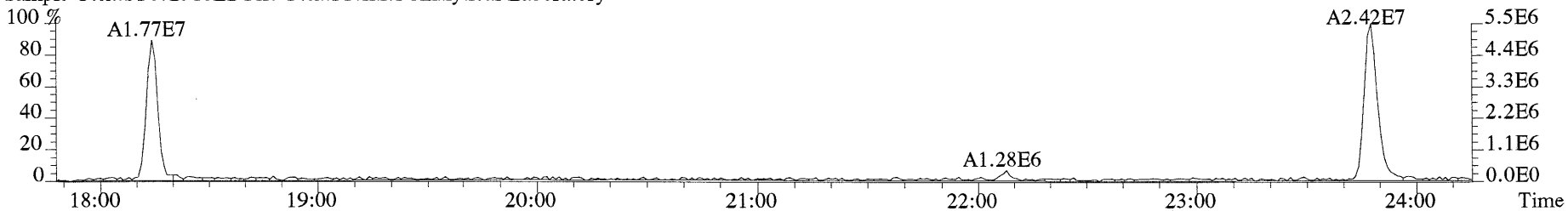
File:25JUL18Z #1-783 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



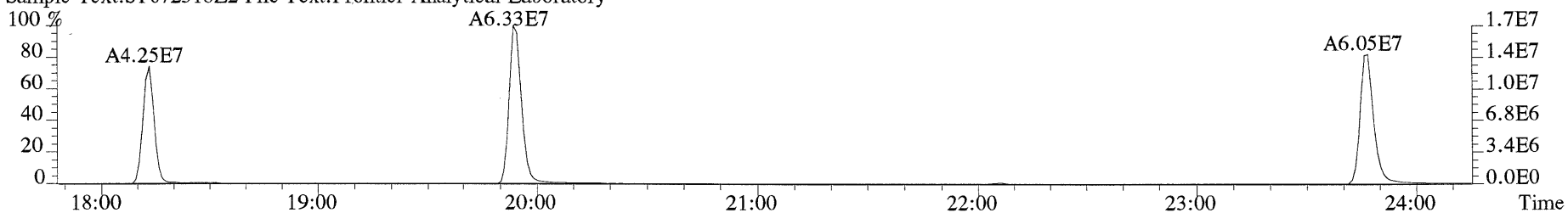
File:25JUL18Z #1-520 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



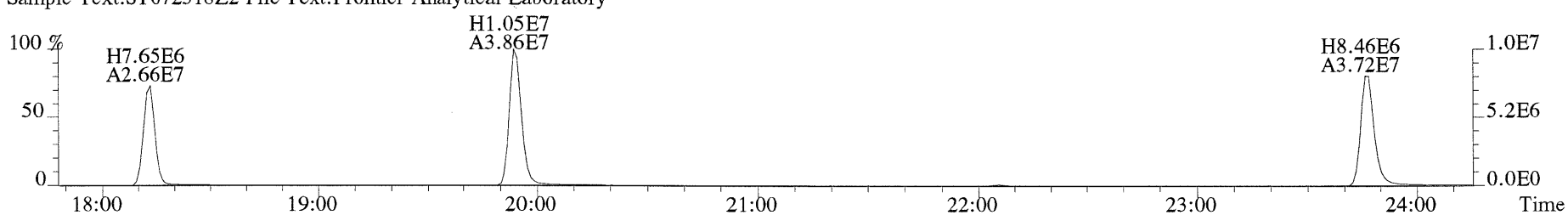
File:25JUL18Z #1-520 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



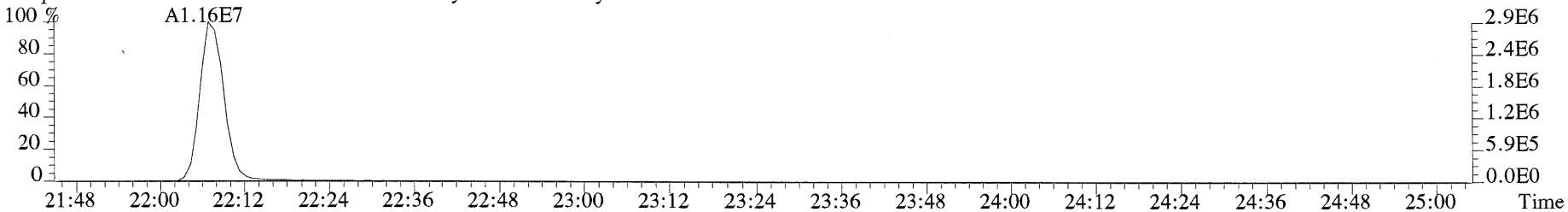
File:25JUL18Z #1-520 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



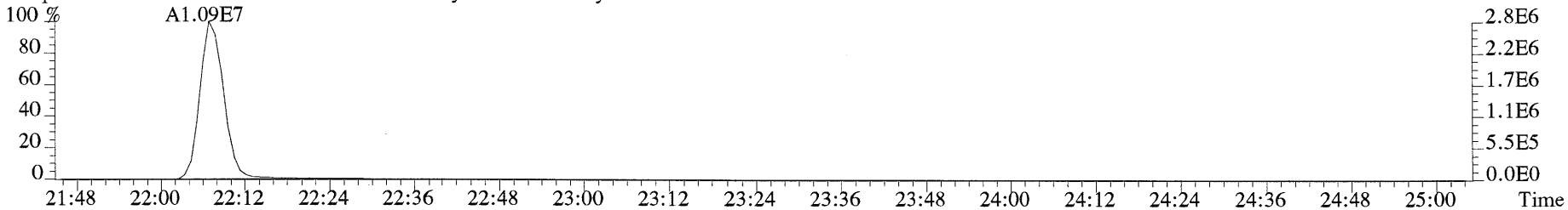
File:25JUL18Z #1-520 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



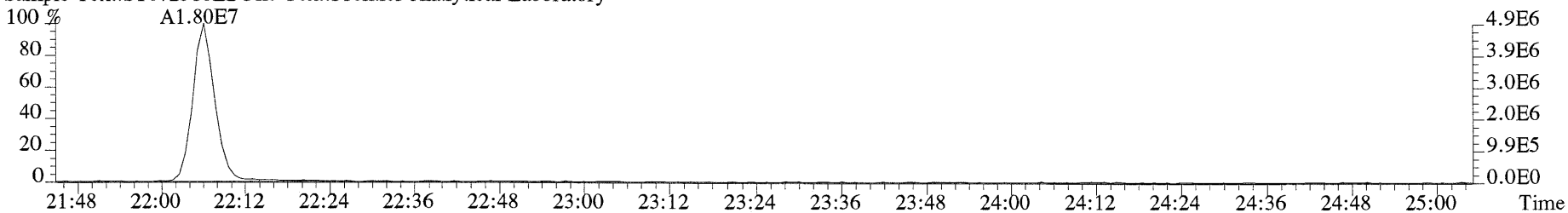
File:25JUL18Z #1-520 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



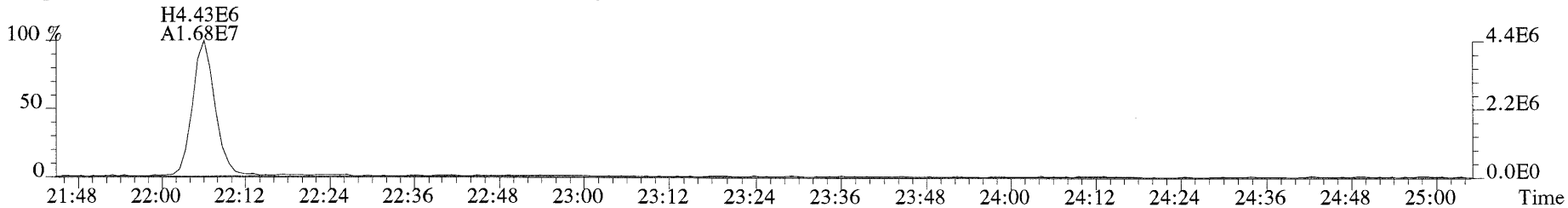
File:25JUL18Z #1-520 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



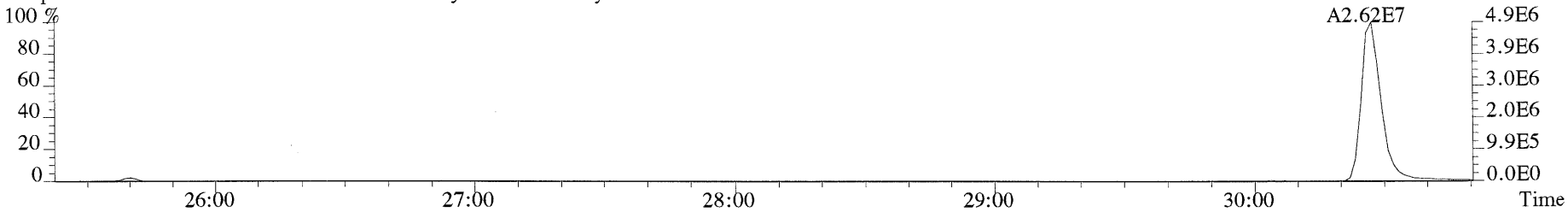
File:25JUL18Z #1-520 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



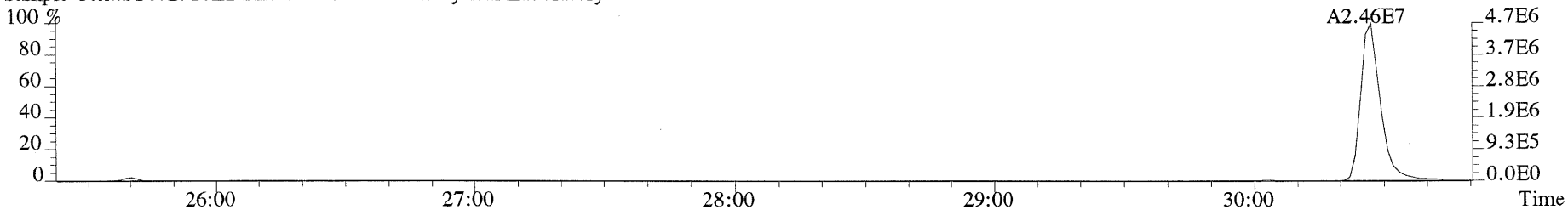
File:25JUL18Z #1-520 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



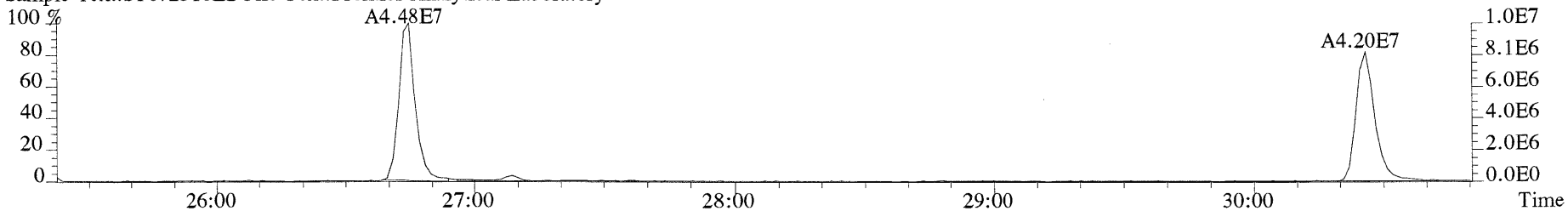
File:25JUL18Z #1-401 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



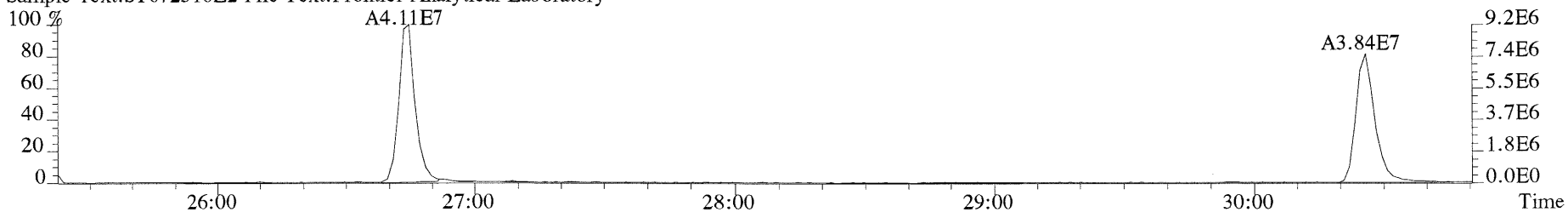
File:25JUL18Z #1-401 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



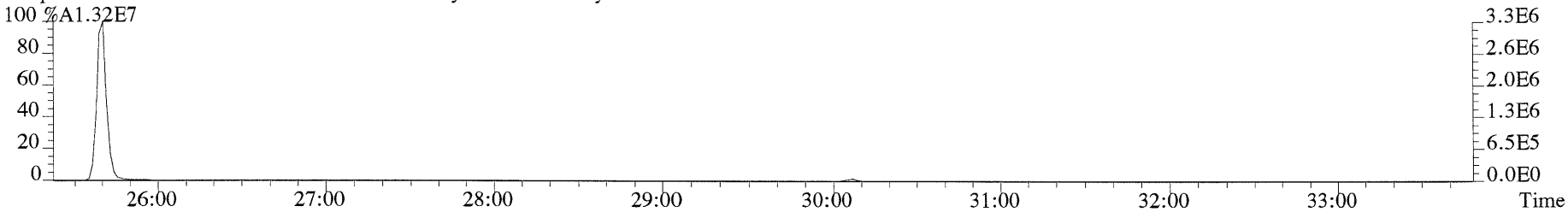
File:25JUL18Z #1-401 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



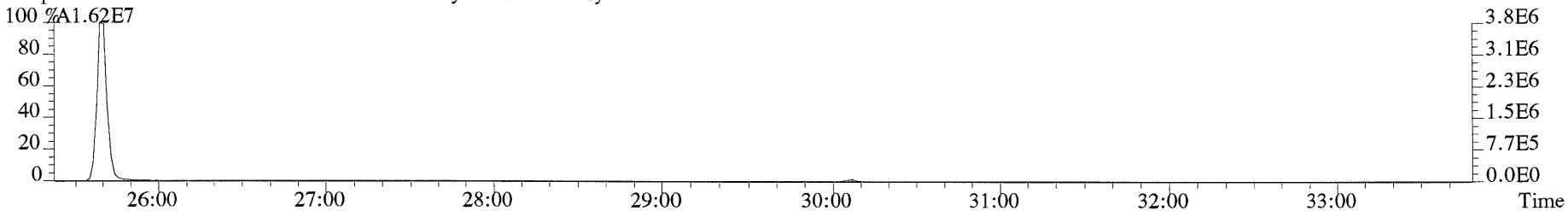
File:25JUL18Z #1-401 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



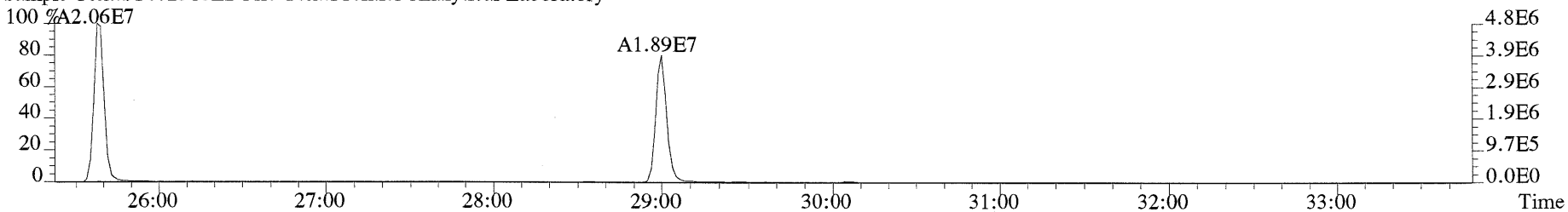
File:25JUL18Z #1-401 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



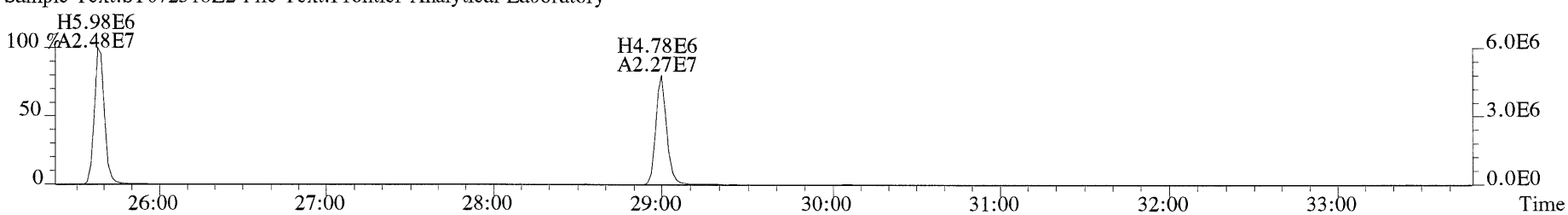
File:25JUL18Z #1-401 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



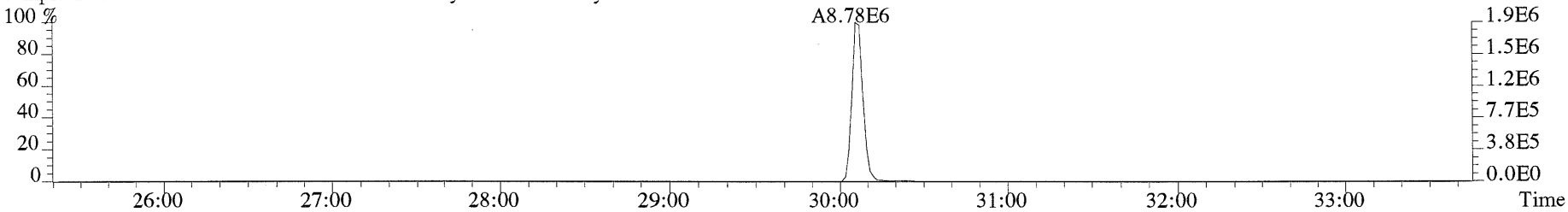
File:25JUL18Z #1-401 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



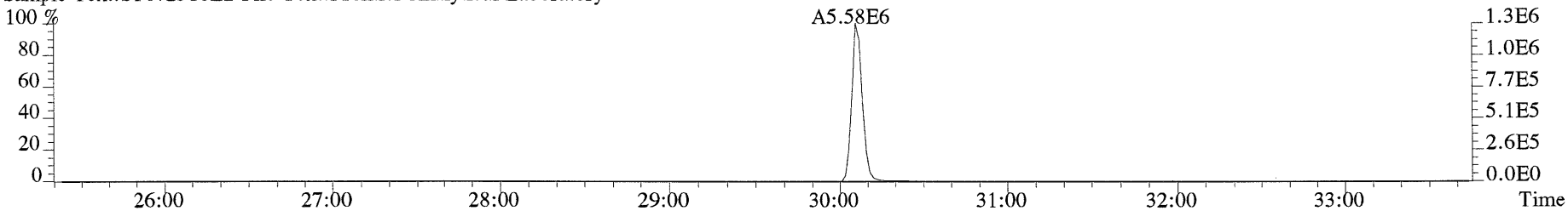
File:25JUL18Z #1-401 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



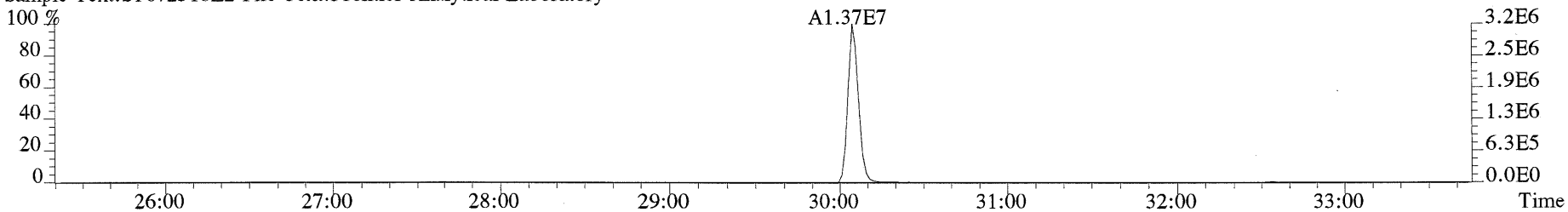
File:25JUL18Z #1-401 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



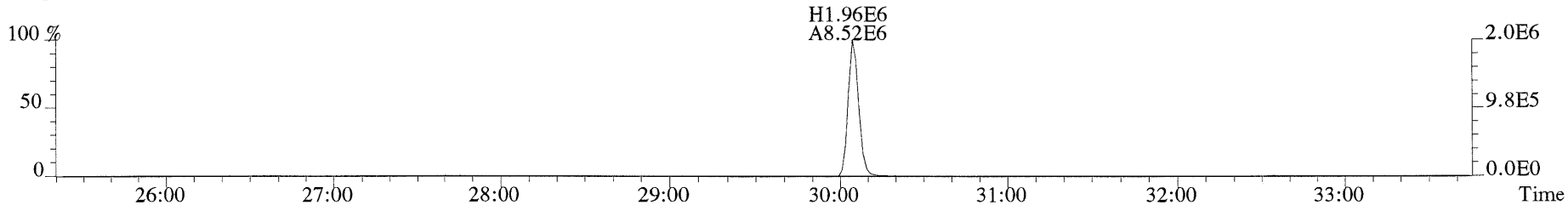
File:25JUL18Z #1-401 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



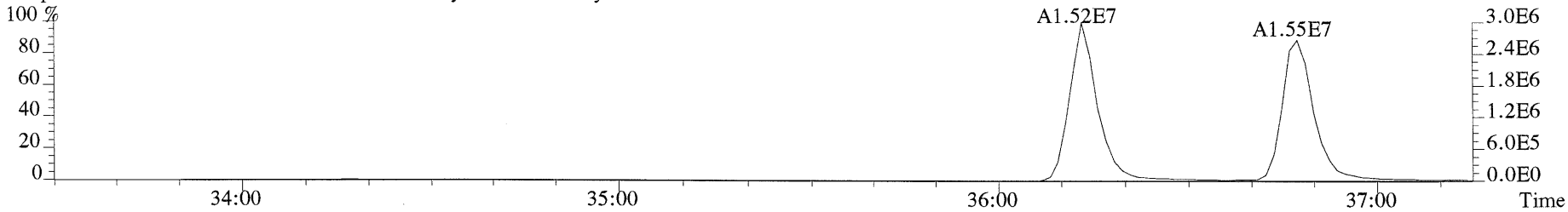
File:25JUL18Z #1-401 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



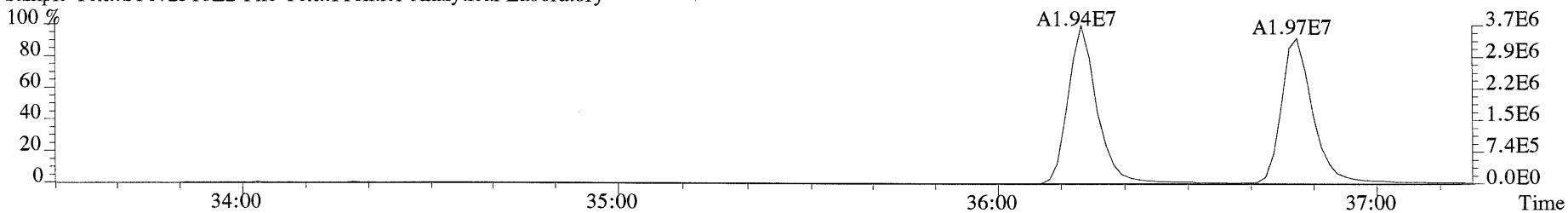
File:25JUL18Z #1-401 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



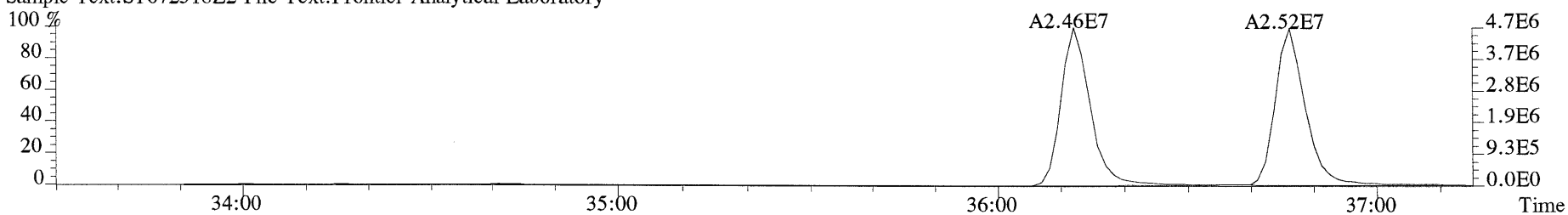
File:25JUL18Z #1-183 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



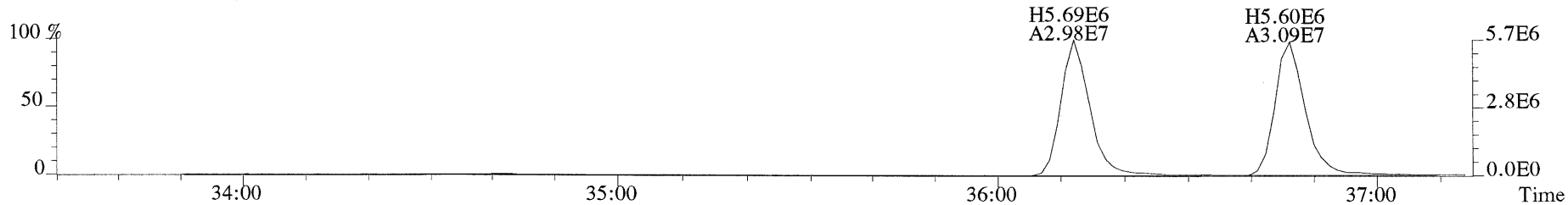
File:25JUL18Z #1-183 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



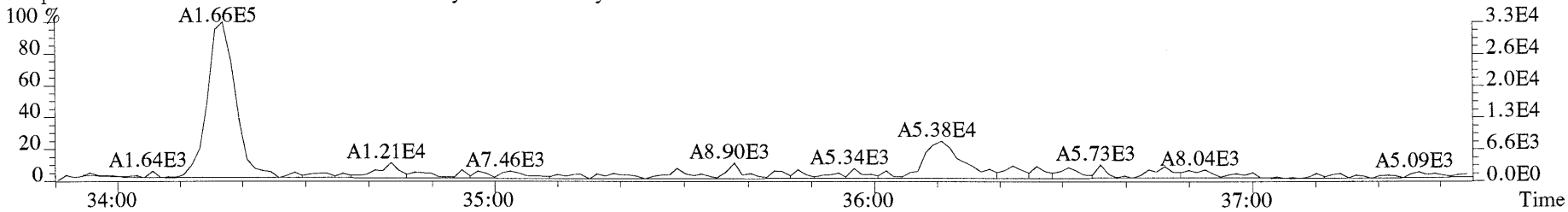
File:25JUL18Z #1-183 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



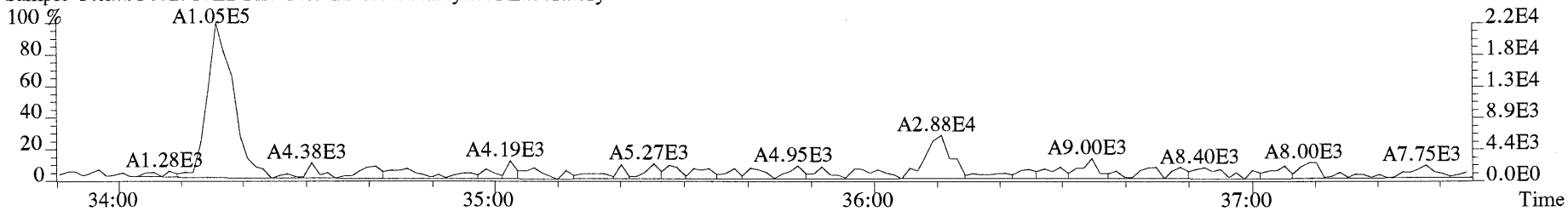
File:25JUL18Z #1-183 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



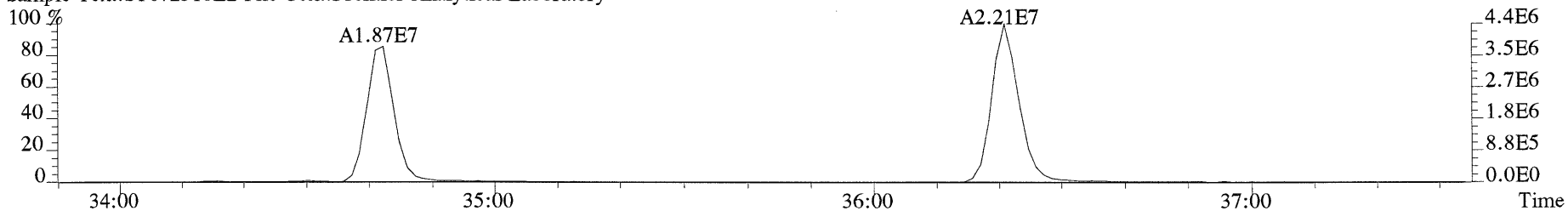
File:25JUL18Z #1-183 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



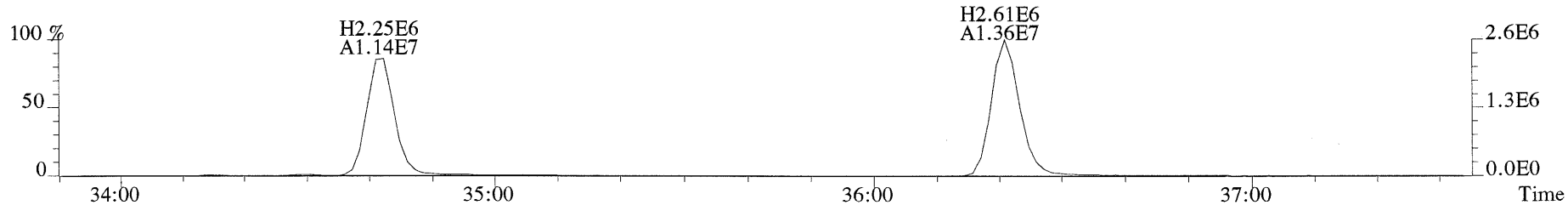
File:25JUL18Z #1-183 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



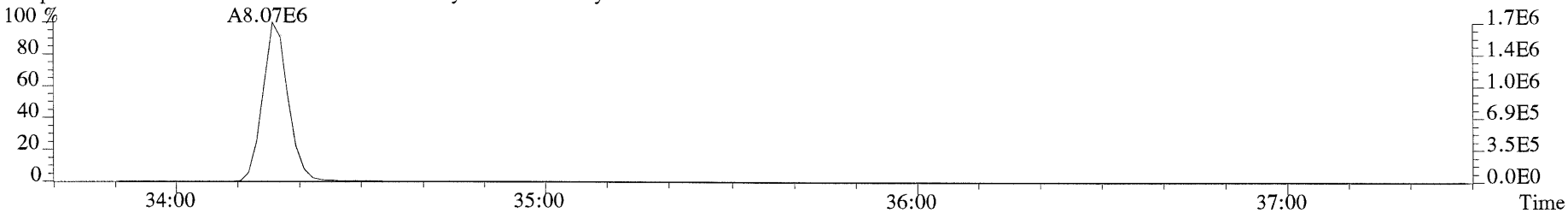
File:25JUL18Z #1-183 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



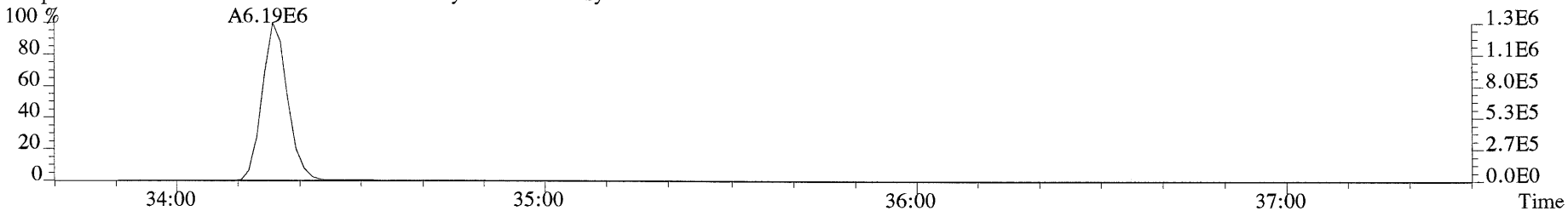
File:25JUL18Z #1-183 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



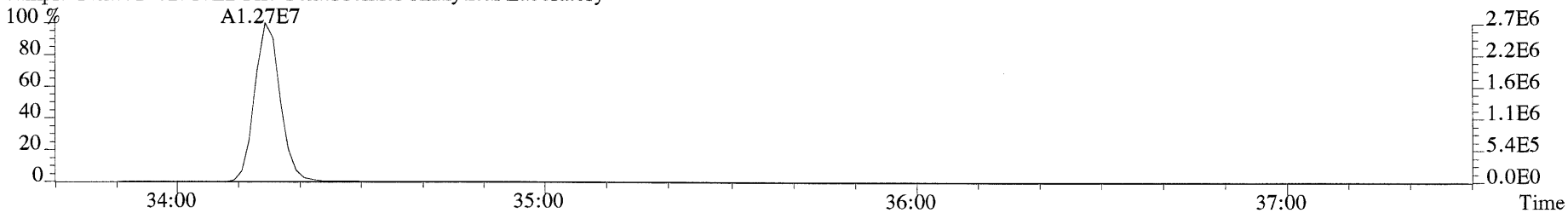
File:25JUL18Z #1-183 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



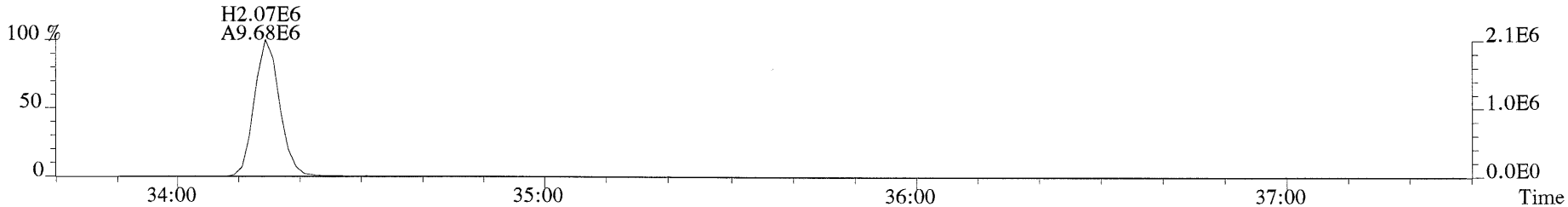
File:25JUL18Z #1-183 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



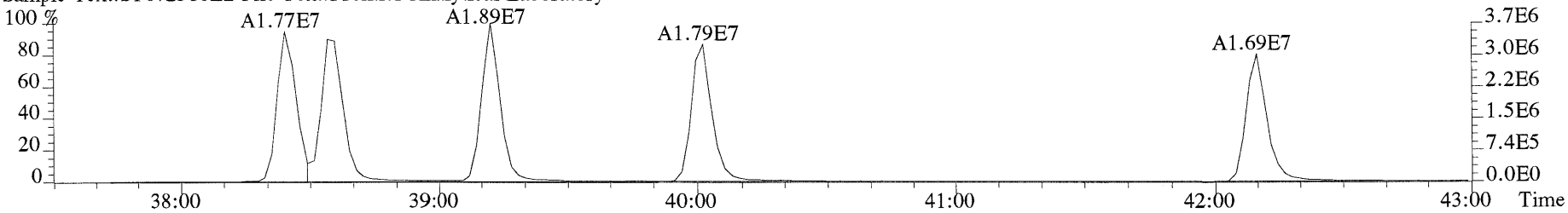
File:25JUL18Z #1-183 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



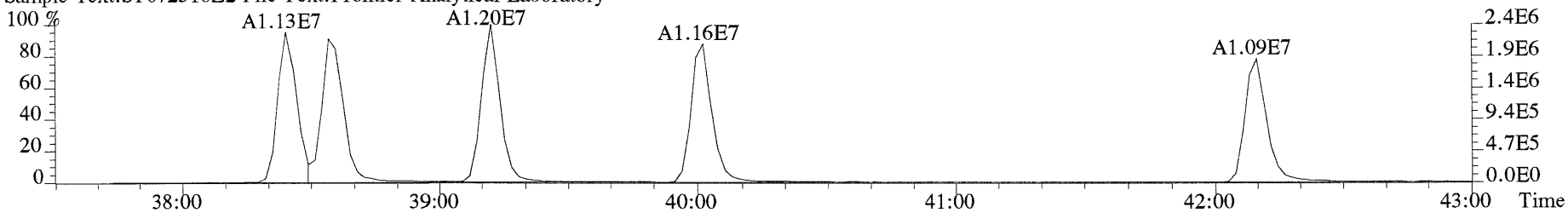
File:25JUL18Z #1-183 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



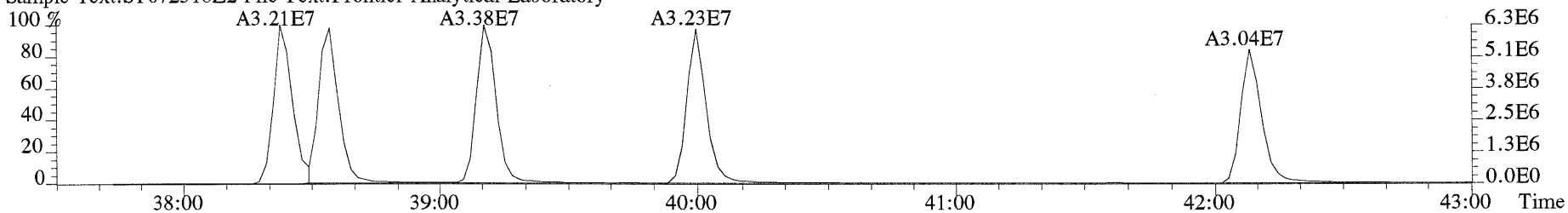
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



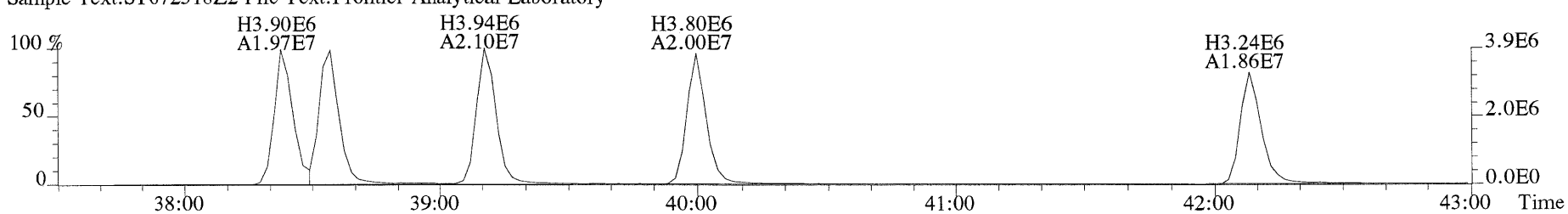
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



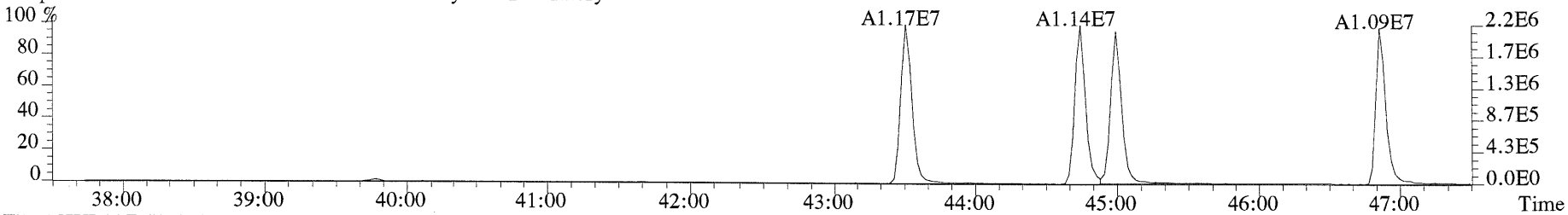
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



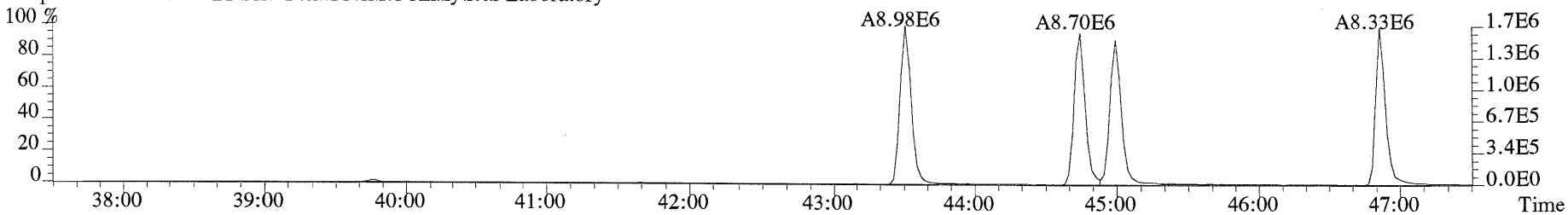
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



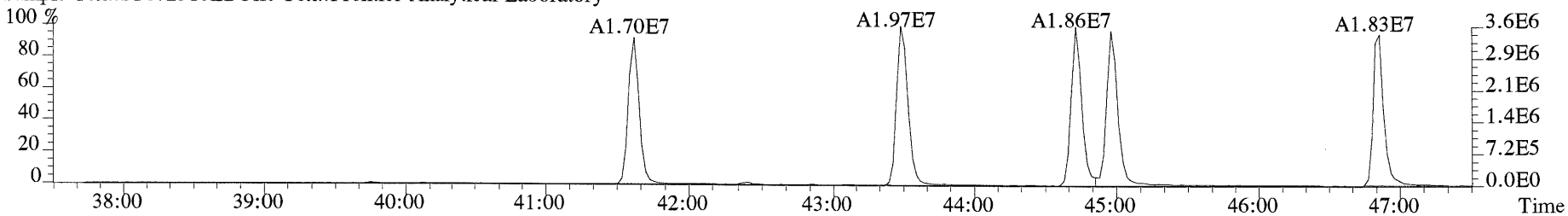
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



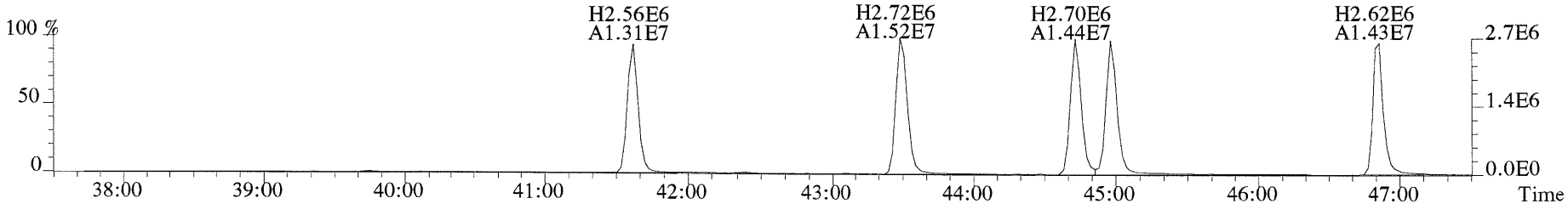
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



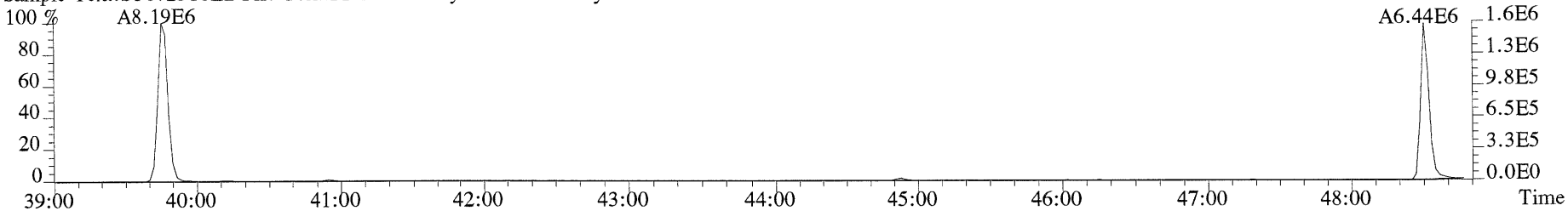
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



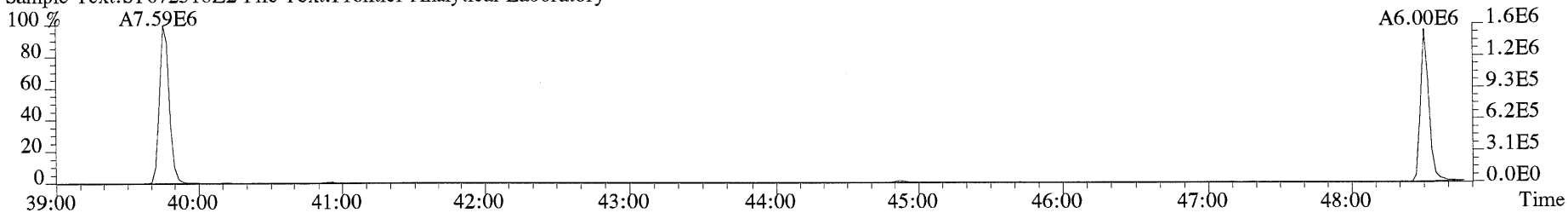
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



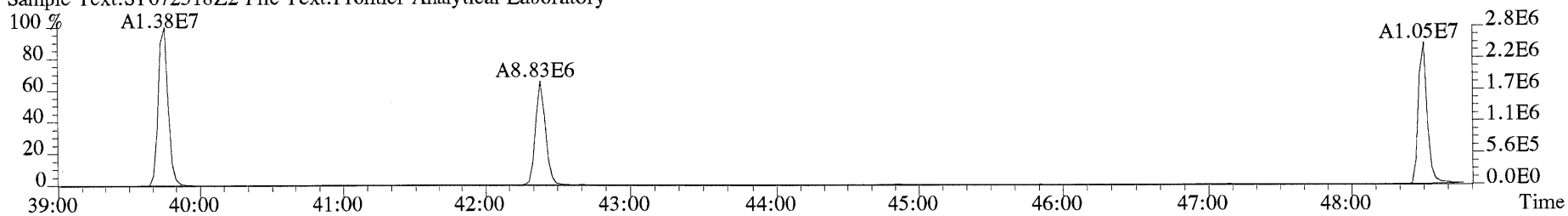
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



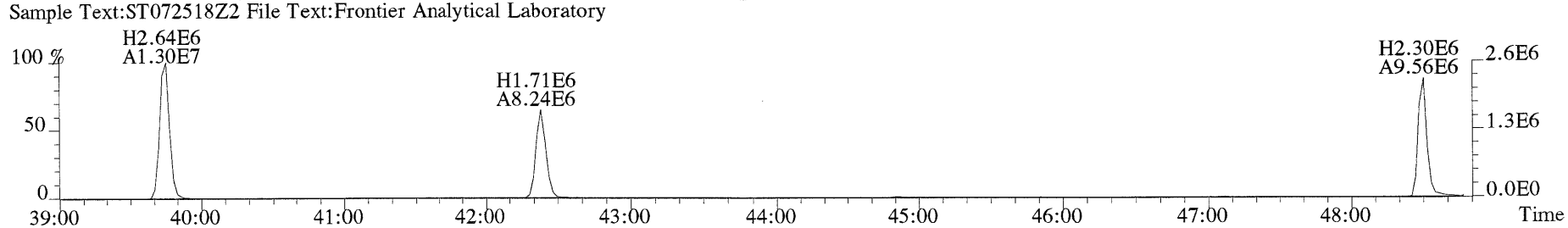
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



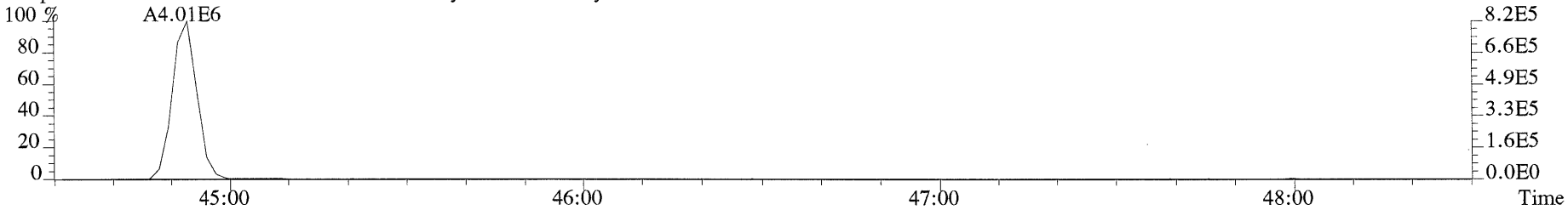
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



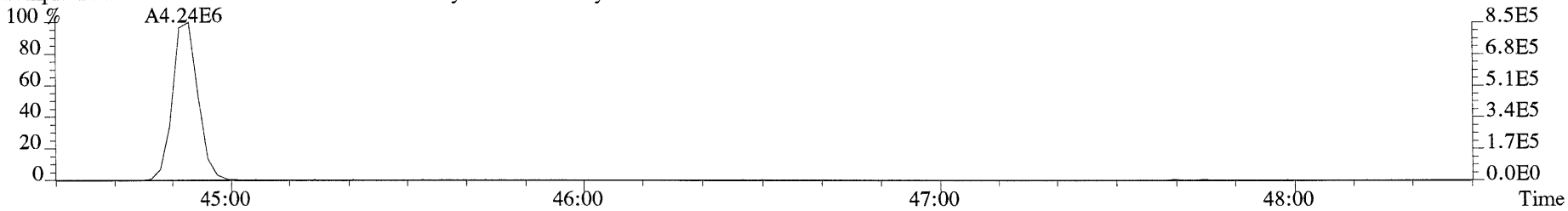
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



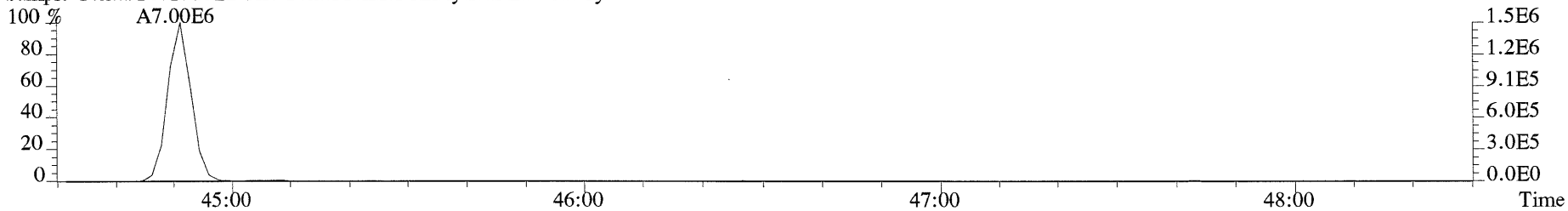
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



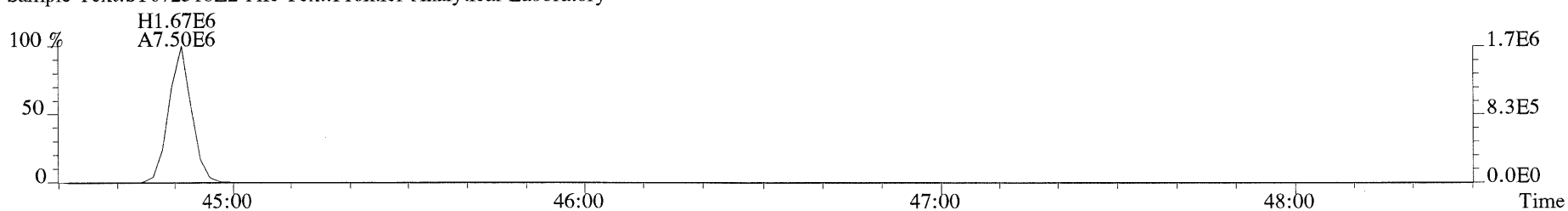
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



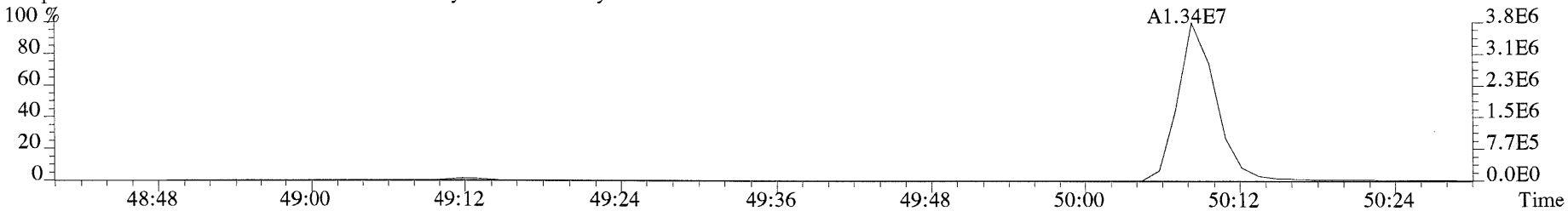
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



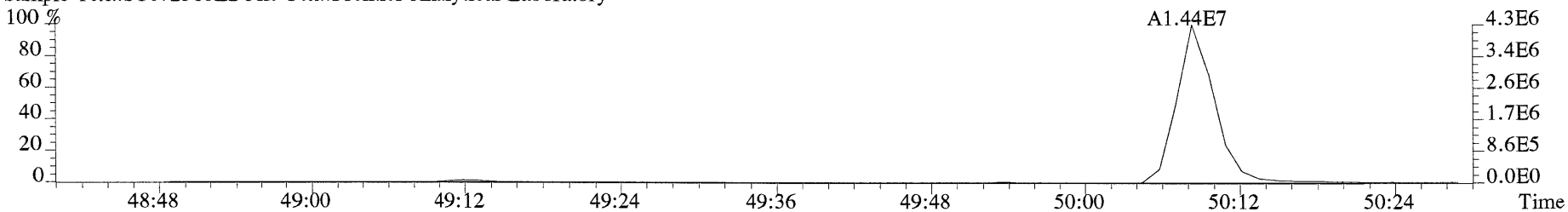
File:25JUL18Z #1-404 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



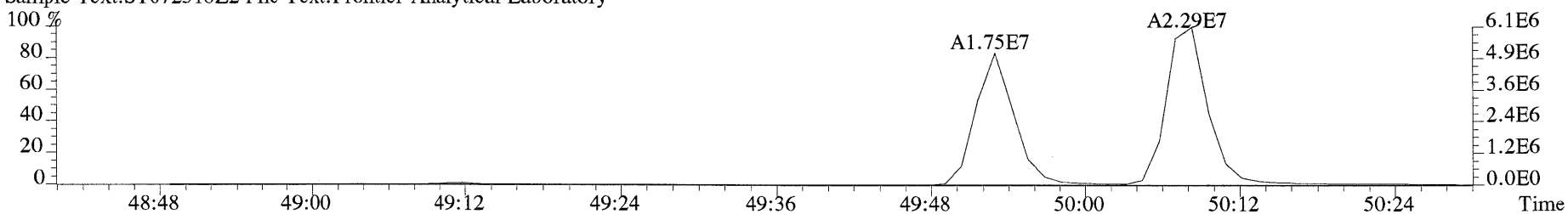
File:25JUL18Z #1-314 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



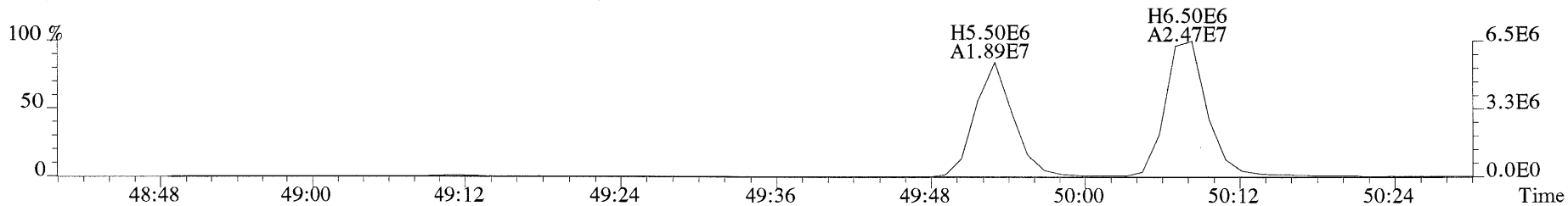
File:25JUL18Z #1-314 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



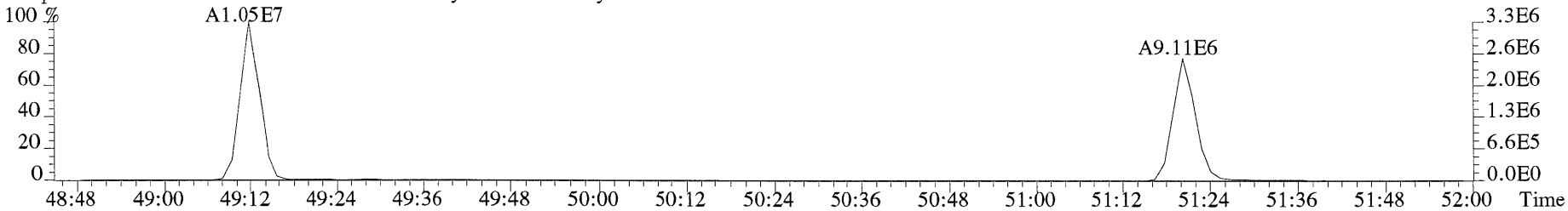
File:25JUL18Z #1-314 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



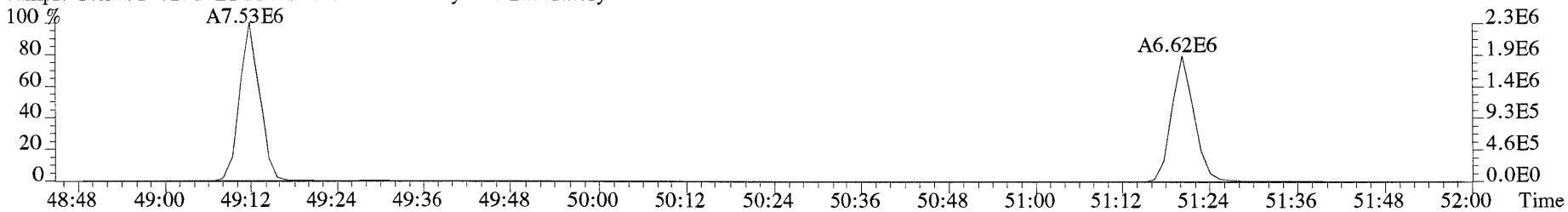
File:25JUL18Z #1-314 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



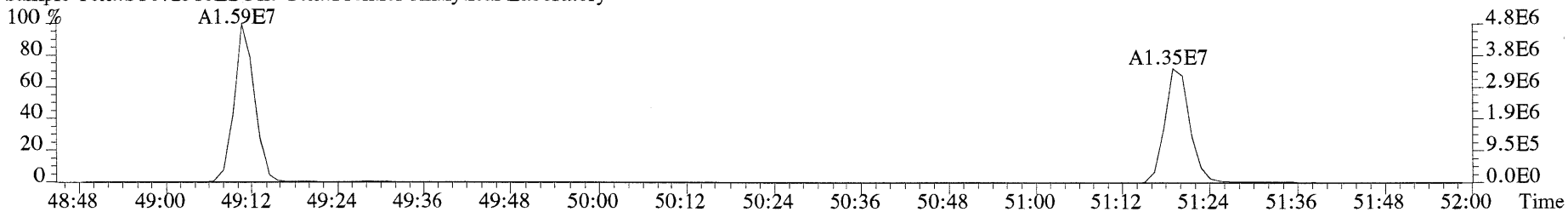
File:25JUL18Z #1-314 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



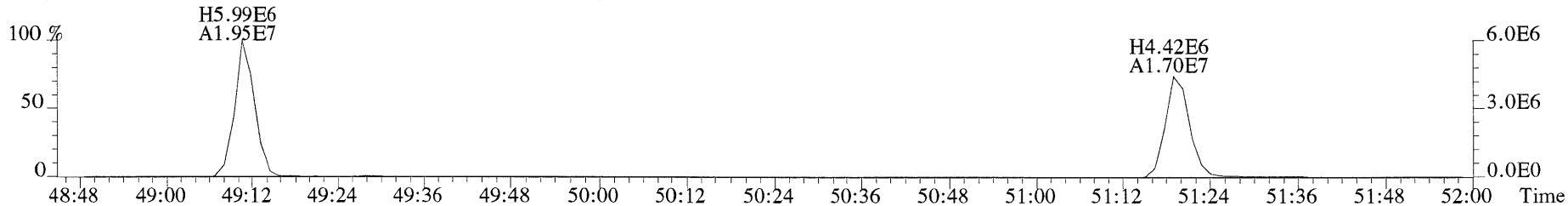
File:25JUL18Z #1-314 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



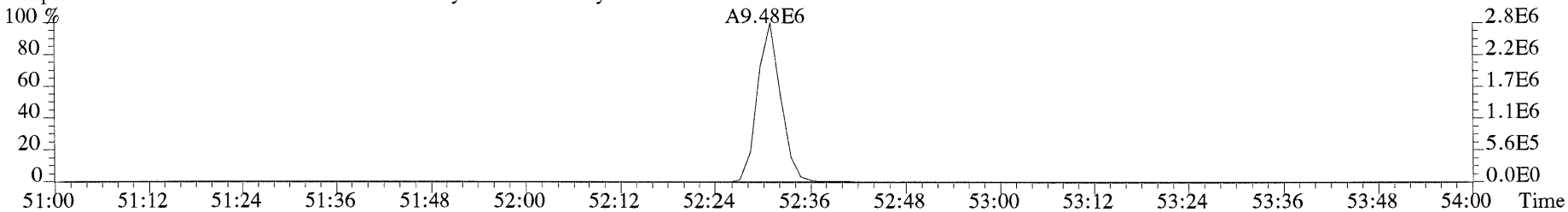
File:25JUL18Z #1-314 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



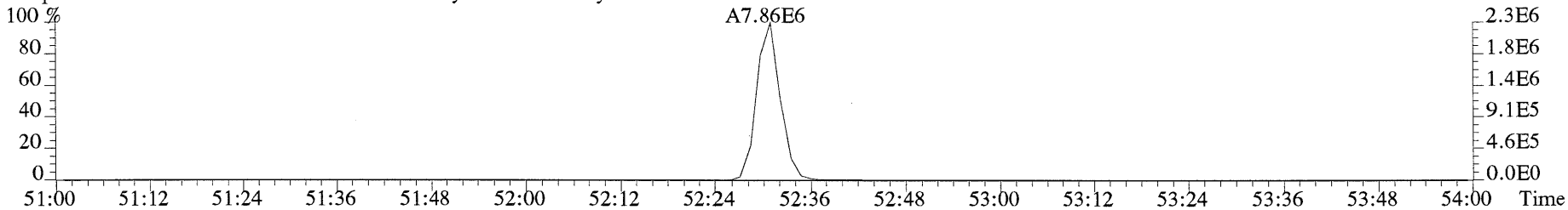
File:25JUL18Z #1-314 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



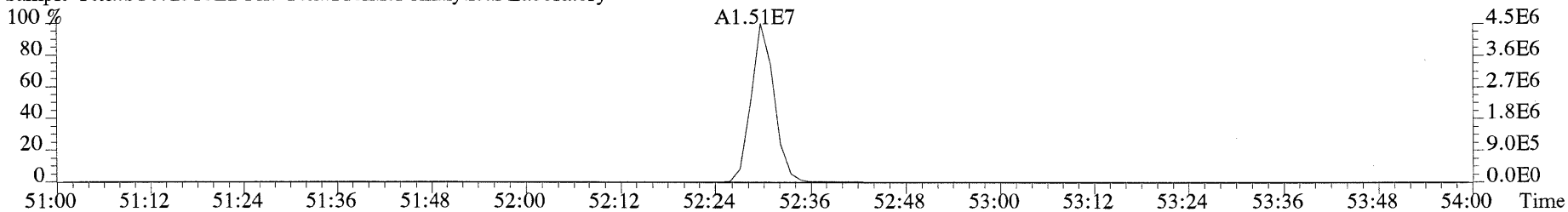
File:25JUL18Z #1-314 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



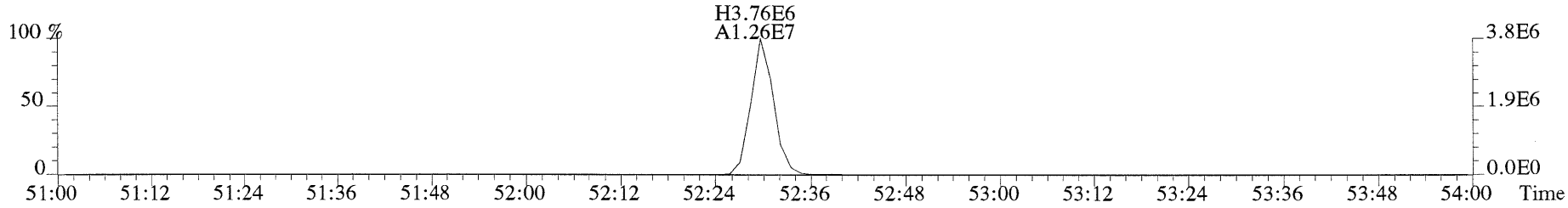
File:25JUL18Z #1-314 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory



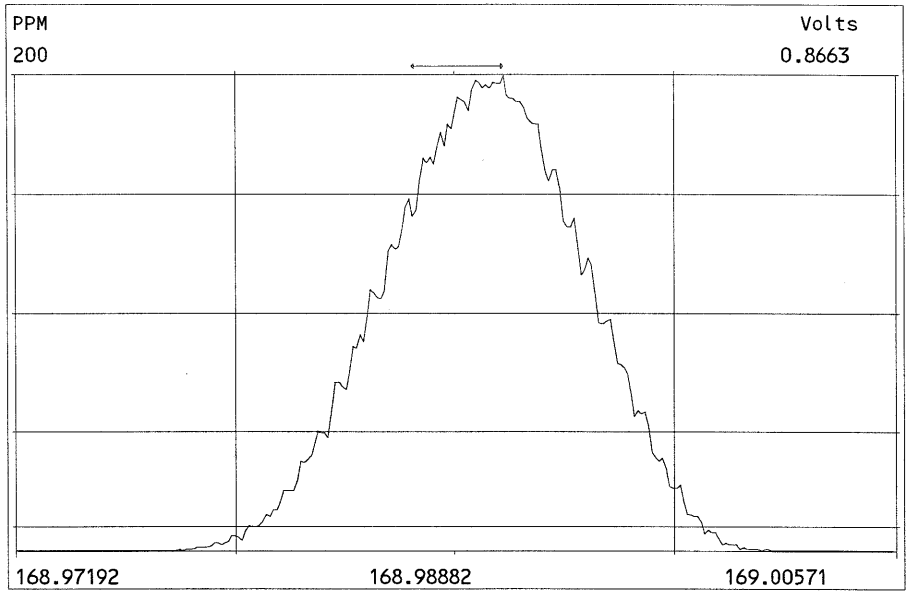
File:25JUL18Z #1-314 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory

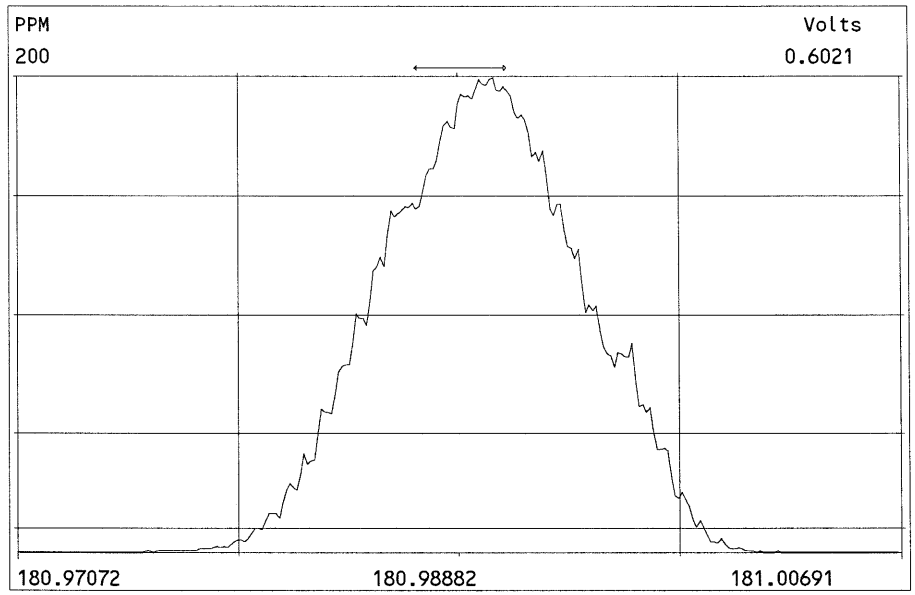


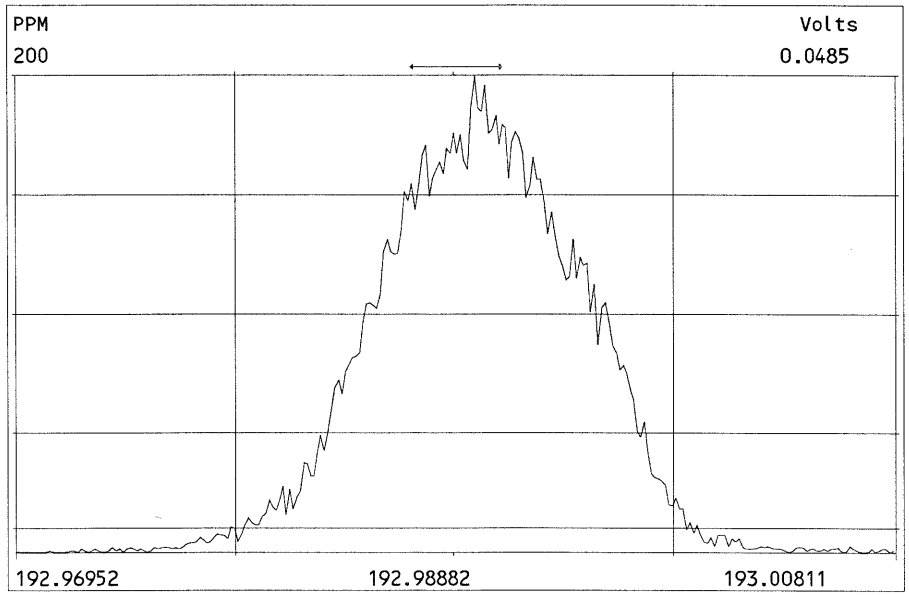
File:25JUL18Z #1-314 Acq:25-JUL-2018 22:01:08 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072518Z2 File Text:Frontier Analytical Laboratory

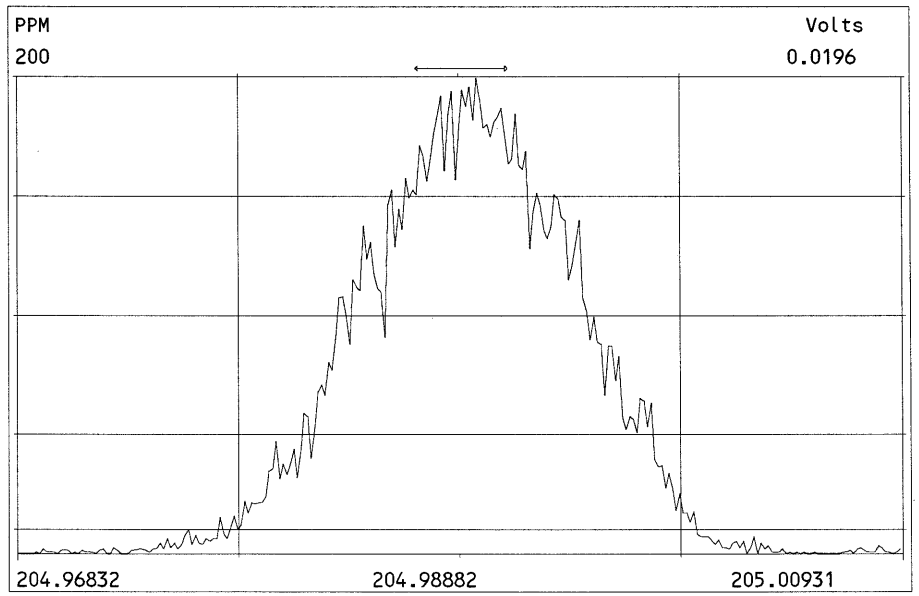


Peak Locate Examination:25-JUL-2018:23:28 File:25JUL18Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

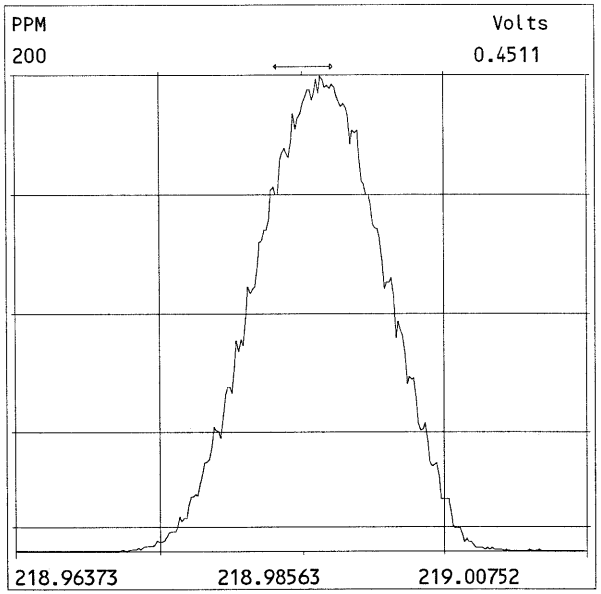


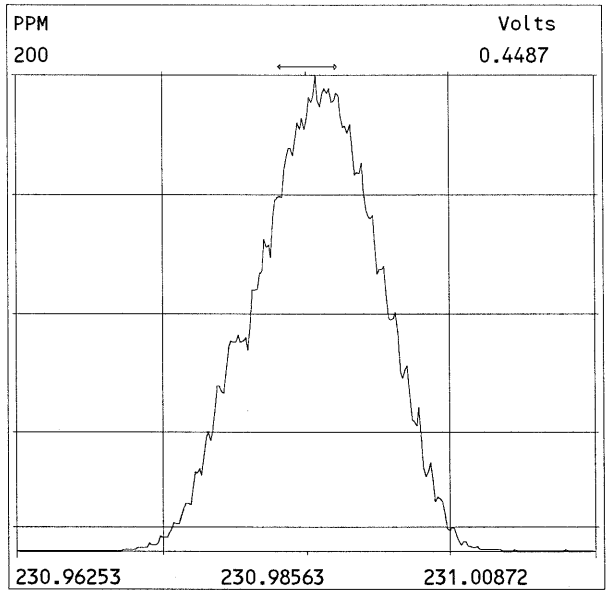


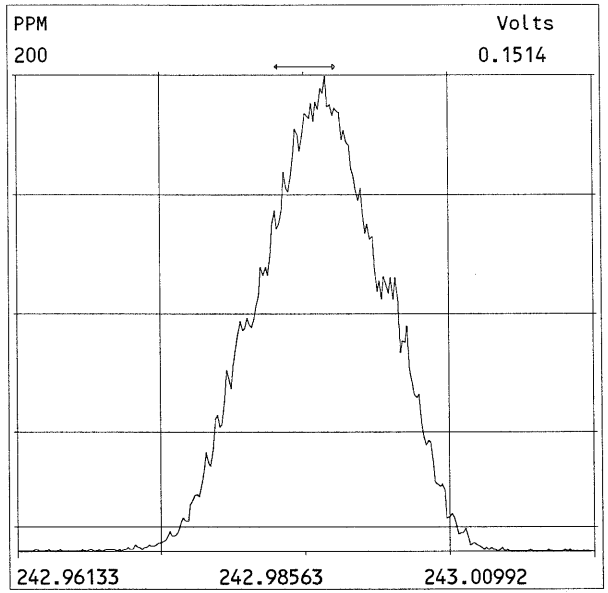


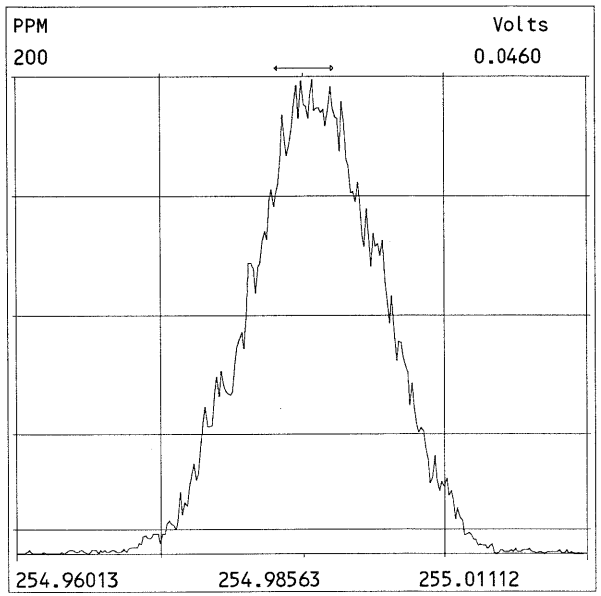


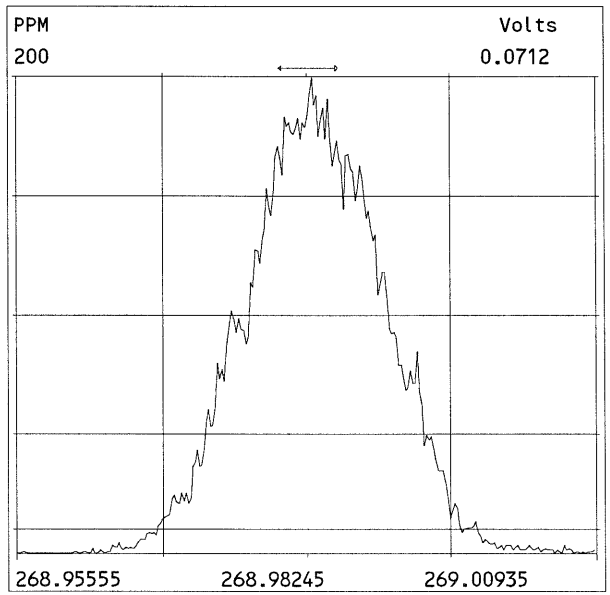
Peak Locate Examination:25-JUL-2018:23:30 File:25JUL18Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

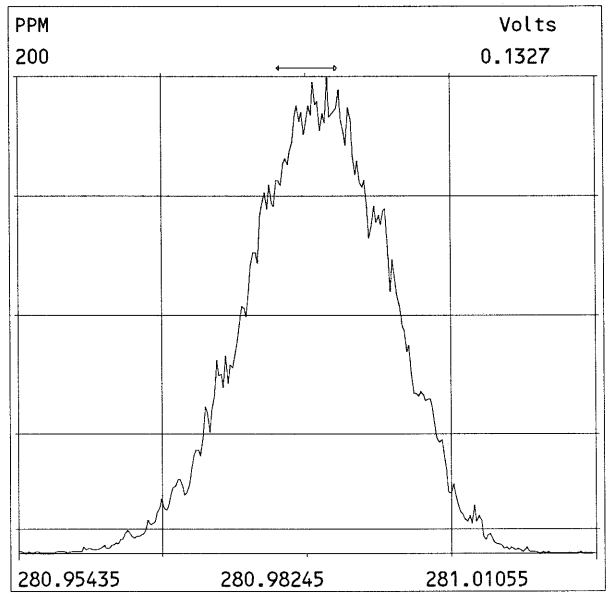




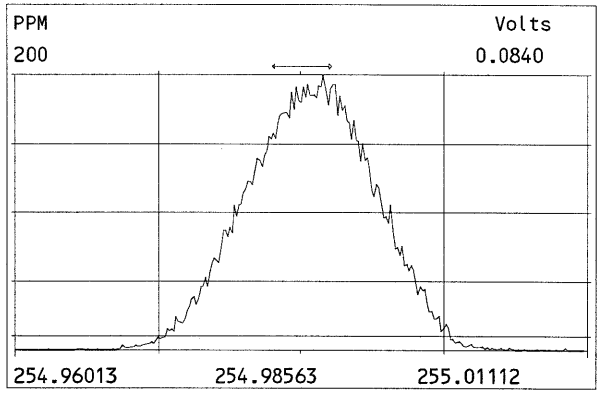


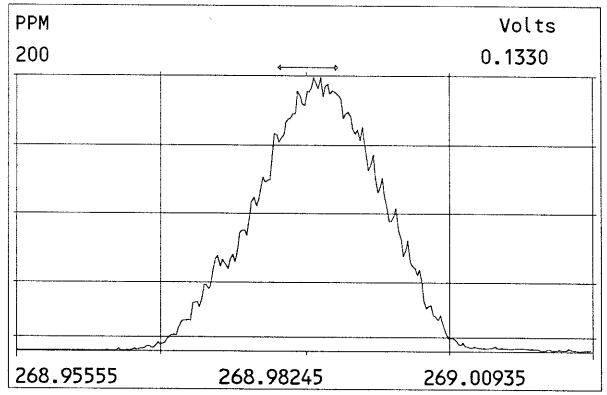


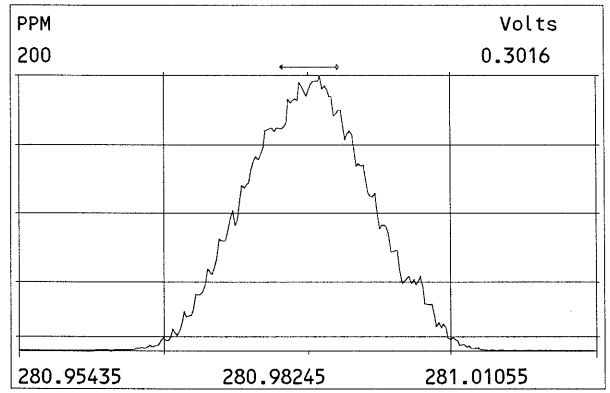


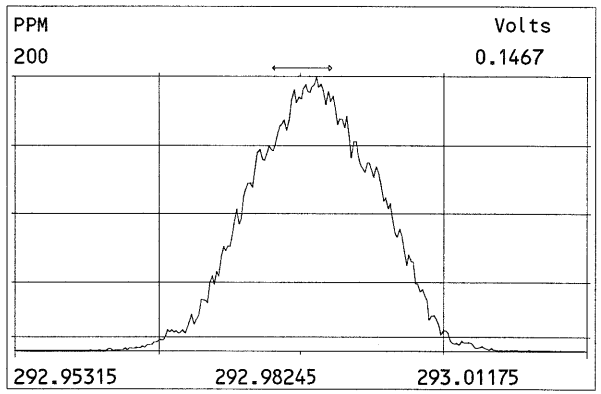


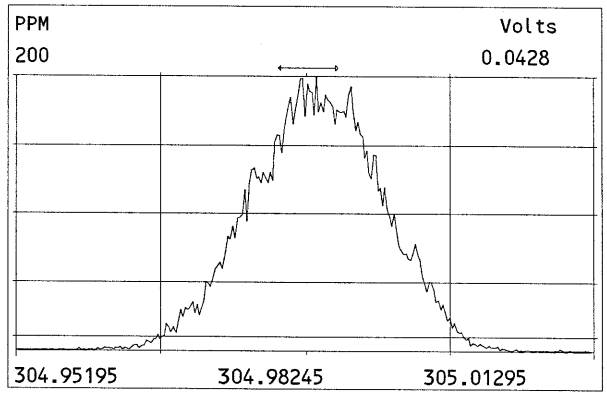
Peak Locate Examination:25-JUL-2018:23:33 File:25JUL18Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

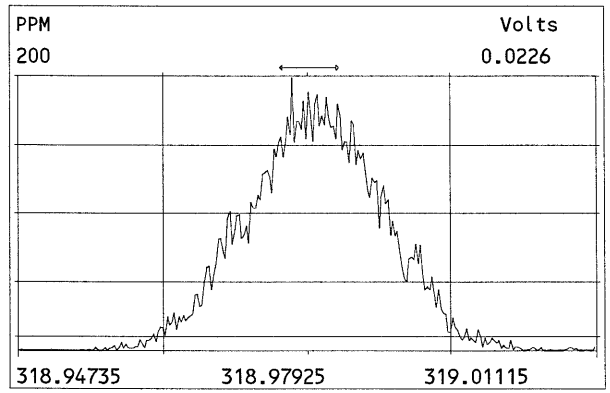


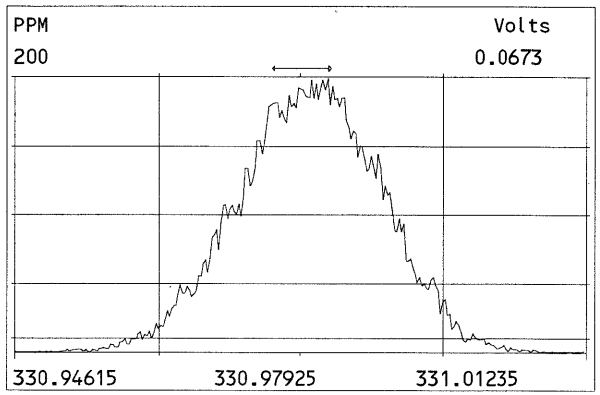


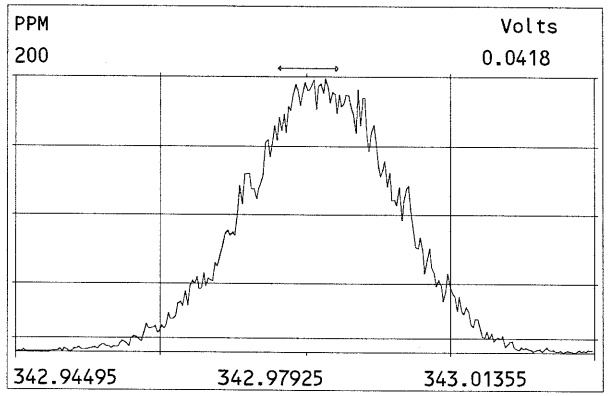




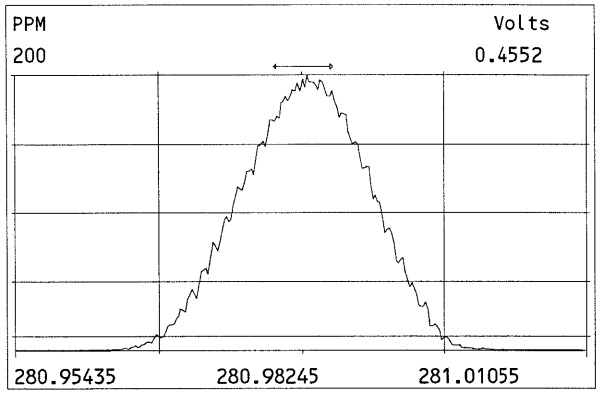


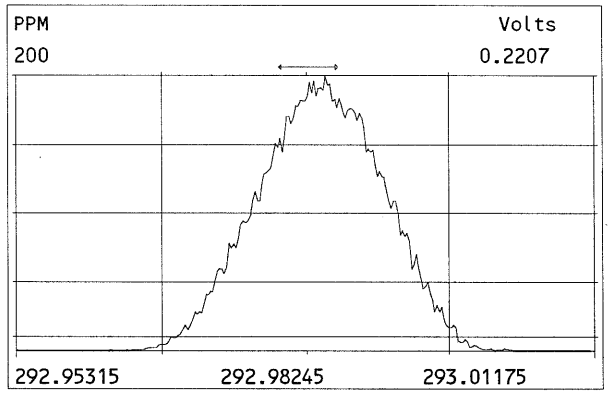


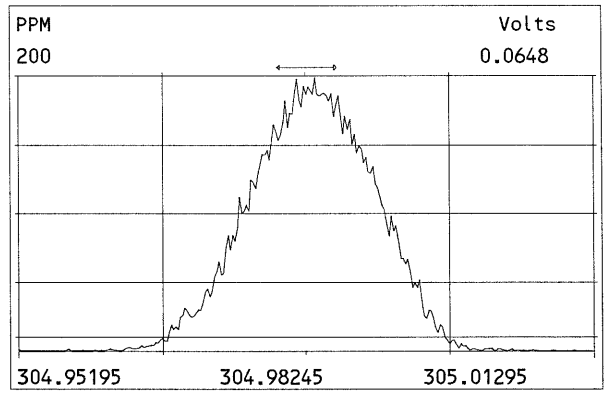


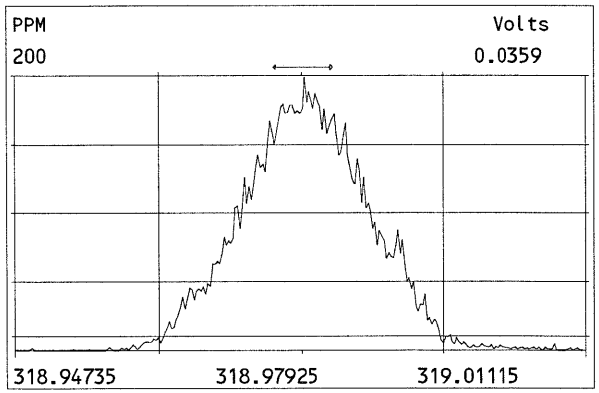


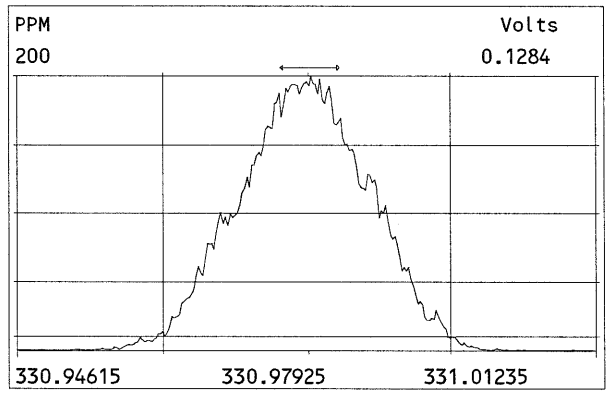
Peak Locate Examination:25-JUL-2018:23:35 File:25JUL18Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

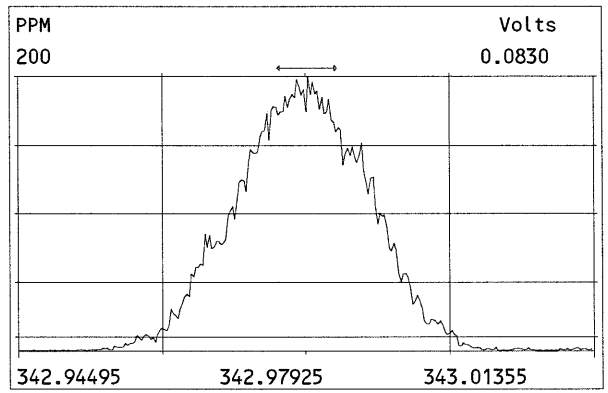


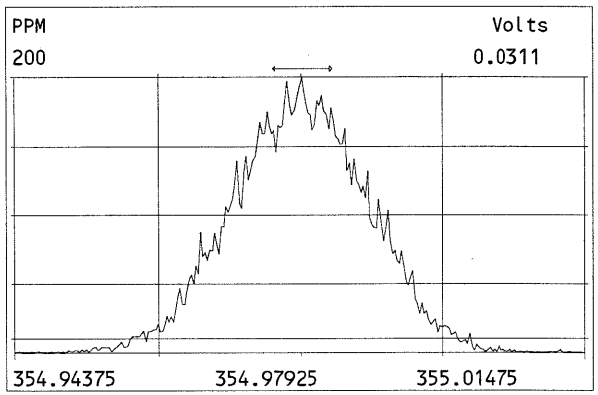


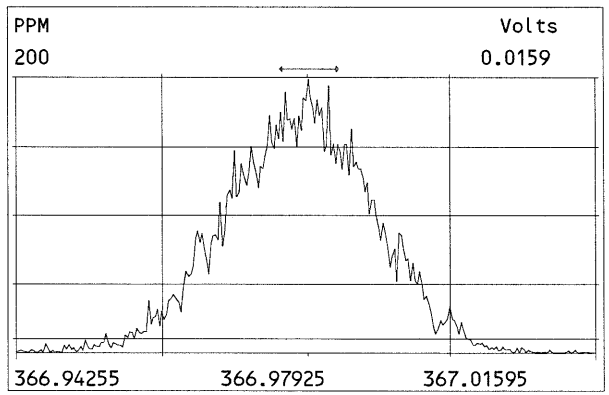


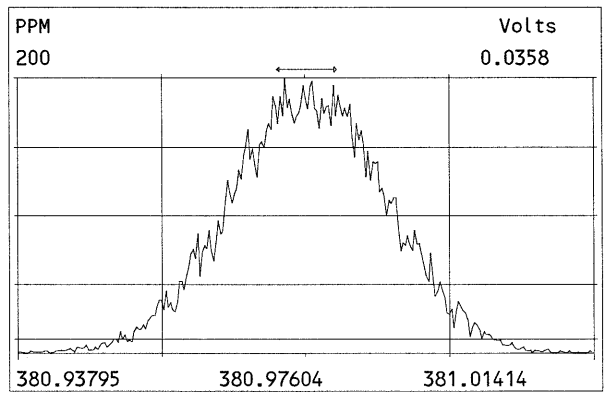




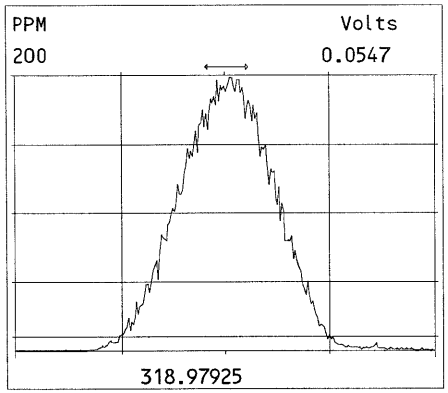


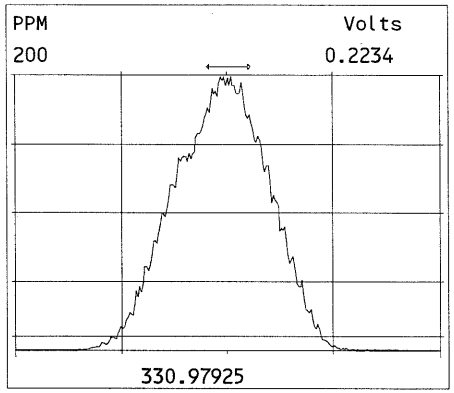


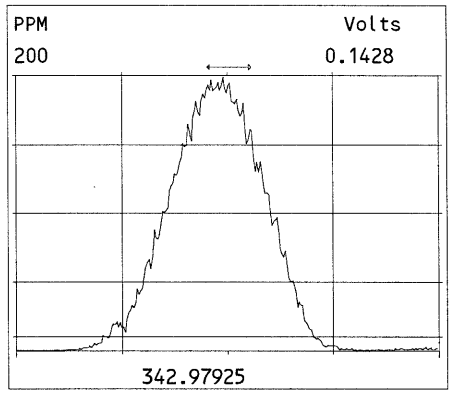


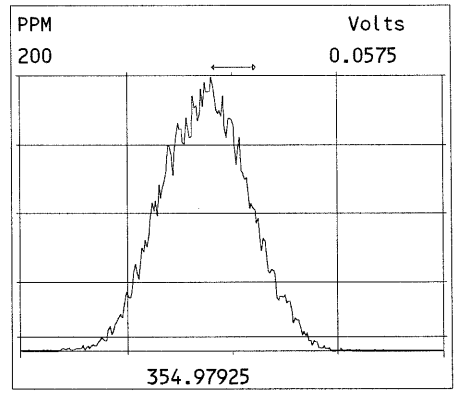


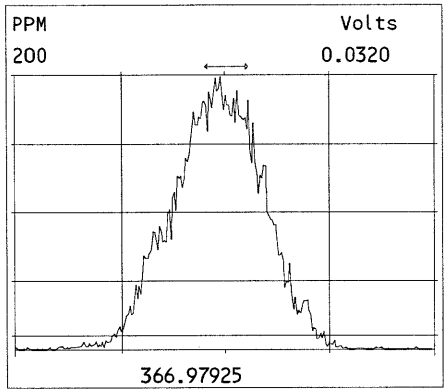
Peak Locate Examination:25-JUL-2018:23:38 File:25JUL18Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

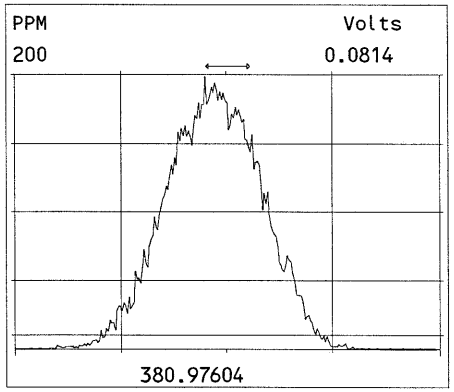


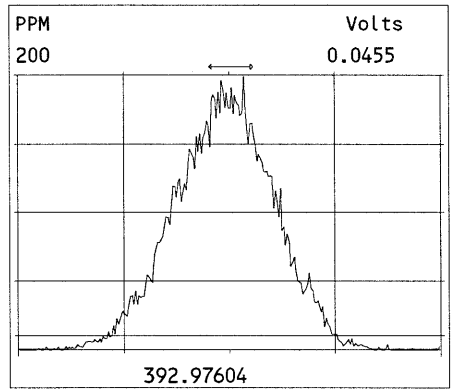


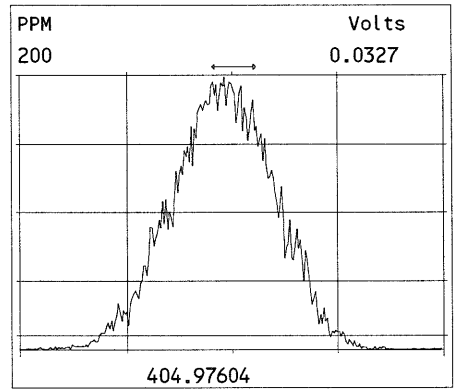


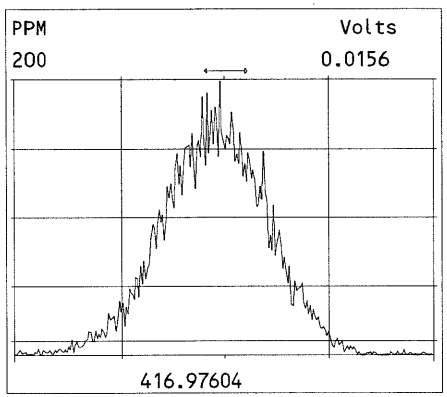


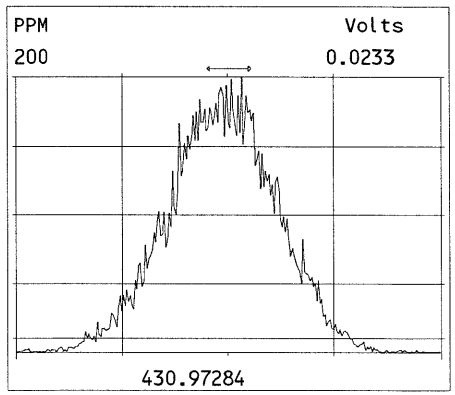


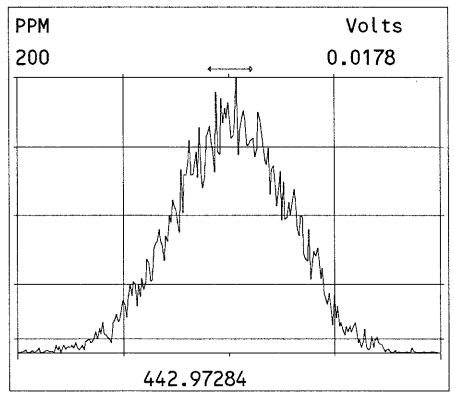
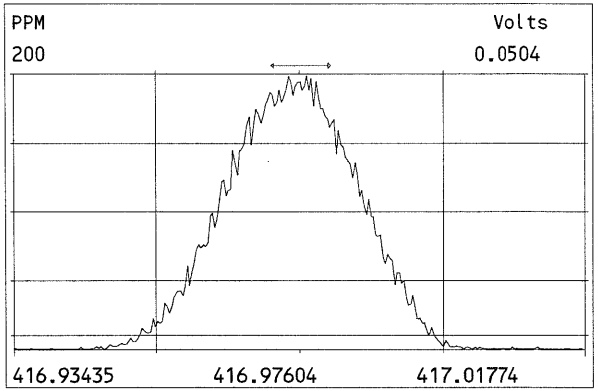
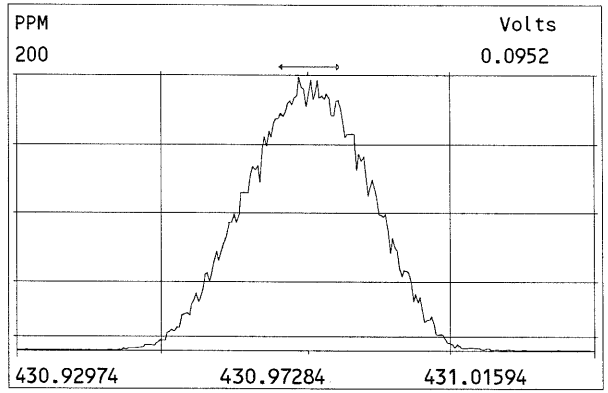
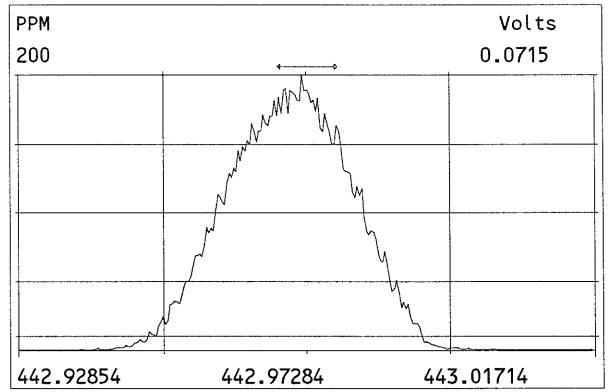
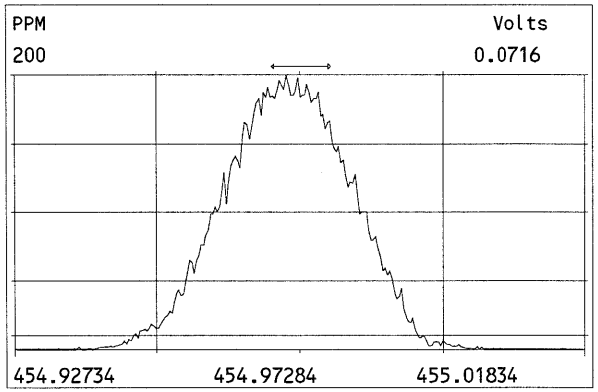
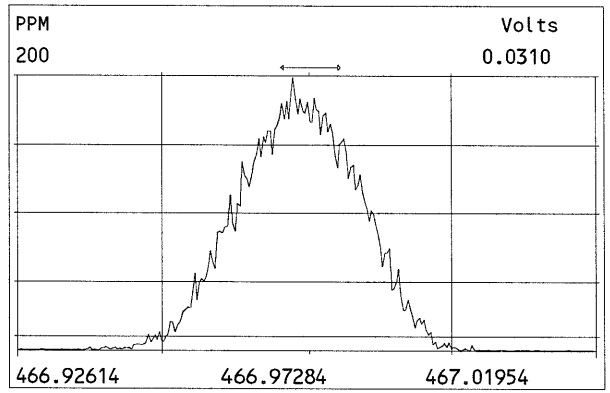
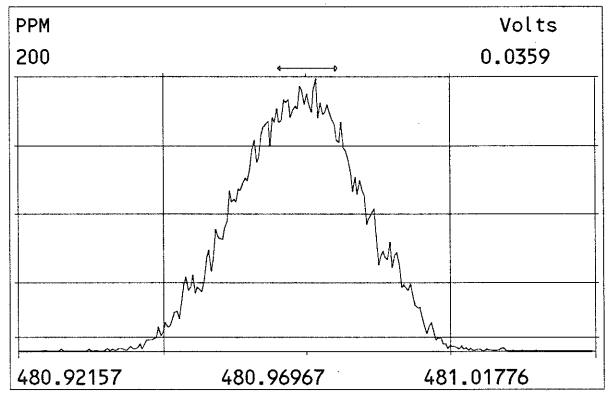
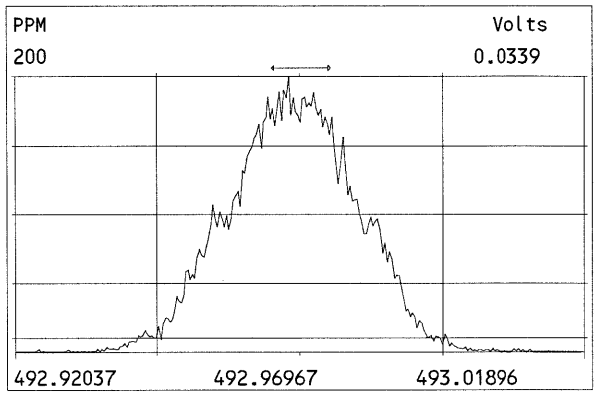
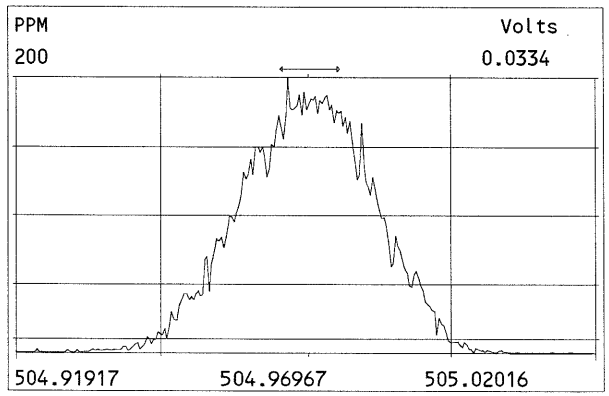
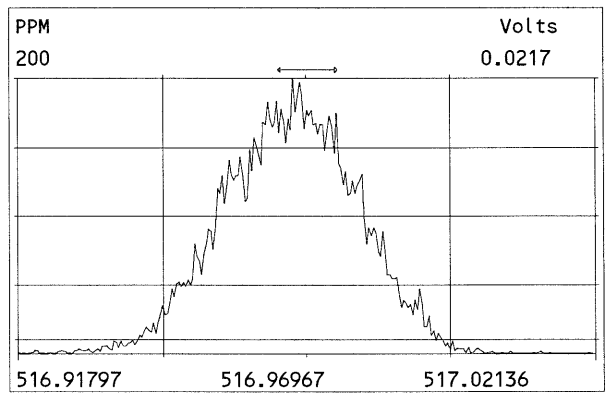












Peak Locate Examination:25-JUL-2018:23:40 File:25JUL18Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK