July 30, 2019

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

Dear Dr. Heavner,

The following results are associated with Frontier Analytical Laboratory (FAL) project **12532**. These results correspond to your **LDW ENR/AC Pilot Study project** and project number **LY15160310**. Twenty sediment samples were received on 7/10/2019 in good condition. All twenty 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 **12532**.

The following Level IV report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section and an Instrument Raw Data section. The Analytical Data section contains our sample tracking log and the analytical results. The Sample Receipt section contains your chain of custodies, our sample login form and a sample photo. 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 electronic data deliverable (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 **12532**, 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: **12532**

Received on: **07/10/2019** Project Due: **08/01/2019** Storage: **R-4**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
12532-001-SA	0	LY15160310	LDW-Y2-SU-ENR-CA-CORE	EPA 1668 PCB	Sediment	04/25/2019	12:03 pm	04/24/2020
12532-002-SA	0	LY15160310	LDW-Y2-SU-ENR-CB-CORE	EPA 1668 PCB	Sediment	04/25/2019	12:15 pm	04/24/2020
12532-003-SA	0	LY15160310	LDW-Y2-SU-ENR-CC-CORE	EPA 1668 PCB	Sediment	04/25/2019	12:27 pm	04/24/2020
12532-004-SA	0	LY15160310	LDW-Y2-SU-ENR+AC-CA-CORE	EPA 1668 PCB	Sediment	04/25/2019	10:55 am	04/24/2020
12532-005-SA	0	LY15160310	LDW-Y2-SU-ENR+AC-CB-CORE	EPA 1668 PCB	Sediment	04/25/2019	11:07 am	04/24/2020
12532-006-SA	0	LY15160310	LDW-Y2-SU-ENR+AC-CC-CORE	EPA 1668 PCB	Sediment	04/25/2019	11:17 am	04/24/2020
12532-007-SA	0	LY15160310	LDW-Y2-IN-ENR-CA-CORE	EPA 1668 PCB	Sediment	06/26/2019	11:15 am	06/25/2020
12532-008-SA	0	LY15160310	LDW-Y2-IN-ENR-CB-CORE	EPA 1668 PCB	Sediment	06/26/2019	11:25 am	06/25/2020
12532-009-SA	0	LY15160310	LDW-Y2-IN-ENR-CE-CORE	EPA 1668 PCB	Sediment	06/26/2019	11:55 am	06/25/2020
12532-010-SA	0	LY15160310	LDW-Y2-IN-ENR+AC-CA-CORE	EPA 1668 PCB	Sediment	06/26/2019	12:00 pm	06/25/2020
12532-011-SA	0	LY15160310	LDW-Y2-IN-ENR+AC-CB-CORE	EPA 1668 PCB	Sediment	07/02/2019	10:50 am	07/01/2020
12532-012-SA	0	LY15160310	LDW-Y2-IN-ENR+AC-CC-CORE	EPA 1668 PCB	Sediment	06/26/2019	12:10 pm	06/25/2020
12532-013-SA	0	LY15160310	LDW-Y2-SC-ENR-CC-CORE	EPA 1668 PCB	Sediment	07/02/2019	11:30 am	07/01/2020
12532-014-SA	0	LY15160310	LDW-Y2-SC-ENR-CD-CORE	EPA 1668 PCB	Sediment	07/02/2019	11:40 am	07/01/2020
12532-015-SA	0	LY15160310	LDW-Y2-SC-ENR-CE-CORE	EPA 1668 PCB	Sediment	07/02/2019	11:45 am	07/01/2020
12532-016-SA	0	LY15160310	LDW-Y2-SC-ENR+AC-CAD-CORE	EPA 1668 PCB	Sediment	07/02/2019	11:50 am	07/01/2020
12532-017-SA	0	LY15160310	LDW-Y2-SC-ENR+AC-CB-CORE	EPA 1668 PCB	Sediment	07/02/2019	11:55 am	07/01/2020
12532-018-SA	0	LY15160310	LDW-Y2-SC-ENR+AC-CC-CORE	EPA 1668 PCB	Sediment	07/02/2019	12:00 pm	07/01/2020
12532-019-SA	0	LY15160310	LDW-Y2-SC-ENR-SS	EPA 1668 PCB	Sediment	06/22/2019	05:43 pm	06/21/2020
12532-020-SA	0	LY15160310	LDW-Y2-SC-ENR+AC-SS	EPA 1668 PCB	Sediment	06/26/2019	12:19 pm	06/25/2020

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EPA Method 1668
PCBs

FAL ID: 12532-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: NA
Amount: 5.00 g

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019
Total Conc: 0.0

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	0.303			PCB-51	ND	0.642		
PCB-2	ND	0.305			PCB-52	ND	0.618	C	69
PCB-3	ND	0.315			PCB-53	ND	0.664		
PCB-4	ND	1.21			PCB-54	ND	0.516		
PCB-5	ND	0.822			PCB-55	ND	0.533		
PCB-6	ND	0.812			PCB-56	ND	0.368	C	60
PCB-7	ND	0.795			PCB-57	ND	0.536		
PCB-8	ND	0.800			PCB-58	ND	0.534		
PCB-9	ND	0.812			PCB-59	-	-	C042	42
PCB-10	ND	0.852			PCB-60	-	-	C056	56
PCB-11	ND	0.919			PCB-61	ND	0.591	C	70
PCB-12	ND	0.897			PCB-62	ND	0.561		
PCB-13	ND	0.895			PCB-63	ND	0.534		
PCB-14	ND	0.864			PCB-64	-	-	C041	41/71/72
PCB-15	ND	0.847			PCB-65	ND	0.541		
PCB-16	ND	0.334			PCB-66	ND	0.521	C	76
PCB-17	ND	0.382			PCB-67	ND	0.549		
PCB-18	ND	0.414			PCB-68	ND	0.491		
PCB-19	ND	0.427			PCB-69	-	-	C052	52
PCB-20	ND	0.470	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	0.422			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.435			PCB-73	ND	0.541		
PCB-24	ND	0.281			PCB-74	ND	0.536		
PCB-25	ND	0.473			PCB-75	-	-	C048	48
PCB-26	ND	0.455			PCB-76	-	-	C066	66
PCB-27	ND	0.281			PCB-77	ND	0.399		
PCB-28	ND	0.373			PCB-78	ND	0.350		
PCB-29	ND	0.435			PCB-79	ND	0.337		
PCB-30	ND	0.272			PCB-80	ND	0.466		
PCB-31	ND	0.482			PCB-81	ND	0.346		
PCB-32	ND	0.334			PCB-82	ND	0.929		
PCB-33	-	-	C020	20/21	PCB-83	ND	0.659	C	112
PCB-34	ND	0.497			PCB-84	ND	0.714	C	92
PCB-35	ND	0.518			PCB-85	ND	0.618	C	116
PCB-36	ND	0.456			PCB-86	ND	0.729		
PCB-37	ND	0.496			PCB-87	ND	0.605	C	117/125
PCB-38	ND	0.455			PCB-88	ND	0.398	C	91
PCB-39	ND	0.467			PCB-89	ND	0.764		
PCB-40	ND	0.921			PCB-90	ND	0.661	C	101
PCB-41	ND	0.569	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	0.644	C	59	PCB-92	-	-	C084	84
PCB-43	ND	0.716	C	49	PCB-93	ND	0.462		
PCB-44	ND	0.837			PCB-94	ND	0.465		
PCB-45	ND	0.781			PCB-95	ND	0.457		
PCB-46	ND	0.804			PCB-96	ND	0.316		
PCB-47	ND	0.709			PCB-97	ND	0.808		
PCB-48	ND	0.548	C	75	PCB-98	ND	0.428	C	102
PCB-49	-	-	C043	43	PCB-99	ND	0.632		
PCB-50	ND	0.657			PCB-100	ND	0.389		

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EPA Method 1668
PCBs

FAL ID: 12532-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: NA
Amount: 5.00 g

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	0.345		
PCB-102	-	-	C098	98	PCB-152	ND	0.232		
PCB-103	ND	0.388			PCB-153	ND	0.298		
PCB-104	ND	0.299			PCB-154	ND	0.277		
PCB-105	ND	0.610			PCB-155	ND	0.204		
PCB-106	ND	0.611	C	118	PCB-156	ND	0.312		
PCB-107	ND	0.635	C	108	PCB-157	ND	0.333		
PCB-108	-	-	C107	107	PCB-158	ND	0.285	C	160
PCB-109	ND	0.556			PCB-159	ND	0.278		
PCB-110	ND	0.540			PCB-160	-	-	C158	158
PCB-111	ND	0.538	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.554			PCB-163	-	-	C138	138/164
PCB-114	ND	0.719			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	0.296		
PCB-117	-	-	C087	87/125	PCB-167	ND	0.298		
PCB-118	-	-	C	106	PCB-168	ND	0.280		
PCB-119	ND	0.516			PCB-169	ND	0.350		
PCB-120	ND	0.500			PCB-170	ND	0.713		
PCB-121	ND	0.353			PCB-171	ND	0.623		
PCB-122	ND	0.649			PCB-172	ND	0.673		
PCB-123	ND	0.754			PCB-173	ND	0.693		
PCB-124	ND	0.609			PCB-174	ND	0.585		
PCB-125	-	-	C087	87/117	PCB-175	ND	0.564		
PCB-126	ND	0.748			PCB-176	ND	0.397		
PCB-127	ND	0.710			PCB-177	ND	0.663		
PCB-128	ND	0.352	C	162	PCB-178	ND	0.575		
PCB-129	ND	0.445			PCB-179	ND	0.384		
PCB-130	ND	0.426			PCB-180	ND	0.661		
PCB-131	ND	0.404	C	133	PCB-181	ND	0.649		
PCB-132	ND	0.330	C	161	PCB-182	ND	0.519	C	187
PCB-133	-	-	C131	131	PCB-183	ND	0.538		
PCB-134	ND	0.396	C	143	PCB-184	ND	0.362		
PCB-135	ND	0.374			PCB-185	ND	0.605		
PCB-136	ND	0.257			PCB-186	ND	0.396		
PCB-137	ND	0.404			PCB-187	-	-	C182	182
PCB-138	ND	0.304	C	163/164	PCB-188	ND	0.443		
PCB-139	ND	0.322	C	149	PCB-189	ND	0.367		
PCB-140	ND	0.327			PCB-190	ND	0.506		
PCB-141	ND	0.372			PCB-191	ND	0.513		
PCB-142	ND	0.384			PCB-192	ND	0.509		
PCB-143	-	-	C134	134	PCB-193	ND	0.477		
PCB-144	ND	0.303			PCB-194	ND	0.512		
PCB-145	ND	0.230			PCB-195	ND	0.637		
PCB-146	ND	0.302	C	165	PCB-196	ND	0.467	C	203
PCB-147	ND	0.330			PCB-197	ND	0.354		
PCB-148	ND	0.288			PCB-198	ND	0.552		
PCB-149	-	-	C139	139	PCB-199	ND	0.556		
PCB-150	ND	0.225			PCB-200	ND	0.372		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: NA
Amount: 5.00 g

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	0.356		
PCB-202	ND	0.378		
PCB-203	-	-	C196	196
PCB-204	ND	0.367		
PCB-205	ND	0.405		
PCB-206	ND	0.320		
PCB-207	ND	0.262		
PCB-208	ND	0.273		
PCB-209	ND	0.274		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	94.2	5.00 - 145	
13C-PCB-3	96.6	5.00 - 145	
13C-PCB-4	93.7	5.00 - 145	
13C-PCB-15	104	5.00 - 145	
13C-PCB-19	101	5.00 - 145	
13C-PCB-37	93.3	5.00 - 145	
13C-PCB-54	90.2	5.00 - 145	
13C-PCB-77	102	10.0 - 145	
13C-PCB-81	101	10.0 - 145	
13C-PCB-104	98.8	10.0 - 145	
13C-PCB-105	112	10.0 - 145	
13C-PCB-114	104	10.0 - 145	
13C-PCB-118	109	10.0 - 145	
13C-PCB-123	107	10.0 - 145	
13C-PCB-126	107	10.0 - 145	
13C-PCB-155	101	10.0 - 145	
13C-PCB-156	112	10.0 - 145	
13C-PCB-157	115	10.0 - 145	
13C-PCB-167	114	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	109	10.0 - 145	
13C-PCB-189	110	10.0 - 145	
13C-PCB-202	115	10.0 - 145	
13C-PCB-205	101	10.0 - 145	
13C-PCB-206	102	10.0 - 145	
13C-PCB-208	109	10.0 - 145	
13C-PCB-209	110	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	106	5.00 - 145	
13C-PCB-111	92.5	10.0 - 145	
13C-PCB-178	107	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-001-OPR
Client ID: OPR
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: NA
Amount: 5.00 g

ICal: DAILYFAL4-7-14-19
GC Column: DB1MS
Units: ng/ml

Acquired: 07-24-2019

Compound	% Recovery	QC Limits	Qual
PCB-1	94.8	60.0 - 135	
PCB-3	95.6	60.0 - 135	
PCB-4	89.2	60.0 - 135	
PCB-15	85.2	60.0 - 135	
PCB-19	93.6	60.0 - 135	
PCB-37	88.2	60.0 - 135	
PCB-54	90.2	60.0 - 135	
PCB-77	94.6	60.0 - 135	
PCB-81	85.0	60.0 - 135	
PCB-104	95.0	60.0 - 135	
PCB-105	85.0	60.0 - 135	
PCB-114	91.0	60.0 - 135	
PCB-118	93.2	60.0 - 135	
PCB-123	102	60.0 - 135	
PCB-126	88.8	60.0 - 135	
PCB-155	93.4	60.0 - 135	
PCB-156	86.0	60.0 - 135	
PCB-157	87.6	60.0 - 135	
PCB-167	91.4	60.0 - 135	
PCB-169	98.4	60.0 - 135	
PCB-188	96.0	60.0 - 135	
PCB-189	93.4	60.0 - 135	
PCB-202	101	60.0 - 135	
PCB-205	94.6	60.0 - 135	
PCB-206	96.0	60.0 - 135	
PCB-208	94.2	60.0 - 135	
PCB-209	90.4	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	89.8	15.0 - 145	
13C-PCB-3	90.6	15.0 - 145	
13C-PCB-4	91.3	15.0 - 145	
13C-PCB-15	98.9	15.0 - 145	
13C-PCB-19	95.2	15.0 - 145	
13C-PCB-37	93.3	15.0 - 145	
13C-PCB-54	87.6	15.0 - 145	
13C-PCB-77	92.5	40.0 - 145	
13C-PCB-81	90.9	40.0 - 145	
13C-PCB-104	92.9	40.0 - 145	
13C-PCB-105	107	40.0 - 145	
13C-PCB-114	103	40.0 - 145	
13C-PCB-118	102	40.0 - 145	
13C-PCB-123	99.9	40.0 - 145	
13C-PCB-126	102	40.0 - 145	
13C-PCB-155	93.1	40.0 - 145	
13C-PCB-156	107	40.0 - 145	
13C-PCB-157	107	40.0 - 145	
13C-PCB-167	107	40.0 - 145	
13C-PCB-169	100	40.0 - 145	
13C-PCB-188	101	40.0 - 145	
13C-PCB-189	98.2	40.0 - 145	
13C-PCB-202	105	40.0 - 145	
13C-PCB-205	99.4	40.0 - 145	
13C-PCB-206	102	40.0 - 145	
13C-PCB-208	111	40.0 - 145	
13C-PCB-209	108	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	102	15.0 - 145	
13C-PCB-111	86.1	40.0 - 145	
13C-PCB-178	104	40.0 - 145	

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019
Total Conc: 0.0

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	0.436			PCB-51	ND	0.588		
PCB-2	ND	0.464			PCB-52	ND	0.600	C	69
PCB-3	ND	0.505			PCB-53	ND	0.627		
PCB-4	ND	0.791			PCB-54	ND	0.445		
PCB-5	ND	0.569			PCB-55	ND	0.511		
PCB-6	ND	0.558			PCB-56	ND	0.460	C	60
PCB-7	ND	0.525			PCB-57	ND	0.506		
PCB-8	ND	0.577			PCB-58	ND	0.487		
PCB-9	ND	0.589			PCB-59	-	-	C042	42
PCB-10	ND	0.556			PCB-60	-	-	C056	56
PCB-11	ND	0.632			PCB-61	ND	0.560	C	70
PCB-12	ND	0.632			PCB-62	ND	0.507		
PCB-13	ND	0.656			PCB-63	ND	0.516		
PCB-14	ND	0.598			PCB-64	-	-	C041	41/71/72
PCB-15	ND	0.647			PCB-65	ND	0.535		
PCB-16	ND	0.583			PCB-66	ND	0.516	C	76
PCB-17	ND	0.646			PCB-67	ND	0.545		
PCB-18	ND	0.710			PCB-68	ND	0.475		
PCB-19	ND	0.701			PCB-69	-	-	C052	52
PCB-20	ND	0.812	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	0.730			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.695			PCB-73	ND	0.486		
PCB-24	ND	0.473			PCB-74	ND	0.530		
PCB-25	ND	0.813			PCB-75	-	-	C048	48
PCB-26	ND	0.805			PCB-76	-	-	C066	66
PCB-27	ND	0.505			PCB-77	ND	0.536		
PCB-28	ND	0.680			PCB-78	ND	0.465		
PCB-29	ND	0.762			PCB-79	ND	0.444		
PCB-30	ND	0.464			PCB-80	ND	0.438		
PCB-31	ND	0.801			PCB-81	ND	0.411		
PCB-32	ND	0.570			PCB-82	ND	1.10		
PCB-33	-	-	C020	20/21	PCB-83	ND	0.760	C	112
PCB-34	ND	0.854			PCB-84	ND	0.822	C	92
PCB-35	ND	0.904			PCB-85	ND	0.701	C	116
PCB-36	ND	0.822			PCB-86	ND	0.862		
PCB-37	ND	0.860			PCB-87	ND	0.703	C	117/125
PCB-38	ND	0.792			PCB-88	ND	0.424	C	91
PCB-39	ND	0.824			PCB-89	ND	0.842		
PCB-40	ND	0.888			PCB-90	ND	0.771	C	101
PCB-41	ND	0.541	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	0.608	C	59	PCB-92	-	-	C084	84
PCB-43	ND	0.696	C	49	PCB-93	ND	0.452		
PCB-44	ND	0.815			PCB-94	ND	0.516		
PCB-45	ND	0.732			PCB-95	ND	0.459		
PCB-46	ND	0.770			PCB-96	ND	0.341		
PCB-47	ND	0.639			PCB-97	ND	0.941		
PCB-48	ND	0.537	C	75	PCB-98	ND	0.510	C	102
PCB-49	-	-	C043	43	PCB-99	ND	0.699		
PCB-50	ND	0.612			PCB-100	ND	0.416		

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EPA Method 1668
PCBs

FAL ID: 12532-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	0.578		
PCB-102	-	-	C098	98	PCB-152	ND	0.251		
PCB-103	ND	0.420			PCB-153	ND	0.487		
PCB-104	ND	0.320			PCB-154	ND	0.301		
PCB-105	ND	0.761			PCB-155	ND	0.218		
PCB-106	ND	0.833	C	118	PCB-156	ND	0.459		
PCB-107	ND	0.729	C	108	PCB-157	ND	0.516		
PCB-108	-	-	C107	107	PCB-158	ND	0.445	C	160
PCB-109	ND	0.630			PCB-159	ND	0.433		
PCB-110	ND	0.619			PCB-160	-	-	C158	158
PCB-111	ND	0.602	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.669			PCB-163	-	-	C138	138/164
PCB-114	ND	0.762			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	0.472		
PCB-117	-	-	C087	87/125	PCB-167	ND	0.520		
PCB-118	-	-	C	106	PCB-168	ND	0.444		
PCB-119	ND	0.603			PCB-169	ND	0.465		
PCB-120	ND	0.581			PCB-170	ND	0.771		
PCB-121	ND	0.395			PCB-171	ND	0.687		
PCB-122	ND	0.752			PCB-172	ND	0.735		
PCB-123	ND	0.799			PCB-173	ND	0.772		
PCB-124	ND	0.790			PCB-174	ND	0.641		
PCB-125	-	-	C087	87/117	PCB-175	ND	0.661		
PCB-126	ND	0.928			PCB-176	ND	0.470		
PCB-127	ND	0.825			PCB-177	ND	0.744		
PCB-128	ND	0.550	C	162	PCB-178	ND	0.670		
PCB-129	ND	0.719			PCB-179	ND	0.450		
PCB-130	ND	0.665			PCB-180	ND	0.735		
PCB-131	ND	0.665	C	133	PCB-181	ND	0.721		
PCB-132	ND	0.529	C	161	PCB-182	ND	0.593	C	187
PCB-133	-	-	C131	131	PCB-183	ND	0.615		
PCB-134	ND	0.661	C	143	PCB-184	ND	0.410		
PCB-135	ND	0.613			PCB-185	ND	0.684		
PCB-136	ND	0.242			PCB-186	ND	0.451		
PCB-137	ND	0.650			PCB-187	-	-	C182	182
PCB-138	ND	0.502	C	163/164	PCB-188	ND	0.472		
PCB-139	ND	0.526	C	149	PCB-189	ND	0.509		
PCB-140	ND	0.530			PCB-190	ND	0.545		
PCB-141	ND	0.610			PCB-191	ND	0.539		
PCB-142	ND	0.654			PCB-192	ND	0.541		
PCB-143	-	-	C134	134	PCB-193	ND	0.516		
PCB-144	ND	0.537			PCB-194	ND	0.584		
PCB-145	ND	0.244			PCB-195	ND	0.636		
PCB-146	ND	0.484	C	165	PCB-196	ND	0.823	C	203
PCB-147	ND	0.520			PCB-197	ND	0.606		
PCB-148	ND	0.362			PCB-198	ND	0.954		
PCB-149	-	-	C139	139	PCB-199	ND	0.916		
PCB-150	ND	0.238			PCB-200	ND	0.634		

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EPA Method 1668
PCBs

FAL ID: 12532-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	0.625		
PCB-202	ND	0.672		
PCB-203	-	-	C196	196
PCB-204	ND	0.642		
PCB-205	ND	0.468		
PCB-206	ND	0.500		
PCB-207	ND	0.351		
PCB-208	ND	0.321		
PCB-209	ND	0.317		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	82.0	5.00 - 145	
13C-PCB-3	84.2	5.00 - 145	
13C-PCB-4	86.5	5.00 - 145	
13C-PCB-15	94.8	5.00 - 145	
13C-PCB-19	89.7	5.00 - 145	
13C-PCB-37	96.2	5.00 - 145	
13C-PCB-54	98.6	5.00 - 145	
13C-PCB-77	86.3	10.0 - 145	
13C-PCB-81	90.8	10.0 - 145	
13C-PCB-104	94.5	10.0 - 145	
13C-PCB-105	92.0	10.0 - 145	
13C-PCB-114	95.1	10.0 - 145	
13C-PCB-118	94.8	10.0 - 145	
13C-PCB-123	95.5	10.0 - 145	
13C-PCB-126	93.9	10.0 - 145	
13C-PCB-155	93.4	10.0 - 145	
13C-PCB-156	92.4	10.0 - 145	
13C-PCB-157	94.2	10.0 - 145	
13C-PCB-167	92.5	10.0 - 145	
13C-PCB-169	94.6	10.0 - 145	
13C-PCB-188	95.9	10.0 - 145	
13C-PCB-189	97.8	10.0 - 145	
13C-PCB-202	87.8	10.0 - 145	
13C-PCB-205	97.2	10.0 - 145	
13C-PCB-206	91.7	10.0 - 145	
13C-PCB-208	96.5	10.0 - 145	
13C-PCB-209	90.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	108	5.00 - 145	
13C-PCB-111	86.9	10.0 - 145	
13C-PCB-178	91.9	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-001-OPR
Client ID: OPR
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: ng/ml

Acquired: 07-25-2019

Compound	% Recovery	QC Limits	Qual
PCB-1	99.2	60.0 - 135	
PCB-3	99.0	60.0 - 135	
PCB-4	102	60.0 - 135	
PCB-15	92.6	60.0 - 135	
PCB-19	97.2	60.0 - 135	
PCB-37	88.2	60.0 - 135	
PCB-54	100	60.0 - 135	
PCB-77	100	60.0 - 135	
PCB-81	90.0	60.0 - 135	
PCB-104	101	60.0 - 135	
PCB-105	88.6	60.0 - 135	
PCB-114	90.0	60.0 - 135	
PCB-118	97.4	60.0 - 135	
PCB-123	103	60.0 - 135	
PCB-126	92.0	60.0 - 135	
PCB-155	102	60.0 - 135	
PCB-156	93.0	60.0 - 135	
PCB-157	95.4	60.0 - 135	
PCB-167	97.6	60.0 - 135	
PCB-169	101	60.0 - 135	
PCB-188	97.2	60.0 - 135	
PCB-189	98.6	60.0 - 135	
PCB-202	105	60.0 - 135	
PCB-205	103	60.0 - 135	
PCB-206	101	60.0 - 135	
PCB-208	104	60.0 - 135	
PCB-209	97.4	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	82.6	15.0 - 145	
13C-PCB-3	84.1	15.0 - 145	
13C-PCB-4	84.0	15.0 - 145	
13C-PCB-15	95.2	15.0 - 145	
13C-PCB-19	86.9	15.0 - 145	
13C-PCB-37	93.2	15.0 - 145	
13C-PCB-54	94.7	15.0 - 145	
13C-PCB-77	87.5	40.0 - 145	
13C-PCB-81	89.5	40.0 - 145	
13C-PCB-104	91.9	40.0 - 145	
13C-PCB-105	93.8	40.0 - 145	
13C-PCB-114	97.4	40.0 - 145	
13C-PCB-118	94.6	40.0 - 145	
13C-PCB-123	97.9	40.0 - 145	
13C-PCB-126	90.1	40.0 - 145	
13C-PCB-155	93.9	40.0 - 145	
13C-PCB-156	90.8	40.0 - 145	
13C-PCB-157	90.5	40.0 - 145	
13C-PCB-167	92.6	40.0 - 145	
13C-PCB-169	85.7	40.0 - 145	
13C-PCB-188	99.2	40.0 - 145	
13C-PCB-189	96.5	40.0 - 145	
13C-PCB-202	98.9	40.0 - 145	
13C-PCB-205	90.2	40.0 - 145	
13C-PCB-206	86.2	40.0 - 145	
13C-PCB-208	89.9	40.0 - 145	
13C-PCB-209	87.8	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	110	15.0 - 145	
13C-PCB-111	95.1	40.0 - 145	
13C-PCB-178	99.3	40.0 - 145	

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-001-SA
Client ID: LDW-Y2-SU-ENR-CA-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.00 g
% Solids: 82.55

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019
Total Conc: 90500

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	29.8	-			PCB-51	145	-		
PCB-2	7.34	-			PCB-52	3900	-	C	69
PCB-3	25.2	-			PCB-53	464	-		
PCB-4	235	-			PCB-54	7.48	-		
PCB-5	ND	0.807			PCB-55	56.1	-		
PCB-6	387	-			PCB-56	1320	-	C	60
PCB-7	41.7	-			PCB-57	29.2	-		
PCB-8	937	-			PCB-58	19.5	-		
PCB-9	49.1	-			PCB-59	-	-	C042	42
PCB-10	17.1	-			PCB-60	-	-	C056	56
PCB-11	36.0	-			PCB-61	3400	-	C	70
PCB-12	66.9	-			PCB-62	ND	0.596		
PCB-13	62.1	-			PCB-63	141	-		
PCB-14	ND	0.849			PCB-64	-	-	C041	41/71/72
PCB-15	479	-			PCB-65	ND	0.574		
PCB-16	679	-			PCB-66	3050	-	C	76
PCB-17	1050	-			PCB-67	137	-		
PCB-18	2210	-			PCB-68	38.3	-		
PCB-19	172	-			PCB-69	-	-	C052	52
PCB-20	1510	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	770	-			PCB-72	-	-	C041	41/64/71
PCB-23	3.23	-	J		PCB-73	ND	0.574		
PCB-24	89.5	-			PCB-74	1500	-		
PCB-25	473	-			PCB-75	-	-	C048	48
PCB-26	754	-			PCB-76	-	-	C066	66
PCB-27	81.5	-			PCB-77	246	-		
PCB-28	2320	-			PCB-78	12.7	-		
PCB-29	15.5	-			PCB-79	44.2	-		
PCB-30	2.11	-	J		PCB-80	ND	0.494		
PCB-31	2660	-			PCB-81	46.8	-		
PCB-32	710	-			PCB-82	350	-		
PCB-33	-	-	C020	20/21	PCB-83	169	-	C	112
PCB-34	29.6	-			PCB-84	1440	-	C	92
PCB-35	36.5	-			PCB-85	431	-	C	116
PCB-36	ND	0.532			PCB-86	ND	0.963		
PCB-37	700	-			PCB-87	930	-	C	117/125
PCB-38	16.5	-			PCB-88	548	-	C	91
PCB-39	4.77	-			PCB-89	47.7	-		
PCB-40	456	-			PCB-90	3340	-	C	101
PCB-41	2280	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1180	-	C	59	PCB-92	-	-	C084	84
PCB-43	3290	-	C	49	PCB-93	ND	0.550		
PCB-44	3040	-			PCB-94	25.0	-		
PCB-45	470	-			PCB-95	3570	-		
PCB-46	197	-			PCB-96	29.7	-		
PCB-47	1200	-			PCB-97	1070	-		
PCB-48	600	-	C	75	PCB-98	ND	0.509	C	102
PCB-49	-	-	C043	43	PCB-99	1670	-		
PCB-50	13.9	-			PCB-100	26.9	-		

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EPA Method 1668
PCBs

FAL ID: 12532-001-SA
Client ID: LDW-Y2-SU-ENR-CA-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.00 g
% Solids: 82.55

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	650	-		
PCB-102	-	-	C098	98	PCB-152	4.01	-		
PCB-103	79.9	-			PCB-153	2740	-		
PCB-104	ND	0.356			PCB-154	80.2	-		
PCB-105	951	-			PCB-155	ND	0.293		
PCB-106	3130	-	C	118	PCB-156	322	-		
PCB-107	267	-	C	108	PCB-157	73.1	-		
PCB-108	-	-	C107	107	PCB-158	311	-	C	160
PCB-109	ND	0.735			PCB-159	31.8	-		
PCB-110	3530	-			PCB-160	-	-	C158	158
PCB-111	48.5	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.732			PCB-163	-	-	C138	138/164
PCB-114	70.7	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	10.2	-		
PCB-117	-	-	C087	87/125	PCB-167	129	-		
PCB-118	-	-	C	106	PCB-168	ND	0.392		
PCB-119	131	-			PCB-169	ND	0.408		
PCB-120	23.2	-			PCB-170	1000	-		
PCB-121	ND	0.420			PCB-171	267	-		
PCB-122	35.7	-			PCB-172	163	-		
PCB-123	49.3	-			PCB-173	18.2	-		
PCB-124	98.9	-			PCB-174	924	-		
PCB-125	-	-	C087	87/117	PCB-175	37.1	-		
PCB-126	13.8	-			PCB-176	128	-		
PCB-127	ND	0.624			PCB-177	608	-		
PCB-128	479	-	C	162	PCB-178	190	-		
PCB-129	125	-			PCB-179	392	-		
PCB-130	223	-			PCB-180	2290	-		
PCB-131	106	-	C	133	PCB-181	ND	0.605		
PCB-132	914	-	C	161	PCB-182	1090	-	C	187
PCB-133	-	-	C131	131	PCB-183	535	-		
PCB-134	181	-	C	143	PCB-184	0.783	-	J	
PCB-135	409	-			PCB-185	98.6	-		
PCB-136	587	-			PCB-186	ND	0.368		
PCB-137	138	-			PCB-187	-	-	C182	182
PCB-138	2990	-	C	163/164	PCB-188	2.69	-	J	
PCB-139	2460	-	C	149	PCB-189	32.0	-		
PCB-140	36.9	-			PCB-190	202	-		
PCB-141	478	-			PCB-191	43.5	-		
PCB-142	ND	0.537			PCB-192	ND	0.475		
PCB-143	-	-	C134	134	PCB-193	109	-		
PCB-144	105	-			PCB-194	417	-		
PCB-145	1.62	-	J		PCB-195	185	-		
PCB-146	488	-	C	165	PCB-196	515	-	C	203
PCB-147	57.2	-			PCB-197	19.5	-		
PCB-148	ND	0.413			PCB-198	25.1	-		
PCB-149	-	-	C139	139	PCB-199	521	-		
PCB-150	9.89	-			PCB-200	59.4	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-001-SA
Client ID: LDW-Y2-SU-ENR-CA-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.00 g
% Solids: 82.55

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	62.9	-		
PCB-202	91.7	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.352		
PCB-205	21.8	-		
PCB-206	169	-		
PCB-207	22.5	-		
PCB-208	43.1	-		
PCB-209	72.4	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	93.4	5.00 - 145	
13C-PCB-3	97.4	5.00 - 145	
13C-PCB-4	92.4	5.00 - 145	
13C-PCB-15	107	5.00 - 145	
13C-PCB-19	99.0	5.00 - 145	
13C-PCB-37	108	5.00 - 145	
13C-PCB-54	88.3	5.00 - 145	
13C-PCB-77	118	10.0 - 145	
13C-PCB-81	113	10.0 - 145	
13C-PCB-104	97.5	10.0 - 145	
13C-PCB-105	82.0	10.0 - 145	
13C-PCB-114	78.4	10.0 - 145	
13C-PCB-118	79.2	10.0 - 145	
13C-PCB-123	74.9	10.0 - 145	
13C-PCB-126	86.6	10.0 - 145	
13C-PCB-155	99.5	10.0 - 145	
13C-PCB-156	89.0	10.0 - 145	
13C-PCB-157	92.3	10.0 - 145	
13C-PCB-167	85.2	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	71.7	10.0 - 145	
13C-PCB-189	94.9	10.0 - 145	
13C-PCB-202	84.6	10.0 - 145	
13C-PCB-205	102	10.0 - 145	
13C-PCB-206	96.3	10.0 - 145	
13C-PCB-208	106	10.0 - 145	
13C-PCB-209	90.0	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	91.0	5.00 - 145	
13C-PCB-111	93.4	10.0 - 145	
13C-PCB-178	77.4	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-002-SA
Client ID: LDW-Y2-SU-ENR-CB-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.10 g
% Solids: 80.38

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019
Total Conc: 231000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	67.2	-			PCB-51	297	-		
PCB-2	13.2	-			PCB-52	9730	-	C	69
PCB-3	47.5	-			PCB-53	966	-		
PCB-4	606	-			PCB-54	14.1	-		
PCB-5	ND	0.792			PCB-55	148	-		
PCB-6	817	-			PCB-56	3740	-	C	60
PCB-7	103	-			PCB-57	54.6	-		
PCB-8	2300	-			PCB-58	39.4	-		
PCB-9	113	-			PCB-59	-	-	C042	42
PCB-10	36.5	-			PCB-60	-	-	C056	56
PCB-11	76.5	-			PCB-61	10400	-	C	70
PCB-12	166	-			PCB-62	ND	0.414		
PCB-13	139	-			PCB-63	359	-		
PCB-14	ND	0.833			PCB-64	-	-	C041	41/71/72
PCB-15	1110	-			PCB-65	ND	0.400		
PCB-16	1420	-			PCB-66	7910	-	C	76
PCB-17	2250	-			PCB-67	318	-		
PCB-18	4760	-			PCB-68	ND	0.363		
PCB-19	354	-			PCB-69	-	-	C052	52
PCB-20	3790	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	2050	-			PCB-72	-	-	C041	41/64/71
PCB-23	6.35	-			PCB-73	ND	0.399		
PCB-24	179	-			PCB-74	4150	-		
PCB-25	970	-			PCB-75	-	-	C048	48
PCB-26	1740	-			PCB-76	-	-	C066	66
PCB-27	172	-			PCB-77	626	-		
PCB-28	5580	-			PCB-78	32.9	-		
PCB-29	37.1	-			PCB-79	104	-		
PCB-30	4.85	-			PCB-80	ND	0.344		
PCB-31	6820	-			PCB-81	162	-		
PCB-32	1550	-			PCB-82	1100	-		
PCB-33	-	-	C020	20/21	PCB-83	452	-	C	112
PCB-34	67.6	-			PCB-84	3870	-	C	92
PCB-35	101	-			PCB-85	1310	-	C	116
PCB-36	ND	0.676			PCB-86	ND	0.606		
PCB-37	1720	-			PCB-87	3350	-	C	117/125
PCB-38	33.0	-			PCB-88	1670	-	C	91
PCB-39	10.9	-			PCB-89	106	-		
PCB-40	115	-			PCB-90	9910	-	C	101
PCB-41	4790	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	2240	-	C	59	PCB-92	-	-	C084	84
PCB-43	7270	-	C	49	PCB-93	ND	0.616		
PCB-44	6470	-			PCB-94	63.5	-		
PCB-45	992	-			PCB-95	11300	-		
PCB-46	374	-			PCB-96	67.2	-		
PCB-47	2460	-			PCB-97	3190	-		
PCB-48	1230	-	C	75	PCB-98	ND	0.570	C	102
PCB-49	-	-	C043	43	PCB-99	4230	-		
PCB-50	27.1	-			PCB-100	68.0	-		

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EPA Method 1668
PCBs

FAL ID: 12532-002-SA
Client ID: LDW-Y2-SU-ENR-CB-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.10 g
% Solids: 80.38

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	1490	-		
PCB-102	-	-	C098	98	PCB-152	11.6	-		
PCB-103	139	-			PCB-153	6780	-		
PCB-104	ND	0.399			PCB-154	244	-		
PCB-105	3390	-			PCB-155	ND	0.334		
PCB-106	9100	-	C	118	PCB-156	1050	-		
PCB-107	745	-	C	108	PCB-157	235	-		
PCB-108	-	-	C107	107	PCB-158	999	-	C	160
PCB-109	3.42	-	J		PCB-159	66.9	-		
PCB-110	10200	-			PCB-160	-	-	C158	158
PCB-111	183	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.460			PCB-163	-	-	C138	138/164
PCB-114	235	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	36.4	-		
PCB-117	-	-	C087	87/125	PCB-167	389	-		
PCB-118	-	-	C	106	PCB-168	ND	0.333		
PCB-119	266	-			PCB-169	ND	0.355		
PCB-120	45.0	-			PCB-170	2370	-		
PCB-121	ND	0.470			PCB-171	653	-		
PCB-122	107	-			PCB-172	401	-		
PCB-123	162	-			PCB-173	53.6	-		
PCB-124	340	-			PCB-174	2090	-		
PCB-125	-	-	C087	87/117	PCB-175	89.1	-		
PCB-126	40.6	-			PCB-176	281	-		
PCB-127	ND	0.343			PCB-177	1470	-		
PCB-128	1500	-	C	162	PCB-178	467	-		
PCB-129	446	-			PCB-179	857	-		
PCB-130	610	-			PCB-180	5170	-		
PCB-131	ND	-	C	133	PCB-181	ND	0.916		
PCB-132	2750	-	C	161	PCB-182	2620	-	C	187
PCB-133	-	-	C131	131	PCB-183	1270	-		
PCB-134	475	-	C	143	PCB-184	3.10	-	J	
PCB-135	1090	-			PCB-185	238	-		
PCB-136	1610	-			PCB-186	ND	0.558		
PCB-137	488	-			PCB-187	-	-	C182	182
PCB-138	8560	-	C	163/164	PCB-188	9.34	-		
PCB-139	6120	-	C	149	PCB-189	73.0	-		
PCB-140	72.9	-			PCB-190	462	-		
PCB-141	1410	-			PCB-191	99.0	-		
PCB-142	ND	0.456			PCB-192	ND	0.718		
PCB-143	-	-	C134	134	PCB-193	254	-		
PCB-144	286	-			PCB-194	747	-		
PCB-145	5.18	-			PCB-195	411	-		
PCB-146	1150	-	C	165	PCB-196	925	-	C	203
PCB-147	163	-			PCB-197	39.9	-		
PCB-148	ND	0.471			PCB-198	62.3	-		
PCB-149	-	-	C139	139	PCB-199	959	-		
PCB-150	32.9	-			PCB-200	118	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-002-SA
Client ID: LDW-Y2-SU-ENR-CB-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.10 g
% Solids: 80.38

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	127	-		
PCB-202	188	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.401		
PCB-205	42.4	-		
PCB-206	290	-		
PCB-207	41.5	-		
PCB-208	68.6	-		
PCB-209	80.9	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	94.3	5.00 - 145	
13C-PCB-3	99.5	5.00 - 145	
13C-PCB-4	91.2	5.00 - 145	
13C-PCB-15	104	5.00 - 145	
13C-PCB-19	100	5.00 - 145	
13C-PCB-37	107	5.00 - 145	
13C-PCB-54	91.5	5.00 - 145	
13C-PCB-77	111	10.0 - 145	
13C-PCB-81	109	10.0 - 145	
13C-PCB-104	93.5	10.0 - 145	
13C-PCB-105	81.4	10.0 - 145	
13C-PCB-114	78.1	10.0 - 145	
13C-PCB-118	70.7	10.0 - 145	
13C-PCB-123	73.8	10.0 - 145	
13C-PCB-126	87.2	10.0 - 145	
13C-PCB-155	90.7	10.0 - 145	
13C-PCB-156	91.9	10.0 - 145	
13C-PCB-157	91.8	10.0 - 145	
13C-PCB-167	85.8	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	71.2	10.0 - 145	
13C-PCB-189	90.0	10.0 - 145	
13C-PCB-202	88.6	10.0 - 145	
13C-PCB-205	108	10.0 - 145	
13C-PCB-206	98.8	10.0 - 145	
13C-PCB-208	119	10.0 - 145	
13C-PCB-209	90.8	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	91.4	5.00 - 145	
13C-PCB-111	93.0	10.0 - 145	
13C-PCB-178	77.0	10.0 - 145	

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

Analyst: [signature]

Date: 9/20/2019

Reviewed By: DPV

Date: 9/20/2019

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EPA Method 1668
PCBs

FAL ID: 12532-003-SA
Client ID: LDW-Y2-SU-ENR-CC-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.05 g
% Solids: 82.64

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019
Total Conc: 20300

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	7.28	-			PCB-51	26.7	-		
PCB-2	1.50	-	J		PCB-52	650	-	C	69
PCB-3	5.57	-			PCB-53	78.6	-		
PCB-4	55.1	-			PCB-54	1.58	-	J	
PCB-5	ND	0.367			PCB-55	15.9	-		
PCB-6	54.4	-			PCB-56	366	-	C	60
PCB-7	10.4	-			PCB-57	4.24	-		
PCB-8	234	-			PCB-58	2.68	-	J	
PCB-9	11.9	-			PCB-59	-	-	C042	42
PCB-10	5.34	-			PCB-60	-	-	C056	56
PCB-11	13.4	-			PCB-61	750	-	C	70
PCB-12	10.8	-			PCB-62	ND	0.923		
PCB-13	13.2	-			PCB-63	23.9	-		
PCB-14	ND	0.386			PCB-64	-	-	C041	41/71/72
PCB-15	136	-			PCB-65	ND	0.890		
PCB-16	141	-			PCB-66	587	-	C	76
PCB-17	188	-			PCB-67	22.4	-		
PCB-18	417	-			PCB-68	6.47	-		
PCB-19	37.9	-			PCB-69	-	-	C052	52
PCB-20	329	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	172	-			PCB-72	-	-	C041	41/64/71
PCB-23	0.701	-	J		PCB-73	ND	0.889		
PCB-24	18.9	-			PCB-74	289	-		
PCB-25	65.7	-			PCB-75	-	-	C048	48
PCB-26	108	-			PCB-76	-	-	C066	66
PCB-27	19.9	-			PCB-77	66.0	-		
PCB-28	532	-			PCB-78	2.98	-	J	
PCB-29	3.80	-	J		PCB-79	9.68	-		
PCB-30	ND	0.460			PCB-80	ND	0.766		
PCB-31	529	-			PCB-81	17.4	-		
PCB-32	131	-			PCB-82	96.4	-		
PCB-33	-	-	C020	20/21	PCB-83	36.1	-	C	112
PCB-34	3.61	-	J		PCB-84	292	-	C	92
PCB-35	9.29	-			PCB-85	113	-	C	116
PCB-36	ND	0.955			PCB-86	ND	0.898		
PCB-37	192	-			PCB-87	281	-	C	117/125
PCB-38	3.74	-	J		PCB-88	120	-	C	91
PCB-39	ND	0.978			PCB-89	12.0	-		
PCB-40	95.6	-			PCB-90	783	-	C	101
PCB-41	451	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	187	-	C	59	PCB-92	-	-	C084	84
PCB-43	480	-	C	49	PCB-93	ND	0.461		
PCB-44	502	-			PCB-94	4.84	-		
PCB-45	86.2	-			PCB-95	750	-		
PCB-46	34.0	-			PCB-96	7.31	-		
PCB-47	185	-			PCB-97	241	-		
PCB-48	102	-	C	75	PCB-98	ND	0.427	C	102
PCB-49	-	-	C043	43	PCB-99	329	-		
PCB-50	2.33	-	J		PCB-100	4.54	-		

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EPA Method 1668
PCBs

FAL ID: 12532-003-SA
Client ID: LDW-Y2-SU-ENR-CC-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.05 g
% Solids: 82.64

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	162	-		
PCB-102	-	-	C098	98	PCB-152	1.14	-	J	
PCB-103	11.0	-			PCB-153	734	-		
PCB-104	ND	0.299			PCB-154	16.7	-		
PCB-105	316	-			PCB-155	ND	0.315		
PCB-106	789	-	C	118	PCB-156	103	-		
PCB-107	61.0	-	C	108	PCB-157	24.0	-		
PCB-108	-	-	C107	107	PCB-158	98.1	-	C	160
PCB-109	ND	0.685			PCB-159	9.59	-		
PCB-110	823	-			PCB-160	-	-	C158	158
PCB-111	16.1	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.683			PCB-163	-	-	C138	138/164
PCB-114	23.6	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	4.32	-		
PCB-117	-	-	C087	87/125	PCB-167	40.8	-		
PCB-118	-	-	C	106	PCB-168	ND	0.636		
PCB-119	19.6	-			PCB-169	ND	0.706		
PCB-120	3.29	-	J		PCB-170	295	-		
PCB-121	ND	0.352			PCB-171	81.0	-		
PCB-122	12.3	-			PCB-172	49.0	-		
PCB-123	18.0	-			PCB-173	6.77	-		
PCB-124	35.7	-			PCB-174	244	-		
PCB-125	-	-	C087	87/117	PCB-175	11.4	-		
PCB-126	4.80	-			PCB-176	33.4	-		
PCB-127	ND	0.868			PCB-177	169	-		
PCB-128	141	-	C	162	PCB-178	51.1	-		
PCB-129	42.0	-			PCB-179	99.5	-		
PCB-130	63.6	-			PCB-180	628	-		
PCB-131	26.0	-	C	133	PCB-181	ND	0.589		
PCB-132	210	-	C	161	PCB-182	299	-	C	187
PCB-133	-	-	C131	131	PCB-183	155	-		
PCB-134	44.4	-	C	143	PCB-184	ND	0.328		
PCB-135	104	-			PCB-185	30.7	-		
PCB-136	142	-			PCB-186	ND	0.359		
PCB-137	41.3	-			PCB-187	-	-	C182	182
PCB-138	834	-	C	163/164	PCB-188	ND	0.443		
PCB-139	581	-	C	149	PCB-189	9.85	-		
PCB-140	7.44	-			PCB-190	63.2	-		
PCB-141	146	-			PCB-191	12.5	-		
PCB-142	ND	0.872			PCB-192	ND	0.462		
PCB-143	-	-	C134	134	PCB-193	33.2	-		
PCB-144	33.9	-			PCB-194	115	-		
PCB-145	0.798	-	J		PCB-195	54.9	-		
PCB-146	110	-	C	165	PCB-196	143	-	C	203
PCB-147	16.3	-			PCB-197	5.23	-		
PCB-148	ND	0.444			PCB-198	7.23	-		
PCB-149	-	-	C139	139	PCB-199	143	-		
PCB-150	2.33	-	J		PCB-200	17.1	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-003-SA
Client ID: LDW-Y2-SU-ENR-CC-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.05 g
% Solids: 82.64

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	16.4	-		
PCB-202	25.9	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.481		
PCB-205	6.72	-		
PCB-206	49.2	-		
PCB-207	6.56	-		
PCB-208	11.7	-		
PCB-209	21.1	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	98.4	5.00 - 145	
13C-PCB-3	98.0	5.00 - 145	
13C-PCB-4	90.3	5.00 - 145	
13C-PCB-15	102	5.00 - 145	
13C-PCB-19	101	5.00 - 145	
13C-PCB-37	114	5.00 - 145	
13C-PCB-54	96.7	5.00 - 145	
13C-PCB-77	110	10.0 - 145	
13C-PCB-81	107	10.0 - 145	
13C-PCB-104	102	10.0 - 145	
13C-PCB-105	78.9	10.0 - 145	
13C-PCB-114	77.5	10.0 - 145	
13C-PCB-118	76.5	10.0 - 145	
13C-PCB-123	72.3	10.0 - 145	
13C-PCB-126	77.7	10.0 - 145	
13C-PCB-155	97.1	10.0 - 145	
13C-PCB-156	90.4	10.0 - 145	
13C-PCB-157	90.0	10.0 - 145	
13C-PCB-167	84.0	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	68.5	10.0 - 145	
13C-PCB-189	92.9	10.0 - 145	
13C-PCB-202	88.5	10.0 - 145	
13C-PCB-205	101	10.0 - 145	
13C-PCB-206	87.3	10.0 - 145	
13C-PCB-208	112	10.0 - 145	
13C-PCB-209	90.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	99.4	5.00 - 145	
13C-PCB-111	92.8	10.0 - 145	
13C-PCB-178	76.2	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-004-SA
Client ID: LDW-Y2-SU-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.13 g
% Solids: 78.98

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019
Total Conc: 77700

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	26.6	-			PCB-51	95.7	-		
PCB-2	4.99	-			PCB-52	2930	-	C	69
PCB-3	18.0	-			PCB-53	284	-		
PCB-4	200	-			PCB-54	4.85	-		
PCB-5	ND	0.405			PCB-55	53.5	-		
PCB-6	193	-			PCB-56	1280	-	C	60
PCB-7	36.7	-			PCB-57	16.5	-		
PCB-8	757	-			PCB-58	10.0	-		
PCB-9	34.7	-			PCB-59	-	-	C042	42
PCB-10	10.9	-			PCB-60	-	-	C056	56
PCB-11	20.1	-			PCB-61	3120	-	C	70
PCB-12	42.3	-			PCB-62	ND	0.370		
PCB-13	29.9	-			PCB-63	98.8	-		
PCB-14	ND	0.426			PCB-64	-	-	C041	41/71/72
PCB-15	389	-			PCB-65	ND	0.357		
PCB-16	363	-			PCB-66	2300	-	C	76
PCB-17	684	-			PCB-67	80.6	-		
PCB-18	1460	-			PCB-68	21.6	-		
PCB-19	106	-			PCB-69	-	-	C052	52
PCB-20	1110	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	587	-			PCB-72	-	-	C041	41/64/71
PCB-23	2.17	-	J		PCB-73	ND	0.357		
PCB-24	43.9	-			PCB-74	1180	-		
PCB-25	221	-			PCB-75	-	-	C048	48
PCB-26	369	-			PCB-76	-	-	C066	66
PCB-27	65.8	-			PCB-77	217	-		
PCB-28	1710	-			PCB-78	13.6	-		
PCB-29	12.8	-			PCB-79	40.5	-		
PCB-30	ND	0.860			PCB-80	ND	0.307		
PCB-31	1820	-			PCB-81	67.5	-		
PCB-32	512	-			PCB-82	401	-		
PCB-33	-	-	C020	20/21	PCB-83	151	-	C	112
PCB-34	16.7	-			PCB-84	1320	-	C	92
PCB-35	30.5	-			PCB-85	460	-	C	116
PCB-36	ND	0.895			PCB-86	ND	0.722		
PCB-37	579	-			PCB-87	1190	-	C	117/125
PCB-38	12.0	-			PCB-88	480	-	C	91
PCB-39	4.69	-			PCB-89	41.4	-		
PCB-40	317	-			PCB-90	3300	-	C	101
PCB-41	1750	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	742	-	C	59	PCB-92	-	-	C084	84
PCB-43	2090	-	C	49	PCB-93	ND	0.600		
PCB-44	2130	-			PCB-94	18.9	-		
PCB-45	305	-			PCB-95	3190	-		
PCB-46	116	-			PCB-96	25.9	-		
PCB-47	716	-			PCB-97	1080	-		
PCB-48	424	-	C	75	PCB-98	ND	0.555	C	102
PCB-49	-	-	C043	43	PCB-99	1420	-		
PCB-50	8.75	-			PCB-100	16.8	-		

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EPA Method 1668
PCBs

FAL ID: 12532-004-SA
Client ID: LDW-Y2-SU-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.13 g
% Solids: 78.98

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	583	-		
PCB-102	-	-	C098	98	PCB-152	4.44	-		
PCB-103	45.1	-			PCB-153	2730	-		
PCB-104	ND	0.388			PCB-154	64.8	-		
PCB-105	1240	-			PCB-155	ND	0.394		
PCB-106	3270	-	C	118	PCB-156	398	-		
PCB-107	235	-	C	108	PCB-157	88.3	-		
PCB-108	-	-	C107	107	PCB-158	365	-	C	160
PCB-109	2.23	-	J		PCB-159	29.0	-		
PCB-110	3420	-			PCB-160	-	-	C158	158
PCB-111	52.9	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.548			PCB-163	-	-	C138	138/164
PCB-114	89.2	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	14.3	-		
PCB-117	-	-	C087	87/125	PCB-167	150	-		
PCB-118	-	-	C	106	PCB-168	ND	0.460		
PCB-119	78.9	-			PCB-169	ND	0.452		
PCB-120	13.2	-			PCB-170	1000	-		
PCB-121	ND	0.458			PCB-171	263	-		
PCB-122	45.3	-			PCB-172	160	-		
PCB-123	63.9	-			PCB-173	20.4	-		
PCB-124	137	-			PCB-174	844	-		
PCB-125	-	-	C087	87/117	PCB-175	40.5	-		
PCB-126	17.6	-			PCB-176	115	-		
PCB-127	ND	0.606			PCB-177	555	-		
PCB-128	554	-	C	162	PCB-178	173	-		
PCB-129	168	-			PCB-179	341	-		
PCB-130	243	-			PCB-180	2220	-		
PCB-131	103	-	C	133	PCB-181	ND	0.818		
PCB-132	876	-	C	161	PCB-182	1020	-	C	187
PCB-133	-	-	C131	131	PCB-183	519	-		
PCB-134	182	-	C	143	PCB-184	ND	0.455		
PCB-135	363	-			PCB-185	101	-		
PCB-136	621	-			PCB-186	ND	0.498		
PCB-137	166	-			PCB-187	-	-	C182	182
PCB-138	3140	-	C	163/164	PCB-188	2.16	-	J	
PCB-139	2250	-	C	149	PCB-189	32.4	-		
PCB-140	22.5	-			PCB-190	206	-		
PCB-141	561	-			PCB-191	41.8	-		
PCB-142	ND	0.631			PCB-192	ND	0.641		
PCB-143	-	-	C134	134	PCB-193	107	-		
PCB-144	126	-			PCB-194	368	-		
PCB-145	2.06	-	J		PCB-195	179	-		
PCB-146	415	-	C	165	PCB-196	469	-	C	203
PCB-147	59.8	-			PCB-197	16.6	-		
PCB-148	ND	0.555			PCB-198	19.8	-		
PCB-149	-	-	C139	139	PCB-199	459	-		
PCB-150	7.57	-			PCB-200	54.8	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-004-SA
Client ID: LDW-Y2-SU-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.13 g
% Solids: 78.98

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	56.5	-		
PCB-202	82.6	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.460		
PCB-205	19.8	-		
PCB-206	148	-		
PCB-207	20.0	-		
PCB-208	36.7	-		
PCB-209	60.4	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	93.4	5.00 - 145	
13C-PCB-3	94.6	5.00 - 145	
13C-PCB-4	85.3	5.00 - 145	
13C-PCB-15	98.5	5.00 - 145	
13C-PCB-19	95.9	5.00 - 145	
13C-PCB-37	108	5.00 - 145	
13C-PCB-54	85.2	5.00 - 145	
13C-PCB-77	103	10.0 - 145	
13C-PCB-81	100	10.0 - 145	
13C-PCB-104	92.9	10.0 - 145	
13C-PCB-105	82.9	10.0 - 145	
13C-PCB-114	79.1	10.0 - 145	
13C-PCB-118	80.1	10.0 - 145	
13C-PCB-123	75.4	10.0 - 145	
13C-PCB-126	85.5	10.0 - 145	
13C-PCB-155	84.7	10.0 - 145	
13C-PCB-156	89.7	10.0 - 145	
13C-PCB-157	96.3	10.0 - 145	
13C-PCB-167	86.3	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	73.8	10.0 - 145	
13C-PCB-189	94.5	10.0 - 145	
13C-PCB-202	88.8	10.0 - 145	
13C-PCB-205	95.7	10.0 - 145	
13C-PCB-206	87.8	10.0 - 145	
13C-PCB-208	106	10.0 - 145	
13C-PCB-209	79.5	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	92.2	5.00 - 145	
13C-PCB-111	91.2	10.0 - 145	
13C-PCB-178	80.8	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: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-005-SA
Client ID: LDW-Y2-SU-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.04 g
% Solids: 77.78

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019
Total Conc: 49200

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	30.9	-			PCB-51	54.0	-		
PCB-2	3.85	-	J		PCB-52	1680	-	C	69
PCB-3	19.5	-			PCB-53	167	-		
PCB-4	108	-			PCB-54	3.05	-	J	
PCB-5	ND	0.597			PCB-55	32.1	-		
PCB-6	115	-			PCB-56	654	-	C	60
PCB-7	21.5	-			PCB-57	12.0	-		
PCB-8	404	-			PCB-58	7.11	-		
PCB-9	23.1	-			PCB-59	-	-	C042	42
PCB-10	7.28	-			PCB-60	-	-	C056	56
PCB-11	23.6	-			PCB-61	1680	-	C	70
PCB-12	34.2	-			PCB-62	ND	0.470		
PCB-13	15.0	-			PCB-63	57.9	-		
PCB-14	ND	0.627			PCB-64	-	-	C041	41/71/72
PCB-15	209	-			PCB-65	ND	0.453		
PCB-16	227	-			PCB-66	1290	-	C	76
PCB-17	376	-			PCB-67	56.7	-		
PCB-18	792	-			PCB-68	12.4	-		
PCB-19	59.2	-			PCB-69	-	-	C052	52
PCB-20	677	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	354	-			PCB-72	-	-	C041	41/64/71
PCB-23	1.74	-	J		PCB-73	ND	0.453		
PCB-24	29.3	-			PCB-74	639	-		
PCB-25	162	-			PCB-75	-	-	C048	48
PCB-26	263	-			PCB-76	-	-	C066	66
PCB-27	32.5	-			PCB-77	116	-		
PCB-28	1060	-			PCB-78	7.98	-		
PCB-29	8.47	-			PCB-79	27.5	-		
PCB-30	ND	0.578			PCB-80	ND	0.390		
PCB-31	1110	-			PCB-81	36.6	-		
PCB-32	256	-			PCB-82	215	-		
PCB-33	-	-	C020	20/21	PCB-83	90.9	-	C	112
PCB-34	10.1	-			PCB-84	787	-	C	92
PCB-35	17.8	-			PCB-85	250	-	C	116
PCB-36	ND	0.373			PCB-86	ND	0.875		
PCB-37	322	-			PCB-87	637	-	C	117/125
PCB-38	8.88	-			PCB-88	289	-	C	91
PCB-39	3.28	-	J		PCB-89	20.8	-		
PCB-40	165	-			PCB-90	2020	-	C	101
PCB-41	884	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	403	-	C	59	PCB-92	-	-	C084	84
PCB-43	1250	-	C	49	PCB-93	ND	0.503		
PCB-44	1150	-			PCB-94	11.6	-		
PCB-45	169	-			PCB-95	1990	-		
PCB-46	68.9	-			PCB-96	14.1	-		
PCB-47	416	-			PCB-97	609	-		
PCB-48	236	-	C	75	PCB-98	ND	0.466	C	102
PCB-49	-	-	C043	43	PCB-99	913	-		
PCB-50	4.85	-			PCB-100	14.5	-		

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EPA Method 1668
PCBs

FAL ID: 12532-005-SA
Client ID: LDW-Y2-SU-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.04 g
% Solids: 77.78

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	436	-		
PCB-102	-	-	C098	98	PCB-152	2.69	-	J	
PCB-103	47.5	-			PCB-153	1910	-		
PCB-104	ND	0.326			PCB-154	80.4	-		
PCB-105	674	-			PCB-155	ND	0.313		
PCB-106	1910	-	C	118	PCB-156	230	-		
PCB-107	154	-	C	108	PCB-157	51.6	-		
PCB-108	-	-	C107	107	PCB-158	221	-	C	160
PCB-109	ND	0.668			PCB-159	26.2	-		
PCB-110	1990	-			PCB-160	-	-	C158	158
PCB-111	25.9	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.665			PCB-163	-	-	C138	138/164
PCB-114	48.2	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	6.77	-		
PCB-117	-	-	C087	87/125	PCB-167	87.0	-		
PCB-118	-	-	C	106	PCB-168	ND	0.408		
PCB-119	67.9	-			PCB-169	ND	0.436		
PCB-120	ND	0.600			PCB-170	755	-		
PCB-121	ND	0.384			PCB-171	208	-		
PCB-122	26.6	-			PCB-172	132	-		
PCB-123	38.4	-			PCB-173	15.4	-		
PCB-124	77.4	-			PCB-174	718	-		
PCB-125	-	-	C087	87/117	PCB-175	33.8	-		
PCB-126	9.33	-			PCB-176	96.2	-		
PCB-127	ND	0.579			PCB-177	485	-		
PCB-128	335	-	C	162	PCB-178	159	-		
PCB-129	92.6	-			PCB-179	301	-		
PCB-130	169	-			PCB-180	1850	-		
PCB-131	76.0	-	C	133	PCB-181	ND	0.598		
PCB-132	539	-	C	161	PCB-182	958	-	C	187
PCB-133	-	-	C131	131	PCB-183	441	-		
PCB-134	113	-	C	143	PCB-184	ND	0.333		
PCB-135	274	-			PCB-185	79.3	-		
PCB-136	412	-			PCB-186	ND	0.364		
PCB-137	92.2	-			PCB-187	-	-	C182	182
PCB-138	2060	-	C	163/164	PCB-188	2.40	-	J	
PCB-139	1590	-	C	149	PCB-189	23.8	-		
PCB-140	25.5	-			PCB-190	155	-		
PCB-141	339	-			PCB-191	32.4	-		
PCB-142	ND	0.560			PCB-192	ND	0.469		
PCB-143	-	-	C134	134	PCB-193	95.5	-		
PCB-144	77.8	-			PCB-194	372	-		
PCB-145	1.20	-	J		PCB-195	179	-		
PCB-146	364	-	C	165	PCB-196	444	-	C	203
PCB-147	40.6	-			PCB-197	16.4	-		
PCB-148	ND	0.442			PCB-198	18.9	-		
PCB-149	-	-	C139	139	PCB-199	448	-		
PCB-150	8.28	-			PCB-200	51.3	-		

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EPA Method 1668
PCBs

FAL ID: 12532-005-SA
Client ID: LDW-Y2-SU-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.04 g
% Solids: 77.78

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	55.5	-		
PCB-202	83.6	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.395		
PCB-205	20.0	-		
PCB-206	172	-		
PCB-207	22.5	-		
PCB-208	43.6	-		
PCB-209	91.6	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	99.3	5.00 - 145	
13C-PCB-3	101	5.00 - 145	
13C-PCB-4	90.9	5.00 - 145	
13C-PCB-15	102	5.00 - 145	
13C-PCB-19	101	5.00 - 145	
13C-PCB-37	104	5.00 - 145	
13C-PCB-54	87.5	5.00 - 145	
13C-PCB-77	108	10.0 - 145	
13C-PCB-81	105	10.0 - 145	
13C-PCB-104	94.1	10.0 - 145	
13C-PCB-105	82.7	10.0 - 145	
13C-PCB-114	80.6	10.0 - 145	
13C-PCB-118	80.3	10.0 - 145	
13C-PCB-123	74.8	10.0 - 145	
13C-PCB-126	88.0	10.0 - 145	
13C-PCB-155	90.0	10.0 - 145	
13C-PCB-156	92.2	10.0 - 145	
13C-PCB-157	96.5	10.0 - 145	
13C-PCB-167	90.0	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	74.4	10.0 - 145	
13C-PCB-189	91.6	10.0 - 145	
13C-PCB-202	90.8	10.0 - 145	
13C-PCB-205	98.2	10.0 - 145	
13C-PCB-206	86.4	10.0 - 145	
13C-PCB-208	110	10.0 - 145	
13C-PCB-209	85.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	95.8	5.00 - 145	
13C-PCB-111	93.6	10.0 - 145	
13C-PCB-178	82.0	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-006-SA
Client ID: LDW-Y2-SU-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.03 g
% Solids: 77.53

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019
Total Conc: 165000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	32.3	-			PCB-51	135	-		
PCB-2	7.51	-			PCB-52	5960	-	C	69
PCB-3	25.2	-			PCB-53	413	-		
PCB-4	277	-			PCB-54	6.77	-		
PCB-5	ND	0.901			PCB-55	94.2	-		
PCB-6	260	-			PCB-56	2670	-	C	60
PCB-7	46.7	-			PCB-57	25.4	-		
PCB-8	1290	-			PCB-58	11.1	-		
PCB-9	60.5	-			PCB-59	-	-	C042	42
PCB-10	14.6	-			PCB-60	-	-	C056	56
PCB-11	15.3	-			PCB-61	6650	-	C	70
PCB-12	50.9	-			PCB-62	ND	0.448		
PCB-13	50.8	-			PCB-63	174	-		
PCB-14	ND	0.947			PCB-64	-	-	C041	41/71/72
PCB-15	652	-			PCB-65	ND	0.432		
PCB-16	619	-			PCB-66	4110	-	C	76
PCB-17	988	-			PCB-67	136	-		
PCB-18	2230	-			PCB-68	27.1	-		
PCB-19	136	-			PCB-69	-	-	C052	52
PCB-20	1990	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	1090	-			PCB-72	-	-	C041	41/64/71
PCB-23	3.73	-	J		PCB-73	ND	0.431		
PCB-24	76.8	-			PCB-74	2330	-		
PCB-25	315	-			PCB-75	-	-	C048	48
PCB-26	554	-			PCB-76	-	-	C066	66
PCB-27	77.9	-			PCB-77	423	-		
PCB-28	3070	-			PCB-78	27.3	-		
PCB-29	22.9	-			PCB-79	85.3	-		
PCB-30	1.87	-	J		PCB-80	ND	0.372		
PCB-31	3400	-			PCB-81	190	-		
PCB-32	722	-			PCB-82	976	-		
PCB-33	-	-	C020	20/21	PCB-83	332	-	C	112
PCB-34	18.3	-			PCB-84	3110	-	C	92
PCB-35	46.1	-			PCB-85	1130	-	C	116
PCB-36	ND	0.444			PCB-86	ND	0.734		
PCB-37	1050	-			PCB-87	3320	-	C	117/125
PCB-38	20.8	-			PCB-88	1000	-	C	91
PCB-39	4.29	-			PCB-89	81.9	-		
PCB-40	533	-			PCB-90	8710	-	C	101
PCB-41	3110	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1170	-	C	59	PCB-92	-	-	C084	84
PCB-43	3380	-	C	49	PCB-93	ND	0.723		
PCB-44	4050	-			PCB-94	34.3	-		
PCB-45	434	-			PCB-95	7590	-		
PCB-46	155	-			PCB-96	49.2	-		
PCB-47	1120	-			PCB-97	2690	-		
PCB-48	666	-	C	75	PCB-98	ND	0.669	C	102
PCB-49	-	-	C043	43	PCB-99	3140	-		
PCB-50	10.6	-			PCB-100	20.6	-		

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EPA Method 1668
PCBs

FAL ID: 12532-006-SA
Client ID: LDW-Y2-SU-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.03 g
% Solids: 77.53

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	1270	-		
PCB-102	-	-	C098	98	PCB-152	9.78	-		
PCB-103	56.6	-			PCB-153	6200	-		
PCB-104	ND	0.468			PCB-154	78.9	-		
PCB-105	3330	-			PCB-155	ND	0.475		
PCB-106	8430	-	C	118	PCB-156	1030	-		
PCB-107	537	-	C	108	PCB-157	220	-		
PCB-108	-	-	C107	107	PCB-158	1010	-	C	160
PCB-109	3.40	-	J		PCB-159	57.3	-		
PCB-110	8600	-			PCB-160	-	-	C158	158
PCB-111	173	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.557			PCB-163	-	-	C138	138/164
PCB-114	242	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	39.5	-		
PCB-117	-	-	C087	87/125	PCB-167	377	-		
PCB-118	-	-	C	106	PCB-168	ND	0.389		
PCB-119	121	-			PCB-169	ND	0.438		
PCB-120	23.2	-			PCB-170	2110	-		
PCB-121	ND	0.552			PCB-171	561	-		
PCB-122	110	-			PCB-172	334	-		
PCB-123	158	-			PCB-173	49.4	-		
PCB-124	356	-			PCB-174	1740	-		
PCB-125	-	-	C087	87/117	PCB-175	81.2	-		
PCB-126	41.6	-			PCB-176	230	-		
PCB-127	ND	0.526			PCB-177	1100	-		
PCB-128	1380	-	C	162	PCB-178	321	-		
PCB-129	455	-			PCB-179	637	-		
PCB-130	573	-			PCB-180	4690	-		
PCB-131	233	-	C	133	PCB-181	ND	0.990		
PCB-132	2120	-	C	161	PCB-182	1830	-	C	187
PCB-133	-	-	C131	131	PCB-183	1040	-		
PCB-134	439	-	C	143	PCB-184	ND	0.551		
PCB-135	890	-			PCB-185	211	-		
PCB-136	1350	-			PCB-186	ND	0.603		
PCB-137	450	-			PCB-187	-	-	C182	182
PCB-138	7900	-	C	163/164	PCB-188	2.00	-	J	
PCB-139	5290	-	C	149	PCB-189	68.5	-		
PCB-140	37.1	-			PCB-190	424	-		
PCB-141	1480	-			PCB-191	91.9	-		
PCB-142	ND	0.534			PCB-192	ND	0.776		
PCB-143	-	-	C134	134	PCB-193	195	-		
PCB-144	295	-			PCB-194	655	-		
PCB-145	4.81	-			PCB-195	334	-		
PCB-146	848	-	C	165	PCB-196	782	-	C	203
PCB-147	137	-			PCB-197	28.8	-		
PCB-148	ND	0.670			PCB-198	35.4	-		
PCB-149	-	-	C139	139	PCB-199	759	-		
PCB-150	10.5	-			PCB-200	93.3	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-006-SA
Client ID: LDW-Y2-SU-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.03 g
% Solids: 77.53

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	90.6	-		
PCB-202	123	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.447		
PCB-205	34.8	-		
PCB-206	195	-		
PCB-207	27.7	-		
PCB-208	43.7	-		
PCB-209	59.2	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	89.4	5.00 - 145	
13C-PCB-3	89.4	5.00 - 145	
13C-PCB-4	81.8	5.00 - 145	
13C-PCB-15	89.0	5.00 - 145	
13C-PCB-19	87.4	5.00 - 145	
13C-PCB-37	100	5.00 - 145	
13C-PCB-54	81.9	5.00 - 145	
13C-PCB-77	93.6	10.0 - 145	
13C-PCB-81	91.0	10.0 - 145	
13C-PCB-104	86.2	10.0 - 145	
13C-PCB-105	81.5	10.0 - 145	
13C-PCB-114	78.6	10.0 - 145	
13C-PCB-118	78.4	10.0 - 145	
13C-PCB-123	74.0	10.0 - 145	
13C-PCB-126	85.6	10.0 - 145	
13C-PCB-155	78.4	10.0 - 145	
13C-PCB-156	92.4	10.0 - 145	
13C-PCB-157	93.2	10.0 - 145	
13C-PCB-167	87.7	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	70.8	10.0 - 145	
13C-PCB-189	90.6	10.0 - 145	
13C-PCB-202	86.6	10.0 - 145	
13C-PCB-205	87.3	10.0 - 145	
13C-PCB-206	80.8	10.0 - 145	
13C-PCB-208	100	10.0 - 145	
13C-PCB-209	75.4	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	84.9	5.00 - 145	
13C-PCB-111	77.4	10.0 - 145	
13C-PCB-178	76.4	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-007-SA
Client ID: LDW-Y2-IN-ENR-CA-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.08 g
% Solids: 99.89

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019
Total Conc: 5980

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	10.6	-			PCB-51	3.88	-	J	
PCB-2	3.35	-	J		PCB-52	164	-	C	69
PCB-3	10.8	-			PCB-53	8.03	-		
PCB-4	10.3	-			PCB-54	ND	0.377		
PCB-5	ND	0.852			PCB-55	4.28	-		
PCB-6	12.3	-			PCB-56	56.4	-	C	60
PCB-7	3.65	-	J		PCB-57	1.94	-	J	
PCB-8	33.5	-			PCB-58	0.846	-	J	
PCB-9	2.33	-	J		PCB-59	-	-	C042	42
PCB-10	ND	0.883			PCB-60	-	-	C056	56
PCB-11	11.4	-			PCB-61	143	-	C	70
PCB-12	3.67	-	J		PCB-62	ND	0.411		
PCB-13	4.51	-			PCB-63	4.22	-		
PCB-14	ND	0.895			PCB-64	-	-	C041	41/71/72
PCB-15	27.4	-			PCB-65	ND	0.396		
PCB-16	8.79	-			PCB-66	106	-	C	76
PCB-17	13.3	-			PCB-67	5.51	-		
PCB-18	28.2	-			PCB-68	3.22	-	J	
PCB-19	3.15	-	J		PCB-69	-	-	C052	52
PCB-20	34.3	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	19.1	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.542			PCB-73	ND	0.395		
PCB-24	2.01	-	J		PCB-74	48.4	-		
PCB-25	19.6	-			PCB-75	-	-	C048	48
PCB-26	39.8	-			PCB-76	-	-	C066	66
PCB-27	2.08	-	J		PCB-77	18.8	-		
PCB-28	60.6	-			PCB-78	1.51	-	J	
PCB-29	ND	0.543			PCB-79	4.71	-		
PCB-30	ND	0.785			PCB-80	ND	0.341		
PCB-31	64.7	-			PCB-81	7.88	-		
PCB-32	8.94	-			PCB-82	36.3	-		
PCB-33	-	-	C020	20/21	PCB-83	15.4	-	C	112
PCB-34	ND	0.620			PCB-84	124	-	C	92
PCB-35	ND	0.646			PCB-85	49.2	-	C	116
PCB-36	ND	0.569			PCB-86	ND	0.944		
PCB-37	23.5	-			PCB-87	124	-	C	117/125
PCB-38	ND	0.567			PCB-88	43.1	-	C	91
PCB-39	ND	0.583			PCB-89	2.79	-	J	
PCB-40	8.16	-			PCB-90	306	-	C	101
PCB-41	50.5	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	22.6	-	C	59	PCB-92	-	-	C084	84
PCB-43	91.7	-	C	49	PCB-93	ND	0.585		
PCB-44	80.1	-			PCB-94	1.80	-	J	
PCB-45	6.25	-			PCB-95	290	-		
PCB-46	2.58	-	J		PCB-96	1.56	-	J	
PCB-47	36.3	-			PCB-97	100	-		
PCB-48	10.5	-	C	75	PCB-98	ND	0.542	C	102
PCB-49	-	-	C043	43	PCB-99	142	-		
PCB-50	ND	0.481			PCB-100	1.87	-	J	

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EPA Method 1668
PCBs

FAL ID: 12532-007-SA
Client ID: LDW-Y2-IN-ENR-CA-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.08 g
% Solids: 99.89

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	54.1	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.302		
PCB-103	3.43	-	J		PCB-153	263	-		
PCB-104	ND	0.379			PCB-154	6.29	-		
PCB-105	147	-			PCB-155	ND	0.266		
PCB-106	371	-	C	118	PCB-156	49.6	-		
PCB-107	28.1	-	C	108	PCB-157	14.0	-		
PCB-108	-	-	C107	107	PCB-158	44.0	-	C	160
PCB-109	ND	0.720			PCB-159	3.19	-	J	
PCB-110	385	-			PCB-160	-	-	C158	158
PCB-111	6.63	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.717			PCB-163	-	-	C138	138/164
PCB-114	9.23	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	2.29	-	J	
PCB-117	-	-	C087	87/125	PCB-167	20.9	-		
PCB-118	-	-	C	106	PCB-168	ND	0.529		
PCB-119	8.52	-			PCB-169	ND	0.587		
PCB-120	ND	0.647			PCB-170	102	-		
PCB-121	ND	0.447			PCB-171	24.9	-		
PCB-122	5.98	-			PCB-172	15.6	-		
PCB-123	8.34	-			PCB-173	2.33	-	J	
PCB-124	16.9	-			PCB-174	67.6	-		
PCB-125	-	-	C087	87/117	PCB-175	3.45	-	J	
PCB-126	3.78	-	J		PCB-176	8.85	-		
PCB-127	ND	0.871			PCB-177	47.1	-		
PCB-128	74.5	-	C	162	PCB-178	14.2	-		
PCB-129	20.3	-			PCB-179	26.7	-		
PCB-130	30.7	-			PCB-180	189	-		
PCB-131	10.8	-	C	133	PCB-181	ND	0.591		
PCB-132	88.0	-	C	161	PCB-182	80.9	-	C	187
PCB-133	-	-	C131	131	PCB-183	43.7	-		
PCB-134	19.1	-	C	143	PCB-184	ND	0.329		
PCB-135	39.7	-			PCB-185	7.47	-		
PCB-136	54.3	-			PCB-186	ND	0.360		
PCB-137	21.7	-			PCB-187	-	-	C182	182
PCB-138	366	-	C	163/164	PCB-188	ND	0.416		
PCB-139	216	-	C	149	PCB-189	4.04	-		
PCB-140	2.15	-	J		PCB-190	20.6	-		
PCB-141	56.7	-			PCB-191	4.05	-		
PCB-142	ND	0.726			PCB-192	ND	0.463		
PCB-143	-	-	C134	134	PCB-193	10.6	-		
PCB-144	11.0	-			PCB-194	37.5	-		
PCB-145	ND	0.300			PCB-195	16.3	-		
PCB-146	41.8	-	C	165	PCB-196	47.1	-	C	203
PCB-147	7.19	-			PCB-197	1.60	-	J	
PCB-148	ND	0.375			PCB-198	3.03	-	J	
PCB-149	-	-	C139	139	PCB-199	46.4	-		
PCB-150	ND	0.293			PCB-200	4.77	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-007-SA
Client ID: LDW-Y2-IN-ENR-CA-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.08 g
% Solids: 99.89

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	5.12	-		
PCB-202	8.09	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.396		
PCB-205	2.04	-	J	
PCB-206	16.5	-		
PCB-207	2.35	-	J	
PCB-208	4.21	-		
PCB-209	8.12	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	104	5.00 - 145	
13C-PCB-3	103	5.00 - 145	
13C-PCB-4	95.0	5.00 - 145	
13C-PCB-15	105	5.00 - 145	
13C-PCB-19	104	5.00 - 145	
13C-PCB-37	100	5.00 - 145	
13C-PCB-54	95.6	5.00 - 145	
13C-PCB-77	106	10.0 - 145	
13C-PCB-81	102	10.0 - 145	
13C-PCB-104	87.7	10.0 - 145	
13C-PCB-105	76.1	10.0 - 145	
13C-PCB-114	71.9	10.0 - 145	
13C-PCB-118	69.7	10.0 - 145	
13C-PCB-123	67.6	10.0 - 145	
13C-PCB-126	77.8	10.0 - 145	
13C-PCB-155	92.9	10.0 - 145	
13C-PCB-156	84.3	10.0 - 145	
13C-PCB-157	89.3	10.0 - 145	
13C-PCB-167	81.0	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	65.0	10.0 - 145	
13C-PCB-189	92.3	10.0 - 145	
13C-PCB-202	81.2	10.0 - 145	
13C-PCB-205	98.6	10.0 - 145	
13C-PCB-206	93.3	10.0 - 145	
13C-PCB-208	107	10.0 - 145	
13C-PCB-209	89.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	101	5.00 - 145	
13C-PCB-111	91.3	10.0 - 145	
13C-PCB-178	68.4	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-008-SA
Client ID: LDW-Y2-IN-ENR-CB-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.08 g
% Solids: 99.79

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019
Total Conc: 5620

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	7.77	-			PCB-51	3.58	-	J	
PCB-2	2.80	-	J		PCB-52	143	-	C	69
PCB-3	8.83	-			PCB-53	8.67	-		
PCB-4	11.5	-			PCB-54	ND	0.528		
PCB-5	ND	0.769			PCB-55	4.78	-		
PCB-6	10.6	-			PCB-56	55.3	-	C	60
PCB-7	ND	0.744			PCB-57	2.16	-	J	
PCB-8	33.6	-			PCB-58	ND	0.546		
PCB-9	ND	0.759			PCB-59	-	-	C042	42
PCB-10	ND	0.797			PCB-60	-	-	C056	56
PCB-11	13.4	-			PCB-61	116	-	C	70
PCB-12	ND	0.839			PCB-62	ND	0.575		
PCB-13	ND	0.838			PCB-63	3.74	-	J	
PCB-14	ND	0.808			PCB-64	-	-	C041	41/71/72
PCB-15	26.6	-			PCB-65	ND	0.554		
PCB-16	7.75	-			PCB-66	94.5	-	C	76
PCB-17	13.8	-			PCB-67	5.01	-		
PCB-18	27.1	-			PCB-68	4.75	-		
PCB-19	2.99	-	J		PCB-69	-	-	C052	52
PCB-20	35.0	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	18.6	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.720			PCB-73	ND	0.553		
PCB-24	2.29	-	J		PCB-74	41.4	-		
PCB-25	21.1	-			PCB-75	-	-	C048	48
PCB-26	41.7	-			PCB-76	-	-	C066	66
PCB-27	1.53	-	J		PCB-77	18.2	-		
PCB-28	67.3	-			PCB-78	1.60	-	J	
PCB-29	ND	0.721			PCB-79	5.93	-		
PCB-30	ND	0.788			PCB-80	ND	0.477		
PCB-31	61.4	-			PCB-81	6.64	-		
PCB-32	9.42	-			PCB-82	33.2	-		
PCB-33	-	-	C020	20/21	PCB-83	14.3	-	C	112
PCB-34	ND	0.823			PCB-84	110	-	C	92
PCB-35	2.59	-	J		PCB-85	43.5	-	C	116
PCB-36	ND	0.756			PCB-86	ND	1.33		
PCB-37	26.5	-			PCB-87	103	-	C	117/125
PCB-38	1.57	-	J		PCB-88	36.1	-	C	91
PCB-39	ND	0.774			PCB-89	3.04	-	J	
PCB-40	8.77	-			PCB-90	264	-	C	101
PCB-41	55.5	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	26.3	-	C	59	PCB-92	-	-	C084	84
PCB-43	89.6	-	C	49	PCB-93	ND	0.780		
PCB-44	77.6	-			PCB-94	1.67	-	J	
PCB-45	6.49	-			PCB-95	228	-		
PCB-46	2.30	-	J		PCB-96	1.68	-	J	
PCB-47	36.1	-			PCB-97	93.8	-		
PCB-48	10.4	-	C	75	PCB-98	ND	0.722	C	102
PCB-49	-	-	C043	43	PCB-99	140	-		
PCB-50	ND	0.673			PCB-100	1.81	-	J	

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EPA Method 1668
PCBs

FAL ID: 12532-008-SA
Client ID: LDW-Y2-IN-ENR-CB-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.08 g
% Solids: 99.79

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	53.7	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.442		
PCB-103	3.70	-	J		PCB-153	262	-		
PCB-104	ND	0.505			PCB-154	6.94	-		
PCB-105	117	-			PCB-155	ND	0.389		
PCB-106	315	-	C	118	PCB-156	44.0	-		
PCB-107	26.0	-	C	108	PCB-157	11.7	-		
PCB-108	-	-	C107	107	PCB-158	41.1	-	C	160
PCB-109	ND	1.01			PCB-159	3.64	-	J	
PCB-110	338	-			PCB-160	-	-	C158	158
PCB-111	4.92	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.01			PCB-163	-	-	C138	138/164
PCB-114	7.28	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	2.11	-	J	
PCB-117	-	-	C087	87/125	PCB-167	20.4	-		
PCB-118	-	-	C	106	PCB-168	ND	0.698		
PCB-119	9.49	-			PCB-169	ND	0.723		
PCB-120	2.31	-	J		PCB-170	99.9	-		
PCB-121	ND	0.596			PCB-171	25.1	-		
PCB-122	4.41	-			PCB-172	16.3	-		
PCB-123	7.74	-			PCB-173	2.69	-	J	
PCB-124	13.9	-			PCB-174	78.0	-		
PCB-125	-	-	C087	87/117	PCB-175	4.02	-		
PCB-126	3.54	-	J		PCB-176	9.29	-		
PCB-127	ND	1.62			PCB-177	52.6	-		
PCB-128	65.8	-	C	162	PCB-178	17.0	-		
PCB-129	19.5	-			PCB-179	29.3	-		
PCB-130	27.6	-			PCB-180	221	-		
PCB-131	10.3	-	C	133	PCB-181	ND	0.880		
PCB-132	82.4	-	C	161	PCB-182	91.1	-	C	187
PCB-133	-	-	C131	131	PCB-183	46.5	-		
PCB-134	16.7	-	C	143	PCB-184	ND	0.490		
PCB-135	39.4	-			PCB-185	9.27	-		
PCB-136	48.8	-			PCB-186	ND	0.536		
PCB-137	18.8	-			PCB-187	-	-	C182	182
PCB-138	336	-	C	163/164	PCB-188	ND	0.641		
PCB-139	208	-	C	149	PCB-189	4.12	-		
PCB-140	3.17	-	J		PCB-190	23.7	-		
PCB-141	54.4	-			PCB-191	5.07	-		
PCB-142	ND	0.957			PCB-192	ND	0.690		
PCB-143	-	-	C134	134	PCB-193	12.3	-		
PCB-144	9.87	-			PCB-194	39.9	-		
PCB-145	ND	0.438			PCB-195	16.6	-		
PCB-146	41.4	-	C	165	PCB-196	55.3	-	C	203
PCB-147	7.02	-			PCB-197	1.91	-	J	
PCB-148	ND	0.549			PCB-198	3.00	-	J	
PCB-149	-	-	C139	139	PCB-199	48.1	-		
PCB-150	1.22	-	J		PCB-200	5.94	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-008-SA
Client ID: LDW-Y2-IN-ENR-CB-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.08 g
% Solids: 99.79

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	5.24	-		
PCB-202	9.50	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.639		
PCB-205	2.84	-	J	
PCB-206	19.6	-		
PCB-207	2.08	-	J	
PCB-208	4.91	-		
PCB-209	9.97	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	101	5.00 - 145	
13C-PCB-3	94.5	5.00 - 145	
13C-PCB-4	91.4	5.00 - 145	
13C-PCB-15	90.3	5.00 - 145	
13C-PCB-19	100	5.00 - 145	
13C-PCB-37	105	5.00 - 145	
13C-PCB-54	104	5.00 - 145	
13C-PCB-77	97.7	10.0 - 145	
13C-PCB-81	97.5	10.0 - 145	
13C-PCB-104	97.0	10.0 - 145	
13C-PCB-105	74.7	10.0 - 145	
13C-PCB-114	74.0	10.0 - 145	
13C-PCB-118	72.0	10.0 - 145	
13C-PCB-123	67.4	10.0 - 145	
13C-PCB-126	78.5	10.0 - 145	
13C-PCB-155	91.7	10.0 - 145	
13C-PCB-156	85.7	10.0 - 145	
13C-PCB-157	89.3	10.0 - 145	
13C-PCB-167	81.0	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	66.7	10.0 - 145	
13C-PCB-189	96.8	10.0 - 145	
13C-PCB-202	81.6	10.0 - 145	
13C-PCB-205	96.1	10.0 - 145	
13C-PCB-206	91.0	10.0 - 145	
13C-PCB-208	97.8	10.0 - 145	
13C-PCB-209	89.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	98.0	5.00 - 145	
13C-PCB-111	82.8	10.0 - 145	
13C-PCB-178	67.0	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-009-SA
Client ID: LDW-Y2-IN-ENR-CE-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.00 g
% Solids: 99.57

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019
Total Conc: 17500

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	177	-			PCB-51	3.79	-	J	
PCB-2	30.0	-			PCB-52	510	-	C	69
PCB-3	144	-			PCB-53	16.9	-		
PCB-4	77.8	-			PCB-54	ND	0.527		
PCB-5	ND	0.665			PCB-55	7.67	-		
PCB-6	65.7	-			PCB-56	115	-	C	60
PCB-7	28.2	-			PCB-57	2.09	-	J	
PCB-8	215	-			PCB-58	ND	0.546		
PCB-9	23.4	-			PCB-59	-	-	C042	42
PCB-10	9.77	-			PCB-60	-	-	C056	56
PCB-11	13.2	-			PCB-61	390	-	C	70
PCB-12	20.2	-			PCB-62	ND	0.574		
PCB-13	30.6	-			PCB-63	6.96	-		
PCB-14	ND	0.699			PCB-64	-	-	C041	41/71/72
PCB-15	137	-			PCB-65	ND	0.553		
PCB-16	14.3	-			PCB-66	208	-	C	76
PCB-17	21.7	-			PCB-67	5.46	-		
PCB-18	45.3	-			PCB-68	4.00	-		
PCB-19	5.35	-			PCB-69	-	-	C052	52
PCB-20	45.2	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	27.0	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.437			PCB-73	ND	0.553		
PCB-24	3.72	-	J		PCB-74	106	-		
PCB-25	20.7	-			PCB-75	-	-	C048	48
PCB-26	39.0	-			PCB-76	-	-	C066	66
PCB-27	3.26	-	J		PCB-77	52.6	-		
PCB-28	78.0	-			PCB-78	4.34	-		
PCB-29	1.34	-	J		PCB-79	14.8	-		
PCB-30	ND	1.10			PCB-80	ND	0.477		
PCB-31	78.2	-			PCB-81	27.2	-		
PCB-32	15.7	-			PCB-82	130	-		
PCB-33	-	-	C020	20/21	PCB-83	47.9	-	C	112
PCB-34	ND	0.499			PCB-84	432	-	C	92
PCB-35	7.11	-			PCB-85	164	-	C	116
PCB-36	ND	0.458			PCB-86	ND	0.933		
PCB-37	47.0	-			PCB-87	477	-	C	117/125
PCB-38	ND	0.457			PCB-88	113	-	C	91
PCB-39	ND	0.469			PCB-89	10.3	-		
PCB-40	18.6	-			PCB-90	1200	-	C	101
PCB-41	125	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	37.8	-	C	59	PCB-92	-	-	C084	84
PCB-43	195	-	C	49	PCB-93	ND	0.601		
PCB-44	252	-			PCB-94	4.08	-		
PCB-45	9.56	-			PCB-95	847	-		
PCB-46	3.87	-	J		PCB-96	4.58	-		
PCB-47	53.8	-			PCB-97	372	-		
PCB-48	17.0	-	C	75	PCB-98	ND	0.556	C	102
PCB-49	-	-	C043	43	PCB-99	478	-		
PCB-50	ND	0.672			PCB-100	3.08	-	J	

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EPA Method 1668
PCBs

FAL ID: 12532-009-SA
Client ID: LDW-Y2-IN-ENR-CE-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.00 g
% Solids: 99.57

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	149	-		
PCB-102	-	-	C098	98	PCB-152	1.70	-	J	
PCB-103	6.77	-			PCB-153	788	-		
PCB-104	ND	0.389			PCB-154	12.5	-		
PCB-105	461	-			PCB-155	ND	0.199		
PCB-106	1230	-	C	118	PCB-156	156	-		
PCB-107	84.2	-	C	108	PCB-157	40.6	-		
PCB-108	-	-	C107	107	PCB-158	153	-	C	160
PCB-109	ND	0.712			PCB-159	4.13	-		
PCB-110	1290	-			PCB-160	-	-	C158	158
PCB-111	24.2	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.709			PCB-163	-	-	C138	138/164
PCB-114	34.4	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	7.23	-		
PCB-117	-	-	C087	87/125	PCB-167	67.8	-		
PCB-118	-	-	C	106	PCB-168	ND	0.554		
PCB-119	19.5	-			PCB-169	ND	0.604		
PCB-120	ND	0.640			PCB-170	197	-		
PCB-121	ND	0.458			PCB-171	53.2	-		
PCB-122	16.4	-			PCB-172	29.7	-		
PCB-123	25.7	-			PCB-173	5.38	-		
PCB-124	58.8	-			PCB-174	141	-		
PCB-125	-	-	C087	87/117	PCB-175	6.84	-		
PCB-126	13.9	-			PCB-176	18.1	-		
PCB-127	ND	0.806			PCB-177	92.6	-		
PCB-128	228	-	C	162	PCB-178	25.0	-		
PCB-129	79.3	-			PCB-179	48.3	-		
PCB-130	87.1	-			PCB-180	329	-		
PCB-131	36.6	-	C	133	PCB-181	ND	0.685		
PCB-132	343	-	C	161	PCB-182	137	-	C	187
PCB-133	-	-	C131	131	PCB-183	83.5	-		
PCB-134	65.2	-	C	143	PCB-184	ND	0.381		
PCB-135	125	-			PCB-185	15.1	-		
PCB-136	161	-			PCB-186	ND	0.417		
PCB-137	85.8	-			PCB-187	-	-	C182	182
PCB-138	1160	-	C	163/164	PCB-188	ND	0.492		
PCB-139	673	-	C	149	PCB-189	8.25	-		
PCB-140	7.13	-			PCB-190	39.5	-		
PCB-141	189	-			PCB-191	8.44	-		
PCB-142	ND	0.760			PCB-192	ND	0.537		
PCB-143	-	-	C134	134	PCB-193	17.3	-		
PCB-144	46.4	-			PCB-194	46.9	-		
PCB-145	ND	0.224			PCB-195	20.2	-		
PCB-146	128	-	C	165	PCB-196	56.1	-	C	203
PCB-147	24.3	-			PCB-197	2.00	-	J	
PCB-148	ND	0.280			PCB-198	2.95	-	J	
PCB-149	-	-	C139	139	PCB-199	54.7	-		
PCB-150	1.88	-	J		PCB-200	6.46	-		

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EPA Method 1668
PCBs

FAL ID: 12532-009-SA
Client ID: LDW-Y2-IN-ENR-CE-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.00 g
% Solids: 99.57

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	5.93	-		
PCB-202	9.81	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.459		
PCB-205	2.90	-	J	
PCB-206	19.9	-		
PCB-207	2.34	-	J	
PCB-208	5.39	-		
PCB-209	7.77	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	109	5.00 - 145	
13C-PCB-3	111	5.00 - 145	
13C-PCB-4	99.2	5.00 - 145	
13C-PCB-15	107	5.00 - 145	
13C-PCB-19	105	5.00 - 145	
13C-PCB-37	111	5.00 - 145	
13C-PCB-54	98.9	5.00 - 145	
13C-PCB-77	107	10.0 - 145	
13C-PCB-81	106	10.0 - 145	
13C-PCB-104	94.0	10.0 - 145	
13C-PCB-105	85.0	10.0 - 145	
13C-PCB-114	82.2	10.0 - 145	
13C-PCB-118	81.1	10.0 - 145	
13C-PCB-123	77.5	10.0 - 145	
13C-PCB-126	89.2	10.0 - 145	
13C-PCB-155	94.0	10.0 - 145	
13C-PCB-156	91.5	10.0 - 145	
13C-PCB-157	91.8	10.0 - 145	
13C-PCB-167	87.4	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	75.5	10.0 - 145	
13C-PCB-189	97.4	10.0 - 145	
13C-PCB-202	85.6	10.0 - 145	
13C-PCB-205	104	10.0 - 145	
13C-PCB-206	103	10.0 - 145	
13C-PCB-208	105	10.0 - 145	
13C-PCB-209	102	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	100	5.00 - 145	
13C-PCB-111	89.3	10.0 - 145	
13C-PCB-178	72.3	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-010-SA
Client ID: LDW-Y2-IN-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.02 g
% Solids: 98.96

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019
Total Conc: 8910

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	37.5	-			PCB-51	4.17	-		
PCB-2	5.29	-			PCB-52	259	-	C	69
PCB-3	22.5	-			PCB-53	15.3	-		
PCB-4	27.0	-			PCB-54	ND	0.310		
PCB-5	ND	0.620			PCB-55	4.86	-		
PCB-6	21.5	-			PCB-56	74.4	-	C	60
PCB-7	6.05	-			PCB-57	1.94	-	J	
PCB-8	62.3	-			PCB-58	ND	0.321		
PCB-9	6.51	-			PCB-59	-	-	C042	42
PCB-10	3.00	-	J		PCB-60	-	-	C056	56
PCB-11	11.4	-			PCB-61	183	-	C	70
PCB-12	7.86	-			PCB-62	ND	0.338		
PCB-13	6.03	-			PCB-63	5.00	-		
PCB-14	ND	0.652			PCB-64	-	-	C041	41/71/72
PCB-15	30.7	-			PCB-65	ND	0.325		
PCB-16	15.3	-			PCB-66	135	-	C	76
PCB-17	25.2	-			PCB-67	5.50	-		
PCB-18	55.9	-			PCB-68	2.98	-	J	
PCB-19	6.44	-			PCB-69	-	-	C052	52
PCB-20	43.1	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	24.8	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.350			PCB-73	ND	0.325		
PCB-24	3.88	-	J		PCB-74	59.3	-		
PCB-25	20.8	-			PCB-75	-	-	C048	48
PCB-26	40.2	-			PCB-76	-	-	C066	66
PCB-27	3.38	-	J		PCB-77	20.7	-		
PCB-28	81.6	-			PCB-78	2.00	-	J	
PCB-29	ND	0.350			PCB-79	6.63	-		
PCB-30	ND	0.635			PCB-80	ND	0.280		
PCB-31	75.9	-			PCB-81	10.4	-		
PCB-32	16.3	-			PCB-82	53.7	-		
PCB-33	-	-	C020	20/21	PCB-83	21.7	-	C	112
PCB-34	ND	0.400			PCB-84	186	-	C	92
PCB-35	3.18	-	J		PCB-85	75.1	-	C	116
PCB-36	ND	0.367			PCB-86	ND	0.819		
PCB-37	29.3	-			PCB-87	178	-	C	117/125
PCB-38	ND	0.366			PCB-88	54.7	-	C	91
PCB-39	ND	0.376			PCB-89	4.50	-		
PCB-40	15.7	-			PCB-90	469	-	C	101
PCB-41	92.8	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	39.5	-	C	59	PCB-92	-	-	C084	84
PCB-43	148	-	C	49	PCB-93	ND	0.349		
PCB-44	137	-			PCB-94	1.69	-	J	
PCB-45	11.1	-			PCB-95	368	-		
PCB-46	4.32	-			PCB-96	2.30	-	J	
PCB-47	51.4	-			PCB-97	155	-		
PCB-48	16.4	-	C	75	PCB-98	ND	0.323	C	102
PCB-49	-	-	C043	43	PCB-99	227	-		
PCB-50	ND	0.395			PCB-100	2.50	-	J	

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EPA Method 1668
PCBs

FAL ID: 12532-010-SA
Client ID: LDW-Y2-IN-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.02 g
% Solids: 98.96

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	79.8	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.213		
PCB-103	4.79	-			PCB-153	393	-		
PCB-104	ND	0.226			PCB-154	9.59	-		
PCB-105	183	-			PCB-155	ND	0.188		
PCB-106	479	-	C	118	PCB-156	67.9	-		
PCB-107	36.7	-	C	108	PCB-157	20.0	-		
PCB-108	-	-	C107	107	PCB-158	67.1	-	C	160
PCB-109	ND	0.625			PCB-159	4.88	-		
PCB-110	569	-			PCB-160	-	-	C158	158
PCB-111	9.54	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.622			PCB-163	-	-	C138	138/164
PCB-114	11.5	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	2.66	-	J	
PCB-117	-	-	C087	87/125	PCB-167	29.4	-		
PCB-118	-	-	C	106	PCB-168	ND	0.524		
PCB-119	12.8	-			PCB-169	ND	0.495		
PCB-120	1.88	-	J		PCB-170	165	-		
PCB-121	ND	0.267			PCB-171	36.9	-		
PCB-122	6.96	-			PCB-172	24.7	-		
PCB-123	10.5	-			PCB-173	2.86	-	J	
PCB-124	21.3	-			PCB-174	117	-		
PCB-125	-	-	C087	87/117	PCB-175	5.34	-		
PCB-126	4.36	-			PCB-176	14.2	-		
PCB-127	ND	0.888			PCB-177	79.9	-		
PCB-128	111	-	C	162	PCB-178	24.8	-		
PCB-129	29.4	-			PCB-179	45.0	-		
PCB-130	38.9	-			PCB-180	315	-		
PCB-131	15.7	-	C	133	PCB-181	ND	0.500		
PCB-132	150	-	C	161	PCB-182	139	-	C	187
PCB-133	-	-	C131	131	PCB-183	69.9	-		
PCB-134	28.5	-	C	143	PCB-184	ND	0.279		
PCB-135	61.9	-			PCB-185	13.5	-		
PCB-136	75.7	-			PCB-186	ND	0.305		
PCB-137	36.4	-			PCB-187	-	-	C182	182
PCB-138	556	-	C	163/164	PCB-188	ND	0.388		
PCB-139	325	-	C	149	PCB-189	6.09	-		
PCB-140	4.00	-			PCB-190	34.5	-		
PCB-141	83.2	-			PCB-191	6.12	-		
PCB-142	ND	0.719			PCB-192	ND	0.392		
PCB-143	-	-	C134	134	PCB-193	16.7	-		
PCB-144	14.5	-			PCB-194	63.3	-		
PCB-145	ND	0.212			PCB-195	26.2	-		
PCB-146	64.3	-	C	165	PCB-196	83.5	-	C	203
PCB-147	11.7	-			PCB-197	2.72	-	J	
PCB-148	ND	0.265			PCB-198	4.68	-		
PCB-149	-	-	C139	139	PCB-199	84.1	-		
PCB-150	1.47	-	J		PCB-200	8.81	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-010-SA
Client ID: LDW-Y2-IN-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X4981

Date Extracted: 07-23-2019
Date Received: 07-10-2019
Amount: 5.02 g
% Solids: 98.96

ICal: DAILYFAL4-7-24-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-24-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	8.86	-		
PCB-202	14.6	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.267		
PCB-205	3.47	-	J	
PCB-206	34.4	-		
PCB-207	3.92	-	J	
PCB-208	8.56	-		
PCB-209	18.8	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	109	5.00 - 145	
13C-PCB-3	107	5.00 - 145	
13C-PCB-4	98.4	5.00 - 145	
13C-PCB-15	103	5.00 - 145	
13C-PCB-19	109	5.00 - 145	
13C-PCB-37	108	5.00 - 145	
13C-PCB-54	93.5	5.00 - 145	
13C-PCB-77	102	10.0 - 145	
13C-PCB-81	102	10.0 - 145	
13C-PCB-104	94.1	10.0 - 145	
13C-PCB-105	74.5	10.0 - 145	
13C-PCB-114	72.3	10.0 - 145	
13C-PCB-118	70.9	10.0 - 145	
13C-PCB-123	69.2	10.0 - 145	
13C-PCB-126	75.4	10.0 - 145	
13C-PCB-155	94.6	10.0 - 145	
13C-PCB-156	84.2	10.0 - 145	
13C-PCB-157	86.1	10.0 - 145	
13C-PCB-167	82.4	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	65.7	10.0 - 145	
13C-PCB-189	92.9	10.0 - 145	
13C-PCB-202	80.5	10.0 - 145	
13C-PCB-205	104	10.0 - 145	
13C-PCB-206	106	10.0 - 145	
13C-PCB-208	110	10.0 - 145	
13C-PCB-209	102	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	96.5	5.00 - 145	
13C-PCB-111	93.0	10.0 - 145	
13C-PCB-178	68.8	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: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-011-SA
Client ID: LDW-Y2-IN-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.04 g
% Solids: 97.92

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019
Total Conc: 30000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	92.2	-			PCB-51	14.9	-		
PCB-2	12.0	-			PCB-52	1020	-	C	69
PCB-3	44.3	-			PCB-53	58.5	-		
PCB-4	43.6	-			PCB-54	2.68	-	J	
PCB-5	ND	1.75			PCB-55	19.9	-		
PCB-6	66.9	-			PCB-56	246	-	C	60
PCB-7	14.0	-			PCB-57	8.41	-		
PCB-8	172	-			PCB-58	3.18	-	J	
PCB-9	17.9	-			PCB-59	-	-	C042	42
PCB-10	17.8	-			PCB-60	-	-	C056	56
PCB-11	24.2	-			PCB-61	703	-	C	70
PCB-12	19.8	-			PCB-62	ND	0.828		
PCB-13	14.3	-			PCB-63	19.4	-		
PCB-14	ND	1.84			PCB-64	-	-	C041	41/71/72
PCB-15	89.1	-			PCB-65	ND	0.873		
PCB-16	51.6	-			PCB-66	505	-	C	76
PCB-17	75.7	-			PCB-67	20.3	-		
PCB-18	168	-			PCB-68	9.00	-		
PCB-19	18.6	-			PCB-69	-	-	C052	52
PCB-20	124	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	71.4	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.619			PCB-73	ND	0.794		
PCB-24	9.19	-			PCB-74	223	-		
PCB-25	58.9	-			PCB-75	-	-	C048	48
PCB-26	114	-			PCB-76	-	-	C066	66
PCB-27	12.8	-			PCB-77	68.0	-		
PCB-28	223	-			PCB-78	10.4	-		
PCB-29	ND	0.679			PCB-79	29.6	-		
PCB-30	ND	0.669			PCB-80	ND	0.715		
PCB-31	201	-			PCB-81	45.9	-		
PCB-32	46.5	-			PCB-82	198	-		
PCB-33	-	-	C020	20/21	PCB-83	74.2	-	C	112
PCB-34	ND	0.760			PCB-84	671	-	C	92
PCB-35	9.81	-			PCB-85	242	-	C	116
PCB-36	ND	0.732			PCB-86	ND	0.897		
PCB-37	77.9	-			PCB-87	641	-	C	117/125
PCB-38	ND	0.705			PCB-88	220	-	C	91
PCB-39	ND	0.734			PCB-89	14.5	-		
PCB-40	57.2	-			PCB-90	1630	-	C	101
PCB-41	340	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	140	-	C	59	PCB-92	-	-	C084	84
PCB-43	543	-	C	49	PCB-93	ND	0.840		
PCB-44	556	-			PCB-94	7.30	-		
PCB-45	41.3	-			PCB-95	1360	-		
PCB-46	17.1	-			PCB-96	7.86	-		
PCB-47	153	-			PCB-97	545	-		
PCB-48	69.2	-	C	75	PCB-98	ND	0.948	C	102
PCB-49	-	-	C043	43	PCB-99	717	-		
PCB-50	1.79	-	J		PCB-100	8.62	-		

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EPA Method 1668
PCBs

FAL ID: 12532-011-SA
Client ID: LDW-Y2-IN-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.04 g
% Solids: 97.92

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	306	-		
PCB-102	-	-	C098	98	PCB-152	2.32	-	J	
PCB-103	15.4	-			PCB-153	1530	-		
PCB-104	ND	0.595			PCB-154	30.2	-		
PCB-105	545	-			PCB-155	ND	0.889		
PCB-106	1460	-	C	118	PCB-156	217	-		
PCB-107	109	-	C	108	PCB-157	58.6	-		
PCB-108	-	-	C107	107	PCB-158	243	-	C	160
PCB-109	ND	0.656			PCB-159	15.2	-		
PCB-110	1890	-			PCB-160	-	-	C158	158
PCB-111	34.3	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.696			PCB-163	-	-	C138	138/164
PCB-114	36.8	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	8.49	-		
PCB-117	-	-	C087	87/125	PCB-167	89.8	-		
PCB-118	-	-	C	106	PCB-168	ND	0.683		
PCB-119	40.0	-			PCB-169	ND	0.749		
PCB-120	7.14	-			PCB-170	397	-		
PCB-121	ND	0.735			PCB-171	107	-		
PCB-122	22.0	-			PCB-172	68.2	-		
PCB-123	30.7	-			PCB-173	8.67	-		
PCB-124	82.3	-			PCB-174	338	-		
PCB-125	-	-	C087	87/117	PCB-175	16.7	-		
PCB-126	15.7	-			PCB-176	45.9	-		
PCB-127	ND	0.929			PCB-177	224	-		
PCB-128	379	-	C	162	PCB-178	71.3	-		
PCB-129	122	-			PCB-179	143	-		
PCB-130	159	-			PCB-180	845	-		
PCB-131	64.2	-	C	133	PCB-181	ND	1.40		
PCB-132	545	-	C	161	PCB-182	390	-	C	187
PCB-133	-	-	C131	131	PCB-183	198	-		
PCB-134	116	-	C	143	PCB-184	ND	0.794		
PCB-135	250	-			PCB-185	39.5	-		
PCB-136	238	-			PCB-186	ND	0.873		
PCB-137	123	-			PCB-187	-	-	C182	182
PCB-138	2060	-	C	163/164	PCB-188	2.50	-	J	
PCB-139	1310	-	C	149	PCB-189	17.2	-		
PCB-140	15.3	-			PCB-190	78.9	-		
PCB-141	329	-			PCB-191	16.3	-		
PCB-142	ND	1.01			PCB-192	ND	1.05		
PCB-143	-	-	C134	134	PCB-193	41.3	-		
PCB-144	71.6	-			PCB-194	171	-		
PCB-145	ND	0.995			PCB-195	65.8	-		
PCB-146	234	-	C	165	PCB-196	210	-	C	203
PCB-147	43.7	-			PCB-197	7.80	-		
PCB-148	ND	1.48			PCB-198	9.95	-		
PCB-149	-	-	C139	139	PCB-199	192	-		
PCB-150	5.01	-			PCB-200	22.8	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-011-SA
Client ID: LDW-Y2-IN-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.04 g
% Solids: 97.92

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	25.1	-		
PCB-202	39.9	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.801		
PCB-205	10.8	-		
PCB-206	84.5	-		
PCB-207	10.7	-		
PCB-208	23.8	-		
PCB-209	83.6	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	84.7	5.00 - 145	
13C-PCB-3	75.6	5.00 - 145	
13C-PCB-4	81.2	5.00 - 145	
13C-PCB-15	93.8	5.00 - 145	
13C-PCB-19	95.3	5.00 - 145	
13C-PCB-37	97.1	5.00 - 145	
13C-PCB-54	76.1	5.00 - 145	
13C-PCB-77	86.0	10.0 - 145	
13C-PCB-81	89.4	10.0 - 145	
13C-PCB-104	86.3	10.0 - 145	
13C-PCB-105	98.7	10.0 - 145	
13C-PCB-114	99.6	10.0 - 145	
13C-PCB-118	96.5	10.0 - 145	
13C-PCB-123	93.6	10.0 - 145	
13C-PCB-126	94.0	10.0 - 145	
13C-PCB-155	91.8	10.0 - 145	
13C-PCB-156	96.4	10.0 - 145	
13C-PCB-157	97.2	10.0 - 145	
13C-PCB-167	98.3	10.0 - 145	
13C-PCB-169	96.0	10.0 - 145	
13C-PCB-188	88.5	10.0 - 145	
13C-PCB-189	105	10.0 - 145	
13C-PCB-202	94.6	10.0 - 145	
13C-PCB-205	96.6	10.0 - 145	
13C-PCB-206	86.3	10.0 - 145	
13C-PCB-208	92.0	10.0 - 145	
13C-PCB-209	83.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	107	5.00 - 145	
13C-PCB-111	100	10.0 - 145	
13C-PCB-178	102	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-012-SA
Client ID: LDW-Y2-IN-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.08 g
% Solids: 99.88

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019
Total Conc: 15000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	27.8	-			PCB-51	8.17	-		
PCB-2	3.89	-	J		PCB-52	496	-	C	69
PCB-3	12.1	-			PCB-53	29.3	-		
PCB-4	43.5	-			PCB-54	ND	0.703		
PCB-5	ND	1.03			PCB-55	9.97	-		
PCB-6	37.7	-			PCB-56	130	-	C	60
PCB-7	8.11	-			PCB-57	3.80	-	J	
PCB-8	89.0	-			PCB-58	1.81	-	J	
PCB-9	7.13	-			PCB-59	-	-	C042	42
PCB-10	ND	1.00			PCB-60	-	-	C056	56
PCB-11	11.5	-			PCB-61	330	-	C	70
PCB-12	7.76	-			PCB-62	ND	0.802		
PCB-13	9.89	-			PCB-63	9.69	-		
PCB-14	ND	1.08			PCB-64	-	-	C041	41/71/72
PCB-15	43.2	-			PCB-65	ND	0.845		
PCB-16	30.4	-			PCB-66	261	-	C	76
PCB-17	47.1	-			PCB-67	12.7	-		
PCB-18	115	-			PCB-68	4.60	-		
PCB-19	11.7	-			PCB-69	-	-	C052	52
PCB-20	81.0	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	45.5	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.575			PCB-73	ND	0.768		
PCB-24	6.47	-			PCB-74	113	-		
PCB-25	40.4	-			PCB-75	-	-	C048	48
PCB-26	84.8	-			PCB-76	-	-	C066	66
PCB-27	6.47	-			PCB-77	31.9	-		
PCB-28	139	-			PCB-78	3.92	-	J	
PCB-29	ND	0.630			PCB-79	13.8	-		
PCB-30	ND	1.32			PCB-80	ND	0.692		
PCB-31	147	-			PCB-81	20.0	-		
PCB-32	33.1	-			PCB-82	100	-		
PCB-33	-	-	C020	20/21	PCB-83	35.7	-	C	112
PCB-34	ND	0.705			PCB-84	297	-	C	92
PCB-35	4.00	-			PCB-85	118	-	C	116
PCB-36	ND	0.679			PCB-86	ND	0.847		
PCB-37	42.4	-			PCB-87	302	-	C	117/125
PCB-38	ND	0.654			PCB-88	99.1	-	C	91
PCB-39	ND	0.681			PCB-89	7.17	-		
PCB-40	29.7	-			PCB-90	754	-	C	101
PCB-41	173	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	73.4	-	C	59	PCB-92	-	-	C084	84
PCB-43	281	-	C	49	PCB-93	ND	0.693		
PCB-44	266	-			PCB-94	3.35	-	J	
PCB-45	21.9	-			PCB-95	617	-		
PCB-46	9.61	-			PCB-96	4.26	-		
PCB-47	83.7	-			PCB-97	253	-		
PCB-48	37.5	-	C	75	PCB-98	ND	0.782	C	102
PCB-49	-	-	C043	43	PCB-99	347	-		
PCB-50	ND	0.966			PCB-100	4.18	-		

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EPA Method 1668
PCBs

FAL ID: 12532-012-SA
Client ID: LDW-Y2-IN-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.08 g
% Solids: 99.88

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	139	-		
PCB-102	-	-	C098	98	PCB-152	1.15	-	J	
PCB-103	8.25	-			PCB-153	737	-		
PCB-104	ND	0.491			PCB-154	13.6	-		
PCB-105	321	-			PCB-155	ND	0.392		
PCB-106	837	-	C	118	PCB-156	124	-		
PCB-107	58.8	-	C	108	PCB-157	33.3	-		
PCB-108	-	-	C107	107	PCB-158	131	-	C	160
PCB-109	ND	0.620			PCB-159	7.51	-		
PCB-110	926	-			PCB-160	-	-	C158	158
PCB-111	15.0	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.657			PCB-163	-	-	C138	138/164
PCB-114	19.9	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	6.01	-		
PCB-117	-	-	C087	87/125	PCB-167	53.0	-		
PCB-118	-	-	C	106	PCB-168	ND	0.676		
PCB-119	20.6	-			PCB-169	ND	0.724		
PCB-120	3.22	-	J		PCB-170	194	-		
PCB-121	ND	0.606			PCB-171	56.1	-		
PCB-122	10.9	-			PCB-172	31.1	-		
PCB-123	17.1	-			PCB-173	5.02	-		
PCB-124	41.0	-			PCB-174	162	-		
PCB-125	-	-	C087	87/117	PCB-175	7.97	-		
PCB-126	7.17	-			PCB-176	21.9	-		
PCB-127	ND	0.802			PCB-177	111	-		
PCB-128	213	-	C	162	PCB-178	35.8	-		
PCB-129	64.1	-			PCB-179	64.5	-		
PCB-130	75.5	-			PCB-180	413	-		
PCB-131	32.5	-	C	133	PCB-181	ND	0.923		
PCB-132	303	-	C	161	PCB-182	182	-	C	187
PCB-133	-	-	C131	131	PCB-183	102	-		
PCB-134	59.3	-	C	143	PCB-184	ND	0.524		
PCB-135	104	-			PCB-185	19.1	-		
PCB-136	106	-			PCB-186	ND	0.577		
PCB-137	74.6	-			PCB-187	-	-	C182	182
PCB-138	1080	-	C	163/164	PCB-188	ND	0.644		
PCB-139	591	-	C	149	PCB-189	7.92	-		
PCB-140	7.47	-			PCB-190	41.3	-		
PCB-141	168	-			PCB-191	8.07	-		
PCB-142	ND	0.996			PCB-192	ND	0.692		
PCB-143	-	-	C134	134	PCB-193	21.0	-		
PCB-144	39.2	-			PCB-194	85.3	-		
PCB-145	ND	0.438			PCB-195	33.7	-		
PCB-146	114	-	C	165	PCB-196	95.7	-	C	203
PCB-147	21.1	-			PCB-197	3.63	-	J	
PCB-148	ND	0.652			PCB-198	6.29	-		
PCB-149	-	-	C139	139	PCB-199	92.6	-		
PCB-150	1.52	-	J		PCB-200	9.98	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-012-SA
Client ID: LDW-Y2-IN-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.08 g
% Solids: 99.88

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	11.1	-		
PCB-202	17.8	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.630		
PCB-205	4.55	-		
PCB-206	40.6	-		
PCB-207	5.23	-		
PCB-208	10.7	-		
PCB-209	29.7	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	86.0	5.00 - 145	
13C-PCB-3	83.4	5.00 - 145	
13C-PCB-4	87.7	5.00 - 145	
13C-PCB-15	94.6	5.00 - 145	
13C-PCB-19	89.2	5.00 - 145	
13C-PCB-37	99.6	5.00 - 145	
13C-PCB-54	82.2	5.00 - 145	
13C-PCB-77	93.7	10.0 - 145	
13C-PCB-81	97.4	10.0 - 145	
13C-PCB-104	87.0	10.0 - 145	
13C-PCB-105	98.7	10.0 - 145	
13C-PCB-114	99.0	10.0 - 145	
13C-PCB-118	97.1	10.0 - 145	
13C-PCB-123	96.0	10.0 - 145	
13C-PCB-126	99.1	10.0 - 145	
13C-PCB-155	90.0	10.0 - 145	-
13C-PCB-156	99.9	10.0 - 145	
13C-PCB-157	100	10.0 - 145	
13C-PCB-167	101	10.0 - 145	
13C-PCB-169	104	10.0 - 145	
13C-PCB-188	90.7	10.0 - 145	
13C-PCB-189	104	10.0 - 145	
13C-PCB-202	92.7	10.0 - 145	
13C-PCB-205	92.7	10.0 - 145	
13C-PCB-206	85.5	10.0 - 145	
13C-PCB-208	90.5	10.0 - 145	
13C-PCB-209	80.4	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	108	5.00 - 145	
13C-PCB-111	102	10.0 - 145	
13C-PCB-178	97.3	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-013-SA
Client ID: LDW-Y2-SC-ENR-CC-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.43 g
% Solids: 98.01

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019
Total Conc: 101000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	27.4	-			PCB-51	115	-		
PCB-2	7.36	-			PCB-52	2630	-	C	69
PCB-3	24.0	-			PCB-53	334	-		
PCB-4	163	-			PCB-54	6.47	-		
PCB-5	ND	0.727			PCB-55	83.5	-		
PCB-6	206	-			PCB-56	1720	-	C	60
PCB-7	41.1	-			PCB-57	18.4	-		
PCB-8	1020	-			PCB-58	9.41	-		
PCB-9	37.9	-			PCB-59	-	-	C042	42
PCB-10	53.7	-			PCB-60	-	-	C056	56
PCB-11	50.6	-			PCB-61	3440	-	C	70
PCB-12	66.4	-			PCB-62	ND	0.588		
PCB-13	27.1	-			PCB-63	115	-		
PCB-14	ND	0.763			PCB-64	-	-	C041	41/71/72
PCB-15	579	-			PCB-65	ND	0.620		
PCB-16	612	-			PCB-66	3010	-	C	76
PCB-17	721	-			PCB-67	120	-		
PCB-18	1690	-			PCB-68	16.6	-		
PCB-19	145	-			PCB-69	-	-	C052	52
PCB-20	1760	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	916	-			PCB-72	-	-	C041	41/64/71
PCB-23	3.86	-			PCB-73	ND	0.563		
PCB-24	80.7	-			PCB-74	1490	-		
PCB-25	301	-			PCB-75	-	-	C048	48
PCB-26	502	-			PCB-76	-	-	C066	66
PCB-27	84.9	-			PCB-77	316	-		
PCB-28	2640	-			PCB-78	12.5	-		
PCB-29	21.2	-			PCB-79	46.5	-		
PCB-30	ND	0.784			PCB-80	ND	0.508		
PCB-31	2450	-			PCB-81	76.5	-		
PCB-32	541	-			PCB-82	405	-		
PCB-33	-	-	C020	20/21	PCB-83	140	-	C	112
PCB-34	14.2	-			PCB-84	1140	-	C	92
PCB-35	54.1	-			PCB-85	477	-	C	116
PCB-36	2.92	-	J		PCB-86	ND	0.944		
PCB-37	896	-			PCB-87	1190	-	C	117/125
PCB-38	17.2	-			PCB-88	557	-	C	91
PCB-39	ND	0.949			PCB-89	37.0	-		
PCB-40	29.3	-			PCB-90	3330	-	C	101
PCB-41	1760	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	795	-	C	59	PCB-92	-	-	C084	84
PCB-43	1990	-	C	49	PCB-93	ND	0.748		
PCB-44	2050	-			PCB-94	20.8	-		
PCB-45	361	-			PCB-95	3230	-		
PCB-46	145	-			PCB-96	24.6	-		
PCB-47	684	-			PCB-97	1030	-		
PCB-48	463	-	C	75	PCB-98	ND	0.845	C	102
PCB-49	-	-	C043	43	PCB-99	1390	-		
PCB-50	7.81	-			PCB-100	33.2	-		

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EPA Method 1668
PCBs

FAL ID: 12532-013-SA
Client ID: LDW-Y2-SC-ENR-CC-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.43 g
% Solids: 98.01

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	979	-		
PCB-102	-	-	C098	98	PCB-152	5.25	-		
PCB-103	55.9	-			PCB-153	4680	-		
PCB-104	ND	0.530			PCB-154	121	-		
PCB-105	1340	-			PCB-155	ND	0.571		
PCB-106	3330	-	C	118	PCB-156	498	-		
PCB-107	224	-	C	108	PCB-157	111	-		
PCB-108	-	-	C107	107	PCB-158	506	-	C	160
PCB-109	3.33	-	J		PCB-159	72.4	-		
PCB-110	3440	-			PCB-160	-	-	C158	158
PCB-111	71.8	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.732			PCB-163	-	-	C138	138/164
PCB-114	92.4	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	16.4	-		
PCB-117	-	-	C087	87/125	PCB-167	211	-		
PCB-118	-	-	C	106	PCB-168	ND	0.655		
PCB-119	85.6	-			PCB-169	ND	0.688		
PCB-120	19.1	-			PCB-170	1720	-		
PCB-121	ND	0.655			PCB-171	487	-		
PCB-122	48.0	-			PCB-172	284	-		
PCB-123	68.6	-			PCB-173	30.5	-		
PCB-124	168	-			PCB-174	1470	-		
PCB-125	-	-	C087	87/117	PCB-175	70.1	-		
PCB-126	23.5	-			PCB-176	225	-		
PCB-127	ND	0.931			PCB-177	1030	-		
PCB-128	723	-	C	162	PCB-178	326	-		
PCB-129	197	-			PCB-179	649	-		
PCB-130	298	-			PCB-180	3910	-		
PCB-131	144	-	C	133	PCB-181	ND	0.918		
PCB-132	1270	-	C	161	PCB-182	2000	-	C	187
PCB-133	-	-	C131	131	PCB-183	1020	-		
PCB-134	248	-	C	143	PCB-184	ND	0.521		
PCB-135	559	-			PCB-185	196	-		
PCB-136	665	-			PCB-186	ND	0.573		
PCB-137	217	-			PCB-187	-	-	C182	182
PCB-138	4960	-	C	163/164	PCB-188	4.14	-		
PCB-139	3740	-	C	149	PCB-189	66.9	-		
PCB-140	39.7	-			PCB-190	353	-		
PCB-141	832	-			PCB-191	72.3	-		
PCB-142	ND	0.965			PCB-192	ND	0.688		
PCB-143	-	-	C134	134	PCB-193	202	-		
PCB-144	219	-			PCB-194	901	-		
PCB-145	1.75	-	J		PCB-195	402	-		
PCB-146	642	-	C	165	PCB-196	1020	-	C	203
PCB-147	85.9	-			PCB-197	36.5	-		
PCB-148	ND	0.950			PCB-198	48.9	-		
PCB-149	-	-	C139	139	PCB-199	918	-		
PCB-150	15.7	-			PCB-200	112	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-013-SA
Client ID: LDW-Y2-SC-ENR-CC-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.43 g
% Solids: 98.01

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	125	-		
PCB-202	196	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.872		
PCB-205	47.8	-		
PCB-206	491	-		
PCB-207	62.7	-		
PCB-208	143	-		
PCB-209	452	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	80.4	5.00 - 145	
13C-PCB-3	87.1	5.00 - 145	
13C-PCB-4	84.4	5.00 - 145	
13C-PCB-15	109	5.00 - 145	
13C-PCB-19	90.3	5.00 - 145	
13C-PCB-37	101	5.00 - 145	
13C-PCB-54	84.5	5.00 - 145	
13C-PCB-77	104	10.0 - 145	
13C-PCB-81	108	10.0 - 145	
13C-PCB-104	83.7	10.0 - 145	
13C-PCB-105	100	10.0 - 145	
13C-PCB-114	105	10.0 - 145	
13C-PCB-118	97.4	10.0 - 145	
13C-PCB-123	102	10.0 - 145	
13C-PCB-126	110	10.0 - 145	
13C-PCB-155	85.1	10.0 - 145	
13C-PCB-156	102	10.0 - 145	
13C-PCB-157	103	10.0 - 145	
13C-PCB-167	98.7	10.0 - 145	
13C-PCB-169	103	10.0 - 145	
13C-PCB-188	90.6	10.0 - 145	
13C-PCB-189	97.7	10.0 - 145	
13C-PCB-202	92.4	10.0 - 145	
13C-PCB-205	92.9	10.0 - 145	
13C-PCB-206	81.2	10.0 - 145	
13C-PCB-208	95.7	10.0 - 145	
13C-PCB-209	72.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	106	5.00 - 145	
13C-PCB-111	94.1	10.0 - 145	
13C-PCB-178	94.2	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-014-SA
Client ID: LDW-Y2-SC-ENR-CD-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.04 g
% Solids: 98.10

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019
Total Conc: 71300

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	22.3	-			PCB-51	79.5	-		
PCB-2	6.12	-			PCB-52	1890	-	C	69
PCB-3	21.0	-			PCB-53	237	-		
PCB-4	234	-			PCB-54	4.46	-		
PCB-5	ND	0.664			PCB-55	57.9	-		
PCB-6	206	-			PCB-56	1160	-	C	60
PCB-7	44.7	-			PCB-57	14.8	-		
PCB-8	1100	-			PCB-58	6.49	-		
PCB-9	48.7	-			PCB-59	-	-	C042	42
PCB-10	30.2	-			PCB-60	-	-	C056	56
PCB-11	33.6	-			PCB-61	2410	-	C	70
PCB-12	37.4	-			PCB-62	ND	0.572		
PCB-13	38.8	-			PCB-63	81.4	-		
PCB-14	ND	0.697			PCB-64	-	-	C041	41/71/72
PCB-15	487	-			PCB-65	ND	0.603		
PCB-16	341	-			PCB-66	2070	-	C	76
PCB-17	633	-			PCB-67	84.0	-		
PCB-18	1450	-			PCB-68	12.9	-		
PCB-19	129	-			PCB-69	-	-	C052	52
PCB-20	1170	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	591	-			PCB-72	-	-	C041	41/64/71
PCB-23	2.69	-	J		PCB-73	ND	0.548		
PCB-24	76.8	-			PCB-74	1010	-		
PCB-25	192	-			PCB-75	-	-	C048	48
PCB-26	331	-			PCB-76	-	-	C066	66
PCB-27	58.2	-			PCB-77	213	-		
PCB-28	1790	-			PCB-78	10.3	-		
PCB-29	13.4	-			PCB-79	38.2	-		
PCB-30	ND	0.603			PCB-80	ND	0.494		
PCB-31	1520	-			PCB-81	56.4	-		
PCB-32	609	-			PCB-82	273	-		
PCB-33	-	-	C020	20/21	PCB-83	97.1	-	C	112
PCB-34	9.37	-			PCB-84	820	-	C	92
PCB-35	35.9	-			PCB-85	331	-	C	116
PCB-36	ND	0.661			PCB-86	ND	0.884		
PCB-37	574	-			PCB-87	812	-	C	117/125
PCB-38	10.3	-			PCB-88	393	-	C	91
PCB-39	ND	0.662			PCB-89	33.6	-		
PCB-40	256	-			PCB-90	2350	-	C	101
PCB-41	1250	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	554	-	C	59	PCB-92	-	-	C084	84
PCB-43	1410	-	C	49	PCB-93	ND	0.682		
PCB-44	1470	-			PCB-94	14.5	-		
PCB-45	254	-			PCB-95	2180	-		
PCB-46	105	-			PCB-96	16.7	-		
PCB-47	474	-			PCB-97	706	-		
PCB-48	338	-	C	75	PCB-98	ND	0.769	C	102
PCB-49	-	-	C043	43	PCB-99	993	-		
PCB-50	5.70	-			PCB-100	22.8	-		

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EPA Method 1668
PCBs

FAL ID: 12532-014-SA
Client ID: LDW-Y2-SC-ENR-CD-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.04 g
% Solids: 98.10

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	711	-		
PCB-102	-	-	C098	98	PCB-152	3.77	-	J	
PCB-103	42.5	-			PCB-153	3110	-		
PCB-104	ND	0.483			PCB-154	82.9	-		
PCB-105	939	-			PCB-155	ND	0.572		
PCB-106	2390	-	C	118	PCB-156	337	-		
PCB-107	158	-	C	108	PCB-157	76.5	-		
PCB-108	-	-	C107	107	PCB-158	350	-	C	160
PCB-109	1.71	-	J		PCB-159	48.8	-		
PCB-110	2330	-			PCB-160	-	-	C158	158
PCB-111	44.8	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.686			PCB-163	-	-	C138	138/164
PCB-114	60.1	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	11.6	-		
PCB-117	-	-	C087	87/125	PCB-167	148	-		
PCB-118	-	-	C	106	PCB-168	ND	0.475		
PCB-119	61.9	-			PCB-169	ND	0.484		
PCB-120	10.8	-			PCB-170	1180	-		
PCB-121	ND	0.596			PCB-171	354	-		
PCB-122	31.5	-			PCB-172	201	-		
PCB-123	52.0	-			PCB-173	27.2	-		
PCB-124	113	-			PCB-174	1090	-		
PCB-125	-	-	C087	87/117	PCB-175	53.4	-		
PCB-126	16.1	-			PCB-176	165	-		
PCB-127	ND	0.596			PCB-177	750	-		
PCB-128	508	-	C	162	PCB-178	243	-		
PCB-129	137	-			PCB-179	476	-		
PCB-130	199	-			PCB-180	2810	-		
PCB-131	102	-	C	133	PCB-181	ND	0.835		
PCB-132	893	-	C	161	PCB-182	1490	-	C	187
PCB-133	-	-	C131	131	PCB-183	750	-		
PCB-134	175	-	C	143	PCB-184	1.39	-	J	
PCB-135	369	-			PCB-185	140	-		
PCB-136	491	-			PCB-186	ND	0.522		
PCB-137	153	-			PCB-187	-	-	C182	182
PCB-138	3520	-	C	163/164	PCB-188	2.98	-	J	
PCB-139	2560	-	C	149	PCB-189	45.0	-		
PCB-140	25.9	-			PCB-190	249	-		
PCB-141	578	-			PCB-191	49.0	-		
PCB-142	ND	0.700			PCB-192	ND	0.626		
PCB-143	-	-	C134	134	PCB-193	138	-		
PCB-144	170	-			PCB-194	590	-		
PCB-145	1.40	-	J		PCB-195	281	-		
PCB-146	446	-	C	165	PCB-196	675	-	C	203
PCB-147	54.3	-			PCB-197	26.4	-		
PCB-148	ND	0.952			PCB-198	39.8	-		
PCB-149	-	-	C139	139	PCB-199	620	-		
PCB-150	12.3	-			PCB-200	81.2	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-014-SA	Date Extracted: 07-24-2019	ICal: DAILY209FAL4-7-25-19	Acquired: 07-25-2019
Client ID: LDW-Y2-SC-ENR-CD-CORE	Date Received: 07-10-2019	GC Column: DB1MS	
Matrix: Sediment	Amount: 5.04 g	Units: pg/g	
Batch No: X4984	% Solids: 98.10		Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	90.7	-		
PCB-202	138	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.823		
PCB-205	32.0	-		
PCB-206	294	-		
PCB-207	39.8	-		
PCB-208	87.0	-		
PCB-209	118	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	85.6	5.00 - 145	
13C-PCB-3	86.9	5.00 - 145	
13C-PCB-4	87.9	5.00 - 145	
13C-PCB-15	112	5.00 - 145	
13C-PCB-19	88.0	5.00 - 145	
13C-PCB-37	112	5.00 - 145	
13C-PCB-54	83.7	5.00 - 145	
13C-PCB-77	107	10.0 - 145	
13C-PCB-81	106	10.0 - 145	
13C-PCB-104	86.7	10.0 - 145	
13C-PCB-105	104	10.0 - 145	
13C-PCB-114	104	10.0 - 145	
13C-PCB-118	98.0	10.0 - 145	
13C-PCB-123	102	10.0 - 145	
13C-PCB-126	110	10.0 - 145	
13C-PCB-155	83.3	10.0 - 145	
13C-PCB-156	103	10.0 - 145	
13C-PCB-157	104	10.0 - 145	
13C-PCB-167	101	10.0 - 145	
13C-PCB-169	102	10.0 - 145	
13C-PCB-188	90.8	10.0 - 145	
13C-PCB-189	92.0	10.0 - 145	
13C-PCB-202	93.2	10.0 - 145	
13C-PCB-205	101	10.0 - 145	
13C-PCB-206	84.9	10.0 - 145	
13C-PCB-208	95.6	10.0 - 145	
13C-PCB-209	76.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	112	5.00 - 145	
13C-PCB-111	96.4	10.0 - 145	
13C-PCB-178	97.2	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-015-SA
Client ID: LDW-Y2-SC-ENR-CE-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.01 g
% Solids: 98.45

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019
Total Conc: 94000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	29.0	-			PCB-51	106	-		
PCB-2	7.82	-			PCB-52	2540	-	C	69
PCB-3	24.9	-			PCB-53	300	-		
PCB-4	199	-			PCB-54	5.63	-		
PCB-5	ND	1.09			PCB-55	78.2	-		
PCB-6	185	-			PCB-56	1510	-	C	60
PCB-7	37.2	-			PCB-57	17.9	-		
PCB-8	893	-			PCB-58	9.27	-		
PCB-9	38.5	-			PCB-59	-	-	C042	42
PCB-10	30.8	-			PCB-60	-	-	C056	56
PCB-11	50.1	-			PCB-61	3120	-	C	70
PCB-12	43.1	-			PCB-62	ND	0.878		
PCB-13	45.4	-			PCB-63	104	-		
PCB-14	ND	1.15			PCB-64	-	-	C041	41/71/72
PCB-15	477	-			PCB-65	ND	0.925		
PCB-16	451	-			PCB-66	2700	-	C	76
PCB-17	639	-			PCB-67	104	-		
PCB-18	1450	-			PCB-68	17.8	-		
PCB-19	125	-			PCB-69	-	-	C052	52
PCB-20	1290	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	653	-			PCB-72	-	-	C041	41/64/71
PCB-23	3.41	-	J		PCB-73	ND	0.841		
PCB-24	70.2	-			PCB-74	1280	-		
PCB-25	231	-			PCB-75	-	-	C048	48
PCB-26	383	-			PCB-76	-	-	C066	66
PCB-27	76.6	-			PCB-77	271	-		
PCB-28	1980	-			PCB-78	12.4	-		
PCB-29	15.5	-			PCB-79	52.5	-		
PCB-30	ND	0.896			PCB-80	ND	0.758		
PCB-31	1670	-			PCB-81	80.1	-		
PCB-32	517	-			PCB-82	375	-		
PCB-33	-	-	C020	20/21	PCB-83	125	-	C	112
PCB-34	11.2	-			PCB-84	1120	-	C	92
PCB-35	39.2	-			PCB-85	450	-	C	116
PCB-36	ND	0.864			PCB-86	ND	1.21		
PCB-37	671	-			PCB-87	1090	-	C	117/125
PCB-38	17.1	-			PCB-88	498	-	C	91
PCB-39	ND	0.866			PCB-89	39.0	-		
PCB-40	341	-			PCB-90	3190	-	C	101
PCB-41	1660	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	721	-	C	59	PCB-92	-	-	C084	84
PCB-43	1870	-	C	49	PCB-93	ND	1.13		
PCB-44	1890	-			PCB-94	20.2	-		
PCB-45	329	-			PCB-95	2970	-		
PCB-46	133	-			PCB-96	24.3	-		
PCB-47	625	-			PCB-97	942	-		
PCB-48	430	-	C	75	PCB-98	ND	1.27	C	102
PCB-49	-	-	C043	43	PCB-99	1330	-		
PCB-50	8.33	-			PCB-100	32.1	-		

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EPA Method 1668
PCBs

FAL ID: 12532-015-SA
Client ID: LDW-Y2-SC-ENR-CE-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.01 g
% Solids: 98.45

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	971	-		
PCB-102	-	-	C098	98	PCB-152	5.49	-		
PCB-103	59.8	-			PCB-153	4520	-		
PCB-104	ND	0.799			PCB-154	129	-		
PCB-105	1190	-			PCB-155	ND	0.914		
PCB-106	3160	-	C	118	PCB-156	476	-		
PCB-107	213	-	C	108	PCB-157	107	-		
PCB-108	-	-	C107	107	PCB-158	491	-	C	160
PCB-109	1.87	-	J		PCB-159	72.7	-		
PCB-110	3240	-			PCB-160	-	-	C158	158
PCB-111	62.4	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.937			PCB-163	-	-	C138	138/164
PCB-114	90.5	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	15.4	-		
PCB-117	-	-	C087	87/125	PCB-167	207	-		
PCB-118	-	-	C	106	PCB-168	ND	0.636		
PCB-119	77.5	-			PCB-169	ND	0.648		
PCB-120	19.2	-			PCB-170	1750	-		
PCB-121	ND	0.986			PCB-171	501	-		
PCB-122	46.0	-			PCB-172	303	-		
PCB-123	69.3	-			PCB-173	35.0	-		
PCB-124	151	-			PCB-174	1540	-		
PCB-125	-	-	C087	87/117	PCB-175	80.4	-		
PCB-126	22.3	-			PCB-176	236	-		
PCB-127	ND	1.13			PCB-177	1050	-		
PCB-128	698	-	C	162	PCB-178	357	-		
PCB-129	196	-			PCB-179	673	-		
PCB-130	281	-			PCB-180	4030	-		
PCB-131	141	-	C	133	PCB-181	ND	1.14		
PCB-132	1250	-	C	161	PCB-182	2090	-	C	187
PCB-133	-	-	C131	131	PCB-183	1070	-		
PCB-134	240	-	C	143	PCB-184	2.33	-	J	
PCB-135	521	-			PCB-185	191	-		
PCB-136	737	-			PCB-186	ND	0.711		
PCB-137	212	-			PCB-187	-	-	C182	182
PCB-138	4880	-	C	163/164	PCB-188	4.55	-		
PCB-139	3590	-	C	149	PCB-189	67.2	-		
PCB-140	36.7	-			PCB-190	367	-		
PCB-141	841	-			PCB-191	74.8	-		
PCB-142	ND	0.938			PCB-192	ND	0.854		
PCB-143	-	-	C134	134	PCB-193	210	-		
PCB-144	238	-			PCB-194	871	-		
PCB-145	1.81	-	J		PCB-195	383	-		
PCB-146	631	-	C	165	PCB-196	1010	-	C	203
PCB-147	77.8	-			PCB-197	38.5	-		
PCB-148	ND	1.52			PCB-198	54.3	-		
PCB-149	-	-	C139	139	PCB-199	899	-		
PCB-150	19.2	-			PCB-200	110	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-015-SA
Client ID: LDW-Y2-SC-ENR-CE-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.01 g
% Solids: 98.45

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	134	-		
PCB-202	199	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.940		
PCB-205	48.0	-		
PCB-206	415	-		
PCB-207	49.9	-		
PCB-208	110	-		
PCB-209	151	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	79.0	5.00 - 145	
13C-PCB-3	80.9	5.00 - 145	
13C-PCB-4	83.0	5.00 - 145	
13C-PCB-15	106	5.00 - 145	
13C-PCB-19	86.0	5.00 - 145	
13C-PCB-37	104	5.00 - 145	
13C-PCB-54	79.5	5.00 - 145	
13C-PCB-77	103	10.0 - 145	
13C-PCB-81	100	10.0 - 145	
13C-PCB-104	81.9	10.0 - 145	
13C-PCB-105	99.8	10.0 - 145	
13C-PCB-114	98.8	10.0 - 145	
13C-PCB-118	95.5	10.0 - 145	
13C-PCB-123	99.3	10.0 - 145	
13C-PCB-126	101	10.0 - 145	
13C-PCB-155	75.7	10.0 - 145	
13C-PCB-156	99.1	10.0 - 145	
13C-PCB-157	102	10.0 - 145	
13C-PCB-167	99.7	10.0 - 145	
13C-PCB-169	98.9	10.0 - 145	
13C-PCB-188	85.1	10.0 - 145	
13C-PCB-189	89.4	10.0 - 145	
13C-PCB-202	89.2	10.0 - 145	
13C-PCB-205	91.9	10.0 - 145	
13C-PCB-206	82.8	10.0 - 145	
13C-PCB-208	95.0	10.0 - 145	
13C-PCB-209	71.5	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	100	5.00 - 145	
13C-PCB-111	91.6	10.0 - 145	
13C-PCB-178	90.7	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-016-SA
Client ID: LDW-Y2-SC-ENR+AC-CAD-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.05 g
% Solids: 100.00

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019
Total Conc: 52500

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	25.1	-			PCB-51	62.4	-		
PCB-2	5.75	-			PCB-52	1410	-	C	69
PCB-3	15.8	-			PCB-53	176	-		
PCB-4	224	-			PCB-54	4.11	-		
PCB-5	ND	0.812			PCB-55	37.1	-		
PCB-6	160	-			PCB-56	972	-	C	60
PCB-7	38.8	-			PCB-57	10.2	-		
PCB-8	808	-			PCB-58	4.70	-		
PCB-9	37.1	-			PCB-59	-	-	C042	42
PCB-10	28.0	-			PCB-60	-	-	C056	56
PCB-11	24.6	-			PCB-61	1540	-	C	70
PCB-12	22.4	-			PCB-62	ND	0.681		
PCB-13	24.2	-			PCB-63	54.9	-		
PCB-14	ND	0.852			PCB-64	-	-	C041	41/71/72
PCB-15	250	-			PCB-65	ND	0.718		
PCB-16	377	-			PCB-66	1340	-	C	76
PCB-17	479	-			PCB-67	54.6	-		
PCB-18	1100	-			PCB-68	8.73	-		
PCB-19	107	-			PCB-69	-	-	C052	52
PCB-20	1050	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	569	-			PCB-72	-	-	C041	41/64/71
PCB-23	3.62	-	J		PCB-73	ND	0.653		
PCB-24	51.1	-			PCB-74	649	-		
PCB-25	193	-			PCB-75	-	-	C048	48
PCB-26	321	-			PCB-76	-	-	C066	66
PCB-27	57.0	-			PCB-77	113	-		
PCB-28	1580	-			PCB-78	8.28	-		
PCB-29	14.6	-			PCB-79	35.5	-		
PCB-30	ND	0.920			PCB-80	ND	0.594		
PCB-31	1700	-			PCB-81	49.0	-		
PCB-32	348	-			PCB-82	202	-		
PCB-33	-	-	C020	20/21	PCB-83	70.4	-	C	112
PCB-34	10.7	-			PCB-84	624	-	C	92
PCB-35	21.9	-			PCB-85	239	-	C	116
PCB-36	ND	0.996			PCB-86	11.2	-		
PCB-37	300	-			PCB-87	600	-	C	117/125
PCB-38	12.9	-			PCB-88	271	-	C	91
PCB-39	ND	0.998			PCB-89	22.5	-		
PCB-40	187	-			PCB-90	1790	-	C	101
PCB-41	907	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	410	-	C	59	PCB-92	-	-	C084	84
PCB-43	1060	-	C	49	PCB-93	ND	0.878		
PCB-44	1060	-			PCB-94	11.8	-		
PCB-45	189	-			PCB-95	1630	-		
PCB-46	77.9	-			PCB-96	12.7	-		
PCB-47	358	-			PCB-97	528	-		
PCB-48	258	-	C	75	PCB-98	ND	0.991	C	102
PCB-49	-	-	C043	43	PCB-99	766	-		
PCB-50	4.92	-			PCB-100	18.3	-		

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EPA Method 1668
PCBs

FAL ID: 12532-016-SA
Client ID: LDW-Y2-SC-ENR+AC-CAD-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.05 g
% Solids: 100.00

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	547	-		
PCB-102	-	-	C098	98	PCB-152	2.56	-	J	
PCB-103	32.4	-			PCB-153	2380	-		
PCB-104	ND	0.622			PCB-154	61.0	-		
PCB-105	584	-			PCB-155	ND	0.579		
PCB-106	1430	-	C	118	PCB-156	222	-		
PCB-107	106	-	C	108	PCB-157	47.8	-		
PCB-108	-	-	C107	107	PCB-158	265	-	C	160
PCB-109	ND	0.838			PCB-159	36.6	-		
PCB-110	1700	-			PCB-160	-	-	C158	158
PCB-111	43.7	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.888			PCB-163	-	-	C138	138/164
PCB-114	44.6	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	8.41	-		
PCB-117	-	-	C087	87/125	PCB-167	92.5	-		
PCB-118	-	-	C	106	PCB-168	ND	0.662		
PCB-119	45.7	-			PCB-169	ND	0.780		
PCB-120	10.5	-			PCB-170	819	-		
PCB-121	ND	0.768			PCB-171	237	-		
PCB-122	21.4	-			PCB-172	144	-		
PCB-123	32.5	-			PCB-173	14.2	-		
PCB-124	78.3	-			PCB-174	749	-		
PCB-125	-	-	C087	87/117	PCB-175	35.9	-		
PCB-126	11.5	-			PCB-176	114	-		
PCB-127	ND	0.962			PCB-177	506	-		
PCB-128	362	-	C	162	PCB-178	168	-		
PCB-129	104	-			PCB-179	328	-		
PCB-130	147	-			PCB-180	1920	-		
PCB-131	71.3	-	C	133	PCB-181	ND	0.967		
PCB-132	651	-	C	161	PCB-182	994	-	C	187
PCB-133	-	-	C131	131	PCB-183	503	-		
PCB-134	126	-	C	143	PCB-184	ND	0.550		
PCB-135	295	-			PCB-185	95.3	-		
PCB-136	349	-			PCB-186	ND	0.604		
PCB-137	114	-			PCB-187	-	-	C182	182
PCB-138	2550	-	C	163/164	PCB-188	2.03	-	J	
PCB-139	1960	-	C	149	PCB-189	29.4	-		
PCB-140	17.8	-			PCB-190	176	-		
PCB-141	447	-			PCB-191	34.0	-		
PCB-142	ND	0.975			PCB-192	ND	0.725		
PCB-143	-	-	C134	134	PCB-193	100	-		
PCB-144	138	-			PCB-194	405	-		
PCB-145	ND	0.648			PCB-195	191	-		
PCB-146	332	-	C	165	PCB-196	503	-	C	203
PCB-147	43.8	-			PCB-197	19.0	-		
PCB-148	ND	0.964			PCB-198	20.0	-		
PCB-149	-	-	C139	139	PCB-199	452	-		
PCB-150	8.57	-			PCB-200	53.1	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-016-SA
Client ID: LDW-Y2-SC-ENR+AC-CAD-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.05 g
% Solids: 100.00

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	59.8	-		
PCB-202	90.7	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.957		
PCB-205	23.0	-		
PCB-206	202	-		
PCB-207	26.2	-		
PCB-208	55.3	-		
PCB-209	104	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	81.8	5.00 - 145	
13C-PCB-3	69.3	5.00 - 145	
13C-PCB-4	85.6	5.00 - 145	
13C-PCB-15	78.3	5.00 - 145	
13C-PCB-19	80.5	5.00 - 145	
13C-PCB-37	76.4	5.00 - 145	
13C-PCB-54	84.7	5.00 - 145	
13C-PCB-77	76.5	10.0 - 145	
13C-PCB-81	80.6	10.0 - 145	
13C-PCB-104	83.6	10.0 - 145	
13C-PCB-105	93.4	10.0 - 145	
13C-PCB-114	95.2	10.0 - 145	
13C-PCB-118	88.5	10.0 - 145	
13C-PCB-123	91.6	10.0 - 145	
13C-PCB-126	80.7	10.0 - 145	
13C-PCB-155	80.5	10.0 - 145	
13C-PCB-156	95.2	10.0 - 145	
13C-PCB-157	97.6	10.0 - 145	
13C-PCB-167	92.6	10.0 - 145	
13C-PCB-169	81.8	10.0 - 145	
13C-PCB-188	85.8	10.0 - 145	
13C-PCB-189	87.0	10.0 - 145	
13C-PCB-202	83.8	10.0 - 145	
13C-PCB-205	97.0	10.0 - 145	
13C-PCB-206	86.4	10.0 - 145	
13C-PCB-208	97.7	10.0 - 145	
13C-PCB-209	76.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	106	5.00 - 145	
13C-PCB-111	97.5	10.0 - 145	
13C-PCB-178	92.1	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-017-SA
Client ID: LDW-Y2-SC-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.04 g
% Solids: 99.49

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019
Total Conc: 49900

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	19.5	-			PCB-51	66.7	-		
PCB-2	3.61	-	J		PCB-52	1440	-	C	69
PCB-3	12.2	-			PCB-53	191	-		
PCB-4	153	-			PCB-54	3.02	-	J	
PCB-5	ND	0.798			PCB-55	42.3	-		
PCB-6	132	-			PCB-56	960	-	C	60
PCB-7	24.6	-			PCB-57	10.0	-		
PCB-8	669	-			PCB-58	4.33	-		
PCB-9	29.8	-			PCB-59	-	-	C042	42
PCB-10	12.2	-			PCB-60	-	-	C056	56
PCB-11	21.4	-			PCB-61	1640	-	C	70
PCB-12	16.2	-			PCB-62	ND	0.888		
PCB-13	22.4	-			PCB-63	57.8	-		
PCB-14	ND	0.838			PCB-64	-	-	C041	41/71/72
PCB-15	253	-			PCB-65	ND	0.936		
PCB-16	362	-			PCB-66	1420	-	C	76
PCB-17	499	-			PCB-67	59.6	-		
PCB-18	1160	-			PCB-68	9.18	-		
PCB-19	102	-			PCB-69	-	-	C052	52
PCB-20	1120	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	575	-			PCB-72	-	-	C041	41/64/71
PCB-23	3.01	-	J		PCB-73	ND	0.851		
PCB-24	62.1	-			PCB-74	688	-		
PCB-25	185	-			PCB-75	-	-	C048	48
PCB-26	316	-			PCB-76	-	-	C066	66
PCB-27	43.6	-			PCB-77	124	-		
PCB-28	1570	-			PCB-78	8.32	-		
PCB-29	15.4	-			PCB-79	28.3	-		
PCB-30	ND	0.584			PCB-80	ND	0.767		
PCB-31	1600	-			PCB-81	42.4	-		
PCB-32	396	-			PCB-82	202	-		
PCB-33	-	-	C020	20/21	PCB-83	70.5	-	C	112
PCB-34	9.90	-			PCB-84	622	-	C	92
PCB-35	21.8	-			PCB-85	235	-	C	116
PCB-36	ND	0.701			PCB-86	13.3	-		
PCB-37	344	-			PCB-87	599	-	C	117/125
PCB-38	11.6	-			PCB-88	269	-	C	91
PCB-39	ND	0.702			PCB-89	22.0	-		
PCB-40	197	-			PCB-90	1740	-	C	101
PCB-41	942	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	421	-	C	59	PCB-92	-	-	C084	84
PCB-43	1060	-	C	49	PCB-93	ND	0.598		
PCB-44	1090	-			PCB-94	10.6	-		
PCB-45	205	-			PCB-95	1580	-		
PCB-46	81.1	-			PCB-96	13.2	-		
PCB-47	384	-			PCB-97	518	-		
PCB-48	253	-	C	75	PCB-98	ND	0.674	C	102
PCB-49	-	-	C043	43	PCB-99	723	-		
PCB-50	2.38	-	J		PCB-100	14.5	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-017-SA
Client ID: LDW-Y2-SC-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.04 g
% Solids: 99.49

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	453	-		
PCB-102	-	-	C098	98	PCB-152	2.61	-	J	
PCB-103	29.8	-			PCB-153	2080	-		
PCB-104	ND	0.423			PCB-154	52.3	-		
PCB-105	575	-			PCB-155	ND	0.375		
PCB-106	1420	-	C	118	PCB-156	211	-		
PCB-107	101	-	C	108	PCB-157	47.6	-		
PCB-108	-	-	C107	107	PCB-158	237	-	C	160
PCB-109	ND	0.536			PCB-159	30.6	-		
PCB-110	1680	-			PCB-160	-	-	C158	158
PCB-111	35.6	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.569			PCB-163	-	-	C138	138/164
PCB-114	40.4	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	8.00	-		
PCB-117	-	-	C087	87/125	PCB-167	87.0	-		
PCB-118	-	-	C	106	PCB-168	ND	0.679		
PCB-119	43.1	-			PCB-169	ND	0.779		
PCB-120	8.63	-			PCB-170	750	-		
PCB-121	ND	0.523			PCB-171	212	-		
PCB-122	19.3	-			PCB-172	125	-		
PCB-123	30.9	-			PCB-173	16.2	-		
PCB-124	78.5	-			PCB-174	658	-		
PCB-125	-	-	C087	87/117	PCB-175	30.0	-		
PCB-126	10.8	-			PCB-176	96.7	-		
PCB-127	ND	0.710			PCB-177	438	-		
PCB-128	332	-	C	162	PCB-178	150	-		
PCB-129	97.5	-			PCB-179	283	-		
PCB-130	137	-			PCB-180	1730	-		
PCB-131	65.5	-	C	133	PCB-181	ND	0.788		
PCB-132	563	-	C	161	PCB-182	883	-	C	187
PCB-133	-	-	C131	131	PCB-183	455	-		
PCB-134	116	-	C	143	PCB-184	ND	0.448		
PCB-135	271	-			PCB-185	84.0	-		
PCB-136	311	-			PCB-186	ND	0.492		
PCB-137	101	-			PCB-187	-	-	C182	182
PCB-138	2230	-	C	163/164	PCB-188	1.77	-	J	
PCB-139	1680	-	C	149	PCB-189	28.6	-		
PCB-140	18.5	-			PCB-190	153	-		
PCB-141	385	-			PCB-191	31.0	-		
PCB-142	ND	1.00			PCB-192	ND	0.591		
PCB-143	-	-	C134	134	PCB-193	86.6	-		
PCB-144	98.0	-			PCB-194	363	-		
PCB-145	1.27	-	J		PCB-195	165	-		
PCB-146	287	-	C	165	PCB-196	402	-	C	203
PCB-147	39.8	-			PCB-197	15.2	-		
PCB-148	ND	0.624			PCB-198	21.7	-		
PCB-149	-	-	C139	139	PCB-199	366	-		
PCB-150	7.57	-			PCB-200	44.7	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-017-SA
Client ID: LDW-Y2-SC-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.04 g
% Solids: 99.49

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	50.2	-		
PCB-202	76.9	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.561		
PCB-205	18.9	-		
PCB-206	171	-		
PCB-207	22.7	-		
PCB-208	47.7	-		
PCB-209	68.7	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	85.6	5.00 - 145	
13C-PCB-3	79.5	5.00 - 145	
13C-PCB-4	87.9	5.00 - 145	
13C-PCB-15	87.2	5.00 - 145	
13C-PCB-19	79.0	5.00 - 145	
13C-PCB-37	79.3	5.00 - 145	
13C-PCB-54	83.3	5.00 - 145	
13C-PCB-77	84.1	10.0 - 145	
13C-PCB-81	88.6	10.0 - 145	
13C-PCB-104	80.5	10.0 - 145	
13C-PCB-105	93.3	10.0 - 145	
13C-PCB-114	93.6	10.0 - 145	
13C-PCB-118	88.9	10.0 - 145	
13C-PCB-123	88.4	10.0 - 145	
13C-PCB-126	87.7	10.0 - 145	
13C-PCB-155	77.0	10.0 - 145	
13C-PCB-156	97.0	10.0 - 145	
13C-PCB-157	96.9	10.0 - 145	
13C-PCB-167	95.0	10.0 - 145	
13C-PCB-169	88.6	10.0 - 145	
13C-PCB-188	79.3	10.0 - 145	
13C-PCB-189	84.2	10.0 - 145	
13C-PCB-202	84.1	10.0 - 145	
13C-PCB-205	88.9	10.0 - 145	
13C-PCB-206	83.4	10.0 - 145	
13C-PCB-208	97.2	10.0 - 145	
13C-PCB-209	74.8	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	97.1	5.00 - 145	
13C-PCB-111	91.3	10.0 - 145	
13C-PCB-178	86.0	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-018-SA
Client ID: LDW-Y2-SC-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.02 g
% Solids: 99.82

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019
Total Conc: 20700

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	16.6	-			PCB-51	32.5	-		
PCB-2	7.66	-			PCB-52	619	-	C	69
PCB-3	9.99	-			PCB-53	91.7	-		
PCB-4	95.1	-			PCB-54	2.08	-	J	
PCB-5	ND	0.722			PCB-55	16.0	-		
PCB-6	71.2	-			PCB-56	403	-	C	60
PCB-7	13.6	-			PCB-57	4.60	-		
PCB-8	360	-			PCB-58	1.41	-	J	
PCB-9	17.1	-			PCB-59	-	-	C042	42
PCB-10	8.14	-			PCB-60	-	-	C056	56
PCB-11	13.8	-			PCB-61	610	-	C	70
PCB-12	7.45	-			PCB-62	ND	0.553		
PCB-13	7.70	-			PCB-63	23.1	-		
PCB-14	ND	0.759			PCB-64	-	-	C041	41/71/72
PCB-15	88.7	-			PCB-65	ND	0.583		
PCB-16	202	-			PCB-66	521	-	C	76
PCB-17	267	-			PCB-67	23.3	-		
PCB-18	605	-			PCB-68	5.52	-		
PCB-19	56.9	-			PCB-69	-	-	C052	52
PCB-20	481	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	258	-			PCB-72	-	-	C041	41/64/71
PCB-23	1.67	-	J		PCB-73	ND	0.529		
PCB-24	31.2	-			PCB-74	260	-		
PCB-25	86.4	-			PCB-75	-	-	C048	48
PCB-26	146	-			PCB-76	-	-	C066	66
PCB-27	26.4	-			PCB-77	38.2	-		
PCB-28	740	-			PCB-78	3.62	-	J	
PCB-29	6.64	-			PCB-79	13.5	-		
PCB-30	ND	0.881			PCB-80	ND	0.477		
PCB-31	713	-			PCB-81	17.6	-		
PCB-32	209	-			PCB-82	81.7	-		
PCB-33	-	-	C020	20/21	PCB-83	29.3	-	C	112
PCB-34	4.46	-			PCB-84	258	-	C	92
PCB-35	8.33	-			PCB-85	101	-	C	116
PCB-36	ND	0.589			PCB-86	5.07	-		
PCB-37	110	-			PCB-87	244	-	C	117/125
PCB-38	6.71	-			PCB-88	107	-	C	91
PCB-39	ND	0.591			PCB-89	9.31	-		
PCB-40	93.0	-			PCB-90	726	-	C	101
PCB-41	453	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	209	-	C	59	PCB-92	-	-	C084	84
PCB-43	507	-	C	49	PCB-93	ND	0.410		
PCB-44	505	-			PCB-94	4.79	-		
PCB-45	99.6	-			PCB-95	115	-		
PCB-46	40.9	-			PCB-96	5.38	-		
PCB-47	186	-			PCB-97	213	-		
PCB-48	129	-	C	75	PCB-98	ND	0.463	C	102
PCB-49	-	-	C043	43	PCB-99	320	-		
PCB-50	2.84	-	J		PCB-100	7.38	-		

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EPA Method 1668
PCBs

FAL ID: 12532-018-SA
Client ID: LDW-Y2-SC-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.02 g
% Solids: 99.82

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	200	-		
PCB-102	-	-	C098	98	PCB-152	1.09	-	J	
PCB-103	13.0	-			PCB-153	887	-		
PCB-104	ND	0.291			PCB-154	23.5	-		
PCB-105	209	-			PCB-155	ND	0.284		
PCB-106	522	-	C	118	PCB-156	75.1	-		
PCB-107	41.0	-	C	108	PCB-157	16.6	-		
PCB-108	-	-	C107	107	PCB-158	92.1	-	C	160
PCB-109	ND	0.617			PCB-159	13.1	-		
PCB-110	671	-			PCB-160	-	-	C158	158
PCB-111	14.8	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.654			PCB-163	-	-	C138	138/164
PCB-114	15.9	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	2.50	-	J	
PCB-117	-	-	C087	87/125	PCB-167	30.5	-		
PCB-118	-	-	C	106	PCB-168	ND	0.582		
PCB-119	19.5	-			PCB-169	ND	0.736		
PCB-120	3.58	-	J		PCB-170	288	-		
PCB-121	ND	0.359			PCB-171	85.5	-		
PCB-122	8.42	-			PCB-172	50.4	-		
PCB-123	9.95	-			PCB-173	6.12	-		
PCB-124	30.2	-			PCB-174	262	-		
PCB-125	-	-	C087	87/117	PCB-175	12.9	-		
PCB-126	4.20	-			PCB-176	40.8	-		
PCB-127	ND	0.828			PCB-177	179	-		
PCB-128	130	-	C	162	PCB-178	63.5	-		
PCB-129	36.2	-			PCB-179	119	-		
PCB-130	57.9	-			PCB-180	681	-		
PCB-131	26.9	-	C	133	PCB-181	ND	0.497		
PCB-132	211	-	C	161	PCB-182	359	-	C	187
PCB-133	-	-	C131	131	PCB-183	191	-		
PCB-134	44.9	-	C	143	PCB-184	ND	0.282		
PCB-135	115	-			PCB-185	34.0	-		
PCB-136	133	-			PCB-186	ND	0.161		
PCB-137	36.0	-			PCB-187	-	-	C182	182
PCB-138	914	-	C	163/164	PCB-188	0.891	-	J	
PCB-139	691	-	C	149	PCB-189	9.78	-		
PCB-140	6.33	-			PCB-190	60.3	-		
PCB-141	157	-			PCB-191	12.3	-		
PCB-142	ND	0.857			PCB-192	ND	0.373		
PCB-143	-	-	C134	134	PCB-193	35.1	-		
PCB-144	43.5	-			PCB-194	139	-		
PCB-145	ND	0.318			PCB-195	59.3	-		
PCB-146	122	-	C	165	PCB-196	163	-	C	203
PCB-147	16.7	-			PCB-197	6.58	-		
PCB-148	ND	0.473			PCB-198	7.99	-		
PCB-149	-	-	C139	139	PCB-199	150	-		
PCB-150	3.79	-	J		PCB-200	19.2	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-018-SA
Client ID: LDW-Y2-SC-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.02 g
% Solids: 99.82

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	20.2	-		
PCB-202	34.0	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.366		
PCB-205	7.60	-		
PCB-206	71.8	-		
PCB-207	9.52	-		
PCB-208	20.0	-		
PCB-209	28.9	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	83.6	5.00 - 145	
13C-PCB-3	74.9	5.00 - 145	
13C-PCB-4	85.6	5.00 - 145	
13C-PCB-15	80.7	5.00 - 145	
13C-PCB-19	77.4	5.00 - 145	
13C-PCB-37	76.2	5.00 - 145	
13C-PCB-54	84.5	5.00 - 145	
13C-PCB-77	77.0	10.0 - 145	
13C-PCB-81	81.0	10.0 - 145	
13C-PCB-104	84.0	10.0 - 145	
13C-PCB-105	90.0	10.0 - 145	
13C-PCB-114	93.5	10.0 - 145	
13C-PCB-118	87.5	10.0 - 145	
13C-PCB-123	91.6	10.0 - 145	
13C-PCB-126	81.6	10.0 - 145	
13C-PCB-155	76.8	10.0 - 145	
13C-PCB-156	97.1	10.0 - 145	
13C-PCB-157	100	10.0 - 145	
13C-PCB-167	94.5	10.0 - 145	
13C-PCB-169	84.6	10.0 - 145	
13C-PCB-188	81.8	10.0 - 145	
13C-PCB-189	89.5	10.0 - 145	
13C-PCB-202	86.1	10.0 - 145	
13C-PCB-205	92.2	10.0 - 145	
13C-PCB-206	85.0	10.0 - 145	
13C-PCB-208	94.5	10.0 - 145	
13C-PCB-209	76.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	92.4	5.00 - 145	
13C-PCB-111	87.1	10.0 - 145	
13C-PCB-178	84.3	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-019-SA
Client ID: LDW-Y2-SC-ENR-SS
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.01 g
% Solids: 55.47

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019
Total Conc: 86700

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	28.9	-			PCB-51	98.5	-		
PCB-2	5.96	-			PCB-52	2390	-	C	69
PCB-3	24.0	-			PCB-53	307	-		
PCB-4	223	-			PCB-54	6.69	-		
PCB-5	ND	0.857			PCB-55	56.4	-		
PCB-6	176	-			PCB-56	1310	-	C	60
PCB-7	31.5	-			PCB-57	15.8	-		
PCB-8	867	-			PCB-58	6.77	-		
PCB-9	37.4	-			PCB-59	-	-	C042	42
PCB-10	10.7	-			PCB-60	-	-	C056	56
PCB-11	30.6	-			PCB-61	2920	-	C	70
PCB-12	52.9	-			PCB-62	ND	0.743		
PCB-13	27.7	-			PCB-63	93.4	-		
PCB-14	ND	0.900			PCB-64	-	-	C041	41/71/72
PCB-15	509	-			PCB-65	ND	0.783		
PCB-16	559	-			PCB-66	2490	-	C	76
PCB-17	776	-			PCB-67	97.9	-		
PCB-18	1740	-			PCB-68	13.2	-		
PCB-19	156	-			PCB-69	-	-	C052	52
PCB-20	1360	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	681	-			PCB-72	-	-	C041	41/64/71
PCB-23	3.21	-	J		PCB-73	ND	0.712		
PCB-24	95.3	-			PCB-74	1230	-		
PCB-25	239	-			PCB-75	-	-	C048	48
PCB-26	409	-			PCB-76	-	-	C066	66
PCB-27	67.3	-			PCB-77	242	-		
PCB-28	2120	-			PCB-78	12.1	-		
PCB-29	17.4	-			PCB-79	41.5	-		
PCB-30	ND	0.671			PCB-80	ND	0.642		
PCB-31	1980	-			PCB-81	68.6	-		
PCB-32	599	-			PCB-82	365	-		
PCB-33	-	-	C020	20/21	PCB-83	125	-	C	112
PCB-34	12.3	-			PCB-84	1130	-	C	92
PCB-35	34.5	-			PCB-85	438	-	C	116
PCB-36	ND	0.829			PCB-86	ND	1.06		
PCB-37	700	-			PCB-87	1100	-	C	117/125
PCB-38	16.5	-			PCB-88	491	-	C	91
PCB-39	ND	0.831			PCB-89	38.3	-		
PCB-40	322	-			PCB-90	3170	-	C	101
PCB-41	1520	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	665	-	C	59	PCB-92	-	-	C084	84
PCB-43	1740	-	C	49	PCB-93	ND	0.540		
PCB-44	1780	-			PCB-94	18.6	-		
PCB-45	329	-			PCB-95	2900	-		
PCB-46	132	-			PCB-96	23.7	-		
PCB-47	587	-			PCB-97	943	-		
PCB-48	397	-	C	75	PCB-98	ND	0.609	C	102
PCB-49	-	-	C043	43	PCB-99	1330	-		
PCB-50	8.07	-			PCB-100	28.9	-		

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EPA Method 1668
PCBs

FAL ID: 12532-019-SA
Client ID: LDW-Y2-SC-ENR-SS
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.01 g
% Solids: 55.47

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	864	-		
PCB-102	-	-	C098	98	PCB-152	3.97	-	J	
PCB-103	55.4	-			PCB-153	4000	-		
PCB-104	ND	0.382			PCB-154	103	-		
PCB-105	1050	-			PCB-155	1.42	-	J	
PCB-106	2750	-	C	118	PCB-156	397	-		
PCB-107	190	-	C	108	PCB-157	85.5	-		
PCB-108	-	-	C107	107	PCB-158	402	-	C	160
PCB-109	ND	0.775			PCB-159	51.9	-		
PCB-110	3130	-			PCB-160	-	-	C158	158
PCB-111	60.6	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.822			PCB-163	-	-	C138	138/164
PCB-114	72.1	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	12.9	-		
PCB-117	-	-	C087	87/125	PCB-167	162	-		
PCB-118	-	-	C	106	PCB-168	ND	0.694		
PCB-119	82.7	-			PCB-169	ND	0.757		
PCB-120	17.0	-			PCB-170	1460	-		
PCB-121	ND	0.472			PCB-171	416	-		
PCB-122	37.0	-			PCB-172	241	-		
PCB-123	49.1	-			PCB-173	31.1	-		
PCB-124	146	-			PCB-174	1350	-		
PCB-125	-	-	C087	87/117	PCB-175	59.5	-		
PCB-126	20.5	-			PCB-176	195	-		
PCB-127	ND	0.709			PCB-177	916	-		
PCB-128	606	-	C	162	PCB-178	303	-		
PCB-129	167	-			PCB-179	585	-		
PCB-130	260	-			PCB-180	3380	-		
PCB-131	119	-	C	133	PCB-181	ND	0.981		
PCB-132	951	-	C	161	PCB-182	1830	-	C	187
PCB-133	-	-	C131	131	PCB-183	921	-		
PCB-134	201	-	C	143	PCB-184	1.48	-	J	
PCB-135	485	-			PCB-185	171	-		
PCB-136	590	-			PCB-186	ND	0.613		
PCB-137	159	-			PCB-187	-	-	C182	182
PCB-138	4160	-	C	163/164	PCB-188	4.63	-		
PCB-139	3100	-	C	149	PCB-189	52.0	-		
PCB-140	27.8	-			PCB-190	305	-		
PCB-141	700	-			PCB-191	60.5	-		
PCB-142	ND	1.02			PCB-192	ND	0.736		
PCB-143	-	-	C134	134	PCB-193	167	-		
PCB-144	192	-			PCB-194	670	-		
PCB-145	1.71	-	J		PCB-195	327	-		
PCB-146	537	-	C	165	PCB-196	807	-	C	203
PCB-147	76.0	-			PCB-197	31.7	-		
PCB-148	ND	0.557			PCB-198	41.5	-		
PCB-149	-	-	C139	139	PCB-199	707	-		
PCB-150	13.6	-			PCB-200	88.2	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-019-SA
Client ID: LDW-Y2-SC-ENR-SS
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.01 g
% Solids: 55.47

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	102	-		
PCB-202	162	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.638		
PCB-205	37.1	-		
PCB-206	322	-		
PCB-207	41.3	-		
PCB-208	85.7	-		
PCB-209	127	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	79.8	5.00 - 145	
13C-PCB-3	85.2	5.00 - 145	
13C-PCB-4	83.4	5.00 - 145	
13C-PCB-15	107	5.00 - 145	
13C-PCB-19	77.2	5.00 - 145	
13C-PCB-37	91.2	5.00 - 145	
13C-PCB-54	80.3	5.00 - 145	
13C-PCB-77	99.8	10.0 - 145	
13C-PCB-81	98.6	10.0 - 145	
13C-PCB-104	78.4	10.0 - 145	
13C-PCB-105	92.2	10.0 - 145	
13C-PCB-114	94.0	10.0 - 145	
13C-PCB-118	91.0	10.0 - 145	
13C-PCB-123	91.5	10.0 - 145	
13C-PCB-126	99.7	10.0 - 145	
13C-PCB-155	78.1	10.0 - 145	
13C-PCB-156	98.8	10.0 - 145	
13C-PCB-157	99.3	10.0 - 145	
13C-PCB-167	98.2	10.0 - 145	
13C-PCB-169	98.2	10.0 - 145	
13C-PCB-188	79.4	10.0 - 145	
13C-PCB-189	82.9	10.0 - 145	
13C-PCB-202	80.2	10.0 - 145	
13C-PCB-205	94.4	10.0 - 145	
13C-PCB-206	90.2	10.0 - 145	
13C-PCB-208	102	10.0 - 145	
13C-PCB-209	78.8	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	99.1	5.00 - 145	
13C-PCB-111	96.3	10.0 - 145	
13C-PCB-178	88.9	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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EPA Method 1668
PCBs

FAL ID: 12532-020-SA
Client ID: LDW-Y2-SC-ENR+AC-SS
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.03 g
% Solids: 62.82

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019
Total Conc: 28800

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	11.6	-			PCB-51	36.2	-		
PCB-2	2.03	-	J		PCB-52	802	-	C	69
PCB-3	8.35	-			PCB-53	105	-		
PCB-4	101	-			PCB-54	2.38	-	J	
PCB-5	ND	0.809			PCB-55	26.8	-		
PCB-6	56.6	-			PCB-56	506	-	C	60
PCB-7	9.49	-			PCB-57	6.52	-		
PCB-8	265	-			PCB-58	2.48	-	J	
PCB-9	13.0	-			PCB-59	-	-	C042	42
PCB-10	7.90	-			PCB-60	-	-	C056	56
PCB-11	12.0	-			PCB-61	1000	-	C	70
PCB-12	17.5	-			PCB-62	ND	0.827		
PCB-13	7.51	-			PCB-63	35.3	-		
PCB-14	ND	0.850			PCB-64	-	-	C041	41/71/72
PCB-15	145	-			PCB-65	ND	0.871		
PCB-16	159	-			PCB-66	869	-	C	76
PCB-17	248	-			PCB-67	37.2	-		
PCB-18	569	-			PCB-68	4.70	-		
PCB-19	55.6	-			PCB-69	-	-	C052	52
PCB-20	461	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	230	-			PCB-72	-	-	C041	41/64/71
PCB-23	1.53	-	J		PCB-73	ND	0.792		
PCB-24	24.5	-			PCB-74	435	-		
PCB-25	77.8	-			PCB-75	-	-	C048	48
PCB-26	140	-			PCB-76	-	-	C066	66
PCB-27	28.4	-			PCB-77	86.7	-		
PCB-28	673	-			PCB-78	3.66	-	J	
PCB-29	5.79	-			PCB-79	14.7	-		
PCB-30	ND	0.997			PCB-80	ND	0.714		
PCB-31	645	-			PCB-81	21.9	-		
PCB-32	210	-			PCB-82	126	-		
PCB-33	-	-	C020	20/21	PCB-83	42.2	-	C	112
PCB-34	4.31	-			PCB-84	361	-	C	92
PCB-35	15.8	-			PCB-85	151	-	C	116
PCB-36	ND	0.774			PCB-86	6.42	-		
PCB-37	237	-			PCB-87	350	-	C	117/125
PCB-38	5.80	-			PCB-88	167	-	C	91
PCB-39	ND	0.775			PCB-89	12.8	-		
PCB-40	115	-			PCB-90	1000	-	C	101
PCB-41	567	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	246	-	C	59	PCB-92	-	-	C084	84
PCB-43	611	-	C	49	PCB-93	ND	0.456		
PCB-44	622	-			PCB-94	6.64	-		
PCB-45	115	-			PCB-95	908	-		
PCB-46	47.5	-			PCB-96	8.14	-		
PCB-47	218	-			PCB-97	311	-		
PCB-48	162	-	C	75	PCB-98	ND	0.515	C	102
PCB-49	-	-	C043	43	PCB-99	431	-		
PCB-50	2.69	-	J		PCB-100	10.0	-		

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EPA Method 1668
PCBs

FAL ID: 12532-020-SA
Client ID: LDW-Y2-SC-ENR+AC-SS
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.03 g
% Solids: 62.82

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	278	-		
PCB-102	-	-	C098	98	PCB-152	1.44	-	J	
PCB-103	19.4	-			PCB-153	1280	-		
PCB-104	ND	0.323			PCB-154	35.2	-		
PCB-105	345	-			PCB-155	ND	0.289		
PCB-106	870	-	C	118	PCB-156	128	-		
PCB-107	60.5	-	C	108	PCB-157	27.8	-		
PCB-108	-	-	C107	107	PCB-158	132	-	C	160
PCB-109	ND	0.580			PCB-159	16.5	-		
PCB-110	1000	-			PCB-160	-	-	C158	158
PCB-111	21.0	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.616			PCB-163	-	-	C138	138/164
PCB-114	24.8	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	4.88	-		
PCB-117	-	-	C087	87/125	PCB-167	55.1	-		
PCB-118	-	-	C	106	PCB-168	ND	0.555		
PCB-119	27.4	-			PCB-169	ND	0.602		
PCB-120	5.42	-			PCB-170	497	-		
PCB-121	ND	0.399			PCB-171	145	-		
PCB-122	13.7	-			PCB-172	84.0	-		
PCB-123	21.1	-			PCB-173	9.99	-		
PCB-124	46.8	-			PCB-174	442	-		
PCB-125	-	-	C087	87/117	PCB-175	23.0	-		
PCB-126	7.04	-			PCB-176	67.0	-		
PCB-127	ND	0.686			PCB-177	312	-		
PCB-128	197	-	C	162	PCB-178	101	-		
PCB-129	52.4	-			PCB-179	196	-		
PCB-130	86.1	-			PCB-180	1110	-		
PCB-131	38.9	-	C	133	PCB-181	ND	0.859		
PCB-132	305	-	C	161	PCB-182	608	-	C	187
PCB-133	-	-	C131	131	PCB-183	312	-		
PCB-134	65.0	-	C	143	PCB-184	ND	0.488		
PCB-135	157	-			PCB-185	57.5	-		
PCB-136	195	-			PCB-186	ND	0.536		
PCB-137	49.0	-			PCB-187	-	-	C182	182
PCB-138	1330	-	C	163/164	PCB-188	1.61	-	J	
PCB-139	976	-	C	149	PCB-189	18.6	-		
PCB-140	9.90	-			PCB-190	107	-		
PCB-141	220	-			PCB-191	20.3	-		
PCB-142	ND	0.818			PCB-192	ND	0.644		
PCB-143	-	-	C134	134	PCB-193	57.9	-		
PCB-144	61.5	-			PCB-194	227	-		
PCB-145	ND	0.323			PCB-195	109	-		
PCB-146	172	-	C	165	PCB-196	281	-	C	203
PCB-147	24.0	-			PCB-197	11.1	-		
PCB-148	ND	0.481			PCB-198	13.3	-		
PCB-149	-	-	C139	139	PCB-199	254	-		
PCB-150	5.07	-			PCB-200	30.8	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12532-020-SA
Client ID: LDW-Y2-SC-ENR+AC-SS
Matrix: Sediment
Batch No: X4984

Date Extracted: 07-24-2019
Date Received: 07-10-2019
Amount: 5.03 g
% Solids: 62.82

ICal: DAILY209FAL4-7-25-19
GC Column: DB1MS
Units: pg/g

Acquired: 07-25-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	34.7	-		
PCB-202	52.5	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.488		
PCB-205	13.0	-		
PCB-206	109	-		
PCB-207	14.0	-		
PCB-208	28.8	-		
PCB-209	45.0	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	89.7	5.00 - 145	
13C-PCB-3	90.0	5.00 - 145	
13C-PCB-4	89.6	5.00 - 145	
13C-PCB-15	109	5.00 - 145	
13C-PCB-19	79.8	5.00 - 145	
13C-PCB-37	89.6	5.00 - 145	
13C-PCB-54	84.2	5.00 - 145	
13C-PCB-77	100	10.0 - 145	
13C-PCB-81	101	10.0 - 145	
13C-PCB-104	79.2	10.0 - 145	
13C-PCB-105	94.5	10.0 - 145	
13C-PCB-114	94.5	10.0 - 145	
13C-PCB-118	89.3	10.0 - 145	
13C-PCB-123	90.8	10.0 - 145	
13C-PCB-126	102	10.0 - 145	
13C-PCB-155	79.3	10.0 - 145	
13C-PCB-156	103	10.0 - 145	
13C-PCB-157	102	10.0 - 145	
13C-PCB-167	102	10.0 - 145	
13C-PCB-169	102	10.0 - 145	
13C-PCB-188	79.9	10.0 - 145	
13C-PCB-189	85.8	10.0 - 145	
13C-PCB-202	79.7	10.0 - 145	
13C-PCB-205	96.8	10.0 - 145	
13C-PCB-206	91.6	10.0 - 145	
13C-PCB-208	103	10.0 - 145	
13C-PCB-209	80.4	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	94.3	5.00 - 145	
13C-PCB-111	100	10.0 - 145	
13C-PCB-178	90.5	10.0 - 145	

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

Analyst: [signature]

Date: 7/26/2019

Reviewed By: DPV

Date: 7/26/2019

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

FAL USE ONLY
Laboratory Project No.: 12532
Temperature: 0 °C

Chain of Custody

www.frontieranalytical.com

Please Print in Pen Page 1 of 2

CLIENT INFORMATION
Company Name: Floyd Snider
Contact Name: Gretchen Heavner
Address: 601 Union Street, Suite 600, Seattle WA 98101
Phone: 206-292-2078 Fax: 206-682-7867
Email: gretchen.heavner@floydsnider.com

INVOICE INFORMATION (if different from client info)
Company Name: Wood.
Contact Name: Diane Shannon and Crystal Thimsen
Address: 3500 188TH St. SW, Suite 601, Lynnwood WA 98037
Phone: 425-921-4008 Fax:
Email: diane.shannon@woodplc.com & crystal.thimsen@woodplc.com

PROJECT INFORMATION
FAL Quote #: 3102A
P.O. #: C013106435
Project #: LY15160310
Project Name: LDW ENR/AC Pilot Study
TAT (business days): ✓ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION
Report Level: ☐ I/II ☐ III ✓ IV
✓ EDD: ☐ FAL Basic ☐ Geotracker
✓ Other: FSI ☐ Custom: Contact FAL

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

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

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

****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**	DEM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	LDW-Y2-SU-ENR-CA-CORE	4/25/2019	12:03	sediment	1								✓			
2	LDW-Y2-SU-ENR-CB-CORE	4/25/2019	12:15	sediment	1								✓			
3	LDW-Y2-SU-ENR-CC-CORE	4/25/2019	12:27	sediment	1								✓			
4	LDW-Y2-SU-ENR+AC-CA-CORE	4/25/2019	10:55	sediment	1								✓			
5	LDW-Y2-SU-ENR+AC-CB-CORE	4/25/2019	11:07	sediment	1								✓			
6	LDW-Y2-SU-ENR+AC-CC-CORE	4/25/2019	11:17	sediment	1								✓			
7	LDW-Y2-IN-ENR-CA-CORE	6/26/2019	11:15	sediment	1								✓			
8	LDW-Y2-IN-ENR-CB-CORE	6/26/2019	11:25	sediment	1								✓			
9	LDW-Y2-IN-ENR-CE-CORE	6/26/2019	11:55	sediment	1								✓			
10	LDW-Y2-IN-ENR+AC-CA-CORE	6/26/2019	12:00	sediment	1								✓			
11	LDW-Y2-IN-ENR+AC-CB-CORE	7/2/2019	10:50	sediment	1								✓			
12	LDW-Y2-IN-ENR+AC-CC-CORE	6/26/2019	12:10	sediment	1								✓			
13	LDW-Y2-SC-ENR-CC-CORE	7/2/2019	11:30	sediment	1								✓			
14	LDW-Y2-SC-ENR-CD-CORE	7/2/2019	11:40	sediment	1								✓			
15	LDW-Y2-SC-ENR-CE-CORE	7/2/2019	11:45	sediment	1								✓			

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
Crystal Thimsen Crystal Thimsen	7/9/19	1446	Kathy Zapp KZapp	7-10-19	1215

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.

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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.: 12532
Temperature: 0 °C

Chain of Custody

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

CLIENT INFORMATION
Company Name: Floyd Snider
Contact Name: Gretchen Heavner
Address: 601 Union Street, Suite 600, Seattle WA 98101
Phone: 206-292-2078 Fax: 206-682-7867
Email: gretchen.heavner@floydsnider.com

INVOICE INFORMATION (if different from client info)
Company Name: Wood.
Contact Name: Diane Shannon and Crystal Thimsen
Address: 3500 188TH St. SW, Suite 601, Lynnwood WA 98037
Phone: 425-921-4008 Fax:
Email: diane.shannon@woodplc.com & crystal.thimsen@woodplc.com

PROJECT INFORMATION
FAL Quote #: 3102A
P.O. #: C013106435
Project #: LY15160310
Project Name: LDW ENR/AC Pilot Study
TAT (business days): ☑ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
* FAL must agree with price and RUSH TAT in writing.

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

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

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

**CONGENERS: ☐ 2,3,7,8-TCDD only ☐ 2,3,7,8-TCDD/F only ☐ PCDD/F (Cl_4-Cl_8)
**TEQ: ☐ 1998 WHO ☐ 2005 WHO ☐ Other

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	LDW-Y2-SC-ENR+AC-CAD-CORE	7/2/2019	11:50	sediment	1								✓			
2	LDW-Y2-SC-ENR+AC-CB-CORE	7/2/2019	11:55	sediment	1								✓			
3	LDW-Y2-SC-ENR+AC-CC-CORE	7/2/2019	12:00	sediment	1								✓			
4	LDW-Y2-SC-ENR-SS	6/22/2019	17:43	sediment	1								✓			
5	LDW-Y2-SC-ENR+AC-SS	6/26/2019	12:19	sediment	1								✓			
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
			Kathy Zapp K. Zapp	7.10.19	1215

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
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Pink Copy - Originator

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **12532**

Client:	Floyd | Snider
Client Project ID:	LY15160310
Date Received:	07/10/2019
Time Received:	12:15 pm
Received By:	KZ
Logged In By:	KC
# of Samples Received:	20
Duplicates:	0
Storage Location:	R-4

Method of Delivery:	Fed-Ex
Tracking Number:	775671188729
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	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

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PROJECT REQUEST SHEET

Project #:	12532	Sample #:	~~1-20~~ 1-10 KC 7.23.19	Client Manager:	BS
Client:	Floyd | Snider			Hold Time:	04/24/2020
Matrix:	Sediment	Extraction Batch:	4981	Due Date:	08/01/2019
Method:	EPA 1668 PCB			Storage:	R-4
SOP:	SOPs: EP1A Rev.13/IP1A Rev.11				

COMMENTS/INSTRUCTIONS:

Results: 12532

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

Standards: 12532

Instrument:

DB5MS ____

007-225 ____

DB1MS FAC-4

Other ____

Frontier Analytical Laboratory
Percent Solids

FAL Project: 12532

Sample ID	Chemist	Start Date	Start Time	Wet Sample Weight (g)	Dry Sample Weight (g)	% Solids	7.23.19 ~~40g~~ 5g Equiv	Wet Wt Oven Temp	Dry Wt Oven Temp	End Date	End Time	Boat Wt (g)
12532-001-0001-SA	RR	7.22.19	1125	11.29g	9.32g	82.55%	6.06g	106.8c	107.8c	7.23.19	1:30pm	1.15g
12532-002-0001-SA				12.18g	9.79g	80.38%	6.22g					1.10g
12532-003-0001-SA				12.67g	10.47g	82.64%	6.05g					1.12g
12532-004-0001-SA				10.80g	8.53g	78.98%	6.33g					1.14g
12532-005-0001-SA				11.43g	8.89g	77.78%	6.43g					1.11g
12532-006-0001-SA				8.99g	6.97g	77.53%	6.45g					1.12g
12532-007-0001-SA				9.04g	9.03g	99.89%	5.01g					1.11g
12532-008-0001-SA				9.39g	9.37g	99.79%	5.01g					1.12g
12532-009-0001-SA				9.32g	9.28g	99.57%	5.02g					1.13g
12532-010-0001-SA				9.65g	9.55g	98.96%	5.05g					1.10g
12532-011-0001-SA				8.17g	8.00g	97.92%	5.11g					1.13g
12532-012-0001-SA				8.50g	8.49g	99.88%	5.01g					1.13g
12532-013-0001-SA				9.05g	8.87g	~~96.50%~~ 98.01%	~~5.52g~~ 7.23.19 5.10g					1.12g
12532-014-0001-SA				7.36g	7.22g	98.10%	5.10g					1.10g
12532-015-0001-SA				7.08g	6.97g	98.45%	5.08g					1.09g
12532-016-0001-SA				7.66g	7.66g	100.00%	5.00g					1.11g
12532-017-0001-SA				9.74g	9.69g	99.49%	5.03g					1.13g
12532-018-0001-SA				11.03g	11.01g	99.82%	5.01g					1.13g
12532-019-0001-SA				12.89g	7.15g	55.47%	9.01g					1.11g
12532-020-0001-SA				9.28g	5.83g	62.82%	7.96g					1.11g

% Solids Summary:

Non-Filtered Determination

1. Place an aliquot of sample into a pre-weighed aluminum weighing boat. Use approximately two to ten grams for solid samples, approximately 10 mL for aqueous samples.
2. Record the weight.
3. Dry sample overnight at approximately 110 C.

Filtered Determination

1. Pre-weigh a glass fiber filter of appropriate pore size and pressure filter a sample aliquot (200-1000mL) through it.
2. Air dry the filter and record the dry weight.

% Solids calculation

% solids = aliquot after drying/aliquot before drying x 100

- Samples containing one percent solids or less are prepared as aqueous samples.
- Samples containing greater than one percent solids prepared as solid samples.

Frontier Analytical Laboratory
EXTRACTION SHEET

Project #: 12532 Extraction Date: 2019-07-23 Extraction Chemist: KC

Method/Analysis: EPA 1668 PCB

Procedure: SOX Solvent: DCM (Methylene Chloride)

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS Amt: 10.0uL ID: R181204A Vial: 5 Chemist/Witness/Date	NS Amt: 10.0uL ID: 190510A Vial: 1 Chemist/Witness/Date	CSS Amt: 10.0uL ID: R190613B Vial: 1 Chemist/Witness/Date
04981-001-0001-MB	(5.00g)	(5.00g)	KC RR 7.23.19	NA	KC RR 7.24.19
04981-001-0001-OPR	(5.00g)	(5.00g)		KC RR 7.23.19	
12532-001-0001-SA	6.06g	5.00g		NA	
12532-002-0001-SA	6.34g	5.10g			
12532-003-0001-SA	6.11g	5.05g			
12532-004-0001-SA	6.49g	5.13g			
12532-005-0001-SA	6.48g	5.04g			
12532-006-0001-SA	6.49g	5.03g			
12532-007-0001-SA	5.09g	5.08g			
12532-008-0001-SA	5.09g	5.08g			
12532-009-0001-SA	5.02g	5.00g			
12532-010-0001-SA	5.07g	5.02g			

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

Comments:

Frontier Analytical Laboratory
CLEANUP SHEET

Project #: 12532

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: 190430A Vial: 1 Chemist/Witness/Date
04981-001-0001-MB	KC 7·24·19	NA	NA	KC RR 7·24·19
04981-001-0001-OPR				
12532-001-0001-SA				
12532-002-0001-SA				
12532-003-0001-SA				
12532-004-0001-SA				
12532-005-0001-SA				
12532-006-0001-SA				
12532-007-0001-SA				
12532-008-0001-SA				
12532-009-0001-SA				
12532-010-0001-SA				

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

Comments:

Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #:	12532	Sample #:	~~1~~ 11 - 20 KC 7-23-19	Client Manager:	BS
Client:	Floyd | Snider			Hold Time:	04/24/2020
Matrix:	Sediment	Extraction Batch:	4984	Due Date:	08/01/2019
Method:	EPA 1668 PCB			Storage:	R-4
SOP:	SOPs: EP1A Rev.13/IP1A Rev.11				

COMMENTS/INSTRUCTIONS:

Samples 11, 13, 15 crystals present diluted vial to top

Results: 12532-11

Extract/s located in box: Hotter than Hades

Standards: 12532

Instrument:

DB5MS	
007-225	
DB1MS	FAL2
Other	

Frontier Analytical Laboratory
Percent Solids

FAL Project: 12532

Sample ID	Chemist	Start Date	Start Time	Wet Sample Weight (g)	Dry Sample Weight (g)	% Solids	7.23.19 ~~40g~~ 5g Equiv	Wet Wt Oven Temp	Dry Wt Oven Temp	End Date	End Time	Boat Wt (g)
12532-001-0001-SA	RR	7.22.19	1125	11.29g	9.32g	82.55%	6.06g	106.8c	107.8c	7.23.19	1:30pm	1.15g
12532-002-0001-SA				12.18g	9.79g	80.38%	6.22g					1.10g
12532-003-0001-SA				12.67g	10.47g	82.64%	6.05g					1.12g
12532-004-0001-SA				10.80g	8.53g	78.98%	6.33g					1.14g
12532-005-0001-SA				11.43g	8.89g	77.78%	6.43g					1.11g
12532-006-0001-SA				8.99g	6.97g	77.53%	6.45g					1.12g
12532-007-0001-SA				9.04g	9.03g	99.89%	5.01g					1.11g
12532-008-0001-SA				9.39g	9.37g	99.79%	5.01g					1.12g
12532-009-0001-SA				9.32g	9.28g	99.57%	5.02g					1.13g
12532-010-0001-SA				9.65g	9.55g	98.96%	5.05g					1.10g
12532-011-0001-SA				8.17g	8.00g	97.92%	5.11g					1.13g
12532-012-0001-SA				8.50g	8.49g	99.88%	5.01g					1.13g
12532-013-0001-SA				9.05g	8.87g	~~96.50%~~ 98.01%	~~5.52g~~ 7.23.19 5.10g					1.12g
12532-014-0001-SA				7.36g	7.22g	98.10%	5.10g					1.10g
12532-015-0001-SA				7.08g	6.97g	98.45%	5.08g					1.09g
12532-016-0001-SA				7.66g	7.66g	100.00%	5.00g					1.11g
12532-017-0001-SA				9.74g	9.69g	99.49%	5.03g					1.13g
12532-018-0001-SA				11.03g	11.01g	99.82%	5.01g					1.13g
12532-019-0001-SA				12.89g	7.15g	55.47%	9.01g					1.11g
12532-020-0001-SA				9.28g	5.83g	62.82%	7.96g					1.11g

% Solids Summary:

Non-Filtered Determination

1. Place an aliquot of sample into a pre-weighed aluminum weighing boat. Use approximately two to ten grams for solid samples, approximately 10 mL for aqueous samples.
2. Record the weight.
3. Dry sample overnight at approximately 110 C.

Filtered Determination

1. Pre-weigh a glass fiber filter of appropriate pore size and pressure filter a sample aliquot (200-1000mL) through it.
2. Air dry the filter and record the dry weight.

% Solids calculation

% solids = aliquot after drying/aliquot before drying x 100

- Samples containing one percent solids or less are prepared as aqueous samples.
- Samples containing greater than one percent solids prepared as solid samples.

Frontier Analytical Laboratory
EXTRACTION SHEET

Project #: 12532 Extraction Date: 2019-07-24 Extraction Chemist: RR

Method/Analysis: EPA 1668 PCB

Procedure: SOX Solvent: DCM (Methylene Chloride)

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS Amt: 10.0uL ID: R190613A Vial: 1 Chemist/Witness/Date	NS Amt: 10.0uL ID: 190510A Vial: 1 Chemist/Witness/Date	CSS Amt: 10.0uL ID: R190613B Vial: 1 Chemist/Witness/Date
04984-001-0001-MB	5.00g	5.00g	RR KC 7.24.19	NA	RR 7.25.19
04984-001-0001-OPR	5.00g	5.00g		RR KC 7.24.19	
12532-011-0001-SA	5.15g	5.04g		NA	
12532-012-0001-SA	5.09g	5.08g			
12532-013-0001-SA	5.54g	~~5.01g~~ 5.43g 7.24.19			
12532-014-0001-SA	5.14g	5.04g			
12532-015-0001-SA	5.09g	5.01g			
12532-016-0001-SA	5.05g	5.05g			
12532-017-0001-SA	5.01g	5.04g			
12532-018-0001-SA	5.03g	5.02g			
12532-019-0001-SA	9.04g	5.01g			
12532-020-0001-SA	8.00g	5.03g			

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

Comments:

Frontier Analytical Laboratory
CLEANUP SHEET

Project #: 12532

Method/Analysis: EPA 1668 PCB

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

Sample ID	Cleanup 1 PCB-MSG	Cleanup 2 NA	Cleanup 3 NA	RS Amt: 10.0uL ID: 190430A Vial: 1
	Chemist/Date	Chemist/Date	Chemist/Date	Chemist/Witness/Date
04984-001-0001-MB	RR 7.25.19	NA	NA	RR 7.25.19
04984-001-0001-OPR				
12532-011-0001-SA				
12532-012-0001-SA				
12532-013-0001-SA				
12532-014-0001-SA				
12532-015-0001-SA				
12532-016-0001-SA				
12532-017-0001-SA				
12532-018-0001-SA				
12532-019-0001-SA				
12532-020-0001-SA				

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

Comments:

FAL ID: 04981-001-0001-MB Filename: 24JUL19Z Sam:4 Acquired: 24-JUL-19 13:58:11 ICal: DAILYFAL4-7-24-19
Client ID: Method Blank ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 5.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	1.19	*		2520	1980	0.303	
13C-PCB-1	1.78e+08	3.19	y	14:32	0.82	1880					94.2
PCB-2	*	*	n	NotFnd	1.22	*		2520	1980	0.305	
PCB-3	*	*	n	NotFnd	1.21	*		2520	1980	0.315	
13C-PCB-3	1.89e+08	3.18	y	16:58	0.85	1930					96.6
PCB-4	*	*	n	NotFnd	1.14	*		1510	9870	1.21	
PCB-10	*	*	n	NotFnd	1.32	*		1510	9870	0.852	
13C-PCB-4	1.35e+08	1.54	y	18:12	0.63	1870					93.7
PCB-9	*	*	n	NotFnd	1.39	*		1510	9870	0.812	
PCB-7	*	*	n	NotFnd	1.42	*		1510	9870	0.795	
PCB-6	*	*	n	NotFnd	1.39	*		1510	9870	0.812	
PCB-8	*	*	n	NotFnd	1.41	*		1510	9870	0.800	
PCB-5	*	*	n	NotFnd	1.37	*		1510	9870	0.822	
PCB-14	*	*	n	NotFnd	1.31	*		1510	9870	0.864	
PCB-11	*	*	n	NotFnd	1.23	*		1510	9870	0.919	
PCB-13	*	*	n	NotFnd	1.26	*		1510	9870	0.895	
PCB-12	*	*	n	NotFnd	1.26	*		1510	9870	0.897	
PCB-15	*	*	n	NotFnd	1.16	*		1510	9870	0.847	
13C-PCB-15	2.30e+08	1.62	y	23:43	0.96	2080					104
PCB-19	*	*	n	NotFnd	1.16	*		1790	1230	0.427	
PCB-30	*	*	n	NotFnd	1.82	*		1790	1230	0.272	
PCB-18	*	*	n	NotFnd	1.20	*		1790	1230	0.414	
PCB-17	*	*	n	NotFnd	1.30	*		1790	1230	0.382	
PCB-27	*	*	n	NotFnd	1.77	*		1790	1230	0.281	
PCB-24	*	*	n	NotFnd	1.77	*		1790	1230	0.281	
PCB-16	*	*	n	NotFnd	1.48	*		1790	1230	0.334	
PCB-32	*	*	n	NotFnd	1.48	*		1790	1230	0.334	
13C-PCB-19	1.04e+08	1.06	y	22:04	0.45	2020					101
13C-PCB-9	2.30e+08	1.61	y	19:53	-	27.0					
PCB-34	*	*	n	NotFnd	1.16	*		2040	1560	0.497	
PCB-23	*	*	n	NotFnd	1.33	*		2040	1560	0.435	
PCB-29	*	*	n	NotFnd	1.33	*		2040	1560	0.435	
PCB-26	*	*	n	NotFnd	1.27	*		2040	1560	0.455	
PCB-25	*	*	n	NotFnd	1.22	*		2040	1560	0.473	
PCB-31	*	*	n	NotFnd	1.20	*		2040	1560	0.482	
PCB-28	*	*	n	NotFnd	1.55	*		2040	1560	0.373	
PCB-20	*	*	n	NotFnd	1.23	*		2040	1560	0.470	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.23	*		2040	1560	0.470	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.23	*		2040	1560	0.470	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.37	*		2040	1560	0.422	
PCB-36	*	*	n	NotFnd	1.27	*		2040	1560	0.456	
PCB-39	*	*	n	NotFnd	1.24	*		2040	1560	0.467	
PCB-38	*	*	n	NotFnd	1.27	*		2040	1560	0.455	
PCB-35	*	*	n	NotFnd	1.12	*		2040	1560	0.518	
PCB-37	*	*	n	NotFnd	1.17	*		2040	1560	0.496	
13C-PCB-37	1.38e+08	1.08	y	30:20	1.46	1870					93.3

PCB-54	*	*	n	NotFnd	1.26	*	1560	1900	0.516	
PCB-50	*	*	n	NotFnd	0.99	*	1560	1900	0.657	
PCB-53	*	*	n	NotFnd	0.98	*	1560	1900	0.664	
PCB-51	*	*	n	NotFnd	1.01	*	1560	1900	0.642	
PCB-45	*	*	n	NotFnd	0.83	*	1560	1900	0.781	
PCB-46	*	*	n	NotFnd	0.81	*	1560	1900	0.804	
PCB-52	*	*	n	NotFnd	1.05	*	1560	1900	0.618	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	1.05	*	1560	1900	0.618	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.20	*	1560	1900	0.541	
PCB-43	*	*	n	NotFnd	0.91	*	1560	1900	0.716	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.91	*	1560	1900	0.716	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.92	*	1560	1900	0.709	
PCB-48	*	*	n	NotFnd	1.19	*	1560	1900	0.548	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	1.19	*	1560	1900	0.548	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.20	*	1560	1900	0.541	
PCB-62	*	*	n	NotFnd	1.16	*	1560	1900	0.561	
PCB-44	*	*	n	NotFnd	0.78	*	1560	1900	0.837	
PCB-42	*	*	n	NotFnd	1.01	*	1560	1900	0.644	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	1.01	*	1560	1900	0.644	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	1.14	*	1560	1900	0.569	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	1.14	*	1560	1900	0.569	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	1.14	*	1560	1900	0.569	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	1.14	*	1560	1900	0.569	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	1.33	*	1560	1900	0.491	
PCB-40	*	*	n	NotFnd	0.71	*	1560	1900	0.921	
PCB-57	*	*	n	NotFnd	1.21	*	1560	1900	0.536	
PCB-67	*	*	n	NotFnd	1.19	*	1560	1900	0.549	
PCB-58	*	*	n	NotFnd	1.22	*	1560	1900	0.534	
PCB-63	*	*	n	NotFnd	1.22	*	1560	1900	0.534	
PCB-74	*	*	n	NotFnd	1.22	*	1560	1900	0.536	
PCB-61	*	*	n	NotFnd	1.10	*	1560	1900	0.591	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	1.10	*	1560	1900	0.591	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.25	*	1560	1900	0.521	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.25	*	1560	1900	0.521	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.40	*	1560	1900	0.466	
PCB-55	*	*	n	NotFnd	1.22	*	1560	1900	0.533	
13C-PCB-54	1.11e+08	0.83	y	25:37	1.21	1800				90.2
PCB-104	*	*	n	NotFnd	1.12	*	840	784	0.299	
PCB-96	*	*	n	NotFnd	1.06	*	840	784	0.316	
PCB-103	*	*	n	NotFnd	0.86	*	840	784	0.388	
PCB-100	*	*	n	NotFnd	0.86	*	840	784	0.389	
PCB-94	*	*	n	NotFnd	0.72	*	840	784	0.465	
PCB-98	*	*	n	NotFnd	0.78	*	840	784	0.428	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.78	*	840	784	0.428	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.73	*	840	784	0.457	
PCB-93	*	*	n	NotFnd	0.72	*	840	784	0.462	
PCB-88	*	*	n	NotFnd	0.84	*	840	784	0.398	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.84	*	840	784	0.398	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.95	*	840	784	0.353	
13C-PCB-104	1.00e+08	1.60	y	30:01	1.00	1980				98.8
13C-PCB-28	1.87e+08	1.05	y	26:40	1.75	2120				106
13C-PCB-52	1.01e+08	0.83	y	28:55	-	25.3				

PCB-56	*	*	n	NotFnd	1.14	*	948	992	0.368	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.14	*	948	992	0.368	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.24	*	948	992	0.337	
PCB-78	*	*	n	NotFnd	1.20	*	948	992	0.350	
PCB-81	*	*	n	NotFnd	1.21	*	948	992	0.346	
13C-PCB-81	1.10e+08	0.80	y	36:06	1.53	2030				101
PCB-77	*	*	n	NotFnd	1.04	*	948	992	0.399	
13C-PCB-77	1.11e+08	0.81	y	36:39	1.54	2040				102
PCB-155	*	*	n	NotFnd	1.05	*	592	440	0.204	
PCB-150	*	*	n	NotFnd	0.95	*	592	440	0.225	
PCB-152	*	*	n	NotFnd	0.93	*	592	440	0.232	
PCB-145	*	*	n	NotFnd	0.93	*	592	440	0.230	
PCB-136	*	*	n	NotFnd	0.84	*	592	440	0.257	
PCB-148	*	*	n	NotFnd	0.75	*	592	440	0.288	
PCB-154	*	*	n	NotFnd	0.77	*	592	440	0.277	
13C-PCB-155	9.68e+07	1.28	y	34:10	1.35	2010				101
13C-PCB-111	7.95e+07	1.60	y	36:15	1.21	1850				92.5
13C-PCB-101	7.10e+07	1.58	y	34:37	-	22.2				
PCB-84	*	*	n	NotFnd	0.85	*	1070	1310	0.714	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.85	*	1070	1310	0.714	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.79	*	1070	1310	0.764	
PCB-90	*	*	n	NotFnd	0.92	*	1070	1310	0.661	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.92	*	1070	1310	0.661	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*	1070	1310	0.554	
PCB-99	*	*	n	NotFnd	0.96	*	1070	1310	0.632	
PCB-119	*	*	n	NotFnd	1.17	*	1070	1310	0.516	
PCB-83	*	*	n	NotFnd	0.92	*	1070	1310	0.659	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.92	*	1070	1310	0.659	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.09	*	1070	1310	0.556	
PCB-97	*	*	n	NotFnd	0.75	*	1070	1310	0.808	
PCB-86	*	*	n	NotFnd	0.83	*	1070	1310	0.729	
PCB-125	*	*	n	NotFnd	1.00	*	1070	1310	0.605	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	1.00	*	1070	1310	0.605	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	1.00	*	1070	1310	0.605	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.12	*	1070	1310	0.538	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.12	*	1070	1310	0.538	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.98	*	1070	1310	0.618	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.98	*	1070	1310	0.618	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.21	*	1070	1310	0.500	
PCB-110	*	*	n	NotFnd	1.12	*	1070	1310	0.540	
PCB-82	*	*	n	NotFnd	0.65	*	1070	1310	0.929	
PCB-124	*	*	n	NotFnd	1.16	*	976	1810	0.609	
PCB-108	*	*	n	NotFnd	1.12	*	976	1810	0.635	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.12	*	976	1810	0.635	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	0.97	*	976	1810	0.754	
13C-PCB-123	8.94e+07	1.59	y	38:18	1.48	2140				107
PCB-118	*	*	n	NotFnd	1.06	*	976	1810	0.611	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.06	*	976	1810	0.611	Co-elute PCB 118
13C-PCB-118	9.47e+07	1.58	y	38:28	1.54	2180				109
PCB-114	*	*	n	NotFnd	1.07	*	976	1810	0.719	
13C-PCB-114	8.55e+07	1.60	y	39:04	1.46	2070				104
PCB-122	*	*	n	NotFnd	1.09	*	976	1810	0.649	
PCB-105	*	*	n	NotFnd	1.14	*	976	1810	0.610	
13C-PCB-105	8.80e+07	1.58	y	39:53	1.40	2230				112

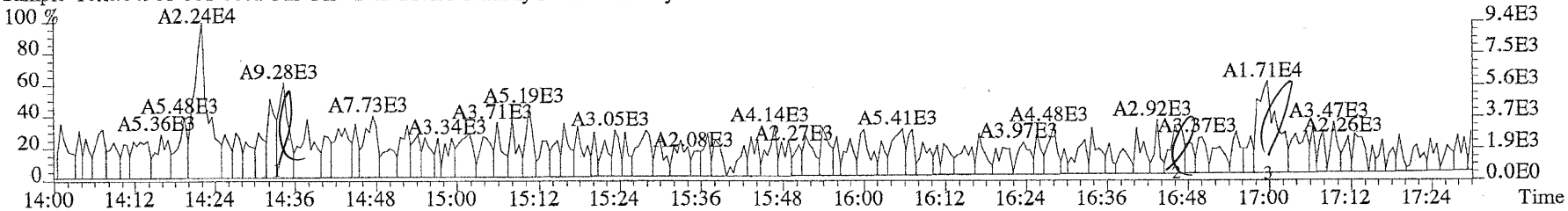
PCB-127	*	*	n	NotFnd	1.00	*		976	1810	0.710	
PCB-126	*	*	n	NotFnd	1.10	*		976	1810	0.748	
13C-PCB-126	7.99e+07	1.59	y	42:00	1.32	2140					107
PCB-151	*	*	n	NotFnd	1.10	*		624	584	0.345	
PCB-135	*	*	n	NotFnd	1.01	*		624	584	0.374	
PCB-144	*	*	n	NotFnd	1.25	*		624	584	0.303	
PCB-147	*	*	n	NotFnd	1.15	*		624	584	0.330	
PCB-139	*	*	n	NotFnd	1.18	*		624	584	0.322	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	1.18	*		624	584	0.322	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	1.16	*		624	584	0.327	
PCB-143	*	*	n	NotFnd	0.96	*		624	584	0.396	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.96	*		624	584	0.396	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.94	*		624	584	0.404	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.94	*		624	584	0.404	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.99	*		624	584	0.384	
PCB-165	*	*	n	NotFnd	1.26	*		624	584	0.302	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.26	*		624	584	0.302	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	1.15	*		624	584	0.330	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	1.15	*		624	584	0.330	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	1.27	*		624	584	0.298	
PCB-168	*	*	n	NotFnd	1.35	*		624	584	0.280	
PCB-141	*	*	n	NotFnd	1.02	*		624	584	0.372	
PCB-137	*	*	n	NotFnd	0.94	*		624	584	0.404	
PCB-130	*	*	n	NotFnd	0.89	*		624	584	0.426	
PCB-138	*	*	n	NotFnd	1.25	*		624	584	0.304	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.25	*		624	584	0.304	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.25	*		624	584	0.304	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.33	*		624	584	0.285	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.33	*		624	584	0.285	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.85	*		624	584	0.445	
PCB-166	*	*	n	NotFnd	1.28	*		624	584	0.296	
PCB-159	*	*	n	NotFnd	1.37	*		624	584	0.278	
PCB-128	*	*	n	NotFnd	1.08	*		624	584	0.352	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	1.08	*		624	584	0.352	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	1.18	*		624	584	0.298	
13C-PCB-167	7.27e+07	1.30	y	43:22	1.13	2290					114
PCB-156	*	*	n	NotFnd	1.24	*		624	584	0.312	
13C-PCB-156	6.69e+07	1.32	y	44:36	1.06	2230					112
PCB-157	*	*	n	NotFnd	1.18	*		624	584	0.333	
13C-PCB-157	6.93e+07	1.30	y	44:51	1.07	2300					115
PCB-169	*	*	n	NotFnd	1.12	*		624	584	0.350	
13C-PCB-169	5.64e+07	1.27	y	46:43	1.00	2000					100

FAL ID: 04981-001-0001-MB Filename: 24JUL19Z Sam:4 Acquired: 24-JUL-19 13:58:11 ICal: DAILYFAL4-7-24-19
Client ID: Method Blank ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 5.000

PCB-188	*	*	n	NotFnd	1.03	*	812	789	0.443	
13C-PCB-188	7.75e+07	1.06	y	39:40	1.26	2180				109
PCB-184	*	*	n	NotFnd	1.18	*	812	789	0.362	
PCB-179	*	*	n	NotFnd	1.11	*	812	789	0.384	
PCB-176	*	*	n	NotFnd	1.08	*	812	789	0.397	
PCB-186	*	*	n	NotFnd	1.08	*	812	789	0.396	
PCB-178	*	*	n	NotFnd	0.74	*	812	789	0.575	
PCB-175	*	*	n	NotFnd	0.76	*	812	789	0.564	
PCB-187	*	*	n	NotFnd	0.82	*	812	789	0.519	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.82	*	812	789	0.519	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.80	*	812	789	0.538	
PCB-185	*	*	n	NotFnd	0.71	*	812	789	0.605	
PCB-174	*	*	n	NotFnd	0.73	*	812	789	0.585	
PCB-181	*	*	n	NotFnd	0.66	*	812	789	0.649	
PCB-177	*	*	n	NotFnd	0.64	*	812	789	0.663	
PCB-171	*	*	n	NotFnd	0.69	*	812	789	0.623	
PCB-173	*	*	n	NotFnd	0.62	*	812	789	0.693	
PCB-172	*	*	n	NotFnd	0.64	*	812	789	0.673	
PCB-192	*	*	n	NotFnd	0.84	*	812	789	0.509	
PCB-180	*	*	n	NotFnd	0.65	*	812	789	0.661	
PCB-193	*	*	n	NotFnd	0.90	*	812	789	0.477	
PCB-191	*	*	n	NotFnd	0.83	*	812	789	0.513	
PCB-170	*	*	n	NotFnd	0.60	*	812	789	0.713	
PCB-190	*	*	n	NotFnd	0.85	*	812	789	0.506	
PCB-189	*	*	n	NotFnd	1.06	*	812	789	0.367	
13C-PCB-189	5.95e+07	1.06	y	48:24	0.96	2200				110
PCB-202	*	*	n	NotFnd	1.03	*	566	488	0.378	
PCB-201	*	*	n	NotFnd	1.09	*	566	488	0.356	
PCB-204	*	*	n	NotFnd	1.05	*	566	488	0.367	
PCB-197	*	*	n	NotFnd	1.09	*	566	488	0.354	
PCB-200	*	*	n	NotFnd	1.04	*	566	488	0.372	
PCB-198	*	*	n	NotFnd	0.70	*	566	488	0.552	
PCB-199	*	*	n	NotFnd	0.70	*	566	488	0.556	
PCB-203	*	*	n	NotFnd	0.83	*	566	488	0.467	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.83	*	566	488	0.467	Co-elute PCB 203
13C-PCB-202	5.73e+07	0.92	y	44:46	0.89	2290				115
13C-PCB-178	4.71e+07	1.07	y	42:18	0.78	2130				107
13C-PCB-138	5.64e+07	1.27	y	46:43	-	20.7				
PCB-195	*	*	n	NotFnd	0.67	*	840	1230	0.637	
PCB-194	*	*	n	NotFnd	0.84	*	840	1230	0.512	
PCB-205	*	*	n	NotFnd	1.06	*	840	1230	0.405	
13C-PCB-205	7.01e+07	0.90	y	50:03	1.30	2010				101
PCB-208	*	*	n	NotFnd	1.09	*	540	654	0.273	
13C-PCB-208	6.10e+07	0.81	y	49:08	1.05	2170				109
PCB-207	*	*	n	NotFnd	1.22	*	540	654	0.262	
PCB-206	*	*	n	NotFnd	1.08	*	540	654	0.320	
13C-PCB-206	4.89e+07	0.81	y	51:16	0.89	2050				102
PCB-209	*	*	n	NotFnd	1.14	*	596	668	0.274	
13C-PCB-209	6.54e+07	1.18	y	52:27	1.10	2210				110
13C-PCB-194	5.36e+07	0.91	y	49:48	-	20.5				

Analyst: _____ Date: 7/25/19

File:24JUL19Z #1-783 Acq:24-JUL-2019 13:58:11 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:04981-001-0001-MB File Text:Frontier Analytical Laboratory



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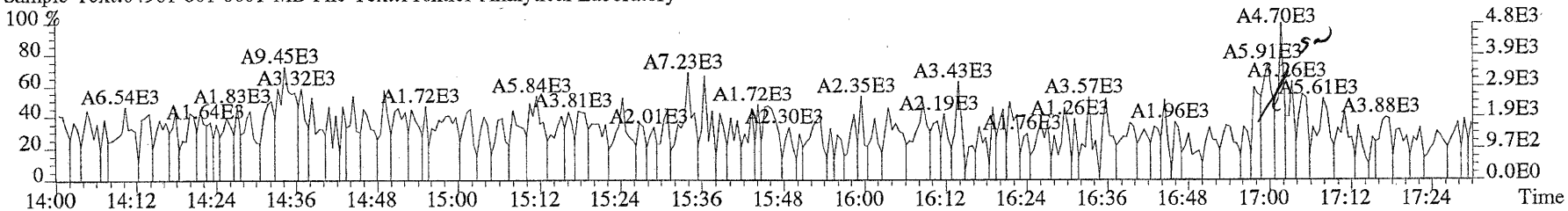
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



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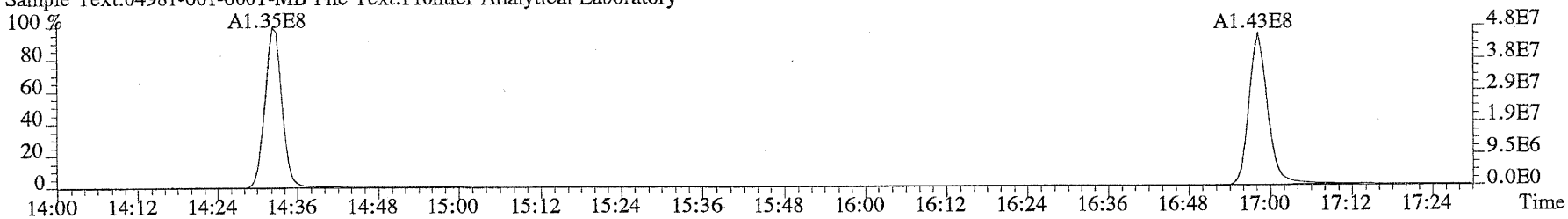
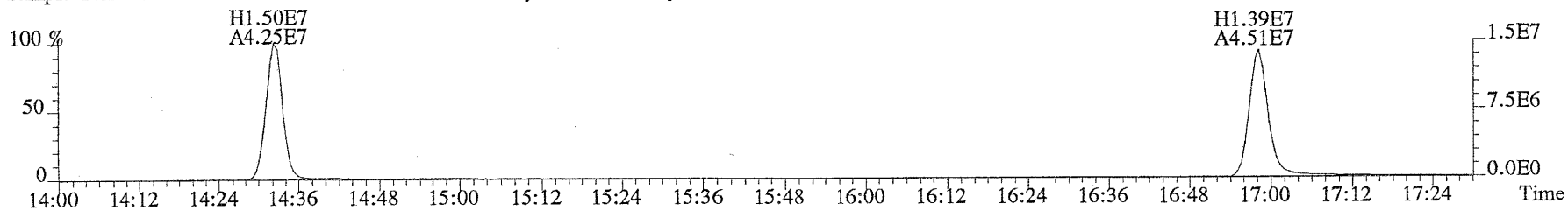
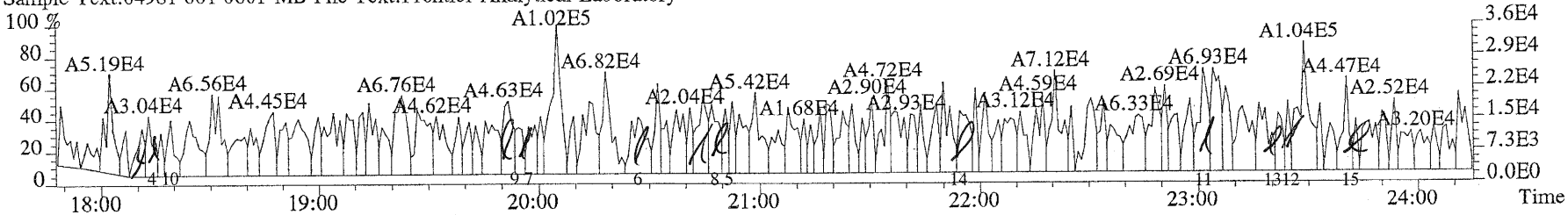


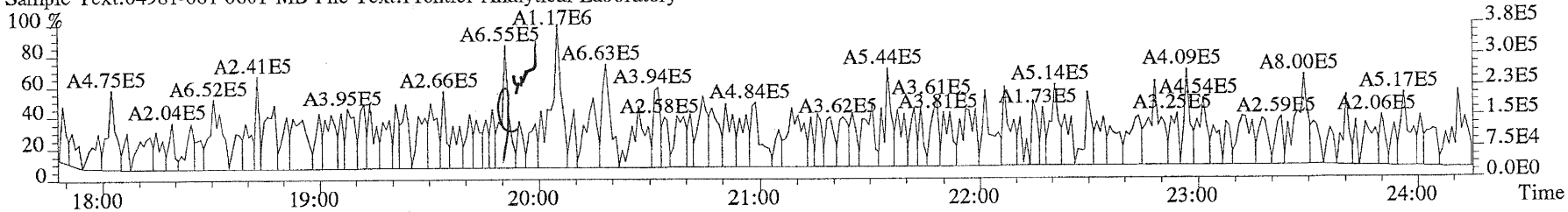
File:24JUL19Z #1-783 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



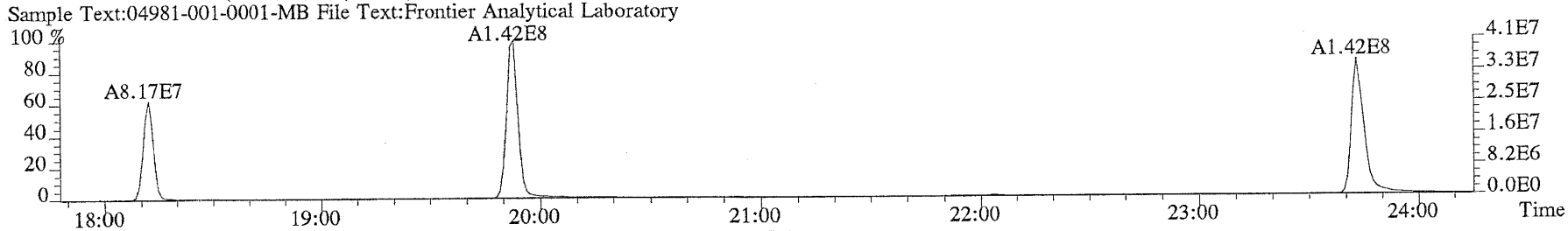
File:24JUL19Z #1-521 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-521 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-521 Acq:24-JUL-2019 13:58:11 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:04981-001-0001-MB File Text:Frontier Analytical Laboratory



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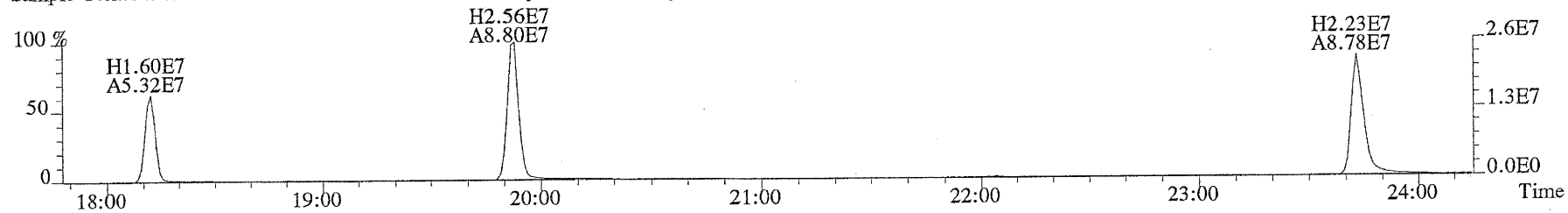
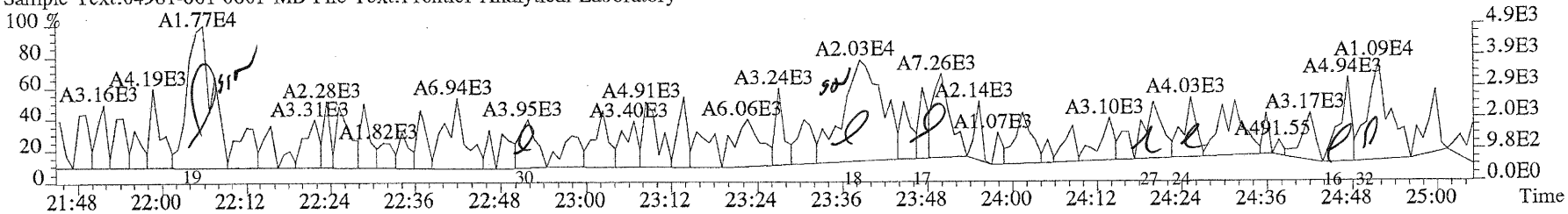
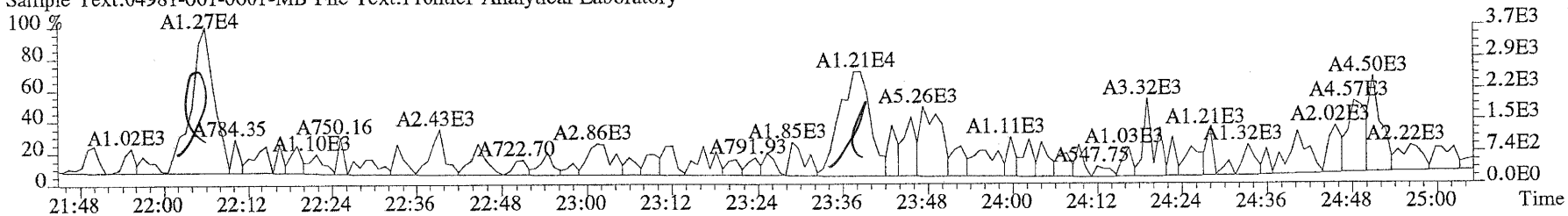
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



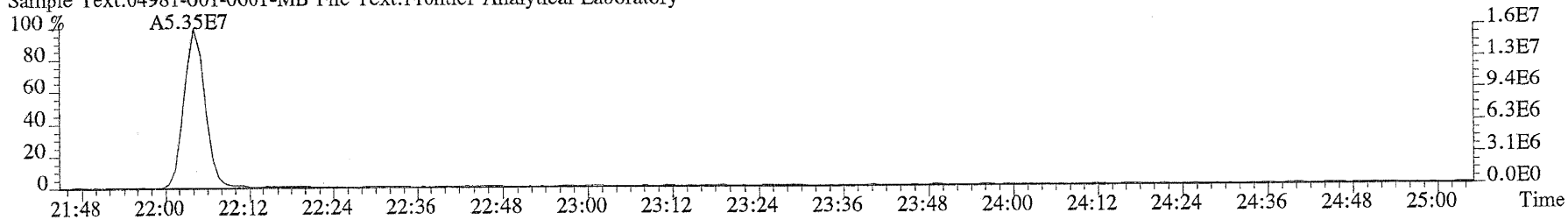
File:24JUL19Z #1-521 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



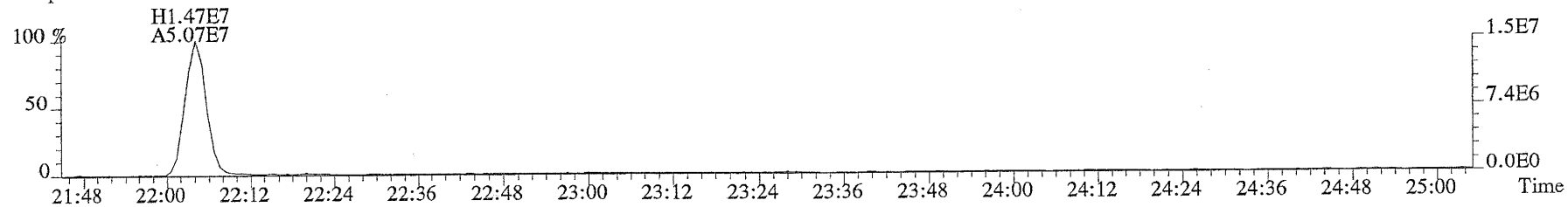
File:24JUL19Z #1-521 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



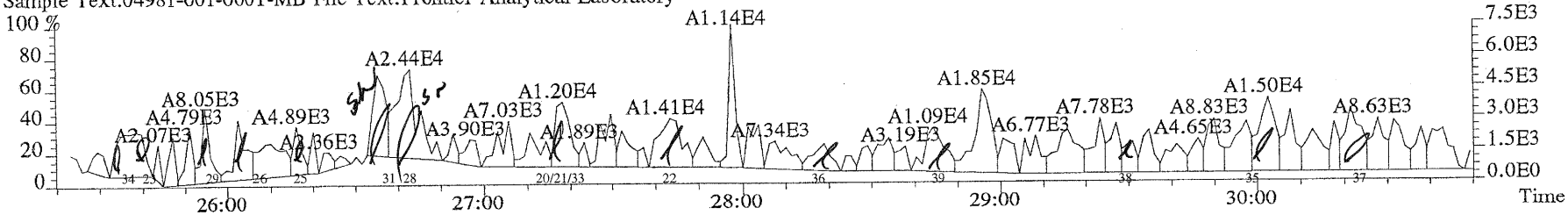
File:24JUL19Z #1-521 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



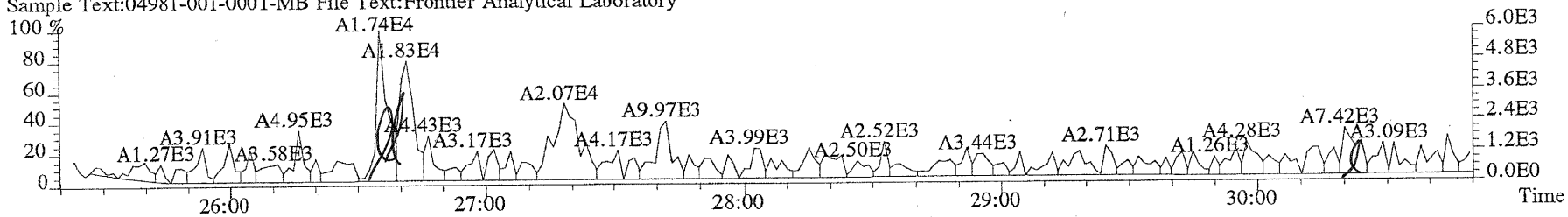
File:24JUL19Z #1-521 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



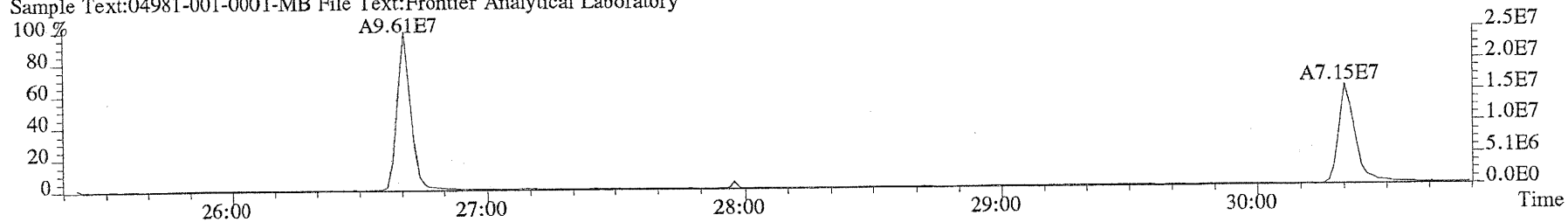
File:24JUL19Z #1-401 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



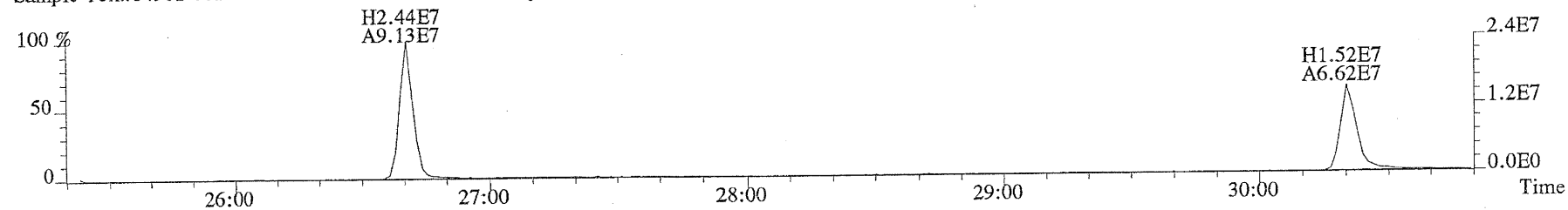
File:24JUL19Z #1-401 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



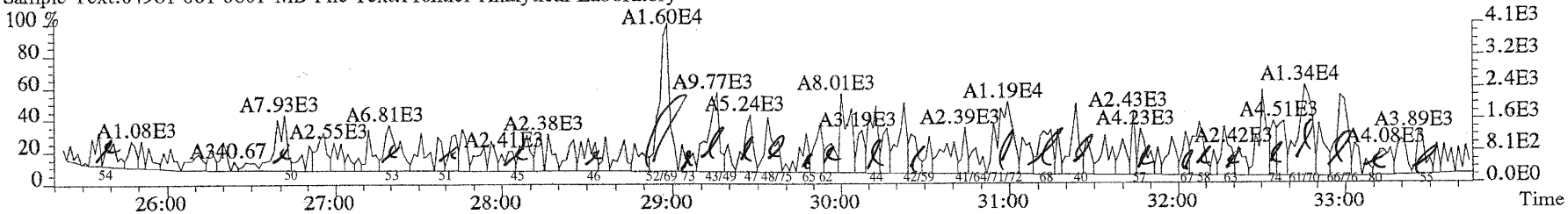
File:24JUL19Z #1-401 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



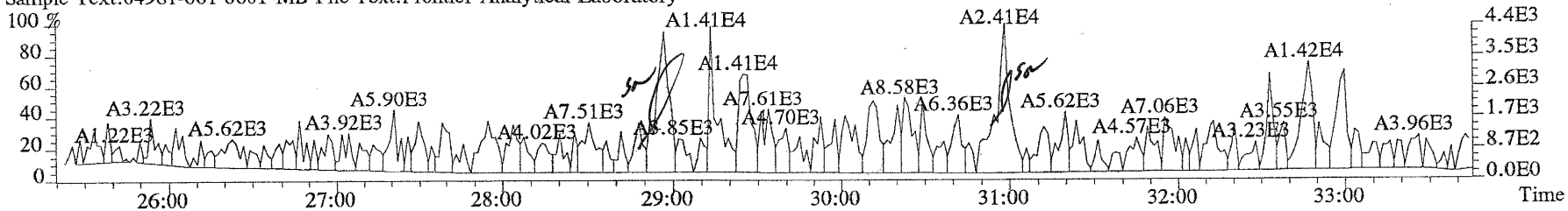
File:24JUL19Z #1-401 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



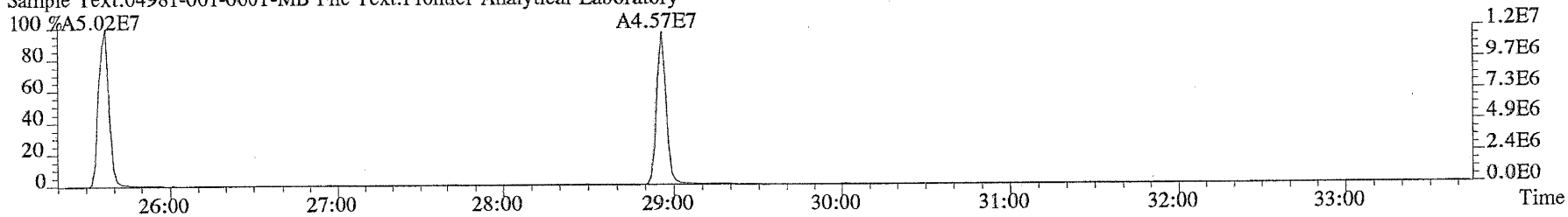
File:24JUL19Z #1-401 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



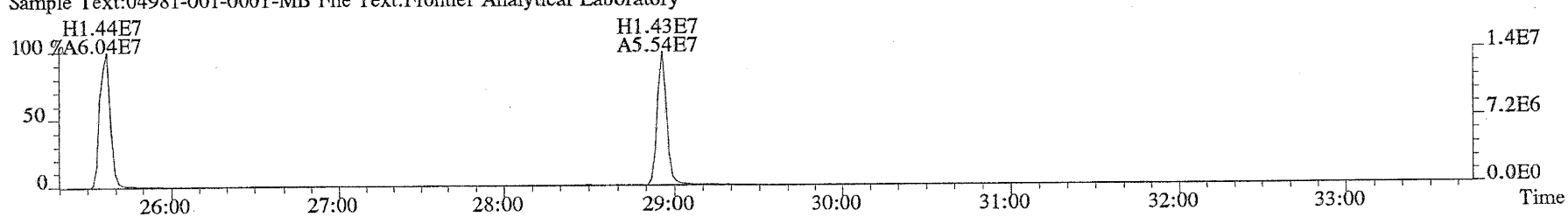
File:24JUL19Z #1-401 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



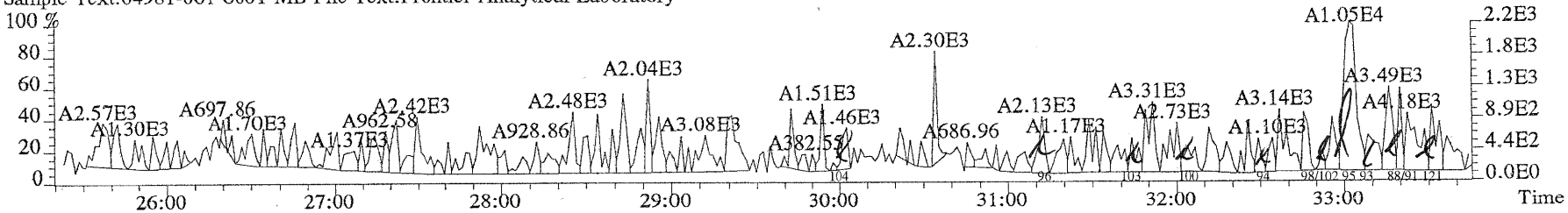
File:24JUL19Z #1-401 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



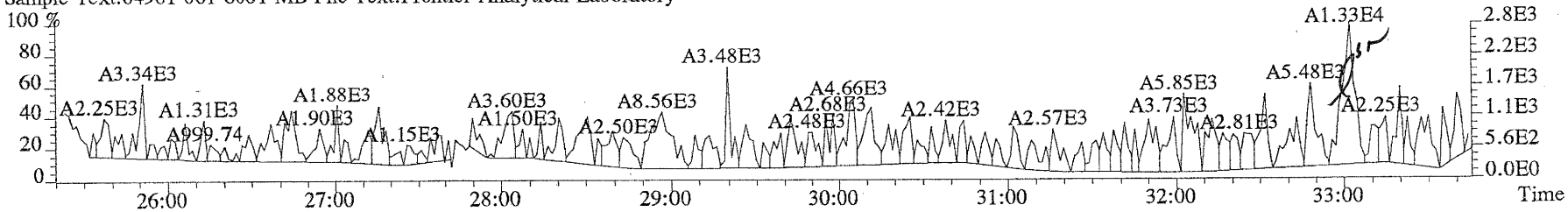
File:24JUL19Z #1-401 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



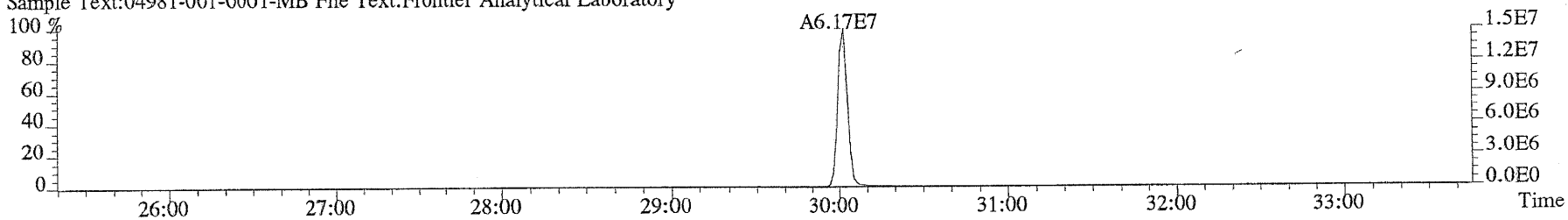
File:24JUL19Z #1-401 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



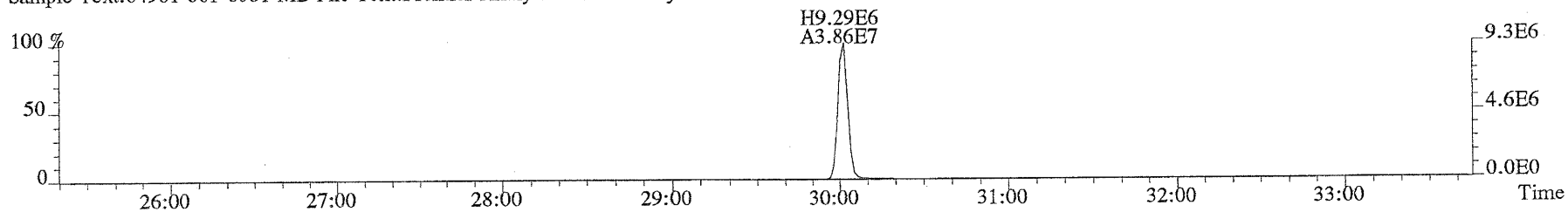
File:24JUL19Z #1-401 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



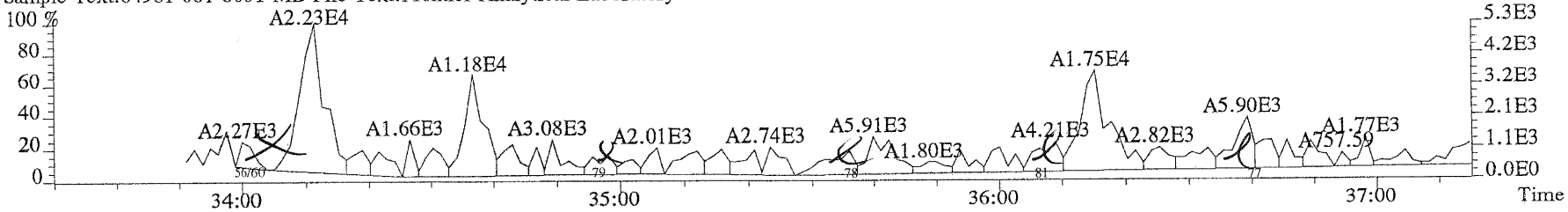
File:24JUL19Z #1-401 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



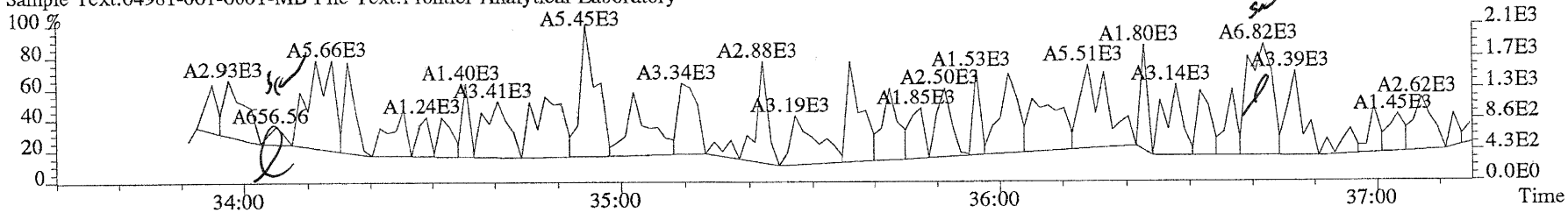
File:24JUL19Z #1-401 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



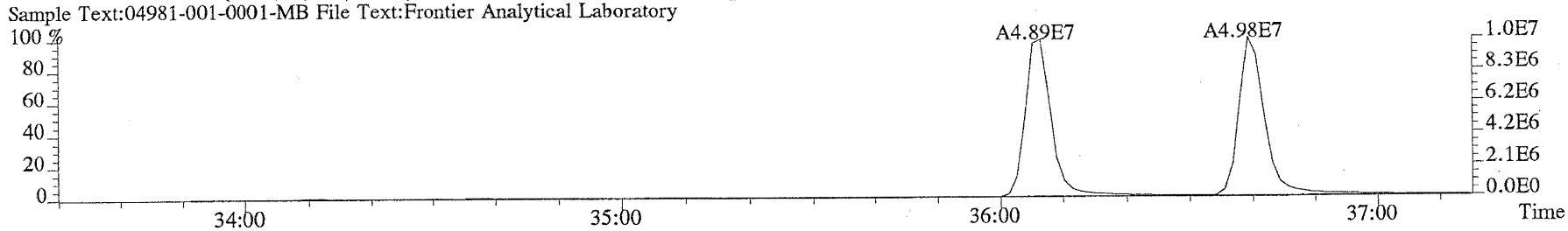
File:24JUL19Z #1-180 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



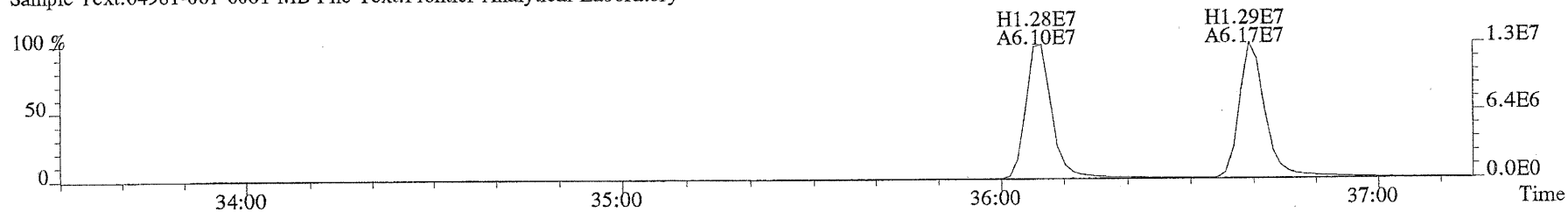
File:24JUL19Z #1-180 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



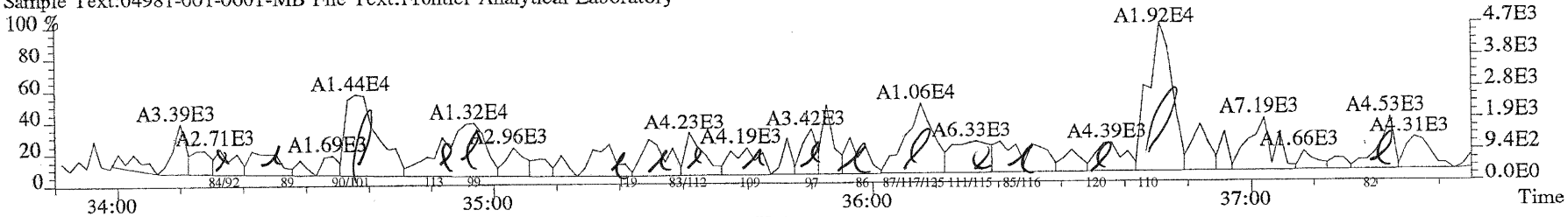
File:24JUL19Z #1-180 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



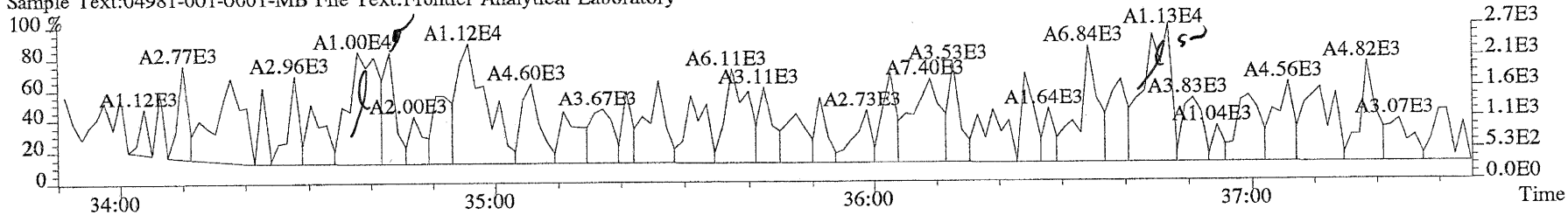
File:24JUL19Z #1-180 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



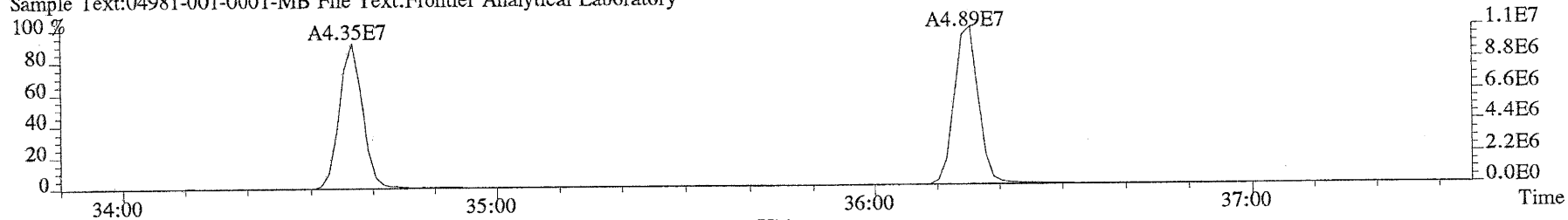
File:24JUL19Z #1-180 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



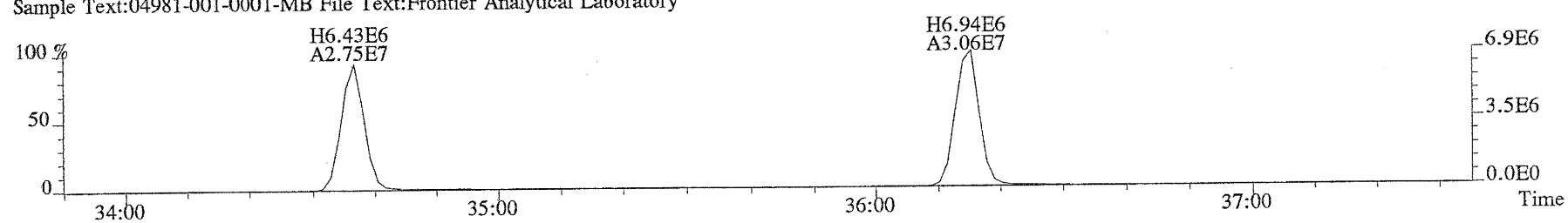
File:24JUL19Z #1-180 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



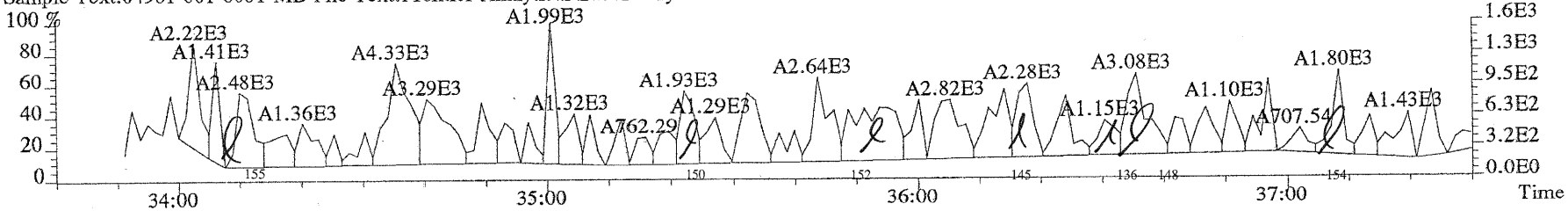
File:24JUL19Z #1-180 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



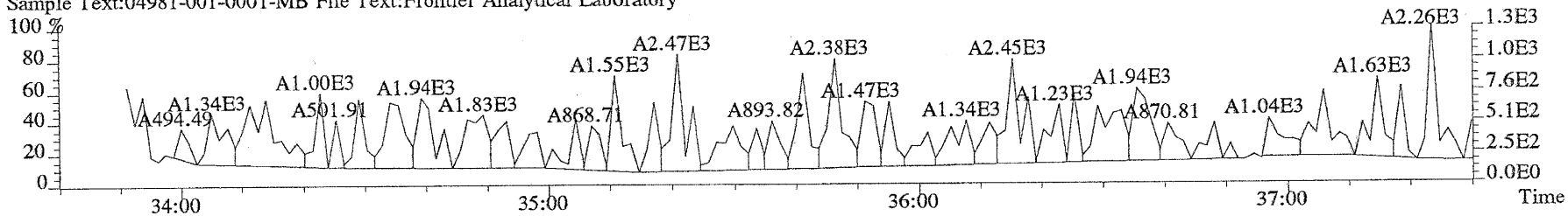
File:24JUL19Z #1-180 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



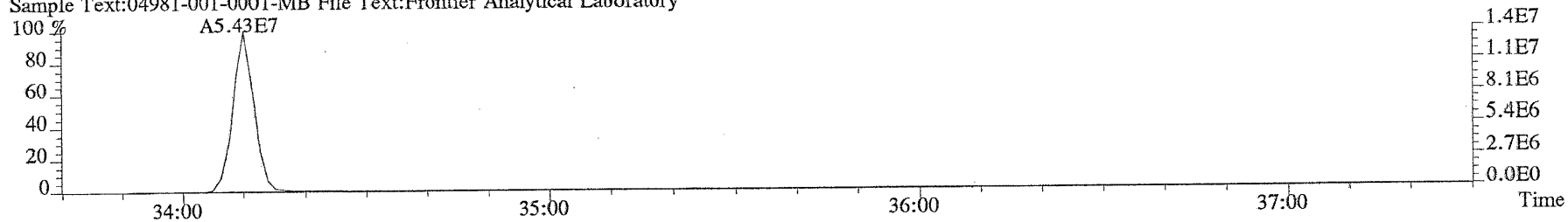
File:24JUL19Z #1-180 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



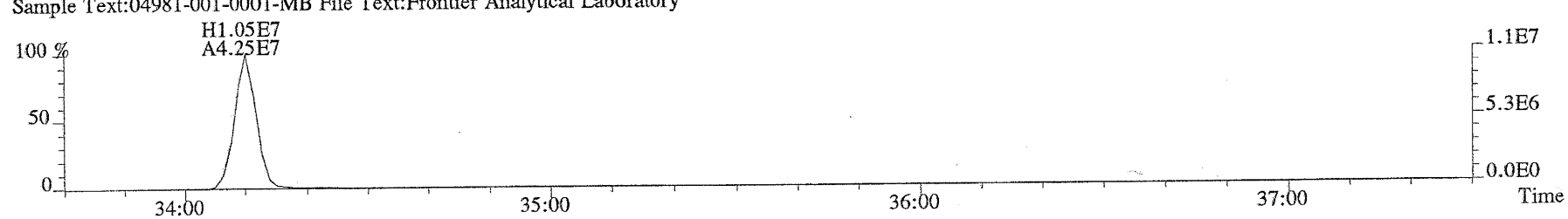
File:24JUL19Z #1-180 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



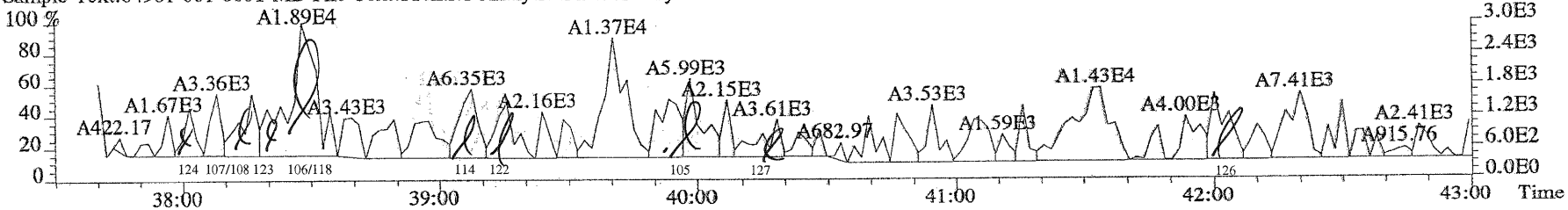
File:24JUL19Z #1-180 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



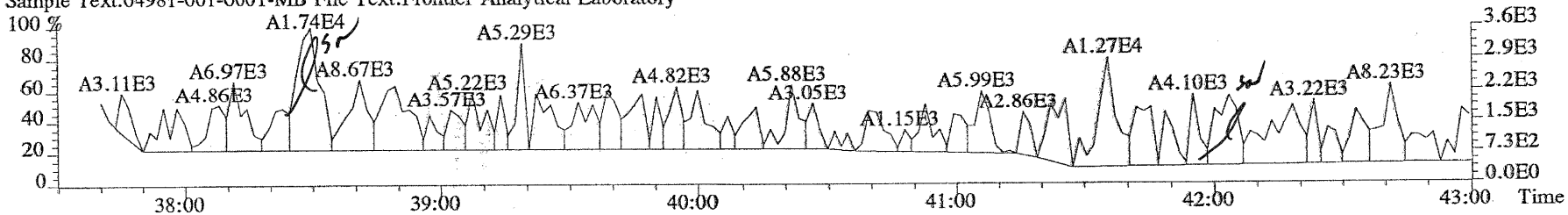
File:24JUL19Z #1-180 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



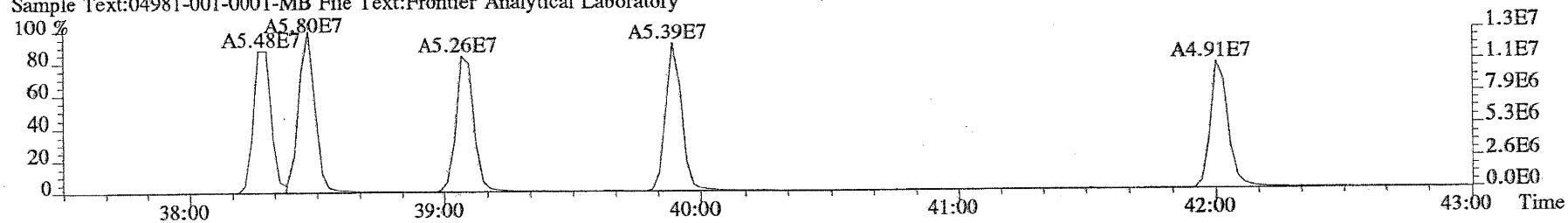
File:24JUL19Z #1-405 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 13:58:11 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:04981-001-0001-MB File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 13:58:11 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:04981-001-0001-MB File Text:Frontier Analytical Laboratory



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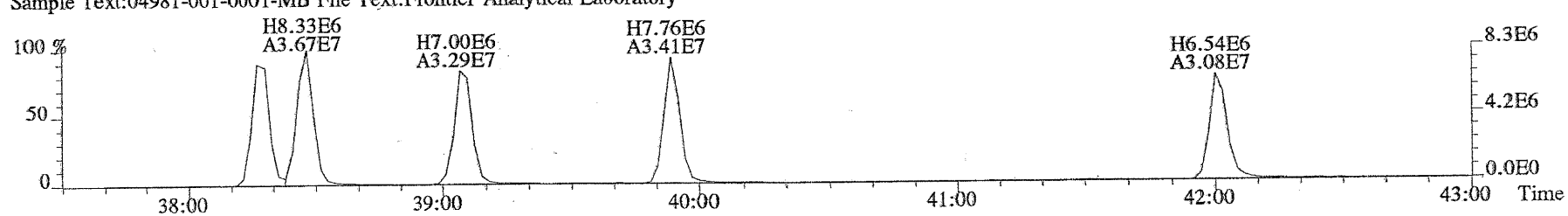
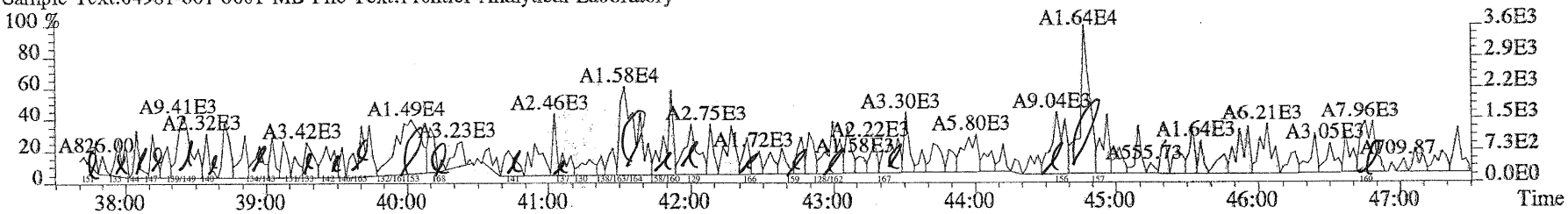
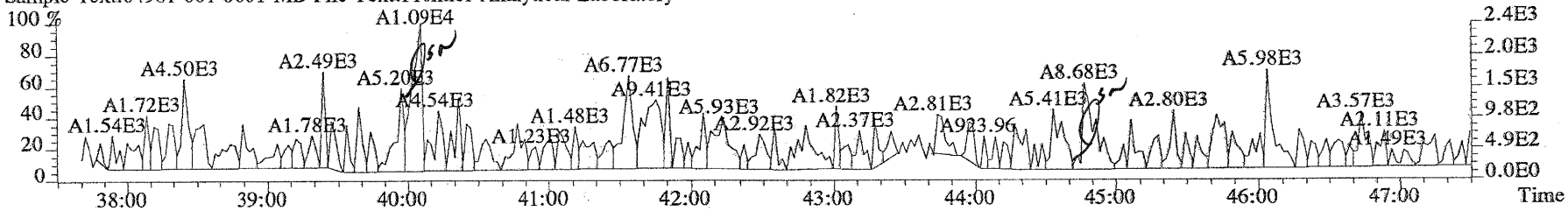
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



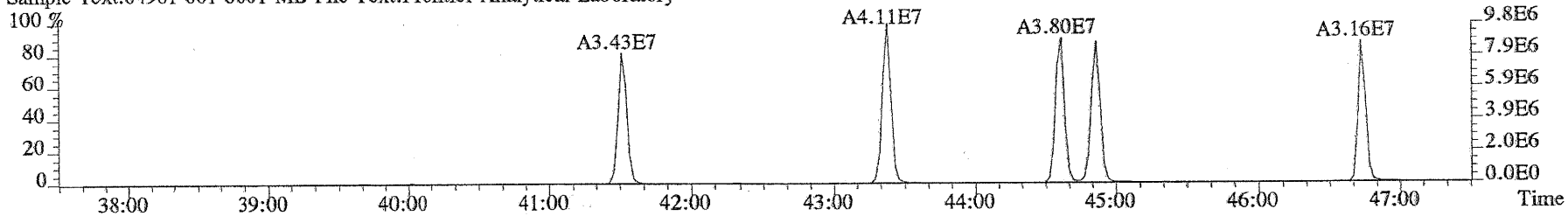
File:24JUL19Z #1-405 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



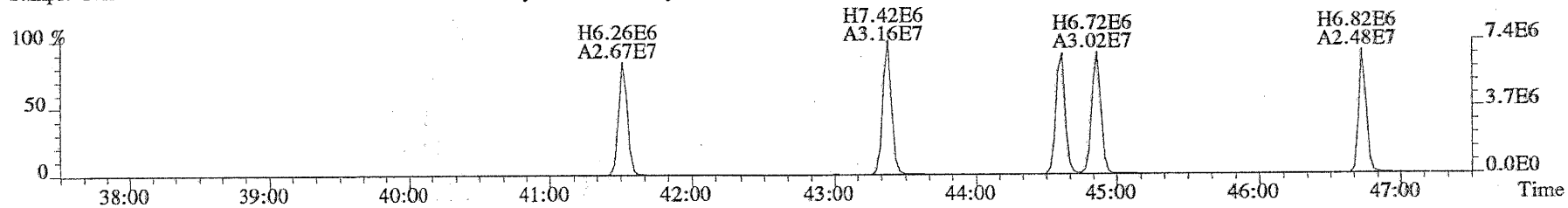
File:24JUL19Z #1-405 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



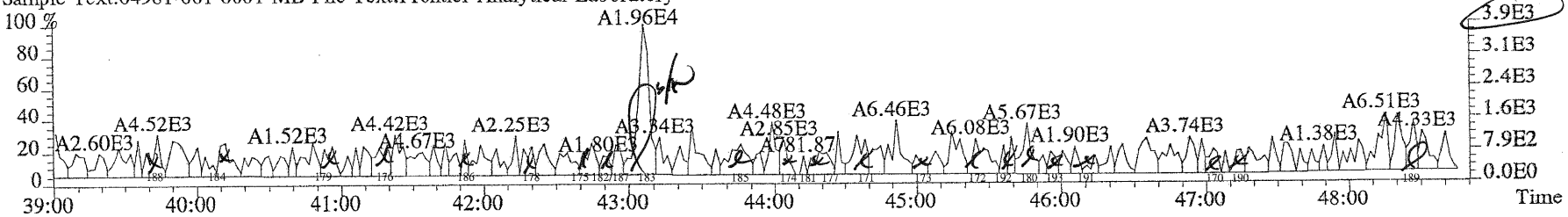
File:24JUL19Z #1-405 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



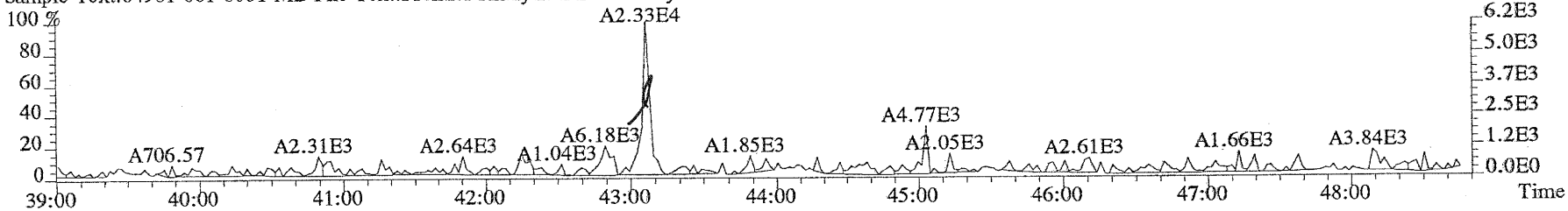
File:24JUL19Z #1-405 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



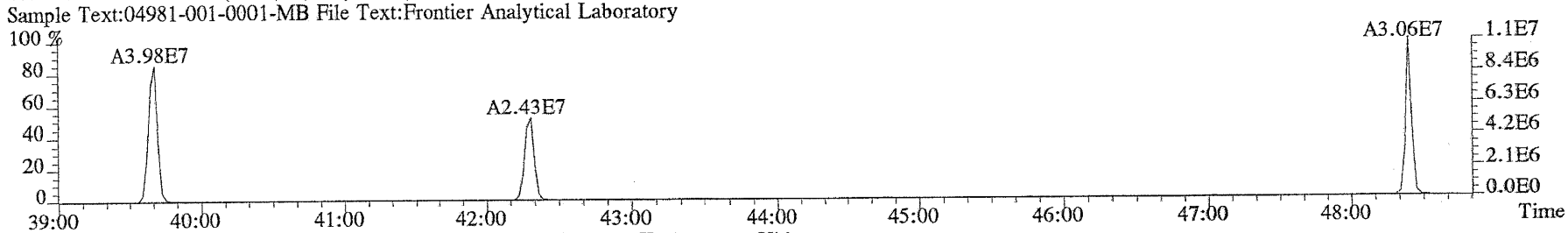
File:24JUL19Z #1-405 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



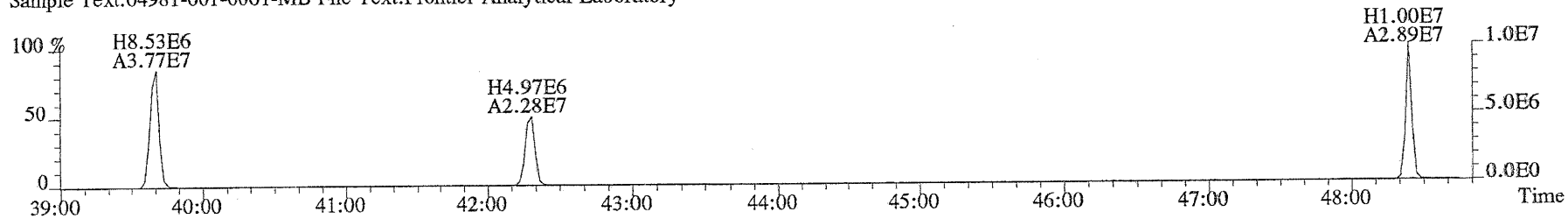
File:24JUL19Z #1-405 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



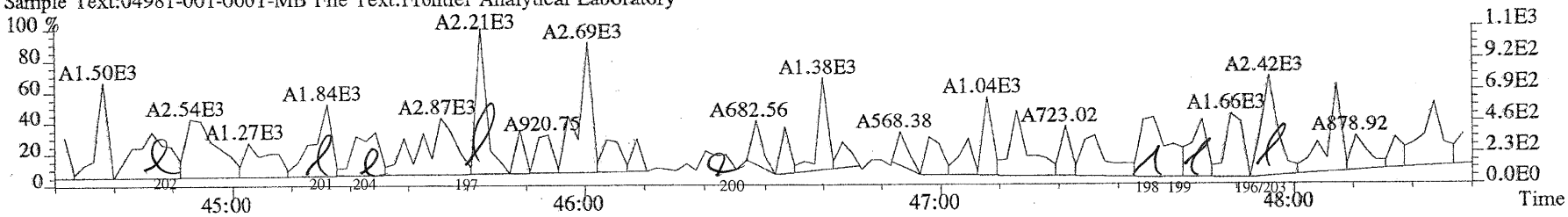
File:24JUL19Z #1-405 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



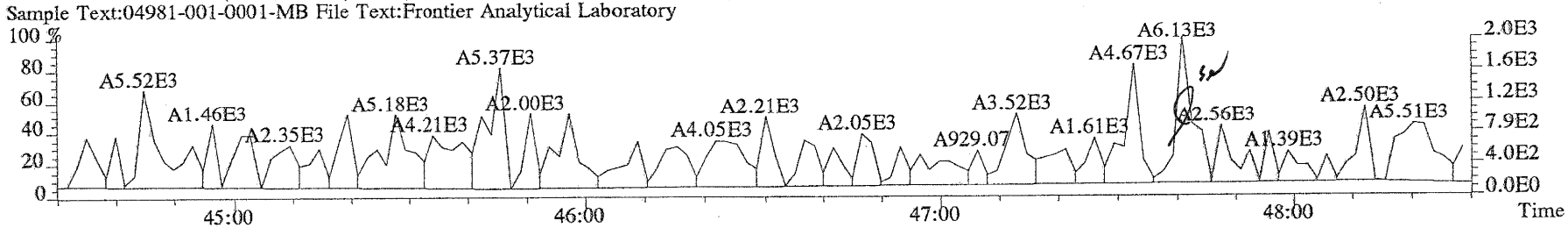
File:24JUL19Z #1-405 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



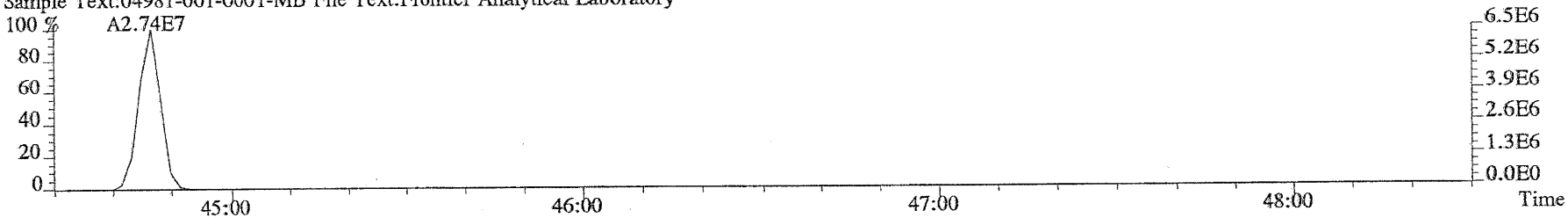
File:24JUL19Z #1-405 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



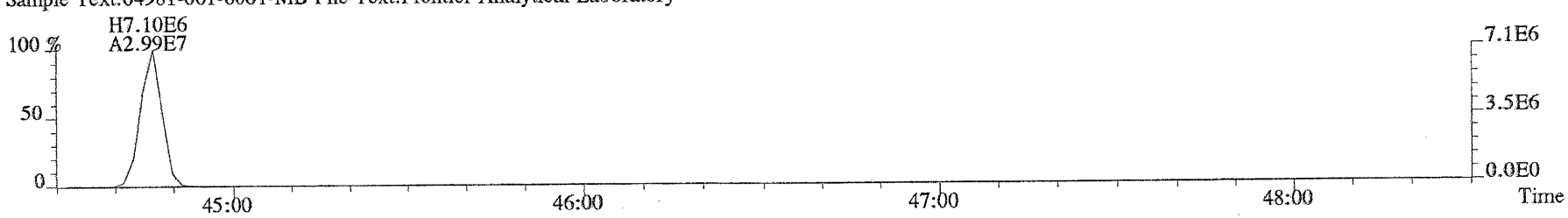
File:24JUL19Z #1-405 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



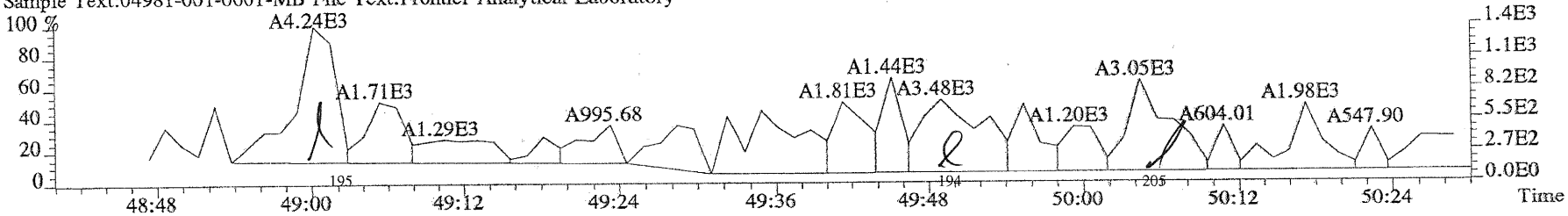
File:24JUL19Z #1-405 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



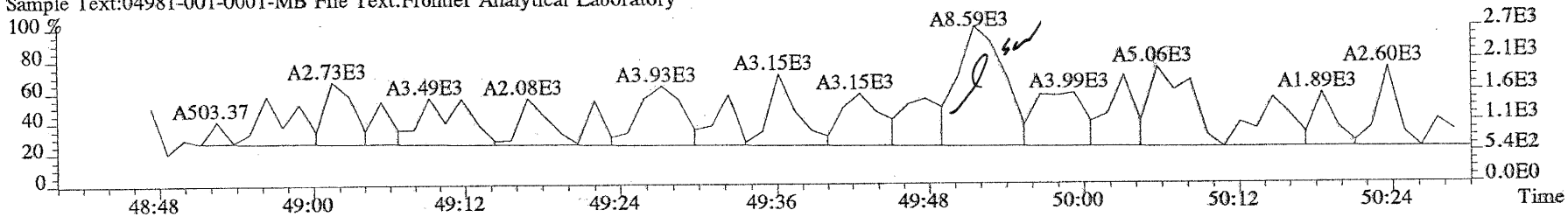
File:24JUL19Z #1-405 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



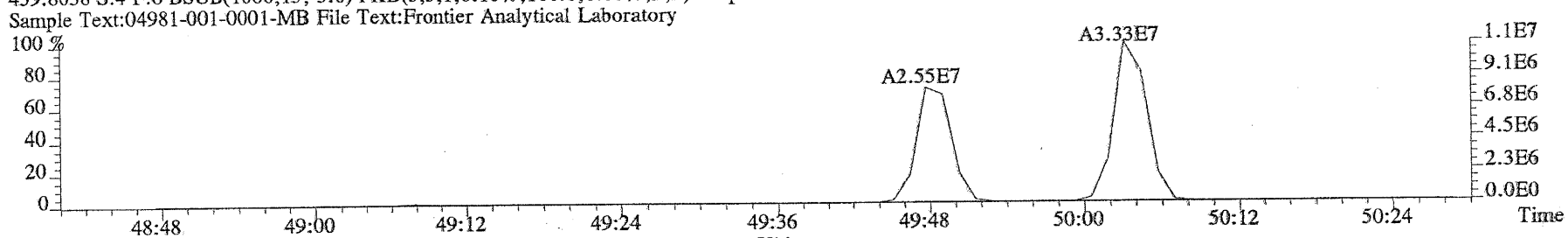
File:24JUL19Z #1-315 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



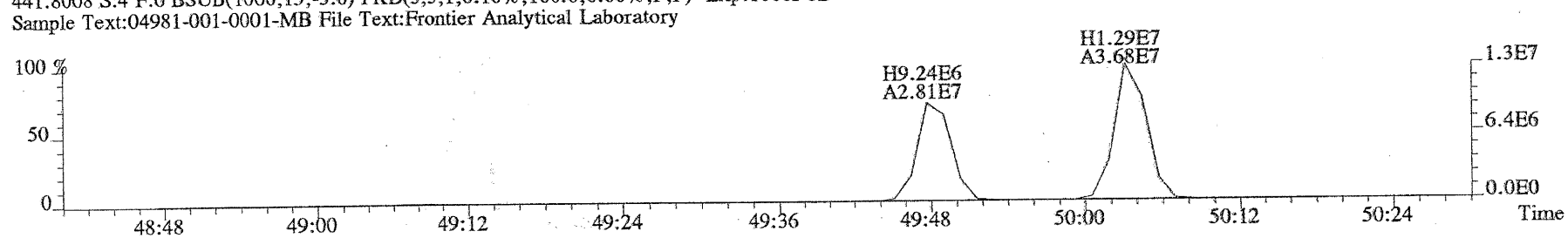
File:24JUL19Z #1-315 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



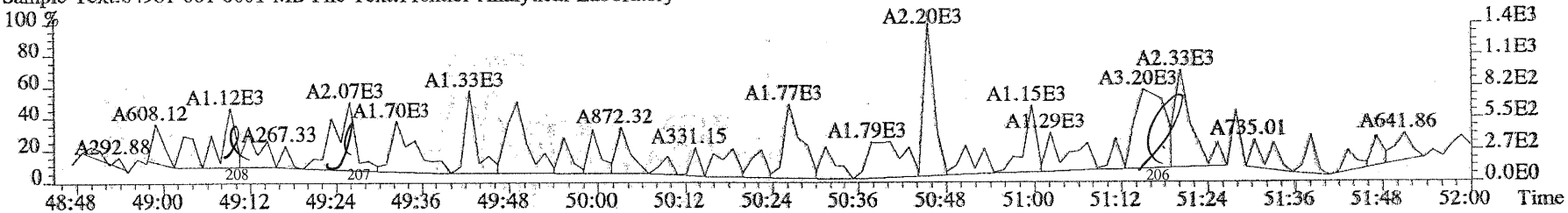
File:24JUL19Z #1-315 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



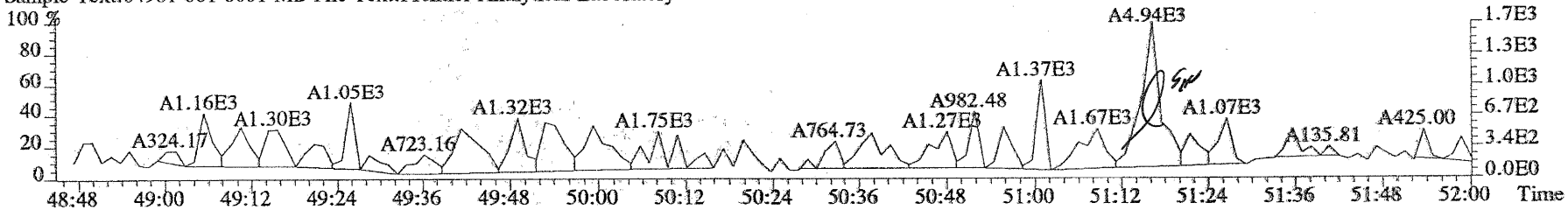
File:24JUL19Z #1-315 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



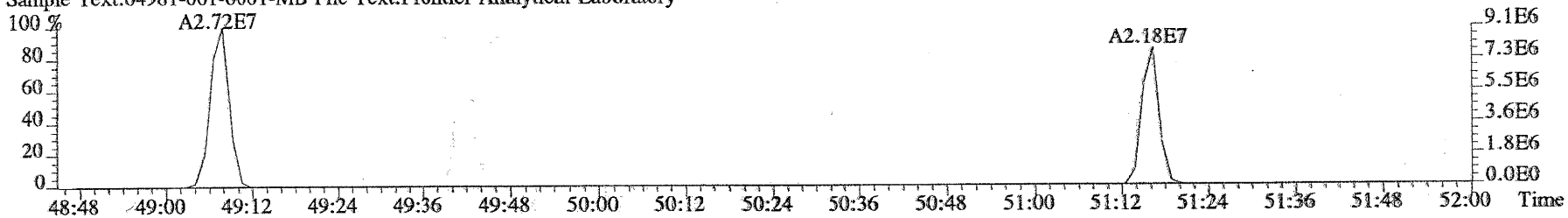
File:24JUL19Z #1-315 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



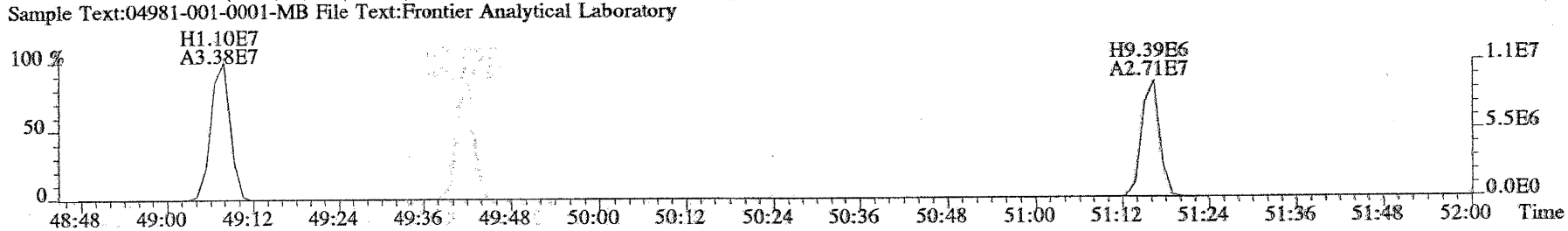
File:24JUL19Z #1-315 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



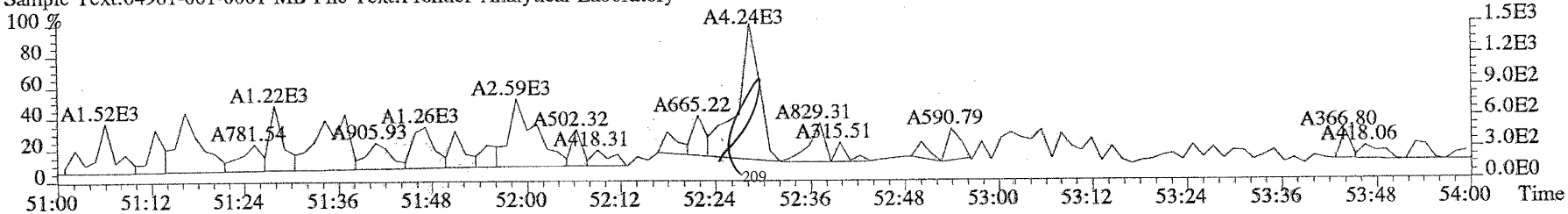
File:24JUL19Z #1-315 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



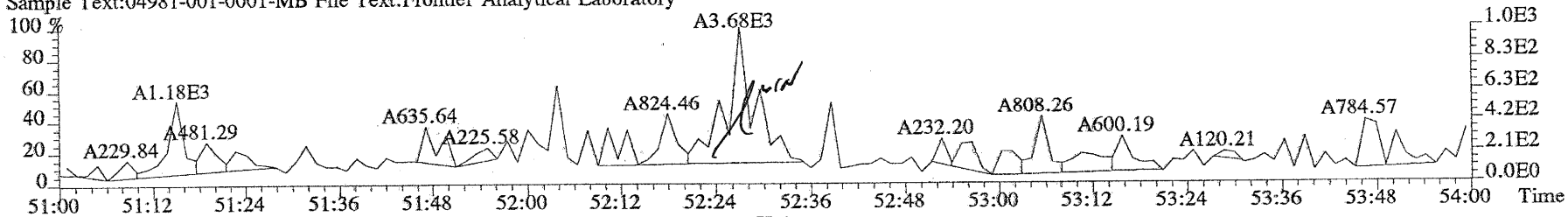
File:24JUL19Z #1-315 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



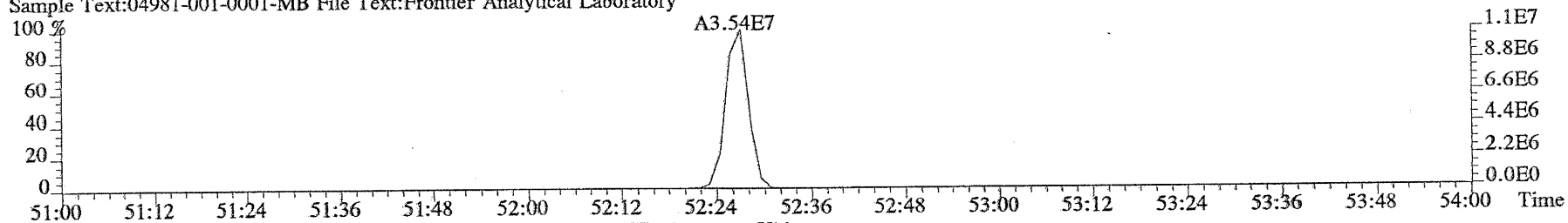
File:24JUL19Z #1-315 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



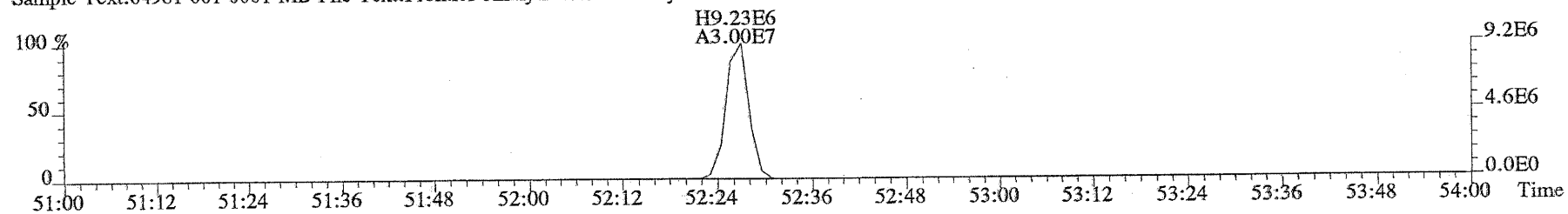
File:24JUL19Z #1-315 Acq:24-JUL-2019 13:58:11 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-MB File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 13:58:11 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:04981-001-0001-MB File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 13:58:11 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:04981-001-0001-MB File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

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

Lab Name: Frontier Analytical Laboratory FAL ID: 04981-001-0001-OPR

Matrix (aqueous/solid/leachate): Sediment OPR Data Filename: 24JUL19Z Sam:3

Ext. Date: 7/23/19 Shift: Day Analysis Date: 24-JUL-19 12:59:50

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	47.4	30.0 - 67.5
PCB-3	50	47.8	30.0 - 67.5
PCB-4	50	44.6	30.0 - 67.5
PCB-15	50	42.6	30.0 - 67.5
PCB-19	50	46.8	30.0 - 67.5
PCB-37	50	44.1	30.0 - 67.5
PCB-54	50	45.1	30.0 - 67.5
PCB-77	50	47.3	30.0 - 67.5
PCB-81	50	42.5	30.0 - 67.5
PCB-104	50	47.5	30.0 - 67.5
PCB-105	50	42.5	30.0 - 67.5
PCB-114	50	45.5	30.0 - 67.5
PCB-118	50	46.6	30.0 - 67.5
PCB-123	50	50.9	30.0 - 67.5
PCB-126	50	44.4	30.0 - 67.5
PCB-155	50	46.7	30.0 - 67.5
PCB-156	50	43.0	30.0 - 67.5
PCB-157	50	43.8	30.0 - 67.5
PCB-167	50	45.7	30.0 - 67.5
PCB-169	50	49.2	30.0 - 67.5
PCB-188	50	48.0	30.0 - 67.5
PCB-189	50	46.7	30.0 - 67.5
PCB-202	50	50.7	30.0 - 67.5
PCB-205	50	47.3	30.0 - 67.5
PCB-206	50	48.0	30.0 - 67.5
PCB-208	50	47.1	30.0 - 67.5
PCB-209	50	45.2	30.0 - 67.5

Analyst: [signature] Date: 7/24/19

Frontier Analytical Laboratory

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

Lab Name: Frontier Analytical Laboratory FAL ID: 04981-001-0001-OPR

Matrix (aqueous/solid/leachate): Sediment OPR Data Filename: 24JUL19Z Sam:3

Ext. Date: 7/23/19 Shift: Day Analysis Date: 24-JUL-19 12:59:50

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	89.8	15.0 - 145
13C-PCB-3	100	90.6	15.0 - 145
13C-PCB-4	100	91.3	15.0 - 145
13C-PCB-15	100	98.9	15.0 - 145
13C-PCB-19	100	95.2	15.0 - 145
13C-PCB-37	100	93.3	15.0 - 145
13C-PCB-54	100	87.6	15.0 - 145
13C-PCB-77	100	92.5	40.0 - 145
13C-PCB-81	100	90.9	40.0 - 145
13C-PCB-104	100	92.9	40.0 - 145
13C-PCB-105	100	107	40.0 - 145
13C-PCB-114	100	103	40.0 - 145
13C-PCB-118	100	102	40.0 - 145
13C-PCB-123	100	99.9	40.0 - 145
13C-PCB-126	100	102	40.0 - 145
13C-PCB-155	100	93.1	40.0 - 145
13C-PCB-156	100	107	40.0 - 145
13C-PCB-157	100	107	40.0 - 145
13C-PCB-167	100	107	40.0 - 145
13C-PCB-169	100	100	40.0 - 145
13C-PCB-188	100	101	40.0 - 145
13C-PCB-189	100	98.2	40.0 - 145
13C-PCB-202	100	105	40.0 - 145
13C-PCB-205	100	99.4	40.0 - 145
13C-PCB-206	100	102	40.0 - 145
13C-PCB-208	100	111	40.0 - 145
13C-PCB-209	100	108	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	102	15.0 - 145
13C-PCB-111	100	86.1	40.0 - 145
13C-PCB-178	100	104	40.0 - 145

Analyst: [signature] Date: 7/24/19

FAL ID: 04981-001-0001-OPR Filename: 24JUL19Z Sam:3 Acquired: 24-JUL-19 12:59:50 ICal: DAILYFAL4-7-14-19
Client ID: OPR ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 1.000

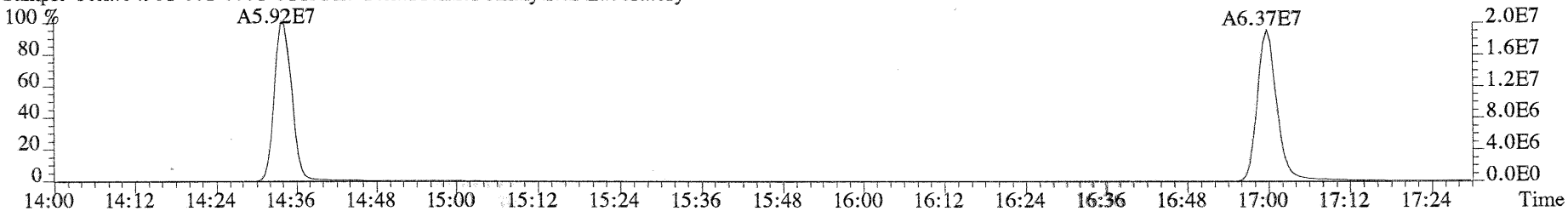
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	7.75e+07	3.24 y	14:34	1.19	47.4		2.50	-	-	*	
13C-PCB-1	1.37e+08	3.18 y	14:33	0.82	89.8		2.50				89.8
PCB-3	8.31e+07	3.29 y	16:60	1.21	47.8		2.50	-	-	*	
13C-PCB-3	1.43e+08	3.17 y	16:59	0.85	90.6		2.50				90.6
PCB-4	5.40e+07	1.51 y	18:14	1.14	44.6		2.50	-	-	*	
13C-PCB-4	1.06e+08	1.60 y	18:13	0.63	91.3		2.50				91.3
PCB-15	8.78e+07	1.53 y	23:45	1.16	42.6		2.50	-	-	*	
13C-PCB-15	1.77e+08	1.59 y	23:44	0.96	98.9		2.50				98.9
PCB-19	4.33e+07	1.06 y	22:07	1.16	46.8		2.50	-	-	*	
13C-PCB-19	7.95e+07	1.05 y	22:05	0.45	95.2		2.50				95.2
13C-PCB-9	1.86e+08	1.59 y	19:52	-	109		2.50				
PCB-37	6.01e+07	1.03 y	30:23	1.17	44.1		2.50	-	-	*	
13C-PCB-37	1.17e+08	1.03 y	30:21	1.46	93.3		2.50				93.3
PCB-54	5.20e+07	0.80 y	25:38	1.26	45.1		2.50	-	-	*	
13C-PCB-54	9.12e+07	0.83 y	25:37	1.21	87.6		2.50				87.6
PCB-104	4.25e+07	1.59 y	30:02	1.12	47.5		2.50	-	-	*	
13C-PCB-104	8.01e+07	1.58 y	30:01	1.00	92.9		2.50				92.9
13C-PCB-28	1.54e+08	1.05 y	26:41	1.75	102		2.50				102
13C-PCB-52	8.59e+07	0.80 y	28:57	-	107		2.50				
PCB-81	4.63e+07	0.77 y	36:08	1.21	42.5		2.50	-	-	*	
13C-PCB-81	8.98e+07	0.80 y	36:06	1.53	90.9		2.50				90.9
PCB-77	4.54e+07	0.76 y	36:42	1.04	47.3		2.50	-	-	*	
13C-PCB-77	9.19e+07	0.81 y	36:40	1.54	92.5		2.50				92.5
PCB-155	4.00e+07	1.24 y	34:11	1.05	46.7		2.50	-	-	*	
13C-PCB-155	8.16e+07	1.26 y	34:10	1.35	93.1		2.50				93.1
13C-PCB-111	6.74e+07	1.59 y	36:15	1.21	86.1		2.50				86.1
13C-PCB-101	6.47e+07	1.58 y	34:37	-	101		2.50				
PCB-123	3.67e+07	1.52 y	38:18	0.97	50.9		2.50	-	-	*	
13C-PCB-123	7.47e+07	1.57 y	38:18	1.48	99.9		2.50				99.9
PCB-118	3.90e+07	1.51 y	38:29	1.06	46.6		2.50	-	-	*	
13C-PCB-118	7.93e+07	1.60 y	38:28	1.54	102		2.50				102
PCB-114	3.69e+07	1.52 y	39:06	1.07	45.5		2.50	-	-	*	
13C-PCB-114	7.60e+07	1.61 y	39:06	1.46	103		2.50				103
PCB-105	3.65e+07	1.53 y	39:55	1.14	42.5		2.50	-	-	*	
13C-PCB-105	7.52e+07	1.58 y	39:53	1.40	107		2.50				107
PCB-126	3.34e+07	1.54 y	42:02	1.10	44.4		2.50	-	-	*	
13C-PCB-126	6.84e+07	1.60 y	42:02	1.32	102		2.50				102
PCB-167	3.27e+07	1.28 y	43:24	1.18	45.7		2.50	-	-	*	
13C-PCB-167	6.10e+07	1.28 y	43:22	1.13	107		2.50				107
PCB-156	3.08e+07	1.27 y	44:38	1.24	43.0		2.50	-	-	*	
13C-PCB-156	5.76e+07	1.29 y	44:36	1.06	107		2.50				107
PCB-157	2.98e+07	1.30 y	44:53	1.18	43.8		2.50	-	-	*	
13C-PCB-157	5.78e+07	1.29 y	44:51	1.07	107		2.50				107
PCB-169	2.78e+07	1.30 y	46:45	1.12	49.2		2.50	-	-	*	
13C-PCB-169	5.05e+07	1.32 y	46:45	1.00	100		2.50				100
PCB-188	3.17e+07	1.06 y	39:42	1.03	48.0		2.50	-	-	*	
13C-PCB-188	6.42e+07	1.06 y	39:40	1.26	101		2.50				101
PCB-189	2.36e+07	1.07 y	48:25	1.06	46.7		2.50	-	-	*	
13C-PCB-189	4.76e+07	1.08 y	48:24	0.96	98.2		2.50				98.2
PCB-202	2.45e+07	0.92 y	44:48	1.03	50.7		2.50	-	-	*	
13C-PCB-202	4.71e+07	0.91 y	44:46	0.89	105		2.50				105
13C-PCB-178	4.10e+07	1.07 y	42:18	0.78	104		2.50				104
13C-PCB-138	5.05e+07	1.32 y	46:45	-	92.6		2.50				

FAL ID: 04981-001-0001-OPR Filename: 24JUL19Z Sam:3 Acquired: 24-JUL-19 12:59:50 ICal: DAILYFAL4-7-14-19
Client ID: OPR ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 1.000

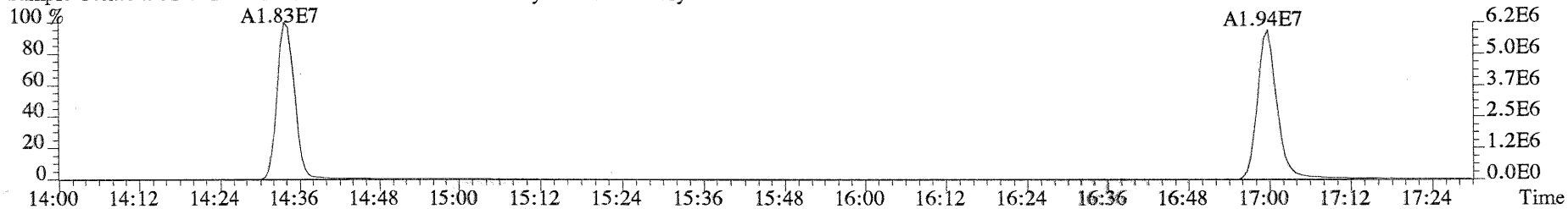
PCB-205	3.04e+07	0.87	y	50:05	1.06	47.3	2.50	-	-	*	
13C-PCB-205	6.09e+07	0.90	y	50:05	1.30	99.4	2.50				99.4
PCB-208	2.81e+07	1.37	y	49:08	1.09	47.1	2.50	-	-	*	
13C-PCB-208	5.49e+07	0.81	y	49:07	1.05	111	2.50				111
PCB-206	2.22e+07	1.38	y	51:17	1.08	48.0	2.50	-	-	*	
13C-PCB-206	4.27e+07	0.81	y	51:17	0.89	102	2.50				102
PCB-209	2.91e+07	1.20	y	52:28	1.14	45.2	2.50	-	-	*	
13C-PCB-209	5.65e+07	1.20	y	52:28	1.10	108	2.50				108
13C-PCB-194	4.72e+07	0.90	y	49:49	-	90.1	2.50				

Analyst: _____ Date: 7/24/19

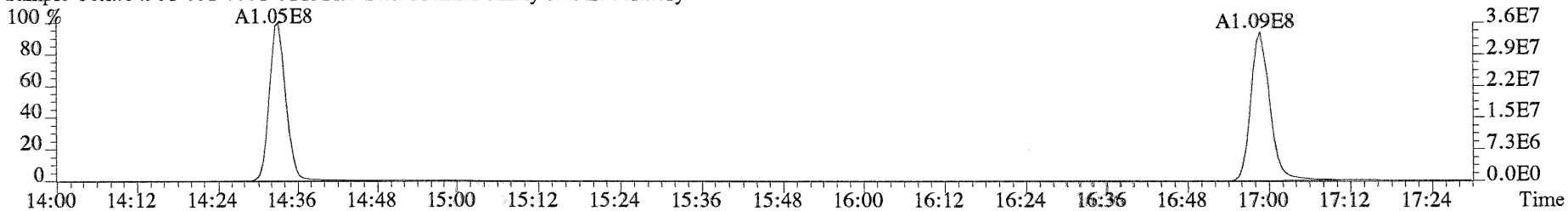
File:24JUL19Z #1-783 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



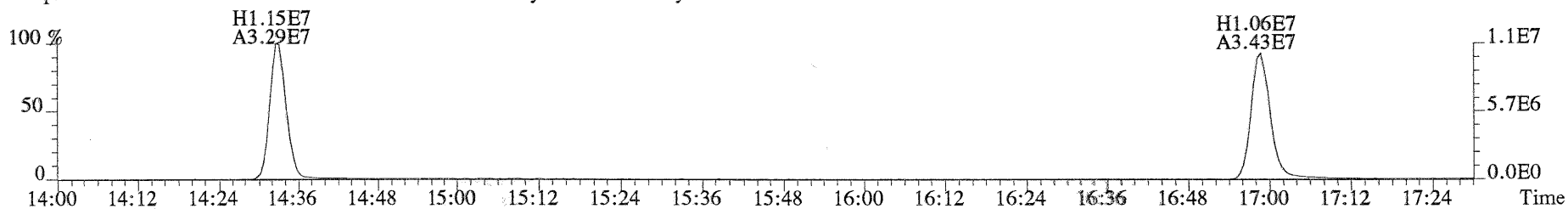
File:24JUL19Z #1-783 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



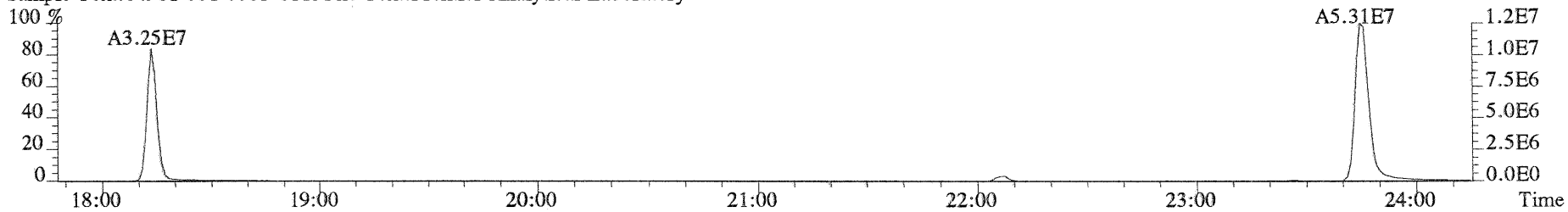
File:24JUL19Z #1-783 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



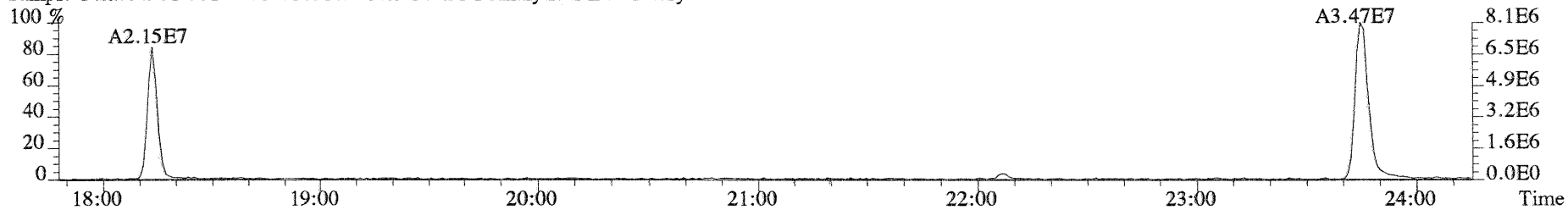
File:24JUL19Z #1-783 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



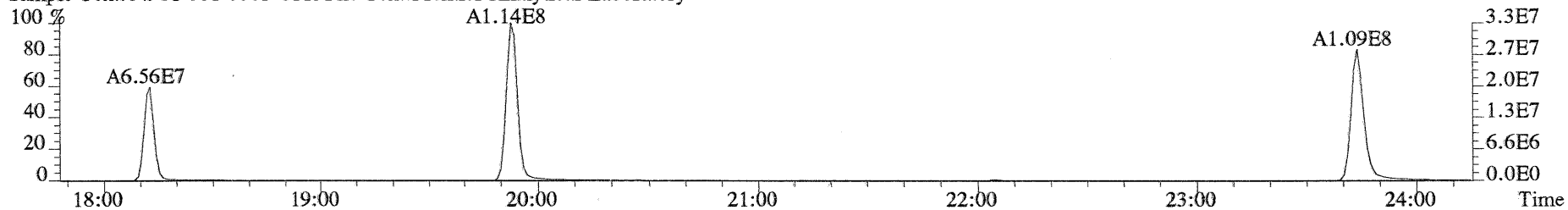
File:24JUL19Z #1-521 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



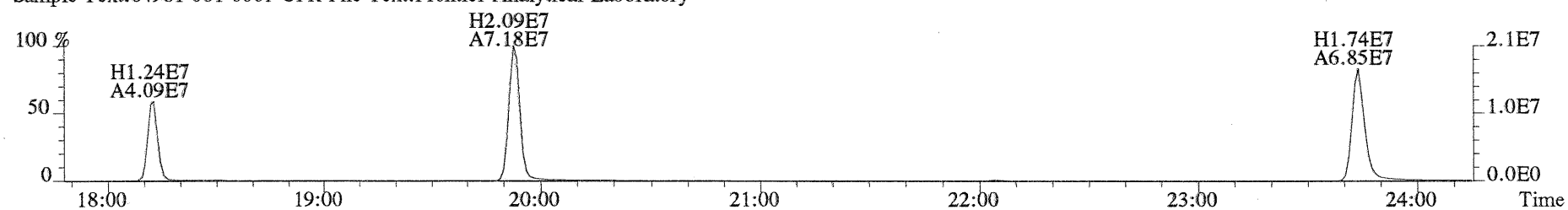
File:24JUL19Z #1-521 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



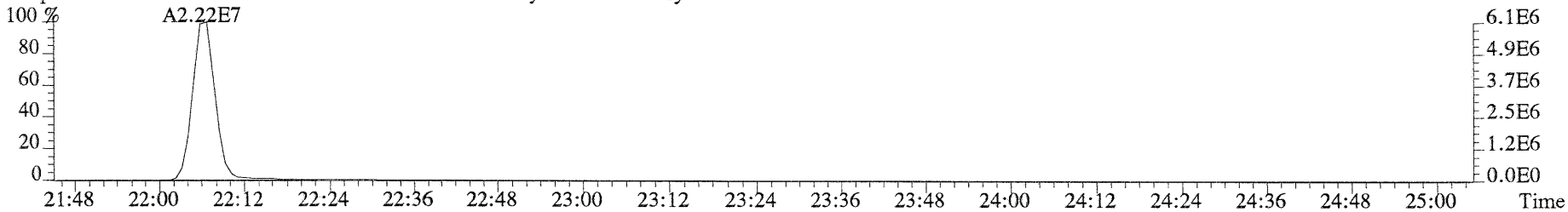
File:24JUL19Z #1-521 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



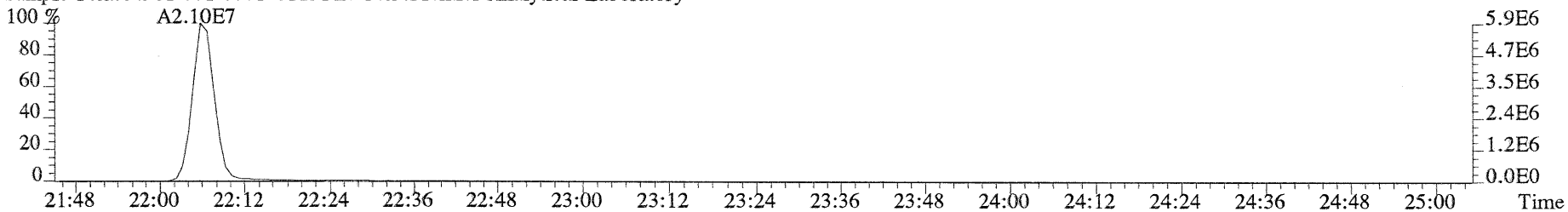
File:24JUL19Z #1-521 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



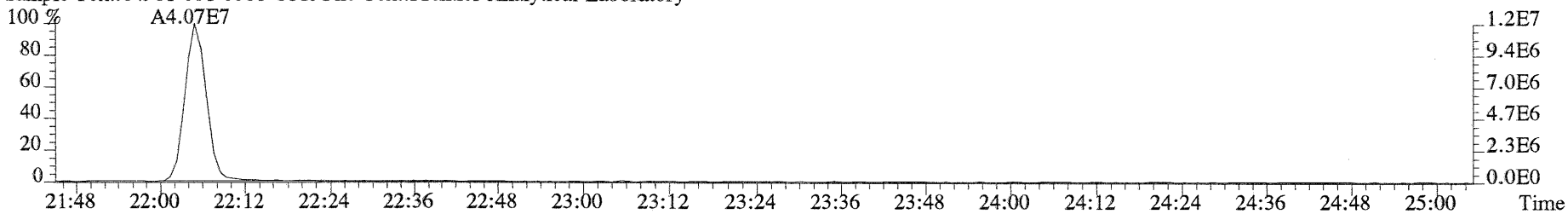
File:24JUL19Z #1-521 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



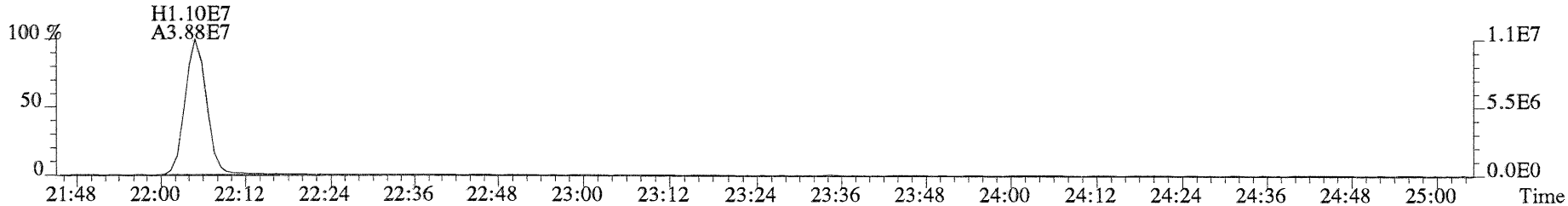
File:24JUL19Z #1-521 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



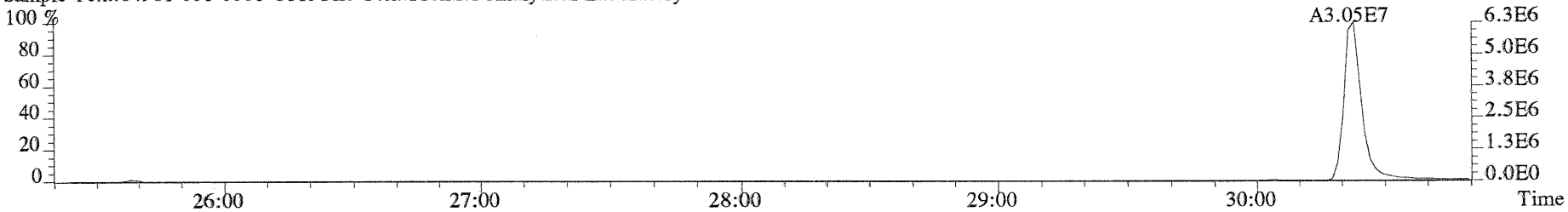
File:24JUL19Z #1-521 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



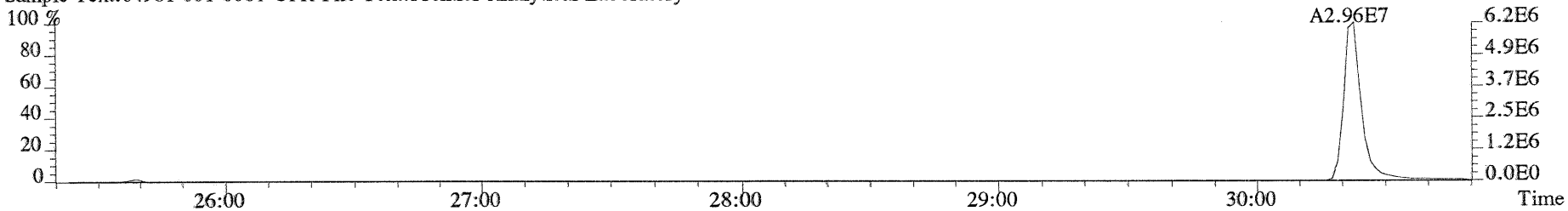
File:24JUL19Z #1-521 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



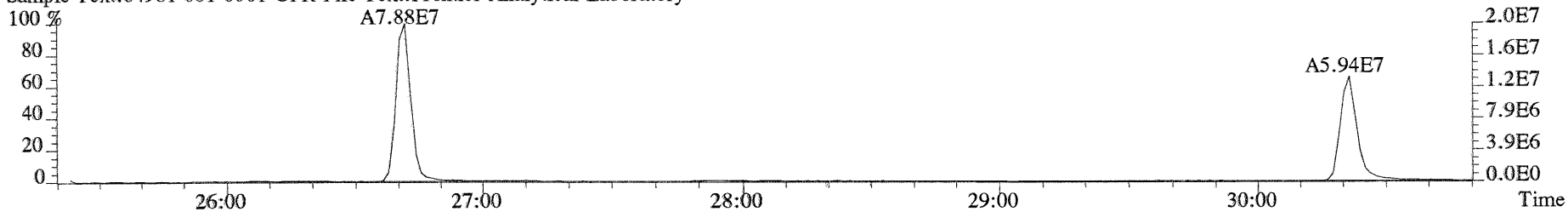
File:24JUL19Z #1-401 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



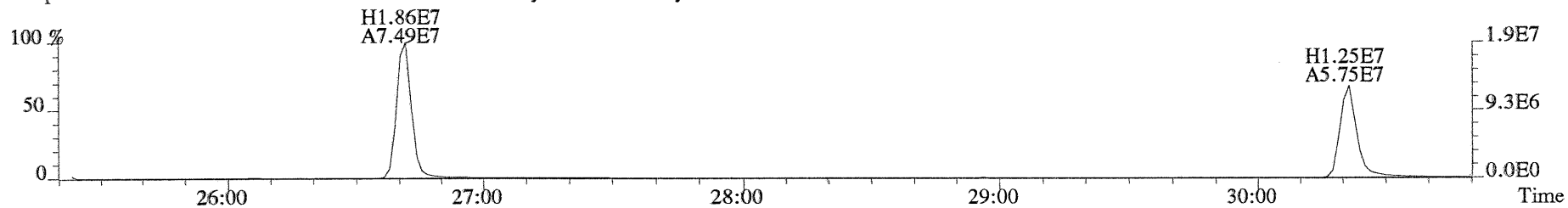
File:24JUL19Z #1-401 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



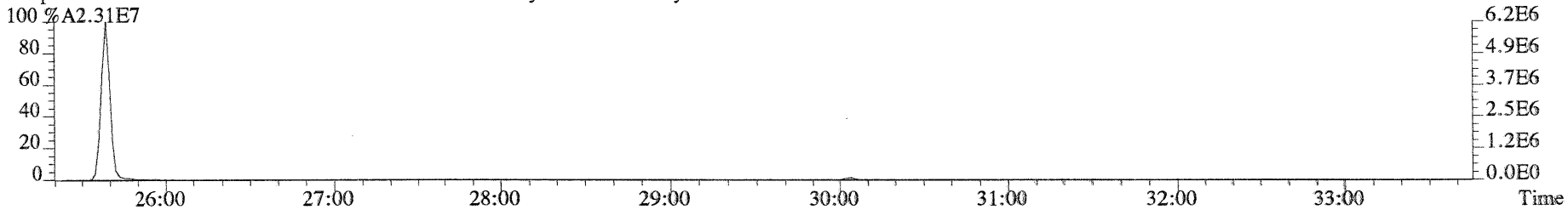
File:24JUL19Z #1-401 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



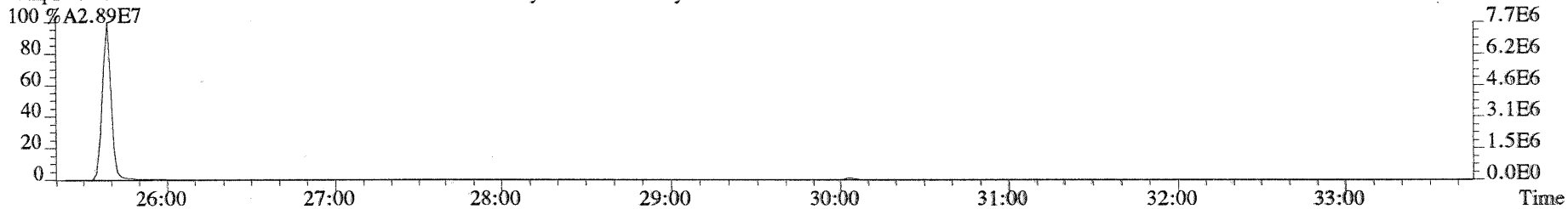
File:24JUL19Z #1-401 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-401 Acq:24-JUL-2019 12:59:50 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:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-401 Acq:24-JUL-2019 12:59:50 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:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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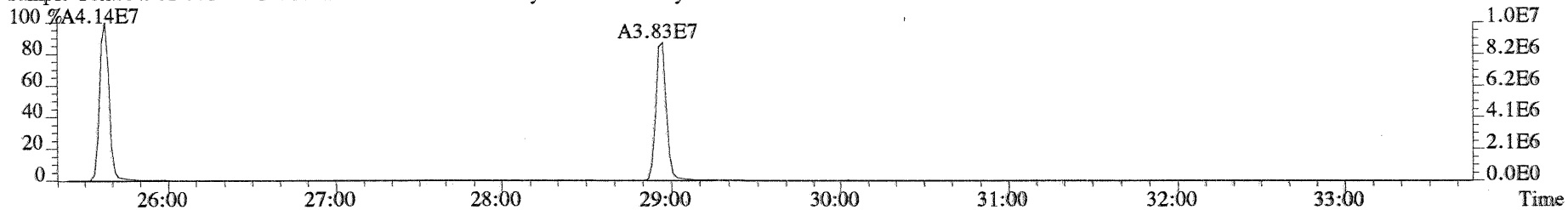
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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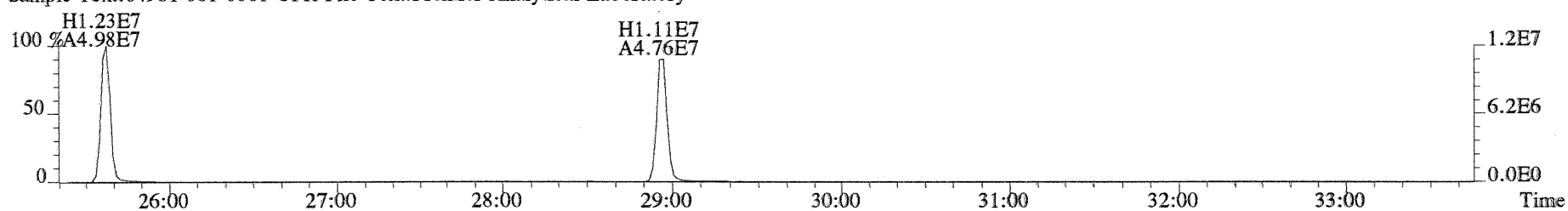
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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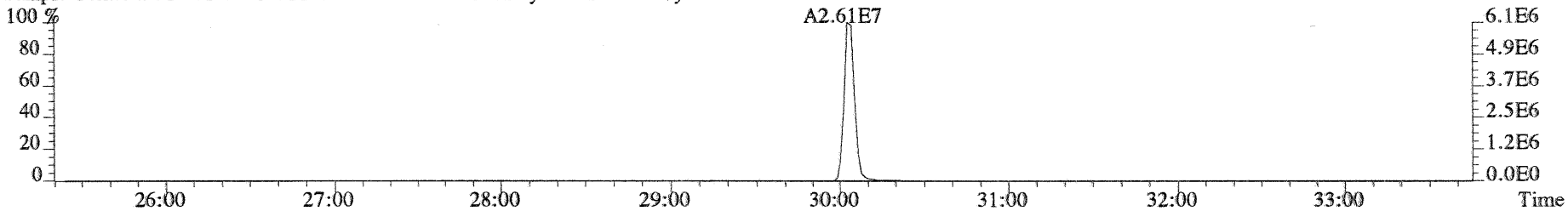
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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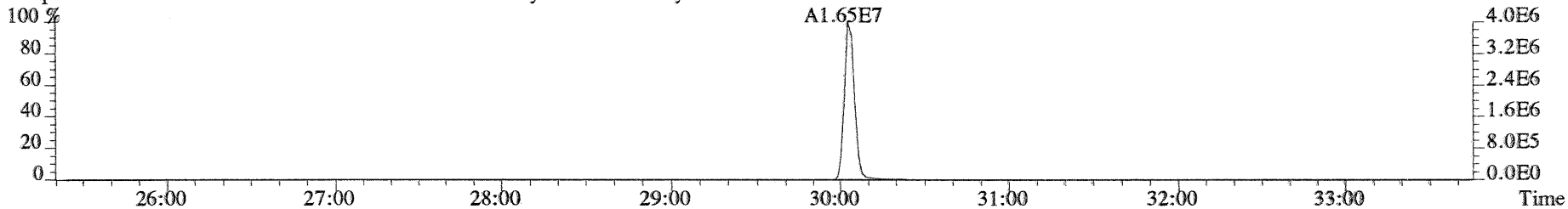
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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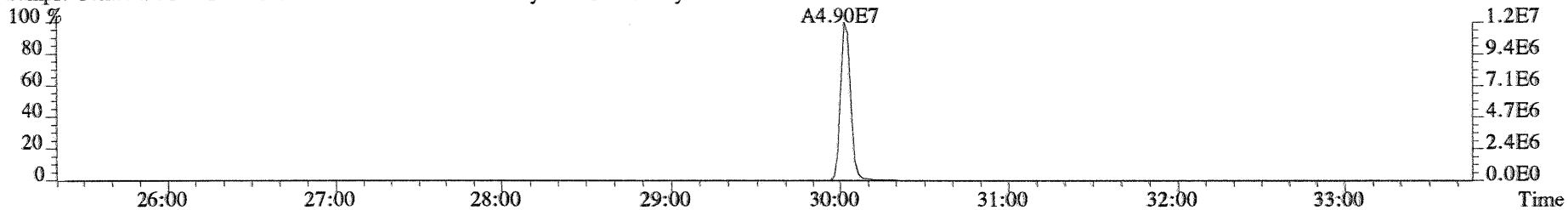
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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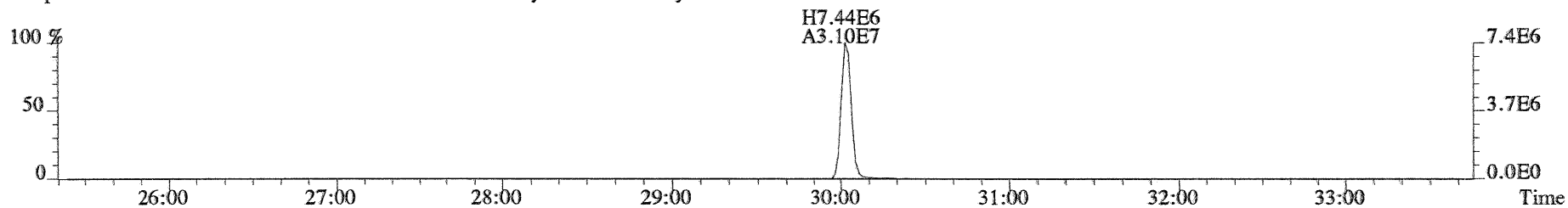
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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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
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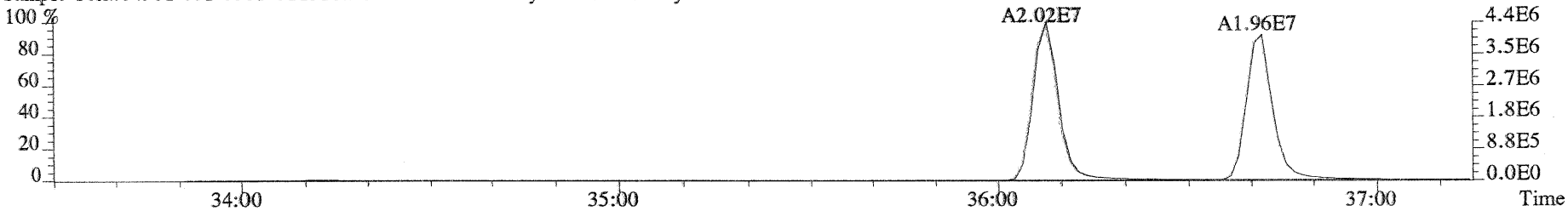

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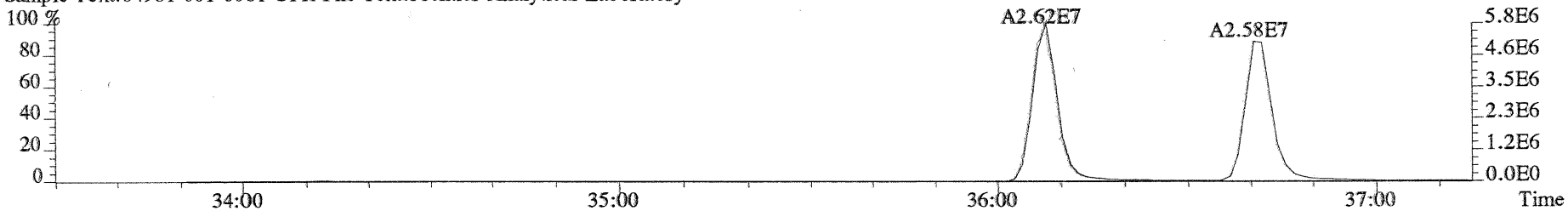
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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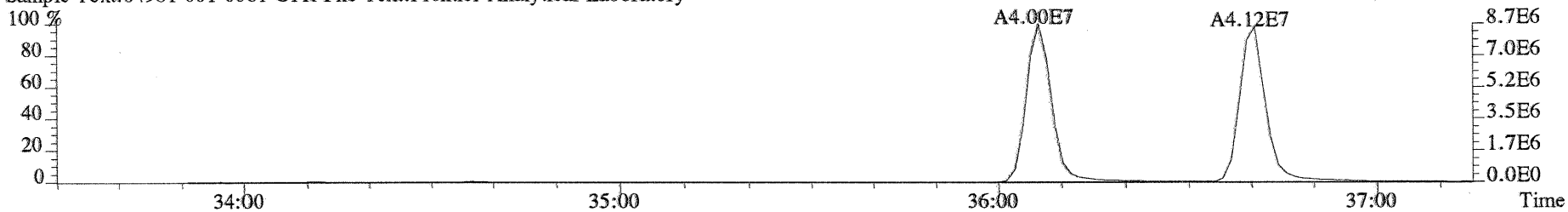
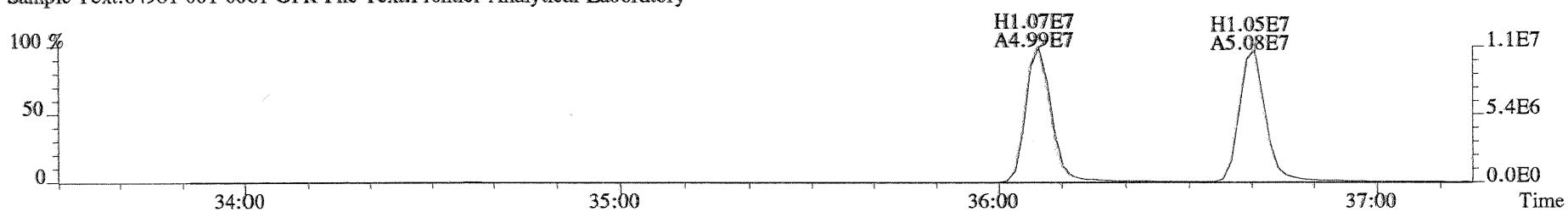
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-180 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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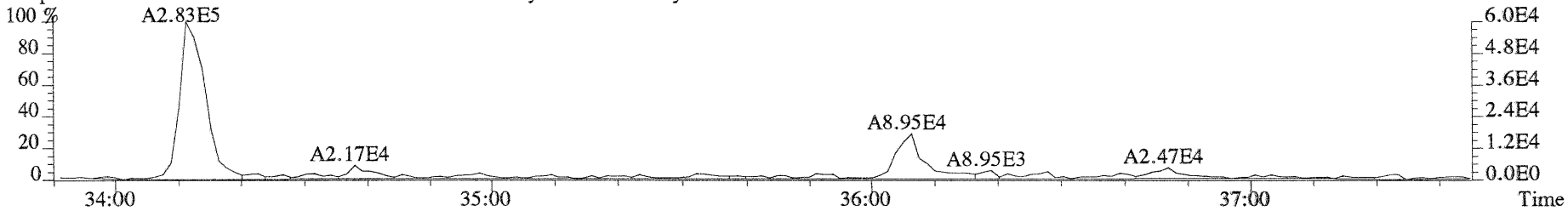
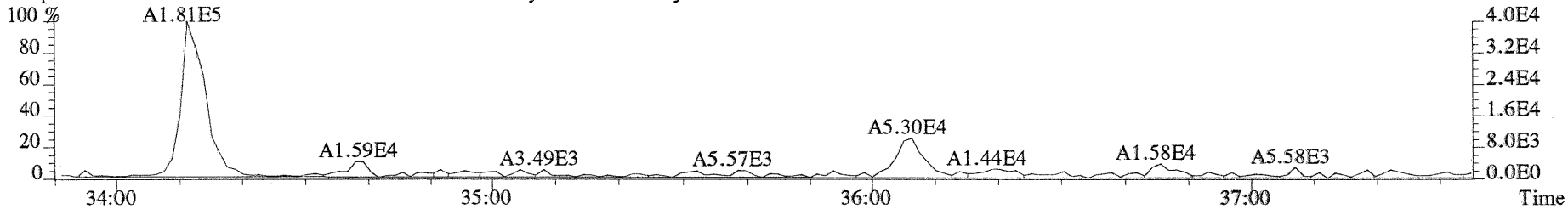
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-180 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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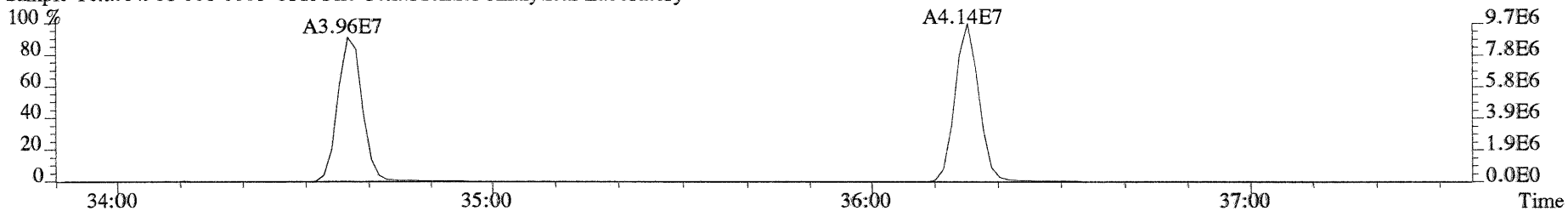
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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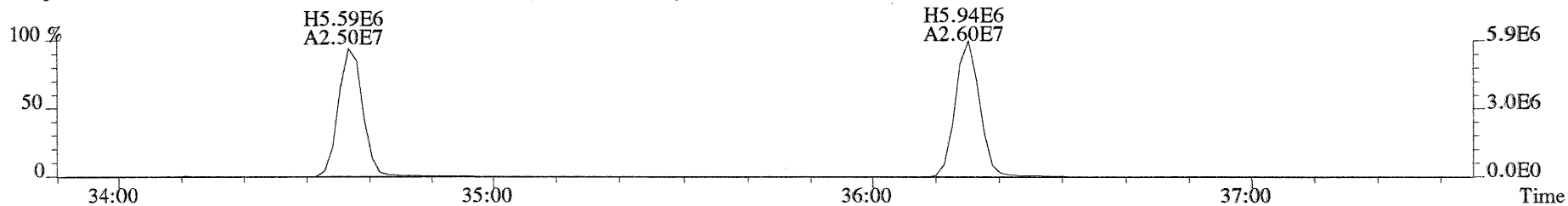
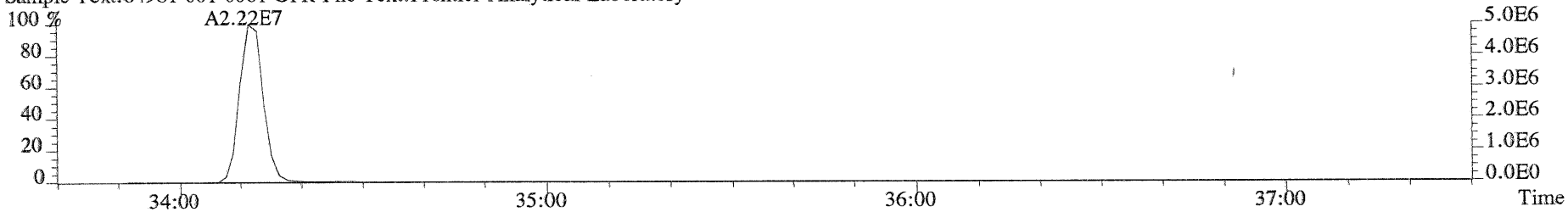
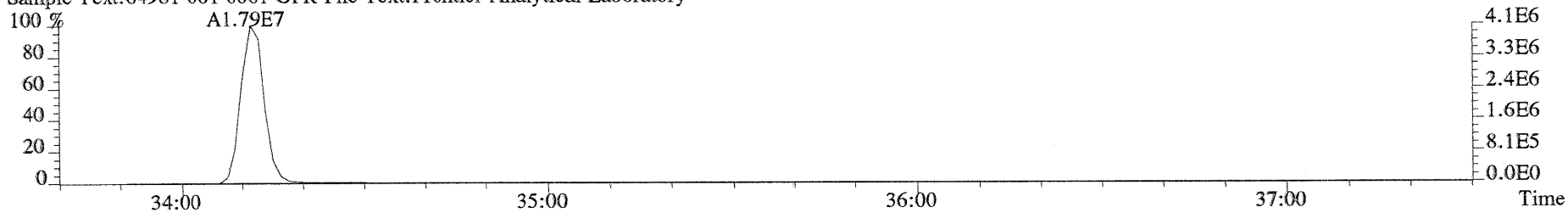
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-180 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-180 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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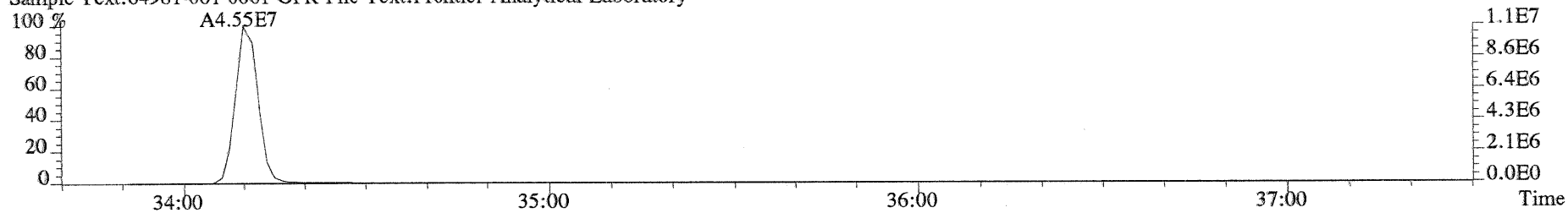
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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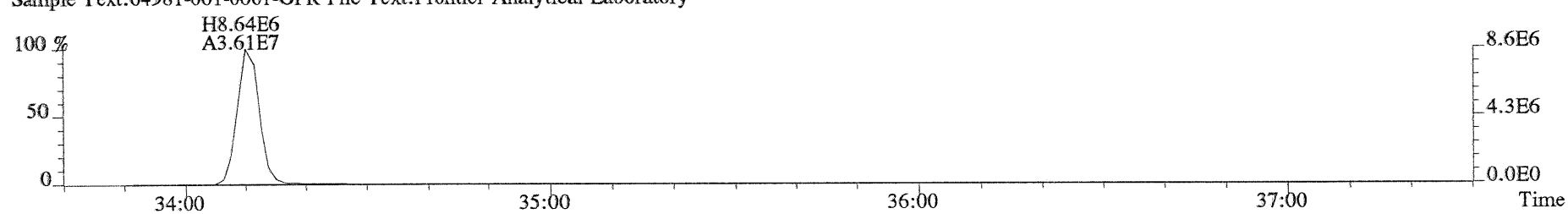
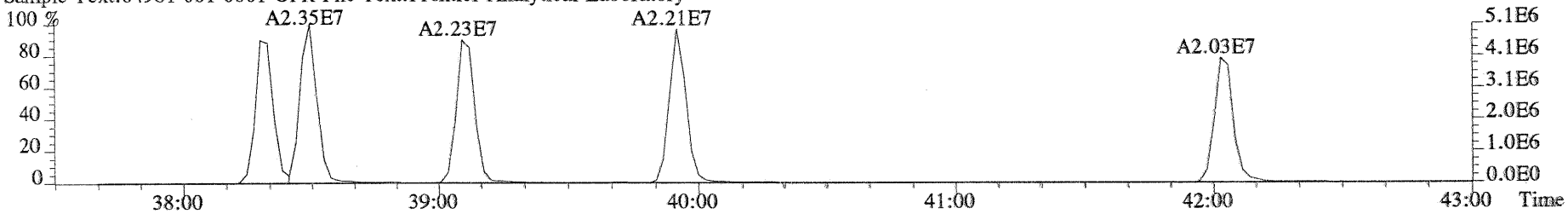
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-406 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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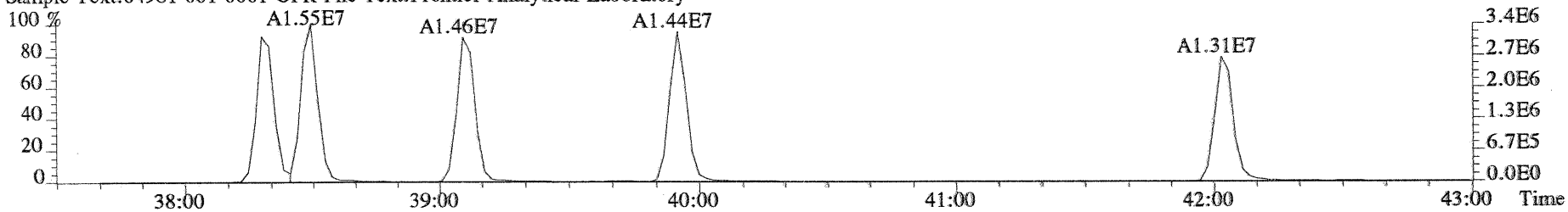
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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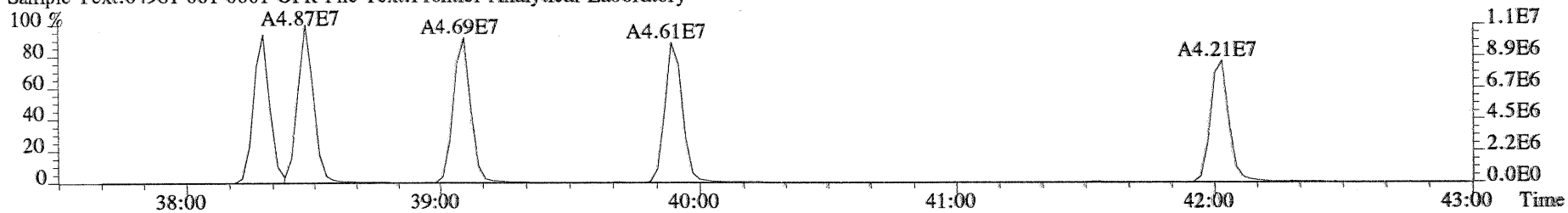
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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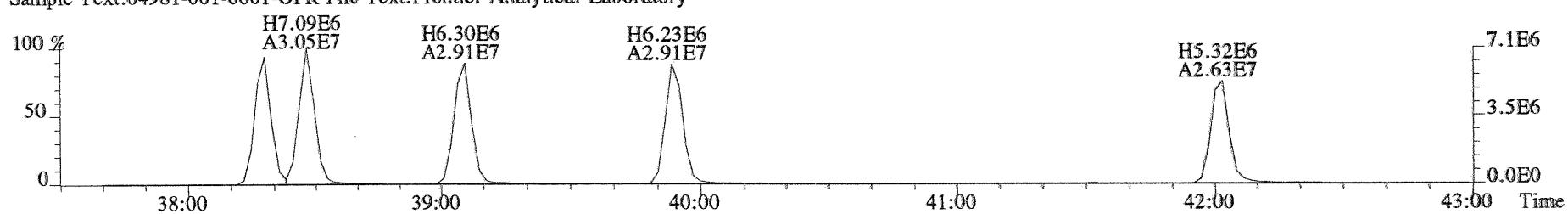
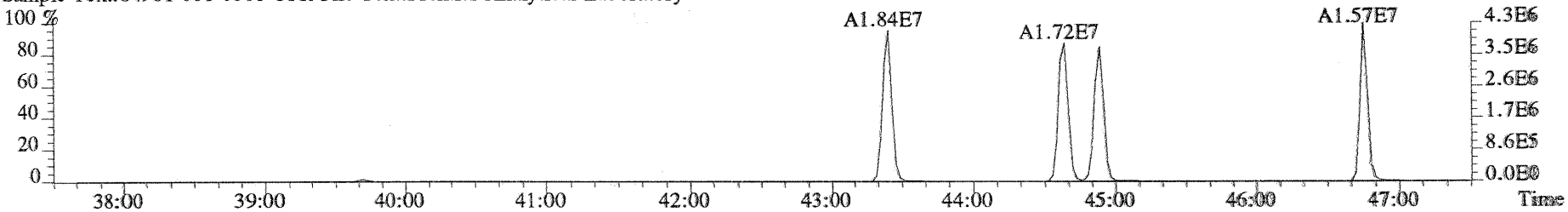
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-406 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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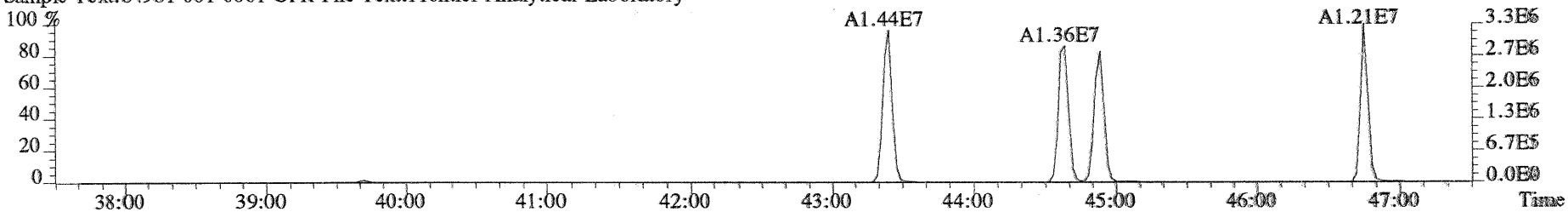
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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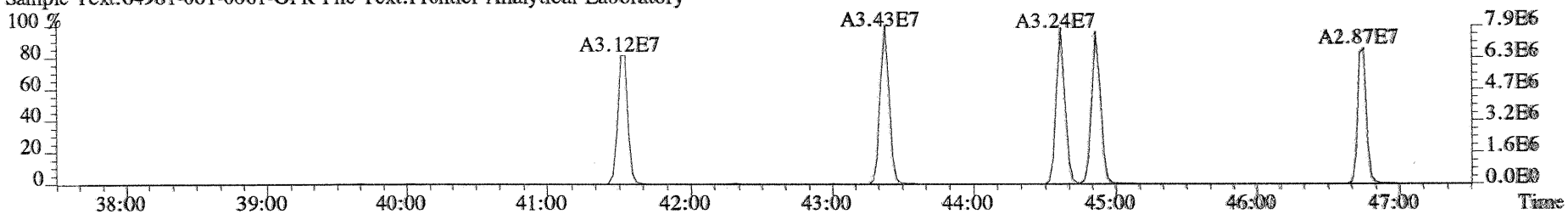
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-406 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
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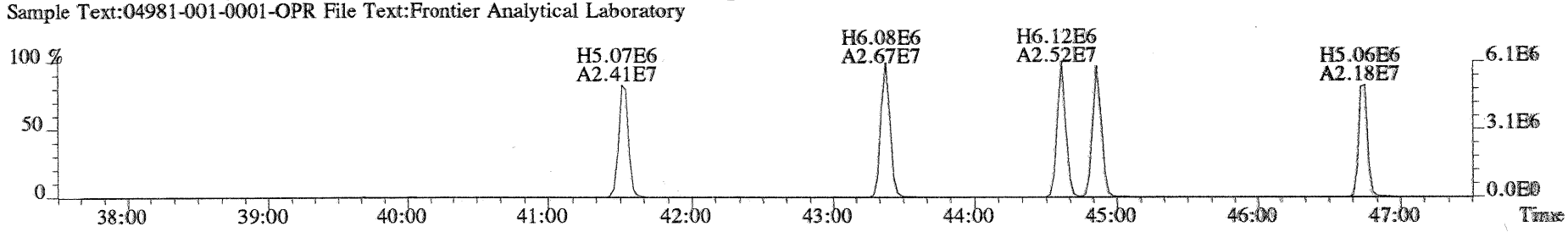
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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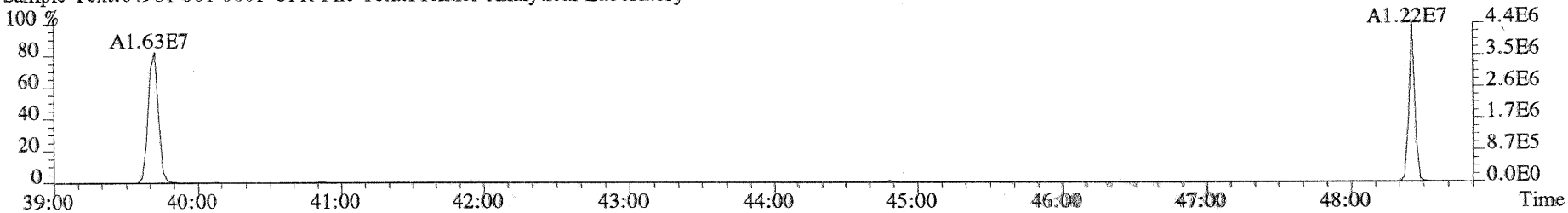
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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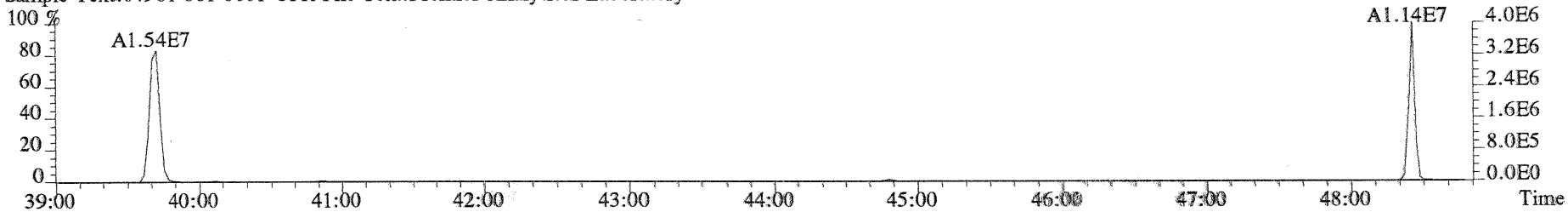
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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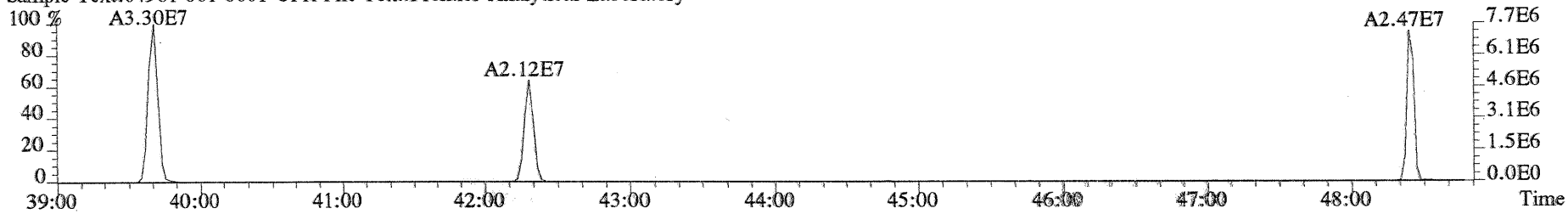
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



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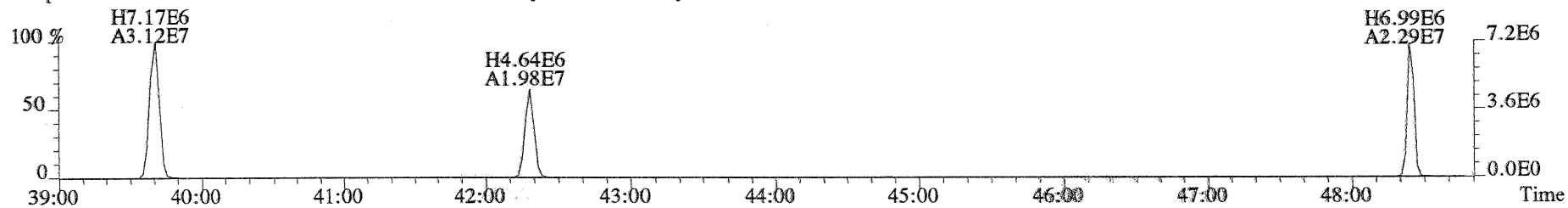
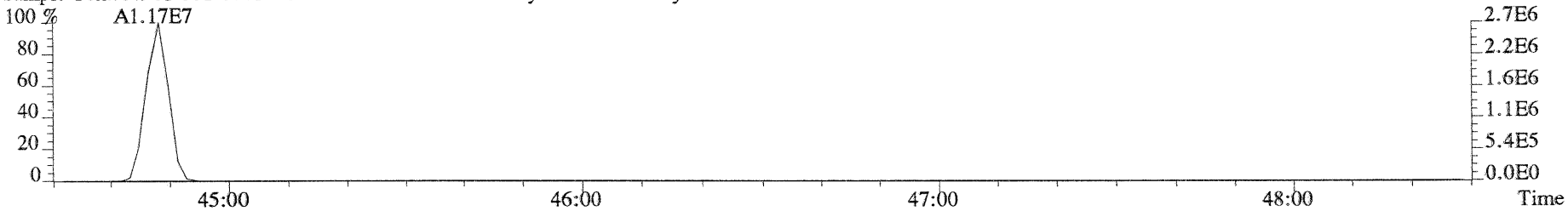
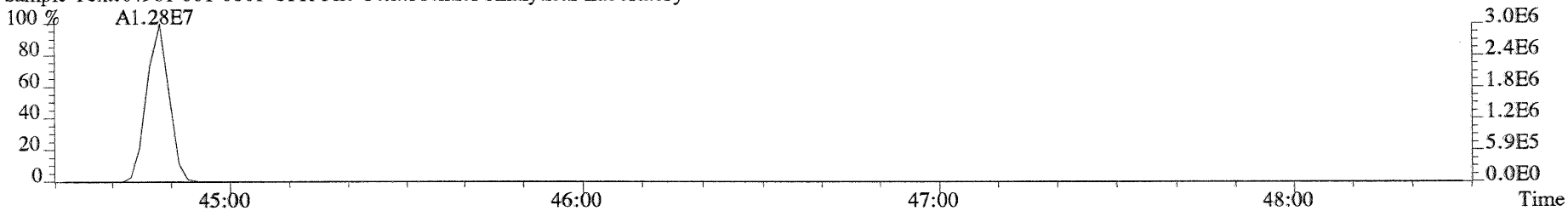
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



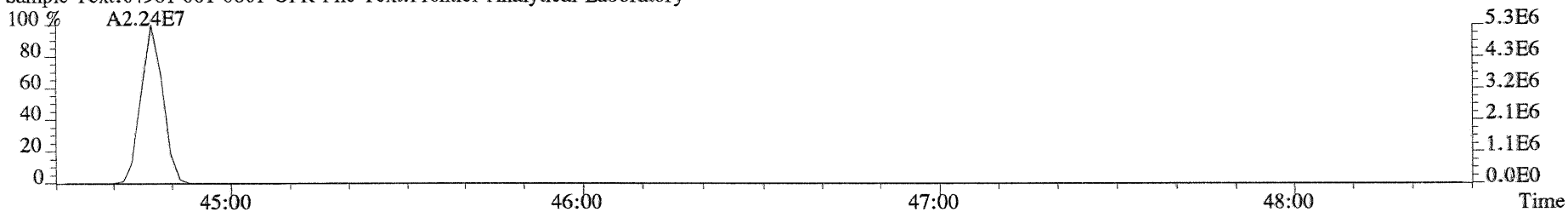
File:24JUL19Z #1-406 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



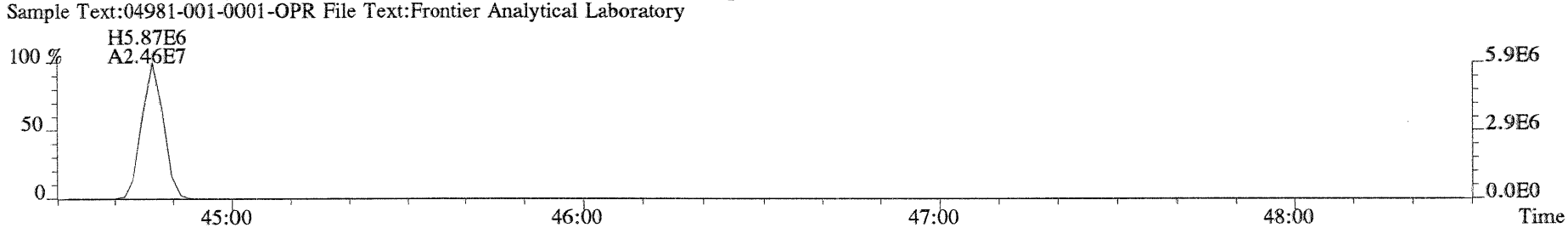
File:24JUL19Z #1-406 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



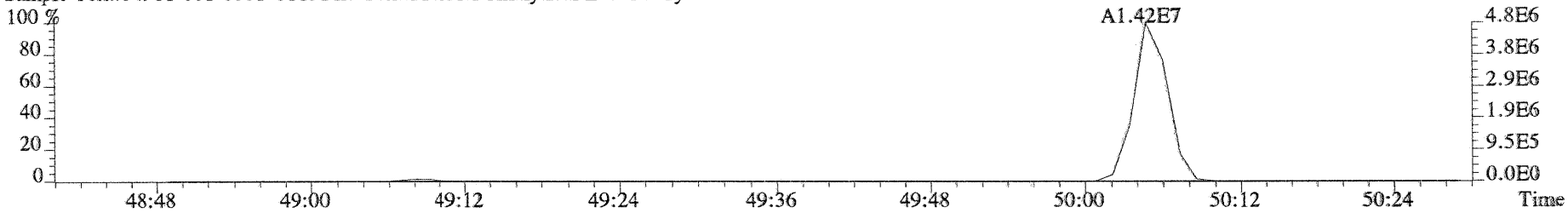
File:24JUL19Z #1-406 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



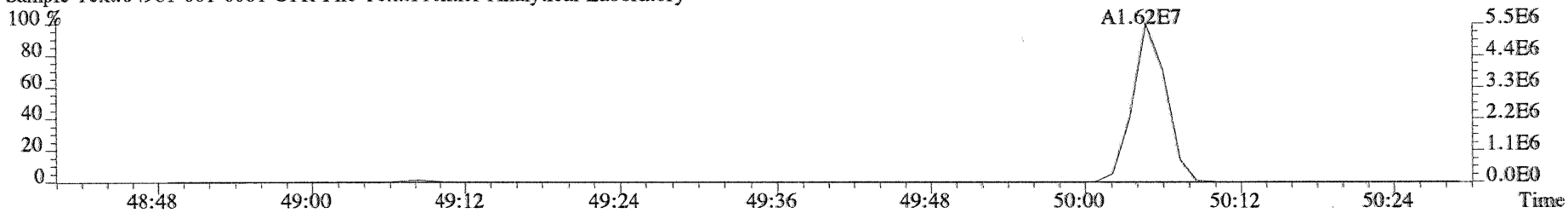
File:24JUL19Z #1-406 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



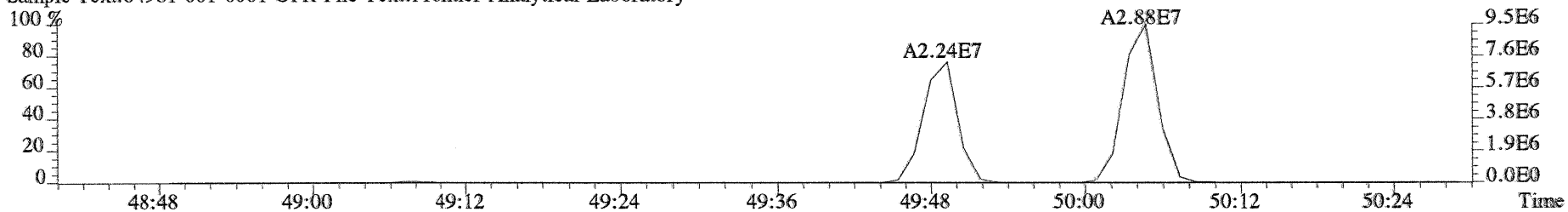
File:24JUL19Z #1-314 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



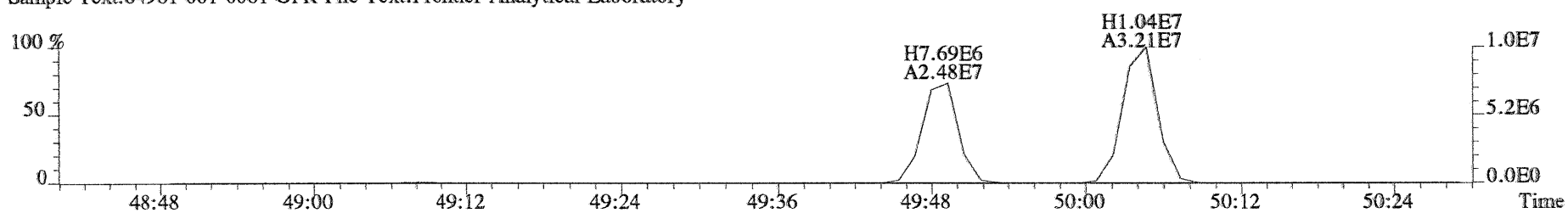
File:24JUL19Z #1-314 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



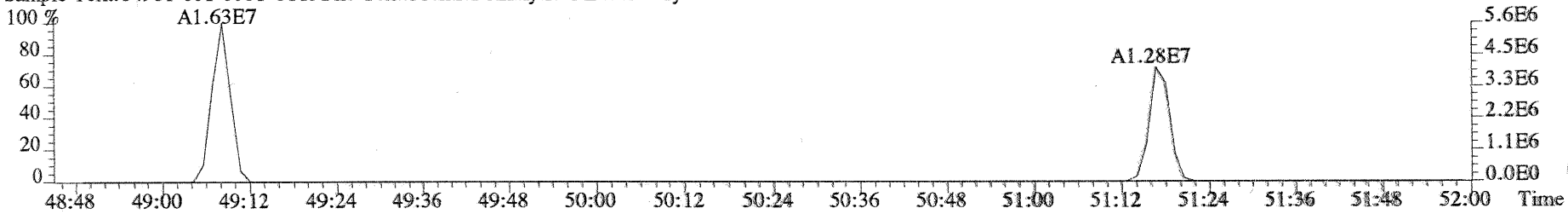
File:24JUL19Z #1-314 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



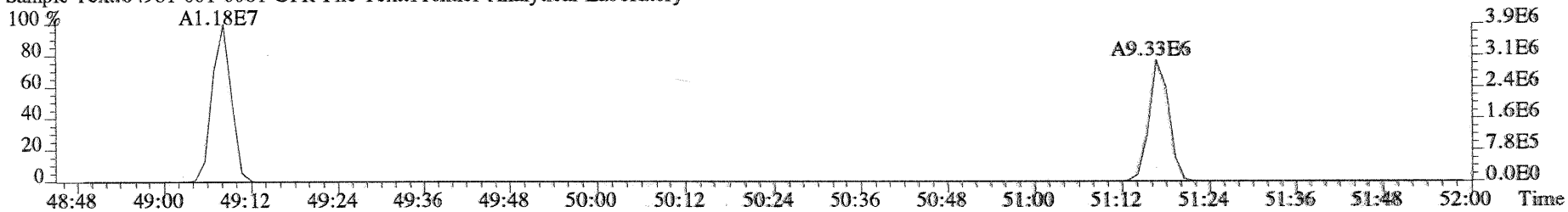
File:24JUL19Z #1-314 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



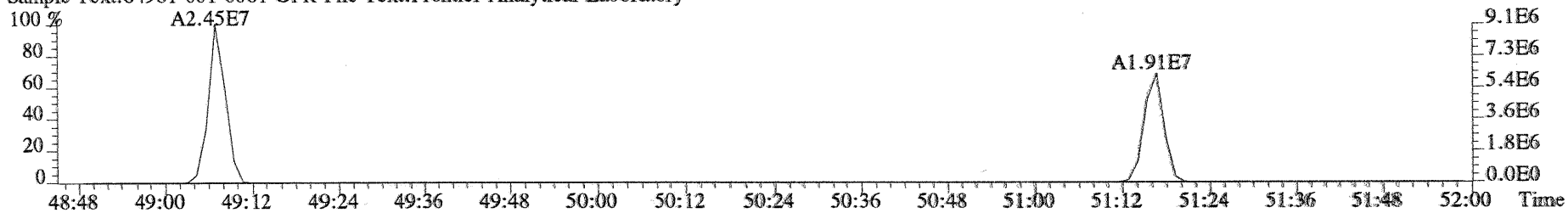
File:24JUL19Z #1-314 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



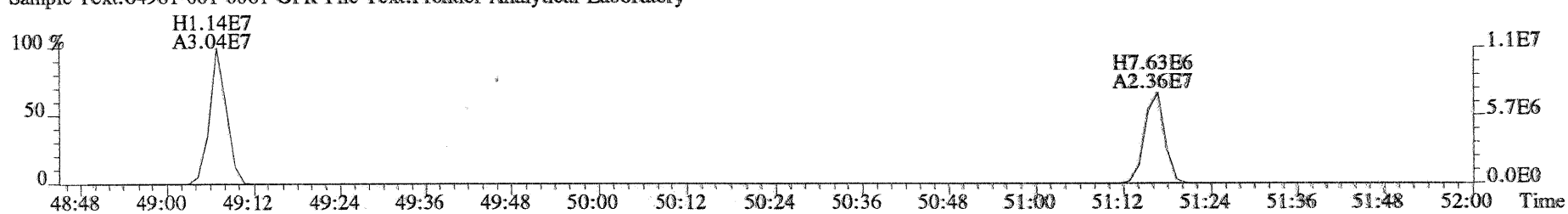
File:24JUL19Z #1-314 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



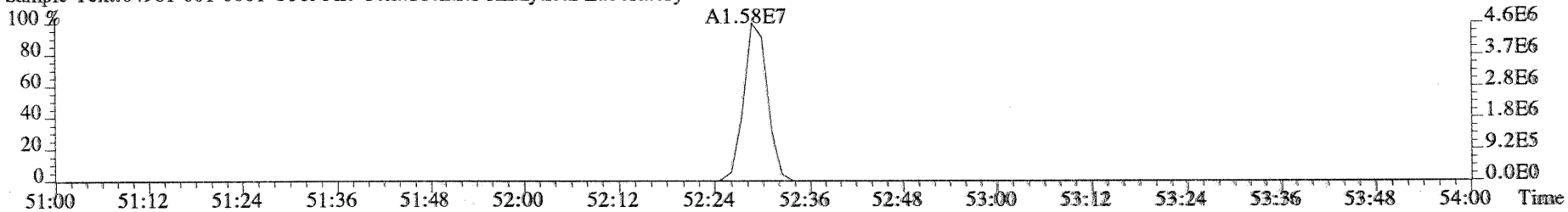
File:24JUL19Z #1-314 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



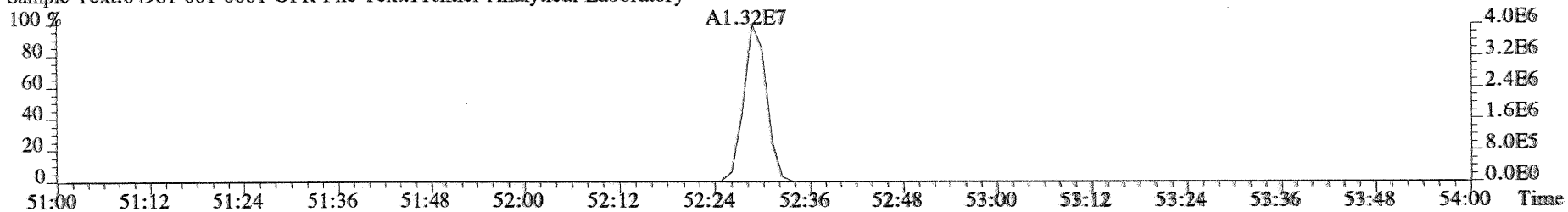
File:24JUL19Z #1-314 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



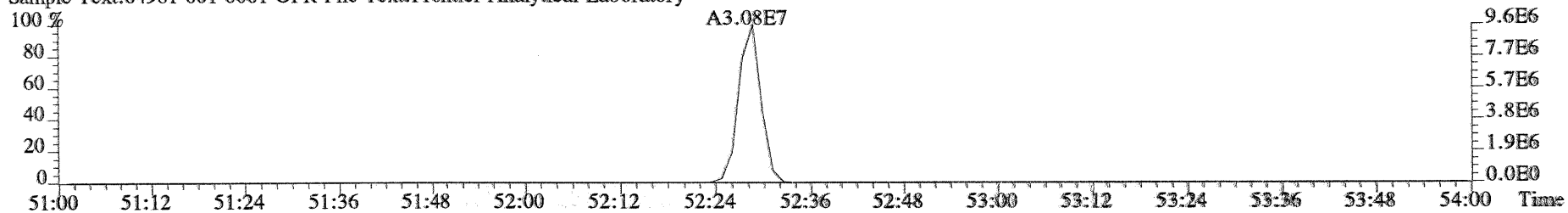
File:24JUL19Z #1-314 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



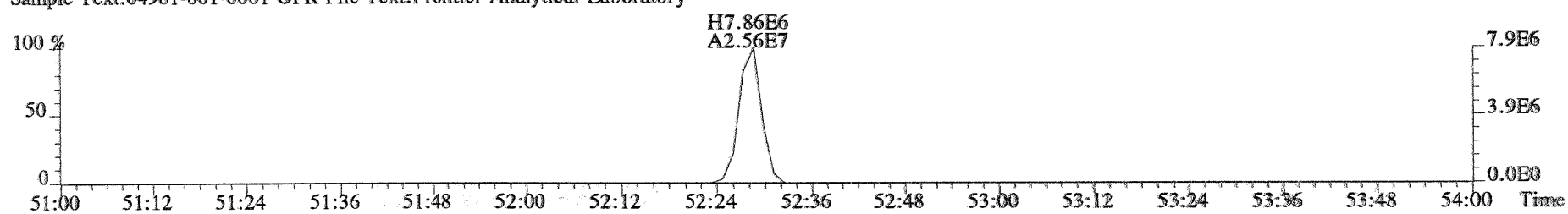
File:24JUL19Z #1-314 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-314 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-314 Acq:24-JUL-2019 12:59:50 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04981-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 04984-001-0001-MB Filename: 25JUL19Z Sam:4 Acquired: 25-JUL-19 14:06:23 ICal: DAILY209FAL4-7-25-19
Client ID: Method Blank ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 5.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	* n	NotFnd	1.17	*		2300	1650	0.436	
13C-PCB-1	1.18e+08	3.14 y	14:32	0.90	1640					82.0
PCB-2	*	* n	NotFnd	1.20	*		2300	1650	0.464	
PCB-3	*	* n	NotFnd	1.20	*		2300	1650	0.505	
13C-PCB-3	1.17e+08	3.32 y	16:58	0.87	1680					84.2
PCB-4	*	* n	NotFnd	1.10	*		987	3540	0.791	
PCB-10	*	* n	NotFnd	1.40	*		987	3540	0.556	
13C-PCB-4	9.04e+07	1.56 y	18:12	0.66	1730					86.5
PCB-9	*	* n	NotFnd	1.32	*		987	3540	0.589	
PCB-7	*	* n	NotFnd	1.48	*		987	3540	0.525	
PCB-6	*	* n	NotFnd	1.39	*		987	3540	0.558	
PCB-8	*	* n	NotFnd	1.34	*		987	3540	0.577	
PCB-5	*	* n	NotFnd	1.36	*		987	3540	0.569	
PCB-14	*	* n	NotFnd	1.30	*		987	3540	0.598	
PCB-11	*	* n	NotFnd	1.23	*		987	3540	0.632	
PCB-13	*	* n	NotFnd	1.18	*		987	3540	0.656	
PCB-12	*	* n	NotFnd	1.23	*		987	3540	0.632	
PCB-15	*	* n	NotFnd	1.10	*		987	3540	0.647	
13C-PCB-15	1.35e+08	1.58 y	23:45	0.90	1900					94.8
PCB-19	*	* n	NotFnd	1.19	*		2400	780	0.701	
PCB-30	*	* n	NotFnd	1.80	*		2400	780	0.464	
PCB-18	*	* n	NotFnd	1.17	*		2400	780	0.710	
PCB-17	*	* n	NotFnd	1.29	*		2400	780	0.646	
PCB-27	*	* n	NotFnd	1.65	*		2400	780	0.505	
PCB-24	*	* n	NotFnd	1.76	*		2400	780	0.473	
PCB-16	*	* n	NotFnd	1.43	*		2400	780	0.583	
PCB-32	*	* n	NotFnd	1.46	*		2400	780	0.570	
13C-PCB-19	6.98e+07	1.08 y	22:06	0.49	1790					89.7
13C-PCB-9	1.59e+08	1.59 y	19:53	-	19.5					
PCB-34	*	* n	NotFnd	1.20	*		2780	1110	0.854	
PCB-23	*	* n	NotFnd	1.47	*		2780	1110	0.695	
PCB-29	*	* n	NotFnd	1.34	*		2780	1110	0.762	
PCB-26	*	* n	NotFnd	1.27	*		2780	1110	0.805	
PCB-25	*	* n	NotFnd	1.26	*		2780	1110	0.813	
PCB-31	*	* n	NotFnd	1.28	*		2780	1110	0.801	
PCB-28	*	* n	NotFnd	1.51	*		2780	1110	0.680	
PCB-20	*	* n	NotFnd	1.26	*		2780	1110	0.812	Co-elute PCB 21/33
PCB-21	*	* n	NotFnd	1.26	*		2780	1110	0.812	Co-elute PCB 20/33
PCB-33	*	* n	NotFnd	1.26	*		2780	1110	0.812	Co-elute PCB 20/21
PCB-22	*	* n	NotFnd	1.40	*		2780	1110	0.730	
PCB-36	*	* n	NotFnd	1.25	*		2780	1110	0.822	
PCB-39	*	* n	NotFnd	1.24	*		2780	1110	0.824	
PCB-38	*	* n	NotFnd	1.29	*		2780	1110	0.792	
PCB-35	*	* n	NotFnd	1.13	*		2780	1110	0.904	
PCB-37	*	* n	NotFnd	1.19	*		2780	1110	0.860	
13C-PCB-37	9.49e+07	1.06 y	30:22	1.40	1920					96.2

PCB-54	*	*	n	NotFnd	1.22	*	1230	1560	0.445	
PCB-50	*	*	n	NotFnd	0.89	*	1230	1560	0.612	
PCB-53	*	*	n	NotFnd	0.86	*	1230	1560	0.627	
PCB-51	*	*	n	NotFnd	0.92	*	1230	1560	0.588	
PCB-45	*	*	n	NotFnd	0.74	*	1230	1560	0.732	
PCB-46	*	*	n	NotFnd	0.70	*	1230	1560	0.770	
PCB-52	*	*	n	NotFnd	0.90	*	1230	1560	0.600	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	0.90	*	1230	1560	0.600	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.12	*	1230	1560	0.486	
PCB-43	*	*	n	NotFnd	0.78	*	1230	1560	0.696	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.78	*	1230	1560	0.696	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.85	*	1230	1560	0.639	
PCB-48	*	*	n	NotFnd	1.01	*	1230	1560	0.537	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	1.01	*	1230	1560	0.537	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*	1230	1560	0.535	
PCB-62	*	*	n	NotFnd	1.07	*	1230	1560	0.507	
PCB-44	*	*	n	NotFnd	0.67	*	1230	1560	0.815	
PCB-42	*	*	n	NotFnd	0.89	*	1230	1560	0.608	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.89	*	1230	1560	0.608	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	1.00	*	1230	1560	0.541	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	1.00	*	1230	1560	0.541	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	1.00	*	1230	1560	0.541	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	1.00	*	1230	1560	0.541	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	1.14	*	1230	1560	0.475	
PCB-40	*	*	n	NotFnd	0.61	*	1230	1560	0.888	
PCB-57	*	*	n	NotFnd	1.07	*	1230	1560	0.506	
PCB-67	*	*	n	NotFnd	0.99	*	1230	1560	0.545	
PCB-58	*	*	n	NotFnd	1.11	*	1230	1560	0.487	
PCB-63	*	*	n	NotFnd	1.05	*	1230	1560	0.516	
PCB-74	*	*	n	NotFnd	1.02	*	1230	1560	0.530	
PCB-61	*	*	n	NotFnd	0.97	*	1230	1560	0.560	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	0.97	*	1230	1560	0.560	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.05	*	1230	1560	0.516	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.05	*	1230	1560	0.516	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.24	*	1230	1560	0.438	
PCB-55	*	*	n	NotFnd	1.06	*	1230	1560	0.511	
13C-PCB-54	9.44e+07	0.82	y	25:37	1.36	1970				98.6
PCB-104	*	*	n	NotFnd	1.10	*	520	776	0.320	
PCB-96	*	*	n	NotFnd	1.04	*	520	776	0.341	
PCB-103	*	*	n	NotFnd	0.84	*	520	776	0.420	
PCB-100	*	*	n	NotFnd	0.85	*	520	776	0.416	
PCB-94	*	*	n	NotFnd	0.69	*	520	776	0.516	
PCB-98	*	*	n	NotFnd	0.69	*	520	776	0.510	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.69	*	520	776	0.510	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.77	*	520	776	0.459	
PCB-93	*	*	n	NotFnd	0.78	*	520	776	0.452	
PCB-88	*	*	n	NotFnd	0.83	*	520	776	0.424	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.83	*	520	776	0.424	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.89	*	520	776	0.395	
13C-PCB-104	7.08e+07	1.58	y	30:03	1.06	1890				94.5
13C-PCB-28	1.31e+08	1.05	y	26:42	1.72	2150				108
13C-PCB-52	7.05e+07	0.79	y	28:57	-	18.8				

PCB-56	*	*	n	NotFnd	1.17	*		588	1090	0.460	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.17	*		588	1090	0.460	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.22	*		588	1090	0.444	
PCB-78	*	*	n	NotFnd	1.16	*		588	1090	0.465	
PCB-81	*	*	n	NotFnd	1.25	*		588	1090	0.411	
13C-PCB-81	7.24e+07	0.80	y	36:08	1.37	1820					90.8
PCB-77	*	*	n	NotFnd	1.06	*		588	1090	0.536	
13C-PCB-77	7.23e+07	0.80	y	36:42	1.44	1730					86.3
PCB-155	*	*	n	NotFnd	1.04	*		612	336	0.218	
PCB-150	*	*	n	NotFnd	0.95	*		612	336	0.238	
PCB-152	*	*	n	NotFnd	0.90	*		612	336	0.251	
PCB-145	*	*	n	NotFnd	0.93	*		612	336	0.244	
PCB-136	*	*	n	NotFnd	0.93	*		612	336	0.242	
PCB-148	*	*	n	NotFnd	0.62	*		612	336	0.362	
PCB-154	*	*	n	NotFnd	0.75	*		612	336	0.301	
13C-PCB-155	7.83e+07	1.29	y	34:12	1.44	1870					93.4
13C-PCB-111	6.18e+07	1.59	y	36:16	1.22	1740					86.9
13C-PCB-101	5.83e+07	1.57	y	34:38	-	19.1					
PCB-84	*	*	n	NotFnd	0.83	*		1070	1020	0.822	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.83	*		1070	1020	0.822	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.81	*		1070	1020	0.842	
PCB-90	*	*	n	NotFnd	0.89	*		1070	1020	0.771	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.89	*		1070	1020	0.771	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.02	*		1070	1020	0.669	
PCB-99	*	*	n	NotFnd	0.98	*		1070	1020	0.699	
PCB-119	*	*	n	NotFnd	1.13	*		1070	1020	0.603	
PCB-83	*	*	n	NotFnd	0.90	*		1070	1020	0.760	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.90	*		1070	1020	0.760	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.08	*		1070	1020	0.630	
PCB-97	*	*	n	NotFnd	0.73	*		1070	1020	0.941	
PCB-86	*	*	n	NotFnd	0.79	*		1070	1020	0.862	
PCB-125	*	*	n	NotFnd	0.97	*		1070	1020	0.703	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.97	*		1070	1020	0.703	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.97	*		1070	1020	0.703	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.13	*		1070	1020	0.602	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.13	*		1070	1020	0.602	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.97	*		1070	1020	0.701	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.97	*		1070	1020	0.701	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.18	*		1070	1020	0.581	
PCB-110	*	*	n	NotFnd	1.10	*		1070	1020	0.619	
PCB-82	*	*	n	NotFnd	0.62	*		1070	1020	1.10	
PCB-124	*	*	n	NotFnd	1.10	*		816	1860	0.790	
PCB-108	*	*	n	NotFnd	1.20	*		816	1860	0.729	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.20	*		816	1860	0.729	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.01	*		816	1860	0.799	
13C-PCB-123	6.42e+07	1.59	y	38:18	1.31	1910					95.5
PCB-118	*	*	n	NotFnd	1.09	*		816	1860	0.833	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.09	*		816	1860	0.833	Co-elute PCB 118
13C-PCB-118	7.09e+07	1.59	y	38:30	1.46	1900					94.8
PCB-114	*	*	n	NotFnd	1.14	*		816	1860	0.762	
13C-PCB-114	6.51e+07	1.59	y	39:06	1.34	1900					95.1
PCB-122	*	*	n	NotFnd	1.16	*		816	1860	0.752	
PCB-105	*	*	n	NotFnd	1.19	*		816	1860	0.761	
13C-PCB-105	6.20e+07	1.57	y	39:55	1.32	1840					92.0

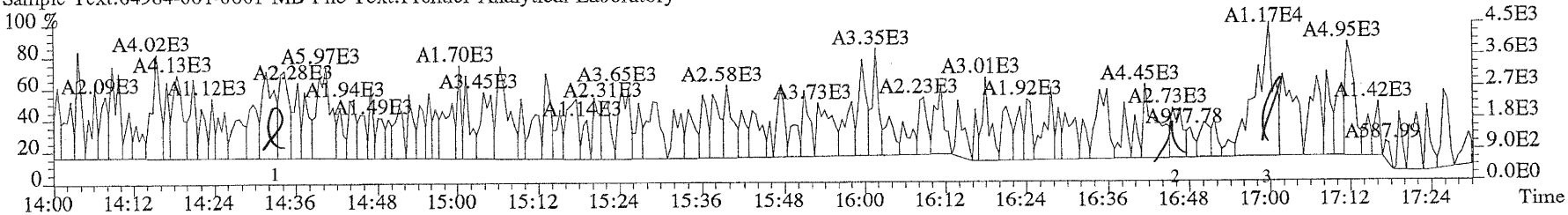
PCB-127	*	*	n	NotFnd	1.06	*		816	1860	0.825	
PCB-126	*	*	n	NotFnd	1.13	*		816	1860	0.928	
13C-PCB-126	5.76e+07	1.60	y	42:02	1.20	1880					93.9
PCB-151	*	*	n	NotFnd	0.98	*		820	620	0.578	
PCB-135	*	*	n	NotFnd	0.92	*		820	620	0.613	
PCB-144	*	*	n	NotFnd	1.05	*		820	620	0.537	
PCB-147	*	*	n	NotFnd	1.09	*		820	620	0.520	
PCB-139	*	*	n	NotFnd	1.08	*		820	620	0.526	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	1.08	*		820	620	0.526	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	1.07	*		820	620	0.530	
PCB-143	*	*	n	NotFnd	0.86	*		820	620	0.661	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.86	*		820	620	0.661	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.85	*		820	620	0.665	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.85	*		820	620	0.665	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.86	*		820	620	0.654	
PCB-165	*	*	n	NotFnd	1.17	*		820	620	0.484	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.17	*		820	620	0.484	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	1.07	*		820	620	0.529	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	1.07	*		820	620	0.529	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	1.16	*		820	620	0.487	
PCB-168	*	*	n	NotFnd	1.27	*		820	620	0.444	
PCB-141	*	*	n	NotFnd	0.93	*		820	620	0.610	
PCB-137	*	*	n	NotFnd	0.87	*		820	620	0.650	
PCB-130	*	*	n	NotFnd	0.85	*		820	620	0.665	
PCB-138	*	*	n	NotFnd	1.13	*		820	620	0.502	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.13	*		820	620	0.502	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.13	*		820	620	0.502	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.27	*		820	620	0.445	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.27	*		820	620	0.445	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.79	*		820	620	0.719	
PCB-166	*	*	n	NotFnd	1.20	*		820	620	0.472	
PCB-159	*	*	n	NotFnd	1.31	*		820	620	0.433	
PCB-128	*	*	n	NotFnd	1.03	*		820	620	0.550	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	1.03	*		820	620	0.550	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	1.13	*		820	620	0.520	
13C-PCB-167	5.45e+07	1.31	y	43:23	1.15	1850					92.5
PCB-156	*	*	n	NotFnd	1.23	*		820	620	0.459	
13C-PCB-156	5.27e+07	1.30	y	44:37	1.11	1850					92.4
PCB-157	*	*	n	NotFnd	1.15	*		820	620	0.516	
13C-PCB-157	5.51e+07	1.27	y	44:53	1.14	1880					94.2
PCB-169	*	*	n	NotFnd	1.11	*		820	620	0.465	
13C-PCB-169	5.23e+07	1.29	y	46:45	1.08	1890					94.6

FAL ID: 04984-001-0001-MB Filename: 25JUL19Z Sam:4 Acquired: 25-JUL-19 14:06:23 ICal: DAILY209FAL4-7-25-19
Client ID: Method Blank ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 5.000

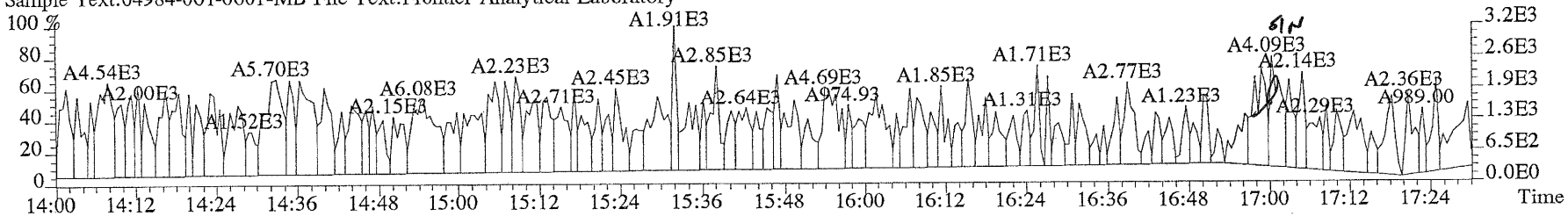
PCB-188	*	*	n	NotFnd	1.06	*	760	756	0.472	
13C-PCB-188	6.20e+07	1.06	y	39:41	1.26	1920				95.9
PCB-184	*	*	n	NotFnd	1.24	*	760	756	0.410	
PCB-179	*	*	n	NotFnd	1.13	*	760	756	0.450	
PCB-176	*	*	n	NotFnd	1.08	*	760	756	0.470	
PCB-186	*	*	n	NotFnd	1.13	*	760	756	0.451	
PCB-178	*	*	n	NotFnd	0.76	*	760	756	0.670	
PCB-175	*	*	n	NotFnd	0.77	*	760	756	0.661	
PCB-187	*	*	n	NotFnd	0.86	*	760	756	0.593	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.86	*	760	756	0.593	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.83	*	760	756	0.615	
PCB-185	*	*	n	NotFnd	0.74	*	760	756	0.684	
PCB-174	*	*	n	NotFnd	0.79	*	760	756	0.641	
PCB-181	*	*	n	NotFnd	0.70	*	760	756	0.721	
PCB-177	*	*	n	NotFnd	0.68	*	760	756	0.744	
PCB-171	*	*	n	NotFnd	0.74	*	760	756	0.687	
PCB-173	*	*	n	NotFnd	0.66	*	760	756	0.772	
PCB-172	*	*	n	NotFnd	0.69	*	760	756	0.735	
PCB-192	*	*	n	NotFnd	0.94	*	760	756	0.541	
PCB-180	*	*	n	NotFnd	0.69	*	760	756	0.735	
PCB-193	*	*	n	NotFnd	0.98	*	760	756	0.516	
PCB-191	*	*	n	NotFnd	0.94	*	760	756	0.539	
PCB-170	*	*	n	NotFnd	0.66	*	760	756	0.771	
PCB-190	*	*	n	NotFnd	0.93	*	760	756	0.545	
PCB-189	*	*	n	NotFnd	1.02	*	760	756	0.509	
13C-PCB-189	5.03e+07	1.05	y	48:24	1.00	1960				97.8
PCB-202	*	*	n	NotFnd	1.04	*	687	664	0.672	
PCB-201	*	*	n	NotFnd	1.12	*	687	664	0.625	
PCB-204	*	*	n	NotFnd	1.09	*	687	664	0.642	
PCB-197	*	*	n	NotFnd	1.15	*	687	664	0.606	
PCB-200	*	*	n	NotFnd	1.10	*	687	664	0.634	
PCB-198	*	*	n	NotFnd	0.73	*	687	664	0.954	
PCB-199	*	*	n	NotFnd	0.76	*	687	664	0.916	
PCB-203	*	*	n	NotFnd	0.85	*	687	664	0.823	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.85	*	687	664	0.823	Co-elute PCB 203
13C-PCB-202	4.35e+07	0.90	y	44:48	0.97	1760				87.8
13C-PCB-178	3.90e+07	1.07	y	42:19	0.83	1840				91.9
13C-PCB-138	5.12e+07	1.29	y	41:33	-	18.2				
PCB-195	*	*	n	NotFnd	0.77	*	899	1320	0.636	
PCB-194	*	*	n	NotFnd	0.84	*	899	1320	0.584	
PCB-205	*	*	n	NotFnd	1.04	*	899	1320	0.468	
13C-PCB-205	5.77e+07	0.89	y	50:05	1.31	1940				97.2
PCB-208	*	*	n	NotFnd	1.00	*	566	848	0.321	
13C-PCB-208	5.81e+07	0.80	y	49:08	1.32	1930				96.5
PCB-207	*	*	n	NotFnd	1.15	*	566	848	0.351	
PCB-206	*	*	n	NotFnd	1.04	*	566	848	0.500	
13C-PCB-206	4.06e+07	0.80	y	51:18	0.97	1830				91.7
PCB-209	*	*	n	NotFnd	1.11	*	616	536	0.317	
13C-PCB-209	5.08e+07	1.21	y	52:30	1.23	1810				90.7
13C-PCB-194	4.54e+07	0.92	y	49:49	-	18.3				

Analyst: _____ Date: 7/26/19

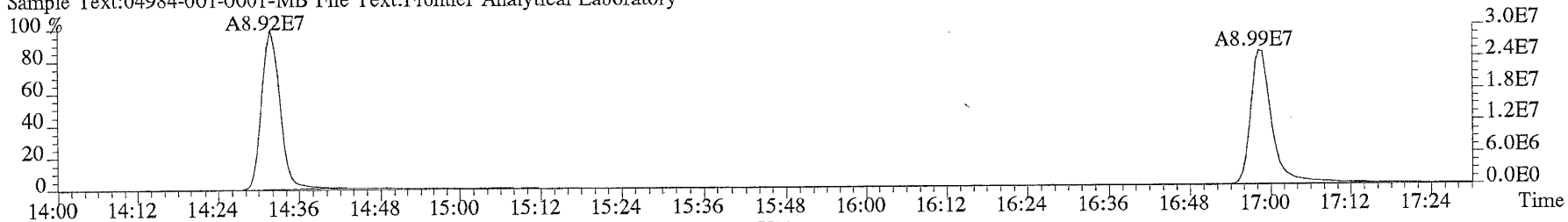
File:25JUL19Z #1-783 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-783 Acq:25-JUL-2019 14:06:23 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:04984-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-783 Acq:25-JUL-2019 14:06:23 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:04984-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-783 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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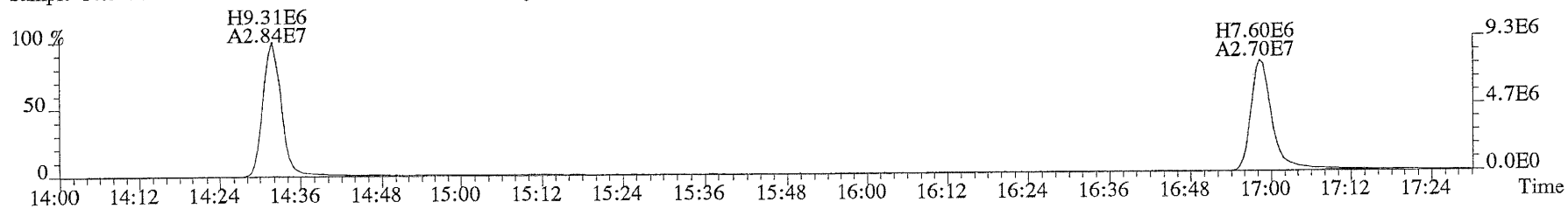
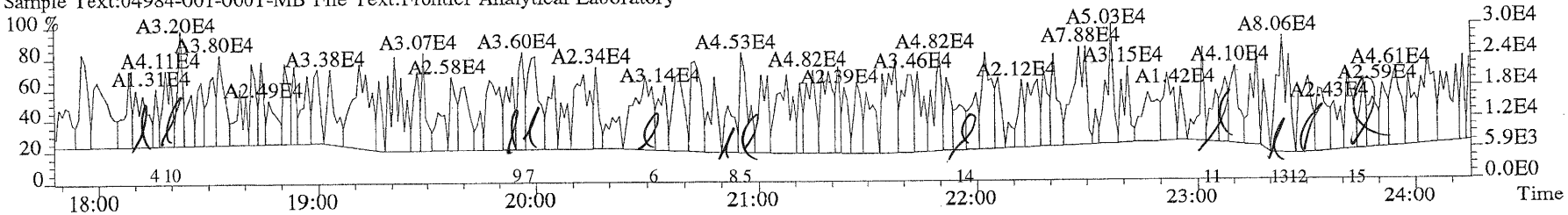
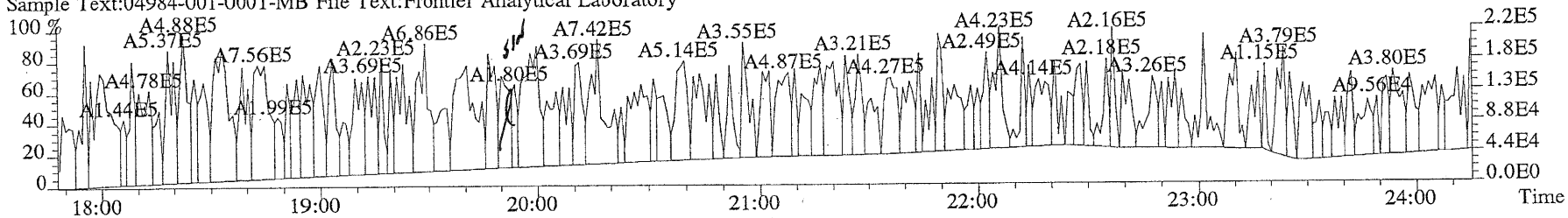


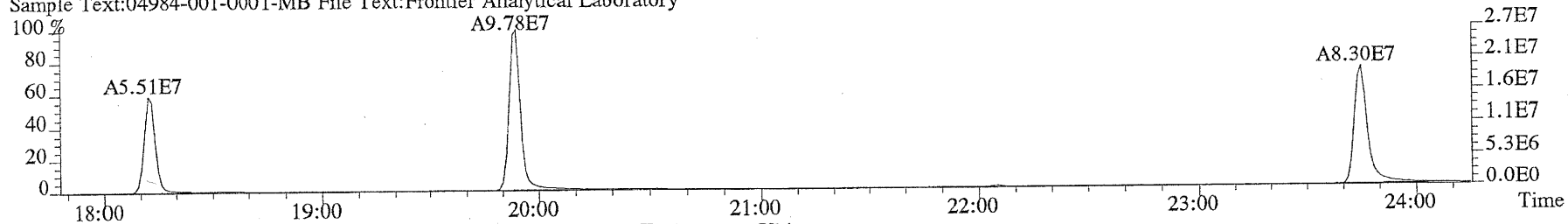
File:25JUL19Z #1-520 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



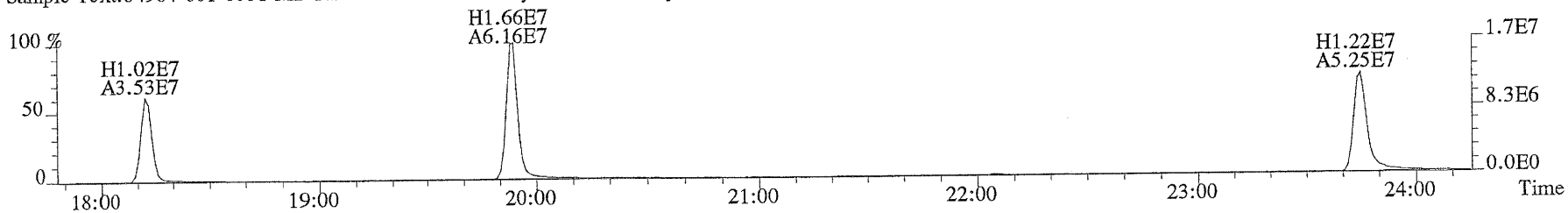
File:25JUL19Z #1-520 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



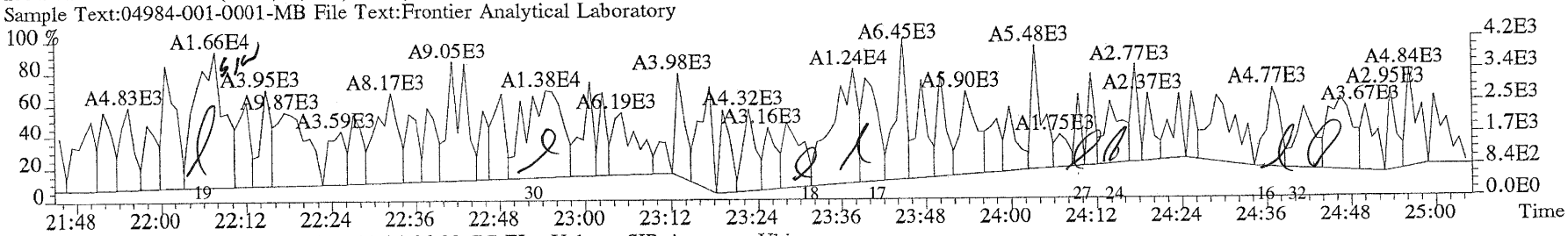
File:25JUL19Z #1-520 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



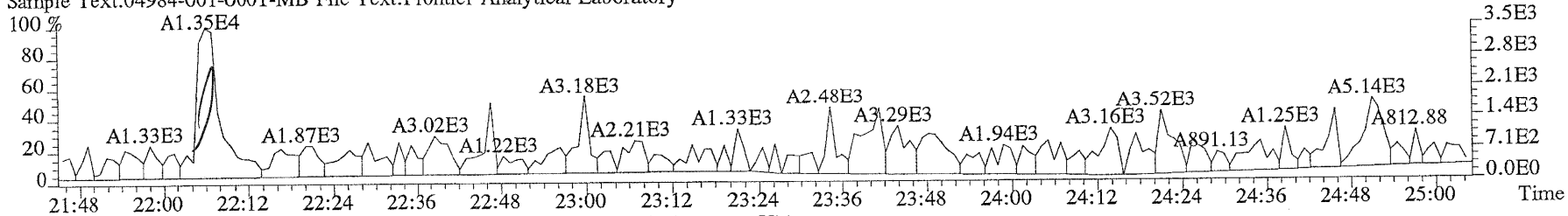
File:25JUL19Z #1-520 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



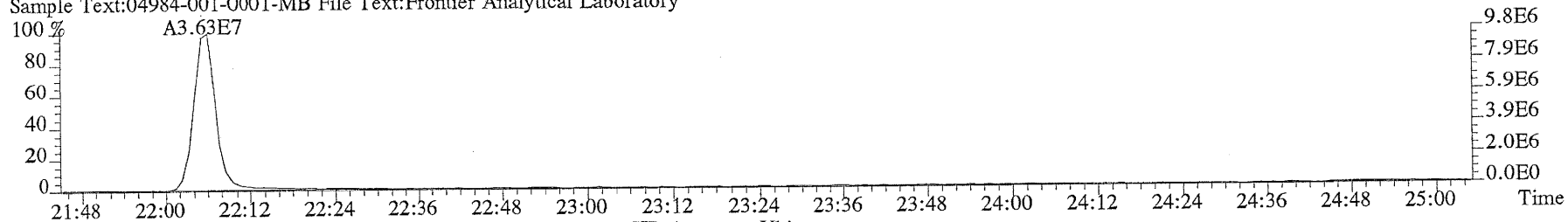
File:25JUL19Z #1-520 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



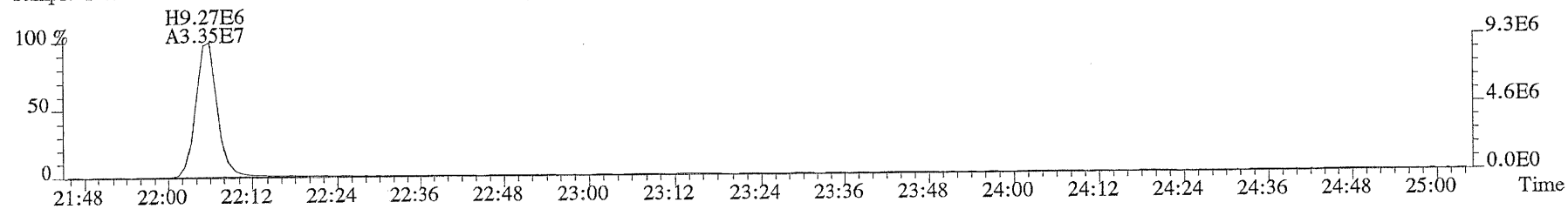
File:25JUL19Z #1-520 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



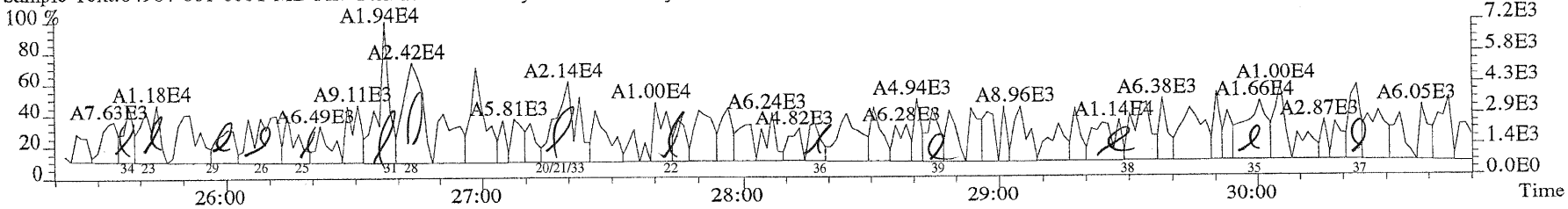
File:25JUL19Z #1-520 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



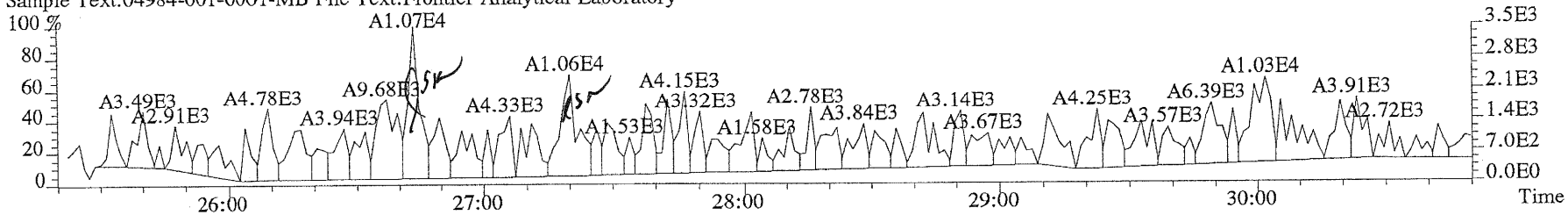
File:25JUL19Z #1-520 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-402 Acq:25-JUL-2019 14:06:23 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:04984-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-402 Acq:25-JUL-2019 14:06:23 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:04984-001-0001-MB File Text:Frontier Analytical Laboratory



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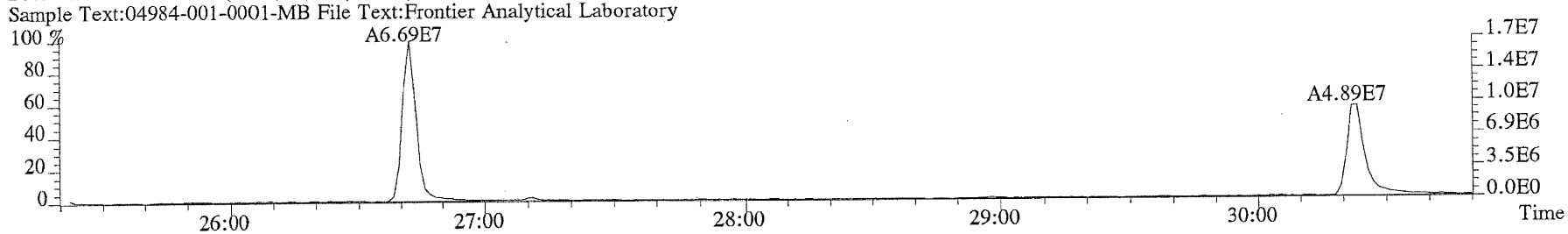
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



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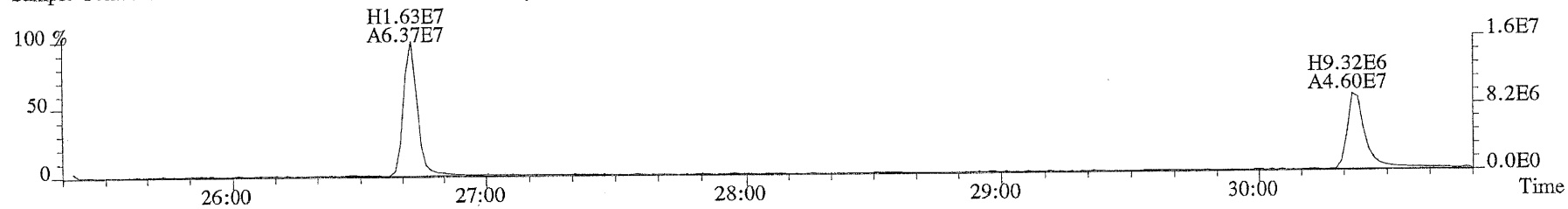
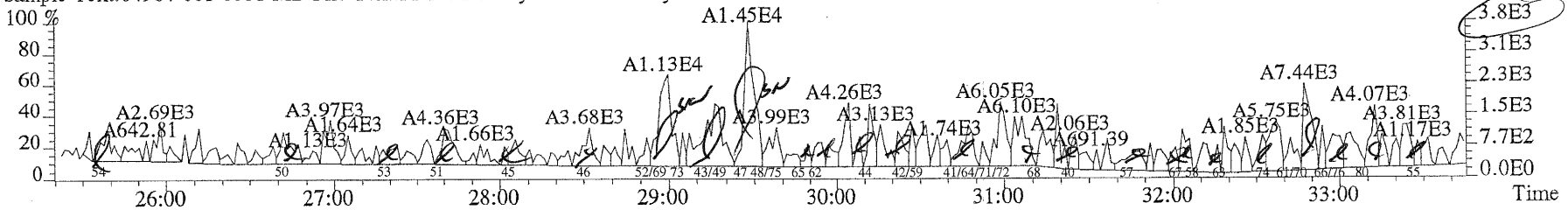
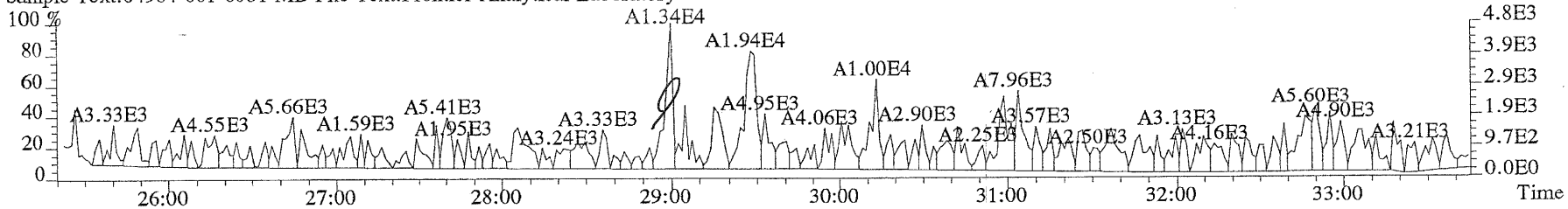
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



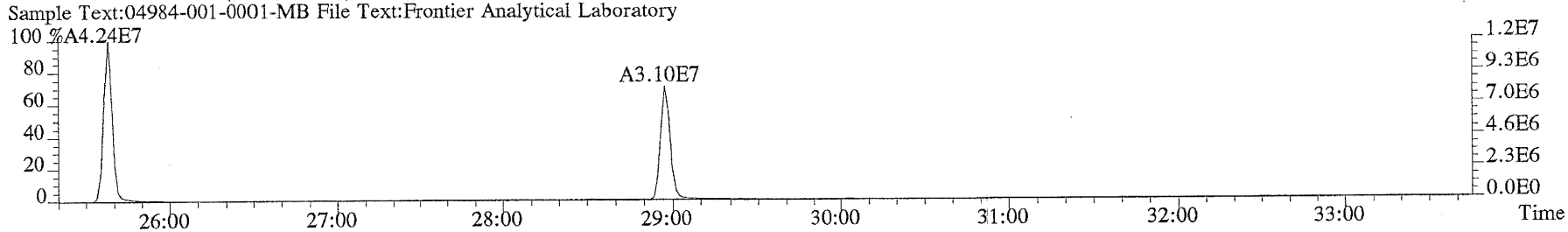
File:25JUL19Z #1-402 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



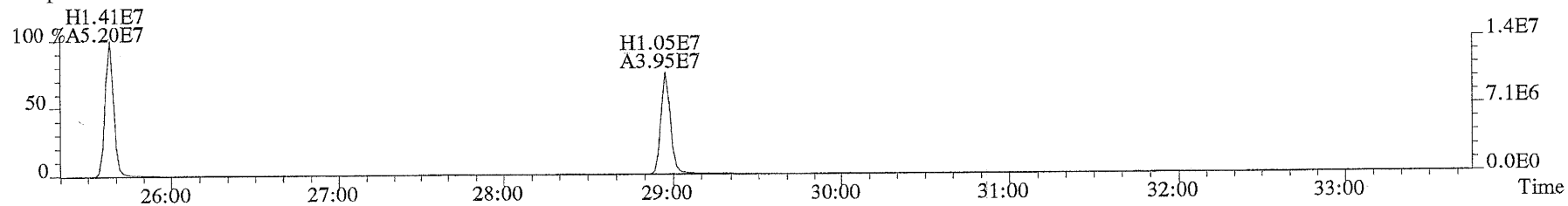
File:25JUL19Z #1-402 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



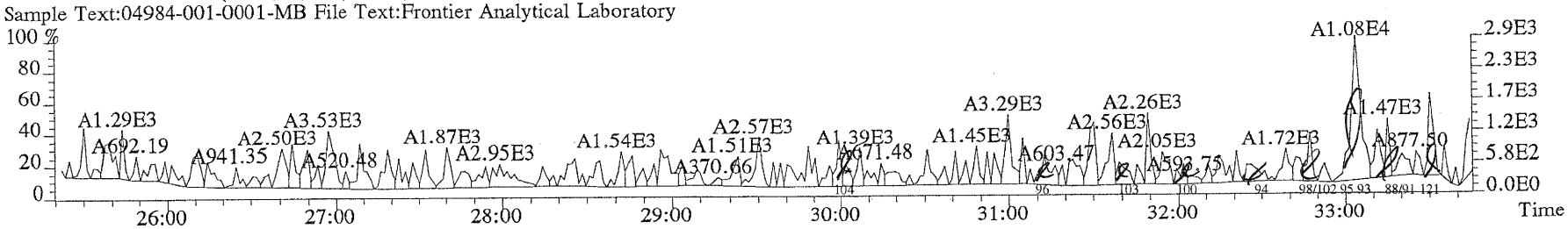
File:25JUL19Z #1-402 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



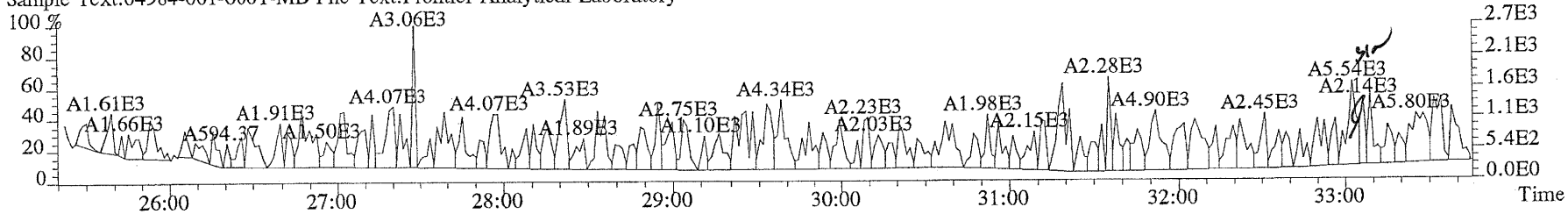
File:25JUL19Z #1-402 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



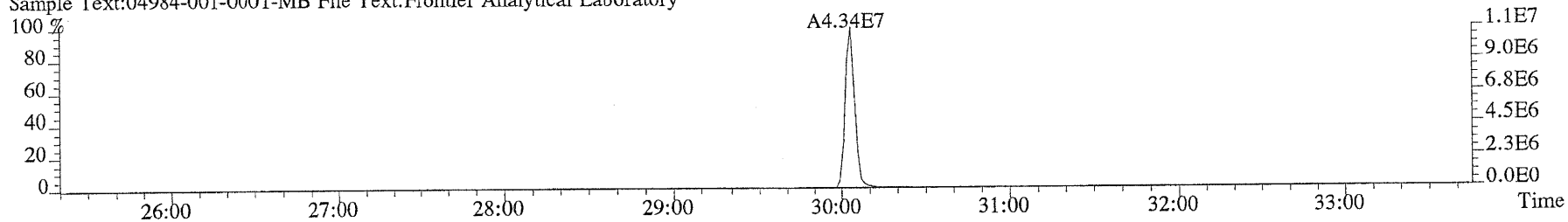
File:25JUL19Z #1-402 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



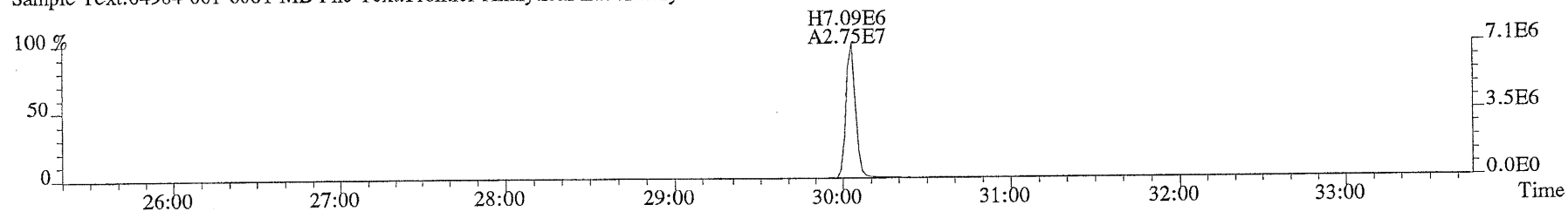
File:25JUL19Z #1-402 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



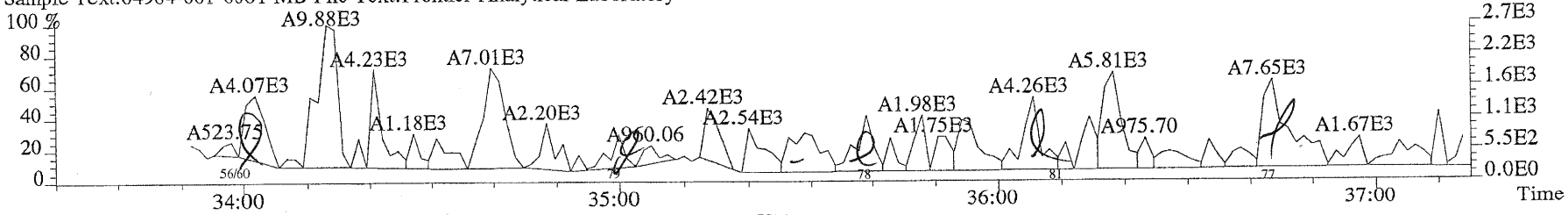
File:25JUL19Z #1-402 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



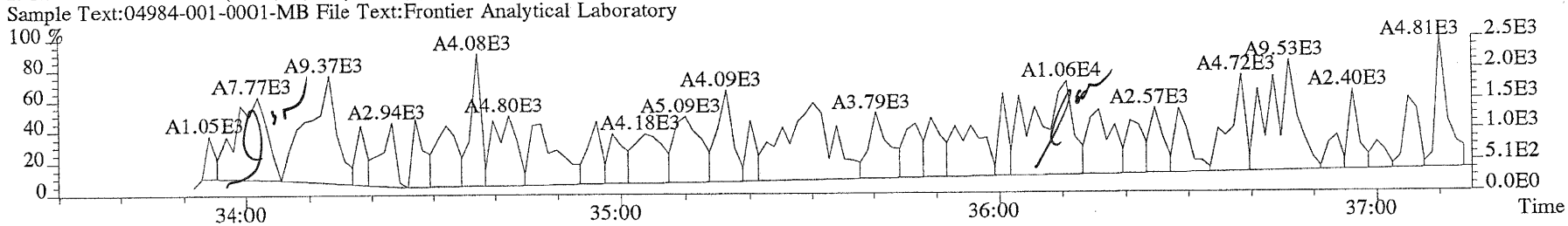
File:25JUL19Z #1-402 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



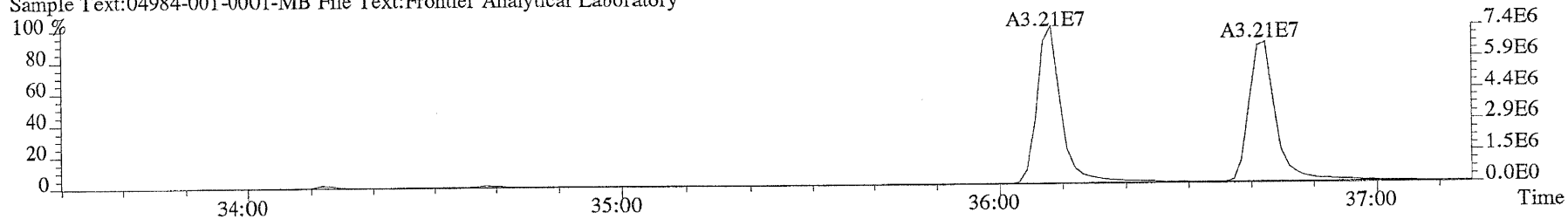
File:25JUL19Z #1-180 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



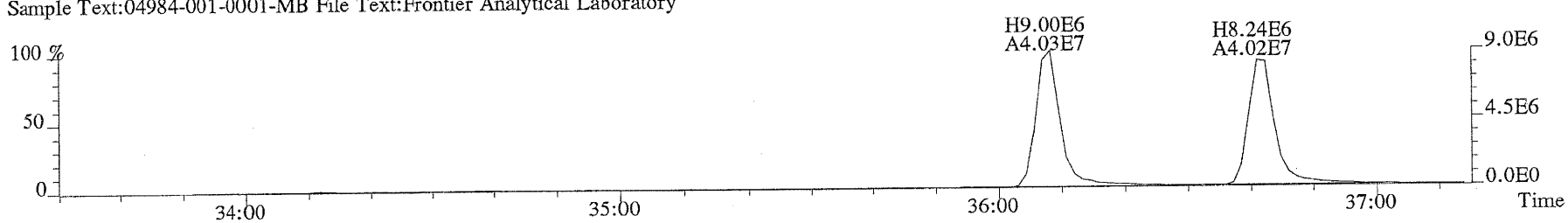
File:25JUL19Z #1-180 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



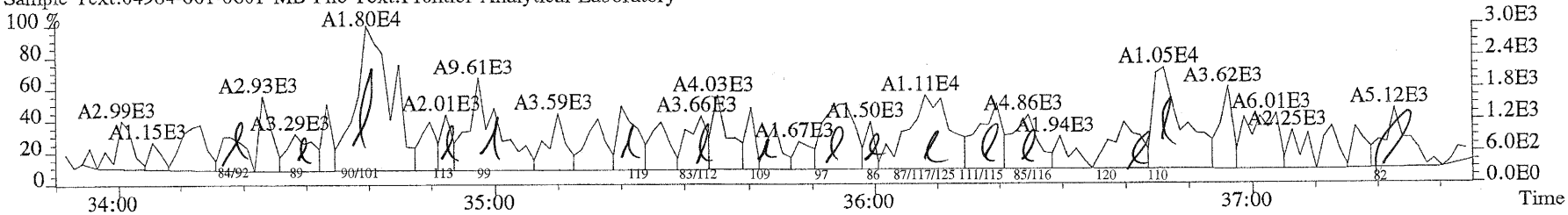
File:25JUL19Z #1-180 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



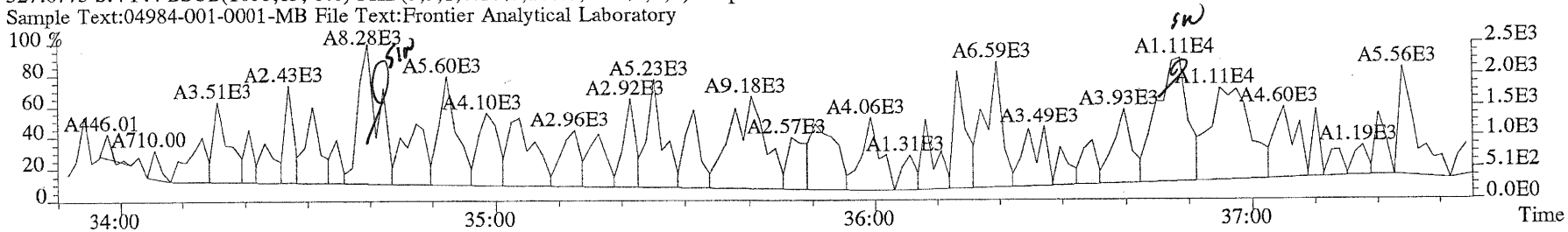
File:25JUL19Z #1-180 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



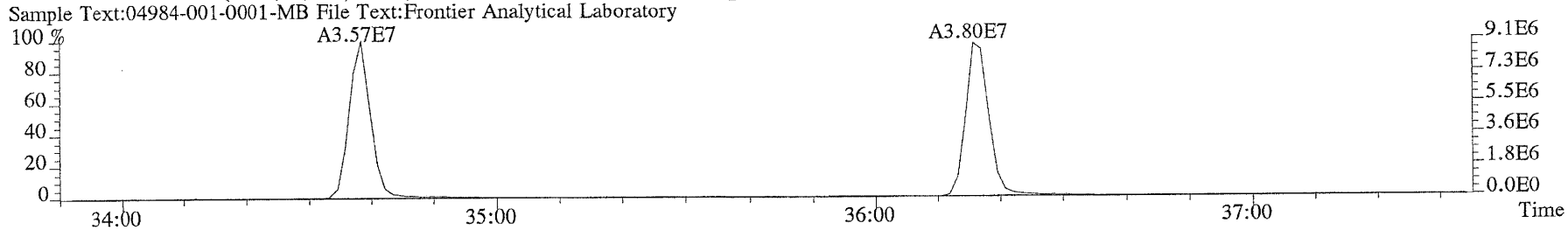
File:25JUL19Z #1-180 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



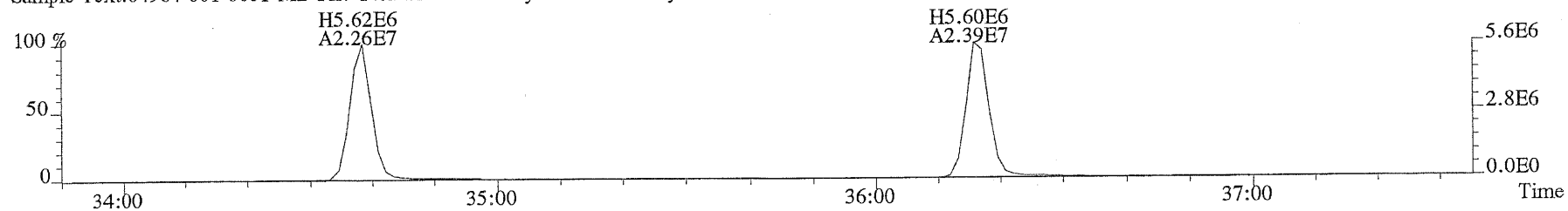
File:25JUL19Z #1-180 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



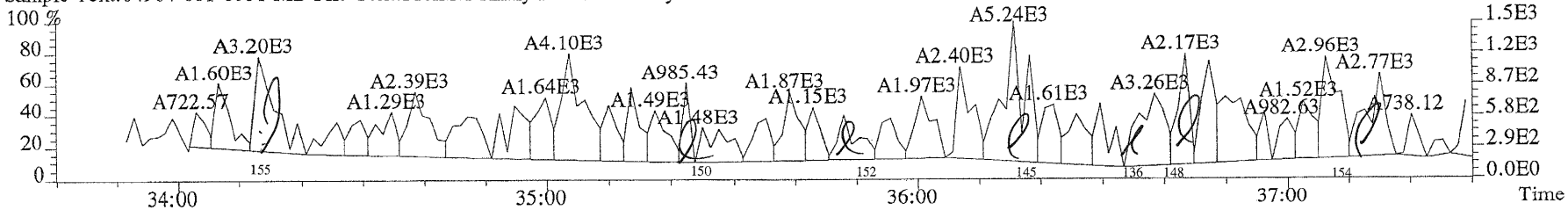
File:25JUL19Z #1-180 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



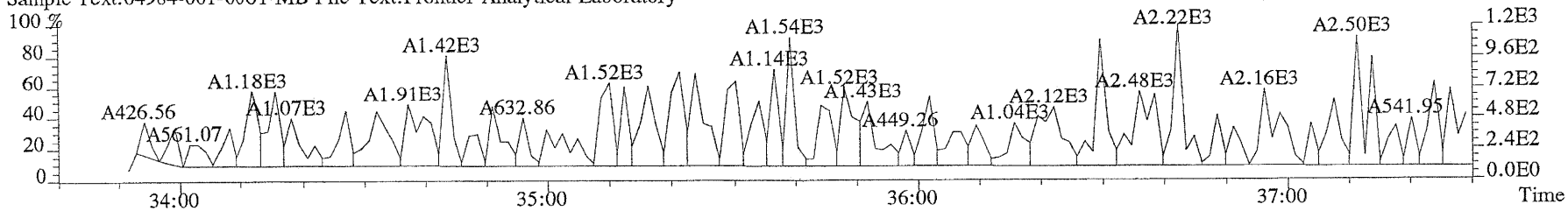
File:25JUL19Z #1-180 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



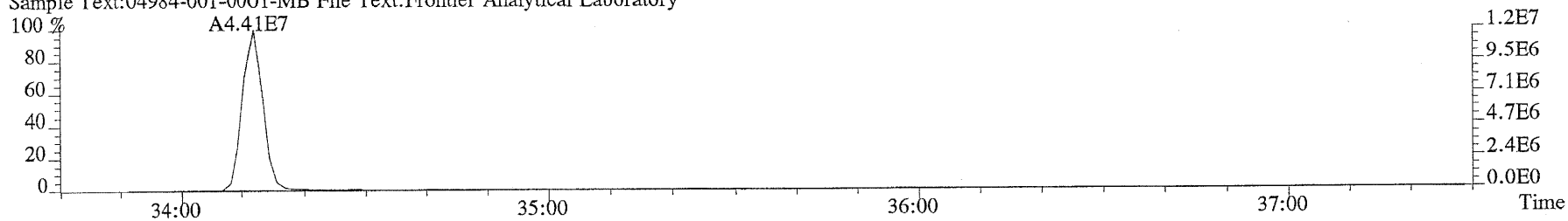
File:25JUL19Z #1-180 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



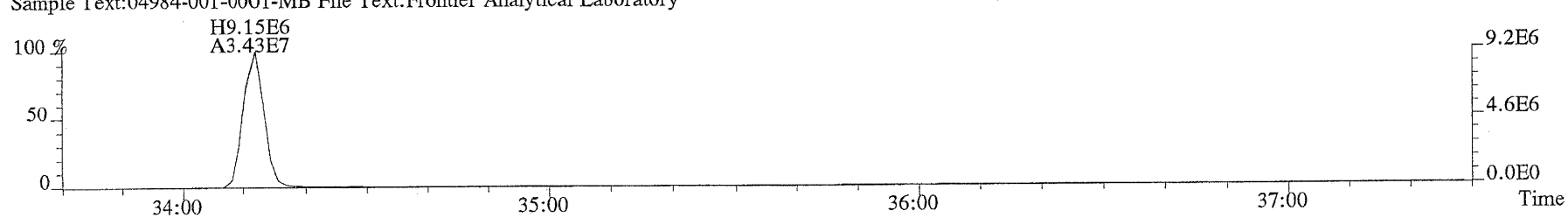
File:25JUL19Z #1-180 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



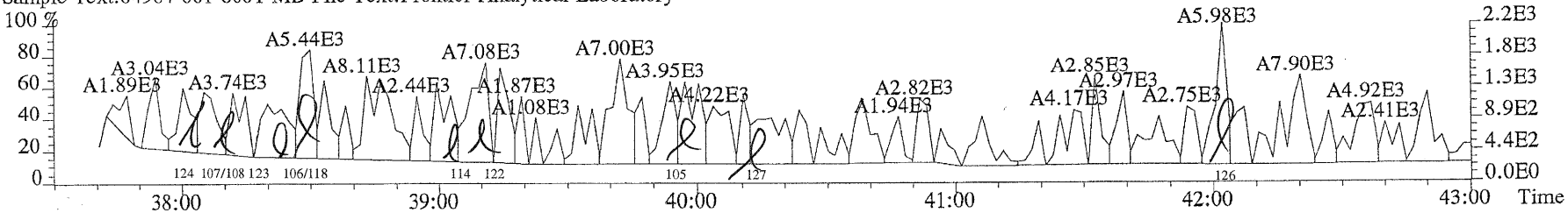
File:25JUL19Z #1-180 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



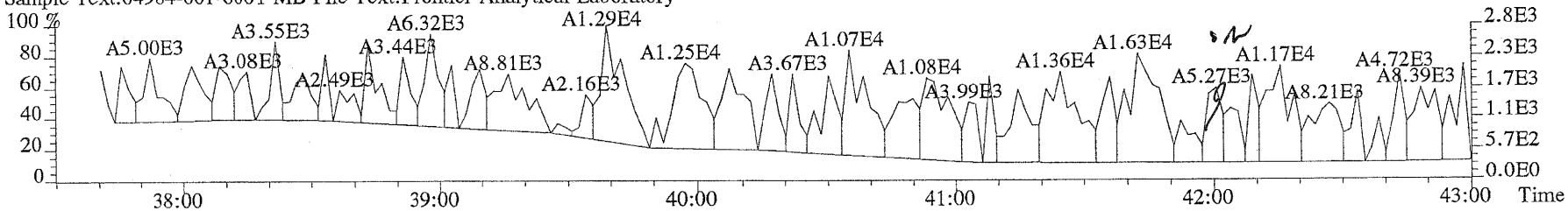
File:25JUL19Z #1-180 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



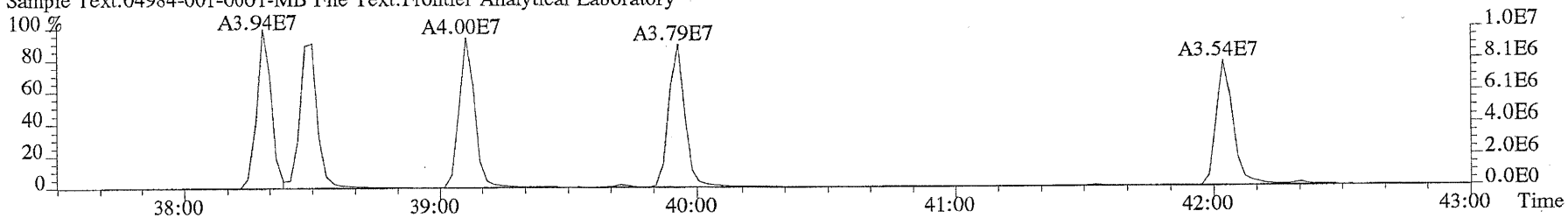
File:25JUL19Z #1-405 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



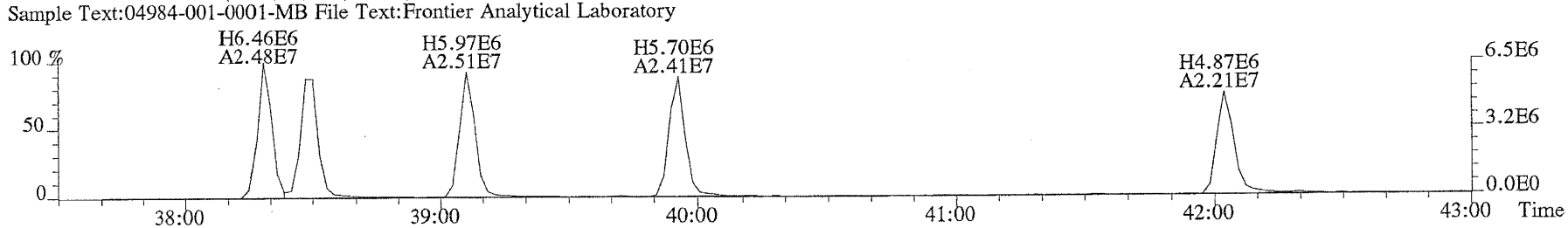
File:25JUL19Z #1-405 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



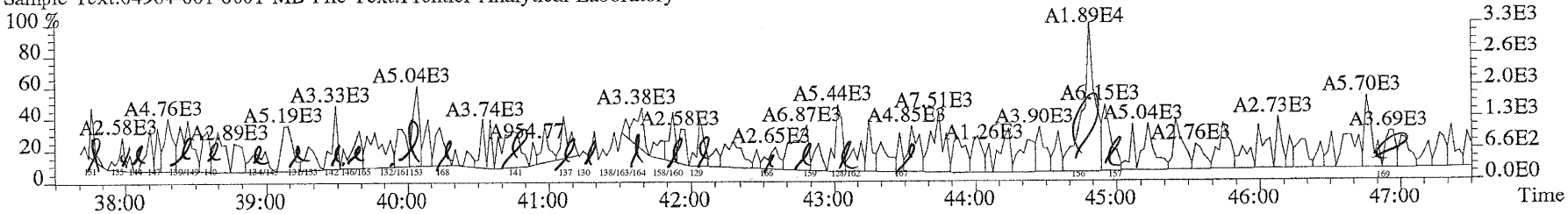
File:25JUL19Z #1-405 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



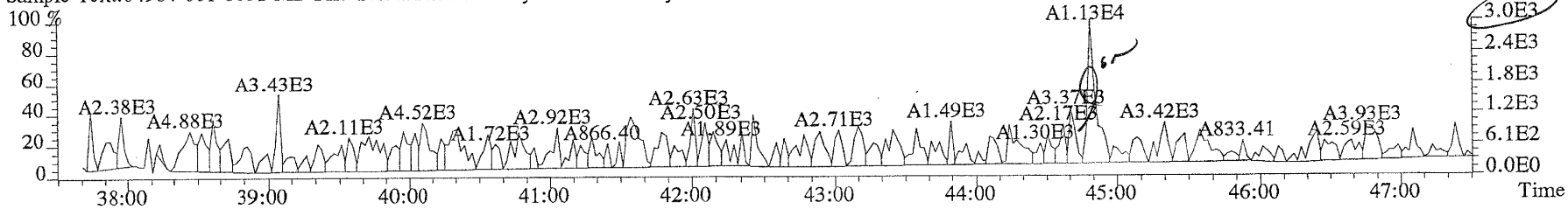
File:25JUL19Z #1-405 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



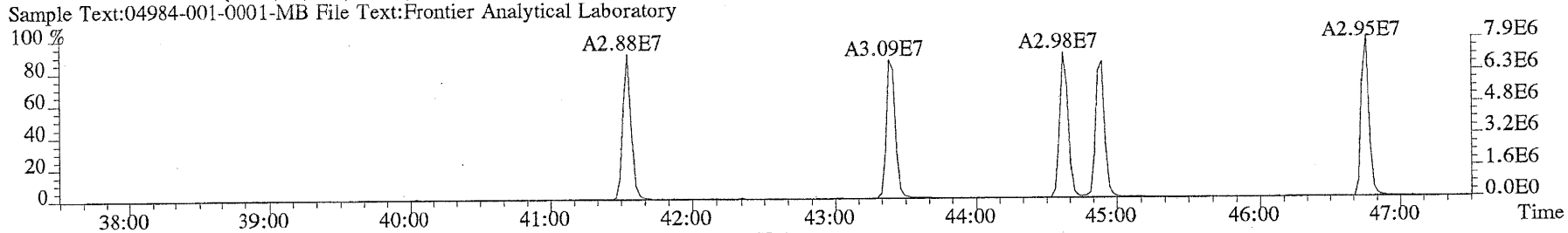
File:25JUL19Z #1-405 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 14:06:23 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:04984-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 14:06:23 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:04984-001-0001-MB File Text:Frontier Analytical Laboratory



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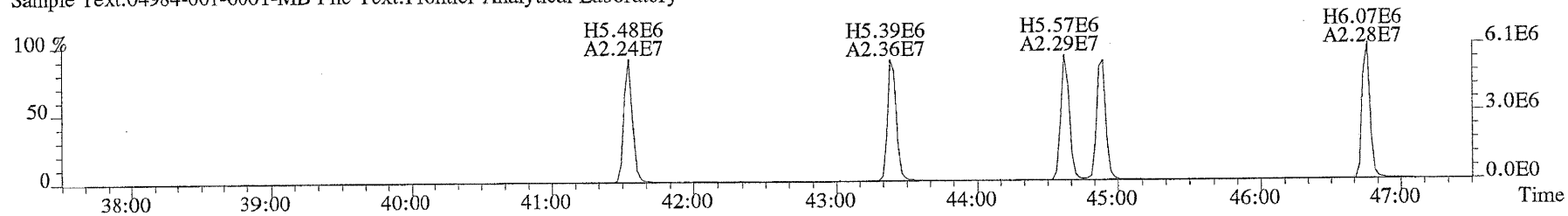
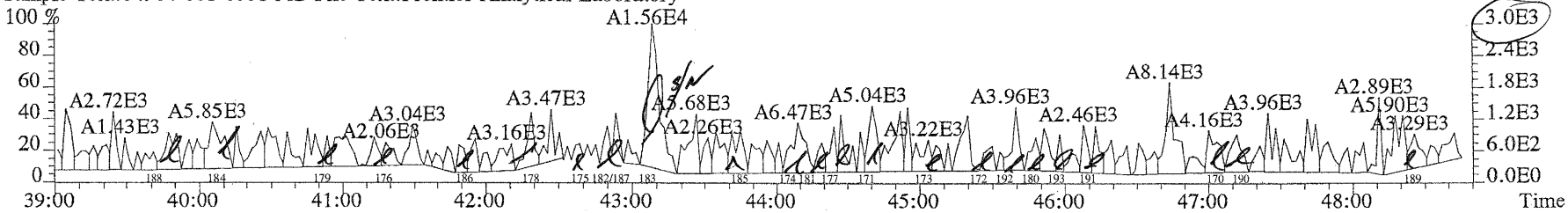
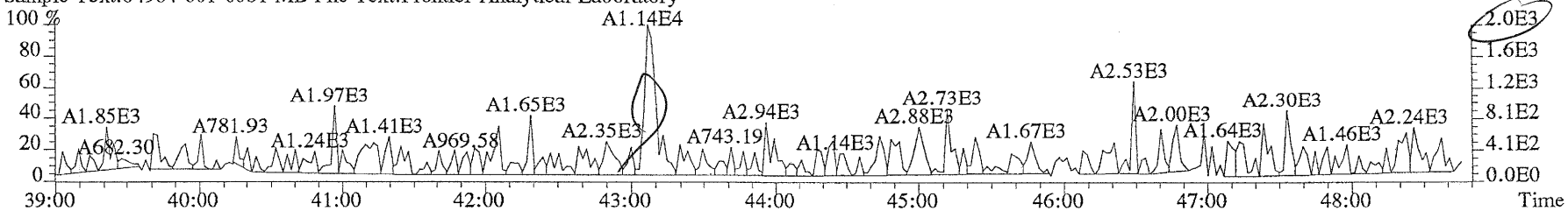
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



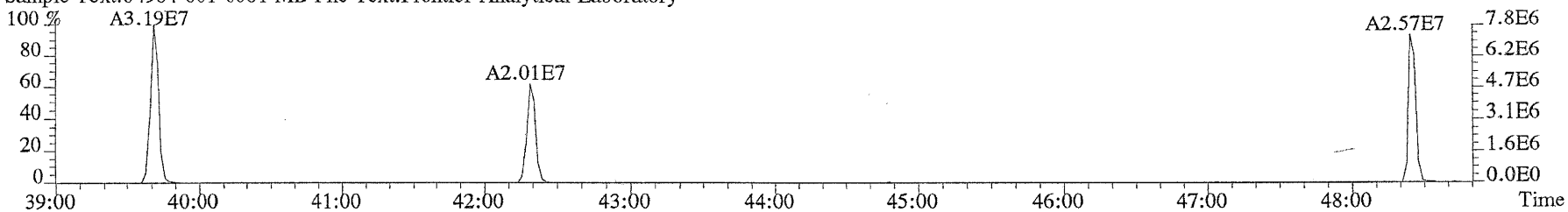
File:25JUL19Z #1-405 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



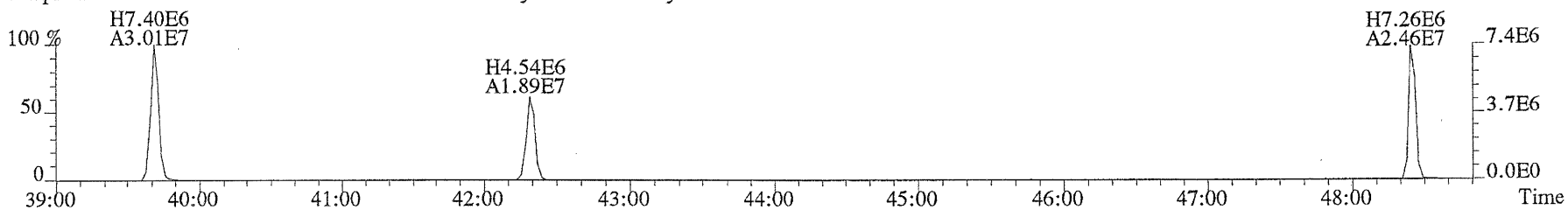
File:25JUL19Z #1-405 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



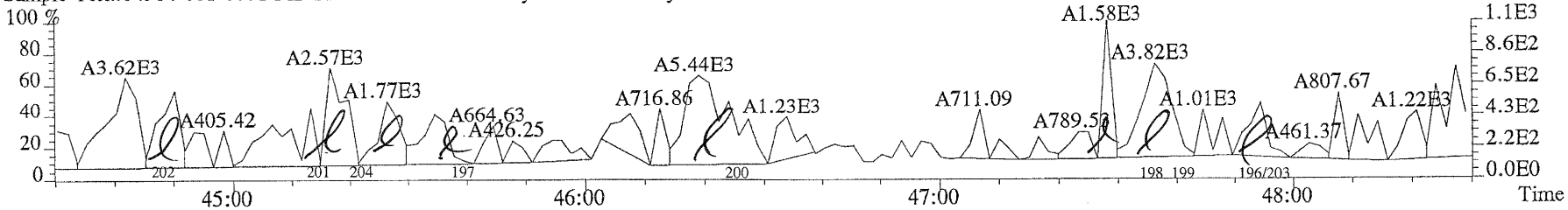
File:25JUL19Z #1-405 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



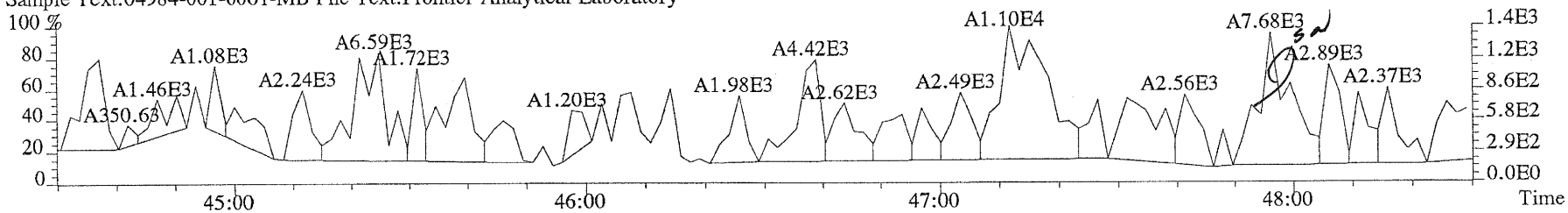
File:25JUL19Z #1-405 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



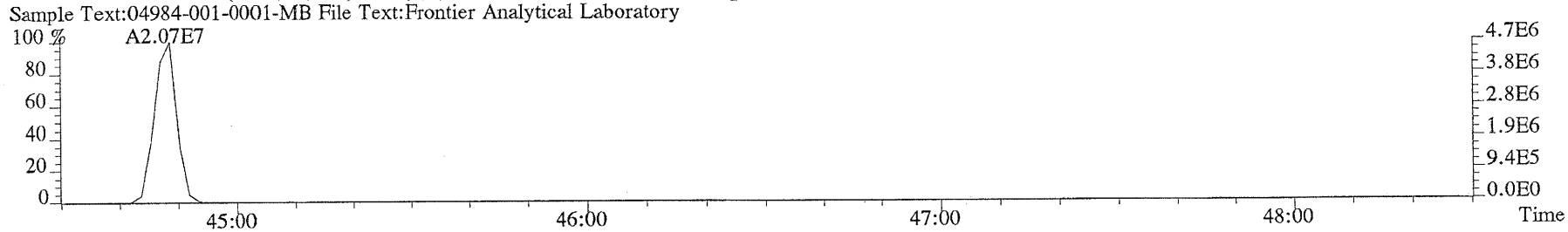
File:25JUL19Z #1-405 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



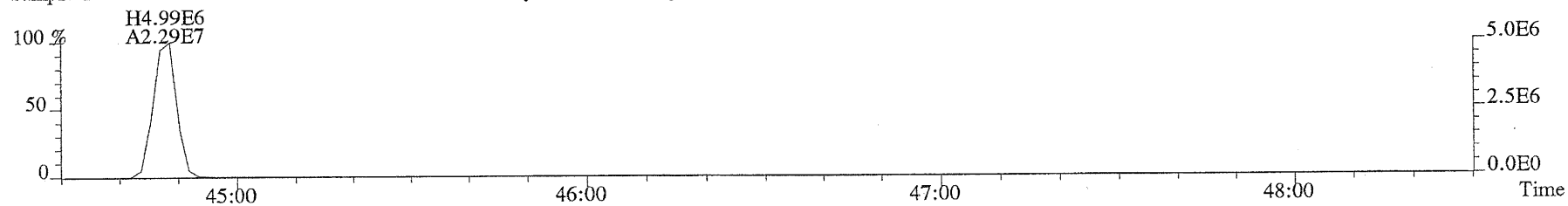
File:25JUL19Z #1-405 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



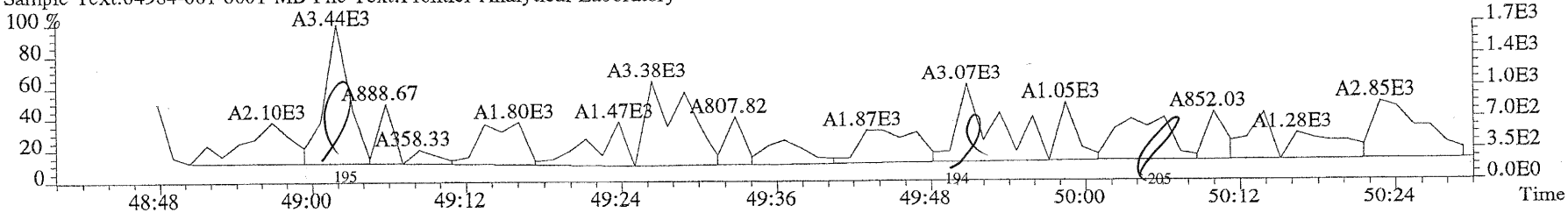
File:25JUL19Z #1-405 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



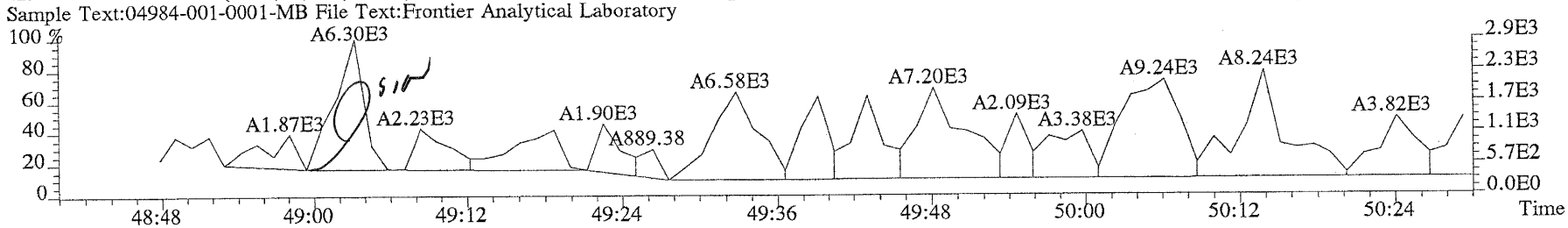
File:25JUL19Z #1-405 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



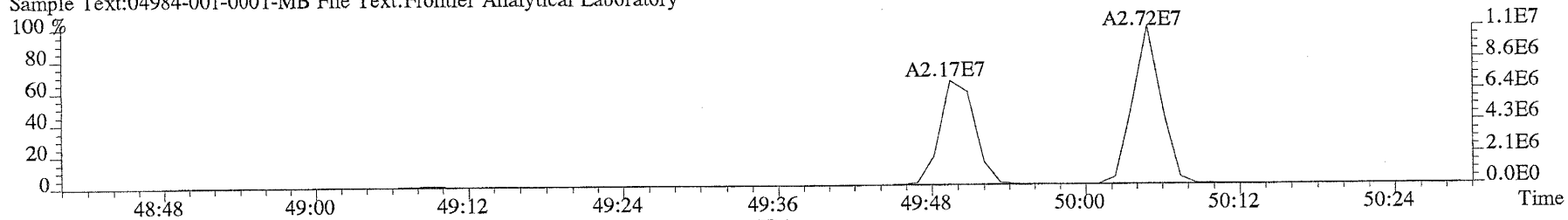
File:25JUL19Z #1-315 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



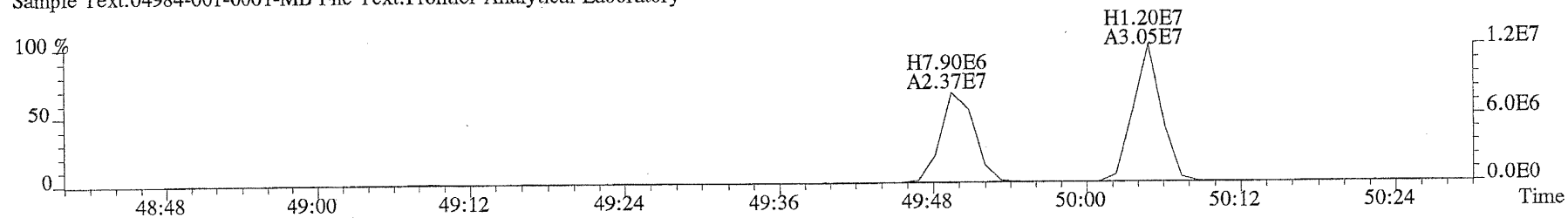
File:25JUL19Z #1-315 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



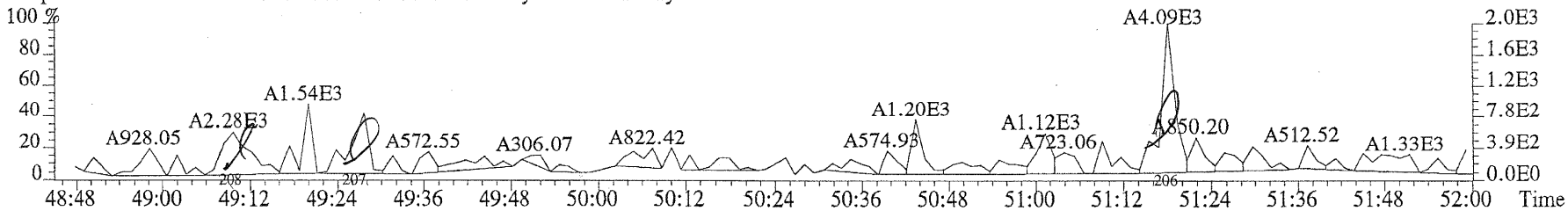
File:25JUL19Z #1-315 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



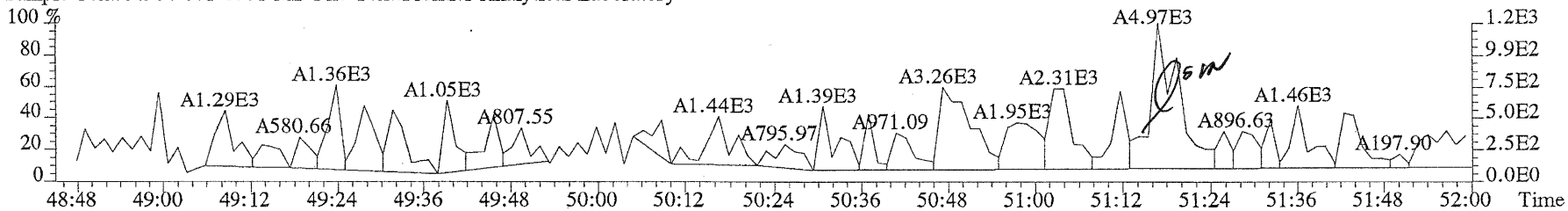
File:25JUL19Z #1-315 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



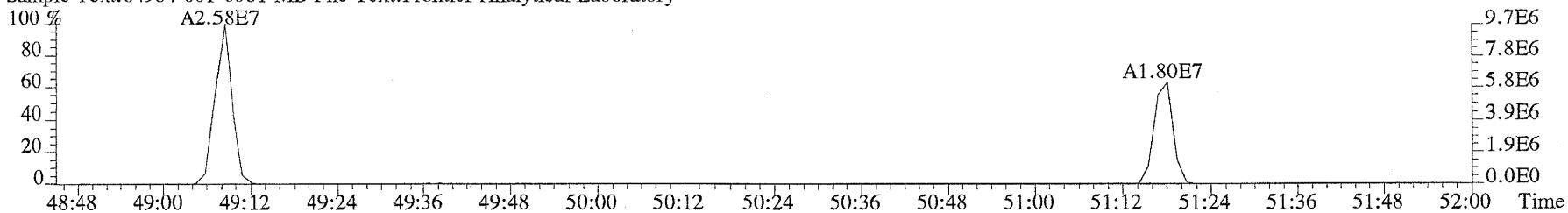
File:25JUL19Z #1-315 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



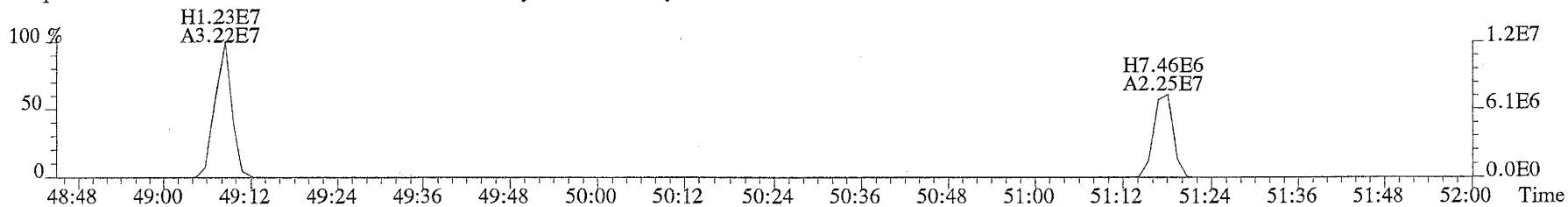
File:25JUL19Z #1-315 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



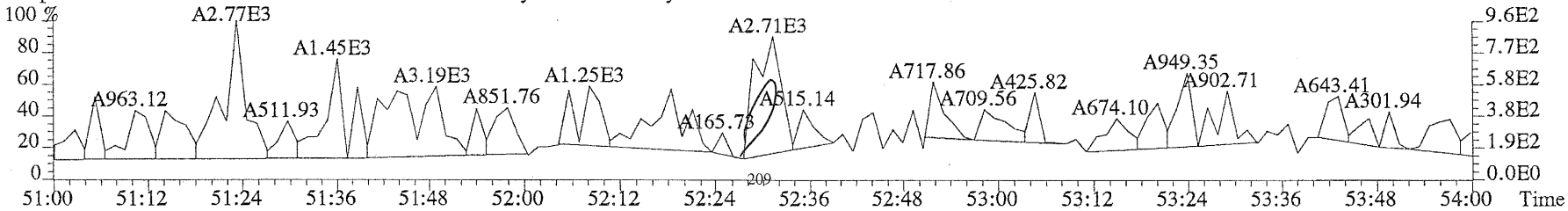
File:25JUL19Z #1-315 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



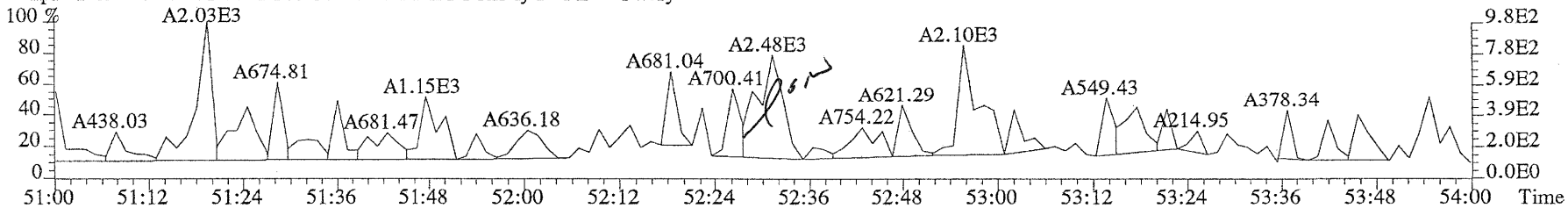
File:25JUL19Z #1-315 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



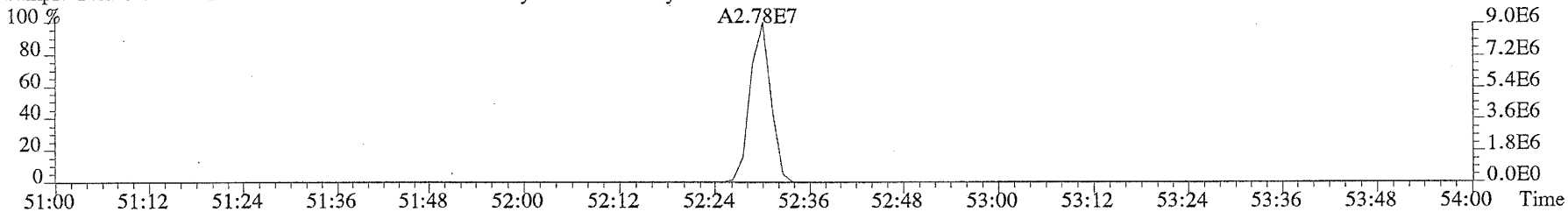
File:25JUL19Z #1-315 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



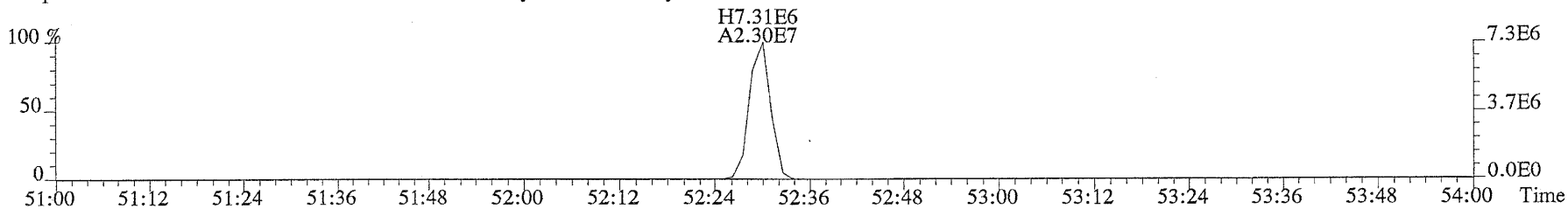
File:25JUL19Z #1-315 Acq:25-JUL-2019 14:06:23 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 14:06:23 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:04984-001-0001-MB File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 14:06:23 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:04984-001-0001-MB File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

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

Lab Name: Frontier Analytical Laboratory FAL ID: 04984-001-0001-OPR

Matrix (aqueous/solid/leachate): Sediment OPR Data Filename: 25JUL19Z Sam:3

Ext. Date: 7/24/19 Shift: Day Analysis Date: 25-JUL-19 13:07:37

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	49.6	30.0 - 67.5
PCB-3	50	49.5	30.0 - 67.5
PCB-4	50	51.0	30.0 - 67.5
PCB-15	50	46.3	30.0 - 67.5
PCB-19	50	48.6	30.0 - 67.5
PCB-37	50	44.1	30.0 - 67.5
PCB-54	50	50.0	30.0 - 67.5
PCB-77	50	50.2	30.0 - 67.5
PCB-81	50	45.0	30.0 - 67.5
PCB-104	50	50.3	30.0 - 67.5
PCB-105	50	44.3	30.0 - 67.5
PCB-114	50	45.0	30.0 - 67.5
PCB-118	50	48.7	30.0 - 67.5
PCB-123	50	51.6	30.0 - 67.5
PCB-126	50	46.0	30.0 - 67.5
PCB-155	50	50.9	30.0 - 67.5
PCB-156	50	46.5	30.0 - 67.5
PCB-157	50	47.7	30.0 - 67.5
PCB-167	50	48.8	30.0 - 67.5
PCB-169	50	50.7	30.0 - 67.5
PCB-188	50	48.6	30.0 - 67.5
PCB-189	50	49.3	30.0 - 67.5
PCB-202	50	52.6	30.0 - 67.5
PCB-205	50	51.6	30.0 - 67.5
PCB-206	50	50.7	30.0 - 67.5
PCB-208	50	51.8	30.0 - 67.5
PCB-209	50	48.7	30.0 - 67.5

Analyst: _____ Date: 7/26/19

Frontier Analytical Laboratory

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

Lab Name: Frontier Analytical Laboratory FAL ID: 04984-001-0001-OPR

Matrix (aqueous/solid/leachate): Sediment OPR Data Filename: 25JUL19Z Sam:3

Ext. Date: 7/24/19 Shift: Day Analysis Date: 25-JUL-19 13:07:37

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	82.6	15.0 - 145
13C-PCB-3	100	84.1	15.0 - 145
13C-PCB-4	100	84.0	15.0 - 145
13C-PCB-15	100	95.2	15.0 - 145
13C-PCB-19	100	86.9	15.0 - 145
13C-PCB-37	100	93.2	15.0 - 145
13C-PCB-54	100	94.7	15.0 - 145
13C-PCB-77	100	87.5	40.0 - 145
13C-PCB-81	100	89.5	40.0 - 145
13C-PCB-104	100	91.9	40.0 - 145
13C-PCB-105	100	93.8	40.0 - 145
13C-PCB-114	100	97.4	40.0 - 145
13C-PCB-118	100	94.6	40.0 - 145
13C-PCB-123	100	97.9	40.0 - 145
13C-PCB-126	100	90.1	40.0 - 145
13C-PCB-155	100	93.9	40.0 - 145
13C-PCB-156	100	90.8	40.0 - 145
13C-PCB-157	100	90.5	40.0 - 145
13C-PCB-167	100	92.6	40.0 - 145
13C-PCB-169	100	85.7	40.0 - 145
13C-PCB-188	100	99.2	40.0 - 145
13C-PCB-189	100	96.5	40.0 - 145
13C-PCB-202	100	98.9	40.0 - 145
13C-PCB-205	100	90.2	40.0 - 145
13C-PCB-206	100	86.2	40.0 - 145
13C-PCB-208	100	89.9	40.0 - 145
13C-PCB-209	100	87.8	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	110	15.0 - 145
13C-PCB-111	100	95.1	40.0 - 145
13C-PCB-178	100	99.3	40.0 - 145

Analyst: _____ Date: 7/24/19

FAL ID: 04984-001-0001-OPR Filename: 25JUL19Z Sam:3 Acquired: 25-JUL-19 13:07:37 ICal: DAILY209FAL4-7-25-19 1 of 2
Client ID: OPR ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 1.000

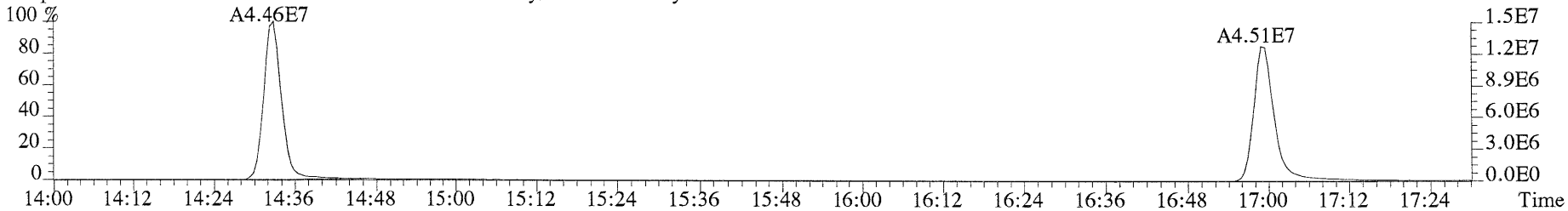
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	5.86e+07	3.19 y	14:33	1.17	49.6		2.50	-	-	*	
13C-PCB-1	1.01e+08	3.22 y	14:32	0.90	82.6		2.50				82.6
PCB-3	5.92e+07	3.19 y	16:59	1.20	49.5		2.50	-	-	*	
13C-PCB-3	9.99e+07	3.25 y	16:58	0.87	84.1		2.50				84.1
PCB-4	4.21e+07	1.49 y	18:14	1.10	51.0		2.50	-	-	*	
13C-PCB-4	7.51e+07	1.63 y	18:12	0.66	84.0		2.50				84.0
PCB-15	5.94e+07	1.56 y	23:46	1.10	46.3		2.50	-	-	*	
13C-PCB-15	1.16e+08	1.62 y	23:45	0.90	95.2		2.50				95.2
PCB-19	3.34e+07	1.06 y	22:07	1.19	48.6		2.50	-	-	*	
13C-PCB-19	5.78e+07	1.06 y	22:06	0.49	86.9		2.50				86.9
13C-PCB-9	1.36e+08	1.60 y	19:53	-	83.2		2.50				
PCB-37	4.14e+07	1.07 y	30:25	1.19	44.1		2.50	-	-	*	
13C-PCB-37	7.89e+07	1.08 y	30:23	1.40	93.2		2.50				93.2
PCB-54	4.74e+07	0.81 y	25:39	1.22	50.0		2.50	-	-	*	
13C-PCB-54	7.78e+07	0.81 y	25:38	1.36	94.7		2.50				94.7
PCB-104	3.28e+07	1.56 y	30:04	1.10	50.3		2.50	-	-	*	
13C-PCB-104	5.91e+07	1.57 y	30:03	1.06	91.9		2.50				91.9
13C-PCB-28	1.15e+08	1.05 y	26:42	1.72	110		2.50				110
13C-PCB-52	6.05e+07	0.79 y	28:59	-	80.6		2.50				
PCB-81	3.25e+07	0.81 y	36:09	1.25	45.0		2.50	-	-	*	
13C-PCB-81	5.78e+07	0.79 y	36:08	1.37	89.5		2.50				89.5
PCB-77	3.16e+07	0.81 y	36:44	1.06	50.2		2.50	-	-	*	
13C-PCB-77	5.94e+07	0.80 y	36:42	1.44	87.5		2.50				87.5
PCB-155	3.37e+07	1.26 y	34:14	1.04	50.9		2.50	-	-	*	
13C-PCB-155	6.38e+07	1.31 y	34:13	1.44	93.9		2.50				93.9
13C-PCB-111	5.49e+07	1.59 y	36:17	1.22	95.1		2.50				95.1
13C-PCB-101	4.73e+07	1.62 y	34:38	-	77.5		2.50				
PCB-123	2.81e+07	1.55 y	38:20	1.01	51.6		2.50	-	-	*	
13C-PCB-123	5.39e+07	1.60 y	38:20	1.31	97.9		2.50				97.9
PCB-118	3.06e+07	1.57 y	38:32	1.09	48.7		2.50	-	-	*	
13C-PCB-118	5.79e+07	1.61 y	38:30	1.46	94.6		2.50				94.6
PCB-114	2.78e+07	1.58 y	39:08	1.14	45.0		2.50	-	-	*	
13C-PCB-114	5.45e+07	1.59 y	39:08	1.34	97.4		2.50				97.4
PCB-105	2.73e+07	1.57 y	39:57	1.19	44.3		2.50	-	-	*	
13C-PCB-105	5.18e+07	1.59 y	39:56	1.32	93.8		2.50				93.8
PCB-126	2.35e+07	1.59 y	42:04	1.13	46.0		2.50	-	-	*	
13C-PCB-126	4.52e+07	1.58 y	42:02	1.20	90.1		2.50				90.1
PCB-167	2.46e+07	1.26 y	43:26	1.13	48.8		2.50	-	-	*	
13C-PCB-167	4.47e+07	1.28 y	43:25	1.15	92.6		2.50				92.6
PCB-156	2.42e+07	1.29 y	44:39	1.23	46.5		2.50	-	-	*	
13C-PCB-156	4.24e+07	1.27 y	44:39	1.11	90.8		2.50				90.8
PCB-157	2.38e+07	1.27 y	44:55	1.15	47.7		2.50	-	-	*	
13C-PCB-157	4.33e+07	1.28 y	44:53	1.14	90.5		2.50				90.5
PCB-169	2.18e+07	1.25 y	46:45	1.11	50.7		2.50	-	-	*	
13C-PCB-169	3.88e+07	1.30 y	46:45	1.08	85.7		2.50				85.7
PCB-188	2.70e+07	1.06 y	39:42	1.06	48.6		2.50	-	-	*	
13C-PCB-188	5.25e+07	1.04 y	39:42	1.26	99.2		2.50				99.2
PCB-189	2.04e+07	1.05 y	48:26	1.02	49.3		2.50	-	-	*	
13C-PCB-189	4.06e+07	1.07 y	48:26	1.00	96.5		2.50				96.5
PCB-202	2.19e+07	0.91 y	44:50	1.04	52.6		2.50	-	-	*	
13C-PCB-202	4.02e+07	0.90 y	44:49	0.97	98.9		2.50				98.9
13C-PCB-178	3.45e+07	1.05 y	42:20	0.83	99.3		2.50				99.3
13C-PCB-138	4.19e+07	1.30 y	41:33	-	74.3		2.50				

FAL ID: 04984-001-0001-OPR Filename: 25JUL19Z Sam:3 Acquired: 25-JUL-19 13:07:37 ICal: DAILY209FAL4-7-25-19 2 of 2
Client ID: OPR ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 1.000

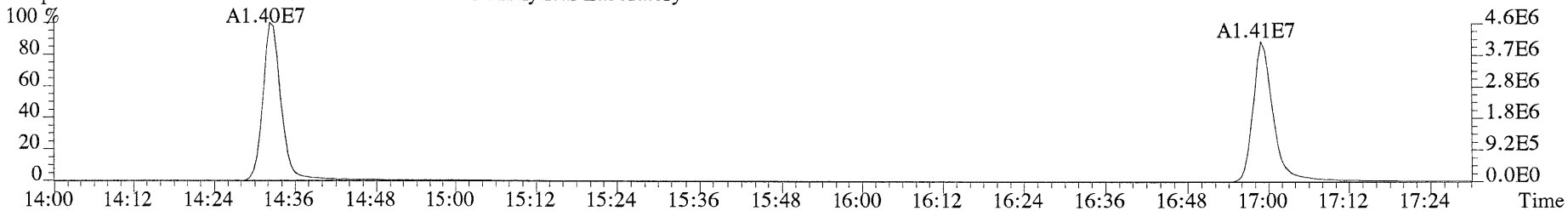
PCB-205	2.45e+07	0.90 y	50:06	1.04	51.6	2.50	-	-	*	
13C-PCB-205	4.55e+07	0.90 y	50:05	1.31	90.2	2.50				90.2
PCB-208	2.39e+07	1.36 y	49:10	1.00	51.8	2.50	-	-	*	
13C-PCB-208	4.59e+07	0.81 y	49:08	1.32	89.9	2.50				89.9
PCB-206	1.71e+07	1.35 y	51:18	1.04	50.7	2.50	-	-	*	
13C-PCB-206	3.24e+07	0.79 y	51:17	0.97	86.2	2.50				86.2
PCB-209	2.26e+07	1.20 y	52:30	1.11	48.7	2.50	-	-	*	
13C-PCB-209	4.18e+07	1.20 y	52:29	1.23	87.8	2.50				87.8
13C-PCB-194	3.86e+07	0.90 y	49:49	-	77.5	2.50				

Analyst: _____ Date: 7/26/19

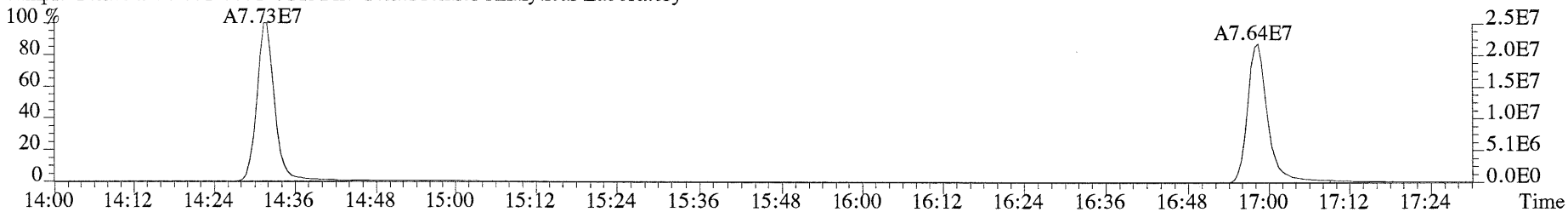
File:25JUL19Z #1-783 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



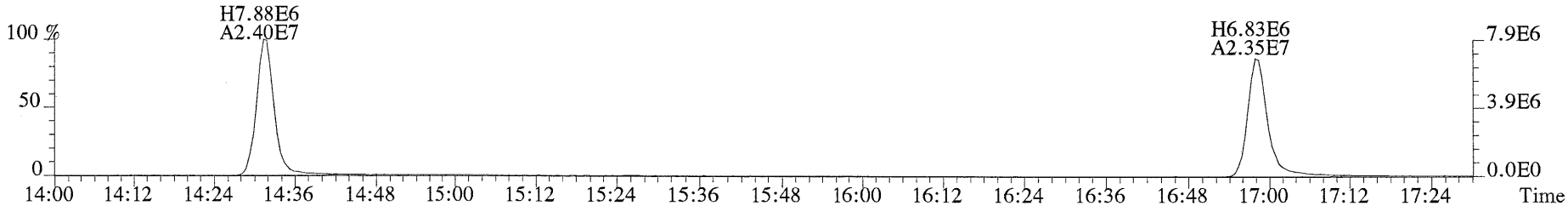
File:25JUL19Z #1-783 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



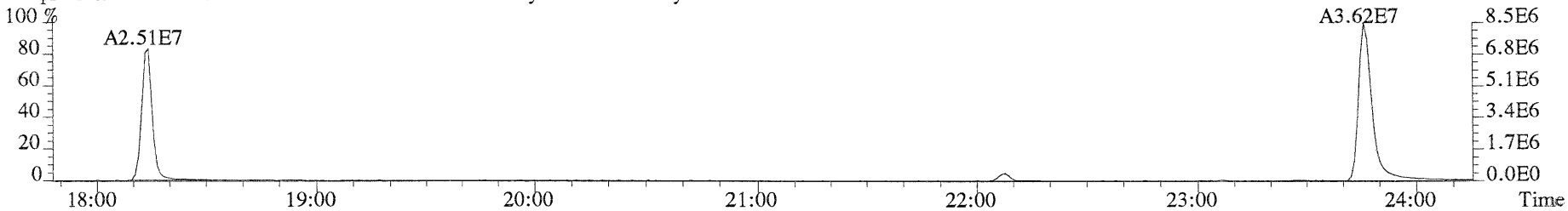
File:25JUL19Z #1-783 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



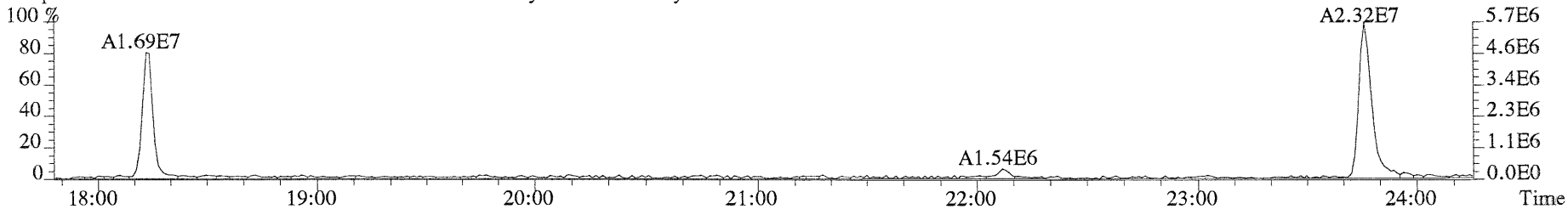
File:25JUL19Z #1-783 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



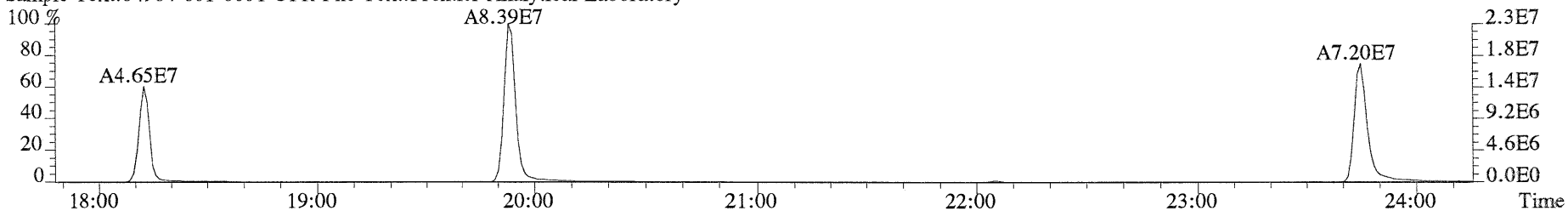
File:25JUL19Z #1-520 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



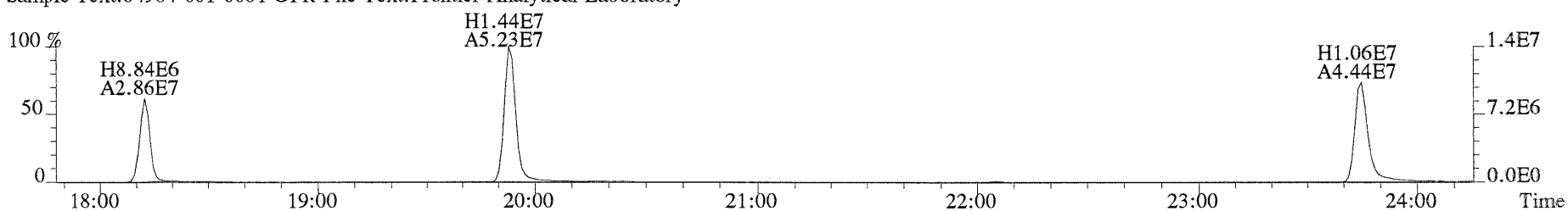
File:25JUL19Z #1-520 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



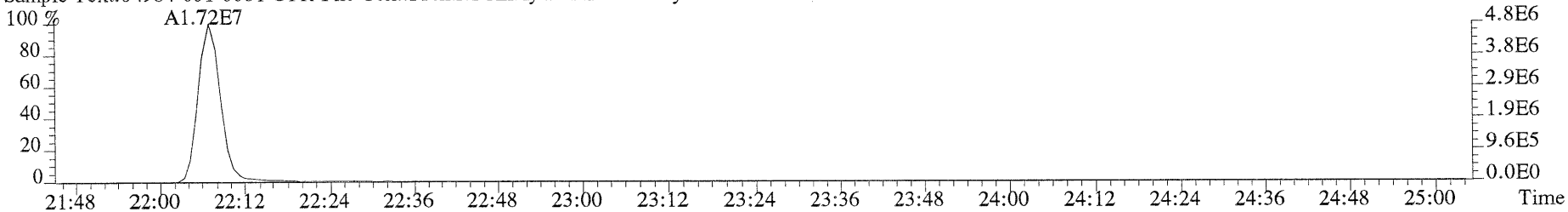
File:25JUL19Z #1-520 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



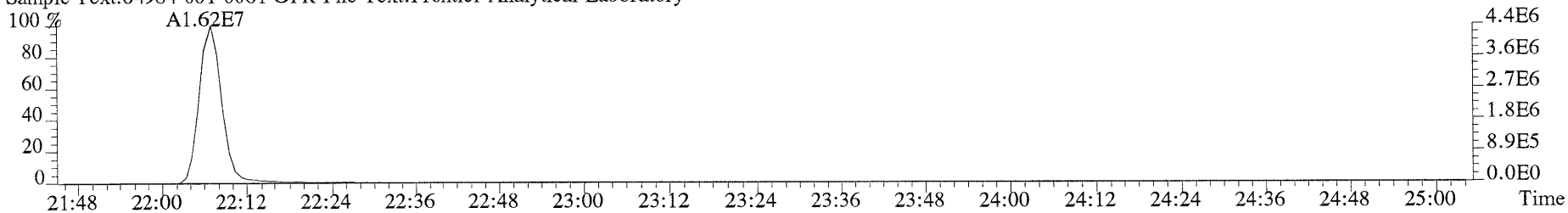
File:25JUL19Z #1-520 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



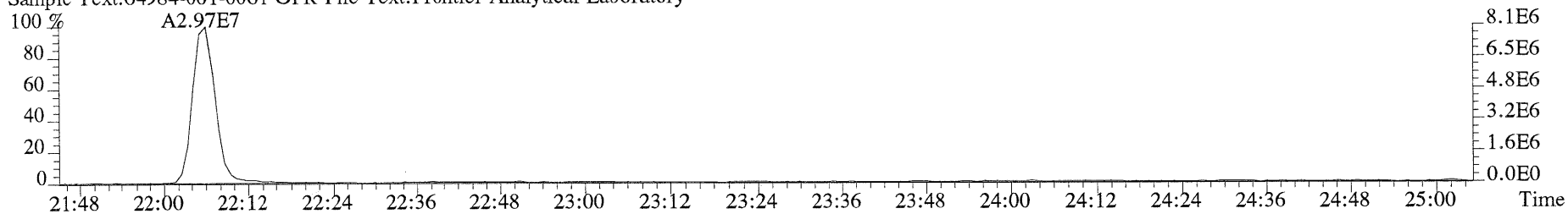
File:25JUL19Z #1-520 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



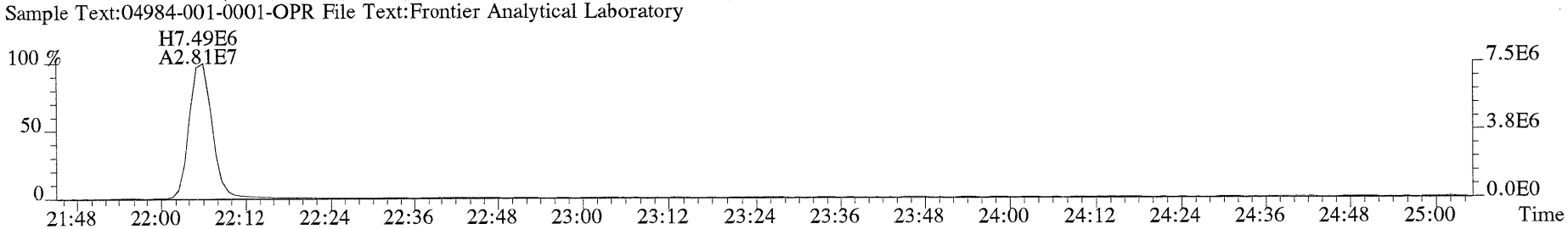
File:25JUL19Z #1-520 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



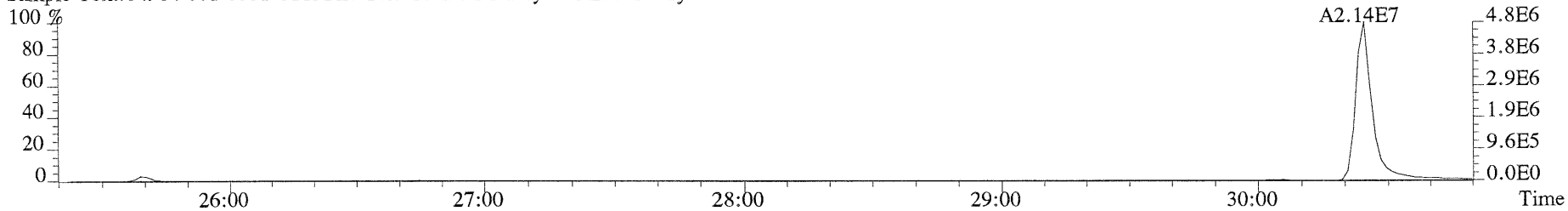
File:25JUL19Z #1-520 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



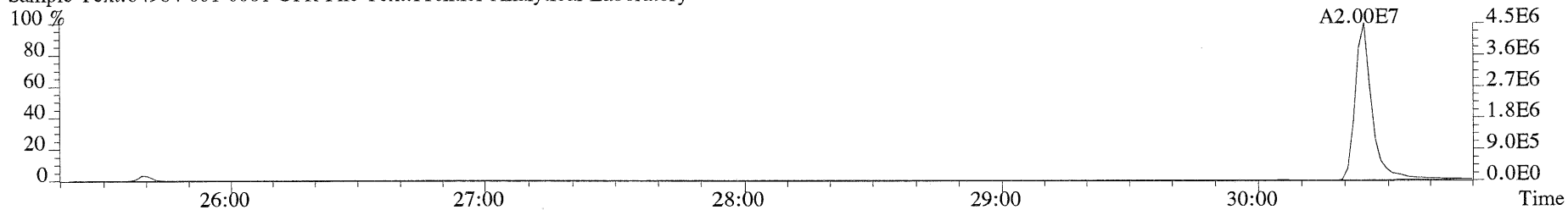
File:25JUL19Z #1-520 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



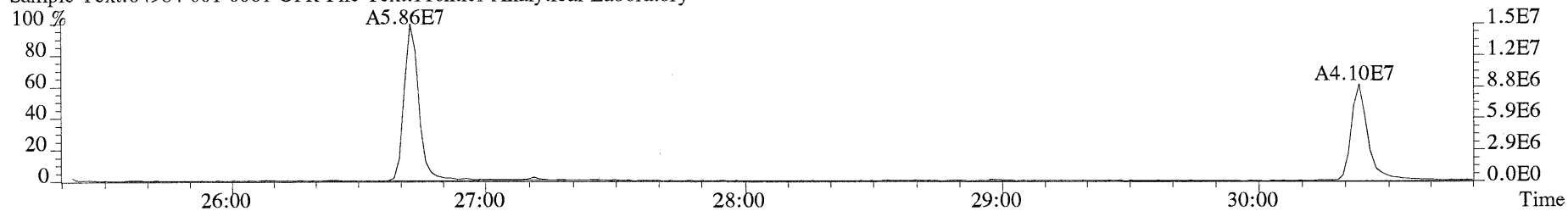
File:25JUL19Z #1-401 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



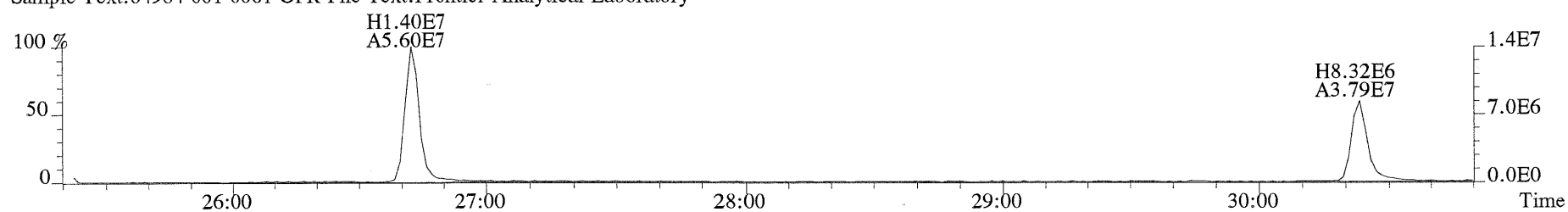
File:25JUL19Z #1-401 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



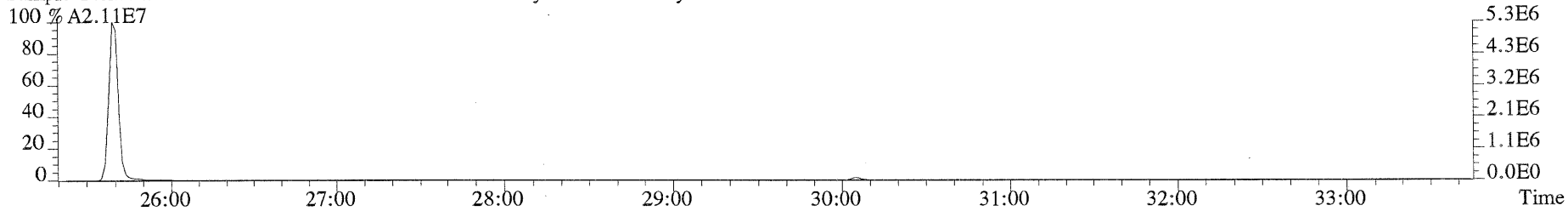
File:25JUL19Z #1-401 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



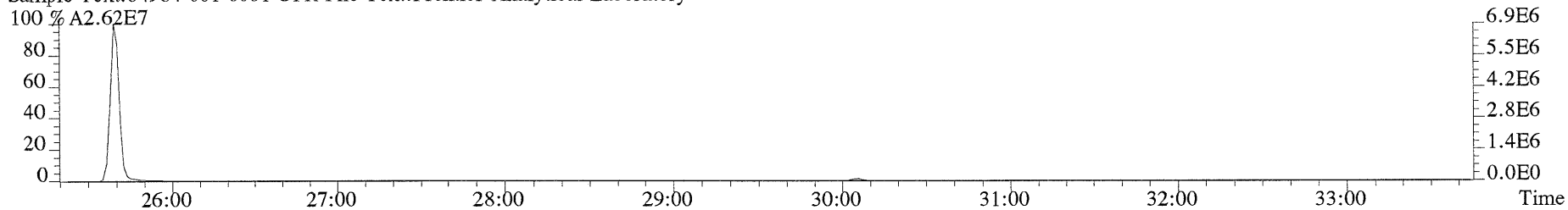
File:25JUL19Z #1-401 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



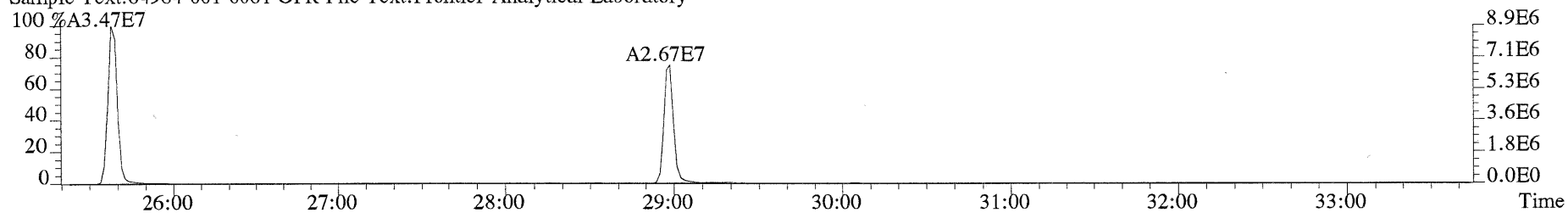
File:25JUL19Z #1-401 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



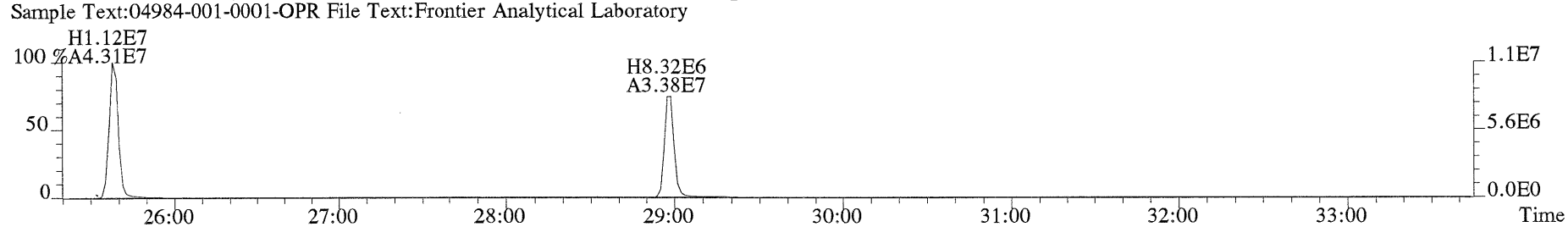
File:25JUL19Z #1-401 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



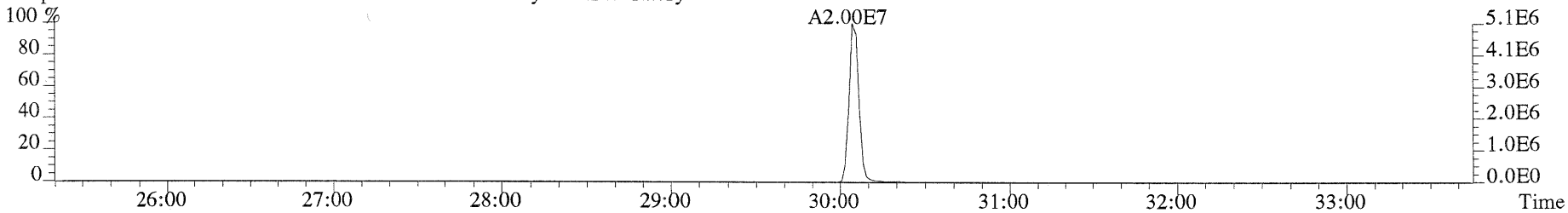
File:25JUL19Z #1-401 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



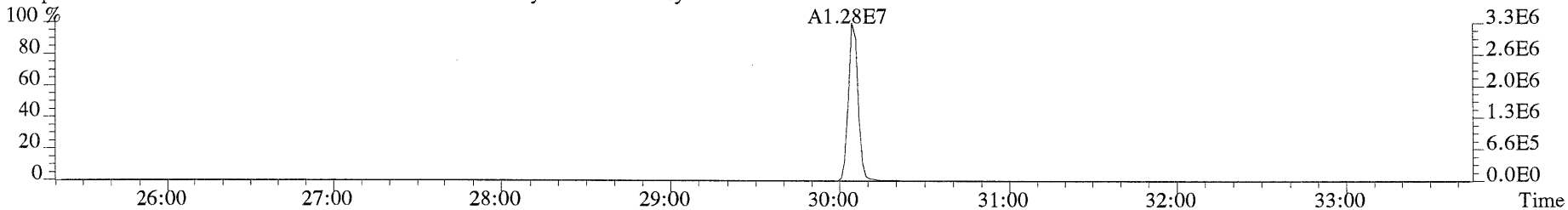
File:25JUL19Z #1-401 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



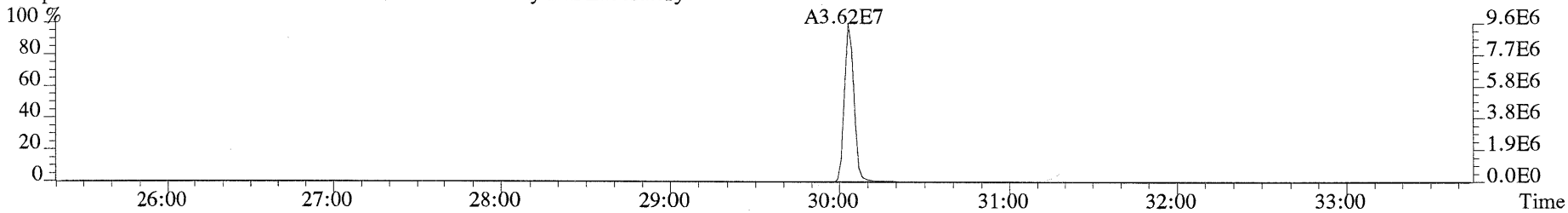
File:25JUL19Z #1-401 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



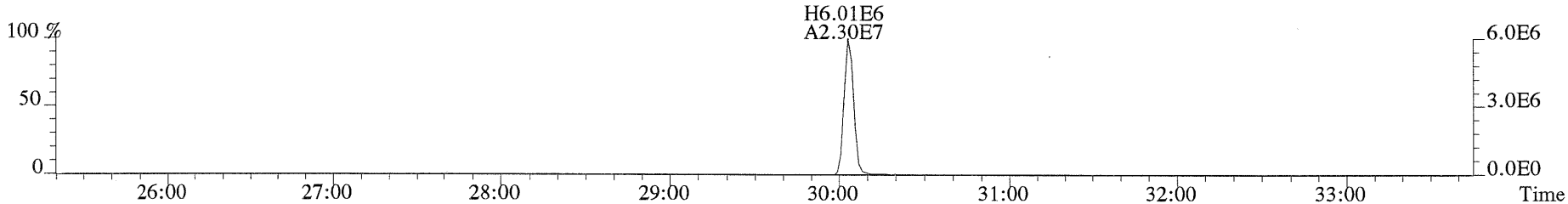
File:25JUL19Z #1-401 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



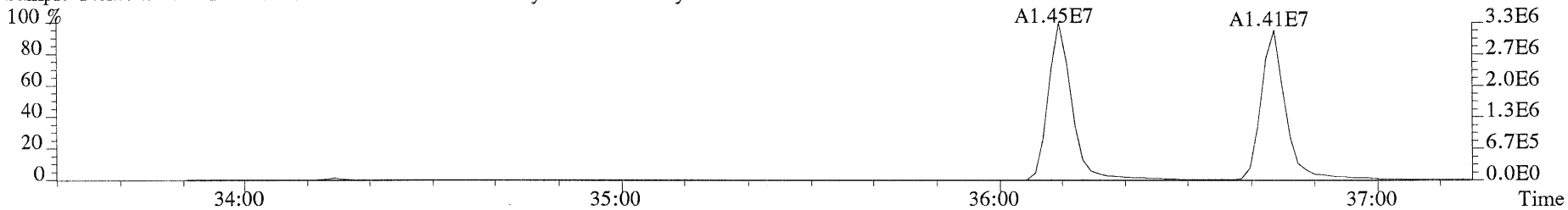
File:25JUL19Z #1-401 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



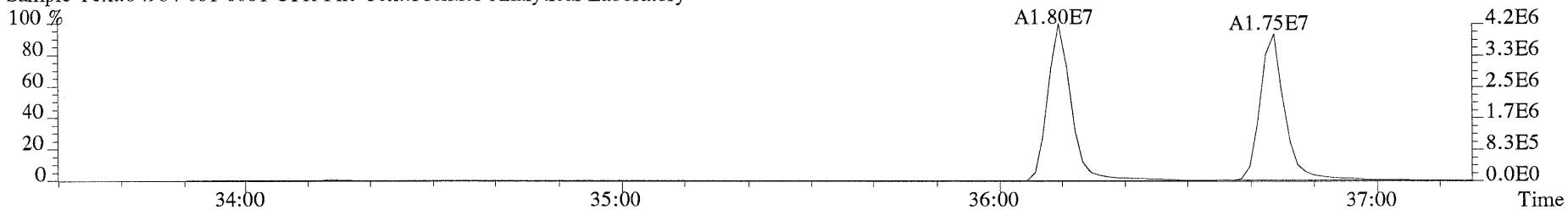
File:25JUL19Z #1-401 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



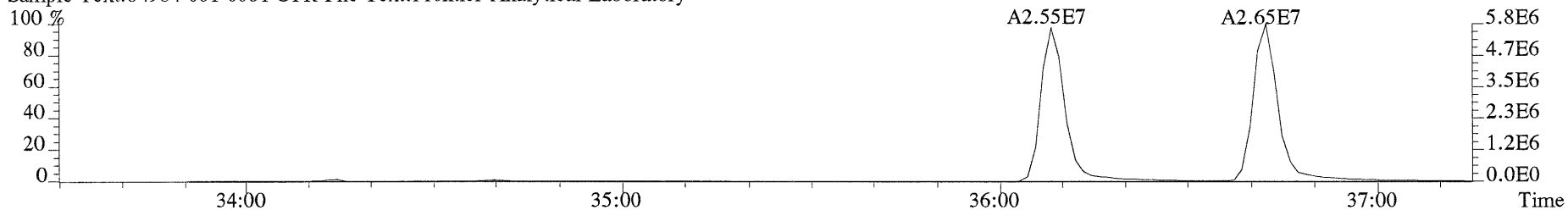
File:25JUL19Z #1-181 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



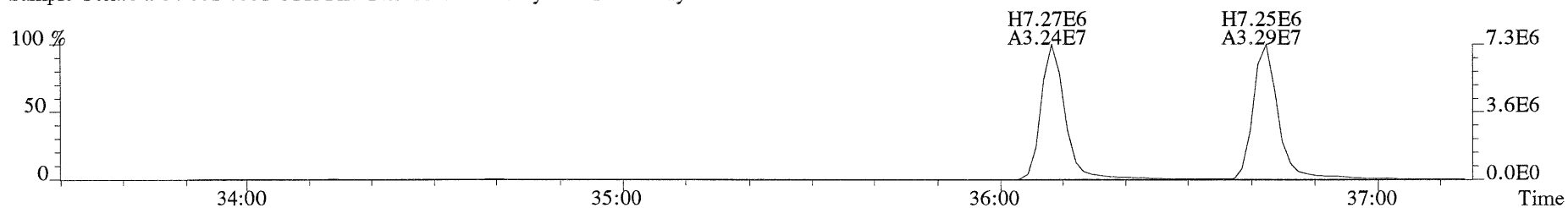
File:25JUL19Z #1-181 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



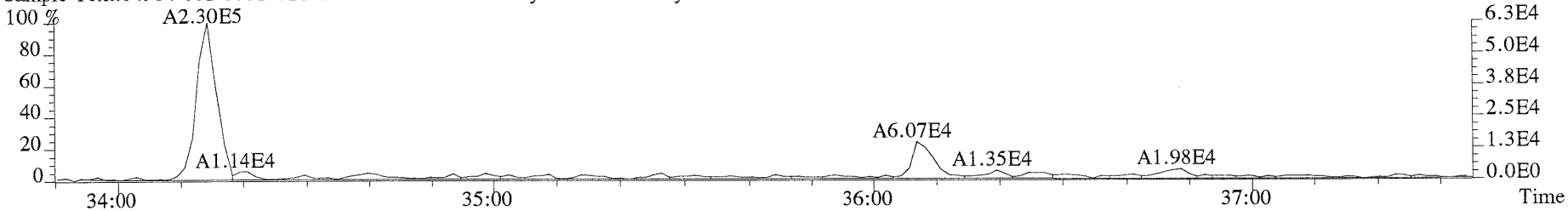
File:25JUL19Z #1-181 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



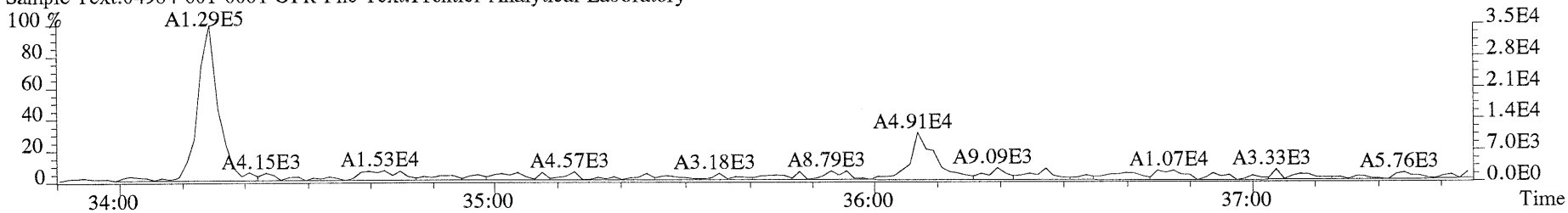
File:25JUL19Z #1-181 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



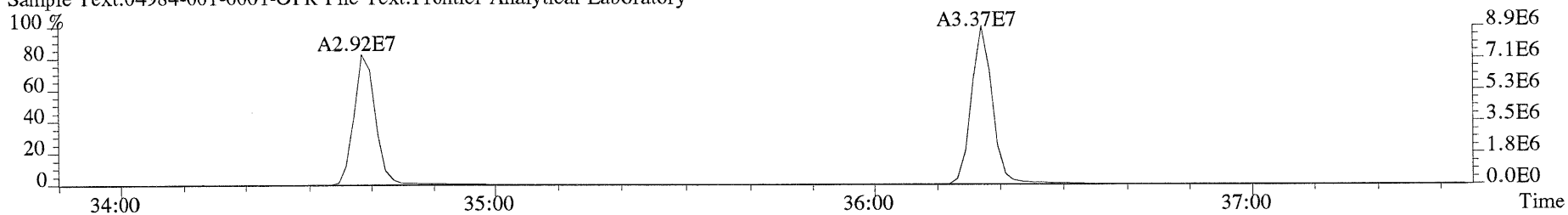
File:25JUL19Z #1-181 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



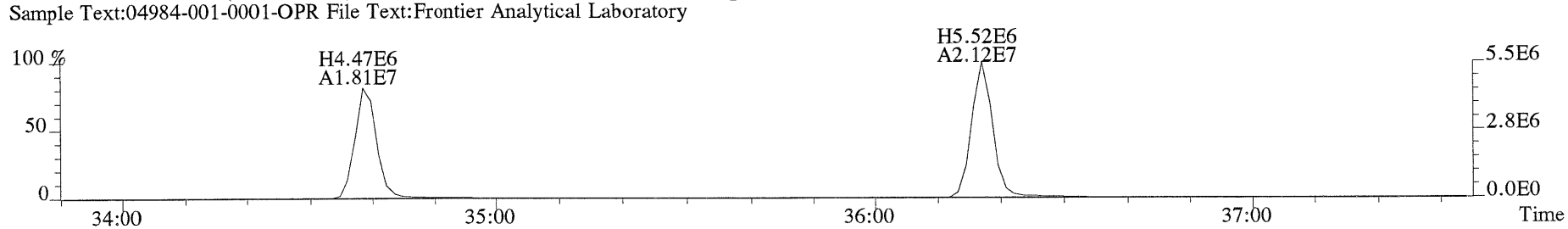
File:25JUL19Z #1-181 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



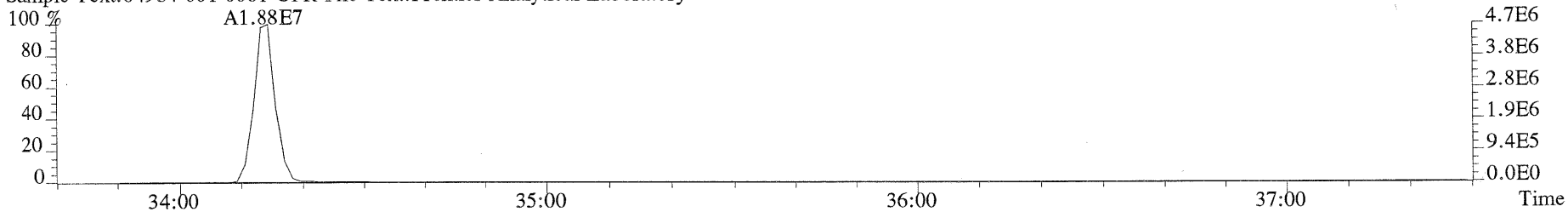
File:25JUL19Z #1-181 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



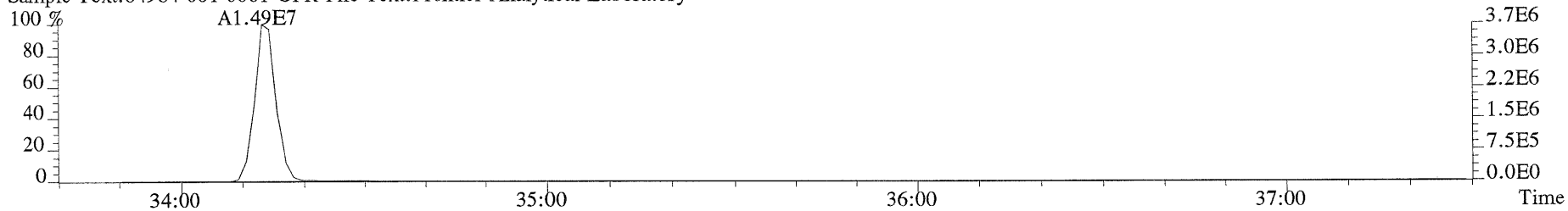
File:25JUL19Z #1-181 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



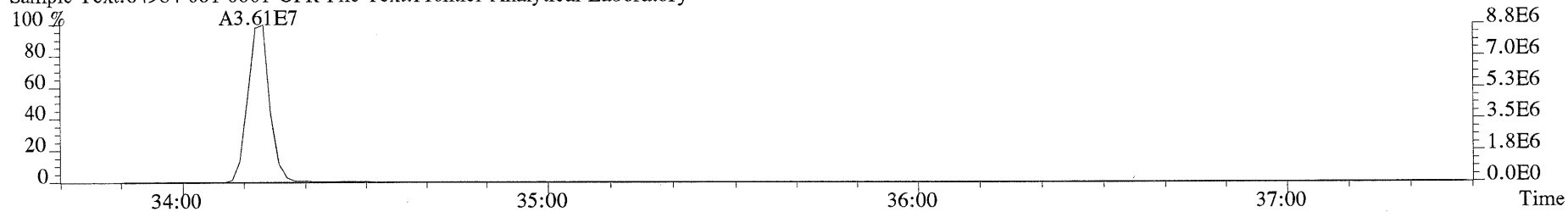
File:25JUL19Z #1-181 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



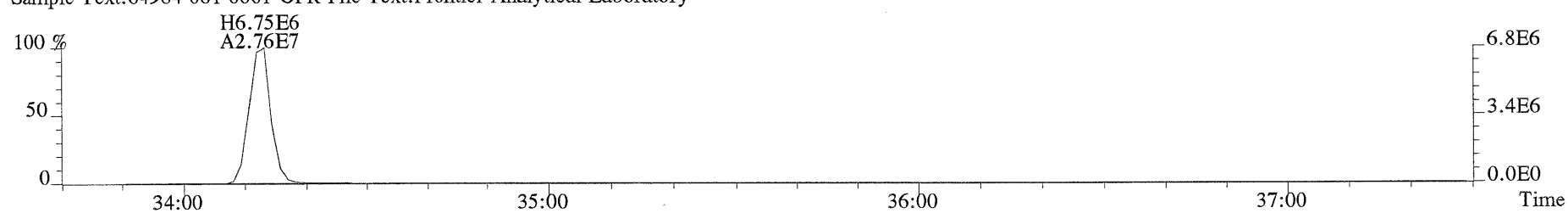
File:25JUL19Z #1-181 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



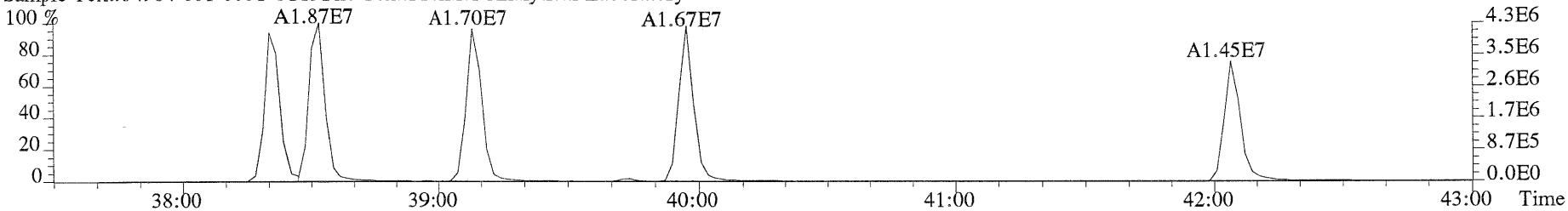
File:25JUL19Z #1-181 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



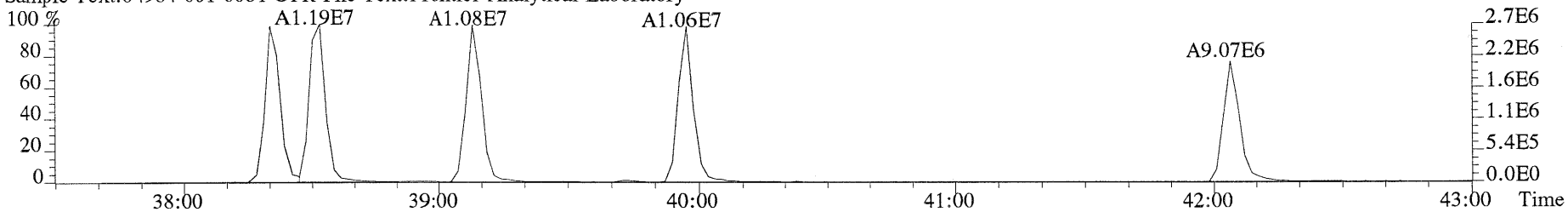
File:25JUL19Z #1-181 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



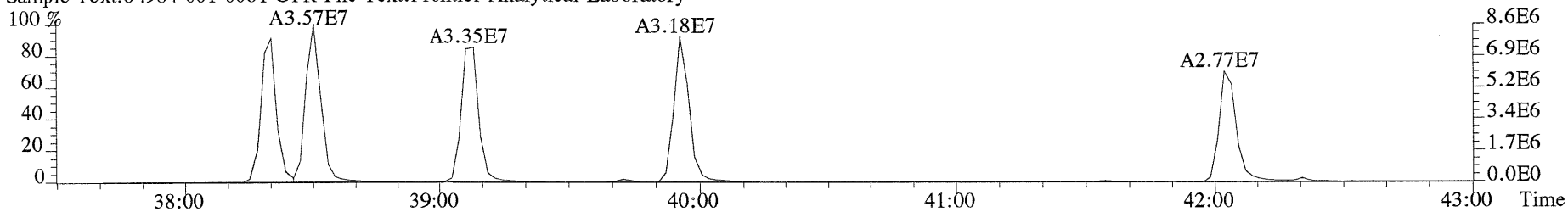
File:25JUL19Z #1-405 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



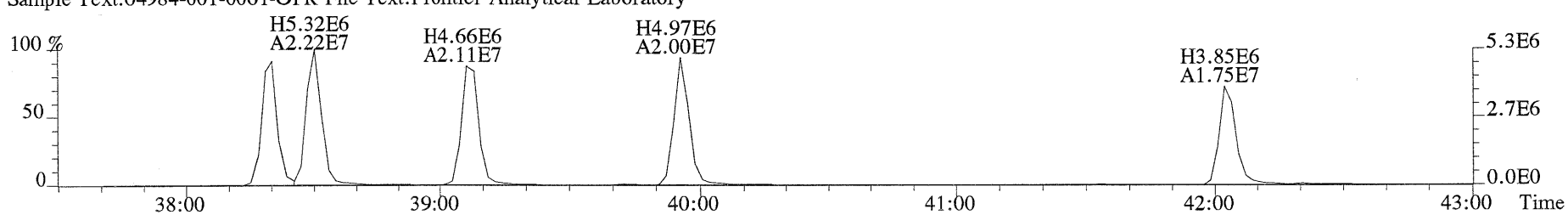
File:25JUL19Z #1-405 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



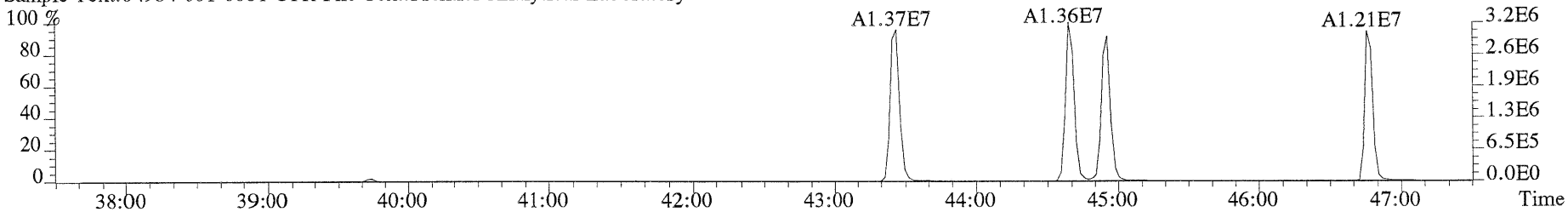
File:25JUL19Z #1-405 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



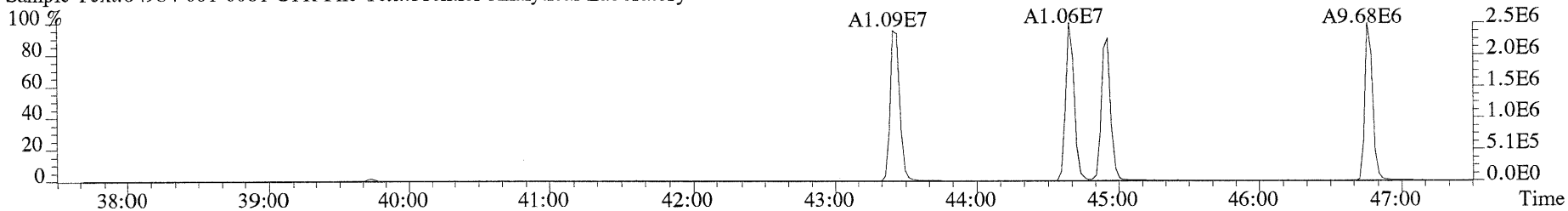
File:25JUL19Z #1-405 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



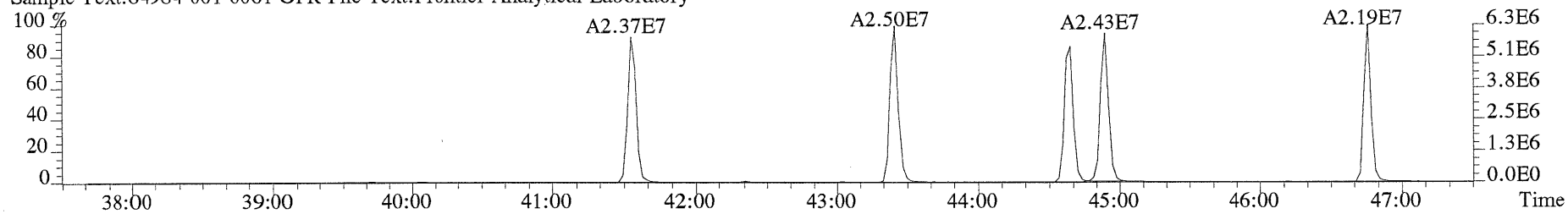
File:25JUL19Z #1-405 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



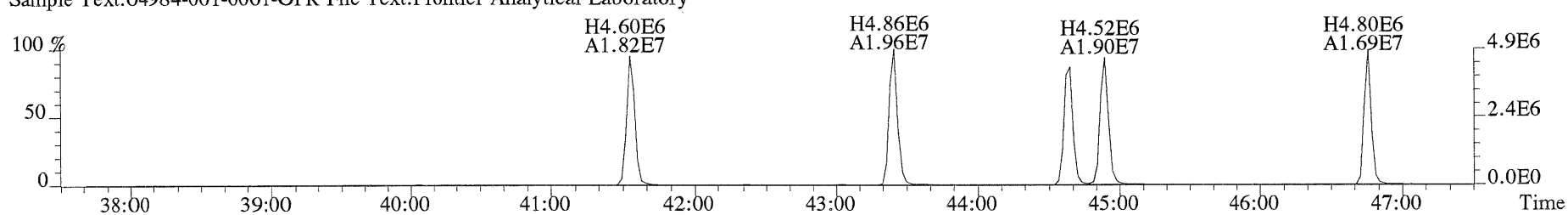
File:25JUL19Z #1-405 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



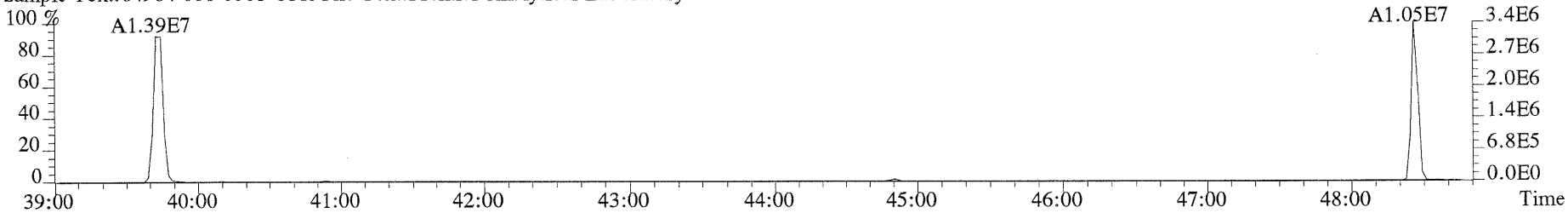
File:25JUL19Z #1-405 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



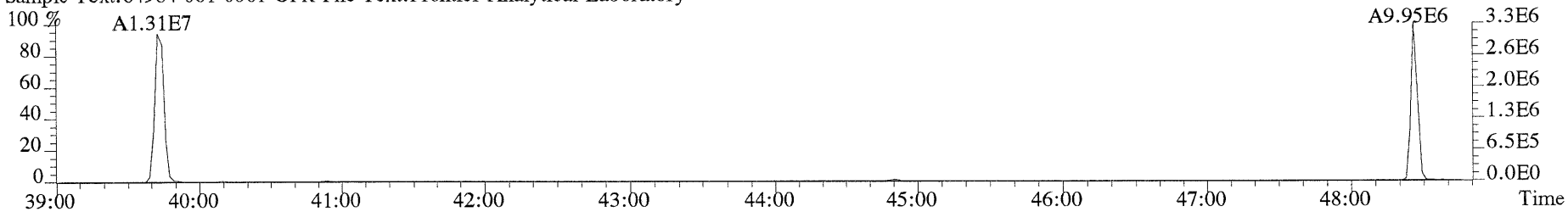
File:25JUL19Z #1-405 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



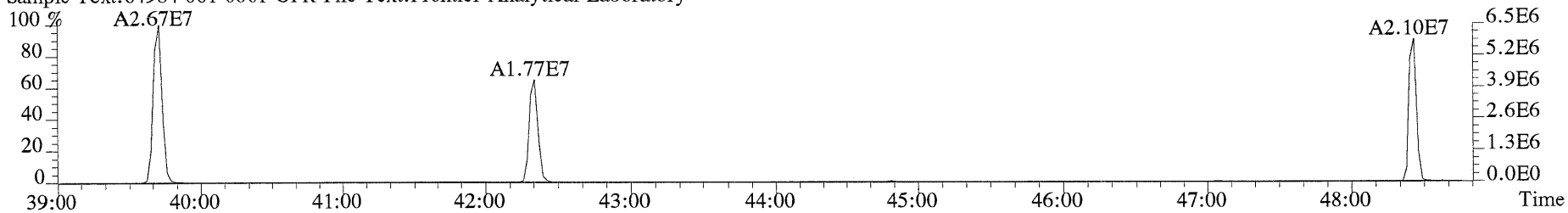
File:25JUL19Z #1-405 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



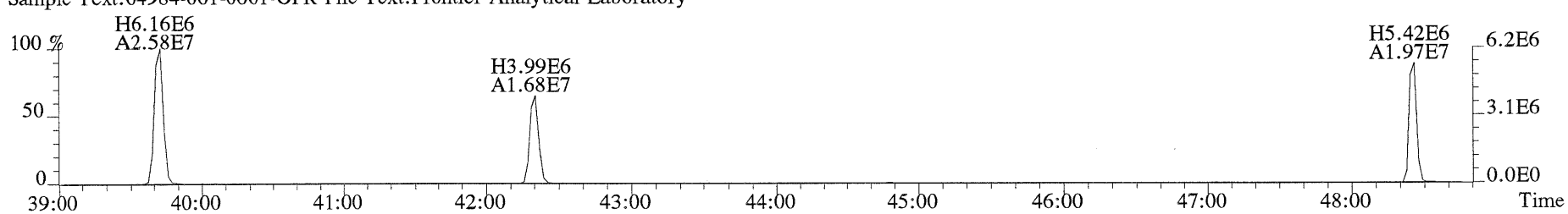
File:25JUL19Z #1-405 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



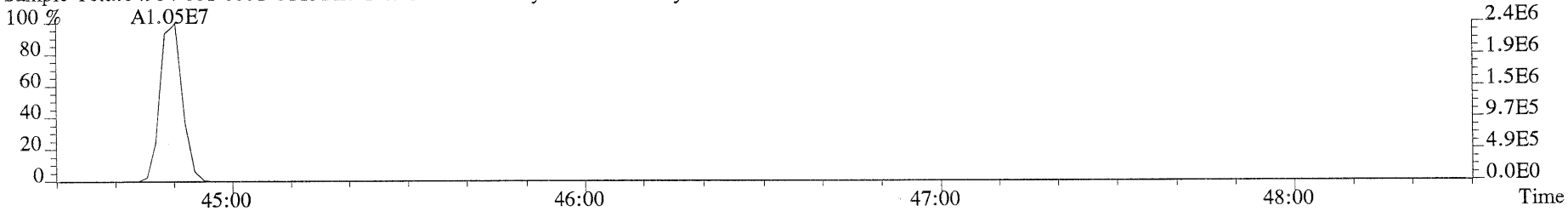
File:25JUL19Z #1-405 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



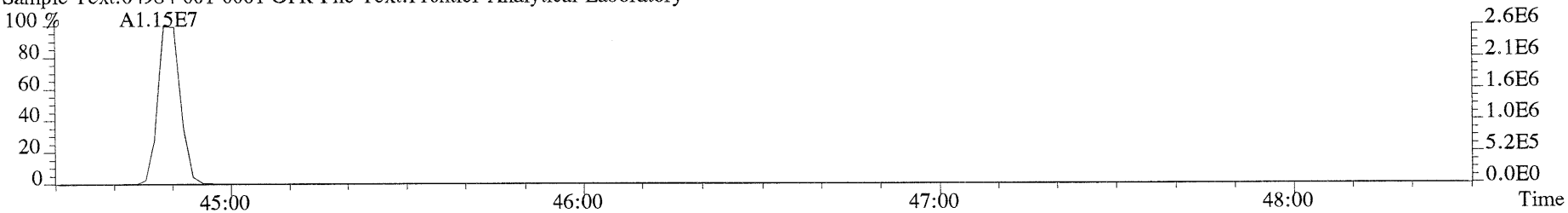
File:25JUL19Z #1-405 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



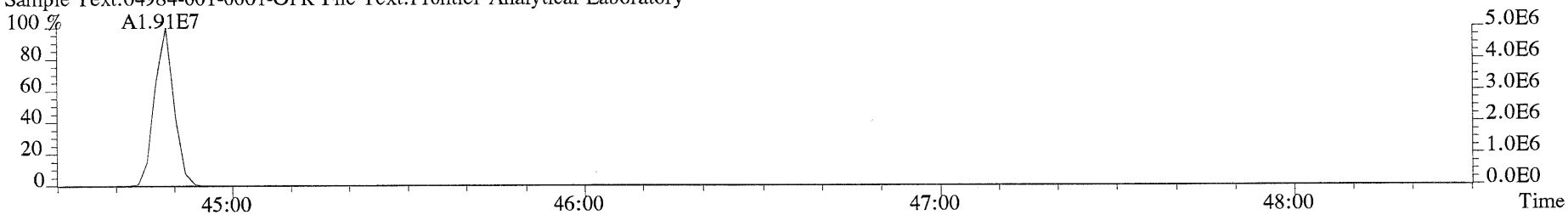
File:25JUL19Z #1-405 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



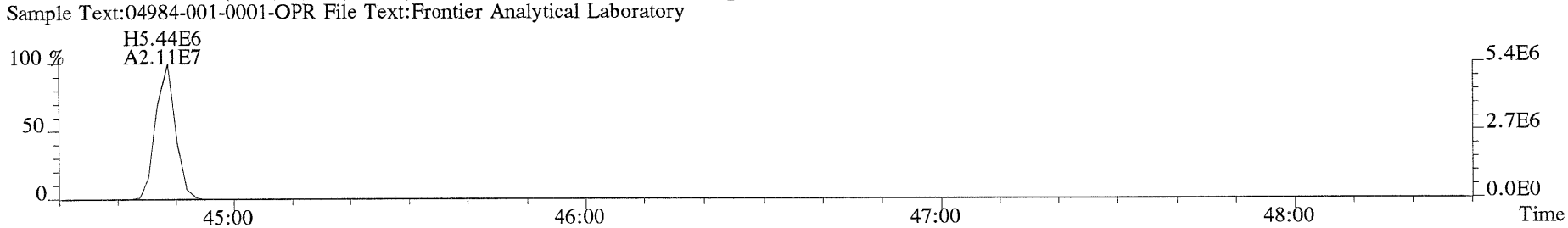
File:25JUL19Z #1-405 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



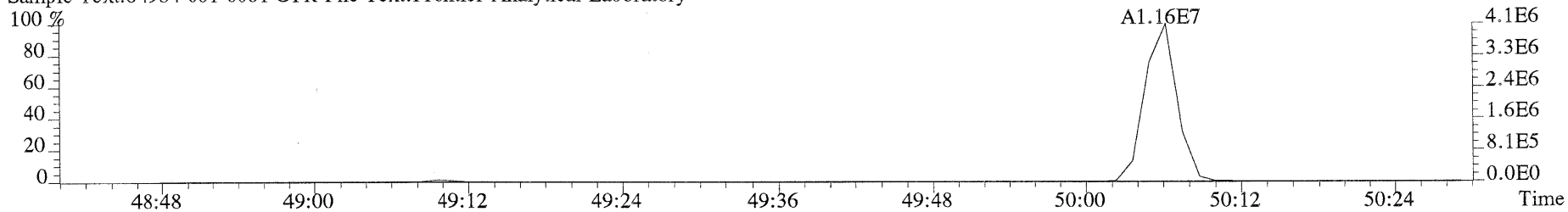
File:25JUL19Z #1-405 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



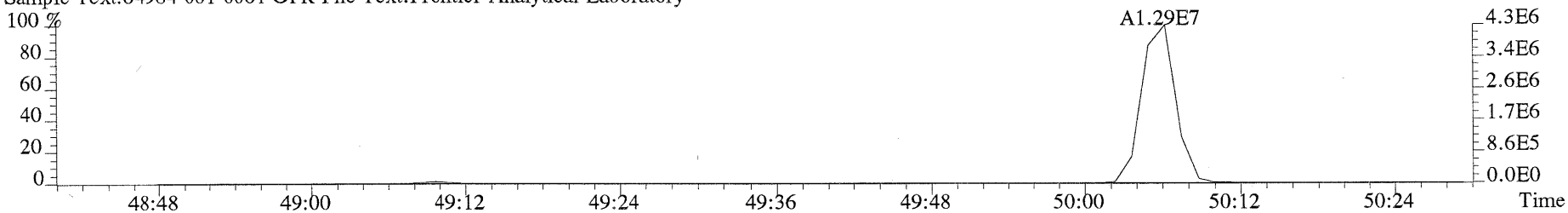
File:25JUL19Z #1-405 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



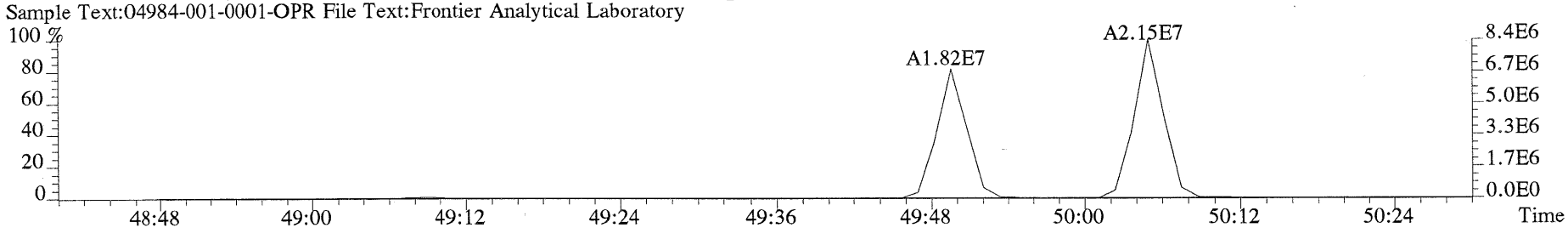
File:25JUL19Z #1-315 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



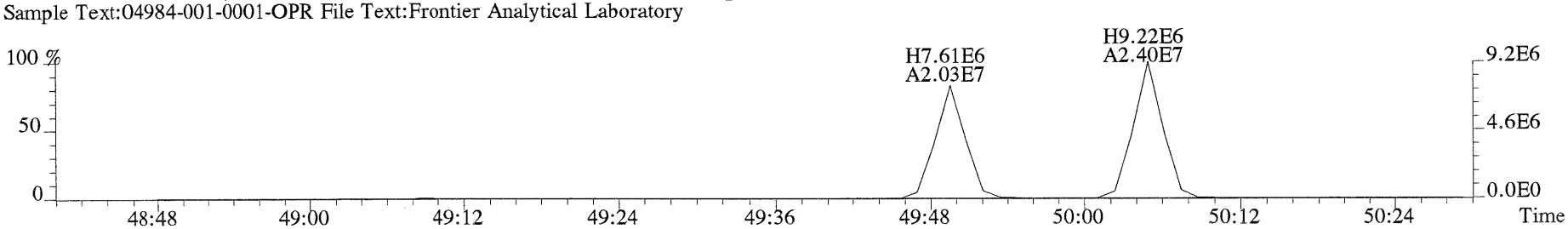
File:25JUL19Z #1-315 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



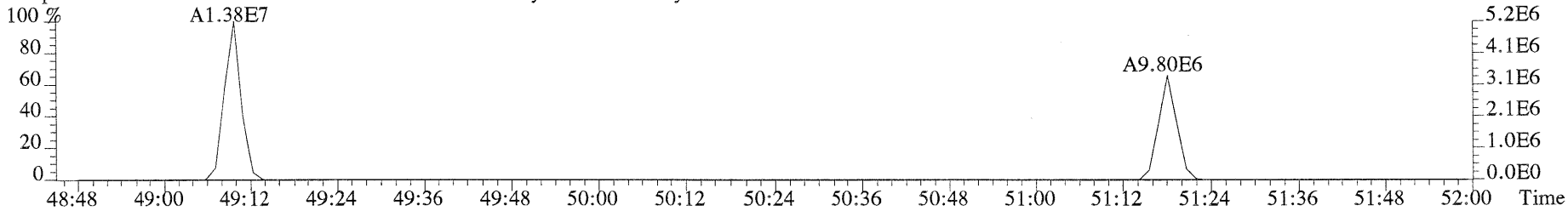
File:25JUL19Z #1-315 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 13:07:37 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:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 13:07:37 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:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 13:07:37 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
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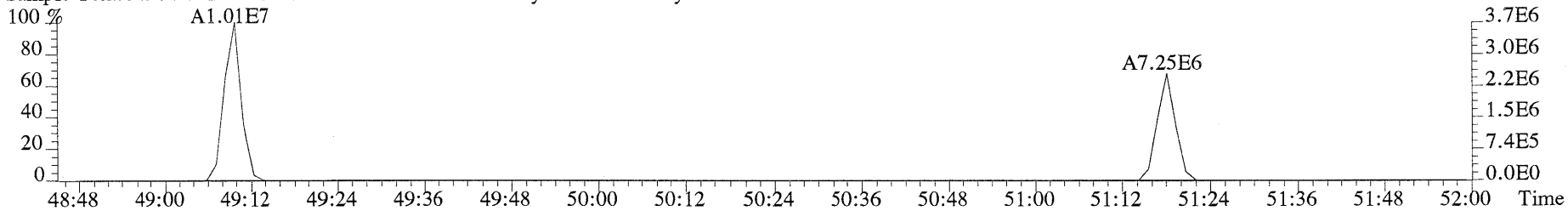

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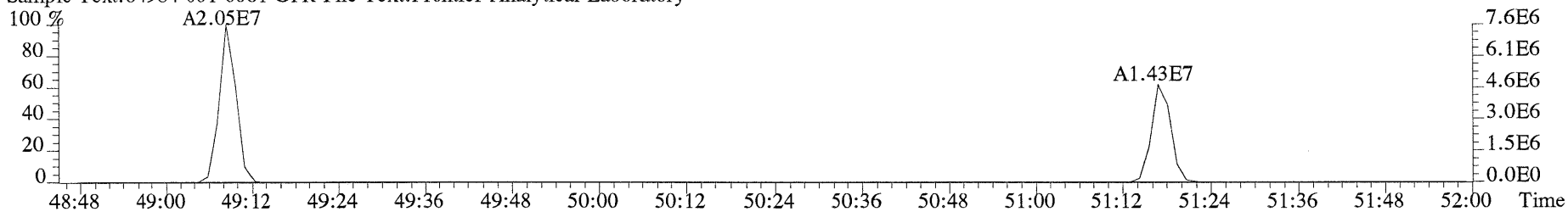
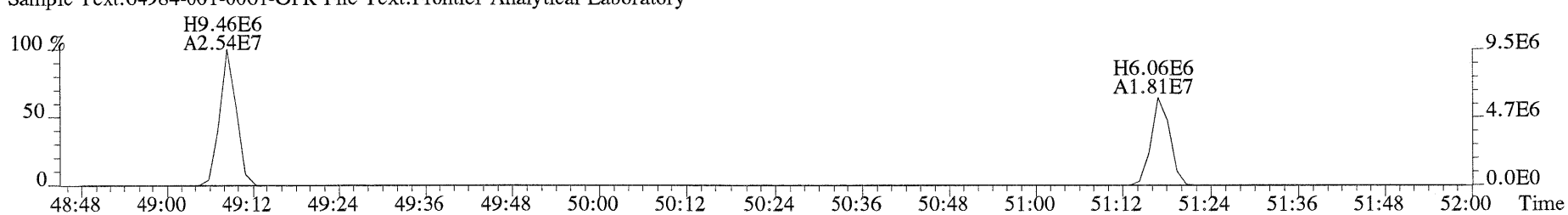
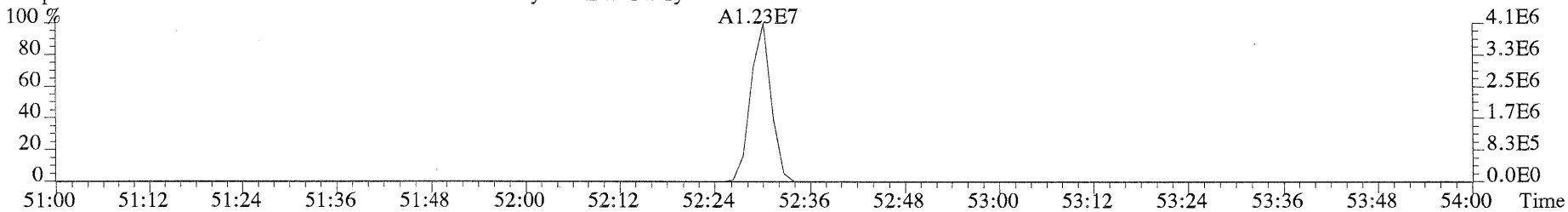
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



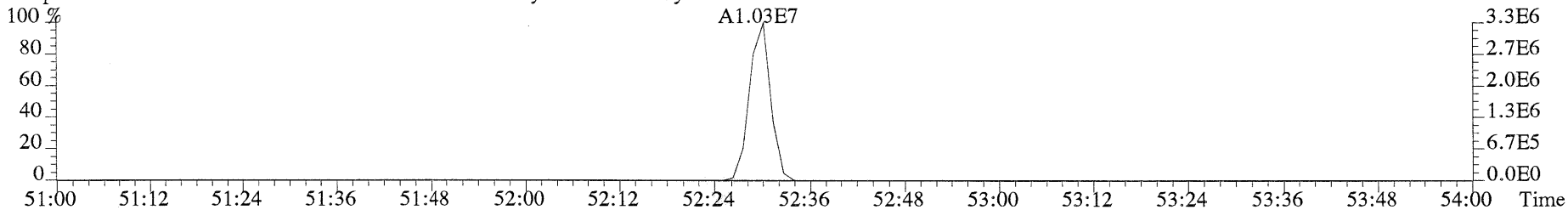
File:25JUL19Z #1-315 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



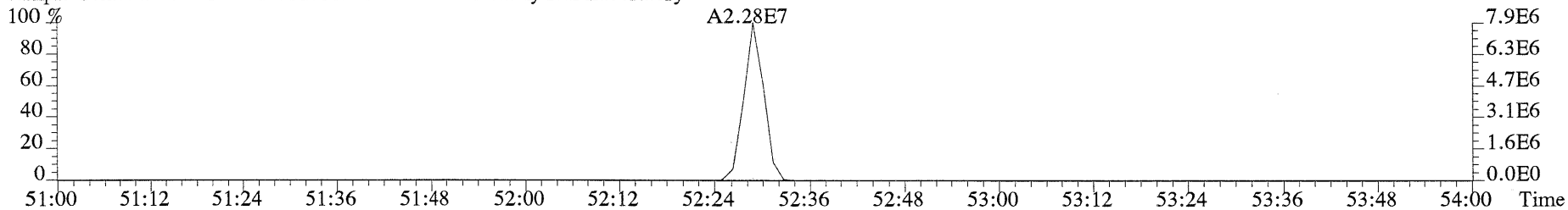
File:25JUL19Z #1-315 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



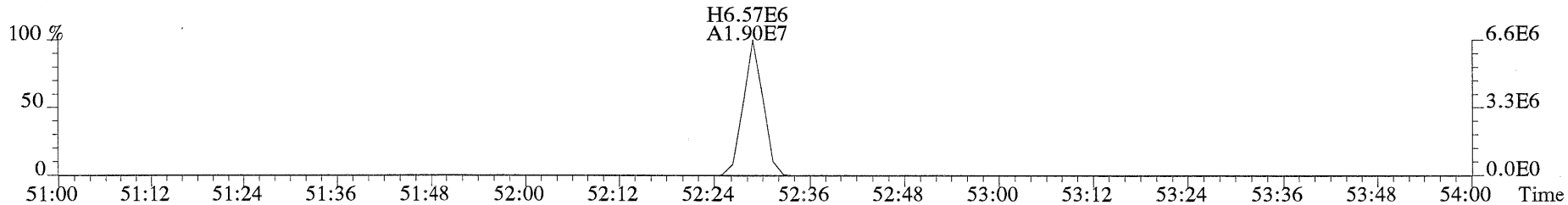
File:25JUL19Z #1-315 Acq:25-JUL-2019 13:07:37 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 13:07:37 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:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 13:07:37 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:04984-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 12532-001-0001-SA Filename: 24JUL19Z Sam:5 Acquired: 24-JUL-19 14:56:56 ICal: DAILYFAL4-7-24-19
Client ID: LDW-Y2-SU-ENR-CA-CORE ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 5.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	3.13e+06	3.07 y	14:35	1.19	29.8		-	-	*	
13C-PCB-1	1.77e+08	3.17 y	14:34	0.82	1870					93.4
PCB-2	8.22e+05	3.08 y	16:47	1.22	7.34		-	-	*	
PCB-3	2.92e+06	3.05 y	16:60	1.21	25.2		-	-	*	
13C-PCB-3	1.91e+08	3.18 y	16:59	0.85	1950					97.4
PCB-4	1.78e+07	1.42 y	18:14	1.14	235		-	-	*	
PCB-10	2.10e+06	1.44 y	18:17	1.32	17.1		-	-	*	
13C-PCB-4	1.33e+08	1.58 y	18:12	0.63	1850					92.4
PCB-9	6.32e+06	1.39 y	19:55	1.39	49.1		-	-	*	
PCB-7	5.49e+06	1.45 y	19:56	1.42	41.7		-	-	*	
PCB-6	4.98e+07	1.44 y	20:32	1.39	387		-	-	*	
PCB-8	1.22e+08	1.46 y	20:54	1.41	937		-	-	*	
PCB-5	*	* n	NotFnd	1.37	*		2240	8900	0.807	
PCB-14	*	* n	NotFnd	1.31	*		2240	8900	0.849	
PCB-11	4.10e+06	1.42 y	23:05	1.23	36.0		-	-	*	
PCB-13	7.25e+06	1.59 y	23:25	1.26	62.1		-	-	*	
PCB-12	7.79e+06	1.47 y	23:26	1.26	66.9		-	-	*	
PCB-15	6.59e+07	1.41 y	23:46	1.16	479		-	-	*	
13C-PCB-15	2.37e+08	1.58 y	23:44	0.96	2130					107
PCB-19	1.03e+07	1.08 y	22:07	1.16	172		-	-	*	
PCB-30	1.97e+05	1.16 y	22:58	1.82	2.11	J	-	-	*	
PCB-18	1.36e+08	1.07 y	23:40	1.20	2210		-	-	*	
PCB-17	6.97e+07	1.06 y	23:49	1.30	1050		-	-	*	
PCB-27	7.38e+06	0.98 y	24:20	1.77	81.5		-	-	*	
PCB-24	8.10e+06	1.13 y	24:21	1.77	89.5		-	-	*	
PCB-16	5.17e+07	0.93 y	24:50	1.48	679		-	-	*	
PCB-32	5.40e+07	1.01 y	24:51	1.48	710		-	-	*	
13C-PCB-19	1.02e+08	1.01 y	22:05	0.45	1980					99.0
13C-PCB-9	2.31e+08	1.56 y	19:53	-	27.1					
PCB-34	2.97e+06	1.01 y	25:36	1.16	29.6		-	-	*	
PCB-23	3.71e+05	1.15 y	25:40	1.33	3.23	J	-	-	*	
PCB-29	1.78e+06	1.02 y	25:55	1.33	15.5		-	-	*	
PCB-26	8.26e+07	1.00 y	26:07	1.27	754		-	-	*	
PCB-25	4.99e+07	1.01 y	26:17	1.22	473		-	-	*	
PCB-31	2.76e+08	1.00 y	26:37	1.20	2660		-	-	*	
PCB-28	3.10e+08	1.01 y	26:42	1.55	2320		-	-	*	
PCB-20	1.60e+08	1.01 y	27:19	1.23	1510		-	-	*	Co-elute PCB 21/33
PCB-21	1.60e+08	1.01 y	27:19	1.23	1510		-	-	*	Co-elute PCB 20/33
PCB-33	1.60e+08	1.01 y	27:19	1.23	1510		-	-	*	Co-elute PCB 20/21
PCB-22	9.11e+07	1.03 y	27:43	1.37	770		-	-	*	
PCB-36	*	* n	NotFnd	1.27	*		1830	2310	0.532	
PCB-39	5.09e+05	0.96 y	28:45	1.24	4.77		-	-	*	
PCB-38	1.81e+06	0.95 y	29:29	1.27	16.5		-	-	*	
PCB-35	3.51e+06	1.03 y	30:02	1.12	36.5		-	-	*	
PCB-37	7.04e+07	1.04 y	30:30	1.17	700		-	-	*	
13C-PCB-37	1.73e+08	1.06 y	30:28	1.46	2150					108

PCB-54	5.57e+05	0.79	y	25:39	1.26	7.48	-	-	*	
PCB-50	8.10e+05	0.80	y	26:45	0.99	13.9	-	-	*	
PCB-53	2.69e+07	0.80	y	27:21	0.98	464	-	-	*	
PCB-51	8.65e+06	0.80	y	27:40	1.01	145	-	-	*	
PCB-45	2.31e+07	0.81	y	28:04	0.83	470	-	-	*	
PCB-46	9.43e+06	0.82	y	28:32	0.81	197	-	-	*	
PCB-52	2.42e+08	0.81	y	29:00	1.05	3900	-	-	*	Co-elute PCB 69
PCB-69	2.42e+08	0.81	y	29:00	1.05	3900	-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.20	*	2100	2200	0.574	
PCB-43	1.77e+08	0.80	y	29:16	0.91	3290	-	-	*	Co-elute PCB 49
PCB-49	1.77e+08	0.80	y	29:16	0.91	3290	-	-	*	Co-elute PCB 43
PCB-47	6.48e+07	0.78	y	29:29	0.92	1200	-	-	*	
PCB-48	4.21e+07	0.80	y	29:37	1.19	600	-	-	*	Co-elute PCB 75
PCB-75	4.21e+07	0.80	y	29:37	1.19	600	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.20	*	2100	2200	0.574	
PCB-62	*	*	n	NotFnd	1.16	*	2100	2200	0.596	
PCB-44	1.39e+08	0.80	y	30:18	0.78	3040	-	-	*	
PCB-42	7.01e+07	0.80	y	30:32	1.01	1180	-	-	*	Co-elute PCB 59
PCB-59	7.01e+07	0.80	y	30:32	1.01	1180	-	-	*	Co-elute PCB 42
PCB-72	1.54e+08	0.80	y	31:10	1.14	2280	-	-	*	Co-elute PCB 41/71/64
PCB-41	1.54e+08	0.80	y	31:10	1.14	2280	-	-	*	Co-elute PCB 72/71/64
PCB-71	1.54e+08	0.80	y	31:10	1.14	2280	-	-	*	Co-elute PCB 72/41/64
PCB-64	1.54e+08	0.80	y	31:10	1.14	2280	-	-	*	Co-elute PCB 72/41/71
PCB-68	2.99e+06	0.80	y	31:22	1.33	38.3	-	-	*	
PCB-40	1.90e+07	0.79	y	31:32	0.71	456	-	-	*	
PCB-57	2.09e+06	0.81	y	31:48	1.21	29.2	-	-	*	
PCB-67	9.59e+06	0.81	y	32:05	1.19	137	-	-	*	
PCB-58	1.40e+06	0.81	y	32:11	1.22	19.5	-	-	*	
PCB-63	1.01e+07	0.80	y	32:20	1.22	141	-	-	*	
PCB-74	1.07e+08	0.79	y	32:36	1.22	1500	-	-	*	
PCB-61	2.21e+08	0.79	y	32:48	1.10	3400	-	-	*	Co-elute PCB 70
PCB-70	2.21e+08	0.79	y	32:48	1.10	3400	-	-	*	Co-elute PCB 61
PCB-76	2.24e+08	0.80	y	33:00	1.25	3050	-	-	*	Co-elute PCB 66
PCB-66	2.24e+08	0.80	y	33:00	1.25	3050	-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.40	*	2100	2200	0.494	
PCB-55	4.04e+06	0.77	y	33:28	1.22	56.1	-	-	*	
13C-PCB-54	1.18e+08	0.81	y	25:38	1.21	1770				88.3
PCB-104	*	*	n	NotFnd	1.12	*	772	820	0.356	
PCB-96	1.69e+06	1.57	y	31:25	1.06	29.7	-	-	*	
PCB-103	3.71e+06	1.55	y	31:48	0.86	79.9	-	-	*	
PCB-100	1.24e+06	1.52	y	32:08	0.86	26.9	-	-	*	
PCB-94	9.70e+05	1.52	y	32:34	0.72	25.0	-	-	*	
PCB-98	*	*	n	NotFnd	0.78	*	772	820	0.509	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.78	*	772	820	0.509	Co-elute PCB 98
PCB-95	1.41e+08	1.58	y	33:04	0.73	3570	-	-	*	
PCB-93	*	*	n	NotFnd	0.72	*	772	820	0.550	
PCB-88	2.48e+07	1.59	y	33:27	0.84	548	-	-	*	Co-elute PCB 91
PCB-91	2.48e+07	1.59	y	33:27	0.84	548	-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.95	*	772	820	0.420	
13C-PCB-104	1.08e+08	1.59	y	30:07	1.00	1950				97.5
13C-PCB-28	1.75e+08	1.06	y	26:41	1.75	1820				91.0
13C-PCB-52	1.10e+08	0.82	y	28:57	-	27.5				

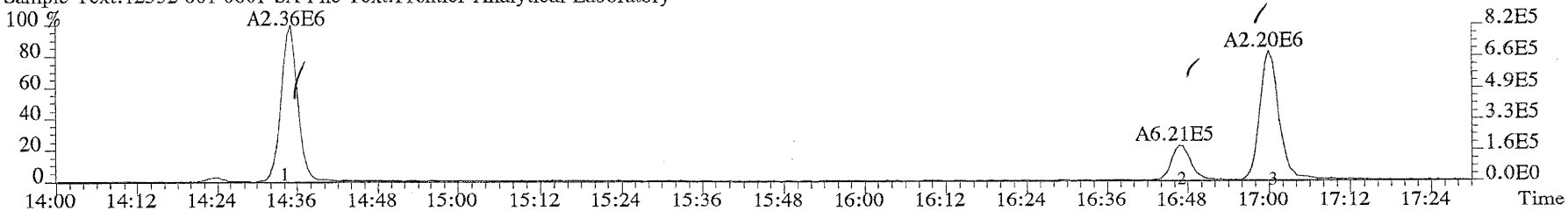
PCB-56	1.16e+08	0.78	y	33:58	1.14	1320		-	-	*	Co-elute PCB 60
PCB-60	1.16e+08	0.78	y	33:58	1.14	1320		-	-	*	Co-elute PCB 56
PCB-79	4.24e+06	0.73	y	34:59	1.24	44.2		-	-	*	
PCB-78	1.18e+06	0.75	y	35:34	1.20	12.7		-	-	*	
PCB-81	4.28e+06	0.77	y	36:10	1.21	46.8		-	-	*	
13C-PCB-81	1.51e+08	0.80	y	36:07	1.53	2270					113
PCB-77	2.03e+07	0.79	y	36:42	1.04	246		-	-	*	
13C-PCB-77	1.58e+08	0.79	y	36:41	1.54	2360					118
PCB-155	*	*	n	NotFnd	1.05	*		864	824	0.293	
PCB-150	5.54e+05	1.22	y	35:25	0.95	9.89		-	-	*	
PCB-152	2.18e+05	1.22	y	35:52	0.93	4.01		-	-	*	
PCB-145	8.88e+04	1.25	y	36:17	0.93	1.62	J	-	-	*	
PCB-136	2.88e+07	1.24	y	36:36	0.84	587		-	-	*	
PCB-148	*	*	n	NotFnd	0.75	*		864	824	0.413	
PCB-154	3.65e+06	1.27	y	37:09	0.77	80.2		-	-	*	
13C-PCB-155	1.17e+08	1.26	y	34:12	1.35	1990					99.5
13C-PCB-111	9.84e+07	1.58	y	36:16	1.21	1870					93.4
13C-PCB-101	8.71e+07	1.61	y	34:39	-	27.2					
PCB-84	7.88e+07	1.60	y	34:18	0.85	1440		-	-	*	Co-elute PCB 92
PCB-92	7.88e+07	1.60	y	34:18	0.85	1440		-	-	*	Co-elute PCB 84
PCB-89	2.44e+06	1.54	y	34:28	0.79	47.7		-	-	*	
PCB-90	1.97e+08	1.60	y	34:40	0.92	3340		-	-	*	Co-elute PCB 101
PCB-101	1.97e+08	1.60	y	34:40	0.92	3340		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*		3030	1490	0.732	
PCB-99	1.03e+08	1.58	y	34:59	0.96	1670		-	-	*	
PCB-119	9.89e+06	1.61	y	35:24	1.17	131		-	-	*	
PCB-83	1.00e+07	1.62	y	35:34	0.92	169		-	-	*	Co-elute PCB 112
PCB-112	1.00e+07	1.62	y	35:34	0.92	169		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.09	*		3030	1490	0.735	
PCB-97	5.20e+07	1.59	y	35:53	0.75	1070		-	-	*	
PCB-86	*	*	n	NotFnd	0.83	*		3030	1490	0.963	
PCB-125	6.01e+07	1.59	y	36:10	1.00	930		-	-	*	Co-elute PCB 87/117
PCB-87	6.01e+07	1.59	y	36:10	1.00	930		-	-	*	Co-elute PCB 125/117
PCB-117	6.01e+07	1.59	y	36:10	1.00	930		-	-	*	Co-elute PCB 125/87
PCB-111	3.52e+06	1.52	y	36:18	1.12	48.5		-	-	*	Co-elute PCB 115
PCB-115	3.52e+06	1.52	y	36:18	1.12	48.5		-	-	*	Co-elute PCB 111
PCB-85	2.73e+07	1.58	y	36:25	0.98	431		-	-	*	Co-elute PCB 116
PCB-116	2.73e+07	1.58	y	36:25	0.98	431		-	-	*	Co-elute PCB 85
PCB-120	1.81e+06	1.53	y	36:37	1.21	23.2		-	-	*	
PCB-110	2.55e+08	1.60	y	36:47	1.12	3530		-	-	*	
PCB-82	1.47e+07	1.56	y	37:23	0.65	350		-	-	*	
PCB-124	7.43e+06	1.49	y	38:02	1.16	98.9		-	-	*	
PCB-108	1.93e+07	1.52	y	38:12	1.12	267		-	-	*	Co-elute PCB 107
PCB-107	1.93e+07	1.52	y	38:12	1.12	267		-	-	*	Co-elute PCB 108
PCB-123	2.95e+06	1.38	y	38:20	0.97	49.3		-	-	*	
13C-PCB-123	1.24e+08	1.57	y	38:19	1.48	1500					74.9
PCB-118	2.26e+08	1.51	y	38:30	1.06	3130		-	-	*	Co-elute PCB 106
PCB-106	2.26e+08	1.51	y	38:30	1.06	3130		-	-	*	Co-elute PCB 118
13C-PCB-118	1.37e+08	1.60	y	38:28	1.54	1580					79.2
PCB-114	4.84e+06	1.49	y	39:08	1.07	70.7		-	-	*	
13C-PCB-114	1.28e+08	1.60	y	39:06	1.46	1570					78.4
PCB-122	2.52e+06	1.52	y	39:15	1.09	35.7		-	-	*	
PCB-105	6.95e+07	1.52	y	39:56	1.14	951		-	-	*	
13C-PCB-105	1.28e+08	1.62	y	39:54	1.40	1640					82.0

PCB-127	*	*	n	NotFnd	1.00	*		1700	1820	0.624	
PCB-126	9.73e+05	1.49	y	42:02	1.10	13.8		-	-	*	
13C-PCB-126	1.28e+08	1.59	y	42:02	1.32	1730					86.6
PCB-151	3.89e+07	1.28	y	37:46	1.10	650		-	-	*	
PCB-135	2.26e+07	1.29	y	37:59	1.01	409		-	-	*	
PCB-144	7.17e+06	1.27	y	38:04	1.25	105		-	-	*	
PCB-147	3.58e+06	1.28	y	38:12	1.15	57.2		-	-	*	
PCB-139	1.58e+08	1.28	y	38:27	1.18	2460		-	-	*	Co-elute PCB 149
PCB-149	1.58e+08	1.28	y	38:27	1.18	2460		-	-	*	Co-elute PCB 139
PCB-140	2.33e+06	1.28	y	38:37	1.16	36.9		-	-	*	
PCB-143	9.42e+06	1.28	y	39:03	0.96	181		-	-	*	Co-elute PCB 134
PCB-134	9.42e+06	1.28	y	39:03	0.96	181		-	-	*	Co-elute PCB 143
PCB-131	5.40e+06	1.30	y	39:18	0.94	106		-	-	*	Co-elute PCB 133
PCB-133	5.40e+06	1.30	y	39:18	0.94	106		-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.99	*		1520	1170	0.537	
PCB-165	3.34e+07	1.24	y	39:41	1.26	488		-	-	*	Co-elute PCB 146
PCB-146	3.34e+07	1.24	y	39:41	1.26	488		-	-	*	Co-elute PCB 165
PCB-161	5.72e+07	1.25	y	39:57	1.15	914		-	-	*	Co-elute PCB 132
PCB-132	5.72e+07	1.25	y	39:57	1.15	914		-	-	*	Co-elute PCB 161
PCB-153	1.90e+08	1.27	y	40:04	1.27	2740		-	-	*	
PCB-168	*	*	n	NotFnd	1.35	*		1520	1170	0.392	
PCB-141	2.65e+07	1.27	y	40:45	1.02	478		-	-	*	
PCB-137	7.02e+06	1.23	y	41:08	0.94	138		-	-	*	
PCB-130	1.08e+07	1.30	y	41:13	0.89	223		-	-	*	
PCB-138	2.03e+08	1.28	y	41:34	1.25	2990		-	-	*	Co-elute PCB 163/164
PCB-163	2.03e+08	1.28	y	41:34	1.25	2990		-	-	*	Co-elute PCB 138/164
PCB-164	2.03e+08	1.28	y	41:34	1.25	2990		-	-	*	Co-elute PCB 138/163
PCB-158	2.25e+07	1.27	y	41:48	1.33	311		-	-	*	Co-elute PCB 160
PCB-160	2.25e+07	1.27	y	41:48	1.33	311		-	-	*	Co-elute PCB 158
PCB-129	5.81e+06	1.23	y	42:02	0.85	125		-	-	*	
PCB-166	7.08e+05	1.10	y	42:29	1.28	10.2		-	-	*	
PCB-159	2.36e+06	1.30	y	42:49	1.37	31.8		-	-	*	
PCB-128	2.80e+07	1.27	y	43:02	1.08	479		-	-	*	Co-elute PCB 162
PCB-162	2.80e+07	1.27	y	43:02	1.08	479		-	-	*	Co-elute PCB 128
PCB-167	8.13e+06	1.29	y	43:25	1.18	129		-	-	*	
13C-PCB-167	1.07e+08	1.28	y	43:23	1.13	1700					85.2
PCB-156	2.12e+07	1.27	y	44:39	1.24	322		-	-	*	
13C-PCB-156	1.06e+08	1.30	y	44:37	1.06	1780					89.0
PCB-157	4.75e+06	1.25	y	44:54	1.18	73.1		-	-	*	
13C-PCB-157	1.10e+08	1.30	y	44:52	1.07	1850					92.3
PCB-169	*	*	n	NotFnd	1.12	*		1520	1170	0.408	
13C-PCB-169	1.12e+08	1.28	y	46:44	1.00	2000					100

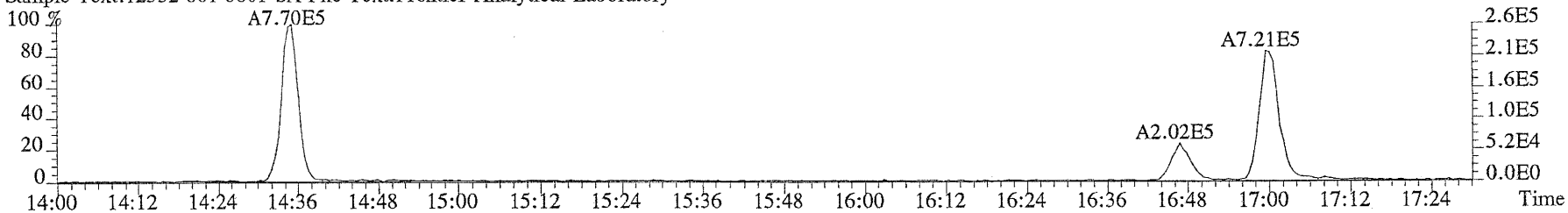
PCB-188	1.40e+05	1.13	y	39:42	1.03	2.69	J	-	-	*	
13C-PCB-188	1.01e+08	1.06	y	39:41	1.26	1430					71.7
PCB-184	4.70e+04	1.16	y	40:07	1.18	0.783	J	-	-	*	
PCB-179	2.21e+07	1.06	y	40:52	1.11	392		-	-	*	
PCB-176	6.99e+06	1.04	y	41:18	1.08	128		-	-	*	
PCB-186	*	*	n	NotFnd	1.08	*		1490	612	0.368	
PCB-178	7.18e+06	1.03	y	42:21	0.74	190		-	-	*	
PCB-175	1.43e+06	1.04	y	42:40	0.76	37.1		-	-	*	
PCB-187	4.57e+07	1.06	y	42:49	0.82	1090		-	-	*	Co-elute PCB 182
PCB-182	4.57e+07	1.06	y	42:49	0.82	1090		-	-	*	Co-elute PCB 187
PCB-183	2.16e+07	1.04	y	43:08	0.80	535		-	-	*	
PCB-185	3.54e+06	1.09	y	43:46	0.71	98.6		-	-	*	
PCB-174	3.42e+07	1.06	y	44:06	0.73	924		-	-	*	
PCB-181	*	*	n	NotFnd	0.66	*		1490	612	0.605	
PCB-177	1.99e+07	1.05	y	44:21	0.64	608		-	-	*	
PCB-171	9.30e+06	1.05	y	44:39	0.69	267		-	-	*	
PCB-173	5.69e+05	1.04	y	45:03	0.62	18.2		-	-	*	
PCB-172	5.27e+06	1.00	y	45:27	0.64	163		-	-	*	
PCB-192	*	*	n	NotFnd	0.84	*		1490	612	0.475	
PCB-180	7.51e+07	1.05	y	45:46	0.65	2290		-	-	*	
PCB-193	4.97e+06	1.01	y	45:56	0.90	109		-	-	*	
PCB-191	1.84e+06	0.99	y	46:09	0.83	43.5		-	-	*	
PCB-170	3.05e+07	1.04	y	47:04	0.60	1000		-	-	*	
PCB-190	8.67e+06	1.03	y	47:14	0.85	202		-	-	*	
PCB-189	1.73e+06	1.07	y	48:26	1.06	32.0		-	-	*	
13C-PCB-189	1.02e+08	1.06	y	48:24	0.96	1900					94.9
PCB-202	3.95e+06	0.85	y	44:49	1.03	91.7		-	-	*	
PCB-201	2.87e+06	0.89	y	45:15	1.09	62.9		-	-	*	
PCB-204	*	*	n	NotFnd	1.05	*		532	920	0.352	
PCB-197	8.93e+05	0.86	y	45:40	1.09	19.5		-	-	*	
PCB-200	2.60e+06	0.88	y	46:24	1.04	59.4		-	-	*	
PCB-198	7.40e+05	0.88	y	47:35	0.70	25.1		-	-	*	
PCB-199	1.52e+07	0.92	y	47:42	0.70	521		-	-	*	
PCB-203	1.79e+07	0.91	y	47:56	0.83	515		-	-	*	Co-elute PCB 196
PCB-196	1.79e+07	0.91	y	47:56	0.83	515		-	-	*	Co-elute PCB 203
13C-PCB-202	8.38e+07	0.90	y	44:47	0.89	1690					84.6
13C-PCB-178	6.77e+07	1.07	y	42:19	0.78	1550					77.4
13C-PCB-138	1.12e+08	1.28	y	46:44	-	41.0					
PCB-195	6.98e+06	0.90	y	49:02	0.67	185		-	-	*	
PCB-194	1.95e+07	0.90	y	49:50	0.84	417		-	-	*	
PCB-205	1.29e+06	0.94	y	50:05	1.06	21.8		-	-	*	
13C-PCB-205	1.12e+08	0.90	y	50:05	1.30	2050					102
PCB-208	2.20e+06	1.37	y	49:10	1.09	43.1		-	-	*	
13C-PCB-208	9.43e+07	0.82	y	49:09	1.05	2130					106
PCB-207	1.14e+06	1.38	y	49:27	1.22	22.5		-	-	*	
PCB-206	6.61e+06	1.32	y	51:18	1.08	169		-	-	*	
13C-PCB-206	7.26e+07	0.81	y	51:17	0.89	1930					96.3
PCB-209	3.47e+06	1.18	y	52:29	1.14	72.4		-	-	*	
13C-PCB-209	8.41e+07	1.19	y	52:29	1.10	1800					90.0
13C-PCB-194	8.45e+07	0.92	y	49:50	-	32.3					

Analyst:_____ Date:_____

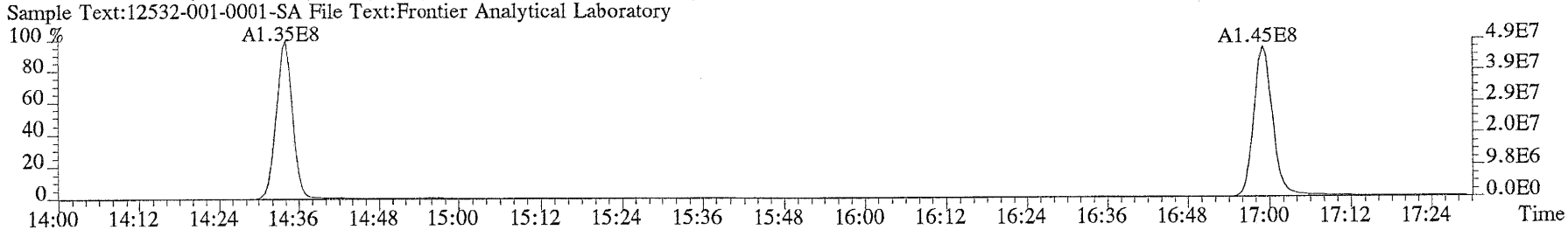
File:24JUL19Z #1-783 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



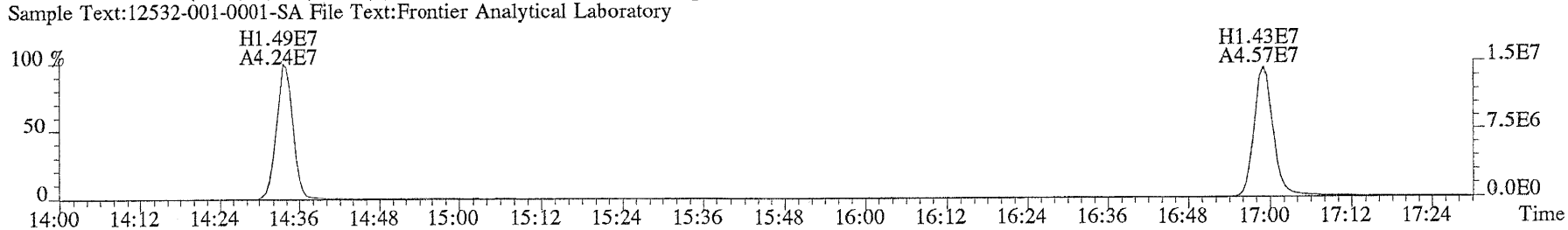
File:24JUL19Z #1-783 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



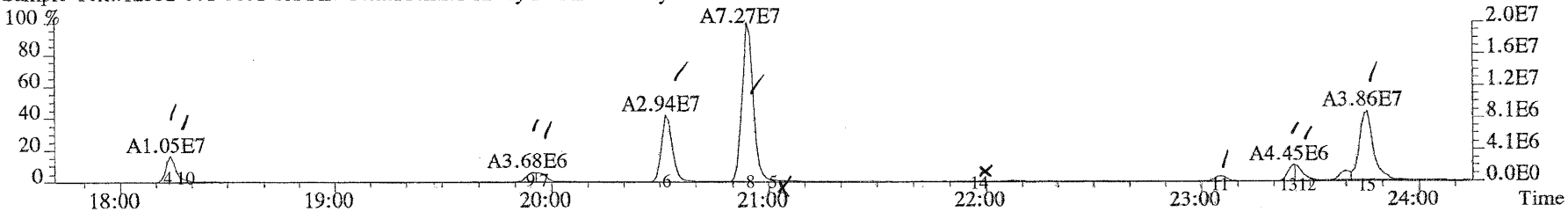
File:24JUL19Z #1-783 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



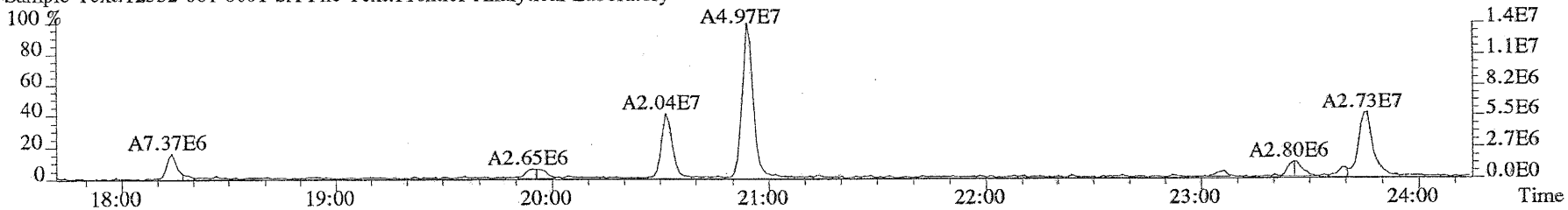
File:24JUL19Z #1-783 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



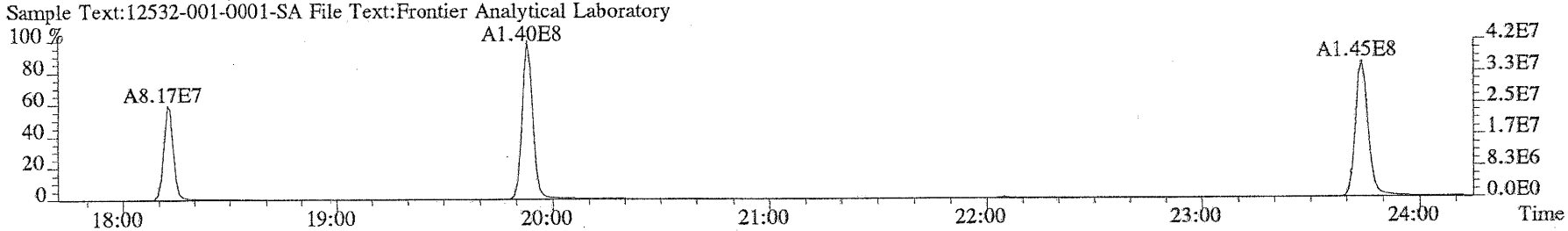
File:24JUL19Z #1-520 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



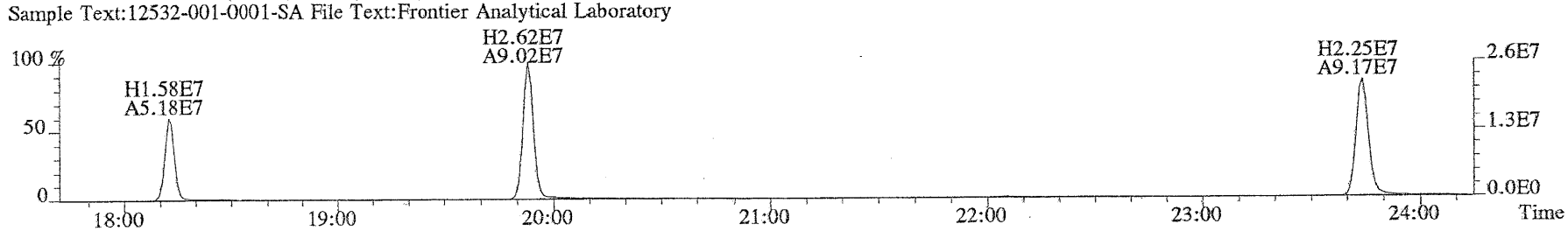
File:24JUL19Z #1-520 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



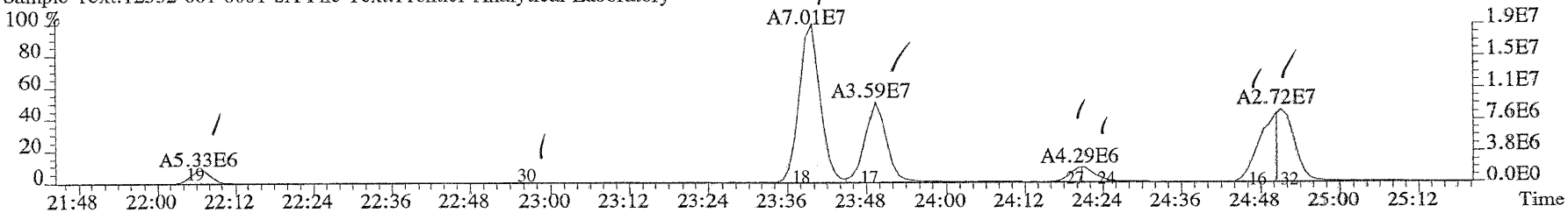
File:24JUL19Z #1-520 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



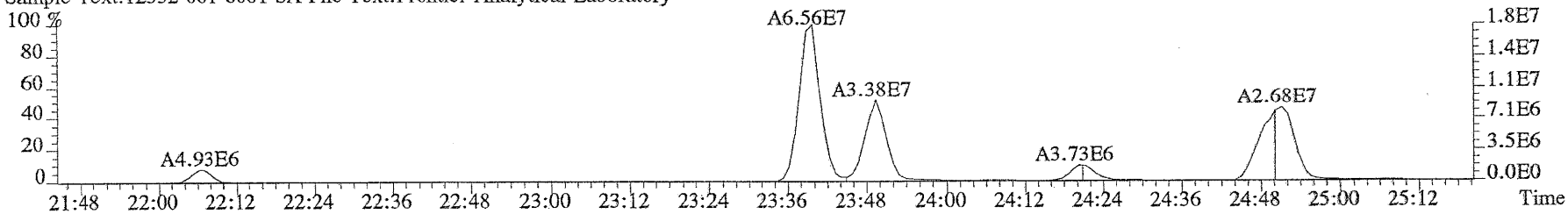
File:24JUL19Z #1-520 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



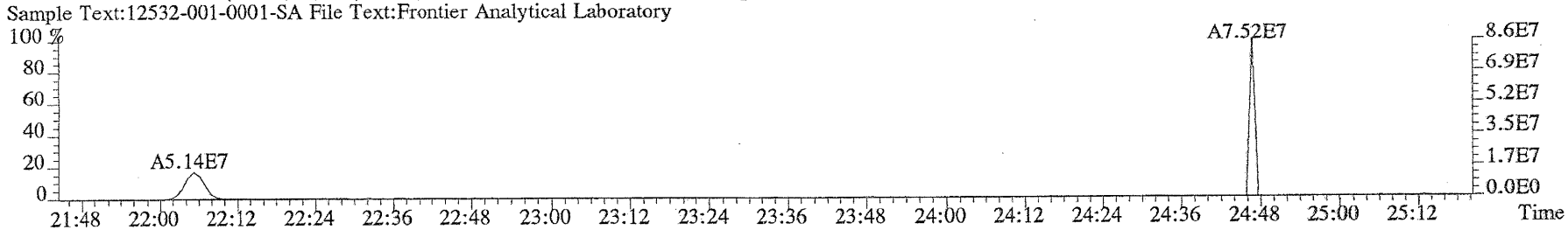
File:24JUL19Z #1-520 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



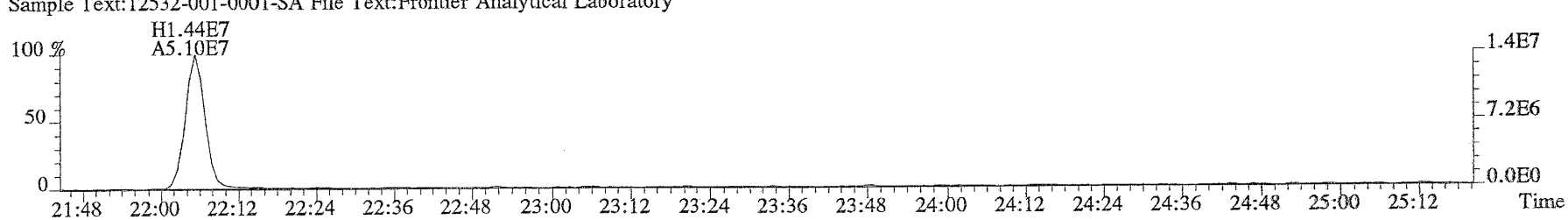
File:24JUL19Z #1-520 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



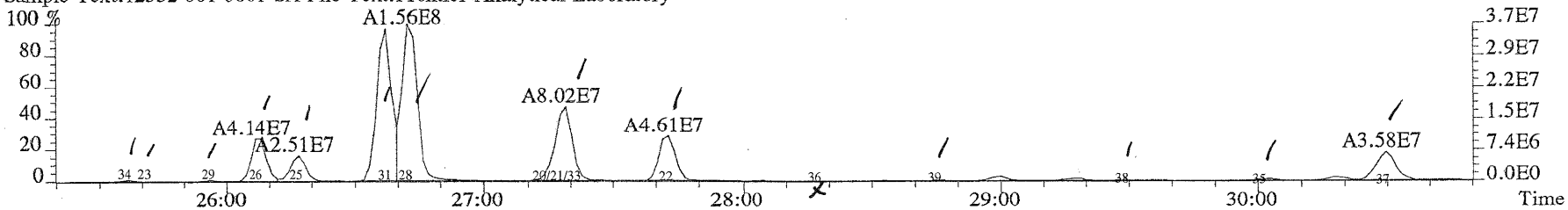
File:24JUL19Z #1-520 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



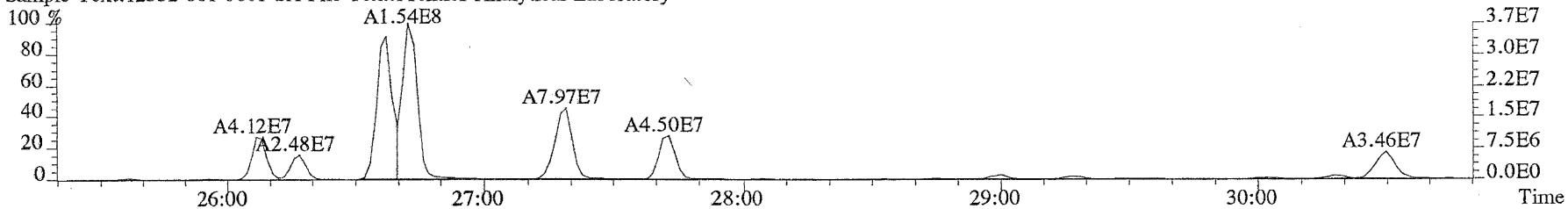
File:24JUL19Z #1-520 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



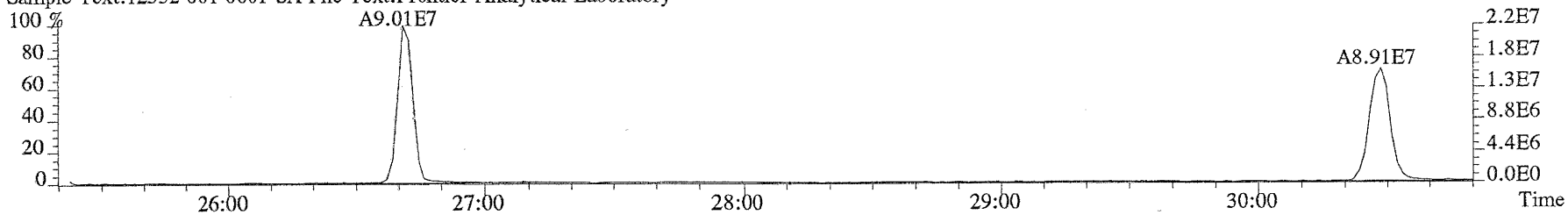
File:24JUL19Z #1-401 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



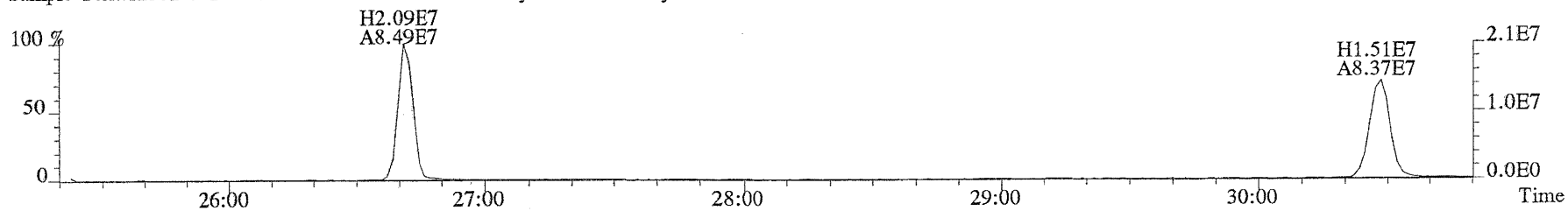
File:24JUL19Z #1-401 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



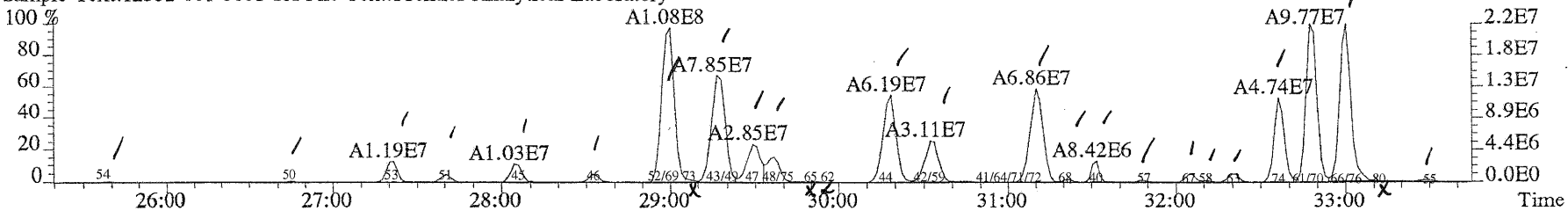
File:24JUL19Z #1-401 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



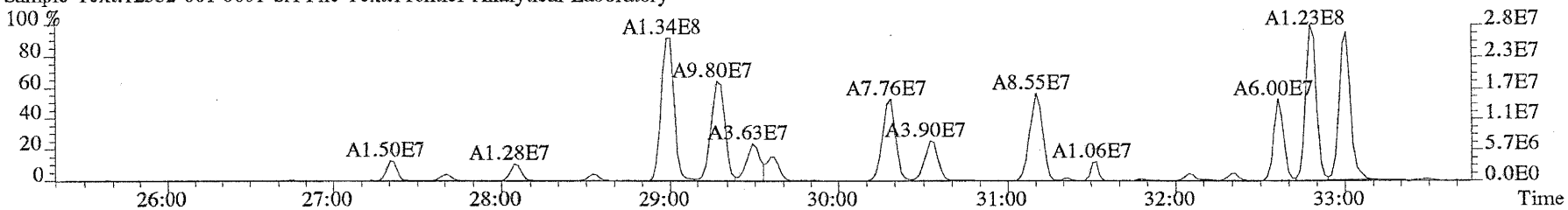
File:24JUL19Z #1-401 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-401 Acq:24-JUL-2019 14:56:56 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:12532-001-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-401 Acq:24-JUL-2019 14:56:56 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:12532-001-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-401 Acq:24-JUL-2019 14:56:56 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
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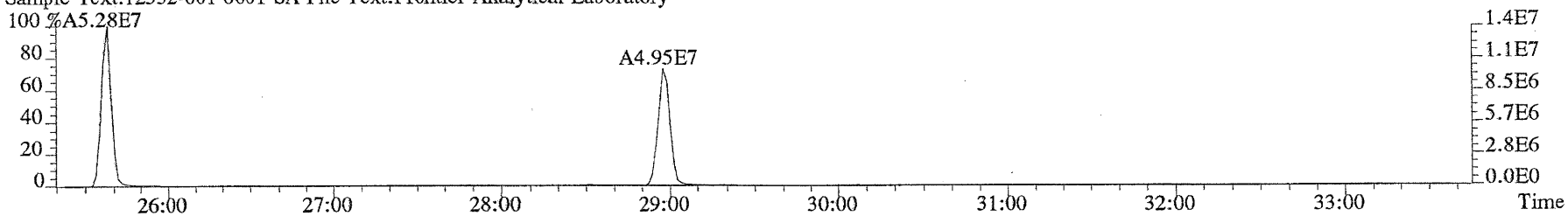

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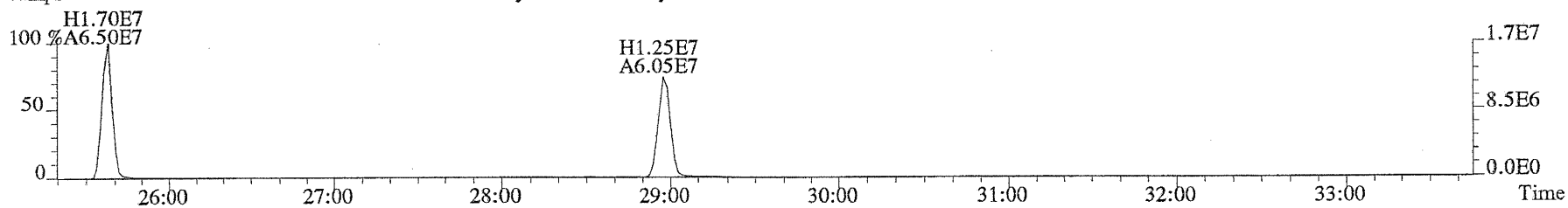
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



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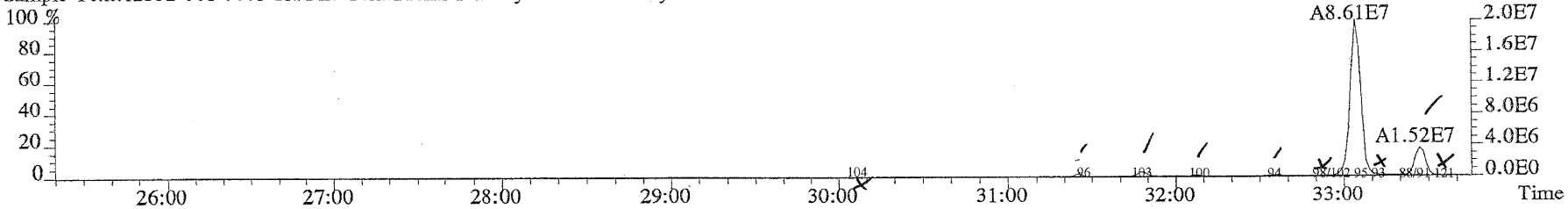
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



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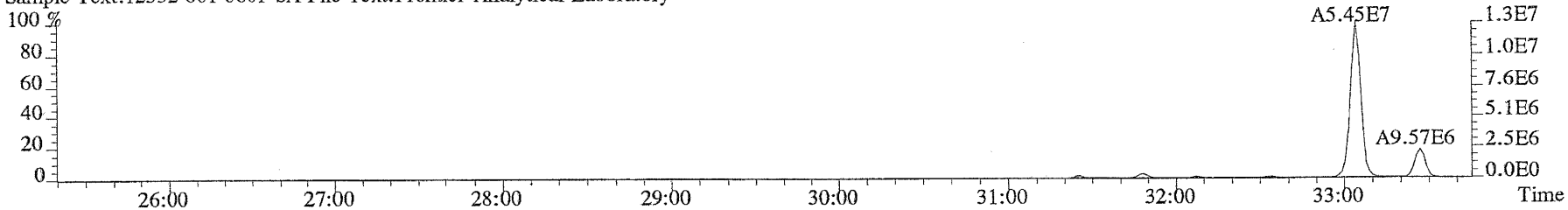

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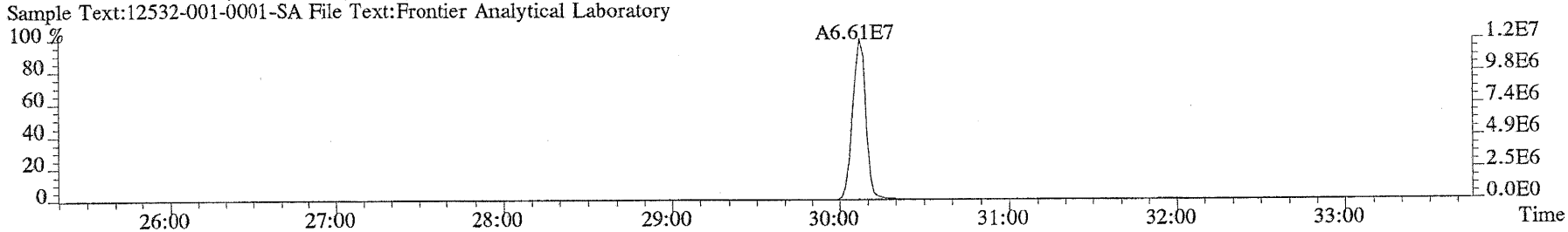

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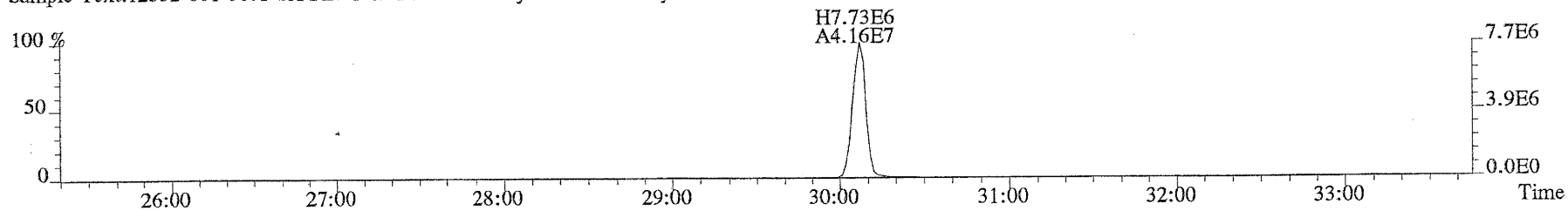
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



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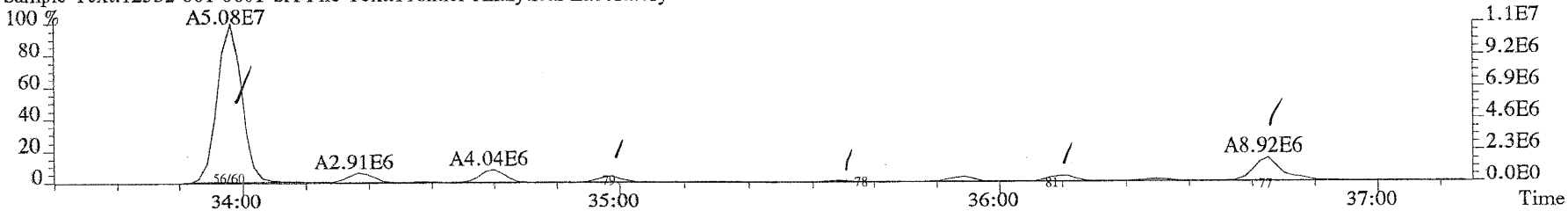

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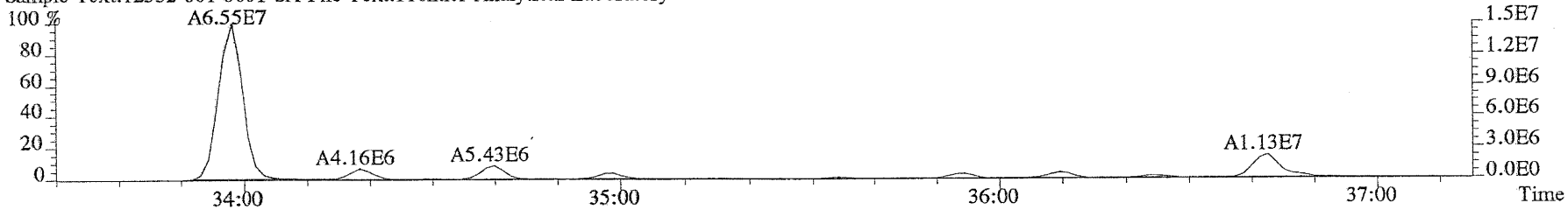
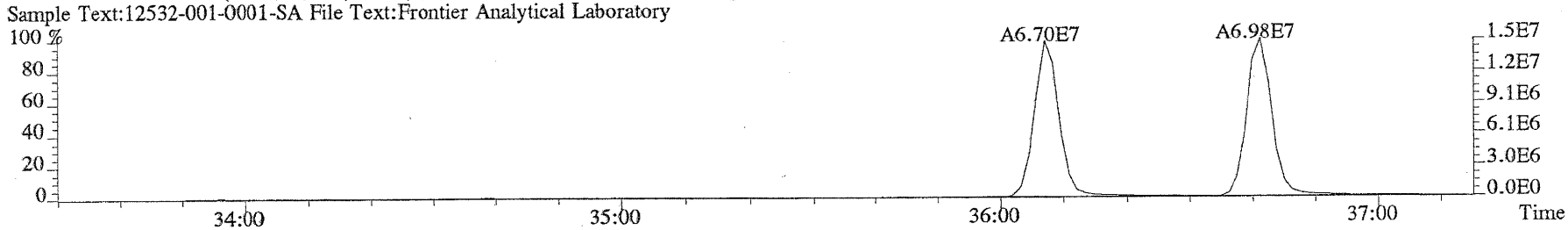


File:24JUL19Z #1-181 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-181 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
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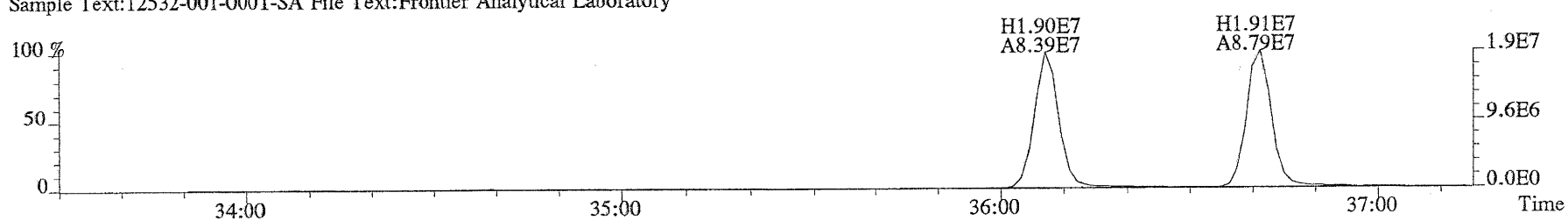
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-181 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
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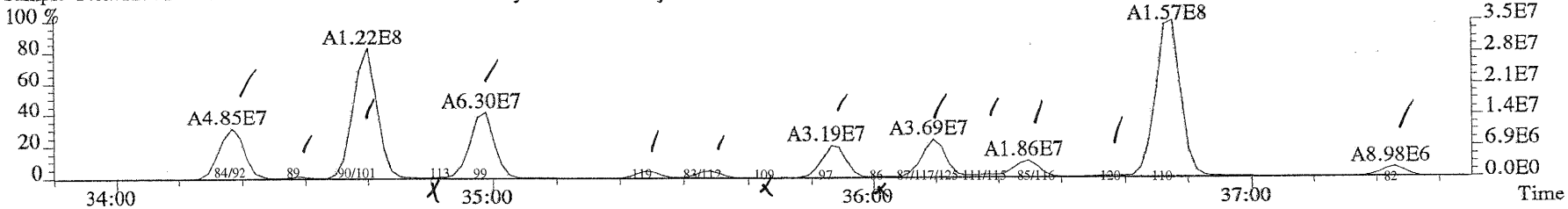
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



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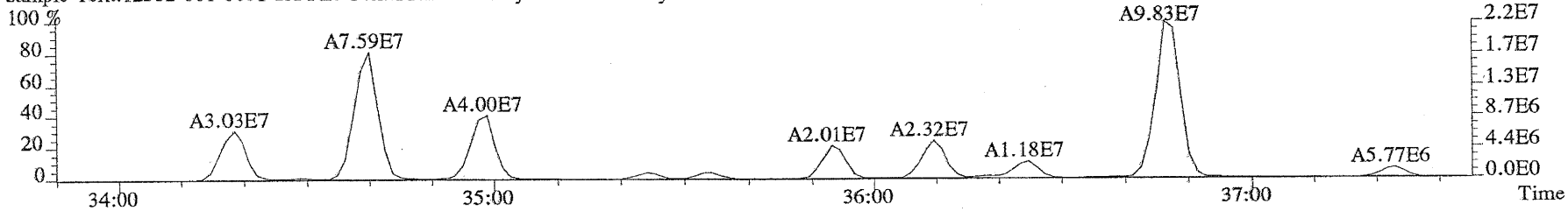
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



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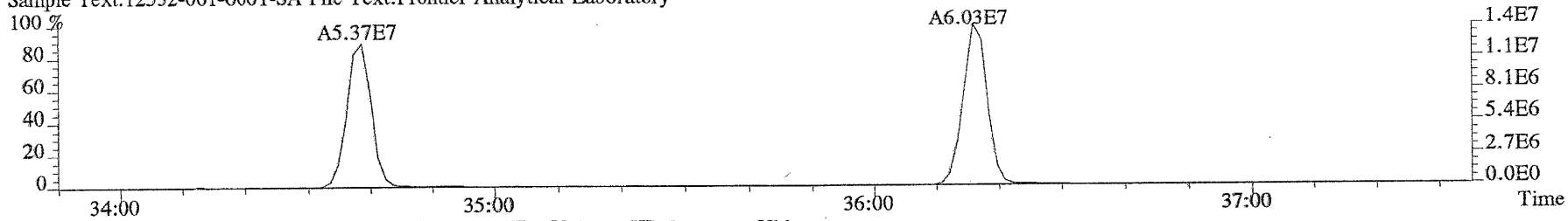
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



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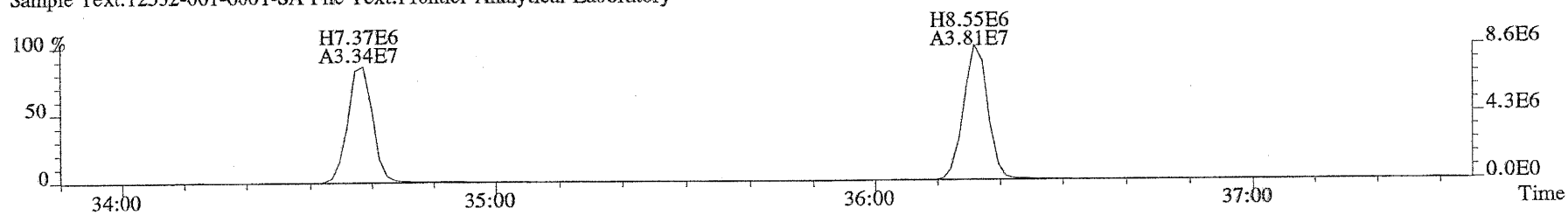
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



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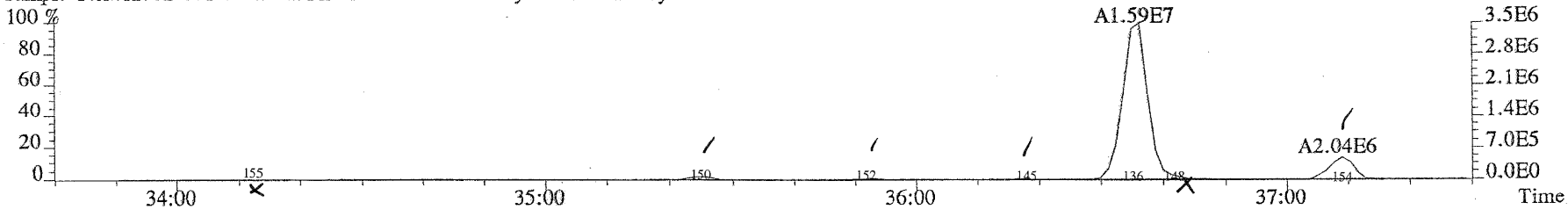
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



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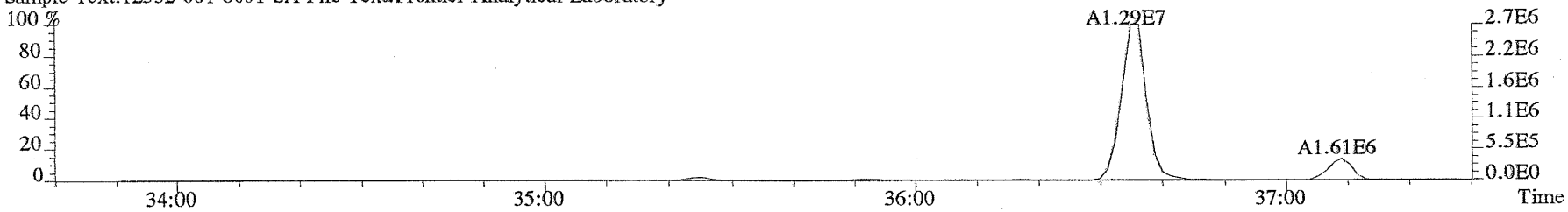

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371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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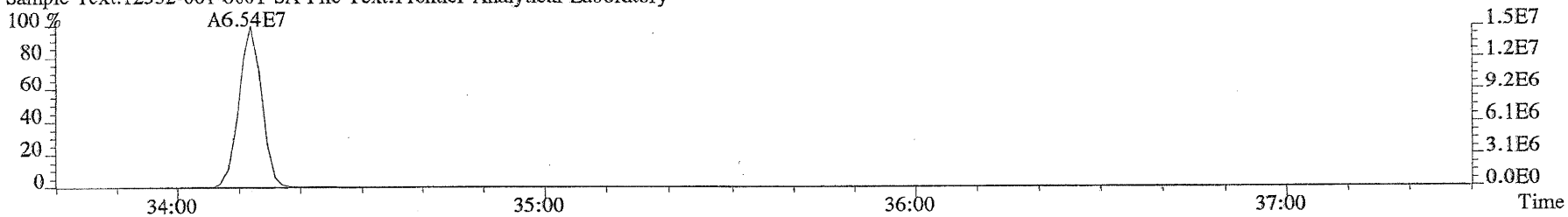
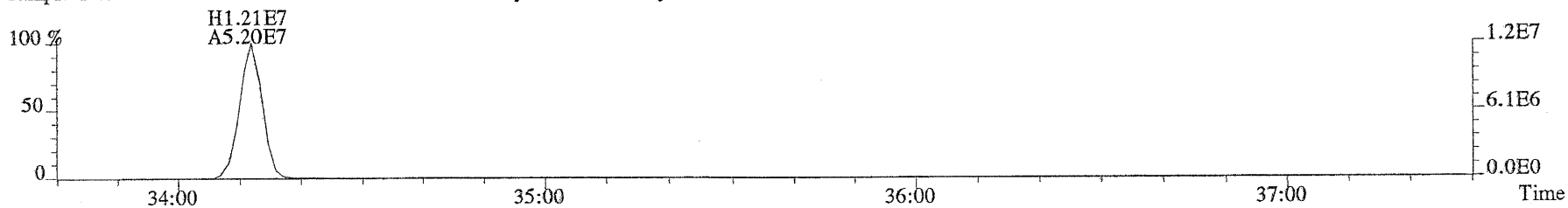
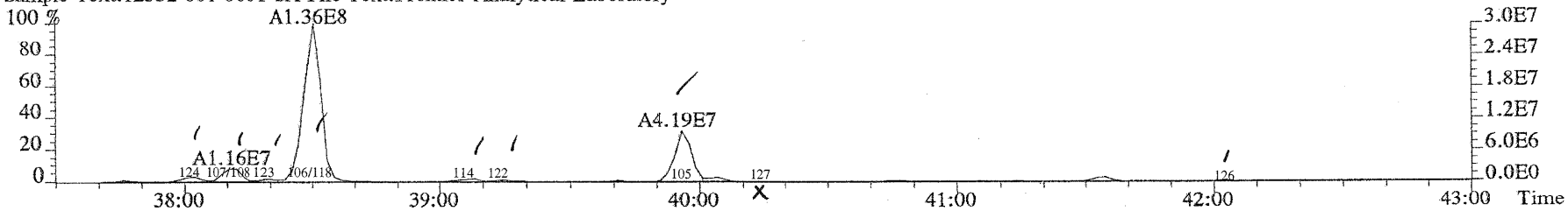


File:24JUL19Z #1-181 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 14:56:56 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:12532-001-0001-SA File Text:Frontier Analytical Laboratory



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327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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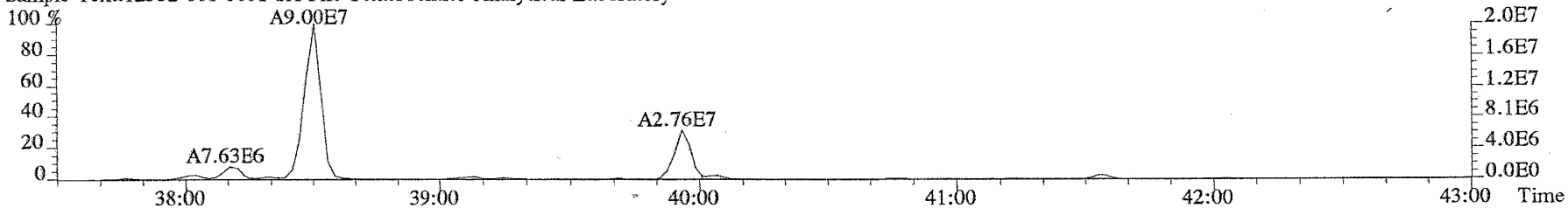

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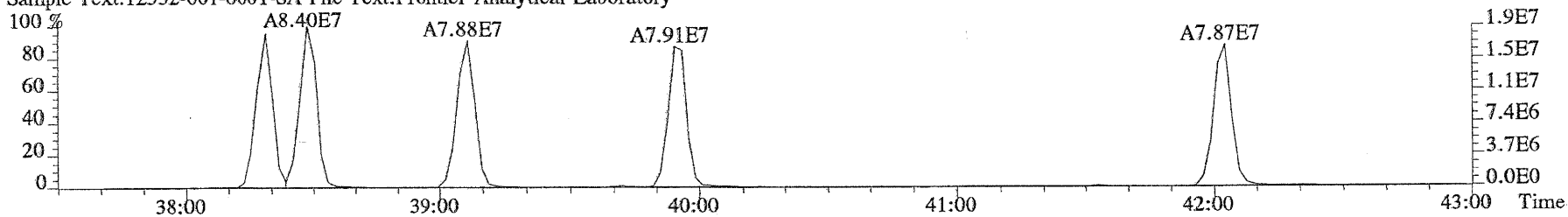
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



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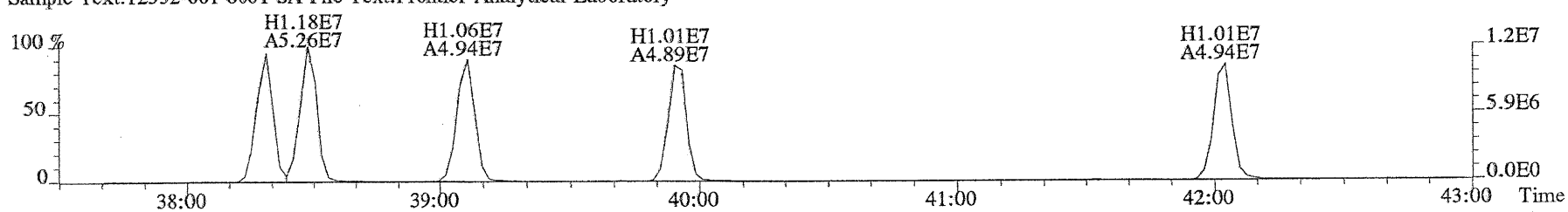

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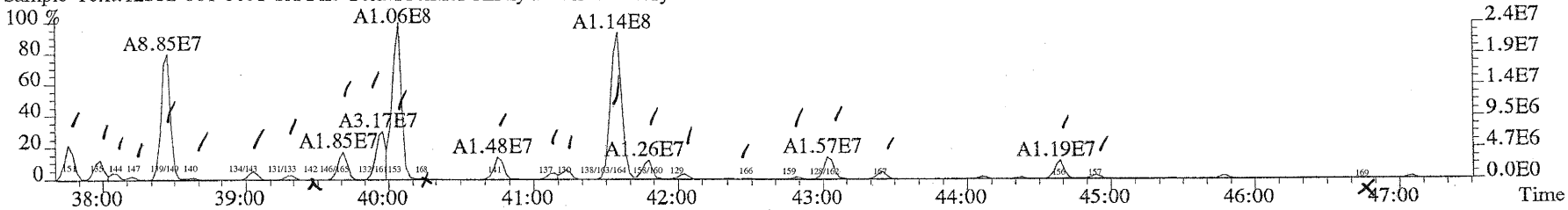
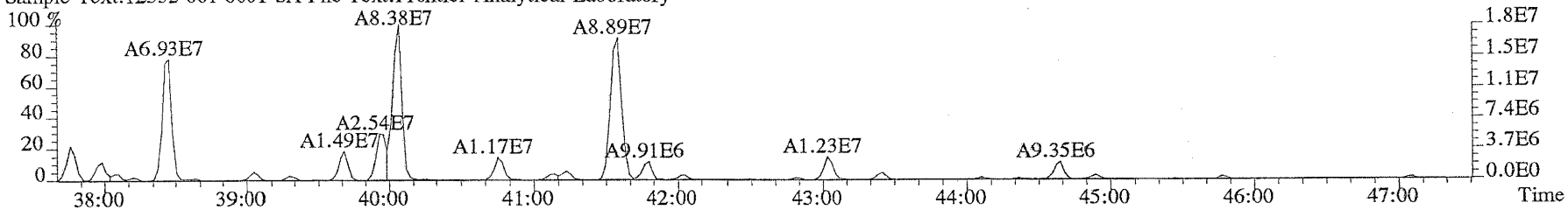
359.8415 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



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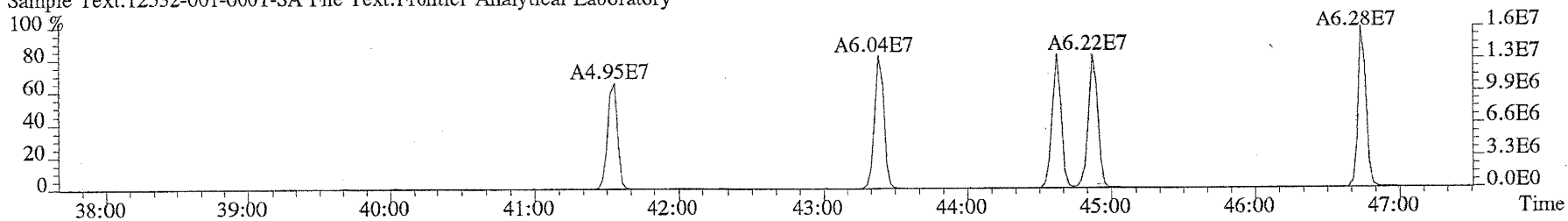
371.8817 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
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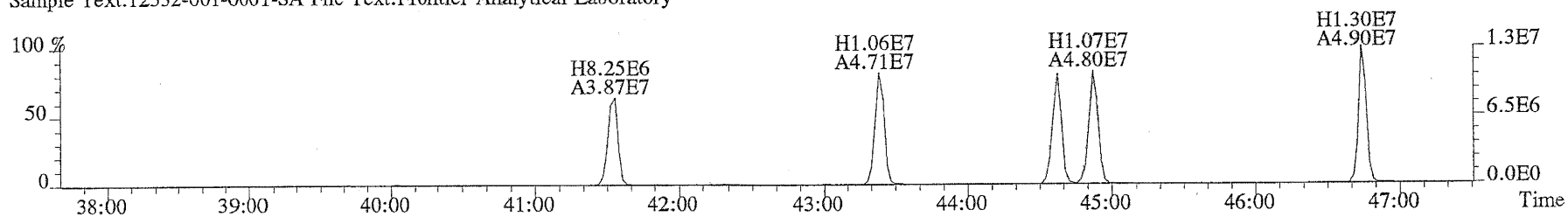
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



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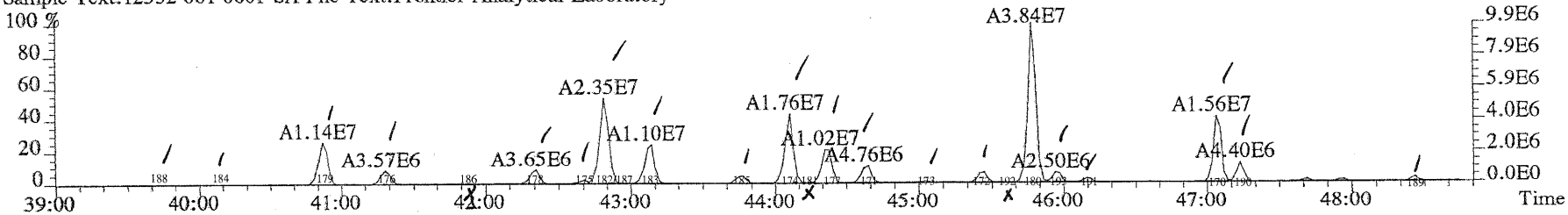
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



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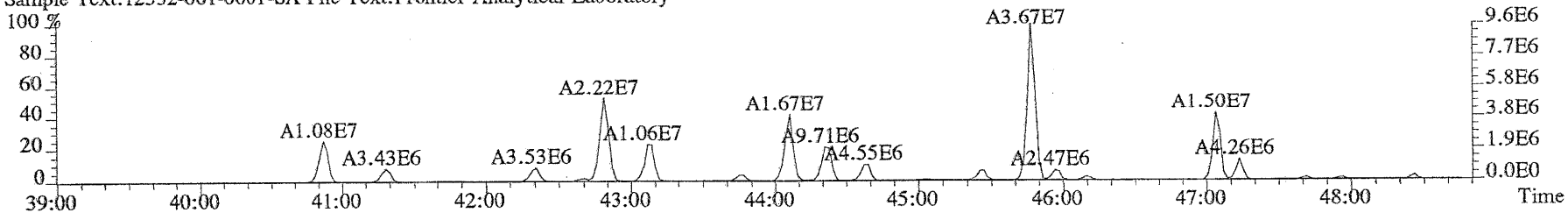

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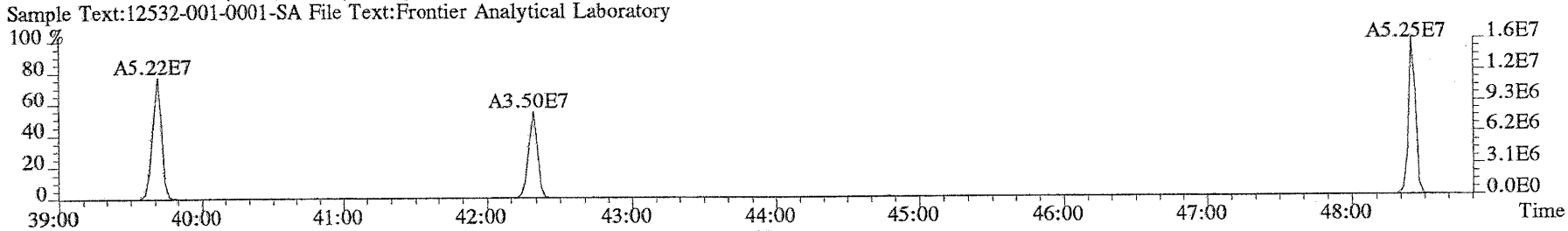
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



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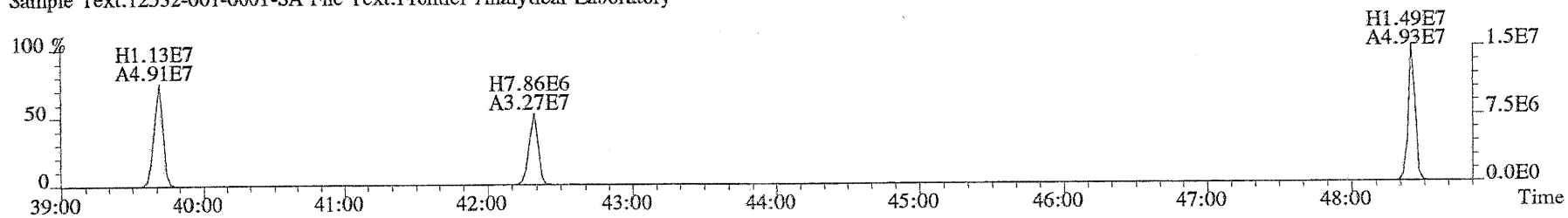
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



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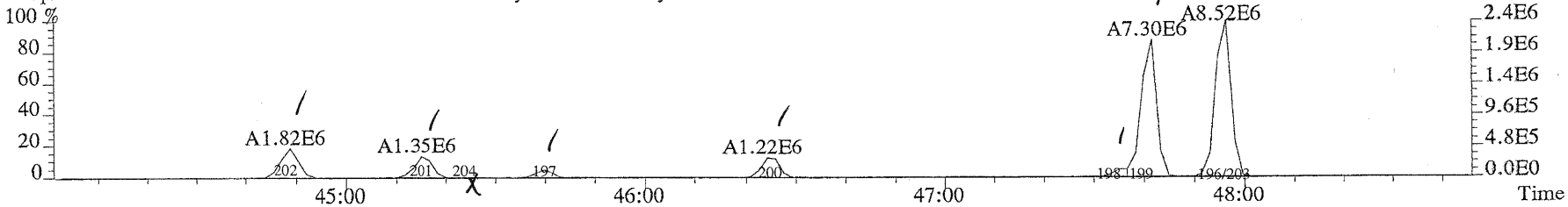
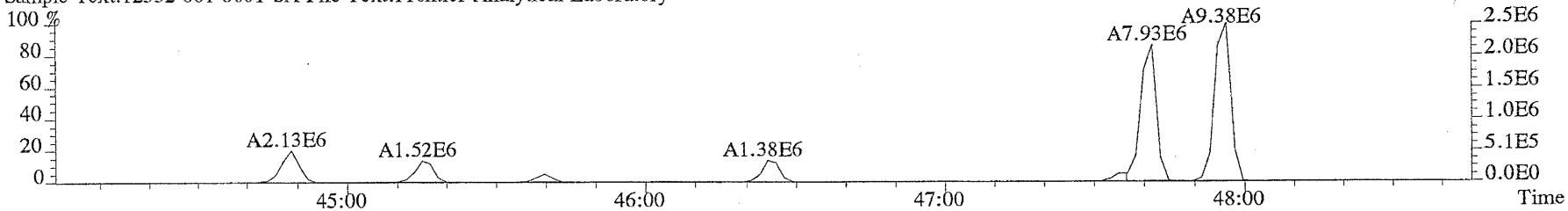
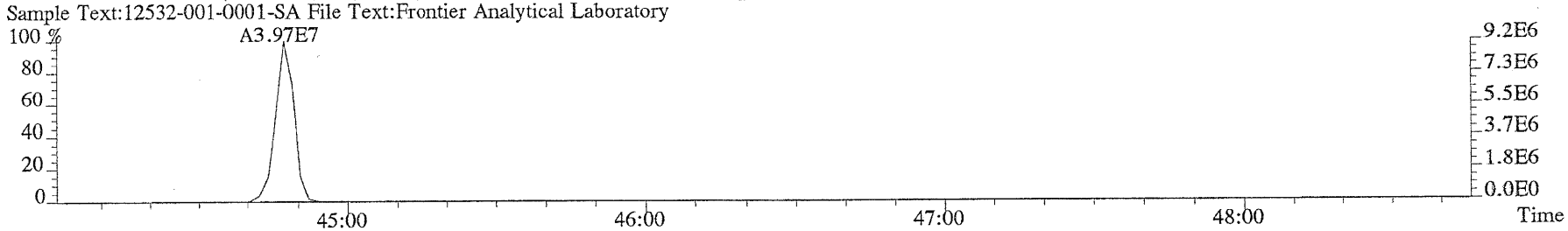


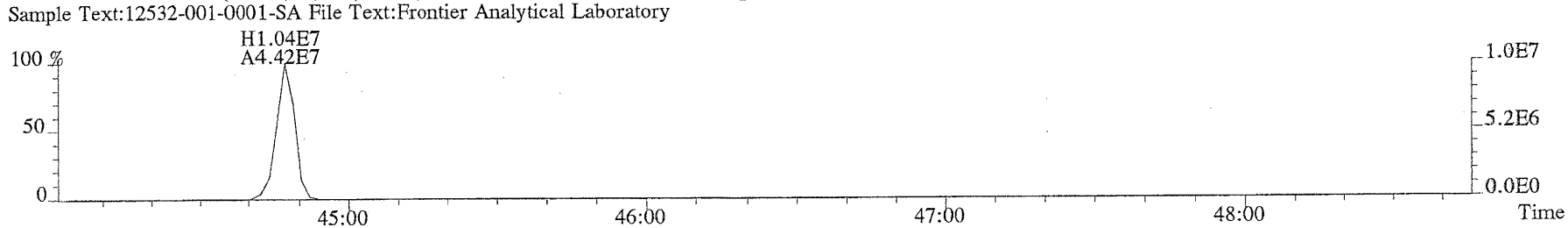
File:24JUL19Z #1-405 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



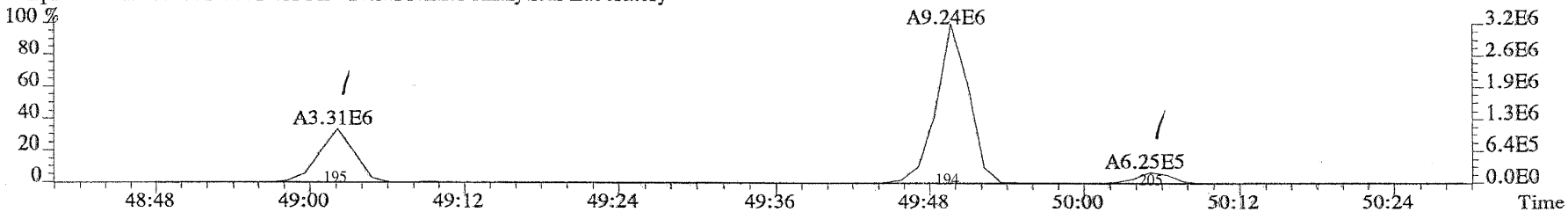
File:24JUL19Z #1-405 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



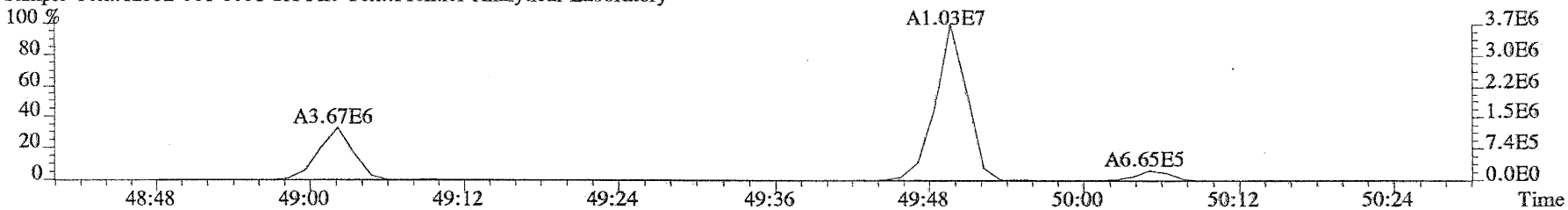
File:24JUL19Z #1-405 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



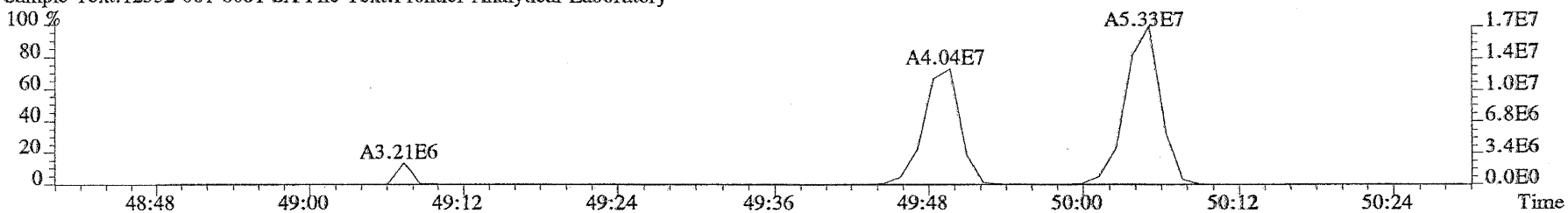
File:24JUL19Z #1-315 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



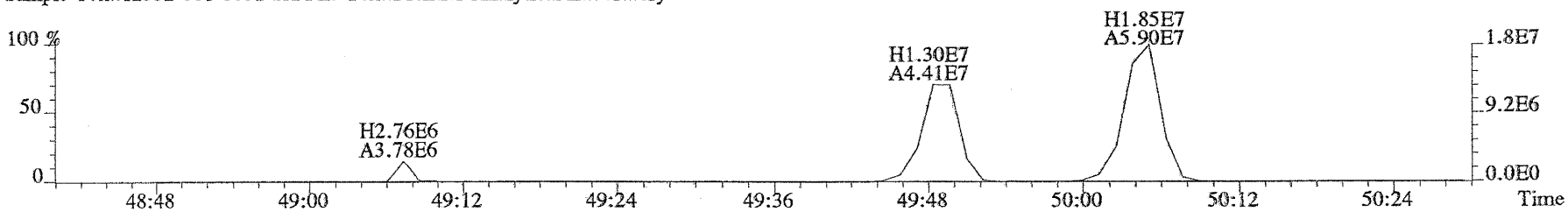
File:24JUL19Z #1-315 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



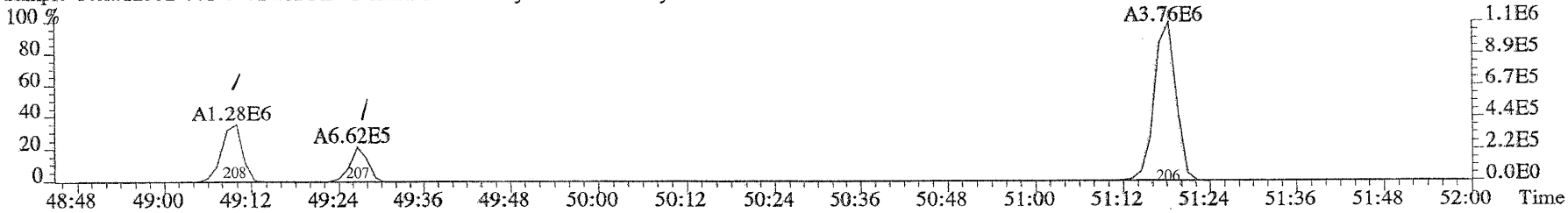
File:24JUL19Z #1-315 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



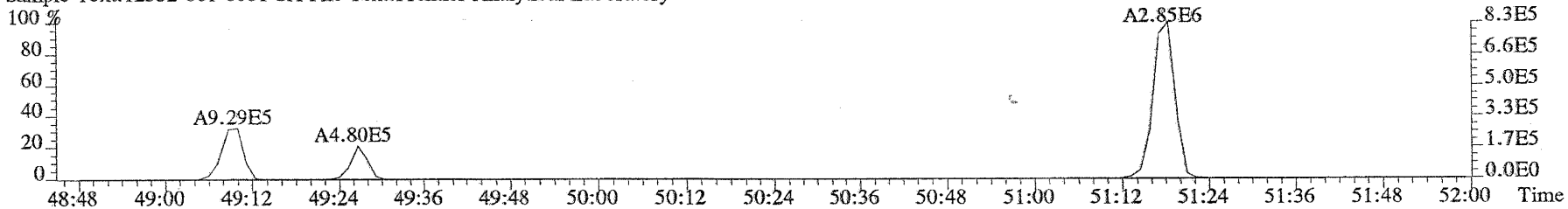
File:24JUL19Z #1-315 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



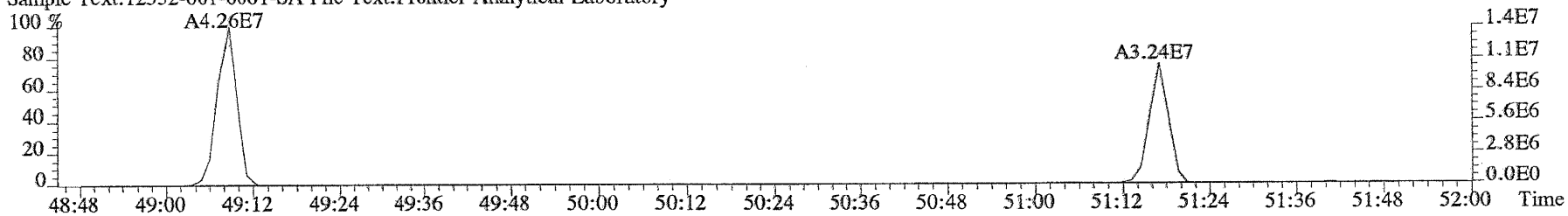
File:24JUL19Z #1-315 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



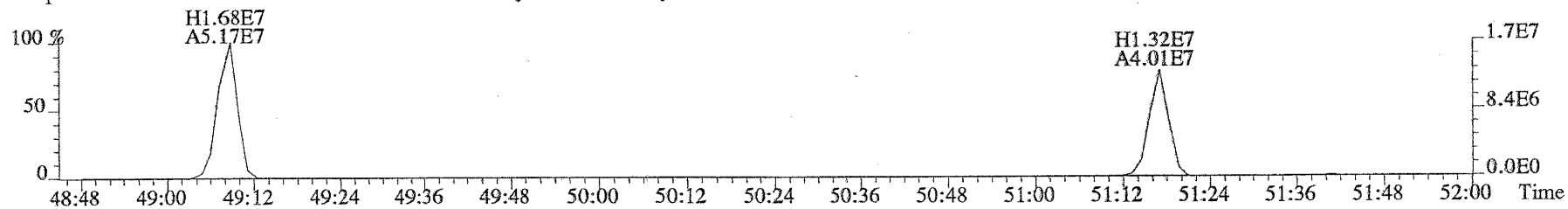
File:24JUL19Z #1-315 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



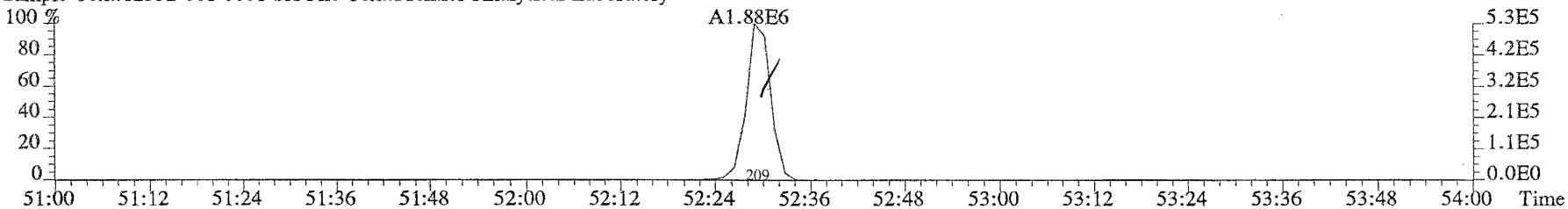
File:24JUL19Z #1-315 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



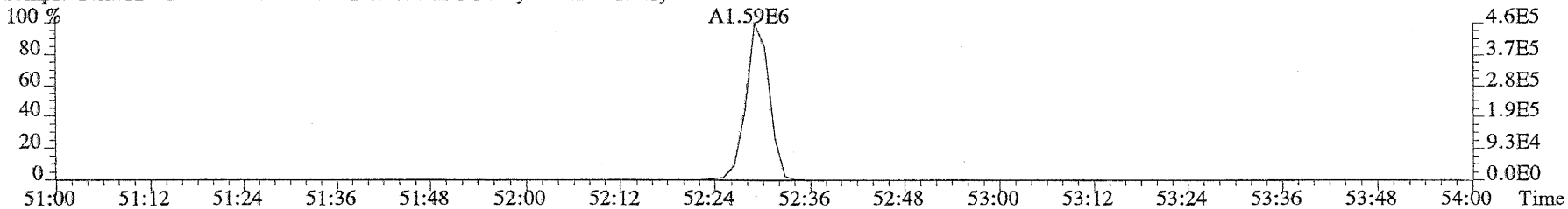
File:24JUL19Z #1-315 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



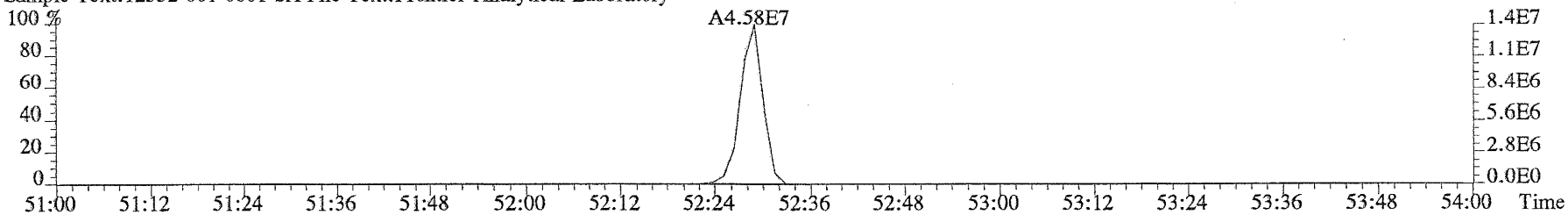
File:24JUL19Z #1-315 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



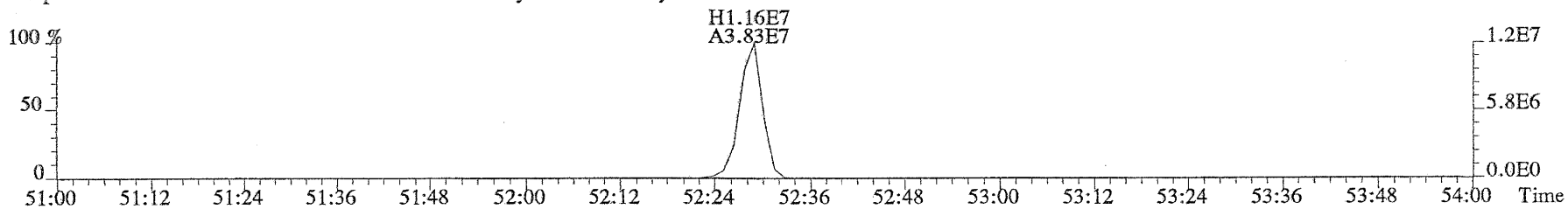
File:24JUL19Z #1-315 Acq:24-JUL-2019 14:56:56 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-001-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 14:56:56 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:12532-001-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 14:56:56 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:12532-001-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12532-002-0001-SA Filename: 24JUL19Z Sam:6 Acquired: 24-JUL-19 15:55:37 ICal: DAILYFAL4-7-24-19
Client ID: LDW-Y2-SU-ENR-CB-CORE ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 5.100

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	7.66e+06	3.06 y	14:34	1.19	67.2		-	-	*	
13C-PCB-1	1.88e+08	3.15 y	14:33	0.82	1850					94.3
PCB-2	1.61e+06	2.93 y	16:47	1.22	13.2		-	-	*	
PCB-3	6.03e+06	3.02 y	17:00	1.21	47.5		-	-	*	
13C-PCB-3	2.05e+08	3.19 y	16:59	0.85	1950					99.5
PCB-4	4.87e+07	1.45 y	18:14	1.14	606		-	-	*	
PCB-10	4.70e+06	1.54 y	18:18	1.32	36.5		-	-	*	
13C-PCB-4	1.38e+08	1.58 y	18:13	0.63	1790					91.2
PCB-9	1.52e+07	1.43 y	19:55	1.39	113		-	-	*	
PCB-7	1.42e+07	1.60 y	19:57	1.42	103		-	-	*	
PCB-6	1.10e+08	1.57 y	20:33	1.39	817		-	-	*	
PCB-8	3.15e+08	1.54 y	20:55	1.41	2300		-	-	*	
PCB-5	*	* n	NotFnd	1.37	*		1670	9700	0.792	
PCB-14	*	* n	NotFnd	1.31	*		1670	9700	0.833	
PCB-11	9.13e+06	1.35 y	23:06	1.23	76.5		-	-	*	
PCB-13	1.71e+07	1.37 y	23:26	1.26	139		-	-	*	
PCB-12	2.03e+07	1.44 y	23:27	1.26	166		-	-	*	
PCB-15	1.60e+08	1.46 y	23:47	1.16	1110		-	-	*	
13C-PCB-15	2.43e+08	1.59 y	23:45	0.96	2040					104
PCB-19	2.29e+07	1.06 y	22:08	1.16	354		-	-	*	
PCB-30	4.93e+05	1.17 y	22:59	1.82	4.85		-	-	*	
PCB-18	3.18e+08	1.07 y	23:41	1.20	4760		-	-	*	
PCB-17	1.63e+08	1.07 y	23:50	1.30	2250		-	-	*	
PCB-27	1.69e+07	1.04 y	24:21	1.77	172		-	-	*	
PCB-24	1.77e+07	1.11 y	24:22	1.77	179		-	-	*	
PCB-16	1.18e+08	1.05 y	24:51	1.48	1420		-	-	*	
PCB-32	1.29e+08	1.07 y	24:52	1.48	1550		-	-	*	
13C-PCB-19	1.09e+08	1.02 y	22:06	0.45	1970					100
13C-PCB-9	2.42e+08	1.56 y	19:54	-	27.9					
PCB-34	7.08e+06	1.03 y	25:38	1.16	67.6		-	-	*	
PCB-23	7.61e+05	1.11 y	25:43	1.33	6.35		-	-	*	
PCB-29	4.44e+06	1.04 y	25:57	1.33	37.1		-	-	*	
PCB-26	2.00e+08	1.01 y	26:08	1.27	1740		-	-	*	
PCB-25	1.07e+08	1.01 y	26:18	1.22	970		-	-	*	
PCB-31	7.37e+08	1.02 y	26:38	1.20	6820		-	-	*	
PCB-28	7.80e+08	1.00 y	26:43	1.55	5580		-	-	*	
PCB-20	4.19e+08	1.03 y	27:19	1.23	3790		-	-	*	Co-elute PCB 21/33
PCB-21	4.19e+08	1.03 y	27:19	1.23	3790		-	-	*	Co-elute PCB 20/33
PCB-33	4.19e+08	1.03 y	27:19	1.23	3790		-	-	*	Co-elute PCB 20/21
PCB-22	2.53e+08	1.02 y	27:44	1.37	2050		-	-	*	
PCB-36	*	* n	NotFnd	1.27	*		3990	1440	0.676	
PCB-39	1.22e+06	0.91 y	28:47	1.24	10.9		-	-	*	
PCB-38	3.78e+06	0.98 y	29:32	1.27	33.0		-	-	*	
PCB-35	1.02e+07	1.02 y	30:03	1.12	101		-	-	*	
PCB-37	1.81e+08	1.03 y	30:30	1.17	1720		-	-	*	
13C-PCB-37	1.77e+08	1.08 y	30:30	1.46	2090					107

FAL ID: 12532-002-0001-SA Filename: 24JUL19Z Sam:6 Acquired: 24-JUL-19 15:55:37 ICal: DAILYFAL4-7-24-19
Client ID: LDW-Y2-SU-ENR-CB-CORE ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 5.100

PCB-54	1.14e+06	0.83	y	25:39	1.26	14.1	-	-	*	
PCB-50	1.72e+06	0.80	y	26:46	0.99	27.1	-	-	*	
PCB-53	6.09e+07	0.80	y	27:21	0.98	966	-	-	*	
PCB-51	1.94e+07	0.80	y	27:42	1.01	297	-	-	*	
PCB-45	5.32e+07	0.80	y	28:06	0.83	992	-	-	*	
PCB-46	1.95e+07	0.80	y	28:33	0.81	374	-	-	*	
PCB-52	6.59e+08	0.79	y	29:00	1.05	9730	-	-	*	Co-elute PCB 69
PCB-69	6.59e+08	0.79	y	29:00	1.05	9730	-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.20	*	1250	1780	0.399	
PCB-43	4.25e+08	0.80	y	29:18	0.91	7270	-	-	*	Co-elute PCB 49
PCB-49	4.25e+08	0.80	y	29:18	0.91	7270	-	-	*	Co-elute PCB 43
PCB-47	1.45e+08	0.79	y	29:30	0.92	2460	-	-	*	
PCB-48	9.38e+07	0.80	y	29:37	1.19	1230	-	-	*	Co-elute PCB 75
PCB-75	9.38e+07	0.80	y	29:37	1.19	1230	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.20	*	1250	1780	0.400	
PCB-62	*	*	n	NotFnd	1.16	*	1250	1780	0.414	
PCB-44	3.23e+08	0.79	y	30:18	0.78	6470	-	-	*	
PCB-42	1.46e+08	0.81	y	30:34	1.01	2240	-	-	*	Co-elute PCB 59
PCB-59	1.46e+08	0.81	y	30:34	1.01	2240	-	-	*	Co-elute PCB 42
PCB-72	3.52e+08	0.80	y	31:11	1.14	4790	-	-	*	Co-elute PCB 41/71/64
PCB-41	3.52e+08	0.80	y	31:11	1.14	4790	-	-	*	Co-elute PCB 72/71/64
PCB-71	3.52e+08	0.80	y	31:11	1.14	4790	-	-	*	Co-elute PCB 72/41/64
PCB-64	3.52e+08	0.80	y	31:11	1.14	4790	-	-	*	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	1.33	*	1250	1780	0.363	
PCB-40	5.24e+06	0.85	y	31:28	0.71	115	-	-	*	
PCB-57	4.26e+06	0.80	y	31:52	1.21	54.6	-	-	*	
PCB-67	2.42e+07	0.79	y	32:08	1.19	318	-	-	*	
PCB-58	3.09e+06	0.80	y	32:13	1.22	39.4	-	-	*	
PCB-63	2.82e+07	0.81	y	32:24	1.22	359	-	-	*	
PCB-74	3.24e+08	0.80	y	32:39	1.22	4150	-	-	*	
PCB-61	7.36e+08	0.80	y	32:50	1.10	10400	-	-	*	Co-elute PCB 70
PCB-70	7.36e+08	0.80	y	32:50	1.10	10400	-	-	*	Co-elute PCB 61
PCB-76	6.35e+08	0.80	y	33:01	1.25	7910	-	-	*	Co-elute PCB 66
PCB-66	6.35e+08	0.80	y	33:01	1.25	7910	-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.40	*	1250	1780	0.344	
PCB-55	1.16e+07	0.82	y	33:32	1.22	148	-	-	*	
13C-PCB-54	1.26e+08	0.81	y	25:38	1.21	1790				91.5
PCB-104	*	*	n	NotFnd	1.12	*	904	868	0.399	
PCB-96	3.86e+06	1.53	y	31:28	1.06	67.2	-	-	*	
PCB-103	6.51e+06	1.56	y	31:52	0.86	139	-	-	*	
PCB-100	3.18e+06	1.52	y	32:11	0.86	68.0	-	-	*	
PCB-94	2.49e+06	1.52	y	32:36	0.72	63.5	-	-	*	
PCB-98	*	*	n	NotFnd	0.78	*	904	868	0.570	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.78	*	904	868	0.570	Co-elute PCB 98
PCB-95	4.50e+08	1.56	y	33:07	0.73	11300	-	-	*	
PCB-93	*	*	n	NotFnd	0.72	*	904	868	0.616	
PCB-88	7.64e+07	1.54	y	33:29	0.84	1670	-	-	*	Co-elute PCB 91
PCB-91	7.64e+07	1.54	y	33:29	0.84	1670	-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.95	*	904	868	0.470	
13C-PCB-104	1.07e+08	1.57	y	30:08	1.00	1830				93.5
13C-PCB-28	1.81e+08	1.04	y	26:42	1.75	1790				91.4
13C-PCB-52	1.14e+08	0.81	y	28:59	-	27.8				

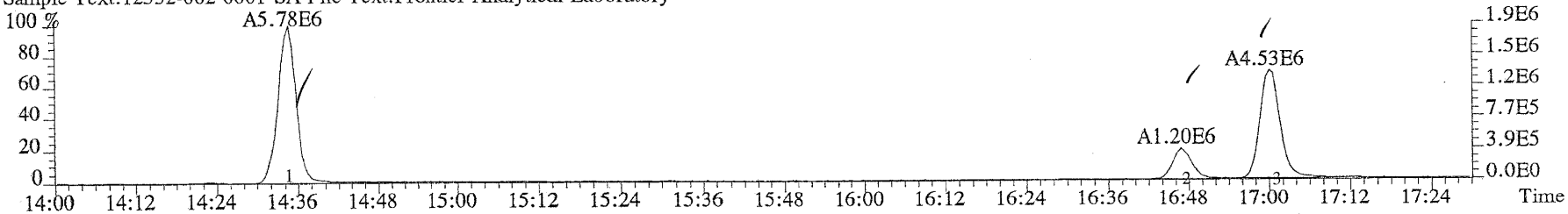
PCB-56	3.88e+08	0.78	y	33:59	1.14	3740		-	-	*	Co-elute PCB 60
PCB-60	3.88e+08	0.78	y	33:59	1.14	3740		-	-	*	Co-elute PCB 56
PCB-79	1.18e+07	0.74	y	35:00	1.24	104		-	-	*	
PCB-78	3.58e+06	0.77	y	35:35	1.20	32.9		-	-	*	
PCB-81	1.77e+07	0.75	y	36:11	1.21	162		-	-	*	
13C-PCB-81	1.76e+08	0.80	y	36:08	1.53	2140					109
PCB-77	6.04e+07	0.78	y	36:44	1.04	626		-	-	*	
13C-PCB-77	1.81e+08	0.80	y	36:42	1.54	2190					111
PCB-155	*	*	n	NotFnd	1.05	*		1060	1140	0.334	
PCB-150	2.08e+06	1.24	y	35:27	0.95	32.9		-	-	*	
PCB-152	7.14e+05	1.24	y	35:53	0.93	11.6		-	-	*	
PCB-145	3.21e+05	1.39	y	36:18	0.93	5.18		-	-	*	
PCB-136	8.90e+07	1.26	y	36:36	0.84	1610		-	-	*	
PCB-148	*	*	n	NotFnd	0.75	*		1060	1140	0.471	
PCB-154	1.25e+07	1.23	y	37:10	0.77	244		-	-	*	
13C-PCB-155	1.30e+08	1.27	y	34:13	1.35	1780					90.7
13C-PCB-111	1.19e+08	1.60	y	36:17	1.21	1820					93.0
13C-PCB-101	1.06e+08	1.61	y	34:40	-	32.4					
PCB-84	2.56e+08	1.60	y	34:20	0.85	3870		-	-	*	Co-elute PCB 92
PCB-92	2.56e+08	1.60	y	34:20	0.85	3870		-	-	*	Co-elute PCB 84
PCB-89	6.58e+06	1.60	y	34:30	0.79	106		-	-	*	
PCB-90	7.09e+08	1.59	y	34:41	0.92	9910		-	-	*	Co-elute PCB 101
PCB-101	7.09e+08	1.59	y	34:41	0.92	9910		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*		1790	1520	0.460	
PCB-99	3.16e+08	1.60	y	35:00	0.96	4230		-	-	*	
PCB-119	2.43e+07	1.58	y	35:25	1.17	266		-	-	*	
PCB-83	3.24e+07	1.58	y	35:35	0.92	452		-	-	*	Co-elute PCB 112
PCB-112	3.24e+07	1.58	y	35:35	0.92	452		-	-	*	Co-elute PCB 83
PCB-109	2.90e+05	1.68	y	35:43	1.09	3.42	J	-	-	*	
PCB-97	1.86e+08	1.59	y	35:54	0.75	3190		-	-	*	
PCB-86	*	*	n	NotFnd	0.83	*		1790	1520	0.606	
PCB-125	2.61e+08	1.60	y	36:11	1.00	3350		-	-	*	Co-elute PCB 87/117
PCB-87	2.61e+08	1.60	y	36:11	1.00	3350		-	-	*	Co-elute PCB 125/117
PCB-117	2.61e+08	1.60	y	36:11	1.00	3350		-	-	*	Co-elute PCB 125/87
PCB-111	1.61e+07	1.56	y	36:20	1.12	183		-	-	*	Co-elute PCB 115
PCB-115	1.61e+07	1.56	y	36:20	1.12	183		-	-	*	Co-elute PCB 111
PCB-85	1.00e+08	1.60	y	36:26	0.98	1310		-	-	*	Co-elute PCB 116
PCB-116	1.00e+08	1.60	y	36:26	0.98	1310		-	-	*	Co-elute PCB 85
PCB-120	4.25e+06	1.61	y	36:40	1.21	45.0		-	-	*	
PCB-110	8.93e+08	1.58	y	36:49	1.12	10200		-	-	*	
PCB-82	5.62e+07	1.60	y	37:24	0.65	1100		-	-	*	
PCB-124	3.08e+07	1.48	y	38:02	1.16	340		-	-	*	
PCB-108	6.49e+07	1.54	y	38:12	1.12	745		-	-	*	Co-elute PCB 107
PCB-107	6.49e+07	1.54	y	38:12	1.12	745		-	-	*	Co-elute PCB 108
PCB-123	1.20e+07	1.48	y	38:22	0.97	162		-	-	*	
13C-PCB-123	1.50e+08	1.57	y	38:20	1.48	1450					73.8
PCB-118	7.33e+08	1.47	y	38:32	1.06	9100		-	-	*	Co-elute PCB 106
PCB-106	7.33e+08	1.47	y	38:32	1.06	9100		-	-	*	Co-elute PCB 118
13C-PCB-118	1.50e+08	1.60	y	38:30	1.54	1390					70.7
PCB-114	2.00e+07	1.47	y	39:08	1.07	235		-	-	*	
13C-PCB-114	1.57e+08	1.60	y	39:08	1.46	1530					78.1
PCB-122	9.15e+06	1.52	y	39:16	1.09	107		-	-	*	
PCB-105	3.08e+08	1.62	y	39:57	1.14	3390		-	-	*	
13C-PCB-105	1.56e+08	1.58	y	39:56	1.40	1600					81.4

PCB-127	*	*	n	NotFnd	1.00	*	1160	1090	0.343	
PCB-126	3.60e+06	1.51	y	42:04	1.10	40.6	-	-	*	
13C-PCB-126	1.58e+08	1.59	y	42:04	1.32	1710				87.2
PCB-151	1.12e+08	1.30	y	37:47	1.10	1490	-	-	*	
PCB-135	7.61e+07	1.28	y	37:59	1.01	1090	-	-	*	
PCB-144	2.45e+07	1.29	y	38:05	1.25	286	-	-	*	
PCB-147	1.28e+07	1.30	y	38:14	1.15	163	-	-	*	
PCB-139	4.94e+08	1.28	y	38:27	1.18	6120	-	-	*	Co-elute PCB 149
PCB-149	4.94e+08	1.28	y	38:27	1.18	6120	-	-	*	Co-elute PCB 139
PCB-140	5.81e+06	1.26	y	38:38	1.16	72.9	-	-	*	
PCB-143	3.13e+07	1.27	y	39:05	0.96	475	-	-	*	Co-elute PCB 134
PCB-134	3.13e+07	1.27	y	39:05	0.96	475	-	-	*	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.94	*	-	-	*	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.94	*	-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.99	*	1260	1420	0.456	
PCB-165	9.87e+07	1.28	y	39:43	1.26	1150	-	-	*	Co-elute PCB 146
PCB-146	9.87e+07	1.28	y	39:43	1.26	1150	-	-	*	Co-elute PCB 165
PCB-161	2.16e+08	1.23	y	39:57	1.15	2750	-	-	*	Co-elute PCB 132
PCB-132	2.16e+08	1.23	y	39:57	1.15	2750	-	-	*	Co-elute PCB 161
PCB-153	5.91e+08	1.27	y	40:04	1.27	6780	-	-	*	
PCB-168	*	*	n	NotFnd	1.35	*	1260	1420	0.333	
PCB-141	9.84e+07	1.27	y	40:47	1.02	1410	-	-	*	
PCB-137	3.14e+07	1.24	y	41:08	0.94	488	-	-	*	
PCB-130	3.72e+07	1.29	y	41:15	0.89	610	-	-	*	
PCB-138	7.33e+08	1.26	y	41:36	1.25	8560	-	-	*	Co-elute PCB 163/164
PCB-163	7.33e+08	1.26	y	41:36	1.25	8560	-	-	*	Co-elute PCB 138/164
PCB-164	7.33e+08	1.26	y	41:36	1.25	8560	-	-	*	Co-elute PCB 138/163
PCB-158	9.13e+07	1.26	y	41:49	1.33	999	-	-	*	Co-elute PCB 160
PCB-160	9.13e+07	1.26	y	41:49	1.33	999	-	-	*	Co-elute PCB 158
PCB-129	2.61e+07	1.27	y	42:04	0.85	446	-	-	*	
PCB-166	3.19e+06	1.13	y	42:30	1.28	36.4	-	-	*	
PCB-159	6.27e+06	1.31	y	42:50	1.37	66.9	-	-	*	
PCB-128	1.11e+08	1.28	y	43:03	1.08	1500	-	-	*	Co-elute PCB 162
PCB-162	1.11e+08	1.28	y	43:03	1.08	1500	-	-	*	Co-elute PCB 128
PCB-167	3.09e+07	1.29	y	43:26	1.18	389	-	-	*	
13C-PCB-167	1.33e+08	1.32	y	43:25	1.13	1680				85.8
PCB-156	8.97e+07	1.27	y	44:40	1.24	1050	-	-	*	
13C-PCB-156	1.34e+08	1.30	y	44:39	1.06	1800				91.9
PCB-157	1.90e+07	1.27	y	44:55	1.18	235	-	-	*	
13C-PCB-157	1.34e+08	1.30	y	44:54	1.07	1800				91.8
PCB-169	*	*	n	NotFnd	1.12	*	1260	1420	0.355	
13C-PCB-169	1.37e+08	1.28	y	46:46	1.00	1960				100

PCB-188	6.05e+05	1.07	y	39:44	1.03	9.34		-	-	*	
13C-PCB-188	1.23e+08	1.07	y	39:43	1.26	1400					71.2
PCB-184	2.26e+05	1.07	y	40:09	1.18	3.10	J	-	-	*	
PCB-179	5.88e+07	1.04	y	40:53	1.11	857		-	-	*	
PCB-176	1.87e+07	1.04	y	41:20	1.08	281		-	-	*	
PCB-186	*	*	n	NotFnd	1.08	*		2650	1080	0.558	
PCB-178	2.14e+07	1.06	y	42:22	0.74	467		-	-	*	
PCB-175	4.16e+06	1.01	y	42:42	0.76	89.1		-	-	*	
PCB-187	1.33e+08	1.04	y	42:50	0.82	2620		-	-	*	Co-elute PCB 182
PCB-182	1.33e+08	1.04	y	42:50	0.82	2620		-	-	*	Co-elute PCB 187
PCB-183	6.22e+07	1.05	y	43:10	0.80	1270		-	-	*	
PCB-185	1.03e+07	1.05	y	43:46	0.71	238		-	-	*	
PCB-174	9.39e+07	1.05	y	44:08	0.73	2090		-	-	*	
PCB-181	*	*	n	NotFnd	0.66	*		2650	1080	0.916	
PCB-177	5.83e+07	1.05	y	44:22	0.64	1470		-	-	*	
PCB-171	2.76e+07	1.05	y	44:39	0.69	653		-	-	*	
PCB-173	2.04e+06	1.00	y	45:04	0.62	53.6		-	-	*	
PCB-172	1.57e+07	1.04	y	45:28	0.64	401		-	-	*	
PCB-192	*	*	n	NotFnd	0.84	*		2650	1080	0.718	
PCB-180	2.06e+08	1.04	y	45:48	0.65	5170		-	-	*	
PCB-193	1.40e+07	1.04	y	45:58	0.90	254		-	-	*	
PCB-191	5.08e+06	1.07	y	46:11	0.83	99.0		-	-	*	
PCB-170	8.76e+07	1.06	y	47:05	0.60	2370		-	-	*	
PCB-190	2.40e+07	1.04	y	47:15	0.85	462		-	-	*	
PCB-189	4.68e+06	0.98	y	48:26	1.06	73.0		-	-	*	
13C-PCB-189	1.18e+08	1.06	y	48:26	0.96	1760					90.0
PCB-202	1.06e+07	0.91	y	44:50	1.03	188		-	-	*	
PCB-201	7.58e+06	0.89	y	45:17	1.09	127		-	-	*	
PCB-204	*	*	n	NotFnd	1.05	*		880	1230	0.401	
PCB-197	2.40e+06	0.93	y	45:41	1.09	39.9		-	-	*	
PCB-200	6.73e+06	0.93	y	46:26	1.04	118		-	-	*	
PCB-198	2.40e+06	0.84	y	47:37	0.70	62.3		-	-	*	
PCB-199	3.67e+07	0.90	y	47:42	0.70	959		-	-	*	
PCB-203	4.21e+07	0.90	y	47:56	0.83	925		-	-	*	Co-elute PCB 196
PCB-196	4.21e+07	0.90	y	47:56	0.83	925		-	-	*	Co-elute PCB 203
13C-PCB-202	1.08e+08	0.91	y	44:49	0.89	1740					88.6
13C-PCB-178	8.26e+07	1.05	y	42:21	0.78	1510					77.0
13C-PCB-138	1.37e+08	1.28	y	46:46	-	49.3					
PCB-195	1.70e+07	0.90	y	49:03	0.67	411		-	-	*	
PCB-194	3.85e+07	0.89	y	49:51	0.84	747		-	-	*	
PCB-205	2.76e+06	0.88	y	50:06	1.06	42.4		-	-	*	
13C-PCB-205	1.21e+08	0.90	y	50:06	1.30	2120					108
PCB-208	4.09e+06	1.34	y	49:10	1.09	68.6		-	-	*	
13C-PCB-208	1.08e+08	0.81	y	49:10	1.05	2340					119
PCB-207	2.37e+06	1.34	y	49:28	1.22	41.5		-	-	*	
PCB-206	1.22e+07	1.34	y	51:20	1.08	290		-	-	*	
13C-PCB-206	7.59e+07	0.80	y	51:18	0.89	1940					98.8
PCB-209	4.07e+06	1.18	y	52:31	1.14	80.9		-	-	*	
13C-PCB-209	8.65e+07	1.20	y	52:30	1.10	1780					90.8
13C-PCB-194	8.62e+07	0.91	y	49:51	-	32.3					

Analyst: _____ Date: 9/20/19

File:24JUL19Z #1-783 Acq:24-JUL-2019 15:55:37 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:12532-002-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-783 Acq:24-JUL-2019 15:55:37 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
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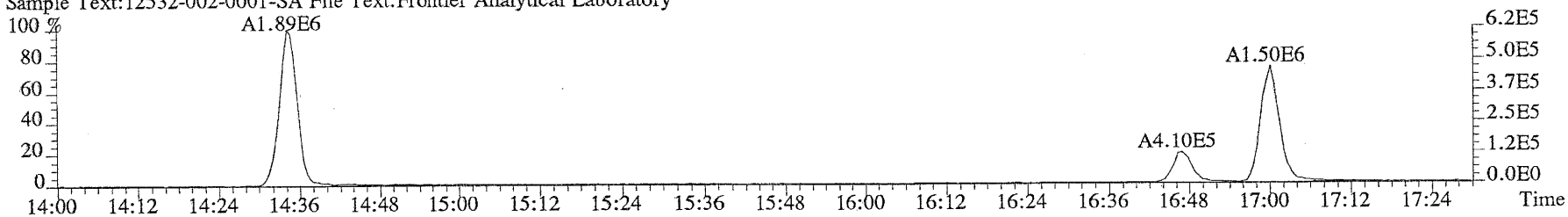

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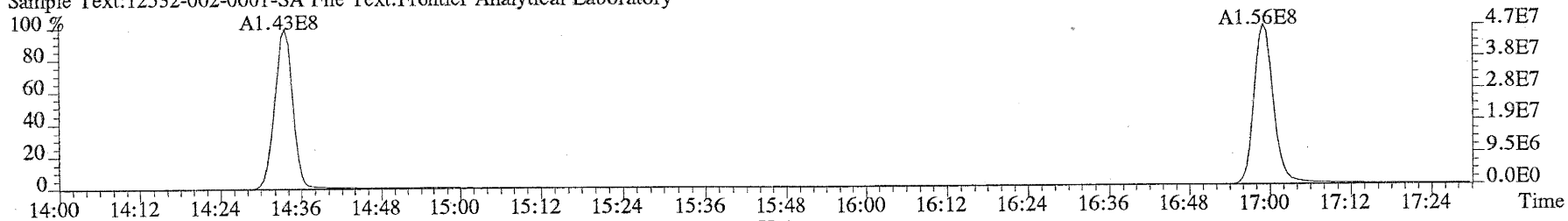

File:24JUL19Z #1-783 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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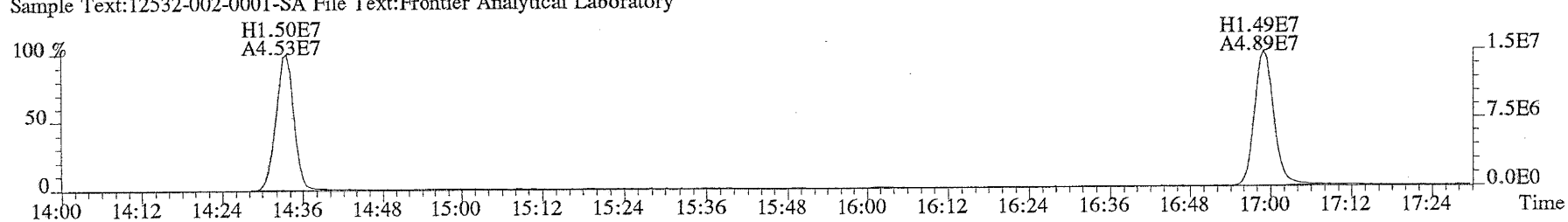
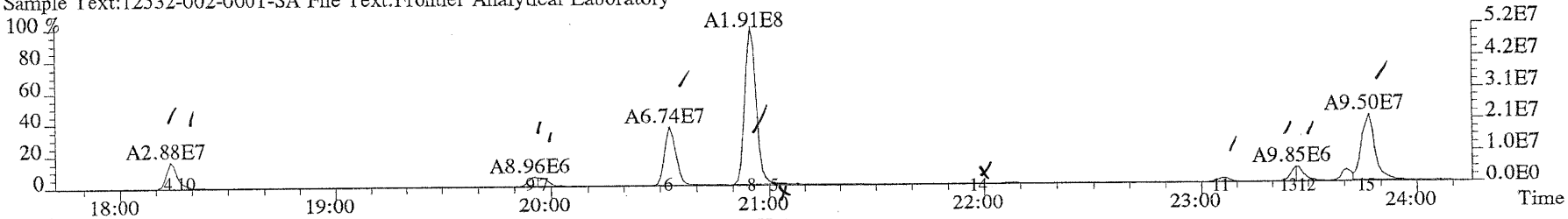
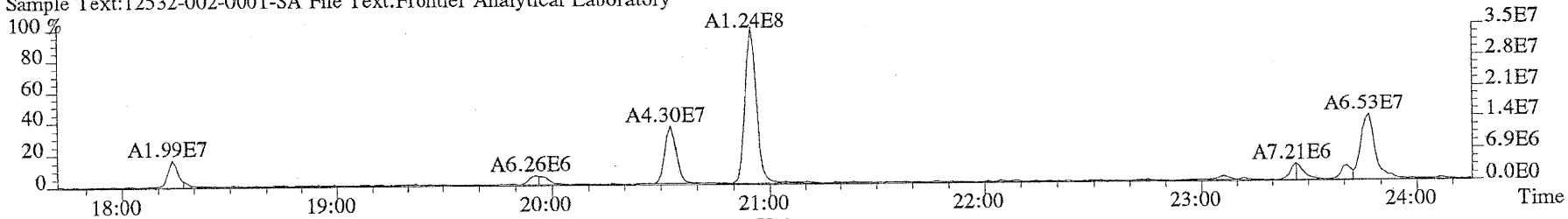


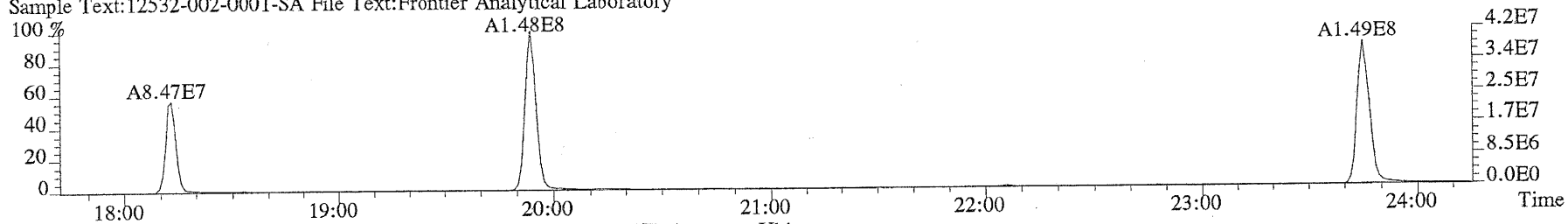
File:24JUL19Z #1-520 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



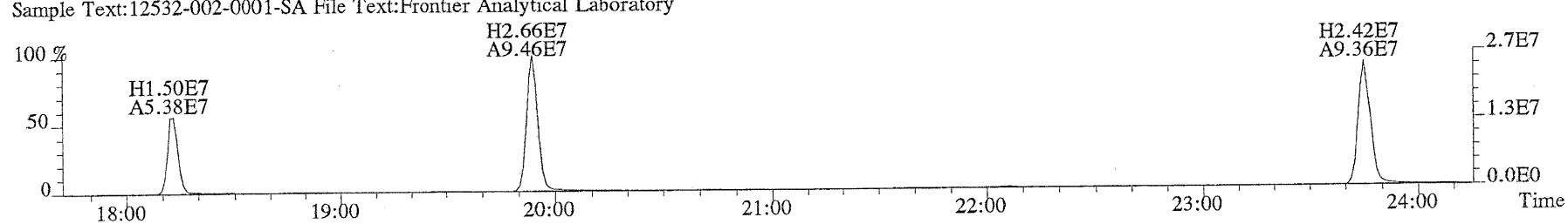
File:24JUL19Z #1-520 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



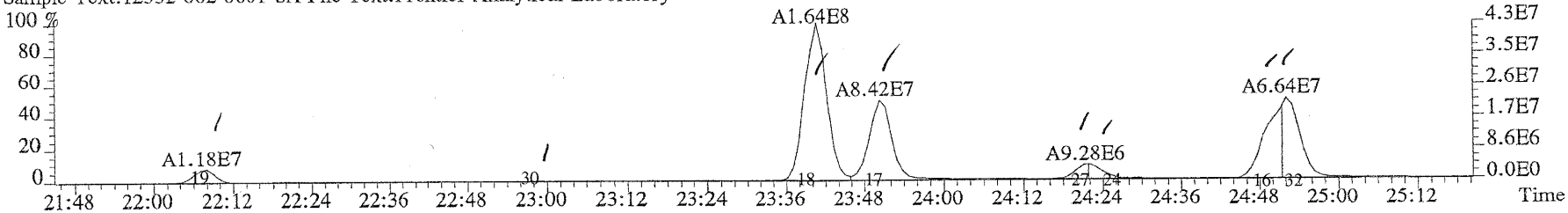
File:24JUL19Z #1-520 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



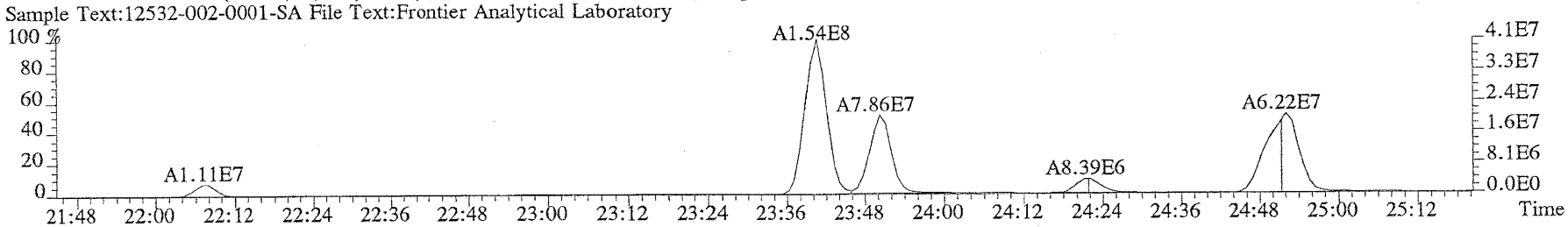
File:24JUL19Z #1-520 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



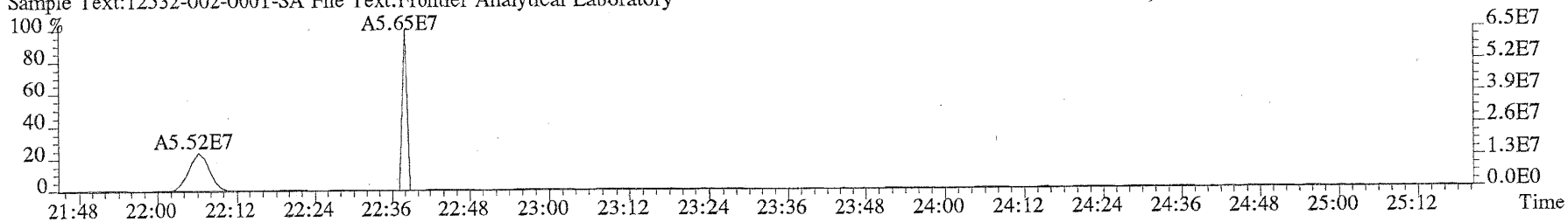
File:24JUL19Z #1-520 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



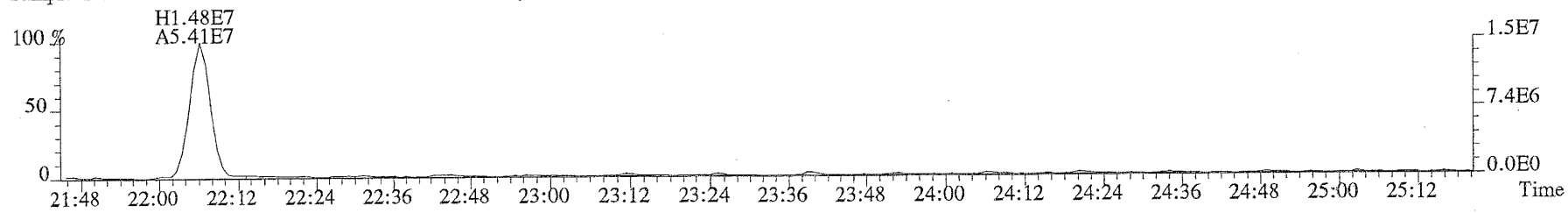
File:24JUL19Z #1-520 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



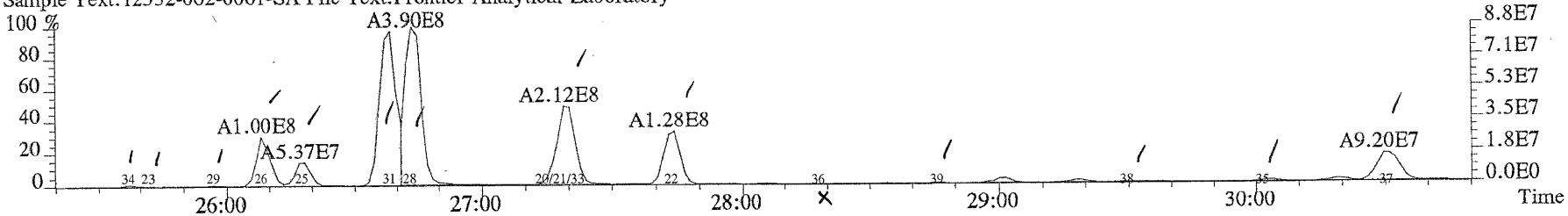
File:24JUL19Z #1-520 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



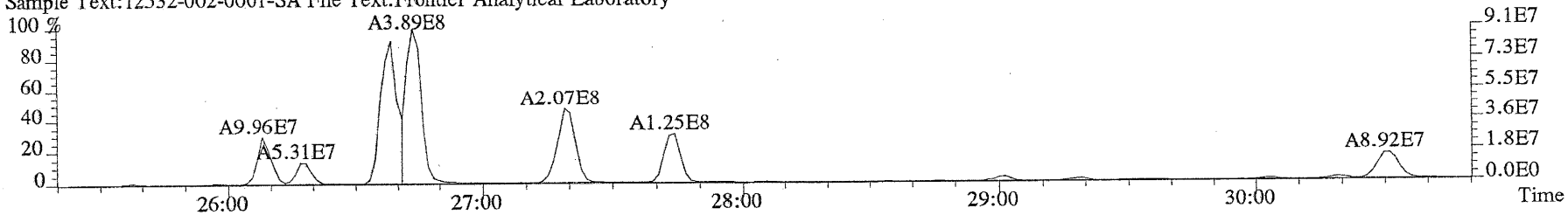
File:24JUL19Z #1-520 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



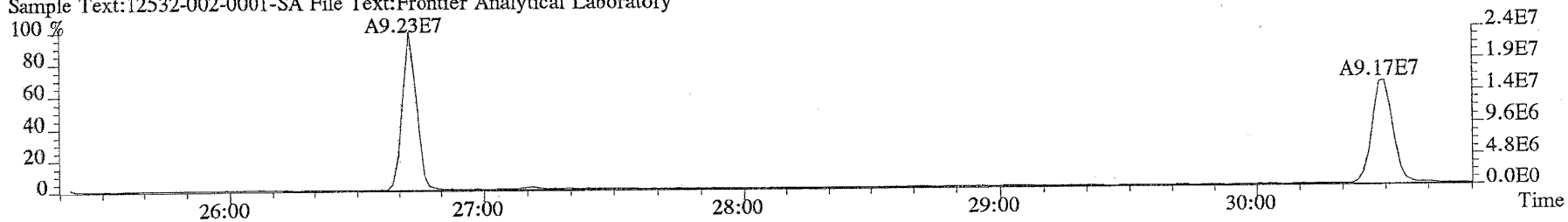
File:24JUL19Z #1-401 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



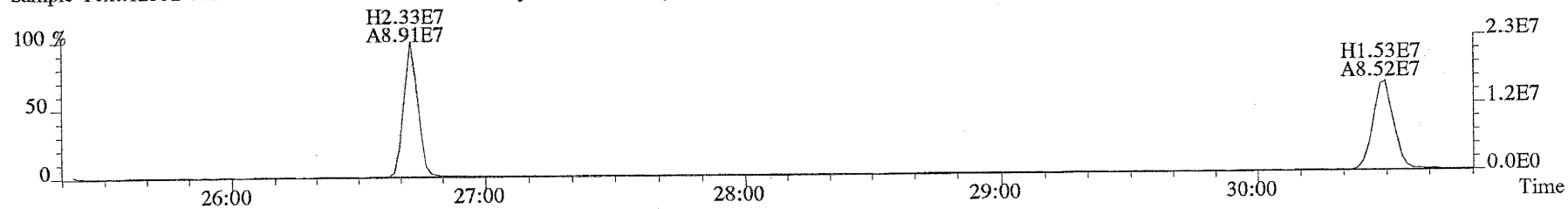
File:24JUL19Z #1-401 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



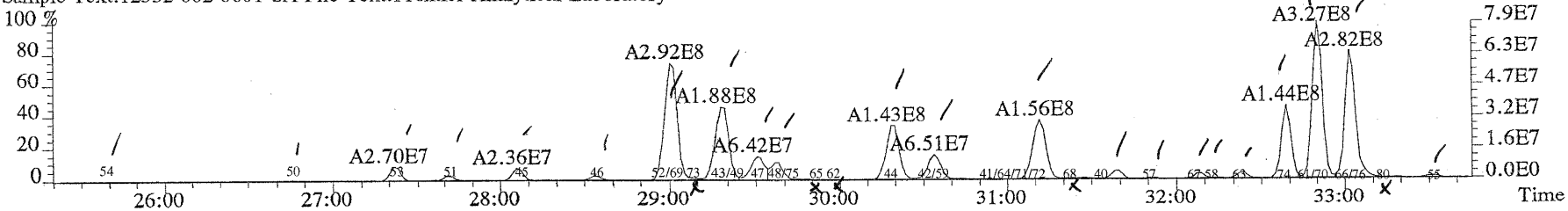
File:24JUL19Z #1-401 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



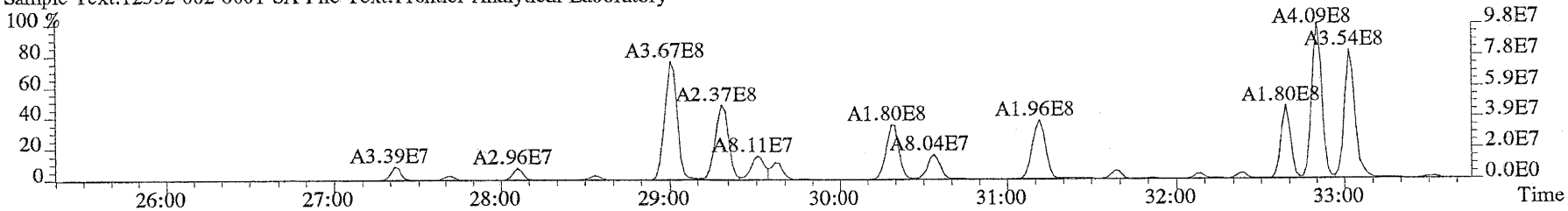
File:24JUL19Z #1-401 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



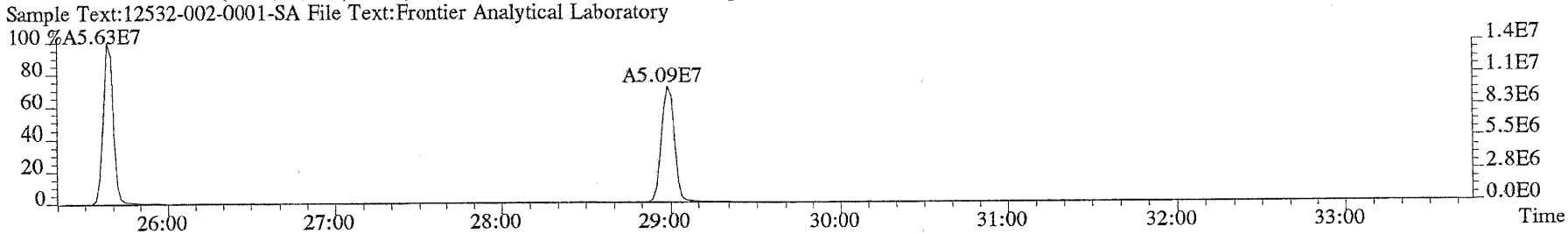
File:24JUL19Z #1-401 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



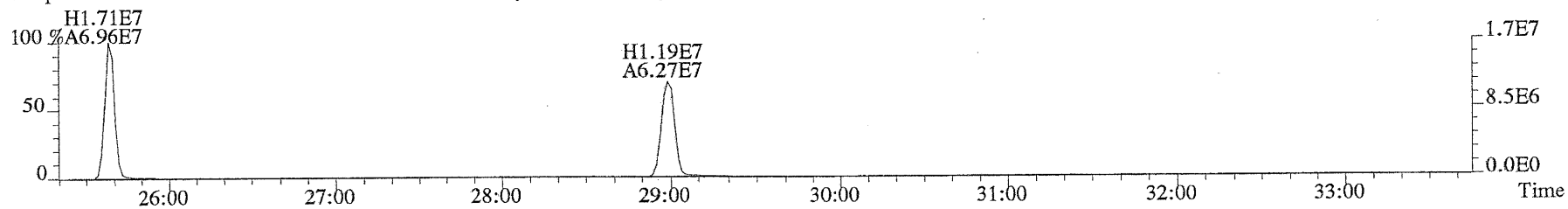
File:24JUL19Z #1-401 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



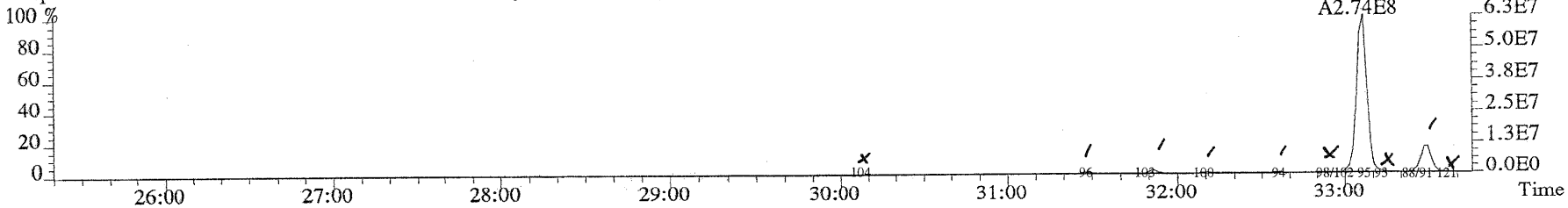
File:24JUL19Z #1-401 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



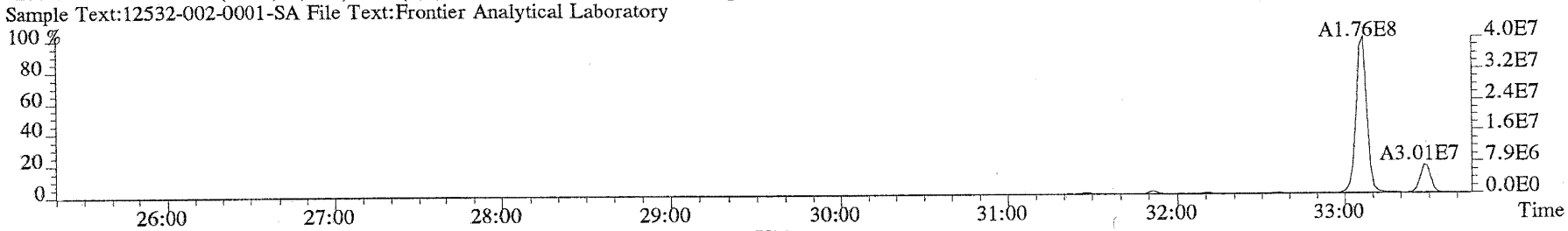
File:24JUL19Z #1-401 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



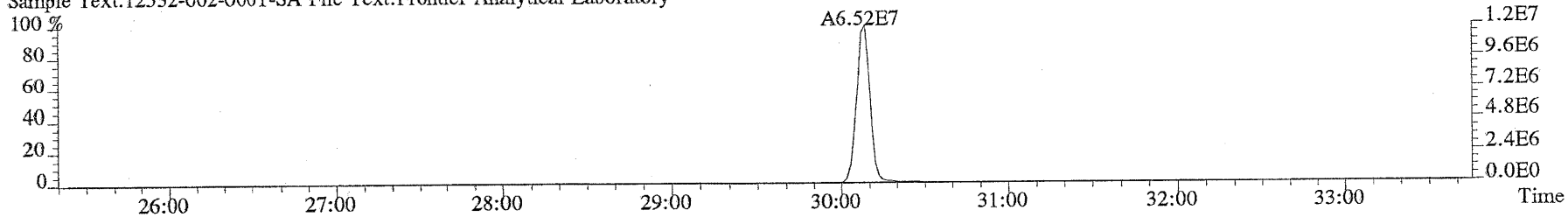
File:24JUL19Z #1-401 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



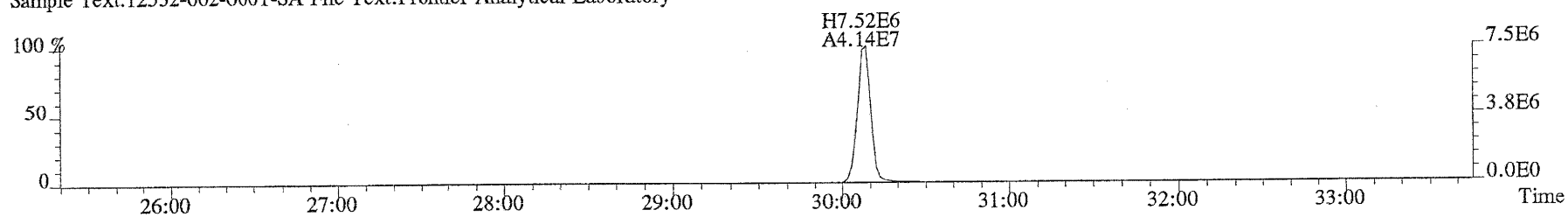
File:24JUL19Z #1-401 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



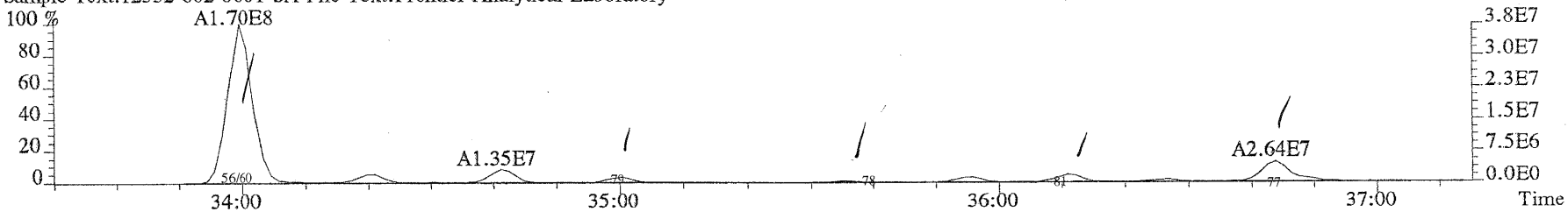
File:24JUL19Z #1-401 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



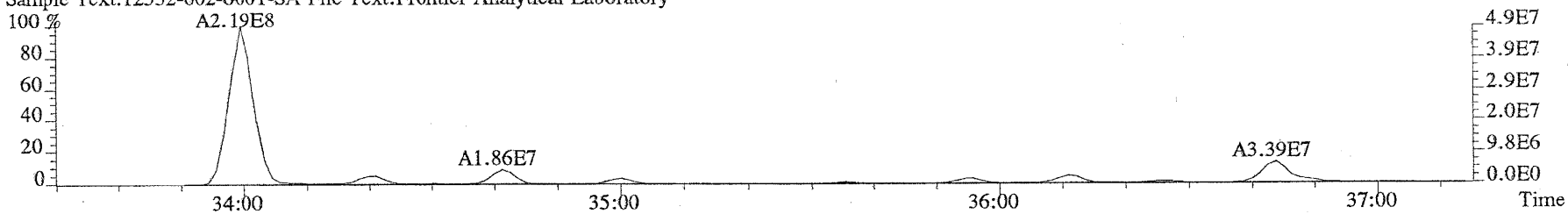
File:24JUL19Z #1-401 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



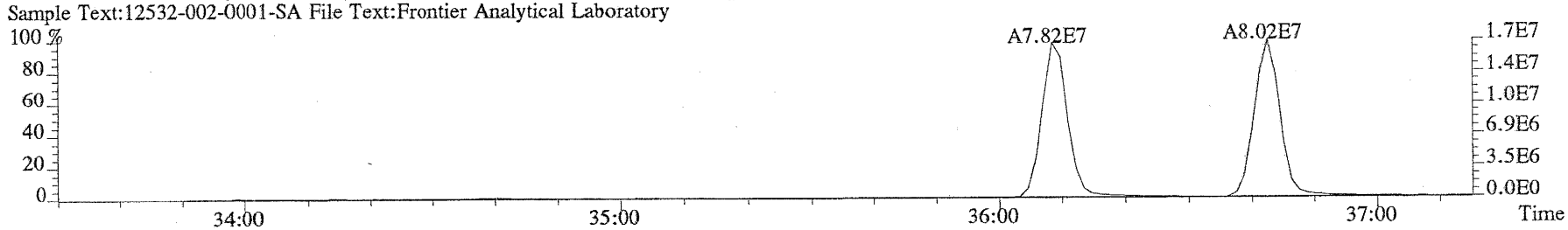
File:24JUL19Z #1-181 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



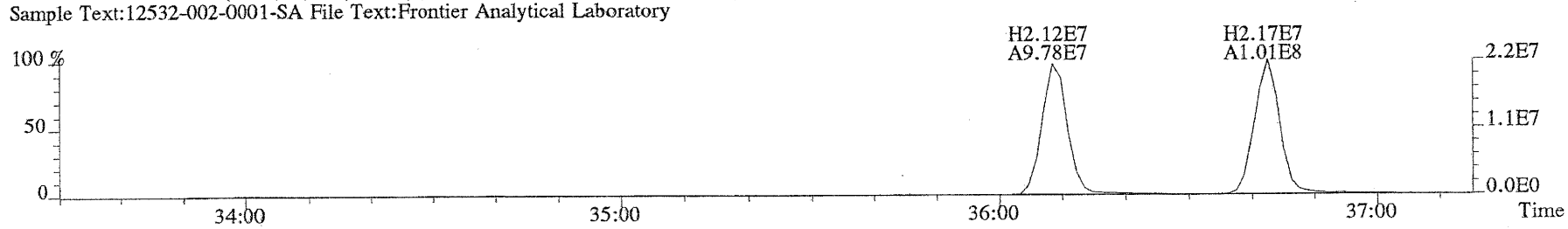
File:24JUL19Z #1-181 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



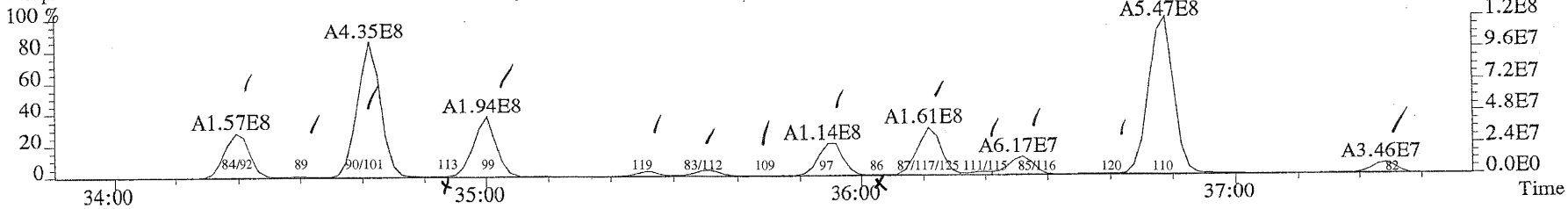
File:24JUL19Z #1-181 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



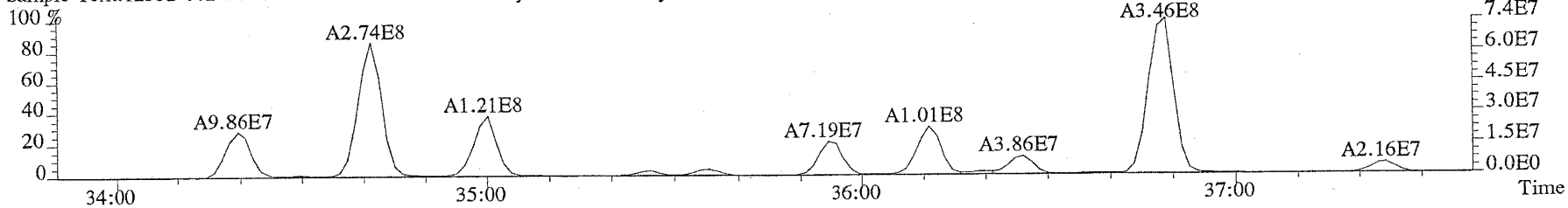
File:24JUL19Z #1-181 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



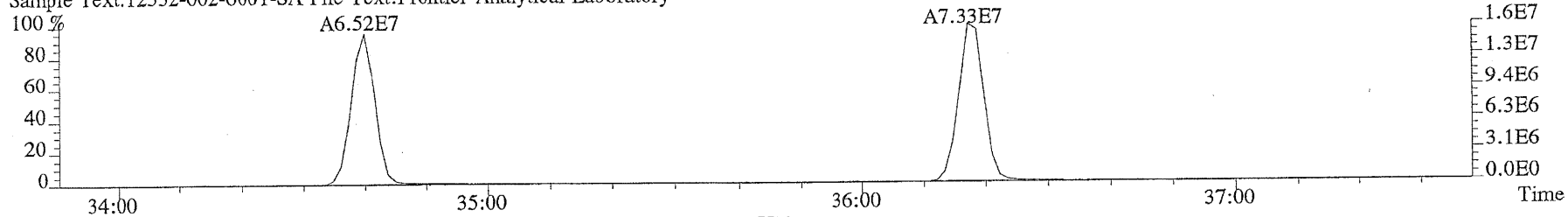
File:24JUL19Z #1-181 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



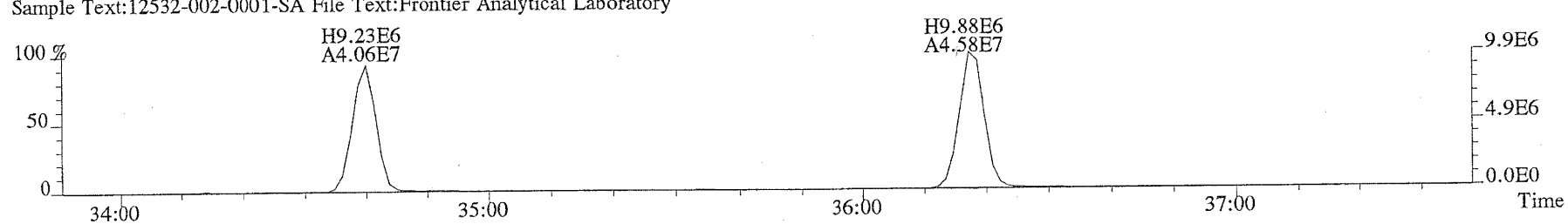
File:24JUL19Z #1-181 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



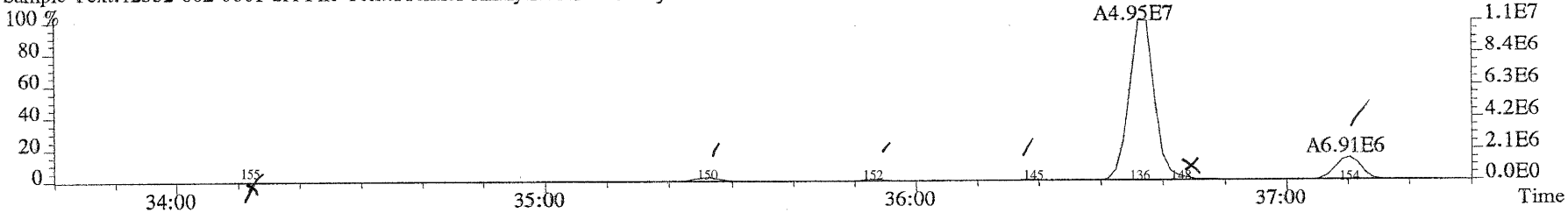
File:24JUL19Z #1-181 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



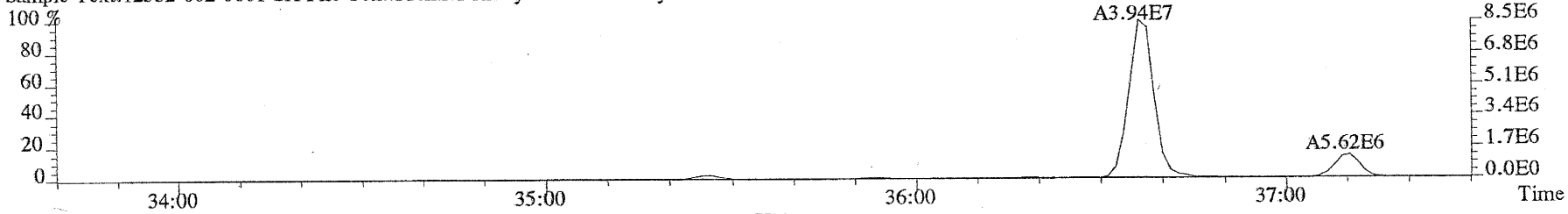
File:24JUL19Z #1-181 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



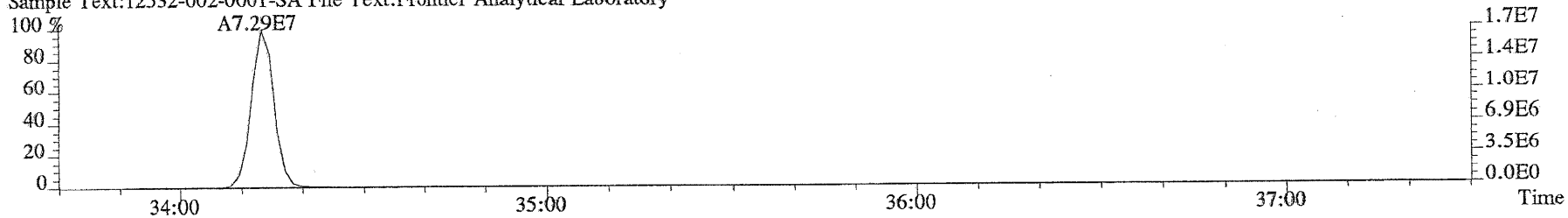
File:24JUL19Z #1-181 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



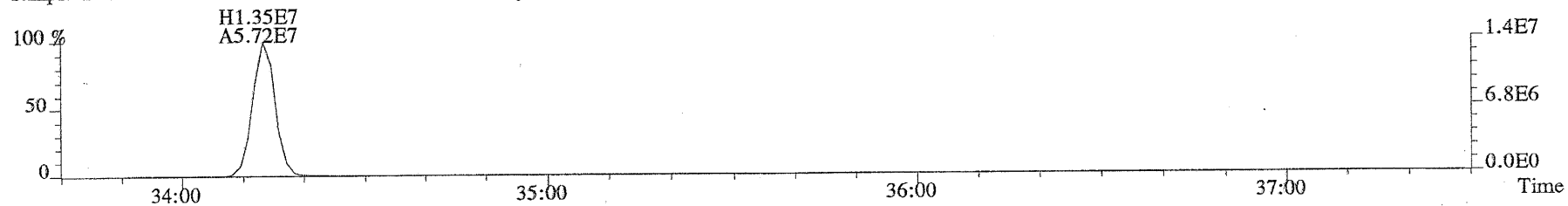
File:24JUL19Z #1-181 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



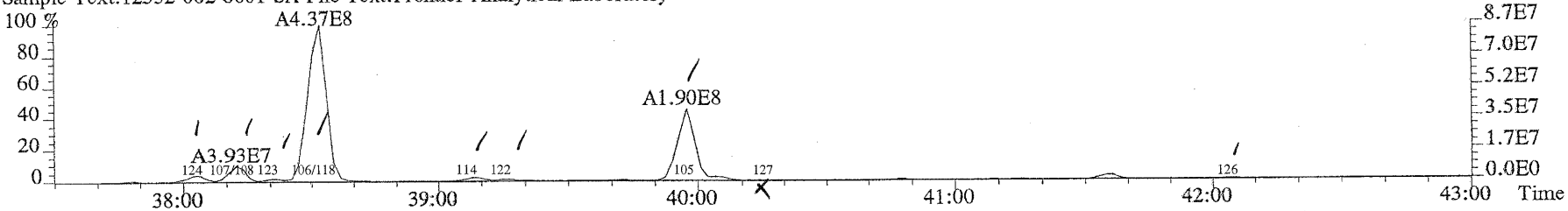
File:24JUL19Z #1-181 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



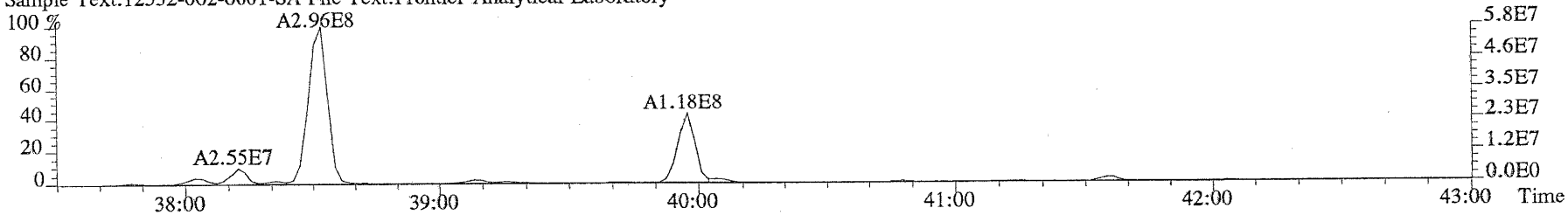
File:24JUL19Z #1-181 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



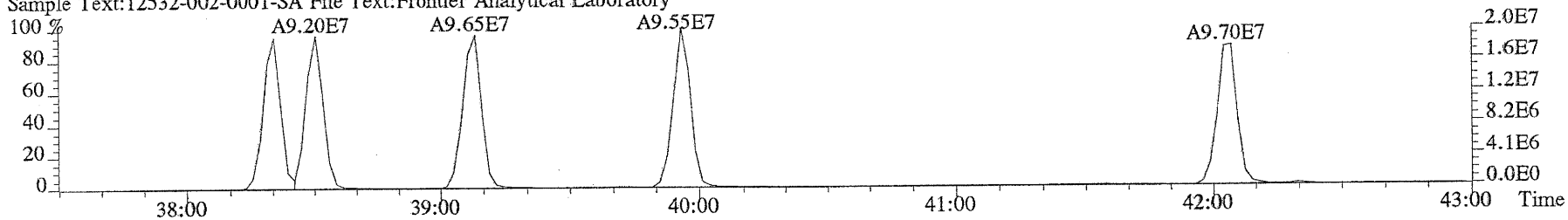
File:24JUL19Z #1-405 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



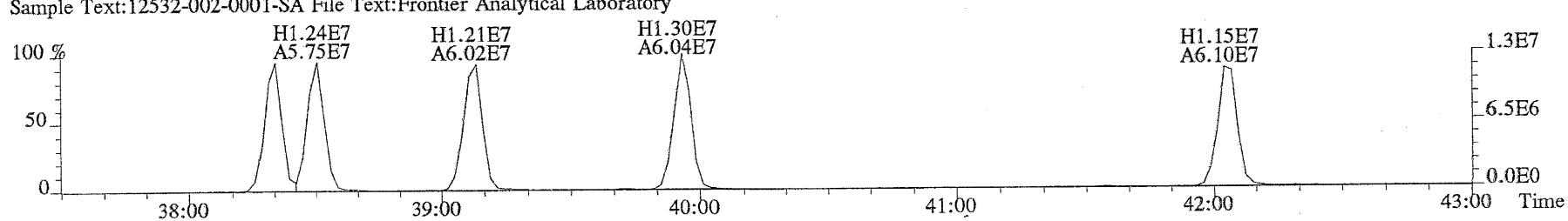
File:24JUL19Z #1-405 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



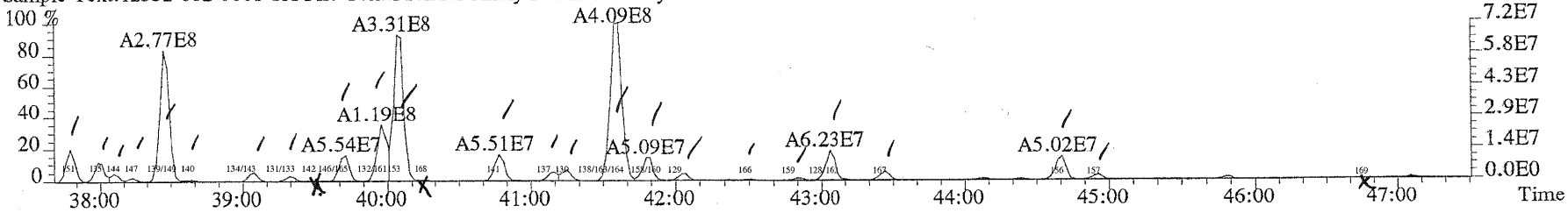
File:24JUL19Z #1-405 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



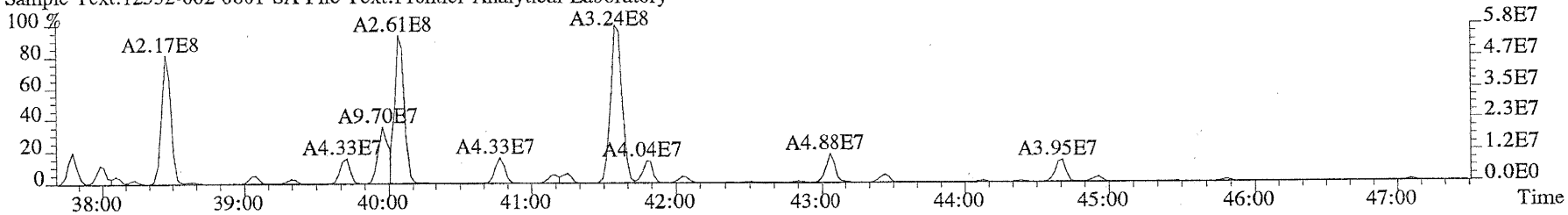
File:24JUL19Z #1-405 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



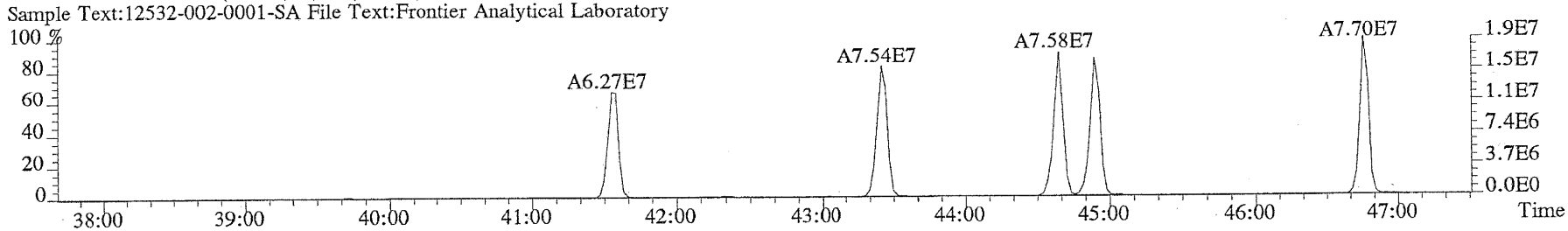
File:24JUL19Z #1-405 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



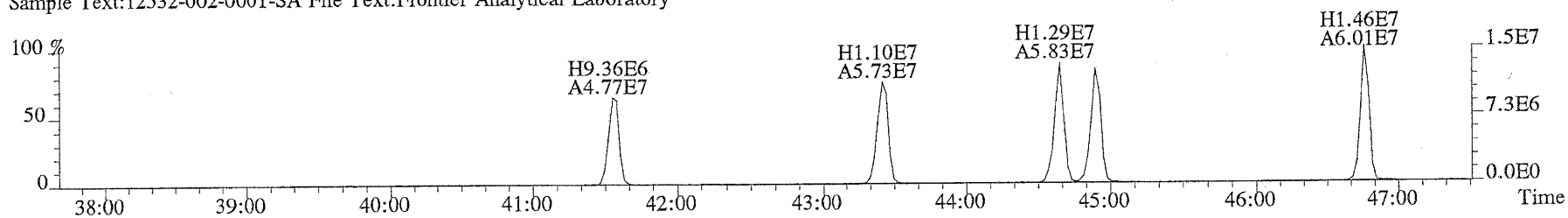
File:24JUL19Z #1-405 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



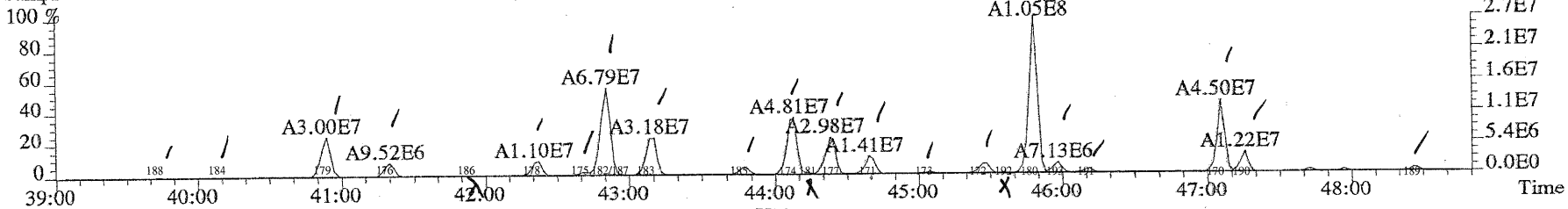
File:24JUL19Z #1-405 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



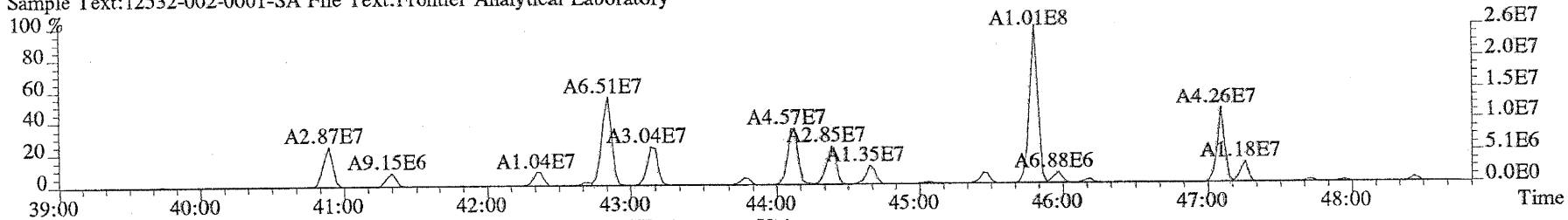
File:24JUL19Z #1-405 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



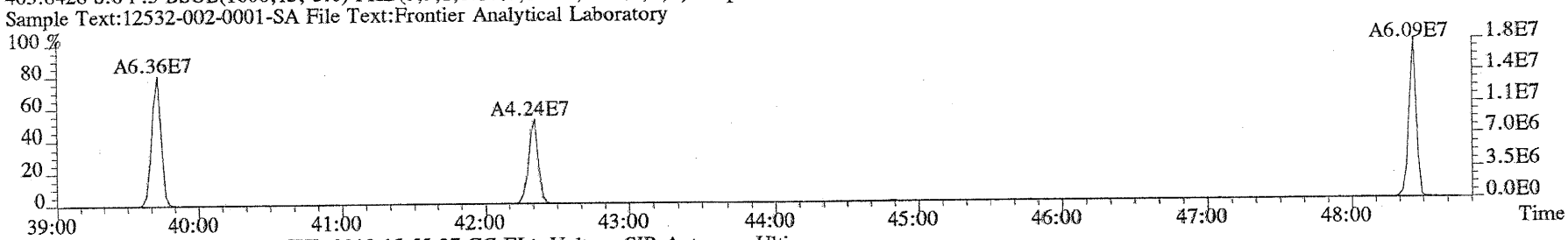
File:24JUL19Z #1-405 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



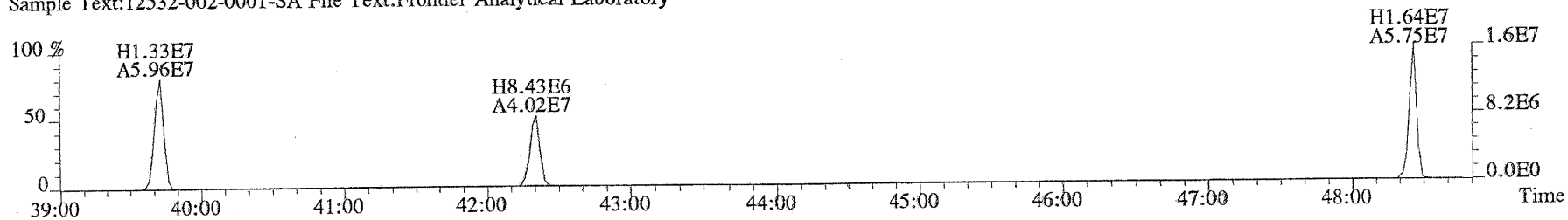
File:24JUL19Z #1-405 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



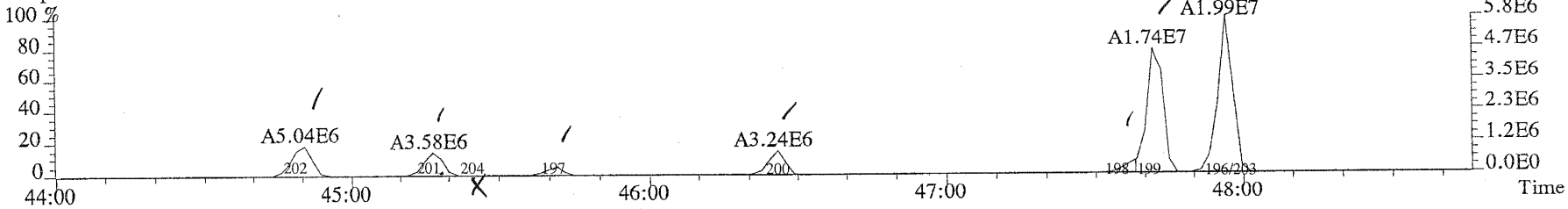
File:24JUL19Z #1-405 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



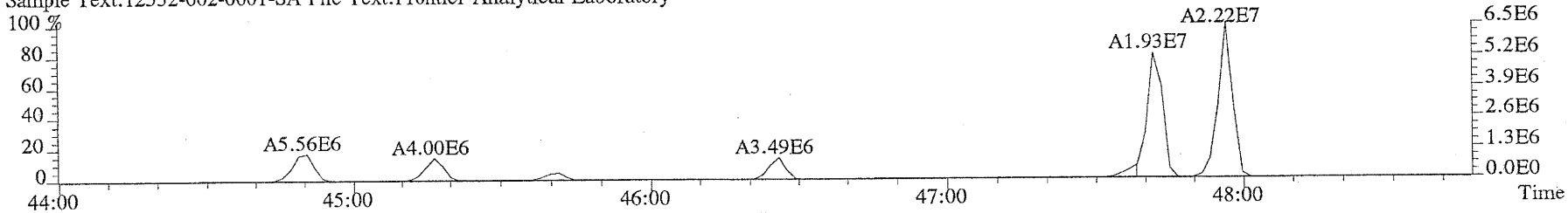
File:24JUL19Z #1-405 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



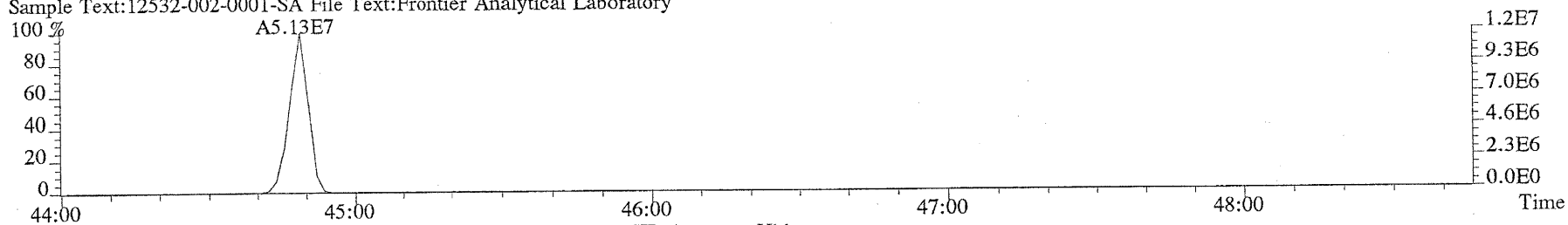
File:24JUL19Z #1-405 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



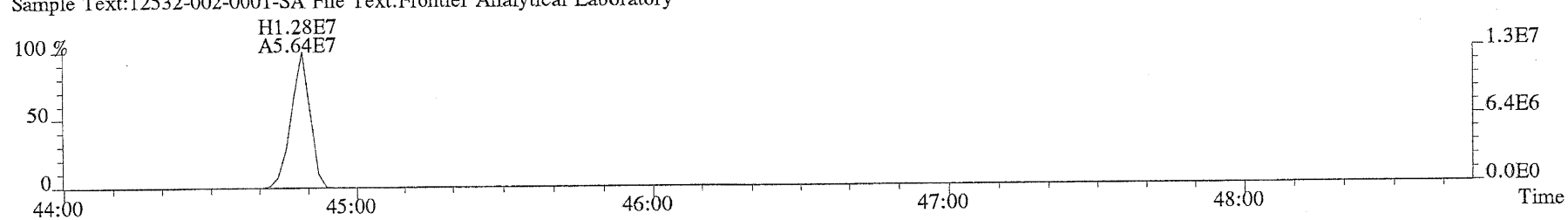
File:24JUL19Z #1-405 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



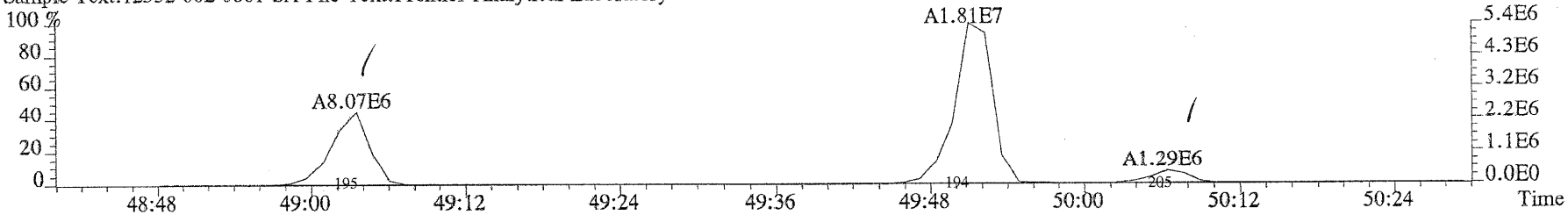
File:24JUL19Z #1-405 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



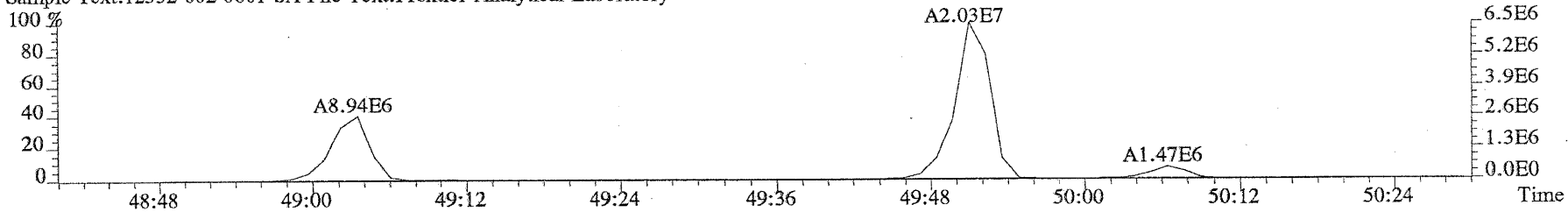
File:24JUL19Z #1-405 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



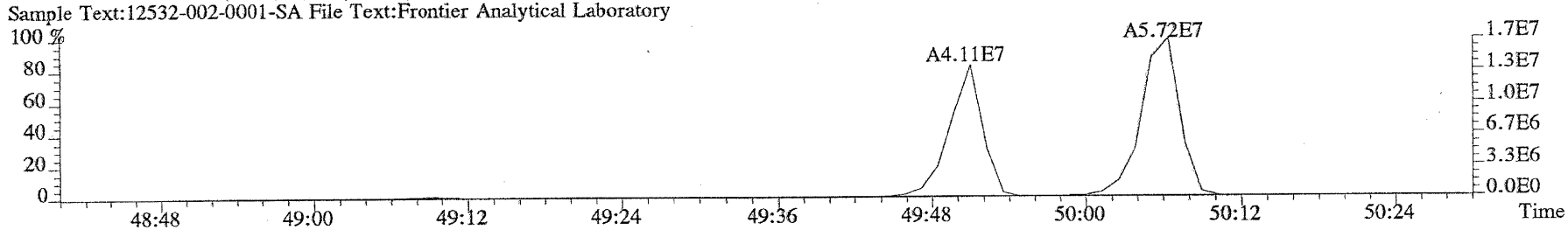
File:24JUL19Z #1-315 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



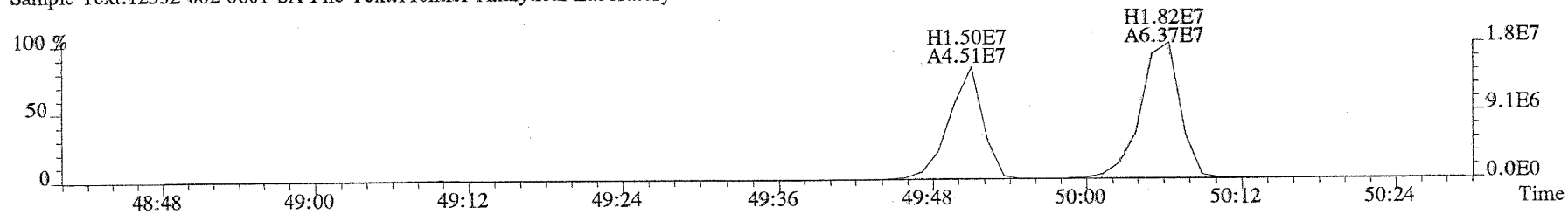
File:24JUL19Z #1-315 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



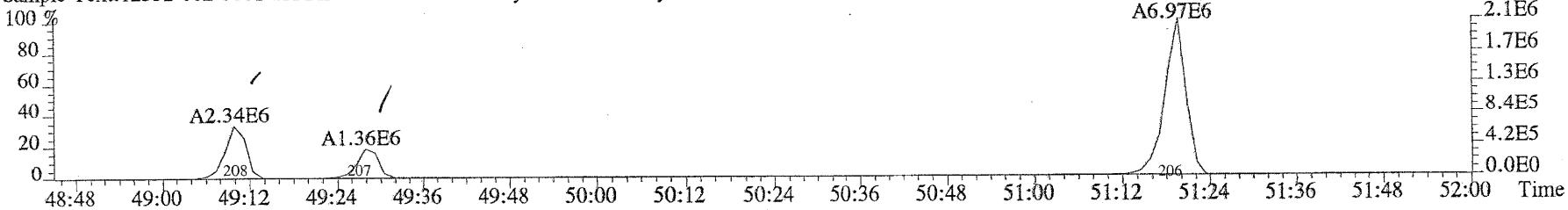
File:24JUL19Z #1-315 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



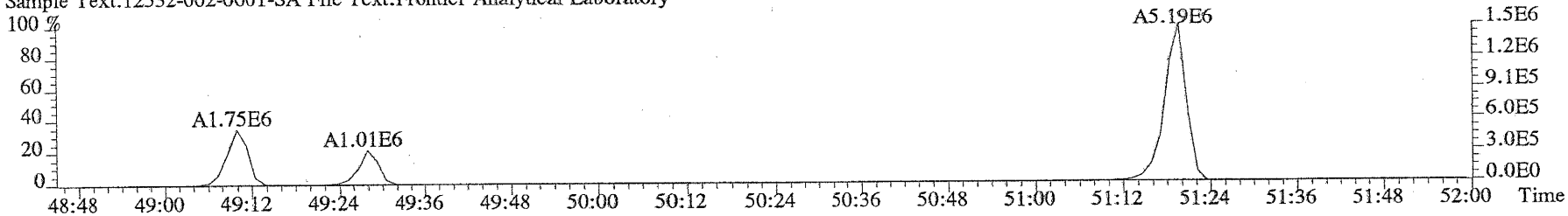
File:24JUL19Z #1-315 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



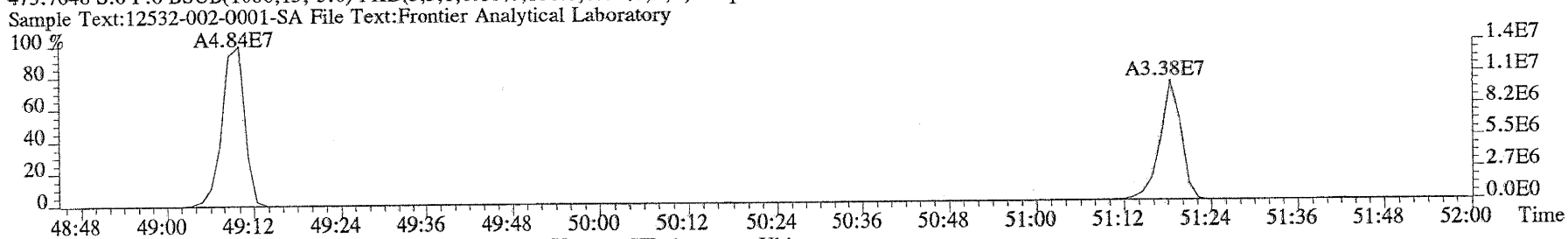
File:24JUL19Z #1-315 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



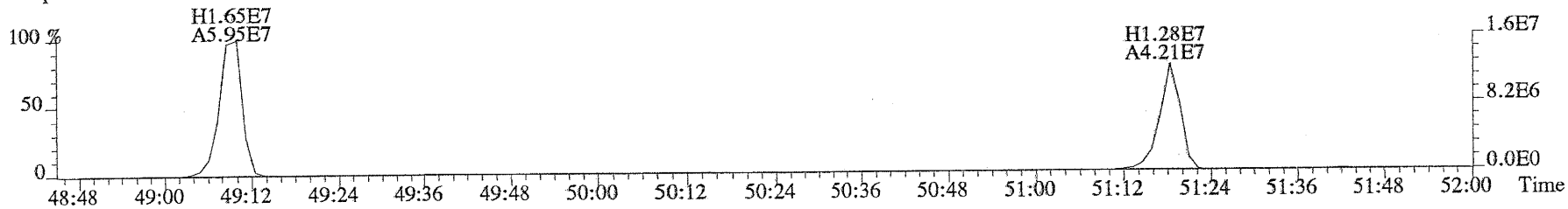
File:24JUL19Z #1-315 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



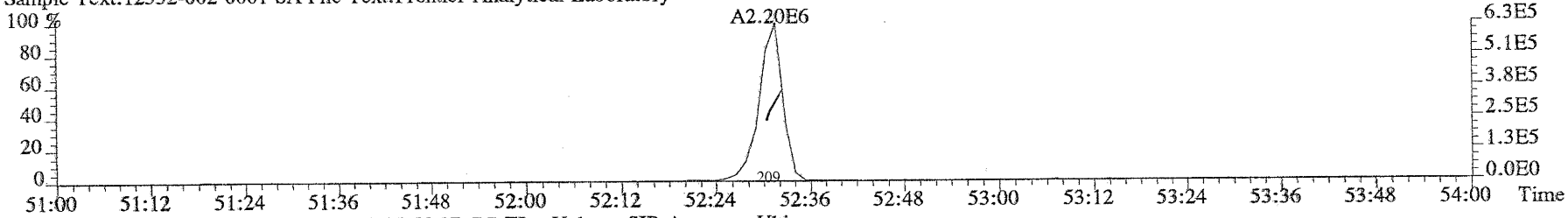
File:24JUL19Z #1-315 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



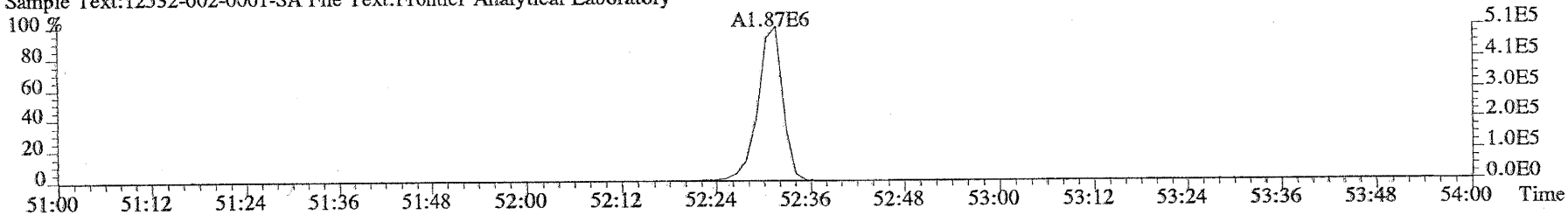
File:24JUL19Z #1-315 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



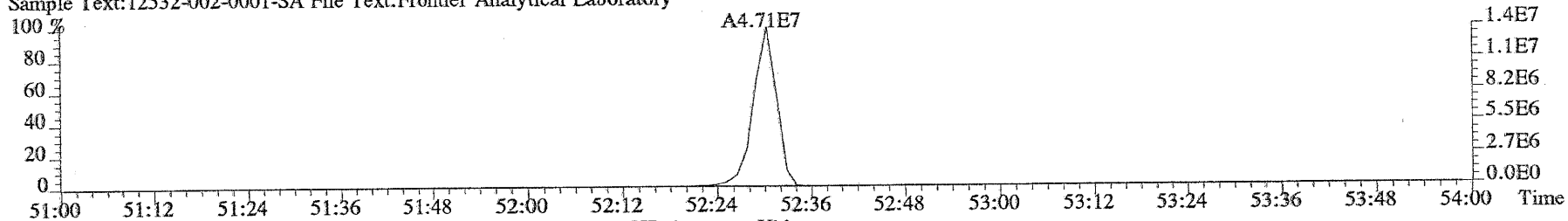
File:24JUL19Z #1-315 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



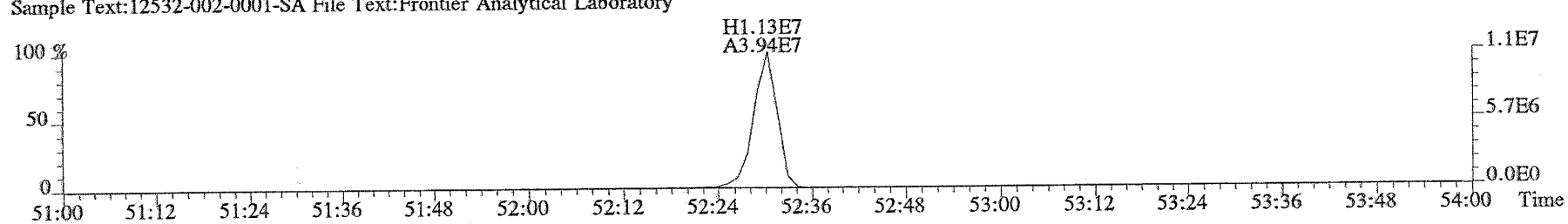
File:24JUL19Z #1-315 Acq:24-JUL-2019 15:55:37 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-002-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 15:55:37 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:12532-002-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 15:55:37 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:12532-002-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12532-003-0001-SA Filename: 24JUL19Z Sam:7 Acquired: 24-JUL-19 16:53:59 ICal: DAILYFAL4-7-24-19
Client ID: LDW-Y2-SU-ENR-CC-CORE ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 5.050

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	9.60e+05	3.05 y	14:33	1.19	7.28		-	-	*	
13C-PCB-1	2.19e+08	3.13 y	14:33	0.82	1950					98.4
PCB-2	2.05e+05	3.17 y	16:46	1.22	1.50	J	-	-	*	
PCB-3	7.70e+05	2.78 y	16:59	1.21	5.57		-	-	*	
13C-PCB-3	2.26e+08	3.14 y	16:58	0.85	1940					98.0
PCB-4	4.86e+06	1.56 y	18:13	1.14	55.1		-	-	*	
PCB-10	7.49e+05	1.57 y	18:16	1.32	5.34		-	-	*	
13C-PCB-4	1.53e+08	1.59 y	18:12	0.63	1790					90.3
PCB-9	1.75e+06	1.52 y	19:54	1.39	11.9		-	-	*	
PCB-7	1.56e+06	1.43 y	19:56	1.42	10.4		-	-	*	
PCB-6	8.00e+06	1.50 y	20:31	1.39	54.4		-	-	*	
PCB-8	3.50e+07	1.38 y	20:53	1.41	234		-	-	*	
PCB-5	*	* n	NotFnd	1.37	*		1260	4550	0.367	
PCB-14	*	* n	NotFnd	1.31	*		1260	4550	0.386	
PCB-11	1.74e+06	1.48 y	23:04	1.23	13.4		-	-	*	
PCB-13	1.76e+06	1.47 y	23:25	1.26	13.2		-	-	*	
PCB-12	1.44e+06	1.61 y	23:26	1.26	10.8		-	-	*	
PCB-15	2.12e+07	1.42 y	23:45	1.16	136		-	-	*	
13C-PCB-15	2.66e+08	1.59 y	23:44	0.96	2020					102
PCB-19	2.73e+06	1.03 y	22:07	1.16	37.9		-	-	*	
PCB-30	*	* n	NotFnd	1.82	*		4260	1530	0.460	
PCB-18	3.10e+07	1.06 y	23:38	1.20	417		-	-	*	
PCB-17	1.52e+07	1.06 y	23:49	1.30	188		-	-	*	
PCB-27	2.19e+06	1.04 y	24:20	1.77	19.9		-	-	*	
PCB-24	2.08e+06	1.12 y	24:21	1.77	18.9		-	-	*	
PCB-16	1.30e+07	1.05 y	24:50	1.48	141		-	-	*	
PCB-32	1.21e+07	1.06 y	24:51	1.48	131		-	-	*	
13C-PCB-19	1.23e+08	1.06 y	22:05	0.45	2000					101
13C-PCB-9	2.71e+08	1.60 y	19:53	-	31.5					
PCB-34	4.41e+05	1.05 y	25:36	1.16	3.61	J	-	-	*	
PCB-23	9.78e+04	0.97 y	25:40	1.33	0.701	J	-	-	*	
PCB-29	5.28e+05	1.08 y	25:55	1.33	3.80	J	-	-	*	
PCB-26	1.44e+07	1.00 y	26:07	1.27	108		-	-	*	
PCB-25	8.42e+06	1.01 y	26:16	1.22	65.7		-	-	*	
PCB-31	6.65e+07	1.02 y	26:36	1.20	529		-	-	*	
PCB-28	8.65e+07	1.04 y	26:43	1.55	532		-	-	*	
PCB-20	4.24e+07	1.01 y	27:18	1.23	329		-	-	*	Co-elute PCB 21/33
PCB-21	4.24e+07	1.01 y	27:18	1.23	329		-	-	*	Co-elute PCB 20/33
PCB-33	4.24e+07	1.01 y	27:18	1.23	329		-	-	*	Co-elute PCB 20/21
PCB-22	2.47e+07	1.00 y	27:42	1.37	172		-	-	*	
PCB-36	*	* n	NotFnd	1.27	*		10200	3250	0.955	
PCB-39	*	* n	NotFnd	1.24	*		10200	3250	0.978	
PCB-38	4.99e+05	1.00 y	29:30	1.27	3.74	J	-	-	*	
PCB-35	1.09e+06	1.03 y	30:01	1.12	9.29		-	-	*	
PCB-37	2.35e+07	1.02 y	30:25	1.17	192		-	-	*	
13C-PCB-37	2.08e+08	1.08 y	30:24	1.46	2250					114

PCB-54	1.48e+05	0.87	y	25:38	1.26	1.58	J	-	-	*	
PCB-50	1.71e+05	0.77	y	26:44	0.99	2.33	J	-	-	*	
PCB-53	5.72e+06	0.78	y	27:21	0.98	78.6		-	-	*	
PCB-51	2.01e+06	0.83	y	27:40	1.01	26.7		-	-	*	
PCB-45	5.33e+06	0.79	y	28:05	0.83	86.2		-	-	*	
PCB-46	2.04e+06	0.77	y	28:31	0.81	34.0		-	-	*	
PCB-52	5.08e+07	0.80	y	28:58	1.05	650		-	-	*	Co-elute PCB 69
PCB-69	5.08e+07	0.80	y	28:58	1.05	650		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.20	*		3710	4410	0.889	
PCB-43	3.24e+07	0.79	y	29:16	0.91	480		-	-	*	Co-elute PCB 49
PCB-49	3.24e+07	0.79	y	29:16	0.91	480		-	-	*	Co-elute PCB 43
PCB-47	1.26e+07	0.80	y	29:28	0.92	185		-	-	*	
PCB-48	9.03e+06	0.79	y	29:35	1.19	102		-	-	*	Co-elute PCB 75
PCB-75	9.03e+06	0.79	y	29:35	1.19	102		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.20	*		3710	4410	0.890	
PCB-62	*	*	n	NotFnd	1.16	*		3710	4410	0.923	
PCB-44	2.90e+07	0.80	y	30:14	0.78	502		-	-	*	
PCB-42	1.40e+07	0.81	y	30:26	1.01	187		-	-	*	Co-elute PCB 59
PCB-59	1.40e+07	0.81	y	30:26	1.01	187		-	-	*	Co-elute PCB 42
PCB-72	3.83e+07	0.80	y	30:59	1.14	451		-	-	*	Co-elute PCB 41/71/64
PCB-41	3.83e+07	0.80	y	30:59	1.14	451		-	-	*	Co-elute PCB 72/71/64
PCB-71	3.83e+07	0.80	y	30:59	1.14	451		-	-	*	Co-elute PCB 72/41/64
PCB-64	3.83e+07	0.80	y	30:59	1.14	451		-	-	*	Co-elute PCB 72/41/71
PCB-68	6.36e+05	0.76	y	31:13	1.33	6.47		-	-	*	
PCB-40	5.02e+06	0.79	y	31:25	0.71	95.6		-	-	*	
PCB-57	3.82e+05	0.78	y	31:45	1.21	4.24		-	-	*	
PCB-67	1.97e+06	0.82	y	32:03	1.19	22.4		-	-	*	
PCB-58	2.43e+05	0.72	y	32:09	1.22	2.68	J	-	-	*	
PCB-63	2.16e+06	0.78	y	32:19	1.22	23.9		-	-	*	
PCB-74	2.61e+07	0.79	y	32:35	1.22	289		-	-	*	
PCB-61	6.13e+07	0.79	y	32:47	1.10	750		-	-	*	Co-elute PCB 70
PCB-70	6.13e+07	0.79	y	32:47	1.10	750		-	-	*	Co-elute PCB 61
PCB-76	5.44e+07	0.78	y	32:58	1.25	587		-	-	*	Co-elute PCB 66
PCB-66	5.44e+07	0.78	y	32:58	1.25	587		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.40	*		3710	4410	0.766	
PCB-55	1.44e+06	0.80	y	33:29	1.22	15.9		-	-	*	
13C-PCB-54	1.47e+08	0.82	y	25:37	1.21	1910					96.7
PCB-104	*	*	n	NotFnd	1.12	*		1040	1160	0.299	
PCB-96	4.99e+05	1.50	y	31:15	1.06	7.31		-	-	*	
PCB-103	6.13e+05	1.65	y	31:45	0.86	11.0		-	-	*	
PCB-100	2.51e+05	1.67	y	32:05	0.86	4.54		-	-	*	
PCB-94	2.24e+05	1.69	y	32:32	0.72	4.84		-	-	*	
PCB-98	*	*	n	NotFnd	0.78	*		1040	1160	0.427	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.78	*		1040	1160	0.427	Co-elute PCB 98
PCB-95	3.54e+07	1.57	y	33:03	0.73	750		-	-	*	
PCB-93	*	*	n	NotFnd	0.72	*		1040	1160	0.461	
PCB-88	6.53e+06	1.55	y	33:26	0.84	120		-	-	*	Co-elute PCB 91
PCB-91	6.53e+06	1.55	y	33:26	0.84	120		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.95	*		1040	1160	0.352	
13C-PCB-104	1.28e+08	1.58	y	30:05	1.00	2010					102
13C-PCB-28	2.18e+08	1.04	y	26:40	1.75	1970					99.4
13C-PCB-52	1.25e+08	0.81	y	28:57	-	31.0					

PCB-56	3.51e+07	0.77	y	33:57	1.14	366			-	-	*	Co-elute PCB 60
PCB-60	3.51e+07	0.77	y	33:57	1.14	366			-	-	*	Co-elute PCB 56
PCB-79	1.02e+06	0.80	y	34:58	1.24	9.68			-	-	*	
PCB-78	3.00e+05	0.75	y	35:33	1.20	2.98	J		-	-	*	
PCB-81	1.75e+06	0.77	y	36:09	1.21	17.4			-	-	*	
13C-PCB-81	1.64e+08	0.80	y	36:06	1.53	2110						107
PCB-77	5.91e+06	0.78	y	36:42	1.04	66.0			-	-	*	
13C-PCB-77	1.70e+08	0.80	y	36:40	1.54	2170						110
PCB-155	*	*	n	NotFnd	1.05	*		1380	752	0.315	
PCB-150	1.49e+05	1.17	y	35:23	0.95	2.33	J		-	-	*	
PCB-152	7.09e+04	1.38	y	35:51	0.93	1.14	J		-	-	*	
PCB-145	4.99e+04	1.17	y	36:16	0.93	0.798	J		-	-	*	
PCB-136	7.92e+06	1.28	y	36:35	0.84	142			-	-	*	
PCB-148	*	*	n	NotFnd	0.75	*		1380	752	0.444	
PCB-154	8.67e+05	1.24	y	37:08	0.77	16.7			-	-	*	
13C-PCB-155	1.33e+08	1.27	y	34:11	1.35	1920						97.1
13C-PCB-111	1.13e+08	1.59	y	36:15	1.21	1840						92.8
13C-PCB-101	1.01e+08	1.59	y	34:37	-	31.2						
PCB-84	1.81e+07	1.55	y	34:18	0.85	292			-	-	*	Co-elute PCB 92
PCB-92	1.81e+07	1.55	y	34:18	0.85	292			-	-	*	Co-elute PCB 84
PCB-89	6.99e+05	1.57	y	34:28	0.79	12.0			-	-	*	
PCB-90	5.26e+07	1.59	y	34:39	0.92	783			-	-	*	Co-elute PCB 101
PCB-101	5.26e+07	1.59	y	34:39	0.92	783			-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*		2680	2490	0.683	
PCB-99	2.31e+07	1.54	y	34:58	0.96	329			-	-	*	
PCB-119	1.68e+06	1.60	y	35:23	1.17	19.6			-	-	*	
PCB-83	2.43e+06	1.51	y	35:33	0.92	36.1			-	-	*	Co-elute PCB 112
PCB-112	2.43e+06	1.51	y	35:33	0.92	36.1			-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.09	*		2680	2490	0.685	
PCB-97	1.32e+07	1.59	y	35:52	0.75	241			-	-	*	
PCB-86	*	*	n	NotFnd	0.83	*		2680	2490	0.898	
PCB-125	2.06e+07	1.62	y	36:09	1.00	281			-	-	*	Co-elute PCB 87/117
PCB-87	2.06e+07	1.62	y	36:09	1.00	281			-	-	*	Co-elute PCB 125/117
PCB-117	2.06e+07	1.62	y	36:09	1.00	281			-	-	*	Co-elute PCB 125/87
PCB-111	1.33e+06	1.54	y	36:18	1.12	16.1			-	-	*	Co-elute PCB 115
PCB-115	1.33e+06	1.54	y	36:18	1.12	16.1			-	-	*	Co-elute PCB 111
PCB-85	8.15e+06	1.54	y	36:24	0.98	113			-	-	*	Co-elute PCB 116
PCB-116	8.15e+06	1.54	y	36:24	0.98	113			-	-	*	Co-elute PCB 85
PCB-120	2.93e+05	1.59	y	36:37	1.21	3.29	J		-	-	*	
PCB-110	6.76e+07	1.61	y	36:47	1.12	823			-	-	*	
PCB-82	4.61e+06	1.62	y	37:22	0.65	96.4			-	-	*	
PCB-124	3.04e+06	1.49	y	38:01	1.16	35.7			-	-	*	
PCB-108	4.98e+06	1.49	y	38:11	1.12	61.0			-	-	*	Co-elute PCB 107
PCB-107	4.98e+06	1.49	y	38:11	1.12	61.0			-	-	*	Co-elute PCB 108
PCB-123	1.22e+06	1.52	y	38:19	0.97	18.0			-	-	*	
13C-PCB-123	1.38e+08	1.59	y	38:18	1.48	1430						72.3
PCB-118	6.43e+07	1.50	y	38:29	1.06	789			-	-	*	Co-elute PCB 106
PCB-106	6.43e+07	1.50	y	38:29	1.06	789			-	-	*	Co-elute PCB 118
13C-PCB-118	1.53e+08	1.60	y	38:28	1.54	1520						76.5
PCB-114	1.87e+06	1.53	y	39:07	1.07	23.6			-	-	*	
13C-PCB-114	1.47e+08	1.60	y	39:06	1.46	1540						77.5
PCB-122	9.81e+05	1.43	y	39:14	1.09	12.3			-	-	*	
PCB-105	2.60e+07	1.54	y	39:55	1.14	316			-	-	*	
13C-PCB-105	1.43e+08	1.60	y	39:55	1.40	1560						78.9

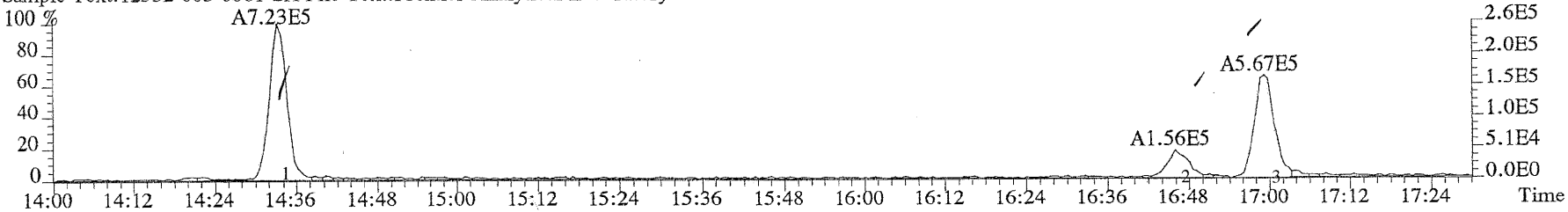
PCB-127	*	*	n	NotFnd	1.00	*	2860	3150	0.868	
PCB-126	3.54e+05	1.55	y	42:03	1.10	4.80	-	-	*	
13C-PCB-126	1.33e+08	1.60	y	42:02	1.32	1540				77.7
PCB-151	1.12e+07	1.27	y	37:45	1.10	162	-	-	*	
PCB-135	6.65e+06	1.28	y	37:58	1.01	104	-	-	*	
PCB-144	2.68e+06	1.24	y	38:05	1.25	33.9	-	-	*	
PCB-147	1.19e+06	1.26	y	38:11	1.15	16.3	-	-	*	
PCB-139	4.32e+07	1.30	y	38:26	1.18	581	-	-	*	Co-elute PCB 149
PCB-149	4.32e+07	1.30	y	38:26	1.18	581	-	-	*	Co-elute PCB 139
PCB-140	5.46e+05	1.38	y	38:36	1.16	7.44	-	-	*	
PCB-143	2.69e+06	1.30	y	39:02	0.96	44.4	-	-	*	Co-elute PCB 134
PCB-134	2.69e+06	1.30	y	39:02	0.96	44.4	-	-	*	Co-elute PCB 143
PCB-131	1.55e+06	1.28	y	39:19	0.94	26.0	-	-	*	Co-elute PCB 133
PCB-133	1.55e+06	1.28	y	39:19	0.94	26.0	-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.99	*	3020	2210	0.872	
PCB-165	8.76e+06	1.29	y	39:40	1.26	110	-	-	*	Co-elute PCB 146
PCB-146	8.76e+06	1.29	y	39:40	1.26	110	-	-	*	Co-elute PCB 165
PCB-161	1.53e+07	1.26	y	39:57	1.15	210	-	-	*	Co-elute PCB 132
PCB-132	1.53e+07	1.26	y	39:57	1.15	210	-	-	*	Co-elute PCB 161
PCB-153	5.91e+07	1.28	y	40:03	1.27	734	-	-	*	
PCB-168	*	*	n	NotFnd	1.35	*	3020	2210	0.636	
PCB-141	9.39e+06	1.24	y	40:44	1.02	146	-	-	*	
PCB-137	2.45e+06	1.25	y	41:07	0.94	41.3	-	-	*	
PCB-130	3.58e+06	1.28	y	41:12	0.89	63.6	-	-	*	
PCB-138	6.58e+07	1.30	y	41:34	1.25	834	-	-	*	Co-elute PCB 163/164
PCB-163	6.58e+07	1.30	y	41:34	1.25	834	-	-	*	Co-elute PCB 138/164
PCB-164	6.58e+07	1.30	y	41:34	1.25	834	-	-	*	Co-elute PCB 138/163
PCB-158	8.26e+06	1.28	y	41:47	1.33	98.1	-	-	*	Co-elute PCB 160
PCB-160	8.26e+06	1.28	y	41:47	1.33	98.1	-	-	*	Co-elute PCB 158
PCB-129	2.27e+06	1.25	y	42:02	0.85	42.0	-	-	*	
PCB-166	3.50e+05	1.29	y	42:28	1.28	4.32	-	-	*	
PCB-159	8.28e+05	1.36	y	42:48	1.37	9.59	-	-	*	
PCB-128	9.60e+06	1.28	y	43:01	1.08	141	-	-	*	Co-elute PCB 162
PCB-162	9.60e+06	1.28	y	43:01	1.08	141	-	-	*	Co-elute PCB 128
PCB-167	2.97e+06	1.27	y	43:24	1.18	40.8	-	-	*	
13C-PCB-167	1.23e+08	1.29	y	43:22	1.13	1660				84.0
PCB-156	8.04e+06	1.24	y	44:38	1.24	103	-	-	*	
13C-PCB-156	1.24e+08	1.31	y	44:36	1.06	1790				90.4
PCB-157	1.78e+06	1.24	y	44:53	1.18	24.0	-	-	*	
13C-PCB-157	1.25e+08	1.31	y	44:51	1.07	1780				90.0
PCB-169	*	*	n	NotFnd	1.12	*	3020	2210	0.706	
13C-PCB-169	1.29e+08	1.29	y	46:43	1.00	1980				100

FAL ID: 12532-003-0001-SA Filename: 24JUL19Z Sam:7 Acquired: 24-JUL-19 16:53:59 ICal: DAILYFAL4-7-24-19
Client ID: LDW-Y2-SU-ENR-CC-CORE ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 5.050

PCB-188	*	*	n	NotFnd	1.03	*	1370	1040	0.443		
13C-PCB-188	1.12e+08	1.05	y	39:40	1.26	1360				68.5	
PCB-184	*	*	n	NotFnd	1.18	*	1370	1040	0.328		
PCB-179	6.36e+06	1.03	y	40:51	1.11	99.5	-	-	*		
PCB-176	2.06e+06	1.05	y	41:17	1.08	33.4	-	-	*		
PCB-186	*	*	n	NotFnd	1.08	*	1370	1040	0.359		
PCB-178	2.18e+06	1.04	y	42:20	0.74	51.1	-	-	*		
PCB-175	4.98e+05	1.01	y	42:40	0.76	11.4	-	-	*		
PCB-187	1.41e+07	1.03	y	42:48	0.82	299	-	-	*	Co-elute PCB 182	
PCB-182	1.41e+07	1.03	y	42:48	0.82	299	-	-	*	Co-elute PCB 187	
PCB-183	7.08e+06	1.06	y	43:08	0.80	155	-	-	*		
PCB-185	1.25e+06	1.02	y	43:45	0.71	30.7	-	-	*		
PCB-174	1.02e+07	1.03	y	44:05	0.73	244	-	-	*		
PCB-181	*	*	n	NotFnd	0.66	*	1370	1040	0.589		
PCB-177	6.27e+06	1.08	y	44:22	0.64	169	-	-	*		
PCB-171	3.19e+06	1.03	y	44:38	0.69	81.0	-	-	*		
PCB-173	2.40e+05	1.08	y	45:03	0.62	6.77	-	-	*		
PCB-172	1.79e+06	1.03	y	45:26	0.64	49.0	-	-	*		
PCB-192	*	*	n	NotFnd	0.84	*	1370	1040	0.462		
PCB-180	2.33e+07	1.06	y	45:47	0.65	628	-	-	*		
PCB-193	1.71e+06	1.01	y	45:57	0.90	33.2	-	-	*		
PCB-191	5.96e+05	0.99	y	46:10	0.83	12.5	-	-	*		
PCB-170	1.02e+07	1.05	y	47:03	0.60	295	-	-	*		
PCB-190	3.06e+06	1.06	y	47:13	0.85	63.2	-	-	*		
PCB-189	6.09e+05	0.99	y	48:25	1.06	9.85	-	-	*		
13C-PCB-189	1.15e+08	1.06	y	48:25	0.96	1840				92.9	
PCB-202	1.36e+06	0.89	y	44:48	1.03	25.9	-	-	*		
PCB-201	9.16e+05	0.91	y	45:16	1.09	16.4	-	-	*		
PCB-204	*	*	n	NotFnd	1.05	*	1230	1350	0.481		
PCB-197	2.93e+05	0.80	y	45:39	1.09	5.23	-	-	*		
PCB-200	9.14e+05	0.90	y	46:25	1.04	17.1	-	-	*		
PCB-198	2.60e+05	0.99	y	47:34	0.70	7.23	-	-	*		
PCB-199	5.10e+06	0.94	y	47:41	0.70	143	-	-	*		
PCB-203	6.06e+06	0.90	y	47:56	0.83	143	-	-	*	Co-elute PCB 196	
PCB-196	6.06e+06	0.90	y	47:56	0.83	143	-	-	*	Co-elute PCB 203	
13C-PCB-202	1.01e+08	0.91	y	44:46	0.89	1750				88.5	
13C-PCB-178	7.71e+07	1.05	y	42:18	0.78	1510				76.2	
13C-PCB-138	1.29e+08	1.29	y	46:43	-	47.0					
PCB-195	2.42e+06	0.88	y	49:01	0.67	54.9	-	-	*		
PCB-194	6.32e+06	0.92	y	49:49	0.84	115	-	-	*		
PCB-205	4.66e+05	0.94	y	50:06	1.06	6.72	-	-	*		
13C-PCB-205	1.30e+08	0.90	y	50:04	1.30	2010				101	
PCB-208	7.44e+05	1.42	y	49:08	1.09	11.7	-	-	*		
13C-PCB-208	1.16e+08	0.82	y	49:08	1.05	2210				112	
PCB-207	3.88e+05	1.36	y	49:26	1.22	6.56	-	-	*		
PCB-206	2.06e+06	1.30	y	51:16	1.08	49.2	-	-	*		
13C-PCB-206	7.68e+07	0.81	y	51:15	0.89	1730				87.3	
PCB-209	1.20e+06	1.22	y	52:29	1.14	21.1	-	-	*		
13C-PCB-209	9.89e+07	1.21	y	52:28	1.10	1800				90.7	
13C-PCB-194	9.87e+07	0.91	y	49:49	-	37.3					

Analyst: _____ Date: 7/25/19

File:24JUL19Z #1-783 Acq:24-JUL-2019 16:53:59 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:12532-003-0001-SA File Text:Frontier Analytical Laboratory



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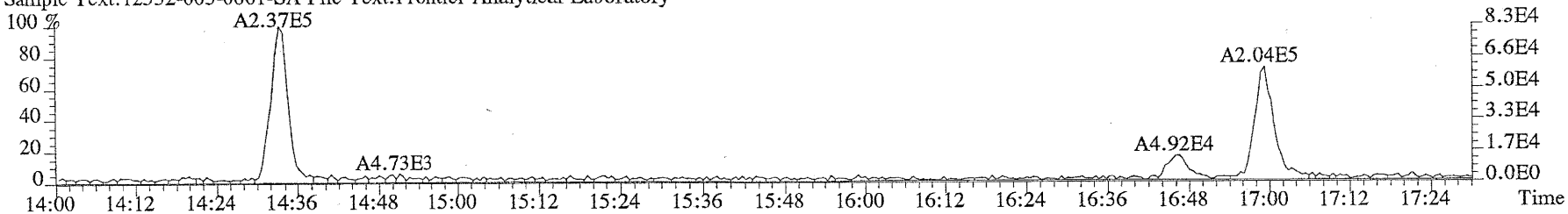
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



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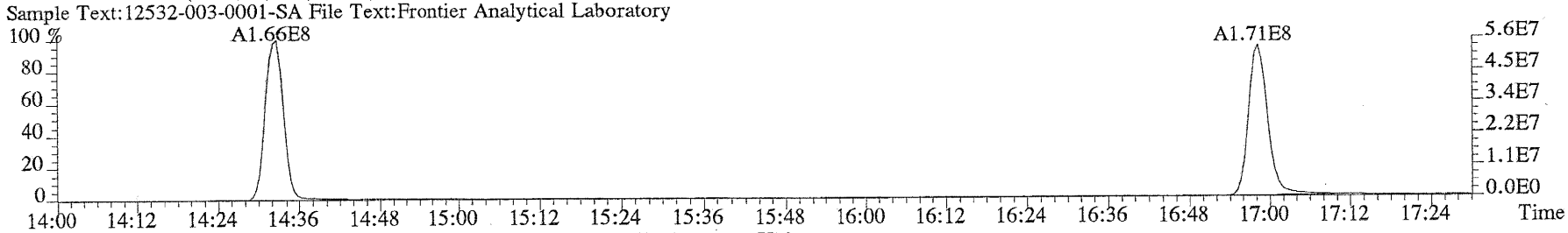
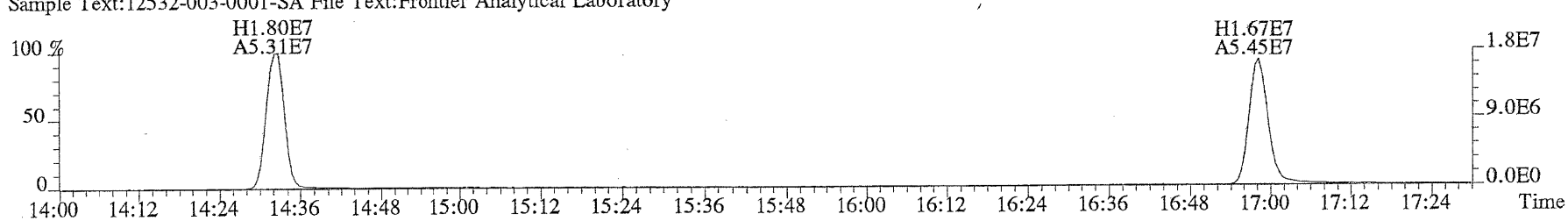
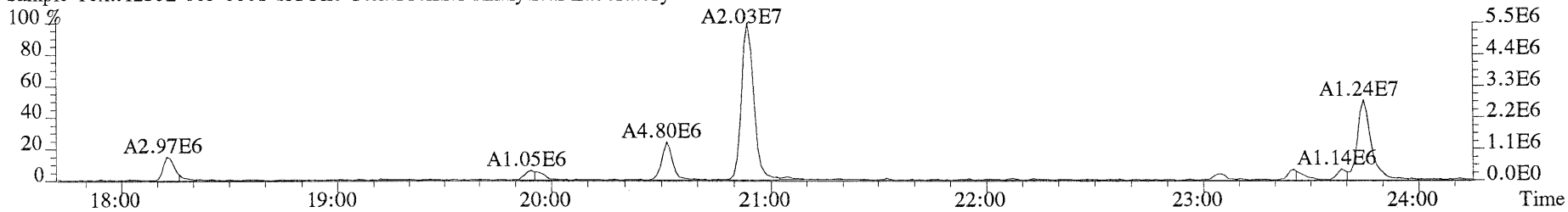
200.0795 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



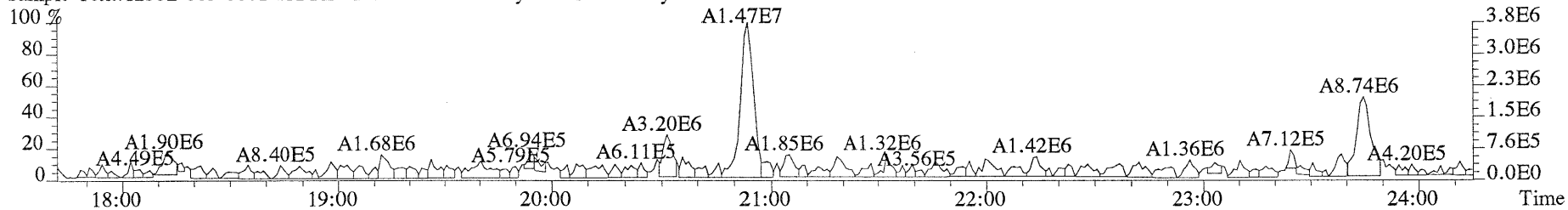
File:24JUL19Z #1-783 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



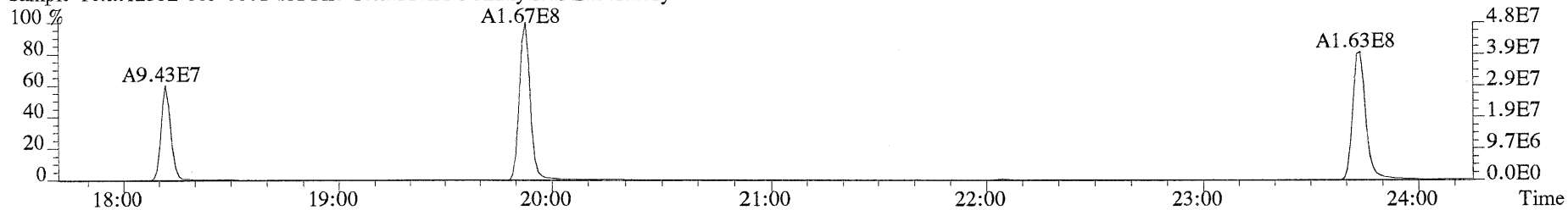
File:24JUL19Z #1-521 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



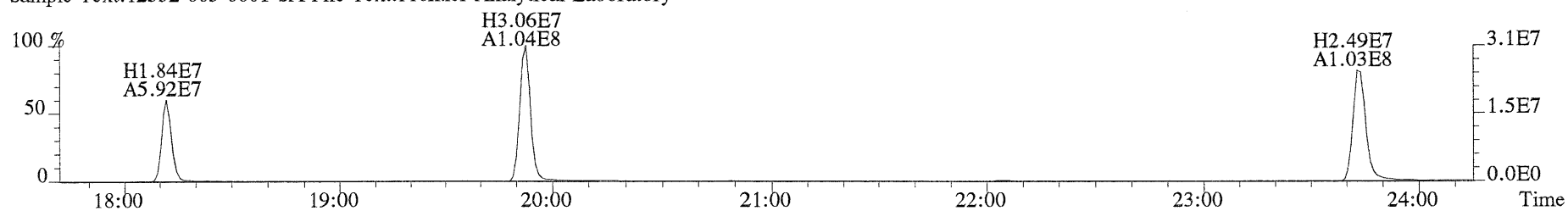
File:24JUL19Z #1-521 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:7 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



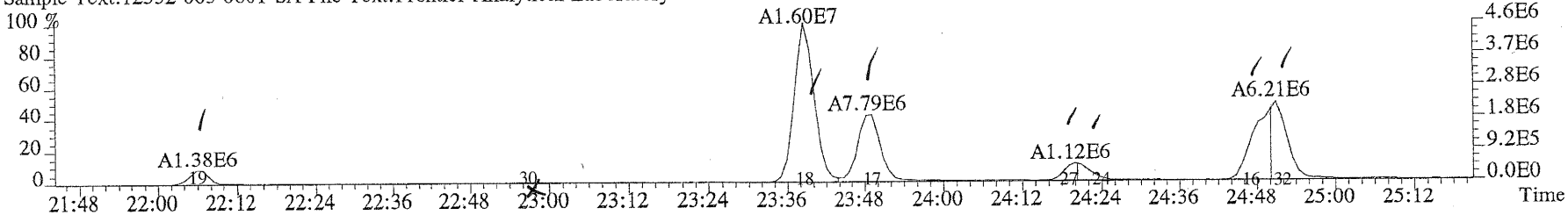
File:24JUL19Z #1-521 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



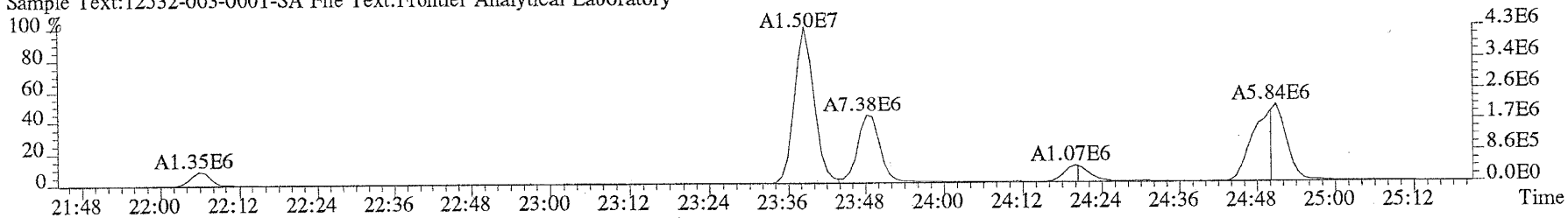
File:24JUL19Z #1-521 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



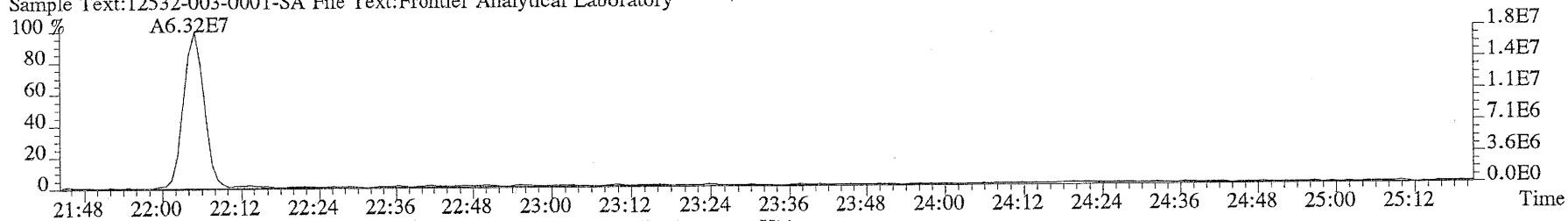
File:24JUL19Z #1-521 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



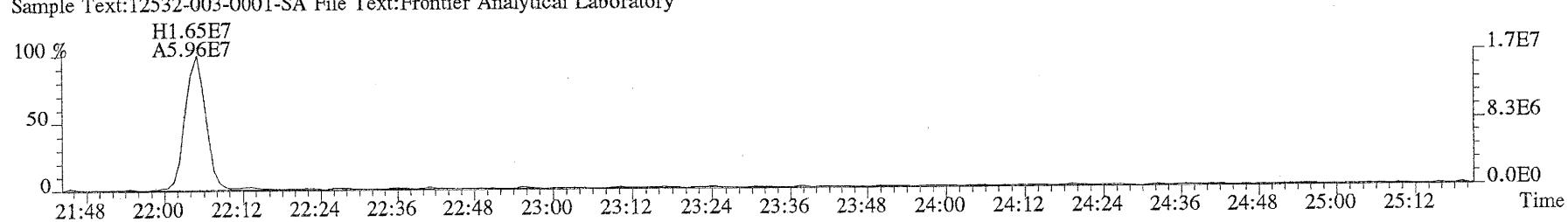
File:24JUL19Z #1-521 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



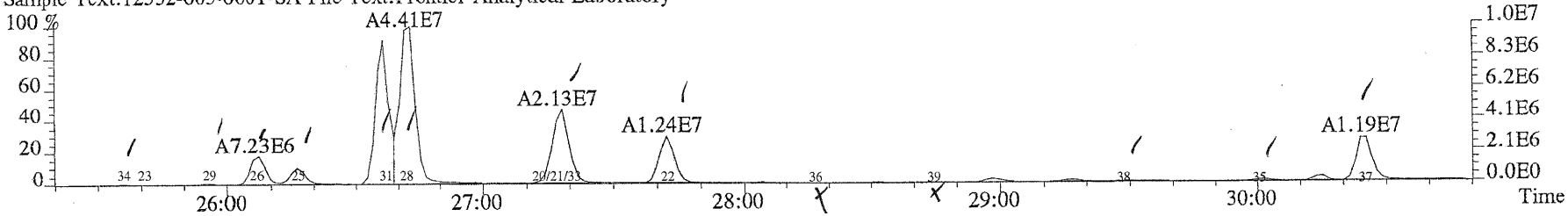
File:24JUL19Z #1-521 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



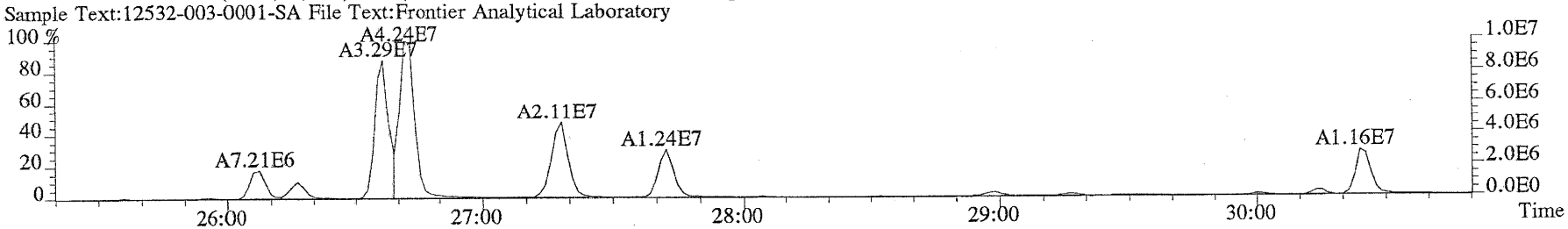
File:24JUL19Z #1-521 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



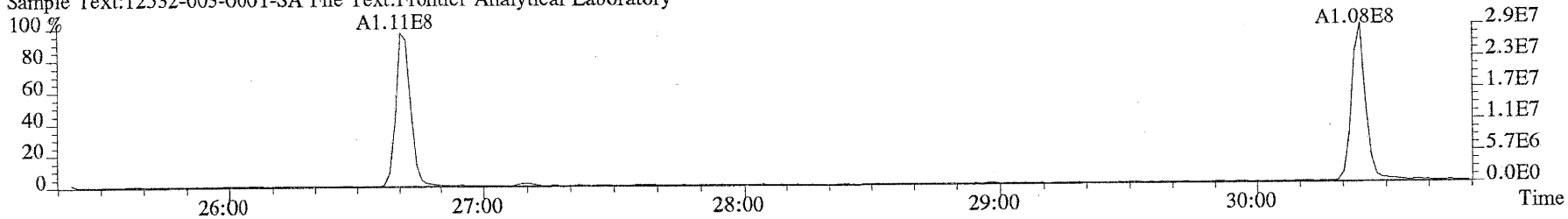
File:24JUL19Z #1-401 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



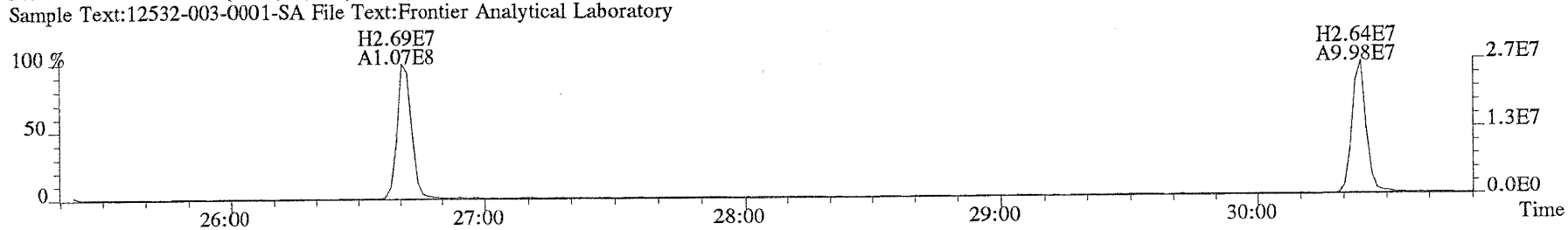
File:24JUL19Z #1-401 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



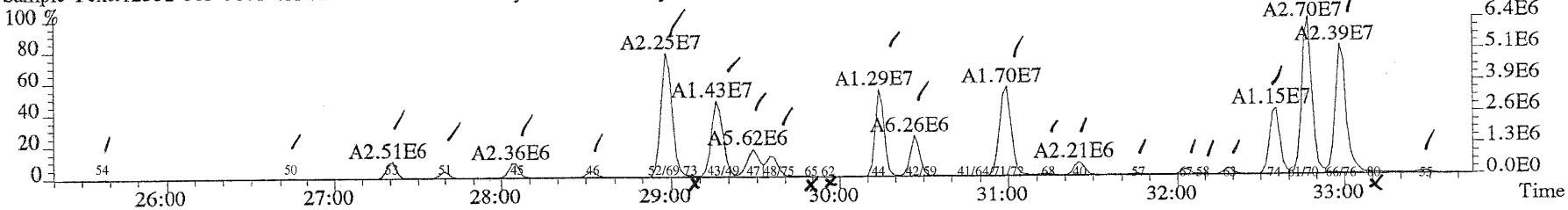
File:24JUL19Z #1-401 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



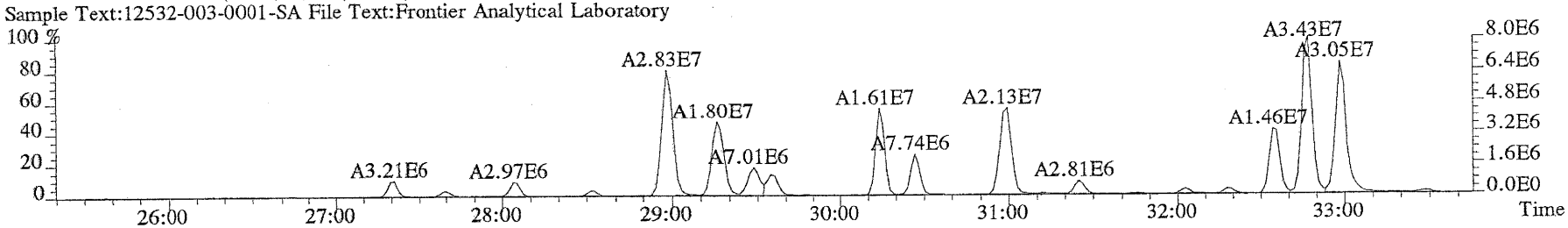
File:24JUL19Z #1-401 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



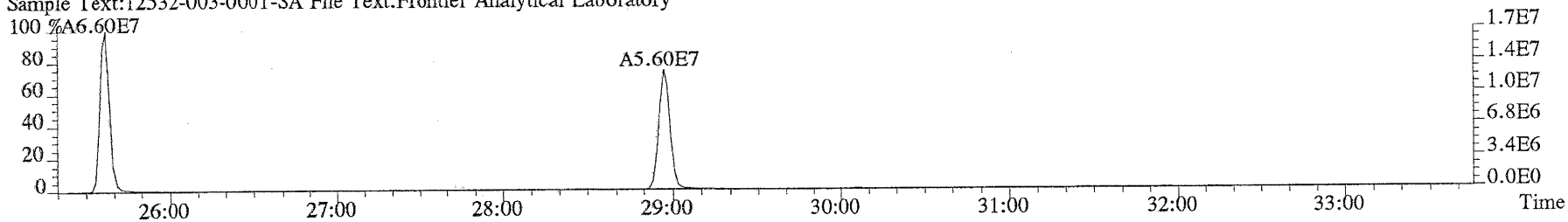
File:24JUL19Z #1-401 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



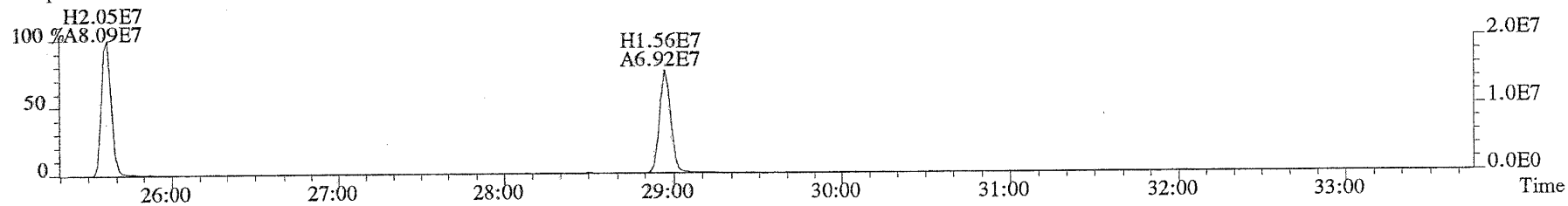
File:24JUL19Z #1-401 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



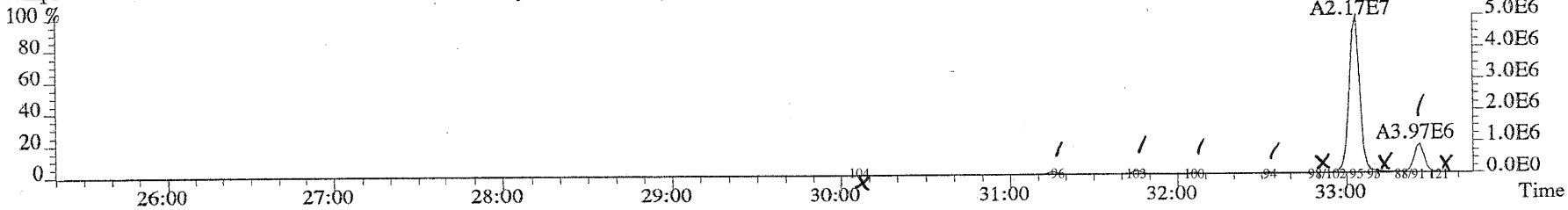
File:24JUL19Z #1-401 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



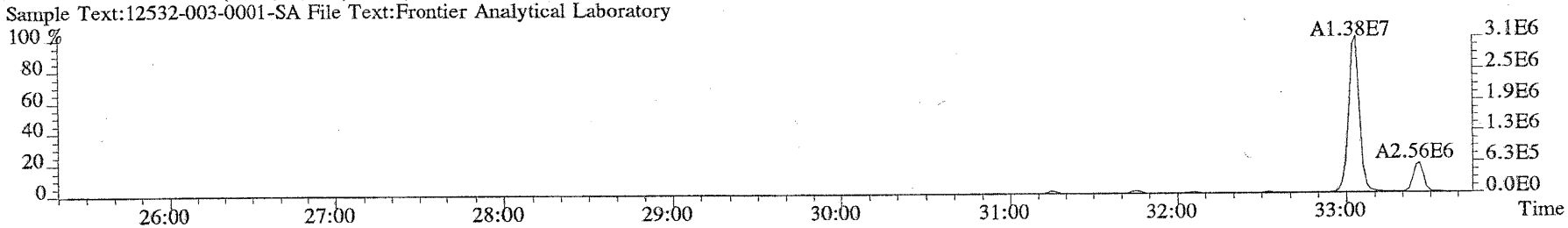
File:24JUL19Z #1-401 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



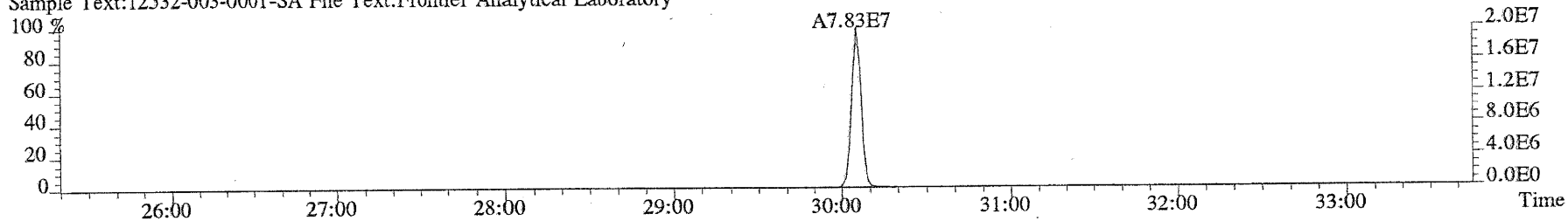
File:24JUL19Z #1-401 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



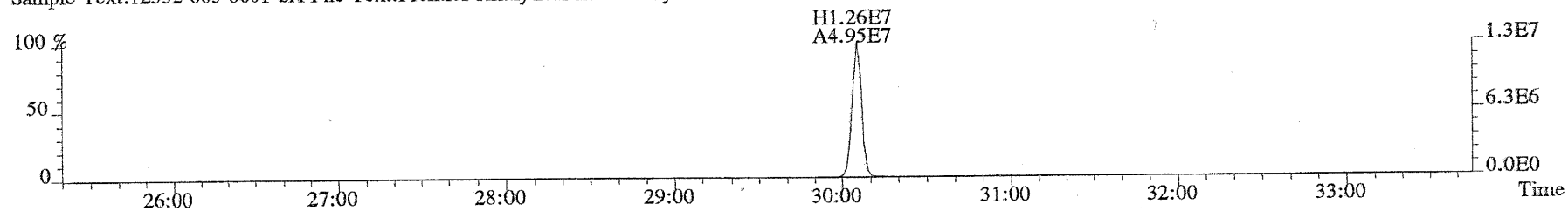
File:24JUL19Z #1-401 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



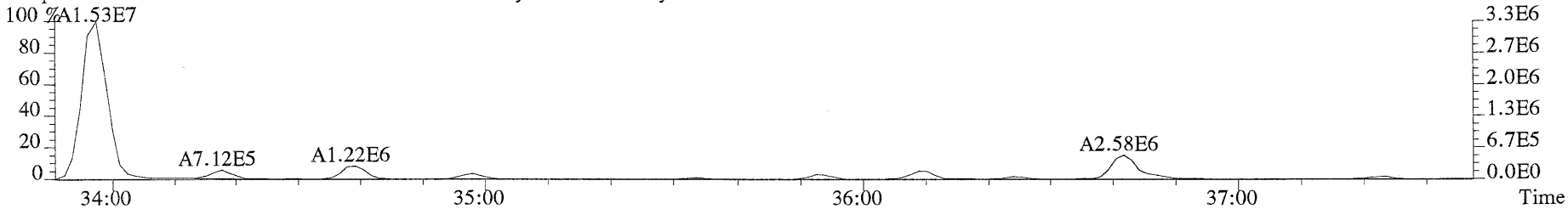
File:24JUL19Z #1-401 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



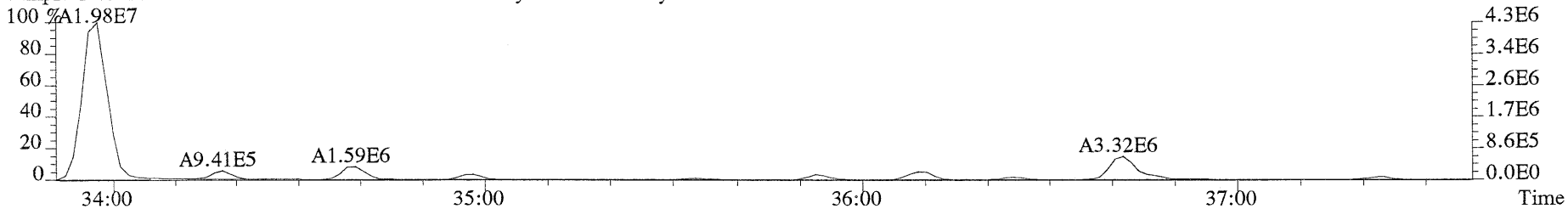
File:24JUL19Z #1-401 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



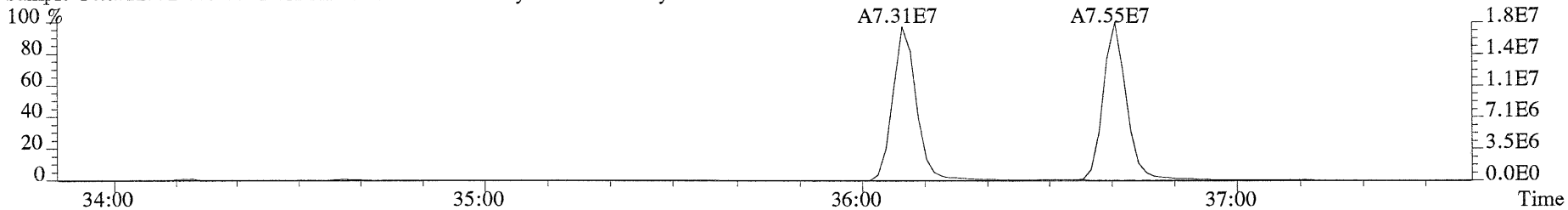
File:24JUL19Z #1-180 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:4 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



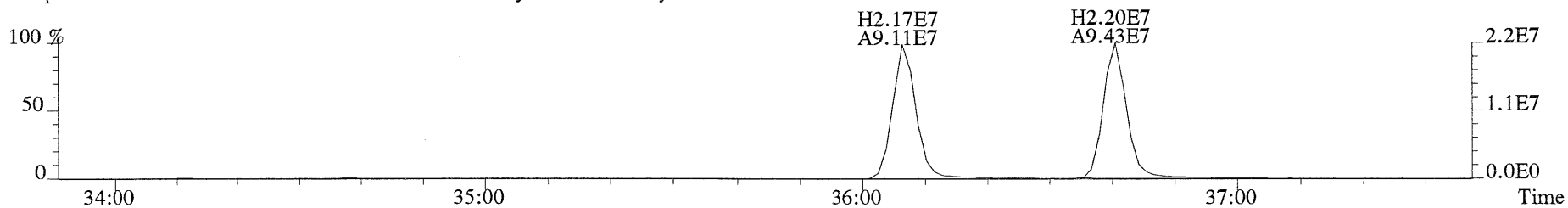
File:24JUL19Z #1-180 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



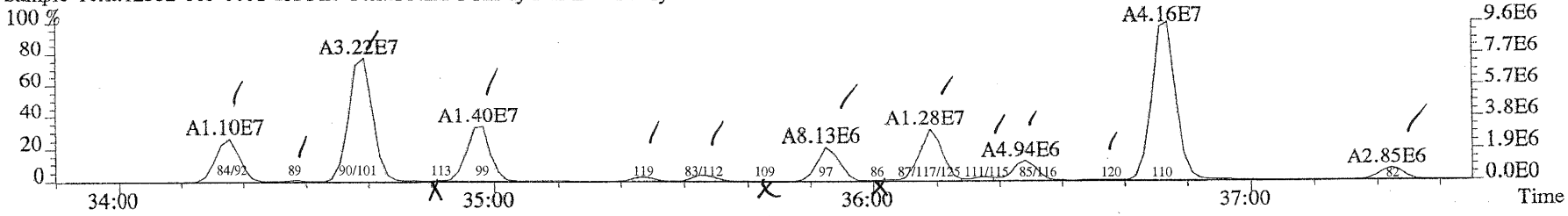
File:24JUL19Z #1-180 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



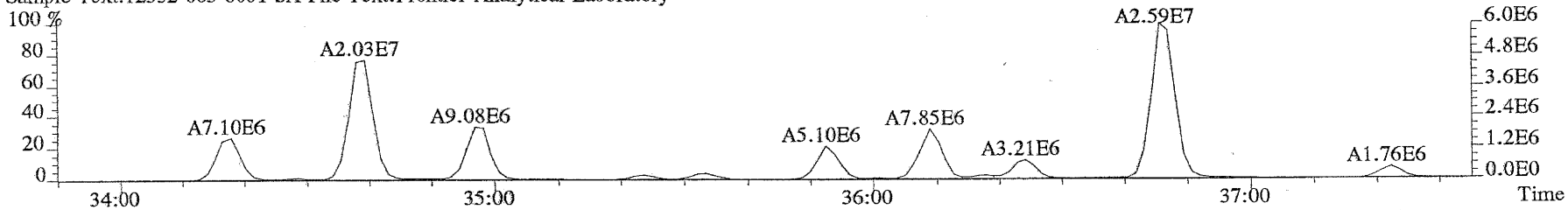
File:24JUL19Z #1-180 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



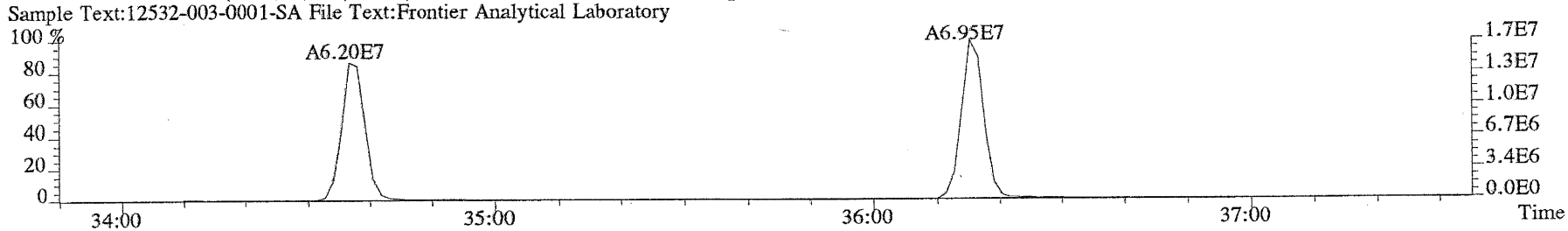
File:24JUL19Z #1-180 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



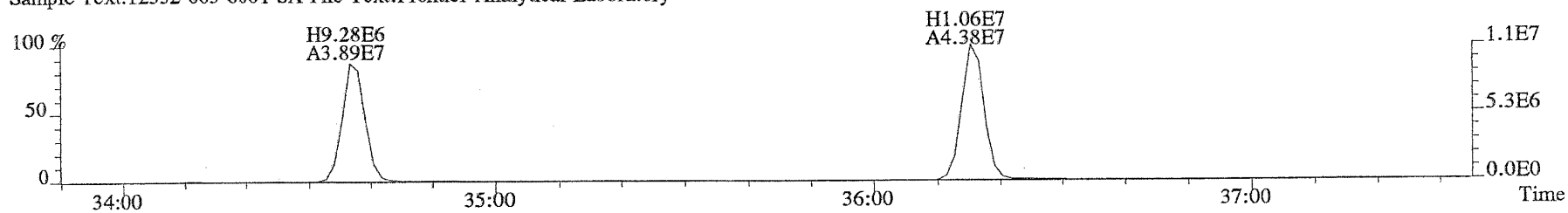
File:24JUL19Z #1-180 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



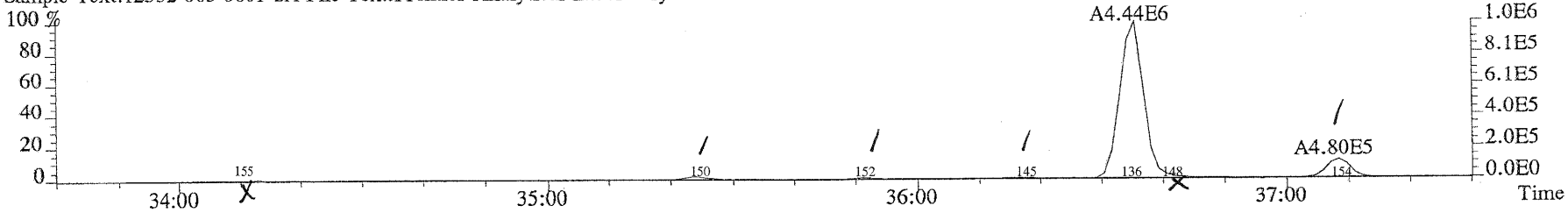
File:24JUL19Z #1-180 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



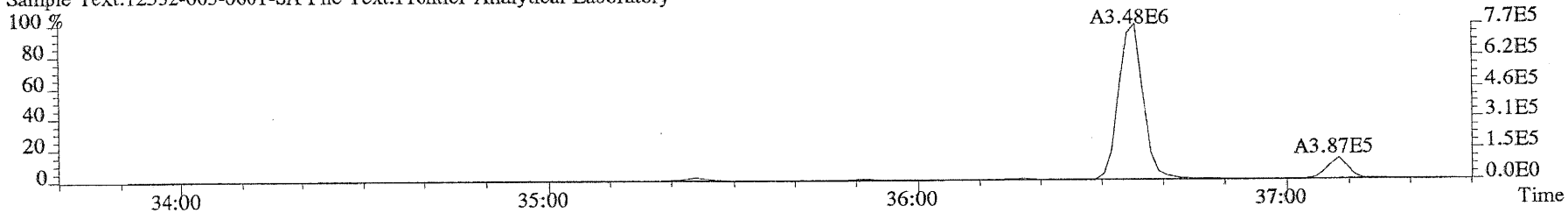
File:24JUL19Z #1-180 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



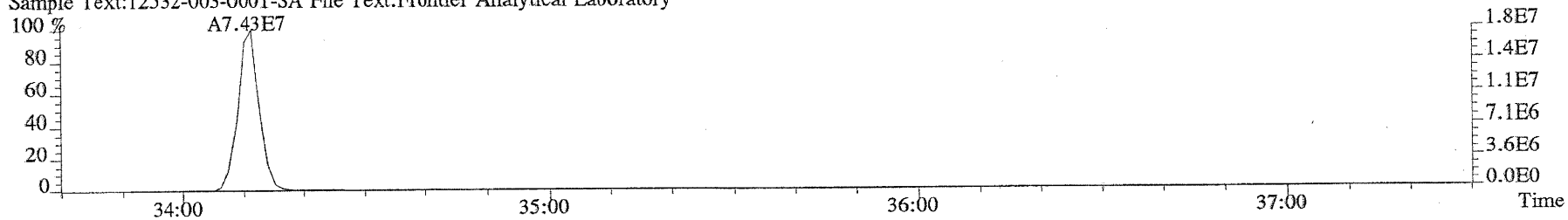
File:24JUL19Z #1-180 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-180 Acq:24-JUL-2019 16:53:59 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:12532-003-0001-SA File Text:Frontier Analytical Laboratory

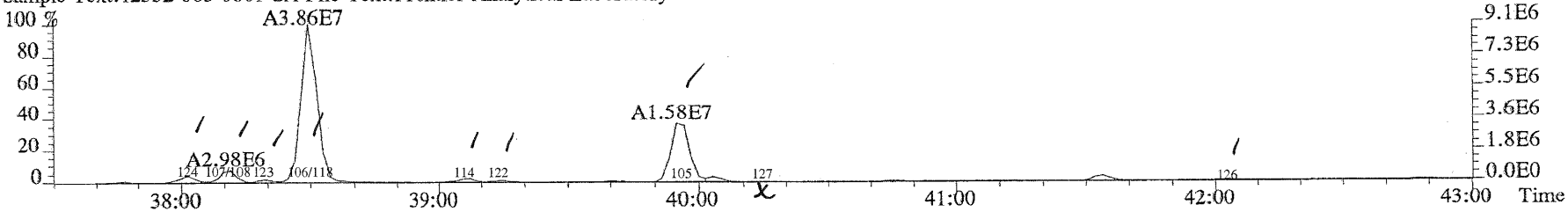


File:24JUL19Z #1-180 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-180 Acq:24-JUL-2019 16:53:59 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:12532-003-0001-SA File Text:Frontier Analytical Laboratory

File:24JUL19Z #1-405 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 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:12532-003-0001-SA File Text:Frontier Analytical Laboratory



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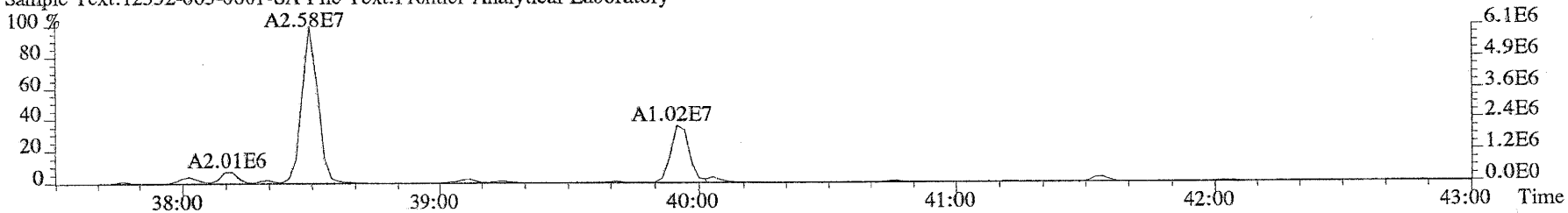
327.8775 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



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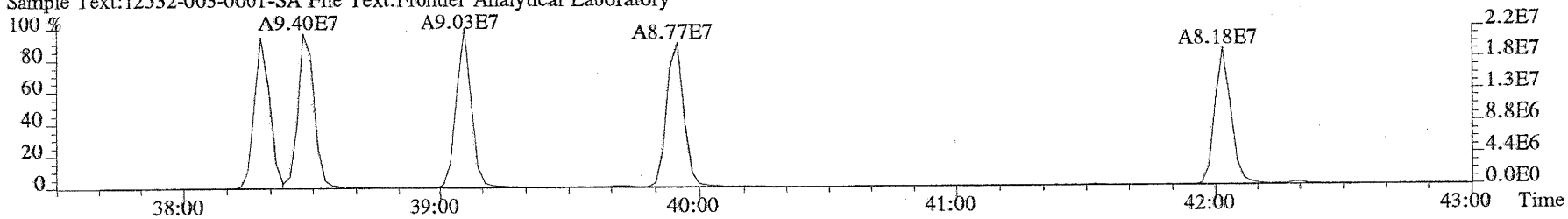
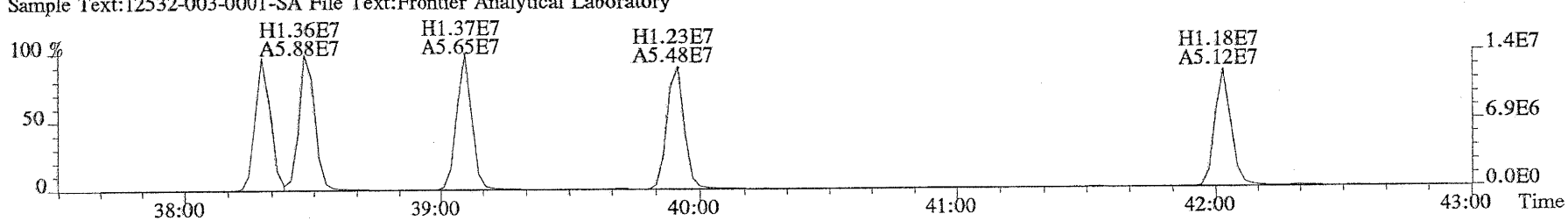
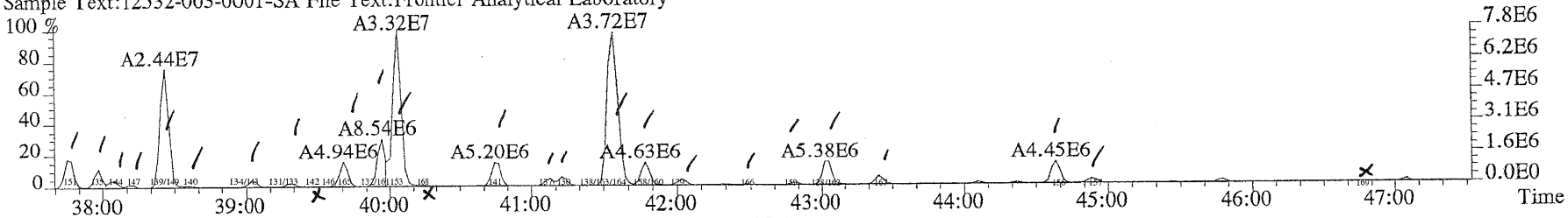
337.9207 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 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:12532-003-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 16:53:59 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:12532-003-0001-SA File Text:Frontier Analytical Laboratory



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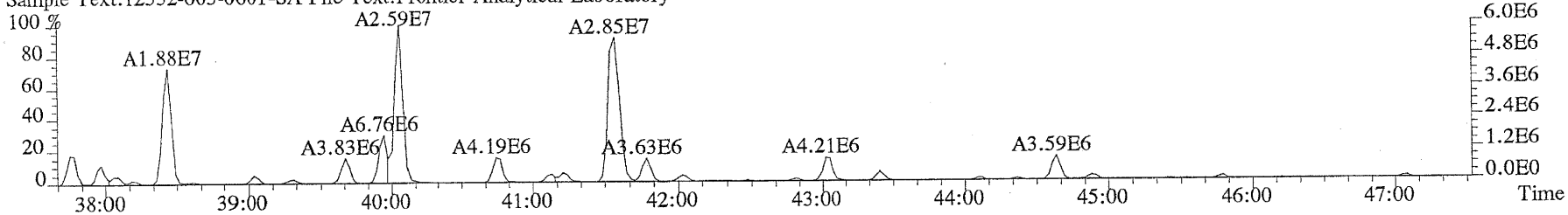
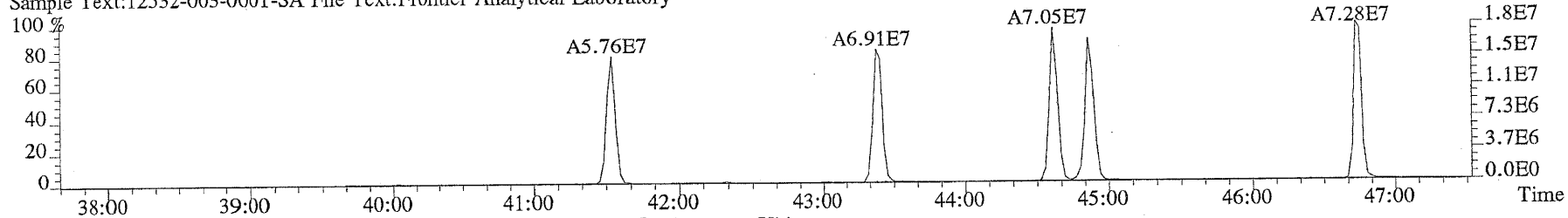
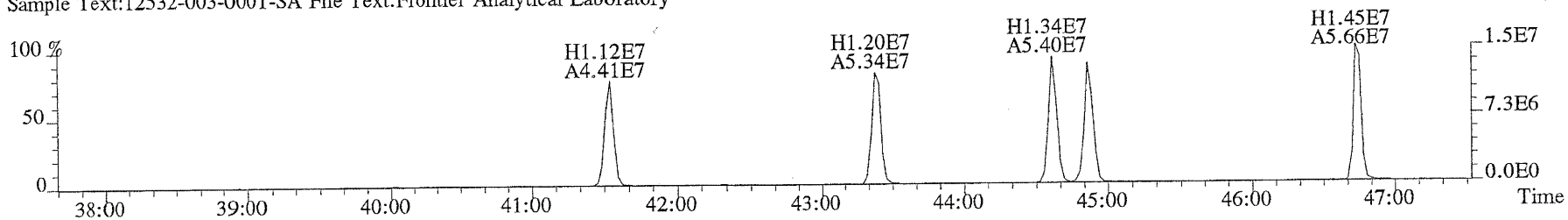
361.8385 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



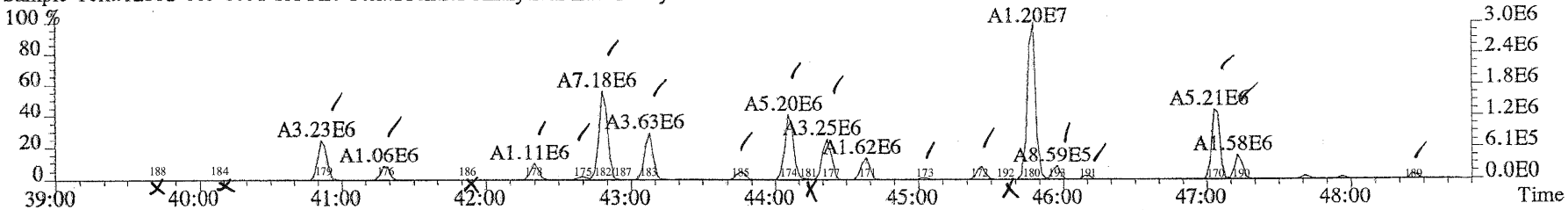
File:24JUL19Z #1-405 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



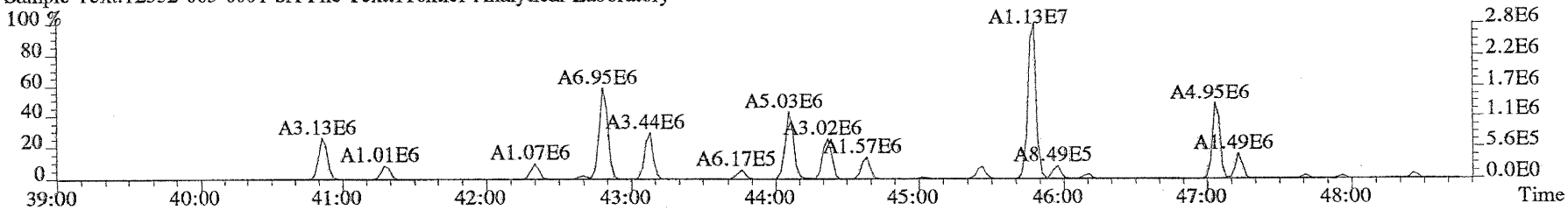
File:24JUL19Z #1-405 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



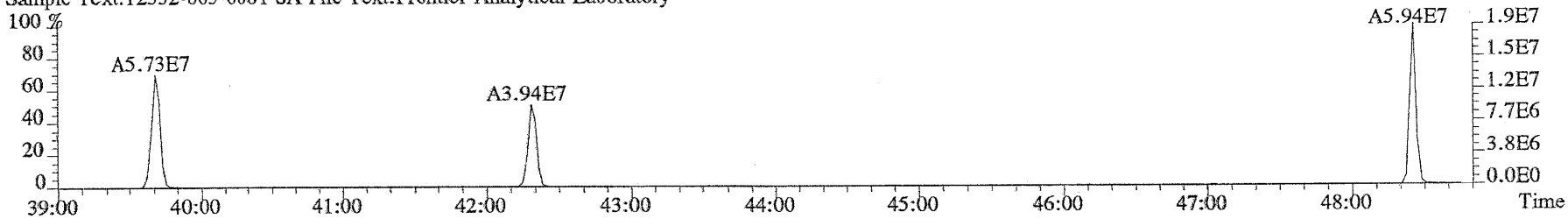
File:24JUL19Z #1-405 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



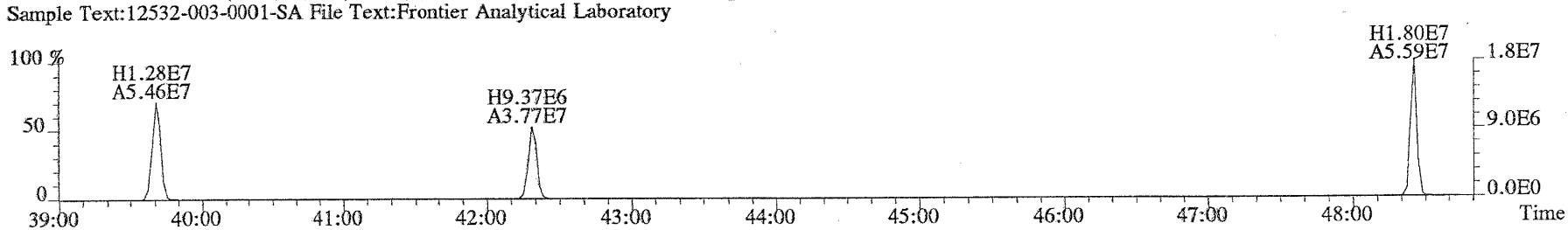
File:24JUL19Z #1-405 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



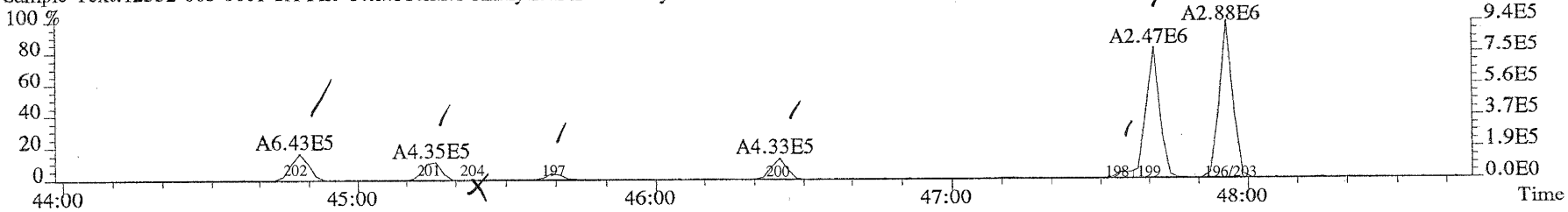
File:24JUL19Z #1-405 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



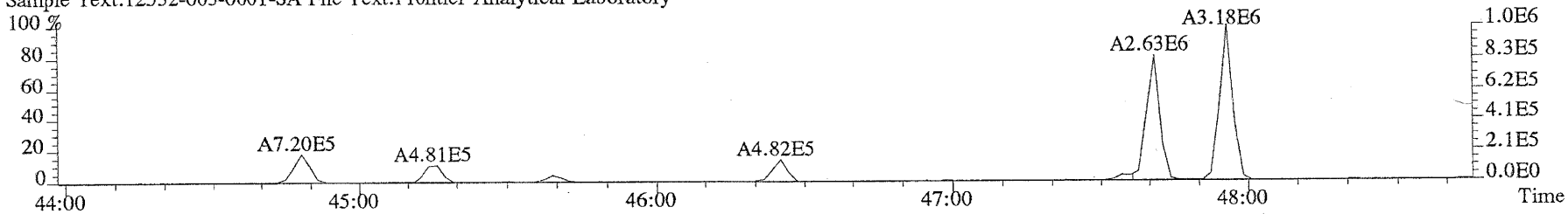
File:24JUL19Z #1-405 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



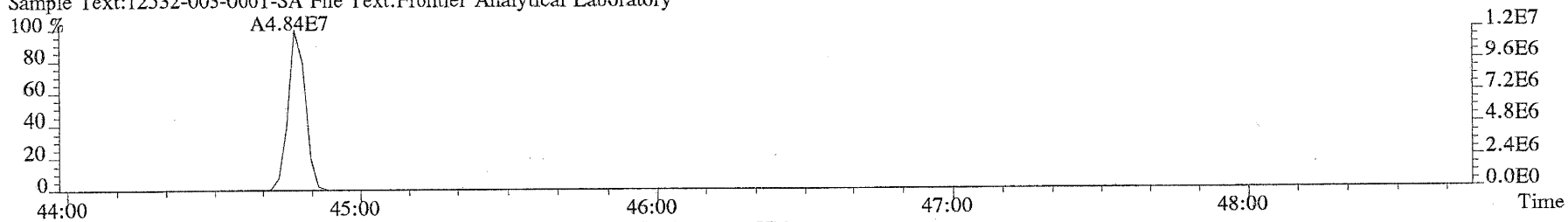
File:24JUL19Z #1-405 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



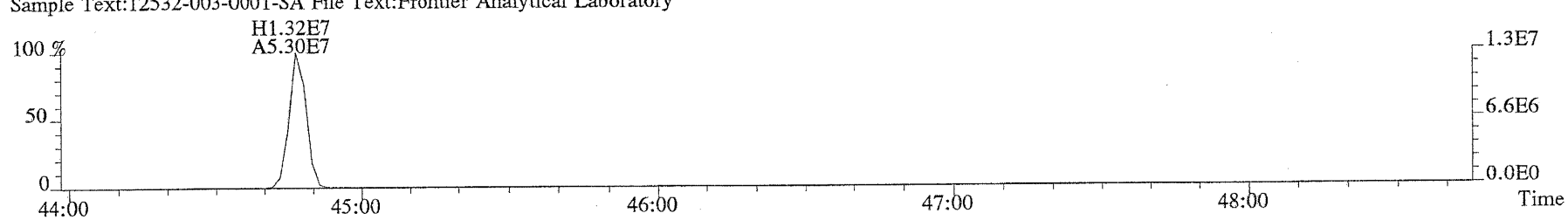
File:24JUL19Z #1-405 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



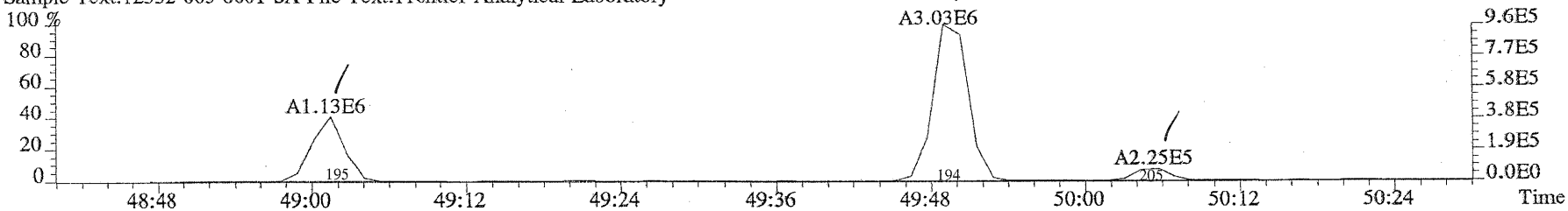
File:24JUL19Z #1-405 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



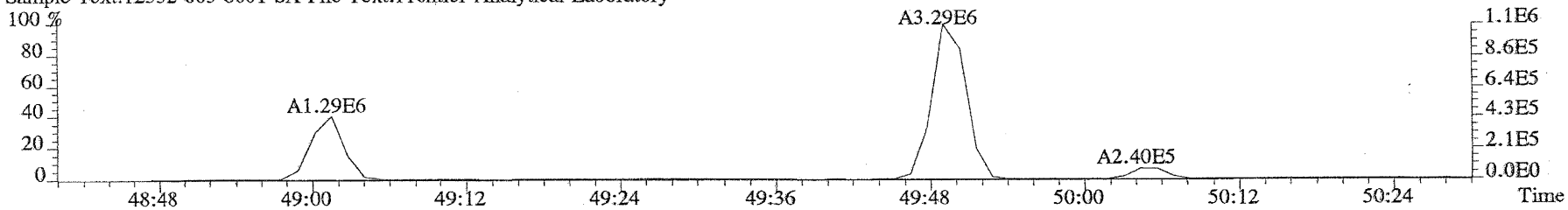
File:24JUL19Z #1-405 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



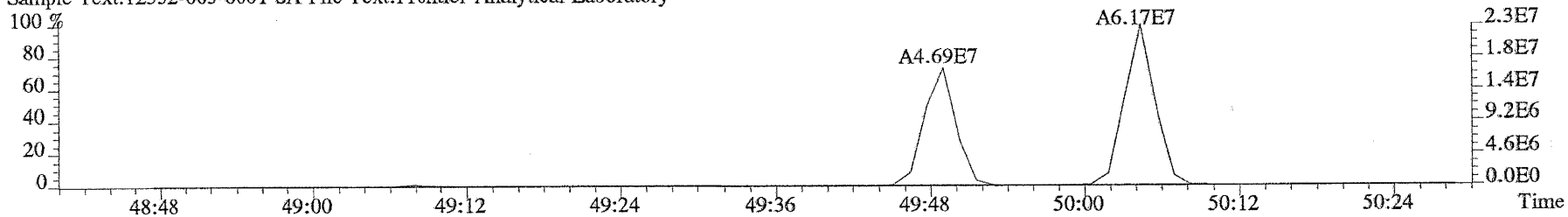
File:24JUL19Z #1-315 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



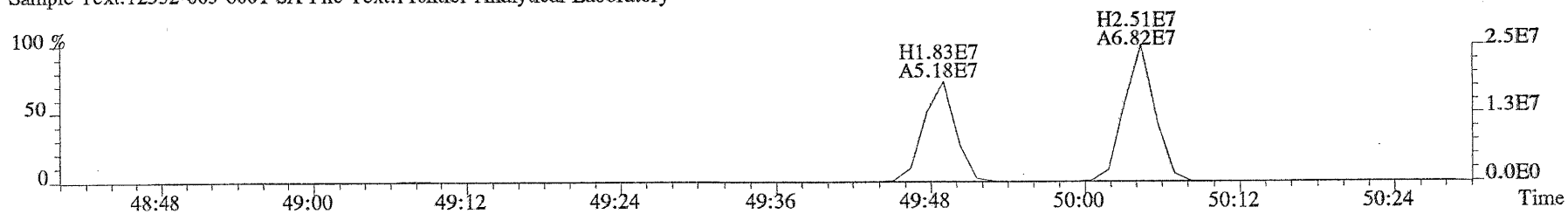
File:24JUL19Z #1-315 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



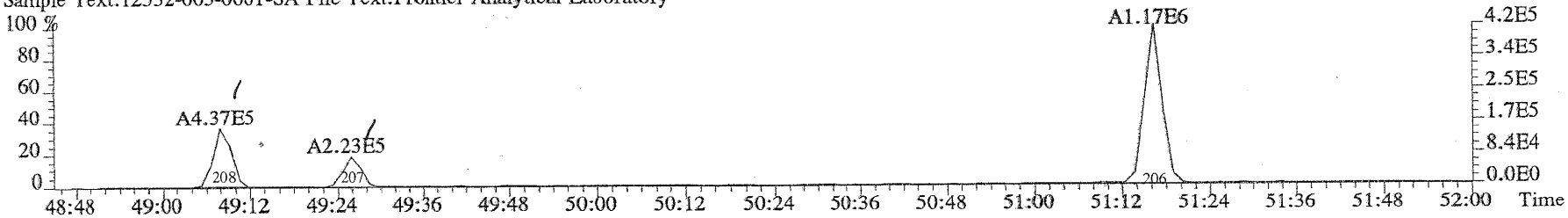
File:24JUL19Z #1-315 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



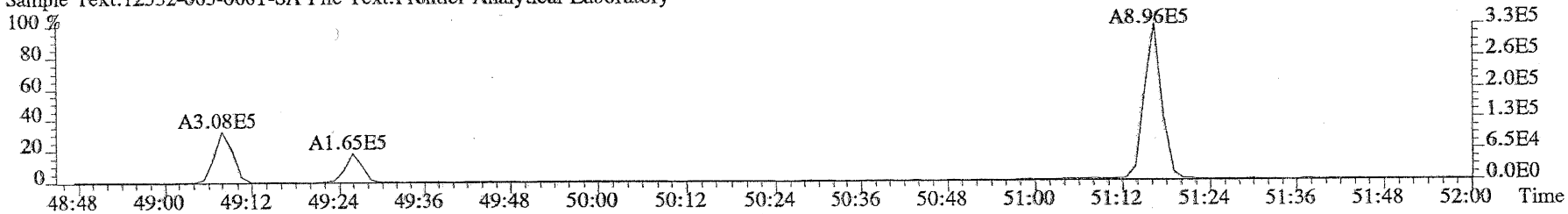
File:24JUL19Z #1-315 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



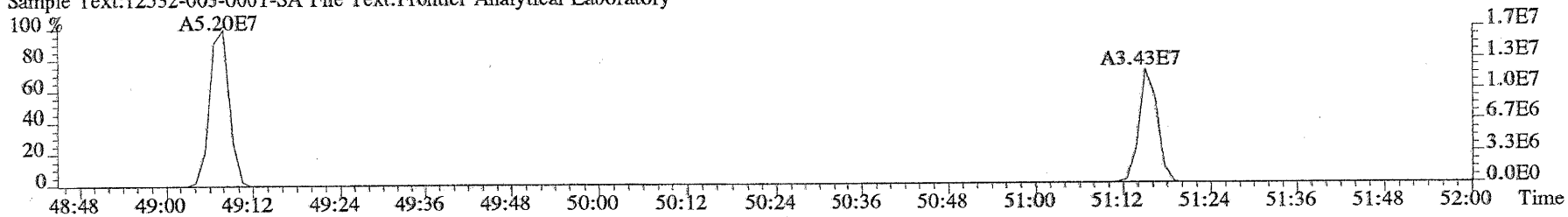
File:24JUL19Z #1-315 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



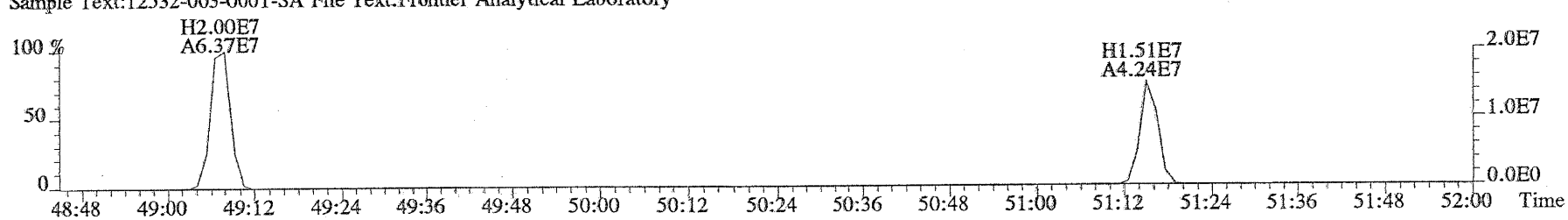
File:24JUL19Z #1-315 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



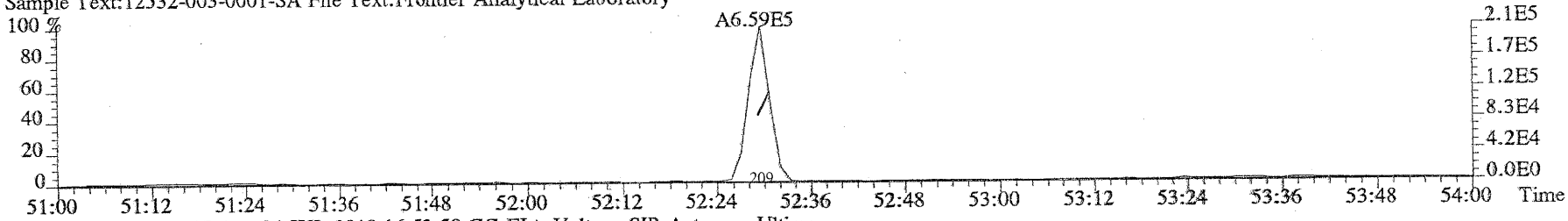
File:24JUL19Z #1-315 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



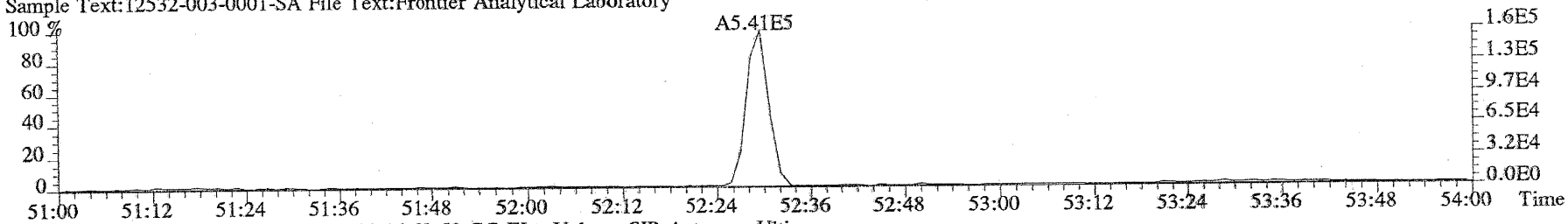
File:24JUL19Z #1-315 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



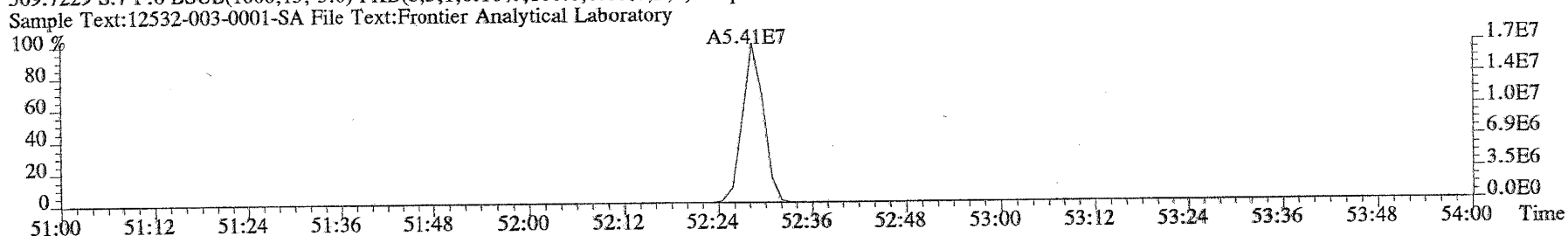
File:24JUL19Z #1-315 Acq:24-JUL-2019 16:53:59 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-003-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 16:53:59 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:12532-003-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 16:53:59 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:12532-003-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 16:53:59 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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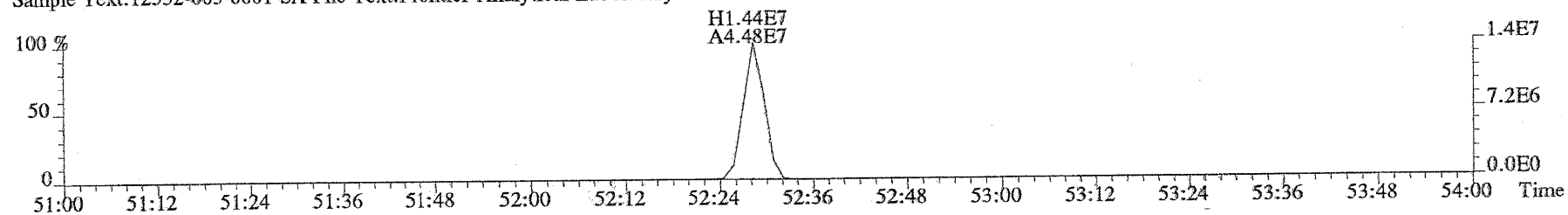


FAL ID: 12532-004-0001-SA Filename: 24JUL19Z Sam:8 Acquired: 24-JUL-19 17:52:39 ICal: DAILYFAL4-7-24-19
Client ID: LDW-Y2-SU-ENR+AC-CA-CORE ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 5.130

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	2.82e+06	3.04 y	14:35	1.19	26.6		-	-	*	
13C-PCB-1	1.74e+08	3.17 y	14:34	0.82	1820					93.4
PCB-2	5.54e+05	3.24 y	16:47	1.22	4.99		-	-	*	
PCB-3	2.03e+06	3.07 y	17:00	1.21	18.0		-	-	*	
13C-PCB-3	1.82e+08	3.19 y	16:59	0.85	1840					94.6
PCB-4	1.41e+07	1.53 y	18:14	1.14	200		-	-	*	
PCB-10	1.24e+06	1.33 y	18:18	1.32	10.9		-	-	*	
13C-PCB-4	1.21e+08	1.52 y	18:13	0.63	1660					85.3
PCB-9	4.15e+06	1.57 y	19:55	1.39	34.7		-	-	*	
PCB-7	4.48e+06	1.48 y	19:57	1.42	36.7		-	-	*	
PCB-6	2.31e+07	1.41 y	20:32	1.39	193		-	-	*	
PCB-8	9.20e+07	1.53 y	20:54	1.41	757		-	-	*	
PCB-5	*	* n	NotFnd	1.37	*		1270	4110	0.405	
PCB-14	*	* n	NotFnd	1.31	*		1270	4110	0.426	
PCB-11	2.12e+06	1.60 y	23:05	1.23	20.1		-	-	*	
PCB-13	3.25e+06	1.51 y	23:25	1.26	29.9		-	-	*	
PCB-12	4.58e+06	1.64 y	23:26	1.26	42.3		-	-	*	
PCB-15	4.98e+07	1.37 y	23:46	1.16	389		-	-	*	
13C-PCB-15	2.15e+08	1.57 y	23:44	0.96	1920					98.5
PCB-19	6.18e+06	1.09 y	22:07	1.16	106		-	-	*	
PCB-30	*	* n	NotFnd	1.82	*		6110	1800	0.860	
PCB-18	8.75e+07	1.06 y	23:39	1.20	1460		-	-	*	
PCB-17	4.43e+07	1.04 y	23:49	1.30	684		-	-	*	
PCB-27	5.80e+06	1.09 y	24:21	1.77	65.8		-	-	*	
PCB-24	3.88e+06	1.02 y	24:22	1.77	43.9		-	-	*	
PCB-16	2.69e+07	0.98 y	24:49	1.48	363		-	-	*	
PCB-32	3.80e+07	1.08 y	24:52	1.48	512		-	-	*	
13C-PCB-19	9.73e+07	1.06 y	22:05	0.45	1870					95.9
13C-PCB-9	2.26e+08	1.58 y	19:54	-	25.9					
PCB-34	1.75e+06	1.13 y	25:36	1.16	16.7		-	-	*	
PCB-23	2.61e+05	1.14 y	25:41	1.33	2.17	J	-	-	*	
PCB-29	1.54e+06	1.14 y	25:57	1.33	12.8		-	-	*	
PCB-26	4.24e+07	1.03 y	26:08	1.27	369		-	-	*	
PCB-25	2.44e+07	1.05 y	26:17	1.22	221		-	-	*	
PCB-31	1.97e+08	1.05 y	26:37	1.20	1820		-	-	*	
PCB-28	2.39e+08	1.02 y	26:43	1.55	1710		-	-	*	
PCB-20	1.23e+08	1.02 y	27:19	1.23	1110		-	-	*	Co-elute PCB 21/33
PCB-21	1.23e+08	1.02 y	27:19	1.23	1110		-	-	*	Co-elute PCB 20/33
PCB-33	1.23e+08	1.02 y	27:19	1.23	1110		-	-	*	Co-elute PCB 20/21
PCB-22	7.27e+07	1.03 y	27:43	1.37	587		-	-	*	
PCB-36	*	* n	NotFnd	1.27	*		3510	4160	0.895	
PCB-39	5.25e+05	1.13 y	28:46	1.24	4.69		-	-	*	
PCB-38	1.38e+06	0.94 y	29:30	1.27	12.0		-	-	*	
PCB-35	3.08e+06	0.93 y	30:02	1.12	30.5		-	-	*	
PCB-37	6.11e+07	1.01 y	30:30	1.17	579		-	-	*	
13C-PCB-37	1.76e+08	1.05 y	30:28	1.46	2110					108

PCB-54	3.63e+05	0.75	y	25:39	1.26	4.85		-	-	*	
PCB-50	5.14e+05	0.82	y	26:45	0.99	8.75		-	-	*	
PCB-53	1.65e+07	0.81	y	27:21	0.98	284		-	-	*	
PCB-51	5.74e+06	0.78	y	27:40	1.01	95.7		-	-	*	
PCB-45	1.50e+07	0.81	y	28:05	0.83	305		-	-	*	
PCB-46	5.57e+06	0.82	y	28:33	0.81	116		-	-	*	
PCB-52	1.83e+08	0.80	y	29:00	1.05	2930		-	-	*	Co-elute PCB 69
PCB-69	1.83e+08	0.80	y	29:00	1.05	2930		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.20	*		1480	1300	0.357	
PCB-43	1.12e+08	0.80	y	29:18	0.91	2090		-	-	*	Co-elute PCB 49
PCB-49	1.12e+08	0.80	y	29:18	0.91	2090		-	-	*	Co-elute PCB 43
PCB-47	3.89e+07	0.78	y	29:29	0.92	716		-	-	*	
PCB-48	2.98e+07	0.84	y	29:36	1.19	424		-	-	*	Co-elute PCB 75
PCB-75	2.98e+07	0.84	y	29:36	1.19	424		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.20	*		1480	1300	0.357	
PCB-62	*	*	n	NotFnd	1.16	*		1480	1300	0.370	
PCB-44	9.79e+07	0.80	y	30:18	0.78	2130		-	-	*	
PCB-42	4.44e+07	0.80	y	30:33	1.01	742		-	-	*	Co-elute PCB 59
PCB-59	4.44e+07	0.80	y	30:33	1.01	742		-	-	*	Co-elute PCB 42
PCB-72	1.18e+08	0.79	y	31:06	1.14	1750		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.18e+08	0.79	y	31:06	1.14	1750		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.18e+08	0.79	y	31:06	1.14	1750		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.18e+08	0.79	y	31:06	1.14	1750		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.69e+06	0.81	y	31:16	1.33	21.6		-	-	*	
PCB-40	1.33e+07	0.80	y	31:28	0.71	317		-	-	*	
PCB-57	1.18e+06	0.77	y	31:47	1.21	16.5		-	-	*	
PCB-67	5.66e+06	0.80	y	32:04	1.19	80.6		-	-	*	
PCB-58	7.23e+05	0.86	y	32:11	1.22	10.0		-	-	*	
PCB-63	7.14e+06	0.79	y	32:20	1.22	98.8		-	-	*	
PCB-74	8.48e+07	0.80	y	32:36	1.22	1180		-	-	*	
PCB-61	2.03e+08	0.80	y	32:47	1.10	3120		-	-	*	Co-elute PCB 70
PCB-70	2.03e+08	0.80	y	32:47	1.10	3120		-	-	*	Co-elute PCB 61
PCB-76	1.70e+08	0.80	y	33:00	1.25	2300		-	-	*	Co-elute PCB 66
PCB-66	1.70e+08	0.80	y	33:00	1.25	2300		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.40	*		1480	1300	0.307	
PCB-55	3.87e+06	0.78	y	33:29	1.22	53.5		-	-	*	
13C-PCB-54	1.15e+08	0.82	y	25:38	1.21	1660					85.2
PCB-104	*	*	n	NotFnd	1.12	*		956	840	0.388	
PCB-96	1.46e+06	1.63	y	31:19	1.06	25.9		-	-	*	
PCB-103	2.08e+06	1.54	y	31:47	0.86	45.1		-	-	*	
PCB-100	7.71e+05	1.53	y	32:07	0.86	16.8		-	-	*	
PCB-94	7.26e+05	1.57	y	32:33	0.72	18.9		-	-	*	
PCB-98	*	*	n	NotFnd	0.78	*		956	840	0.555	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.78	*		956	840	0.555	Co-elute PCB 98
PCB-95	1.24e+08	1.59	y	33:04	0.73	3190		-	-	*	
PCB-93	*	*	n	NotFnd	0.72	*		956	840	0.600	
PCB-88	2.15e+07	1.54	y	33:27	0.84	480		-	-	*	Co-elute PCB 91
PCB-91	2.15e+07	1.54	y	33:27	0.84	480		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.95	*		956	840	0.458	
13C-PCB-104	1.04e+08	1.58	y	30:07	1.00	1810					92.9
13C-PCB-28	1.80e+08	1.03	y	26:42	1.75	1800					92.2
13C-PCB-52	1.12e+08	0.80	y	28:57	-	27.2					

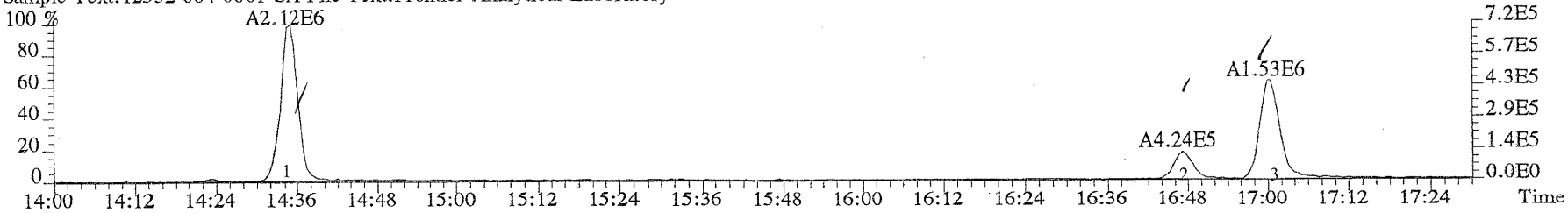
PCB-56	1.07e+08	0.78	y	33:58	1.14	1280		-	-	*	Co-elute PCB 60
PCB-60	1.07e+08	0.78	y	33:58	1.14	1280		-	-	*	Co-elute PCB 56
PCB-79	3.68e+06	0.72	y	34:59	1.24	40.5		-	-	*	
PCB-78	1.19e+06	0.73	y	35:34	1.20	13.6		-	-	*	
PCB-81	5.89e+06	0.76	y	36:09	1.21	67.5		-	-	*	
13C-PCB-81	1.40e+08	0.79	y	36:07	1.53	1960					100
PCB-77	1.69e+07	0.78	y	36:42	1.04	217		-	-	*	
13C-PCB-77	1.45e+08	0.80	y	36:41	1.54	2010					103
PCB-155	*	*	n	NotFnd	1.05	*		1400	724	0.394	
PCB-150	3.88e+05	1.24	y	35:25	0.95	7.57		-	-	*	
PCB-152	2.21e+05	1.20	y	35:52	0.93	4.44		-	-	*	
PCB-145	1.04e+05	1.34	y	36:17	0.93	2.06	J	-	-	*	
PCB-136	2.79e+07	1.25	y	36:36	0.84	621		-	-	*	
PCB-148	*	*	n	NotFnd	0.75	*		1400	724	0.555	
PCB-154	2.70e+06	1.24	y	37:09	0.77	64.8		-	-	*	
13C-PCB-155	1.05e+08	1.30	y	34:12	1.35	1650					84.7
13C-PCB-111	1.01e+08	1.59	y	36:17	1.21	1780					91.2
13C-PCB-101	9.15e+07	1.60	y	34:38	-	27.9					
PCB-84	7.10e+07	1.60	y	34:18	0.85	1320		-	-	*	Co-elute PCB 92
PCB-92	7.10e+07	1.60	y	34:18	0.85	1320		-	-	*	Co-elute PCB 84
PCB-89	2.09e+06	1.36	y	34:28	0.79	41.4		-	-	*	
PCB-90	1.93e+08	1.60	y	34:40	0.92	3300		-	-	*	Co-elute PCB 101
PCB-101	1.93e+08	1.60	y	34:40	0.92	3300		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*		2450	1030	0.548	
PCB-99	8.65e+07	1.56	y	34:59	0.96	1420		-	-	*	
PCB-119	5.89e+06	1.55	y	35:24	1.17	78.9		-	-	*	
PCB-83	8.85e+06	1.57	y	35:34	0.92	151		-	-	*	Co-elute PCB 112
PCB-112	8.85e+06	1.57	y	35:34	0.92	151		-	-	*	Co-elute PCB 83
PCB-109	1.55e+05	1.41	y	35:43	1.09	2.23	J	-	-	*	
PCB-97	5.15e+07	1.60	y	35:53	0.75	1080		-	-	*	
PCB-86	*	*	n	NotFnd	0.83	*		2450	1030	0.722	
PCB-125	7.59e+07	1.60	y	36:09	1.00	1190		-	-	*	Co-elute PCB 87/117
PCB-87	7.59e+07	1.60	y	36:09	1.00	1190		-	-	*	Co-elute PCB 125/117
PCB-117	7.59e+07	1.60	y	36:09	1.00	1190		-	-	*	Co-elute PCB 125/87
PCB-111	3.79e+06	1.59	y	36:18	1.12	52.9		-	-	*	Co-elute PCB 115
PCB-115	3.79e+06	1.59	y	36:18	1.12	52.9		-	-	*	Co-elute PCB 111
PCB-85	2.87e+07	1.54	y	36:25	0.98	460		-	-	*	Co-elute PCB 116
PCB-116	2.87e+07	1.54	y	36:25	0.98	460		-	-	*	Co-elute PCB 85
PCB-120	1.02e+06	1.76	y	36:38	1.21	13.2		-	-	*	
PCB-110	2.44e+08	1.58	y	36:47	1.12	3420		-	-	*	
PCB-82	1.67e+07	1.60	y	37:23	0.65	401		-	-	*	
PCB-124	1.01e+07	1.52	y	38:02	1.16	137		-	-	*	
PCB-108	1.67e+07	1.51	y	38:12	1.12	235		-	-	*	Co-elute PCB 107
PCB-107	1.67e+07	1.51	y	38:12	1.12	235		-	-	*	Co-elute PCB 108
PCB-123	3.76e+06	1.51	y	38:20	0.97	63.9		-	-	*	
13C-PCB-123	1.19e+08	1.57	y	38:18	1.48	1470					75.4
PCB-118	2.33e+08	1.53	y	38:30	1.06	3270		-	-	*	Co-elute PCB 106
PCB-106	2.33e+08	1.53	y	38:30	1.06	3270		-	-	*	Co-elute PCB 118
13C-PCB-118	1.32e+08	1.59	y	38:28	1.54	1560					80.1
PCB-114	6.01e+06	1.50	y	39:08	1.07	89.2		-	-	*	
13C-PCB-114	1.23e+08	1.60	y	39:06	1.46	1540					79.1
PCB-122	3.15e+06	1.55	y	39:14	1.09	45.3		-	-	*	
PCB-105	8.93e+07	1.53	y	39:56	1.14	1240		-	-	*	
13C-PCB-105	1.23e+08	1.59	y	39:56	1.40	1620					82.9

PCB-127	*	*	n	NotFnd	1.00	*	2060	1450	0.606	
PCB-126	1.19e+06	1.51	y	42:02	1.10	17.6	-	-	*	
13C-PCB-126	1.20e+08	1.60	y	42:02	1.32	1670				85.5
PCB-151	3.46e+07	1.29	y	37:47	1.10	583	-	-	*	
PCB-135	1.98e+07	1.26	y	37:59	1.01	363	-	-	*	
PCB-144	8.48e+06	1.25	y	38:05	1.25	126	-	-	*	
PCB-147	3.71e+06	1.26	y	38:12	1.15	59.8	-	-	*	
PCB-139	1.43e+08	1.29	y	38:27	1.18	2250	-	-	*	Co-elute PCB 149
PCB-149	1.43e+08	1.29	y	38:27	1.18	2250	-	-	*	Co-elute PCB 139
PCB-140	1.41e+06	1.27	y	38:38	1.16	22.5	-	-	*	
PCB-143	9.42e+06	1.30	y	39:03	0.96	182	-	-	*	Co-elute PCB 134
PCB-134	9.42e+06	1.30	y	39:03	0.96	182	-	-	*	Co-elute PCB 143
PCB-131	5.24e+06	1.24	y	39:19	0.94	103	-	-	*	Co-elute PCB 133
PCB-133	5.24e+06	1.24	y	39:19	0.94	103	-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.99	*	1580	1510	0.631	
PCB-165	2.81e+07	1.25	y	39:41	1.26	415	-	-	*	Co-elute PCB 146
PCB-146	2.81e+07	1.25	y	39:41	1.26	415	-	-	*	Co-elute PCB 165
PCB-161	5.43e+07	1.25	y	39:57	1.15	876	-	-	*	Co-elute PCB 132
PCB-132	5.43e+07	1.25	y	39:57	1.15	876	-	-	*	Co-elute PCB 161
PCB-153	1.88e+08	1.28	y	40:04	1.27	2730	-	-	*	
PCB-168	*	*	n	NotFnd	1.35	*	1580	1510	0.460	
PCB-141	3.09e+07	1.26	y	40:47	1.02	561	-	-	*	
PCB-137	8.41e+06	1.25	y	41:08	0.94	166	-	-	*	
PCB-130	1.17e+07	1.30	y	41:13	0.89	243	-	-	*	
PCB-138	2.11e+08	1.26	y	41:34	1.25	3140	-	-	*	Co-elute PCB 163/164
PCB-163	2.11e+08	1.26	y	41:34	1.25	3140	-	-	*	Co-elute PCB 138/164
PCB-164	2.11e+08	1.26	y	41:34	1.25	3140	-	-	*	Co-elute PCB 138/163
PCB-158	2.62e+07	1.26	y	41:47	1.33	365	-	-	*	Co-elute PCB 160
PCB-160	2.62e+07	1.26	y	41:47	1.33	365	-	-	*	Co-elute PCB 158
PCB-129	7.74e+06	1.25	y	42:02	0.85	168	-	-	*	
PCB-166	9.92e+05	1.21	y	42:29	1.28	14.3	-	-	*	
PCB-159	2.14e+06	1.33	y	42:50	1.37	29.0	-	-	*	
PCB-128	3.22e+07	1.28	y	43:03	1.08	554	-	-	*	Co-elute PCB 162
PCB-162	3.22e+07	1.28	y	43:03	1.08	554	-	-	*	Co-elute PCB 128
PCB-167	9.37e+06	1.28	y	43:25	1.18	150	-	-	*	
13C-PCB-167	1.04e+08	1.29	y	43:23	1.13	1680				86.3
PCB-156	2.58e+07	1.26	y	44:39	1.24	398	-	-	*	
13C-PCB-156	1.02e+08	1.31	y	44:37	1.06	1750				89.7
PCB-157	5.85e+06	1.25	y	44:53	1.18	88.3	-	-	*	
13C-PCB-157	1.10e+08	1.30	y	44:52	1.07	1880				96.3
PCB-169	*	*	n	NotFnd	1.12	*	1580	1510	0.452	
13C-PCB-169	1.06e+08	1.29	y	46:45	1.00	1950				100

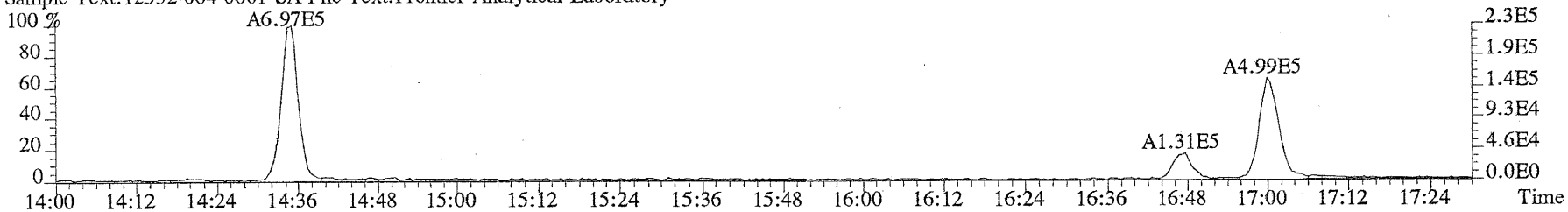
PCB-188	1.13e+05	1.19	y	39:42	1.03	2.16	J	-	-	*	
13C-PCB-188	9.92e+07	1.05	y	39:41	1.26	1440					73.8
PCB-184	*	*	n	NotFnd	1.18	*		1640	1040	0.455	
PCB-179	1.90e+07	1.05	y	40:52	1.11	341		-	-	*	
PCB-176	6.24e+06	1.07	y	41:18	1.08	115		-	-	*	
PCB-186	*	*	n	NotFnd	1.08	*		1640	1040	0.498	
PCB-178	6.46e+06	1.04	y	42:20	0.74	173		-	-	*	
PCB-175	1.54e+06	1.05	y	42:40	0.76	40.5		-	-	*	
PCB-187	4.23e+07	1.05	y	42:48	0.82	1020		-	-	*	Co-elute PCB 182
PCB-182	4.23e+07	1.05	y	42:48	0.82	1020		-	-	*	Co-elute PCB 187
PCB-183	2.07e+07	1.05	y	43:08	0.80	519		-	-	*	
PCB-185	3.58e+06	1.02	y	43:46	0.71	101		-	-	*	
PCB-174	3.10e+07	1.05	y	44:06	0.73	844		-	-	*	
PCB-181	*	*	n	NotFnd	0.66	*		1640	1040	0.818	
PCB-177	1.80e+07	1.04	y	44:22	0.64	555		-	-	*	
PCB-171	9.05e+06	1.03	y	44:39	0.69	263		-	-	*	
PCB-173	6.32e+05	1.04	y	45:03	0.62	20.4		-	-	*	
PCB-172	5.10e+06	1.09	y	45:26	0.64	160		-	-	*	
PCB-192	*	*	n	NotFnd	0.84	*		1640	1040	0.641	
PCB-180	7.22e+07	1.06	y	45:46	0.65	2220		-	-	*	
PCB-193	4.80e+06	1.06	y	45:58	0.90	107		-	-	*	
PCB-191	1.75e+06	1.03	y	46:09	0.83	41.8		-	-	*	
PCB-170	3.02e+07	1.04	y	47:04	0.60	1000		-	-	*	
PCB-190	8.74e+06	1.03	y	47:13	0.85	206		-	-	*	
PCB-189	1.70e+06	1.01	y	48:26	1.06	32.4		-	-	*	
13C-PCB-189	9.65e+07	1.06	y	48:26	0.96	1840					94.5
PCB-202	3.65e+06	0.88	y	44:49	1.03	82.6		-	-	*	
PCB-201	2.64e+06	0.88	y	45:15	1.09	56.5		-	-	*	
PCB-204	*	*	n	NotFnd	1.05	*		740	1210	0.460	
PCB-197	7.80e+05	0.84	y	45:40	1.09	16.6		-	-	*	
PCB-200	2.45e+06	0.89	y	46:26	1.04	54.8		-	-	*	
PCB-198	5.97e+05	0.99	y	47:35	0.70	19.8		-	-	*	
PCB-199	1.38e+07	0.91	y	47:41	0.70	459		-	-	*	
PCB-203	1.67e+07	0.92	y	47:56	0.83	469		-	-	*	Co-elute PCB 196
PCB-196	1.67e+07	0.92	y	47:56	0.83	469		-	-	*	Co-elute PCB 203
13C-PCB-202	8.38e+07	0.92	y	44:47	0.89	1730					88.8
13C-PCB-178	6.73e+07	1.08	y	42:19	0.78	1580					80.8
13C-PCB-138	1.06e+08	1.29	y	46:45	-	38.0					
PCB-195	6.36e+06	0.89	y	49:03	0.67	179		-	-	*	
PCB-194	1.63e+07	0.89	y	49:51	0.84	368		-	-	*	
PCB-205	1.11e+06	0.85	y	50:06	1.06	19.8		-	-	*	
13C-PCB-205	1.03e+08	0.90	y	50:05	1.30	1870					95.7
PCB-208	1.88e+06	1.36	y	49:10	1.09	36.7		-	-	*	
13C-PCB-208	9.21e+07	0.81	y	49:10	1.05	2060					106
PCB-207	9.79e+05	1.31	y	49:26	1.22	20.0		-	-	*	
PCB-206	5.35e+06	1.36	y	51:19	1.08	148		-	-	*	
13C-PCB-206	6.50e+07	0.82	y	51:18	0.89	1710					87.8
PCB-209	2.58e+06	1.21	y	52:30	1.14	60.4		-	-	*	
13C-PCB-209	7.30e+07	1.21	y	52:29	1.10	1550					79.5
13C-PCB-194	8.31e+07	0.91	y	49:50	-	30.9					

Analyst: _____ Date: 7/25/19

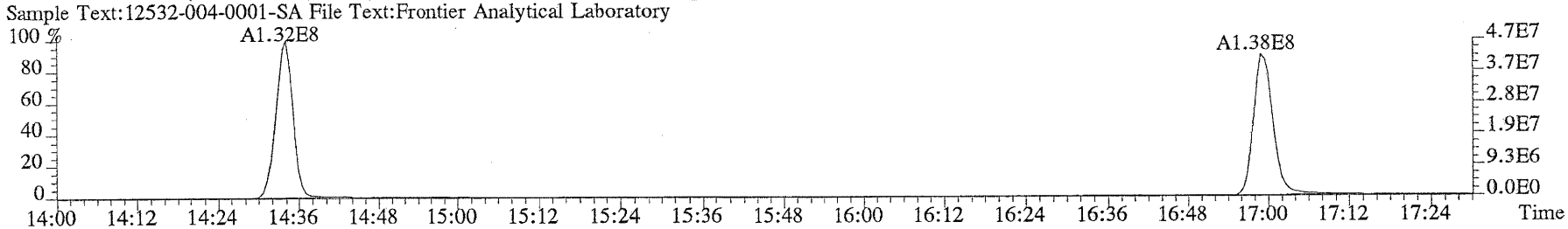
File:24JUL19Z #1-783 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



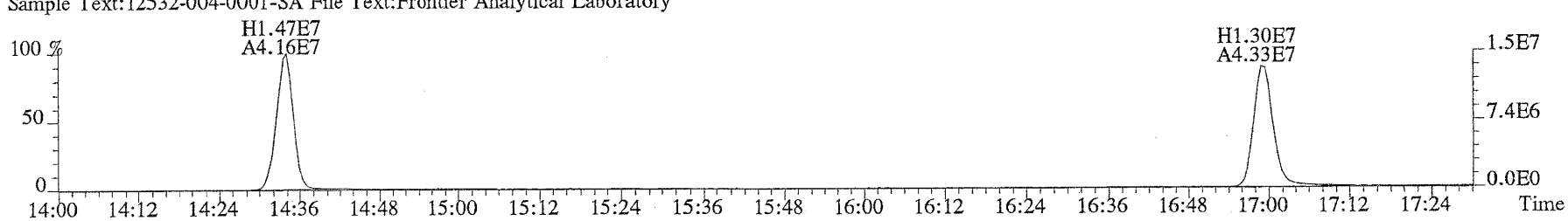
File:24JUL19Z #1-783 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



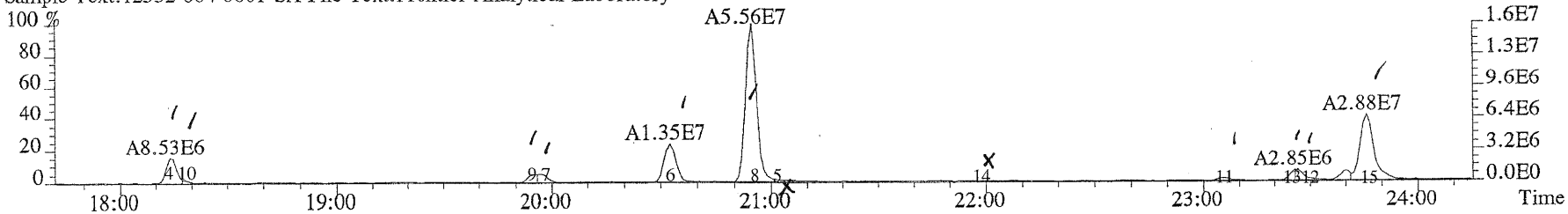
File:24JUL19Z #1-783 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



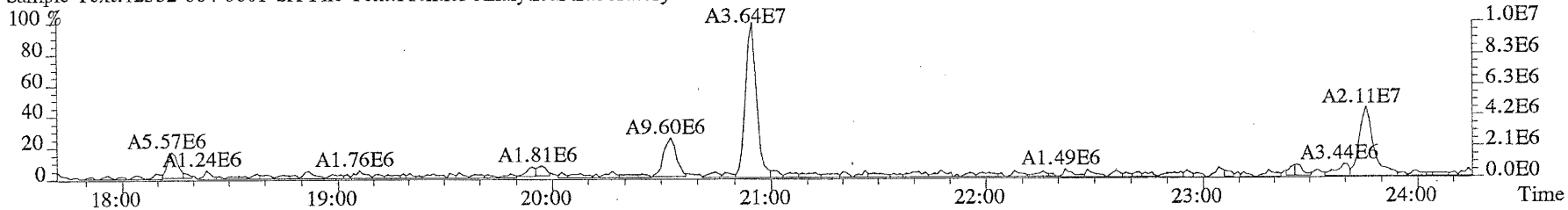
File:24JUL19Z #1-783 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



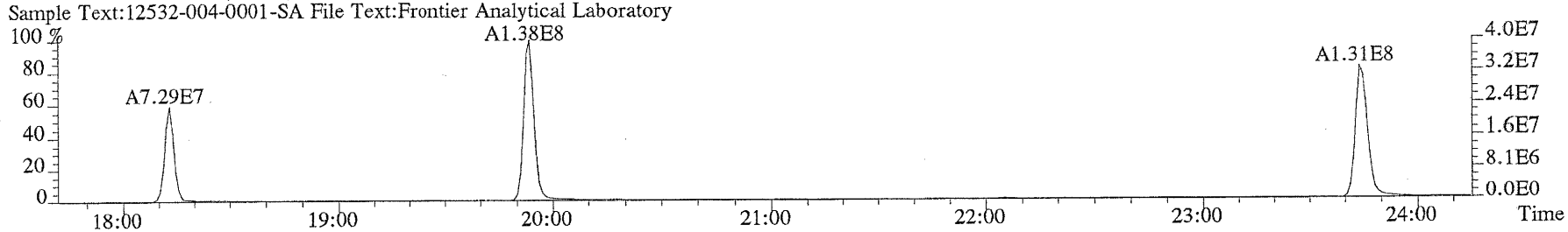
File:24JUL19Z #1-520 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



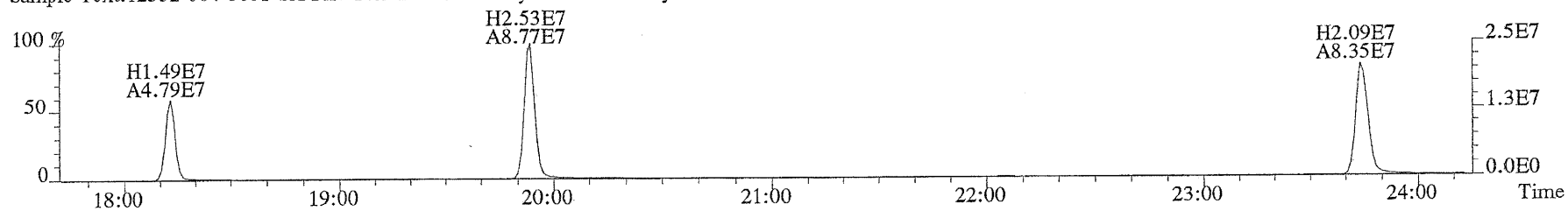
File:24JUL19Z #1-520 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



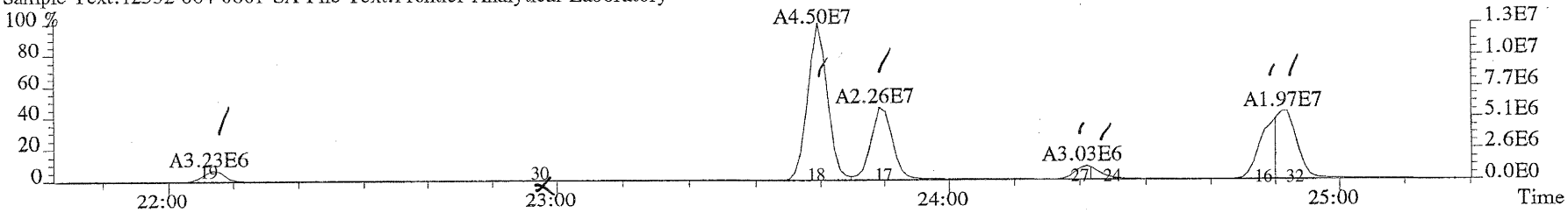
File:24JUL19Z #1-520 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



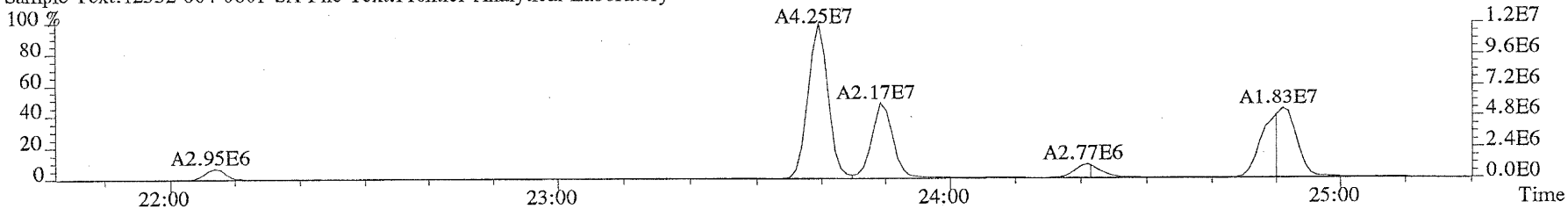
File:24JUL19Z #1-520 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



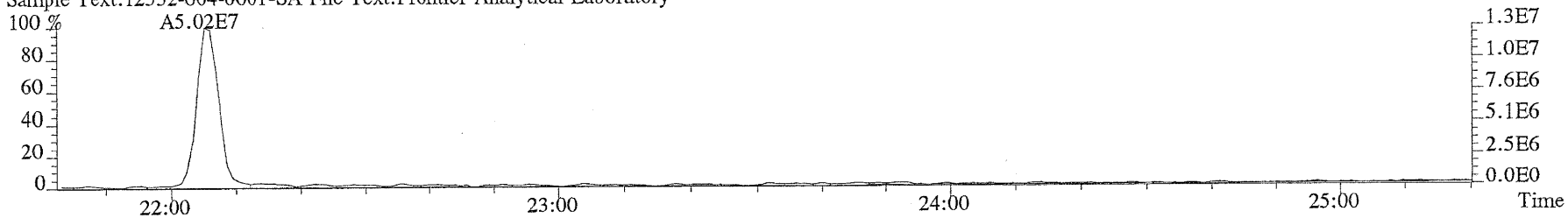
File:24JUL19Z #1-520 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



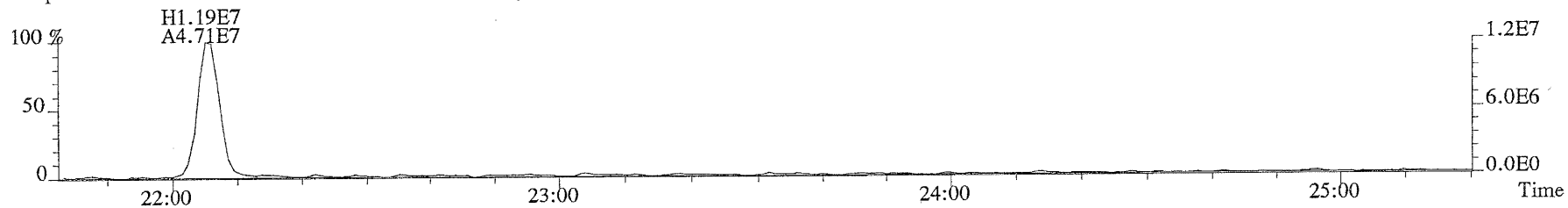
File:24JUL19Z #1-520 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



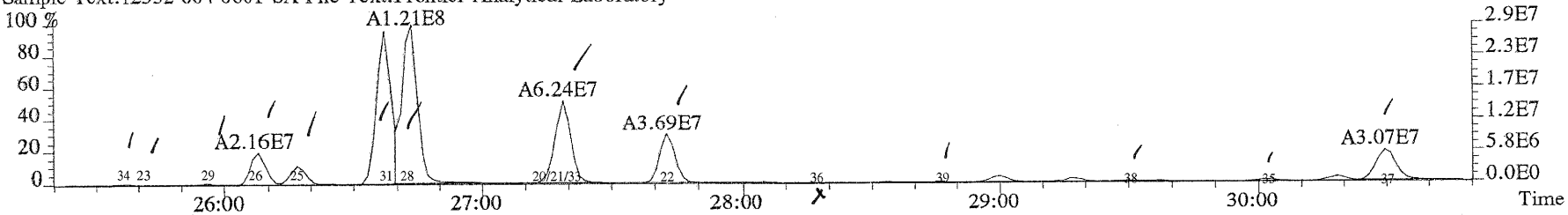
File:24JUL19Z #1-520 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



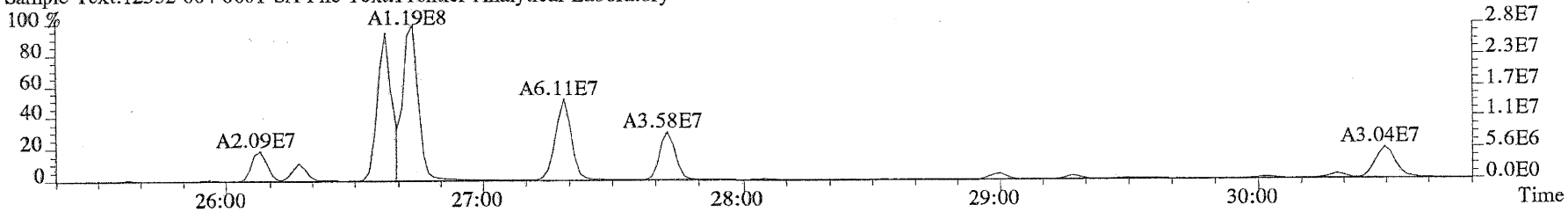
File:24JUL19Z #1-520 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



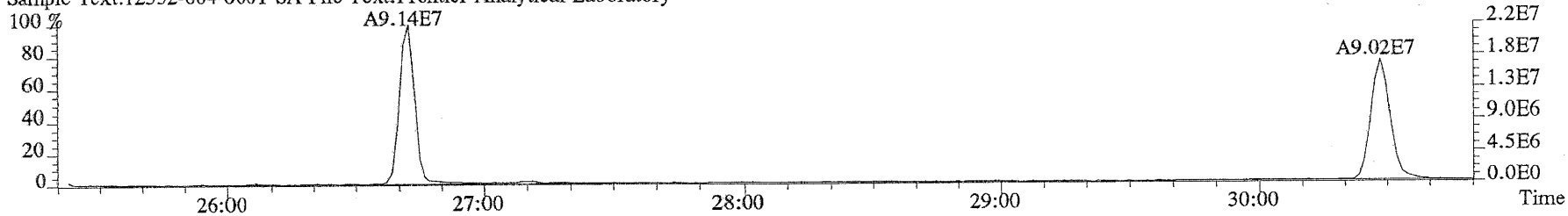
File:24JUL19Z #1-401 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



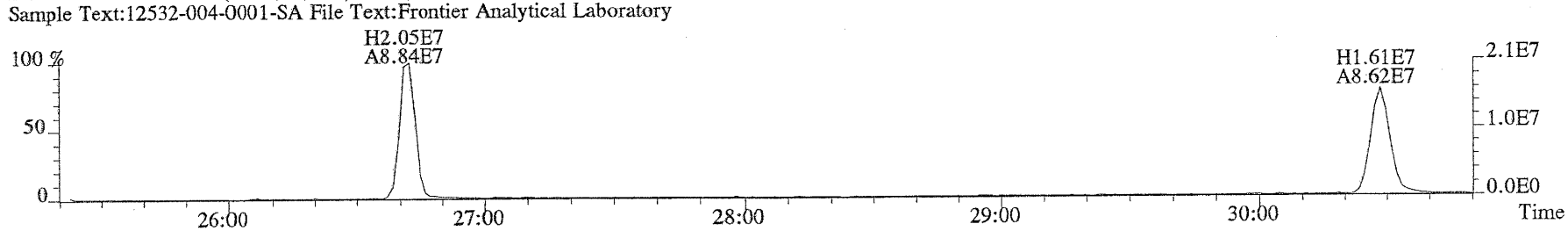
File:24JUL19Z #1-401 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



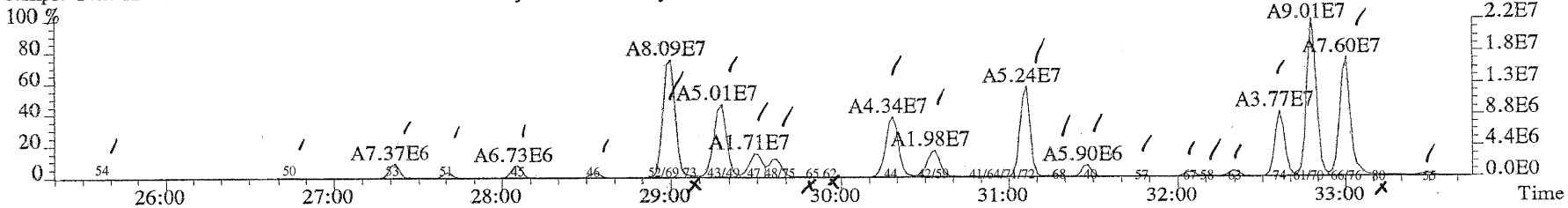
File:24JUL19Z #1-401 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



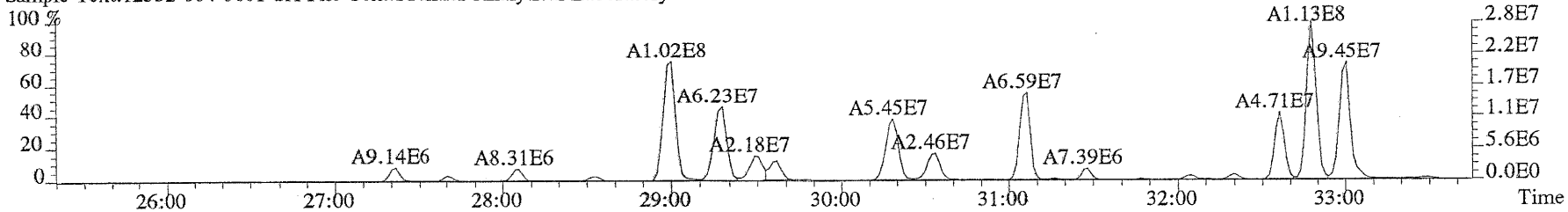
File:24JUL19Z #1-401 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



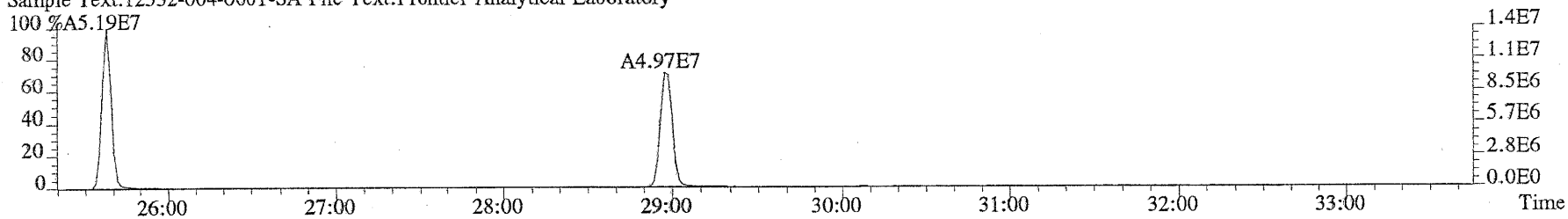
File:24JUL19Z #1-401 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



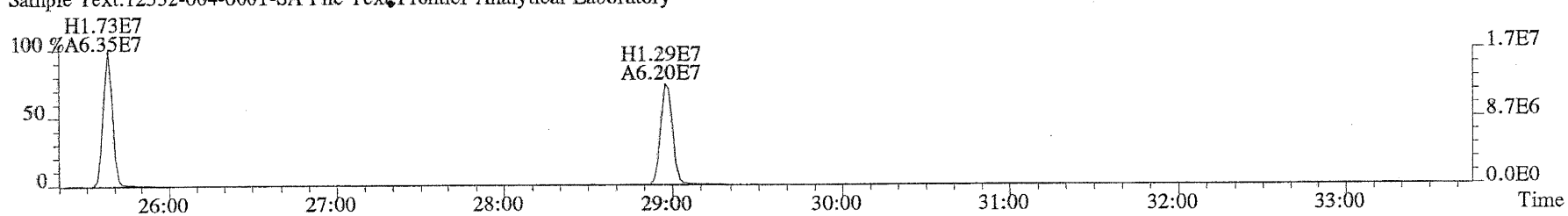
File:24JUL19Z #1-401 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



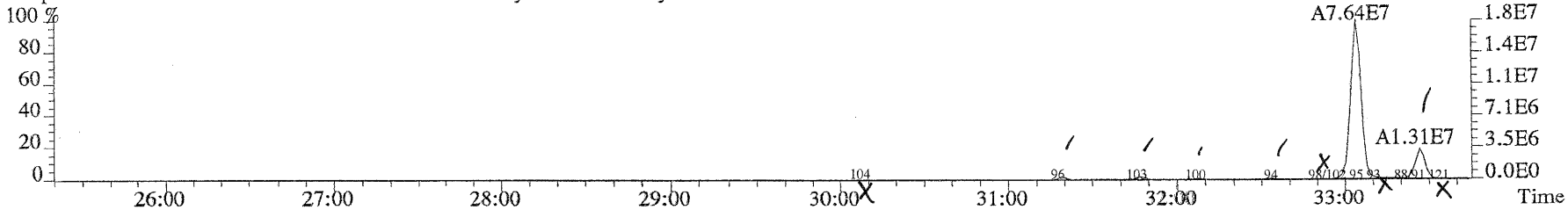
File:24JUL19Z #1-401 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



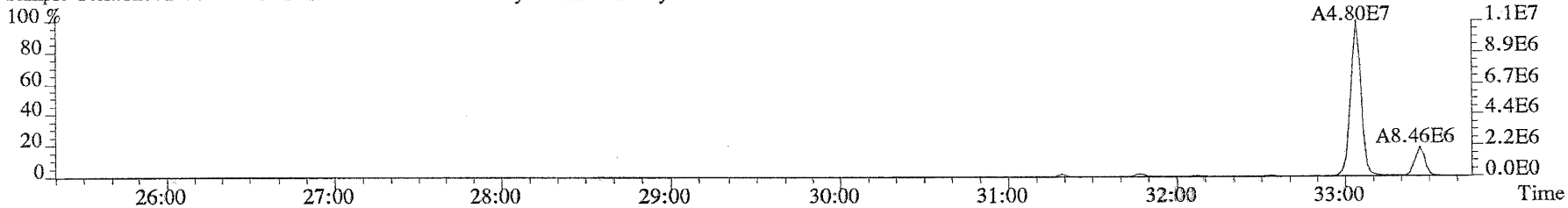
File:24JUL19Z #1-401 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



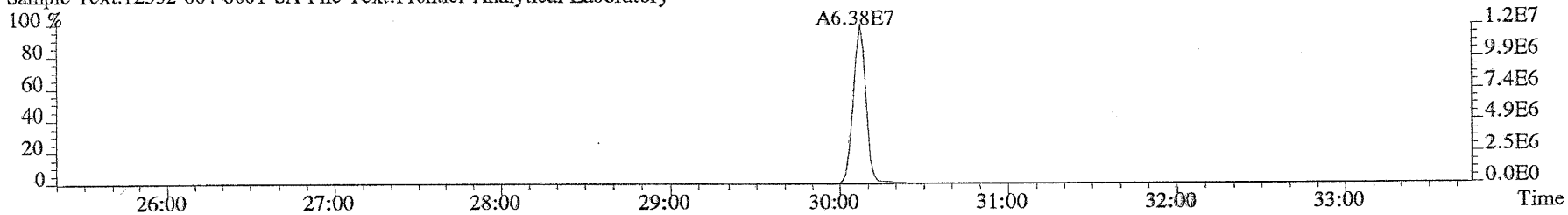
File:24JUL19Z #1-401 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



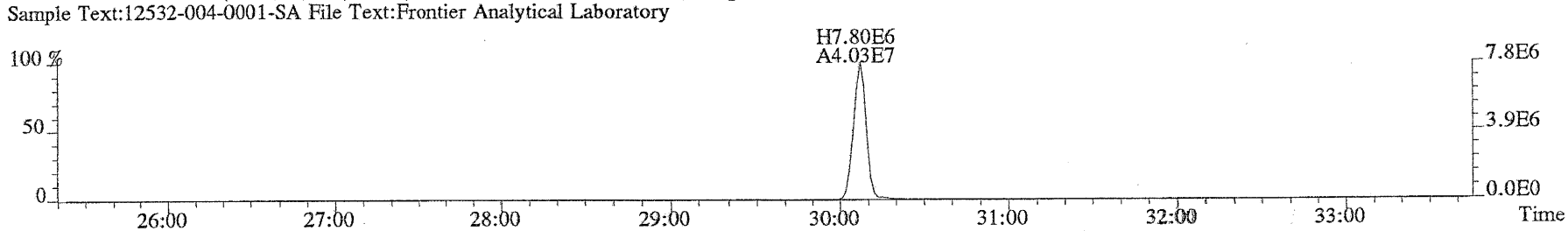
File:24JUL19Z #1-401 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



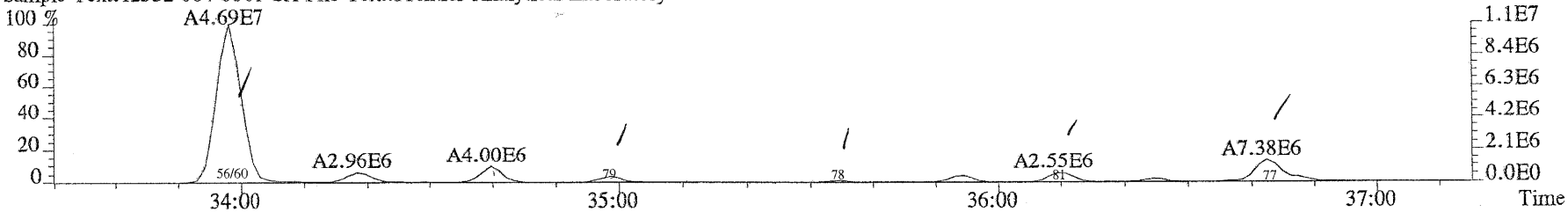
File:24JUL19Z #1-401 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



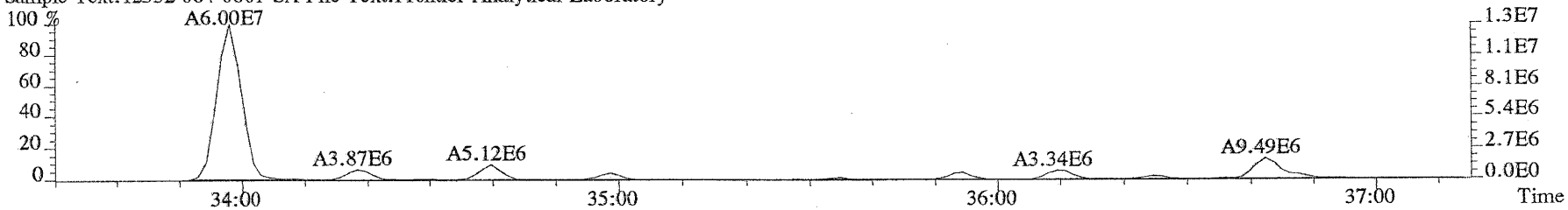
File:24JUL19Z #1-401 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



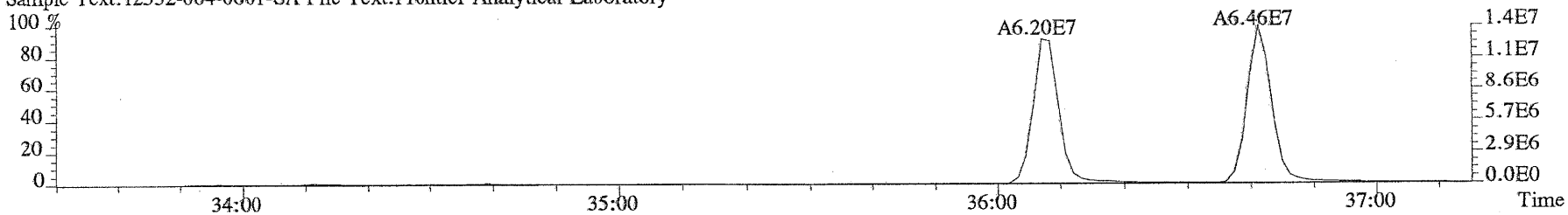
File:24JUL19Z #1-181 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



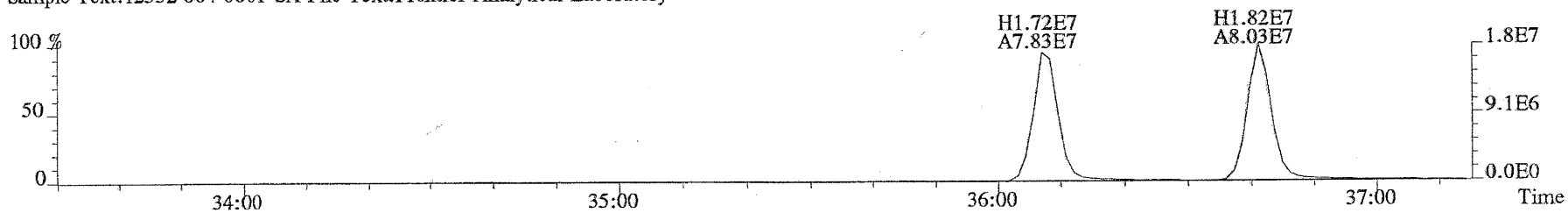
File:24JUL19Z #1-181 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



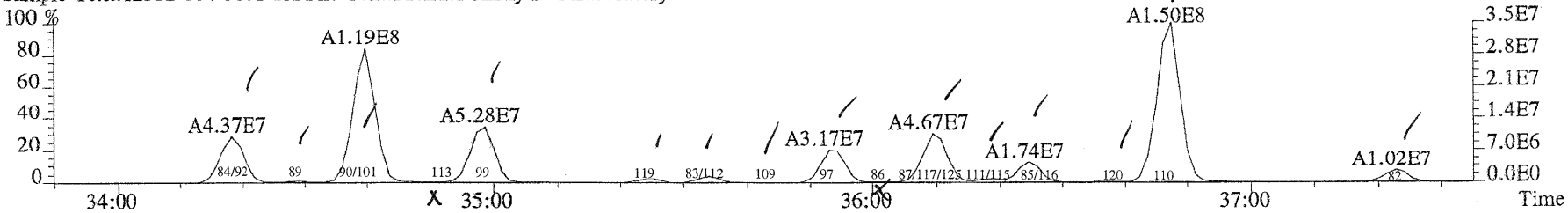
File:24JUL19Z #1-181 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



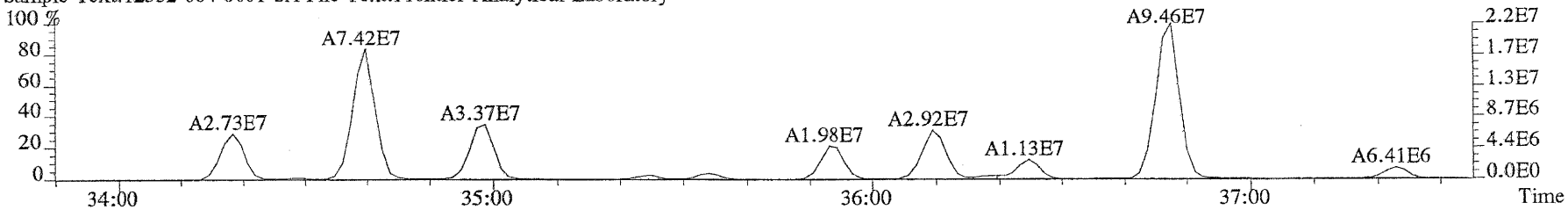
File:24JUL19Z #1-181 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



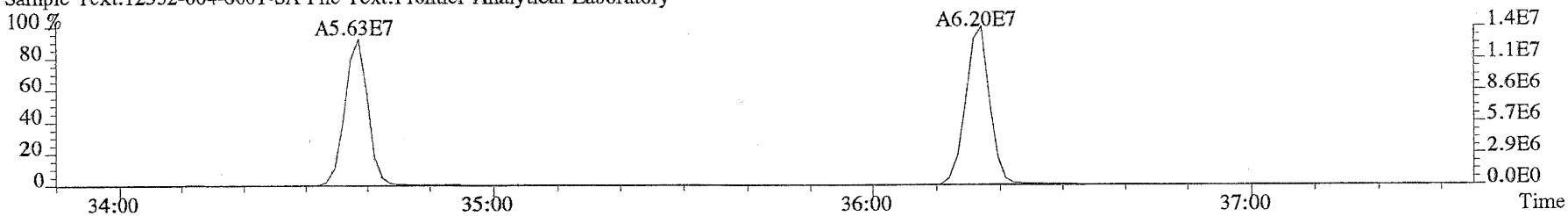
File:24JUL19Z #1-181 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



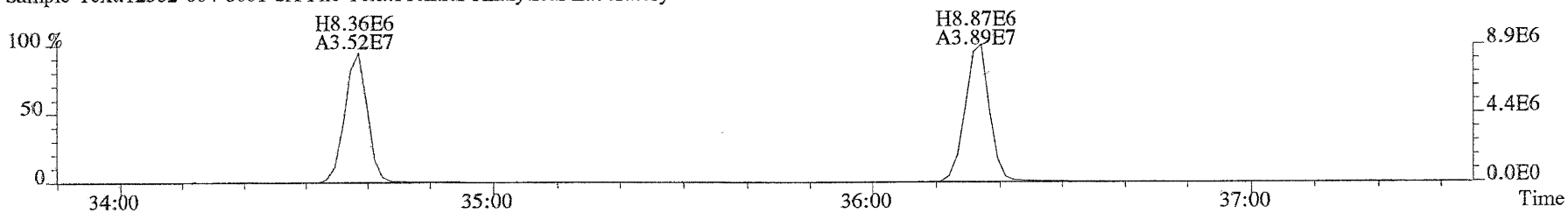
File:24JUL19Z #1-181 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



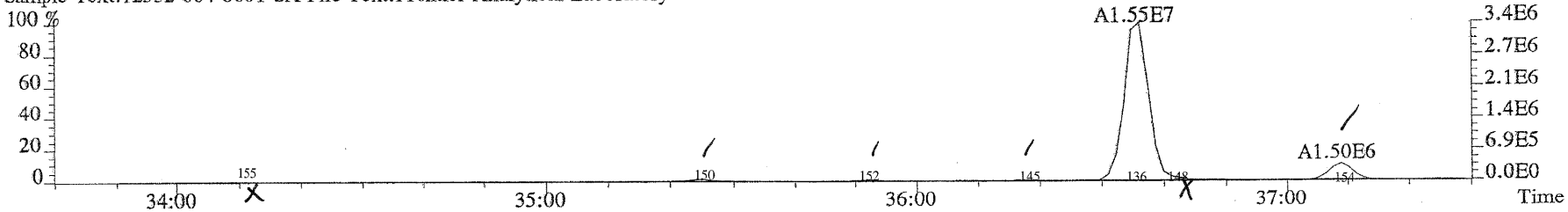
File:24JUL19Z #1-181 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



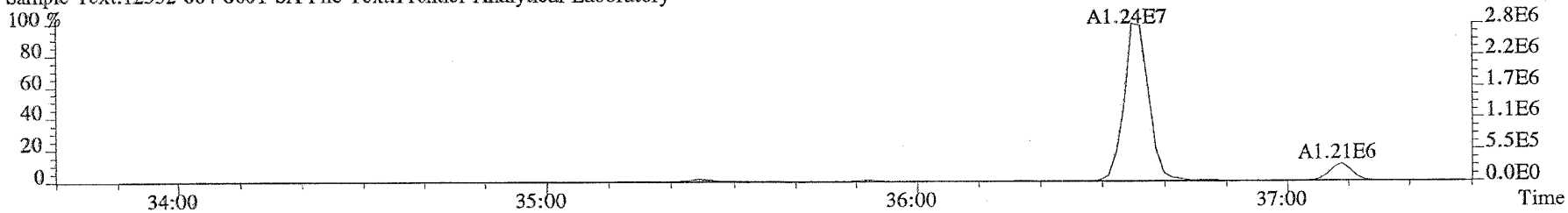
File:24JUL19Z #1-181 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



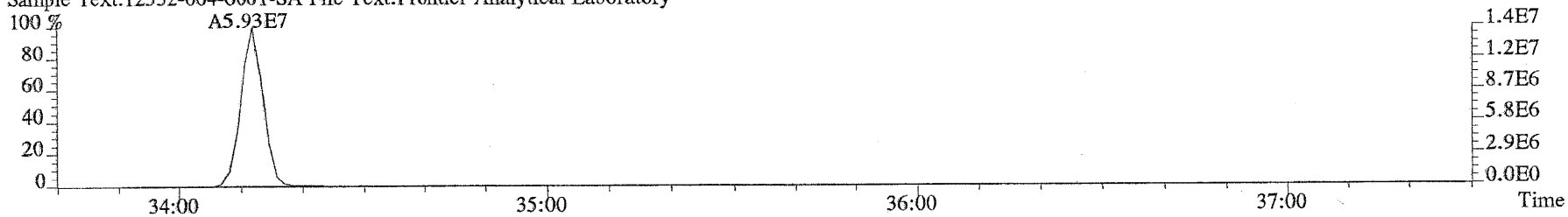
File:24JUL19Z #1-181 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



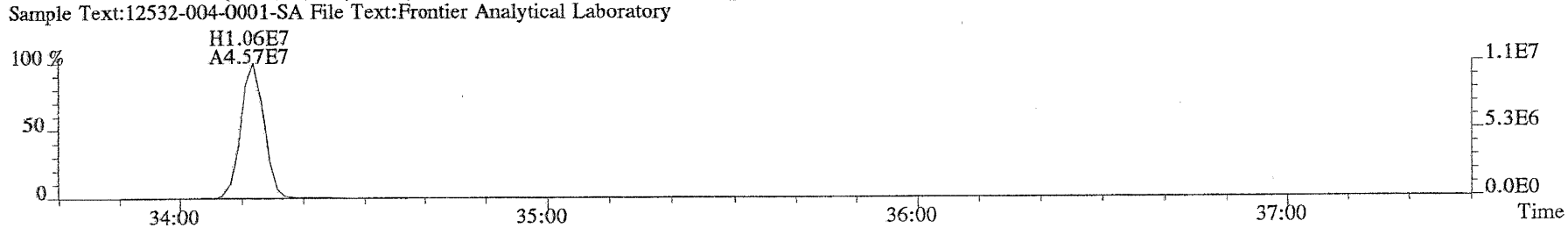
File:24JUL19Z #1-181 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



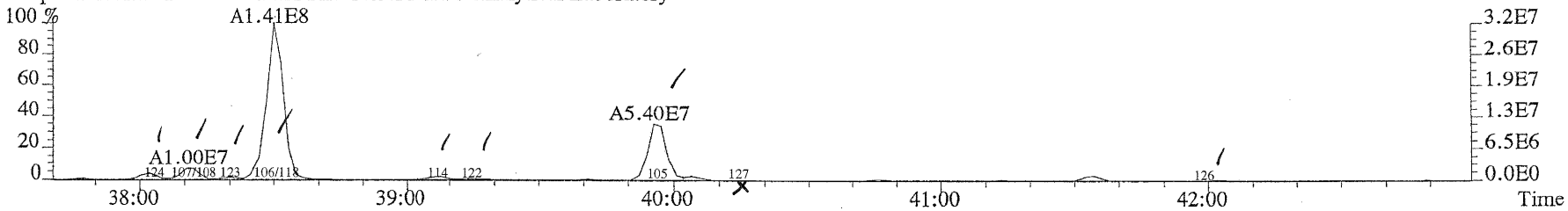
File:24JUL19Z #1-181 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



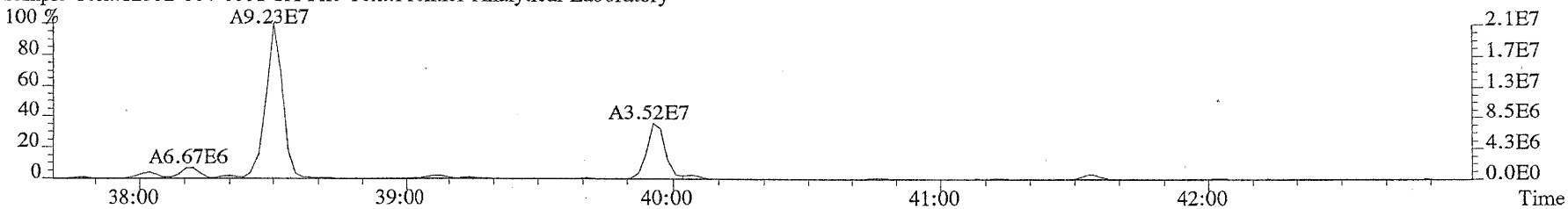
File:24JUL19Z #1-181 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



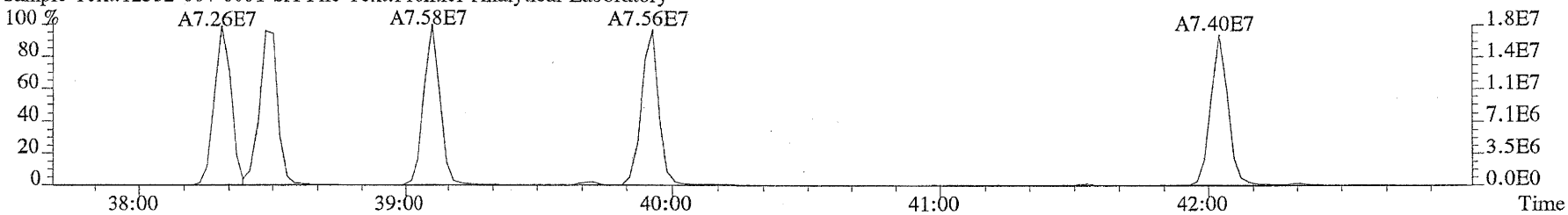
File:24JUL19Z #1-405 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



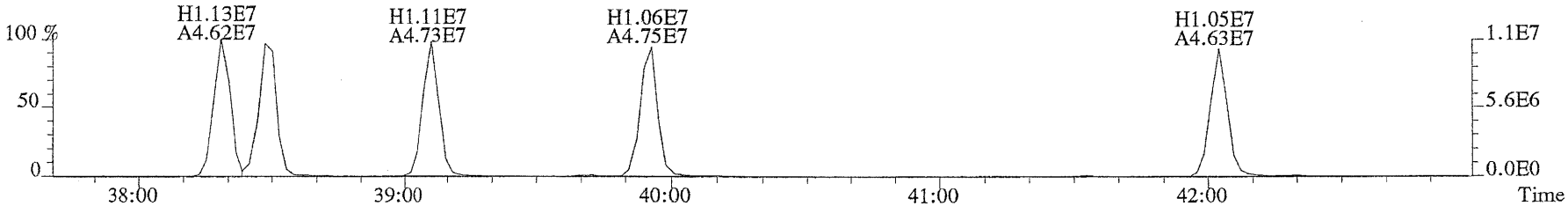
File:24JUL19Z #1-405 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



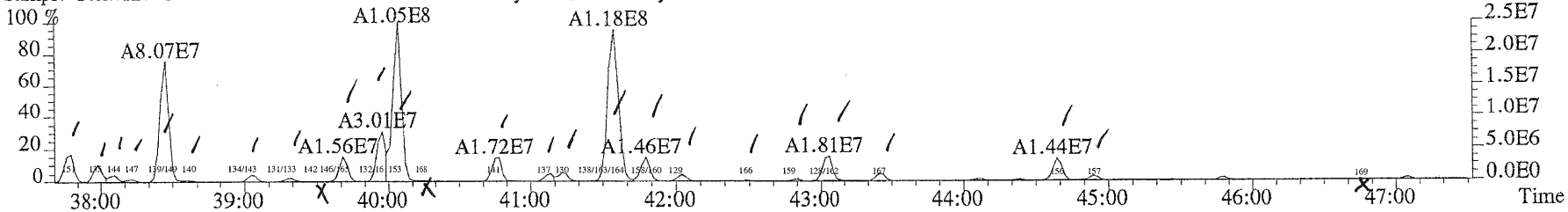
File:24JUL19Z #1-405 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



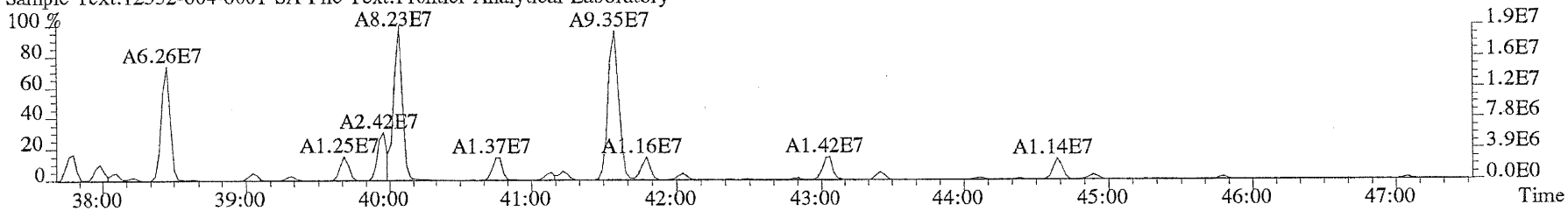
File:24JUL19Z #1-405 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



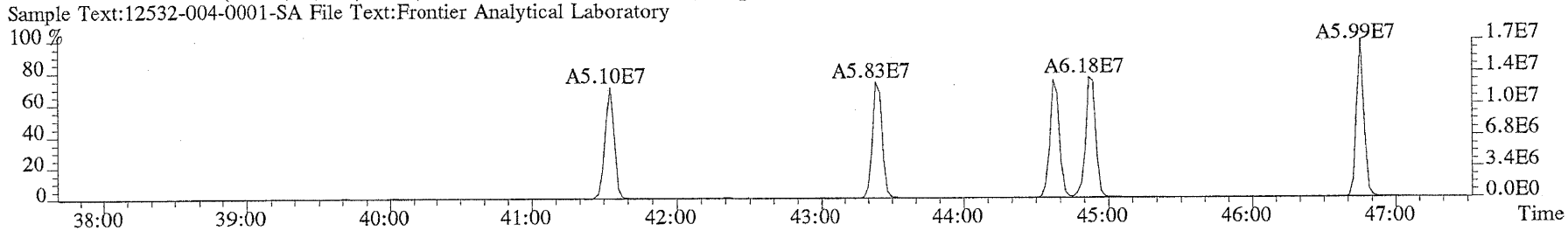
File:24JUL19Z #1-405 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



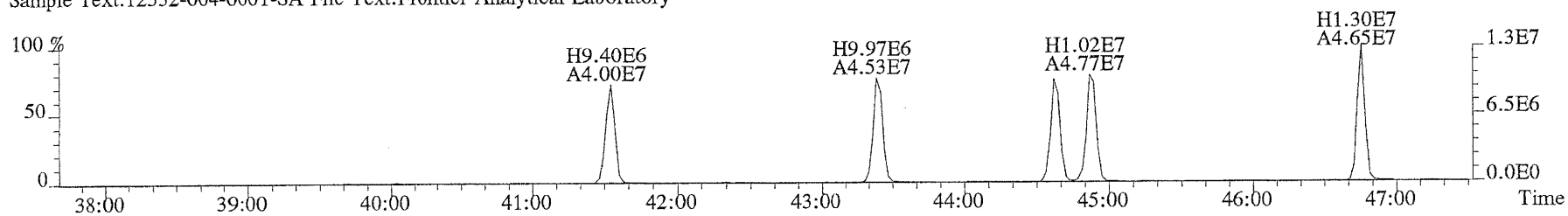
File:24JUL19Z #1-405 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



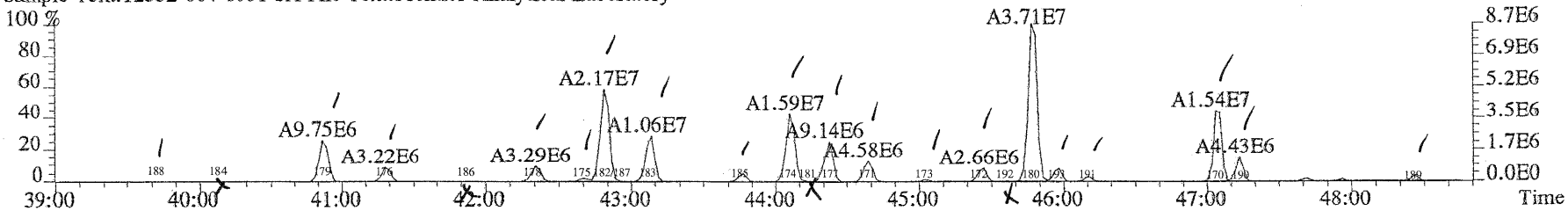
File:24JUL19Z #1-405 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



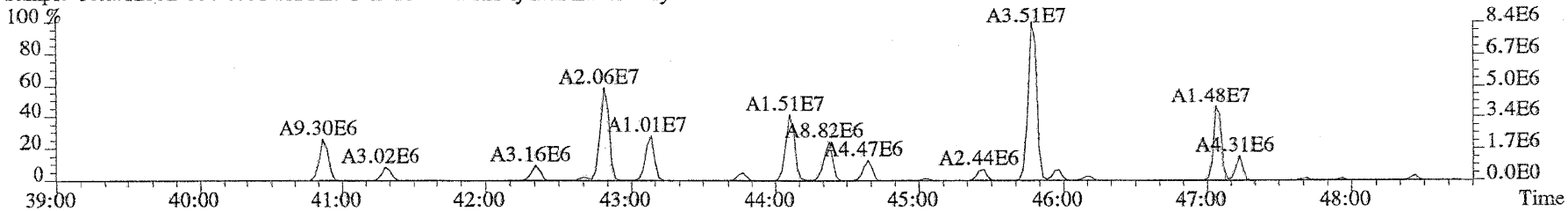
File:24JUL19Z #1-405 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



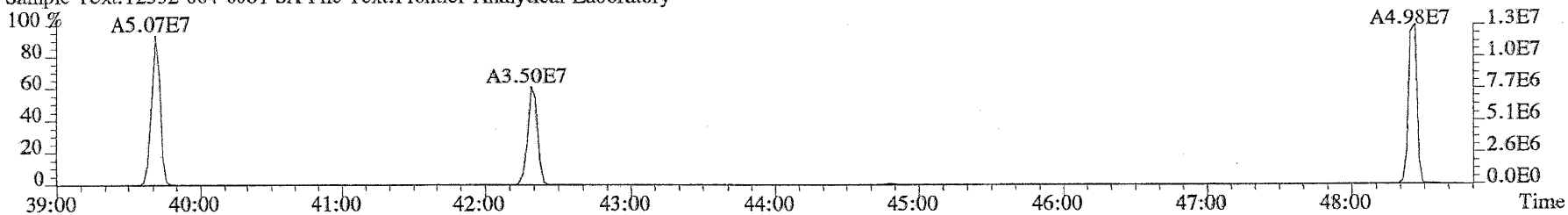
File:24JUL19Z #1-405 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



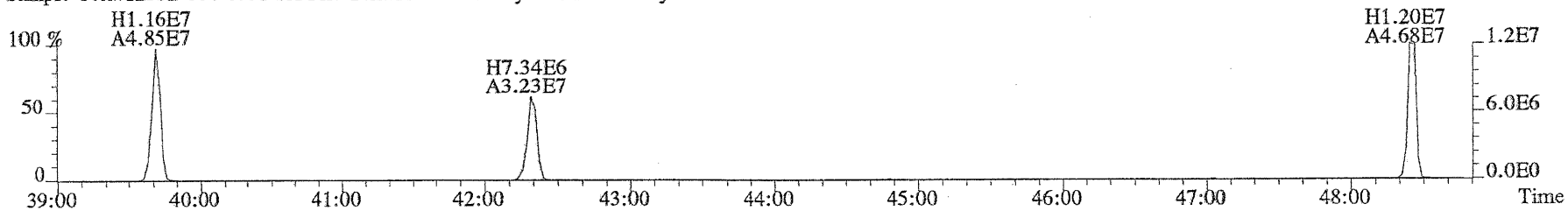
File:24JUL19Z #1-405 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



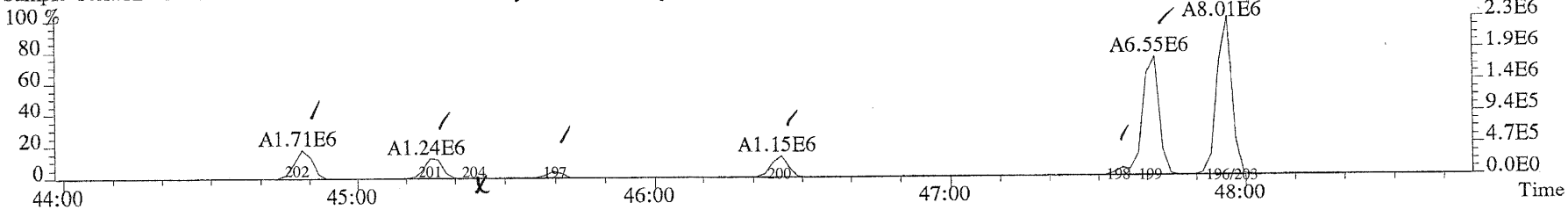
File:24JUL19Z #1-405 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



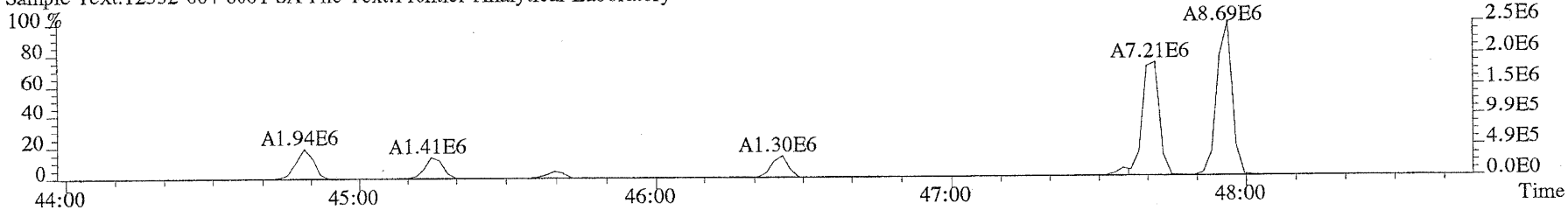
File:24JUL19Z #1-405 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



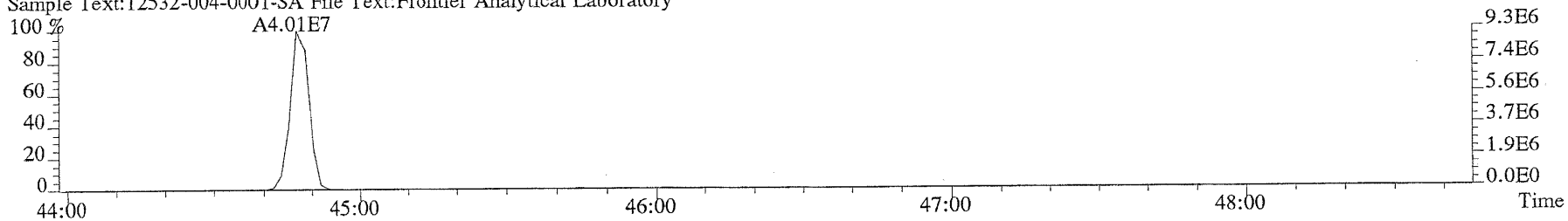
File:24JUL19Z #1-405 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



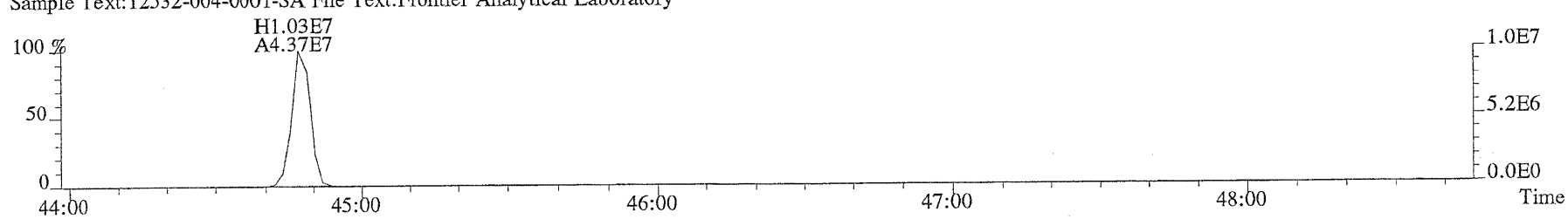
File:24JUL19Z #1-405 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



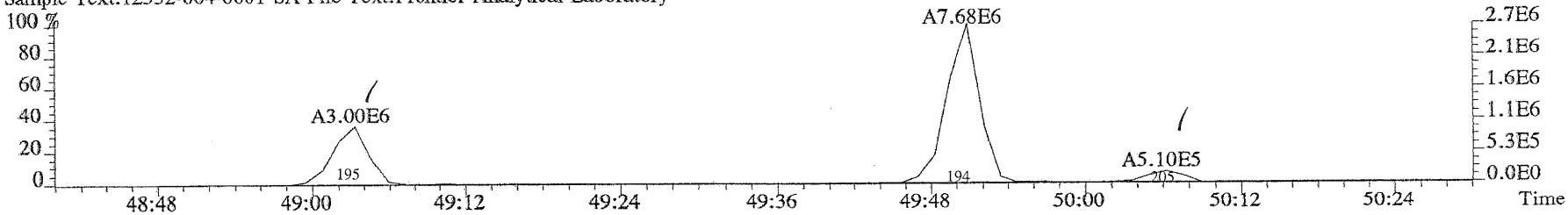
File:24JUL19Z #1-405 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



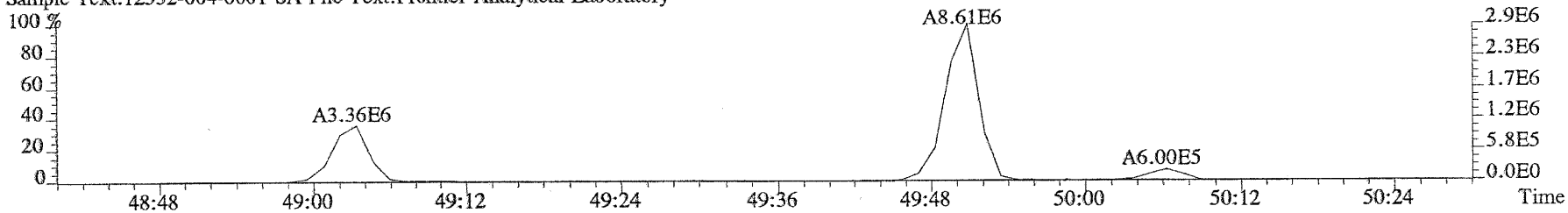
File:24JUL19Z #1-405 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



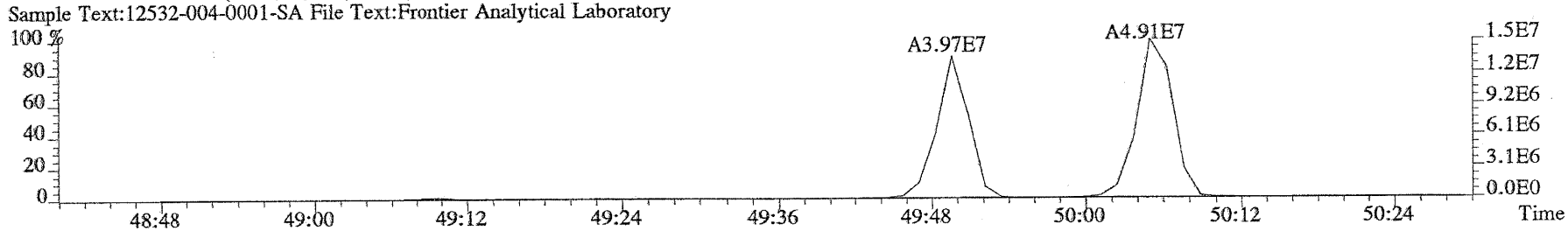
File:24JUL19Z #1-315 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



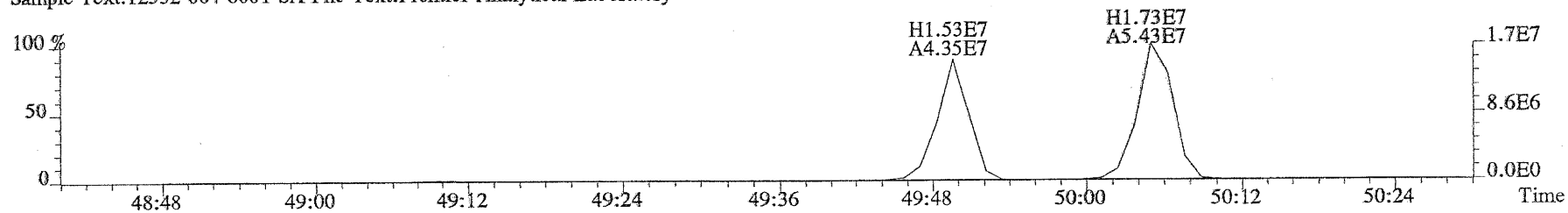
File:24JUL19Z #1-315 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



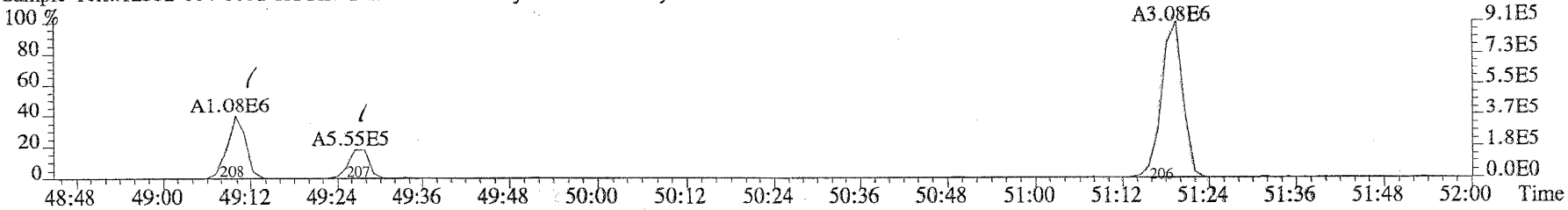
File:24JUL19Z #1-315 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



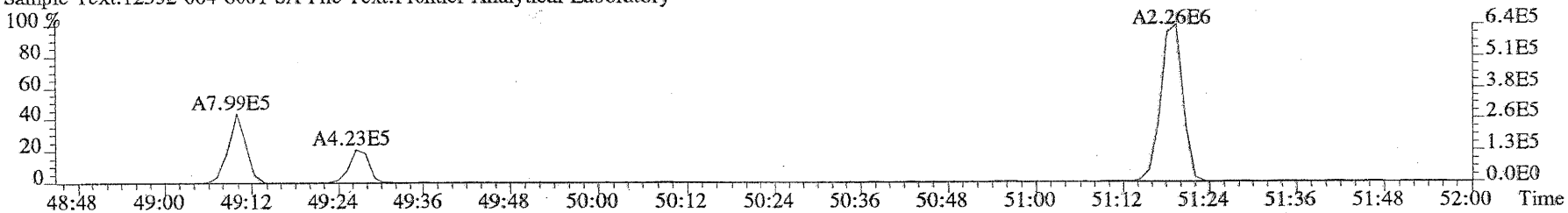
File:24JUL19Z #1-315 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



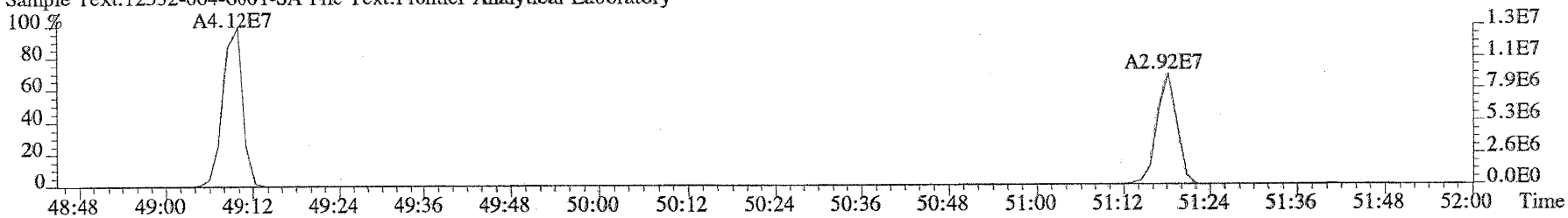
File:24JUL19Z #1-315 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



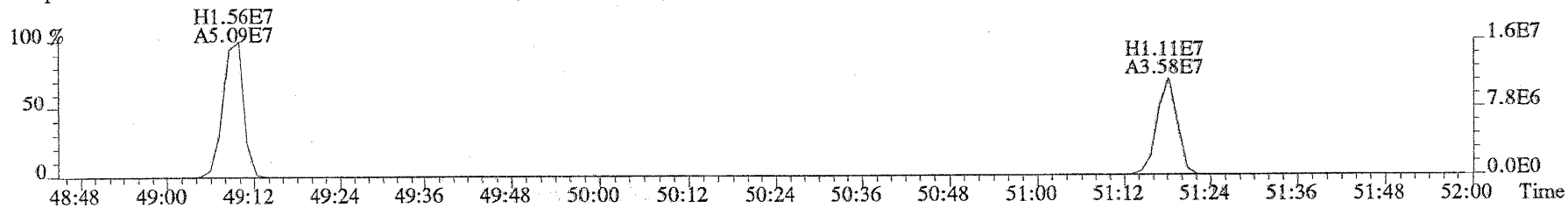
File:24JUL19Z #1-315 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



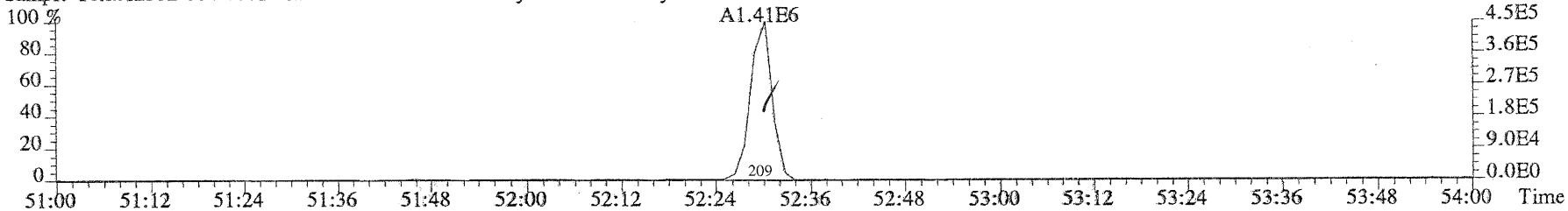
File:24JUL19Z #1-315 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



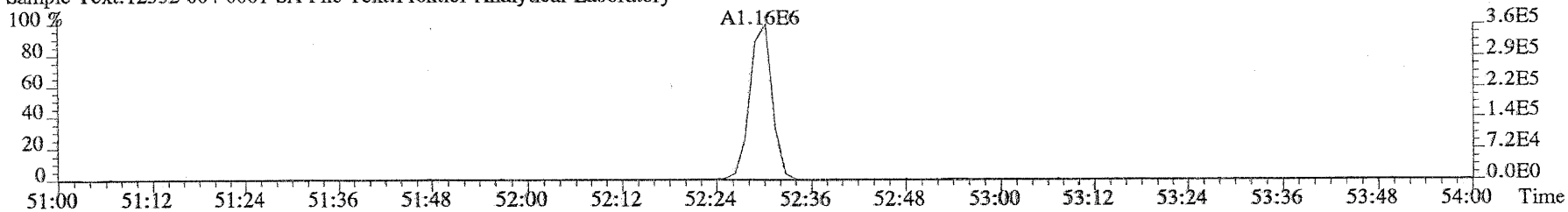
File:24JUL19Z #1-315 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



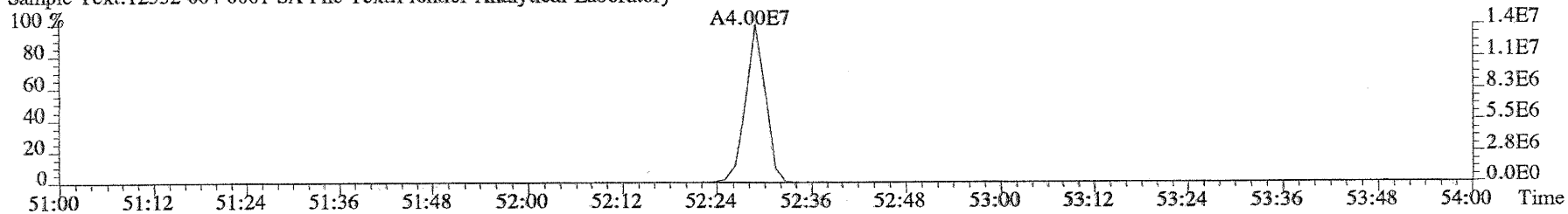
File:24JUL19Z #1-315 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



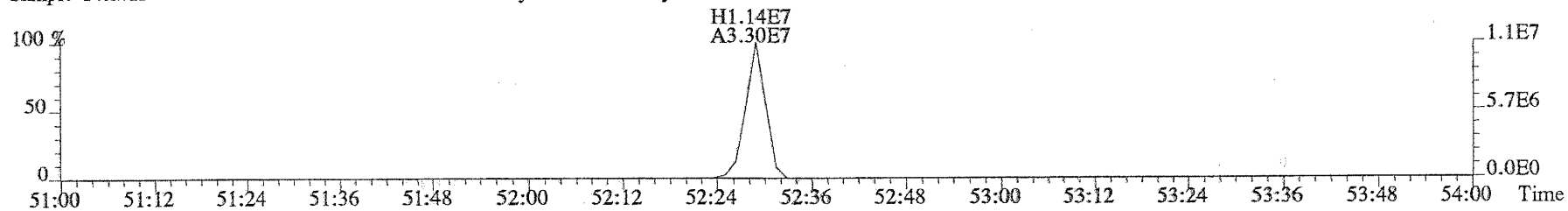
File:24JUL19Z #1-315 Acq:24-JUL-2019 17:52:39 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-004-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 17:52:39 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:12532-004-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 17:52:39 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:12532-004-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12532-005-0001-SA Filename: 24JUL19Z Sam:9 Acquired: 24-JUL-19 18:51:01 ICal: DAILYFAL4-7-24-19
Client ID: LDW-Y2-SU-ENR+AC-CB-CORE ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 5.040

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	4.06e+06	3.06 y	14:35	1.19	30.9		-	-	*	
13C-PCB-1	2.19e+08	3.19 y	14:33	0.82	1970					99.3
PCB-2	5.31e+05	2.87 y	16:47	1.22	3.85	J	-	-	*	
PCB-3	2.75e+06	3.00 y	17:00	1.21	19.5		-	-	*	
13C-PCB-3	2.31e+08	3.18 y	16:59	0.85	2010					101
PCB-4	9.47e+06	1.48 y	18:14	1.14	108		-	-	*	
PCB-10	1.01e+06	1.51 y	18:18	1.32	7.28		-	-	*	
13C-PCB-4	1.53e+08	1.55 y	18:13	0.63	1800					90.9
PCB-9	3.38e+06	1.45 y	19:55	1.39	23.1		-	-	*	
PCB-7	3.21e+06	1.44 y	19:56	1.42	21.5		-	-	*	
PCB-6	1.68e+07	1.38 y	20:33	1.39	115		-	-	*	
PCB-8	6.00e+07	1.48 y	20:55	1.41	404		-	-	*	
PCB-5	*	* n	NotFnd	1.37	*		1580	7770	0.597	
PCB-14	*	* n	NotFnd	1.31	*		1580	7770	0.627	
PCB-11	3.04e+06	1.53 y	23:05	1.23	23.6		-	-	*	
PCB-13	1.98e+06	1.45 y	23:25	1.26	15.0		-	-	*	
PCB-12	4.52e+06	1.50 y	23:26	1.26	34.2		-	-	*	
PCB-15	3.24e+07	1.47 y	23:46	1.16	209		-	-	*	
13C-PCB-15	2.64e+08	1.59 y	23:44	0.96	2030					102
PCB-19	4.21e+06	1.07 y	22:07	1.16	59.2		-	-	*	
PCB-30	*	* n	NotFnd	1.82	*		5230	1850	0.578	
PCB-18	5.81e+07	1.07 y	23:40	1.20	792		-	-	*	
PCB-17	2.99e+07	1.06 y	23:49	1.30	376		-	-	*	
PCB-27	3.51e+06	1.08 y	24:21	1.77	32.5		-	-	*	
PCB-24	3.17e+06	1.06 y	24:22	1.77	29.3		-	-	*	
PCB-16	2.07e+07	0.97 y	24:50	1.48	227		-	-	*	
PCB-32	2.33e+07	1.13 y	24:52	1.48	256		-	-	*	
13C-PCB-19	1.22e+08	1.05 y	22:05	0.45	2000					101
13C-PCB-9	2.68e+08	1.57 y	19:53	-	31.2					
PCB-34	1.19e+06	1.08 y	25:36	1.16	10.1		-	-	*	
PCB-23	2.34e+05	1.16 y	25:43	1.33	1.74	J	-	-	*	
PCB-29	1.14e+06	1.19 y	25:57	1.33	8.47		-	-	*	
PCB-26	3.38e+07	1.03 y	26:08	1.27	263		-	-	*	
PCB-25	2.00e+07	1.05 y	26:17	1.22	162		-	-	*	
PCB-31	1.35e+08	1.03 y	26:37	1.20	1110		-	-	*	
PCB-28	1.67e+08	1.04 y	26:43	1.55	1060		-	-	*	
PCB-20	8.43e+07	1.03 y	27:19	1.23	677		-	-	*	Co-elute PCB 21/33
PCB-21	8.43e+07	1.03 y	27:19	1.23	677		-	-	*	Co-elute PCB 20/33
PCB-33	8.43e+07	1.03 y	27:19	1.23	677		-	-	*	Co-elute PCB 20/21
PCB-22	4.91e+07	1.02 y	27:43	1.37	354		-	-	*	
PCB-36	*	* n	NotFnd	1.27	*		1840	1740	0.373	
PCB-39	4.11e+05	0.99 y	28:46	1.24	3.28	J	-	-	*	
PCB-38	1.14e+06	1.11 y	29:29	1.27	8.88		-	-	*	
PCB-35	2.01e+06	1.06 y	30:03	1.12	17.8		-	-	*	
PCB-37	3.80e+07	1.05 y	30:30	1.17	322		-	-	*	
13C-PCB-37	2.01e+08	1.08 y	30:29	1.46	2060					104

PCB-54	2.73e+05	0.79	y	25:39	1.26	3.05	J		-	-	*	
PCB-50	3.41e+05	0.85	y	26:45	0.99	4.85			-	-	*	
PCB-53	1.16e+07	0.79	y	27:21	0.98	167			-	-	*	
PCB-51	3.88e+06	0.80	y	27:40	1.01	54.0			-	-	*	
PCB-45	1.00e+07	0.82	y	28:06	0.83	169			-	-	*	
PCB-46	3.95e+06	0.80	y	28:33	0.81	68.9			-	-	*	
PCB-52	1.25e+08	0.79	y	29:00	1.05	1680			-	-	*	Co-elute PCB 69
PCB-69	1.25e+08	0.79	y	29:00	1.05	1680			-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.20	*			1920	2210	0.453	
PCB-43	8.08e+07	0.80	y	29:18	0.91	1250			-	-	*	Co-elute PCB 49
PCB-49	8.08e+07	0.80	y	29:18	0.91	1250			-	-	*	Co-elute PCB 43
PCB-47	2.71e+07	0.77	y	29:30	0.92	416			-	-	*	
PCB-48	1.99e+07	0.77	y	29:37	1.19	236			-	-	*	Co-elute PCB 75
PCB-75	1.99e+07	0.77	y	29:37	1.19	236			-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.20	*			1920	2210	0.453	
PCB-62	*	*	n	NotFnd	1.16	*			1920	2210	0.470	
PCB-44	6.37e+07	0.79	y	30:18	0.78	1150			-	-	*	
PCB-42	2.88e+07	0.79	y	30:34	1.01	403			-	-	*	Co-elute PCB 59
PCB-59	2.88e+07	0.79	y	30:34	1.01	403			-	-	*	Co-elute PCB 42
PCB-72	7.17e+07	0.79	y	31:10	1.14	884			-	-	*	Co-elute PCB 41/71/64
PCB-41	7.17e+07	0.79	y	31:10	1.14	884			-	-	*	Co-elute PCB 72/71/64
PCB-71	7.17e+07	0.79	y	31:10	1.14	884			-	-	*	Co-elute PCB 72/41/64
PCB-64	7.17e+07	0.79	y	31:10	1.14	884			-	-	*	Co-elute PCB 72/41/71
PCB-68	1.17e+06	0.81	y	31:20	1.33	12.4			-	-	*	
PCB-40	8.28e+06	0.81	y	31:30	0.71	165			-	-	*	
PCB-57	1.03e+06	0.80	y	31:48	1.21	12.0			-	-	*	
PCB-67	4.77e+06	0.79	y	32:05	1.19	56.7			-	-	*	
PCB-58	6.15e+05	0.83	y	32:11	1.22	7.11			-	-	*	
PCB-63	5.01e+06	0.78	y	32:21	1.22	57.9			-	-	*	
PCB-74	5.51e+07	0.79	y	32:36	1.22	639			-	-	*	
PCB-61	1.31e+08	0.79	y	32:49	1.10	1680			-	-	*	Co-elute PCB 70
PCB-70	1.31e+08	0.79	y	32:49	1.10	1680			-	-	*	Co-elute PCB 61
PCB-76	1.15e+08	0.79	y	33:00	1.25	1290			-	-	*	Co-elute PCB 66
PCB-66	1.15e+08	0.79	y	33:00	1.25	1290			-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.40	*			1920	2210	0.390	
PCB-55	2.78e+06	0.82	y	33:29	1.22	32.1			-	-	*	
13C-PCB-54	1.41e+08	0.82	y	25:38	1.21	1740						87.5
PCB-104	*	*	n	NotFnd	1.12	*			804	936	0.326	
PCB-96	9.41e+05	1.58	y	31:24	1.06	14.1			-	-	*	
PCB-103	2.59e+06	1.56	y	31:48	0.86	47.5			-	-	*	
PCB-100	7.85e+05	1.52	y	32:08	0.86	14.5			-	-	*	
PCB-94	5.26e+05	1.50	y	32:34	0.72	11.6			-	-	*	
PCB-98	*	*	n	NotFnd	0.78	*			804	936	0.466	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.78	*			804	936	0.466	Co-elute PCB 98
PCB-95	9.21e+07	1.57	y	33:04	0.73	1990			-	-	*	
PCB-93	*	*	n	NotFnd	0.72	*			804	936	0.503	
PCB-88	1.53e+07	1.57	y	33:27	0.84	289			-	-	*	Co-elute PCB 91
PCB-91	1.53e+07	1.57	y	33:27	0.84	289			-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.95	*			804	936	0.384	
13C-PCB-104	1.25e+08	1.59	y	30:07	1.00	1870						94.1
13C-PCB-28	2.22e+08	1.05	y	26:42	1.75	1900						95.8
13C-PCB-52	1.33e+08	0.80	y	28:59	-	32.9						

PCB-56	6.75e+07	0.78	y	33:58	1.14	654		-	-	*	Co-elute PCB 60
PCB-60	6.75e+07	0.78	y	33:58	1.14	654		-	-	*	Co-elute PCB 56
PCB-79	3.10e+06	0.76	y	34:59	1.24	27.5		-	-	*	
PCB-78	8.65e+05	0.82	y	35:34	1.20	7.98		-	-	*	
PCB-81	3.97e+06	0.75	y	36:11	1.21	36.6		-	-	*	
13C-PCB-81	1.77e+08	0.80	y	36:08	1.53	2090					105
PCB-77	1.11e+07	0.80	y	36:42	1.04	116		-	-	*	
13C-PCB-77	1.82e+08	0.80	y	36:41	1.54	2140					108
PCB-155	*	*	n	NotFnd	1.05	*		1080	952	0.313	
PCB-150	5.35e+05	1.18	y	35:25	0.95	8.28		-	-	*	
PCB-152	1.69e+05	1.16	y	35:53	0.93	2.69	J	-	-	*	
PCB-145	7.59e+04	1.09	y	36:17	0.93	1.20	J	-	-	*	
PCB-136	2.33e+07	1.25	y	36:36	0.84	412		-	-	*	
PCB-148	*	*	n	NotFnd	0.75	*		1080	952	0.442	
PCB-154	4.22e+06	1.25	y	37:09	0.77	80.4		-	-	*	
13C-PCB-155	1.35e+08	1.27	y	34:12	1.35	1790					90.0
13C-PCB-111	1.25e+08	1.60	y	36:17	1.21	1860					93.6
13C-PCB-101	1.10e+08	1.57	y	34:39	-	34.2					
PCB-84	5.23e+07	1.60	y	34:18	0.85	787		-	-	*	Co-elute PCB 92
PCB-92	5.23e+07	1.60	y	34:18	0.85	787		-	-	*	Co-elute PCB 84
PCB-89	1.29e+06	1.67	y	34:30	0.79	20.8		-	-	*	
PCB-90	1.45e+08	1.58	y	34:40	0.92	2020		-	-	*	Co-elute PCB 101
PCB-101	1.45e+08	1.58	y	34:40	0.92	2020		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*		4160	920	0.665	
PCB-99	6.86e+07	1.61	y	34:59	0.96	913		-	-	*	
PCB-119	6.24e+06	1.57	y	35:25	1.17	67.9		-	-	*	
PCB-83	6.55e+06	1.57	y	35:34	0.92	90.9		-	-	*	Co-elute PCB 112
PCB-112	6.55e+06	1.57	y	35:34	0.92	90.9		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.09	*		4160	920	0.668	
PCB-97	3.58e+07	1.57	y	35:54	0.75	609		-	-	*	
PCB-86	*	*	n	NotFnd	0.83	*		4160	920	0.875	
PCB-125	5.00e+07	1.57	y	36:10	1.00	637		-	-	*	Co-elute PCB 87/117
PCB-87	5.00e+07	1.57	y	36:10	1.00	637		-	-	*	Co-elute PCB 125/117
PCB-117	5.00e+07	1.57	y	36:10	1.00	637		-	-	*	Co-elute PCB 125/87
PCB-111	2.28e+06	1.52	y	36:18	1.12	25.9		-	-	*	Co-elute PCB 115
PCB-115	2.28e+06	1.52	y	36:18	1.12	25.9		-	-	*	Co-elute PCB 111
PCB-85	1.92e+07	1.48	y	36:25	0.98	250		-	-	*	Co-elute PCB 116
PCB-116	1.92e+07	1.48	y	36:25	0.98	250		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.21	*		4160	920	0.600	
PCB-110	1.75e+08	1.60	y	36:48	1.12	1990		-	-	*	
PCB-82	1.10e+07	1.62	y	37:23	0.65	215		-	-	*	
PCB-124	7.06e+06	1.61	y	38:02	1.16	77.4		-	-	*	
PCB-108	1.35e+07	1.48	y	38:12	1.12	154		-	-	*	Co-elute PCB 107
PCB-107	1.35e+07	1.48	y	38:12	1.12	154		-	-	*	Co-elute PCB 108
PCB-123	2.75e+06	1.51	y	38:20	0.97	38.4		-	-	*	
13C-PCB-123	1.47e+08	1.60	y	38:19	1.48	1480					74.8
PCB-118	1.67e+08	1.55	y	38:30	1.06	1910		-	-	*	Co-elute PCB 106
PCB-106	1.67e+08	1.55	y	38:30	1.06	1910		-	-	*	Co-elute PCB 118
13C-PCB-118	1.65e+08	1.59	y	38:30	1.54	1590					80.3
PCB-114	4.07e+06	1.55	y	39:08	1.07	48.2		-	-	*	
13C-PCB-114	1.57e+08	1.59	y	39:06	1.46	1600					80.6
PCB-122	2.27e+06	1.55	y	39:15	1.09	26.6		-	-	*	
PCB-105	5.97e+07	1.57	y	39:57	1.14	674		-	-	*	
13C-PCB-105	1.54e+08	1.58	y	39:56	1.40	1640					82.7

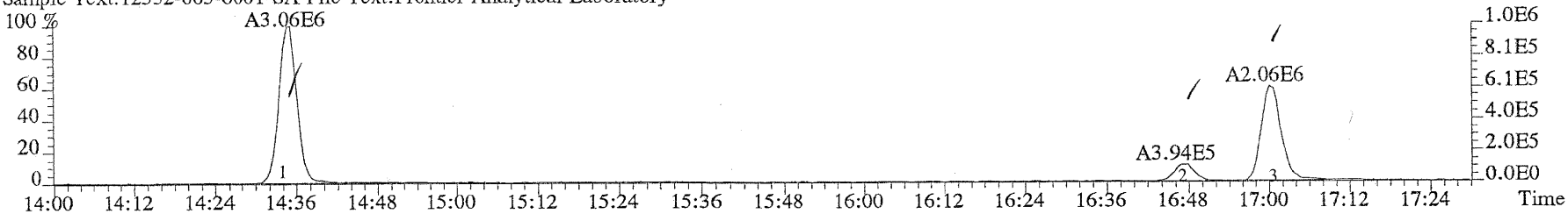
PCB-127	*	*	n	NotFnd	1.00	*	2650	1390	0.579	
PCB-126	7.99e+05	1.47	y	42:02	1.10	9.33	-	-	*	
13C-PCB-126	1.55e+08	1.58	y	42:02	1.32	1750				88.0
PCB-151	3.23e+07	1.29	y	37:47	1.10	436	-	-	*	
PCB-135	1.87e+07	1.27	y	37:59	1.01	274	-	-	*	
PCB-144	6.56e+06	1.30	y	38:05	1.25	77.8	-	-	*	
PCB-147	3.15e+06	1.29	y	38:12	1.15	40.6	-	-	*	
PCB-139	1.26e+08	1.28	y	38:27	1.18	1590	-	-	*	Co-elute PCB 149
PCB-149	1.26e+08	1.28	y	38:27	1.18	1590	-	-	*	Co-elute PCB 139
PCB-140	2.00e+06	1.25	y	38:38	1.16	25.5	-	-	*	
PCB-143	7.33e+06	1.31	y	39:03	0.96	113	-	-	*	Co-elute PCB 134
PCB-134	7.33e+06	1.31	y	39:03	0.96	113	-	-	*	Co-elute PCB 143
PCB-131	4.82e+06	1.31	y	39:20	0.94	76.0	-	-	*	Co-elute PCB 133
PCB-133	4.82e+06	1.31	y	39:20	0.94	76.0	-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.99	*	1800	1560	0.560	
PCB-165	3.08e+07	1.27	y	39:41	1.26	364	-	-	*	Co-elute PCB 146
PCB-146	3.08e+07	1.27	y	39:41	1.26	364	-	-	*	Co-elute PCB 165
PCB-161	4.18e+07	1.24	y	39:57	1.15	539	-	-	*	Co-elute PCB 132
PCB-132	4.18e+07	1.24	y	39:57	1.15	539	-	-	*	Co-elute PCB 161
PCB-153	1.64e+08	1.27	y	40:04	1.27	1910	-	-	*	
PCB-168	*	*	n	NotFnd	1.35	*	1800	1560	0.408	
PCB-141	2.33e+07	1.27	y	40:47	1.02	339	-	-	*	
PCB-137	5.83e+06	1.22	y	41:08	0.94	92.2	-	-	*	
PCB-130	1.02e+07	1.27	y	41:13	0.89	169	-	-	*	
PCB-138	1.73e+08	1.26	y	41:35	1.25	2060	-	-	*	Co-elute PCB 163/164
PCB-163	1.73e+08	1.26	y	41:35	1.25	2060	-	-	*	Co-elute PCB 138/164
PCB-164	1.73e+08	1.26	y	41:35	1.25	2060	-	-	*	Co-elute PCB 138/163
PCB-158	1.99e+07	1.26	y	41:48	1.33	221	-	-	*	Co-elute PCB 160
PCB-160	1.99e+07	1.26	y	41:48	1.33	221	-	-	*	Co-elute PCB 158
PCB-129	5.33e+06	1.27	y	42:02	0.85	92.6	-	-	*	
PCB-166	5.84e+05	1.28	y	42:29	1.28	6.77	-	-	*	
PCB-159	2.41e+06	1.34	y	42:50	1.37	26.2	-	-	*	
PCB-128	2.44e+07	1.26	y	43:03	1.08	335	-	-	*	Co-elute PCB 162
PCB-162	2.44e+07	1.26	y	43:03	1.08	335	-	-	*	Co-elute PCB 128
PCB-167	6.96e+06	1.22	y	43:25	1.18	87.0	-	-	*	
13C-PCB-167	1.35e+08	1.29	y	43:25	1.13	1790				90.0
PCB-156	1.89e+07	1.26	y	44:39	1.24	230	-	-	*	
13C-PCB-156	1.30e+08	1.29	y	44:37	1.06	1830				92.2
PCB-157	4.20e+06	1.30	y	44:54	1.18	51.6	-	-	*	
13C-PCB-157	1.37e+08	1.29	y	44:54	1.07	1920				96.5
PCB-169	*	*	n	NotFnd	1.12	*	1800	1560	0.436	
13C-PCB-169	1.33e+08	1.28	y	46:46	1.00	1980				100

FAL ID: 12532-005-0001-SA Filename: 24JUL19Z Sam:9 Acquired: 24-JUL-19 18:51:01 ICal: DAILYFAL4-7-24-19
Client ID: LDW-Y2-SU-ENR+AC-CB-CORE ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 5.040

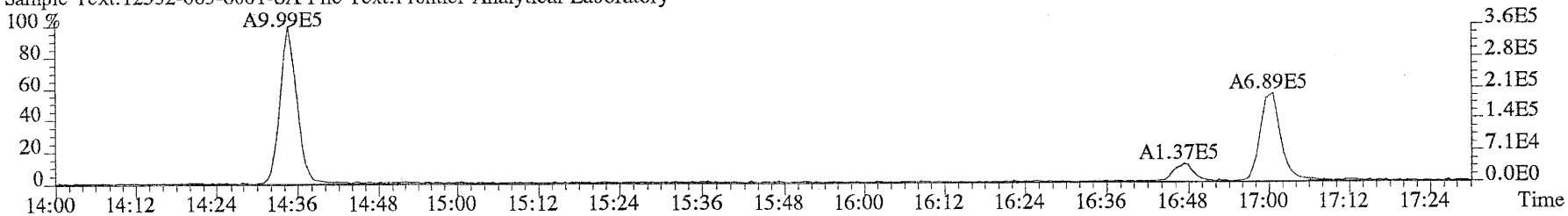
PCB-188	1.55e+05	0.97	y	39:43	1.03	2.40	J	-	-	*	
13C-PCB-188	1.25e+08	1.06	y	39:41	1.26	1480					74.4
PCB-184	*	*	n	NotFnd	1.18	*		1570	888	0.333	
PCB-179	2.04e+07	1.05	y	40:52	1.11	301		-	-	*	
PCB-176	6.31e+06	1.01	y	41:18	1.08	96.2		-	-	*	
PCB-186	*	*	n	NotFnd	1.08	*		1570	888	0.364	
PCB-178	7.19e+06	1.05	y	42:21	0.74	159		-	-	*	
PCB-175	1.56e+06	1.04	y	42:40	0.76	33.8		-	-	*	
PCB-187	4.81e+07	1.05	y	42:49	0.82	958		-	-	*	Co-elute PCB 182
PCB-182	4.81e+07	1.05	y	42:49	0.82	958		-	-	*	Co-elute PCB 187
PCB-183	2.14e+07	1.04	y	43:08	0.80	441		-	-	*	
PCB-185	3.41e+06	1.07	y	43:46	0.71	79.3		-	-	*	
PCB-174	3.20e+07	1.04	y	44:06	0.73	718		-	-	*	
PCB-181	*	*	n	NotFnd	0.66	*		1570	888	0.598	
PCB-177	1.91e+07	1.07	y	44:22	0.64	485		-	-	*	
PCB-171	8.71e+06	1.05	y	44:39	0.69	208		-	-	*	
PCB-173	5.79e+05	1.08	y	45:04	0.62	15.4		-	-	*	
PCB-172	5.12e+06	1.08	y	45:27	0.64	132		-	-	*	
PCB-192	*	*	n	NotFnd	0.84	*		1570	888	0.469	
PCB-180	7.31e+07	1.05	y	45:48	0.65	1850		-	-	*	
PCB-193	5.21e+06	1.03	y	45:58	0.90	95.5		-	-	*	
PCB-191	1.65e+06	1.02	y	46:09	0.83	32.4		-	-	*	
PCB-170	2.76e+07	1.05	y	47:05	0.60	755		-	-	*	
PCB-190	7.96e+06	1.04	y	47:14	0.85	155		-	-	*	
PCB-189	1.49e+06	1.06	y	48:26	1.06	23.8		-	-	*	
13C-PCB-189	1.17e+08	1.06	y	48:24	0.96	1820					91.6
PCB-202	4.62e+06	0.89	y	44:49	1.03	83.6		-	-	*	
PCB-201	3.26e+06	0.90	y	45:17	1.09	55.5		-	-	*	
PCB-204	*	*	n	NotFnd	1.05	*		828	1140	0.395	
PCB-197	9.64e+05	0.95	y	45:40	1.09	16.4		-	-	*	
PCB-200	2.88e+06	0.89	y	46:26	1.04	51.3		-	-	*	
PCB-198	7.15e+05	0.84	y	47:35	0.70	18.9		-	-	*	
PCB-199	1.68e+07	0.91	y	47:42	0.70	448		-	-	*	
PCB-203	1.98e+07	0.89	y	47:56	0.83	444		-	-	*	Co-elute PCB 196
PCB-196	1.98e+07	0.89	y	47:56	0.83	444		-	-	*	Co-elute PCB 203
13C-PCB-202	1.07e+08	0.91	y	44:49	0.89	1800					90.8
13C-PCB-178	8.53e+07	1.07	y	42:19	0.78	1630					82.0
13C-PCB-138	1.33e+08	1.28	y	46:46	-	48.3					
PCB-195	7.49e+06	0.89	y	49:02	0.67	179		-	-	*	
PCB-194	1.93e+07	0.89	y	49:51	0.84	372		-	-	*	
PCB-205	1.31e+06	0.91	y	50:06	1.06	20.0		-	-	*	
13C-PCB-205	1.23e+08	0.90	y	50:05	1.30	1950					98.2
PCB-208	2.66e+06	1.35	y	49:10	1.09	43.6		-	-	*	
13C-PCB-208	1.11e+08	0.81	y	49:09	1.05	2180					110
PCB-207	1.28e+06	1.33	y	49:27	1.22	22.5		-	-	*	
PCB-206	6.96e+06	1.35	y	51:18	1.08	172		-	-	*	
13C-PCB-206	7.44e+07	0.81	y	51:17	0.89	1710					86.4
PCB-209	4.79e+06	1.18	y	52:30	1.14	91.6		-	-	*	
13C-PCB-209	9.11e+07	1.21	y	52:29	1.10	1690					85.3
13C-PCB-194	9.67e+07	0.91	y	49:50	-	36.6					

Analyst: _____ Date: 7/25/19

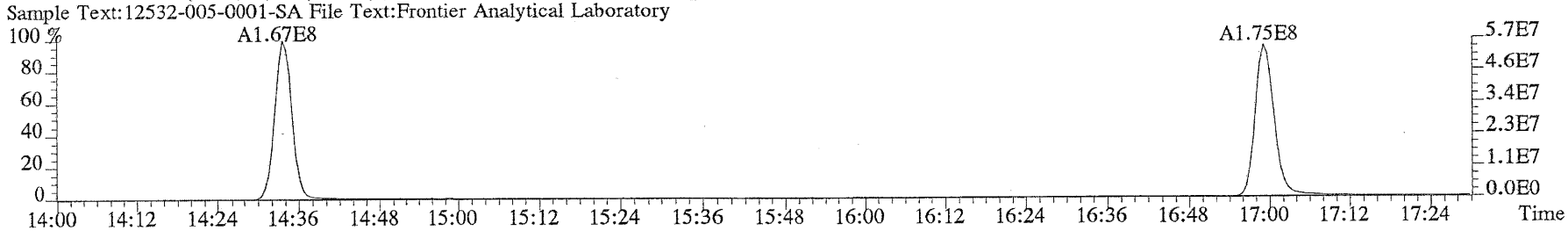
File:24JUL19Z #1-784 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



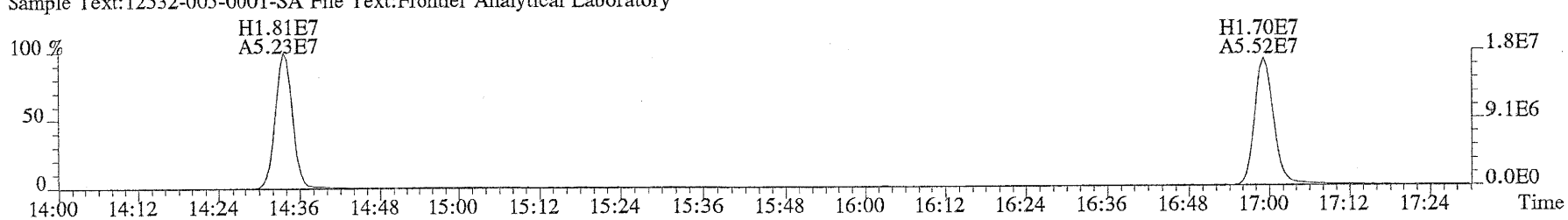
File:24JUL19Z #1-784 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



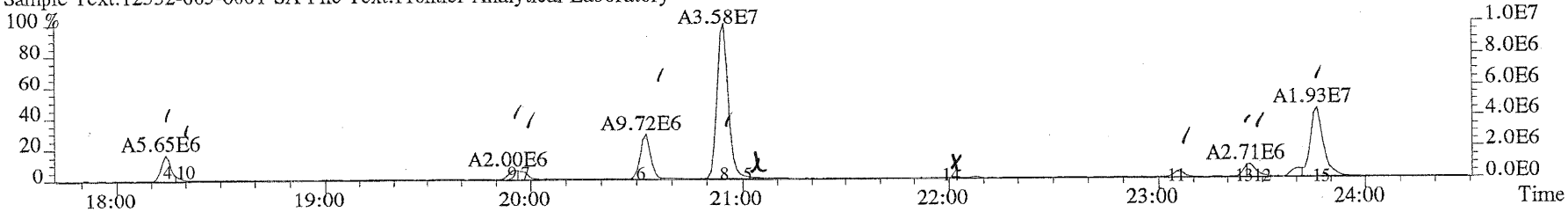
File:24JUL19Z #1-784 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



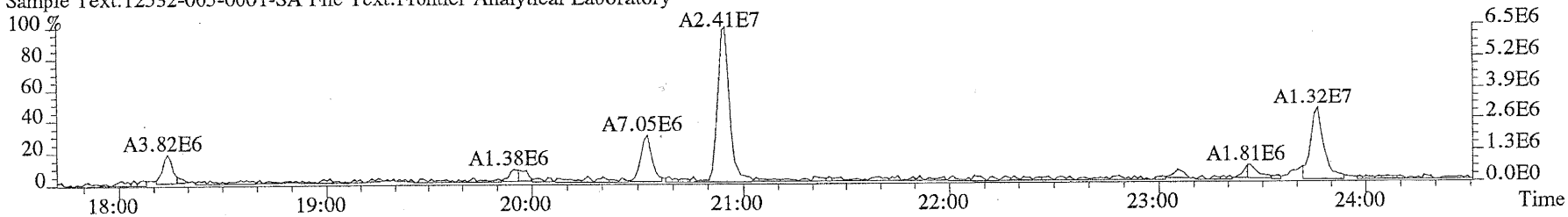
File:24JUL19Z #1-784 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



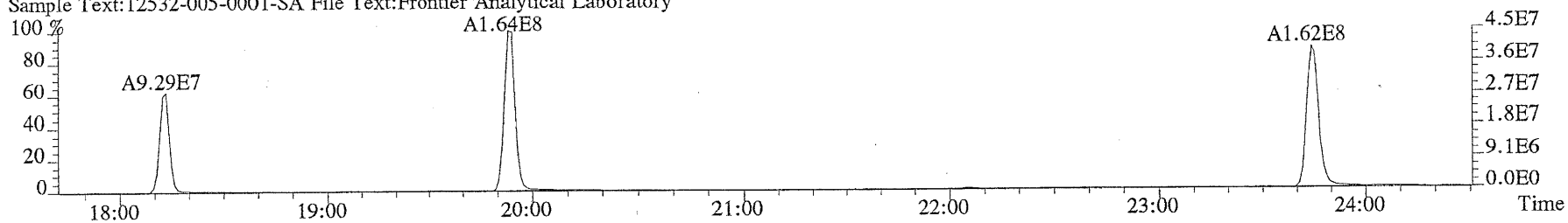
File:24JUL19Z #1-520 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



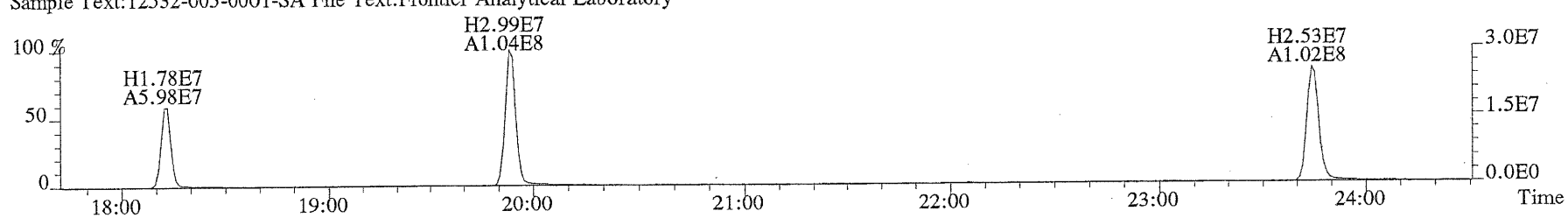
File:24JUL19Z #1-520 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



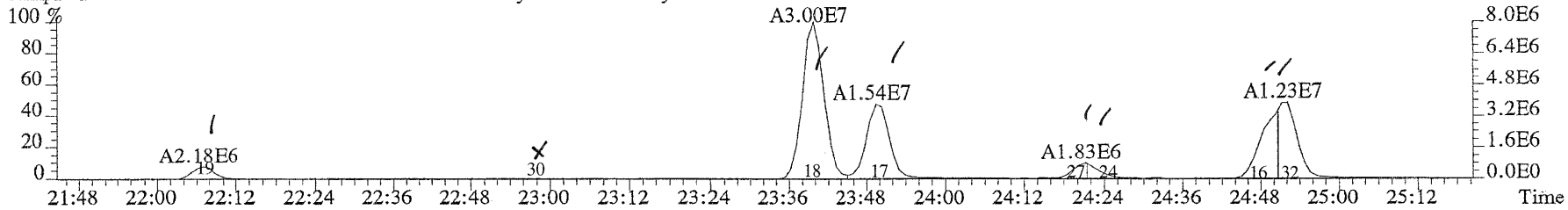
File:24JUL19Z #1-520 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



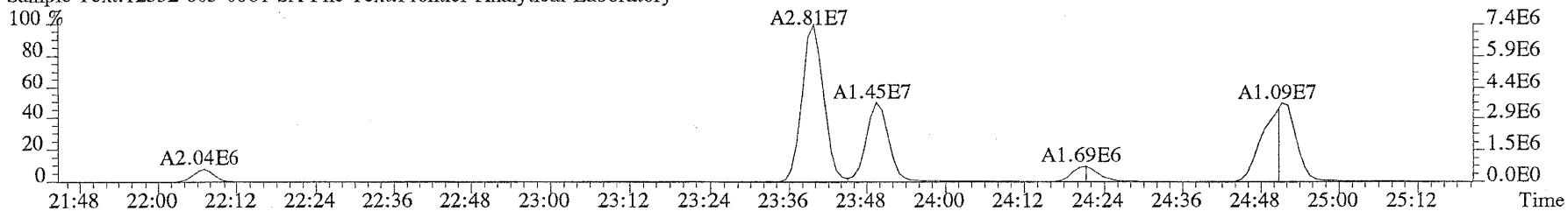
File:24JUL19Z #1-520 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



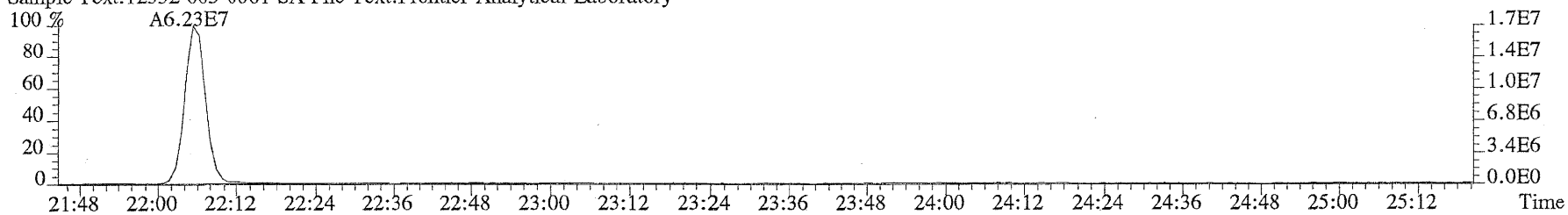
File:24JUL19Z #1-520 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



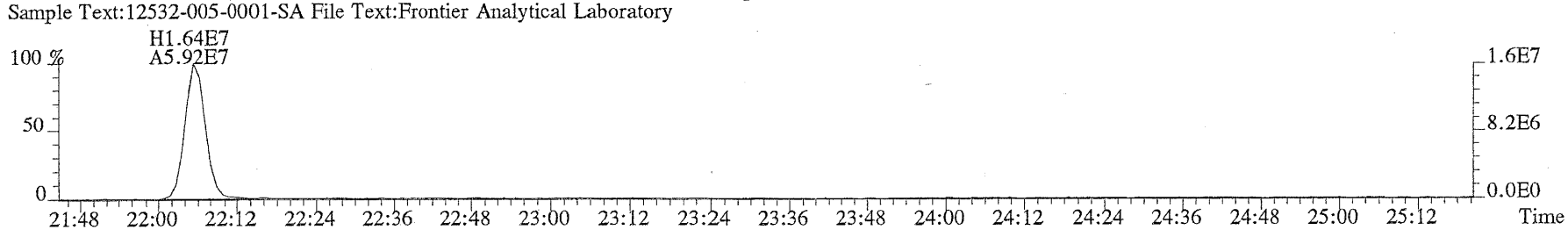
File:24JUL19Z #1-520 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



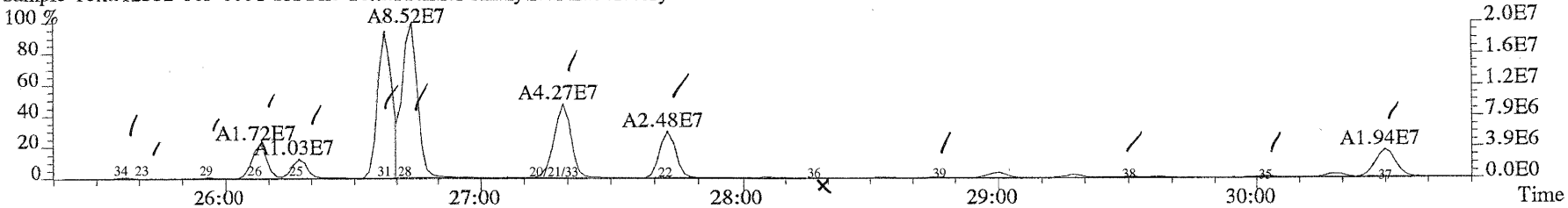
File:24JUL19Z #1-520 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



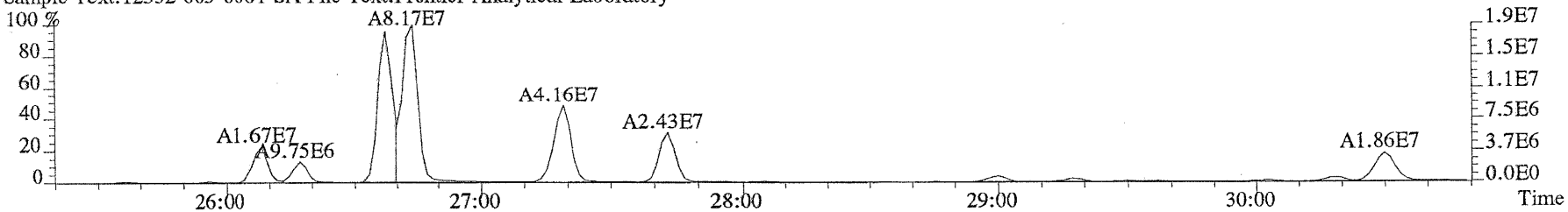
File:24JUL19Z #1-520 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



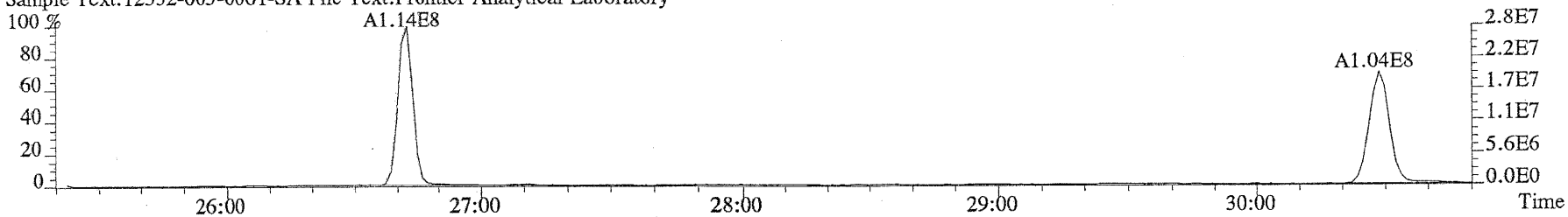
File:24JUL19Z #1-401 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



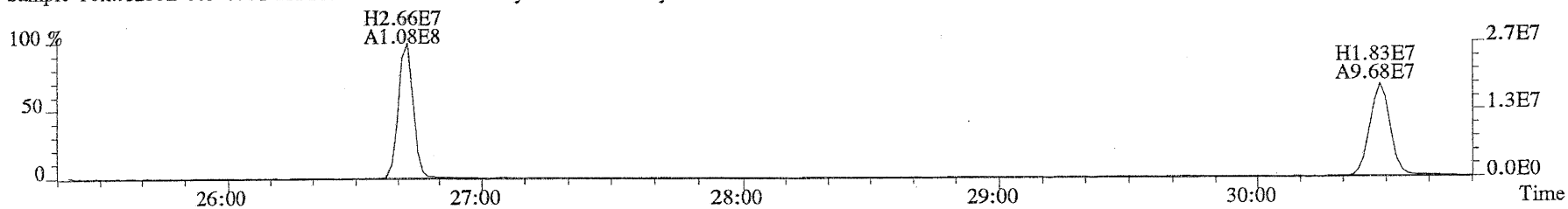
File:24JUL19Z #1-401 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



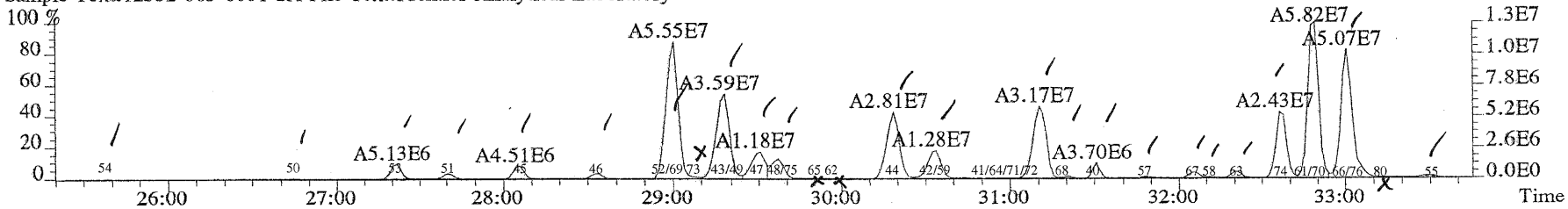
File:24JUL19Z #1-401 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



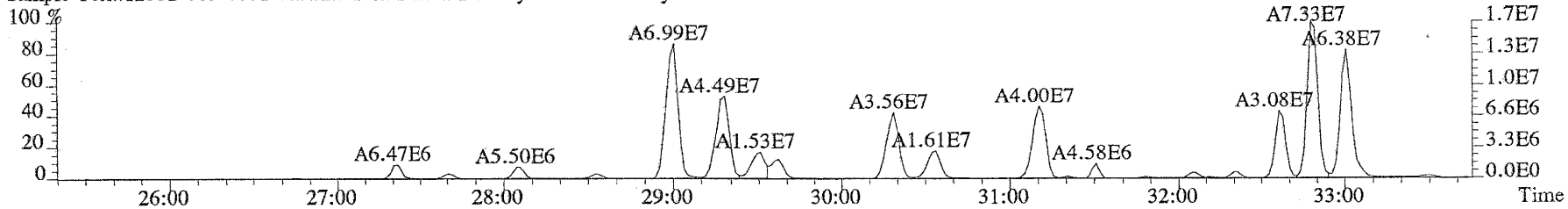
File:24JUL19Z #1-401 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



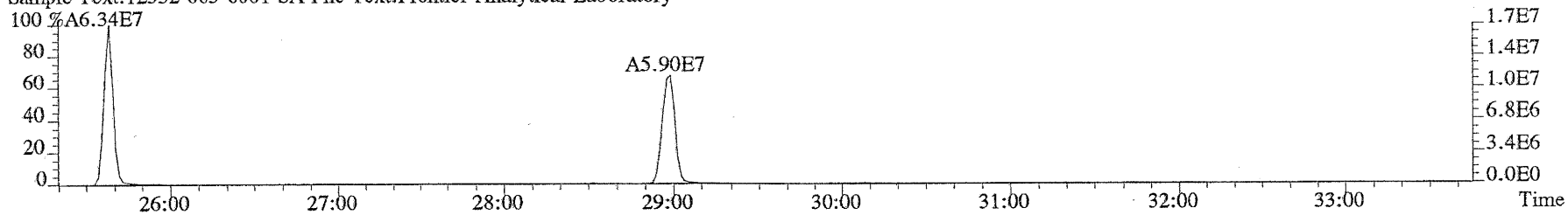
File:24JUL19Z #1-401 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



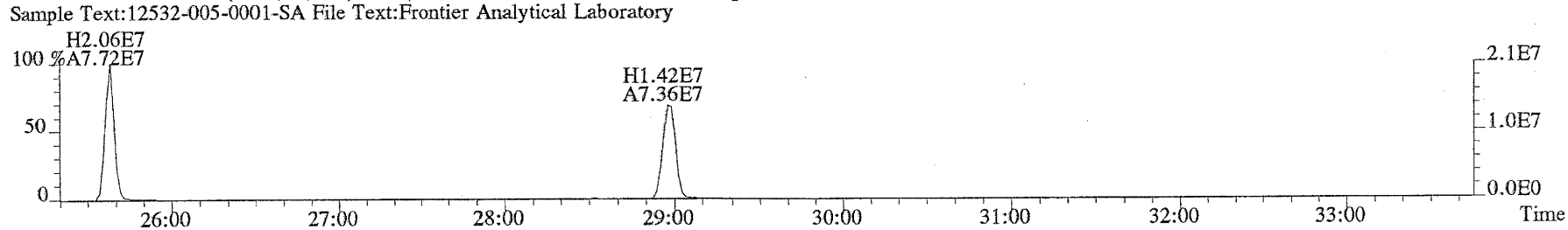
File:24JUL19Z #1-401 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



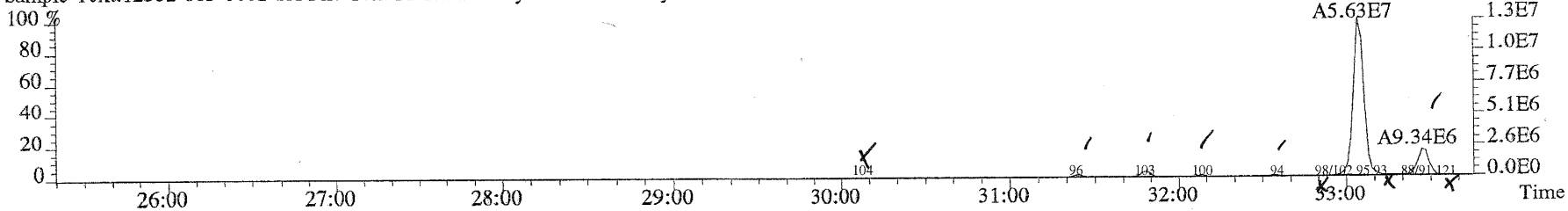
File:24JUL19Z #1-401 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



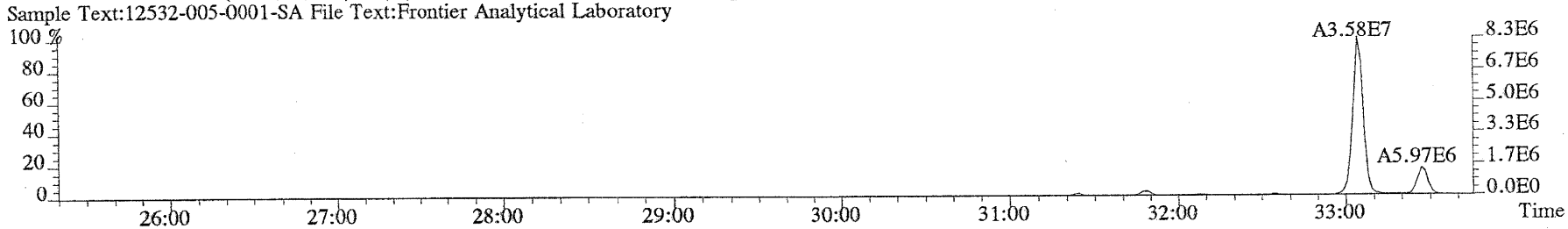
File:24JUL19Z #1-401 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-401 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-401 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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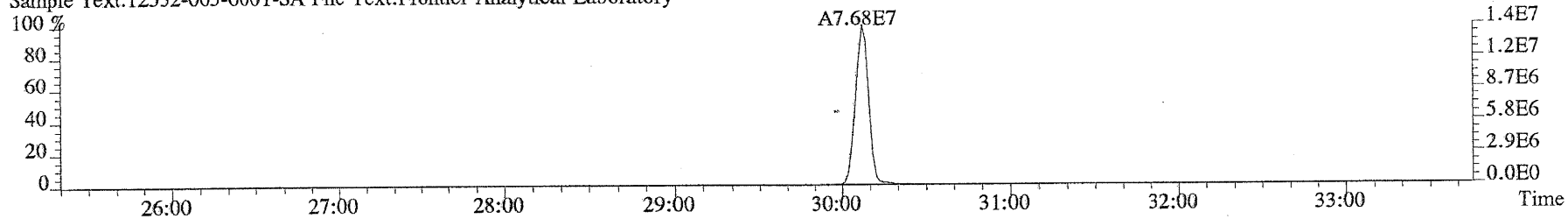
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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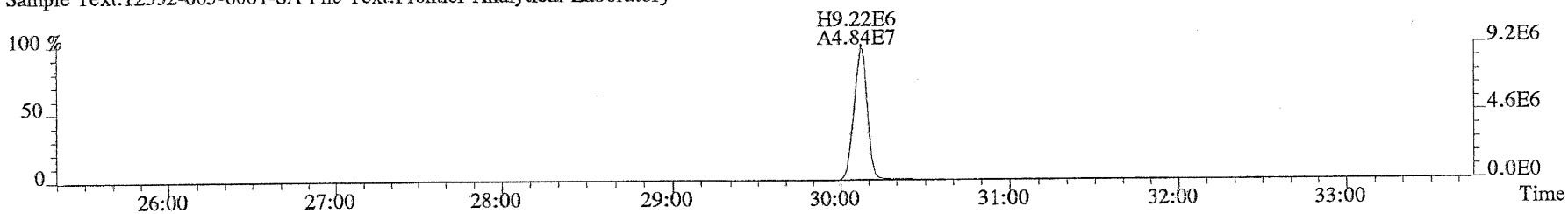

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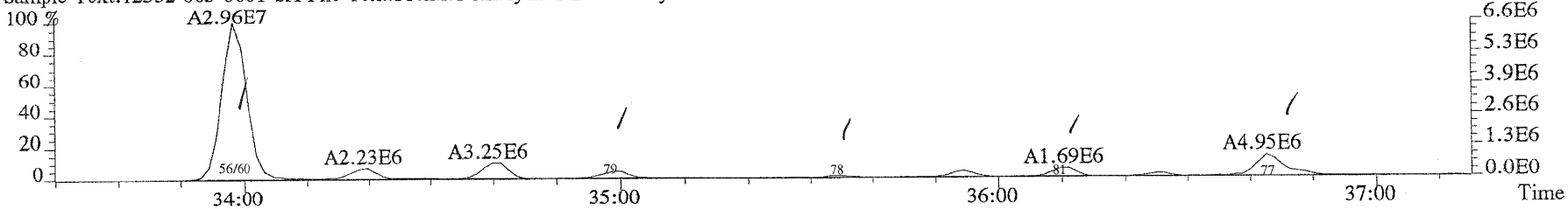

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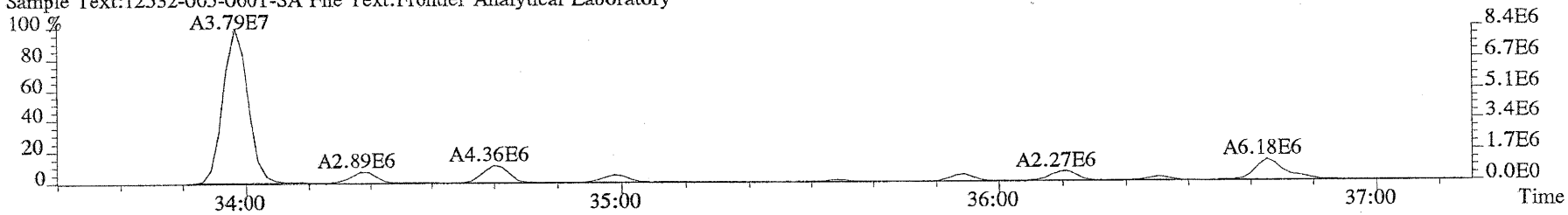
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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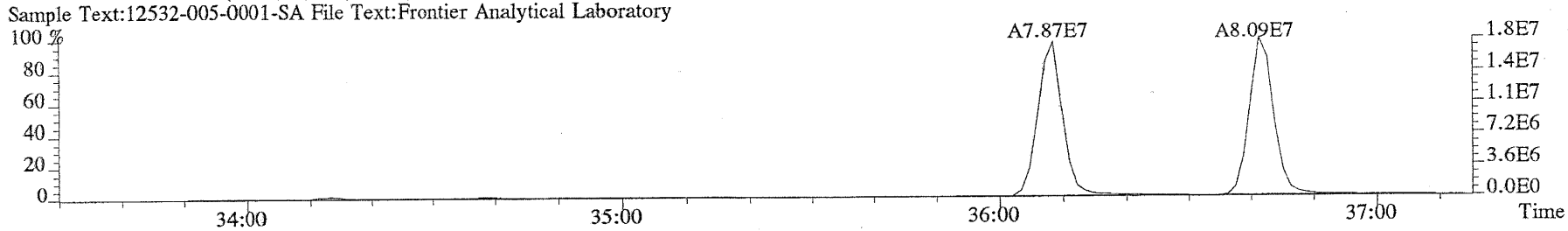
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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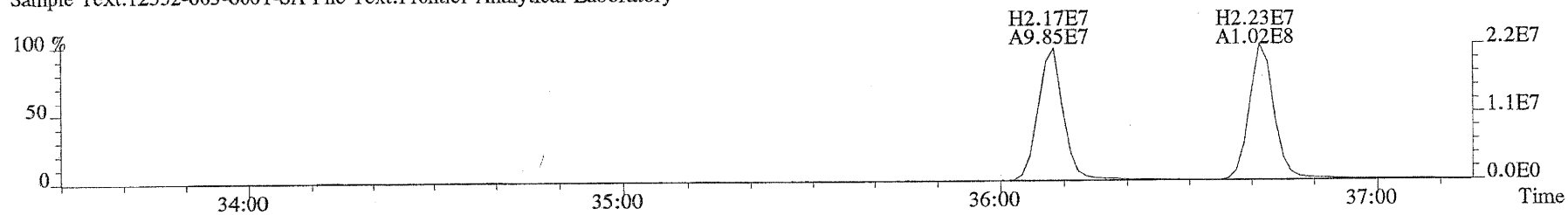
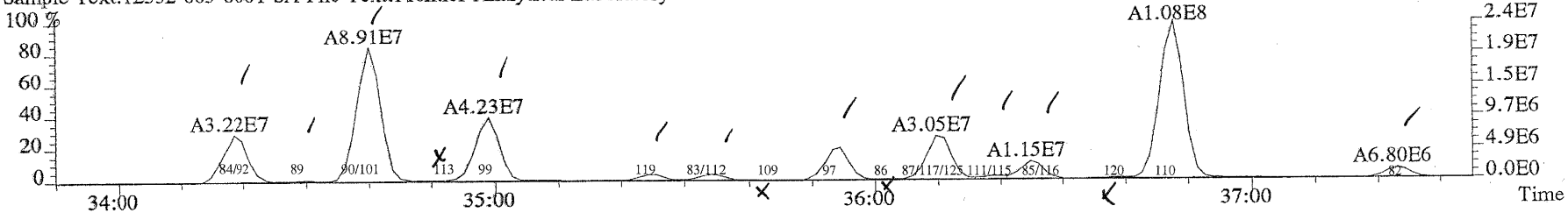
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-181 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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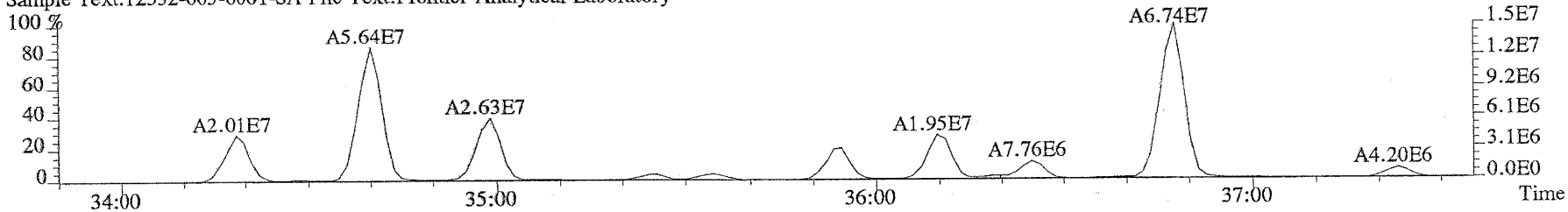
327.8775 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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337.9207 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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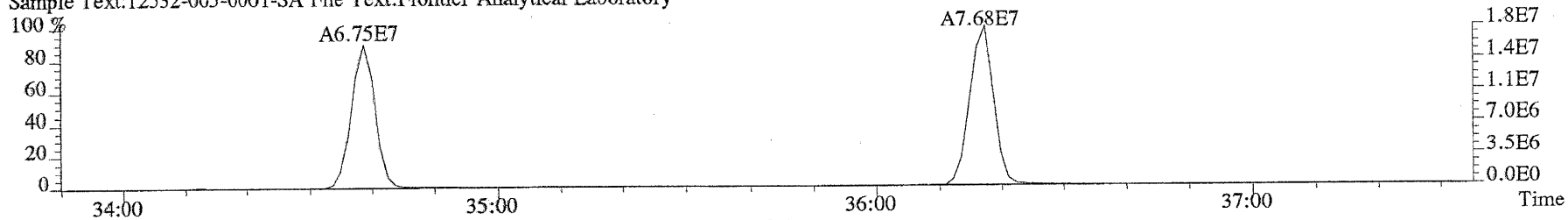

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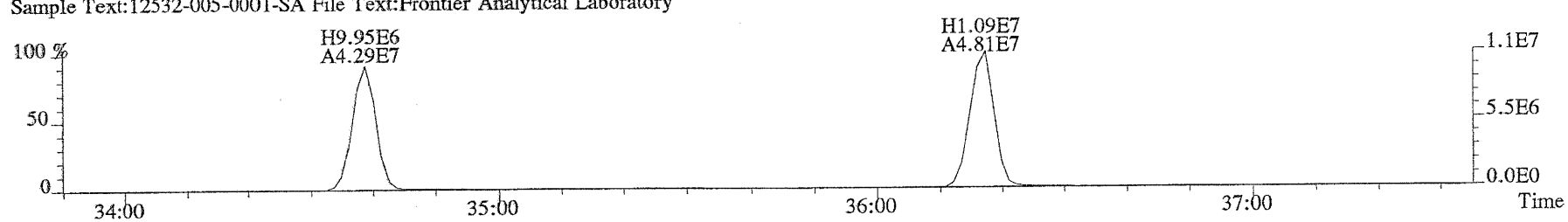
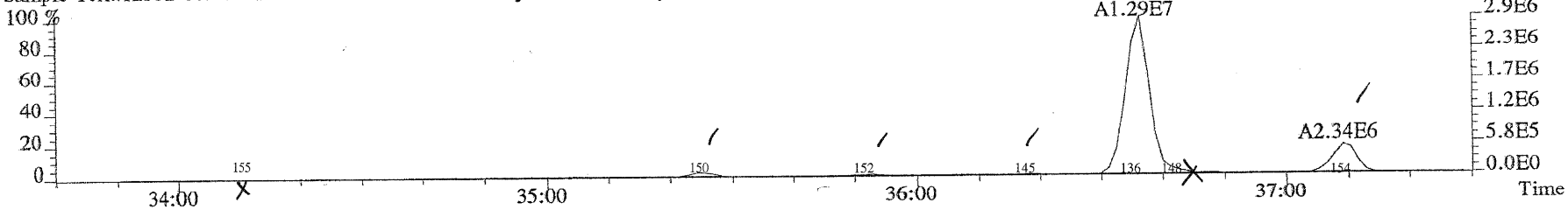
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-181 Acq:24-JUL-2019 18:51:01 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:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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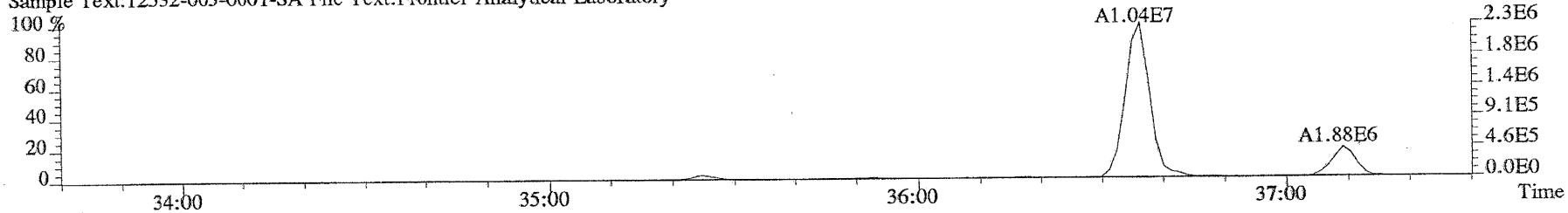
361.8385 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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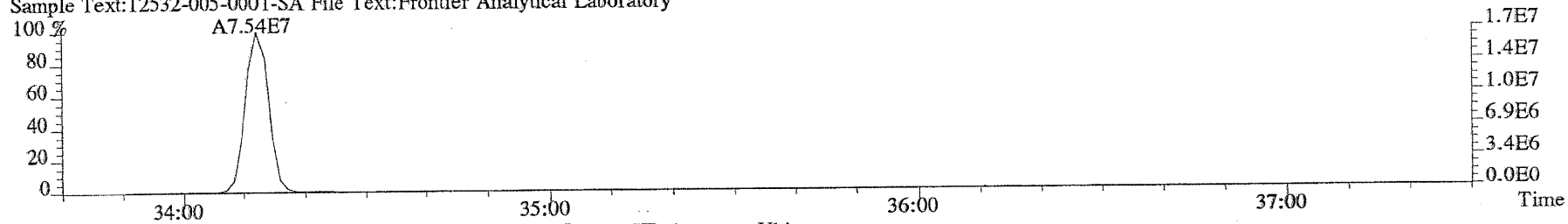
371.8817 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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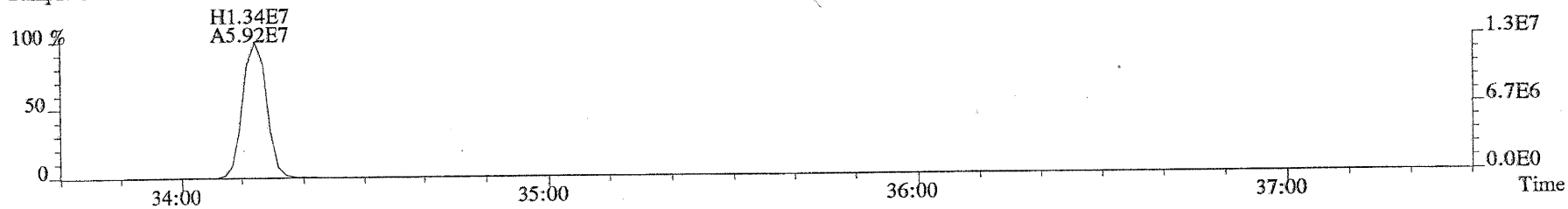
373.8788 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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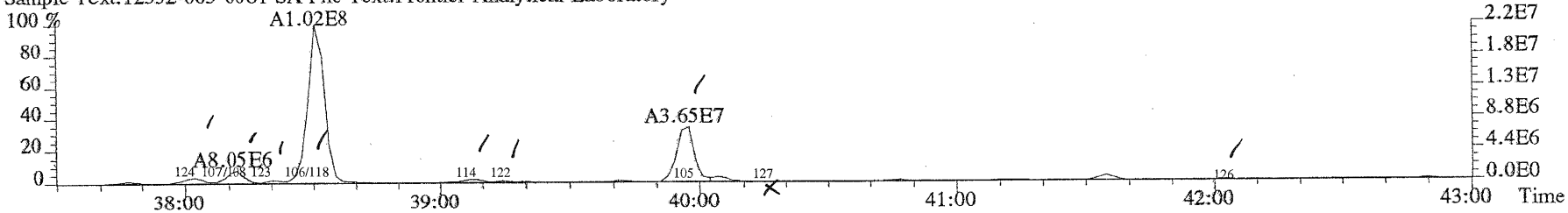
325.8804 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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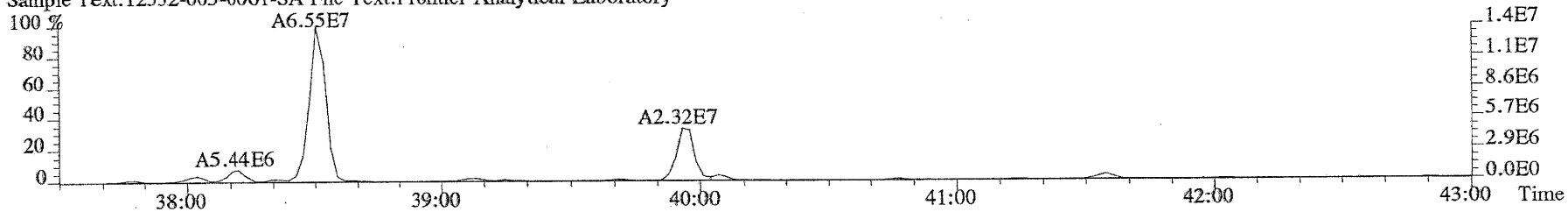

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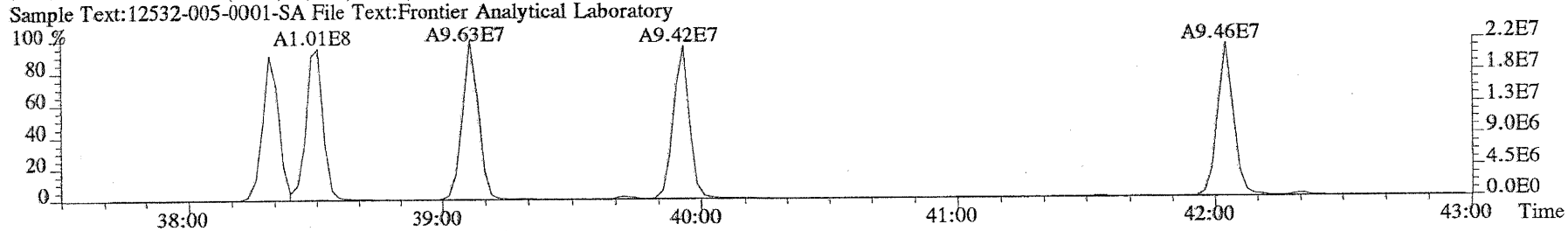
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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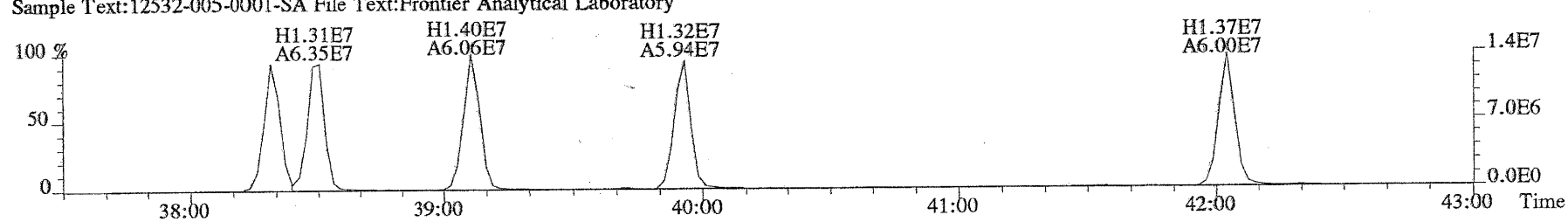
339.9178 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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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
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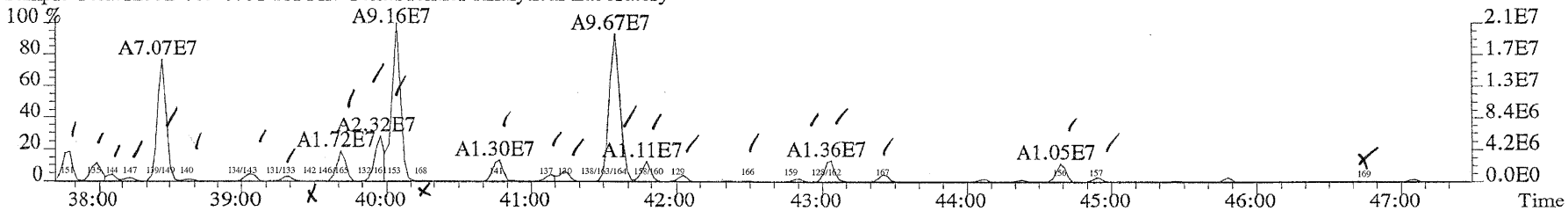

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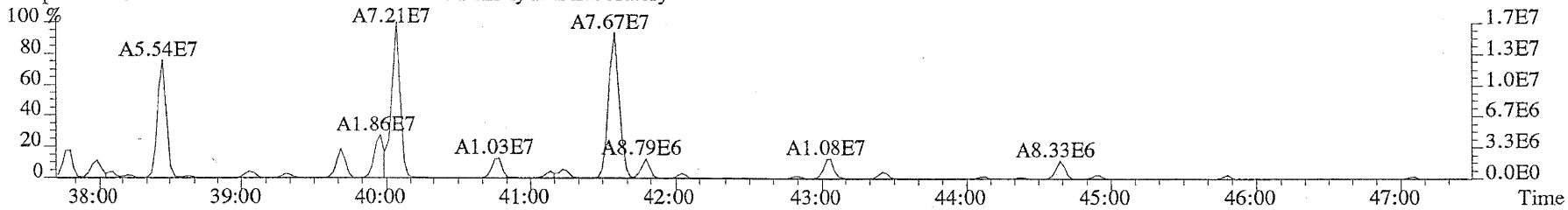
361.8385 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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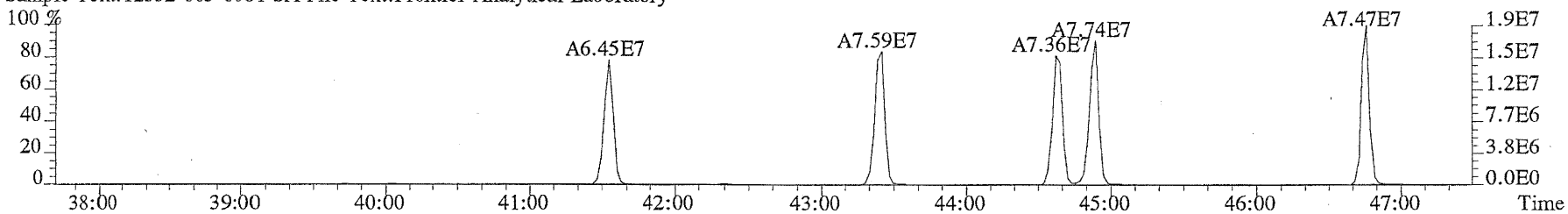
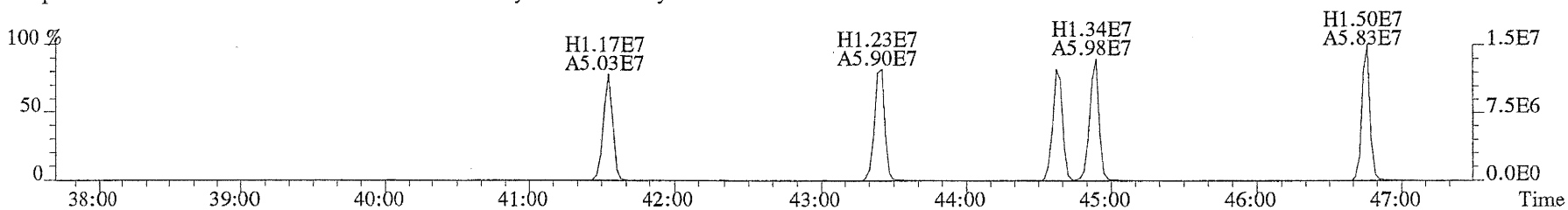
371.8817 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 18:51:01 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:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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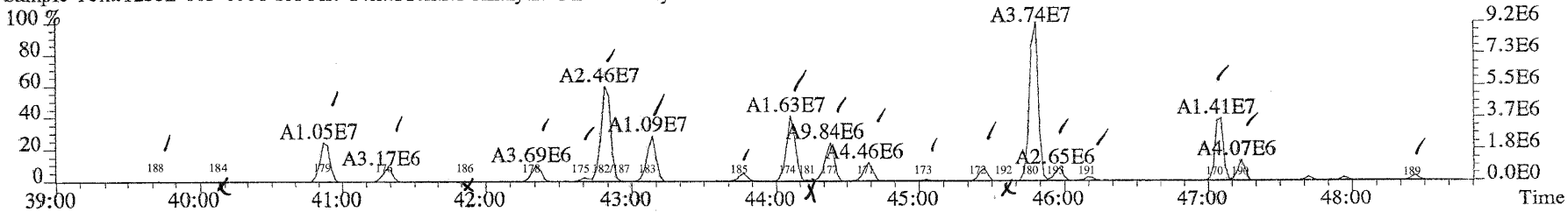
393.8025 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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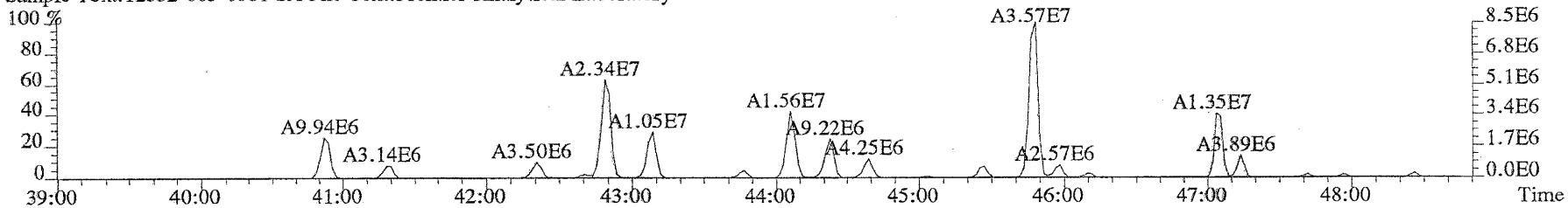
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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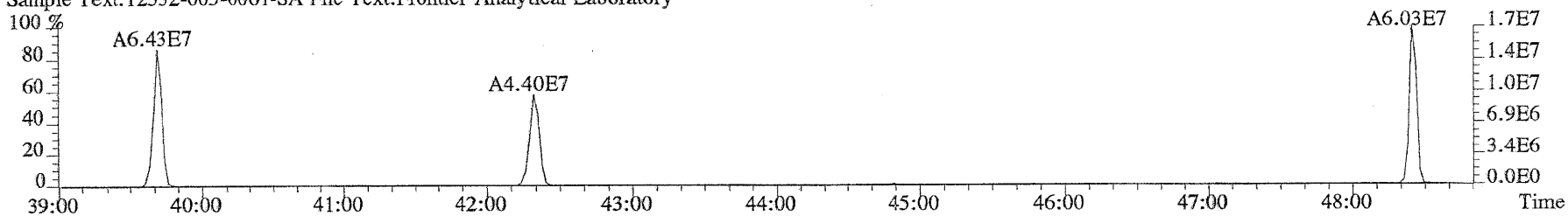
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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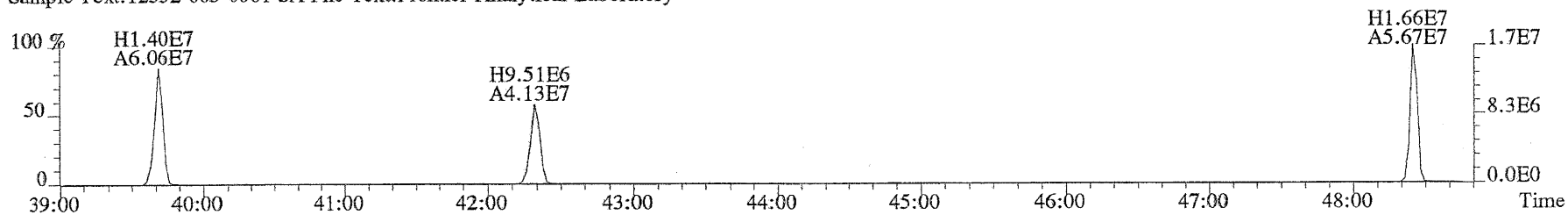

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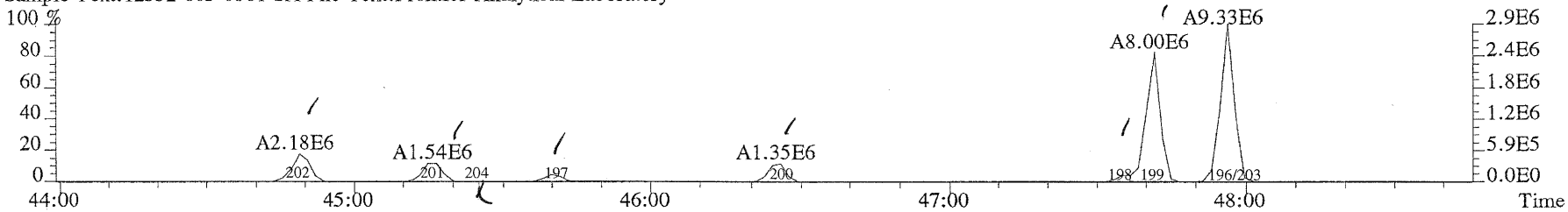

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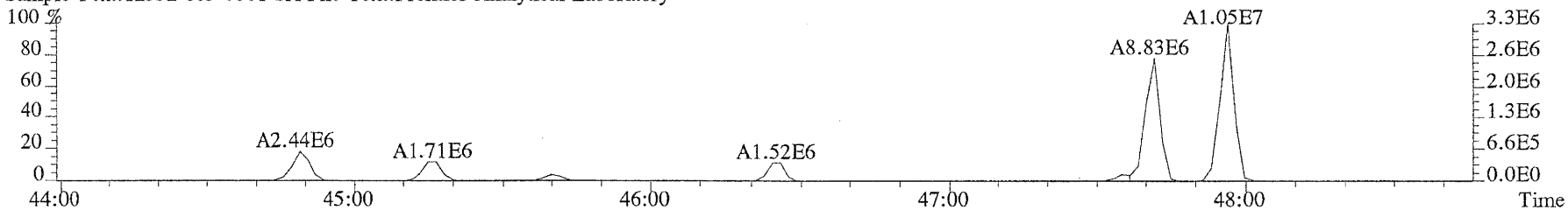
429.7606 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



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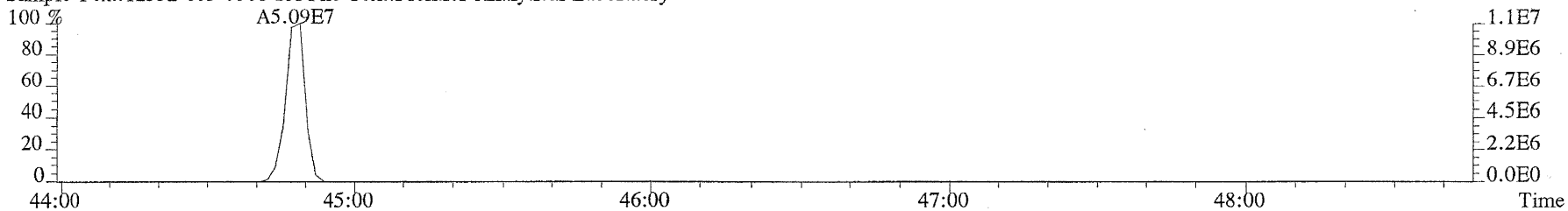
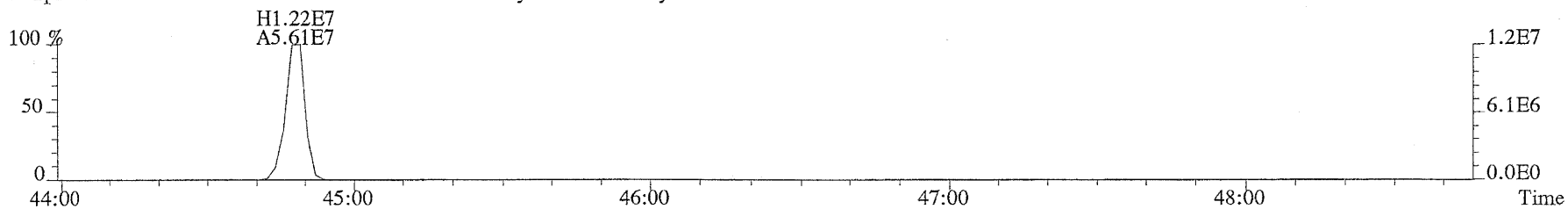
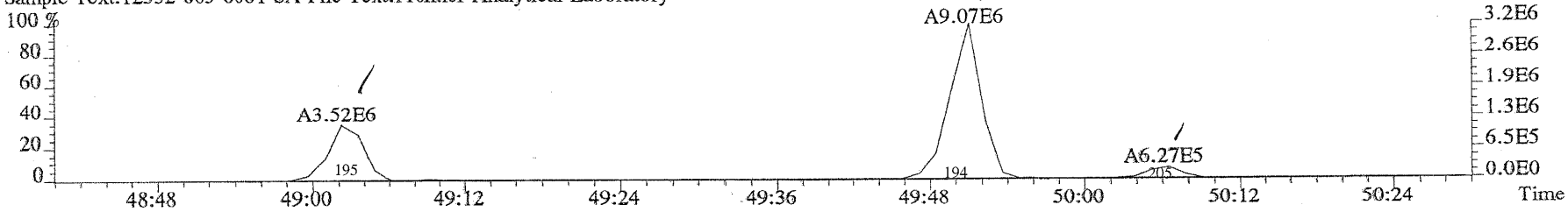


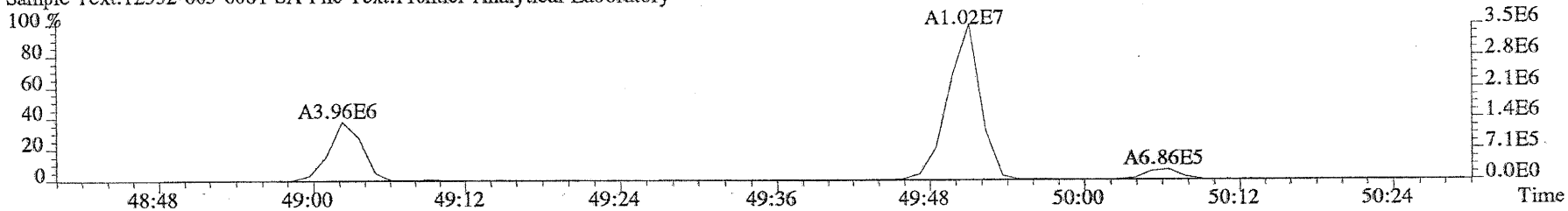
File:24JUL19Z #1-405 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



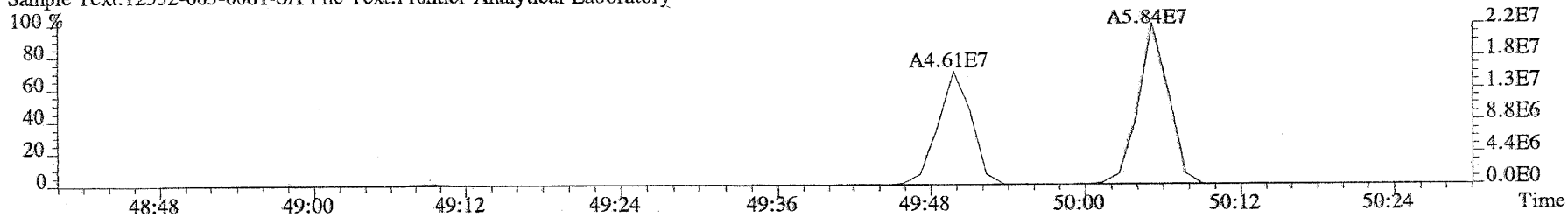
File:24JUL19Z #1-315 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



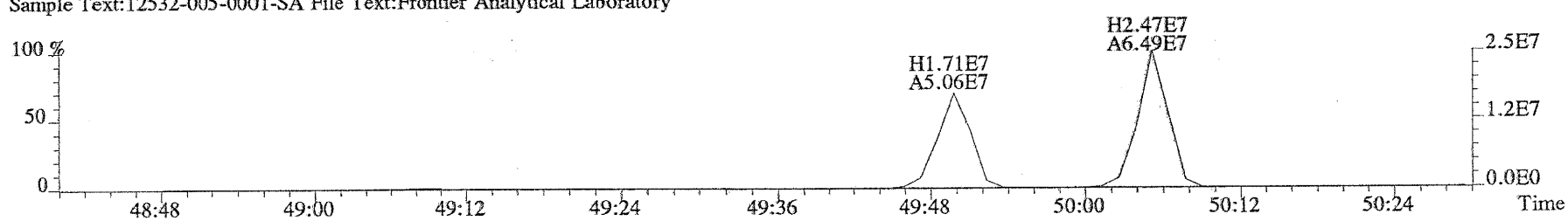
File:24JUL19Z #1-315 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



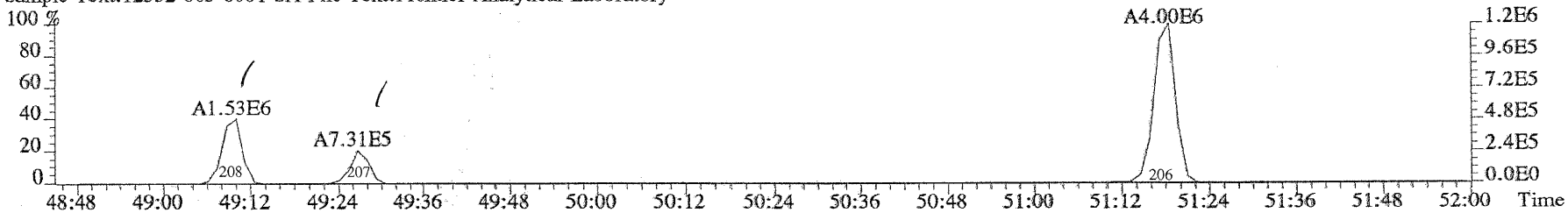
File:24JUL19Z #1-315 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



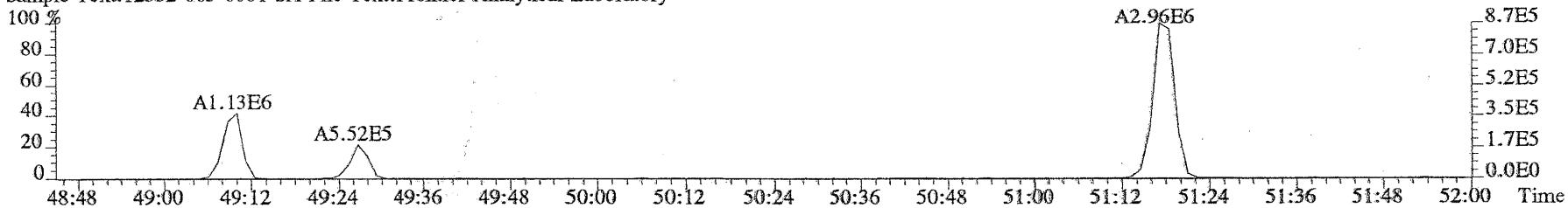
File:24JUL19Z #1-315 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



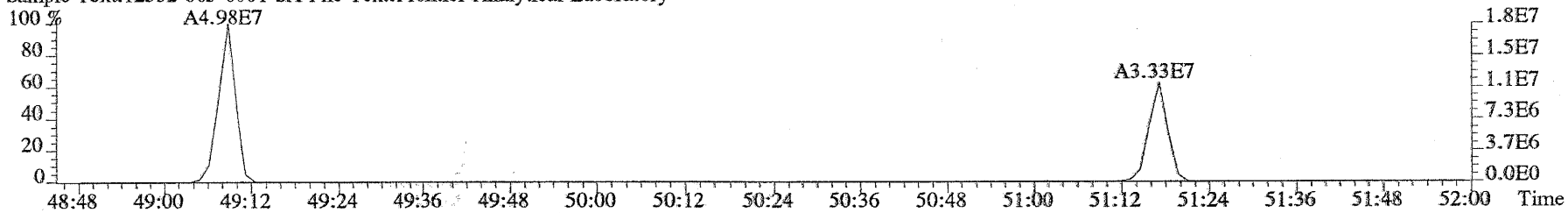
File:24JUL19Z #1-315 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



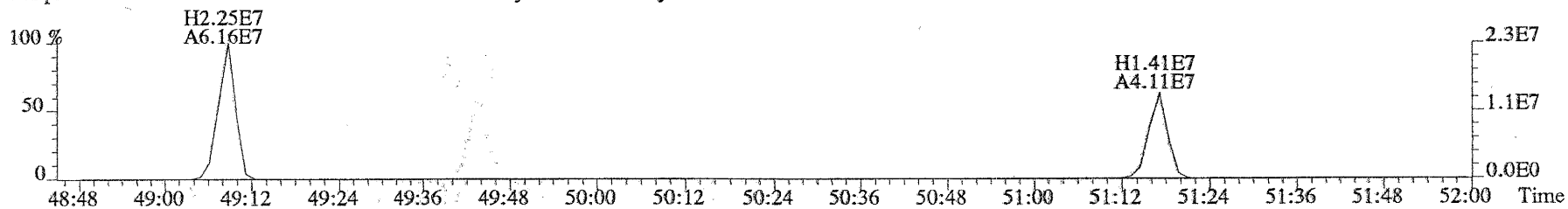
File:24JUL19Z #1-315 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



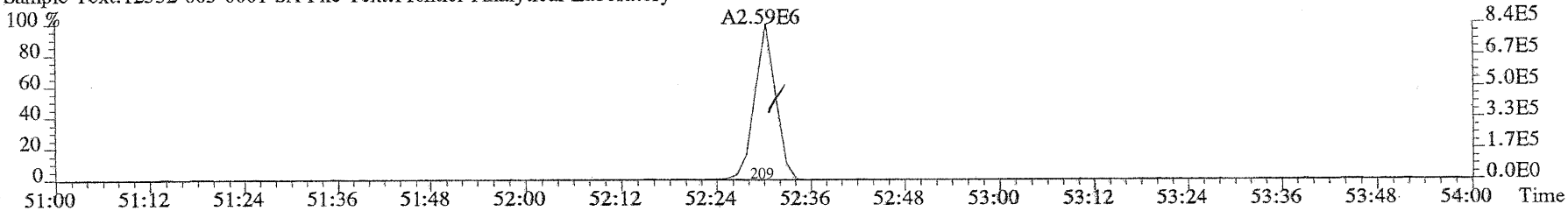
File:24JUL19Z #1-315 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



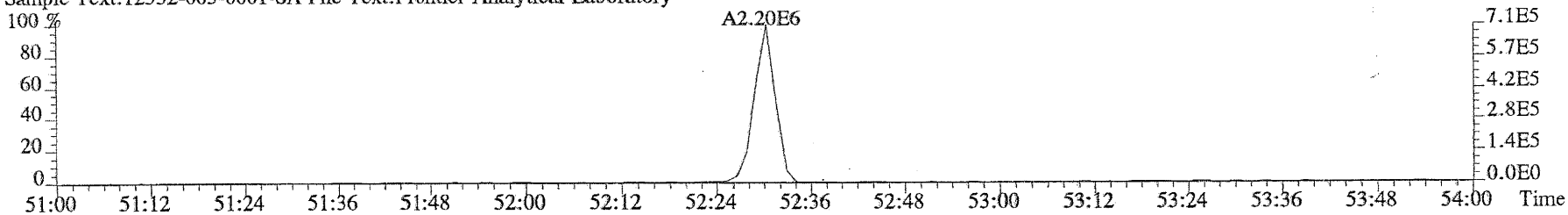
File:24JUL19Z #1-315 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



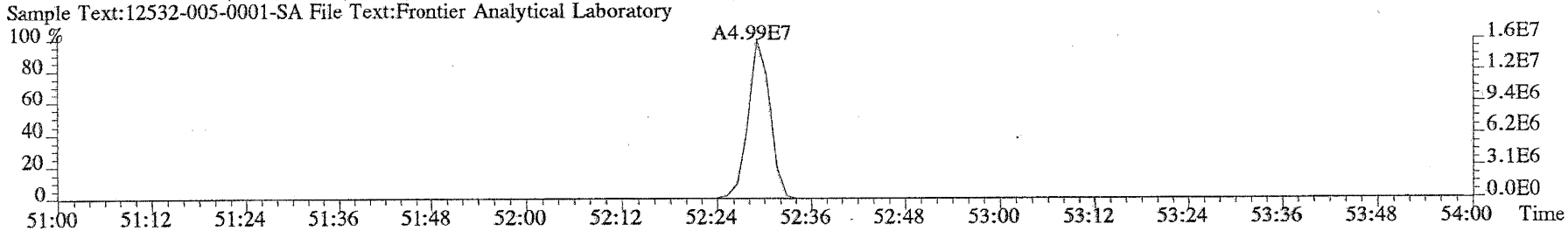
File:24JUL19Z #1-315 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



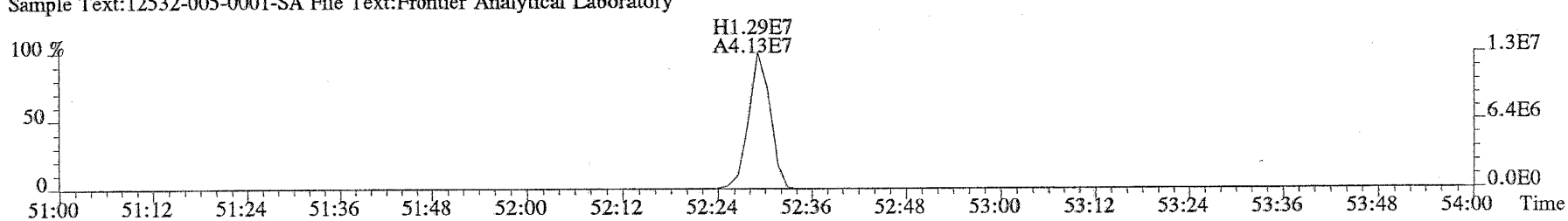
File:24JUL19Z #1-315 Acq:24-JUL-2019 18:51:01 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-005-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 18:51:01 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:12532-005-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 18:51:01 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:12532-005-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12532-006-0001-SA Filename: 24JUL19Z Sam:10 Acquired: 24-JUL-19 19:49:47 ICal: DAILYFAL4-7-24-19
Client ID: LDW-Y2-SU-ENR+AC-CC-CORE ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 5.030

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	3.49e+06	3.07 y	14:35	1.19	32.3		-	-	*	
13C-PCB-1	1.81e+08	3.14 y	14:34	0.82	1780					89.4
PCB-2	8.45e+05	2.97 y	16:47	1.22	7.51		-	-	*	
PCB-3	2.87e+06	3.07 y	17:00	1.21	25.2		-	-	*	
13C-PCB-3	1.87e+08	3.19 y	16:59	0.85	1780					89.4
PCB-4	2.00e+07	1.40 y	18:14	1.14	277		-	-	*	
PCB-10	1.64e+06	1.52 y	18:18	1.32	14.6		-	-	*	
13C-PCB-4	1.26e+08	1.56 y	18:12	0.63	1630					81.8
PCB-9	7.12e+06	1.44 y	19:55	1.39	60.5		-	-	*	
PCB-7	5.61e+06	1.47 y	19:57	1.42	46.7		-	-	*	
PCB-6	3.06e+07	1.42 y	20:33	1.39	260		-	-	*	
PCB-8	1.54e+08	1.50 y	20:55	1.41	1290		-	-	*	
PCB-5	*	* n	NotFnd	1.37	*		1650	9990	0.901	
PCB-14	*	* n	NotFnd	1.31	*		1650	9990	0.947	
PCB-11	1.59e+06	1.41 y	23:05	1.23	15.3		-	-	*	
PCB-13	5.42e+06	1.34 y	23:26	1.26	50.8		-	-	*	
PCB-12	5.42e+06	1.43 y	23:27	1.26	50.9		-	-	*	
PCB-15	8.03e+07	1.51 y	23:46	1.16	652		-	-	*	
13C-PCB-15	2.11e+08	1.58 y	23:44	0.96	1770					89.0
PCB-19	7.65e+06	1.05 y	22:07	1.16	136		-	-	*	
PCB-30	1.65e+05	1.10 y	22:58	1.82	1.87	J	-	-	*	
PCB-18	1.30e+08	1.06 y	23:40	1.20	2230		-	-	*	
PCB-17	6.21e+07	1.05 y	23:49	1.30	988		-	-	*	
PCB-27	6.67e+06	1.05 y	24:20	1.77	77.9		-	-	*	
PCB-24	6.58e+06	1.09 y	24:21	1.77	76.8		-	-	*	
PCB-16	4.45e+07	1.05 y	24:50	1.48	619		-	-	*	
PCB-32	5.20e+07	1.07 y	24:51	1.48	722		-	-	*	
13C-PCB-19	9.63e+07	1.07 y	22:05	0.45	1740					87.4
13C-PCB-9	2.46e+08	1.58 y	19:53	-	28.7					
PCB-34	1.88e+06	1.03 y	25:37	1.16	18.3		-	-	*	
PCB-23	4.38e+05	1.15 y	25:42	1.33	3.73	J	-	-	*	
PCB-29	2.69e+06	1.04 y	25:55	1.33	22.9		-	-	*	
PCB-26	6.21e+07	1.06 y	26:08	1.27	554		-	-	*	
PCB-25	3.40e+07	1.03 y	26:17	1.22	315		-	-	*	
PCB-31	3.61e+08	1.03 y	26:37	1.20	3400		-	-	*	
PCB-28	4.21e+08	1.04 y	26:44	1.55	3070		-	-	*	
PCB-20	2.16e+08	1.04 y	27:19	1.23	1990		-	-	*	Co-elute PCB 21/33
PCB-21	2.16e+08	1.04 y	27:19	1.23	1990		-	-	*	Co-elute PCB 20/33
PCB-33	2.16e+08	1.04 y	27:19	1.23	1990		-	-	*	Co-elute PCB 20/21
PCB-22	1.31e+08	1.05 y	27:43	1.37	1090		-	-	*	
PCB-36	*	* n	NotFnd	1.27	*		1910	1840	0.444	
PCB-39	4.69e+05	0.99 y	28:45	1.24	4.29		-	-	*	
PCB-38	2.34e+06	1.03 y	29:30	1.27	20.8		-	-	*	
PCB-35	4.54e+06	1.03 y	30:02	1.12	46.1		-	-	*	
PCB-37	1.08e+08	1.04 y	30:30	1.17	1050		-	-	*	
13C-PCB-37	1.76e+08	1.07 y	30:29	1.46	2000					100

PCB-54	5.12e+05	0.84	y	25:39	1.26	6.77		-	-	*	
PCB-50	6.27e+05	0.80	y	26:45	0.99	10.6		-	-	*	
PCB-53	2.43e+07	0.81	y	27:21	0.98	413		-	-	*	
PCB-51	8.22e+06	0.81	y	27:40	1.01	135		-	-	*	
PCB-45	2.17e+07	0.80	y	28:06	0.83	434		-	-	*	
PCB-46	7.52e+06	0.81	y	28:34	0.81	155		-	-	*	
PCB-52	3.76e+08	0.80	y	29:00	1.05	5960		-	-	*	Co-elute PCB 69
PCB-69	3.76e+08	0.80	y	29:00	1.05	5960		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.20	*		1740	1500	0.431	
PCB-43	1.84e+08	0.79	y	29:18	0.91	3380		-	-	*	Co-elute PCB 49
PCB-49	1.84e+08	0.79	y	29:18	0.91	3380		-	-	*	Co-elute PCB 43
PCB-47	6.18e+07	0.79	y	29:29	0.92	1120		-	-	*	
PCB-48	4.74e+07	0.80	y	29:37	1.19	666		-	-	*	Co-elute PCB 75
PCB-75	4.74e+07	0.80	y	29:37	1.19	666		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.20	*		1740	1500	0.432	
PCB-62	*	*	n	NotFnd	1.16	*		1740	1500	0.448	
PCB-44	1.89e+08	0.79	y	30:18	0.78	4050		-	-	*	
PCB-42	7.07e+07	0.78	y	30:32	1.01	1170		-	-	*	Co-elute PCB 59
PCB-59	7.07e+07	0.78	y	30:32	1.01	1170		-	-	*	Co-elute PCB 42
PCB-72	2.13e+08	0.80	y	31:03	1.14	3110		-	-	*	Co-elute PCB 41/71/64
PCB-41	2.13e+08	0.80	y	31:03	1.14	3110		-	-	*	Co-elute PCB 72/71/64
PCB-71	2.13e+08	0.80	y	31:03	1.14	3110		-	-	*	Co-elute PCB 72/41/64
PCB-64	2.13e+08	0.80	y	31:03	1.14	3110		-	-	*	Co-elute PCB 72/41/71
PCB-68	2.15e+06	0.71	y	31:15	1.33	27.1		-	-	*	
PCB-40	2.26e+07	0.80	y	31:27	0.71	533		-	-	*	
PCB-57	1.85e+06	0.82	y	31:46	1.21	25.4		-	-	*	
PCB-67	9.65e+06	0.80	y	32:03	1.19	136		-	-	*	
PCB-58	8.13e+05	0.74	y	32:10	1.22	11.1		-	-	*	
PCB-63	1.27e+07	0.79	y	32:20	1.22	174		-	-	*	
PCB-74	1.70e+08	0.80	y	32:36	1.22	2330		-	-	*	
PCB-61	4.39e+08	0.80	y	32:48	1.10	6650		-	-	*	Co-elute PCB 70
PCB-70	4.39e+08	0.80	y	32:48	1.10	6650		-	-	*	Co-elute PCB 61
PCB-76	3.07e+08	0.79	y	32:59	1.25	4110		-	-	*	Co-elute PCB 66
PCB-66	3.07e+08	0.79	y	32:59	1.25	4110		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.40	*		1740	1500	0.372	
PCB-55	6.90e+06	0.79	y	33:29	1.22	94.2		-	-	*	
13C-PCB-54	1.19e+08	0.81	y	25:38	1.21	1630					81.9
PCB-104	*	*	n	NotFnd	1.12	*		1120	980	0.468	
PCB-96	2.72e+06	1.57	y	31:17	1.06	49.2		-	-	*	
PCB-103	2.55e+06	1.54	y	31:47	0.86	56.6		-	-	*	
PCB-100	9.26e+05	1.55	y	32:07	0.86	20.6		-	-	*	
PCB-94	1.29e+06	1.59	y	32:32	0.72	34.3		-	-	*	
PCB-98	*	*	n	NotFnd	0.78	*		1120	980	0.669	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.78	*		1120	980	0.669	Co-elute PCB 98
PCB-95	2.90e+08	1.58	y	33:04	0.73	7590		-	-	*	
PCB-93	*	*	n	NotFnd	0.72	*		1120	980	0.723	
PCB-88	4.39e+07	1.58	y	33:27	0.84	1000		-	-	*	Co-elute PCB 91
PCB-91	4.39e+07	1.58	y	33:27	0.84	1000		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.95	*		1120	980	0.552	
13C-PCB-104	1.04e+08	1.59	y	30:07	1.00	1710					86.2
13C-PCB-28	1.78e+08	1.06	y	26:41	1.75	1690					84.9
13C-PCB-52	1.20e+08	0.80	y	28:58	-	29.8					

PCB-56	2.15e+08	0.78	y	33:58	1.14	2670			-	-	*	Co-elute PCB 60
PCB-60	2.15e+08	0.78	y	33:58	1.14	2670			-	-	*	Co-elute PCB 56
PCB-79	7.50e+06	0.77	y	34:59	1.24	85.3			-	-	*	
PCB-78	2.30e+06	0.75	y	35:34	1.20	27.3			-	-	*	
PCB-81	1.60e+07	0.77	y	36:10	1.21	190			-	-	*	
13C-PCB-81	1.38e+08	0.79	y	36:07	1.53	1810						91.0
PCB-77	3.17e+07	0.79	y	36:43	1.04	423			-	-	*	
13C-PCB-77	1.43e+08	0.81	y	36:41	1.54	1860						93.6
PCB-155	*	*	n	NotFnd	1.05	*			1350	1110	0.475	
PCB-150	5.30e+05	1.18	y	35:25	0.95	10.5			-	-	*	
PCB-152	4.81e+05	1.14	y	35:52	0.93	9.78			-	-	*	
PCB-145	2.39e+05	1.17	y	36:17	0.93	4.81			-	-	*	
PCB-136	5.99e+07	1.24	y	36:36	0.84	1350			-	-	*	
PCB-148	*	*	n	NotFnd	0.75	*			1350	1110	0.670	
PCB-154	3.25e+06	1.26	y	37:09	0.77	78.9			-	-	*	
13C-PCB-155	1.06e+08	1.29	y	34:12	1.35	1560						78.4
13C-PCB-111	9.31e+07	1.59	y	36:16	1.21	1540						77.4
13C-PCB-101	9.94e+07	1.60	y	34:39	-	30.9						
PCB-84	1.64e+08	1.59	y	34:18	0.85	3110			-	-	*	Co-elute PCB 92
PCB-92	1.64e+08	1.59	y	34:18	0.85	3110			-	-	*	Co-elute PCB 84
PCB-89	4.03e+06	1.52	y	34:29	0.79	81.9			-	-	*	
PCB-90	4.96e+08	1.58	y	34:40	0.92	8710			-	-	*	Co-elute PCB 101
PCB-101	4.96e+08	1.58	y	34:40	0.92	8710			-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*			1930	1440	0.557	
PCB-99	1.86e+08	1.58	y	34:59	0.96	3140			-	-	*	
PCB-119	8.80e+06	1.56	y	35:24	1.17	121			-	-	*	
PCB-83	1.90e+07	1.59	y	35:34	0.92	332			-	-	*	Co-elute PCB 112
PCB-112	1.90e+07	1.59	y	35:34	0.92	332			-	-	*	Co-elute PCB 83
PCB-109	2.30e+05	1.56	y	35:42	1.09	3.40		J	-	-	*	
PCB-97	1.25e+08	1.59	y	35:53	0.75	2690			-	-	*	
PCB-86	*	*	n	NotFnd	0.83	*			1930	1440	0.734	
PCB-125	2.06e+08	1.59	y	36:10	1.00	3320			-	-	*	Co-elute PCB 87/117
PCB-87	2.06e+08	1.59	y	36:10	1.00	3320			-	-	*	Co-elute PCB 125/117
PCB-117	2.06e+08	1.59	y	36:10	1.00	3320			-	-	*	Co-elute PCB 125/87
PCB-111	1.21e+07	1.56	y	36:19	1.12	173			-	-	*	Co-elute PCB 115
PCB-115	1.21e+07	1.56	y	36:19	1.12	173			-	-	*	Co-elute PCB 111
PCB-85	6.86e+07	1.59	y	36:25	0.98	1130			-	-	*	Co-elute PCB 116
PCB-116	6.86e+07	1.59	y	36:25	0.98	1130			-	-	*	Co-elute PCB 85
PCB-120	1.75e+06	1.56	y	36:36	1.21	23.2			-	-	*	
PCB-110	5.98e+08	1.59	y	36:46	1.12	8600			-	-	*	
PCB-82	3.95e+07	1.60	y	37:23	0.65	976			-	-	*	
PCB-124	2.57e+07	1.52	y	38:02	1.16	356			-	-	*	
PCB-108	3.72e+07	1.55	y	38:10	1.12	537			-	-	*	Co-elute PCB 107
PCB-107	3.72e+07	1.55	y	38:10	1.12	537			-	-	*	Co-elute PCB 108
PCB-123	9.03e+06	1.66	y	38:20	0.97	158			-	-	*	
13C-PCB-123	1.18e+08	1.58	y	38:19	1.48	1470						74.0
PCB-118	5.82e+08	1.56	y	38:30	1.06	8430			-	-	*	Co-elute PCB 106
PCB-106	5.82e+08	1.56	y	38:30	1.06	8430			-	-	*	Co-elute PCB 118
13C-PCB-118	1.30e+08	1.60	y	38:29	1.54	1560						78.4
PCB-114	1.60e+07	1.53	y	39:08	1.07	242			-	-	*	
13C-PCB-114	1.24e+08	1.61	y	39:06	1.46	1560						78.6
PCB-122	7.43e+06	1.55	y	39:15	1.09	110			-	-	*	
PCB-105	2.34e+08	1.56	y	39:56	1.14	3330			-	-	*	
13C-PCB-105	1.22e+08	1.61	y	39:56	1.40	1620						81.5

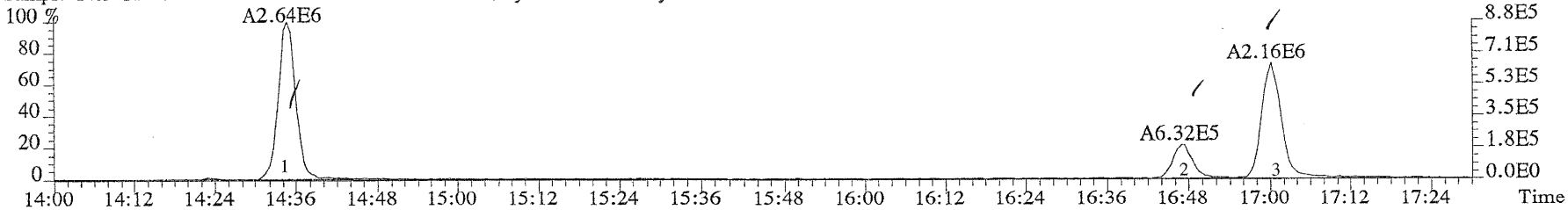
PCB-127	*	*	n	NotFnd	1.00	*	1680	1220	0.526		
PCB-126	2.80e+06	1.50	y	42:03	1.10	41.6	-	-	*		
13C-PCB-126	1.22e+08	1.60	y	42:03	1.32	1700				85.6	
PCB-151	7.46e+07	1.28	y	37:46	1.10	1270	-	-	*		
PCB-135	4.84e+07	1.27	y	37:59	1.01	890	-	-	*		
PCB-144	1.98e+07	1.28	y	38:06	1.25	295	-	-	*		
PCB-147	8.42e+06	1.26	y	38:12	1.15	137	-	-	*		
PCB-139	3.34e+08	1.27	y	38:27	1.18	5290	-	-	*	Co-elute PCB 149	
PCB-149	3.34e+08	1.27	y	38:27	1.18	5290	-	-	*	Co-elute PCB 139	
PCB-140	2.31e+06	1.27	y	38:37	1.16	37.1	-	-	*		
PCB-143	2.26e+07	1.27	y	39:03	0.96	439	-	-	*	Co-elute PCB 134	
PCB-134	2.26e+07	1.27	y	39:03	0.96	439	-	-	*	Co-elute PCB 143	
PCB-131	1.18e+07	1.29	y	39:20	0.94	233	-	-	*	Co-elute PCB 133	
PCB-133	1.18e+07	1.29	y	39:20	0.94	233	-	-	*	Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.99	*	1480	1060	0.534		
PCB-165	5.72e+07	1.27	y	39:41	1.26	848	-	-	*	Co-elute PCB 146	
PCB-146	5.72e+07	1.27	y	39:41	1.26	848	-	-	*	Co-elute PCB 165	
PCB-161	1.31e+08	1.25	y	39:57	1.15	2120	-	-	*	Co-elute PCB 132	
PCB-132	1.31e+08	1.25	y	39:57	1.15	2120	-	-	*	Co-elute PCB 161	
PCB-153	4.24e+08	1.27	y	40:04	1.27	6200	-	-	*		
PCB-168	*	*	n	NotFnd	1.35	*	1480	1060	0.389		
PCB-141	8.12e+07	1.27	y	40:45	1.02	1480	-	-	*		
PCB-137	2.26e+07	1.25	y	41:08	0.94	450	-	-	*		
PCB-130	2.74e+07	1.27	y	41:13	0.89	573	-	-	*		
PCB-138	5.29e+08	1.26	y	41:35	1.25	7900	-	-	*	Co-elute PCB 163/164	
PCB-163	5.29e+08	1.26	y	41:35	1.25	7900	-	-	*	Co-elute PCB 138/164	
PCB-164	5.29e+08	1.26	y	41:35	1.25	7900	-	-	*	Co-elute PCB 138/163	
PCB-158	7.20e+07	1.24	y	41:48	1.33	1010	-	-	*	Co-elute PCB 160	
PCB-160	7.20e+07	1.24	y	41:48	1.33	1010	-	-	*	Co-elute PCB 158	
PCB-129	2.08e+07	1.26	y	42:03	0.85	455	-	-	*		
PCB-166	2.72e+06	1.31	y	42:29	1.28	39.5	-	-	*		
PCB-159	4.20e+06	1.24	y	42:50	1.37	57.3	-	-	*		
PCB-128	7.99e+07	1.25	y	43:03	1.08	1380	-	-	*	Co-elute PCB 162	
PCB-162	7.99e+07	1.25	y	43:03	1.08	1380	-	-	*	Co-elute PCB 128	
PCB-167	2.37e+07	1.26	y	43:25	1.18	377	-	-	*		
13C-PCB-167	1.06e+08	1.28	y	43:23	1.13	1740				87.7	
PCB-156	6.84e+07	1.26	y	44:39	1.24	1030	-	-	*		
13C-PCB-156	1.06e+08	1.30	y	44:37	1.06	1840				92.4	
PCB-157	1.40e+07	1.27	y	44:54	1.18	220	-	-	*		
13C-PCB-157	1.07e+08	1.29	y	44:54	1.07	1850				93.2	
PCB-169	*	*	n	NotFnd	1.12	*	1480	1060	0.438		
13C-PCB-169	1.08e+08	1.27	y	46:46	1.00	1990				100	

FAL ID: 12532-006-0001-SA Filename: 24JUL19Z Sam:10 Acquired: 24-JUL-19 19:49:47 ICal: DAILYFAL4-7-24-19
Client ID: LDW-Y2-SU-ENR+AC-CC-CORE ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 5.030

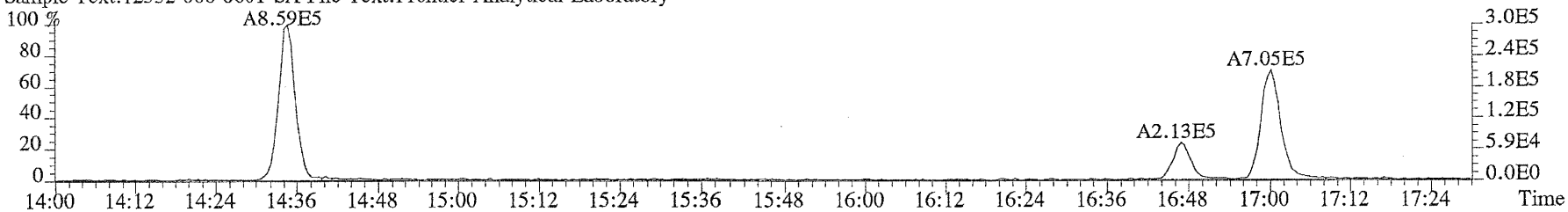
PCB-188	9.98e+04	0.98	y	39:43	1.03	2.00	J	-	-	*	
13C-PCB-188	9.61e+07	1.05	y	39:41	1.26	1410					70.8
PCB-184	*	*	n	NotFnd	1.18	*		2050	1160	0.551	
PCB-179	3.38e+07	1.04	y	40:52	1.11	637		-	-	*	
PCB-176	1.18e+07	1.04	y	41:18	1.08	230		-	-	*	
PCB-186	*	*	n	NotFnd	1.08	*		2050	1160	0.603	
PCB-178	1.14e+07	1.03	y	42:21	0.74	321		-	-	*	
PCB-175	2.93e+06	1.01	y	42:40	0.76	81.2		-	-	*	
PCB-187	7.17e+07	1.05	y	42:49	0.82	1830		-	-	*	Co-elute PCB 182
PCB-182	7.17e+07	1.05	y	42:49	0.82	1830		-	-	*	Co-elute PCB 187
PCB-183	3.96e+07	1.04	y	43:08	0.80	1040		-	-	*	
PCB-185	7.12e+06	1.04	y	43:46	0.71	211		-	-	*	
PCB-174	6.05e+07	1.05	y	44:06	0.73	1740		-	-	*	
PCB-181	*	*	n	NotFnd	0.66	*		2050	1160	0.990	
PCB-177	3.39e+07	1.05	y	44:22	0.64	1100		-	-	*	
PCB-171	1.84e+07	1.04	y	44:39	0.69	561		-	-	*	
PCB-173	1.45e+06	1.00	y	45:04	0.62	49.4		-	-	*	
PCB-172	1.01e+07	1.04	y	45:27	0.64	334		-	-	*	
PCB-192	*	*	n	NotFnd	0.84	*		2050	1160	0.776	
PCB-180	1.45e+08	1.06	y	45:46	0.65	4690		-	-	*	
PCB-193	8.34e+06	1.04	y	45:58	0.90	195		-	-	*	
PCB-191	3.65e+06	1.05	y	46:11	0.83	91.9		-	-	*	
PCB-170	6.03e+07	1.07	y	47:05	0.60	2110		-	-	*	
PCB-190	1.71e+07	1.04	y	47:14	0.85	424		-	-	*	
PCB-189	3.42e+06	1.00	y	48:26	1.06	68.5		-	-	*	
13C-PCB-189	9.35e+07	1.06	y	48:26	0.96	1800					90.6
PCB-202	5.24e+06	0.89	y	44:49	1.03	123		-	-	*	
PCB-201	4.10e+06	0.90	y	45:17	1.09	90.6		-	-	*	
PCB-204	*	*	n	NotFnd	1.05	*		788	1040	0.447	
PCB-197	1.31e+06	0.87	y	45:40	1.09	28.8		-	-	*	
PCB-200	4.04e+06	0.90	y	46:26	1.04	93.3		-	-	*	
PCB-198	1.03e+06	0.96	y	47:35	0.70	35.4		-	-	*	
PCB-199	2.20e+07	0.89	y	47:42	0.70	759		-	-	*	
PCB-203	2.69e+07	0.89	y	47:56	0.83	782		-	-	*	Co-elute PCB 196
PCB-196	2.69e+07	0.89	y	47:56	0.83	782		-	-	*	Co-elute PCB 203
13C-PCB-202	8.25e+07	0.91	y	44:47	0.89	1720					86.6
13C-PCB-178	6.43e+07	1.07	y	42:19	0.78	1520					76.4
13C-PCB-138	1.08e+08	1.27	y	46:46	-	39.2					
PCB-195	1.07e+07	0.88	y	49:02	0.67	334		-	-	*	
PCB-194	2.61e+07	0.90	y	49:51	0.84	655		-	-	*	
PCB-205	1.75e+06	0.89	y	50:05	1.06	34.8		-	-	*	
13C-PCB-205	9.48e+07	0.89	y	50:05	1.30	1740					87.3
PCB-208	2.10e+06	1.35	y	49:10	1.09	43.7		-	-	*	
13C-PCB-208	8.79e+07	0.81	y	49:09	1.05	1990					100
PCB-207	1.25e+06	1.31	y	49:28	1.22	27.7		-	-	*	
PCB-206	6.38e+06	1.34	y	51:18	1.08	195		-	-	*	
13C-PCB-206	6.02e+07	0.80	y	51:17	0.89	1610					80.8
PCB-209	2.37e+06	1.16	y	52:30	1.14	59.2		-	-	*	
13C-PCB-209	6.97e+07	1.20	y	52:29	1.10	1500					75.4
13C-PCB-194	8.36e+07	0.91	y	49:50	-	31.7					

Analyst: _____ Date: 7/25/19

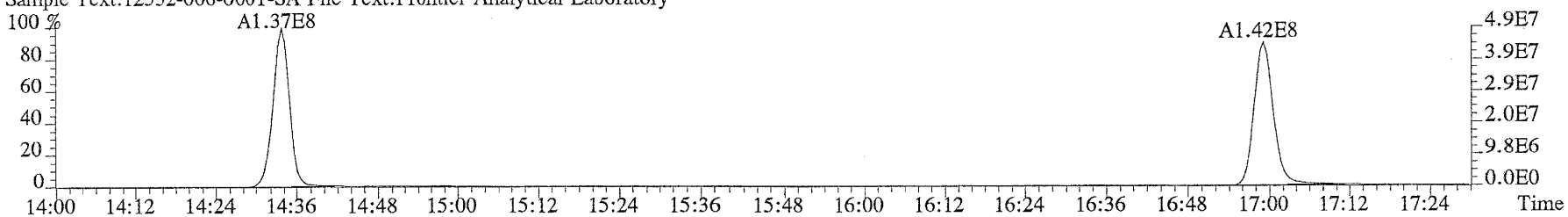
File:24JUL19Z #1-784 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



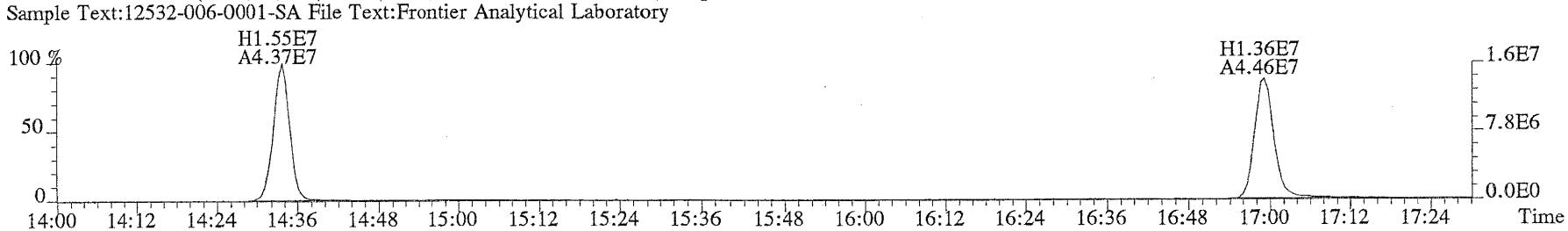
File:24JUL19Z #1-784 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



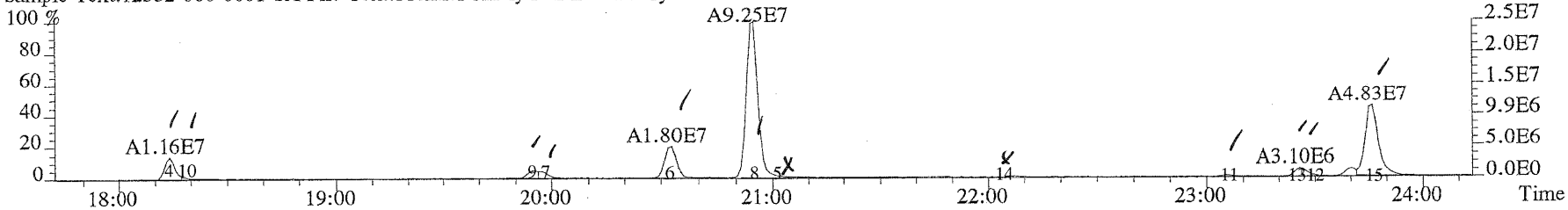
File:24JUL19Z #1-784 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



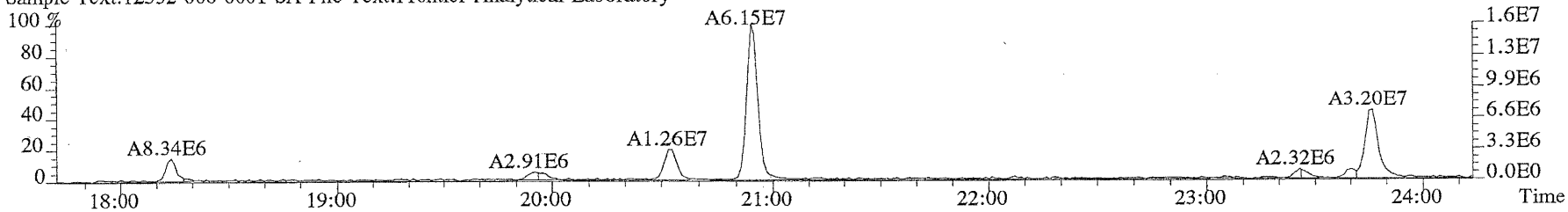
File:24JUL19Z #1-784 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



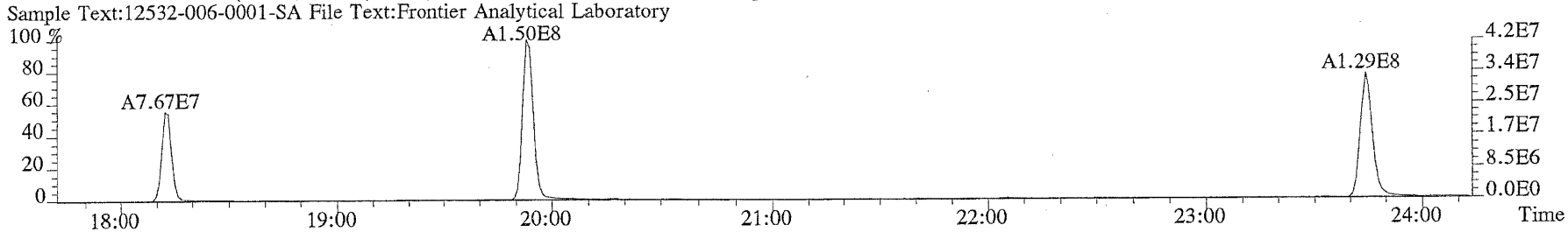
File:24JUL19Z #1-520 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



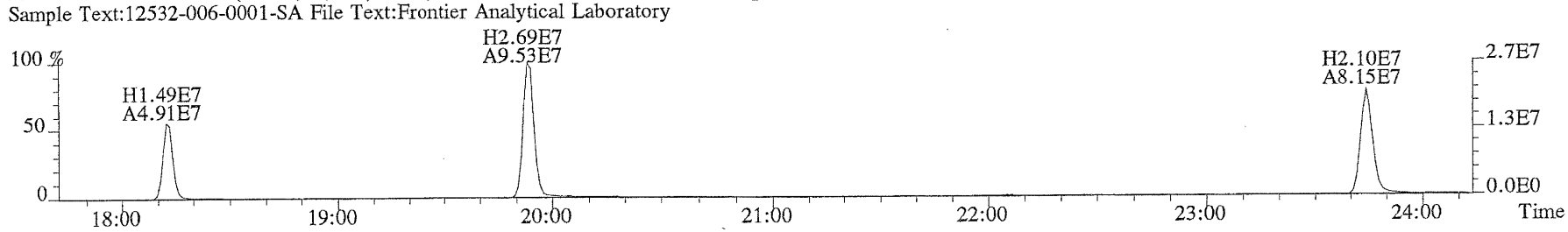
File:24JUL19Z #1-520 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



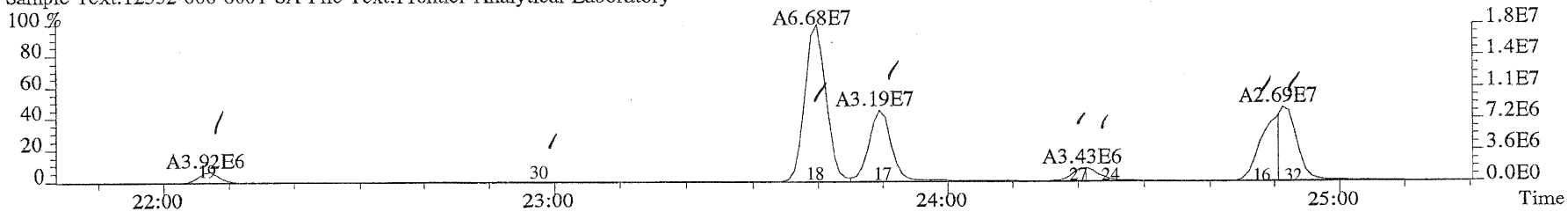
File:24JUL19Z #1-520 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



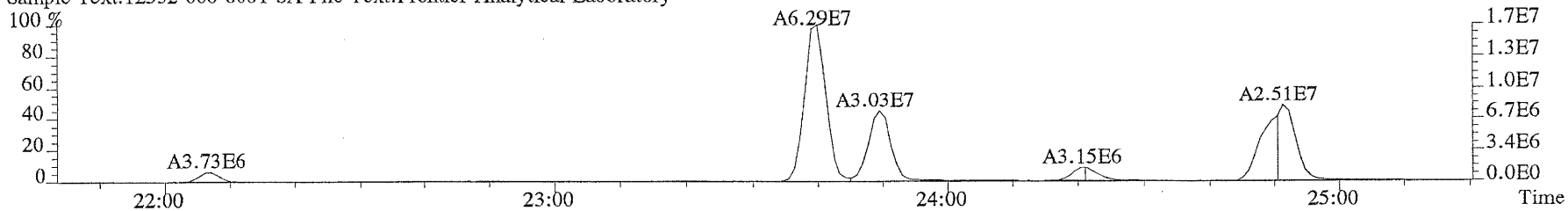
File:24JUL19Z #1-520 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



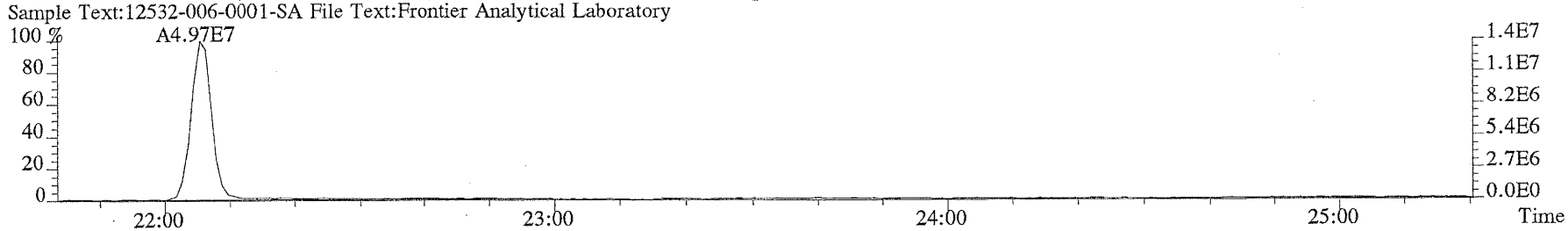
File:24JUL19Z #1-520 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



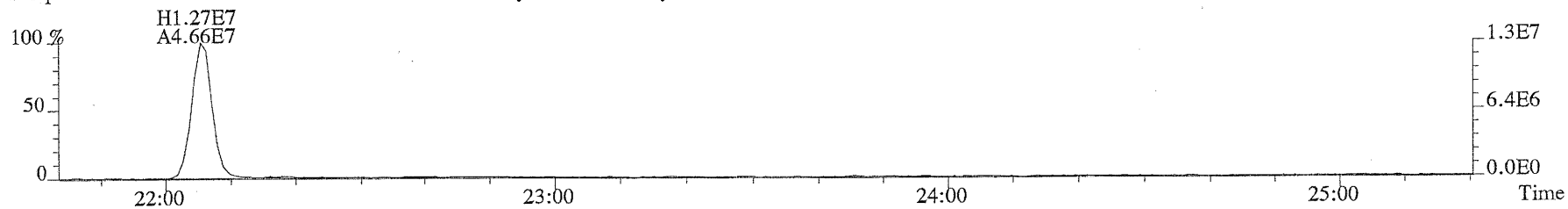
File:24JUL19Z #1-520 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



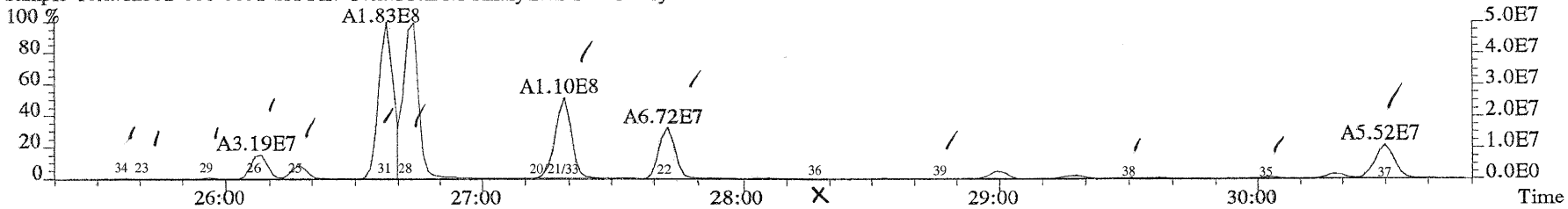
File:24JUL19Z #1-520 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



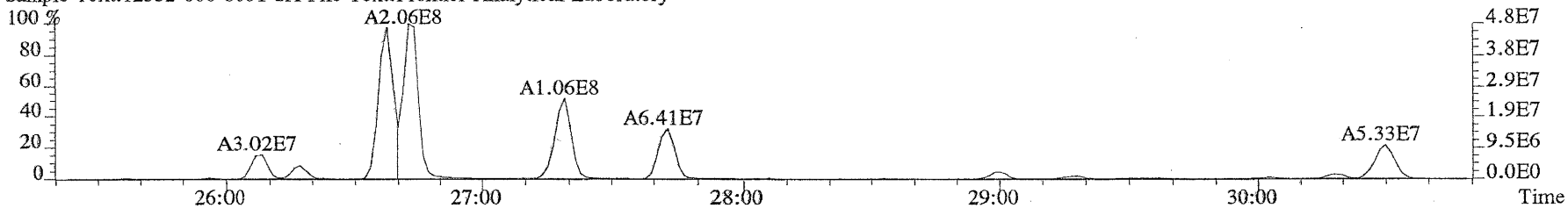
File:24JUL19Z #1-520 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



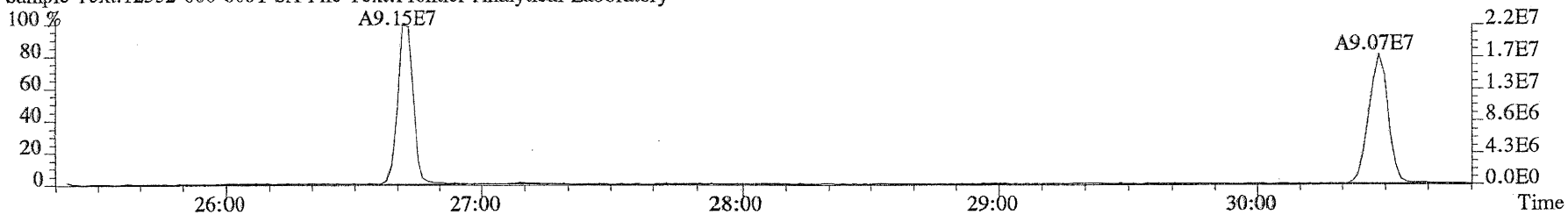
File:24JUL19Z #1-401 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



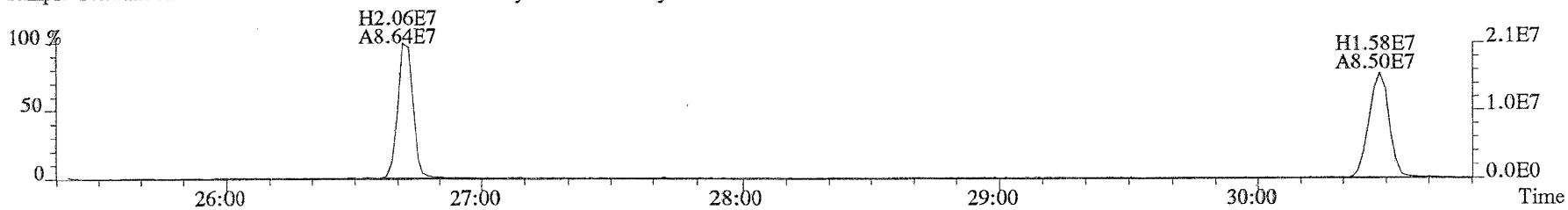
File:24JUL19Z #1-401 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



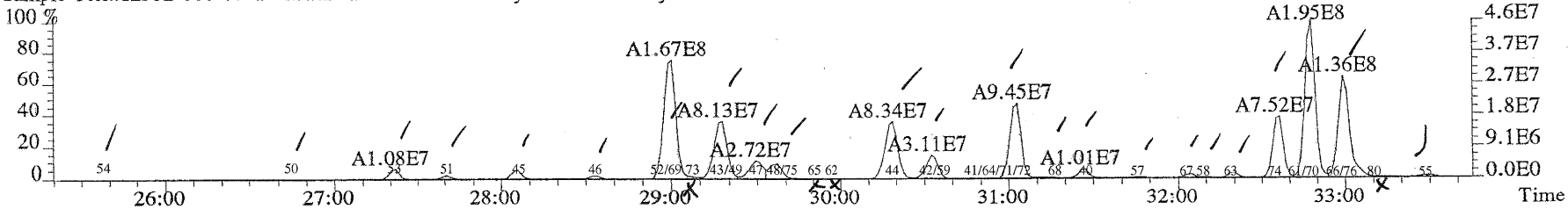
File:24JUL19Z #1-401 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



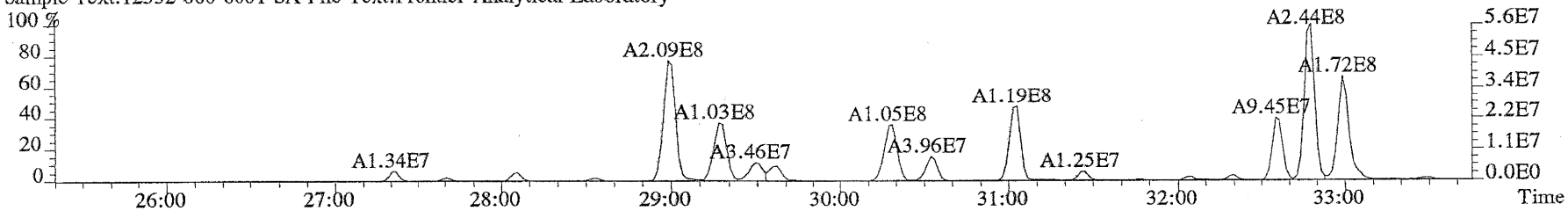
File:24JUL19Z #1-401 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



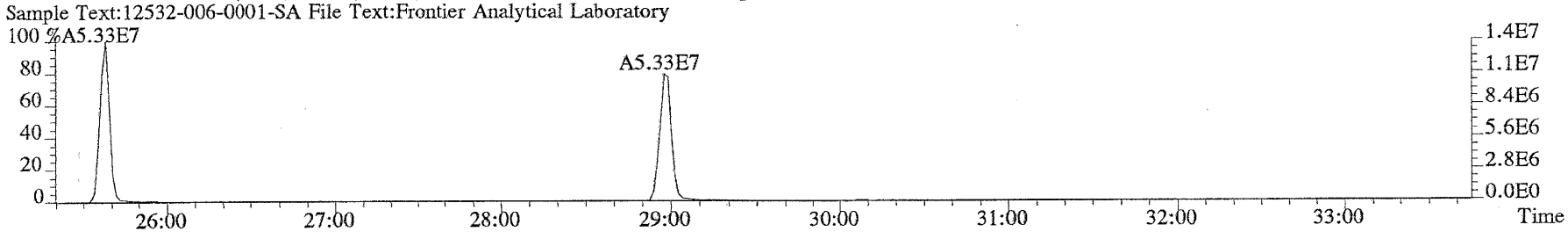
File:24JUL19Z #1-401 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



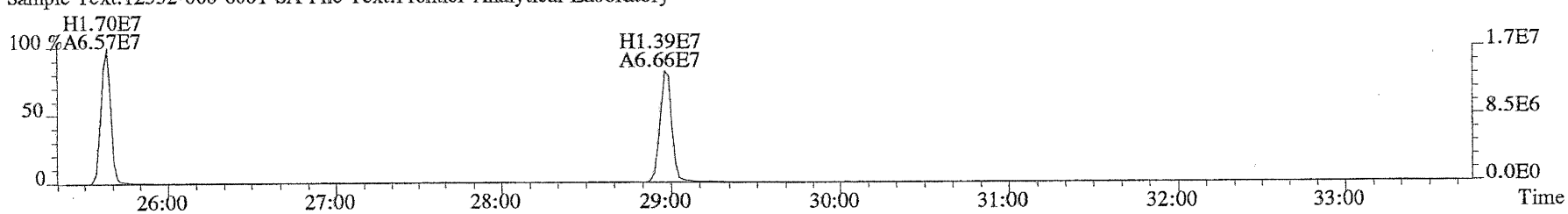
File:24JUL19Z #1-401 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



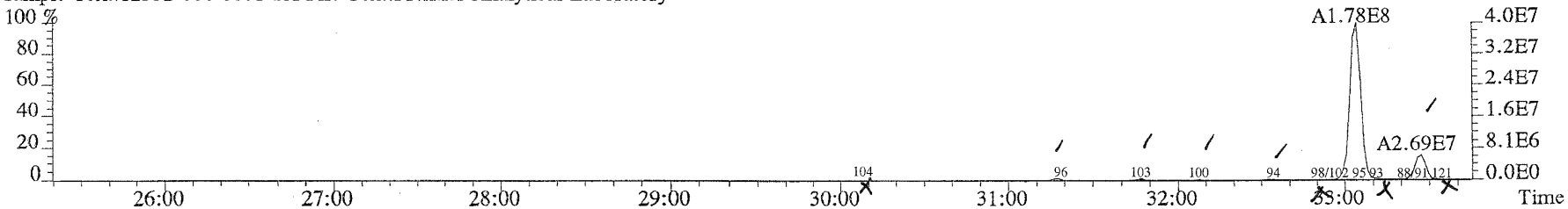
File:24JUL19Z #1-401 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



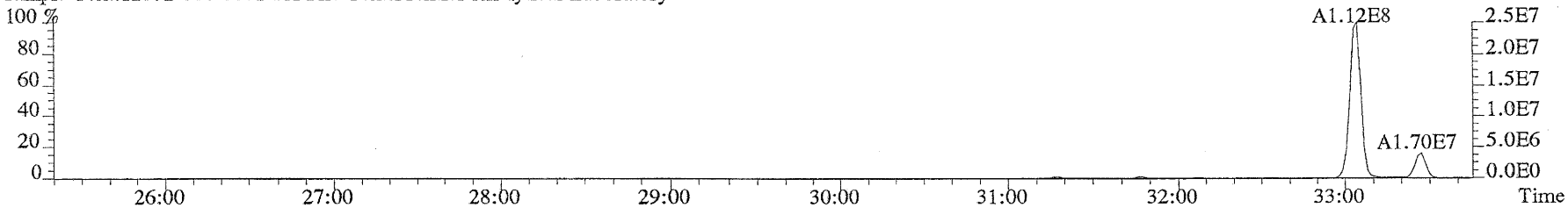
File:24JUL19Z #1-401 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



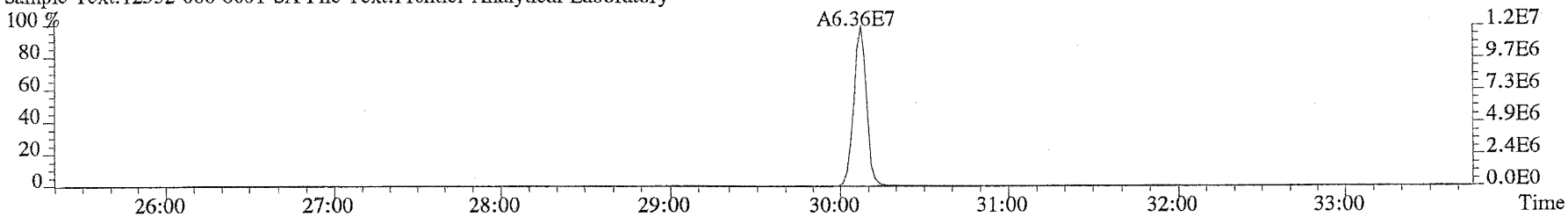
File:24JUL19Z #1-401 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



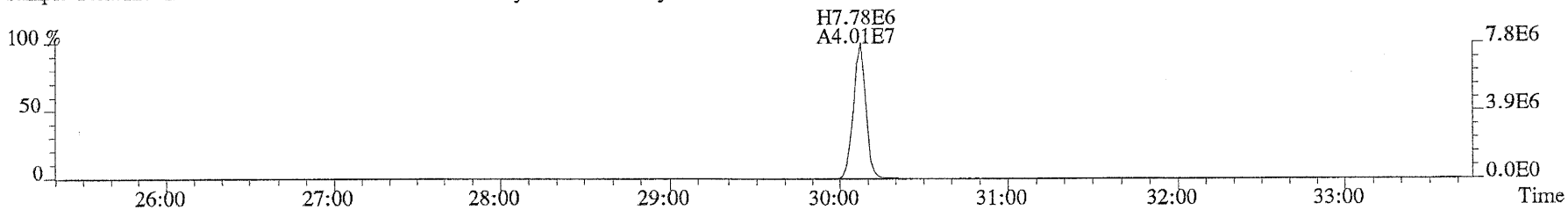
File:24JUL19Z #1-401 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



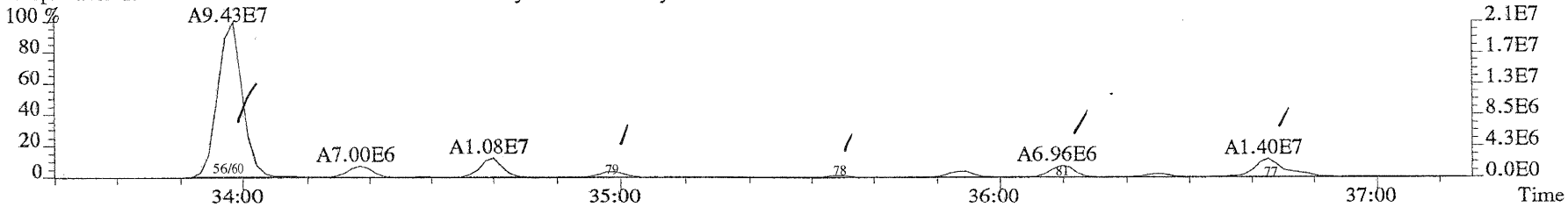
File:24JUL19Z #1-401 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



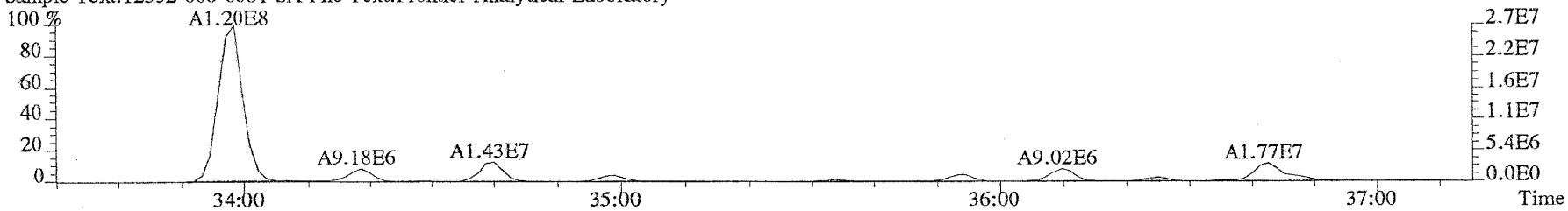
File:24JUL19Z #1-401 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



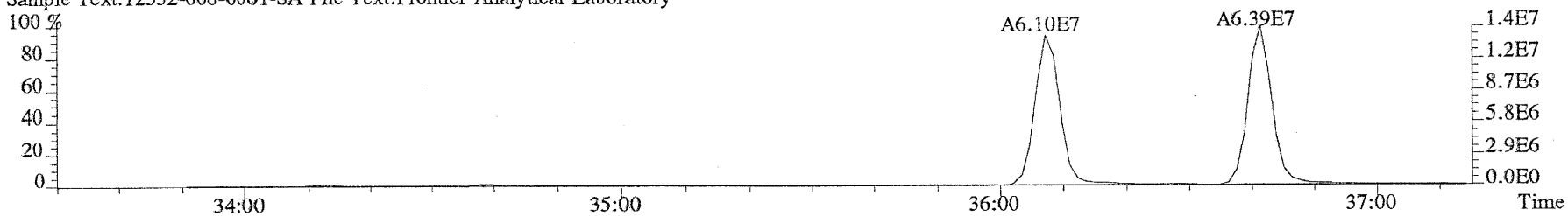
File:24JUL19Z #1-181 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



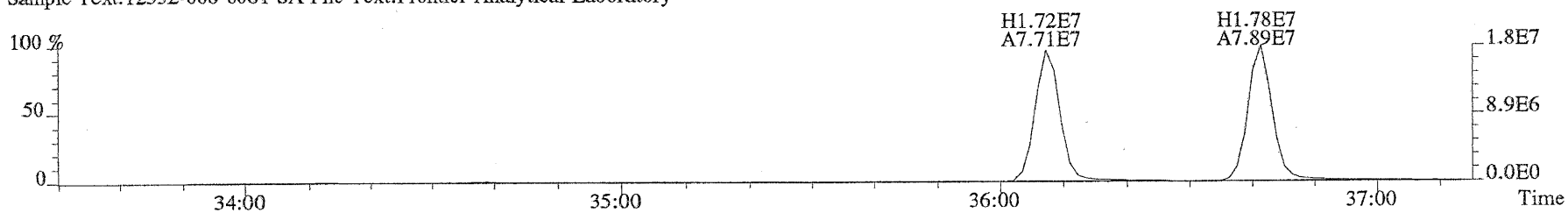
File:24JUL19Z #1-181 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



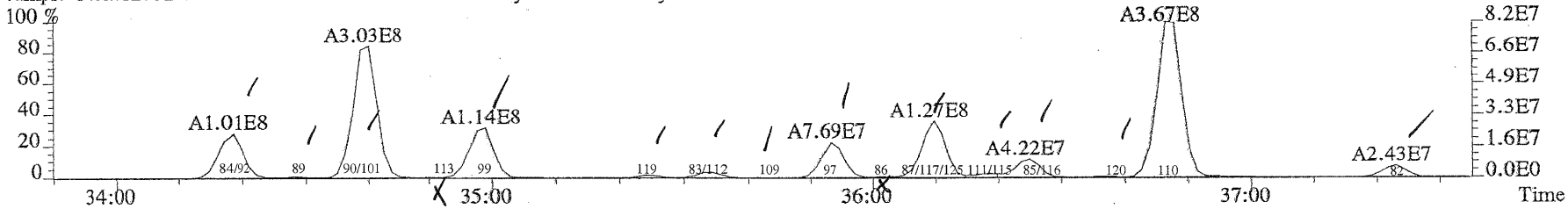
File:24JUL19Z #1-181 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



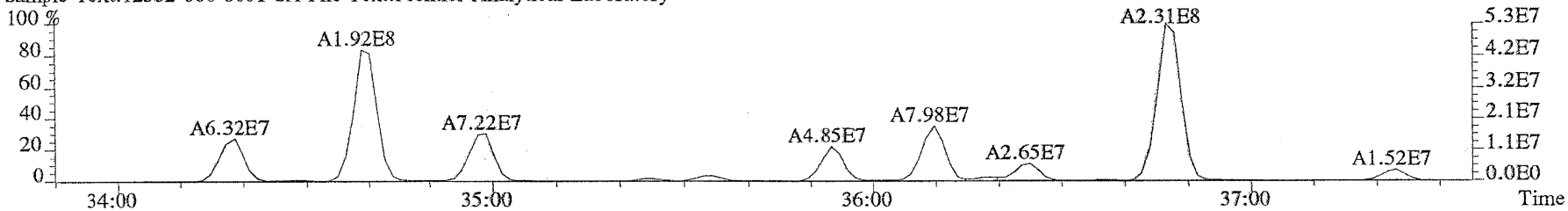
File:24JUL19Z #1-181 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



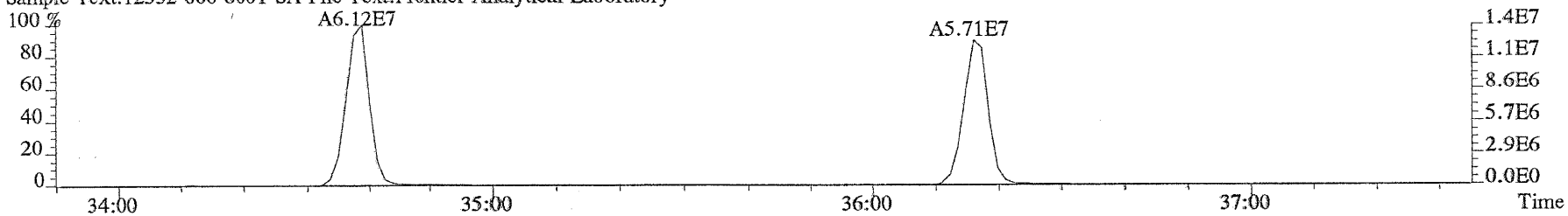
File:24JUL19Z #1-181 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



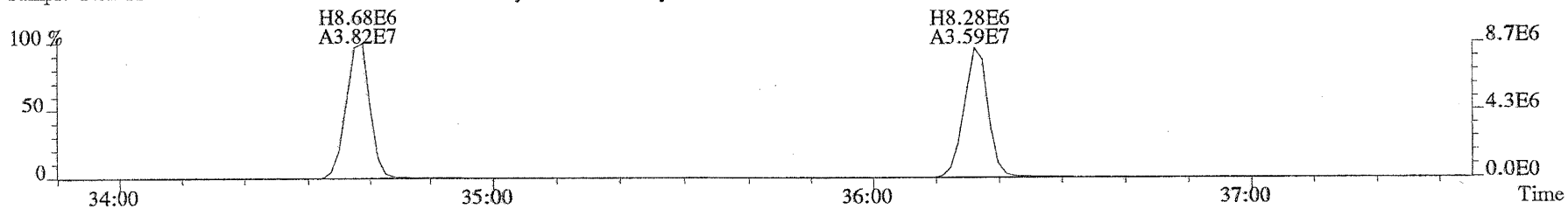
File:24JUL19Z #1-181 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



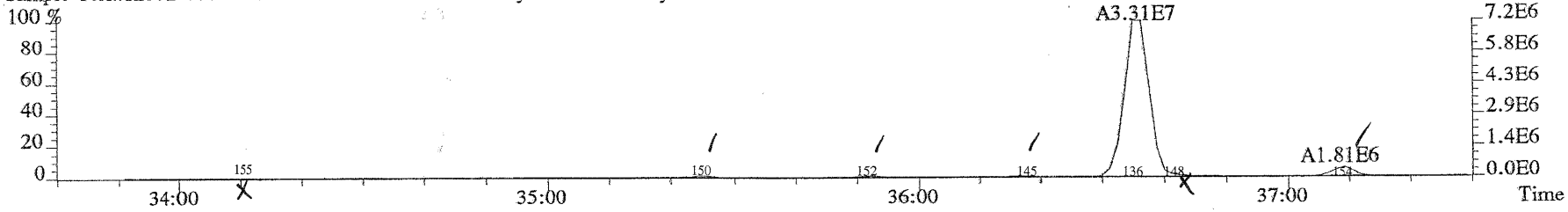
File:24JUL19Z #1-181 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



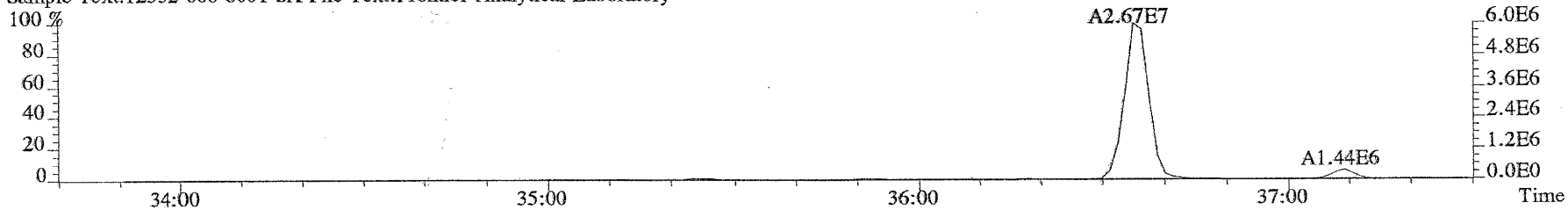
File:24JUL19Z #1-181 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



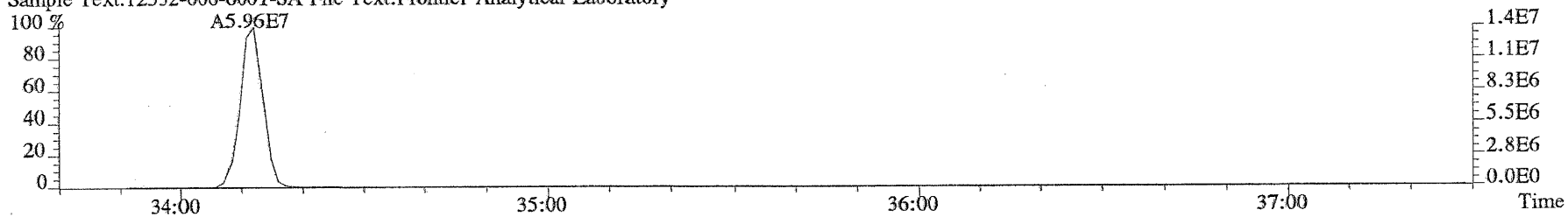
File:24JUL19Z #1-181 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



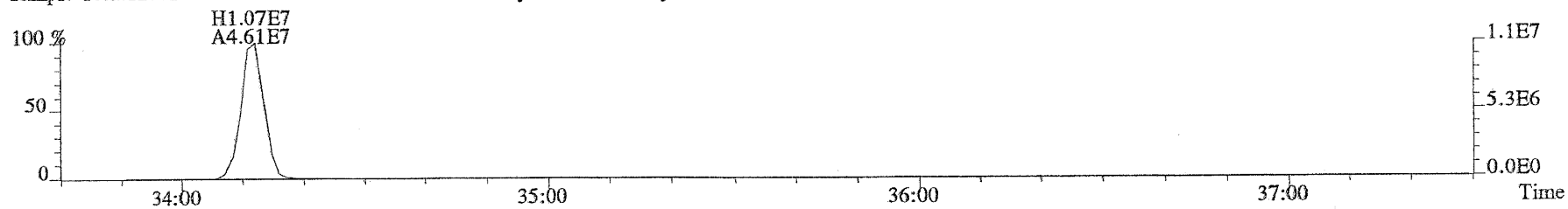
File:24JUL19Z #1-181 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



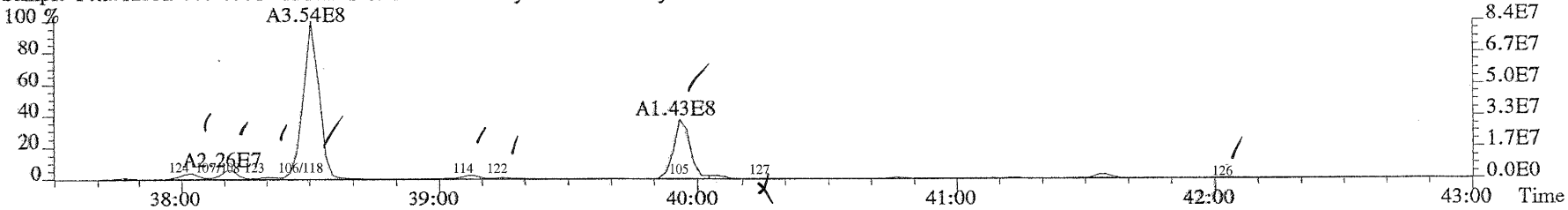
File:24JUL19Z #1-181 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



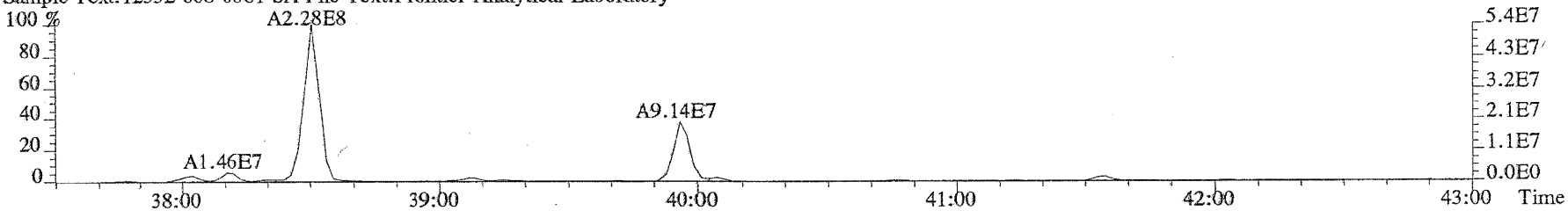
File:24JUL19Z #1-181 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



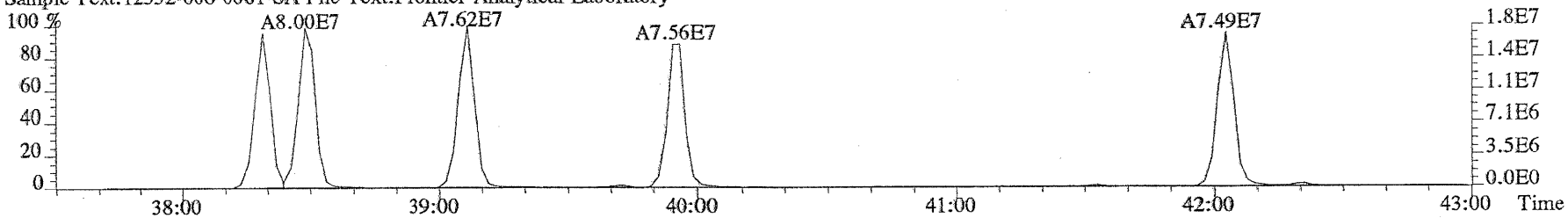
File:24JUL19Z #1-405 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



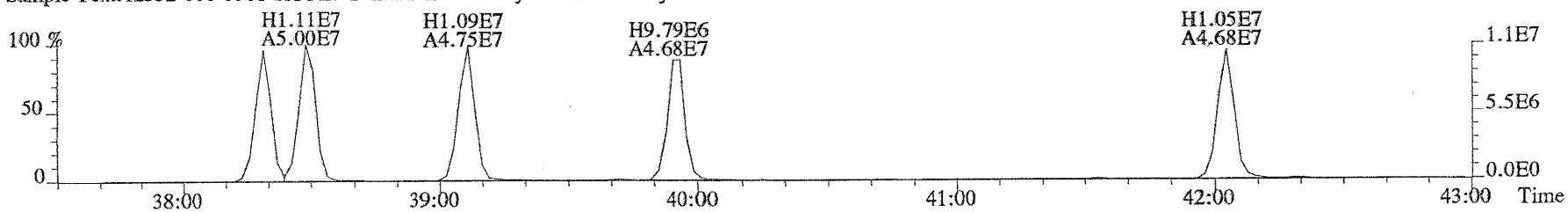
File:24JUL19Z #1-405 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



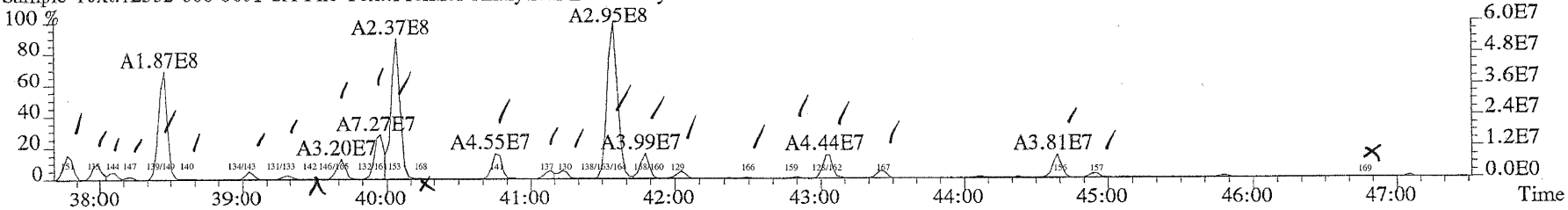
File:24JUL19Z #1-405 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



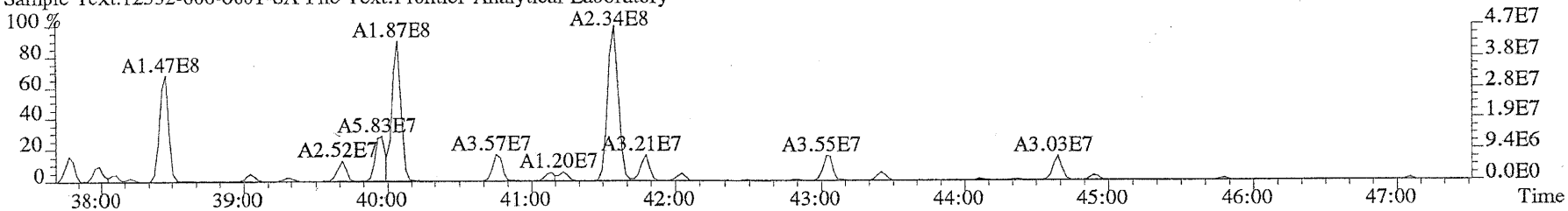
File:24JUL19Z #1-405 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



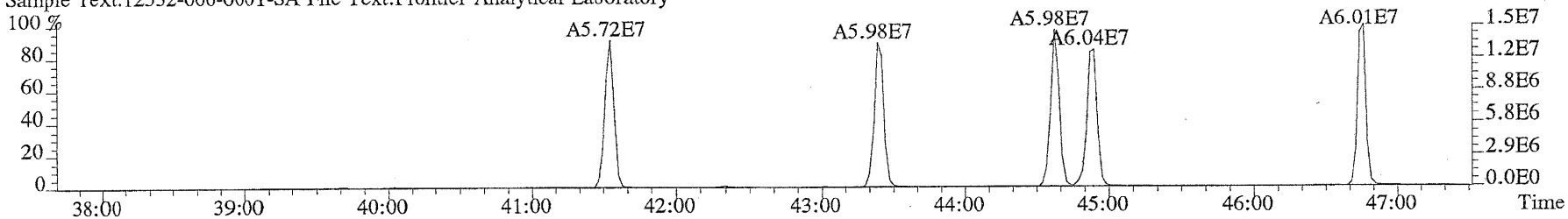
File:24JUL19Z #1-405 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



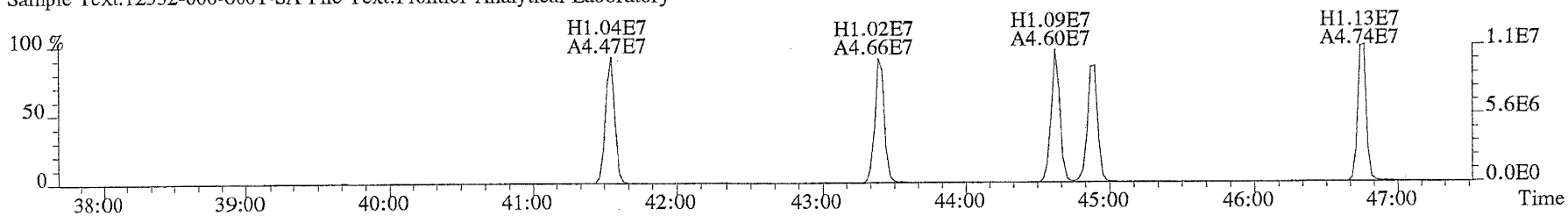
File:24JUL19Z #1-405 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



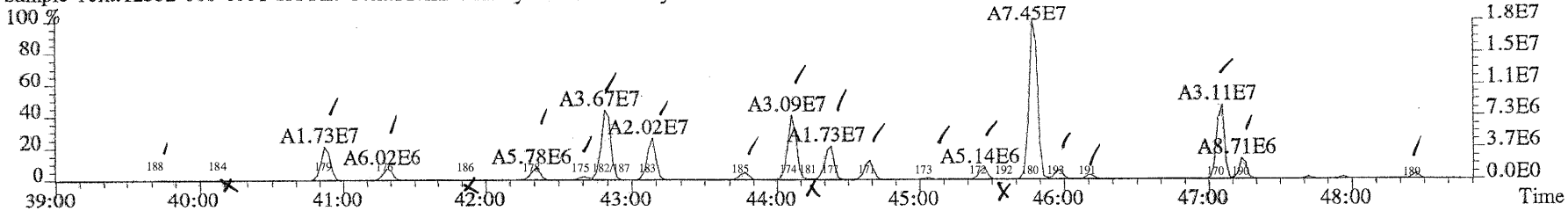
File:24JUL19Z #1-405 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



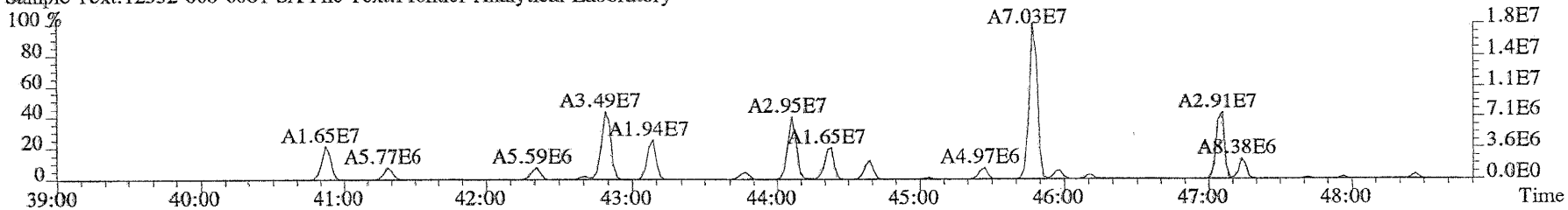
File:24JUL19Z #1-405 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



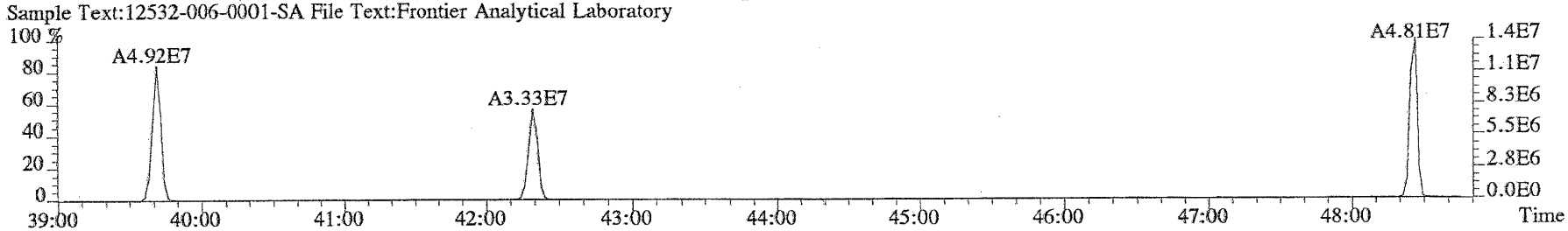
File:24JUL19Z #1-405 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



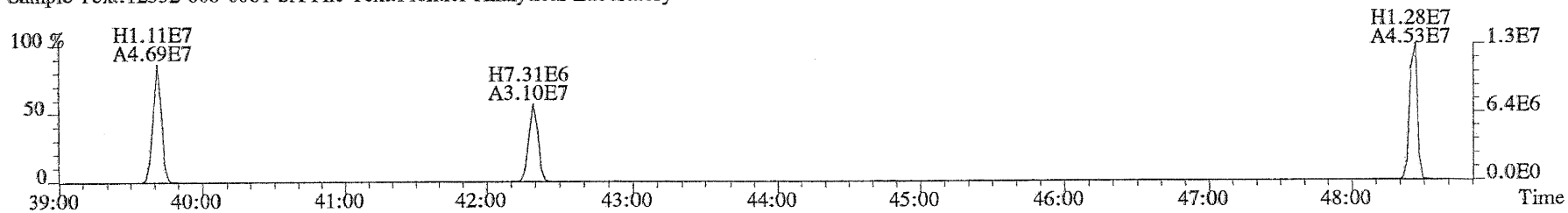
File:24JUL19Z #1-405 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



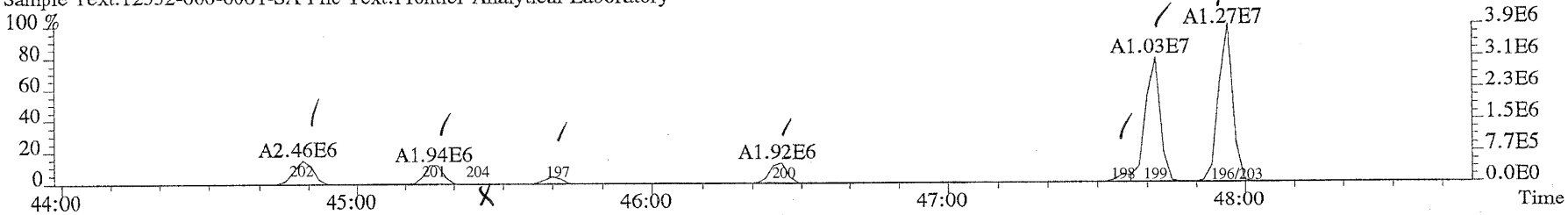
File:24JUL19Z #1-405 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



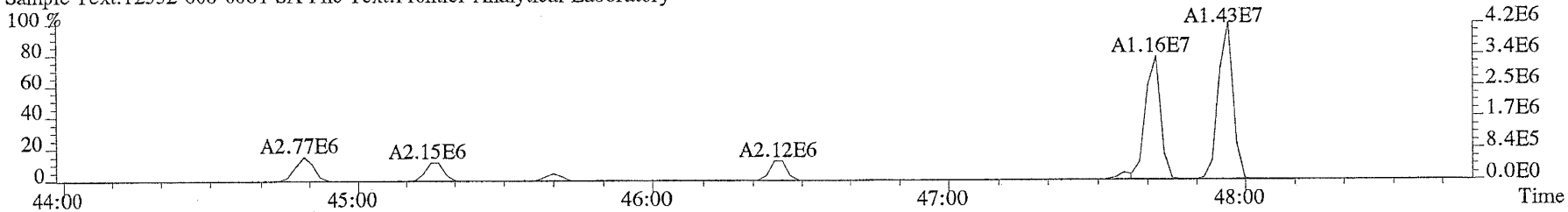
File:24JUL19Z #1-405 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



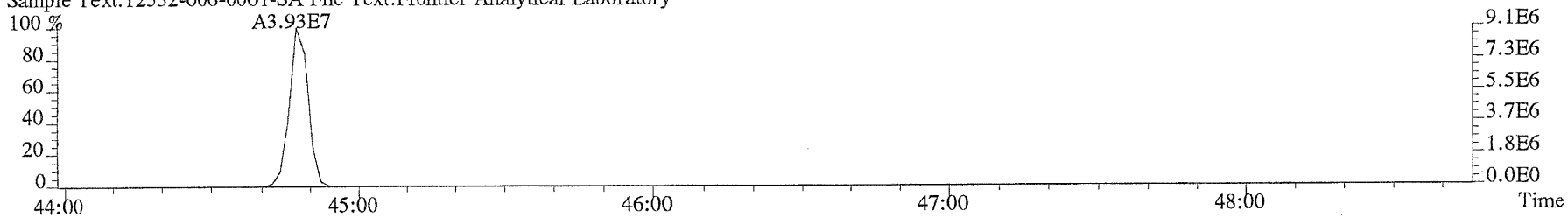
File:24JUL19Z #1-405 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



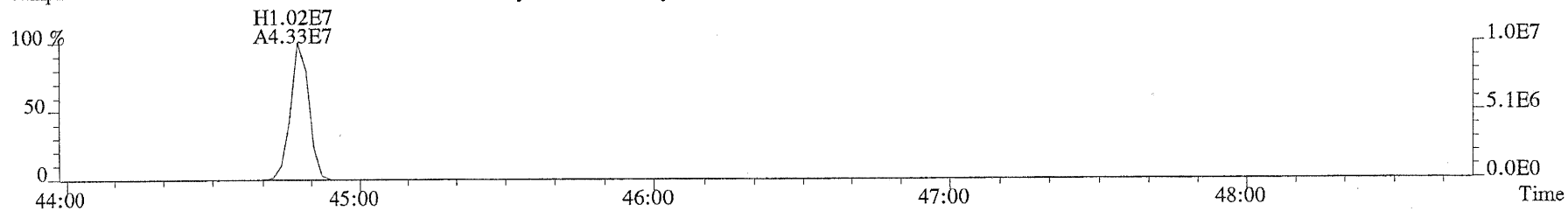
File:24JUL19Z #1-405 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



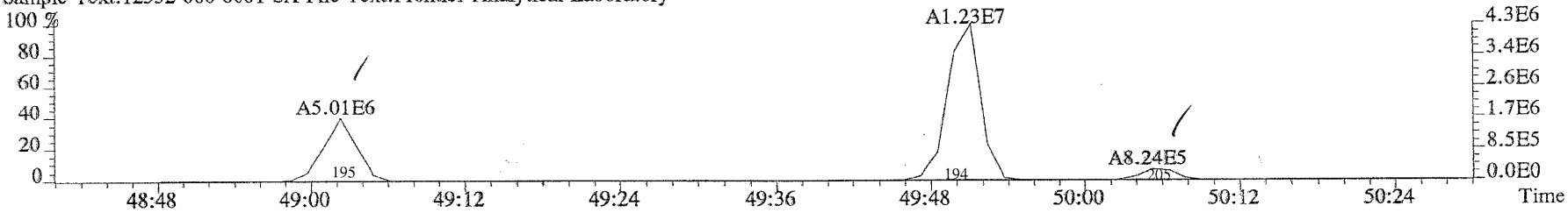
File:24JUL19Z #1-405 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



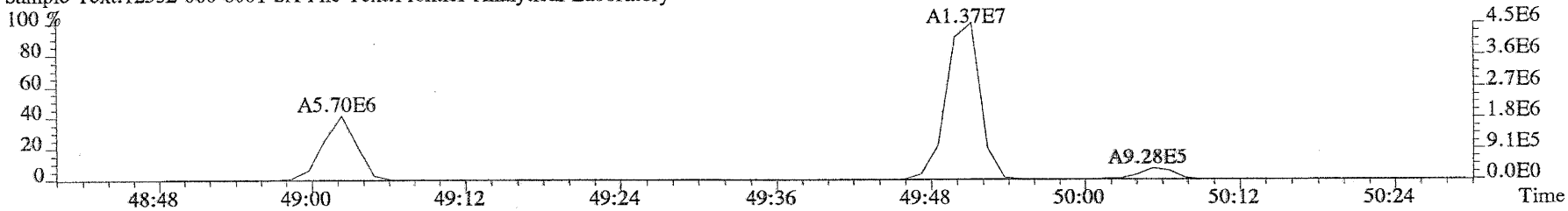
File:24JUL19Z #1-405 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



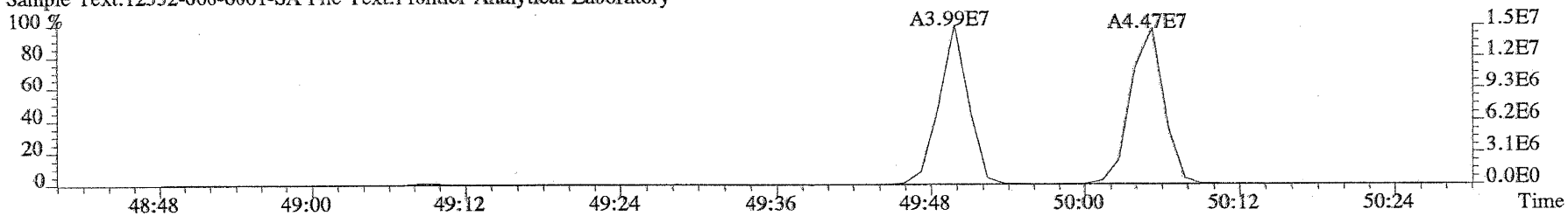
File:24JUL19Z #1-314 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



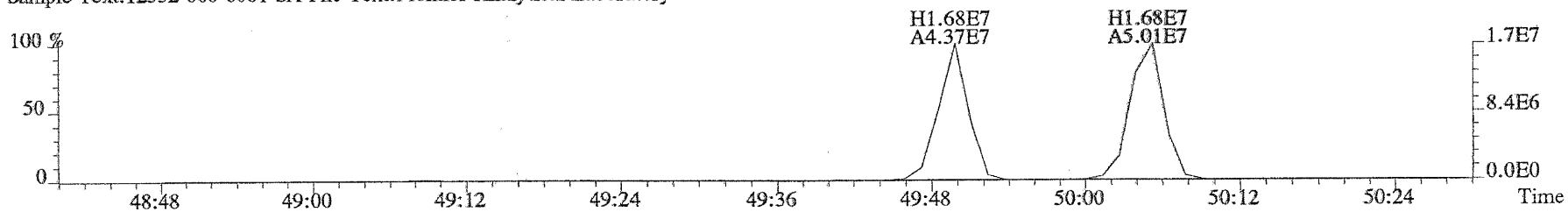
File:24JUL19Z #1-314 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



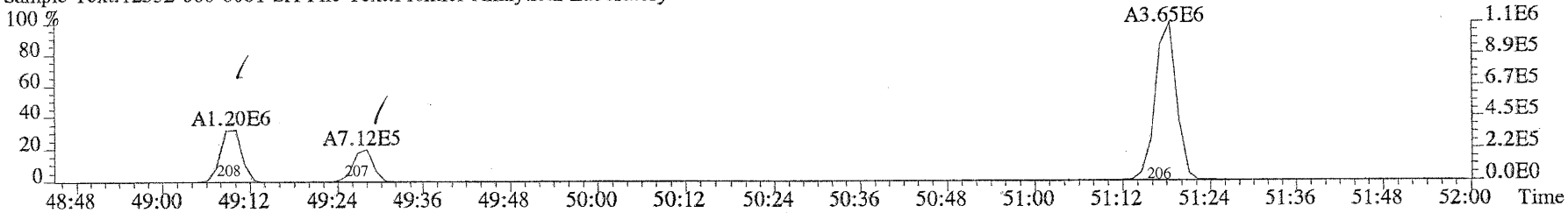
File:24JUL19Z #1-314 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



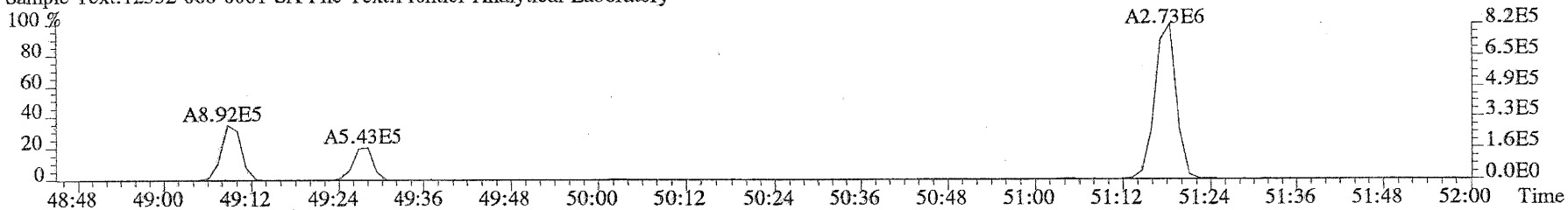
File:24JUL19Z #1-314 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



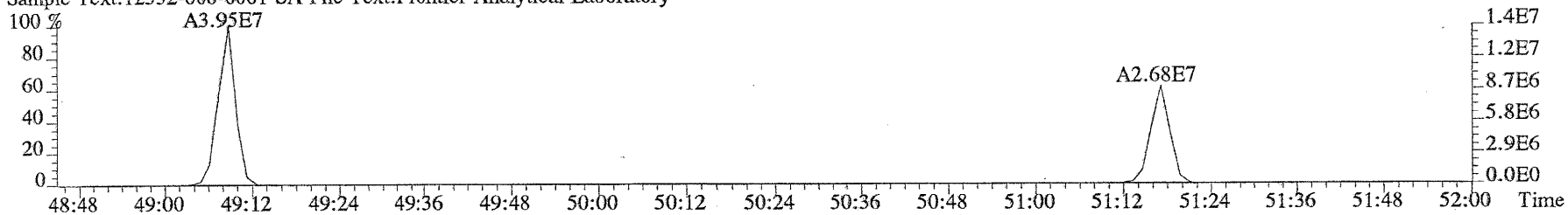
File:24JUL19Z #1-314 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



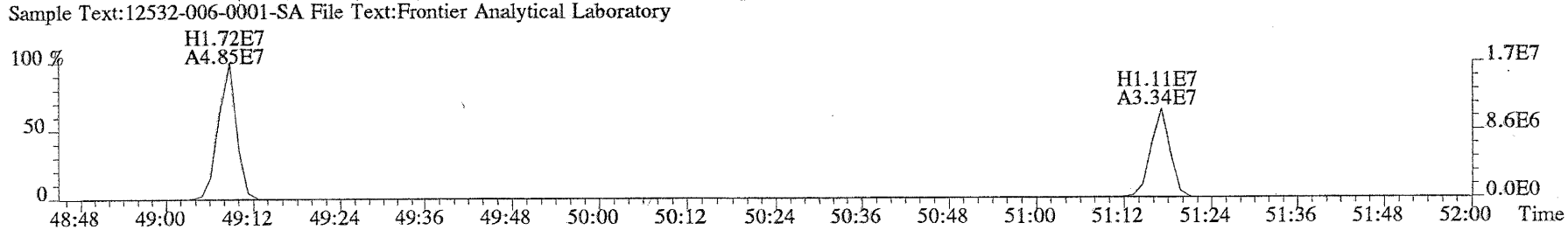
File:24JUL19Z #1-314 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



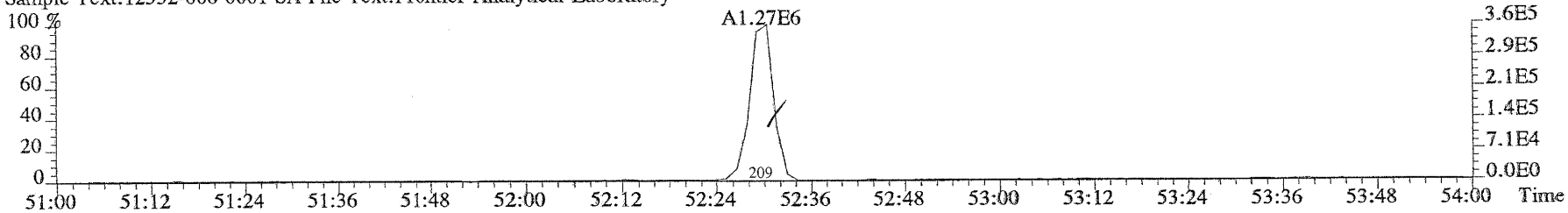
File:24JUL19Z #1-314 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



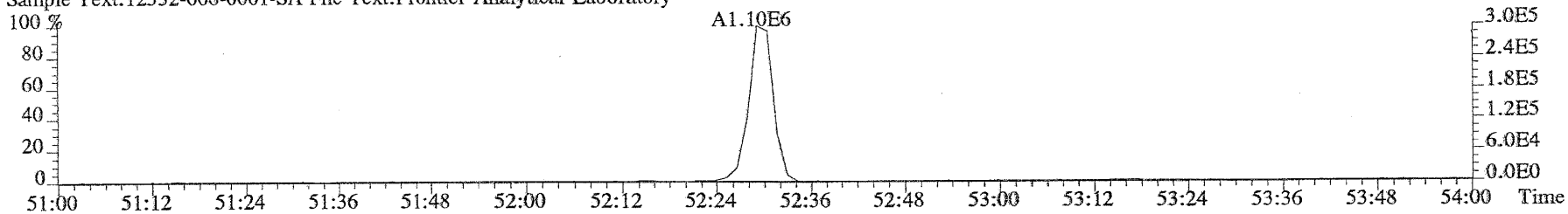
File:24JUL19Z #1-314 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



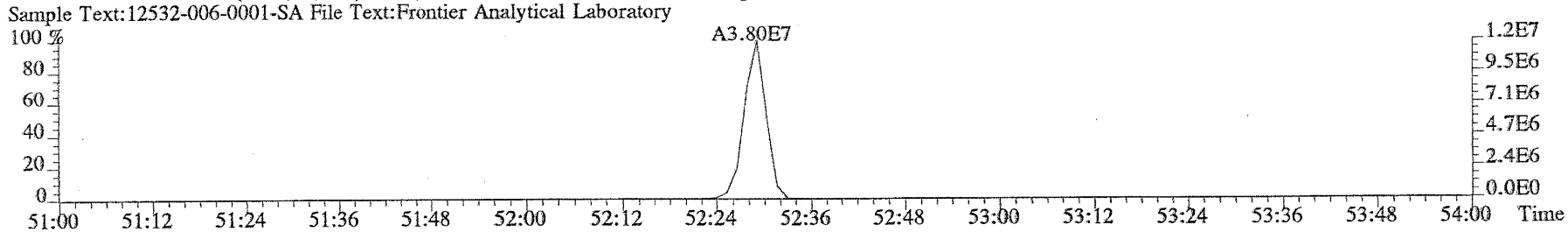
File:24JUL19Z #1-314 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



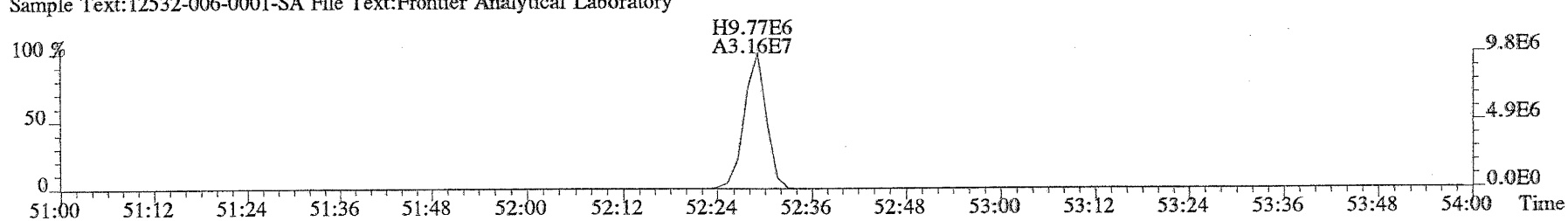
File:24JUL19Z #1-314 Acq:24-JUL-2019 19:49:47 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-006-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-314 Acq:24-JUL-2019 19:49:47 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:12532-006-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-314 Acq:24-JUL-2019 19:49:47 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:12532-006-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12532-007-0001-SA Filename: 24JUL19Z Sam:11 Acquired: 24-JUL-19 20:48:09 ICal: DAILYFAL4-7-24-19
Client ID: LDW-Y2-IN-ENR-CA-CORE ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 5.080

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.26e+06	2.96 y	14:33	1.19	10.6		-	-	*	
13C-PCB-1	1.97e+08	3.19 y	14:32	0.82	2040					104
PCB-2	4.15e+05	2.90 y	16:47	1.22	3.35	J	-	-	*	
PCB-3	1.35e+06	3.08 y	16:59	1.21	10.8		-	-	*	
13C-PCB-3	2.03e+08	3.35 y	16:58	0.85	2040					103
PCB-4	8.16e+05	1.45 y	18:13	1.14	10.3		-	-	*	
PCB-10	*	* n	NotFnd	1.32	*		2280	9870	0.883	
13C-PCB-4	1.37e+08	1.56 y	18:12	0.63	1870					95.0
PCB-9	3.05e+05	1.52 y	19:54	1.39	2.33	J	-	-	*	
PCB-7	4.88e+05	1.42 y	19:55	1.42	3.65	J	-	-	*	
PCB-6	1.60e+06	1.70 y	20:32	1.39	12.3		-	-	*	
PCB-8	4.45e+06	1.52 y	20:54	1.41	33.5		-	-	*	
PCB-5	*	* n	NotFnd	1.37	*		2280	9870	0.852	
PCB-14	*	* n	NotFnd	1.31	*		2280	9870	0.895	
PCB-11	1.31e+06	1.46 y	23:05	1.23	11.4		-	-	*	
PCB-13	5.36e+05	1.53 y	23:25	1.26	4.51		-	-	*	
PCB-12	4.34e+05	1.50 y	23:27	1.26	3.67	J	-	-	*	
PCB-15	3.77e+06	1.38 y	23:45	1.16	27.4		-	-	*	
13C-PCB-15	2.33e+08	1.55 y	23:44	0.96	2060					105
PCB-19	2.01e+05	1.13 y	22:07	1.16	3.15	J	-	-	*	
PCB-30	*	* n	NotFnd	1.82	*		6610	1930	0.785	
PCB-18	1.85e+06	1.08 y	23:40	1.20	28.2		-	-	*	
PCB-17	9.49e+05	1.18 y	23:49	1.30	13.3		-	-	*	
PCB-27	2.01e+05	1.19 y	24:20	1.77	2.08	J	-	-	*	
PCB-24	1.94e+05	1.14 y	24:21	1.77	2.01	J	-	-	*	
PCB-16	7.15e+05	1.11 y	24:50	1.48	8.79		-	-	*	
PCB-32	7.27e+05	1.14 y	24:51	1.48	8.94		-	-	*	
13C-PCB-19	1.08e+08	1.07 y	22:05	0.45	2050					104
13C-PCB-9	2.31e+08	1.58 y	19:52	-	26.7					
PCB-34	*	* n	NotFnd	1.16	*		2710	1890	0.620	
PCB-23	*	* n	NotFnd	1.33	*		2710	1890	0.542	
PCB-29	*	* n	NotFnd	1.33	*		2710	1890	0.543	
PCB-26	4.20e+06	1.05 y	26:07	1.27	39.8		-	-	*	
PCB-25	1.99e+06	1.03 y	26:17	1.22	19.6		-	-	*	
PCB-31	6.45e+06	1.03 y	26:37	1.20	64.7		-	-	*	
PCB-28	7.81e+06	1.06 y	26:42	1.55	60.6		-	-	*	
PCB-20	3.50e+06	1.05 y	27:18	1.23	34.3		-	-	*	Co-elute PCB 21/33
PCB-21	3.50e+06	1.05 y	27:18	1.23	34.3		-	-	*	Co-elute PCB 20/33
PCB-33	3.50e+06	1.05 y	27:18	1.23	34.3		-	-	*	Co-elute PCB 20/21
PCB-22	2.17e+06	1.05 y	27:43	1.37	19.1		-	-	*	
PCB-36	*	* n	NotFnd	1.27	*		2710	1890	0.569	
PCB-39	*	* n	NotFnd	1.24	*		2710	1890	0.583	
PCB-38	*	* n	NotFnd	1.27	*		2710	1890	0.567	
PCB-35	*	* n	NotFnd	1.12	*		2710	1890	0.646	
PCB-37	2.28e+06	1.09 y	30:30	1.17	23.5		-	-	*	
13C-PCB-37	1.64e+08	1.07 y	30:28	1.46	1970					100

PCB-54	*	*	n	NotFnd	1.26	*		1440	1610	0.377	
PCB-50	*	*	n	NotFnd	0.99	*		1440	1610	0.481	
PCB-53	5.19e+05	0.78	y	27:21	0.98	8.03		-	-	*	
PCB-51	2.60e+05	0.81	y	27:40	1.01	3.88	J	-	-	*	
PCB-45	3.44e+05	0.70	y	28:04	0.83	6.25		-	-	*	
PCB-46	1.38e+05	0.77	y	28:33	0.81	2.58	J	-	-	*	
PCB-52	1.14e+07	0.79	y	28:59	1.05	164		-	-	*	Co-elute PCB 69
PCB-69	1.14e+07	0.79	y	28:59	1.05	164		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.20	*		1440	1610	0.395	
PCB-43	5.50e+06	0.80	y	29:16	0.91	91.7		-	-	*	Co-elute PCB 49
PCB-49	5.50e+06	0.80	y	29:16	0.91	91.7		-	-	*	Co-elute PCB 43
PCB-47	2.20e+06	0.78	y	29:29	0.92	36.3		-	-	*	
PCB-48	8.26e+05	0.83	y	29:35	1.19	10.5		-	-	*	Co-elute PCB 75
PCB-75	8.26e+05	0.83	y	29:35	1.19	10.5		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.20	*		1440	1610	0.396	
PCB-62	*	*	n	NotFnd	1.16	*		1440	1610	0.411	
PCB-44	4.11e+06	0.78	y	30:18	0.78	80.1		-	-	*	
PCB-42	1.50e+06	0.78	y	30:32	1.01	22.6		-	-	*	Co-elute PCB 59
PCB-59	1.50e+06	0.78	y	30:32	1.01	22.6		-	-	*	Co-elute PCB 42
PCB-72	3.81e+06	0.78	y	31:10	1.14	50.5		-	-	*	Co-elute PCB 41/71/64
PCB-41	3.81e+06	0.78	y	31:10	1.14	50.5		-	-	*	Co-elute PCB 72/71/64
PCB-71	3.81e+06	0.78	y	31:10	1.14	50.5		-	-	*	Co-elute PCB 72/41/64
PCB-64	3.81e+06	0.78	y	31:10	1.14	50.5		-	-	*	Co-elute PCB 72/41/71
PCB-68	2.81e+05	0.69	y	31:27	1.33	3.22	J	-	-	*	
PCB-40	3.81e+05	0.80	y	31:38	0.71	8.16		-	-	*	
PCB-57	1.55e+05	0.83	y	31:57	1.21	1.94	J	-	-	*	
PCB-67	4.31e+05	0.70	y	32:10	1.19	5.51		-	-	*	
PCB-58	6.81e+04	0.84	y	32:15	1.22	0.846	J	-	-	*	
PCB-63	3.39e+05	0.81	y	32:23	1.22	4.22		-	-	*	
PCB-74	3.87e+06	0.79	y	32:40	1.22	48.4		-	-	*	
PCB-61	1.04e+07	0.79	y	32:51	1.10	143		-	-	*	Co-elute PCB 70
PCB-70	1.04e+07	0.79	y	32:51	1.10	143		-	-	*	Co-elute PCB 61
PCB-76	8.75e+06	0.80	y	33:03	1.25	106		-	-	*	Co-elute PCB 66
PCB-66	8.75e+06	0.80	y	33:03	1.25	106		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.40	*		1440	1610	0.341	
PCB-55	3.45e+05	0.85	y	33:32	1.22	4.28		-	-	*	
13C-PCB-54	1.30e+08	0.83	y	25:38	1.21	1880					95.6
PCB-104	*	*	n	NotFnd	1.12	*		800	864	0.379	
PCB-96	8.27e+04	1.44	y	31:27	1.06	1.56	J	-	-	*	
PCB-103	1.48e+05	1.37	y	31:56	0.86	3.43	J	-	-	*	
PCB-100	8.04e+04	1.48	y	32:12	0.86	1.87	J	-	-	*	
PCB-94	6.49e+04	1.41	y	32:36	0.72	1.80	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.78	*		800	864	0.542	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.78	*		800	864	0.542	Co-elute PCB 98
PCB-95	1.06e+07	1.55	y	33:06	0.73	290		-	-	*	
PCB-93	*	*	n	NotFnd	0.72	*		800	864	0.585	
PCB-88	1.81e+06	1.56	y	33:29	0.84	43.1		-	-	*	Co-elute PCB 91
PCB-91	1.81e+06	1.56	y	33:29	0.84	43.1		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.95	*		800	864	0.447	
13C-PCB-104	9.86e+07	1.58	y	30:07	1.00	1730					87.7
13C-PCB-28	1.97e+08	1.07	y	26:41	1.75	1980					101
13C-PCB-52	1.12e+08	0.81	y	28:57	-	27.6					

PCB-56	4.42e+06	0.78	y	33:59	1.14	56.4			-	-	*	Co-elute PCB 60
PCB-60	4.42e+06	0.78	y	33:59	1.14	56.4			-	-	*	Co-elute PCB 56
PCB-79	4.02e+05	0.83	y	35:00	1.24	4.71			-	-	*	
PCB-78	1.24e+05	0.70	y	35:35	1.20	1.51		J	-	-	*	
PCB-81	6.45e+05	0.74	y	36:11	1.21	7.88			-	-	*	
13C-PCB-81	1.33e+08	0.80	y	36:08	1.53	2020						102
PCB-77	1.38e+06	0.82	y	36:42	1.04	18.8			-	-	*	
13C-PCB-77	1.38e+08	0.80	y	36:42	1.54	2080						106
PCB-155	*	*	n	NotFnd	1.05	*			960	512	0.266	
PCB-150	*	*	n	NotFnd	0.95	*			960	512	0.293	
PCB-152	*	*	n	NotFnd	0.93	*			960	512	0.302	
PCB-145	*	*	n	NotFnd	0.93	*			960	512	0.300	
PCB-136	2.47e+06	1.24	y	36:36	0.84	54.3			-	-	*	
PCB-148	*	*	n	NotFnd	0.75	*			960	512	0.375	
PCB-154	2.65e+05	1.09	y	37:09	0.77	6.29			-	-	*	
13C-PCB-155	1.07e+08	1.29	y	34:13	1.35	1830						92.9
13C-PCB-111	9.38e+07	1.60	y	36:17	1.21	1800						91.3
13C-PCB-101	8.50e+07	1.59	y	34:40	-	26.1						
PCB-84	6.19e+06	1.55	y	34:20	0.85	124			-	-	*	Co-elute PCB 92
PCB-92	6.19e+06	1.55	y	34:20	0.85	124			-	-	*	Co-elute PCB 84
PCB-89	1.30e+05	1.56	y	34:30	0.79	2.79		J	-	-	*	
PCB-90	1.65e+07	1.57	y	34:41	0.92	306			-	-	*	Co-elute PCB 101
PCB-101	1.65e+07	1.57	y	34:41	0.92	306			-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*			2290	1840	0.717	
PCB-99	8.01e+06	1.54	y	35:00	0.96	142			-	-	*	
PCB-119	5.90e+05	1.52	y	35:25	1.17	8.52			-	-	*	
PCB-83	8.37e+05	1.60	y	35:35	0.92	15.4			-	-	*	Co-elute PCB 112
PCB-112	8.37e+05	1.60	y	35:35	0.92	15.4			-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.09	*			2290	1840	0.720	
PCB-97	4.42e+06	1.64	y	35:54	0.75	100.0			-	-	*	
PCB-86	*	*	n	NotFnd	0.83	*			2290	1840	0.944	
PCB-125	7.34e+06	1.64	y	36:11	1.00	124			-	-	*	Co-elute PCB 87/117
PCB-87	7.34e+06	1.64	y	36:11	1.00	124			-	-	*	Co-elute PCB 125/117
PCB-117	7.34e+06	1.64	y	36:11	1.00	124			-	-	*	Co-elute PCB 125/87
PCB-111	4.40e+05	1.61	y	36:18	1.12	6.63			-	-	*	Co-elute PCB 115
PCB-115	4.40e+05	1.61	y	36:18	1.12	6.63			-	-	*	Co-elute PCB 111
PCB-85	2.84e+06	1.64	y	36:26	0.98	49.2			-	-	*	Co-elute PCB 116
PCB-116	2.84e+06	1.64	y	36:26	0.98	49.2			-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.21	*			2290	1840	0.647	
PCB-110	2.55e+07	1.59	y	36:47	1.12	385			-	-	*	
PCB-82	1.40e+06	1.65	y	37:23	0.65	36.3			-	-	*	
PCB-124	1.16e+06	1.55	y	38:02	1.16	16.9			-	-	*	
PCB-108	1.85e+06	1.61	y	38:12	1.12	28.1			-	-	*	Co-elute PCB 107
PCB-107	1.85e+06	1.61	y	38:12	1.12	28.1			-	-	*	Co-elute PCB 108
PCB-123	4.54e+05	1.44	y	38:20	0.97	8.34			-	-	*	
13C-PCB-123	1.11e+08	1.60	y	38:19	1.48	1330						67.6
PCB-118	2.38e+07	1.58	y	38:30	1.06	371			-	-	*	Co-elute PCB 106
PCB-106	2.38e+07	1.58	y	38:30	1.06	371			-	-	*	Co-elute PCB 118
13C-PCB-118	1.19e+08	1.61	y	38:30	1.54	1370						69.7
PCB-114	5.84e+05	1.45	y	39:08	1.07	9.23			-	-	*	
13C-PCB-114	1.17e+08	1.60	y	39:06	1.46	1420						71.9
PCB-122	3.85e+05	1.49	y	39:15	1.09	5.98			-	-	*	
PCB-105	1.01e+07	1.53	y	39:57	1.14	147			-	-	*	
13C-PCB-105	1.18e+08	1.60	y	39:56	1.40	1500						76.1

PCB-127	*	*	n	NotFnd	1.00	*		2400	2180	0.871	
PCB-126	2.41e+05	1.53	y	42:04	1.10	3.78	J	-	-	*	
13C-PCB-126	1.14e+08	1.58	y	42:02	1.32	1530					77.8
PCB-151	3.15e+06	1.29	y	37:47	1.10	54.1		-	-	*	
PCB-135	2.13e+06	1.32	y	37:59	1.01	39.7		-	-	*	
PCB-144	7.28e+05	1.36	y	38:05	1.25	11.0		-	-	*	
PCB-147	4.38e+05	1.35	y	38:12	1.15	7.19		-	-	*	
PCB-139	1.35e+07	1.24	y	38:27	1.18	216		-	-	*	Co-elute PCB 149
PCB-149	1.35e+07	1.24	y	38:27	1.18	216		-	-	*	Co-elute PCB 139
PCB-140	1.32e+05	1.07	y	38:38	1.16	2.15	J	-	-	*	
PCB-143	9.69e+05	1.24	y	39:03	0.96	19.1		-	-	*	Co-elute PCB 134
PCB-134	9.69e+05	1.24	y	39:03	0.96	19.1		-	-	*	Co-elute PCB 143
PCB-131	5.38e+05	1.20	y	39:19	0.94	10.8		-	-	*	Co-elute PCB 133
PCB-133	5.38e+05	1.20	y	39:19	0.94	10.8		-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.99	*		1960	1650	0.726	
PCB-165	2.78e+06	1.26	y	39:41	1.26	41.8		-	-	*	Co-elute PCB 146
PCB-146	2.78e+06	1.26	y	39:41	1.26	41.8		-	-	*	Co-elute PCB 165
PCB-161	5.36e+06	1.22	y	39:57	1.15	88.0		-	-	*	Co-elute PCB 132
PCB-132	5.36e+06	1.22	y	39:57	1.15	88.0		-	-	*	Co-elute PCB 161
PCB-153	1.78e+07	1.28	y	40:04	1.27	263		-	-	*	
PCB-168	*	*	n	NotFnd	1.35	*		1960	1650	0.529	
PCB-141	3.06e+06	1.25	y	40:47	1.02	56.7		-	-	*	
PCB-137	1.08e+06	1.22	y	41:08	0.94	21.7		-	-	*	
PCB-130	1.45e+06	1.27	y	41:13	0.89	30.7		-	-	*	
PCB-138	2.42e+07	1.25	y	41:34	1.25	366		-	-	*	Co-elute PCB 163/164
PCB-163	2.42e+07	1.25	y	41:34	1.25	366		-	-	*	Co-elute PCB 138/164
PCB-164	2.42e+07	1.25	y	41:34	1.25	366		-	-	*	Co-elute PCB 138/163
PCB-158	3.11e+06	1.29	y	41:48	1.33	44.0		-	-	*	Co-elute PCB 160
PCB-160	3.11e+06	1.29	y	41:48	1.33	44.0		-	-	*	Co-elute PCB 158
PCB-129	9.20e+05	1.32	y	42:02	0.85	20.3		-	-	*	
PCB-166	1.55e+05	1.29	y	42:29	1.28	2.29	J	-	-	*	
PCB-159	2.31e+05	1.38	y	42:50	1.37	3.19	J	-	-	*	
PCB-128	4.25e+06	1.28	y	43:03	1.08	74.5		-	-	*	Co-elute PCB 162
PCB-162	4.25e+06	1.28	y	43:03	1.08	74.5		-	-	*	Co-elute PCB 128
PCB-167	1.27e+06	1.16	y	43:25	1.18	20.9		-	-	*	
13C-PCB-167	1.01e+08	1.31	y	43:23	1.13	1590					81.0
PCB-156	3.12e+06	1.26	y	44:39	1.24	49.6		-	-	*	
13C-PCB-156	9.94e+07	1.29	y	44:37	1.06	1660					84.3
PCB-157	8.86e+05	1.31	y	44:54	1.18	14.0		-	-	*	
13C-PCB-157	1.06e+08	1.29	y	44:52	1.07	1760					89.3
PCB-169	*	*	n	NotFnd	1.12	*		1960	1650	0.587	
13C-PCB-169	1.11e+08	1.28	y	46:44	1.00	1970					100

PCB-188	*	*	n	NotFnd	1.03	*		1180	688	0.416	
13C-PCB-188	9.10e+07	1.07	y	39:41	1.26	1280					65.0
PCB-184	*	*	n	NotFnd	1.18	*		1180	688	0.329	
PCB-179	1.43e+06	1.08	y	40:52	1.11	26.7		-	-	*	
PCB-176	4.58e+05	1.08	y	41:18	1.08	8.85		-	-	*	
PCB-186	*	*	n	NotFnd	1.08	*		1180	688	0.360	
PCB-178	5.08e+05	0.95	y	42:21	0.74	14.2		-	-	*	
PCB-175	1.26e+05	1.14	y	42:40	0.76	3.45	J	-	-	*	
PCB-187	3.20e+06	1.07	y	42:49	0.82	80.9		-	-	*	Co-elute PCB 182
PCB-182	3.20e+06	1.07	y	42:49	0.82	80.9		-	-	*	Co-elute PCB 187
PCB-183	1.67e+06	1.00	y	43:08	0.80	43.7		-	-	*	
PCB-185	2.54e+05	1.16	y	43:46	0.71	7.47		-	-	*	
PCB-174	2.37e+06	1.08	y	44:06	0.73	67.6		-	-	*	
PCB-181	*	*	n	NotFnd	0.66	*		1180	688	0.591	
PCB-177	1.46e+06	1.08	y	44:22	0.64	47.1		-	-	*	
PCB-171	8.21e+05	1.04	y	44:39	0.69	24.9		-	-	*	
PCB-173	6.91e+04	0.95	y	45:02	0.62	2.33	J	-	-	*	
PCB-172	4.75e+05	1.07	y	45:27	0.64	15.6		-	-	*	
PCB-192	*	*	n	NotFnd	0.84	*		1180	688	0.463	
PCB-180	5.87e+06	1.07	y	45:46	0.65	189		-	-	*	
PCB-193	4.58e+05	1.08	y	45:58	0.90	10.6		-	-	*	
PCB-191	1.62e+05	1.02	y	46:09	0.83	4.05		-	-	*	
PCB-170	2.95e+06	1.04	y	47:05	0.60	102		-	-	*	
PCB-190	8.35e+05	1.04	y	47:14	0.85	20.6		-	-	*	
PCB-189	2.14e+05	1.10	y	48:26	1.06	4.04		-	-	*	
13C-PCB-189	9.82e+07	1.07	y	48:26	0.96	1820					92.3
PCB-202	3.37e+05	0.89	y	44:49	1.03	8.09		-	-	*	
PCB-201	2.26e+05	0.84	y	45:15	1.09	5.12		-	-	*	
PCB-204	*	*	n	NotFnd	1.05	*		720	984	0.396	
PCB-197	7.08e+04	0.88	y	45:40	1.09	1.60	J	-	-	*	
PCB-200	2.02e+05	0.83	y	46:26	1.04	4.77		-	-	*	
PCB-198	8.64e+04	0.93	y	47:37	0.70	3.03	J	-	-	*	
PCB-199	1.31e+06	0.91	y	47:42	0.70	46.4		-	-	*	
PCB-203	1.58e+06	0.87	y	47:56	0.83	47.1		-	-	*	Co-elute PCB 196
PCB-196	1.58e+06	0.87	y	47:56	0.83	47.1		-	-	*	Co-elute PCB 203
13C-PCB-202	7.98e+07	0.92	y	44:47	0.89	1600					81.2
13C-PCB-178	5.93e+07	1.06	y	42:19	0.78	1350					68.4
13C-PCB-138	1.11e+08	1.28	y	46:44	-	40.0					
PCB-195	6.14e+05	0.94	y	49:02	0.67	16.3		-	-	*	
PCB-194	1.76e+06	0.89	y	49:50	0.84	37.5		-	-	*	
PCB-205	1.21e+05	0.91	y	50:05	1.06	2.04	J	-	-	*	
13C-PCB-205	1.10e+08	0.90	y	50:05	1.30	1940					98.6
PCB-208	2.25e+05	1.40	y	49:10	1.09	4.21		-	-	*	
13C-PCB-208	9.68e+07	0.81	y	49:09	1.05	2110					107
PCB-207	1.23e+05	1.42	y	49:27	1.22	2.35	J	-	-	*	
PCB-206	6.51e+05	1.32	y	51:18	1.08	16.5		-	-	*	
13C-PCB-206	7.17e+07	0.81	y	51:17	0.89	1840					93.3
PCB-209	4.01e+05	1.23	y	52:30	1.14	8.12		-	-	*	
13C-PCB-209	8.51e+07	1.20	y	52:29	1.10	1760					89.3
13C-PCB-194	8.63e+07	0.91	y	49:50	-	32.4					

Analyst: _____ Date: 7/25/19

File:24JUL19Z #1-783 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
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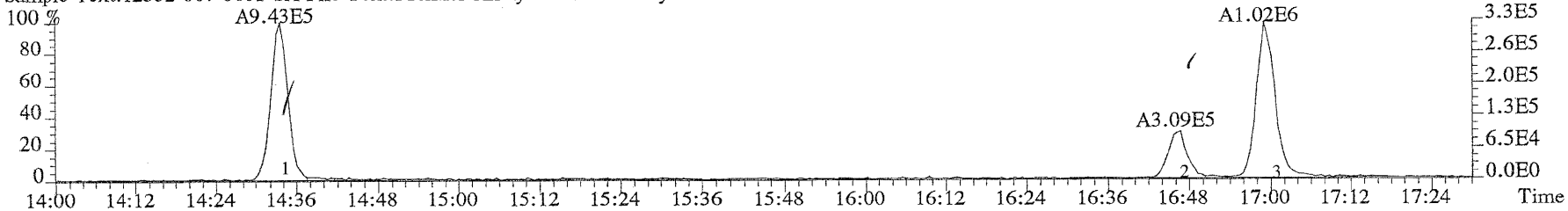

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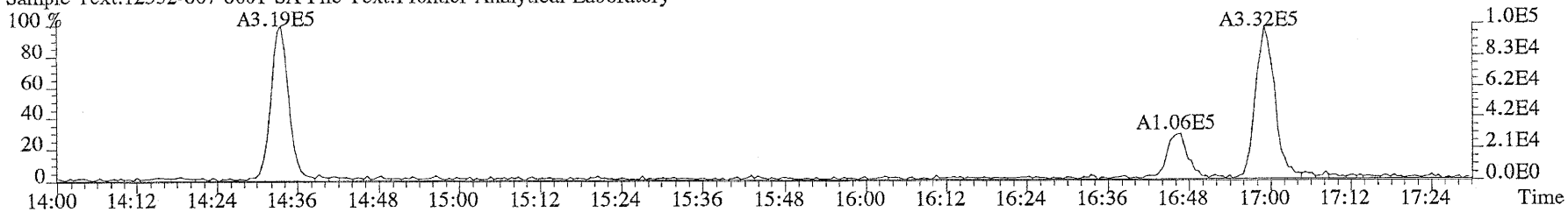

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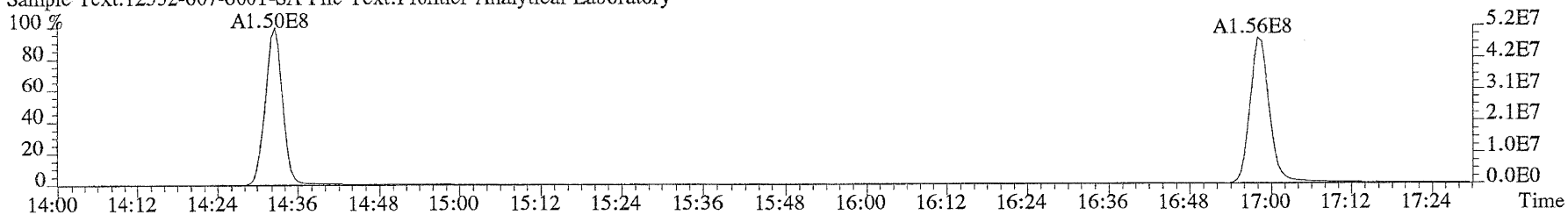

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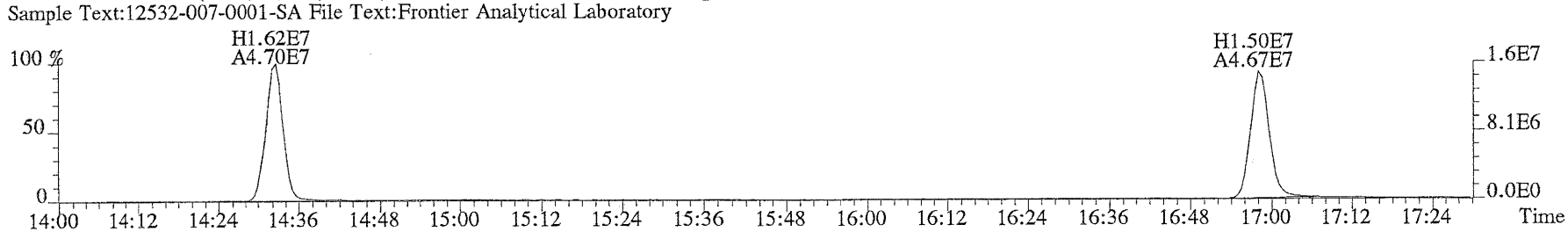
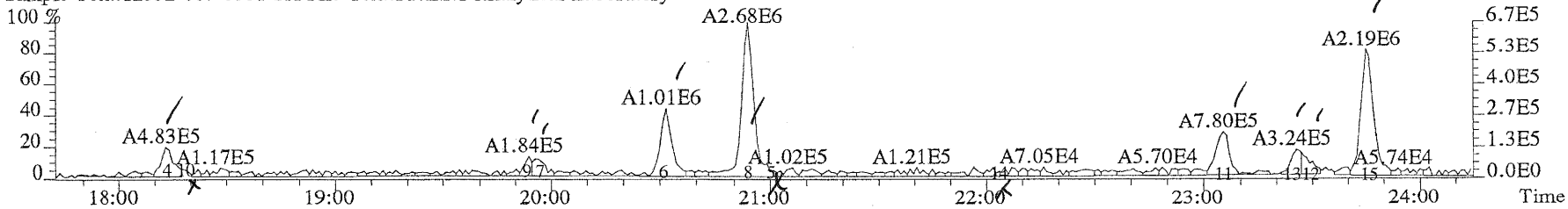
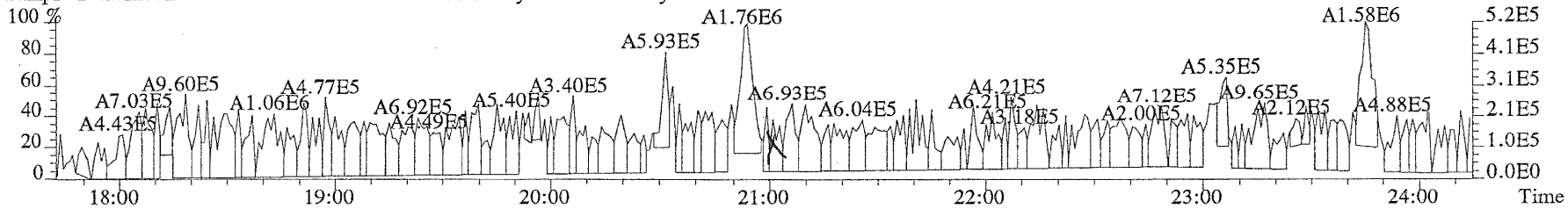
202.0766 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



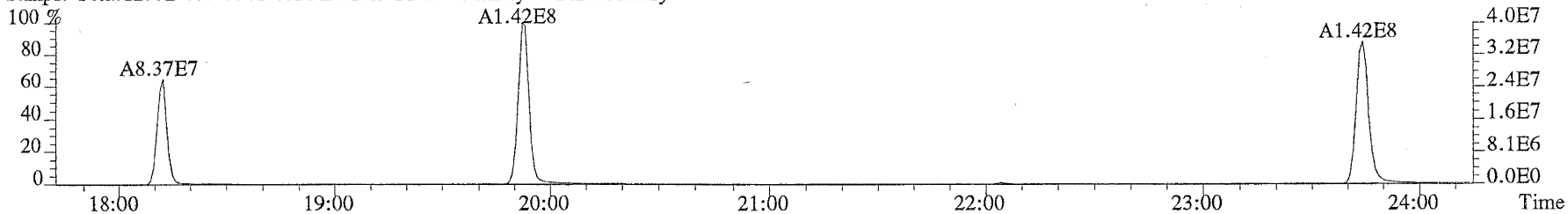
File:24JUL19Z #1-520 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



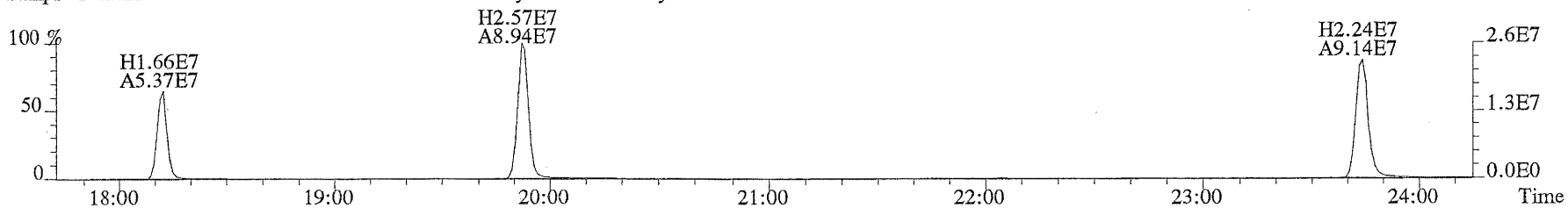
File:24JUL19Z #1-520 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



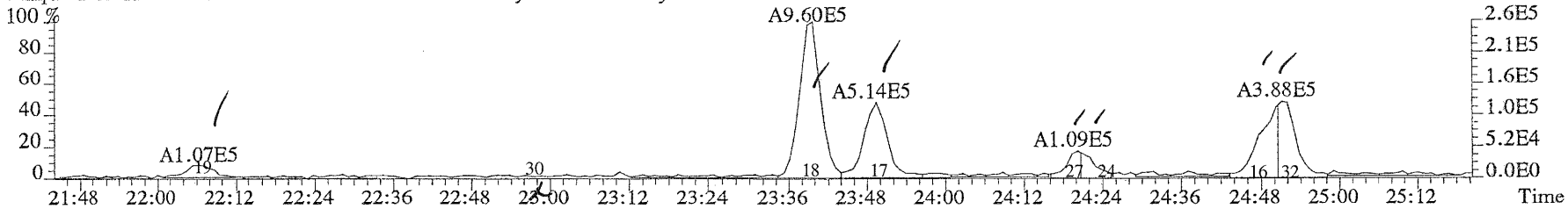
File:24JUL19Z #1-520 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



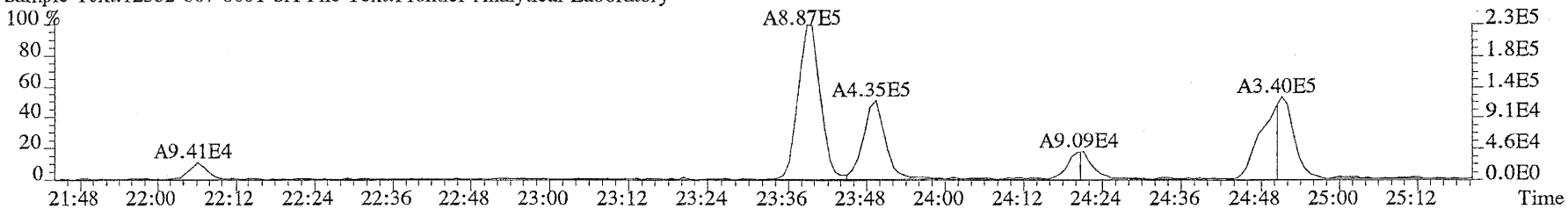
File:24JUL19Z #1-520 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



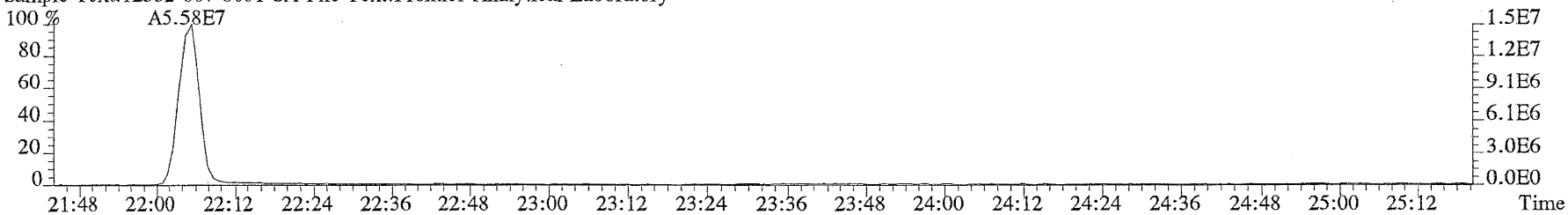
File:24JUL19Z #1-520 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



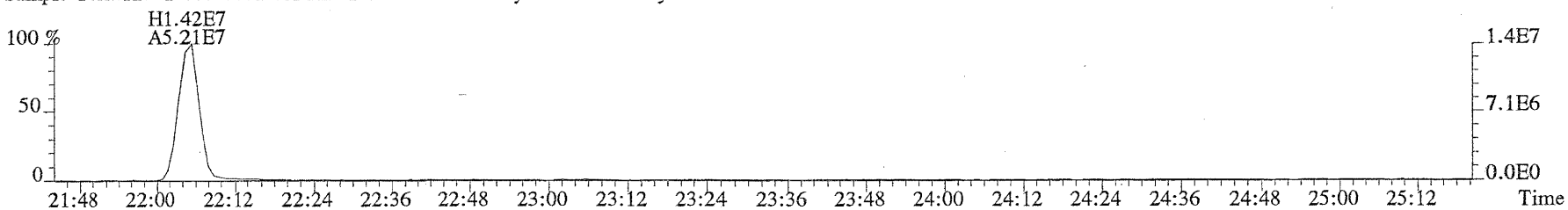
File:24JUL19Z #1-520 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



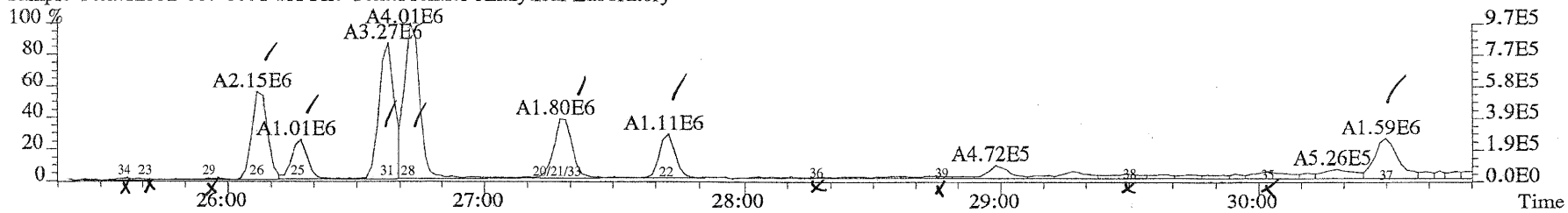
File:24JUL19Z #1-520 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



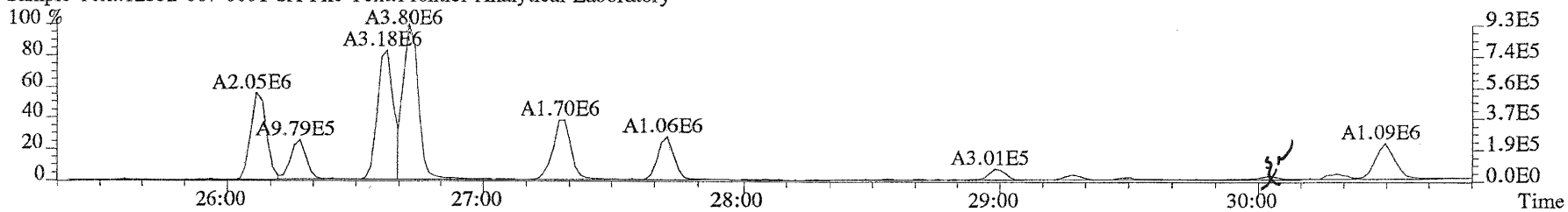
File:24JUL19Z #1-520 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



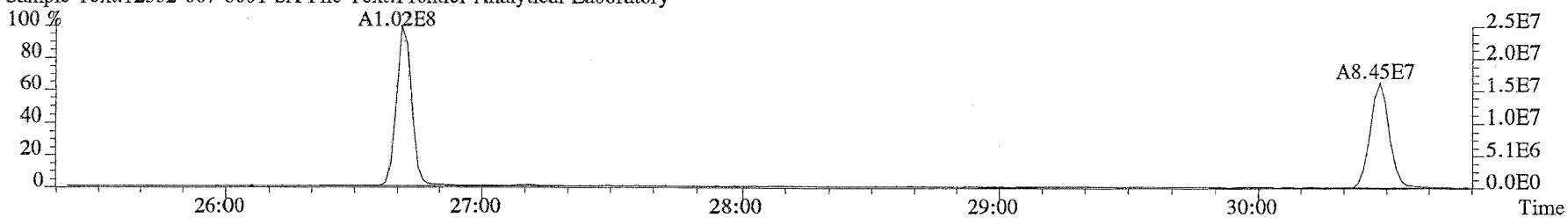
File:24JUL19Z #1-401 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



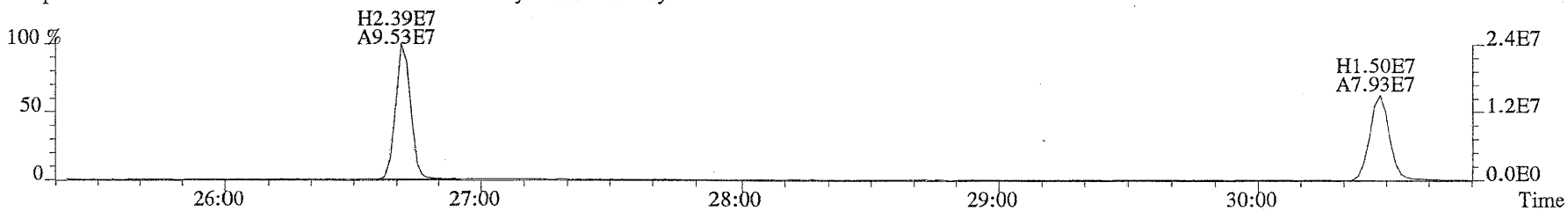
File:24JUL19Z #1-401 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



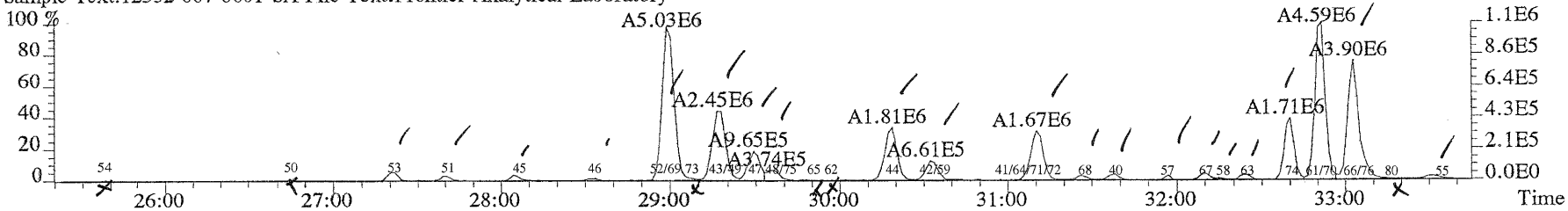
File:24JUL19Z #1-401 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



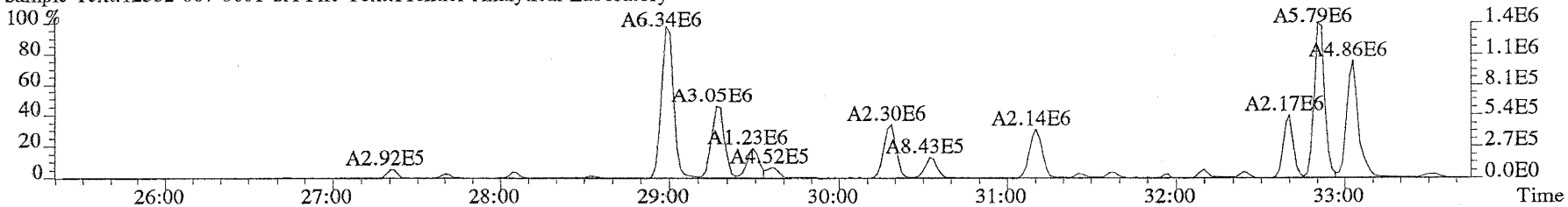
File:24JUL19Z #1-401 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



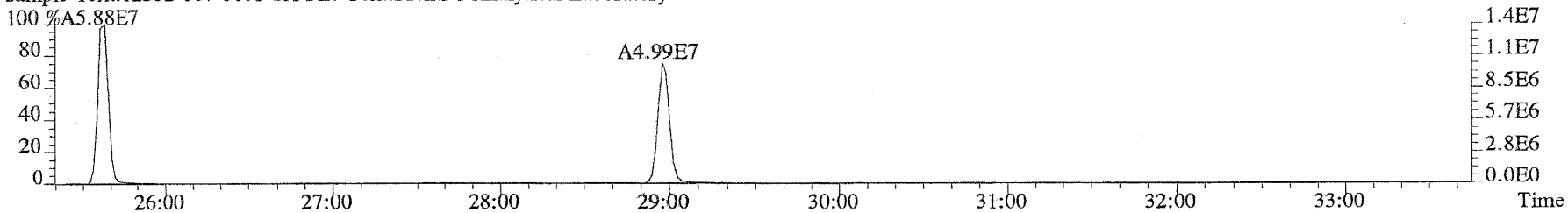
File:24JUL19Z #1-401 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



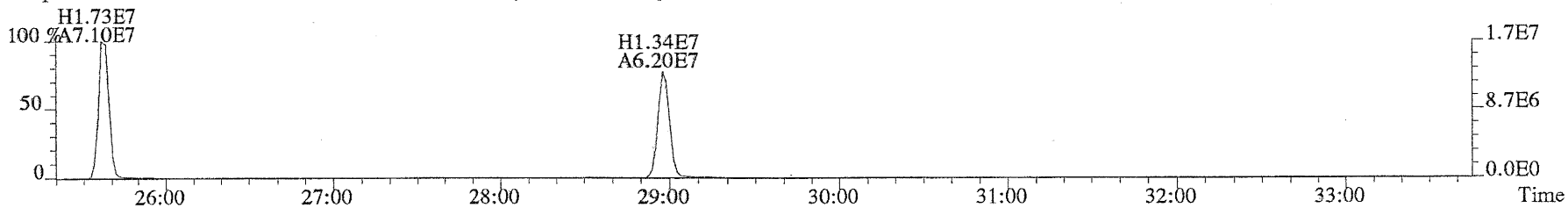
File:24JUL19Z #1-401 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



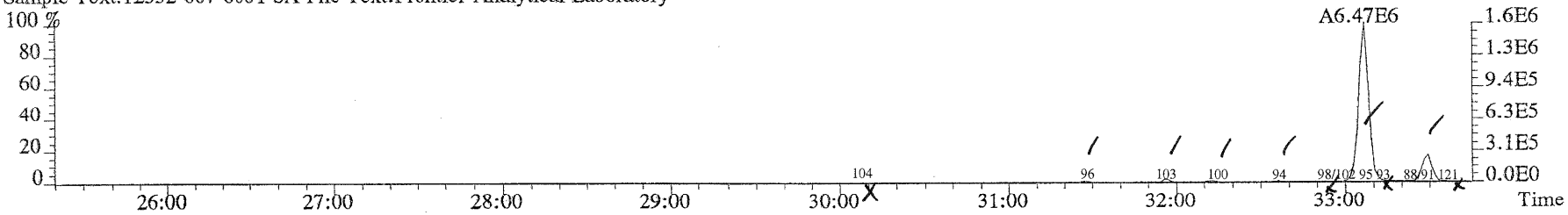
File:24JUL19Z #1-401 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



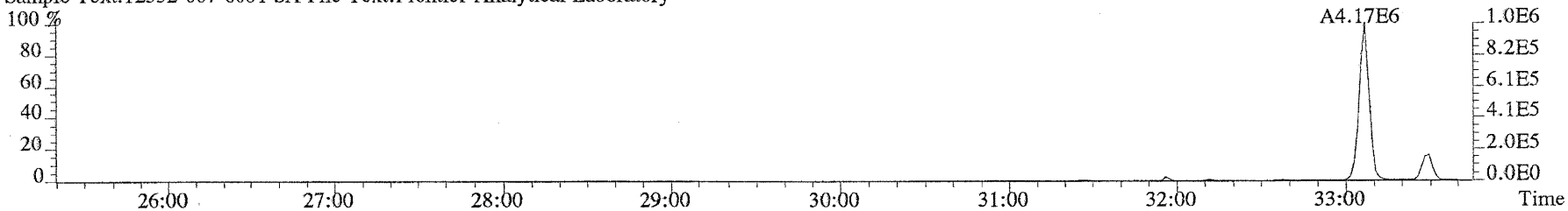
File:24JUL19Z #1-401 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



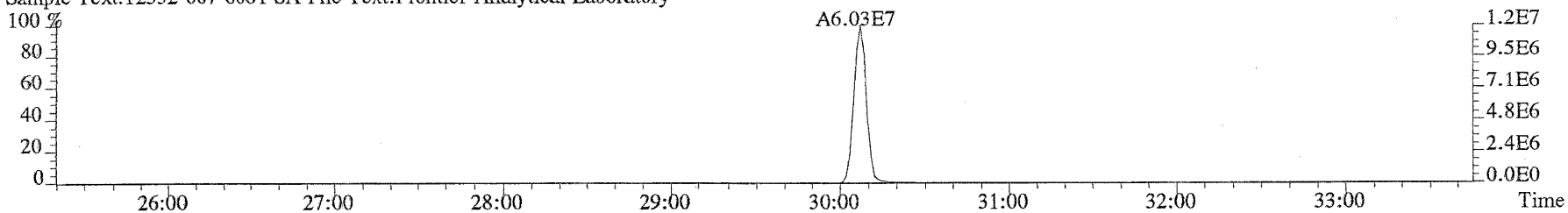
File:24JUL19Z #1-401 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



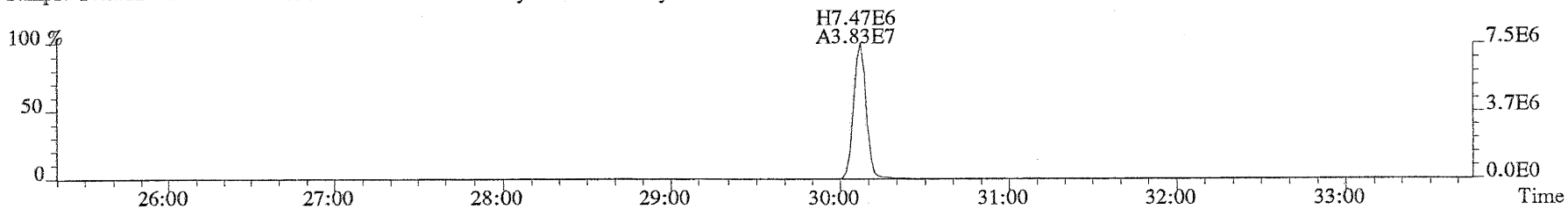
File:24JUL19Z #1-401 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



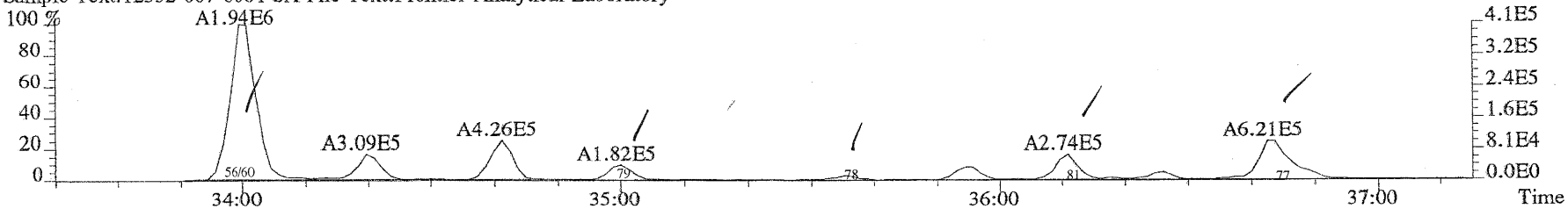
File:24JUL19Z #1-401 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



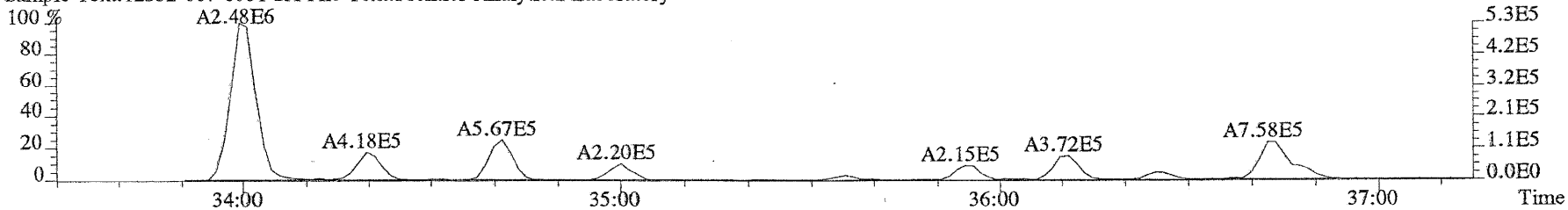
File:24JUL19Z #1-401 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



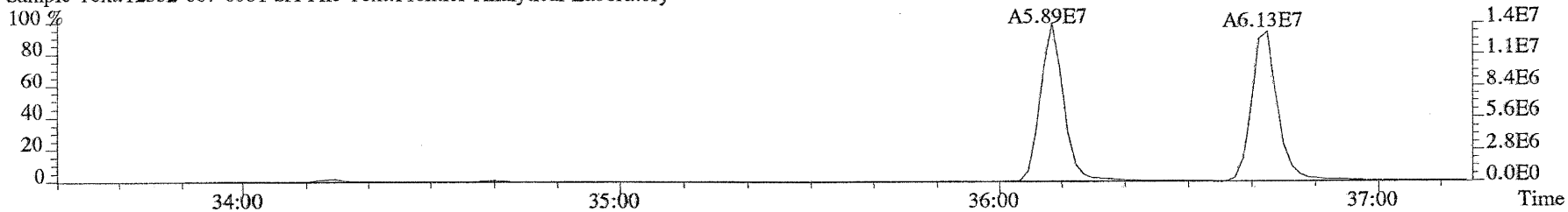
File:24JUL19Z #1-181 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



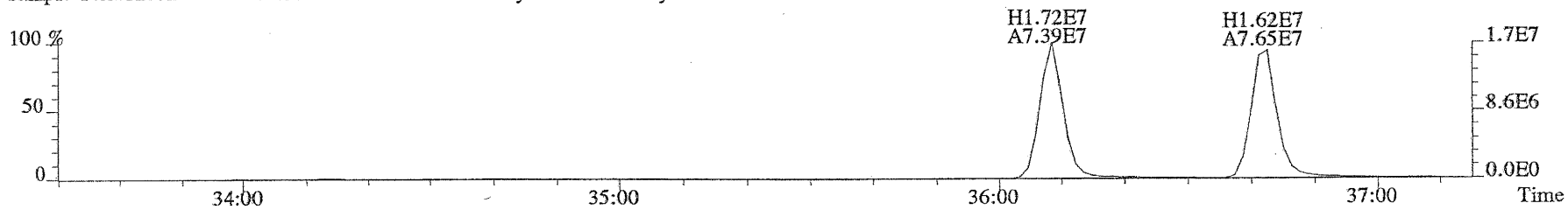
File:24JUL19Z #1-181 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



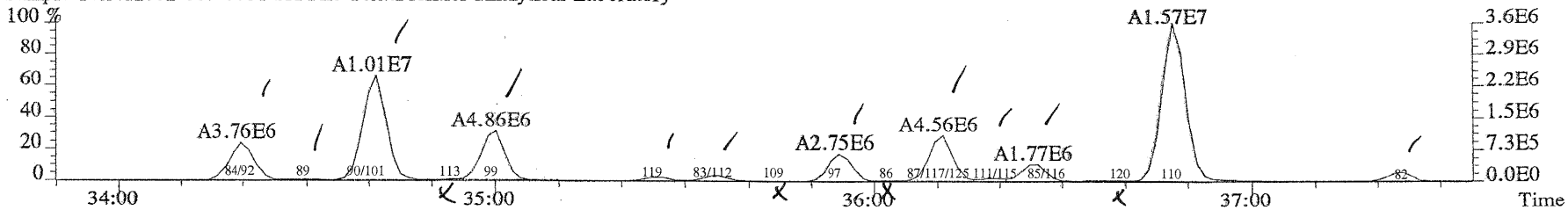
File:24JUL19Z #1-181 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



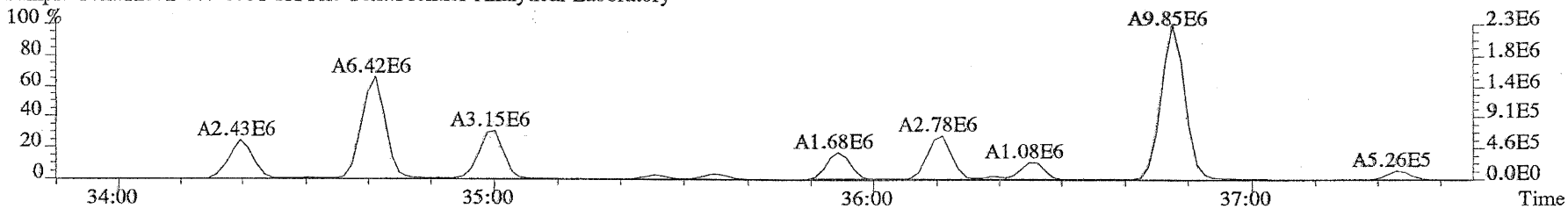
File:24JUL19Z #1-181 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



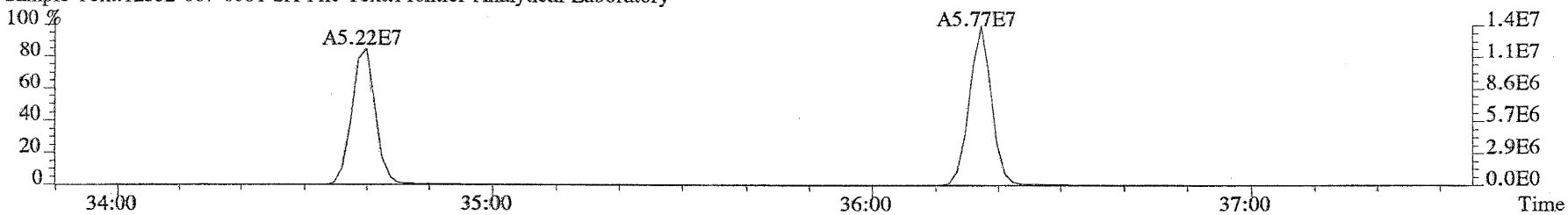
File:24JUL19Z #1-181 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



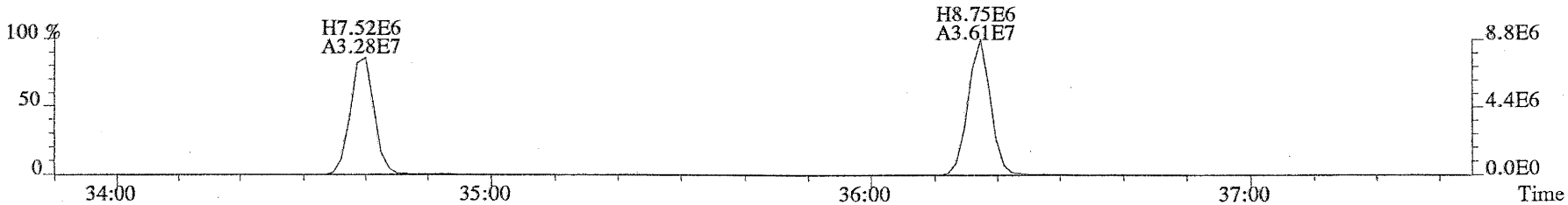
File:24JUL19Z #1-181 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



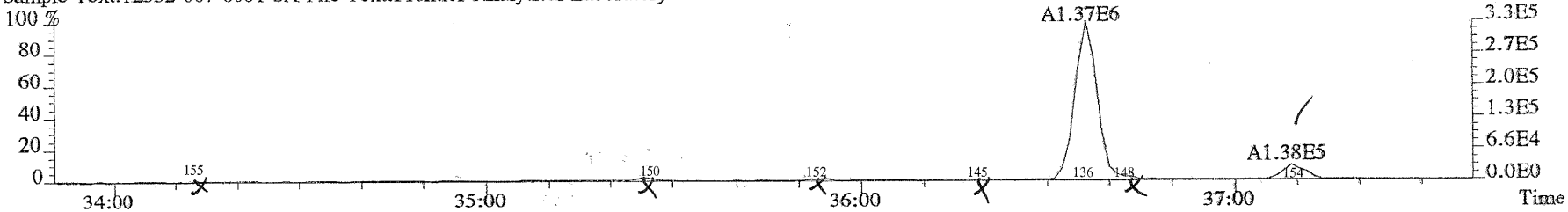
File:24JUL19Z #1-181 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



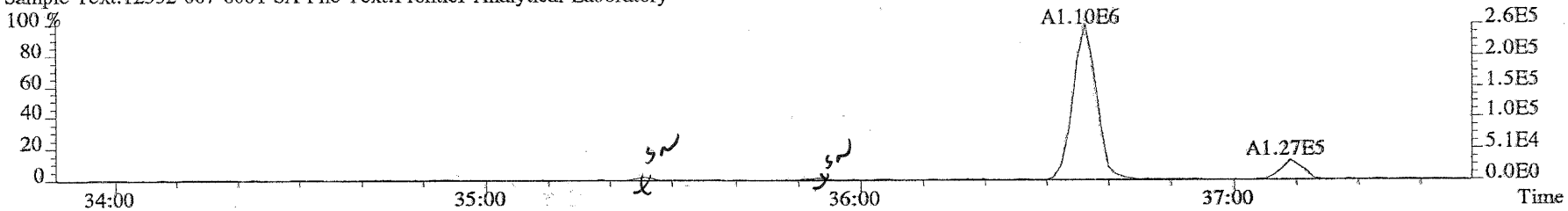
File:24JUL19Z #1-181 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



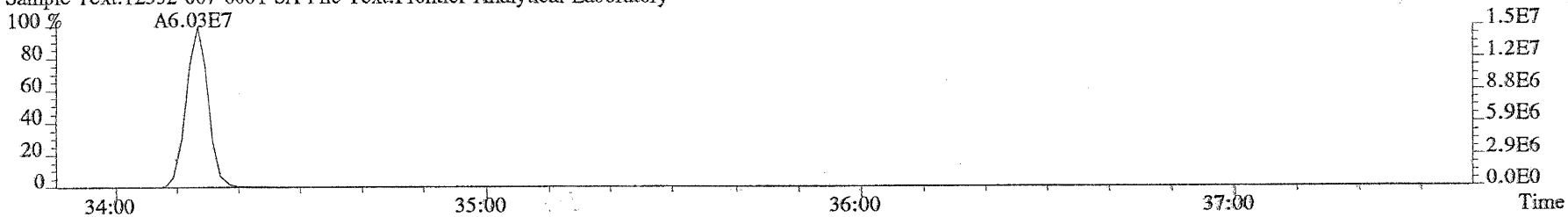
File:24JUL19Z #1-181 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



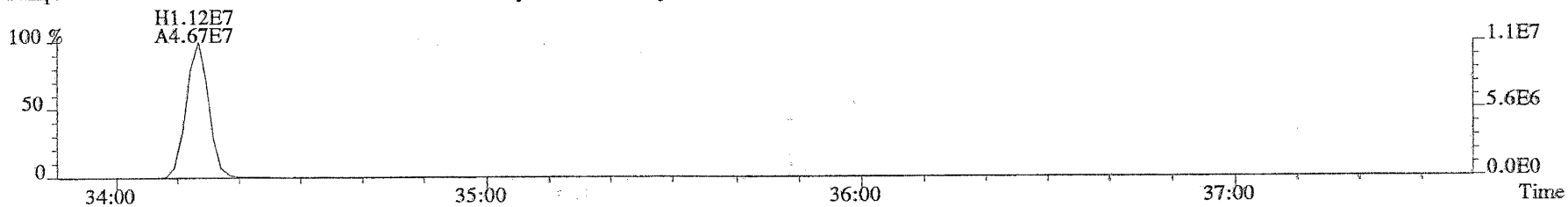
File:24JUL19Z #1-181 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



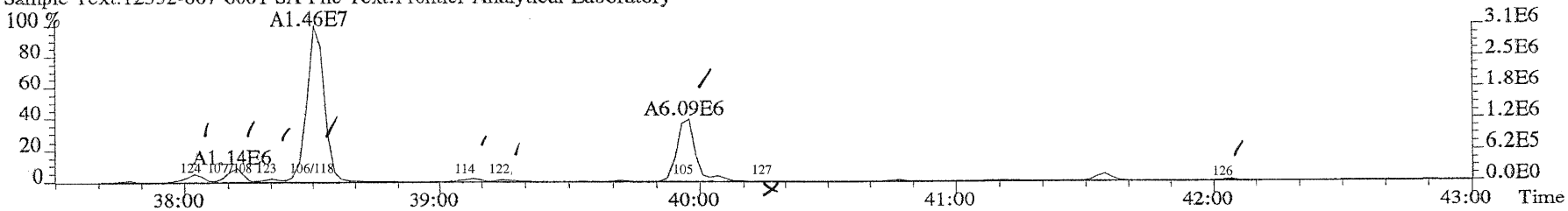
File:24JUL19Z #1-181 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



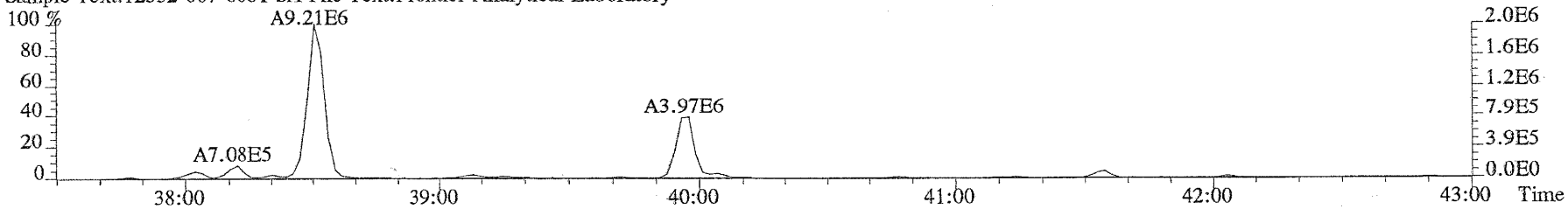
File:24JUL19Z #1-181 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



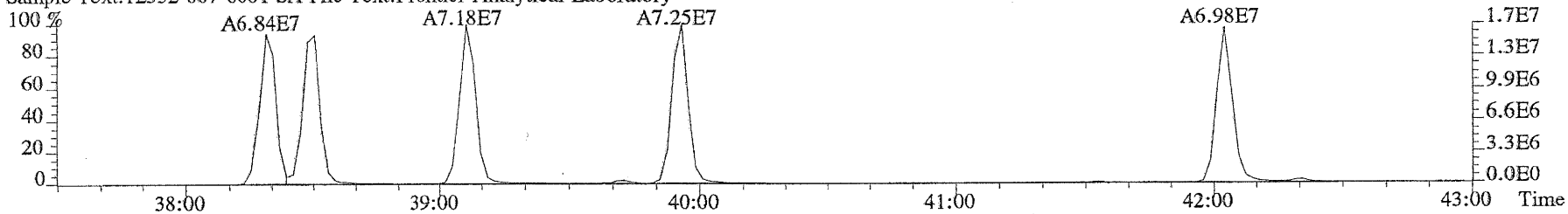
File:24JUL19Z #1-405 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



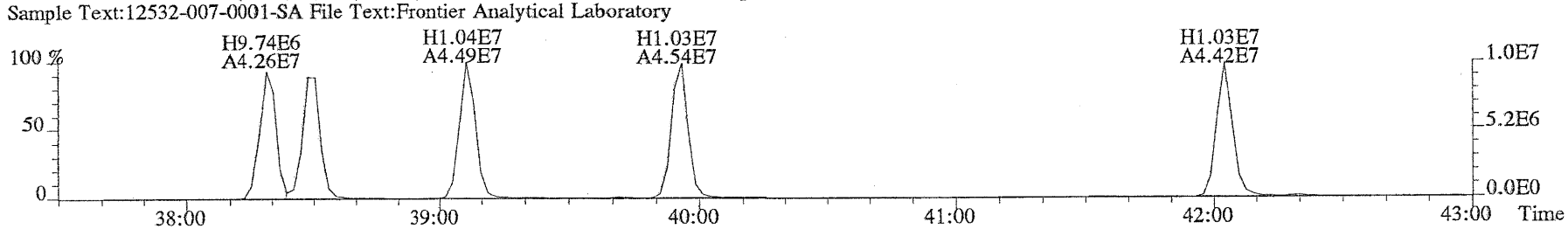
File:24JUL19Z #1-405 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



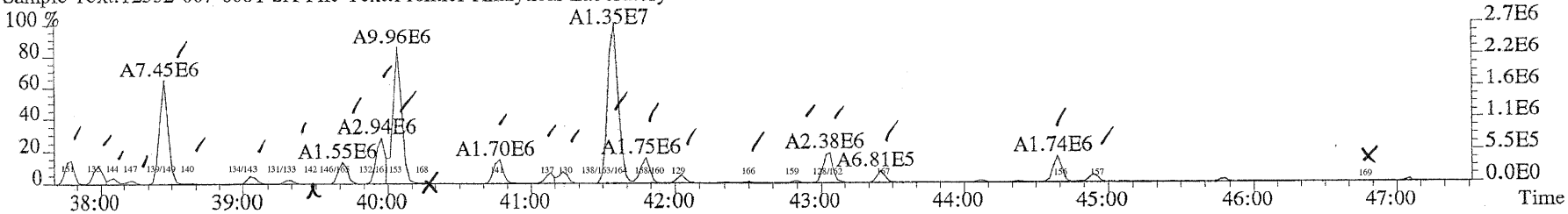
File:24JUL19Z #1-405 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



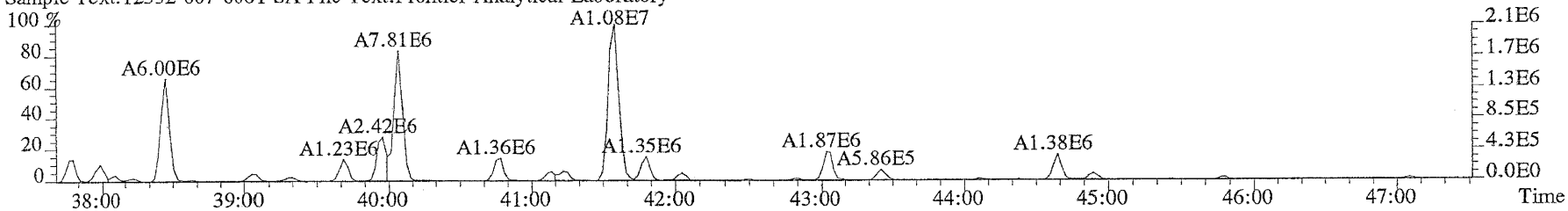
File:24JUL19Z #1-405 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



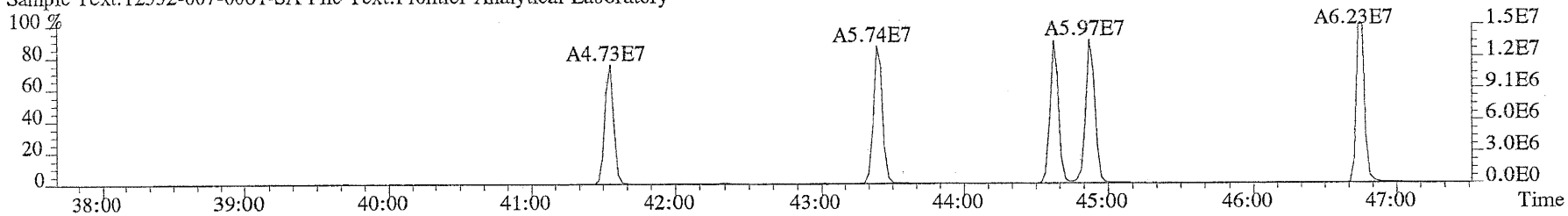
File:24JUL19Z #1-405 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



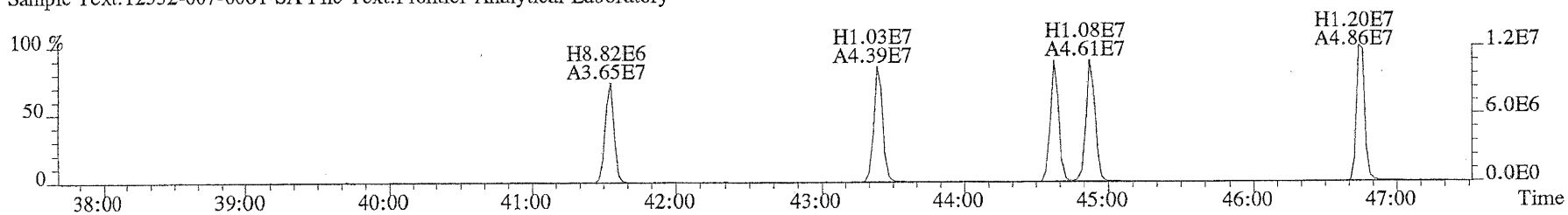
File:24JUL19Z #1-405 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



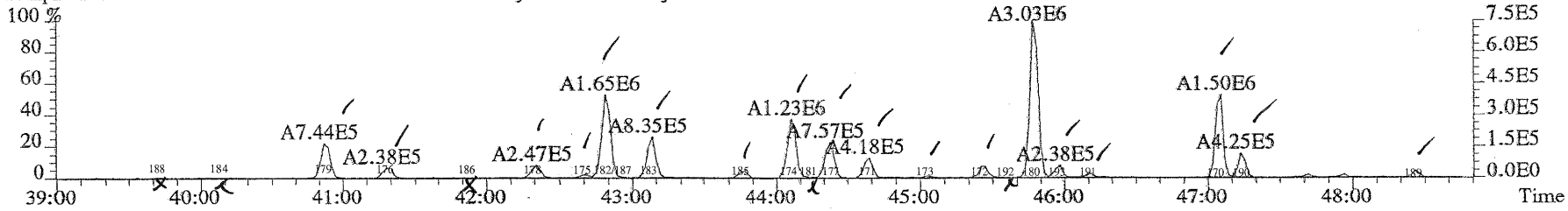
File:24JUL19Z #1-405 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



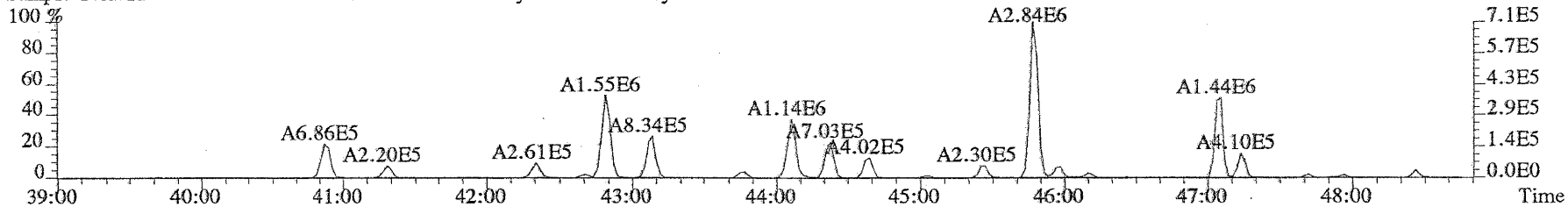
File:24JUL19Z #1-405 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



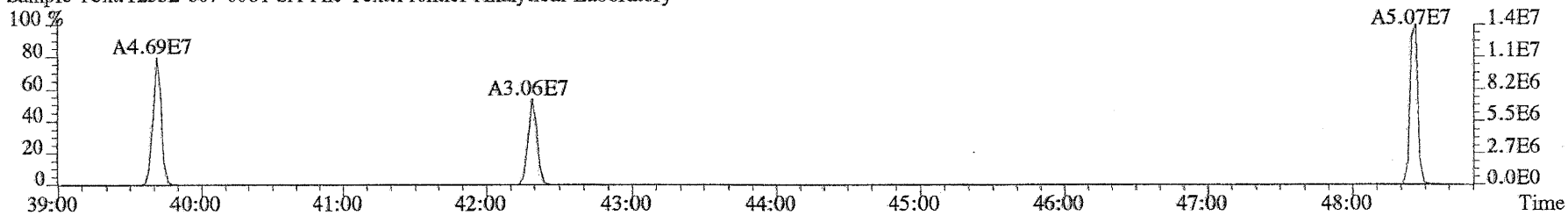
File:24JUL19Z #1-405 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



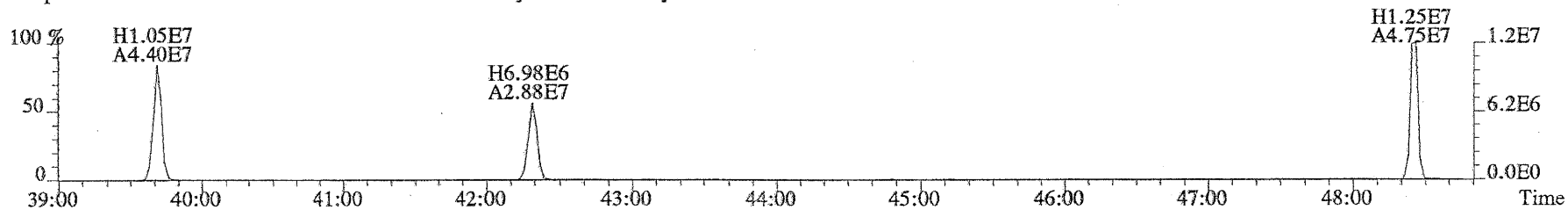
File:24JUL19Z #1-405 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



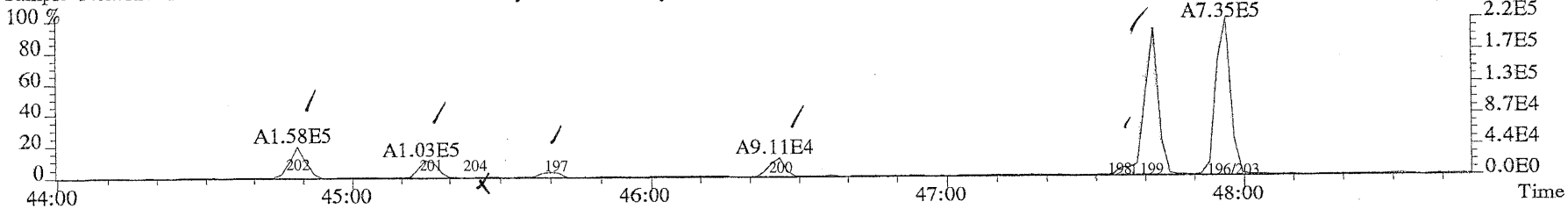
File:24JUL19Z #1-405 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



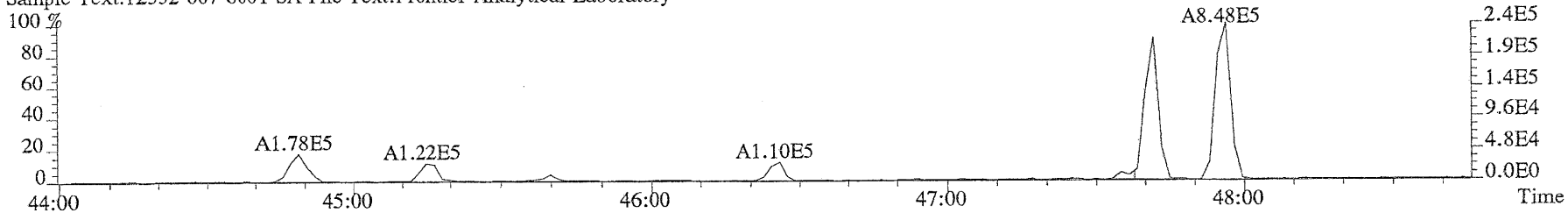
File:24JUL19Z #1-405 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



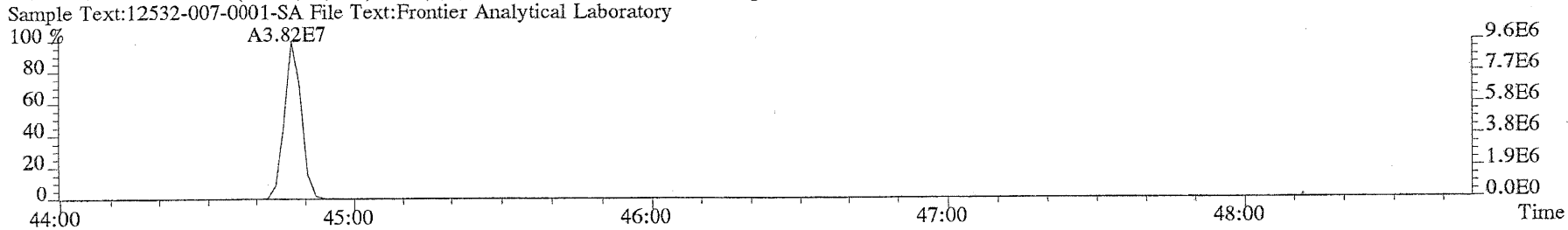
File:24JUL19Z #1-405 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



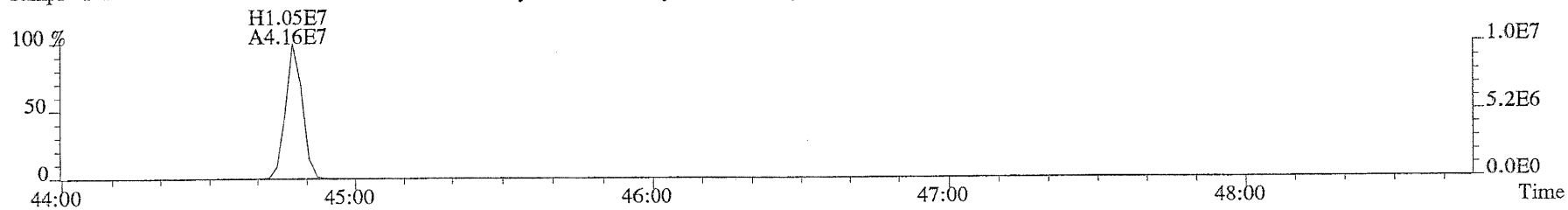
File:24JUL19Z #1-405 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



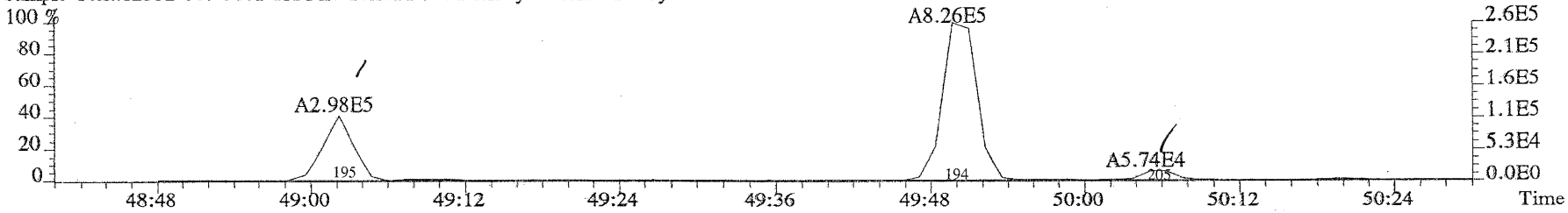
File:24JUL19Z #1-405 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



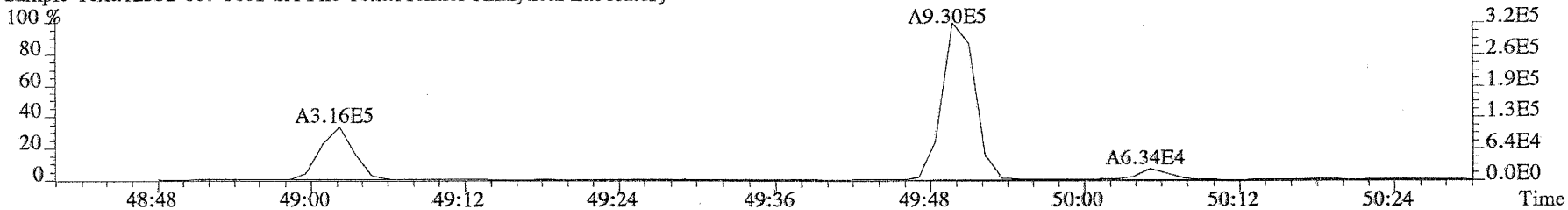
File:24JUL19Z #1-405 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



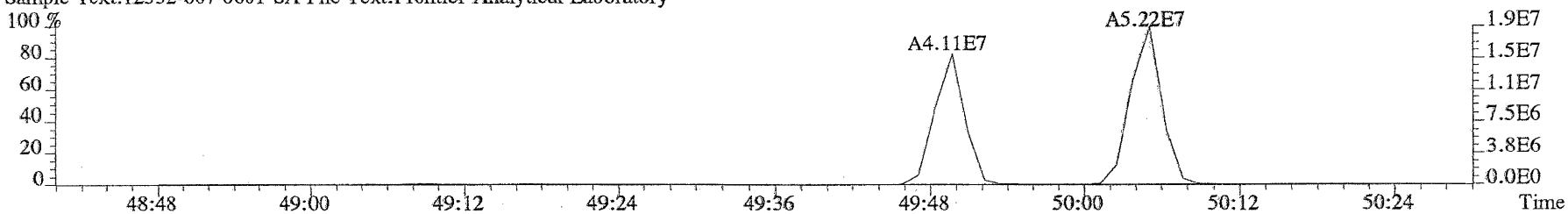
File:24JUL19Z #1-315 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



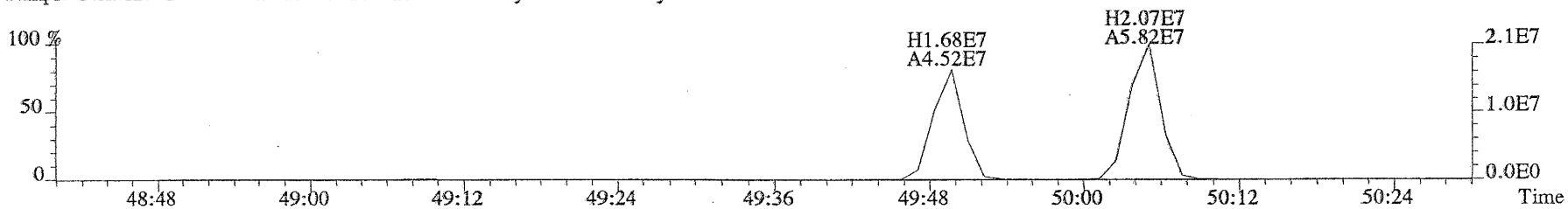
File:24JUL19Z #1-315 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



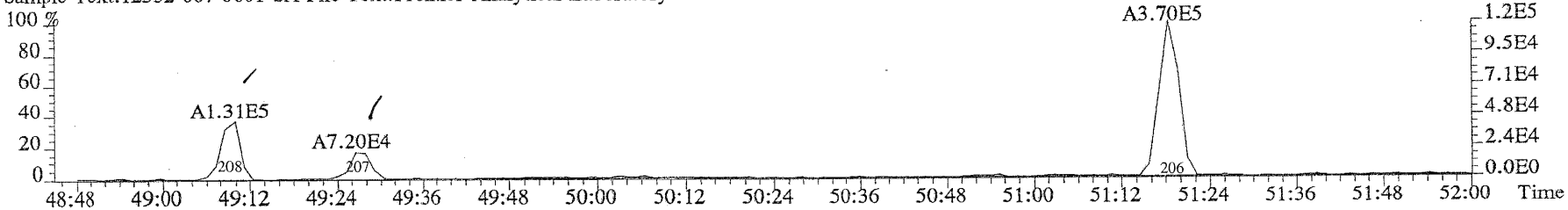
File:24JUL19Z #1-315 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



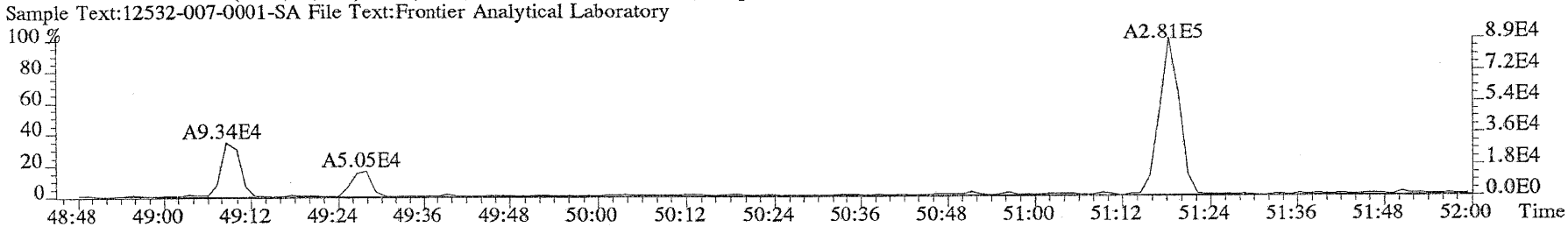
File:24JUL19Z #1-315 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



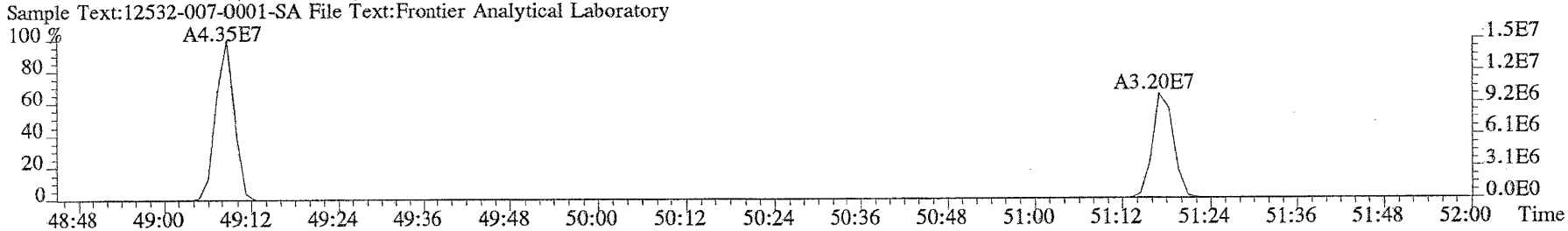
File:24JUL19Z #1-315 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



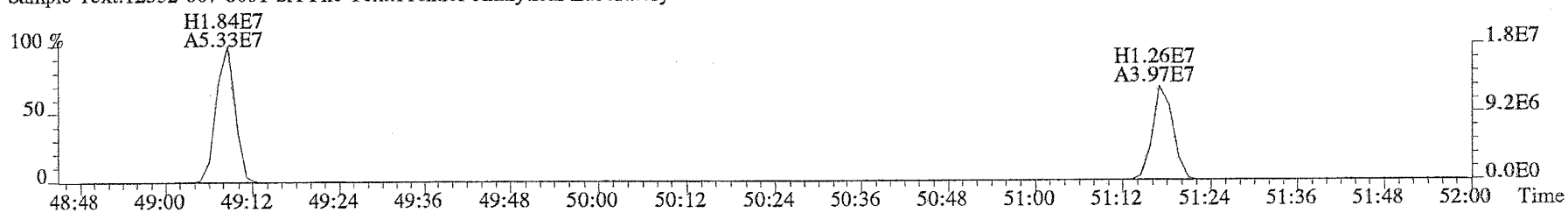
File:24JUL19Z #1-315 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



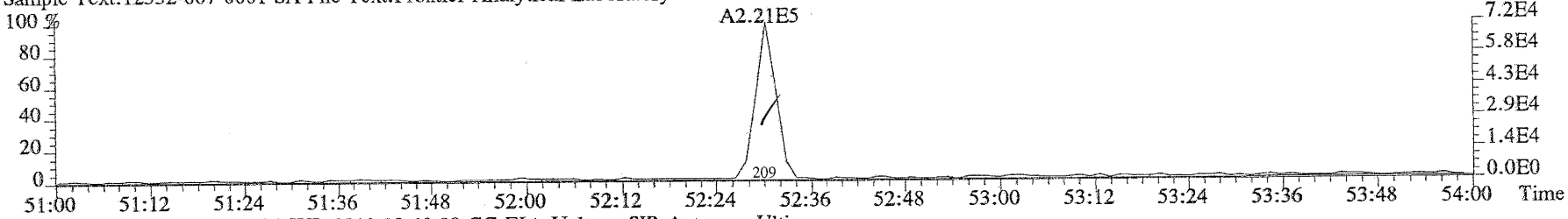
File:24JUL19Z #1-315 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



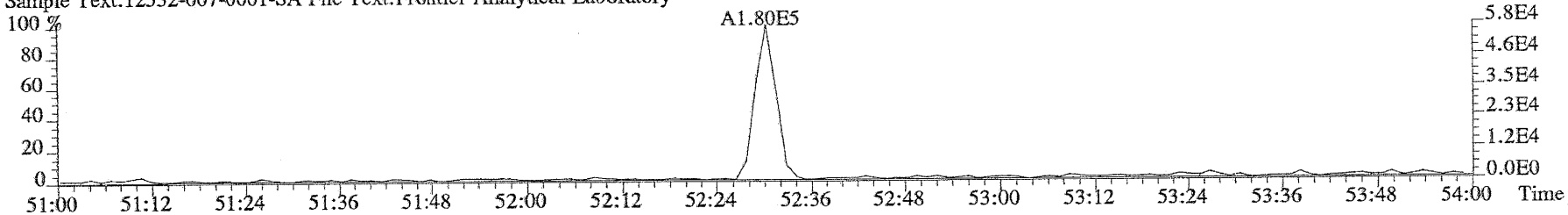
File:24JUL19Z #1-315 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



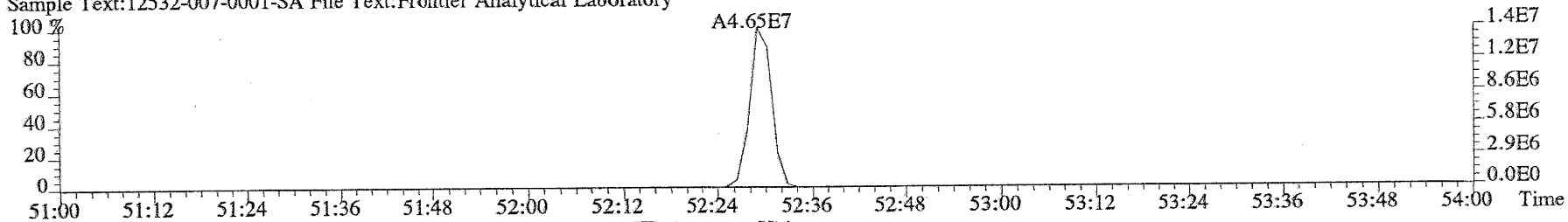
File:24JUL19Z #1-315 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



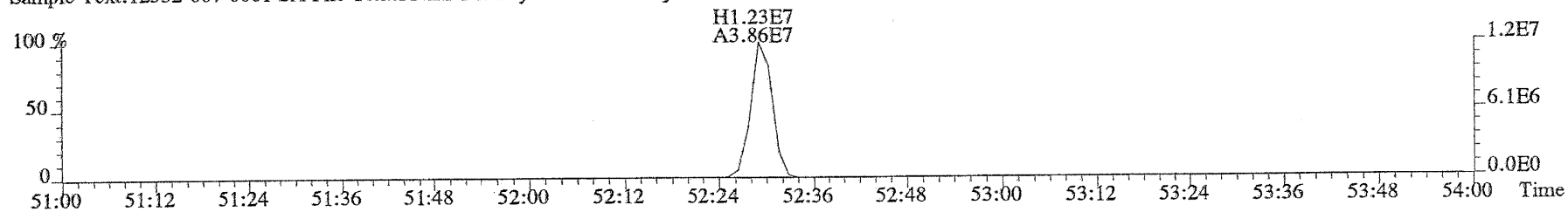
File:24JUL19Z #1-315 Acq:24-JUL-2019 20:48:09 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-007-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 20:48:09 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:12532-007-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 20:48:09 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:12532-007-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12532-008-0001-SA Filename: 24JUL19Z Sam:12 Acquired: 24-JUL-19 21:46:30 ICal: DAILYFAL4-7-24-19
Client ID: LDW-Y2-IN-ENR-CB-CORE ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 5.080

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	3.94e+05	3.23 y	14:32	1.19	7.77		-	-	*	
13C-PCB-1	8.39e+07	3.21 y	14:31	0.82	1990					101
PCB-2	1.43e+05	2.75 y	16:46	1.22	2.80	J	-	-	*	
PCB-3	4.40e+05	2.91 y	16:59	1.21	8.83		-	-	*	
13C-PCB-3	8.09e+07	3.22 y	16:58	0.85	1860					94.5
PCB-4	3.84e+05	1.49 y	18:13	1.14	11.5		-	-	*	
PCB-10	*	* n	NotFnd	1.32	*		644	3400	0.797	
13C-PCB-4	5.77e+07	1.53 y	18:11	0.63	1800					91.4
PCB-9	*	* n	NotFnd	1.39	*		644	3400	0.759	
PCB-7	*	* n	NotFnd	1.42	*		644	3400	0.744	
PCB-6	5.45e+05	1.60 y	20:32	1.39	10.6		-	-	*	
PCB-8	1.75e+06	1.46 y	20:54	1.41	33.6		-	-	*	
PCB-5	*	* n	NotFnd	1.37	*		644	3400	0.769	
PCB-14	*	* n	NotFnd	1.31	*		644	3400	0.808	
PCB-11	6.06e+05	1.41 y	23:06	1.23	13.4		-	-	*	
PCB-13	*	* n	NotFnd	1.26	*		644	3400	0.838	
PCB-12	*	* n	NotFnd	1.26	*		644	3400	0.839	
PCB-15	1.38e+06	1.51 y	23:45	1.16	26.6		-	-	*	
13C-PCB-15	8.76e+07	1.60 y	23:44	0.96	1780					90.3
PCB-19	8.01e+04	1.14 y	22:07	1.16	2.99	J	-	-	*	
PCB-30	*	* n	NotFnd	1.82	*		2380	1180	0.788	
PCB-18	7.49e+05	1.09 y	23:39	1.20	27.1		-	-	*	
PCB-17	4.14e+05	1.10 y	23:49	1.30	13.8		-	-	*	
PCB-27	6.24e+04	1.19 y	24:19	1.77	1.53	J	-	-	*	
PCB-24	9.33e+04	1.04 y	24:20	1.77	2.29	J	-	-	*	
PCB-16	2.65e+05	1.08 y	24:49	1.48	7.75		-	-	*	
PCB-32	3.23e+05	1.17 y	24:51	1.48	9.42		-	-	*	
13C-PCB-19	4.54e+07	1.09 y	22:05	0.45	1980					100
13C-PCB-9	1.01e+08	1.60 y	19:52	-	11.6					
PCB-34	*	* n	NotFnd	1.16	*		1540	1220	0.823	
PCB-23	*	* n	NotFnd	1.33	*		1540	1220	0.720	
PCB-29	*	* n	NotFnd	1.33	*		1540	1220	0.721	
PCB-26	1.78e+06	1.03 y	26:07	1.27	41.7		-	-	*	
PCB-25	8.66e+05	1.14 y	26:17	1.22	21.1		-	-	*	
PCB-31	2.47e+06	1.03 y	26:37	1.20	61.4		-	-	*	
PCB-28	3.50e+06	1.04 y	26:42	1.55	67.3		-	-	*	
PCB-20	1.44e+06	1.06 y	27:19	1.23	35.0		-	-	*	Co-elute PCB 21/33
PCB-21	1.44e+06	1.06 y	27:19	1.23	35.0		-	-	*	Co-elute PCB 20/33
PCB-33	1.44e+06	1.06 y	27:19	1.23	35.0		-	-	*	Co-elute PCB 20/21
PCB-22	8.54e+05	1.07 y	27:43	1.37	18.6		-	-	*	
PCB-36	*	* n	NotFnd	1.27	*		1540	1220	0.756	
PCB-39	*	* n	NotFnd	1.24	*		1540	1220	0.774	
PCB-38	6.71e+04	1.12 y	29:29	1.27	1.57	J	-	-	*	
PCB-35	9.72e+04	1.11 y	30:01	1.12	2.59	J	-	-	*	
PCB-37	1.04e+06	1.12 y	30:24	1.17	26.5		-	-	*	
13C-PCB-37	6.61e+07	1.06 y	30:22	1.46	2060					105

PCB-54	*	*	n	NotFnd	1.26	*		736	1250	0.528	
PCB-50	*	*	n	NotFnd	0.99	*		736	1250	0.673	
PCB-53	2.36e+05	0.73	y	27:20	0.98	8.67		-	-	*	
PCB-51	1.01e+05	0.85	y	27:40	1.01	3.58	J	-	-	*	
PCB-45	1.50e+05	0.75	y	28:04	0.83	6.49		-	-	*	
PCB-46	5.17e+04	0.69	y	28:32	0.81	2.30	J	-	-	*	
PCB-52	4.18e+06	0.79	y	28:59	1.05	143		-	-	*	Co-elute PCB 69
PCB-69	4.18e+06	0.79	y	28:59	1.05	143		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.20	*		736	1250	0.553	
PCB-43	2.26e+06	0.79	y	29:16	0.91	89.6		-	-	*	Co-elute PCB 49
PCB-49	2.26e+06	0.79	y	29:16	0.91	89.6		-	-	*	Co-elute PCB 43
PCB-47	9.21e+05	0.78	y	29:28	0.92	36.1		-	-	*	
PCB-48	3.44e+05	0.80	y	29:35	1.19	10.4		-	-	*	Co-elute PCB 75
PCB-75	3.44e+05	0.80	y	29:35	1.19	10.4		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.20	*		736	1250	0.554	
PCB-62	*	*	n	NotFnd	1.16	*		736	1250	0.575	
PCB-44	1.68e+06	0.81	y	30:12	0.78	77.6		-	-	*	
PCB-42	7.37e+05	0.75	y	30:26	1.01	26.3		-	-	*	Co-elute PCB 59
PCB-59	7.37e+05	0.75	y	30:26	1.01	26.3		-	-	*	Co-elute PCB 42
PCB-72	1.76e+06	0.77	y	30:59	1.14	55.5		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.76e+06	0.77	y	30:59	1.14	55.5		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.76e+06	0.77	y	30:59	1.14	55.5		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.76e+06	0.77	y	30:59	1.14	55.5		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.75e+05	0.78	y	31:14	1.33	4.75		-	-	*	
PCB-40	1.72e+05	0.87	y	31:25	0.71	8.77		-	-	*	
PCB-57	7.29e+04	0.85	y	31:46	1.21	2.16	J	-	-	*	
PCB-67	1.65e+05	0.81	y	32:03	1.19	5.01		-	-	*	
PCB-58	*	*	n	NotFnd	1.22	*		736	1250	0.546	
PCB-63	1.27e+05	0.78	y	32:19	1.22	3.74	J	-	-	*	
PCB-74	1.40e+06	0.80	y	32:36	1.22	41.4		-	-	*	
PCB-61	3.55e+06	0.79	y	32:48	1.10	116		-	-	*	Co-elute PCB 70
PCB-70	3.55e+06	0.79	y	32:48	1.10	116		-	-	*	Co-elute PCB 61
PCB-76	3.28e+06	0.83	y	33:00	1.25	94.5		-	-	*	Co-elute PCB 66
PCB-66	3.28e+06	0.83	y	33:00	1.25	94.5		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.40	*		736	1250	0.477	
PCB-55	1.62e+05	0.83	y	33:29	1.22	4.78		-	-	*	
13C-PCB-54	5.47e+07	0.82	y	25:37	1.21	2050					104
PCB-104	*	*	n	NotFnd	1.12	*		468	884	0.505	
PCB-96	3.82e+04	1.37	y	31:15	1.06	1.68	J	-	-	*	
PCB-103	6.85e+04	1.52	y	31:46	0.86	3.70	J	-	-	*	
PCB-100	3.33e+04	1.43	y	32:05	0.86	1.81	J	-	-	*	
PCB-94	2.58e+04	1.40	y	32:32	0.72	1.67	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.78	*		468	884	0.722	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.78	*		468	884	0.722	Co-elute PCB 98
PCB-95	3.57e+06	1.55	y	33:04	0.73	228		-	-	*	
PCB-93	*	*	n	NotFnd	0.72	*		468	884	0.780	
PCB-88	6.51e+05	1.51	y	33:27	0.84	36.1		-	-	*	Co-elute PCB 91
PCB-91	6.51e+05	1.51	y	33:27	0.84	36.1		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.95	*		468	884	0.596	
13C-PCB-104	4.22e+07	1.60	y	30:03	1.00	1910					97.0
13C-PCB-28	7.43e+07	1.05	y	26:41	1.75	1930					98.0
13C-PCB-52	4.34e+07	0.81	y	28:58	-	10.7					

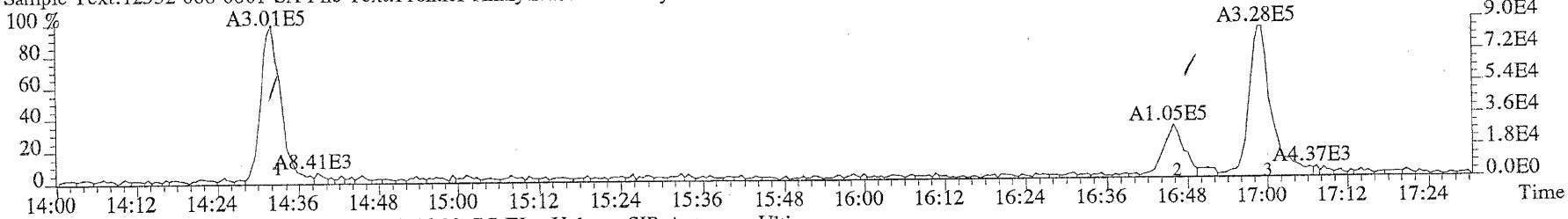
PCB-56	1.55e+06	0.80	y	33:58	1.14	55.3		-	-	*	Co-elute PCB 60
PCB-60	1.55e+06	0.80	y	33:58	1.14	55.3		-	-	*	Co-elute PCB 56
PCB-79	1.82e+05	0.67	y	34:59	1.24	5.93		-	-	*	
PCB-78	4.72e+04	0.75	y	35:34	1.20	1.60	J	-	-	*	
PCB-81	1.98e+05	0.74	y	36:10	1.21	6.64		-	-	*	
13C-PCB-81	4.83e+07	0.79	y	36:07	1.53	1920					97.5
PCB-77	4.71e+05	0.80	y	36:43	1.04	18.2		-	-	*	
13C-PCB-77	4.87e+07	0.79	y	36:41	1.54	1920					97.7
PCB-155	*	*	n	NotFnd	1.05	*		568	324	0.389	
PCB-150	2.39e+04	1.28	y	35:24	0.95	1.22	J	-	-	*	
PCB-152	*	*	n	NotFnd	0.93	*		568	324	0.442	
PCB-145	*	*	n	NotFnd	0.93	*		568	324	0.438	
PCB-136	8.35e+05	1.30	y	36:35	0.84	48.8		-	-	*	
PCB-148	*	*	n	NotFnd	0.75	*		568	324	0.549	
PCB-154	1.10e+05	1.39	y	37:09	0.77	6.94		-	-	*	
13C-PCB-155	4.03e+07	1.28	y	34:11	1.35	1800					91.7
13C-PCB-111	3.25e+07	1.62	y	36:16	1.21	1630					82.8
13C-PCB-101	3.24e+07	1.61	y	34:37	-	9.98					
PCB-84	2.03e+06	1.60	y	34:18	0.85	110		-	-	*	Co-elute PCB 92
PCB-92	2.03e+06	1.60	y	34:18	0.85	110		-	-	*	Co-elute PCB 84
PCB-89	5.23e+04	1.49	y	34:30	0.79	3.04	J	-	-	*	
PCB-90	5.24e+06	1.58	y	34:39	0.92	264		-	-	*	Co-elute PCB 101
PCB-101	5.24e+06	1.58	y	34:39	0.92	264		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*		1180	1090	1.01	
PCB-99	2.91e+06	1.58	y	34:58	0.96	140		-	-	*	
PCB-119	2.41e+05	1.45	y	35:24	1.17	9.49		-	-	*	
PCB-83	2.85e+05	1.62	y	35:34	0.92	14.3		-	-	*	Co-elute PCB 112
PCB-112	2.85e+05	1.62	y	35:34	0.92	14.3		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.09	*		1180	1090	1.01	
PCB-97	1.52e+06	1.57	y	35:53	0.75	93.8		-	-	*	
PCB-86	*	*	n	NotFnd	0.83	*		1180	1090	1.33	
PCB-125	2.23e+06	1.66	y	36:10	1.00	103		-	-	*	Co-elute PCB 87/117
PCB-87	2.23e+06	1.66	y	36:10	1.00	103		-	-	*	Co-elute PCB 125/117
PCB-117	2.23e+06	1.66	y	36:10	1.00	103		-	-	*	Co-elute PCB 125/87
PCB-111	1.20e+05	1.37	y	36:19	1.12	4.92		-	-	*	Co-elute PCB 115
PCB-115	1.20e+05	1.37	y	36:19	1.12	4.92		-	-	*	Co-elute PCB 111
PCB-85	9.24e+05	1.57	y	36:25	0.98	43.5		-	-	*	Co-elute PCB 116
PCB-116	9.24e+05	1.57	y	36:25	0.98	43.5		-	-	*	Co-elute PCB 85
PCB-120	6.07e+04	1.50	y	36:39	1.21	2.31	J	-	-	*	
PCB-110	8.21e+06	1.55	y	36:46	1.12	338		-	-	*	
PCB-82	4.70e+05	1.59	y	37:23	0.65	33.2		-	-	*	
PCB-124	3.50e+05	1.70	y	38:02	1.16	13.9		-	-	*	
PCB-108	6.30e+05	1.63	y	38:10	1.12	26.0		-	-	*	Co-elute PCB 107
PCB-107	6.30e+05	1.63	y	38:10	1.12	26.0		-	-	*	Co-elute PCB 108
PCB-123	1.53e+05	1.78	y	38:20	0.97	7.74		-	-	*	
13C-PCB-123	4.03e+07	1.58	y	38:19	1.48	1330					67.4
PCB-118	7.58e+06	1.56	y	38:30	1.06	315		-	-	*	Co-elute PCB 106
PCB-106	7.58e+06	1.56	y	38:30	1.06	315		-	-	*	Co-elute PCB 118
13C-PCB-118	4.48e+07	1.60	y	38:29	1.54	1420					72.0
PCB-114	1.73e+05	1.37	y	39:06	1.07	7.28		-	-	*	
13C-PCB-114	4.37e+07	1.59	y	39:06	1.46	1460					74.0
PCB-122	1.04e+05	1.41	y	39:15	1.09	4.41		-	-	*	
PCB-105	2.85e+06	1.58	y	39:56	1.14	117		-	-	*	
13C-PCB-105	4.21e+07	1.58	y	39:56	1.40	1470					74.7

PCB-127	*	*	n	NotFnd	1.00	*		1310	2020	1.62	
PCB-126	8.29e+04	1.49	y	42:03	1.10	3.54	J	-	-	*	
13C-PCB-126	4.19e+07	1.61	y	42:03	1.32	1550					78.5
PCB-151	1.14e+06	1.18	y	37:46	1.10	53.7		-	-	*	
PCB-135	7.73e+05	1.26	y	37:59	1.01	39.4		-	-	*	
PCB-144	2.39e+05	1.38	y	38:05	1.25	9.87		-	-	*	
PCB-147	1.56e+05	1.26	y	38:12	1.15	7.02		-	-	*	
PCB-139	4.74e+06	1.24	y	38:27	1.18	208		-	-	*	Co-elute PCB 149
PCB-149	4.74e+06	1.24	y	38:27	1.18	208		-	-	*	Co-elute PCB 139
PCB-140	7.11e+04	1.41	y	38:37	1.16	3.17	J	-	-	*	
PCB-143	3.10e+05	1.22	y	39:03	0.96	16.7		-	-	*	Co-elute PCB 134
PCB-134	3.10e+05	1.22	y	39:03	0.96	16.7		-	-	*	Co-elute PCB 143
PCB-131	1.86e+05	1.33	y	39:20	0.94	10.3		-	-	*	Co-elute PCB 133
PCB-133	1.86e+05	1.33	y	39:20	0.94	10.3		-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.99	*		970	856	0.957	
PCB-165	1.01e+06	1.24	y	39:41	1.26	41.4		-	-	*	Co-elute PCB 146
PCB-146	1.01e+06	1.24	y	39:41	1.26	41.4		-	-	*	Co-elute PCB 165
PCB-161	1.83e+06	1.17	y	39:57	1.15	82.4		-	-	*	Co-elute PCB 132
PCB-132	1.83e+06	1.17	y	39:57	1.15	82.4		-	-	*	Co-elute PCB 161
PCB-153	6.46e+06	1.27	y	40:04	1.27	262		-	-	*	
PCB-168	*	*	n	NotFnd	1.35	*		970	856	0.698	
PCB-141	1.07e+06	1.24	y	40:45	1.02	54.4		-	-	*	
PCB-137	3.42e+05	1.19	y	41:08	0.94	18.8		-	-	*	
PCB-130	4.75e+05	1.19	y	41:13	0.89	27.6		-	-	*	
PCB-138	8.11e+06	1.23	y	41:35	1.25	336		-	-	*	Co-elute PCB 163/164
PCB-163	8.11e+06	1.23	y	41:35	1.25	336		-	-	*	Co-elute PCB 138/164
PCB-164	8.11e+06	1.23	y	41:35	1.25	336		-	-	*	Co-elute PCB 138/163
PCB-158	1.06e+06	1.29	y	41:48	1.33	41.1		-	-	*	Co-elute PCB 160
PCB-160	1.06e+06	1.29	y	41:48	1.33	41.1		-	-	*	Co-elute PCB 158
PCB-129	3.22e+05	1.23	y	42:03	0.85	19.5		-	-	*	
PCB-166	5.22e+04	1.33	y	42:29	1.28	2.11	J	-	-	*	
PCB-159	9.62e+04	1.38	y	42:49	1.37	3.64	J	-	-	*	
PCB-128	1.37e+06	1.25	y	43:02	1.08	65.8		-	-	*	Co-elute PCB 162
PCB-162	1.37e+06	1.25	y	43:02	1.08	65.8		-	-	*	Co-elute PCB 128
PCB-167	4.49e+05	1.33	y	43:25	1.18	20.4		-	-	*	
13C-PCB-167	3.68e+07	1.28	y	43:23	1.13	1590					81.0
PCB-156	1.02e+06	1.29	y	44:39	1.24	44.0		-	-	*	
13C-PCB-156	3.68e+07	1.29	y	44:37	1.06	1690					85.7
PCB-157	2.69e+05	1.25	y	44:54	1.18	11.7		-	-	*	
13C-PCB-157	3.85e+07	1.29	y	44:52	1.07	1760					89.3
PCB-169	*	*	n	NotFnd	1.12	*		970	856	0.723	
13C-PCB-169	4.03e+07	1.27	y	46:44	1.00	1970					100

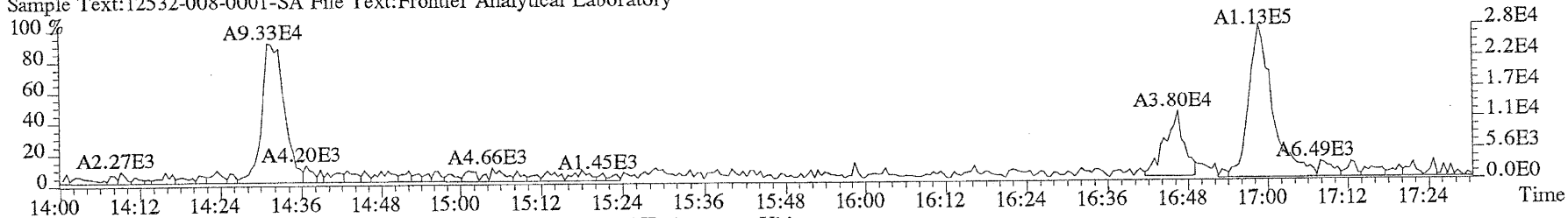
PCB-188	*	*	n	NotFnd	1.03	*		816	432	0.641	
13C-PCB-188	3.40e+07	1.07	y	39:41	1.26	1310					66.7
PCB-184	*	*	n	NotFnd	1.18	*		816	432	0.490	
PCB-179	5.92e+05	1.10	y	40:52	1.11	29.3		-	-	*	
PCB-176	1.82e+05	1.05	y	41:18	1.08	9.29		-	-	*	
PCB-186	*	*	n	NotFnd	1.08	*		816	432	0.536	
PCB-178	2.30e+05	1.10	y	42:21	0.74	17.0		-	-	*	
PCB-175	5.52e+04	1.18	y	42:39	0.76	4.02		-	-	*	
PCB-187	1.36e+06	1.06	y	42:49	0.82	91.1		-	-	*	Co-elute PCB 182
PCB-182	1.36e+06	1.06	y	42:49	0.82	91.1		-	-	*	Co-elute PCB 187
PCB-183	6.72e+05	0.99	y	43:07	0.80	46.5		-	-	*	
PCB-185	1.19e+05	1.19	y	43:46	0.71	9.27		-	-	*	
PCB-174	1.03e+06	1.09	y	44:06	0.73	78.0		-	-	*	
PCB-181	*	*	n	NotFnd	0.66	*		816	432	0.880	
PCB-177	6.16e+05	1.01	y	44:21	0.64	52.6		-	-	*	
PCB-171	3.13e+05	1.17	y	44:37	0.69	25.1		-	-	*	
PCB-173	3.01e+04	0.96	y	45:04	0.62	2.69	J	-	-	*	
PCB-172	1.88e+05	1.10	y	45:27	0.64	16.3		-	-	*	
PCB-192	*	*	n	NotFnd	0.84	*		816	432	0.690	
PCB-180	2.60e+06	1.04	y	45:46	0.65	221		-	-	*	
PCB-193	2.00e+05	1.14	y	45:56	0.90	12.3		-	-	*	
PCB-191	7.66e+04	1.05	y	46:09	0.83	5.07		-	-	*	
PCB-170	1.09e+06	1.06	y	47:04	0.60	99.9		-	-	*	
PCB-190	3.64e+05	1.16	y	47:14	0.85	23.7		-	-	*	
PCB-189	8.32e+04	1.01	y	48:26	1.06	4.12		-	-	*	
13C-PCB-189	3.75e+07	1.06	y	48:24	0.96	1910					96.8
PCB-202	1.44e+05	0.87	y	44:49	1.03	9.50		-	-	*	
PCB-201	8.45e+04	0.86	y	45:17	1.09	5.24		-	-	*	
PCB-204	*	*	n	NotFnd	1.05	*		320	716	0.639	
PCB-197	3.08e+04	0.92	y	45:40	1.09	1.91	J	-	-	*	
PCB-200	9.16e+04	0.78	y	46:24	1.04	5.94		-	-	*	
PCB-198	3.12e+04	0.82	y	47:35	0.70	3.00	J	-	-	*	
PCB-199	4.97e+05	0.88	y	47:42	0.70	48.1		-	-	*	
PCB-203	6.78e+05	0.90	y	47:56	0.83	55.3		-	-	*	Co-elute PCB 196
PCB-196	6.78e+05	0.90	y	47:56	0.83	55.3		-	-	*	Co-elute PCB 203
13C-PCB-202	2.92e+07	0.91	y	44:47	0.89	1610					81.6
13C-PCB-178	2.11e+07	1.07	y	42:19	0.78	1320					67.0
13C-PCB-138	4.03e+07	1.27	y	46:44	-	14.6					
PCB-195	2.60e+05	0.80	y	49:02	0.67	16.6		-	-	*	
PCB-194	7.77e+05	0.89	y	49:50	0.84	39.9		-	-	*	
PCB-205	7.00e+04	0.78	y	50:05	1.06	2.84	J	-	-	*	
13C-PCB-205	4.59e+07	0.90	y	50:05	1.30	1890					96.1
PCB-208	1.02e+05	1.42	y	49:09	1.09	4.91		-	-	*	
13C-PCB-208	3.77e+07	0.81	y	49:09	1.05	1930					97.8
PCB-207	4.34e+04	1.19	y	49:27	1.22	2.08	J	-	-	*	
PCB-206	3.20e+05	1.40	y	51:18	1.08	19.6		-	-	*	
13C-PCB-206	2.98e+07	0.80	y	51:17	0.89	1790					91.0
PCB-209	2.09e+05	1.11	y	52:30	1.14	9.97		-	-	*	
13C-PCB-209	3.63e+07	1.23	y	52:29	1.10	1760					89.3
13C-PCB-194	3.68e+07	0.91	y	49:48	-	13.8					

Analyst: J Date: 7/25/19

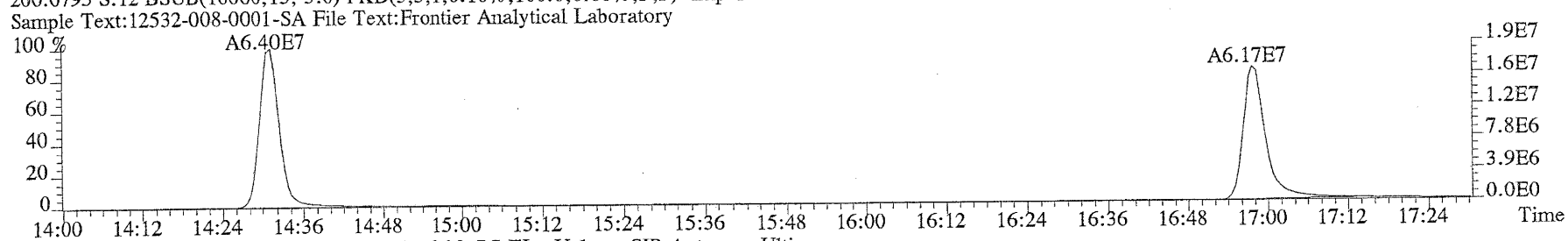
File:24JUL19Z #1-784 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:12 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



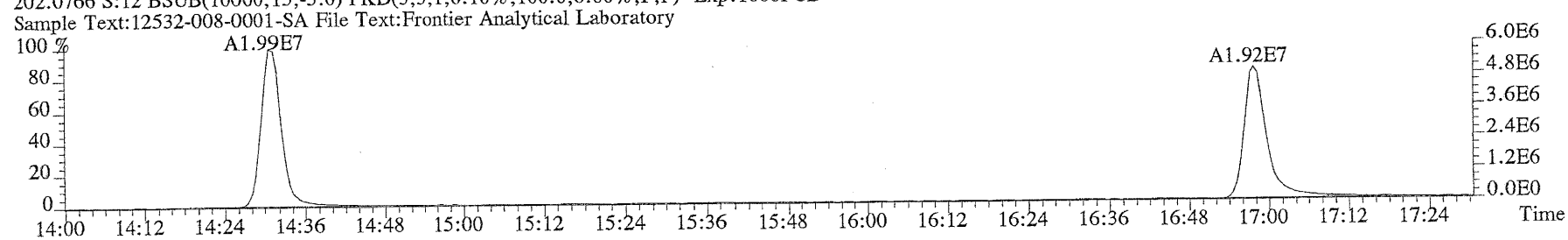
File:24JUL19Z #1-784 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:12 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



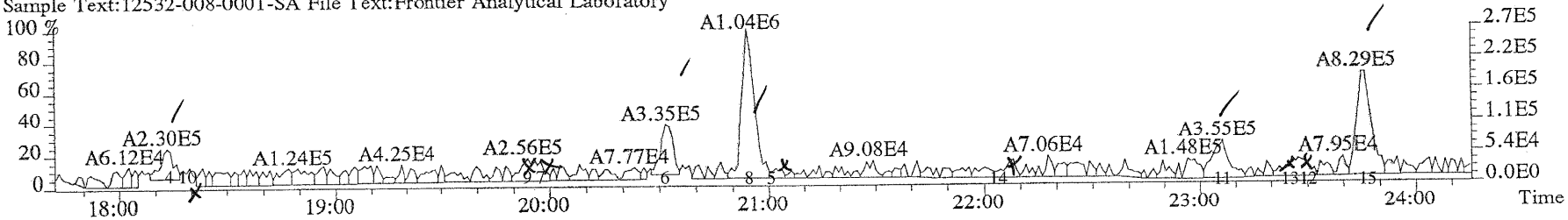
File:24JUL19Z #1-784 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:12 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



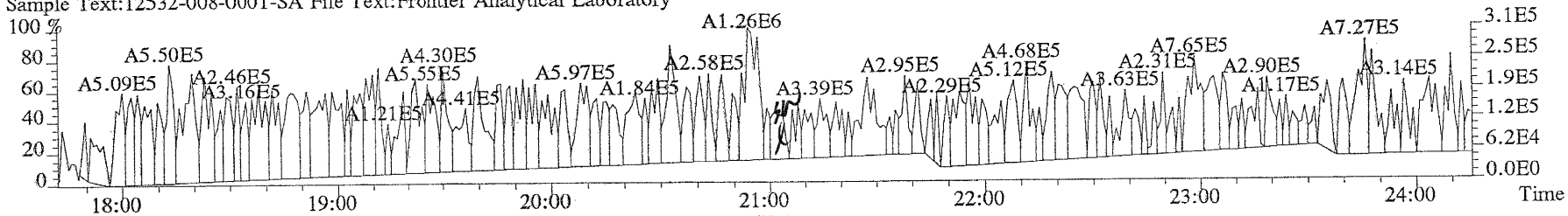
File:24JUL19Z #1-784 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:12 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



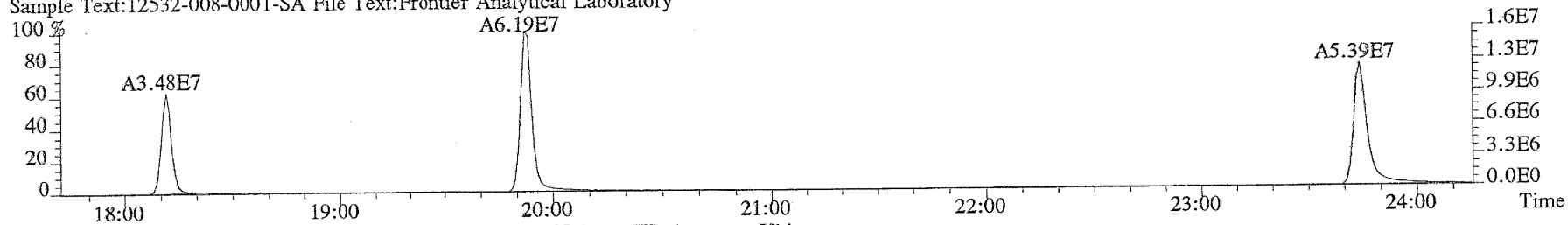
File:24JUL19Z #1-520 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



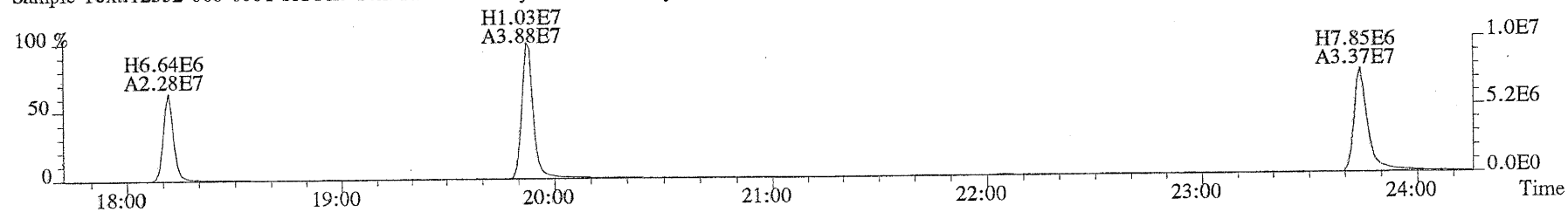
File:24JUL19Z #1-520 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



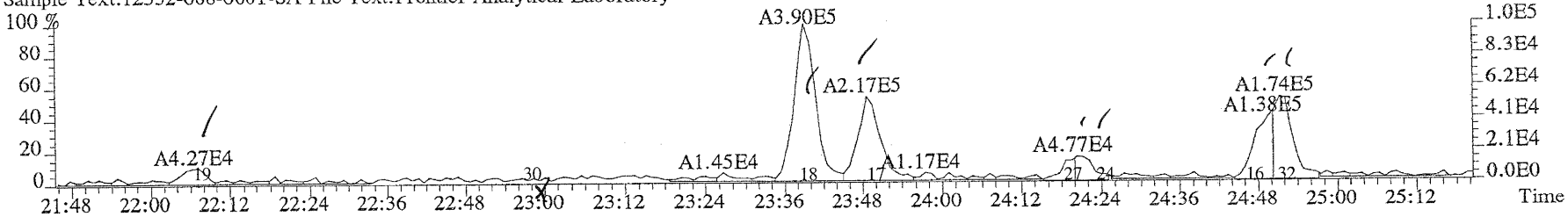
File:24JUL19Z #1-520 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



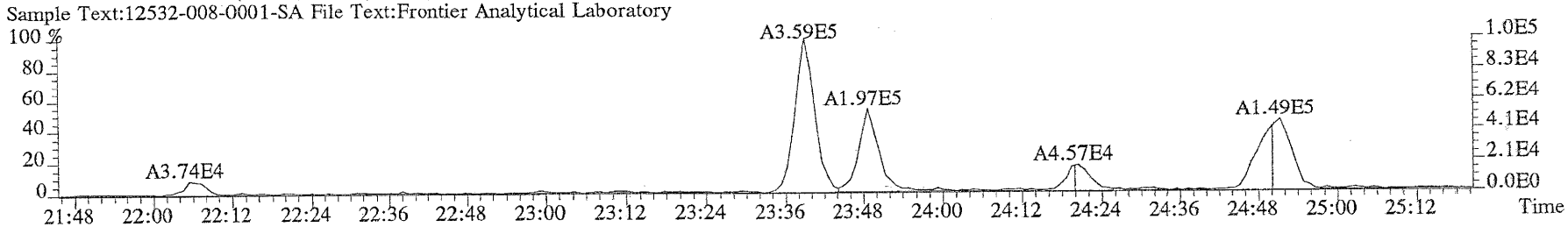
File:24JUL19Z #1-520 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



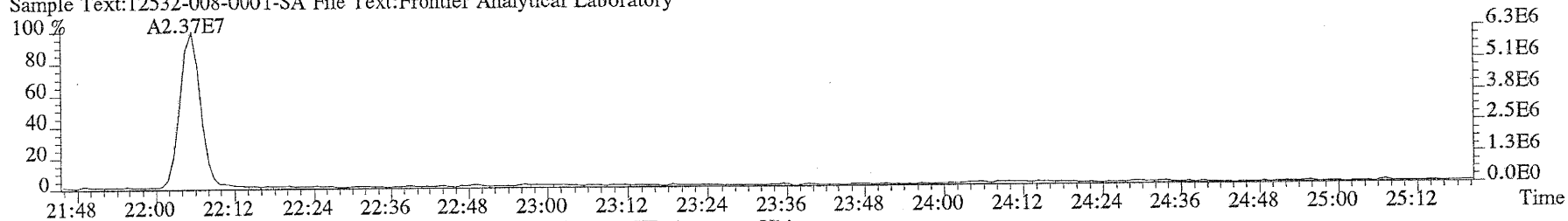
File:24JUL19Z #1-520 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



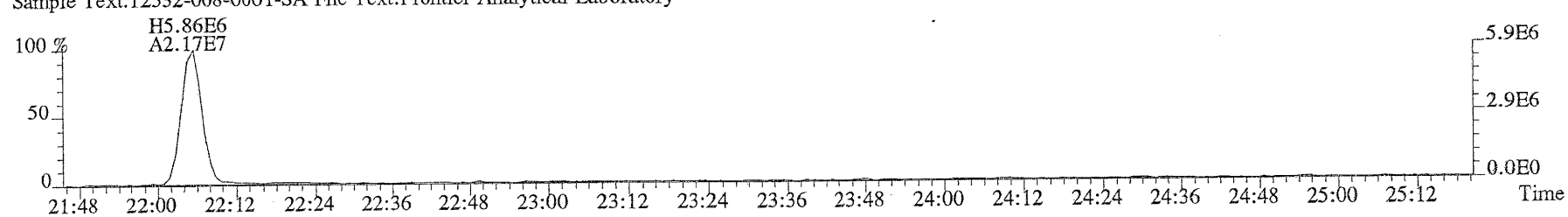
File:24JUL19Z #1-520 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



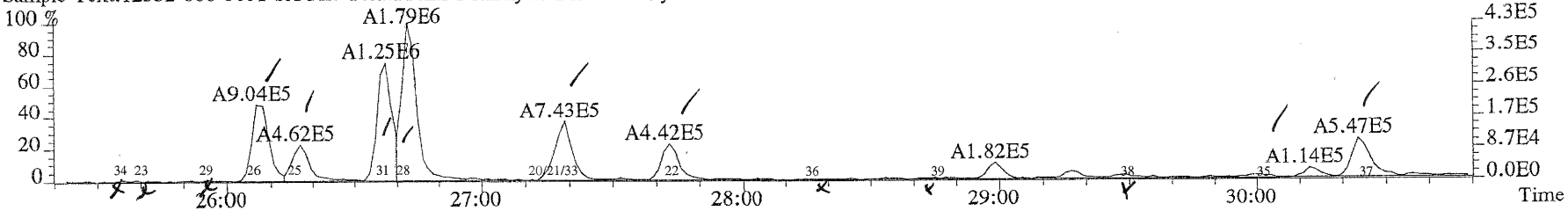
File:24JUL19Z #1-520 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



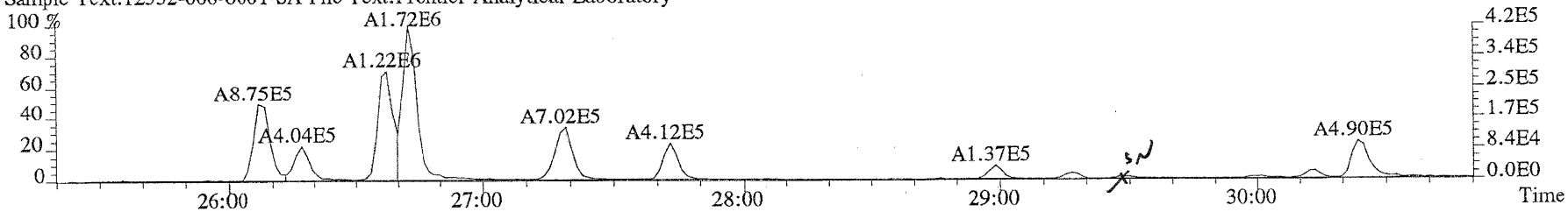
File:24JUL19Z #1-520 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



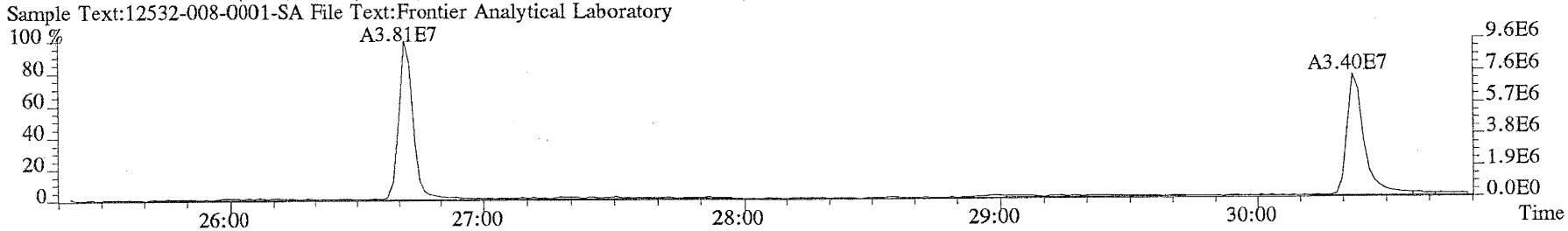
File:24JUL19Z #1-401 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



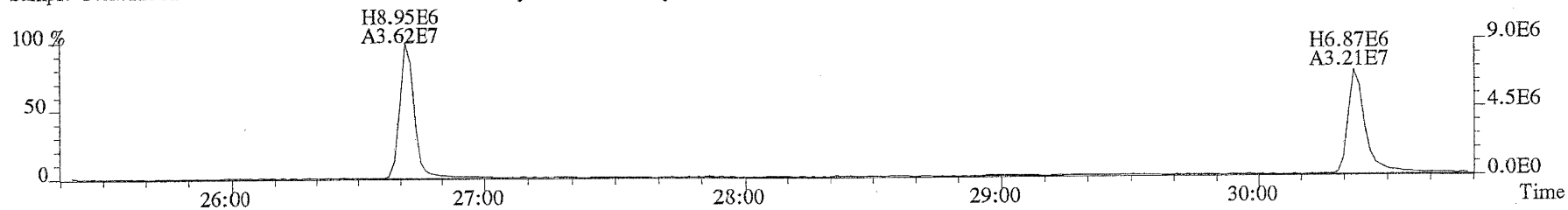
File:24JUL19Z #1-401 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



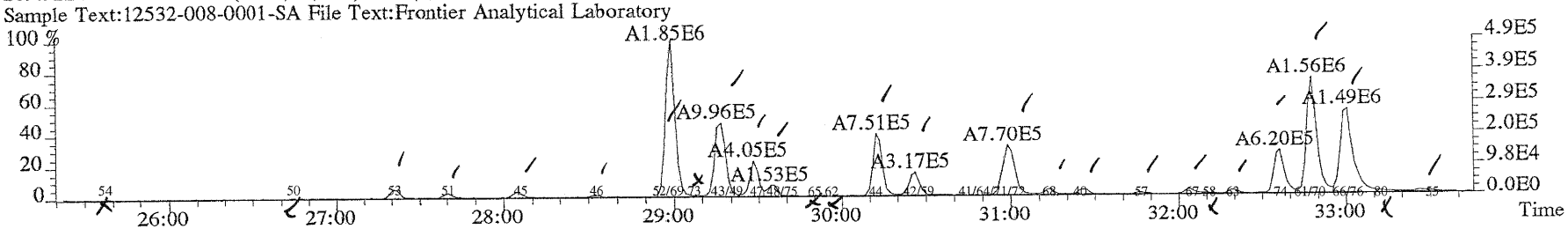
File:24JUL19Z #1-401 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



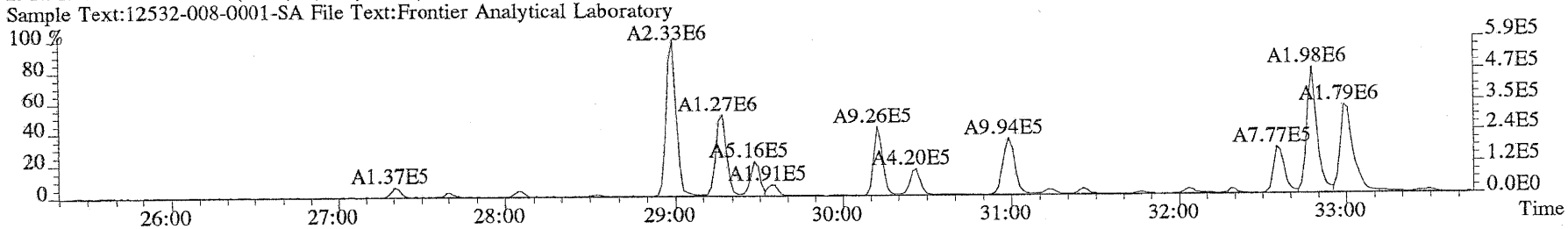
File:24JUL19Z #1-401 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



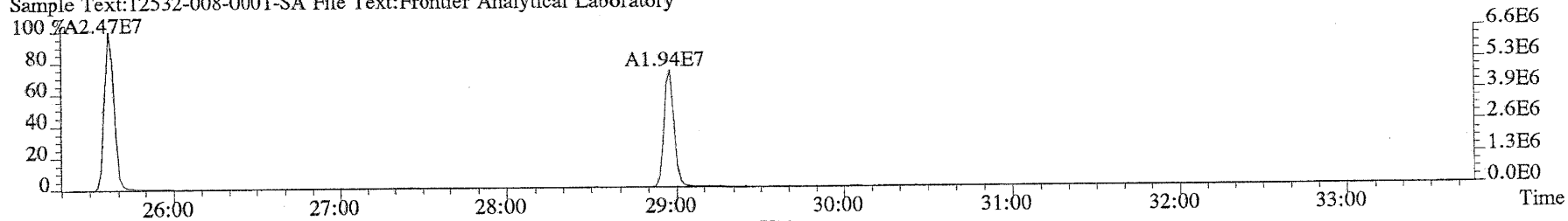
File:24JUL19Z #1-401 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



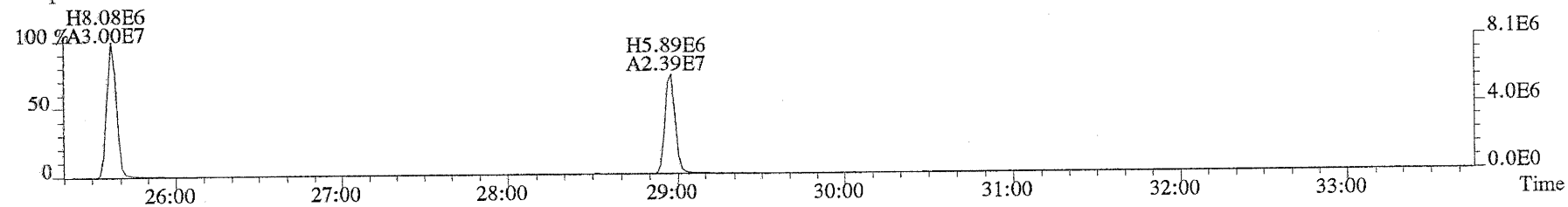
File:24JUL19Z #1-401 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



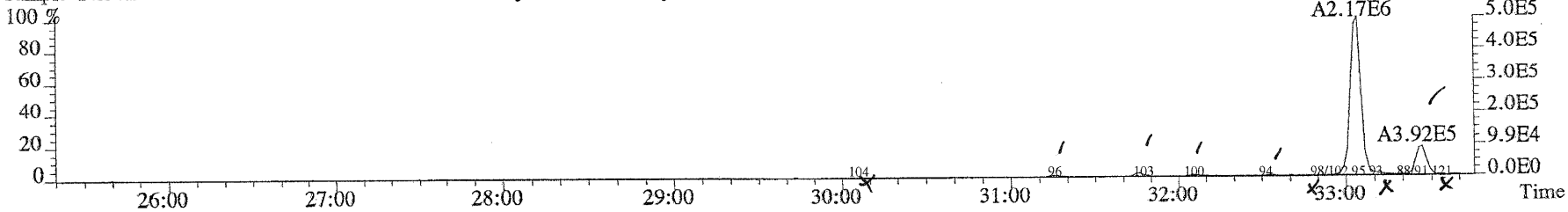
File:24JUL19Z #1-401 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



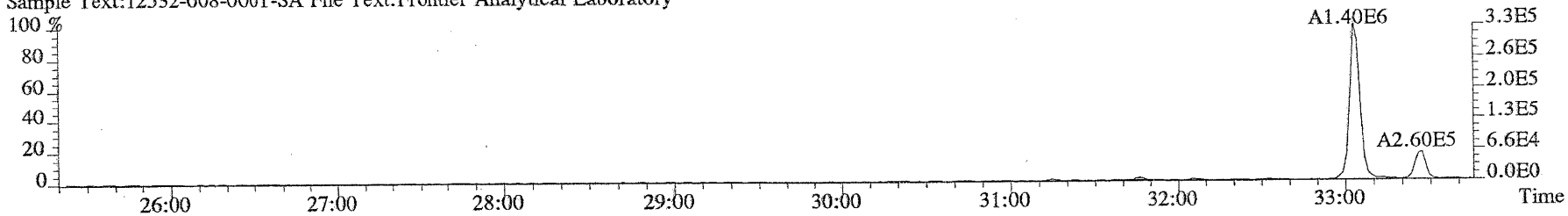
File:24JUL19Z #1-401 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



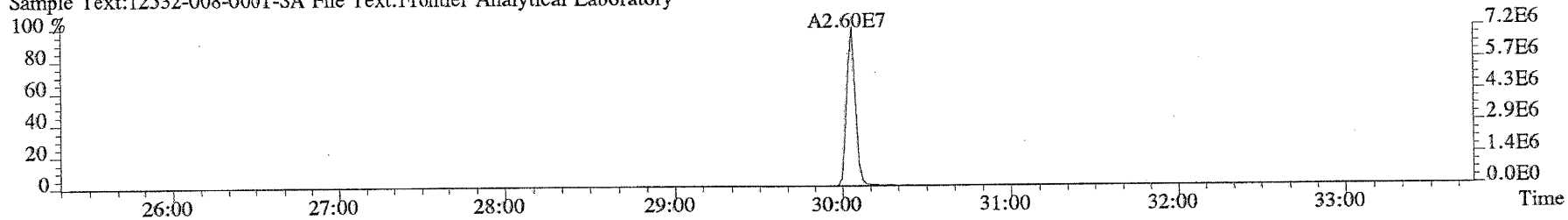
File:24JUL19Z #1-401 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



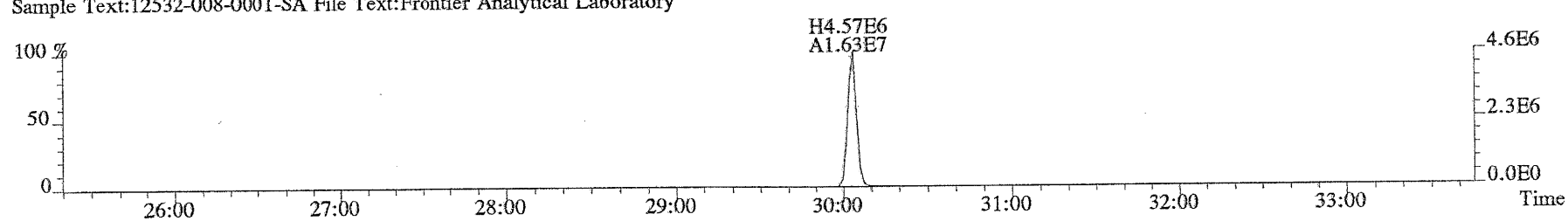
File:24JUL19Z #1-401 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



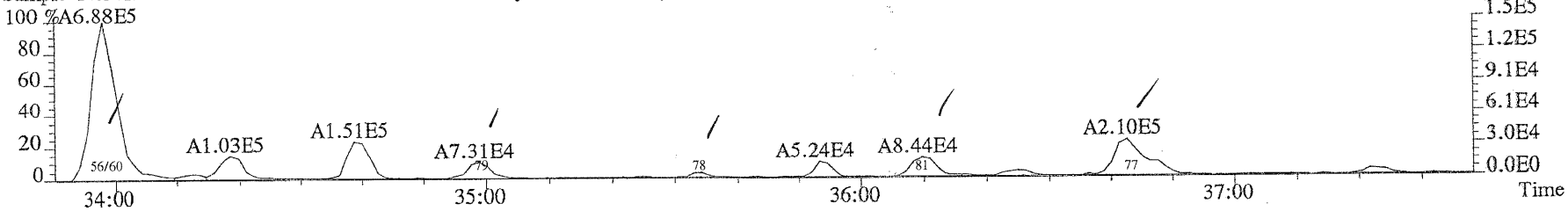
File:24JUL19Z #1-401 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



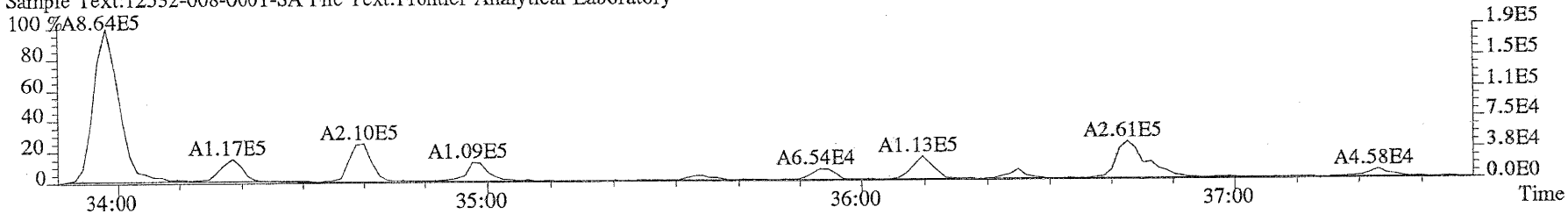
File:24JUL19Z #1-401 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



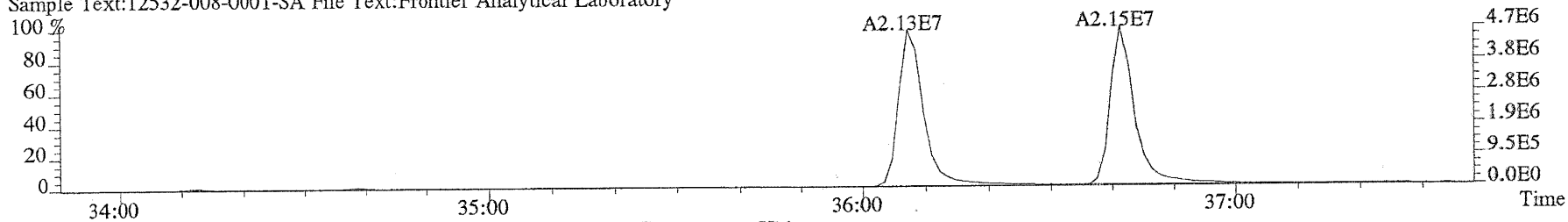
File:24JUL19Z #1-181 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



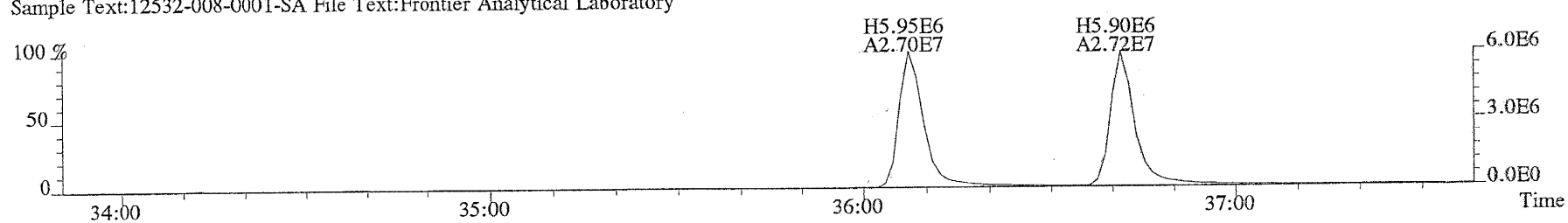
File:24JUL19Z #1-181 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



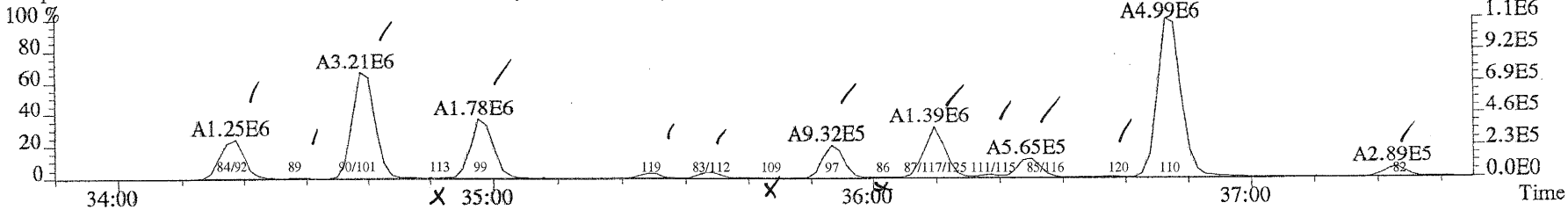
File:24JUL19Z #1-181 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



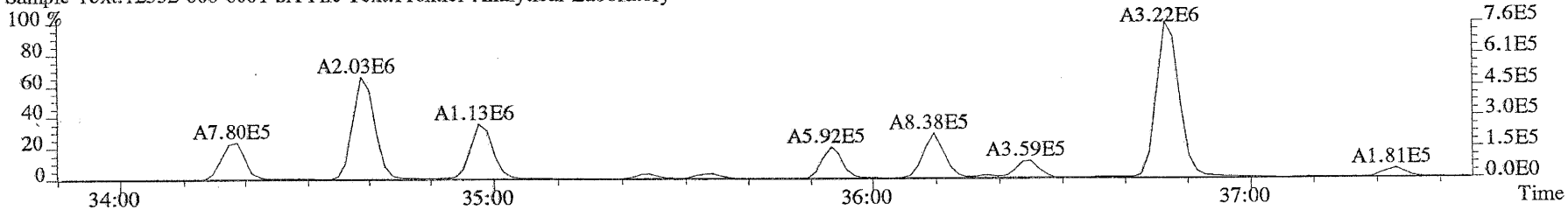
File:24JUL19Z #1-181 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



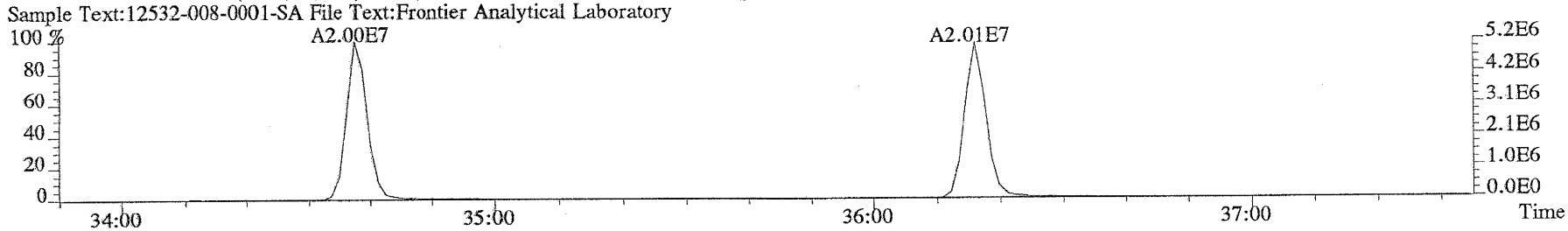
File:24JUL19Z #1-181 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



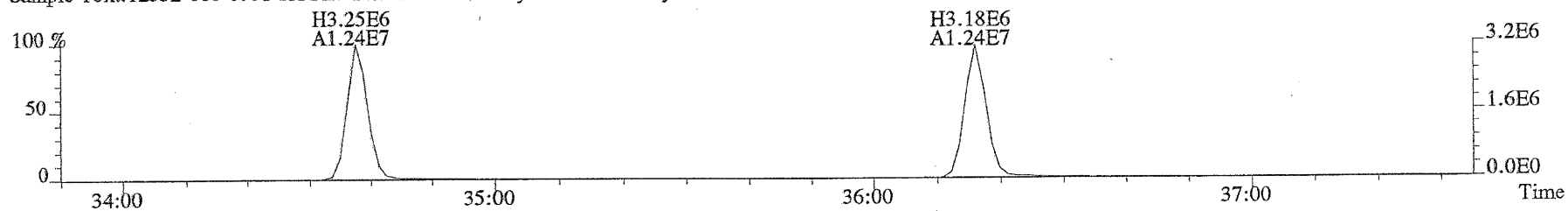
File:24JUL19Z #1-181 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



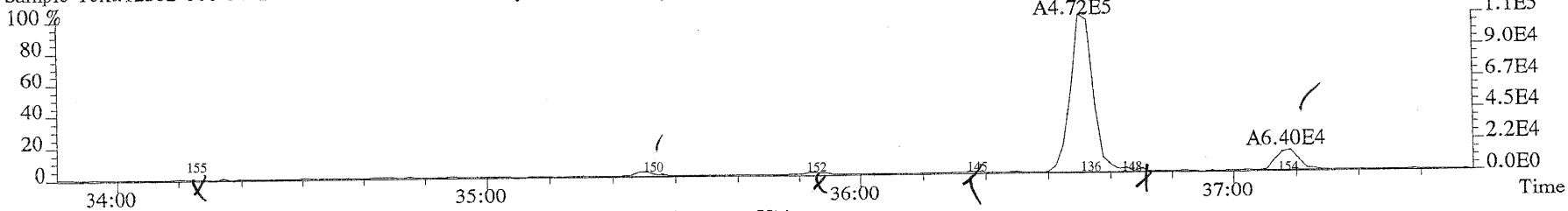
File:24JUL19Z #1-181 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



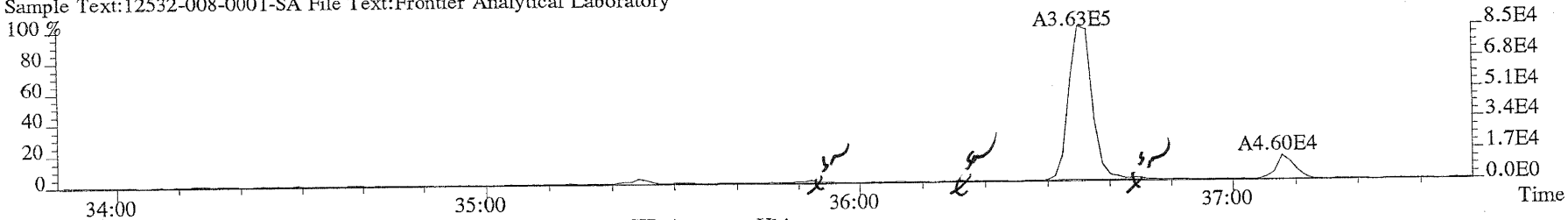
File:24JUL19Z #1-181 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



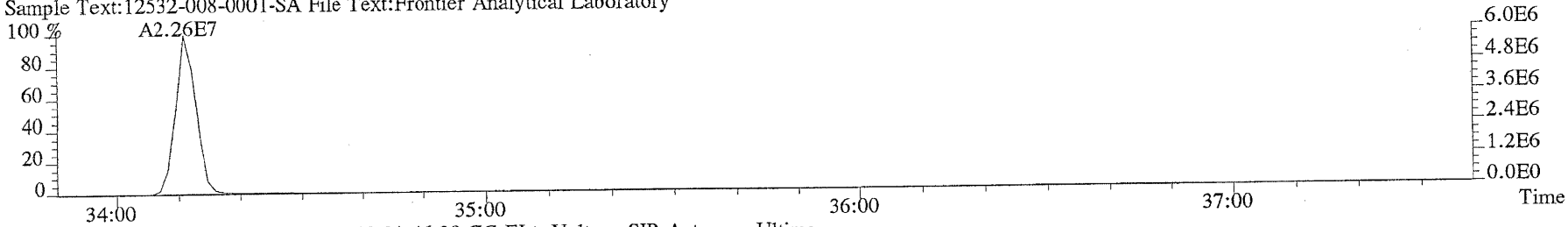
File:24JUL19Z #1-181 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



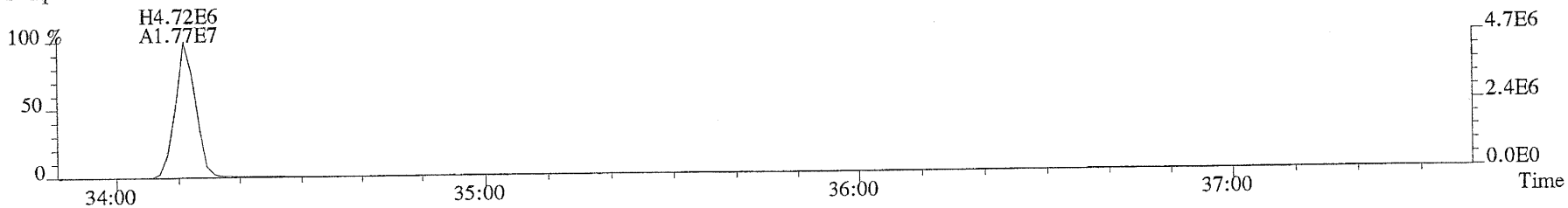
File:24JUL19Z #1-181 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



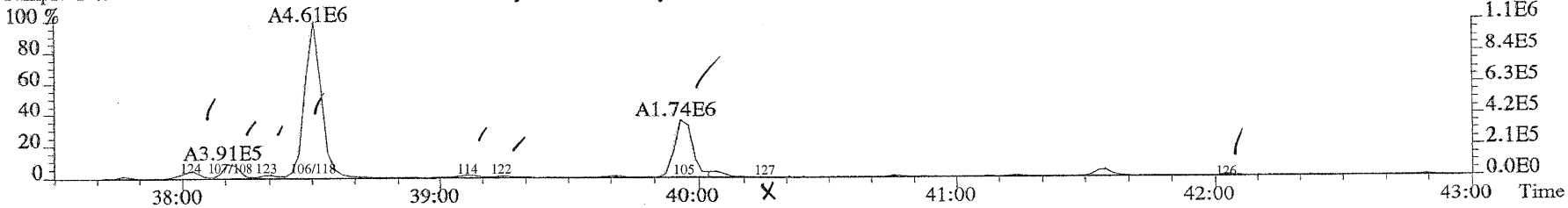
File:24JUL19Z #1-181 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



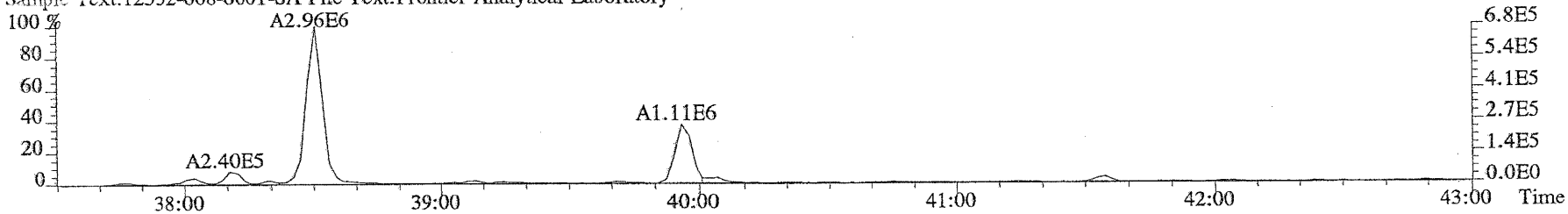
File:24JUL19Z #1-181 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



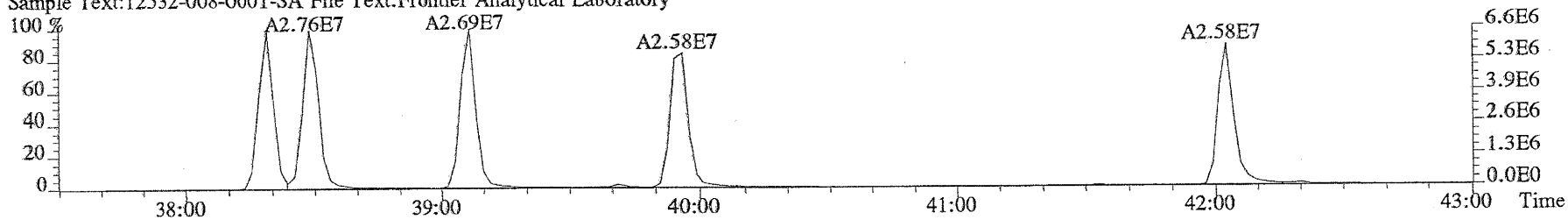
File:24JUL19Z #1-405 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



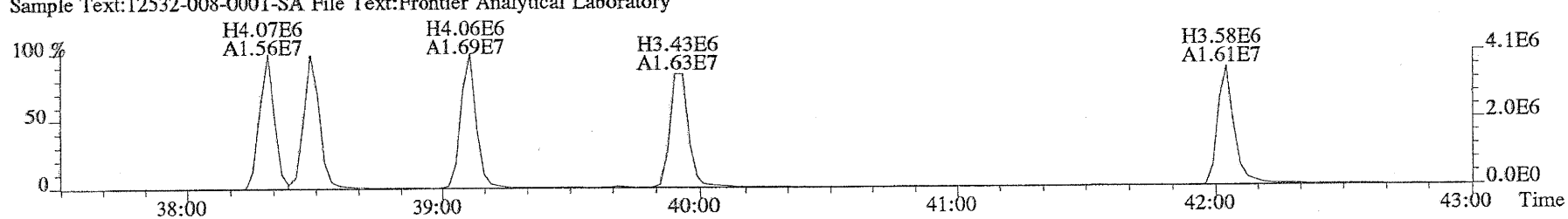
File:24JUL19Z #1-405 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



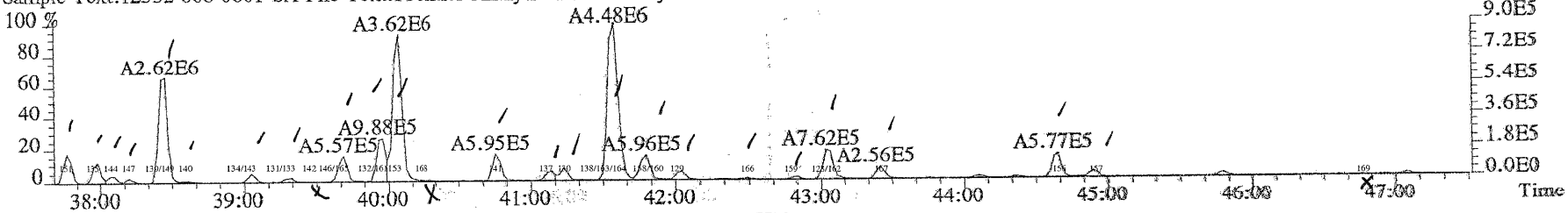
File:24JUL19Z #1-405 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



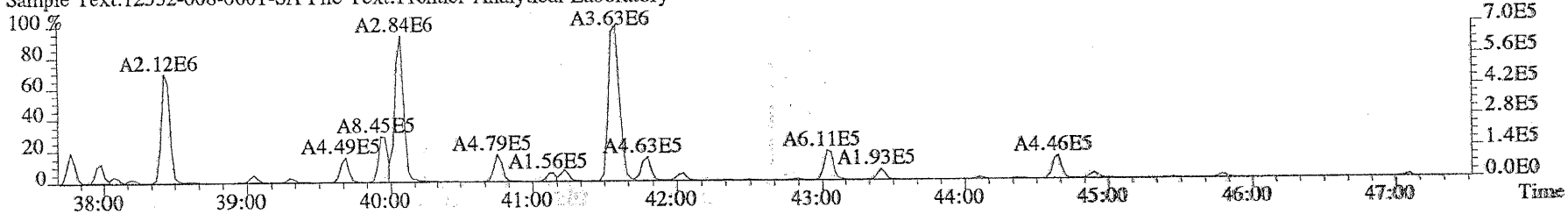
File:24JUL19Z #1-405 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



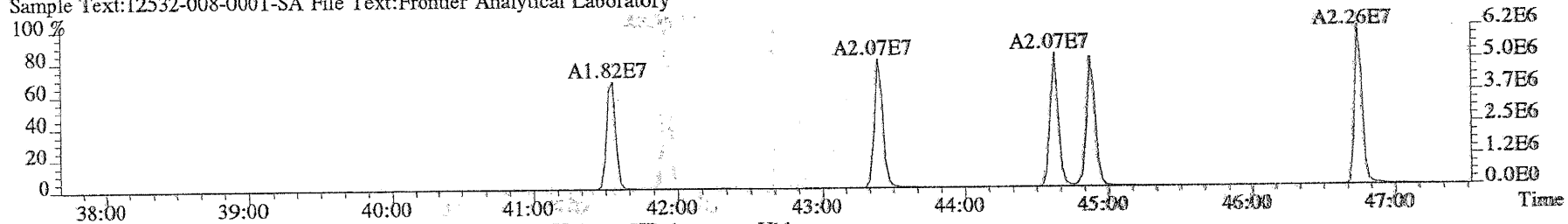
File:24JUL19Z #1-405 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



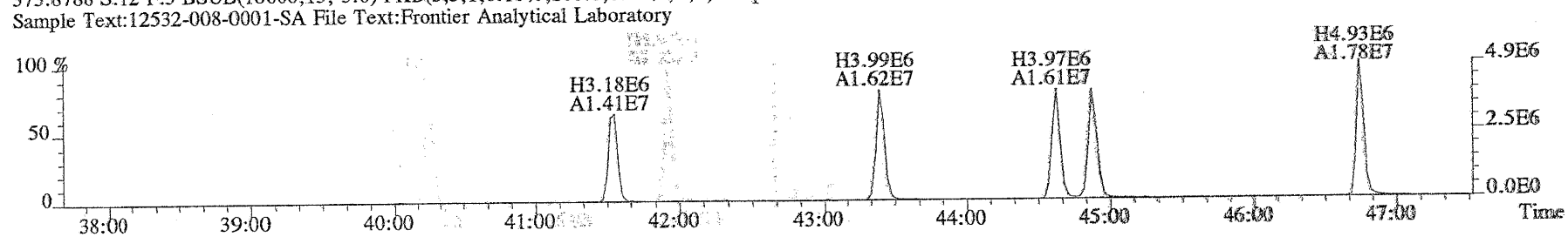
File:24JUL19Z #1-405 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



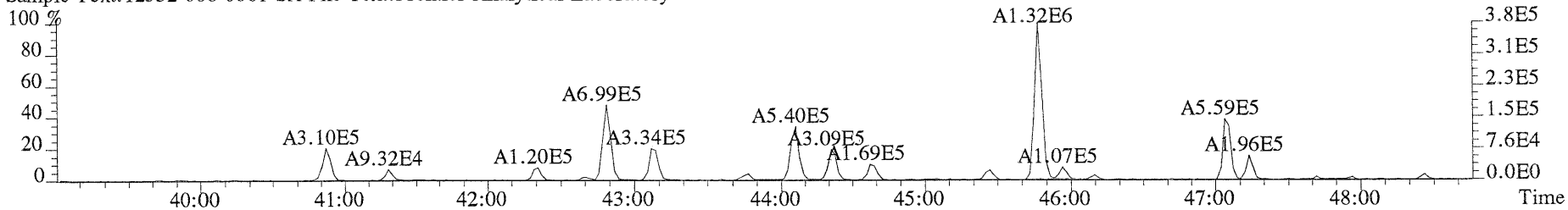
File:24JUL19Z #1-405 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



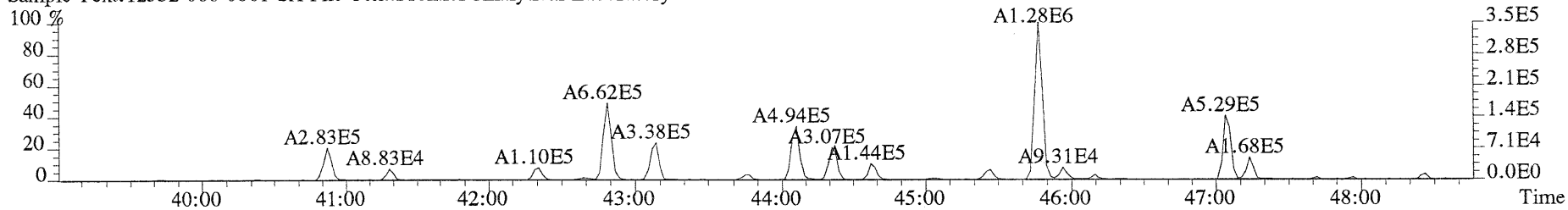
File:24JUL19Z #1-405 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



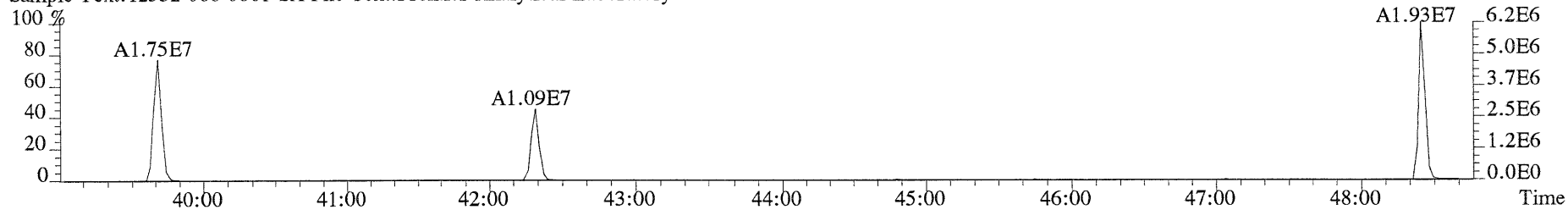
File:24JUL19Z #1-405 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:12 F:5 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



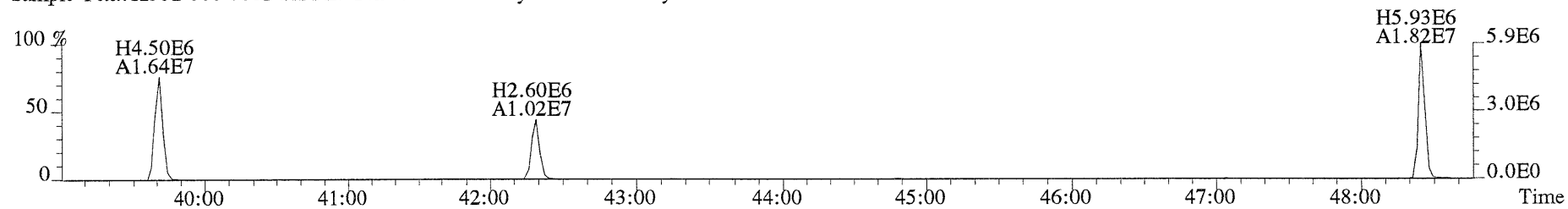
File:24JUL19Z #1-405 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:12 F:5 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



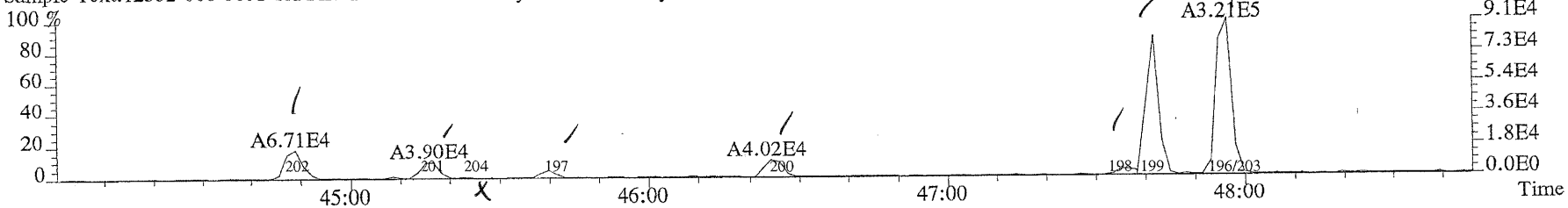
File:24JUL19Z #1-405 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



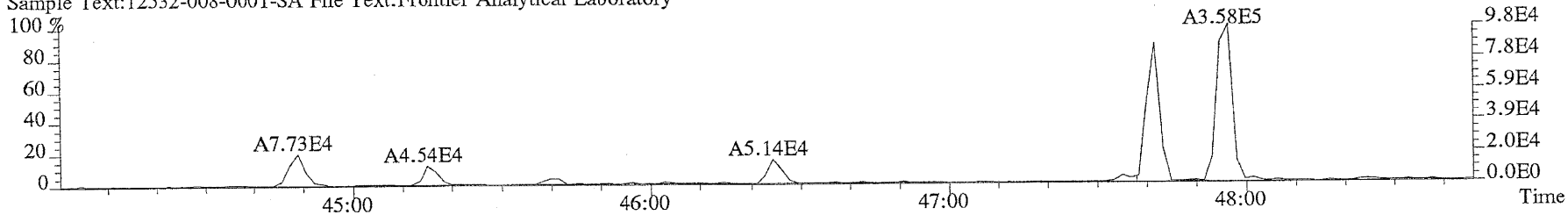
File:24JUL19Z #1-405 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



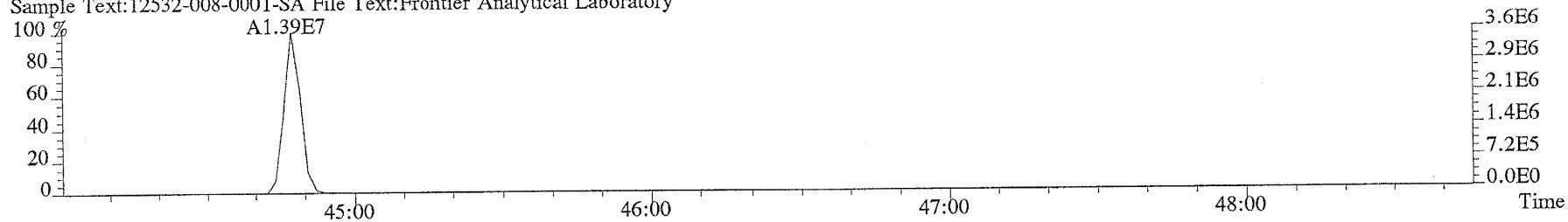
File:24JUL19Z #1-405 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



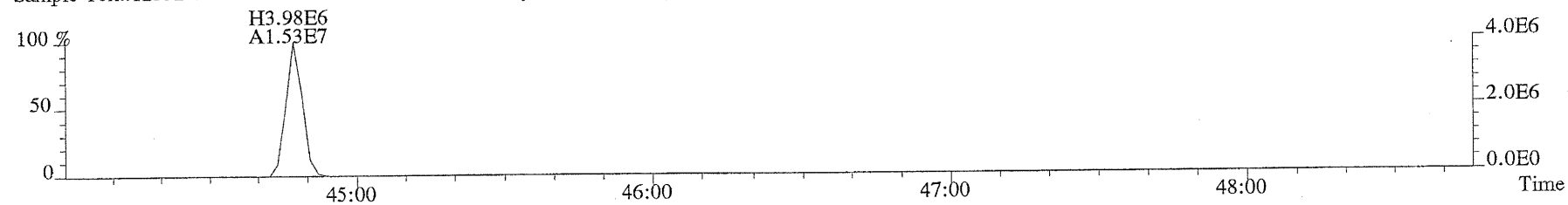
File:24JUL19Z #1-405 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



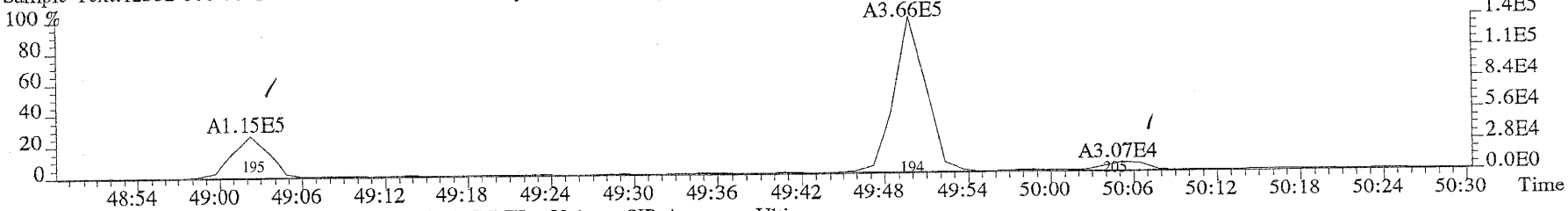
File:24JUL19Z #1-405 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



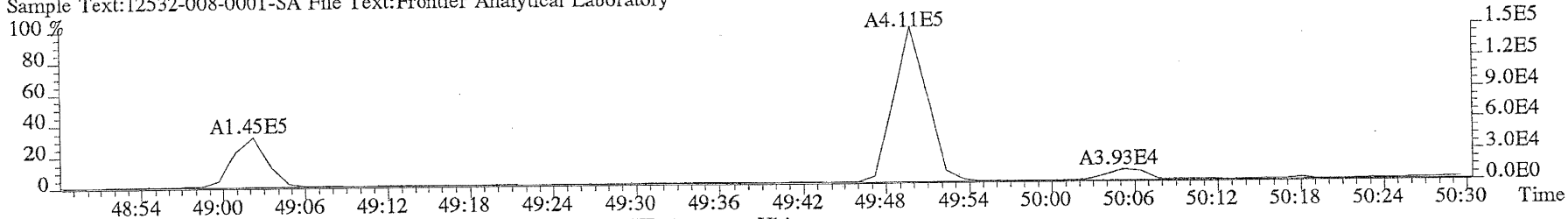
File:24JUL19Z #1-405 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



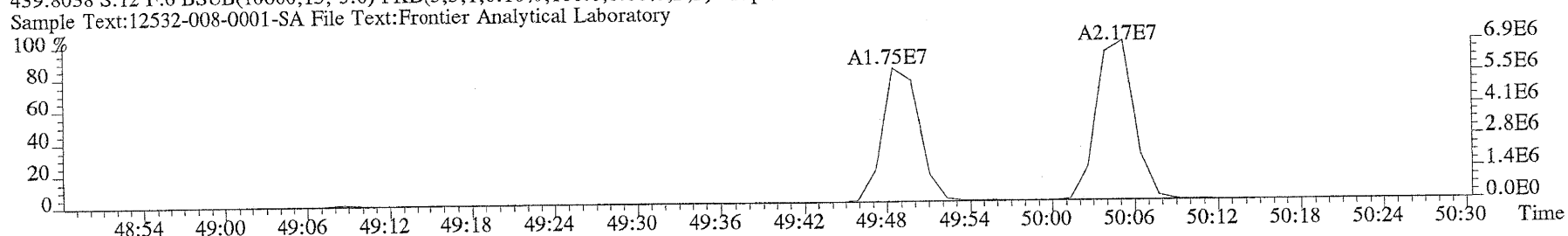
File:24JUL19Z #1-314 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



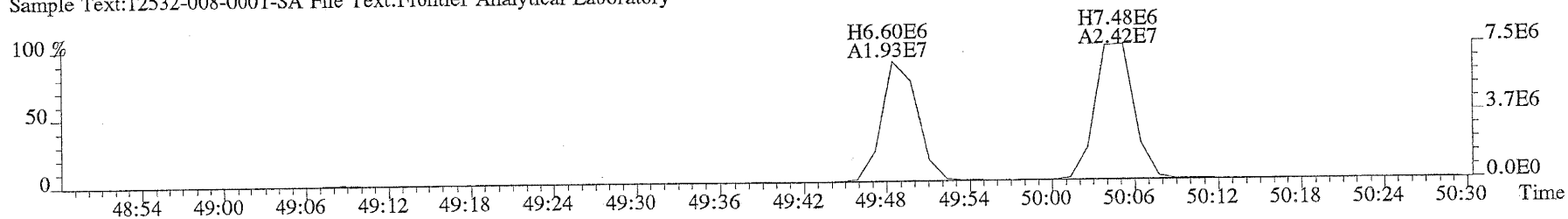
File:24JUL19Z #1-314 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



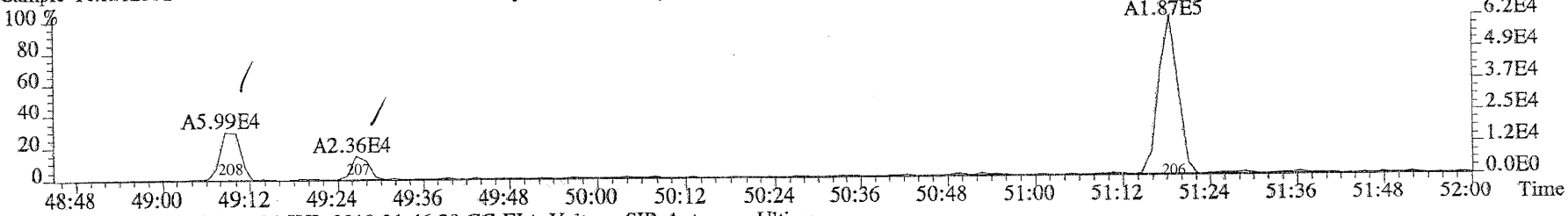
File:24JUL19Z #1-314 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



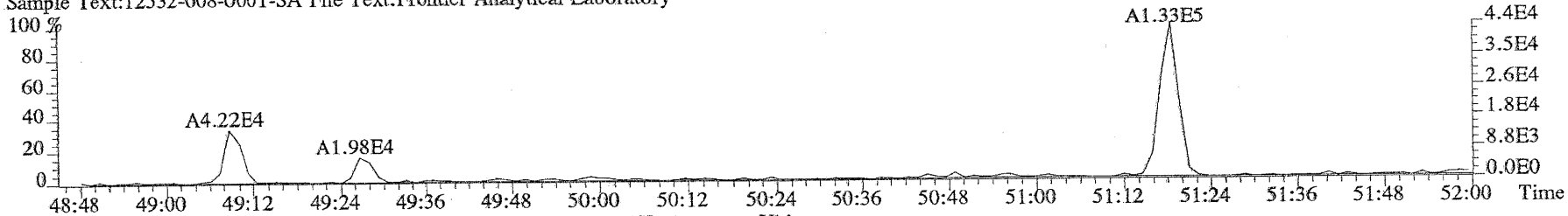
File:24JUL19Z #1-314 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



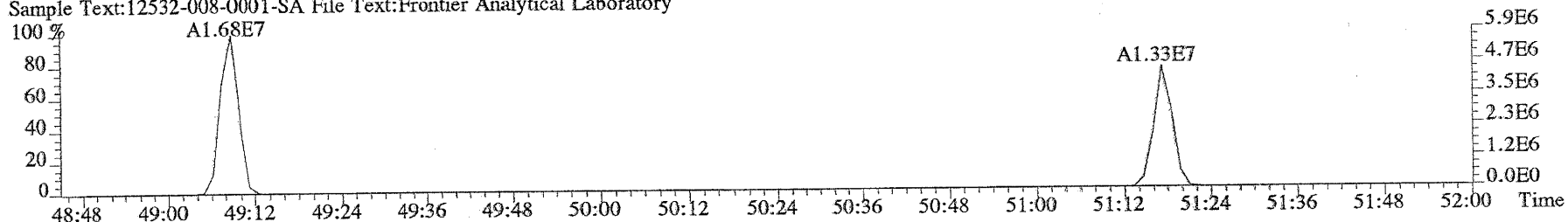
File:24JUL19Z #1-314 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



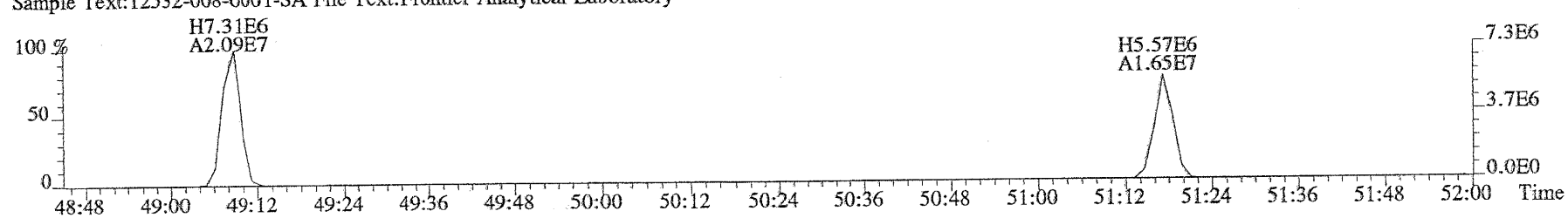
File:24JUL19Z #1-314 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-314 Acq:24-JUL-2019 21:46:30 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:12532-008-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-314 Acq:24-JUL-2019 21:46:30 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:12532-008-0001-SA File Text:Frontier Analytical Laboratory



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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
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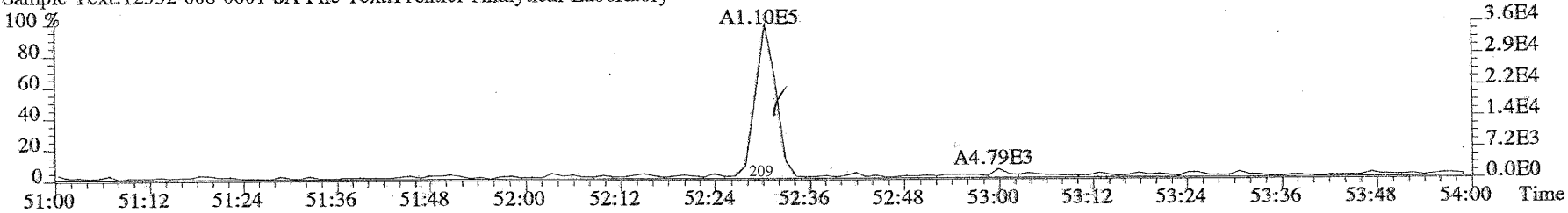
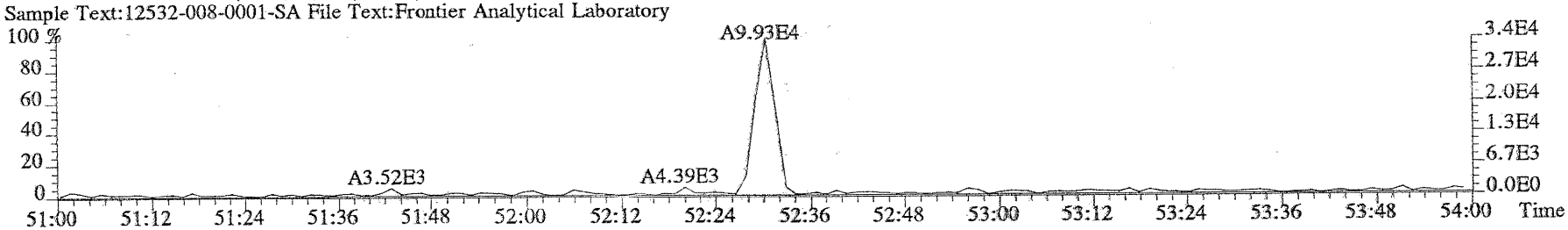


File:24JUL19Z #1-314 Acq:24-JUL-2019 21:46:30 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



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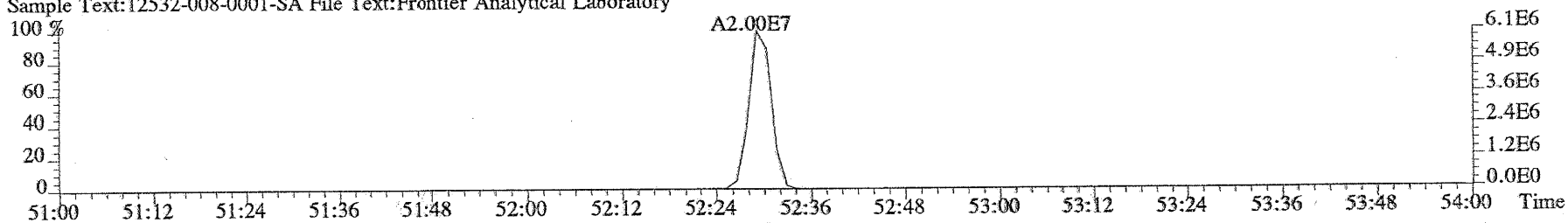
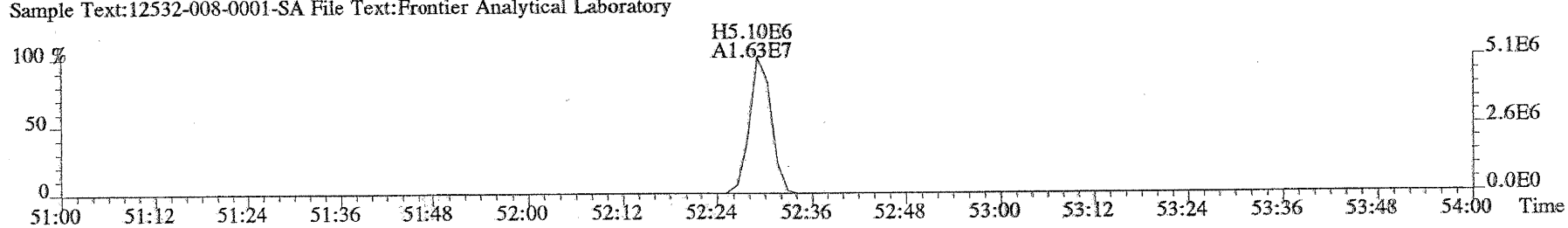
509.7229 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-008-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-314 Acq:24-JUL-2019 21:46:30 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:12532-008-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12532-009-0001-SA Filename: 24JUL19Z Sam:13 Acquired: 24-JUL-19 22:44:51 ICal: DAILYFAL4-7-24-19
Client ID: LDW-Y2-IN-ENR-CE-CORE ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 5.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.28e+07	3.18 y	14:33	1.19	177		-	-	*	
13C-PCB-1	1.21e+08	3.21 y	14:32	0.82	2180					109
PCB-2	2.27e+06	3.12 y	16:46	1.22	30.0		-	-	*	
PCB-3	1.11e+07	3.14 y	16:59	1.21	144		-	-	*	
13C-PCB-3	1.27e+08	3.26 y	16:58	0.85	2220					111
PCB-4	3.71e+06	1.55 y	18:14	1.14	77.8		-	-	*	
PCB-10	7.20e+05	1.48 y	18:17	1.32	9.77		-	-	*	
13C-PCB-4	8.38e+07	1.57 y	18:12	0.63	1980					99.2
PCB-9	1.81e+06	1.77 y	19:54	1.39	23.4		-	-	*	
PCB-7	2.23e+06	1.60 y	19:57	1.42	28.2		-	-	*	
PCB-6	5.08e+06	1.45 y	20:32	1.39	65.7		-	-	*	
PCB-8	1.68e+07	1.38 y	20:55	1.41	215		-	-	*	
PCB-5	*	* n	NotFnd	1.37	*		1860	3800	0.665	
PCB-14	*	* n	NotFnd	1.31	*		1860	3800	0.699	
PCB-11	9.02e+05	1.52 y	23:06	1.23	13.2		-	-	*	
PCB-13	2.15e+06	1.46 y	23:26	1.26	30.6		-	-	*	
PCB-12	1.41e+06	1.41 y	23:28	1.26	20.2		-	-	*	
PCB-15	1.10e+07	1.47 y	23:46	1.16	137		-	-	*	
13C-PCB-15	1.39e+08	1.59 y	23:44	0.96	2140					107
PCB-19	1.97e+05	1.17 y	22:07	1.16	5.35		-	-	*	
PCB-30	*	* n	NotFnd	1.82	*		5250	1830	1.10	
PCB-18	1.72e+06	1.10 y	23:40	1.20	45.3		-	-	*	
PCB-17	8.93e+05	1.16 y	23:49	1.30	21.7		-	-	*	
PCB-27	1.82e+05	1.11 y	24:21	1.77	3.26	J	-	-	*	
PCB-24	2.08e+05	1.17 y	24:22	1.77	3.72	J	-	-	*	
PCB-16	6.72e+05	1.18 y	24:50	1.48	14.3		-	-	*	
PCB-32	7.39e+05	1.07 y	24:51	1.48	15.7		-	-	*	
13C-PCB-19	6.33e+07	1.09 y	22:05	0.45	2090					105
13C-PCB-9	1.35e+08	1.60 y	19:53	-	15.8					
PCB-34	*	* n	NotFnd	1.16	*		1330	1110	0.499	
PCB-23	*	* n	NotFnd	1.33	*		1330	1110	0.437	
PCB-29	9.86e+04	1.12 y	25:57	1.33	1.34	J	-	-	*	
PCB-26	2.76e+06	1.09 y	26:08	1.27	39.0		-	-	*	
PCB-25	1.40e+06	1.12 y	26:17	1.22	20.7		-	-	*	
PCB-31	5.21e+06	1.05 y	26:37	1.20	78.2		-	-	*	
PCB-28	6.72e+06	1.08 y	26:43	1.55	78.0		-	-	*	
PCB-20	3.09e+06	1.09 y	27:19	1.23	45.2		-	-	*	Co-elute PCB 21/33
PCB-21	3.09e+06	1.09 y	27:19	1.23	45.2		-	-	*	Co-elute PCB 20/33
PCB-33	3.09e+06	1.09 y	27:19	1.23	45.2		-	-	*	Co-elute PCB 20/21
PCB-22	2.06e+06	1.14 y	27:43	1.37	27.0		-	-	*	
PCB-36	*	* n	NotFnd	1.27	*		1330	1110	0.458	
PCB-39	*	* n	NotFnd	1.24	*		1330	1110	0.469	
PCB-38	*	* n	NotFnd	1.27	*		1330	1110	0.457	
PCB-35	4.42e+05	0.97 y	30:03	1.12	7.11		-	-	*	
PCB-37	3.05e+06	1.17 y	30:30	1.17	47.0		-	-	*	
13C-PCB-37	1.11e+08	1.06 y	30:30	1.46	2220					111

PCB-54	*	*	n	NotFnd	1.26	*		1160	1860	0.527	
PCB-50	*	*	n	NotFnd	0.99	*		1160	1860	0.672	
PCB-53	6.83e+05	0.76	y	27:21	0.98	16.9		-	-	*	
PCB-51	1.58e+05	0.81	y	27:40	1.01	3.79	J	-	-	*	
PCB-45	3.28e+05	0.80	y	28:05	0.83	9.56		-	-	*	
PCB-46	1.29e+05	0.82	y	28:33	0.81	3.87	J	-	-	*	
PCB-52	2.21e+07	0.78	y	29:00	1.05	510		-	-	*	Co-elute PCB 69
PCB-69	2.21e+07	0.78	y	29:00	1.05	510		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.20	*		1160	1860	0.553	
PCB-43	7.30e+06	0.79	y	29:18	0.91	195		-	-	*	Co-elute PCB 49
PCB-49	7.30e+06	0.79	y	29:18	0.91	195		-	-	*	Co-elute PCB 43
PCB-47	2.04e+06	0.81	y	29:30	0.92	53.8		-	-	*	
PCB-48	8.34e+05	0.76	y	29:37	1.19	17.0		-	-	*	Co-elute PCB 75
PCB-75	8.34e+05	0.76	y	29:37	1.19	17.0		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.20	*		1160	1860	0.553	
PCB-62	*	*	n	NotFnd	1.16	*		1160	1860	0.574	
PCB-44	8.08e+06	0.81	y	30:18	0.78	252		-	-	*	
PCB-42	1.57e+06	0.81	y	30:33	1.01	37.8		-	-	*	Co-elute PCB 59
PCB-59	1.57e+06	0.81	y	30:33	1.01	37.8		-	-	*	Co-elute PCB 42
PCB-72	5.89e+06	0.78	y	31:11	1.14	125		-	-	*	Co-elute PCB 41/71/64
PCB-41	5.89e+06	0.78	y	31:11	1.14	125		-	-	*	Co-elute PCB 72/71/64
PCB-71	5.89e+06	0.78	y	31:11	1.14	125		-	-	*	Co-elute PCB 72/41/64
PCB-64	5.89e+06	0.78	y	31:11	1.14	125		-	-	*	Co-elute PCB 72/41/71
PCB-68	2.18e+05	0.83	y	31:26	1.33	4.00		-	-	*	
PCB-40	5.42e+05	0.79	y	31:38	0.71	18.6		-	-	*	
PCB-57	1.05e+05	0.79	y	31:52	1.21	2.09	J	-	-	*	
PCB-67	2.67e+05	0.78	y	32:08	1.19	5.46		-	-	*	
PCB-58	*	*	n	NotFnd	1.22	*		1160	1860	0.546	
PCB-63	3.50e+05	0.77	y	32:23	1.22	6.96		-	-	*	
PCB-74	5.29e+06	0.79	y	32:39	1.22	106		-	-	*	
PCB-61	1.77e+07	0.78	y	32:50	1.10	390		-	-	*	Co-elute PCB 70
PCB-70	1.77e+07	0.78	y	32:50	1.10	390		-	-	*	Co-elute PCB 61
PCB-76	1.07e+07	0.80	y	33:03	1.25	208		-	-	*	Co-elute PCB 66
PCB-66	1.07e+07	0.80	y	33:03	1.25	208		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.40	*		1160	1860	0.477	
PCB-55	3.86e+05	0.84	y	33:29	1.22	7.67		-	-	*	
13C-PCB-54	8.23e+07	0.82	y	25:38	1.21	1980					98.9
PCB-104	*	*	n	NotFnd	1.12	*		540	652	0.389	
PCB-96	1.57e+05	1.68	y	31:28	1.06	4.58		-	-	*	
PCB-103	1.89e+05	1.56	y	31:52	0.86	6.77		-	-	*	
PCB-100	8.58e+04	1.33	y	32:11	0.86	3.08	J	-	-	*	
PCB-94	9.51e+04	1.39	y	32:36	0.72	4.08		-	-	*	
PCB-98	*	*	n	NotFnd	0.78	*		540	652	0.556	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.78	*		540	652	0.556	Co-elute PCB 98
PCB-95	2.01e+07	1.55	y	33:06	0.73	847		-	-	*	
PCB-93	*	*	n	NotFnd	0.72	*		540	652	0.601	
PCB-88	3.09e+06	1.53	y	33:29	0.84	113		-	-	*	Co-elute PCB 91
PCB-91	3.09e+06	1.53	y	33:29	0.84	113		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.95	*		540	652	0.458	
13C-PCB-104	6.48e+07	1.57	y	30:07	1.00	1880					94.0
13C-PCB-28	1.20e+08	1.05	y	26:42	1.75	2010					100
13C-PCB-52	6.86e+07	0.81	y	28:59	-	17.2					

PCB-56	4.96e+06	0.79	y	34:00	1.14	115		-	-	*	Co-elute PCB 60
PCB-60	4.96e+06	0.79	y	34:00	1.14	115		-	-	*	Co-elute PCB 56
PCB-79	6.96e+05	0.75	y	34:60	1.24	14.8		-	-	*	
PCB-78	1.97e+05	0.78	y	35:35	1.20	4.34		-	-	*	
PCB-81	1.25e+06	0.73	y	36:11	1.21	27.2		-	-	*	
13C-PCB-81	7.54e+07	0.80	y	36:08	1.53	2130					106
PCB-77	2.10e+06	0.80	y	36:44	1.04	52.6		-	-	*	
13C-PCB-77	7.65e+07	0.81	y	36:42	1.54	2140					107
PCB-155	*	*	n	NotFnd	1.05	*		384	264	0.199	
PCB-150	5.30e+04	1.32	y	35:26	0.95	1.88	J	-	-	*	
PCB-152	4.65e+04	1.23	y	35:53	0.93	1.70	J	-	-	*	
PCB-145	*	*	n	NotFnd	0.93	*		384	264	0.224	
PCB-136	3.96e+06	1.25	y	36:36	0.84	161		-	-	*	
PCB-148	*	*	n	NotFnd	0.75	*		384	264	0.280	
PCB-154	2.85e+05	1.12	y	37:10	0.77	12.5		-	-	*	
13C-PCB-155	5.91e+07	1.30	y	34:13	1.35	1880					94.0
13C-PCB-111	5.02e+07	1.61	y	36:17	1.21	1790					89.3
13C-PCB-101	4.64e+07	1.62	y	34:40	-	14.5					
PCB-84	1.15e+07	1.57	y	34:19	0.85	432		-	-	*	Co-elute PCB 92
PCB-92	1.15e+07	1.57	y	34:19	0.85	432		-	-	*	Co-elute PCB 84
PCB-89	2.58e+05	1.54	y	34:30	0.79	10.3		-	-	*	
PCB-90	3.47e+07	1.59	y	34:41	0.92	1200		-	-	*	Co-elute PCB 101
PCB-101	3.47e+07	1.59	y	34:41	0.92	1200		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*		1380	855	0.709	
PCB-99	1.44e+07	1.58	y	34:60	0.96	478		-	-	*	
PCB-119	7.19e+05	1.72	y	35:25	1.17	19.5		-	-	*	
PCB-83	1.39e+06	1.57	y	35:35	0.92	47.9		-	-	*	Co-elute PCB 112
PCB-112	1.39e+06	1.57	y	35:35	0.92	47.9		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.09	*		1380	855	0.712	
PCB-97	8.78e+06	1.57	y	35:54	0.75	372		-	-	*	
PCB-86	*	*	n	NotFnd	0.83	*		1380	855	0.933	
PCB-125	1.50e+07	1.58	y	36:11	1.00	477		-	-	*	Co-elute PCB 87/117
PCB-87	1.50e+07	1.58	y	36:11	1.00	477		-	-	*	Co-elute PCB 125/117
PCB-117	1.50e+07	1.58	y	36:11	1.00	477		-	-	*	Co-elute PCB 125/87
PCB-111	8.56e+05	1.51	y	36:20	1.12	24.2		-	-	*	Co-elute PCB 115
PCB-115	8.56e+05	1.51	y	36:20	1.12	24.2		-	-	*	Co-elute PCB 111
PCB-85	5.05e+06	1.54	y	36:26	0.98	164		-	-	*	Co-elute PCB 116
PCB-116	5.05e+06	1.54	y	36:26	0.98	164		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.21	*		1380	855	0.640	
PCB-110	4.56e+07	1.57	y	36:47	1.12	1290		-	-	*	
PCB-82	2.67e+06	1.61	y	37:24	0.65	130		-	-	*	
PCB-124	2.15e+06	1.57	y	38:02	1.16	58.8		-	-	*	
PCB-108	2.96e+06	1.55	y	38:12	1.12	84.2		-	-	*	Co-elute PCB 107
PCB-107	2.96e+06	1.55	y	38:12	1.12	84.2		-	-	*	Co-elute PCB 108
PCB-123	7.48e+05	1.51	y	38:20	0.97	25.7		-	-	*	
13C-PCB-123	6.04e+07	1.57	y	38:20	1.48	1550					77.5
PCB-118	4.26e+07	1.56	y	38:32	1.06	1230		-	-	*	Co-elute PCB 106
PCB-106	4.26e+07	1.56	y	38:32	1.06	1230		-	-	*	Co-elute PCB 118
13C-PCB-118	6.58e+07	1.59	y	38:30	1.54	1620					81.1
PCB-114	1.16e+06	1.56	y	39:08	1.07	34.4		-	-	*	
13C-PCB-114	6.33e+07	1.60	y	39:06	1.46	1640					82.2
PCB-122	5.65e+05	1.54	y	39:16	1.09	16.4		-	-	*	
PCB-105	1.64e+07	1.55	y	39:57	1.14	461		-	-	*	
13C-PCB-105	6.24e+07	1.59	y	39:56	1.40	1700					85.0

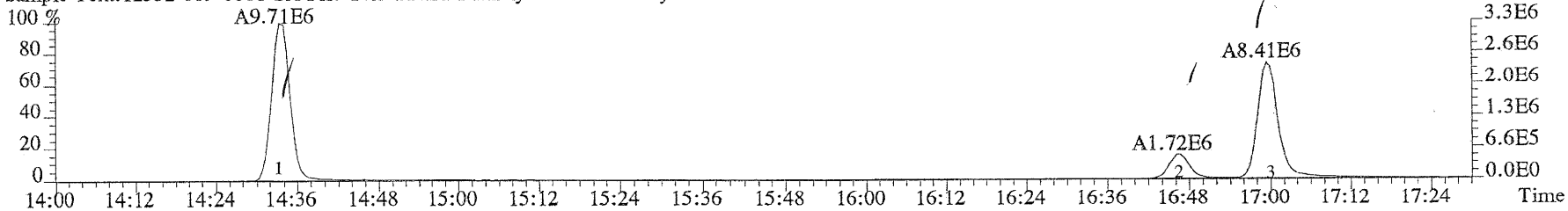
PCB-127	*	*	n	NotFnd	1.00	*	1280	1040	0.806	
PCB-126	4.74e+05	1.52	y	42:04	1.10	13.9	-	-	*	
13C-PCB-126	6.21e+07	1.56	y	42:02	1.32	1780				89.2
PCB-151	4.25e+06	1.25	y	37:47	1.10	149	-	-	*	
PCB-135	3.28e+06	1.31	y	37:59	1.01	125	-	-	*	
PCB-144	1.50e+06	1.17	y	38:05	1.25	46.4	-	-	*	
PCB-147	7.25e+05	1.32	y	38:13	1.15	24.3	-	-	*	
PCB-139	2.05e+07	1.24	y	38:27	1.18	673	-	-	*	Co-elute PCB 149
PCB-149	2.05e+07	1.24	y	38:27	1.18	673	-	-	*	Co-elute PCB 139
PCB-140	2.14e+05	1.15	y	38:38	1.16	7.13	-	-	*	
PCB-143	1.62e+06	1.27	y	39:05	0.96	65.2	-	-	*	Co-elute PCB 134
PCB-134	1.62e+06	1.27	y	39:05	0.96	65.2	-	-	*	Co-elute PCB 143
PCB-131	8.91e+05	1.24	y	39:19	0.94	36.6	-	-	*	Co-elute PCB 133
PCB-133	8.91e+05	1.24	y	39:19	0.94	36.6	-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.99	*	1010	840	0.760	
PCB-165	4.15e+06	1.25	y	39:41	1.26	128	-	-	*	Co-elute PCB 146
PCB-146	4.15e+06	1.25	y	39:41	1.26	128	-	-	*	Co-elute PCB 165
PCB-161	1.02e+07	1.23	y	39:57	1.15	343	-	-	*	Co-elute PCB 132
PCB-132	1.02e+07	1.23	y	39:57	1.15	343	-	-	*	Co-elute PCB 161
PCB-153	2.60e+07	1.25	y	40:04	1.27	788	-	-	*	
PCB-168	*	*	n	NotFnd	1.35	*	1010	840	0.554	
PCB-141	4.98e+06	1.23	y	40:47	1.02	189	-	-	*	
PCB-137	2.09e+06	1.25	y	41:08	0.94	85.8	-	-	*	
PCB-130	2.01e+06	1.26	y	41:15	0.89	87.1	-	-	*	
PCB-138	3.76e+07	1.27	y	41:34	1.25	1160	-	-	*	Co-elute PCB 163/164
PCB-163	3.76e+07	1.27	y	41:34	1.25	1160	-	-	*	Co-elute PCB 138/164
PCB-164	3.76e+07	1.27	y	41:34	1.25	1160	-	-	*	Co-elute PCB 138/163
PCB-158	5.29e+06	1.22	y	41:47	1.33	153	-	-	*	Co-elute PCB 160
PCB-160	5.29e+06	1.22	y	41:47	1.33	153	-	-	*	Co-elute PCB 158
PCB-129	1.75e+06	1.25	y	42:02	0.85	79.3	-	-	*	
PCB-166	2.40e+05	1.08	y	42:30	1.28	7.23	-	-	*	
PCB-159	1.46e+05	1.35	y	42:50	1.37	4.13	-	-	*	
PCB-128	6.36e+06	1.23	y	43:03	1.08	228	-	-	*	Co-elute PCB 162
PCB-162	6.36e+06	1.23	y	43:03	1.08	228	-	-	*	Co-elute PCB 128
PCB-167	2.06e+06	1.27	y	43:26	1.18	67.8	-	-	*	
13C-PCB-167	5.18e+07	1.28	y	43:25	1.13	1750				87.4
PCB-156	4.96e+06	1.19	y	44:39	1.24	156	-	-	*	
13C-PCB-156	5.12e+07	1.28	y	44:37	1.06	1830				91.5
PCB-157	1.23e+06	1.18	y	44:53	1.18	40.6	-	-	*	
13C-PCB-157	5.16e+07	1.30	y	44:53	1.07	1840				91.8
PCB-169	*	*	n	NotFnd	1.12	*	1010	840	0.604	
13C-PCB-169	5.26e+07	1.30	y	46:45	1.00	2000				100

FAL ID: 12532-009-0001-SA Filename: 24JUL19Z Sam:13 Acquired: 24-JUL-19 22:44:51 ICal: DAILYFAL4-7-24-19
Client ID: LDW-Y2-IN-ENR-CE-CORE ConCal: ST07241921 EndCal: ST07241922
Results: 12532 GC Column: DB1MS Amount: 5.000

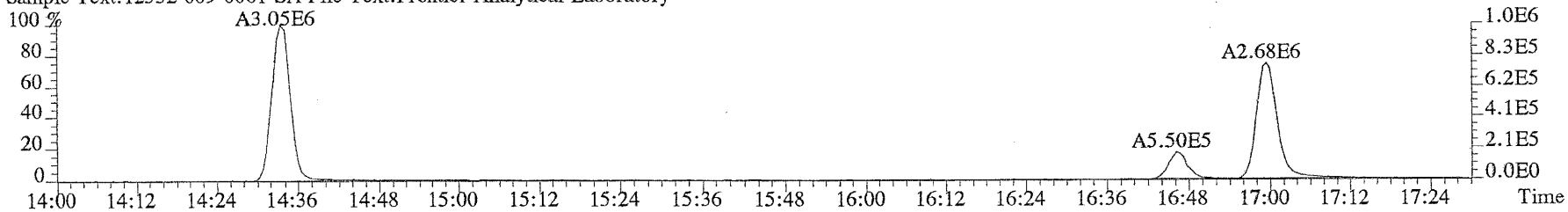
PCB-188	*	*	n	NotFnd	1.03	*		836	380	0.492	
13C-PCB-188	5.02e+07	1.05	y	39:41	1.26	1510					75.5
PCB-184	*	*	n	NotFnd	1.18	*		836	380	0.381	
PCB-179	1.34e+06	1.09	y	40:53	1.11	48.3		-	-	*	
PCB-176	4.85e+05	1.07	y	41:19	1.08	18.1		-	-	*	
PCB-186	*	*	n	NotFnd	1.08	*		836	380	0.417	
PCB-178	4.63e+05	1.09	y	42:20	0.74	25.0		-	-	*	
PCB-175	1.29e+05	1.08	y	42:40	0.76	6.84		-	-	*	
PCB-187	2.79e+06	1.05	y	42:50	0.82	137		-	-	*	Co-elute PCB 182
PCB-182	2.79e+06	1.05	y	42:50	0.82	137		-	-	*	Co-elute PCB 187
PCB-183	1.65e+06	1.10	y	43:08	0.80	83.5		-	-	*	
PCB-185	2.65e+05	0.93	y	43:46	0.71	15.1		-	-	*	
PCB-174	2.56e+06	1.05	y	44:06	0.73	141		-	-	*	
PCB-181	*	*	n	NotFnd	0.66	*		836	380	0.685	
PCB-177	1.48e+06	1.08	y	44:22	0.64	92.6		-	-	*	
PCB-171	9.08e+05	1.09	y	44:39	0.69	53.2		-	-	*	
PCB-173	8.25e+04	0.95	y	45:03	0.62	5.38		-	-	*	
PCB-172	4.69e+05	1.02	y	45:26	0.64	29.7		-	-	*	
PCB-192	*	*	n	NotFnd	0.84	*		836	380	0.537	
PCB-180	5.28e+06	1.07	y	45:48	0.65	329		-	-	*	
PCB-193	3.84e+05	1.02	y	45:58	0.90	17.3		-	-	*	
PCB-191	1.75e+05	1.14	y	46:09	0.83	8.44		-	-	*	
PCB-170	2.94e+06	1.04	y	47:05	0.60	197		-	-	*	
PCB-190	8.30e+05	1.09	y	47:15	0.85	39.5		-	-	*	
PCB-189	2.15e+05	1.00	y	48:26	1.06	8.25		-	-	*	
13C-PCB-189	4.92e+07	1.06	y	48:26	0.96	1950					97.4
PCB-202	2.01e+05	0.82	y	44:49	1.03	9.81		-	-	*	
PCB-201	1.29e+05	1.01	y	45:17	1.09	5.93		-	-	*	
PCB-204	*	*	n	NotFnd	1.05	*		396	476	0.459	
PCB-197	4.36e+04	1.00	y	45:40	1.09	2.00	J	-	-	*	
PCB-200	1.34e+05	0.92	y	46:24	1.04	6.46		-	-	*	
PCB-198	4.14e+04	0.99	y	47:36	0.70	2.95	J	-	-	*	
PCB-199	7.61e+05	0.86	y	47:41	0.70	54.7		-	-	*	
PCB-203	9.29e+05	0.94	y	47:56	0.83	56.1		-	-	*	Co-elute PCB 196
PCB-196	9.29e+05	0.94	y	47:56	0.83	56.1		-	-	*	Co-elute PCB 203
13C-PCB-202	3.99e+07	0.91	y	44:49	0.89	1710					85.6
13C-PCB-178	2.97e+07	1.07	y	42:19	0.78	1450					72.3
13C-PCB-138	5.26e+07	1.30	y	46:45	-	19.3					
PCB-195	3.99e+05	0.93	y	49:02	0.67	20.2		-	-	*	
PCB-194	1.15e+06	0.88	y	49:51	0.84	46.9		-	-	*	
PCB-205	9.00e+04	0.91	y	50:06	1.06	2.90	J	-	-	*	
13C-PCB-205	5.87e+07	0.89	y	50:05	1.30	2080					104
PCB-208	1.40e+05	1.23	y	49:10	1.09	5.39		-	-	*	
13C-PCB-208	4.79e+07	0.82	y	49:08	1.05	2100					105
PCB-207	6.25e+04	1.22	y	49:28	1.22	2.34	J	-	-	*	
PCB-206	4.31e+05	1.36	y	51:19	1.08	19.9		-	-	*	
13C-PCB-206	3.99e+07	0.80	y	51:18	0.89	2060					103
PCB-209	2.17e+05	1.15	y	52:30	1.14	7.77		-	-	*	
13C-PCB-209	4.89e+07	1.22	y	52:29	1.10	2030					102
13C-PCB-194	4.35e+07	0.91	y	49:49	-	16.6					

Analyst: [illegible] Date: 7/05/19

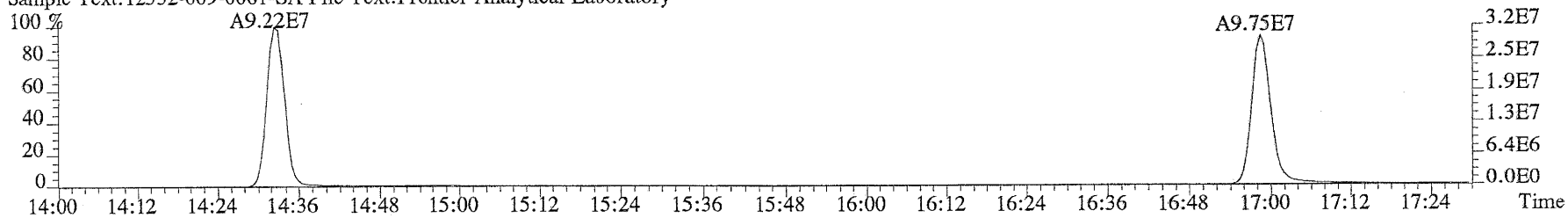
File:24JUL19Z #1-783 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



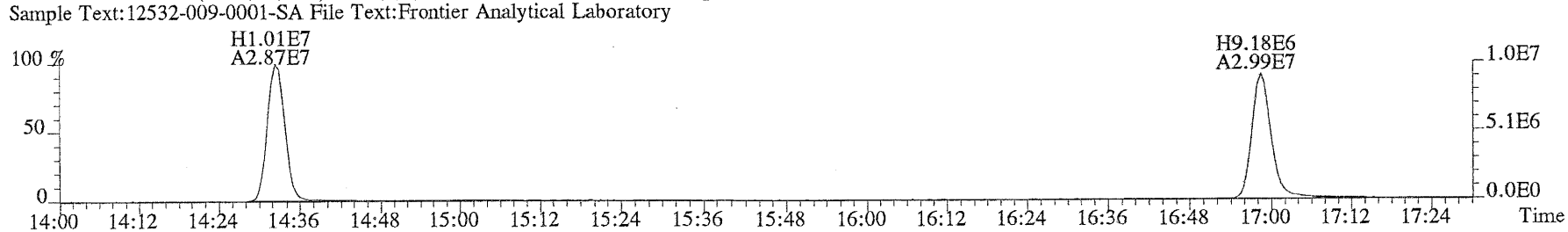
File:24JUL19Z #1-783 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



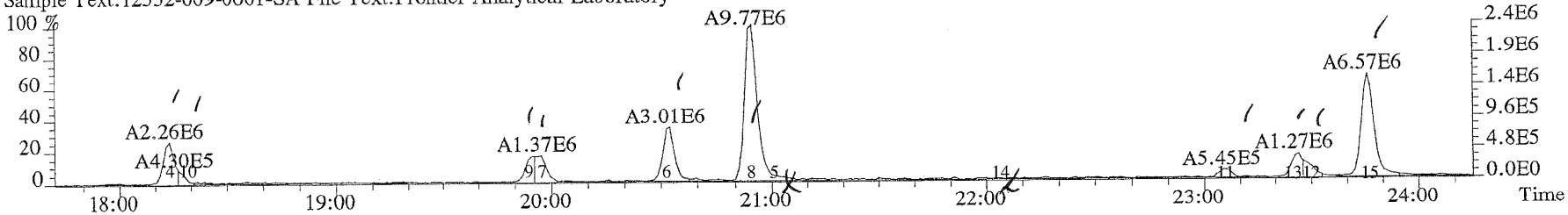
File:24JUL19Z #1-783 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



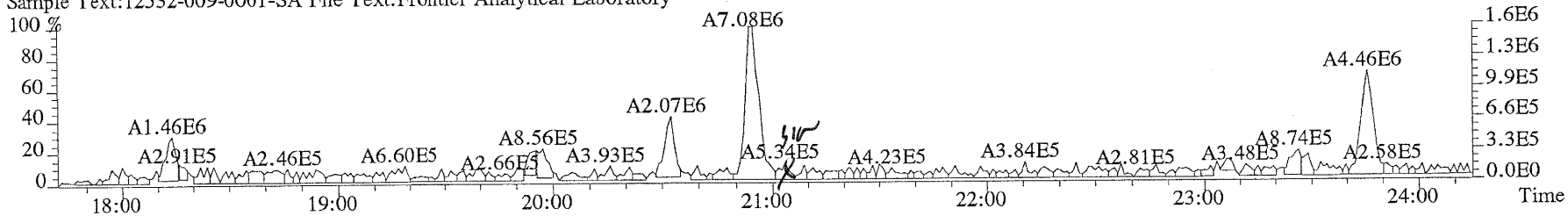
File:24JUL19Z #1-783 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



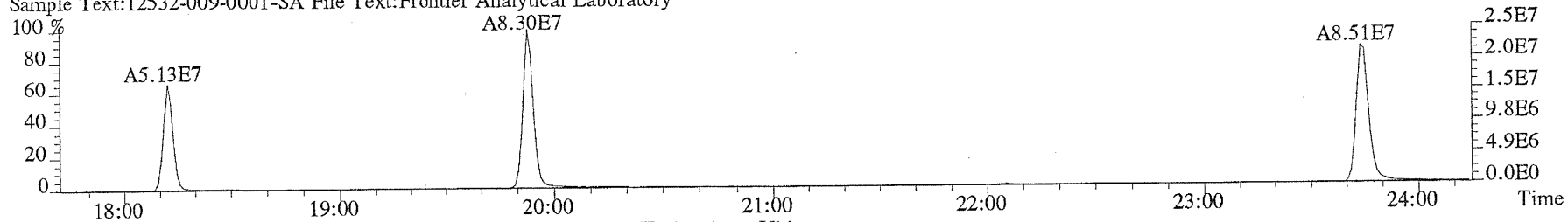
File:24JUL19Z #1-520 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



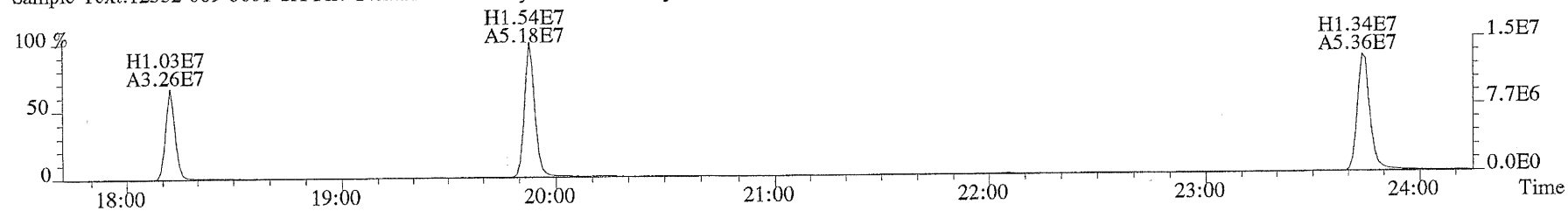
File:24JUL19Z #1-520 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



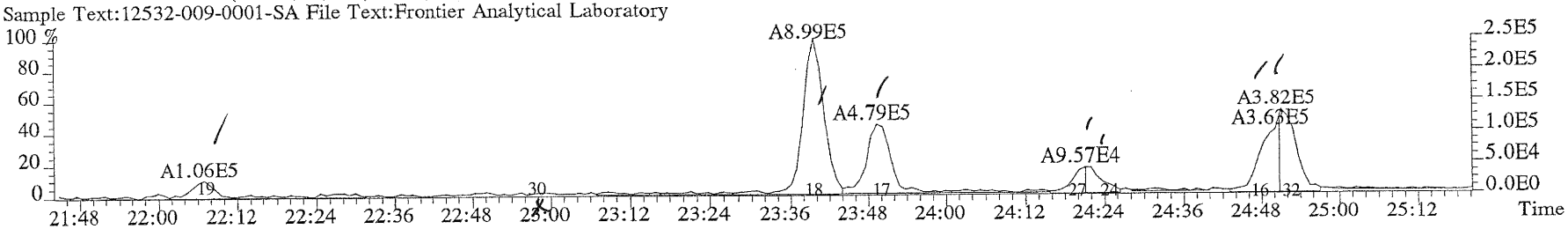
File:24JUL19Z #1-520 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



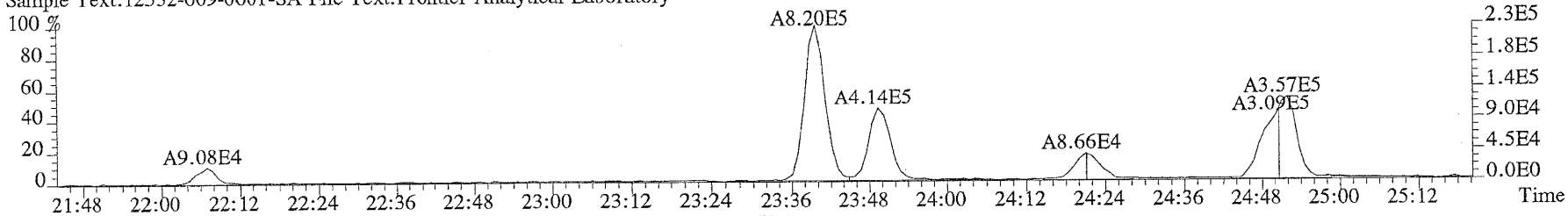
File:24JUL19Z #1-520 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



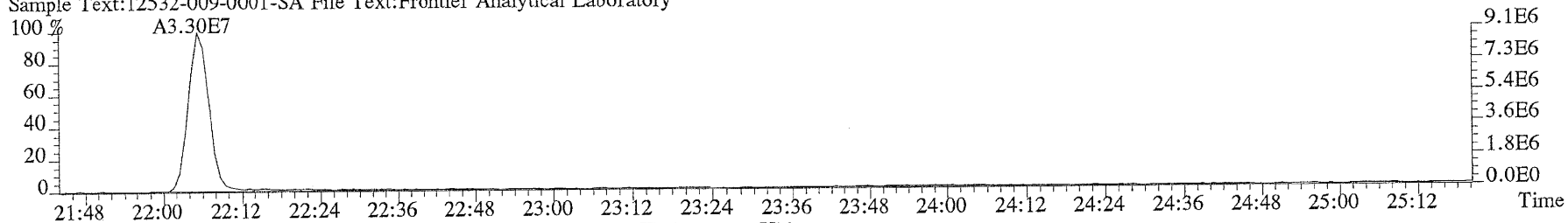
File:24JUL19Z #1-520 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



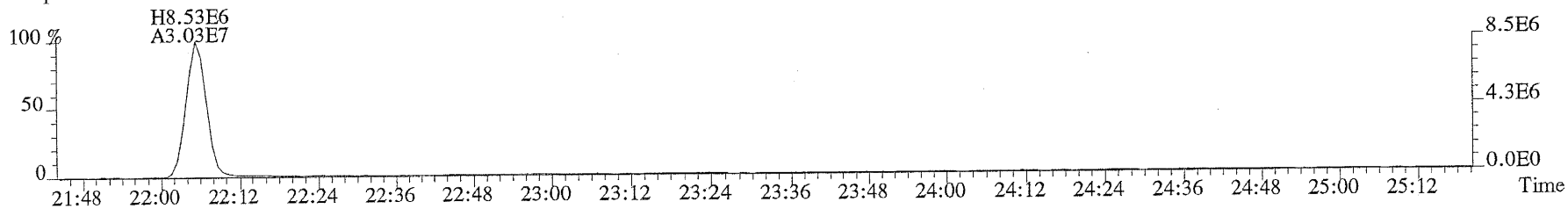
File:24JUL19Z #1-520 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



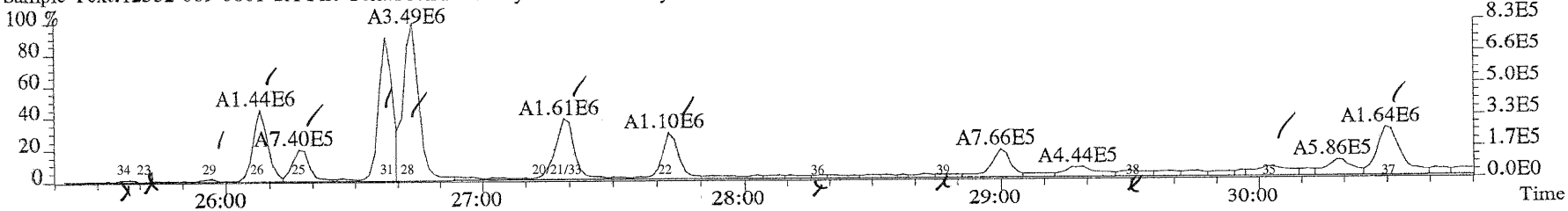
File:24JUL19Z #1-520 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



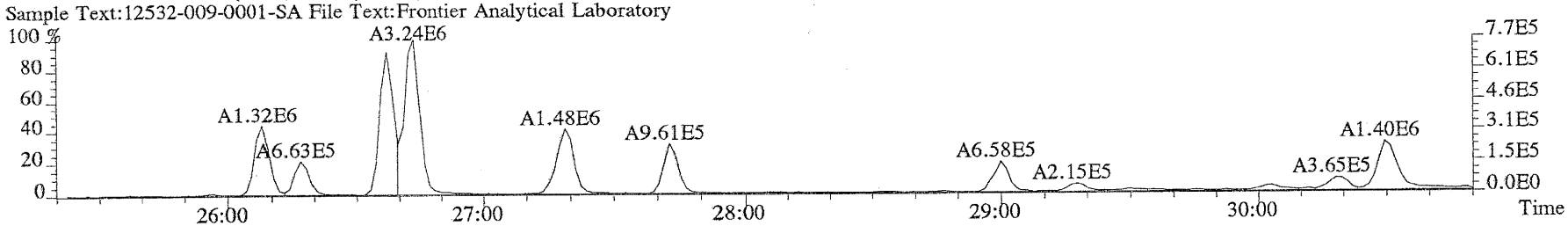
File:24JUL19Z #1-520 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



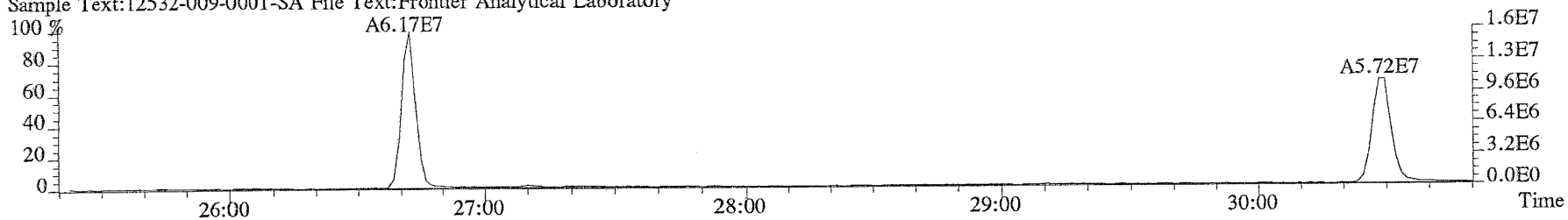
File:24JUL19Z #1-401 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



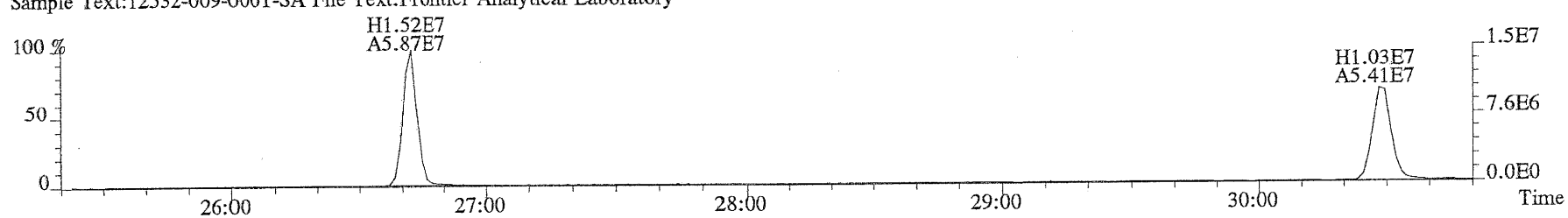
File:24JUL19Z #1-401 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



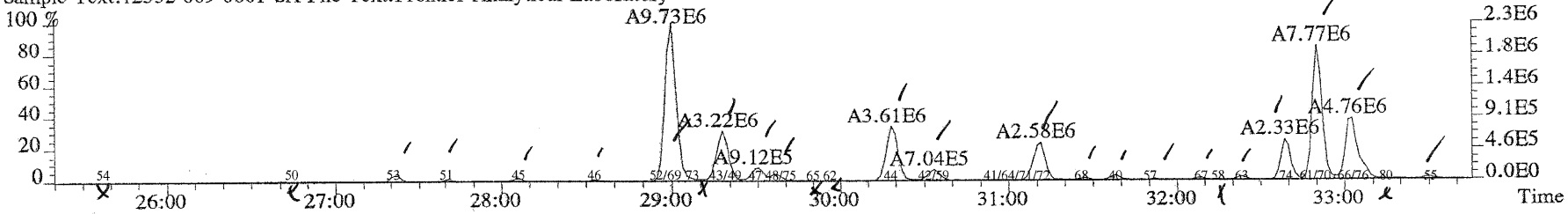
File:24JUL19Z #1-401 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



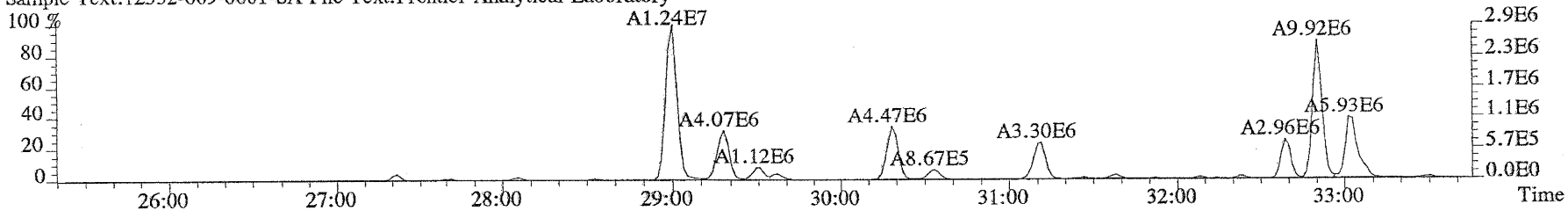
File:24JUL19Z #1-401 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



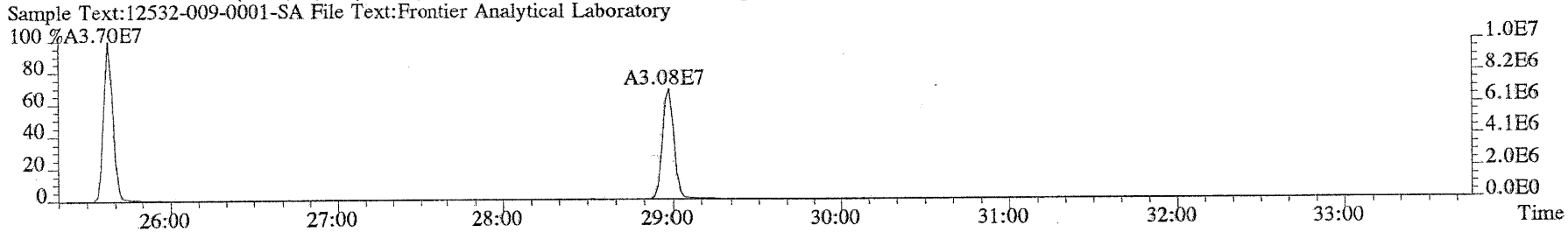
File:24JUL19Z #1-401 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



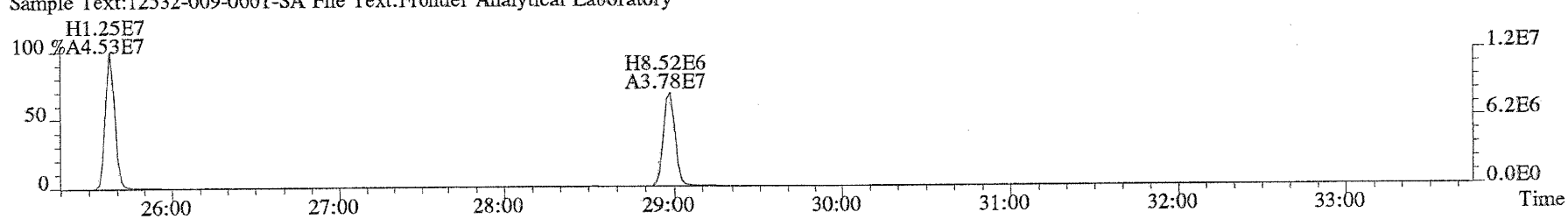
File:24JUL19Z #1-401 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



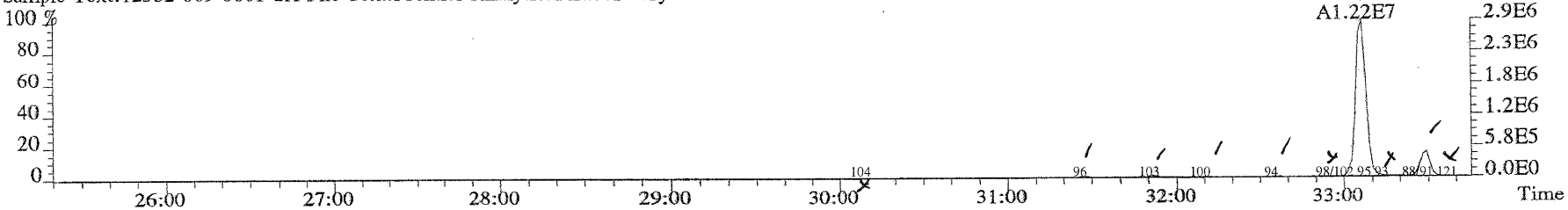
File:24JUL19Z #1-401 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-401 Acq:24-JUL-2019 22:44:51 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:12532-009-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-401 Acq:24-JUL-2019 22:44:51 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:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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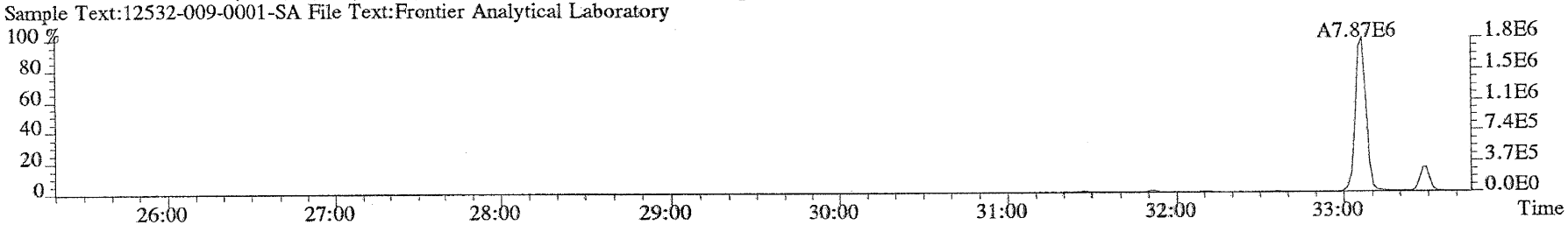
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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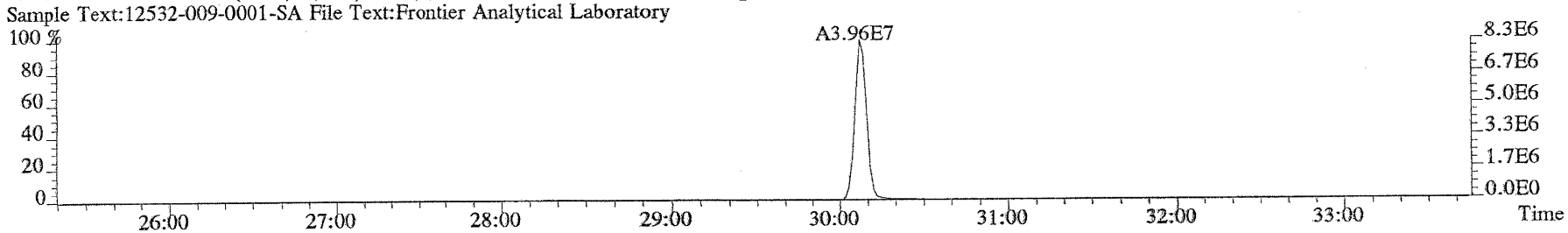
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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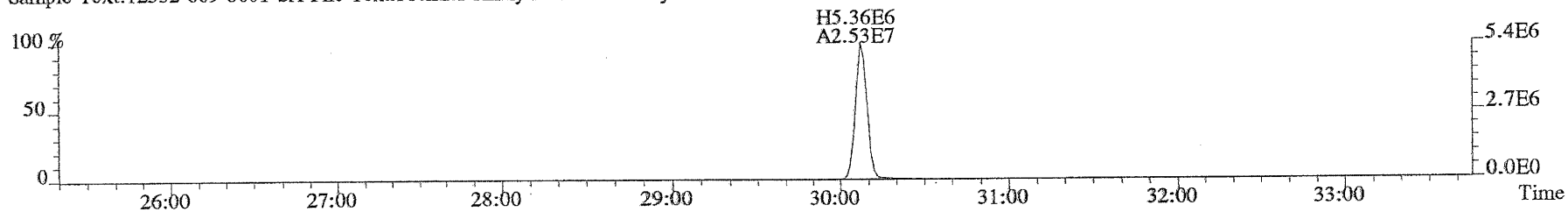
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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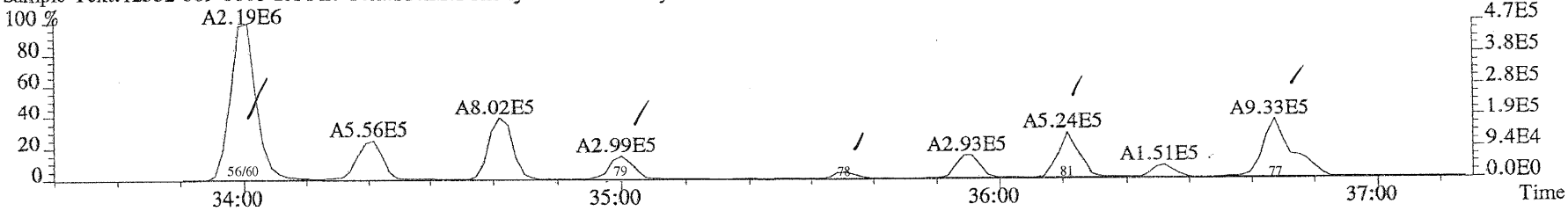
289.9224 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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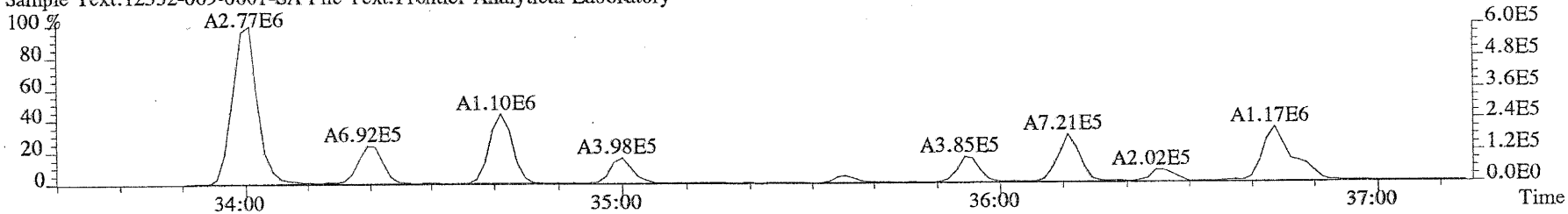
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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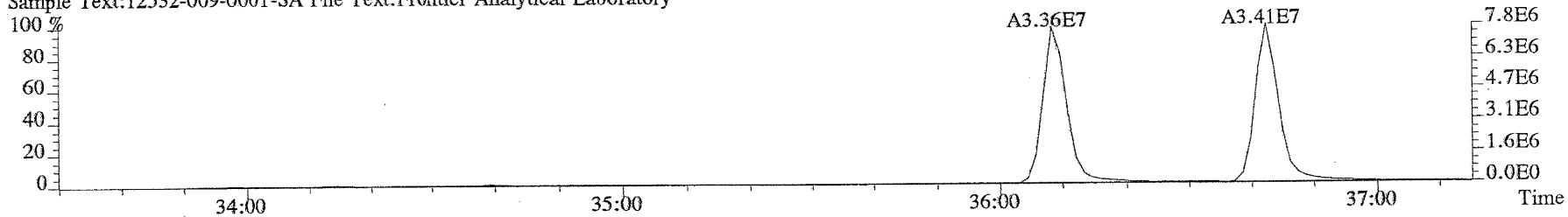
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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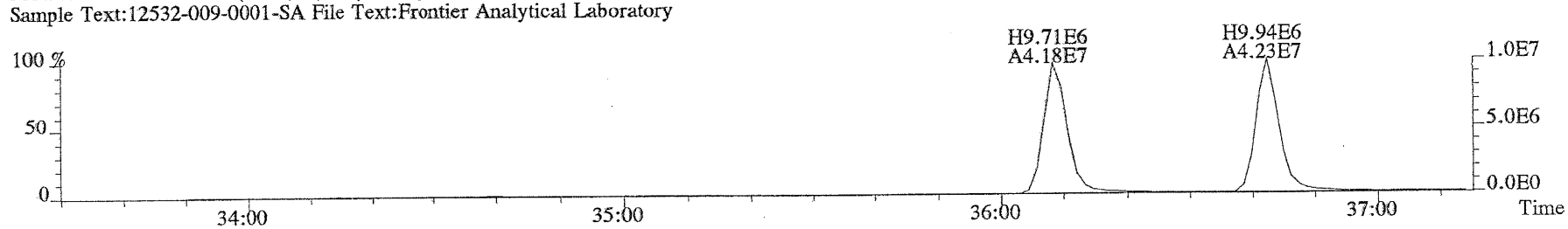
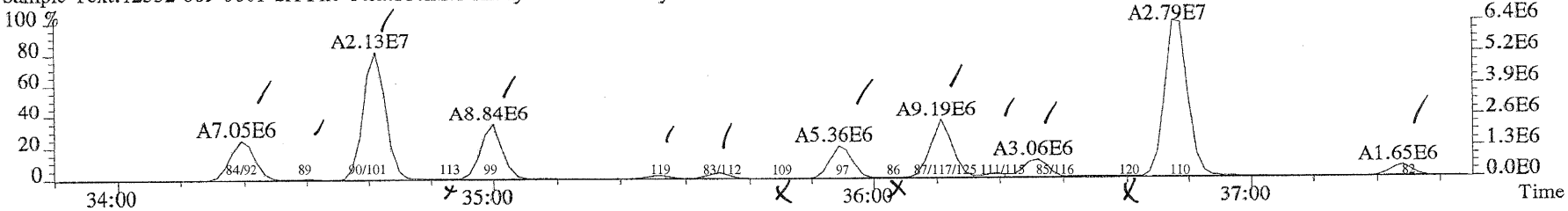
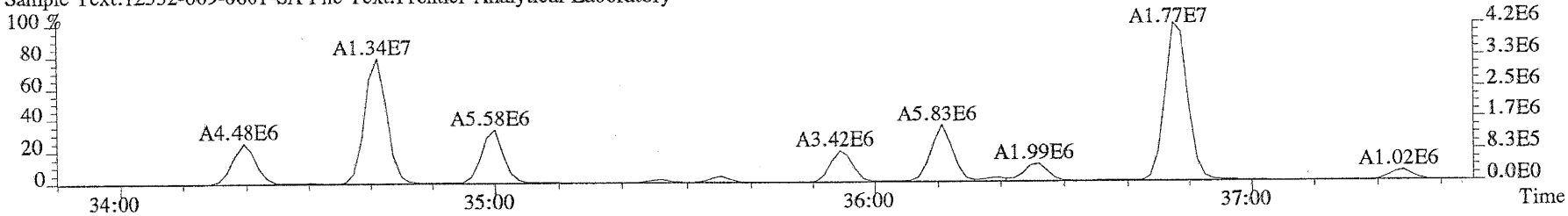
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-181 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-181 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 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:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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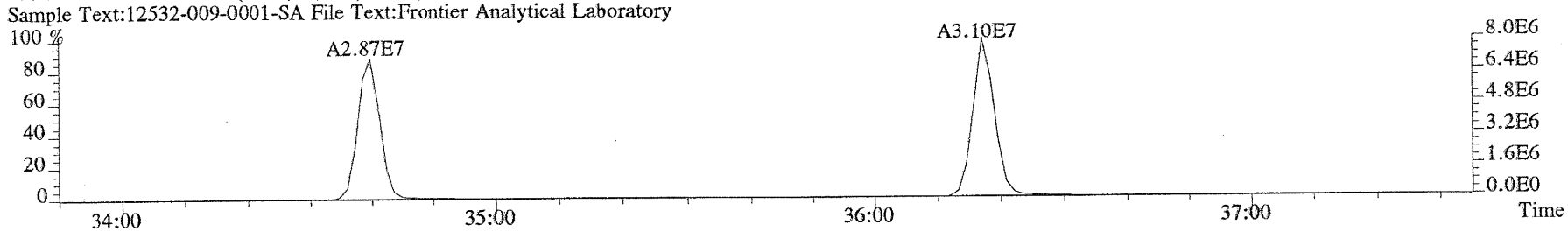
337.9207 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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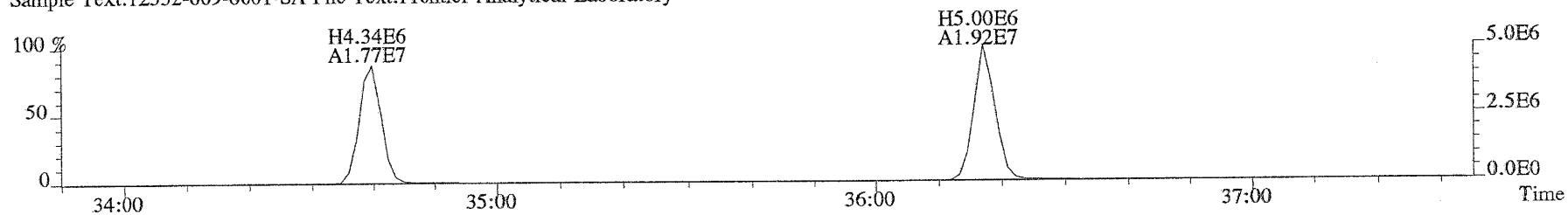
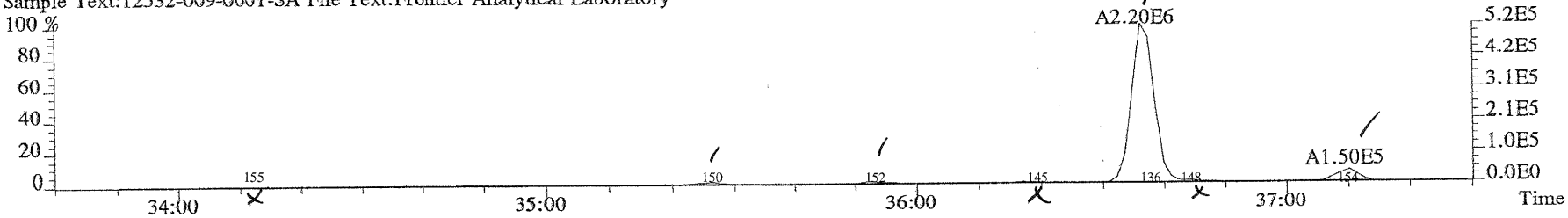
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-181 Acq:24-JUL-2019 22:44:51 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:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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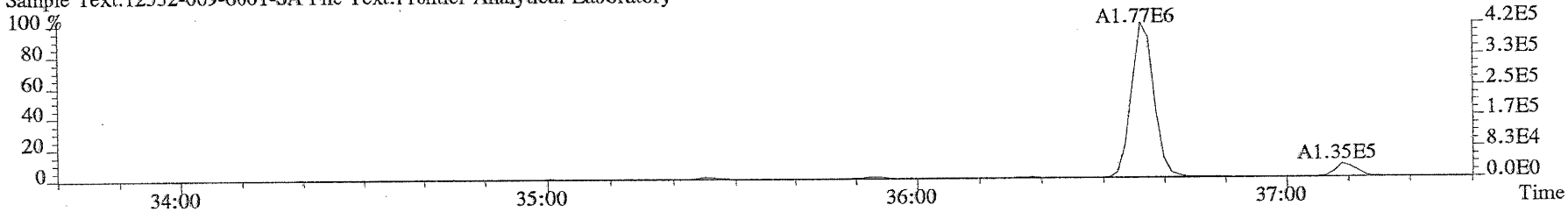
361.8385 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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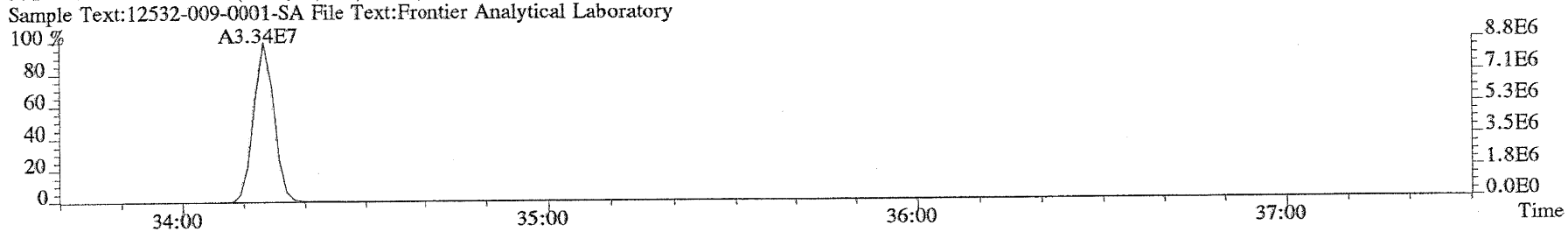
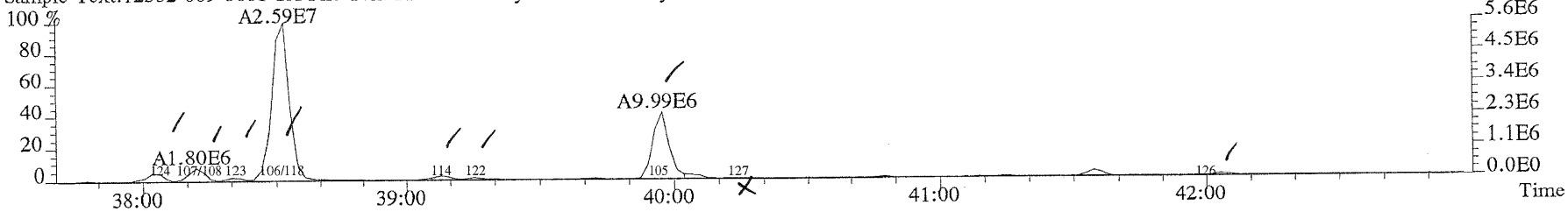
371.8817 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory

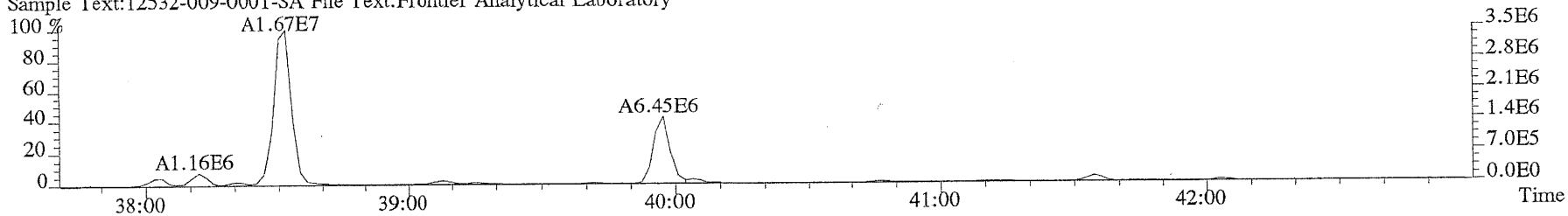


File:24JUL19Z #1-181 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory

File:24JUL19Z #1-405 Acq:24-JUL-2019 22:44:51 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:12532-009-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 22:44:51 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:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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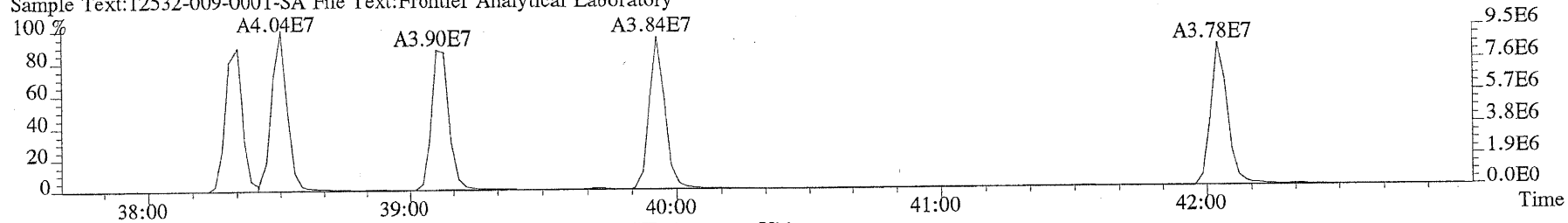
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
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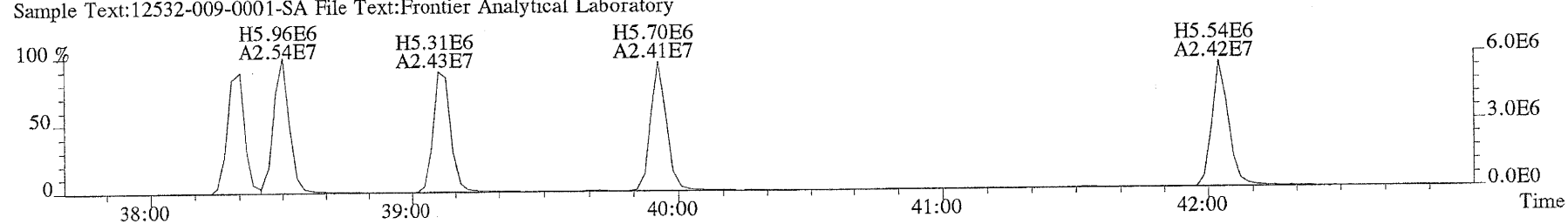
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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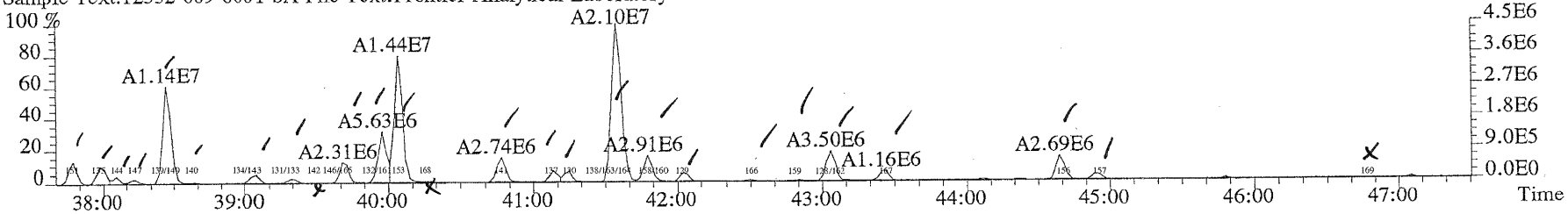

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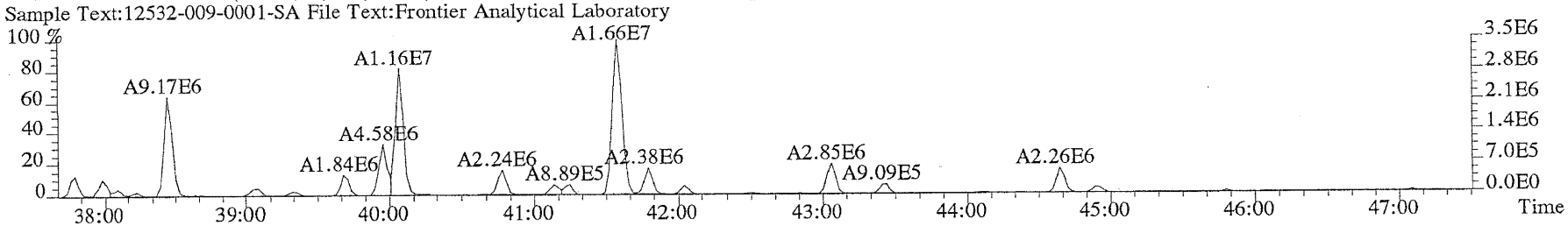
361.8385 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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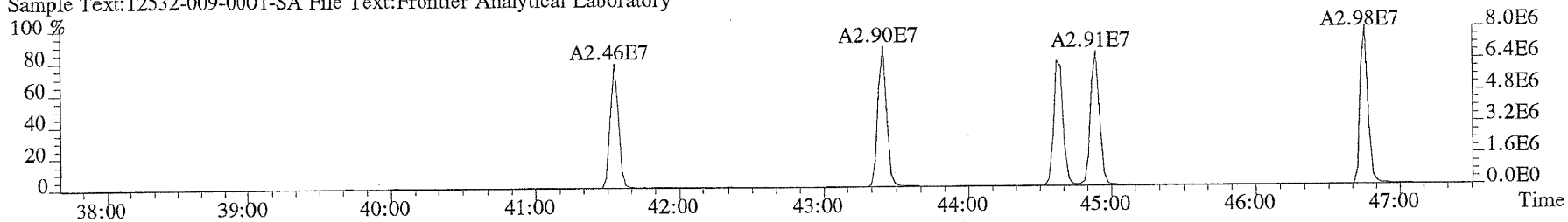

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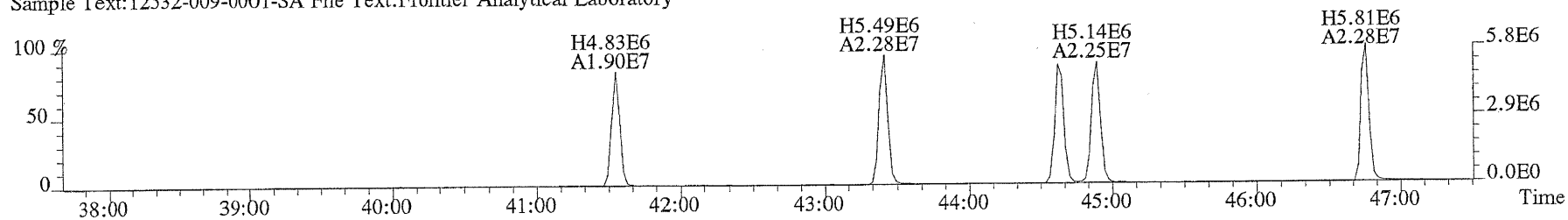
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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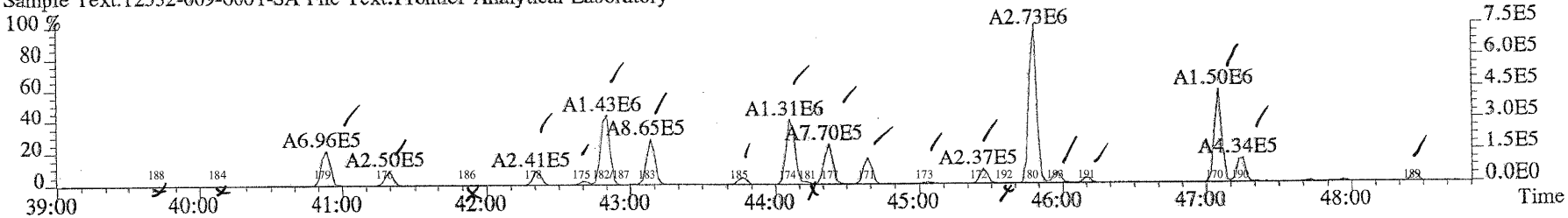
393.8025 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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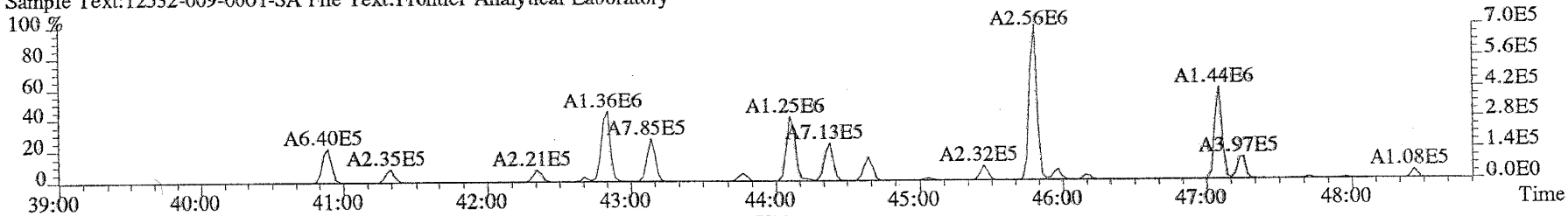

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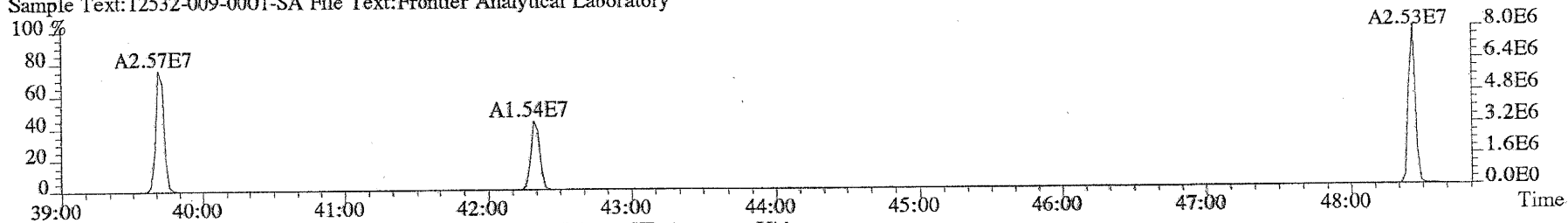
405.8428 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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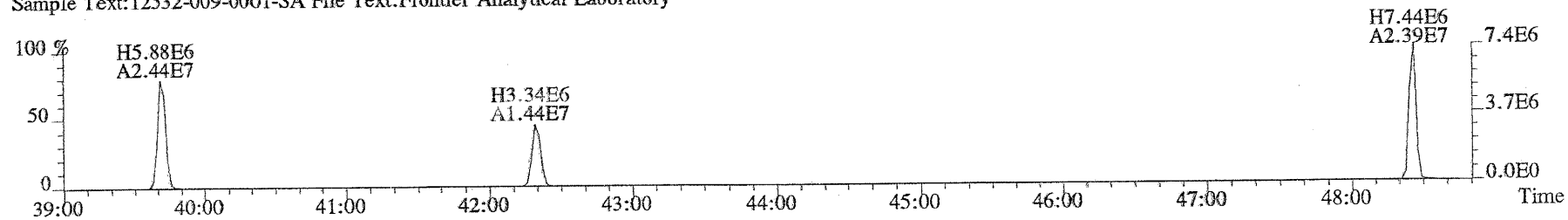
407.8398 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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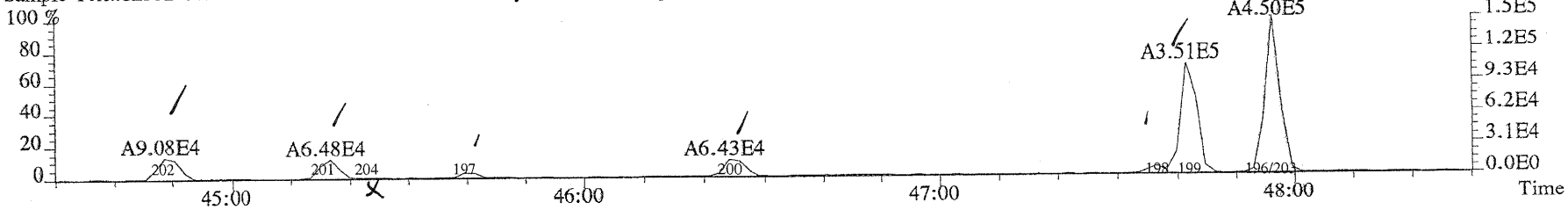
427.7635 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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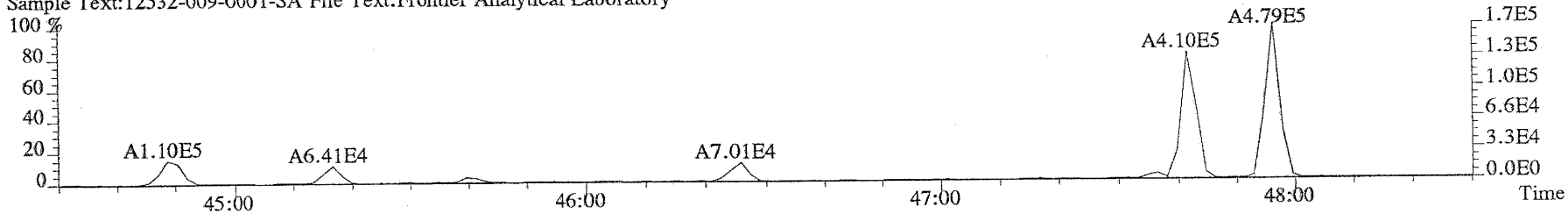
429.7606 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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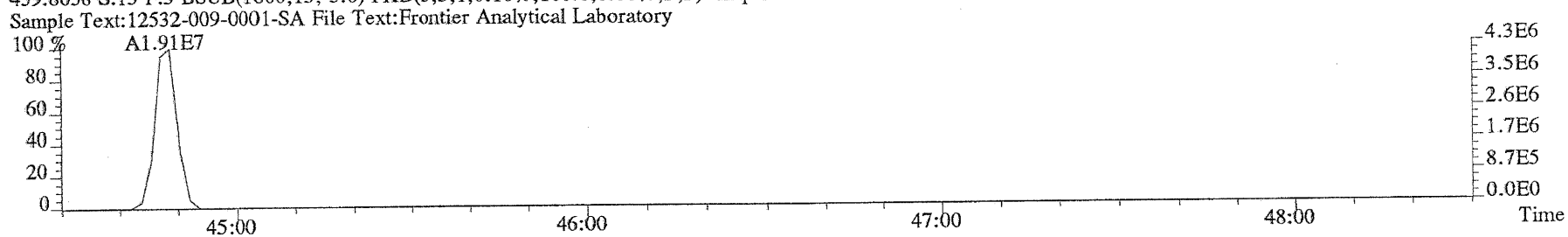
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



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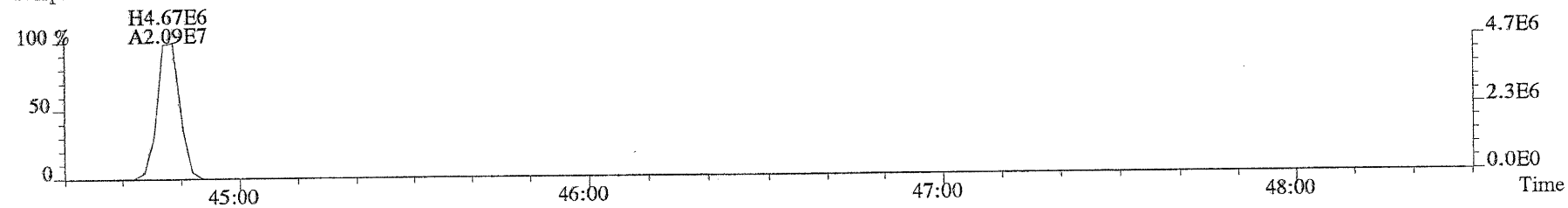
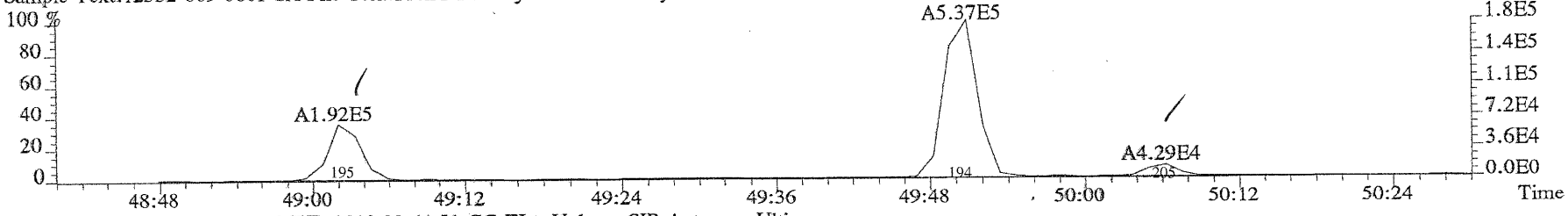
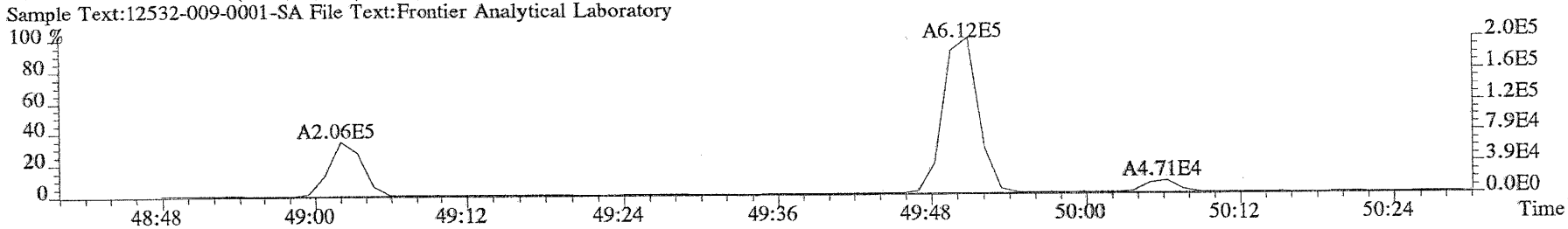
441.8008 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



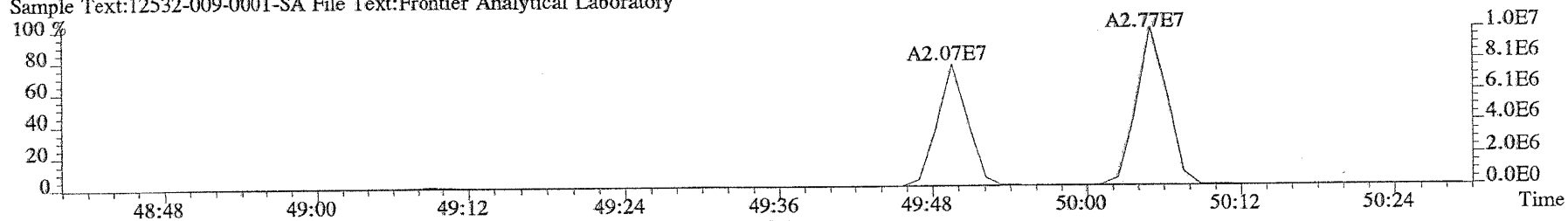
File:24JUL19Z #1-315 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



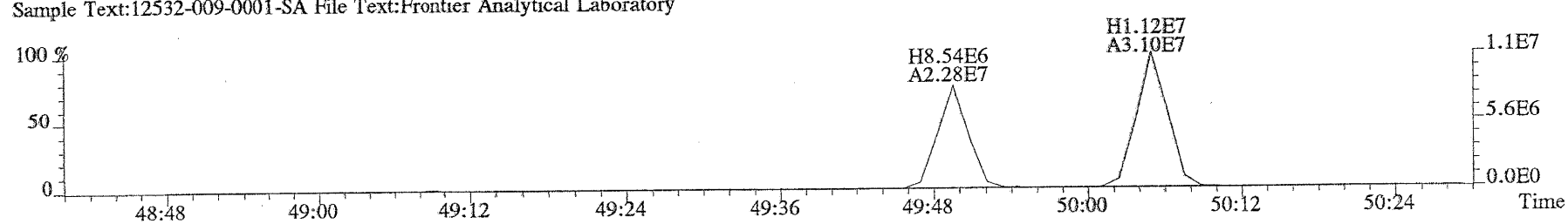
File:24JUL19Z #1-315 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



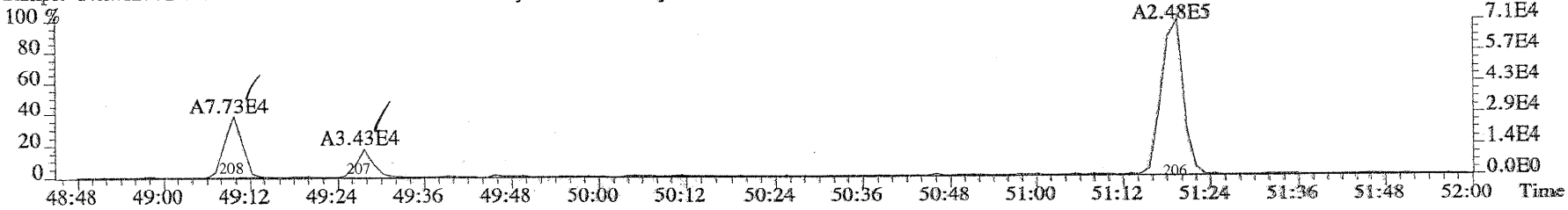
File:24JUL19Z #1-315 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



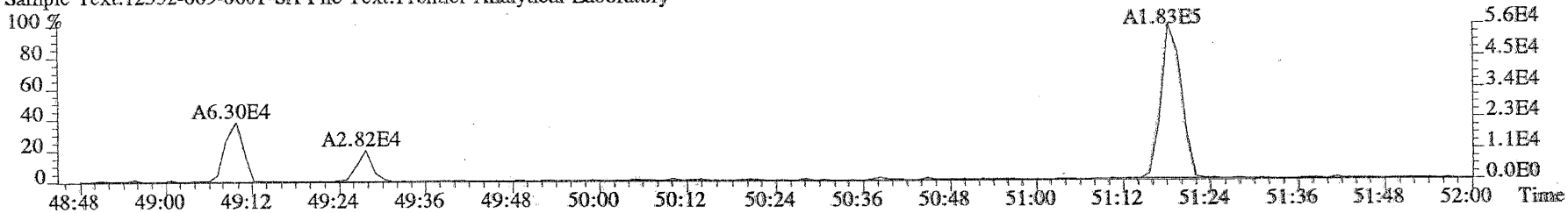
File:24JUL19Z #1-315 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



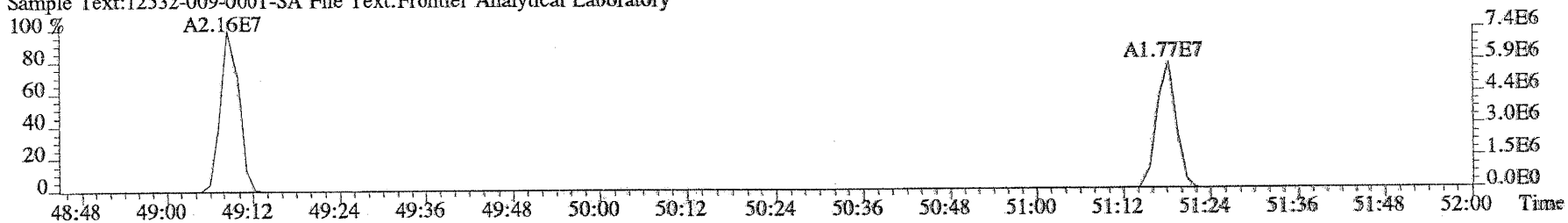
File:24JUL19Z #1-315 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



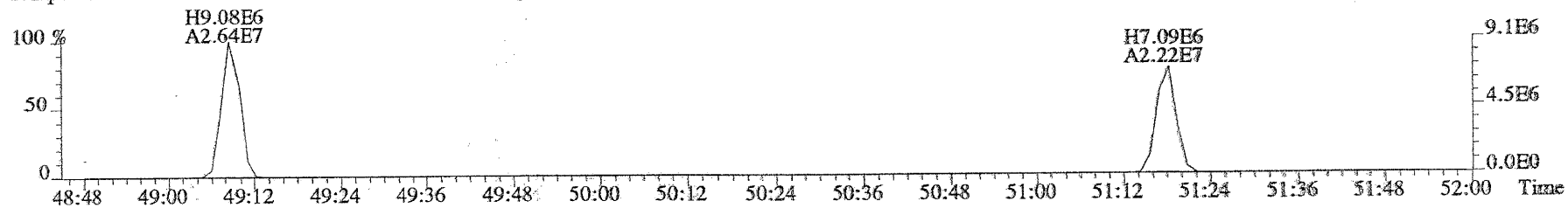
File:24JUL19Z #1-315 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



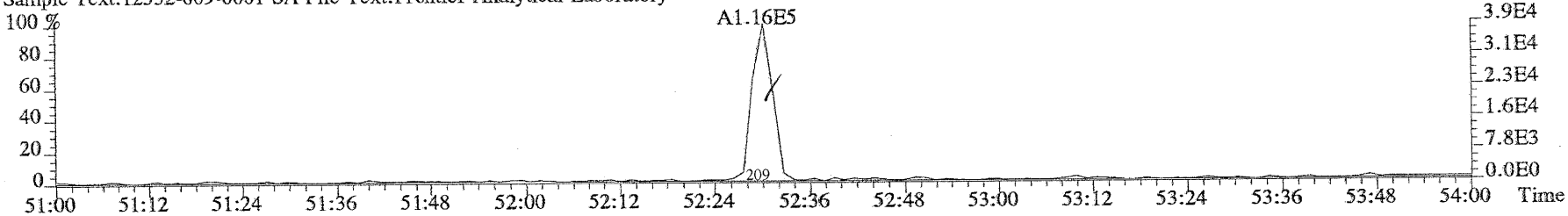
File:24JUL19Z #1-315 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



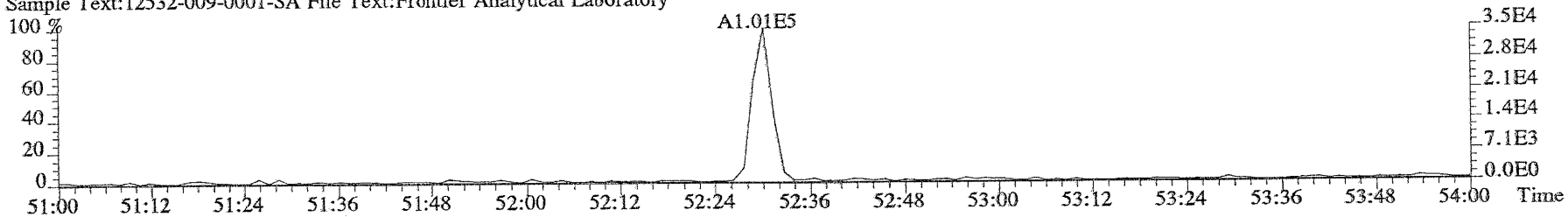
File:24JUL19Z #1-315 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



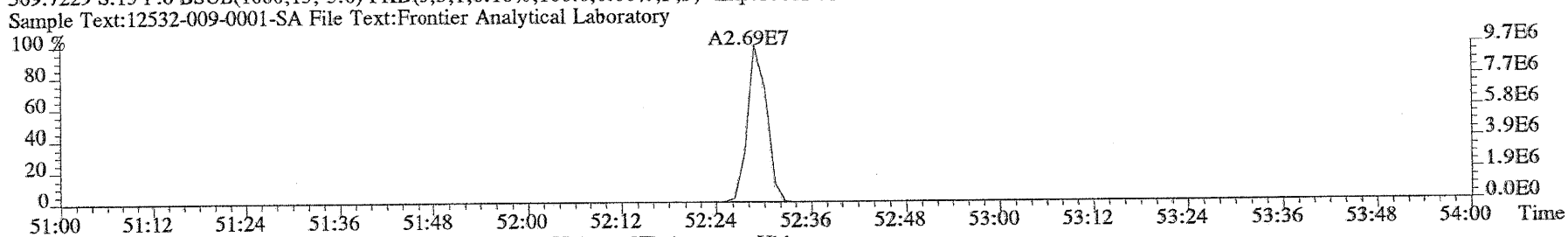
File:24JUL19Z #1-315 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



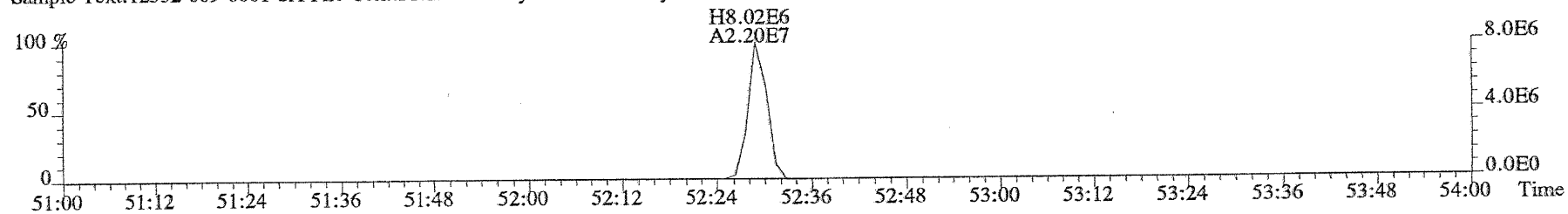
File:24JUL19Z #1-315 Acq:24-JUL-2019 22:44:51 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-009-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 22:44:51 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:12532-009-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 22:44:51 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:12532-009-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12532-010-0001-SA Filename: 24JUL19Z Sam:14 Acquired: 24-JUL-19 23:43:12 ICal: DAILYFAL4-7-24-19
Client ID: LDW-Y2-IN-ENR+AC-CA-CORE ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 5.020

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	3.71e+06	3.02 y	14:35	1.19	37.5		-	-	*	
13C-PCB-1	1.66e+08	3.24 y	14:34	0.82	2180					109
PCB-2	5.41e+05	2.79 y	16:47	1.22	5.29		-	-	*	
PCB-3	2.31e+06	3.02 y	16:60	1.21	22.5		-	-	*	
13C-PCB-3	1.68e+08	3.26 y	16:59	0.85	2140					107
PCB-4	1.75e+06	1.55 y	18:14	1.14	27.0		-	-	*	
PCB-10	2.97e+05	1.54 y	18:17	1.32	3.00	J	-	-	*	
13C-PCB-4	1.14e+08	1.58 y	18:13	0.63	1960					98.4
PCB-9	6.75e+05	1.47 y	19:55	1.39	6.51		-	-	*	
PCB-7	6.40e+05	1.36 y	19:57	1.42	6.05		-	-	*	
PCB-6	2.23e+06	1.66 y	20:32	1.39	21.5		-	-	*	
PCB-8	6.55e+06	1.33 y	20:55	1.41	62.3		-	-	*	
PCB-5	*	* n	NotFnd	1.37	*		1070	5990	0.620	
PCB-14	*	* n	NotFnd	1.31	*		1070	5990	0.652	
PCB-11	1.04e+06	1.37 y	23:06	1.23	11.4		-	-	*	
PCB-13	5.67e+05	1.48 y	23:26	1.26	6.03		-	-	*	
PCB-12	7.38e+05	1.61 y	23:27	1.26	7.86		-	-	*	
PCB-15	3.29e+06	1.43 y	23:46	1.16	30.7		-	-	*	
13C-PCB-15	1.83e+08	1.58 y	23:45	0.96	2050					103
PCB-19	3.38e+05	1.14 y	22:07	1.16	6.44		-	-	*	
PCB-30	*	* n	NotFnd	1.82	*		4290	1390	0.635	
PCB-18	3.02e+06	1.06 y	23:40	1.20	55.9		-	-	*	
PCB-17	1.48e+06	1.11 y	23:49	1.30	25.2		-	-	*	
PCB-27	2.70e+05	1.19 y	24:20	1.77	3.38	J	-	-	*	
PCB-24	3.10e+05	1.05 y	24:21	1.77	3.88	J	-	-	*	
PCB-16	1.03e+06	1.13 y	24:50	1.48	15.3		-	-	*	
PCB-32	1.09e+06	1.13 y	24:52	1.48	16.3		-	-	*	
13C-PCB-19	8.99e+07	1.08 y	22:06	0.45	2160					109
13C-PCB-9	1.85e+08	1.62 y	19:53	-	21.6					
PCB-34	*	* n	NotFnd	1.16	*		1510	1230	0.400	
PCB-23	*	* n	NotFnd	1.33	*		1510	1230	0.350	
PCB-29	*	* n	NotFnd	1.33	*		1510	1230	0.350	
PCB-26	3.94e+06	1.07 y	26:08	1.27	40.2		-	-	*	
PCB-25	1.96e+06	1.07 y	26:17	1.22	20.8		-	-	*	
PCB-31	7.03e+06	1.05 y	26:37	1.20	75.9		-	-	*	
PCB-28	9.78e+06	1.05 y	26:43	1.55	81.6		-	-	*	
PCB-20	4.09e+06	1.02 y	27:19	1.23	43.1		-	-	*	Co-elute PCB 21/33
PCB-21	4.09e+06	1.02 y	27:19	1.23	43.1		-	-	*	Co-elute PCB 20/33
PCB-33	4.09e+06	1.02 y	27:19	1.23	43.1		-	-	*	Co-elute PCB 20/21
PCB-22	2.62e+06	1.04 y	27:43	1.37	24.8		-	-	*	
PCB-36	*	* n	NotFnd	1.27	*		1510	1230	0.367	
PCB-39	*	* n	NotFnd	1.24	*		1510	1230	0.376	
PCB-38	*	* n	NotFnd	1.27	*		1510	1230	0.366	
PCB-35	2.74e+05	1.01 y	30:03	1.12	3.18	J	-	-	*	
PCB-37	2.64e+06	1.17 y	30:31	1.17	29.3		-	-	*	
13C-PCB-37	1.54e+08	1.06 y	30:28	1.46	2160					108

PCB-54	*	*	n	NotFnd	1.26	*		888	1440	0.310	
PCB-50	*	*	n	NotFnd	0.99	*		888	1440	0.395	
PCB-53	8.32e+05	0.81	y	27:21	0.98	15.3		-	-	*	
PCB-51	2.35e+05	0.75	y	27:41	1.01	4.17		-	-	*	
PCB-45	5.12e+05	0.78	y	28:06	0.83	11.1		-	-	*	
PCB-46	1.94e+05	0.82	y	28:33	0.81	4.32		-	-	*	
PCB-52	1.51e+07	0.79	y	29:00	1.05	259		-	-	*	Co-elute PCB 69
PCB-69	1.51e+07	0.79	y	29:00	1.05	259		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.20	*		888	1440	0.325	
PCB-43	7.44e+06	0.79	y	29:18	0.91	148		-	-	*	Co-elute PCB 49
PCB-49	7.44e+06	0.79	y	29:18	0.91	148		-	-	*	Co-elute PCB 43
PCB-47	2.62e+06	0.78	y	29:30	0.92	51.4		-	-	*	
PCB-48	1.08e+06	0.81	y	29:37	1.19	16.4		-	-	*	Co-elute PCB 75
PCB-75	1.08e+06	0.81	y	29:37	1.19	16.4		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.20	*		888	1440	0.325	
PCB-62	*	*	n	NotFnd	1.16	*		888	1440	0.338	
PCB-44	5.92e+06	0.80	y	30:18	0.78	137		-	-	*	
PCB-42	2.21e+06	0.78	y	30:33	1.01	39.5		-	-	*	Co-elute PCB 59
PCB-59	2.21e+06	0.78	y	30:33	1.01	39.5		-	-	*	Co-elute PCB 42
PCB-72	5.89e+06	0.78	y	31:10	1.14	92.8		-	-	*	Co-elute PCB 41/71/64
PCB-41	5.89e+06	0.78	y	31:10	1.14	92.8		-	-	*	Co-elute PCB 72/71/64
PCB-71	5.89e+06	0.78	y	31:10	1.14	92.8		-	-	*	Co-elute PCB 72/41/64
PCB-64	5.89e+06	0.78	y	31:10	1.14	92.8		-	-	*	Co-elute PCB 72/41/71
PCB-68	2.19e+05	0.80	y	31:20	1.33	2.98	J	-	-	*	
PCB-40	6.16e+05	0.83	y	31:30	0.71	15.7		-	-	*	
PCB-57	1.31e+05	0.77	y	31:48	1.21	1.94	J	-	-	*	
PCB-67	3.62e+05	0.75	y	32:06	1.19	5.50		-	-	*	
PCB-58	*	*	n	NotFnd	1.22	*		888	1440	0.321	
PCB-63	3.39e+05	0.78	y	32:21	1.22	5.00		-	-	*	
PCB-74	4.00e+06	0.80	y	32:37	1.22	59.3		-	-	*	
PCB-61	1.12e+07	0.80	y	32:49	1.10	183		-	-	*	Co-elute PCB 70
PCB-70	1.12e+07	0.80	y	32:49	1.10	183		-	-	*	Co-elute PCB 61
PCB-76	9.34e+06	0.79	y	33:01	1.25	135		-	-	*	Co-elute PCB 66
PCB-66	9.34e+06	0.79	y	33:01	1.25	135		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.40	*		888	1440	0.280	
PCB-55	3.30e+05	0.75	y	33:28	1.22	4.86		-	-	*	
13C-PCB-54	1.10e+08	0.83	y	25:38	1.21	1860					93.5
PCB-104	*	*	n	NotFnd	1.12	*		444	480	0.226	
PCB-96	1.12e+05	1.61	y	31:24	1.06	2.30	J	-	-	*	
PCB-103	1.91e+05	1.57	y	31:48	0.86	4.79		-	-	*	
PCB-100	9.94e+04	1.52	y	32:08	0.86	2.50	J	-	-	*	
PCB-94	5.63e+04	1.44	y	32:34	0.72	1.69	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.78	*		444	480	0.323	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.78	*		444	480	0.323	Co-elute PCB 98
PCB-95	1.24e+07	1.53	y	33:05	0.73	368		-	-	*	
PCB-93	*	*	n	NotFnd	0.72	*		444	480	0.349	
PCB-88	2.13e+06	1.61	y	33:28	0.84	54.7		-	-	*	Co-elute PCB 91
PCB-91	2.13e+06	1.61	y	33:28	0.84	54.7		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.95	*		444	480	0.267	
13C-PCB-104	9.21e+07	1.60	y	30:07	1.00	1880					94.1
13C-PCB-28	1.64e+08	1.04	y	26:42	1.75	1920					96.5
13C-PCB-52	9.74e+07	0.80	y	28:59	-	24.3					

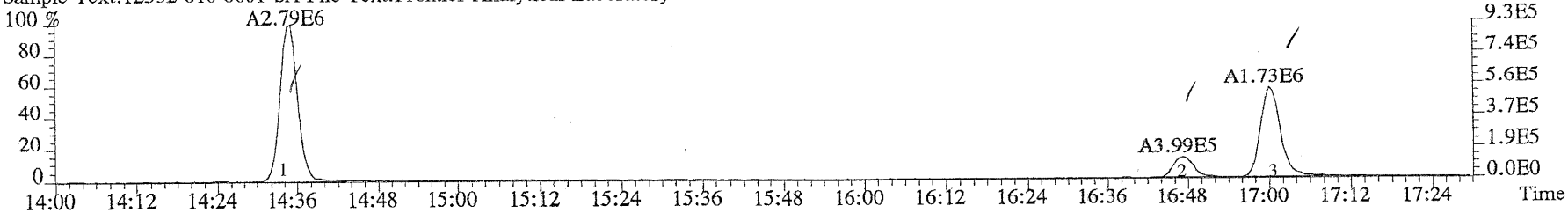
PCB-56	4.51e+06	0.79	y	33:59	1.14	74.4		-	-	*	Co-elute PCB 60
PCB-60	4.51e+06	0.79	y	33:59	1.14	74.4		-	-	*	Co-elute PCB 56
PCB-79	4.38e+05	0.71	y	34:60	1.24	6.63		-	-	*	
PCB-78	1.27e+05	0.79	y	35:35	1.20	2.00	J	-	-	*	
PCB-81	6.65e+05	0.78	y	36:11	1.21	10.4		-	-	*	
13C-PCB-81	1.05e+08	0.80	y	36:08	1.53	2030					102
PCB-77	1.16e+06	0.81	y	36:44	1.04	20.7		-	-	*	
13C-PCB-77	1.06e+08	0.79	y	36:42	1.54	2030					102
PCB-155	*	*	n	NotFnd	1.05	*		440	344	0.188	
PCB-150	6.10e+04	1.17	y	35:26	0.95	1.47	J	-	-	*	
PCB-152	*	*	n	NotFnd	0.93	*		440	344	0.213	
PCB-145	*	*	n	NotFnd	0.93	*		440	344	0.212	
PCB-136	2.76e+06	1.23	y	36:36	0.84	75.7		-	-	*	
PCB-148	*	*	n	NotFnd	0.75	*		440	344	0.265	
PCB-154	3.24e+05	1.33	y	37:09	0.77	9.59		-	-	*	
13C-PCB-155	8.69e+07	1.29	y	34:13	1.35	1880					94.6
13C-PCB-111	7.64e+07	1.62	y	36:17	1.21	1850					93.0
13C-PCB-101	6.79e+07	1.60	y	34:38	-	21.1					
PCB-84	7.24e+06	1.55	y	34:19	0.85	186		-	-	*	Co-elute PCB 92
PCB-92	7.24e+06	1.55	y	34:19	0.85	186		-	-	*	Co-elute PCB 84
PCB-89	1.64e+05	1.55	y	34:30	0.79	4.50		-	-	*	
PCB-90	1.97e+07	1.58	y	34:40	0.92	469		-	-	*	Co-elute PCB 101
PCB-101	1.97e+07	1.58	y	34:40	0.92	469		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*		1540	1260	0.622	
PCB-99	9.98e+06	1.52	y	34:59	0.96	227		-	-	*	
PCB-119	6.91e+05	1.52	y	35:25	1.17	12.8		-	-	*	
PCB-83	9.16e+05	1.53	y	35:35	0.92	21.7		-	-	*	Co-elute PCB 112
PCB-112	9.16e+05	1.53	y	35:35	0.92	21.7		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.09	*		1540	1260	0.625	
PCB-97	5.32e+06	1.55	y	35:54	0.75	155		-	-	*	
PCB-86	*	*	n	NotFnd	0.83	*		1540	1260	0.819	
PCB-125	8.17e+06	1.58	y	36:11	1.00	178		-	-	*	Co-elute PCB 87/117
PCB-87	8.17e+06	1.58	y	36:11	1.00	178		-	-	*	Co-elute PCB 125/117
PCB-117	8.17e+06	1.58	y	36:11	1.00	178		-	-	*	Co-elute PCB 125/87
PCB-111	4.92e+05	1.63	y	36:20	1.12	9.54		-	-	*	Co-elute PCB 115
PCB-115	4.92e+05	1.63	y	36:20	1.12	9.54		-	-	*	Co-elute PCB 111
PCB-85	3.38e+06	1.56	y	36:26	0.98	75.1		-	-	*	Co-elute PCB 116
PCB-116	3.38e+06	1.56	y	36:26	0.98	75.1		-	-	*	Co-elute PCB 85
PCB-120	1.04e+05	1.54	y	36:40	1.21	1.88	J	-	-	*	
PCB-110	2.93e+07	1.58	y	36:47	1.12	569		-	-	*	
PCB-82	1.61e+06	1.60	y	37:24	0.65	53.7		-	-	*	
PCB-124	1.14e+06	1.48	y	38:02	1.16	21.3		-	-	*	
PCB-108	1.88e+06	1.51	y	38:12	1.12	36.7		-	-	*	Co-elute PCB 107
PCB-107	1.88e+06	1.51	y	38:12	1.12	36.7		-	-	*	Co-elute PCB 108
PCB-123	4.52e+05	1.45	y	38:20	0.97	10.5		-	-	*	
13C-PCB-123	8.88e+07	1.58	y	38:18	1.48	1380					69.2
PCB-118	2.41e+07	1.54	y	38:32	1.06	479		-	-	*	Co-elute PCB 106
PCB-106	2.41e+07	1.54	y	38:32	1.06	479		-	-	*	Co-elute PCB 118
13C-PCB-118	9.49e+07	1.58	y	38:30	1.54	1410					70.9
PCB-114	5.64e+05	1.66	y	39:08	1.07	11.5		-	-	*	
13C-PCB-114	9.18e+07	1.60	y	39:06	1.46	1440					72.3
PCB-122	3.49e+05	1.42	y	39:16	1.09	6.96		-	-	*	
PCB-105	9.47e+06	1.55	y	39:57	1.14	183		-	-	*	
13C-PCB-105	9.03e+07	1.60	y	39:56	1.40	1480					74.5

PCB-127	*	*	n	NotFnd	1.00	*		1760	1880	0.888	
PCB-126	2.08e+05	1.42	y	42:04	1.10	4.36		-	-	*	
13C-PCB-126	8.65e+07	1.59	y	42:02	1.32	1500					75.4
PCB-151	3.57e+06	1.25	y	37:47	1.10	79.8		-	-	*	
PCB-135	2.56e+06	1.24	y	37:59	1.01	61.9		-	-	*	
PCB-144	7.39e+05	1.20	y	38:05	1.25	14.5		-	-	*	
PCB-147	5.50e+05	1.38	y	38:14	1.15	11.7		-	-	*	
PCB-139	1.56e+07	1.25	y	38:27	1.18	325		-	-	*	Co-elute PCB 149
PCB-149	1.56e+07	1.25	y	38:27	1.18	325		-	-	*	Co-elute PCB 139
PCB-140	1.89e+05	1.19	y	38:38	1.16	4.00		-	-	*	
PCB-143	1.11e+06	1.28	y	39:05	0.96	28.5		-	-	*	Co-elute PCB 134
PCB-134	1.11e+06	1.28	y	39:05	0.96	28.5		-	-	*	Co-elute PCB 143
PCB-131	6.01e+05	1.38	y	39:19	0.94	15.7		-	-	*	Co-elute PCB 133
PCB-133	6.01e+05	1.38	y	39:19	0.94	15.7		-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.99	*		1840	956	0.719	
PCB-165	3.29e+06	1.23	y	39:41	1.26	64.3		-	-	*	Co-elute PCB 146
PCB-146	3.29e+06	1.23	y	39:41	1.26	64.3		-	-	*	Co-elute PCB 165
PCB-161	7.03e+06	1.23	y	39:57	1.15	150		-	-	*	Co-elute PCB 132
PCB-132	7.03e+06	1.23	y	39:57	1.15	150		-	-	*	Co-elute PCB 161
PCB-153	2.04e+07	1.24	y	40:04	1.27	393		-	-	*	
PCB-168	*	*	n	NotFnd	1.35	*		1840	956	0.524	
PCB-141	3.46e+06	1.23	y	40:47	1.02	83.2		-	-	*	
PCB-137	1.39e+06	1.23	y	41:08	0.94	36.4		-	-	*	
PCB-130	1.41e+06	1.22	y	41:15	0.89	38.9		-	-	*	
PCB-138	2.83e+07	1.26	y	41:34	1.25	556		-	-	*	Co-elute PCB 163/164
PCB-163	2.83e+07	1.26	y	41:34	1.25	556		-	-	*	Co-elute PCB 138/164
PCB-164	2.83e+07	1.26	y	41:34	1.25	556		-	-	*	Co-elute PCB 138/163
PCB-158	3.64e+06	1.24	y	41:47	1.33	67.1		-	-	*	Co-elute PCB 160
PCB-160	3.64e+06	1.24	y	41:47	1.33	67.1		-	-	*	Co-elute PCB 158
PCB-129	1.02e+06	1.23	y	42:02	0.85	29.4		-	-	*	
PCB-166	1.39e+05	1.21	y	42:29	1.28	2.66	J	-	-	*	
PCB-159	2.72e+05	1.07	y	42:50	1.37	4.88		-	-	*	
PCB-128	4.87e+06	1.26	y	43:03	1.08	111		-	-	*	Co-elute PCB 162
PCB-162	4.87e+06	1.26	y	43:03	1.08	111		-	-	*	Co-elute PCB 128
PCB-167	1.40e+06	1.23	y	43:25	1.18	29.4		-	-	*	
13C-PCB-167	8.06e+07	1.28	y	43:25	1.13	1640					82.4
PCB-156	3.29e+06	1.28	y	44:39	1.24	67.9		-	-	*	
13C-PCB-156	7.77e+07	1.29	y	44:39	1.06	1680					84.2
PCB-157	9.45e+05	1.24	y	44:53	1.18	20.0		-	-	*	
13C-PCB-157	7.98e+07	1.30	y	44:53	1.07	1720					86.1
PCB-169	*	*	n	NotFnd	1.12	*		1840	956	0.495	
13C-PCB-169	8.68e+07	1.31	y	46:45	1.00	1990					100

PCB-188	*	*	n	NotFnd	1.03	*		816	456	0.388	
13C-PCB-188	7.19e+07	1.06	y	39:41	1.26	1310					65.7
PCB-184	*	*	n	NotFnd	1.18	*		816	456	0.279	
PCB-179	1.88e+06	1.12	y	40:53	1.11	45.0		-	-	*	
PCB-176	5.71e+05	1.08	y	41:20	1.08	14.2		-	-	*	
PCB-186	*	*	n	NotFnd	1.08	*		816	456	0.305	
PCB-178	6.92e+05	1.05	y	42:20	0.74	24.8		-	-	*	
PCB-175	1.52e+05	0.97	y	42:40	0.76	5.34		-	-	*	
PCB-187	4.30e+06	1.07	y	42:50	0.82	139		-	-	*	Co-elute PCB 182
PCB-182	4.30e+06	1.07	y	42:50	0.82	139		-	-	*	Co-elute PCB 187
PCB-183	2.08e+06	1.12	y	43:08	0.80	69.9		-	-	*	
PCB-185	3.56e+05	1.04	y	43:46	0.71	13.5		-	-	*	
PCB-174	3.21e+06	1.04	y	44:06	0.73	117		-	-	*	
PCB-181	*	*	n	NotFnd	0.66	*		816	456	0.500	
PCB-177	1.93e+06	1.07	y	44:22	0.64	79.9		-	-	*	
PCB-171	9.51e+05	1.03	y	44:39	0.69	36.9		-	-	*	
PCB-173	6.62e+04	1.01	y	45:03	0.62	2.86	J	-	-	*	
PCB-172	5.88e+05	1.05	y	45:26	0.64	24.7		-	-	*	
PCB-192	*	*	n	NotFnd	0.84	*		816	456	0.392	
PCB-180	7.62e+06	1.05	y	45:48	0.65	315		-	-	*	
PCB-193	5.62e+05	1.21	y	45:58	0.90	16.7		-	-	*	
PCB-191	1.91e+05	1.12	y	46:11	0.83	6.12		-	-	*	
PCB-170	3.70e+06	1.06	y	47:05	0.60	165		-	-	*	
PCB-190	1.09e+06	1.08	y	47:15	0.85	34.5		-	-	*	
PCB-189	2.51e+05	1.06	y	48:26	1.06	6.09		-	-	*	
13C-PCB-189	7.74e+07	1.07	y	48:26	0.96	1850					92.9
PCB-202	4.65e+05	0.88	y	44:50	1.03	14.6		-	-	*	
PCB-201	3.00e+05	0.79	y	45:17	1.09	8.86		-	-	*	
PCB-204	*	*	n	NotFnd	1.05	*		308	512	0.267	
PCB-197	9.25e+04	0.91	y	45:41	1.09	2.72	J	-	-	*	
PCB-200	2.86e+05	1.02	y	46:26	1.04	8.81		-	-	*	
PCB-198	1.02e+05	0.82	y	47:36	0.70	4.68		-	-	*	
PCB-199	1.82e+06	0.91	y	47:41	0.70	84.1		-	-	*	
PCB-203	2.15e+06	0.89	y	47:56	0.83	83.5		-	-	*	Co-elute PCB 196
PCB-196	2.15e+06	0.89	y	47:56	0.83	83.5		-	-	*	Co-elute PCB 203
13C-PCB-202	6.19e+07	0.89	y	44:49	0.89	1600					80.5
13C-PCB-178	4.67e+07	1.08	y	42:20	0.78	1370					68.8
13C-PCB-138	8.68e+07	1.31	y	46:45	-	31.7					
PCB-195	7.88e+05	0.90	y	49:03	0.67	26.2		-	-	*	
PCB-194	2.37e+06	0.89	y	49:51	0.84	63.3		-	-	*	
PCB-205	1.64e+05	0.95	y	50:06	1.06	3.47	J	-	-	*	
13C-PCB-205	8.92e+07	0.90	y	50:06	1.30	2080					104
PCB-208	3.53e+05	1.34	y	49:10	1.09	8.56		-	-	*	
13C-PCB-208	7.58e+07	0.81	y	49:10	1.05	2190					110
PCB-207	1.65e+05	1.27	y	49:28	1.22	3.92	J	-	-	*	
PCB-206	1.16e+06	1.29	y	51:18	1.08	34.4		-	-	*	
13C-PCB-206	6.19e+07	0.81	y	51:17	0.89	2100					106
PCB-209	8.01e+05	1.23	y	52:29	1.14	18.8		-	-	*	
13C-PCB-209	7.45e+07	1.20	y	52:29	1.10	2040					102
13C-PCB-194	6.59e+07	0.90	y	49:50	-	25.0					

Analyst: _____ Date: 7/25/19

File:24JUL19Z #1-783 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



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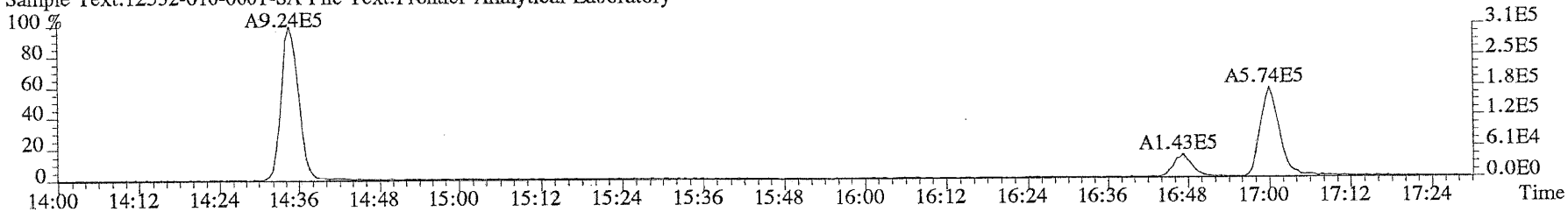

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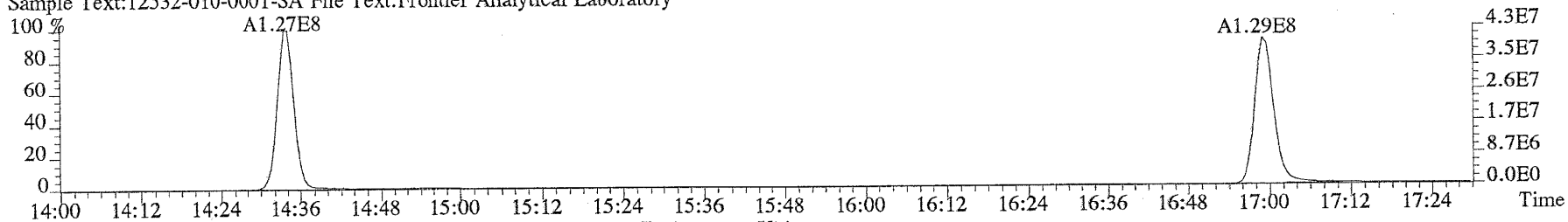

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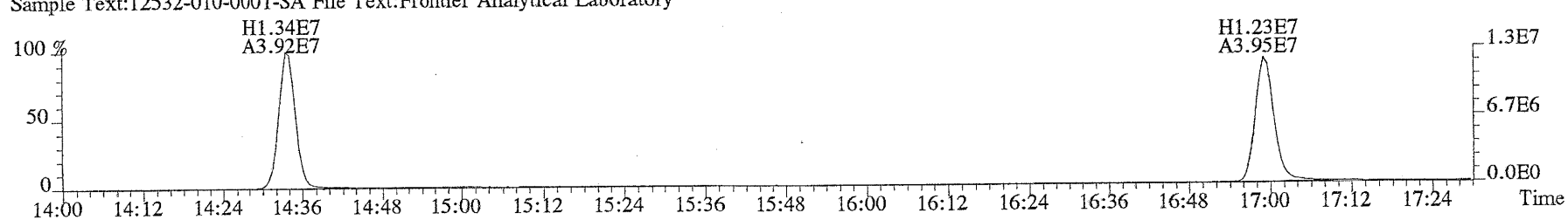

File:24JUL19Z #1-520 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
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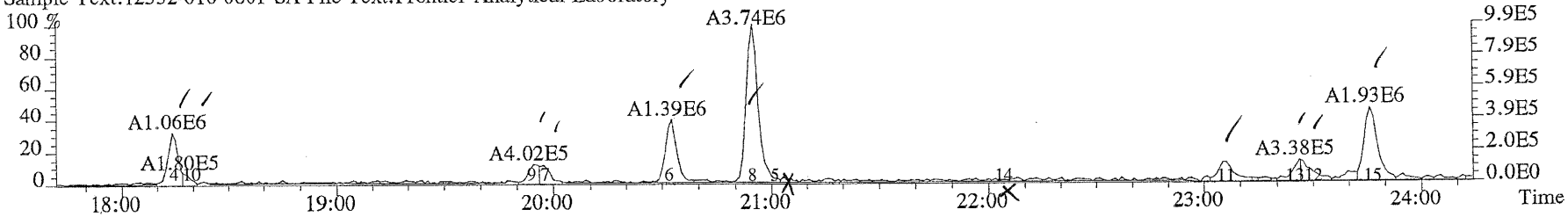

File:24JUL19Z #1-520 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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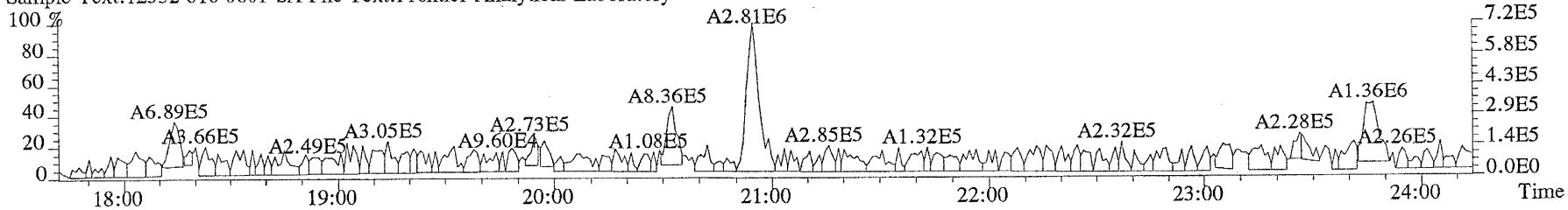

File:24JUL19Z #1-520 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
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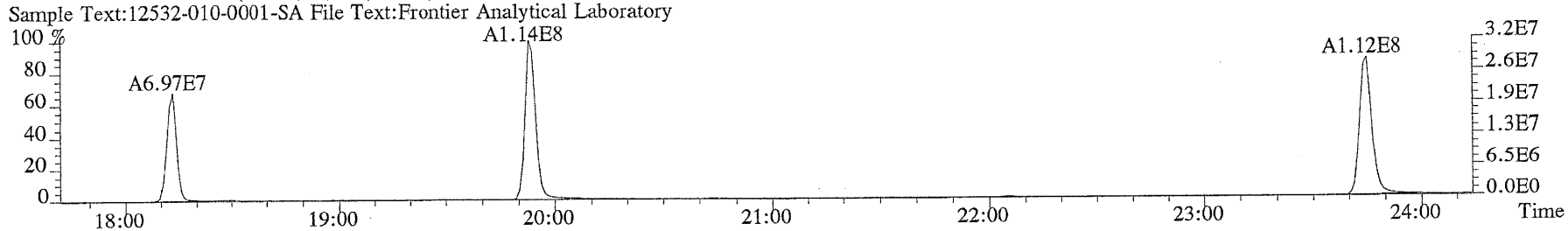
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-520 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
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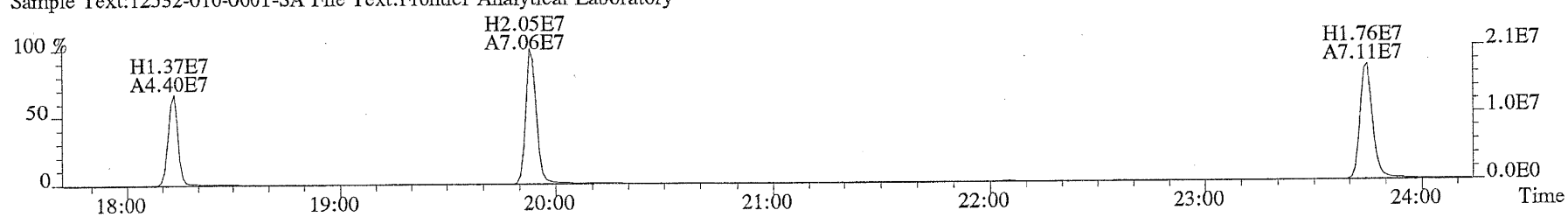

File:24JUL19Z #1-520 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
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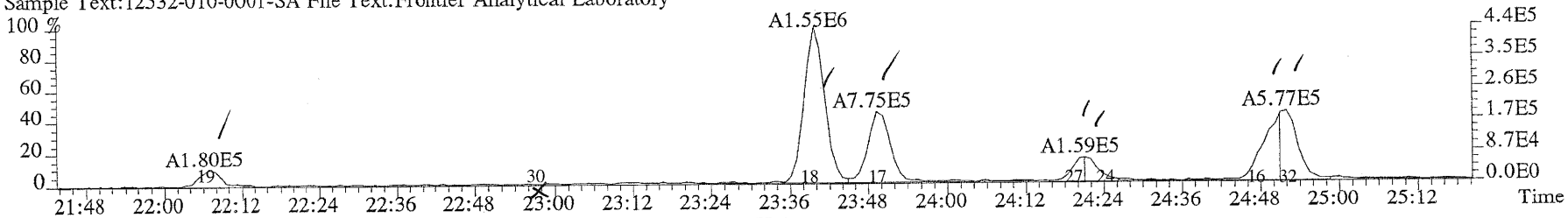
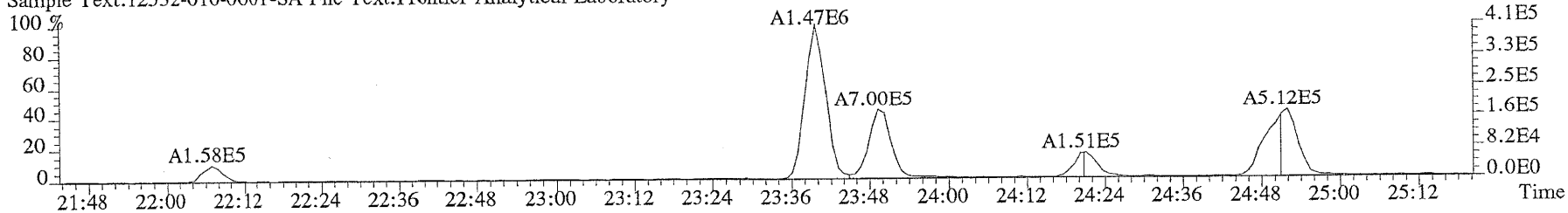
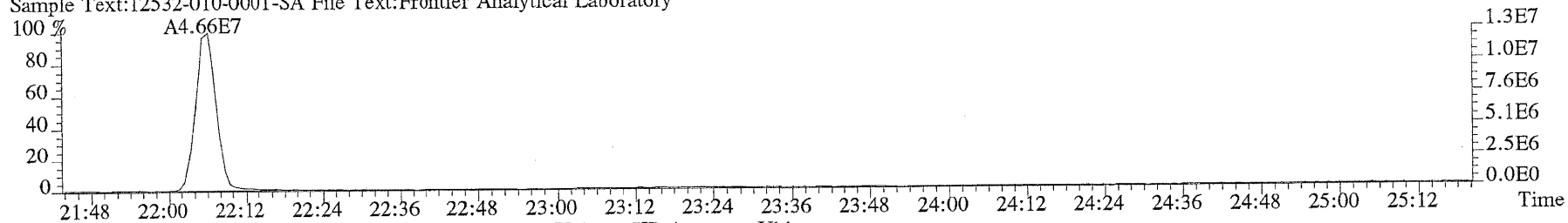
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



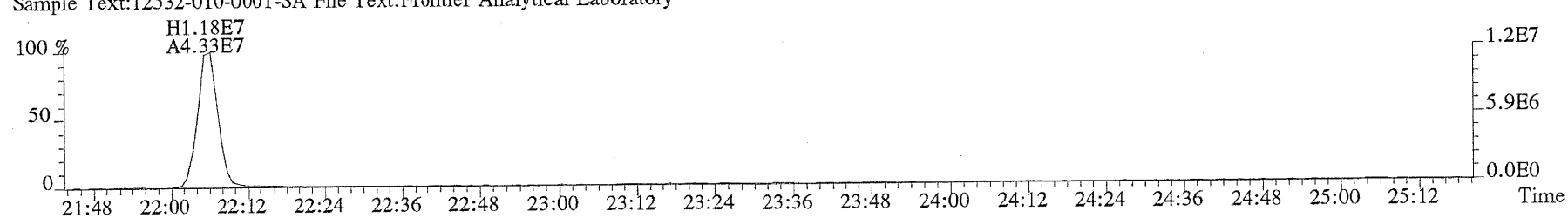
File:24JUL19Z #1-520 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



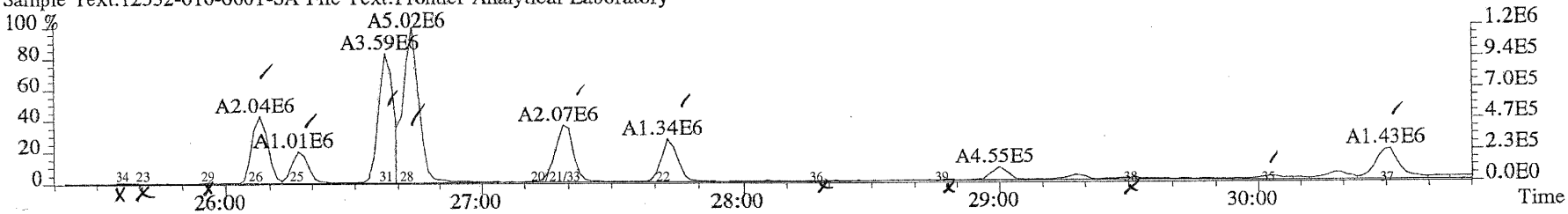
File:24JUL19Z #1-520 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



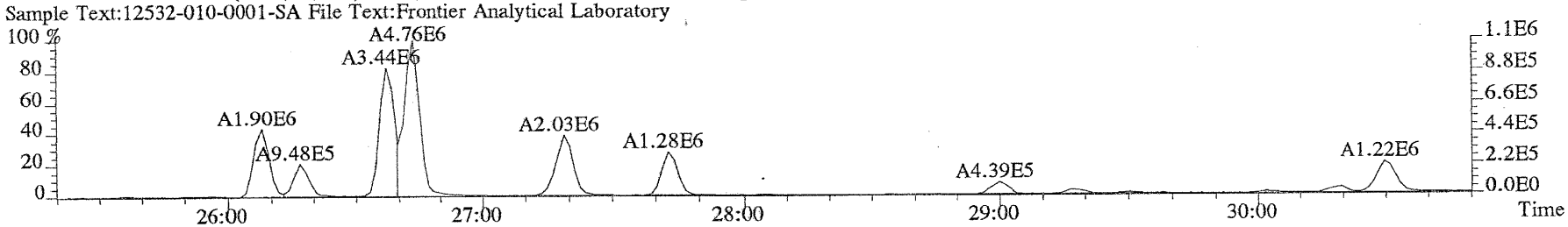
File:24JUL19Z #1-520 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-401 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-401 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



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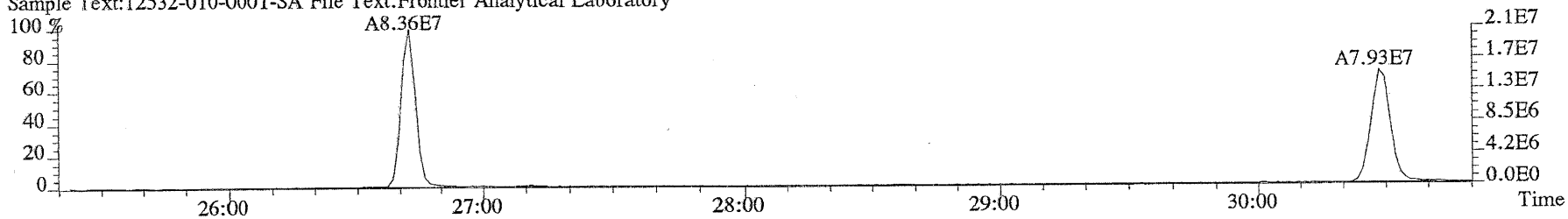
268.0016 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



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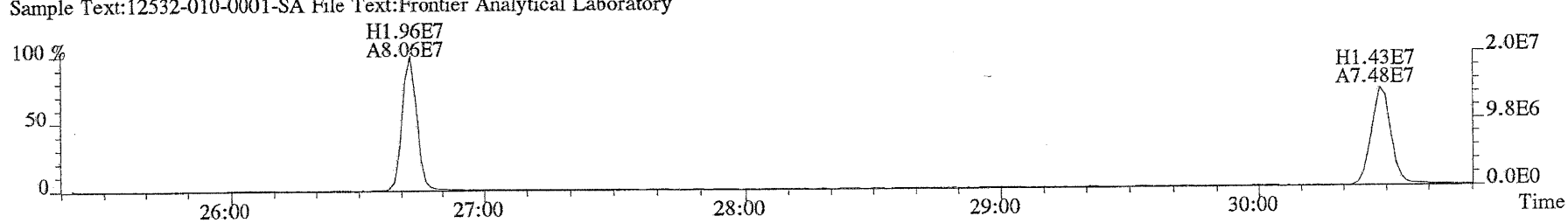
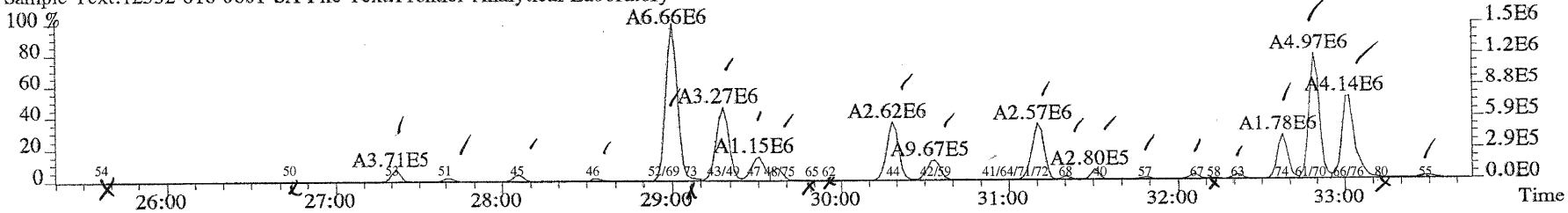
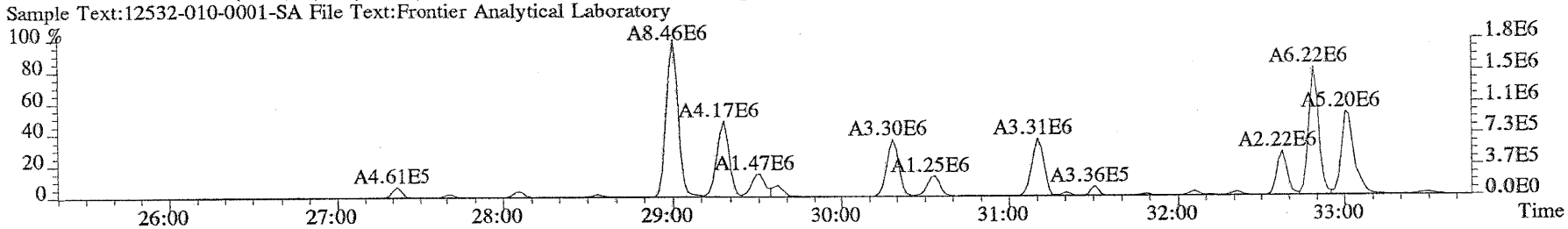
269.9986 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



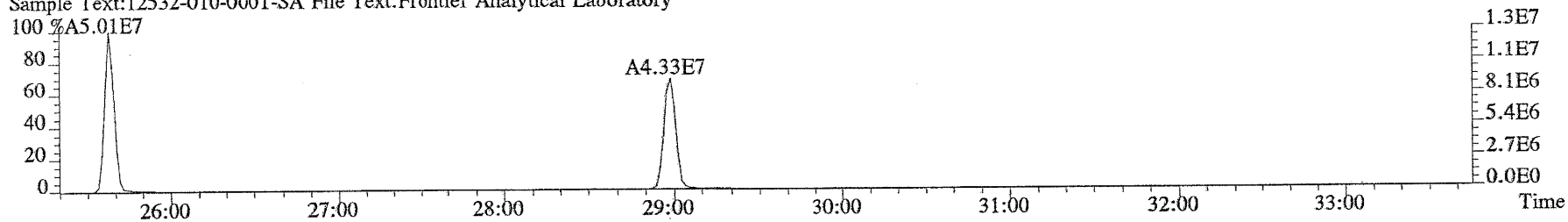
File:24JUL19Z #1-401 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-401 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-401 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



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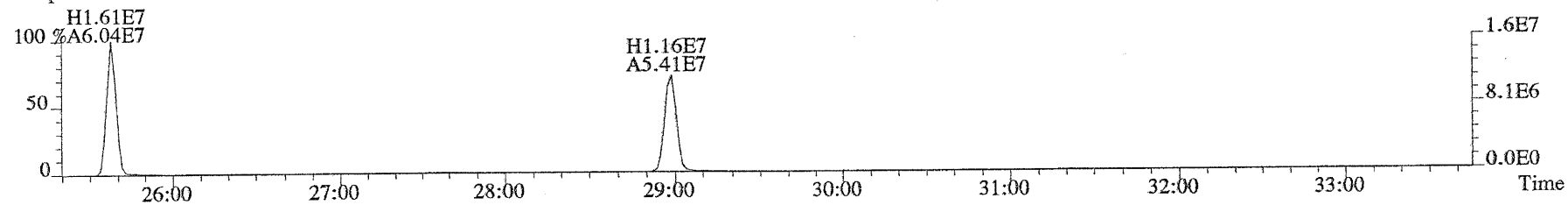
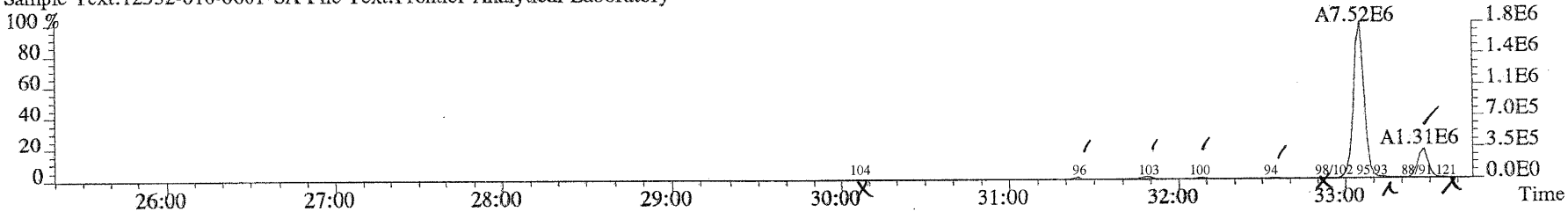
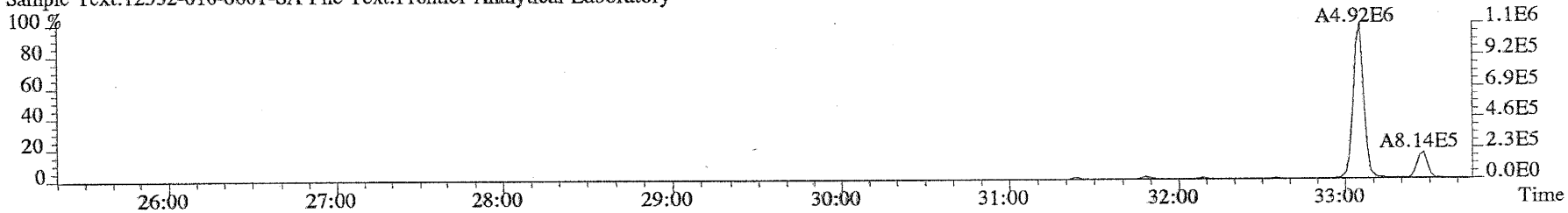
303.9597 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



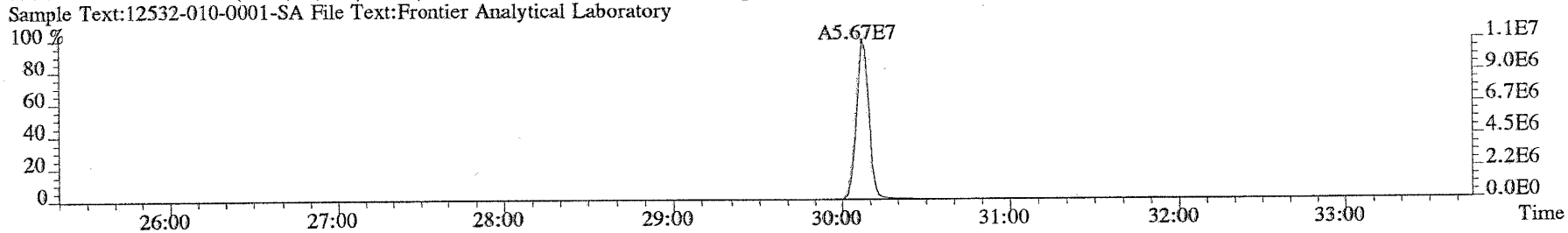
File:24JUL19Z #1-401 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



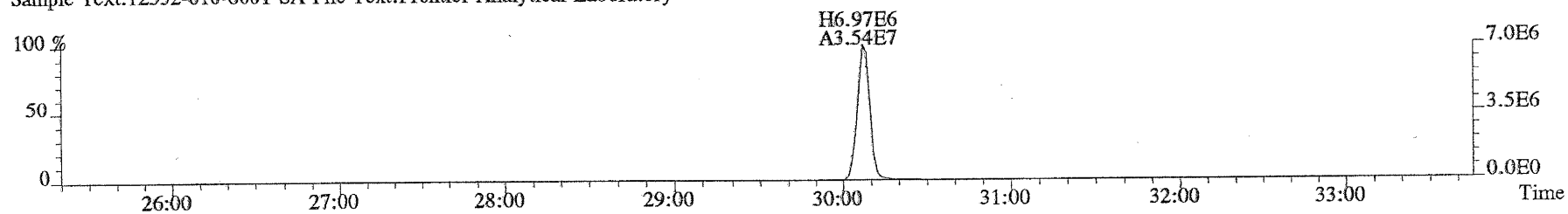
File:24JUL19Z #1-401 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



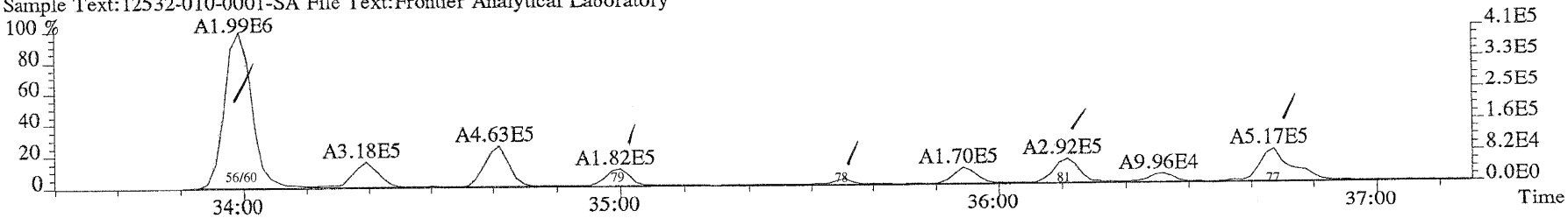
File:24JUL19Z #1-401 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



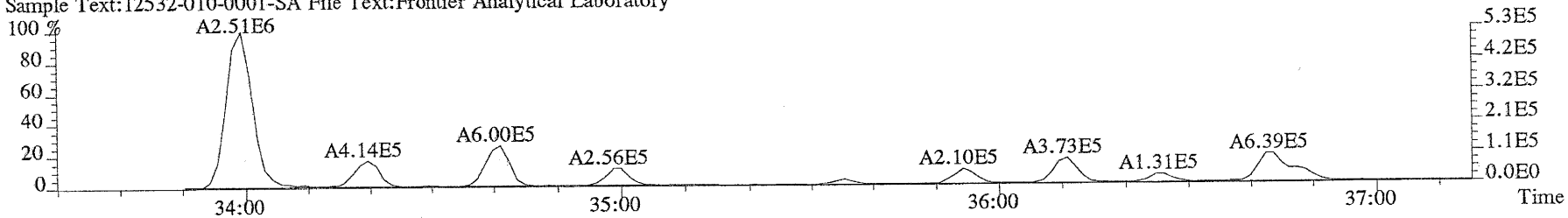
File:24JUL19Z #1-401 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



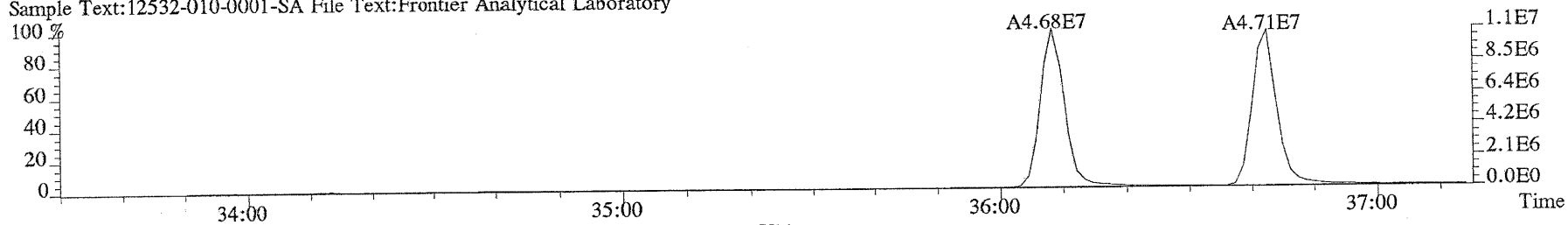
File:24JUL19Z #1-181 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



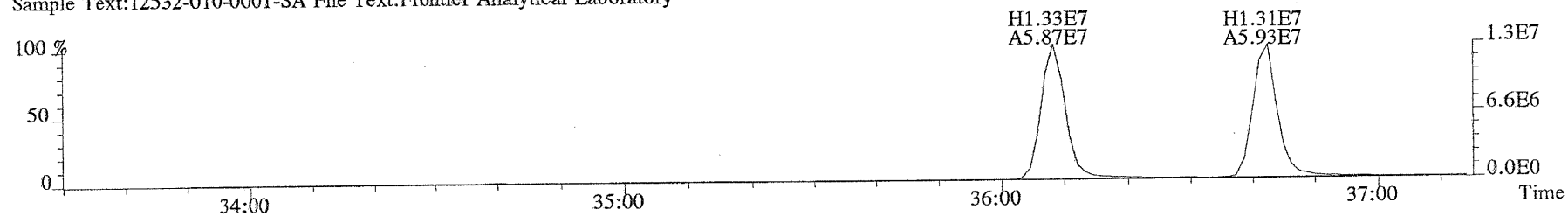
File:24JUL19Z #1-181 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



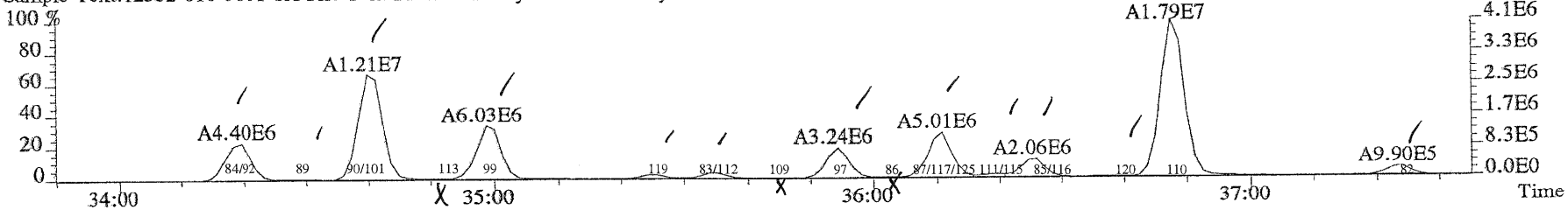
File:24JUL19Z #1-181 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



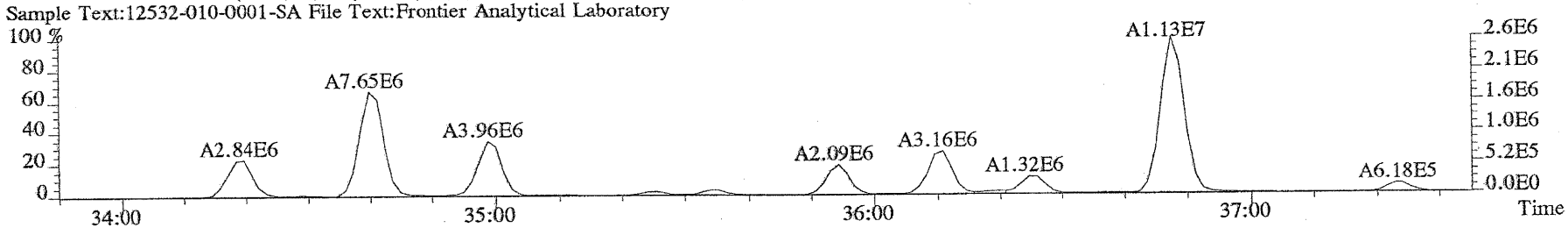
File:24JUL19Z #1-181 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



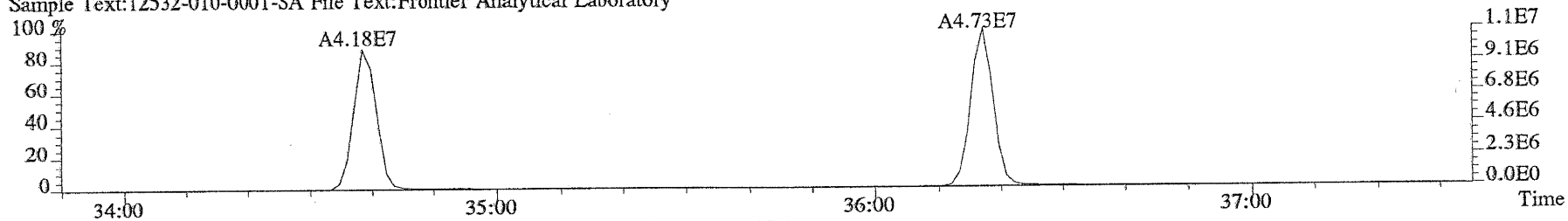
File:24JUL19Z #1-181 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



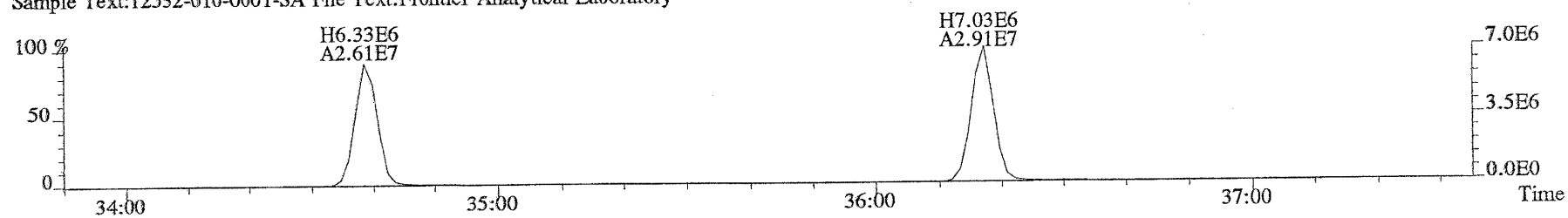
File:24JUL19Z #1-181 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



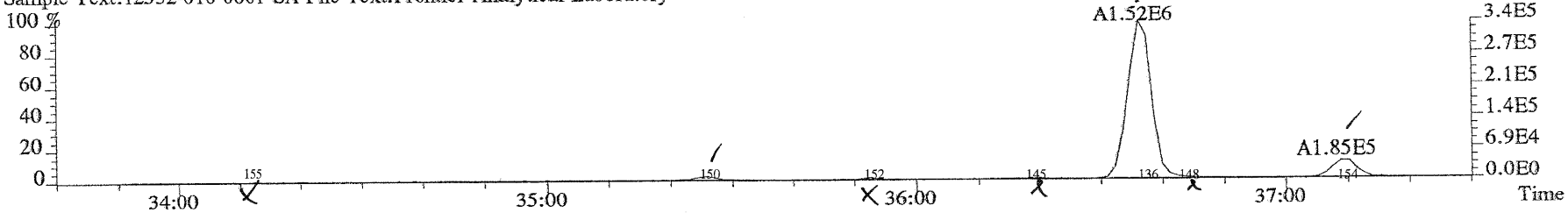
File:24JUL19Z #1-181 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



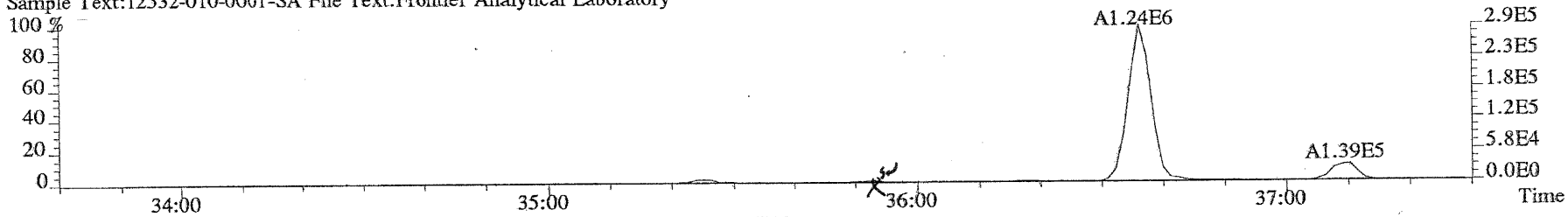
File:24JUL19Z #1-181 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



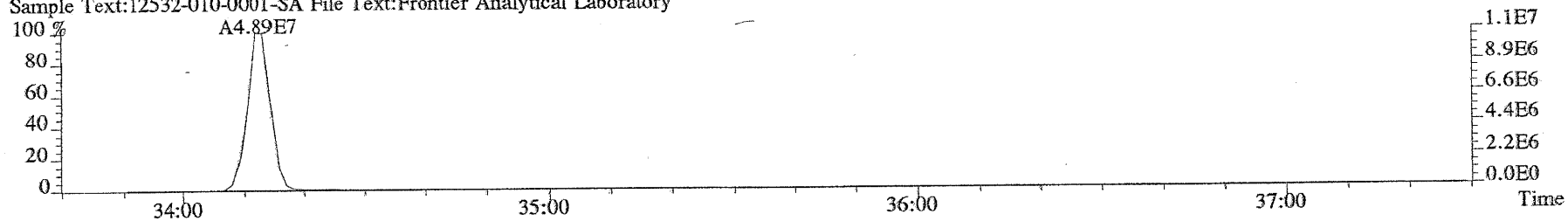
File:24JUL19Z #1-181 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



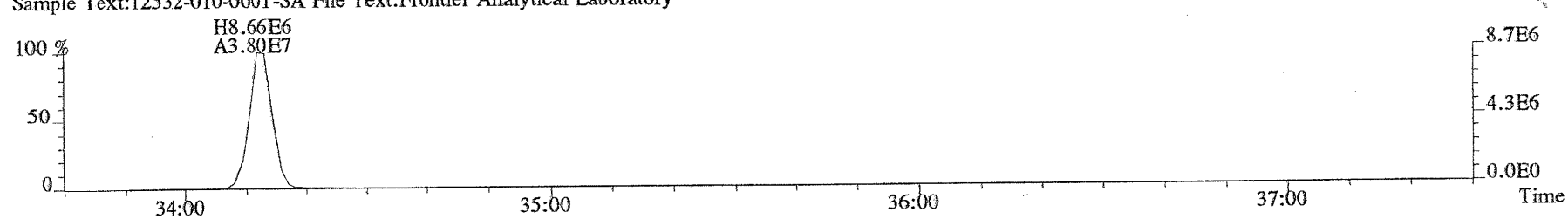
File:24JUL19Z #1-181 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



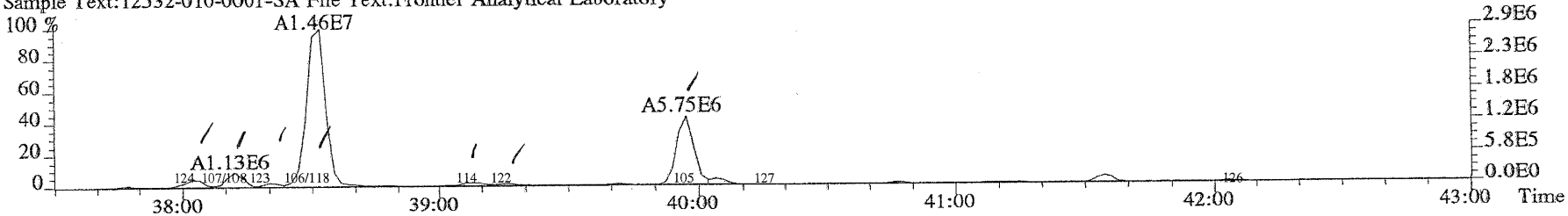
File:24JUL19Z #1-181 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



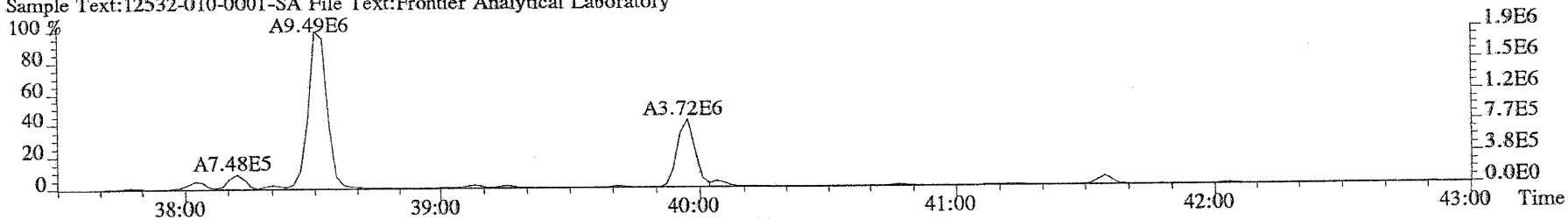
File:24JUL19Z #1-181 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



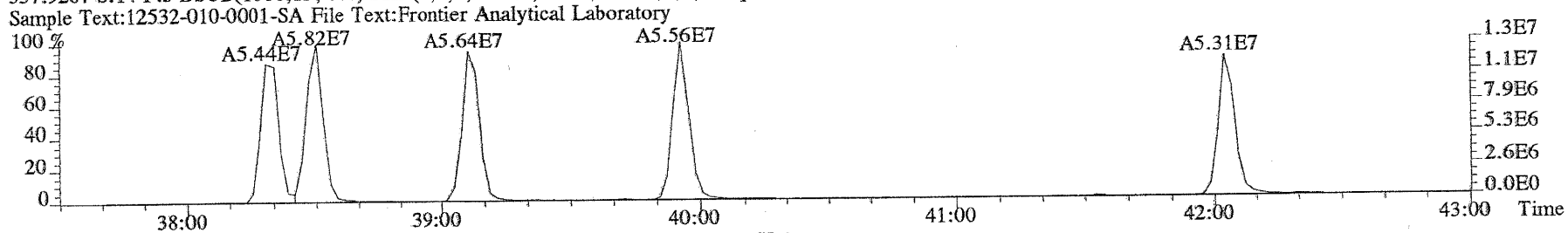
File:24JUL19Z #1-405 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



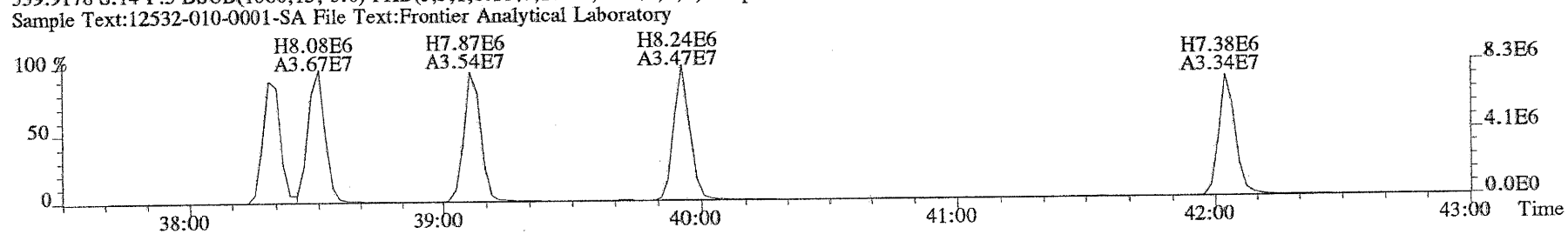
File:24JUL19Z #1-405 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



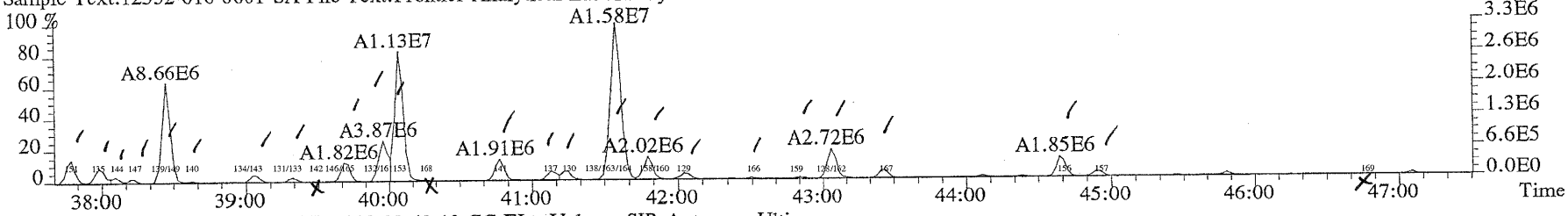
File:24JUL19Z #1-405 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



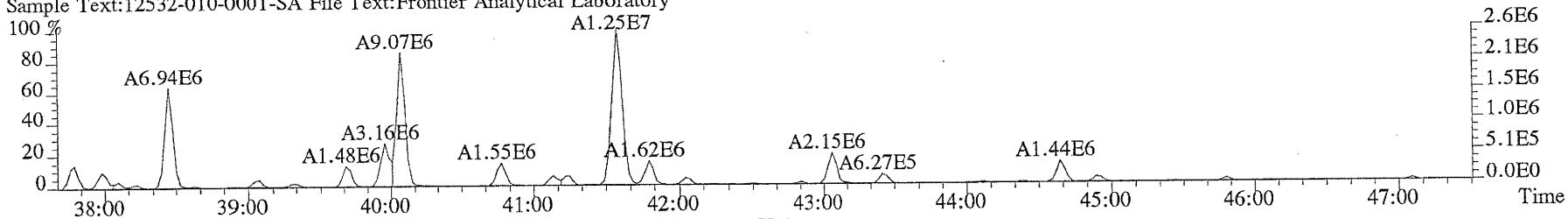
File:24JUL19Z #1-405 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



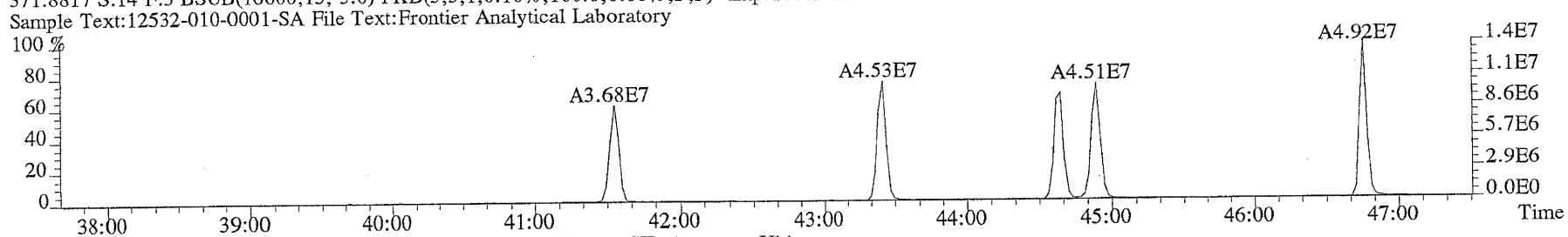
File:24JUL19Z #1-405 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
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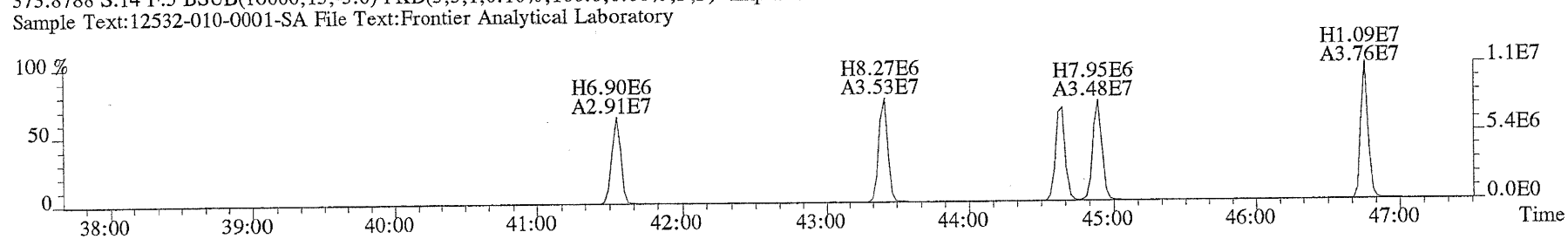
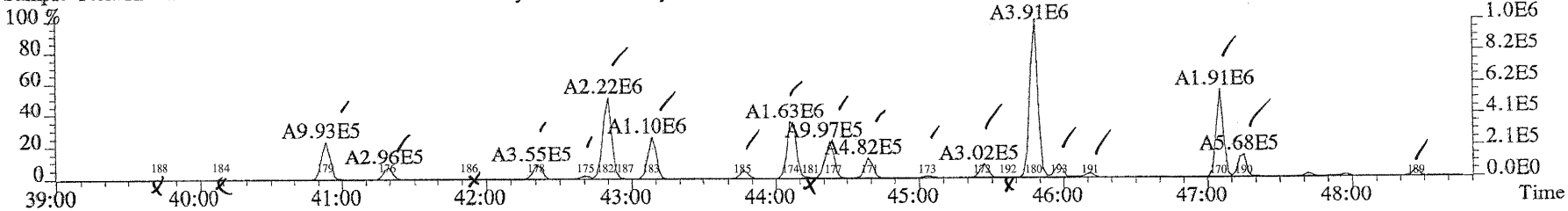
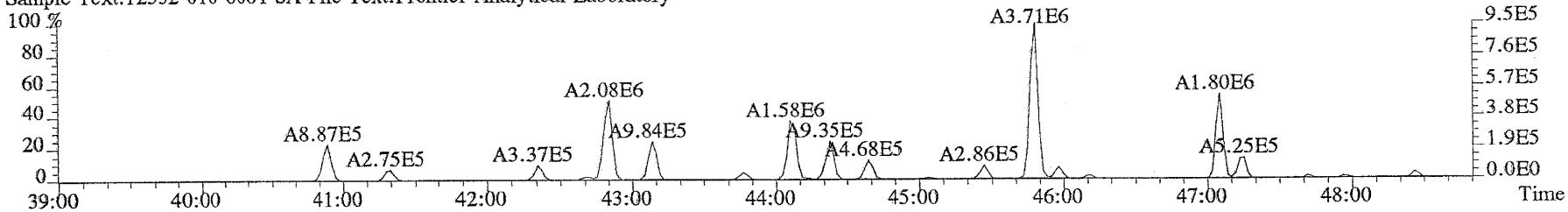
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



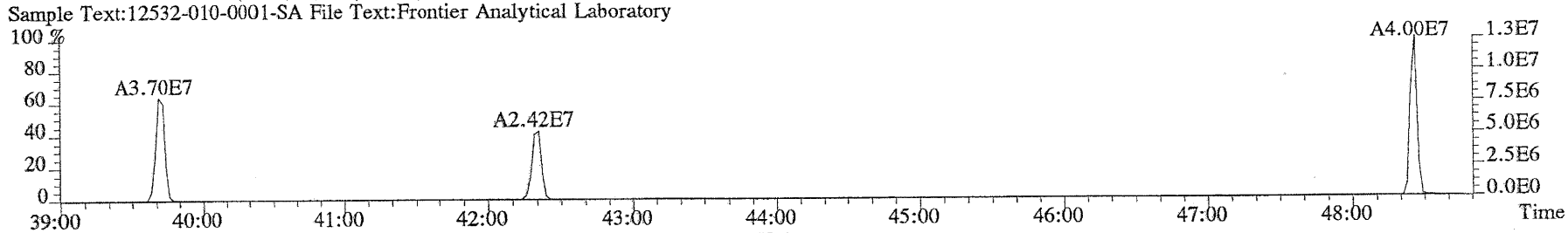
File:24JUL19Z #1-405 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



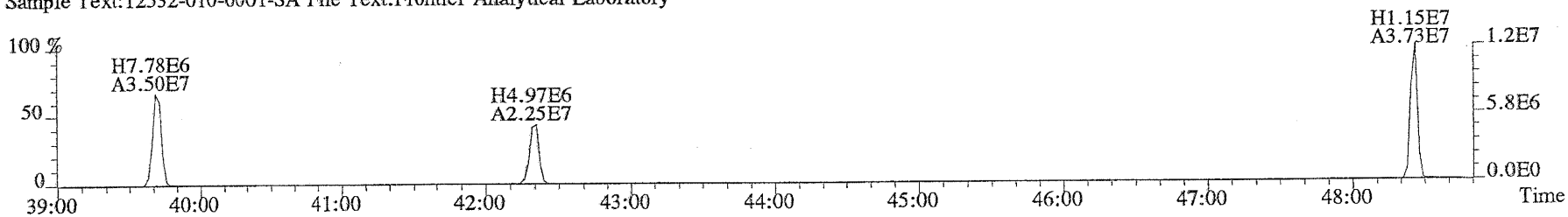
File:24JUL19Z #1-405 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



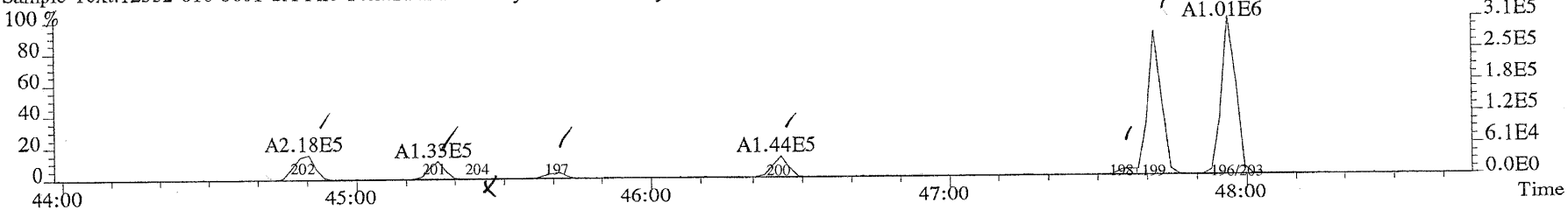
File:24JUL19Z #1-405 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



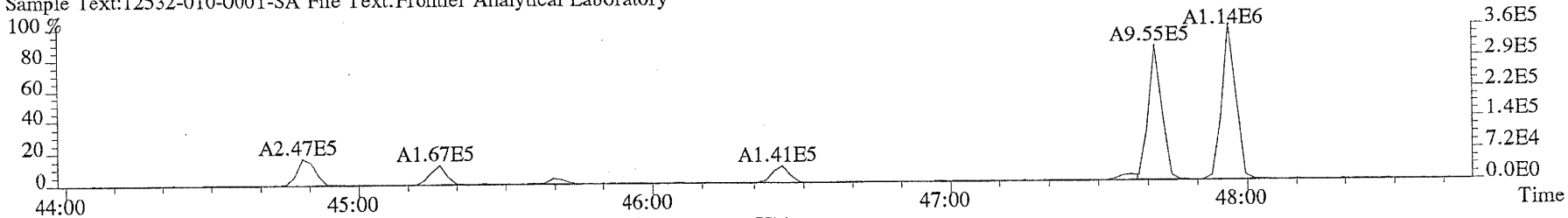
File:24JUL19Z #1-405 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory

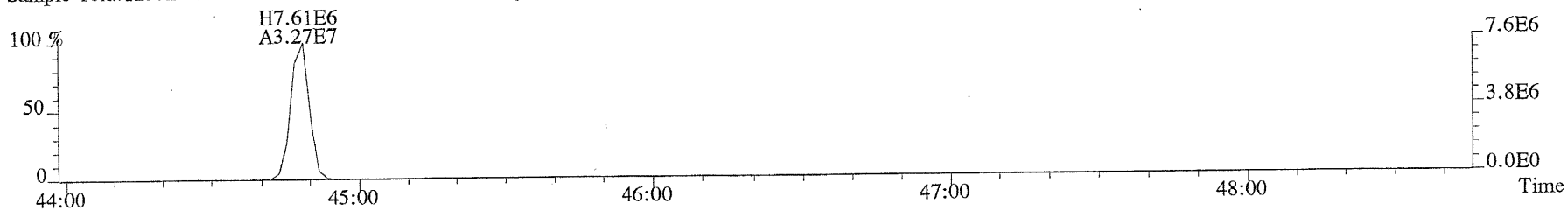


File:24JUL19Z #1-405 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory

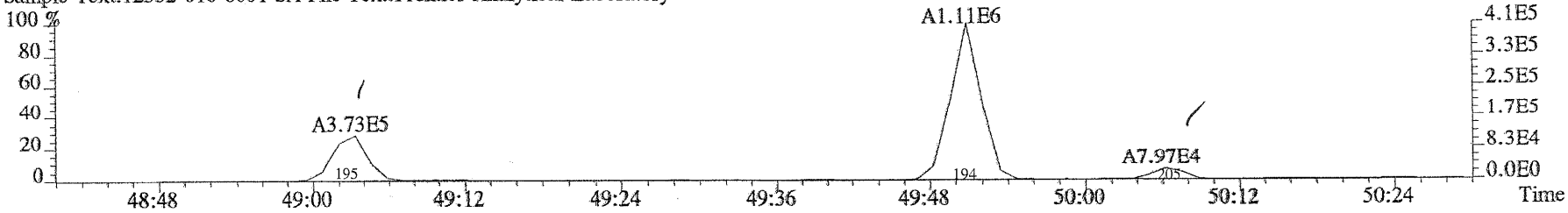


File:24JUL19Z #1-405 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory

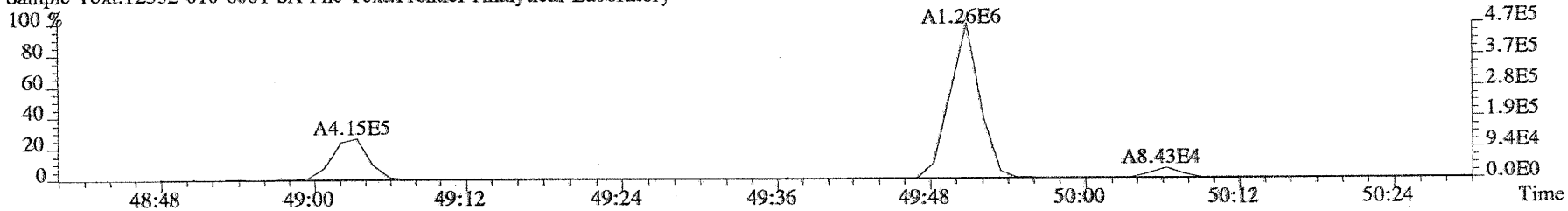
File:24JUL19Z #1-405 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



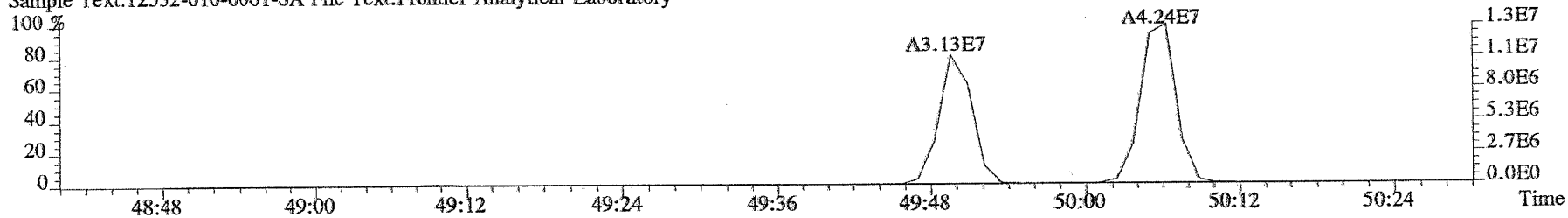
File:24JUL19Z #1-315 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



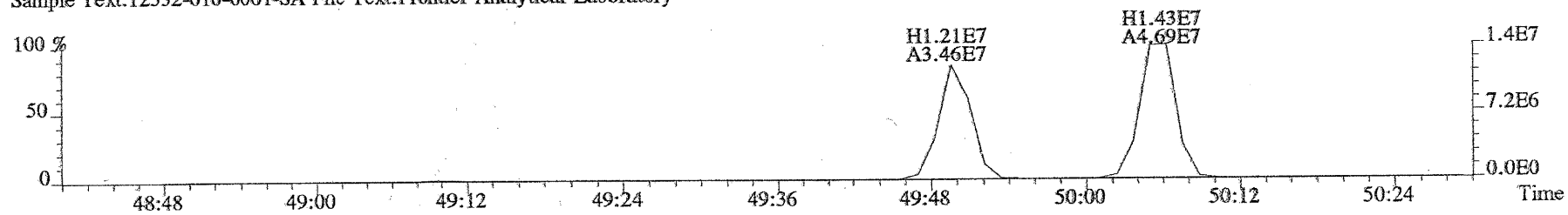
File:24JUL19Z #1-315 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



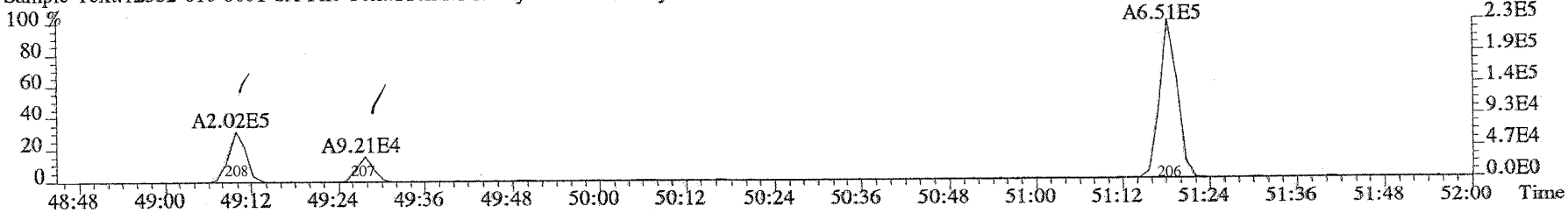
File:24JUL19Z #1-315 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



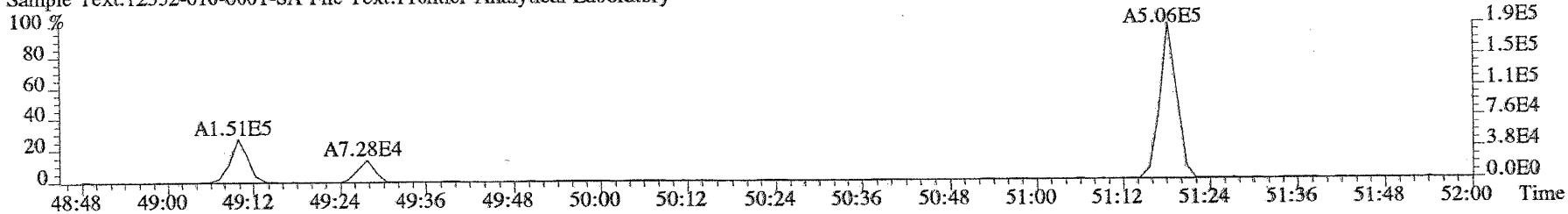
File:24JUL19Z #1-315 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



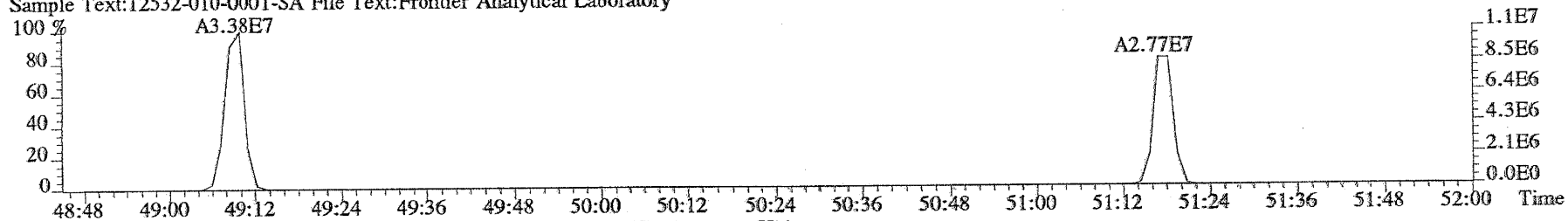
File:24JUL19Z #1-315 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



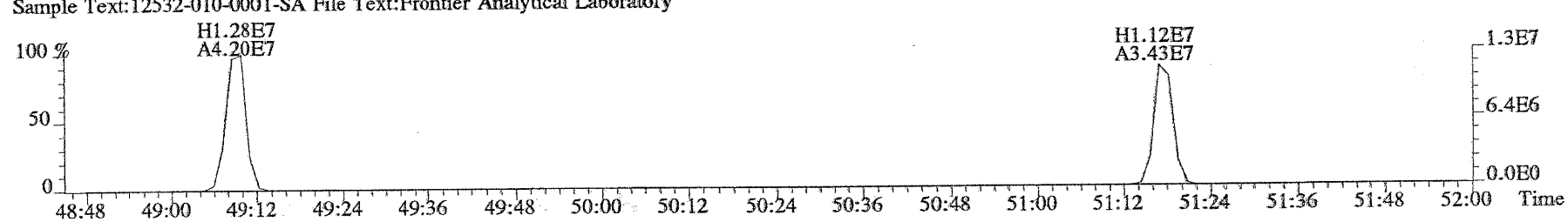
File:24JUL19Z #1-315 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



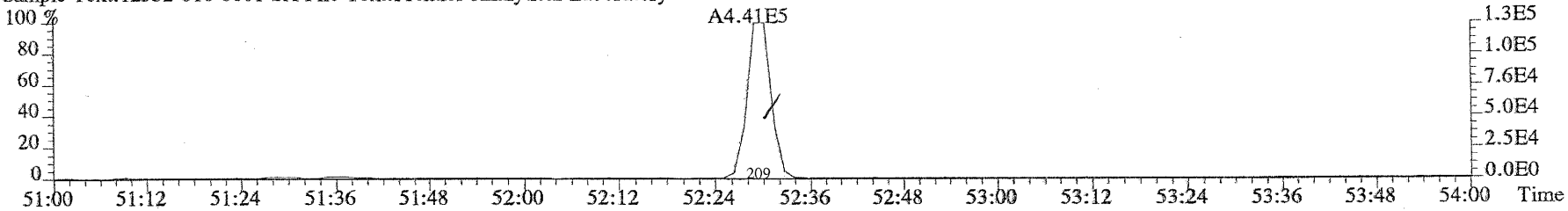
File:24JUL19Z #1-315 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



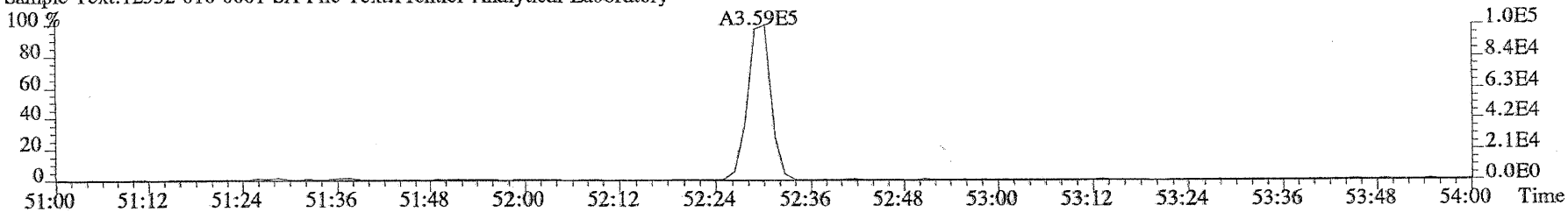
File:24JUL19Z #1-315 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



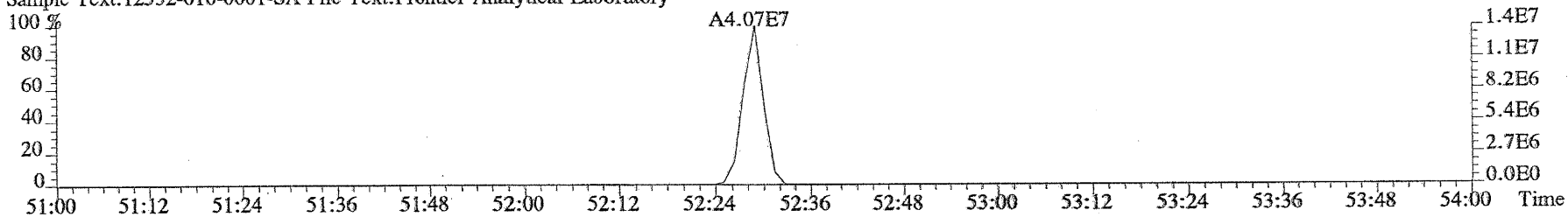
File:24JUL19Z #1-315 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



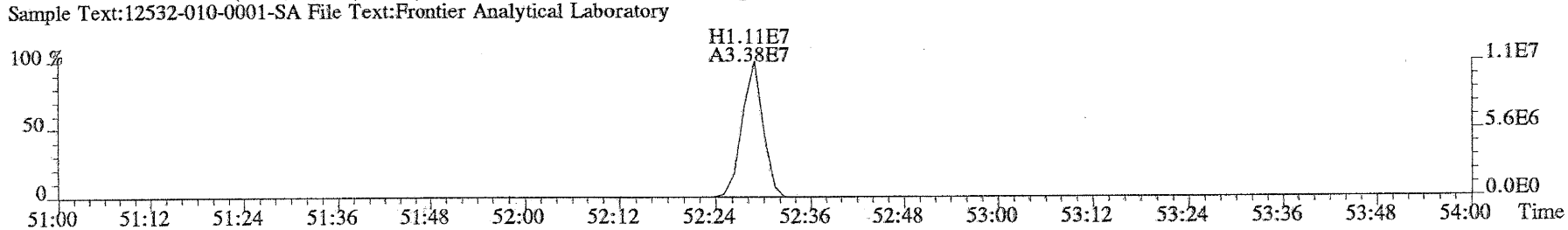
File:24JUL19Z #1-315 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 23:43:12 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-010-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12532-011-0001-SA Filename: 25JUL19Z Sam:5 Acquired: 25-JUL-19 15:05:09 ICal: DAILY209FAL4-7-25-19
Client ID: LDW-Y2-IN-ENR+AC-CB-CORE ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 5.040

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.86e+06	3.02 y	14:33	1.17	92.2		-	-	*	
13C-PCB-1	3.44e+07	3.14 y	14:31	0.90	1680					84.7
PCB-2	2.34e+05	2.93 y	16:47	1.20	12.0		-	-	*	
PCB-3	7.94e+05	3.26 y	16:59	1.20	44.3		-	-	*	
13C-PCB-3	2.97e+07	3.12 y	16:58	0.87	1500					75.6
PCB-4	5.80e+05	1.53 y	18:13	1.10	43.6		-	-	*	
PCB-10	3.88e+05	1.45 y	18:15	1.40	17.8		-	-	*	
13C-PCB-4	2.40e+07	1.60 y	18:12	0.66	1610					81.2
PCB-9	3.68e+05	1.40 y	19:56	1.32	17.9		-	-	*	
PCB-7	3.23e+05	1.65 y	19:57	1.48	14.0		-	-	*	
PCB-6	1.45e+06	1.47 y	20:32	1.39	66.9		-	-	*	
PCB-8	3.60e+06	1.51 y	20:54	1.34	172		-	-	*	
PCB-5	*	* n	NotFnd	1.36	*		817	2550	1.75	
PCB-14	*	* n	NotFnd	1.30	*		817	2550	1.84	
PCB-11	4.64e+05	1.47 y	23:06	1.23	24.2		-	-	*	
PCB-13	2.64e+05	1.48 y	23:25	1.18	14.3		-	-	*	
PCB-12	3.79e+05	1.55 y	23:27	1.23	19.8		-	-	*	
PCB-15	1.88e+06	1.54 y	23:46	1.10	89.1		-	-	*	
13C-PCB-15	3.79e+07	1.67 y	23:45	0.90	1860					93.8
PCB-19	2.34e+05	1.14 y	22:08	1.19	18.6		-	-	*	
PCB-30	*	* n	NotFnd	1.80	*		600	620	0.669	
PCB-18	2.08e+06	1.06 y	23:40	1.17	168		-	-	*	
PCB-17	1.03e+06	1.16 y	23:50	1.29	75.7		-	-	*	
PCB-27	2.24e+05	1.15 y	24:21	1.65	12.8		-	-	*	
PCB-24	1.71e+05	1.17 y	24:22	1.76	9.19		-	-	*	
PCB-16	7.82e+05	1.10 y	24:51	1.43	51.6		-	-	*	
PCB-32	7.20e+05	1.12 y	24:52	1.46	46.5		-	-	*	
13C-PCB-19	2.10e+07	1.09 y	22:07	0.49	1890					95.3
13C-PCB-9	4.51e+07	1.60 y	19:53	-	5.46					
PCB-34	*	* n	NotFnd	1.20	*		650	644	0.760	
PCB-23	*	* n	NotFnd	1.47	*		650	644	0.619	
PCB-29	*	* n	NotFnd	1.34	*		650	644	0.679	
PCB-26	2.65e+06	1.11 y	26:09	1.27	114		-	-	*	
PCB-25	1.36e+06	1.05 y	26:17	1.26	58.9		-	-	*	
PCB-31	4.70e+06	1.07 y	26:38	1.28	201		-	-	*	
PCB-28	6.15e+06	1.06 y	26:44	1.51	223		-	-	*	
PCB-20	2.88e+06	1.07 y	27:19	1.26	124		-	-	*	Co-elute PCB 21/33
PCB-21	2.88e+06	1.07 y	27:19	1.26	124		-	-	*	Co-elute PCB 20/33
PCB-33	2.88e+06	1.07 y	27:19	1.26	124		-	-	*	Co-elute PCB 20/21
PCB-22	1.84e+06	1.05 y	27:43	1.40	71.4		-	-	*	
PCB-36	*	* n	NotFnd	1.25	*		650	644	0.732	
PCB-39	*	* n	NotFnd	1.24	*		650	644	0.734	
PCB-38	*	* n	NotFnd	1.29	*		650	644	0.705	
PCB-35	2.04e+05	1.05 y	30:02	1.13	9.81		-	-	*	
PCB-37	1.70e+06	1.15 y	30:30	1.19	77.9		-	-	*	
13C-PCB-37	3.64e+07	1.03 y	30:29	1.40	1930					97.1

PCB-54	4.57e+04	0.82	y	25:39	1.22	2.68	J	-	-	*	
PCB-50	2.22e+04	0.71	y	26:45	0.89	1.79	J	-	-	*	
PCB-53	7.05e+05	0.76	y	27:22	0.86	58.5		-	-	*	
PCB-51	1.92e+05	0.77	y	27:41	0.92	14.9		-	-	*	
PCB-45	4.27e+05	0.84	y	28:06	0.74	41.3		-	-	*	
PCB-46	1.68e+05	0.68	y	28:34	0.70	17.1		-	-	*	
PCB-52	1.28e+07	0.78	y	29:01	0.90	1020		-	-	*	Co-elute PCB 69
PCB-69	1.28e+07	0.78	y	29:01	0.90	1020		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.12	*		640	620	0.794	
PCB-43	5.91e+06	0.80	y	29:18	0.78	543		-	-	*	Co-elute PCB 49
PCB-49	5.91e+06	0.80	y	29:18	0.78	543		-	-	*	Co-elute PCB 43
PCB-47	1.81e+06	0.78	y	29:30	0.85	153		-	-	*	
PCB-48	9.76e+05	0.75	y	29:36	1.01	69.2		-	-	*	Co-elute PCB 75
PCB-75	9.76e+05	0.75	y	29:36	1.01	69.2		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*		640	620	0.873	
PCB-62	*	*	n	NotFnd	1.07	*		640	620	0.828	
PCB-44	5.16e+06	0.78	y	30:19	0.67	556		-	-	*	
PCB-42	1.74e+06	0.79	y	30:34	0.89	140		-	-	*	Co-elute PCB 59
PCB-59	1.74e+06	0.79	y	30:34	0.89	140		-	-	*	Co-elute PCB 42
PCB-72	4.75e+06	0.77	y	31:12	1.00	340		-	-	*	Co-elute PCB 41/71/64
PCB-41	4.75e+06	0.77	y	31:12	1.00	340		-	-	*	Co-elute PCB 72/71/64
PCB-71	4.75e+06	0.77	y	31:12	1.00	340		-	-	*	Co-elute PCB 72/41/64
PCB-64	4.75e+06	0.77	y	31:12	1.00	340		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.43e+05	0.81	y	31:21	1.14	9.00		-	-	*	
PCB-40	4.87e+05	0.71	y	31:31	0.61	57.2		-	-	*	
PCB-57	1.26e+05	0.80	y	31:49	1.07	8.41		-	-	*	
PCB-67	2.81e+05	0.83	y	32:06	0.99	20.3		-	-	*	
PCB-58	4.95e+04	0.88	y	32:13	1.11	3.18	J	-	-	*	
PCB-63	2.85e+05	0.81	y	32:22	1.05	19.4		-	-	*	
PCB-74	3.18e+06	0.81	y	32:38	1.02	223		-	-	*	
PCB-61	9.50e+06	0.77	y	32:49	0.97	703		-	-	*	Co-elute PCB 70
PCB-70	9.50e+06	0.77	y	32:49	0.97	703		-	-	*	Co-elute PCB 61
PCB-76	7.42e+06	0.78	y	33:01	1.05	505		-	-	*	Co-elute PCB 66
PCB-66	7.42e+06	0.78	y	33:01	1.05	505		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.24	*		640	620	0.715	
PCB-55	2.95e+05	0.74	y	33:29	1.06	19.9		-	-	*	
13C-PCB-54	2.77e+07	0.82	y	25:38	1.36	1510					76.1
PCB-104	*	*	n	NotFnd	1.10	*		404	343	0.595	
PCB-96	1.01e+05	1.53	y	31:25	1.04	7.86		-	-	*	
PCB-103	1.61e+05	1.45	y	31:49	0.84	15.4		-	-	*	
PCB-100	9.07e+04	1.69	y	32:09	0.85	8.62		-	-	*	
PCB-94	6.19e+04	1.55	y	32:34	0.69	7.30		-	-	*	
PCB-98	*	*	n	NotFnd	0.69	*		404	343	0.948	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.69	*		404	343	0.948	Co-elute PCB 98
PCB-95	1.29e+07	1.54	y	33:06	0.77	1360		-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*		404	343	0.840	
PCB-88	2.26e+06	1.56	y	33:27	0.83	220		-	-	*	Co-elute PCB 91
PCB-91	2.26e+06	1.56	y	33:27	0.83	220		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.89	*		404	343	0.735	
13C-PCB-104	2.46e+07	1.59	y	30:08	1.06	1710					86.3
13C-PCB-28	4.94e+07	1.06	y	26:43	1.72	2130					107
13C-PCB-52	2.68e+07	0.79	y	28:58	-	7.08					

PCB-56	3.62e+06	0.80	y	33:60	1.17	246			-	-	*	Co-elute PCB 60
PCB-60	3.62e+06	0.80	y	33:60	1.17	246			-	-	*	Co-elute PCB 56
PCB-79	4.52e+05	0.84	y	34:59	1.22	29.6			-	-	*	
PCB-78	1.51e+05	0.73	y	35:35	1.16	10.4			-	-	*	
PCB-81	7.14e+05	0.78	y	36:11	1.25	45.9			-	-	*	
13C-PCB-81	2.48e+07	0.80	y	36:09	1.37	1770						89.4
PCB-77	9.09e+05	0.84	y	36:44	1.06	68.0			-	-	*	
13C-PCB-77	2.50e+07	0.80	y	36:43	1.44	1710						86.0
PCB-155	*	*	n	NotFnd	1.04	*			832	452	0.889	
PCB-150	6.39e+04	1.34	y	35:26	0.95	5.01			-	-	*	
PCB-152	2.81e+04	1.21	y	35:54	0.90	2.32		J	-	-	*	
PCB-145	*	*	n	NotFnd	0.93	*			832	452	0.995	
PCB-136	2.99e+06	1.24	y	36:37	0.93	238			-	-	*	
PCB-148	*	*	n	NotFnd	0.62	*			832	452	1.48	
PCB-154	3.05e+05	1.29	y	37:10	0.75	30.2			-	-	*	
13C-PCB-155	2.67e+07	1.27	y	34:13	1.44	1820						91.8
13C-PCB-111	2.47e+07	1.57	y	36:16	1.22	1990						100
13C-PCB-101	2.02e+07	1.59	y	34:39	-	6.59						
PCB-84	7.14e+06	1.58	y	34:19	0.83	671			-	-	*	Co-elute PCB 92
PCB-92	7.14e+06	1.58	y	34:19	0.83	671			-	-	*	Co-elute PCB 84
PCB-89	1.51e+05	1.48	y	34:30	0.81	14.5			-	-	*	
PCB-90	1.85e+07	1.56	y	34:40	0.89	1630			-	-	*	Co-elute PCB 101
PCB-101	1.85e+07	1.56	y	34:40	0.89	1630			-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.02	*			496	373	0.696	
PCB-99	8.98e+06	1.51	y	34:59	0.98	717			-	-	*	
PCB-119	5.81e+05	1.41	y	35:26	1.13	40.0			-	-	*	
PCB-83	8.55e+05	1.42	y	35:35	0.90	74.2			-	-	*	Co-elute PCB 112
PCB-112	8.55e+05	1.42	y	35:35	0.90	74.2			-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.08	*			496	373	0.656	
PCB-97	5.07e+06	1.57	y	35:55	0.73	545			-	-	*	
PCB-86	*	*	n	NotFnd	0.79	*			496	373	0.897	
PCB-125	7.98e+06	1.55	y	36:10	0.97	641			-	-	*	Co-elute PCB 87/117
PCB-87	7.98e+06	1.55	y	36:10	0.97	641			-	-	*	Co-elute PCB 125/117
PCB-117	7.98e+06	1.55	y	36:10	0.97	641			-	-	*	Co-elute PCB 125/87
PCB-111	4.99e+05	1.54	y	36:19	1.13	34.3			-	-	*	Co-elute PCB 115
PCB-115	4.99e+05	1.54	y	36:19	1.13	34.3			-	-	*	Co-elute PCB 111
PCB-85	3.02e+06	1.54	y	36:25	0.97	242			-	-	*	Co-elute PCB 116
PCB-116	3.02e+06	1.54	y	36:25	0.97	242			-	-	*	Co-elute PCB 85
PCB-120	1.08e+05	1.69	y	36:37	1.18	7.14			-	-	*	
PCB-110	2.68e+07	1.58	y	36:48	1.10	1890			-	-	*	
PCB-82	1.58e+06	1.58	y	37:23	0.62	198			-	-	*	
PCB-124	1.16e+06	1.43	y	38:03	1.10	82.3			-	-	*	
PCB-108	1.68e+06	1.65	y	38:11	1.20	109			-	-	*	Co-elute PCB 107
PCB-107	1.68e+06	1.65	y	38:11	1.20	109			-	-	*	Co-elute PCB 108
PCB-123	3.72e+05	1.39	y	38:21	1.01	30.7			-	-	*	
13C-PCB-123	2.38e+07	1.58	y	38:19	1.31	1860						93.6
PCB-118	2.18e+07	1.57	y	38:31	1.09	1460			-	-	*	Co-elute PCB 106
PCB-106	2.18e+07	1.57	y	38:31	1.09	1460			-	-	*	Co-elute PCB 118
13C-PCB-118	2.72e+07	1.60	y	38:29	1.46	1920						96.5
PCB-114	5.41e+05	1.48	y	39:09	1.14	36.8			-	-	*	
13C-PCB-114	2.57e+07	1.58	y	39:07	1.34	1980						99.6
PCB-122	3.28e+05	1.56	y	39:15	1.16	22.0			-	-	*	
PCB-105	8.23e+06	1.56	y	39:57	1.19	545			-	-	*	
13C-PCB-105	2.51e+07	1.60	y	39:55	1.32	1960						98.7

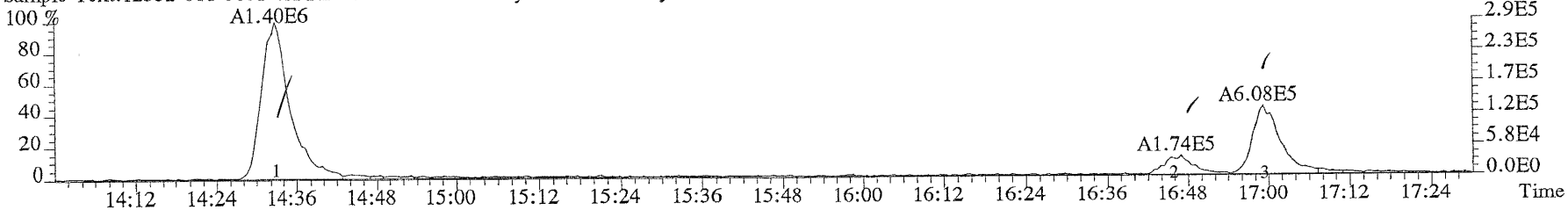
PCB-127	*	*	n	NotFnd	1.06	*	690	510	0.929	
PCB-126	1.95e+05	1.56	y	42:03	1.13	15.7	-	-	*	
13C-PCB-126	2.17e+07	1.60	y	42:03	1.20	1860				94.0
PCB-151	3.17e+06	1.28	y	37:47	0.98	306	-	-	*	
PCB-135	2.45e+06	1.26	y	38:00	0.92	250	-	-	*	
PCB-144	7.99e+05	1.22	y	38:05	1.05	71.6	-	-	*	
PCB-147	5.04e+05	1.16	y	38:13	1.09	43.7	-	-	*	
PCB-139	1.50e+07	1.28	y	38:26	1.08	1310	-	-	*	Co-elute PCB 149
PCB-149	1.50e+07	1.28	y	38:26	1.08	1310	-	-	*	Co-elute PCB 139
PCB-140	1.73e+05	1.13	y	38:38	1.07	15.3	-	-	*	
PCB-143	1.05e+06	1.33	y	39:04	0.86	116	-	-	*	Co-elute PCB 134
PCB-134	1.05e+06	1.33	y	39:04	0.86	116	-	-	*	Co-elute PCB 143
PCB-131	5.78e+05	1.33	y	39:19	0.85	64.2	-	-	*	Co-elute PCB 133
PCB-133	5.78e+05	1.33	y	39:19	0.85	64.2	-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.86	*	500	420	1.01	
PCB-165	2.89e+06	1.25	y	39:42	1.17	234	-	-	*	Co-elute PCB 146
PCB-146	2.89e+06	1.25	y	39:42	1.17	234	-	-	*	Co-elute PCB 165
PCB-161	6.18e+06	1.25	y	39:57	1.07	545	-	-	*	Co-elute PCB 132
PCB-132	6.18e+06	1.25	y	39:57	1.07	545	-	-	*	Co-elute PCB 161
PCB-153	1.88e+07	1.28	y	40:03	1.16	1530	-	-	*	
PCB-168	*	*	n	NotFnd	1.27	*	500	420	0.683	
PCB-141	3.23e+06	1.25	y	40:46	0.93	329	-	-	*	
PCB-137	1.14e+06	1.28	y	41:09	0.87	123	-	-	*	
PCB-130	1.43e+06	1.27	y	41:14	0.85	159	-	-	*	
PCB-138	2.46e+07	1.29	y	41:34	1.13	2060	-	-	*	Co-elute PCB 163/164
PCB-163	2.46e+07	1.29	y	41:34	1.13	2060	-	-	*	Co-elute PCB 138/164
PCB-164	2.46e+07	1.29	y	41:34	1.13	2060	-	-	*	Co-elute PCB 138/163
PCB-158	3.27e+06	1.30	y	41:49	1.27	243	-	-	*	Co-elute PCB 160
PCB-160	3.27e+06	1.30	y	41:49	1.27	243	-	-	*	Co-elute PCB 158
PCB-129	1.01e+06	1.27	y	42:03	0.79	122	-	-	*	
PCB-166	1.08e+05	1.24	y	42:30	1.20	8.49	-	-	*	
PCB-159	2.10e+05	1.17	y	42:49	1.31	15.2	-	-	*	
PCB-128	4.14e+06	1.23	y	43:03	1.03	379	-	-	*	Co-elute PCB 162
PCB-162	4.14e+06	1.23	y	43:03	1.03	379	-	-	*	Co-elute PCB 128
PCB-167	1.12e+06	1.27	y	43:26	1.13	89.8	-	-	*	
13C-PCB-167	2.19e+07	1.29	y	43:24	1.15	1950				98.3
PCB-156	2.78e+06	1.21	y	44:40	1.23	217	-	-	*	
13C-PCB-156	2.07e+07	1.30	y	44:38	1.11	1910				96.4
PCB-157	7.31e+05	1.18	y	44:55	1.15	58.6	-	-	*	
13C-PCB-157	2.14e+07	1.30	y	44:53	1.14	1930				97.2
PCB-169	*	*	n	NotFnd	1.11	*	500	420	0.749	
13C-PCB-169	2.00e+07	1.28	y	46:45	1.08	1910				96.0

FAL ID: 12532-011-0001-SA Filename: 25JUL19Z Sam:5 Acquired: 25-JUL-19 15:05:09 ICal: DAILY209FAL4-7-25-19
Client ID: LDW-Y2-IN-ENR+AC-CB-CORE ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 5.040

PCB-188	2.88e+04	1.17	y	39:43	1.06	2.50	J	-	-	*	
13C-PCB-188	2.16e+07	1.05	y	39:42	1.26	1760					88.5
PCB-184	*	*	n	NotFnd	1.24	*		560	640	0.794	
PCB-179	1.71e+06	1.09	y	40:53	1.13	143		-	-	*	
PCB-176	5.25e+05	1.09	y	41:19	1.08	45.9		-	-	*	
PCB-186	*	*	n	NotFnd	1.13	*		560	640	0.873	
PCB-178	5.72e+05	1.03	y	42:20	0.76	71.3		-	-	*	
PCB-175	1.35e+05	1.14	y	42:40	0.77	16.7		-	-	*	
PCB-187	3.53e+06	1.00	y	42:49	0.86	390		-	-	*	Co-elute PCB 182
PCB-182	3.53e+06	1.00	y	42:49	0.86	390		-	-	*	Co-elute PCB 187
PCB-183	1.73e+06	1.02	y	43:08	0.83	198		-	-	*	
PCB-185	3.10e+05	1.05	y	43:45	0.74	39.5		-	-	*	
PCB-174	2.83e+06	1.02	y	44:07	0.79	338		-	-	*	
PCB-181	*	*	n	NotFnd	0.70	*		560	640	1.40	
PCB-177	1.62e+06	1.04	y	44:22	0.68	224		-	-	*	
PCB-171	8.39e+05	1.08	y	44:38	0.74	107		-	-	*	
PCB-173	6.04e+04	0.90	y	45:03	0.66	8.67		-	-	*	
PCB-172	4.99e+05	1.19	y	45:26	0.69	68.2		-	-	*	
PCB-192	*	*	n	NotFnd	0.94	*		560	640	1.05	
PCB-180	6.18e+06	1.05	y	45:47	0.69	845		-	-	*	
PCB-193	4.30e+05	1.12	y	45:57	0.98	41.3		-	-	*	
PCB-191	1.62e+05	1.10	y	46:10	0.94	16.3		-	-	*	
PCB-170	2.77e+06	1.04	y	47:05	0.66	397		-	-	*	
PCB-190	7.78e+05	1.06	y	47:14	0.93	78.9		-	-	*	
PCB-189	1.80e+05	1.18	y	48:27	1.02	17.2		-	-	*	
13C-PCB-189	2.04e+07	1.04	y	48:25	1.00	2080					105
PCB-202	3.69e+05	0.85	y	44:50	1.04	39.9		-	-	*	
PCB-201	2.50e+05	0.92	y	45:16	1.12	25.1		-	-	*	
PCB-204	*	*	n	NotFnd	1.09	*		340	472	0.801	
PCB-197	8.01e+04	0.77	y	45:41	1.15	7.80		-	-	*	
PCB-200	2.24e+05	0.89	y	46:25	1.10	22.8		-	-	*	
PCB-198	6.49e+04	0.90	y	47:36	0.73	9.95		-	-	*	
PCB-199	1.31e+06	0.91	y	47:41	0.76	192		-	-	*	
PCB-203	1.59e+06	0.90	y	47:56	0.85	210		-	-	*	Co-elute PCB 196
PCB-196	1.59e+06	0.90	y	47:56	0.85	210		-	-	*	Co-elute PCB 203
13C-PCB-202	1.77e+07	0.91	y	44:48	0.97	1880					94.6
13C-PCB-178	1.63e+07	1.06	y	42:20	0.83	2020					102
13C-PCB-138	1.93e+07	1.30	y	41:32	-	6.80					
PCB-195	5.86e+05	0.97	y	49:03	0.77	65.8		-	-	*	
PCB-194	1.65e+06	0.88	y	49:50	0.84	171		-	-	*	
PCB-205	1.31e+05	0.87	y	50:06	1.04	10.8		-	-	*	
13C-PCB-205	2.30e+07	0.88	y	50:04	1.31	1920					96.6
PCB-208	2.67e+05	1.39	y	49:09	1.00	23.8		-	-	*	
13C-PCB-208	2.22e+07	0.80	y	49:09	1.32	1830					92.0
PCB-207	1.16e+05	1.37	y	49:27	1.15	10.7		-	-	*	
PCB-206	6.78e+05	1.40	y	51:18	1.04	84.5		-	-	*	
13C-PCB-206	1.53e+07	0.80	y	51:18	0.97	1710					86.3
PCB-209	8.76e+05	1.21	y	52:31	1.11	83.6		-	-	*	
13C-PCB-209	1.87e+07	1.18	y	52:29	1.23	1650					83.2
13C-PCB-194	1.82e+07	0.92	y	49:49	-	7.26					

Analyst: [illegible] Date: 7/26/19

File:25JUL19Z #1-783 Acq:25-JUL-2019 15:05:09 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:12532-011-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-783 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
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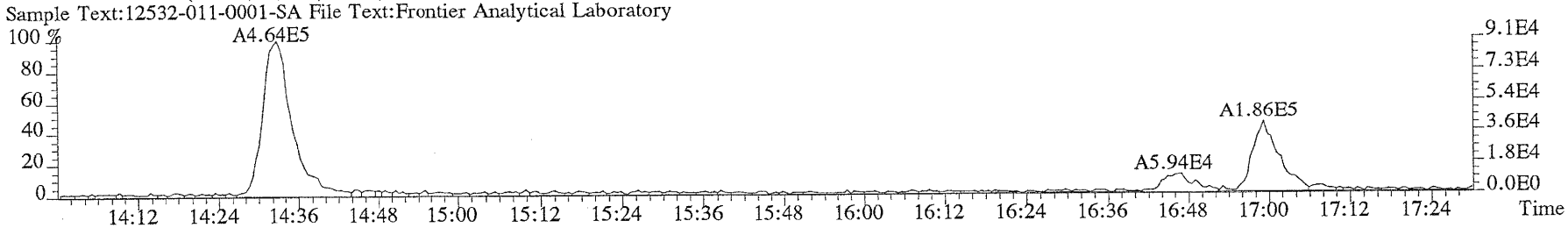

File:25JUL19Z #1-783 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
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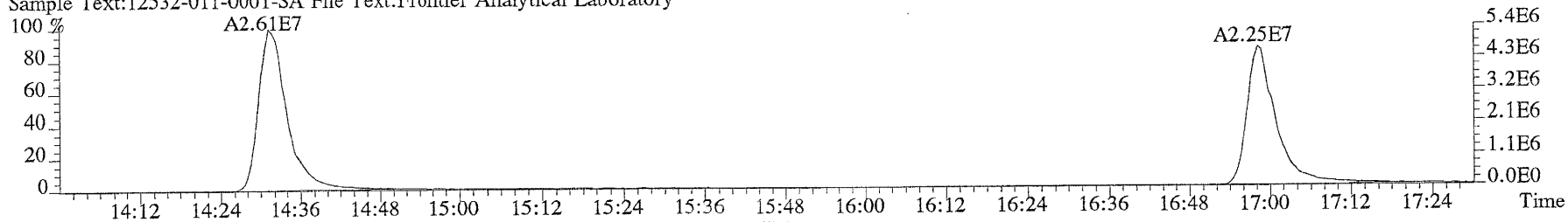
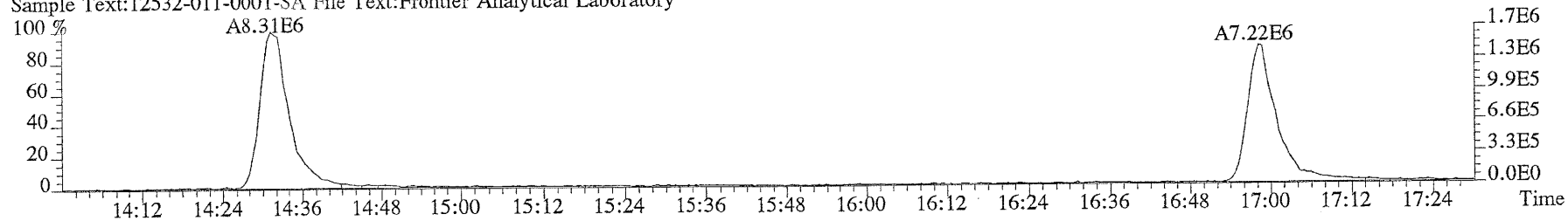
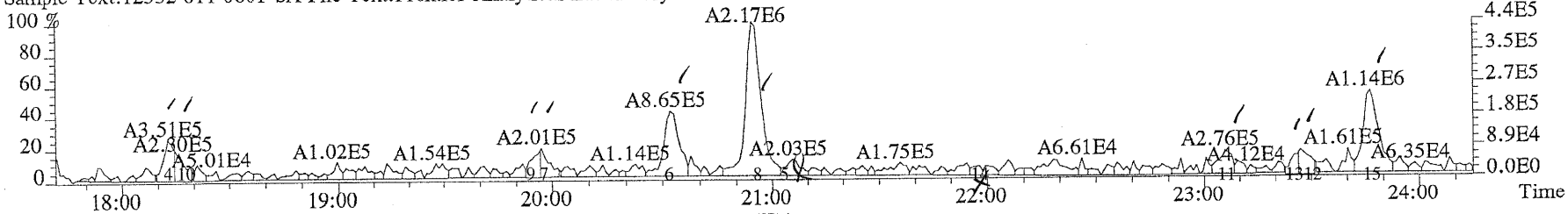
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



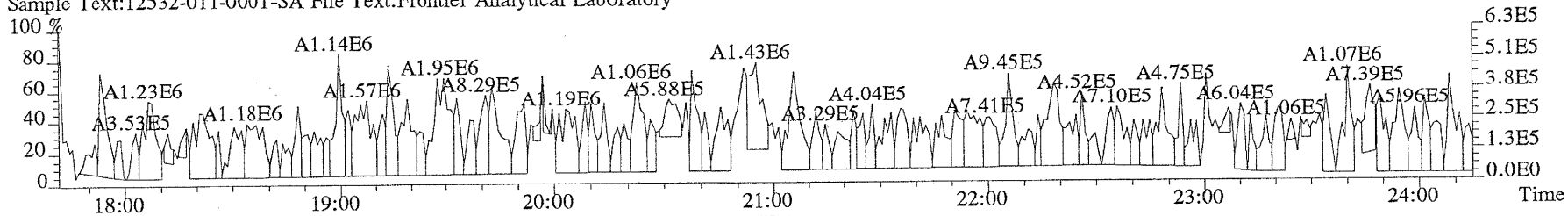
File:25JUL19Z #1-783 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



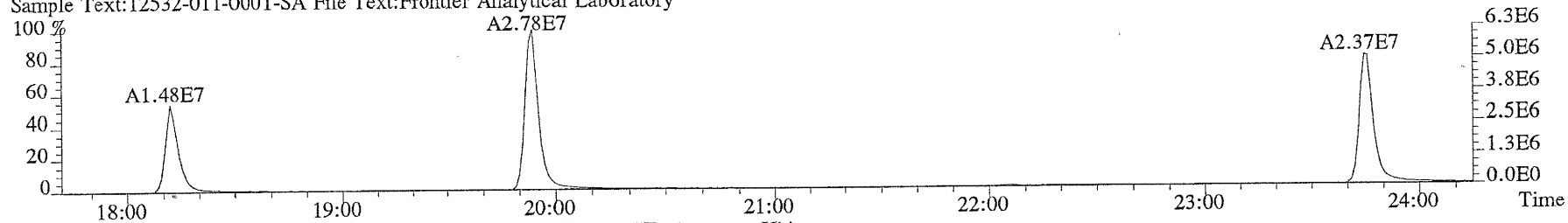
File:25JUL19Z #1-521 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



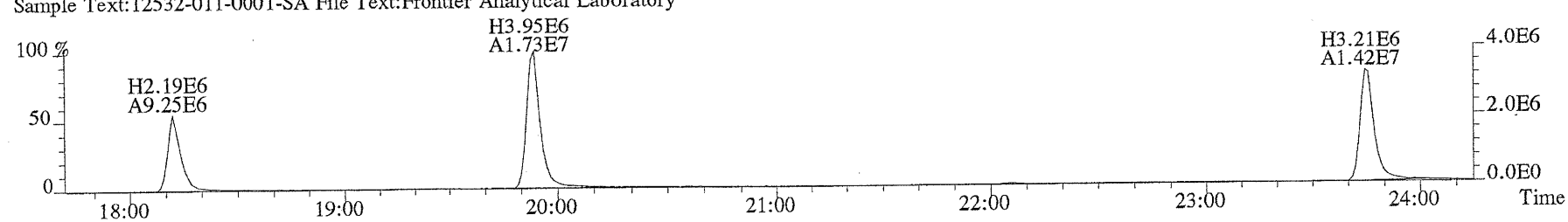
File:25JUL19Z #1-521 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



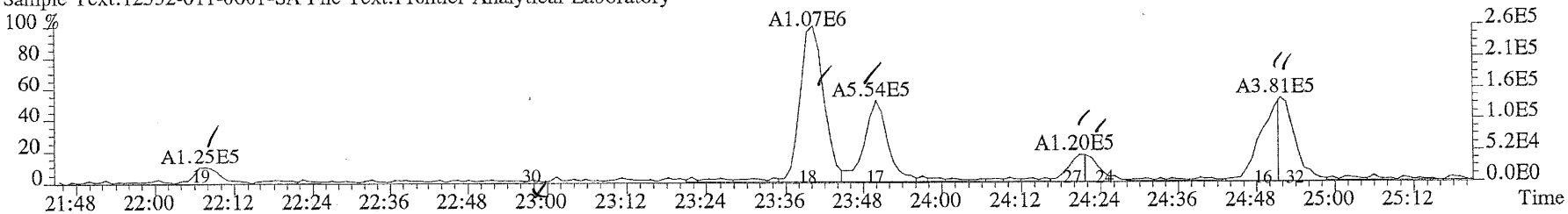
File:25JUL19Z #1-521 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



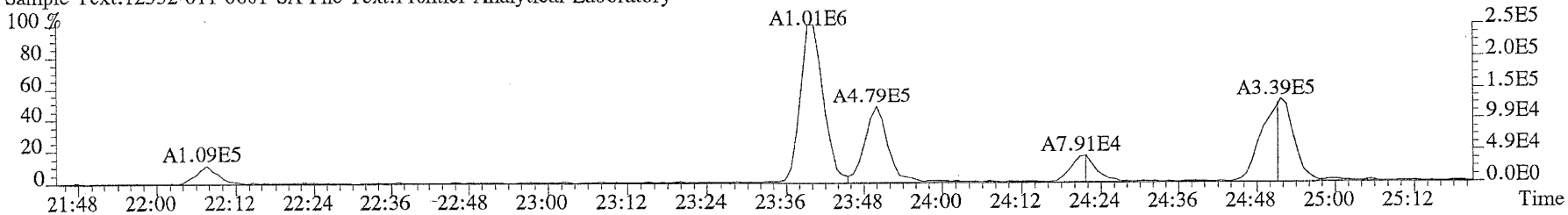
File:25JUL19Z #1-521 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



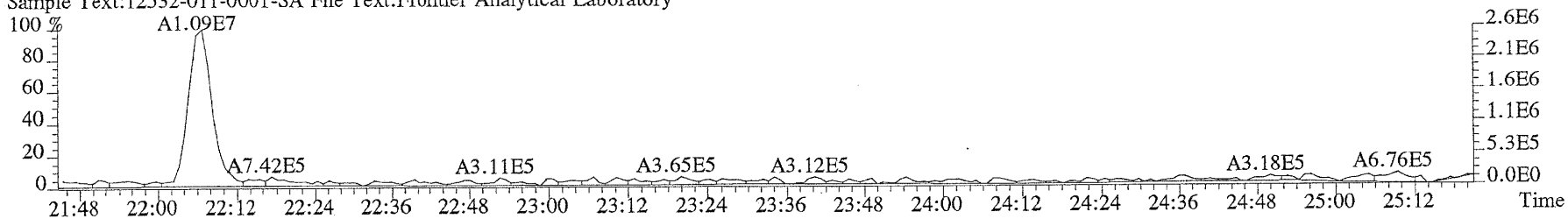
File:25JUL19Z #1-521 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



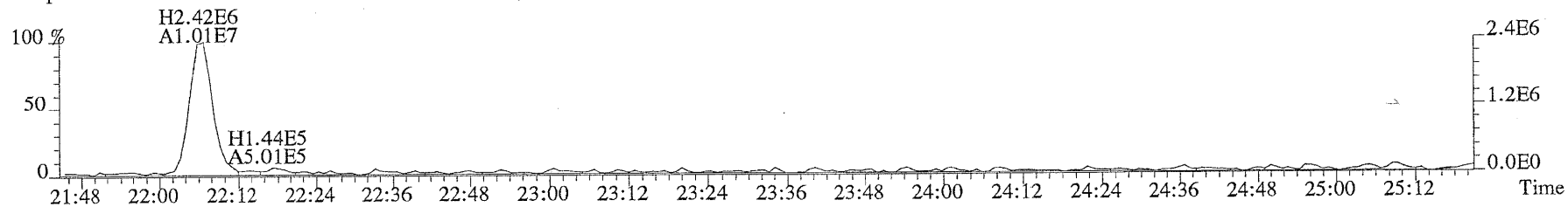
File:25JUL19Z #1-521 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



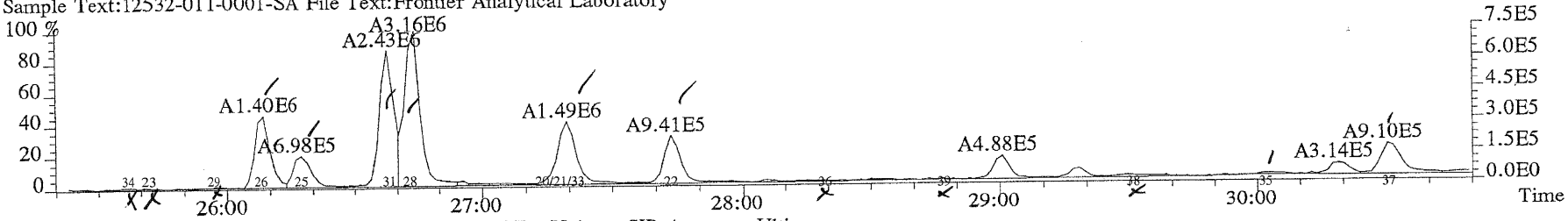
File:25JUL19Z #1-521 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



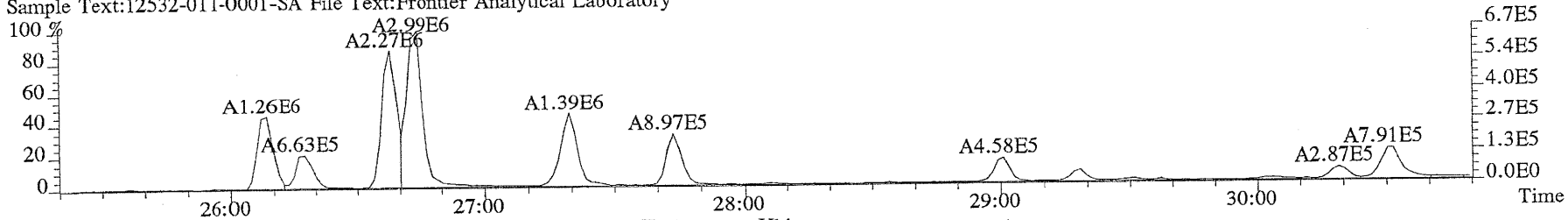
File:25JUL19Z #1-521 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



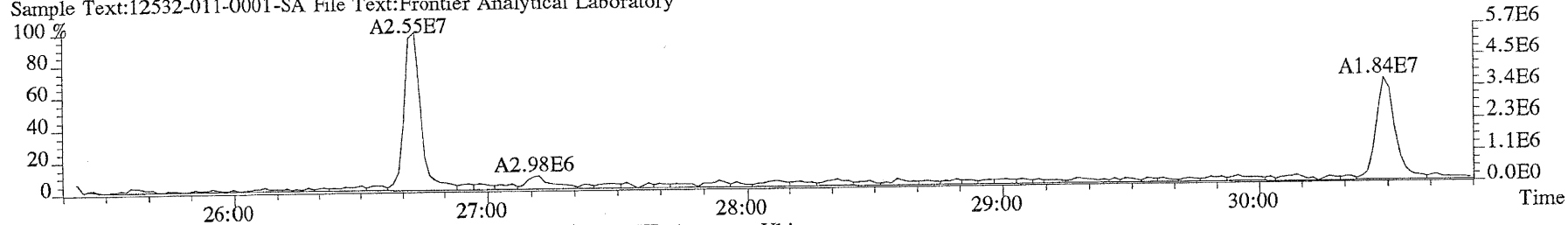
File:25JUL19Z #1-401 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



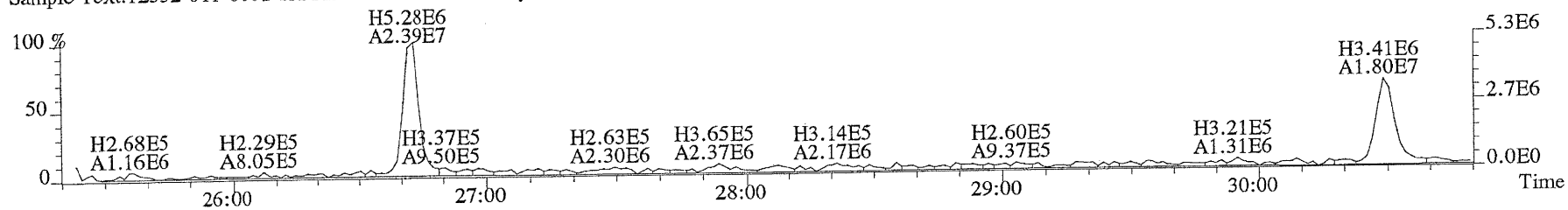
File:25JUL19Z #1-401 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



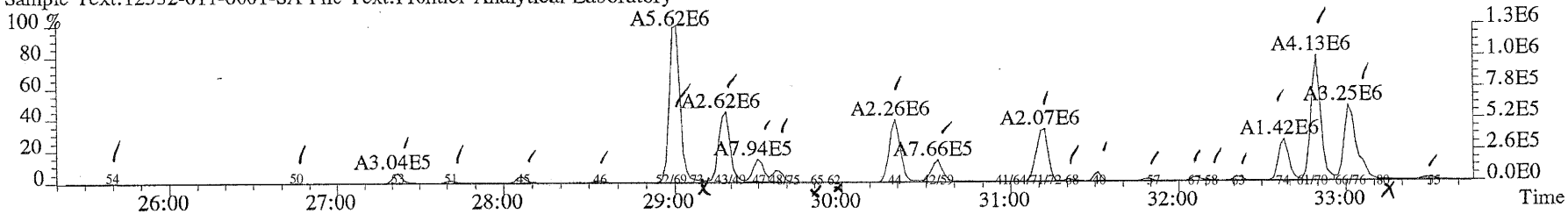
File:25JUL19Z #1-401 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



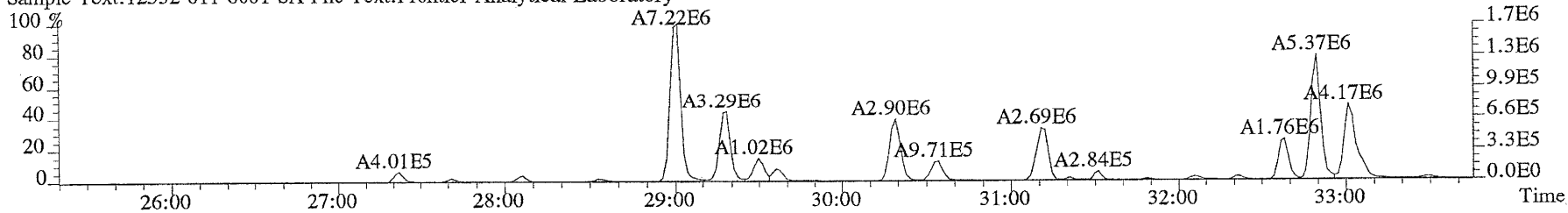
File:25JUL19Z #1-401 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



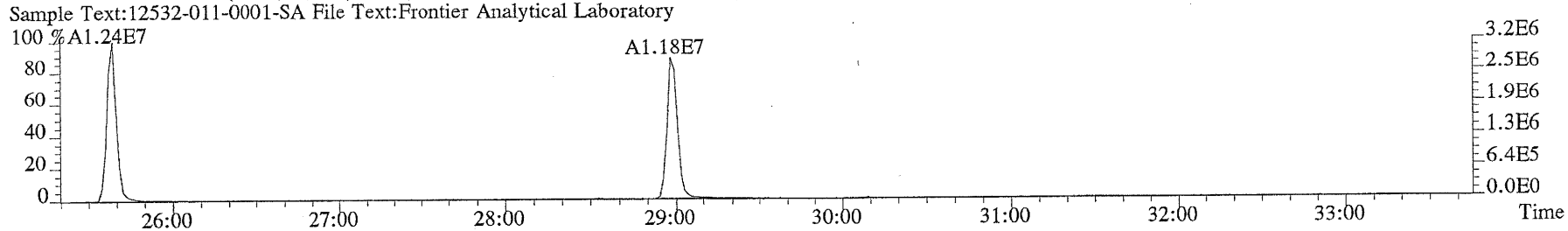
File:25JUL19Z #1-401 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



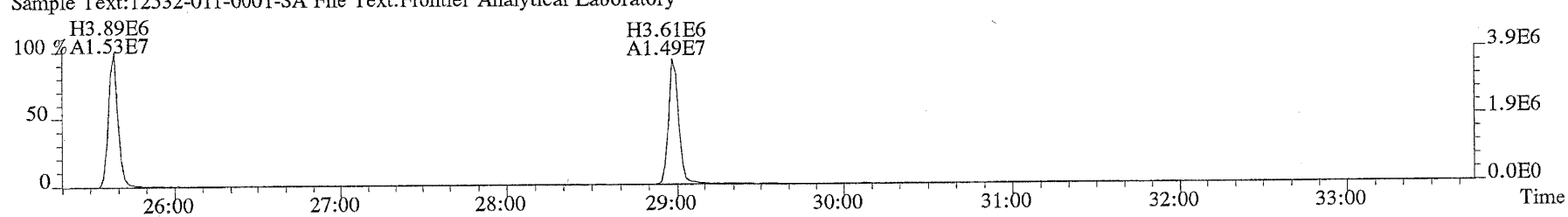
File:25JUL19Z #1-401 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



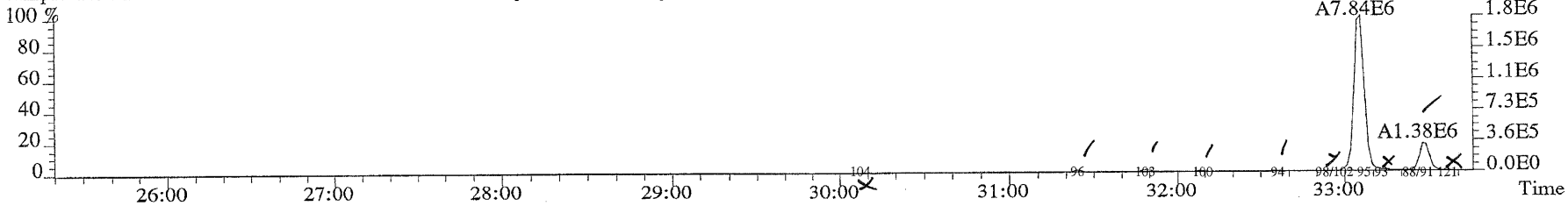
File:25JUL19Z #1-401 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



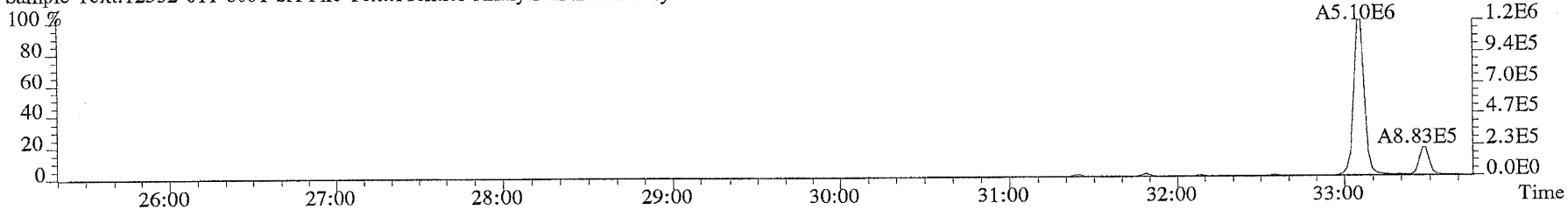
File:25JUL19Z #1-401 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



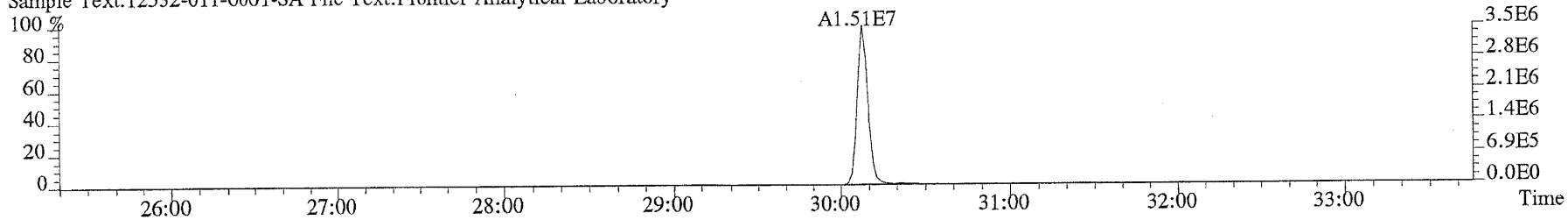
File:25JUL19Z #1-401 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



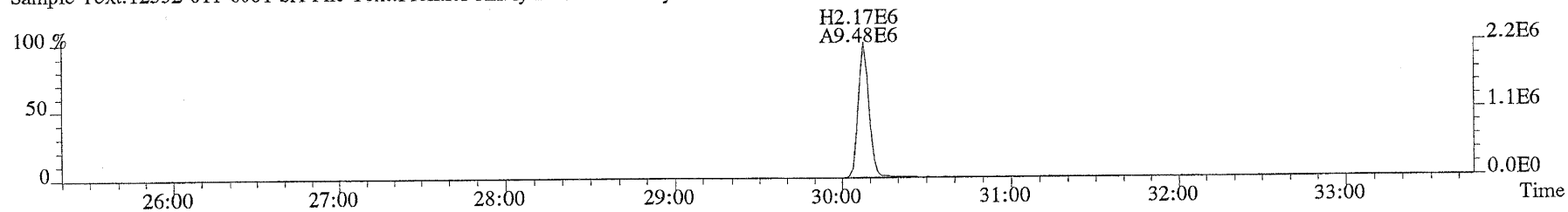
File:25JUL19Z #1-401 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



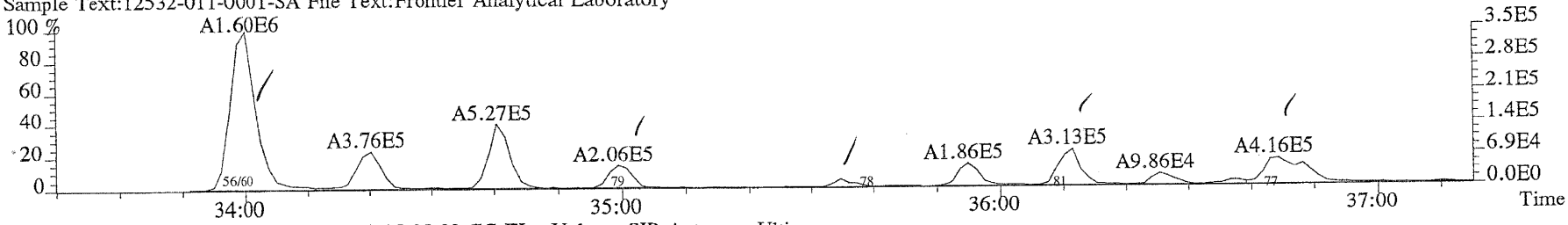
File:25JUL19Z #1-401 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



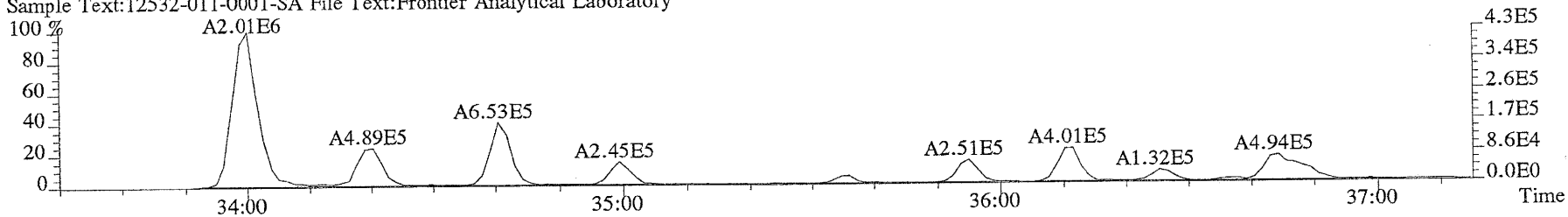
File:25JUL19Z #1-401 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



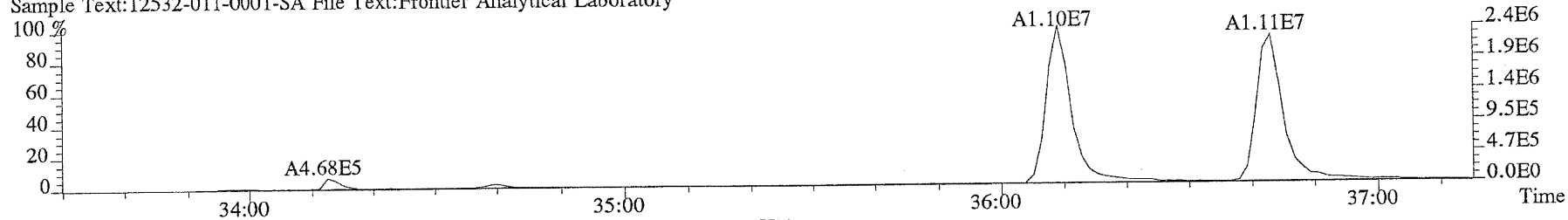
File:25JUL19Z #1-180 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



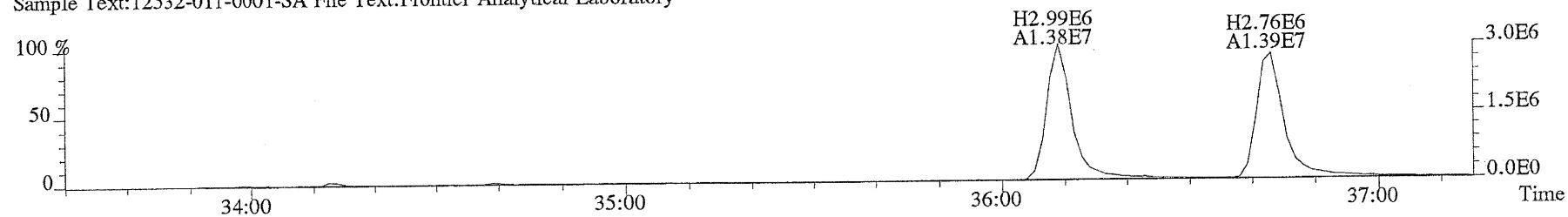
File:25JUL19Z #1-180 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



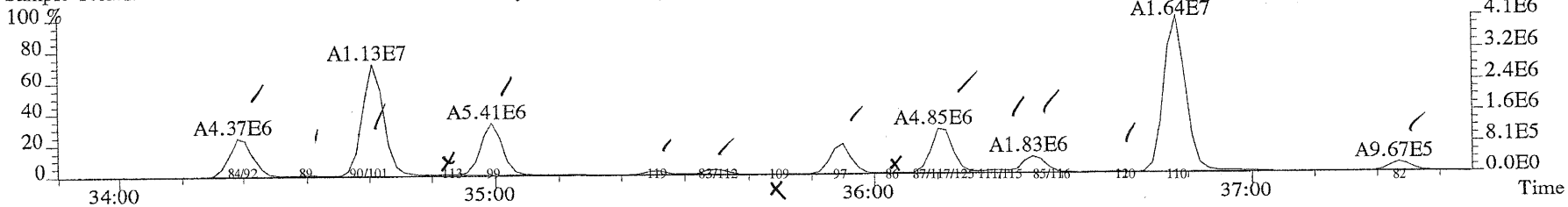
File:25JUL19Z #1-180 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



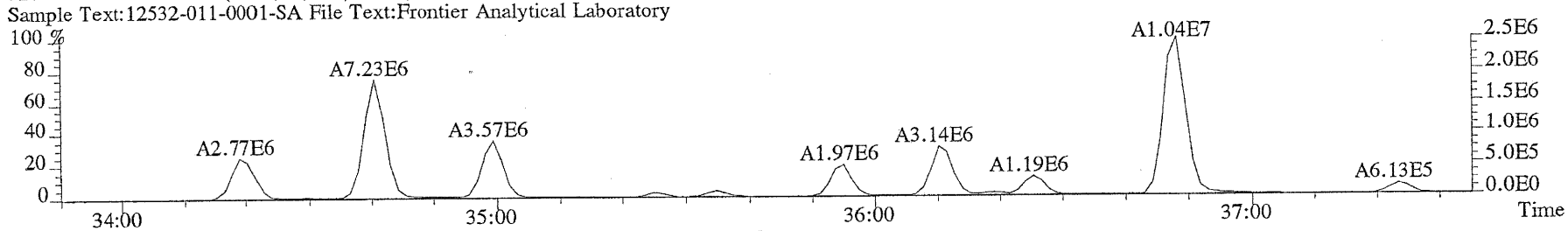
File:25JUL19Z #1-180 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



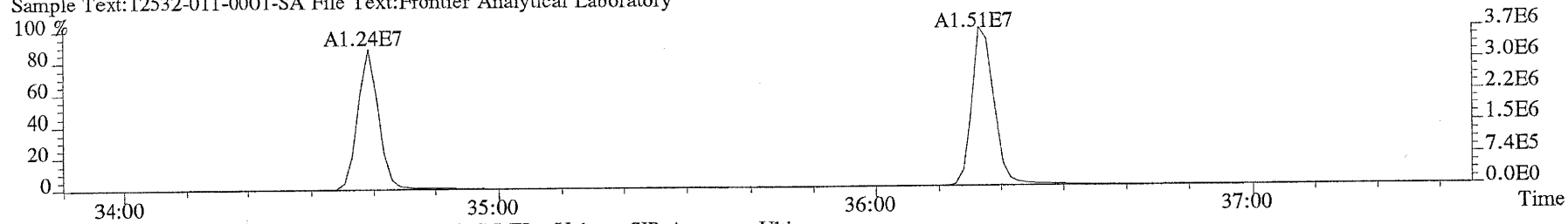
File:25JUL19Z #1-180 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



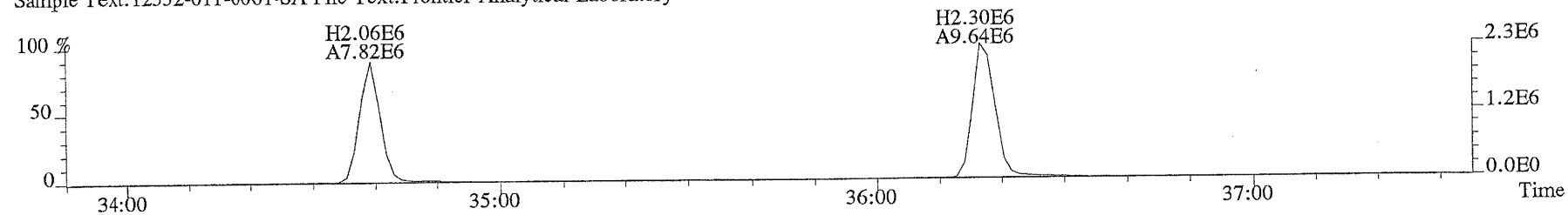
File:25JUL19Z #1-180 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



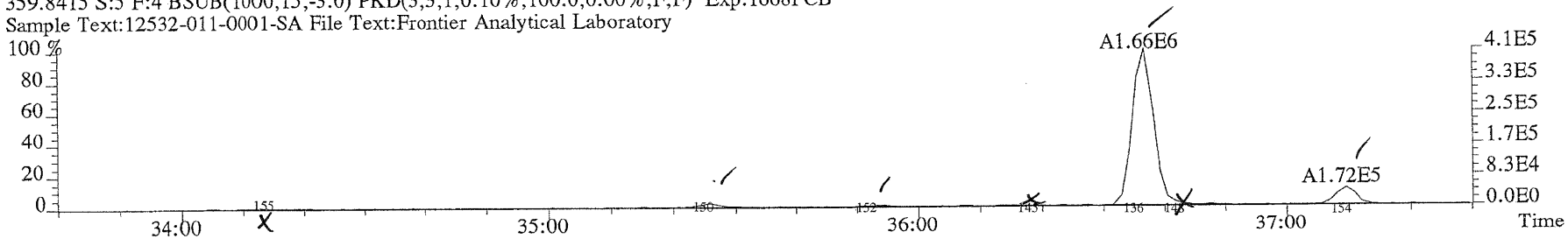
File:25JUL19Z #1-180 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



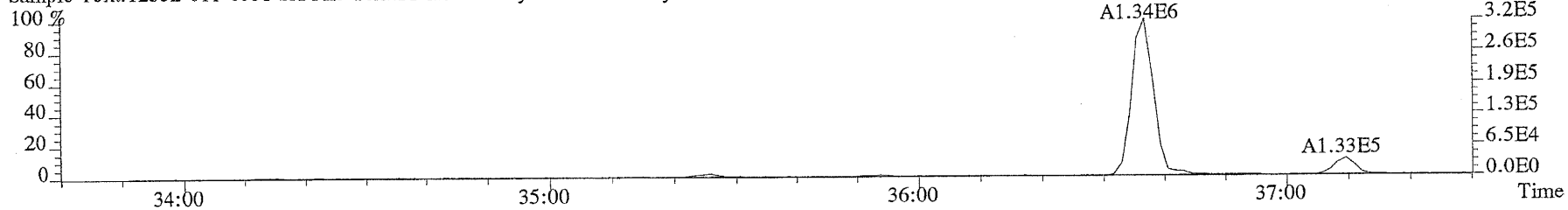
File:25JUL19Z #1-180 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



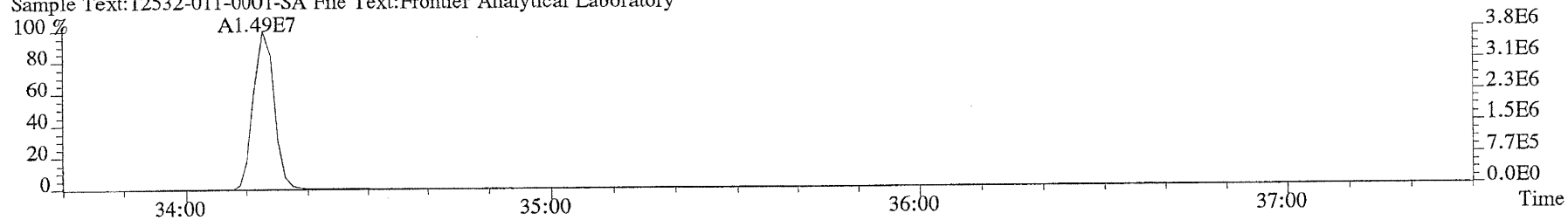
File:25JUL19Z #1-180 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



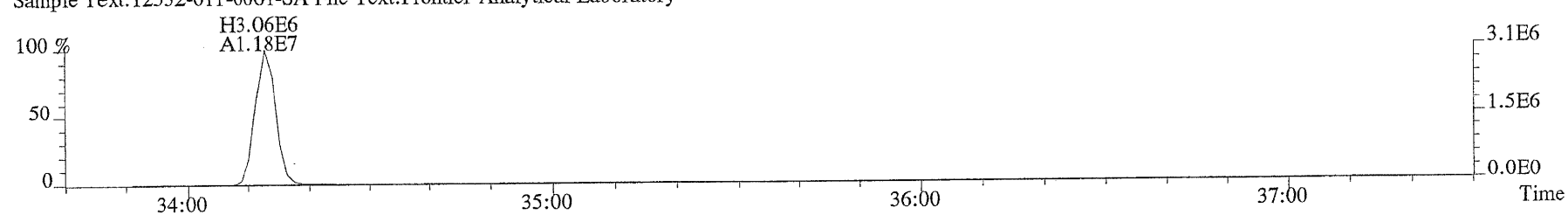
File:25JUL19Z #1-180 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



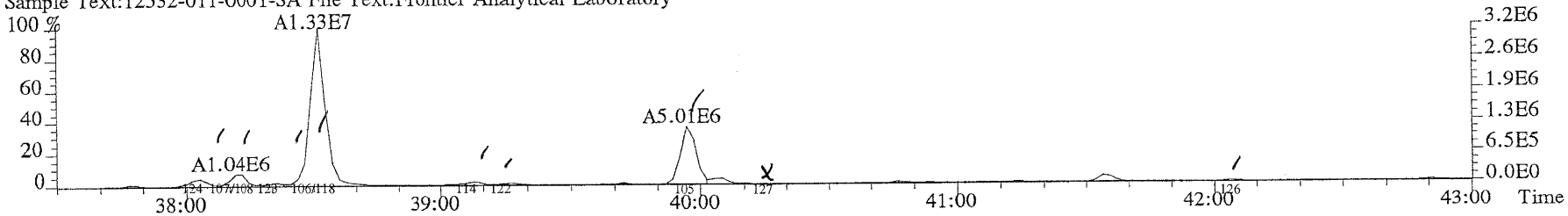
File:25JUL19Z #1-180 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



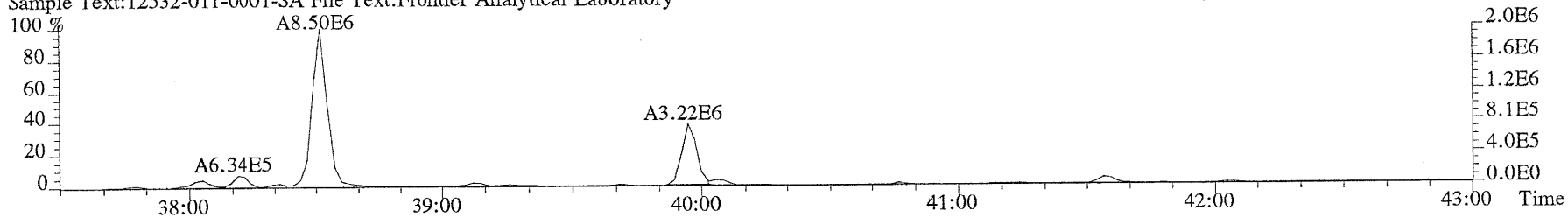
File:25JUL19Z #1-180 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



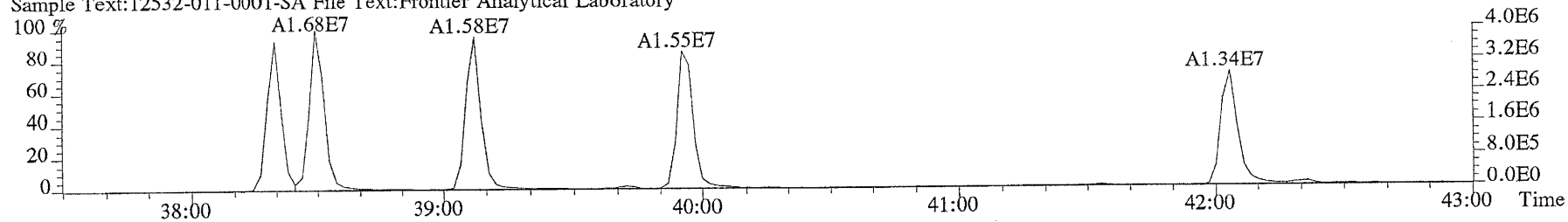
File:25JUL19Z #1-405 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



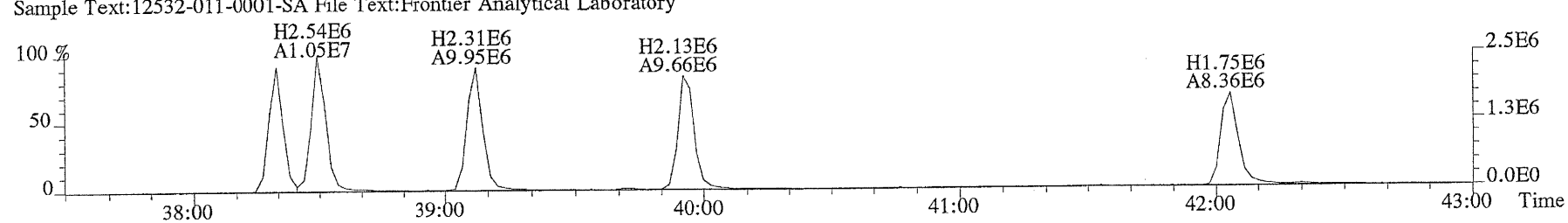
File:25JUL19Z #1-405 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



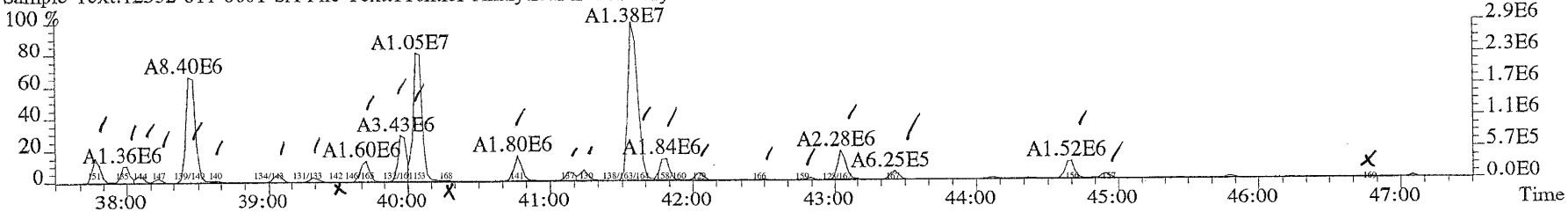
File:25JUL19Z #1-405 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



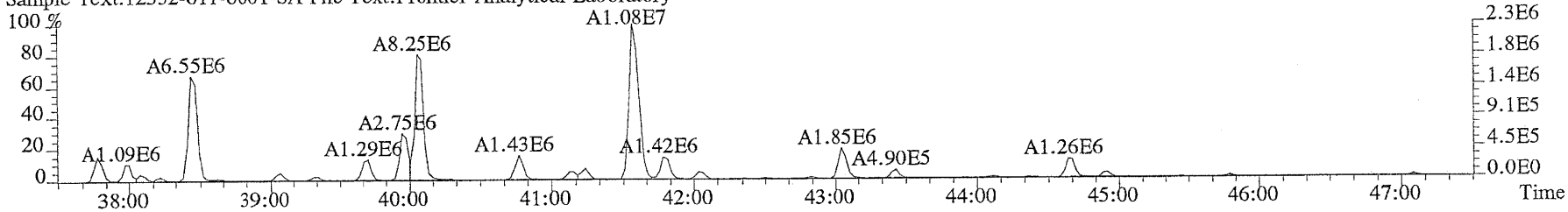
File:25JUL19Z #1-405 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



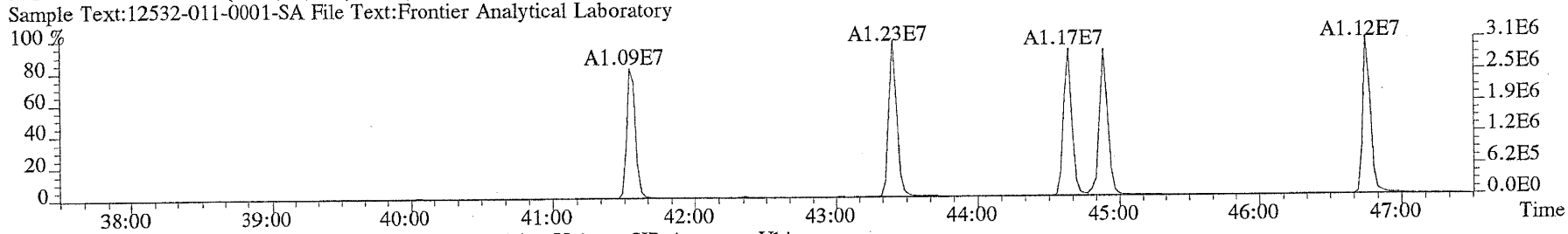
File:25JUL19Z #1-405 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



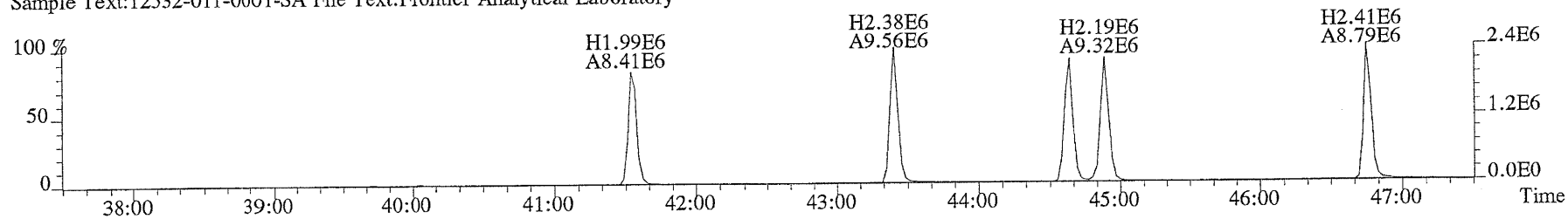
File:25JUL19Z #1-405 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



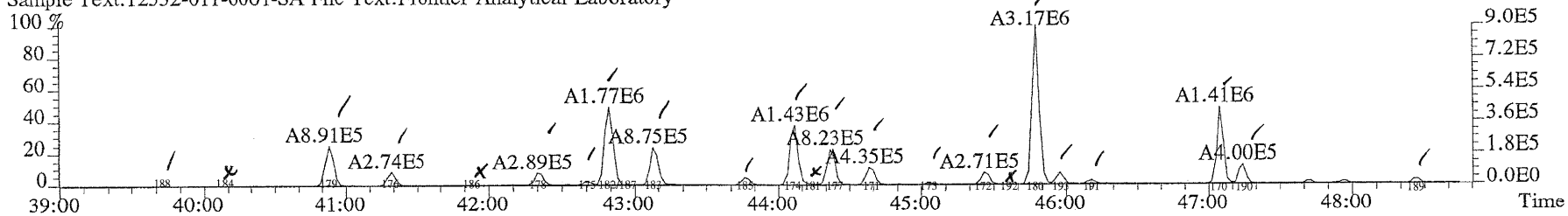
File:25JUL19Z #1-405 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



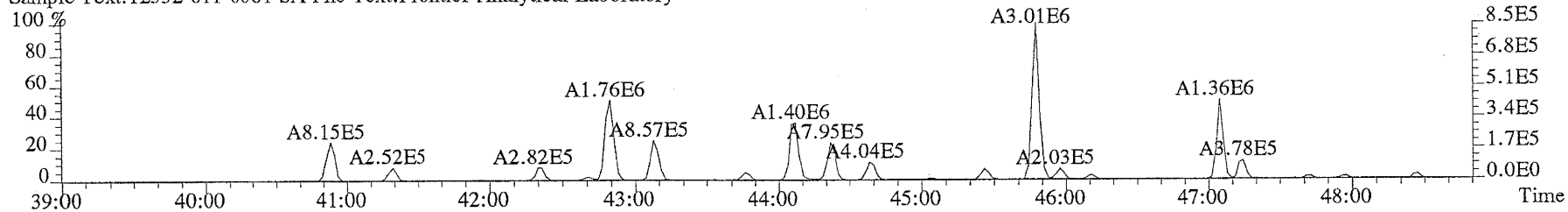
File:25JUL19Z #1-405 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



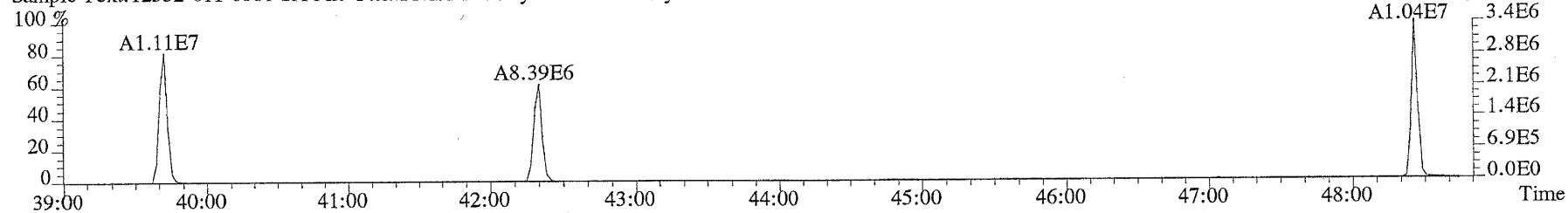
File:25JUL19Z #1-405 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



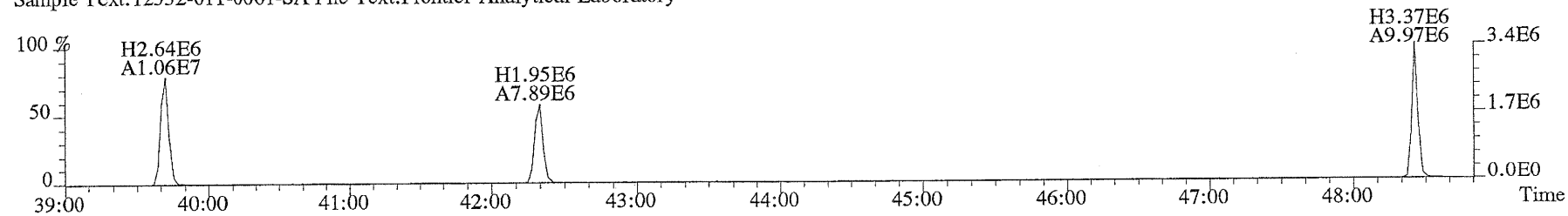
File:25JUL19Z #1-405 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



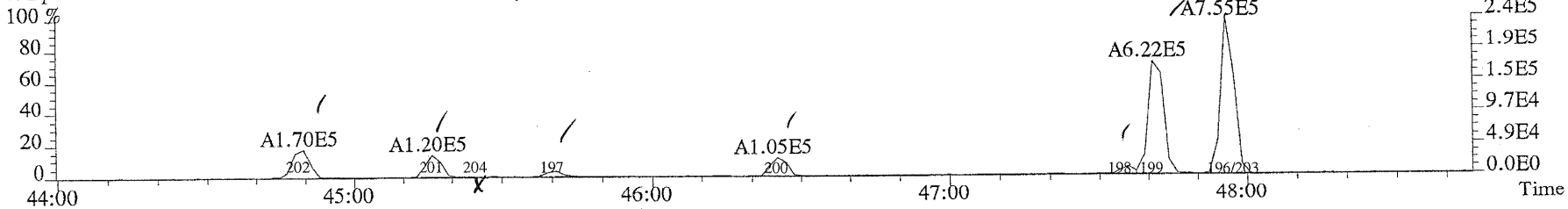
File:25JUL19Z #1-405 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



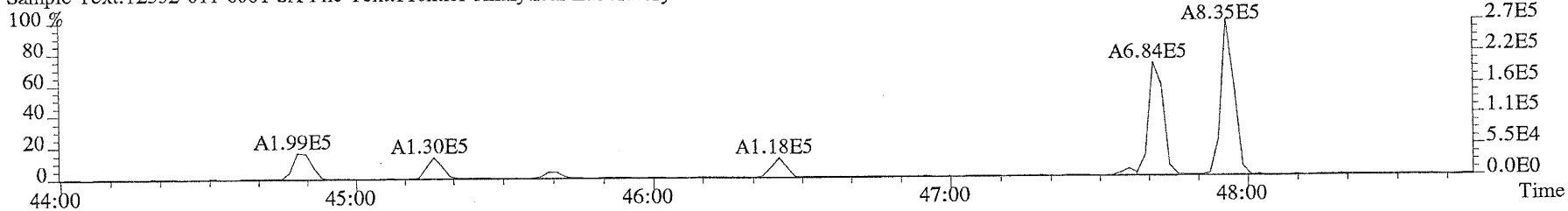
File:25JUL19Z #1-405 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



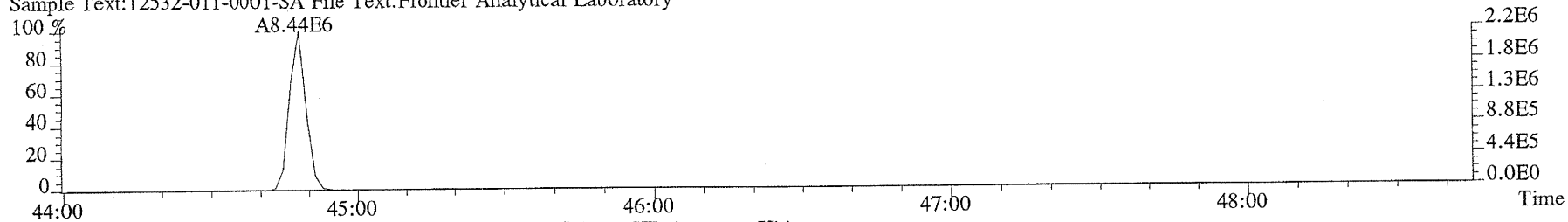
File:25JUL19Z #1-405 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



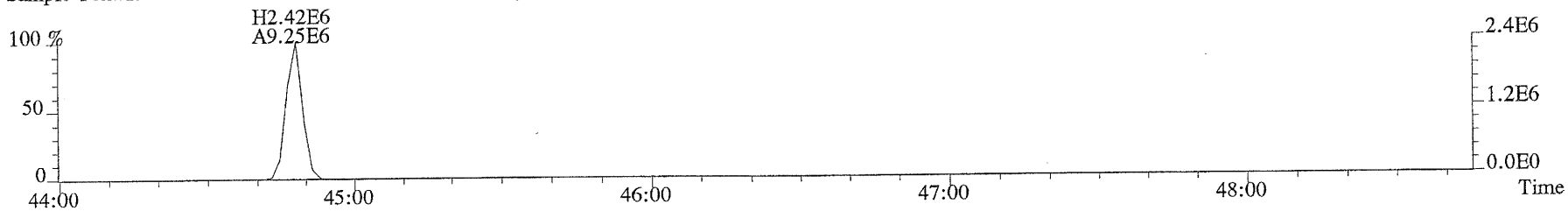
File:25JUL19Z #1-405 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



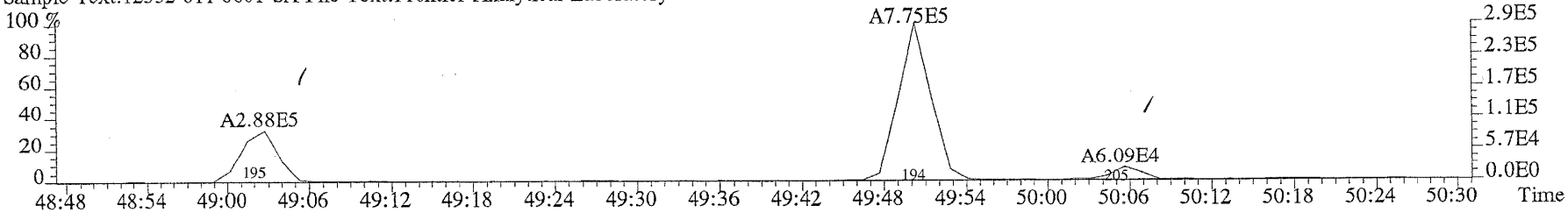
File:25JUL19Z #1-405 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



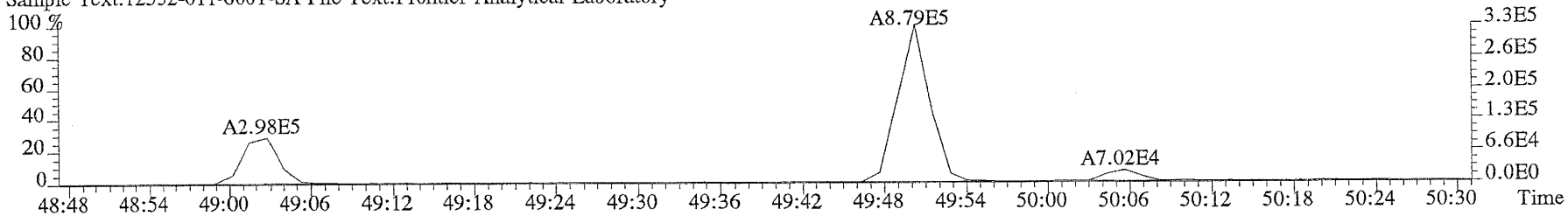
File:25JUL19Z #1-405 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



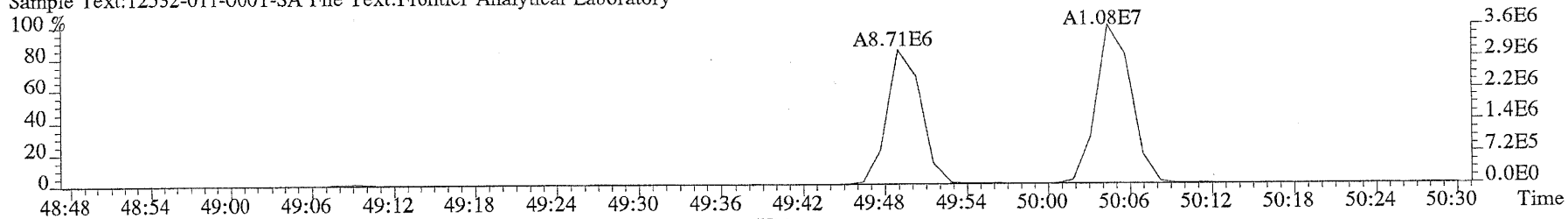
File:25JUL19Z #1-315 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



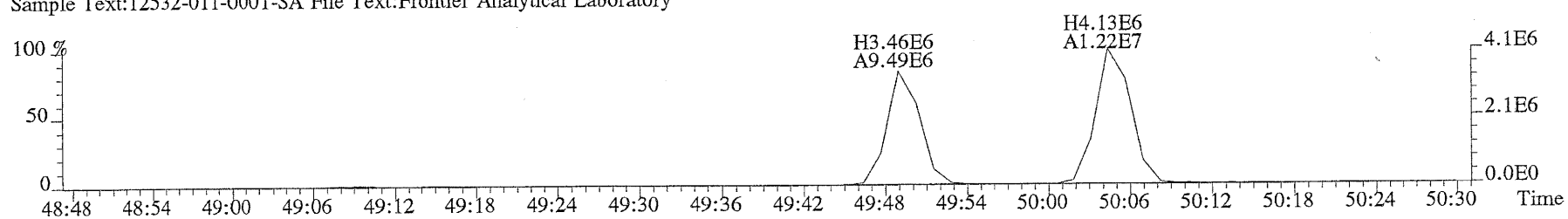
File:25JUL19Z #1-315 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



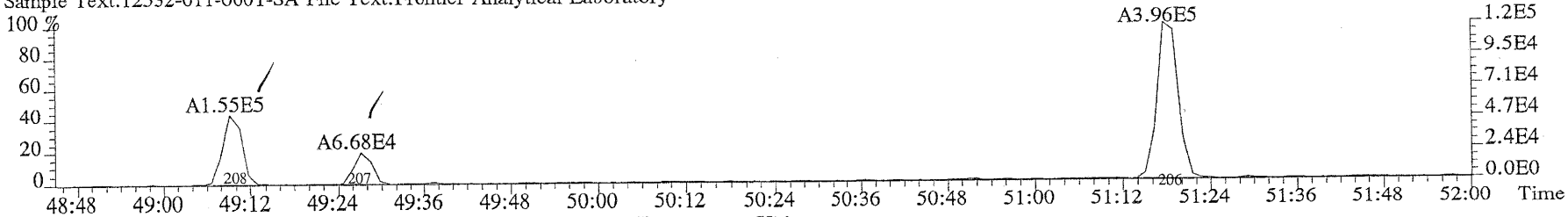
File:25JUL19Z #1-315 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



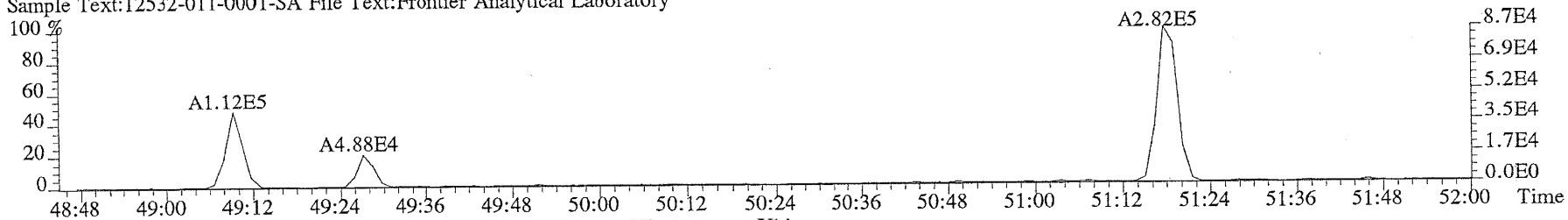
File:25JUL19Z #1-315 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



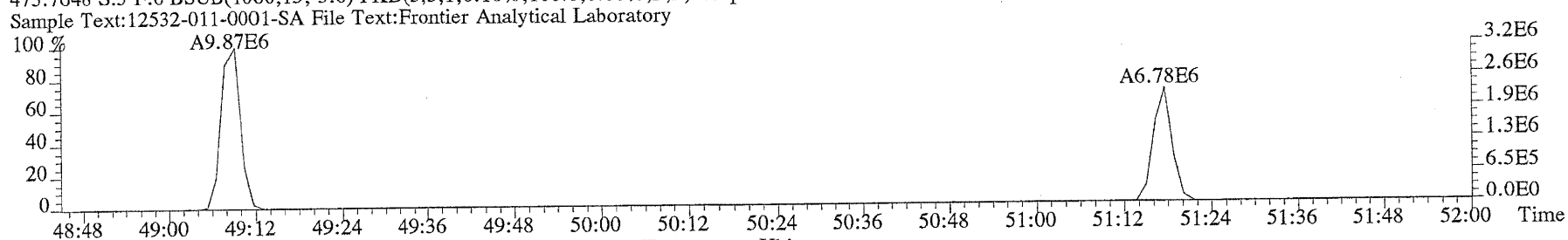
File:25JUL19Z #1-315 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



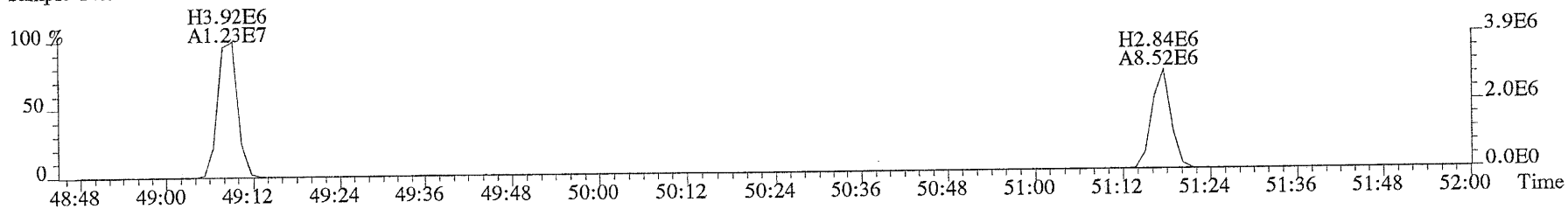
File:25JUL19Z #1-315 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



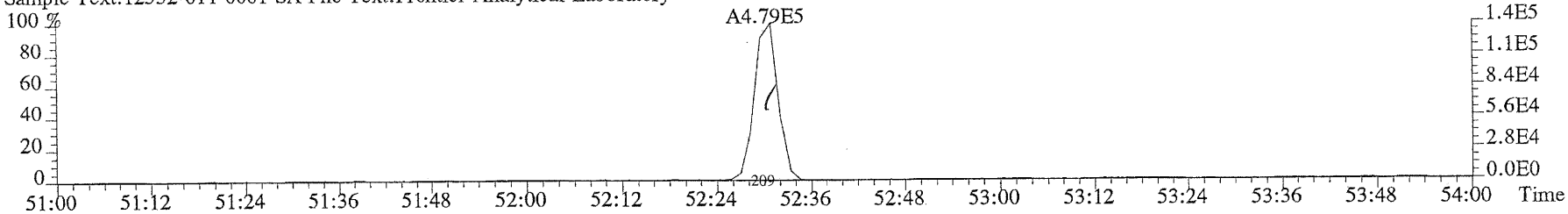
File:25JUL19Z #1-315 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



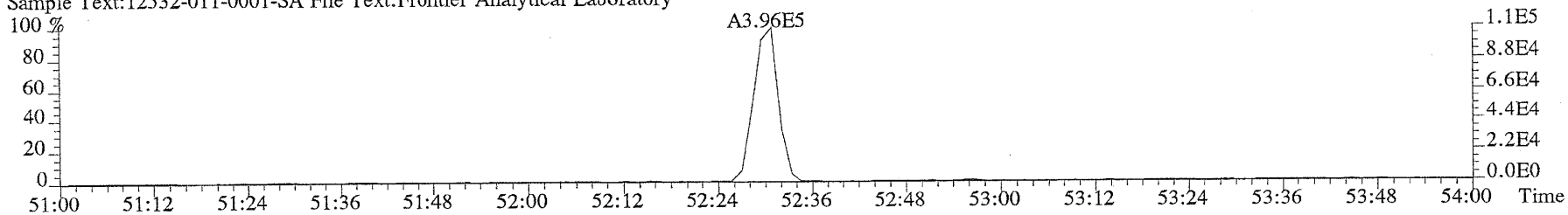
File:25JUL19Z #1-315 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



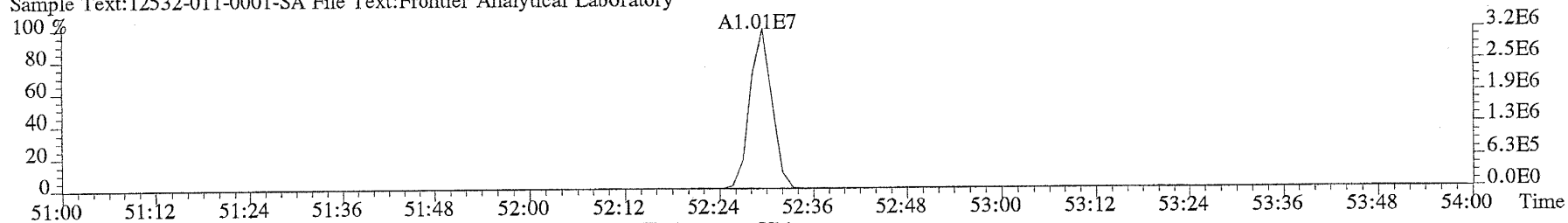
File:25JUL19Z #1-315 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



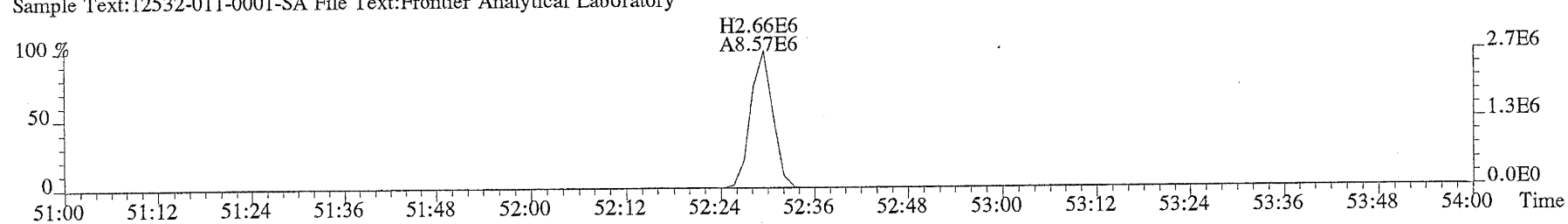
File:25JUL19Z #1-315 Acq:25-JUL-2019 15:05:09 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-011-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 15:05:09 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:12532-011-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 15:05:09 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:12532-011-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12532-012-0001-SA Filename: 25JUL19Z Sam:6 Acquired: 25-JUL-19 16:03:30 ICal: DAILY209FAL4-7-25-19
Client ID: LDW-Y2-IN-ENR+AC-CC-CORE ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 5.080

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.59e+06	3.12 y	14:33	1.17	27.8		-	-	*	
13C-PCB-1	9.65e+07	3.17 y	14:32	0.90	1690					86.0
PCB-2	2.22e+05	3.06 y	16:46	1.20	3.89	J	-	-	*	
PCB-3	6.67e+05	3.40 y	16:59	1.20	12.1		-	-	*	
13C-PCB-3	9.05e+07	3.22 y	16:59	0.87	1640					83.4
PCB-4	1.74e+06	1.47 y	18:14	1.10	43.5		-	-	*	
PCB-10	*	* n	NotFnd	1.40	*		904	5780	1.00	
13C-PCB-4	7.17e+07	1.56 y	18:13	0.66	1730					87.7
PCB-9	4.23e+05	1.39 y	19:55	1.32	7.13		-	-	*	
PCB-7	5.41e+05	1.44 y	19:58	1.48	8.11		-	-	*	
PCB-6	2.36e+06	1.58 y	20:33	1.39	37.7		-	-	*	
PCB-8	5.39e+06	1.49 y	20:55	1.34	89.0		-	-	*	
PCB-5	*	* n	NotFnd	1.36	*		904	5780	1.03	
PCB-14	*	* n	NotFnd	1.30	*		904	5780	1.08	
PCB-11	6.34e+05	1.53 y	23:06	1.23	11.5		-	-	*	
PCB-13	5.27e+05	1.52 y	23:27	1.18	9.89		-	-	*	
PCB-12	4.30e+05	1.33 y	23:30	1.23	7.76		-	-	*	
PCB-15	2.56e+06	1.55 y	23:46	1.10	43.2		-	-	*	
13C-PCB-15	1.06e+08	1.55 y	23:45	0.90	1860					94.6
PCB-19	3.84e+05	1.09 y	22:08	1.19	11.7		-	-	*	
PCB-30	*	* n	NotFnd	1.80	*		5630	1830	1.32	
PCB-18	3.72e+06	1.11 y	23:40	1.17	115		-	-	*	
PCB-17	1.68e+06	1.10 y	23:50	1.29	47.1		-	-	*	
PCB-27	2.95e+05	1.18 y	24:21	1.65	6.47		-	-	*	
PCB-24	3.15e+05	1.07 y	24:22	1.76	6.47		-	-	*	
PCB-16	1.20e+06	1.00 y	24:50	1.43	30.4		-	-	*	
PCB-32	1.34e+06	1.15 y	24:52	1.46	33.1		-	-	*	
13C-PCB-19	5.43e+07	1.07 y	22:06	0.49	1760					89.2
13C-PCB-9	1.25e+08	1.60 y	19:54	-	15.0					
PCB-34	*	* n	NotFnd	1.20	*		1850	1280	0.705	
PCB-23	*	* n	NotFnd	1.47	*		1850	1280	0.575	
PCB-29	*	* n	NotFnd	1.34	*		1850	1280	0.630	
PCB-26	4.75e+06	1.05 y	26:08	1.27	84.8		-	-	*	
PCB-25	2.24e+06	1.13 y	26:17	1.26	40.4		-	-	*	
PCB-31	8.24e+06	1.05 y	26:37	1.28	147		-	-	*	
PCB-28	9.19e+06	1.06 y	26:43	1.51	139		-	-	*	
PCB-20	4.49e+06	1.06 y	27:20	1.26	81.0		-	-	*	Co-elute PCB 21/33
PCB-21	4.49e+06	1.06 y	27:20	1.26	81.0		-	-	*	Co-elute PCB 20/33
PCB-33	4.49e+06	1.06 y	27:20	1.26	81.0		-	-	*	Co-elute PCB 20/21
PCB-22	2.81e+06	1.12 y	27:44	1.40	45.5		-	-	*	
PCB-36	*	* n	NotFnd	1.25	*		1850	1280	0.679	
PCB-39	*	* n	NotFnd	1.24	*		1850	1280	0.681	
PCB-38	*	* n	NotFnd	1.29	*		1850	1280	0.654	
PCB-35	2.00e+05	1.16 y	30:02	1.13	4.00		-	-	*	
PCB-37	2.22e+06	1.17 y	30:31	1.19	42.4		-	-	*	
13C-PCB-37	8.66e+07	1.04 y	30:28	1.40	1960					99.6

PCB-54	*	*	n	NotFnd	1.22	*		1610	1650	0.703	
PCB-50	*	*	n	NotFnd	0.89	*		1610	1650	0.966	
PCB-53	8.93e+05	0.76	y	27:21	0.86	29.3		-	-	*	
PCB-51	2.65e+05	0.80	y	27:40	0.92	8.17		-	-	*	
PCB-45	5.73e+05	0.73	y	28:06	0.74	21.9		-	-	*	
PCB-46	2.39e+05	0.86	y	28:33	0.70	9.61		-	-	*	
PCB-52	1.58e+07	0.79	y	29:00	0.90	496		-	-	*	Co-elute PCB 69
PCB-69	1.58e+07	0.79	y	29:00	0.90	496		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.12	*		1610	1650	0.768	
PCB-43	7.70e+06	0.79	y	29:18	0.78	281		-	-	*	Co-elute PCB 49
PCB-49	7.70e+06	0.79	y	29:18	0.78	281		-	-	*	Co-elute PCB 43
PCB-47	2.50e+06	0.77	y	29:29	0.85	83.7		-	-	*	
PCB-48	1.33e+06	0.74	y	29:37	1.01	37.5		-	-	*	Co-elute PCB 75
PCB-75	1.33e+06	0.74	y	29:37	1.01	37.5		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*		1610	1650	0.845	
PCB-62	*	*	n	NotFnd	1.07	*		1610	1650	0.802	
PCB-44	6.23e+06	0.80	y	30:18	0.67	266		-	-	*	
PCB-42	2.31e+06	0.81	y	30:33	0.89	73.4		-	-	*	Co-elute PCB 59
PCB-59	2.31e+06	0.81	y	30:33	0.89	73.4		-	-	*	Co-elute PCB 42
PCB-72	6.10e+06	0.79	y	31:11	1.00	173		-	-	*	Co-elute PCB 41/71/64
PCB-41	6.10e+06	0.79	y	31:11	1.00	173		-	-	*	Co-elute PCB 72/71/64
PCB-71	6.10e+06	0.79	y	31:11	1.00	173		-	-	*	Co-elute PCB 72/41/64
PCB-64	6.10e+06	0.79	y	31:11	1.00	173		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.85e+05	0.82	y	31:20	1.14	4.60		-	-	*	
PCB-40	6.40e+05	0.77	y	31:30	0.61	29.7		-	-	*	
PCB-57	1.44e+05	0.71	y	31:49	1.07	3.80	J	-	-	*	
PCB-67	4.46e+05	0.78	y	32:06	0.99	12.7		-	-	*	
PCB-58	7.08e+04	0.79	y	32:12	1.11	1.81	J	-	-	*	
PCB-63	3.59e+05	0.70	y	32:21	1.05	9.69		-	-	*	
PCB-74	4.07e+06	0.80	y	32:37	1.02	113		-	-	*	
PCB-61	1.12e+07	0.79	y	32:49	0.97	330		-	-	*	Co-elute PCB 70
PCB-70	1.12e+07	0.79	y	32:49	0.97	330		-	-	*	Co-elute PCB 61
PCB-76	9.69e+06	0.79	y	33:01	1.05	261		-	-	*	Co-elute PCB 66
PCB-66	9.69e+06	0.79	y	33:01	1.05	261		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.24	*		1610	1650	0.692	
PCB-55	3.73e+05	0.80	y	33:28	1.06	9.97		-	-	*	
13C-PCB-54	6.94e+07	0.81	y	25:38	1.36	1620					82.2
PCB-104	*	*	n	NotFnd	1.10	*		576	864	0.491	
PCB-96	1.29e+05	1.46	y	31:23	1.04	4.26		-	-	*	
PCB-103	2.03e+05	1.59	y	31:48	0.84	8.25		-	-	*	
PCB-100	1.04e+05	1.47	y	32:08	0.85	4.18		-	-	*	
PCB-94	6.71e+04	1.48	y	32:34	0.69	3.35	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.69	*		576	864	0.782	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.69	*		576	864	0.782	Co-elute PCB 98
PCB-95	1.39e+07	1.57	y	33:05	0.77	617		-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*		576	864	0.693	
PCB-88	2.41e+06	1.55	y	33:28	0.83	99.1		-	-	*	Co-elute PCB 91
PCB-91	2.41e+06	1.55	y	33:28	0.83	99.1		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.89	*		576	864	0.606	
13C-PCB-104	5.75e+07	1.60	y	30:07	1.06	1710					87.0
13C-PCB-28	1.15e+08	1.03	y	26:42	1.72	2120					108
13C-PCB-52	6.21e+07	0.79	y	28:59	-	16.3					

PCB-56	4.88e+06	0.79	y	33:59	1.17	130		-	-	*	Co-elute PCB 60
PCB-60	4.88e+06	0.79	y	33:59	1.17	130		-	-	*	Co-elute PCB 56
PCB-79	5.35e+05	0.79	y	34:60	1.22	13.8		-	-	*	
PCB-78	1.46e+05	0.80	y	35:35	1.16	3.92	J	-	-	*	
PCB-81	7.94e+05	0.75	y	36:11	1.25	20.0		-	-	*	
13C-PCB-81	6.25e+07	0.79	y	36:08	1.37	1920					97.4
PCB-77	1.08e+06	0.77	y	36:44	1.06	31.9		-	-	*	
13C-PCB-77	6.32e+07	0.81	y	36:42	1.44	1840					93.7
PCB-155	*	*	n	NotFnd	1.04	*		652	632	0.392	
PCB-150	4.46e+04	1.16	y	35:25	0.95	1.52	J	-	-	*	
PCB-152	3.19e+04	1.12	y	35:53	0.90	1.15	J	-	-	*	
PCB-145	*	*	n	NotFnd	0.93	*		652	632	0.438	
PCB-136	3.05e+06	1.28	y	36:36	0.93	106		-	-	*	
PCB-148	*	*	n	NotFnd	0.62	*		652	632	0.652	
PCB-154	3.15e+05	1.25	y	37:09	0.75	13.6		-	-	*	
13C-PCB-155	6.08e+07	1.27	y	34:13	1.44	1770	-				90.0
13C-PCB-111	5.84e+07	1.58	y	36:17	1.22	2010					102
13C-PCB-101	4.70e+07	1.59	y	34:39	-	15.2					
PCB-84	7.54e+06	1.62	y	34:20	0.83	297		-	-	*	Co-elute PCB 92
PCB-92	7.54e+06	1.62	y	34:20	0.83	297		-	-	*	Co-elute PCB 84
PCB-89	1.78e+05	1.37	y	34:30	0.81	7.17		-	-	*	
PCB-90	2.04e+07	1.58	y	34:40	0.89	754		-	-	*	Co-elute PCB 101
PCB-101	2.04e+07	1.58	y	34:40	0.89	754		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.02	*		984	996	0.657	
PCB-99	1.04e+07	1.61	y	34:59	0.98	347		-	-	*	
PCB-119	7.14e+05	1.52	y	35:25	1.13	20.6		-	-	*	
PCB-83	9.81e+05	1.51	y	35:34	0.90	35.7		-	-	*	Co-elute PCB 112
PCB-112	9.81e+05	1.51	y	35:34	0.90	35.7		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.08	*		984	996	0.620	
PCB-97	5.62e+06	1.60	y	35:54	0.73	253		-	-	*	
PCB-86	*	*	n	NotFnd	0.79	*		984	996	0.847	
PCB-125	8.94e+06	1.61	y	36:11	0.97	302		-	-	*	Co-elute PCB 87/117
PCB-87	8.94e+06	1.61	y	36:11	0.97	302		-	-	*	Co-elute PCB 125/117
PCB-117	8.94e+06	1.61	y	36:11	0.97	302		-	-	*	Co-elute PCB 125/87
PCB-111	5.19e+05	1.72	y	36:18	1.13	15.0		-	-	*	Co-elute PCB 115
PCB-115	5.19e+05	1.72	y	36:18	1.13	15.0		-	-	*	Co-elute PCB 111
PCB-85	3.50e+06	1.62	y	36:26	0.97	118		-	-	*	Co-elute PCB 116
PCB-116	3.50e+06	1.62	y	36:26	0.97	118		-	-	*	Co-elute PCB 85
PCB-120	1.16e+05	1.40	y	36:39	1.18	3.22	J	-	-	*	
PCB-110	3.12e+07	1.57	y	36:47	1.10	926		-	-	*	
PCB-82	1.90e+06	1.53	y	37:24	0.62	100		-	-	*	
PCB-124	1.38e+06	1.70	y	38:02	1.10	41.0		-	-	*	
PCB-108	2.15e+06	1.60	y	38:12	1.20	58.8		-	-	*	Co-elute PCB 107
PCB-107	2.15e+06	1.60	y	38:12	1.20	58.8		-	-	*	Co-elute PCB 108
PCB-123	5.02e+05	1.64	y	38:20	1.01	17.1		-	-	*	
13C-PCB-123	5.72e+07	1.59	y	38:19	1.31	1890					96.0
PCB-118	2.97e+07	1.57	y	38:30	1.09	837		-	-	*	Co-elute PCB 106
PCB-106	2.97e+07	1.57	y	38:30	1.09	837		-	-	*	Co-elute PCB 118
13C-PCB-118	6.44e+07	1.60	y	38:30	1.46	1910					97.1
PCB-114	6.88e+05	1.73	y	39:08	1.14	19.9		-	-	*	
13C-PCB-114	6.00e+07	1.59	y	39:06	1.34	1950					99.0
PCB-122	3.87e+05	1.63	y	39:15	1.16	10.9		-	-	*	
PCB-105	1.15e+07	1.54	y	39:57	1.19	321		-	-	*	
13C-PCB-105	5.90e+07	1.62	y	39:56	1.32	1940					98.7

FAL ID: 12532-012-0001-SA Filename: 25JUL19Z Sam:6 Acquired: 25-JUL-19 16:03:30 ICal: DAILY209FAL4-7-25-19
Client ID: LDW-Y2-IN-ENR+AC-CC-CORE ConCal: ST07251 9Z1 EndCal: ST07251 9Z2
Results: 12532-11 GC Column: DB1MS Amount: 5.080

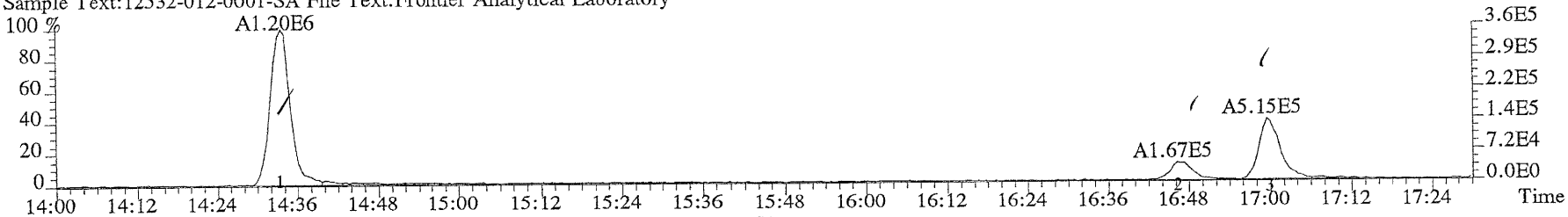
PCB-127	*	*	n	NotFnd	1.06	*	1300	1200	0.802	
PCB-126	2.22e+05	1.34	y	42:04	1.13	7.17	-	-	*	
13C-PCB-126	5.38e+07	1.61	y	42:02	1.20	1950				99.1
PCB-151	3.56e+06	1.29	y	37:47	0.98	139	-	-	*	
PCB-135	2.53e+06	1.30	y	37:59	0.92	104	-	-	*	
PCB-144	1.08e+06	1.40	y	38:05	1.05	39.2	-	-	*	
PCB-147	6.02e+05	1.38	y	38:14	1.09	21.1	-	-	*	
PCB-139	1.67e+07	1.29	y	38:27	1.08	591	-	-	*	Co-elute PCB 149
PCB-149	1.67e+07	1.29	y	38:27	1.08	591	-	-	*	Co-elute PCB 139
PCB-140	2.09e+05	1.12	y	38:38	1.07	7.47	-	-	*	
PCB-143	1.33e+06	1.21	y	39:03	0.86	59.3	-	-	*	Co-elute PCB 134
PCB-134	1.33e+06	1.21	y	39:03	0.86	59.3	-	-	*	Co-elute PCB 143
PCB-131	7.24e+05	1.20	y	39:19	0.85	32.5	-	-	*	Co-elute PCB 133
PCB-133	7.24e+05	1.20	y	39:19	0.85	32.5	-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.86	*	1240	860	0.996	
PCB-165	3.50e+06	1.28	y	39:41	1.17	114	-	-	*	Co-elute PCB 146
PCB-146	3.50e+06	1.28	y	39:41	1.17	114	-	-	*	Co-elute PCB 165
PCB-161	8.52e+06	1.25	y	39:57	1.07	303	-	-	*	Co-elute PCB 132
PCB-132	8.52e+06	1.25	y	39:57	1.07	303	-	-	*	Co-elute PCB 161
PCB-153	2.25e+07	1.27	y	40:04	1.16	737	-	-	*	
PCB-168	*	*	n	NotFnd	1.27	*	1240	860	0.676	
PCB-141	4.09e+06	1.26	y	40:47	0.93	168	-	-	*	
PCB-137	1.70e+06	1.25	y	41:08	0.87	74.6	-	-	*	
PCB-130	1.68e+06	1.23	y	41:13	0.85	75.5	-	-	*	
PCB-138	3.19e+07	1.26	y	41:34	1.13	1080	-	-	*	Co-elute PCB 163/164
PCB-163	3.19e+07	1.26	y	41:34	1.13	1080	-	-	*	Co-elute PCB 138/164
PCB-164	3.19e+07	1.26	y	41:34	1.13	1080	-	-	*	Co-elute PCB 138/163
PCB-158	4.36e+06	1.24	y	41:48	1.27	131	-	-	*	Co-elute PCB 160
PCB-160	4.36e+06	1.24	y	41:48	1.27	131	-	-	*	Co-elute PCB 158
PCB-129	1.32e+06	1.29	y	42:02	0.79	64.1	-	-	*	
PCB-166	1.89e+05	1.25	y	42:29	1.20	6.01	-	-	*	
PCB-159	2.57e+05	1.15	y	42:50	1.31	7.51	-	-	*	
PCB-128	5.75e+06	1.30	y	43:03	1.03	213	-	-	*	Co-elute PCB 162
PCB-162	5.75e+06	1.30	y	43:03	1.03	213	-	-	*	Co-elute PCB 128
PCB-167	1.61e+06	1.20	y	43:25	1.13	53.0	-	-	*	
13C-PCB-167	5.29e+07	1.28	y	43:25	1.15	2000				101
PCB-156	3.90e+06	1.27	y	44:39	1.23	124	-	-	*	
13C-PCB-156	5.05e+07	1.30	y	44:37	1.11	1970				99.9
PCB-157	1.02e+06	1.32	y	44:54	1.15	33.3	-	-	*	
13C-PCB-157	5.20e+07	1.28	y	44:54	1.14	1980				100
PCB-169	*	*	n	NotFnd	1.11	*	1240	860	0.724	
13C-PCB-169	5.12e+07	1.28	y	46:46	1.08	2060				104

FAL ID: 12532-012-0001-SA Filename: 25JUL19Z Sam:6 Acquired: 25-JUL-19 16:03:30 ICal: DAILY209FAL4-7-25-19
Client ID: LDW-Y2-IN-ENR+AC-CC-CORE ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 5.080

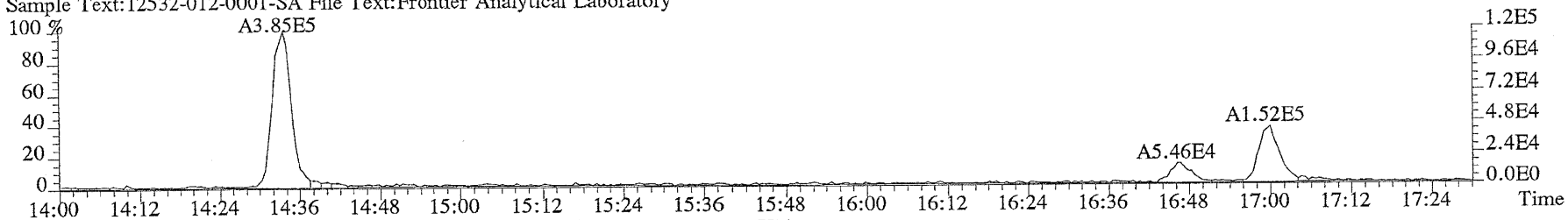
PCB-188	*	*	n	NotFnd	1.06	*		1220	560	0.644	
13C-PCB-188	5.20e+07	1.06	y	39:41	1.26	1790					90.7
PCB-184	*	*	n	NotFnd	1.24	*		1220	560	0.524	
PCB-179	1.84e+06	1.08	y	40:53	1.13	64.5		-	-	*	
PCB-176	6.00e+05	1.05	y	41:20	1.08	21.9		-	-	*	
PCB-186	*	*	n	NotFnd	1.13	*		1220	560	0.577	
PCB-178	6.86e+05	1.05	y	42:21	0.76	35.8		-	-	*	
PCB-175	1.55e+05	0.99	y	42:40	0.77	7.97		-	-	*	
PCB-187	3.94e+06	1.06	y	42:49	0.86	182		-	-	*	Co-elute PCB 182
PCB-182	3.94e+06	1.06	y	42:49	0.86	182		-	-	*	Co-elute PCB 187
PCB-183	2.13e+06	1.01	y	43:08	0.83	102		-	-	*	
PCB-185	3.59e+05	1.16	y	43:46	0.74	19.1		-	-	*	
PCB-174	3.24e+06	1.07	y	44:06	0.79	162		-	-	*	
PCB-181	*	*	n	NotFnd	0.70	*		1220	560	0.923	
PCB-177	1.91e+06	1.02	y	44:22	0.68	111		-	-	*	
PCB-171	1.05e+06	1.05	y	44:39	0.74	56.1		-	-	*	
PCB-173	8.35e+04	1.02	y	45:03	0.66	5.02		-	-	*	
PCB-172	5.44e+05	1.07	y	45:27	0.69	31.1		-	-	*	
PCB-192	*	*	n	NotFnd	0.94	*		1220	560	0.692	
PCB-180	7.21e+06	1.01	y	45:46	0.69	413		-	-	*	
PCB-193	5.21e+05	0.96	y	45:58	0.98	21.0		-	-	*	
PCB-191	1.92e+05	1.15	y	46:09	0.94	8.07		-	-	*	
PCB-170	3.24e+06	1.04	y	47:05	0.66	194		-	-	*	
PCB-190	9.72e+05	1.02	y	47:14	0.93	41.3		-	-	*	
PCB-189	1.95e+05	1.11	y	48:26	1.02	7.92		-	-	*	
13C-PCB-189	4.75e+07	1.05	y	48:24	1.00	2050					104
PCB-202	3.83e+05	0.99	y	44:49	1.04	17.8		-	-	*	
PCB-201	2.57e+05	0.78	y	45:17	1.12	11.1		-	-	*	
PCB-204	*	*	n	NotFnd	1.09	*		408	932	0.630	
PCB-197	8.64e+04	0.93	y	45:41	1.15	3.63	J	-	-	*	
PCB-200	2.27e+05	0.96	y	46:26	1.10	9.98		-	-	*	
PCB-198	9.52e+04	0.90	y	47:35	0.73	6.29		-	-	*	
PCB-199	1.46e+06	0.91	y	47:42	0.76	92.6		-	-	*	
PCB-203	1.68e+06	0.93	y	47:56	0.85	95.7		-	-	*	Co-elute PCB 196
PCB-196	1.68e+06	0.93	y	47:56	0.85	95.7		-	-	*	Co-elute PCB 203
13C-PCB-202	4.07e+07	0.91	y	44:47	0.97	1820					92.7
13C-PCB-178	3.66e+07	1.06	y	42:19	0.83	1910					97.3
13C-PCB-138	4.54e+07	1.27	y	41:33	-	15.8					
PCB-195	6.87e+05	0.83	y	49:02	0.77	33.7		-	-	*	
PCB-194	1.90e+06	0.89	y	49:51	0.84	85.3		-	-	*	
PCB-205	1.26e+05	0.84	y	50:06	1.04	4.55		-	-	*	
13C-PCB-205	5.23e+07	0.90	y	50:05	1.31	1830					92.7
PCB-208	2.82e+05	1.28	y	49:10	1.00	10.7		-	-	*	
13C-PCB-208	5.17e+07	0.81	y	49:09	1.32	1780					90.5
PCB-207	1.34e+05	1.34	y	49:27	1.15	5.23		-	-	*	
PCB-206	7.70e+05	1.35	y	51:18	1.04	40.6		-	-	*	
13C-PCB-206	3.59e+07	0.80	y	51:17	0.97	1680					85.5
PCB-209	7.17e+05	1.23	y	52:29	1.11	29.7		-	-	*	
13C-PCB-209	4.28e+07	1.20	y	52:28	1.23	1580					80.4
13C-PCB-194	4.31e+07	0.93	y	49:50	-	17.1					

Analyst: _____ Date: 7/26/19

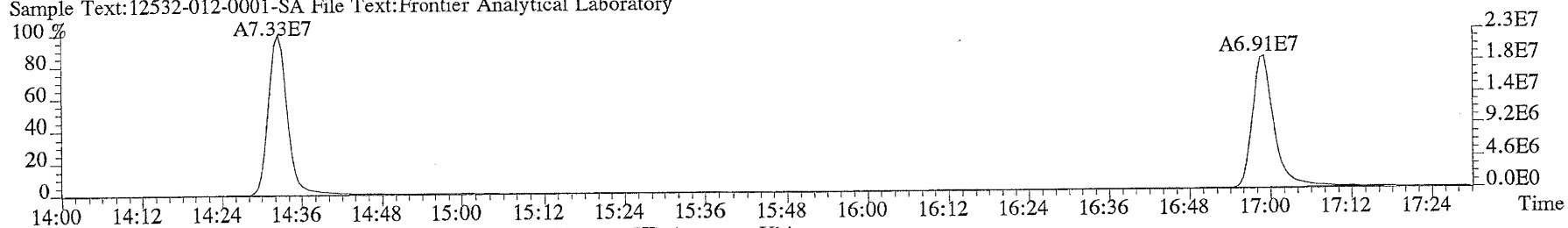
File:25JUL19Z #1-783 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



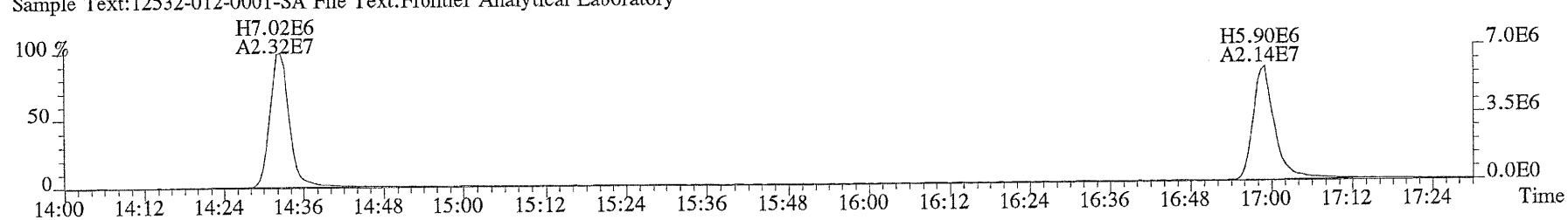
File:25JUL19Z #1-783 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



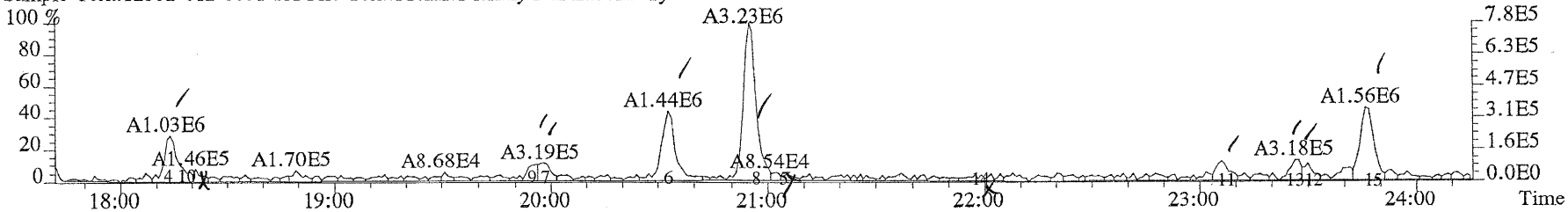
File:25JUL19Z #1-783 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



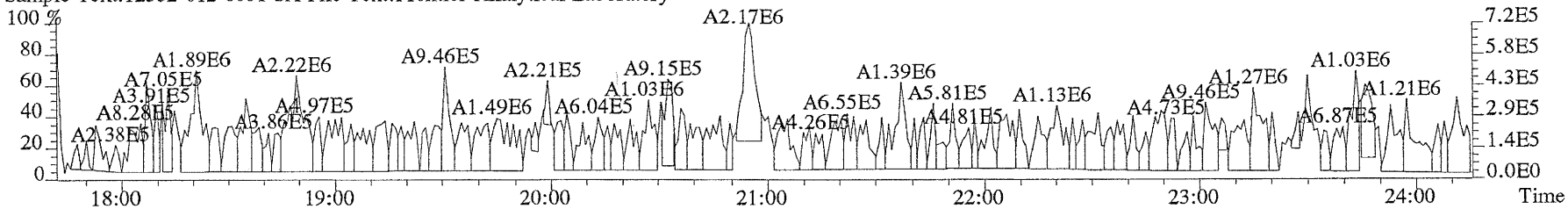
File:25JUL19Z #1-783 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



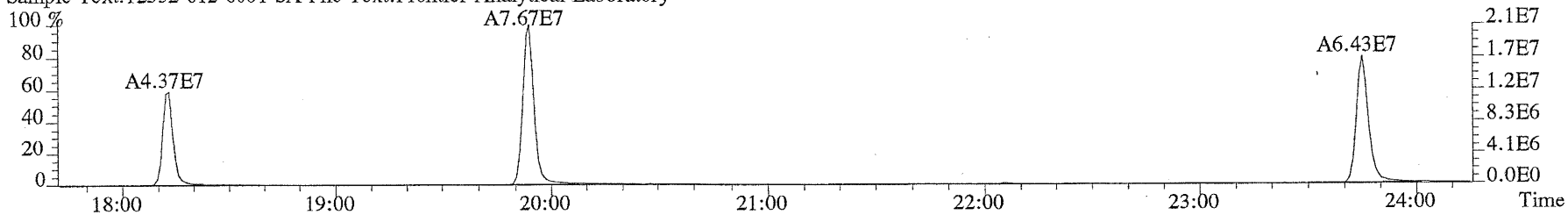
File:25JUL19Z #1-520 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



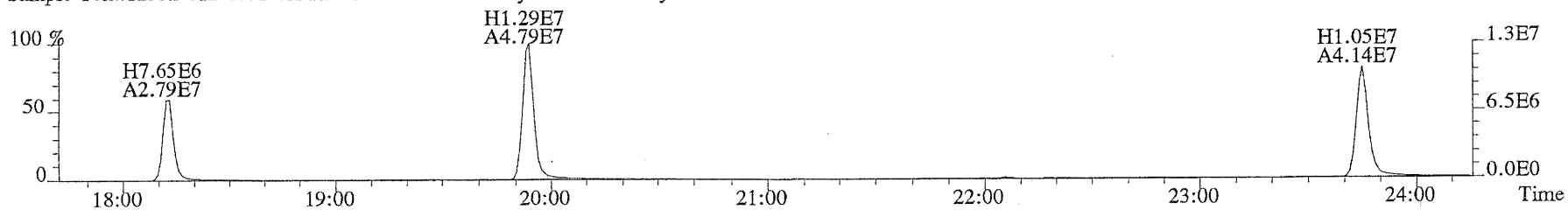
File:25JUL19Z #1-520 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



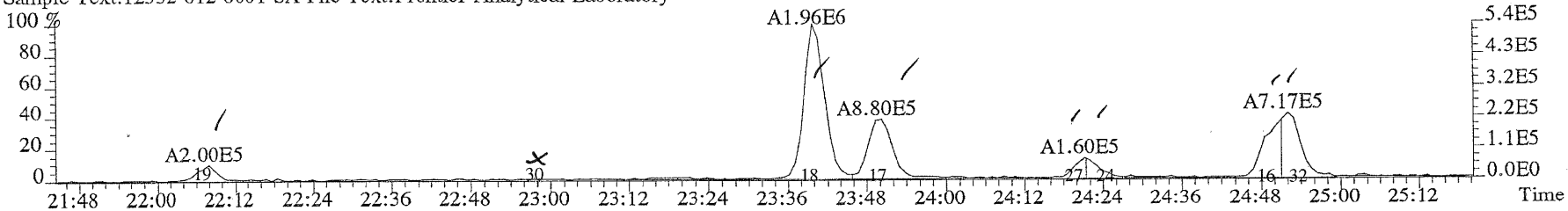
File:25JUL19Z #1-520 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



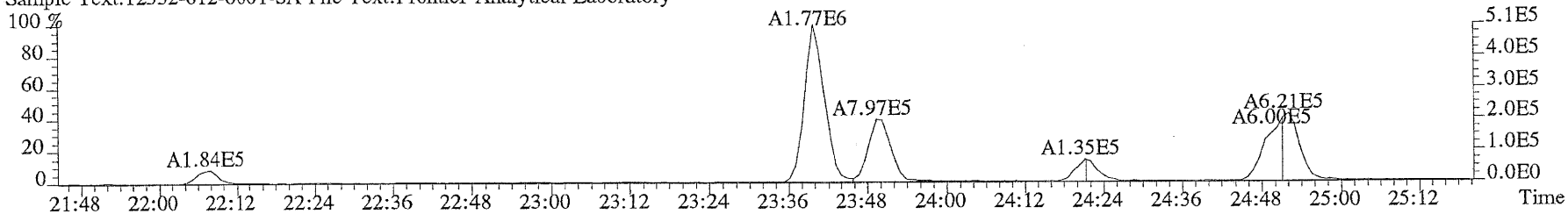
File:25JUL19Z #1-520 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



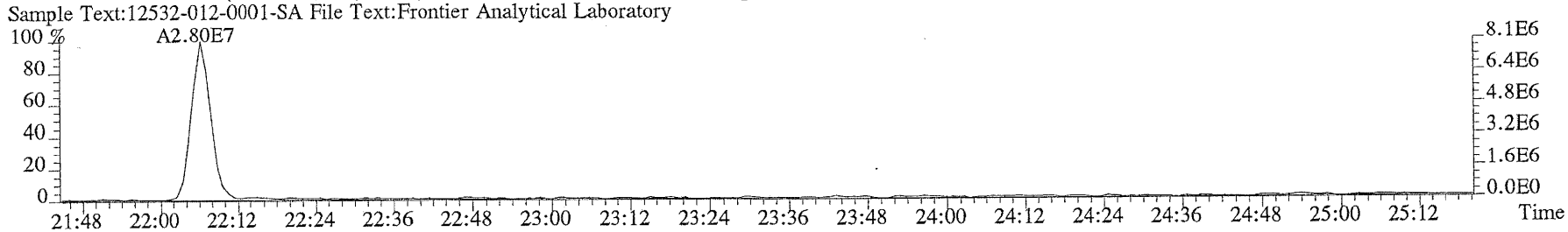
File:25JUL19Z #1-520 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



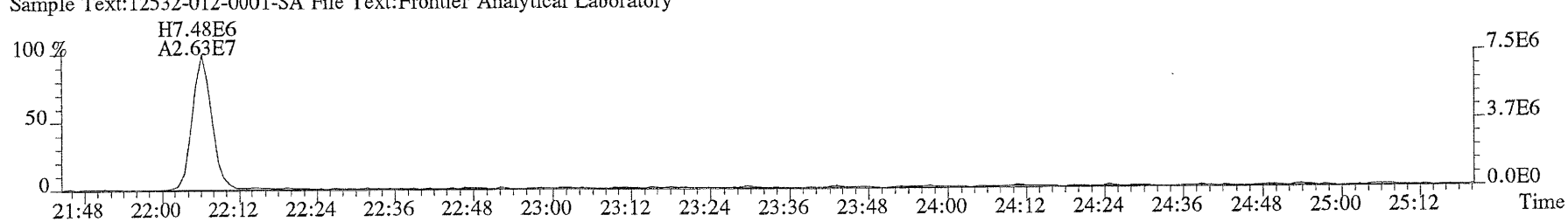
File:25JUL19Z #1-520 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



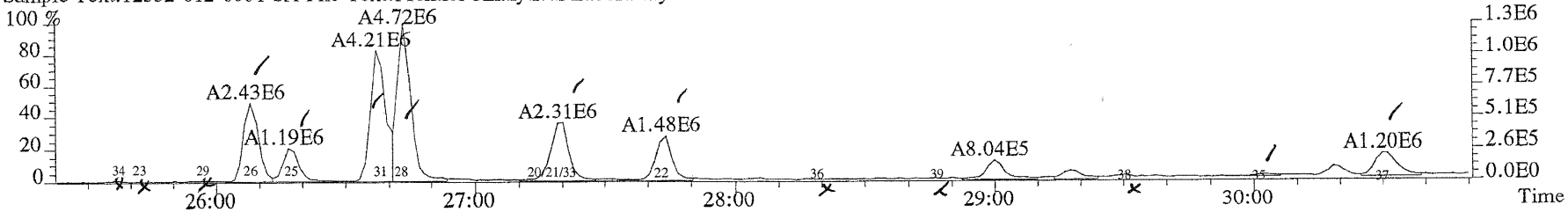
File:25JUL19Z #1-520 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



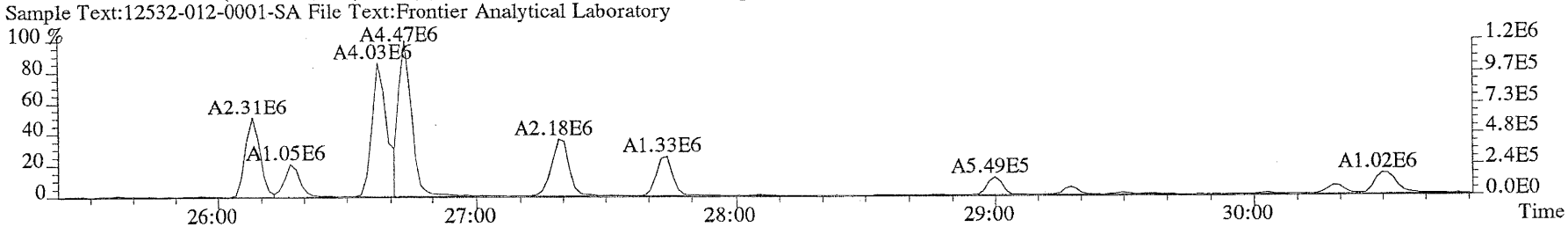
File:25JUL19Z #1-520 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



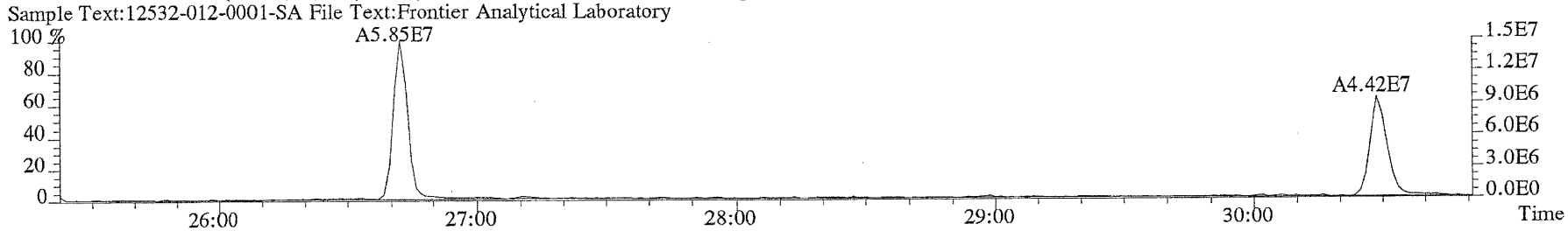
File:25JUL19Z #1-401 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



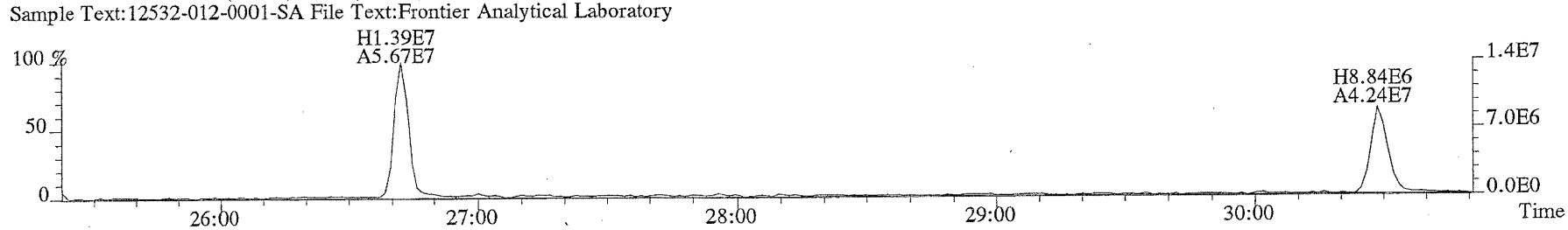
File:25JUL19Z #1-401 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



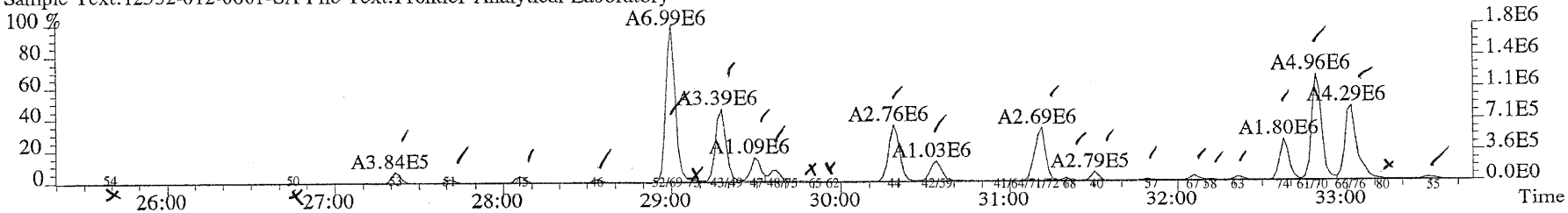
File:25JUL19Z #1-401 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



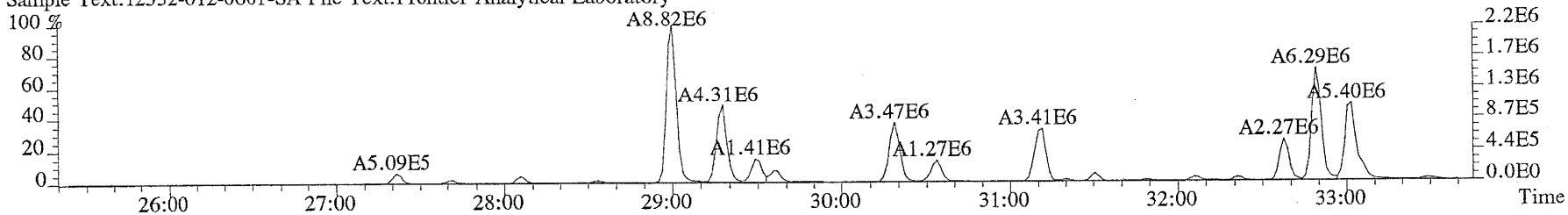
File:25JUL19Z #1-401 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



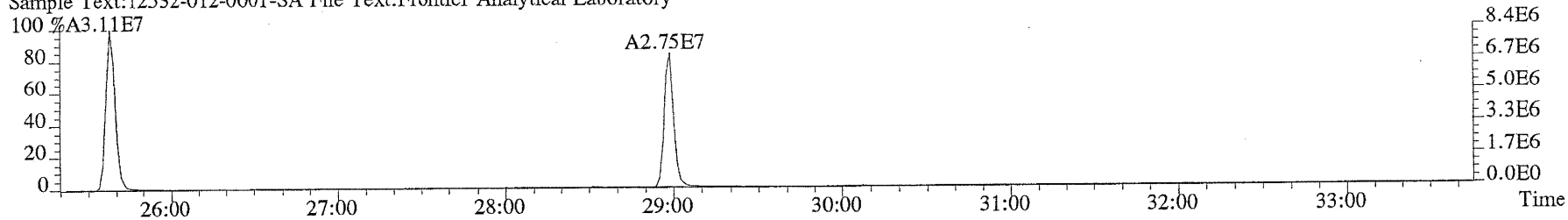
File:25JUL19Z #1-401 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



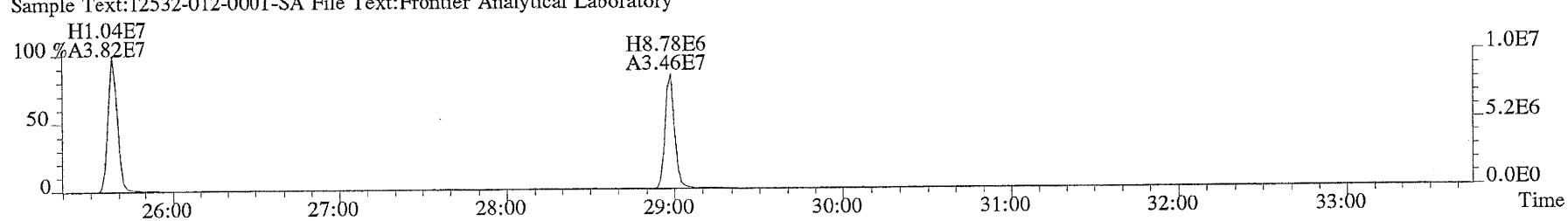
File:25JUL19Z #1-401 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



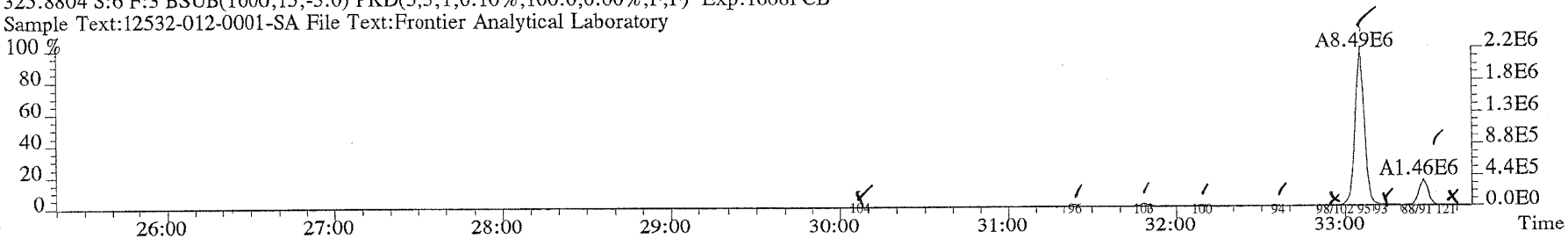
File:25JUL19Z #1-401 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



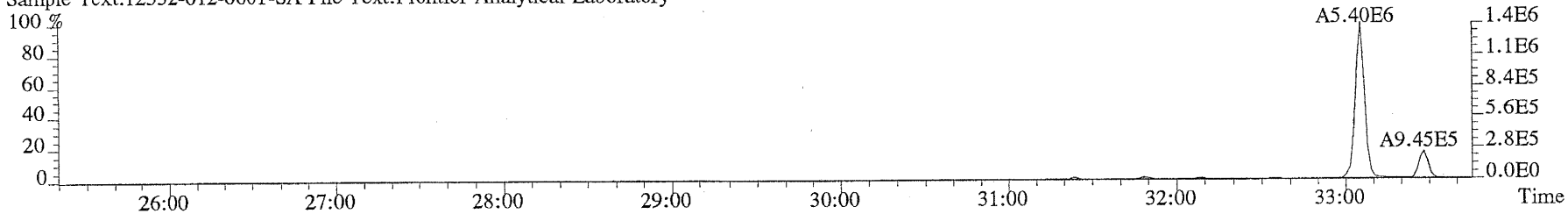
File:25JUL19Z #1-401 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



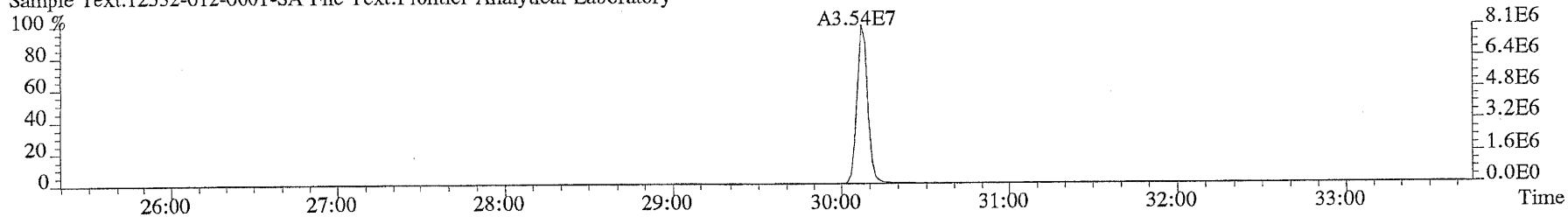
File:25JUL19Z #1-401 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



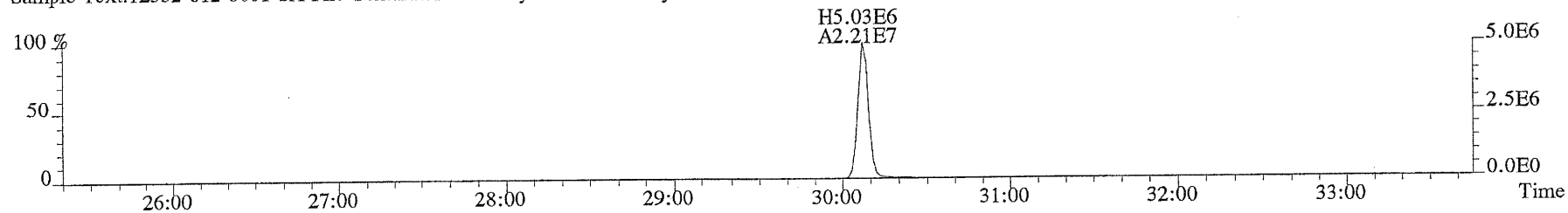
File:25JUL19Z #1-401 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



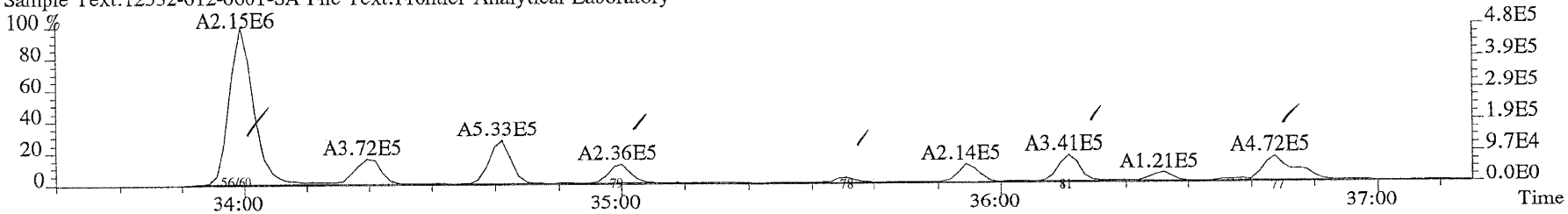
File:25JUL19Z #1-401 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



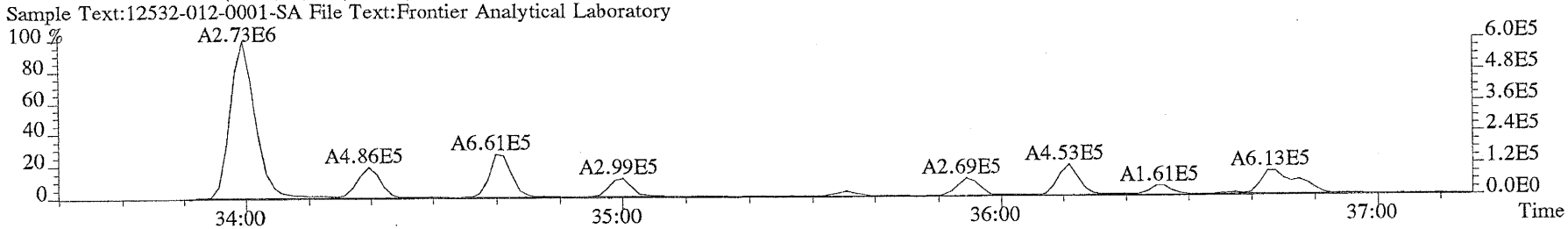
File:25JUL19Z #1-401 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



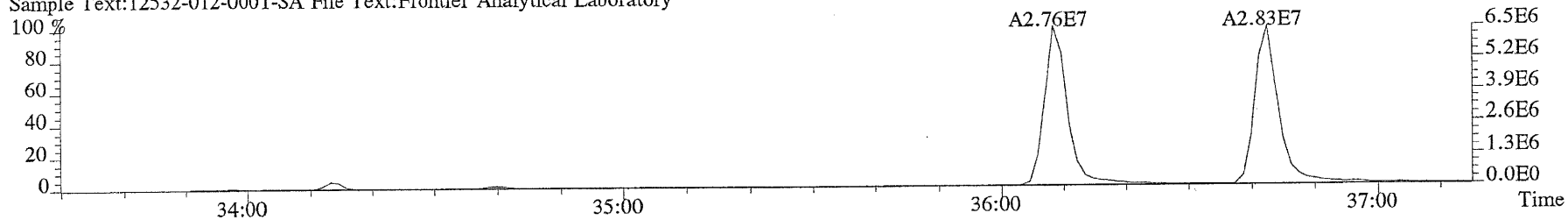
File:25JUL19Z #1-181 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



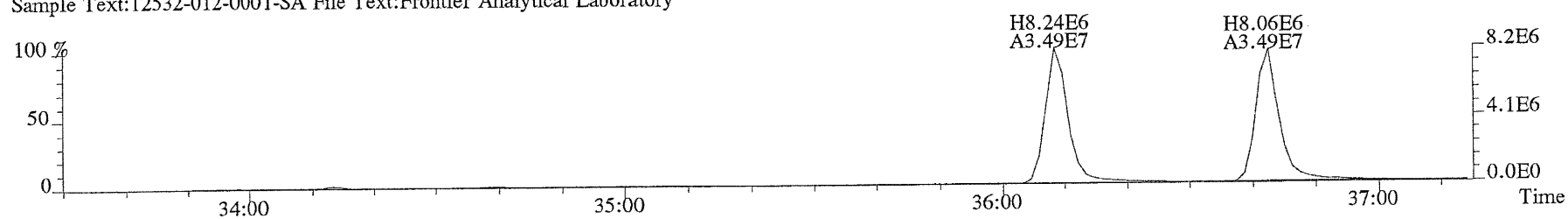
File:25JUL19Z #1-181 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



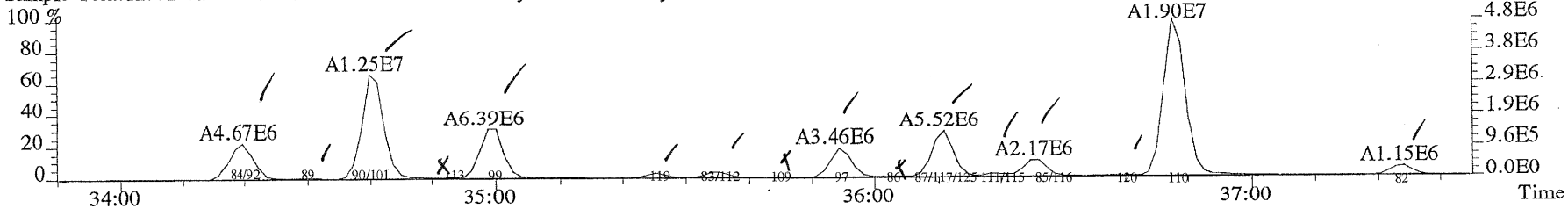
File:25JUL19Z #1-181 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



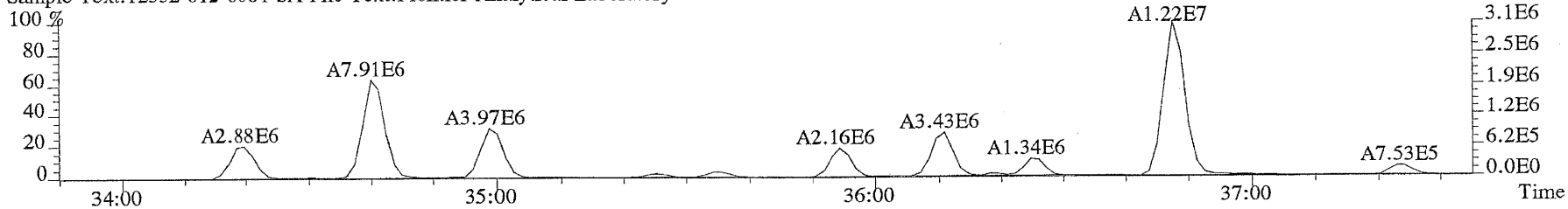
File:25JUL19Z #1-181 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



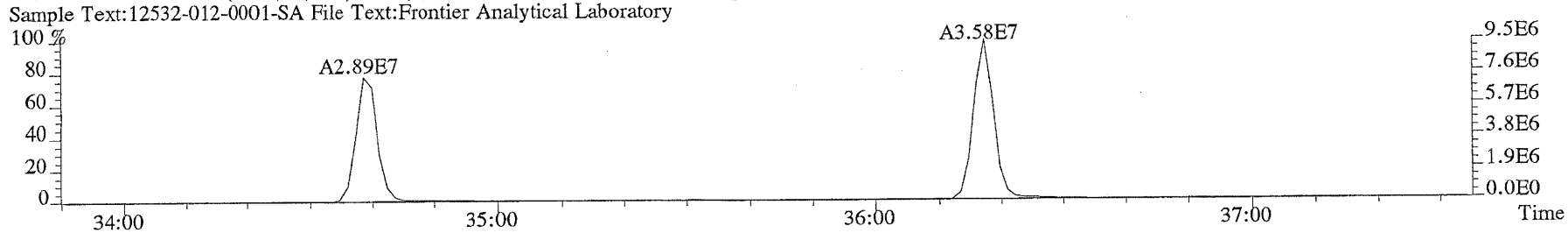
File:25JUL19Z #1-181 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



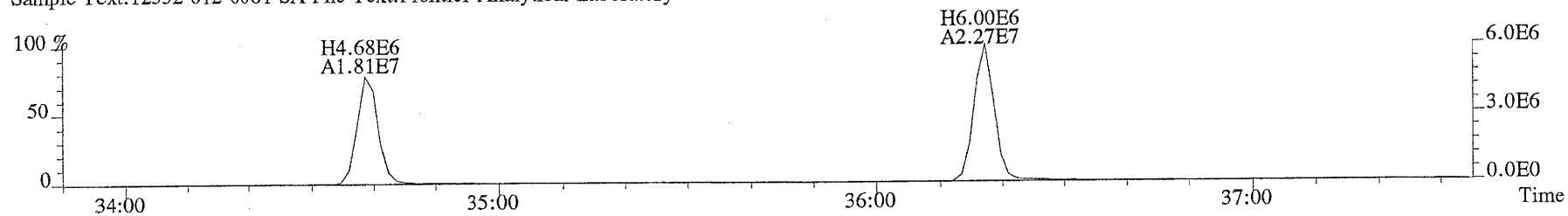
File:25JUL19Z #1-181 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



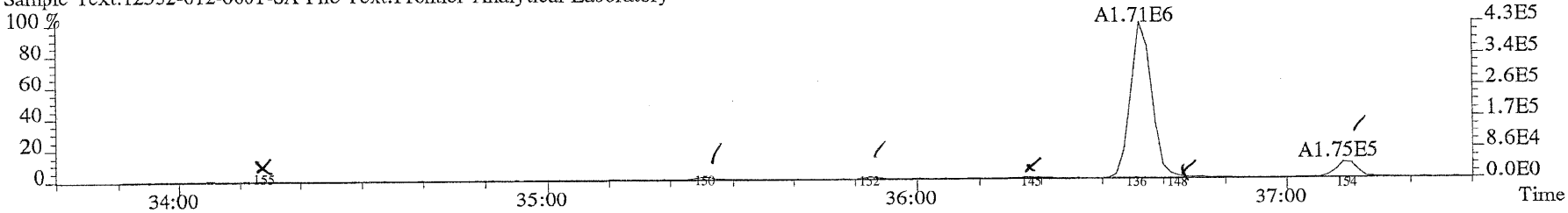
File:25JUL19Z #1-181 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



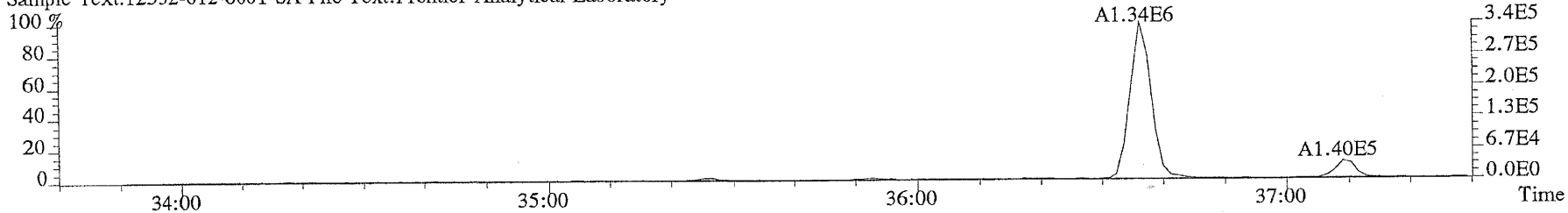
File:25JUL19Z #1-181 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



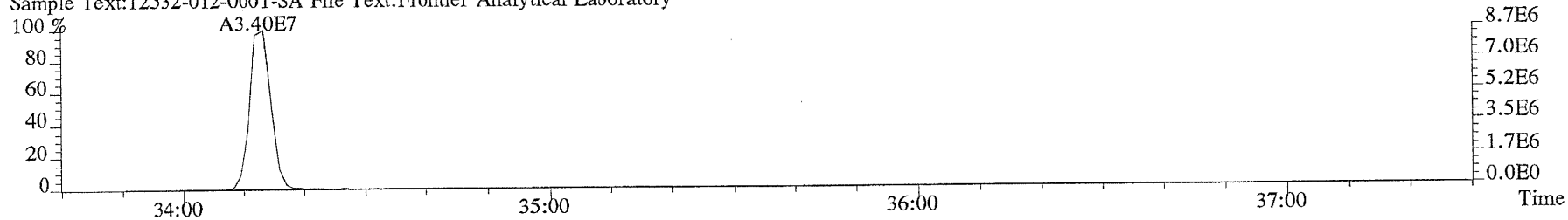
File:25JUL19Z #1-181 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



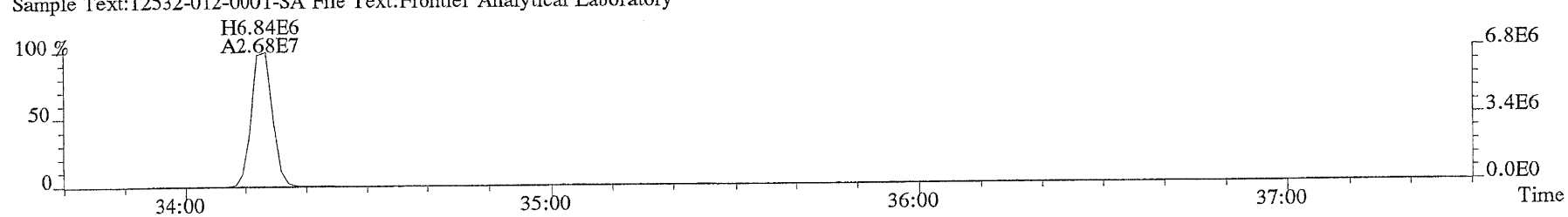
File:25JUL19Z #1-181 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



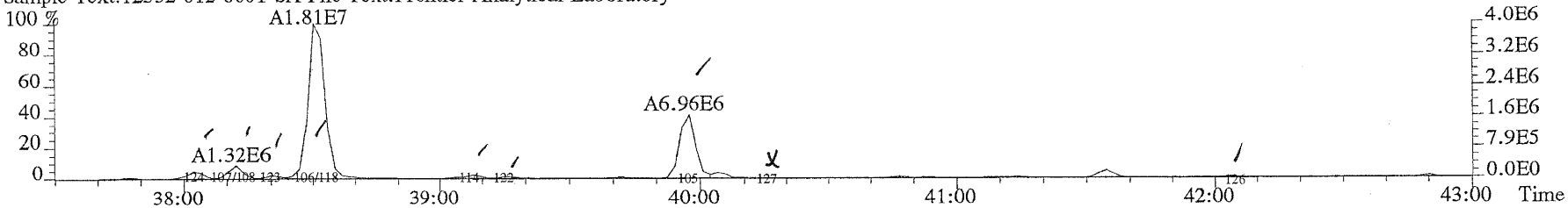
File:25JUL19Z #1-181 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



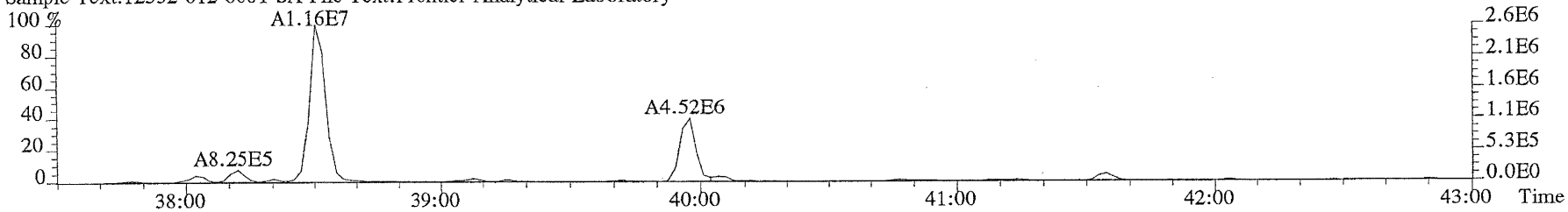
File:25JUL19Z #1-181 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



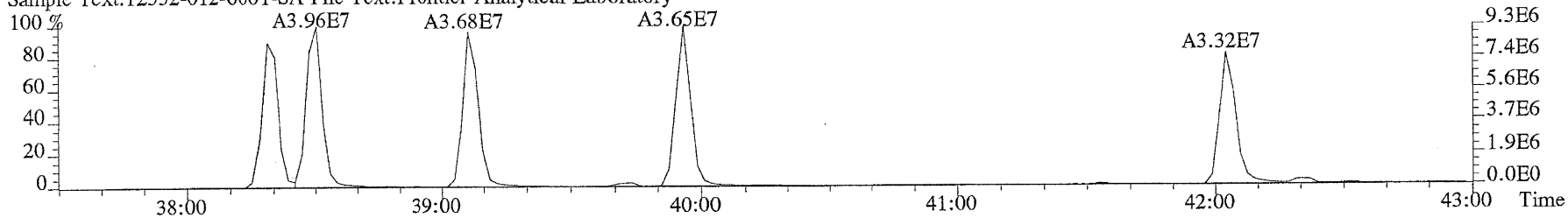
File:25JUL19Z #1-405 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



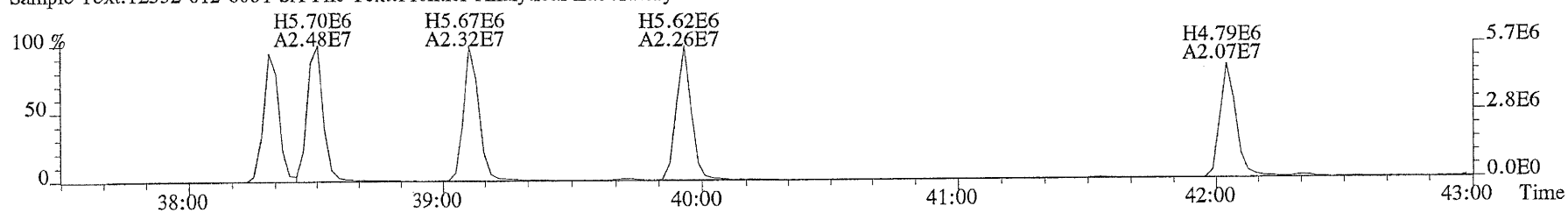
File:25JUL19Z #1-405 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



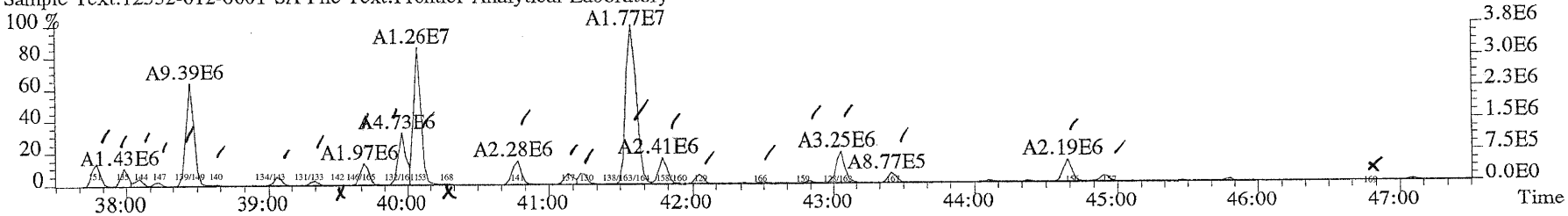
File:25JUL19Z #1-405 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



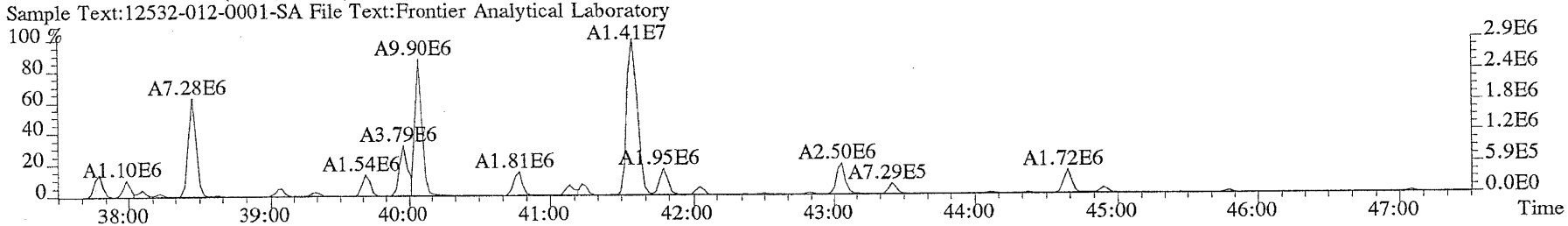
File:25JUL19Z #1-405 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



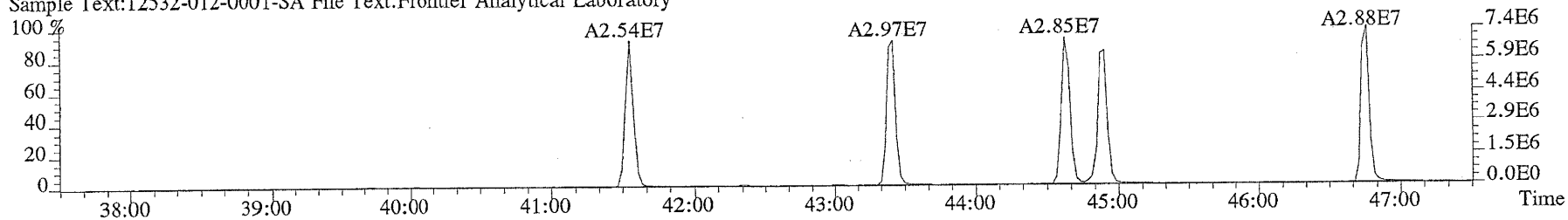
File:25JUL19Z #1-405 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



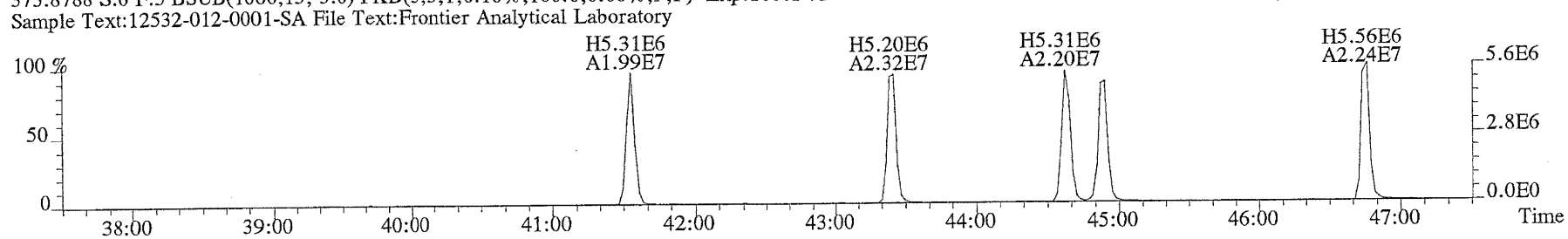
File:25JUL19Z #1-405 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



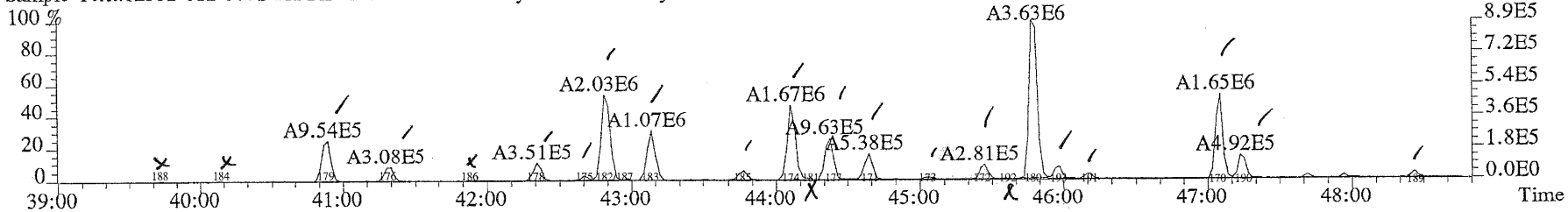
File:25JUL19Z #1-405 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



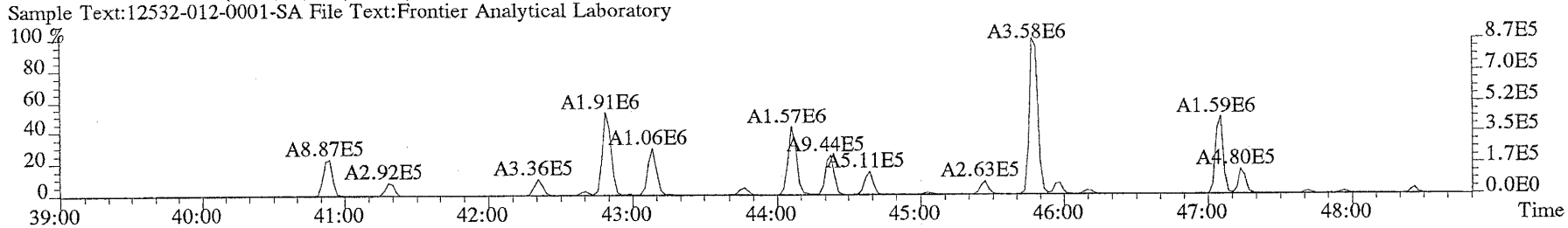
File:25JUL19Z #1-405 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



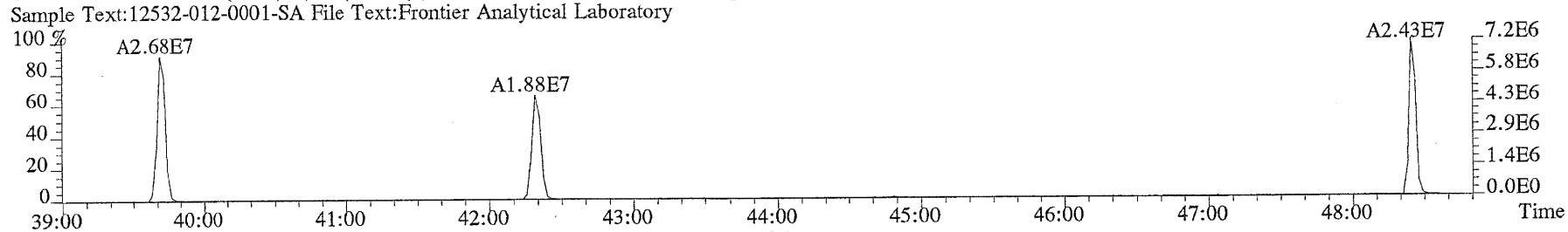
File:25JUL19Z #1-405 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



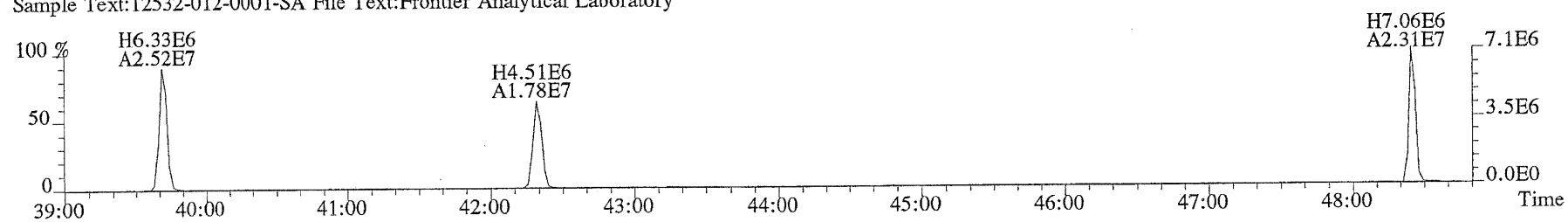
File:25JUL19Z #1-405 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



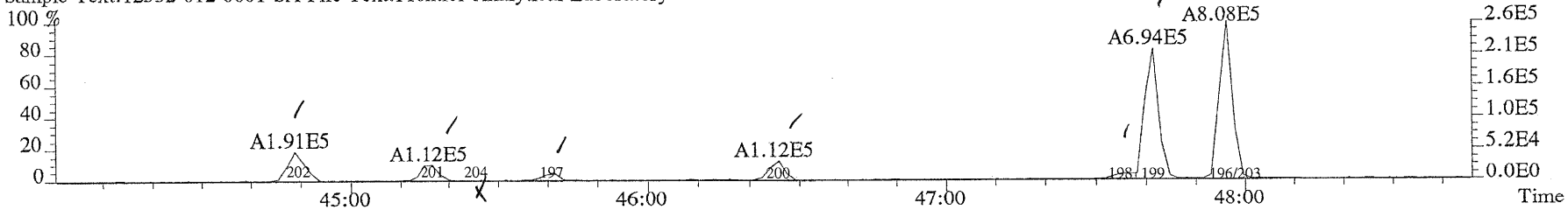
File:25JUL19Z #1-405 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



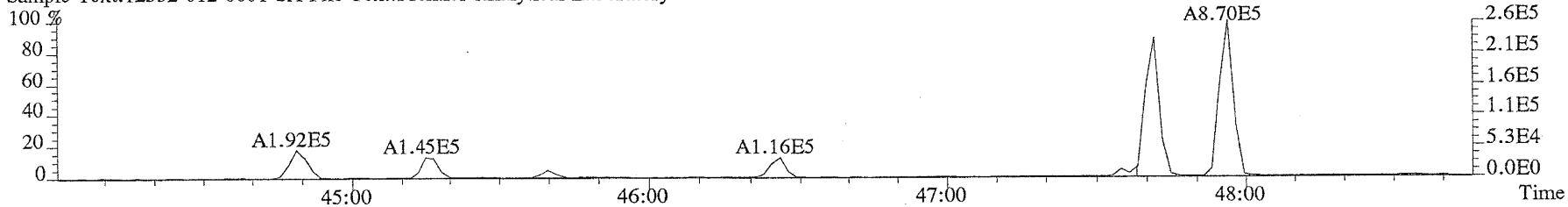
File:25JUL19Z #1-405 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



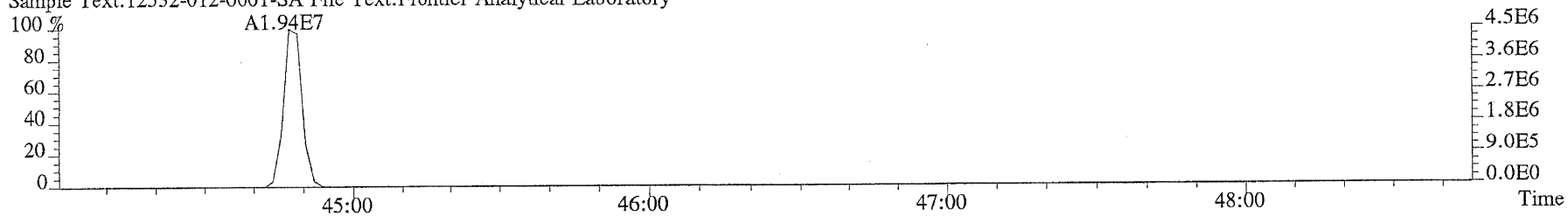
File:25JUL19Z #1-405 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



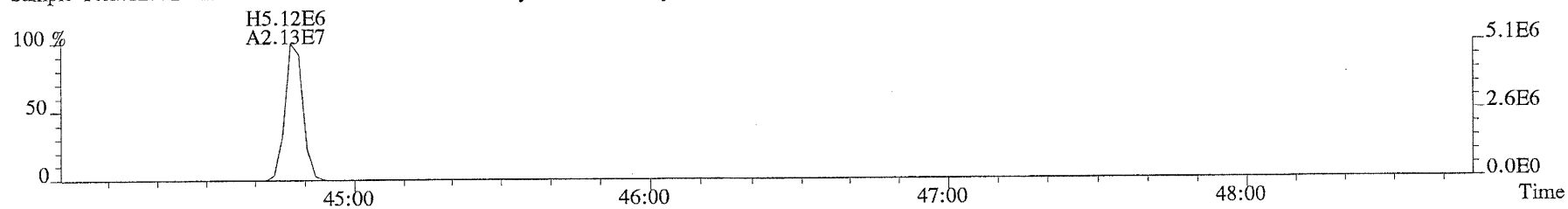
File:25JUL19Z #1-405 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



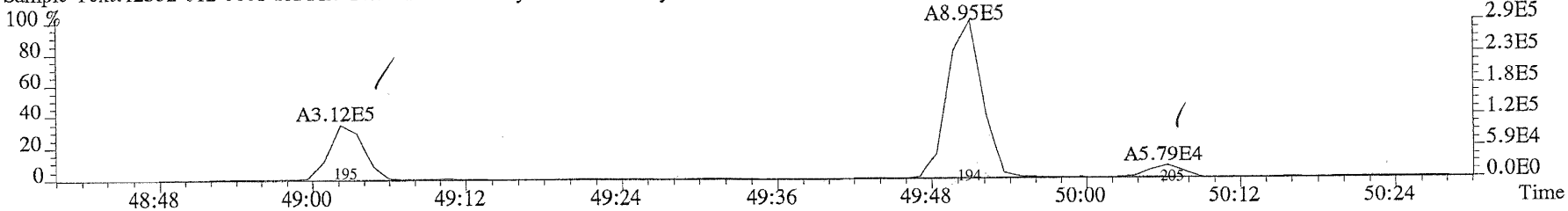
File:25JUL19Z #1-405 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



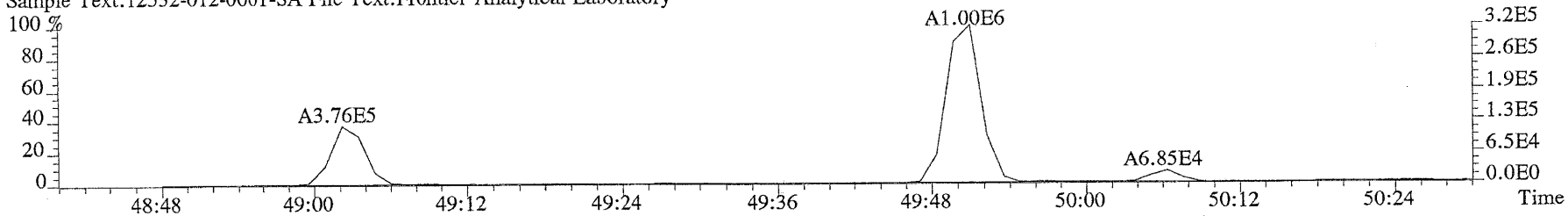
File:25JUL19Z #1-405 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



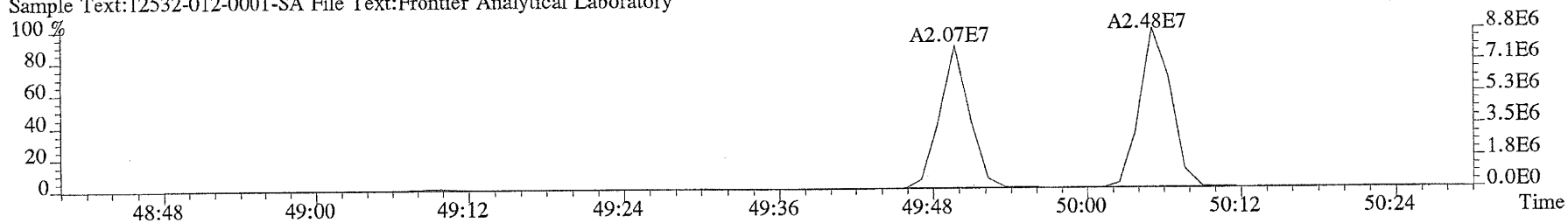
File:25JUL19Z #1-315 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



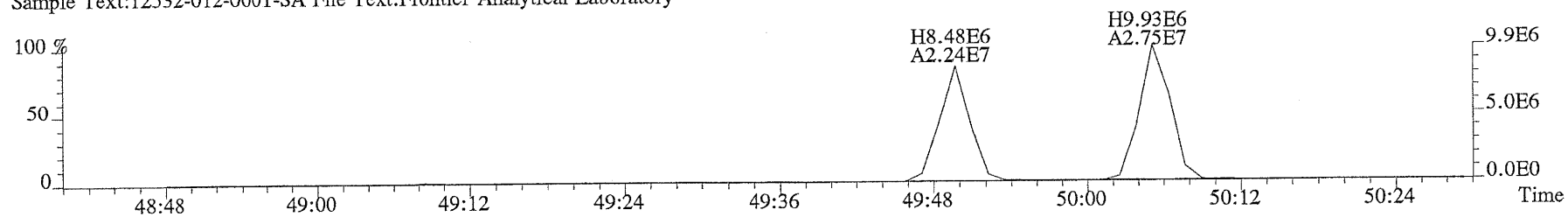
File:25JUL19Z #1-315 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



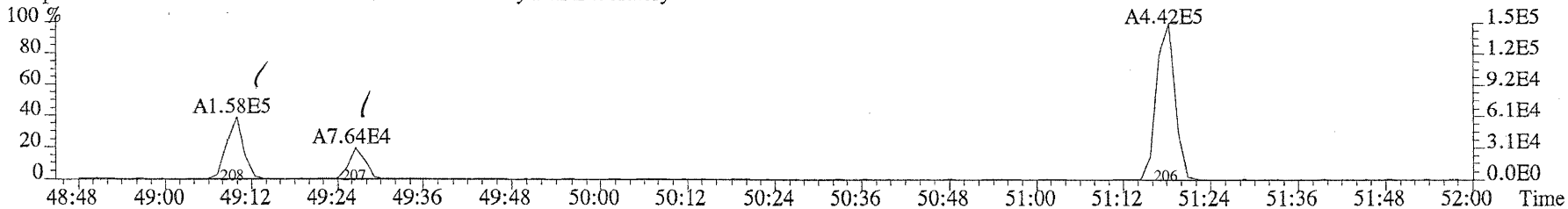
File:25JUL19Z #1-315 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



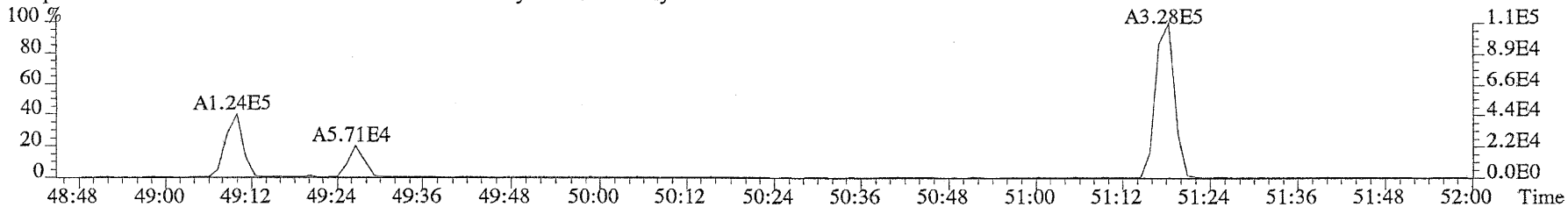
File:25JUL19Z #1-315 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



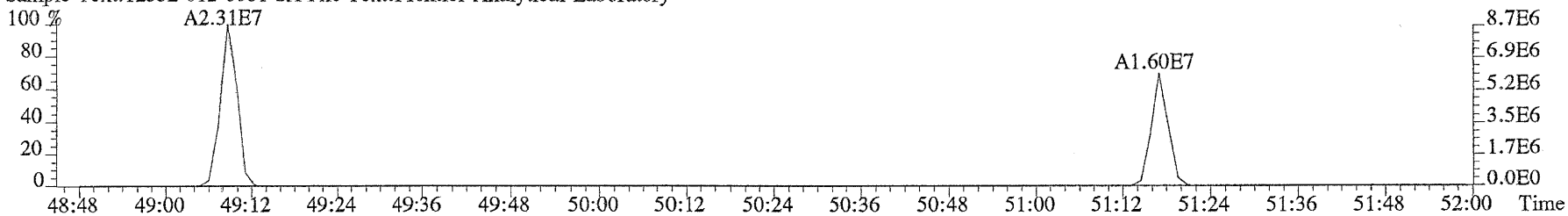
File:25JUL19Z #1-315 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



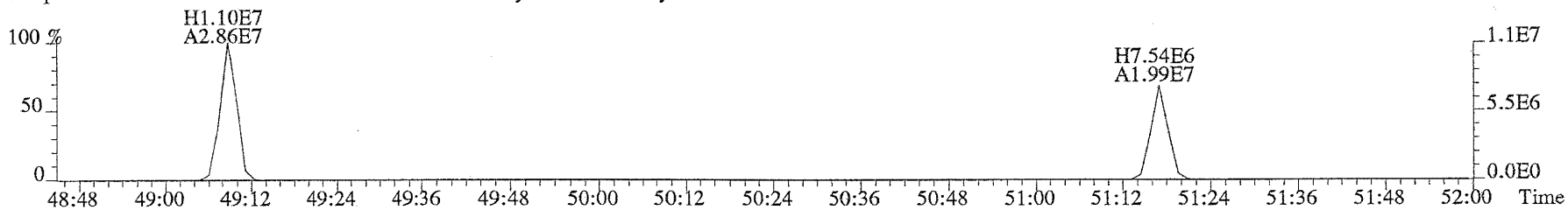
File:25JUL19Z #1-315 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



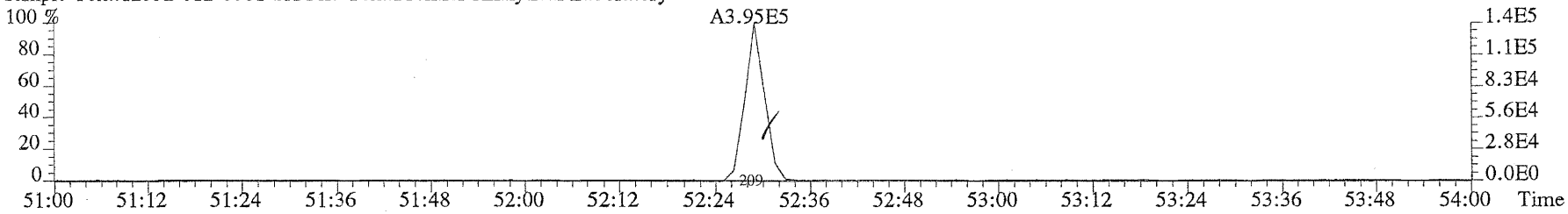
File:25JUL19Z #1-315 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



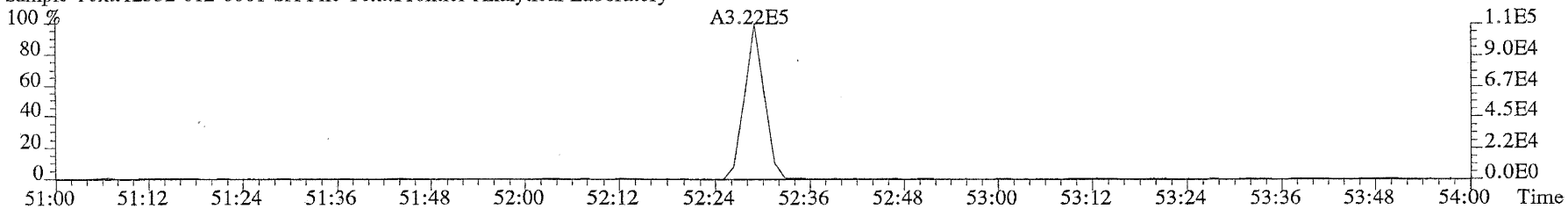
File:25JUL19Z #1-315 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



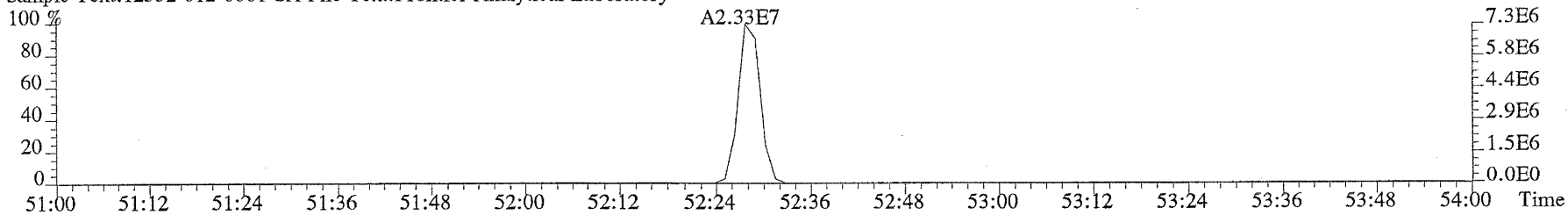
File:25JUL19Z #1-315 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



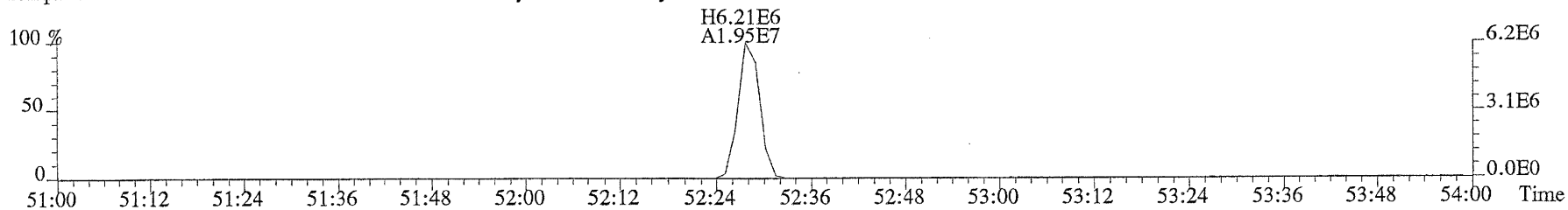
File:25JUL19Z #1-315 Acq:25-JUL-2019 16:03:30 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-012-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 16:03:30 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:12532-012-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 16:03:30 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:12532-012-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12532-013-0001-SA Filename: 25JUL19Z Sam:7 Acquired: 25-JUL-19 17:01:52 ICal: DAILY209FAL4-7-25-19
Client ID: LDW-Y2-SC-ENR-CC-CORE ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 5.430

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	9.97e+05	3.22 y	14:32	1.17	27.4		-	-	*	
13C-PCB-1	5.75e+07	3.15 y	14:32	0.90	1480					80.4
PCB-2	2.83e+05	3.42 y	16:46	1.20	7.36		-	-	*	
PCB-3	9.41e+05	3.26 y	16:59	1.20	24.0		-	-	*	
13C-PCB-3	6.03e+07	3.28 y	16:58	0.87	1600					87.1
PCB-4	4.27e+06	1.36 y	18:13	1.10	163		-	-	*	
PCB-10	2.48e+06	1.59 y	18:15	1.40	53.7		-	-	*	
13C-PCB-4	4.40e+07	1.59 y	18:12	0.66	1560					84.4
PCB-9	1.65e+06	1.54 y	19:55	1.32	37.9		-	-	*	
PCB-7	2.00e+06	1.48 y	19:57	1.48	41.1		-	-	*	
PCB-6	9.45e+06	1.48 y	20:33	1.39	206		-	-	*	
PCB-8	4.51e+07	1.38 y	20:55	1.34	1020		-	-	*	
PCB-5	*	* n	NotFnd	1.36	*		566	2540	0.727	
PCB-14	*	* n	NotFnd	1.30	*		566	2540	0.763	
PCB-11	2.05e+06	1.48 y	23:05	1.23	50.6		-	-	*	
PCB-13	1.06e+06	1.45 y	23:25	1.18	27.1		-	-	*	
PCB-12	2.69e+06	1.55 y	23:27	1.23	66.4		-	-	*	
PCB-15	2.69e+07	1.49 y	23:46	1.10	579		-	-	*	
13C-PCB-15	7.76e+07	1.60 y	23:45	0.90	2000					109
PCB-19	3.28e+06	1.05 y	22:07	1.19	145		-	-	*	
PCB-30	*	* n	NotFnd	1.80	*		1420	1370	0.784	
PCB-18	3.78e+07	1.08 y	23:40	1.17	1690		-	-	*	
PCB-17	1.77e+07	1.07 y	23:50	1.29	721		-	-	*	
PCB-27	2.67e+06	0.98 y	24:21	1.65	84.9		-	-	*	
PCB-24	2.71e+06	1.14 y	24:22	1.76	80.7		-	-	*	
PCB-16	1.67e+07	1.05 y	24:51	1.43	612		-	-	*	
PCB-32	1.51e+07	1.07 y	24:52	1.46	541		-	-	*	
13C-PCB-19	3.50e+07	1.10 y	22:06	0.49	1660					90.3
13C-PCB-9	7.95e+07	1.59 y	19:53	-	8.94					
PCB-34	5.16e+05	1.12 y	25:37	1.20	14.2		-	-	*	
PCB-23	1.72e+05	1.04 y	25:40	1.47	3.86		-	-	*	
PCB-29	8.62e+05	1.07 y	25:57	1.34	21.2		-	-	*	
PCB-26	1.93e+07	1.04 y	26:08	1.27	502		-	-	*	
PCB-25	1.15e+07	1.07 y	26:17	1.26	301		-	-	*	
PCB-31	9.47e+07	1.18 y	26:37	1.28	2450		-	-	*	
PCB-28	1.20e+08	0.96 y	26:44	1.51	2640		-	-	*	
PCB-20	6.71e+07	1.07 y	27:19	1.26	1760		-	-	*	Co-elute PCB 21/33
PCB-21	6.71e+07	1.07 y	27:19	1.26	1760		-	-	*	Co-elute PCB 20/33
PCB-33	6.71e+07	1.07 y	27:19	1.26	1760		-	-	*	Co-elute PCB 20/21
PCB-22	3.89e+07	1.07 y	27:44	1.40	916		-	-	*	
PCB-36	1.10e+05	0.94 y	28:18	1.25	2.92	J	-	-	*	
PCB-39	*	* n	NotFnd	1.24	*		1510	1470	0.949	
PCB-38	6.74e+05	1.10 y	29:30	1.29	17.2		-	-	*	
PCB-35	1.85e+06	1.09 y	30:03	1.13	54.1		-	-	*	
PCB-37	3.23e+07	1.04 y	30:31	1.19	896		-	-	*	
13C-PCB-37	5.57e+07	1.02 y	30:30	1.40	1860					101

PCB-54	1.93e+05	0.86	y	25:39	1.22	6.47	-	-	*	
PCB-50	1.70e+05	0.83	y	26:45	0.89	7.81	-	-	*	
PCB-53	7.07e+06	0.81	y	27:22	0.86	334	-	-	*	
PCB-51	2.59e+06	0.78	y	27:42	0.92	115	-	-	*	
PCB-45	6.56e+06	0.82	y	28:06	0.74	361	-	-	*	
PCB-46	2.51e+06	0.80	y	28:34	0.70	145	-	-	*	
PCB-52	5.82e+07	0.79	y	29:00	0.90	2630	-	-	*	Co-elute PCB 69
PCB-69	5.82e+07	0.79	y	29:00	0.90	2630	-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.12	*	772	805	0.563	
PCB-43	3.80e+07	0.79	y	29:18	0.78	1990	-	-	*	Co-elute PCB 49
PCB-49	3.80e+07	0.79	y	29:18	0.78	1990	-	-	*	Co-elute PCB 43
PCB-47	1.42e+07	0.79	y	29:30	0.85	684	-	-	*	
PCB-48	1.15e+07	0.83	y	29:37	1.01	463	-	-	*	Co-elute PCB 75
PCB-75	1.15e+07	0.83	y	29:37	1.01	463	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*	772	805	0.620	
PCB-62	*	*	n	NotFnd	1.07	*	772	805	0.588	
PCB-44	3.35e+07	0.78	y	30:19	0.67	2050	-	-	*	
PCB-42	1.74e+07	0.81	y	30:34	0.89	795	-	-	*	Co-elute PCB 59
PCB-59	1.74e+07	0.81	y	30:34	0.89	795	-	-	*	Co-elute PCB 42
PCB-72	4.32e+07	0.80	y	31:12	1.00	1760	-	-	*	Co-elute PCB 41/71/64
PCB-41	4.32e+07	0.80	y	31:12	1.00	1760	-	-	*	Co-elute PCB 72/71/64
PCB-71	4.32e+07	0.80	y	31:12	1.00	1760	-	-	*	Co-elute PCB 72/41/64
PCB-64	4.32e+07	0.80	y	31:12	1.00	1760	-	-	*	Co-elute PCB 72/41/71
PCB-68	4.64e+05	0.79	y	31:24	1.14	16.6	-	-	*	
PCB-40	4.39e+05	0.84	y	31:27	0.61	29.3	-	-	*	
PCB-57	4.84e+05	0.82	y	31:52	1.07	18.4	-	-	*	
PCB-67	2.94e+06	0.82	y	32:09	0.99	120	-	-	*	
PCB-58	2.57e+05	0.79	y	32:14	1.11	9.41	-	-	*	
PCB-63	2.96e+06	0.79	y	32:24	1.05	115	-	-	*	
PCB-74	3.74e+07	0.79	y	32:39	1.02	1490	-	-	*	
PCB-61	8.16e+07	0.79	y	32:50	0.97	3440	-	-	*	Co-elute PCB 70
PCB-70	8.16e+07	0.79	y	32:50	0.97	3440	-	-	*	Co-elute PCB 61
PCB-76	7.75e+07	0.79	y	33:03	1.05	3010	-	-	*	Co-elute PCB 66
PCB-66	7.75e+07	0.79	y	33:03	1.05	3010	-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.24	*	772	805	0.508	
PCB-55	2.17e+06	0.76	y	33:32	1.06	83.5	-	-	*	
13C-PCB-54	4.52e+07	0.81	y	25:38	1.36	1560				84.5
PCB-104	*	*	n	NotFnd	1.10	*	480	484	0.530	
PCB-96	4.86e+05	1.52	y	31:28	1.04	24.6	-	-	*	
PCB-103	8.96e+05	1.52	y	31:52	0.84	55.9	-	-	*	
PCB-100	5.36e+05	1.60	y	32:11	0.85	33.2	-	-	*	
PCB-94	2.71e+05	1.33	y	32:36	0.69	20.8	-	-	*	
PCB-98	*	*	n	NotFnd	0.69	*	480	484	0.845	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.69	*	480	484	0.845	Co-elute PCB 98
PCB-95	4.73e+07	1.54	y	33:07	0.77	3230	-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*	480	484	0.748	
PCB-88	8.82e+06	1.50	y	33:29	0.83	557	-	-	*	Co-elute PCB 91
PCB-91	8.82e+06	1.50	y	33:29	0.83	557	-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.89	*	480	484	0.655	
13C-PCB-104	3.50e+07	1.62	y	30:08	1.06	1540				83.7
13C-PCB-28	7.15e+07	1.04	y	26:42	1.72	1950				106
13C-PCB-52	3.94e+07	0.80	y	28:59	-	9.66				

PCB-56	5.62e+07	0.80	y	34:01	1.17	1720		-	-	*	Co-elute PCB 60
PCB-60	5.62e+07	0.80	y	34:01	1.17	1720		-	-	*	Co-elute PCB 56
PCB-79	1.58e+06	0.79	y	35:00	1.22	46.5		-	-	*	
PCB-78	4.06e+05	0.76	y	35:36	1.16	12.5		-	-	*	
PCB-81	2.64e+06	0.75	y	36:11	1.25	76.5		-	-	*	
13C-PCB-81	5.09e+07	0.80	y	36:10	1.37	1990					108
PCB-77	9.39e+06	0.81	y	36:44	1.06	316		-	-	*	
13C-PCB-77	5.16e+07	0.80	y	36:43	1.44	1920					104
PCB-155	*	*	n	NotFnd	1.04	*		760	720	0.571	
PCB-150	3.41e+05	1.16	y	35:27	0.95	15.7		-	-	*	
PCB-152	1.08e+05	1.23	y	35:53	0.90	5.25		-	-	*	
PCB-145	3.71e+04	1.10	y	36:19	0.93	1.75	J	-	-	*	
PCB-136	1.42e+07	1.26	y	36:38	0.93	665		-	-	*	
PCB-148	*	*	n	NotFnd	0.62	*		760	720	0.950	
PCB-154	2.07e+06	1.24	y	37:10	0.75	121		-	-	*	
13C-PCB-155	4.21e+07	1.30	y	34:13	1.44	1570					85.1
13C-PCB-111	3.95e+07	1.59	y	36:17	1.22	1730					94.1
13C-PCB-101	3.44e+07	1.61	y	34:40	-	10.4					
PCB-84	2.35e+07	1.59	y	34:20	0.83	1140		-	-	*	Co-elute PCB 92
PCB-92	2.35e+07	1.59	y	34:20	0.83	1140		-	-	*	Co-elute PCB 84
PCB-89	7.46e+05	1.62	y	34:31	0.81	37.0		-	-	*	
PCB-90	7.35e+07	1.57	y	34:41	0.89	3330		-	-	*	Co-elute PCB 101
PCB-101	7.35e+07	1.57	y	34:41	0.89	3330		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.02	*		828	982	0.732	
PCB-99	3.38e+07	1.55	y	35:00	0.98	1390		-	-	*	
PCB-119	2.42e+06	1.55	y	35:27	1.13	85.6		-	-	*	
PCB-83	3.12e+06	1.57	y	35:36	0.90	140		-	-	*	Co-elute PCB 112
PCB-112	3.12e+06	1.57	y	35:36	0.90	140		-	-	*	Co-elute PCB 83
PCB-109	8.98e+04	1.37	y	35:44	1.08	3.33	J	-	-	*	
PCB-97	1.87e+07	1.58	y	35:56	0.73	1030		-	-	*	
PCB-86	*	*	n	NotFnd	0.79	*		828	982	0.944	
PCB-125	2.87e+07	1.57	y	36:11	0.97	1190		-	-	*	Co-elute PCB 87/117
PCB-87	2.87e+07	1.57	y	36:11	0.97	1190		-	-	*	Co-elute PCB 125/117
PCB-117	2.87e+07	1.57	y	36:11	0.97	1190		-	-	*	Co-elute PCB 125/87
PCB-111	2.03e+06	1.53	y	36:20	1.13	71.8		-	-	*	Co-elute PCB 115
PCB-115	2.03e+06	1.53	y	36:20	1.13	71.8		-	-	*	Co-elute PCB 111
PCB-85	1.16e+07	1.59	y	36:26	0.97	477		-	-	*	Co-elute PCB 116
PCB-116	1.16e+07	1.59	y	36:26	0.97	477		-	-	*	Co-elute PCB 85
PCB-120	5.58e+05	1.54	y	36:38	1.18	19.1		-	-	*	
PCB-110	9.46e+07	1.58	y	36:49	1.10	3440		-	-	*	
PCB-82	6.26e+06	1.54	y	37:24	0.62	405		-	-	*	
PCB-124	4.61e+06	1.59	y	38:04	1.10	168		-	-	*	
PCB-108	6.66e+06	1.53	y	38:12	1.20	224		-	-	*	Co-elute PCB 107
PCB-107	6.66e+06	1.53	y	38:12	1.20	224		-	-	*	Co-elute PCB 108
PCB-123	1.69e+06	1.54	y	38:20	1.01	68.6		-	-	*	
13C-PCB-123	4.49e+07	1.59	y	38:20	1.31	1880					102
PCB-118	9.35e+07	1.58	y	38:32	1.09	3330		-	-	*	Co-elute PCB 106
PCB-106	9.35e+07	1.58	y	38:32	1.09	3330		-	-	*	Co-elute PCB 118
13C-PCB-118	4.76e+07	1.59	y	38:30	1.46	1790					97.4
PCB-114	2.67e+06	1.57	y	39:08	1.14	92.4		-	-	*	
13C-PCB-114	4.69e+07	1.59	y	39:08	1.34	1930					105
PCB-122	1.39e+06	1.49	y	39:16	1.16	48.0		-	-	*	
PCB-105	3.83e+07	1.58	y	39:58	1.19	1340		-	-	*	
13C-PCB-105	4.42e+07	1.58	y	39:56	1.32	1850					100

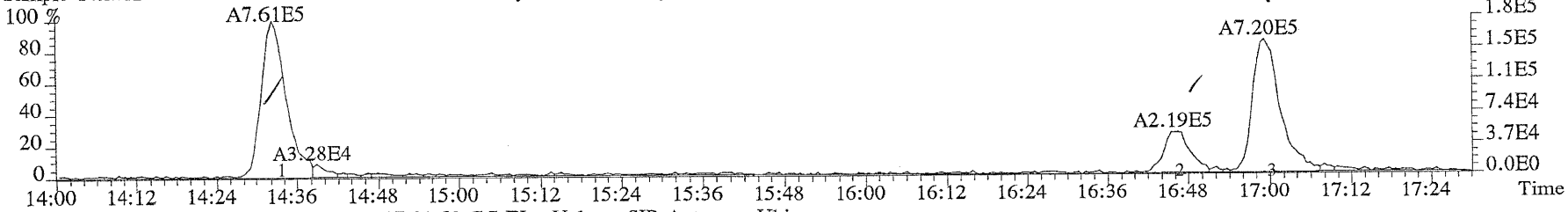
PCB-127	*	*	n	NotFnd	1.06	*	1360	1020	0.931	
PCB-126	6.33e+05	1.40	y	42:04	1.13	23.5	-	-	*	
13C-PCB-126	4.39e+07	1.59	y	42:03	1.20	2020				110
PCB-151	1.99e+07	1.28	y	37:47	0.98	979	-	-	*	
PCB-135	1.07e+07	1.38	y	37:59	0.92	559	-	-	*	
PCB-144	4.79e+06	1.11	y	38:06	1.05	219	-	-	*	
PCB-147	1.94e+06	1.29	y	38:14	1.09	85.9	-	-	*	
PCB-139	8.33e+07	1.26	y	38:27	1.08	3740	-	-	*	Co-elute PCB 149
PCB-149	8.33e+07	1.26	y	38:27	1.08	3740	-	-	*	Co-elute PCB 139
PCB-140	8.78e+05	1.24	y	38:38	1.07	39.7	-	-	*	
PCB-143	4.41e+06	1.26	y	39:05	0.86	248	-	-	*	Co-elute PCB 134
PCB-134	4.41e+06	1.26	y	39:05	0.86	248	-	-	*	Co-elute PCB 143
PCB-131	2.54e+06	1.25	y	39:20	0.85	144	-	-	*	Co-elute PCB 133
PCB-133	2.54e+06	1.25	y	39:20	0.85	144	-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.86	*	991	745	0.965	
PCB-165	1.56e+07	1.28	y	39:43	1.17	642	-	-	*	Co-elute PCB 146
PCB-146	1.56e+07	1.28	y	39:43	1.17	642	-	-	*	Co-elute PCB 165
PCB-161	2.82e+07	1.25	y	39:58	1.07	1270	-	-	*	Co-elute PCB 132
PCB-132	2.82e+07	1.25	y	39:58	1.07	1270	-	-	*	Co-elute PCB 161
PCB-153	1.13e+08	1.28	y	40:04	1.16	4680	-	-	*	
PCB-168	*	*	n	NotFnd	1.27	*	991	745	0.655	
PCB-141	1.60e+07	1.21	y	40:47	0.93	832	-	-	*	
PCB-137	3.92e+06	1.25	y	41:08	0.87	217	-	-	*	
PCB-130	5.25e+06	1.26	y	41:15	0.85	298	-	-	*	
PCB-138	1.16e+08	1.28	y	41:35	1.13	4960	-	-	*	Co-elute PCB 163/164
PCB-163	1.16e+08	1.28	y	41:35	1.13	4960	-	-	*	Co-elute PCB 138/164
PCB-164	1.16e+08	1.28	y	41:35	1.13	4960	-	-	*	Co-elute PCB 138/163
PCB-158	1.33e+07	1.26	y	41:48	1.27	506	-	-	*	Co-elute PCB 160
PCB-160	1.33e+07	1.26	y	41:48	1.27	506	-	-	*	Co-elute PCB 158
PCB-129	3.22e+06	1.27	y	42:03	0.79	197	-	-	*	
PCB-166	4.07e+05	1.22	y	42:31	1.20	16.4	-	-	*	
PCB-159	1.96e+06	1.27	y	42:50	1.31	72.4	-	-	*	
PCB-128	1.54e+07	1.24	y	43:04	1.03	723	-	-	*	Co-elute PCB 162
PCB-162	1.54e+07	1.24	y	43:04	1.03	723	-	-	*	Co-elute PCB 128
PCB-167	4.91e+06	1.22	y	43:27	1.13	211	-	-	*	
13C-PCB-167	3.80e+07	1.29	y	43:25	1.15	1820				98.7
PCB-156	1.26e+07	1.25	y	44:39	1.23	498	-	-	*	
13C-PCB-156	3.79e+07	1.27	y	44:39	1.11	1880				102
PCB-157	2.75e+06	1.23	y	44:55	1.15	111	-	-	*	
13C-PCB-157	3.95e+07	1.31	y	44:54	1.14	1900				103
PCB-169	*	*	n	NotFnd	1.11	*	991	745	0.688	
13C-PCB-169	3.73e+07	1.27	y	46:46	1.08	1900				103

FAL ID: 12532-013-0001-SA Filename: 25JUL19Z Sam:7 Acquired: 25-JUL-19 17:01:52 ICal: DAILY209FAL4-7-25-19
Client ID: LDW-Y2-SC-ENR-CC-CORE ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 5.430

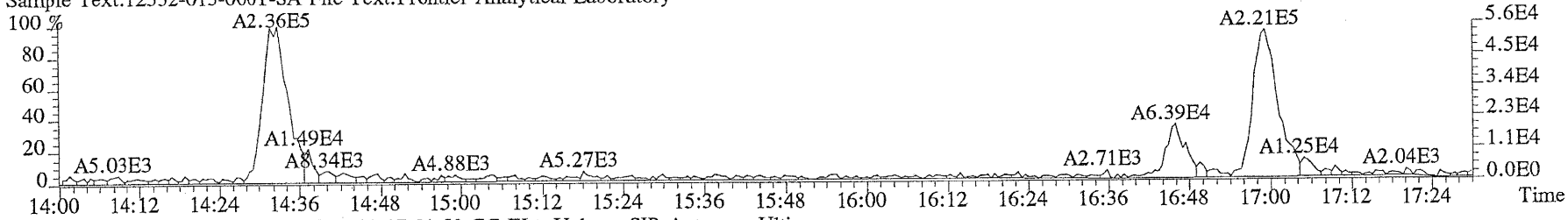
PCB-188	9.09e+04	0.91	y	39:44	1.06	4.14		-	-	*	
13C-PCB-188	3.83e+07	1.06	y	39:43	1.26	1670					90.6
PCB-184	*	*	n	NotFnd	1.24	*		770	630	0.521	
PCB-179	1.41e+07	1.04	y	40:53	1.13	649		-	-	*	
PCB-176	4.71e+06	1.07	y	41:20	1.08	225		-	-	*	
PCB-186	*	*	n	NotFnd	1.13	*		770	630	0.573	
PCB-178	4.77e+06	1.04	y	42:21	0.76	326		-	-	*	
PCB-175	1.04e+06	1.01	y	42:40	0.77	70.1		-	-	*	
PCB-187	3.31e+07	1.04	y	42:50	0.86	2000		-	-	*	Co-elute PCB 182
PCB-182	3.31e+07	1.04	y	42:50	0.86	2000		-	-	*	Co-elute PCB 187
PCB-183	1.62e+07	1.04	y	43:08	0.83	1020		-	-	*	
PCB-185	2.82e+06	1.08	y	43:46	0.74	196		-	-	*	
PCB-174	2.24e+07	1.04	y	44:06	0.79	1470		-	-	*	
PCB-181	*	*	n	NotFnd	0.70	*		770	630	0.918	
PCB-177	1.35e+07	1.05	y	44:23	0.68	1030		-	-	*	
PCB-171	6.96e+06	1.04	y	44:39	0.74	487		-	-	*	
PCB-173	3.87e+05	0.96	y	45:04	0.66	30.5		-	-	*	
PCB-172	3.80e+06	1.06	y	45:27	0.69	284		-	-	*	
PCB-192	*	*	n	NotFnd	0.94	*		770	630	0.688	
PCB-180	5.22e+07	1.05	y	45:48	0.69	3910		-	-	*	
PCB-193	3.84e+06	1.04	y	45:58	0.98	202		-	-	*	
PCB-191	1.32e+06	1.06	y	46:11	0.94	72.3		-	-	*	
PCB-170	2.19e+07	1.06	y	47:06	0.66	1720		-	-	*	
PCB-190	6.36e+06	1.04	y	47:15	0.93	353		-	-	*	
PCB-189	1.22e+06	1.04	y	48:26	1.02	66.9		-	-	*	
13C-PCB-189	3.28e+07	1.06	y	48:26	1.00	1800					97.7
PCB-202	3.30e+06	0.91	y	44:49	1.04	196		-	-	*	
PCB-201	2.28e+06	0.93	y	45:17	1.12	125		-	-	*	
PCB-204	*	*	n	NotFnd	1.09	*		440	1030	0.872	
PCB-197	6.84e+05	0.94	y	45:40	1.15	36.5		-	-	*	
PCB-200	2.01e+06	0.92	y	46:26	1.10	112		-	-	*	
PCB-198	5.81e+05	0.87	y	47:37	0.73	48.9		-	-	*	
PCB-199	1.14e+07	0.88	y	47:42	0.76	918		-	-	*	
PCB-203	1.41e+07	0.90	y	47:57	0.85	1020		-	-	*	Co-elute PCB 196
PCB-196	1.41e+07	0.90	y	47:57	0.85	1020		-	-	*	Co-elute PCB 203
13C-PCB-202	2.99e+07	0.90	y	44:49	0.97	1700					92.4
13C-PCB-178	2.61e+07	1.06	y	42:21	0.83	1740					94.2
13C-PCB-138	3.35e+07	1.29	y	41:33	-	10.9					
PCB-195	5.46e+06	0.88	y	49:02	0.77	402		-	-	*	
PCB-194	1.33e+07	0.89	y	49:51	0.84	901		-	-	*	
PCB-205	8.82e+05	0.90	y	50:07	1.04	47.8		-	-	*	
13C-PCB-205	3.25e+07	0.91	y	50:05	1.31	1710					92.9
PCB-208	2.64e+06	1.39	y	49:10	1.00	143		-	-	*	
13C-PCB-208	3.39e+07	0.82	y	49:09	1.32	1760					95.7
PCB-207	1.08e+06	1.36	y	49:28	1.15	62.7		-	-	*	
PCB-206	5.87e+06	1.31	y	51:20	1.04	491		-	-	*	
13C-PCB-206	2.12e+07	0.82	y	51:18	0.97	1500					81.2
PCB-209	6.51e+06	1.19	y	52:30	1.11	452		-	-	*	
13C-PCB-209	2.39e+07	1.19	y	52:30	1.23	1330					72.2
13C-PCB-194	2.68e+07	0.93	y	49:50	-	9.92					

Analyst: [signature] Date: 7/26/19

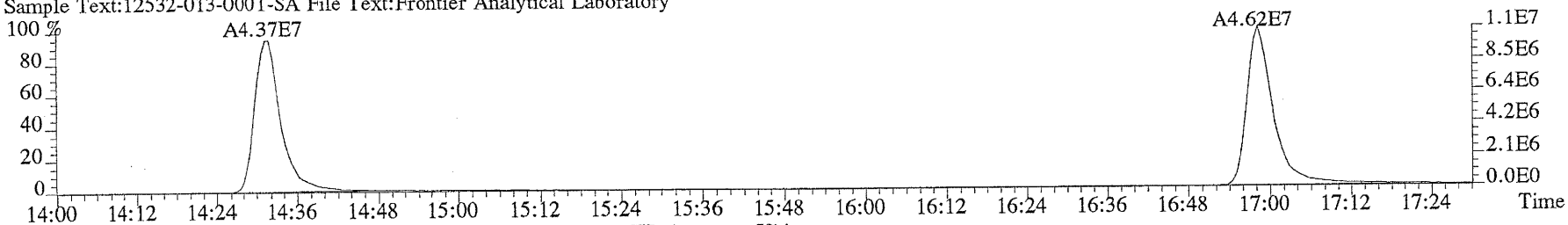
File:25JUL19Z #1-783 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



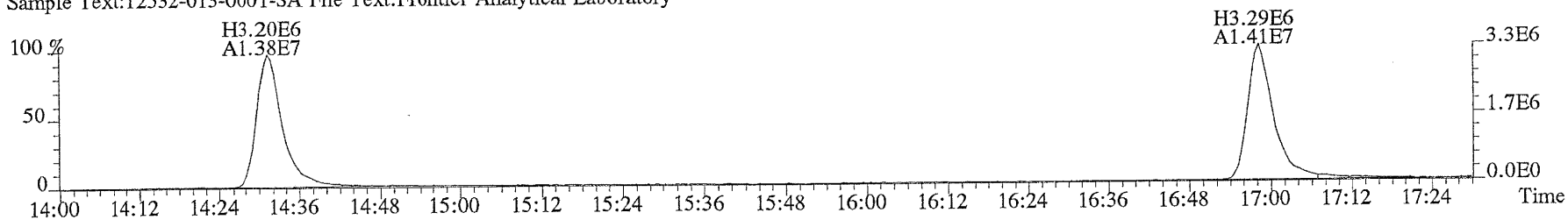
File:25JUL19Z #1-783 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



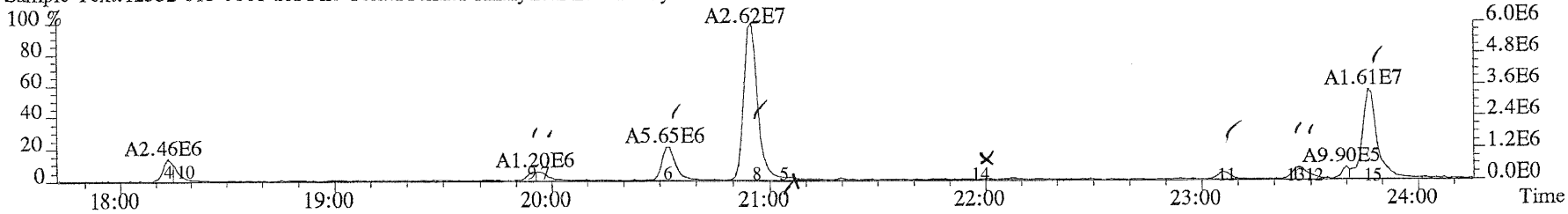
File:25JUL19Z #1-783 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



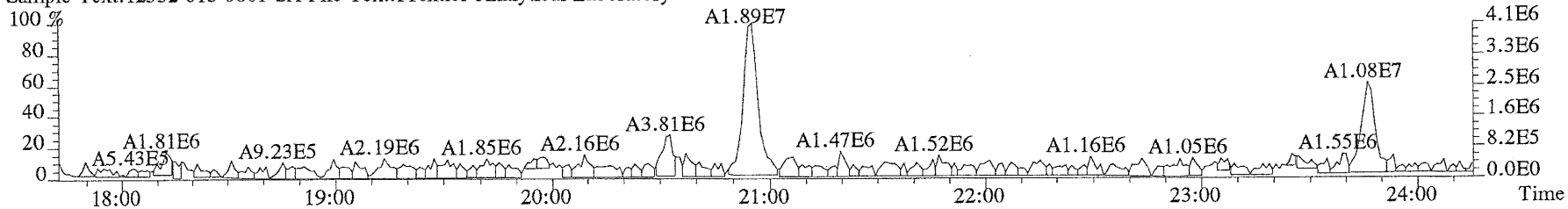
File:25JUL19Z #1-783 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



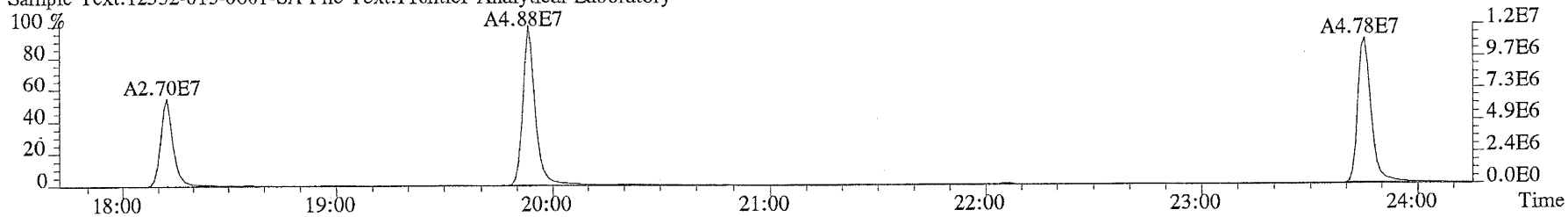
File:25JUL19Z #1-520 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



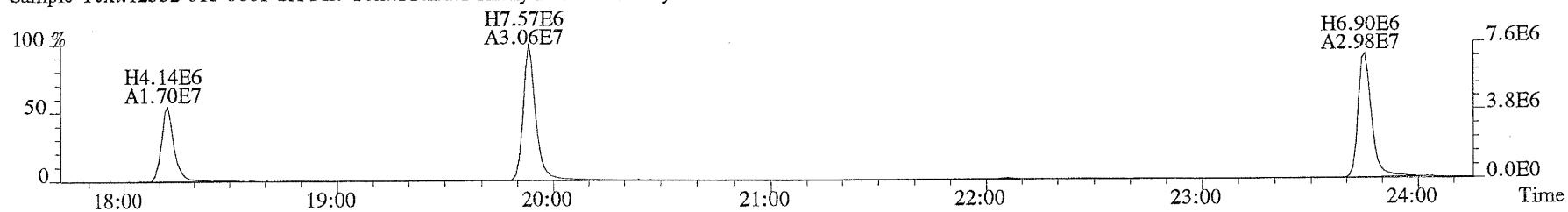
File:25JUL19Z #1-520 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



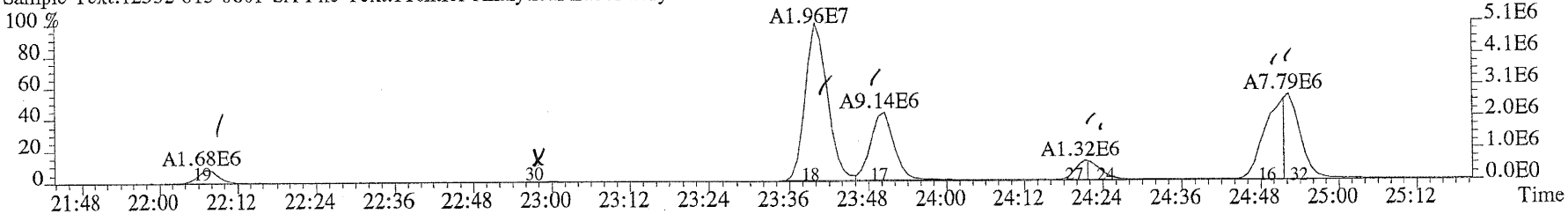
File:25JUL19Z #1-520 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



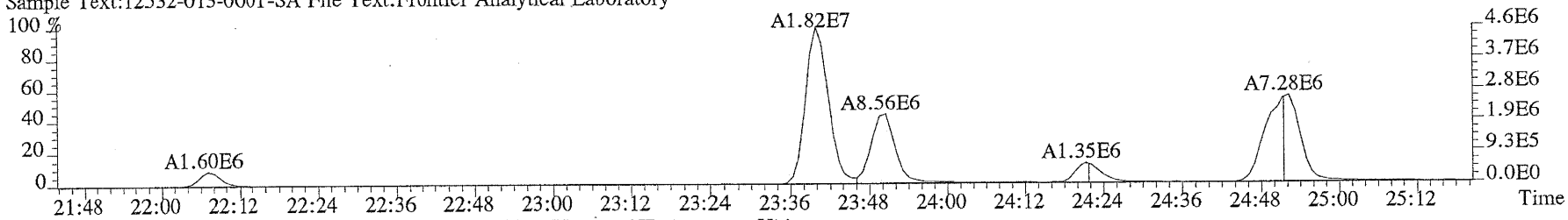
File:25JUL19Z #1-520 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



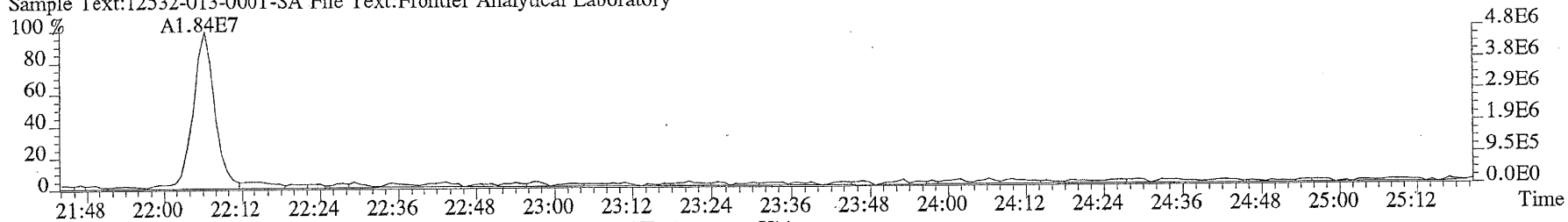
File:25JUL19Z #1-520 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



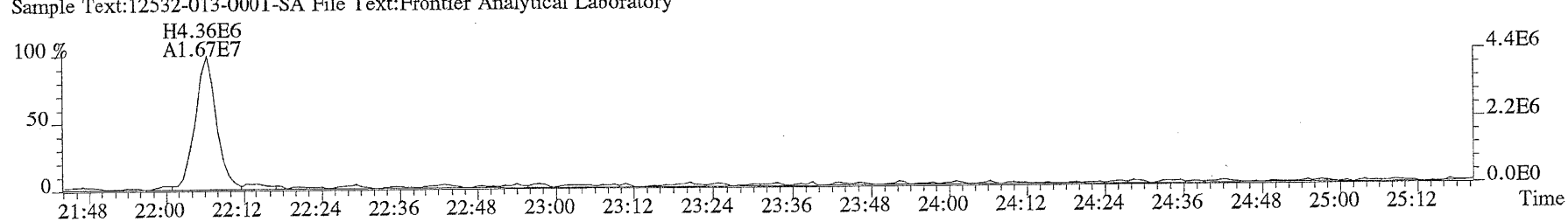
File:25JUL19Z #1-520 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



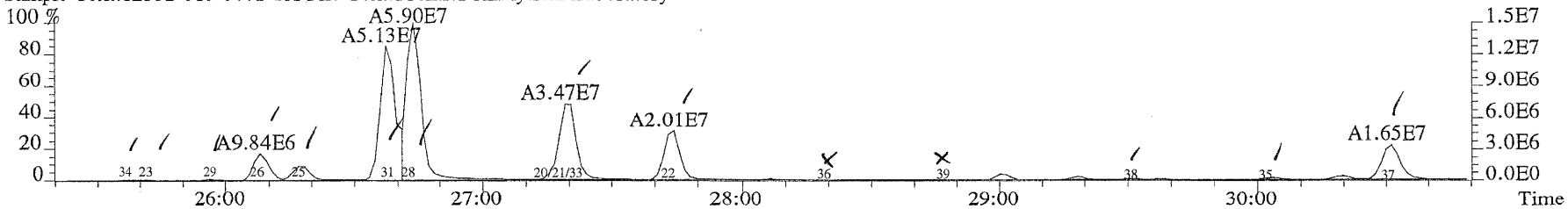
File:25JUL19Z #1-520 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



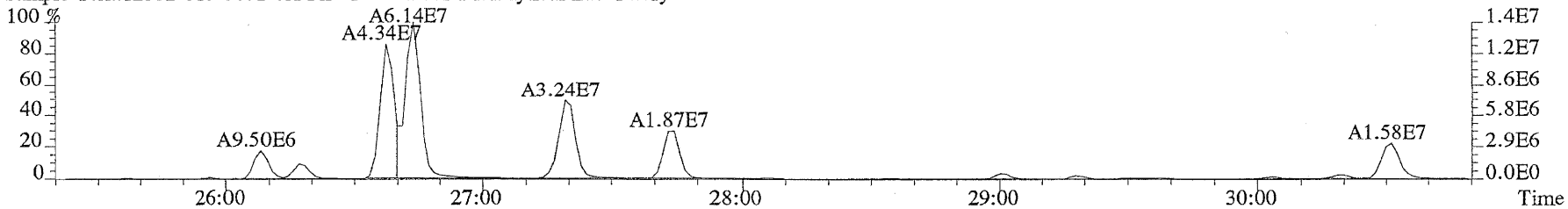
File:25JUL19Z #1-520 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



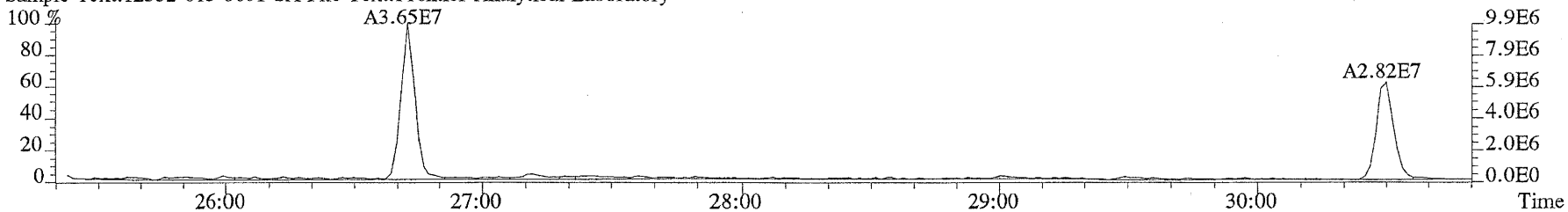
File:25JUL19Z #1-401 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



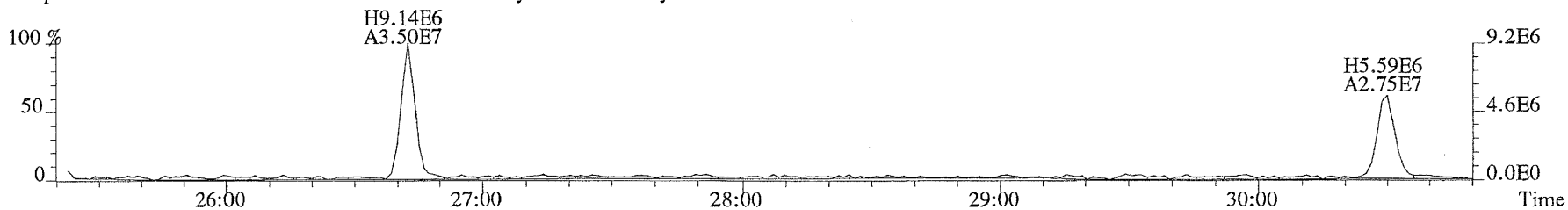
File:25JUL19Z #1-401 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



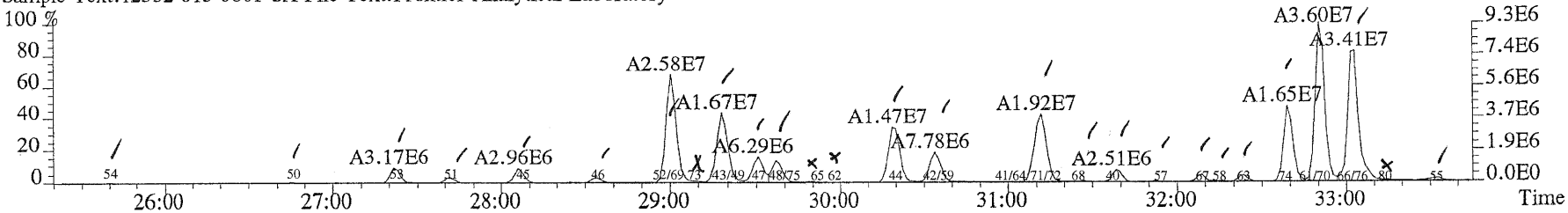
File:25JUL19Z #1-401 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



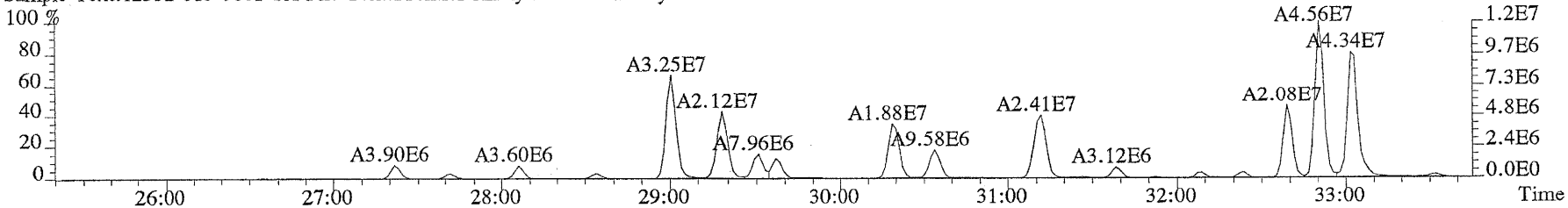
File:25JUL19Z #1-401 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



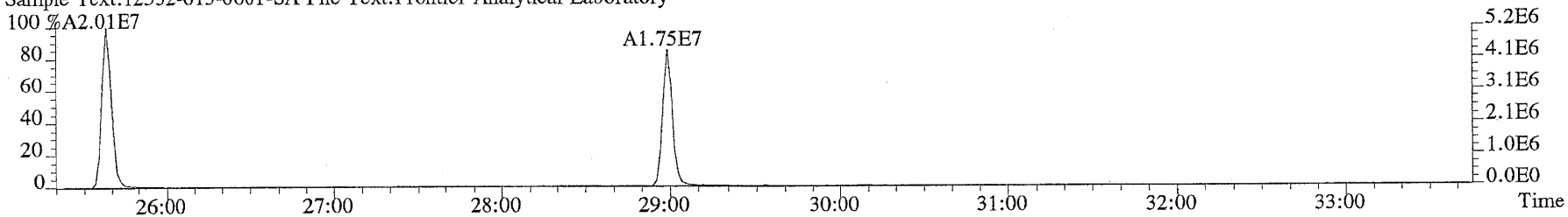
File:25JUL19Z #1-401 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



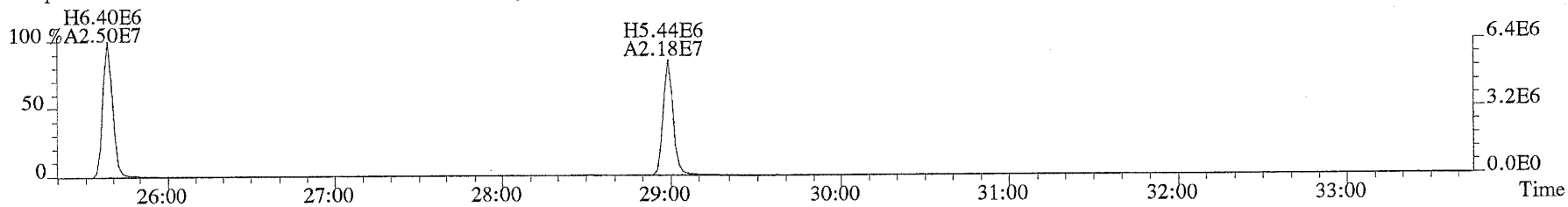
File:25JUL19Z #1-401 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



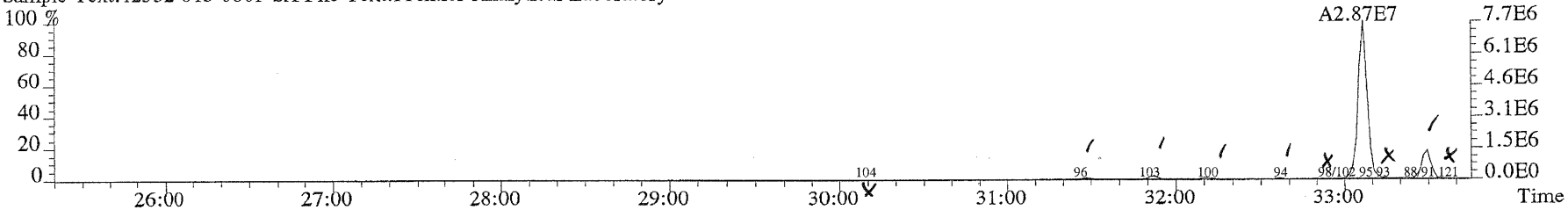
File:25JUL19Z #1-401 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



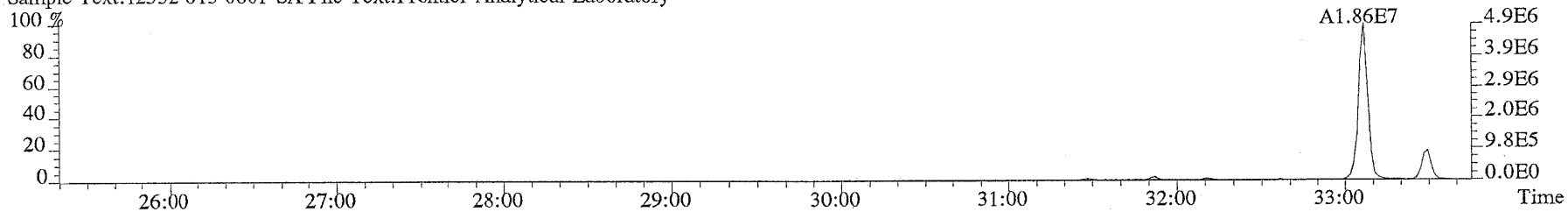
File:25JUL19Z #1-401 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-401 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
325.8804 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:12532-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-401 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
327.8775 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:12532-013-0001-SA File Text:Frontier Analytical Laboratory



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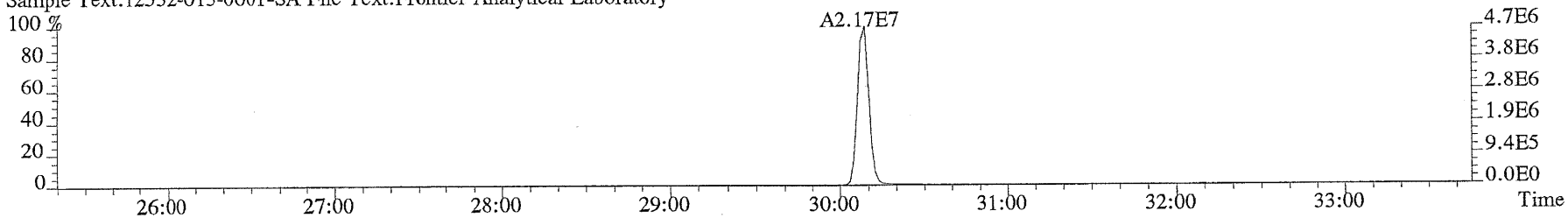
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



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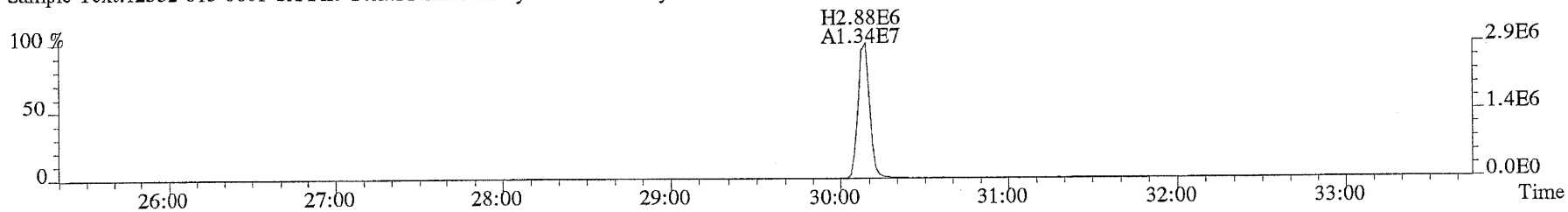
339.9178 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



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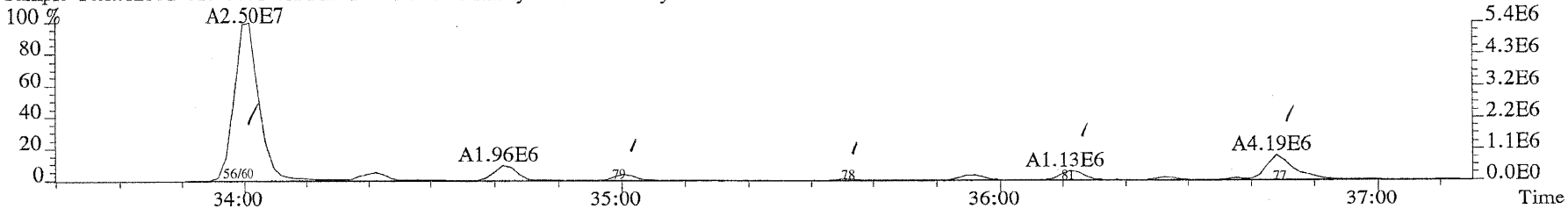
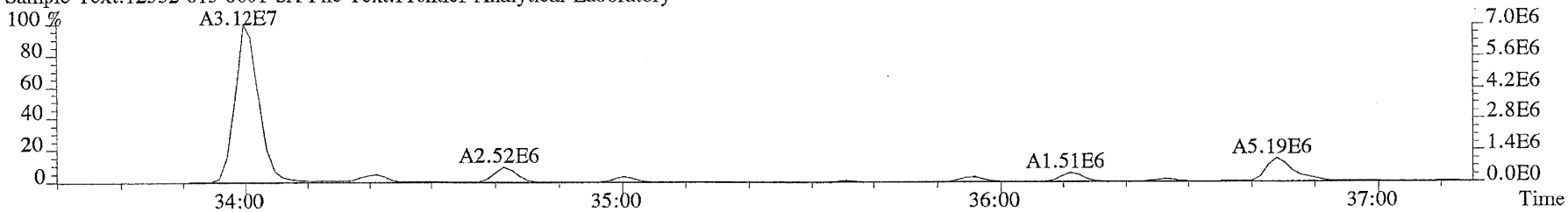
289.9224 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-181 Acq:25-JUL-2019 17:01:52 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:12532-013-0001-SA File Text:Frontier Analytical Laboratory



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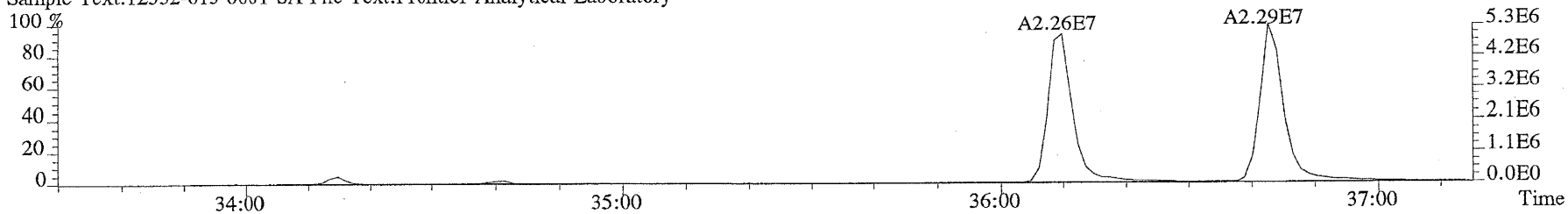
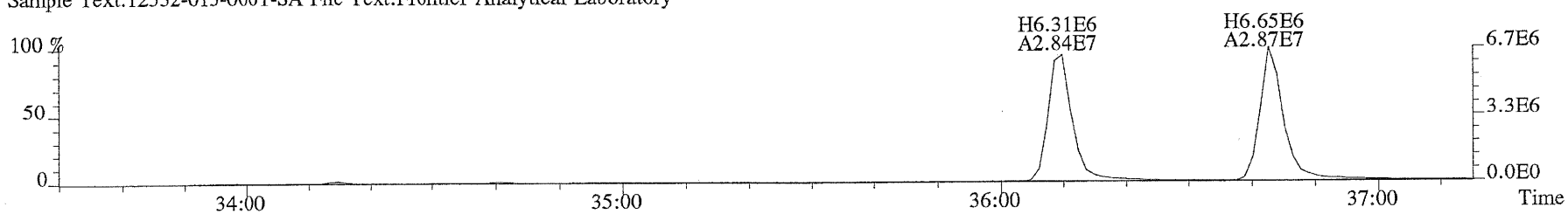
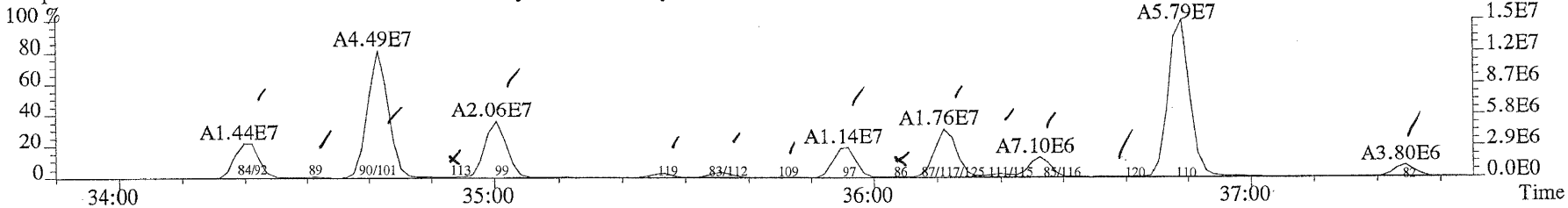
301.9626 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



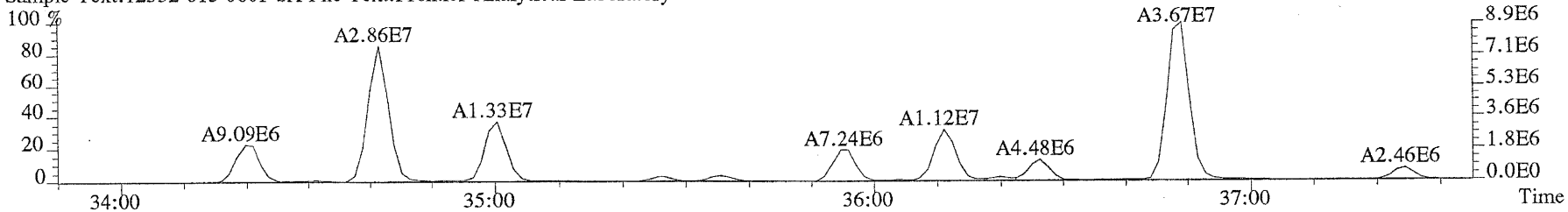
File:25JUL19Z #1-181 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



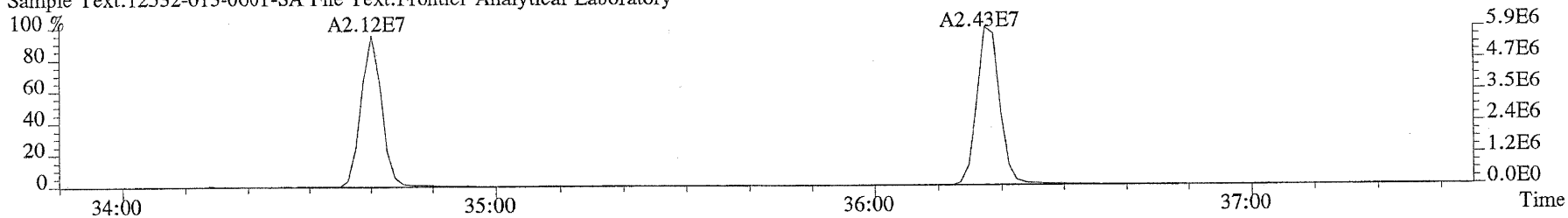
File:25JUL19Z #1-181 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



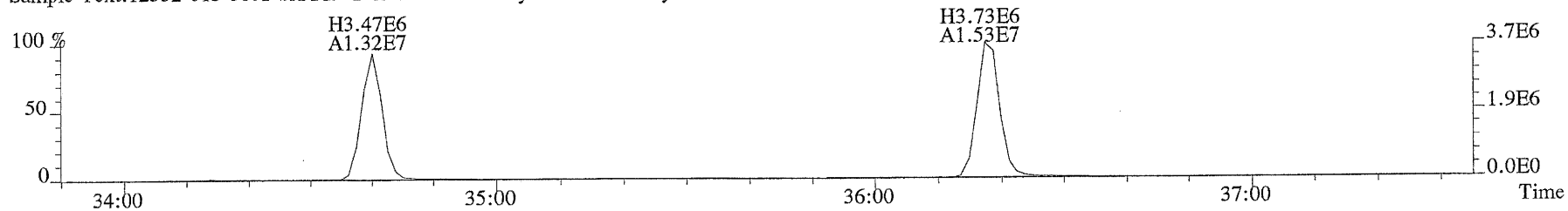
File:25JUL19Z #1-181 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



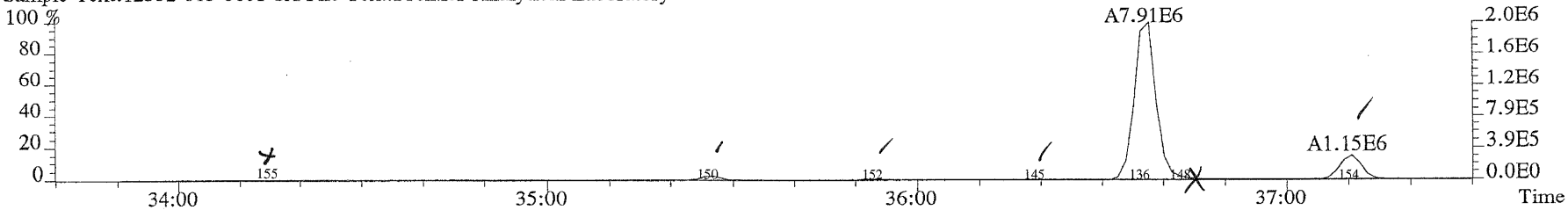
File:25JUL19Z #1-181 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



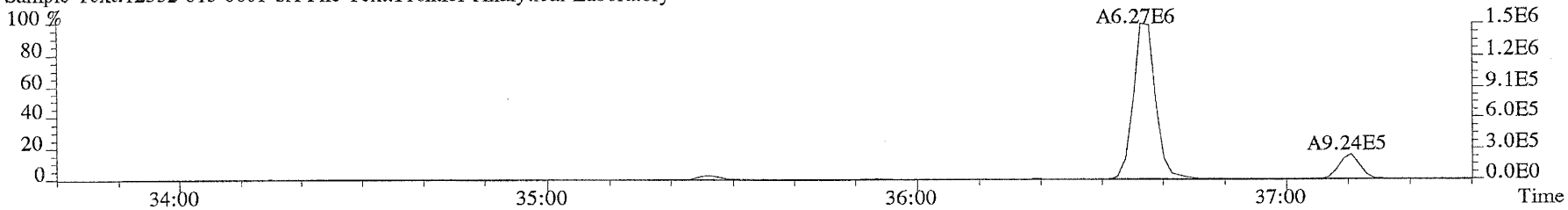
File:25JUL19Z #1-181 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



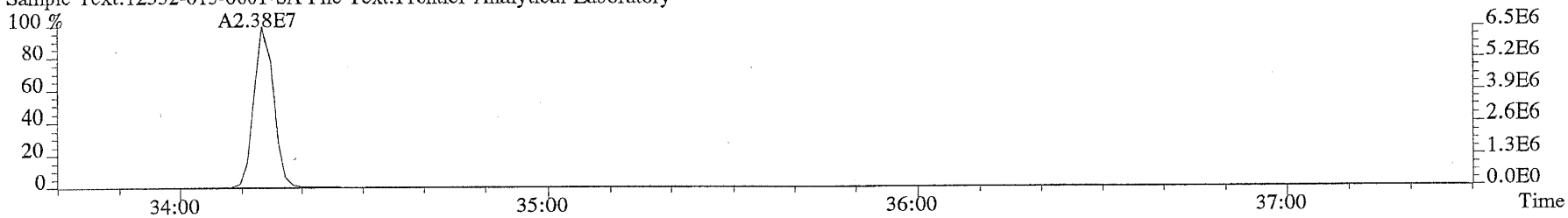
File:25JUL19Z #1-181 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



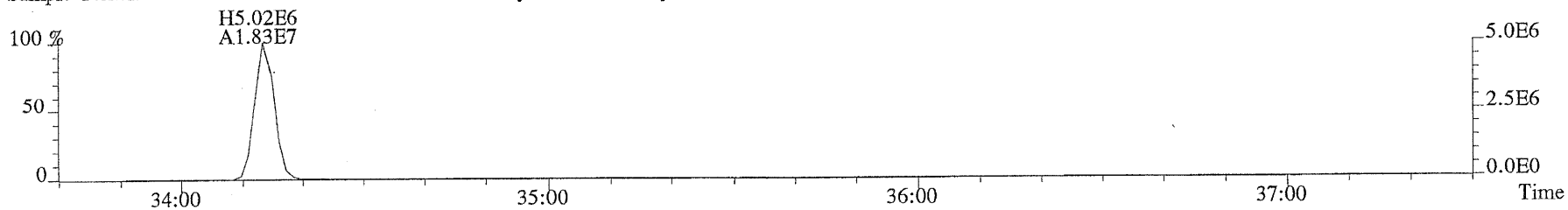
File:25JUL19Z #1-181 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



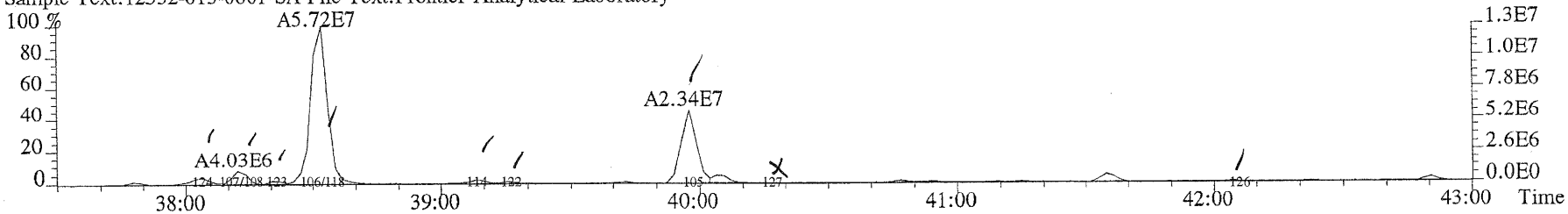
File:25JUL19Z #1-181 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



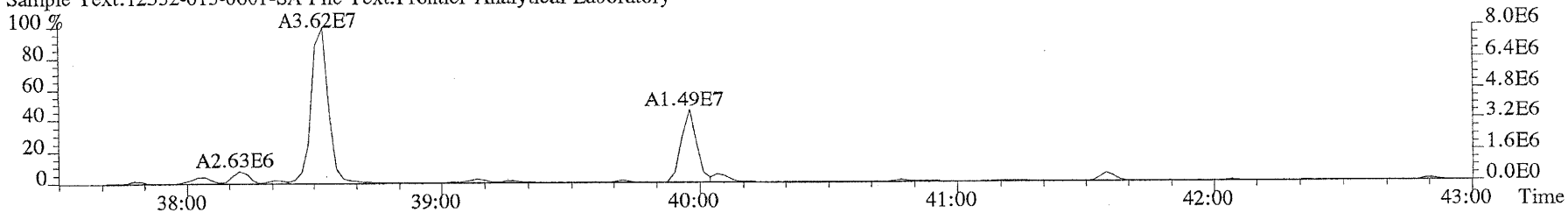
File:25JUL19Z #1-181 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



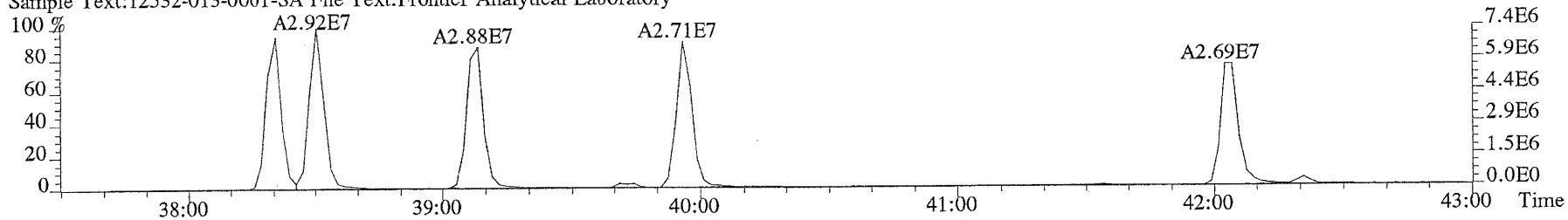
File:25JUL19Z #1-405 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



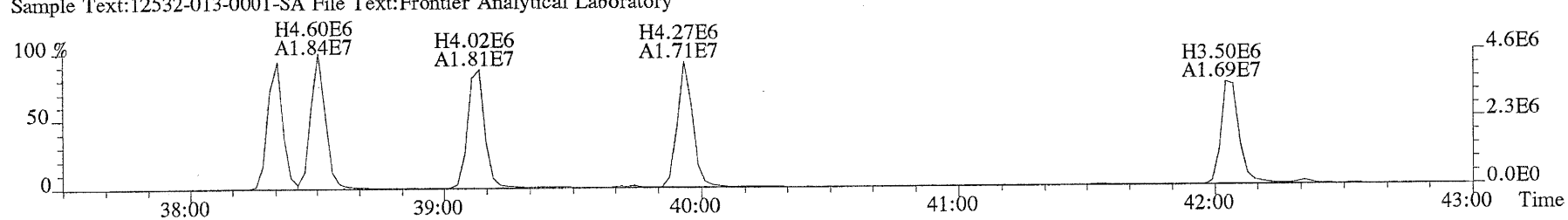
File:25JUL19Z #1-405 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



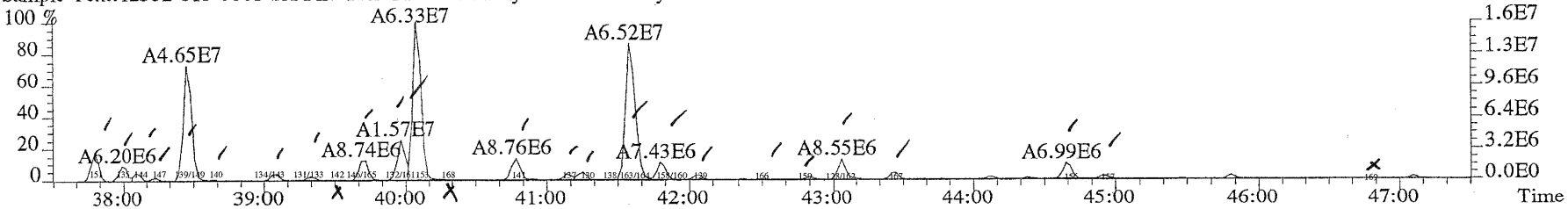
File:25JUL19Z #1-405 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



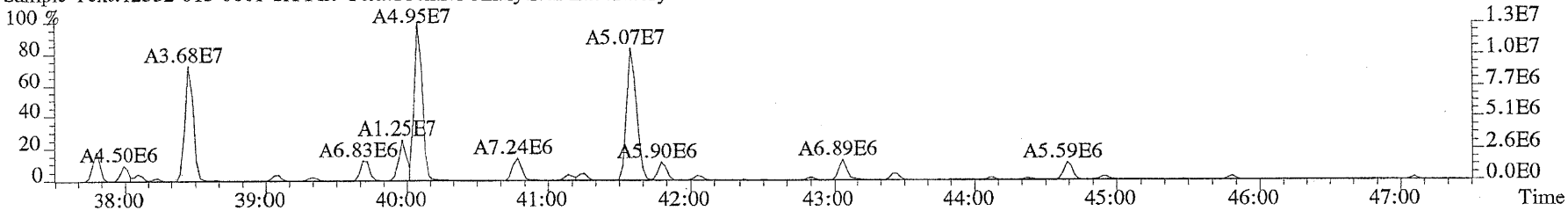
File:25JUL19Z #1-405 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



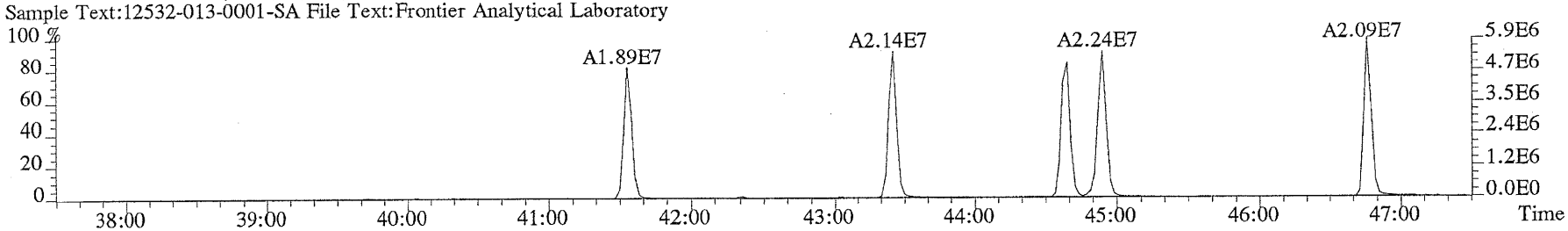
File:25JUL19Z #1-405 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



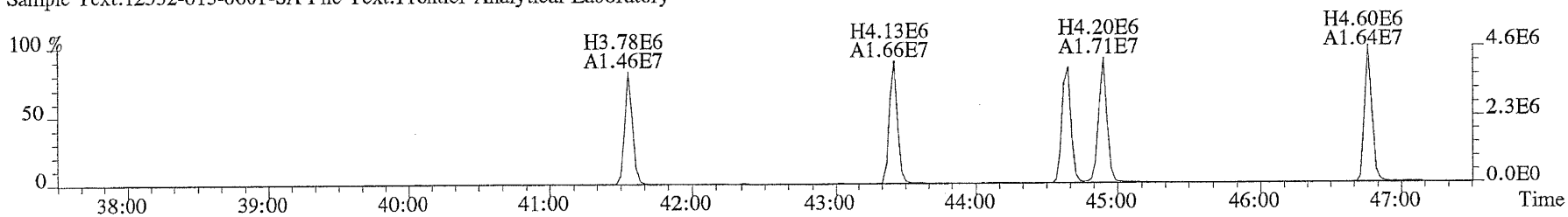
File:25JUL19Z #1-405 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



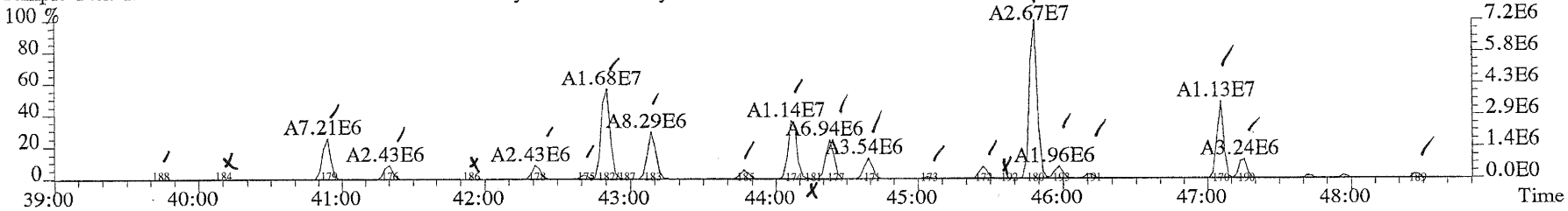
File:25JUL19Z #1-405 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



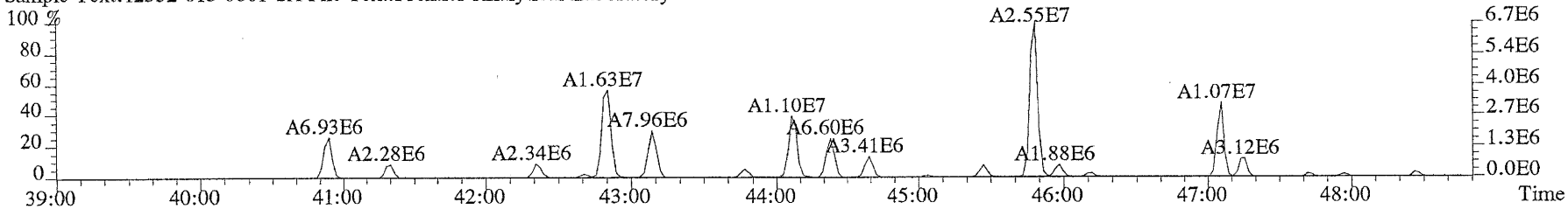
File:25JUL19Z #1-405 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



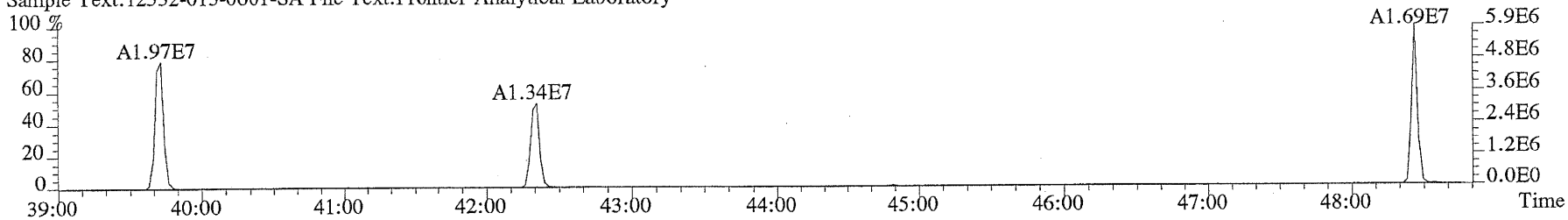
File:25JUL19Z #1-405 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



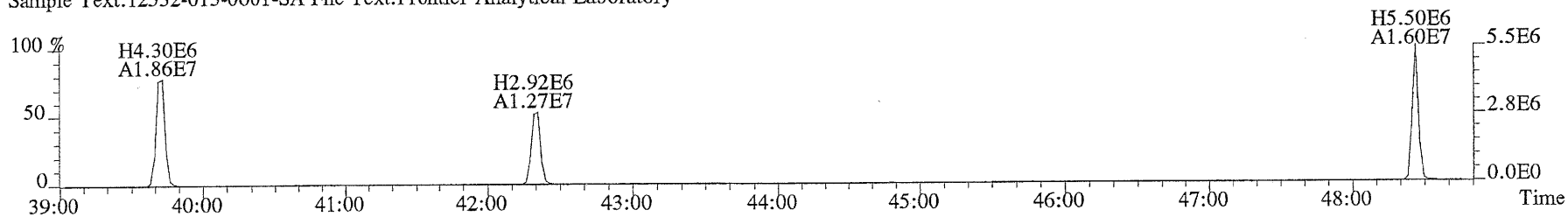
File:25JUL19Z #1-405 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



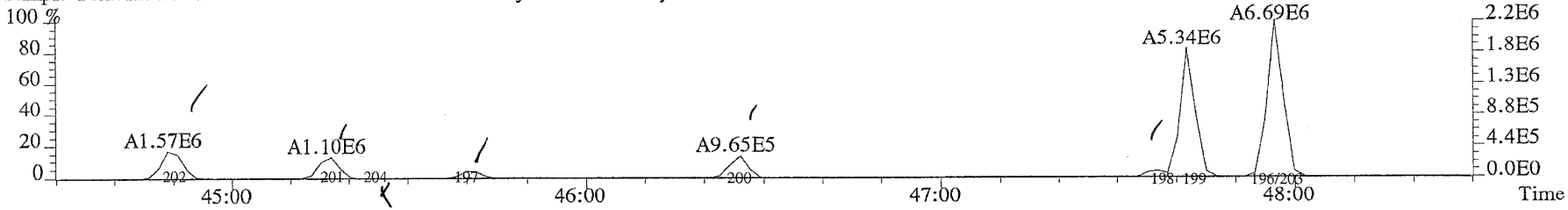
File:25JUL19Z #1-405 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



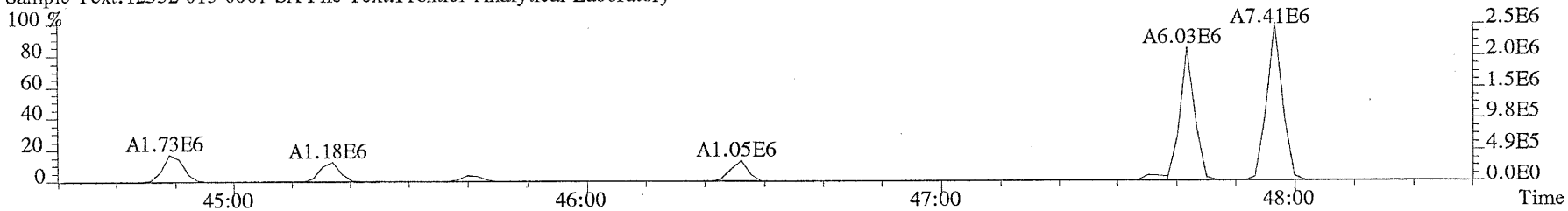
File:25JUL19Z #1-405 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



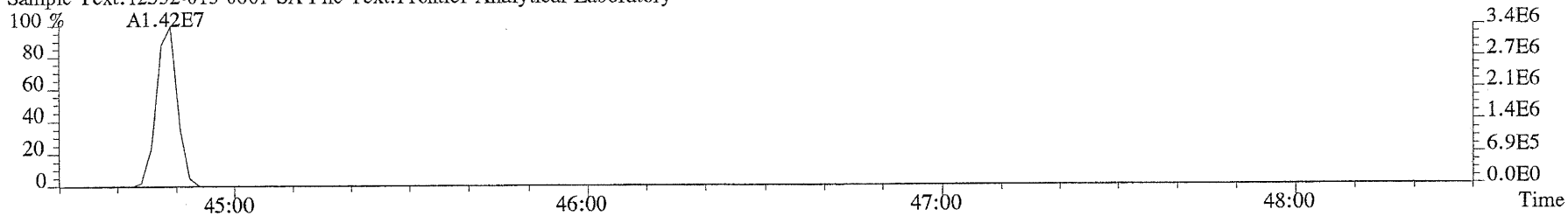
File:25JUL19Z #1-405 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



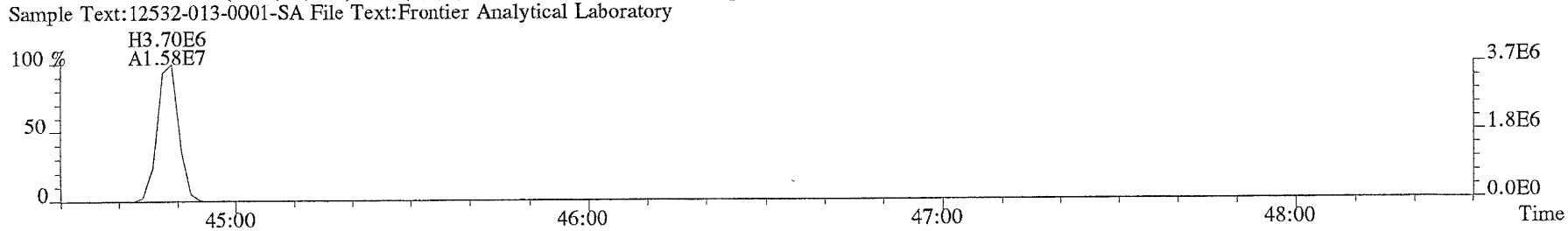
File:25JUL19Z #1-405 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



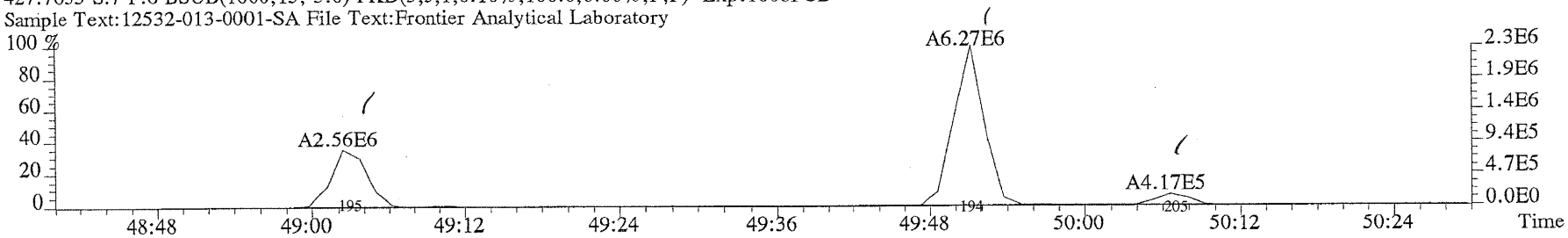
File:25JUL19Z #1-405 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 17:01:52 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:12532-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-314 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
427.7635 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:12532-013-0001-SA File Text:Frontier Analytical Laboratory



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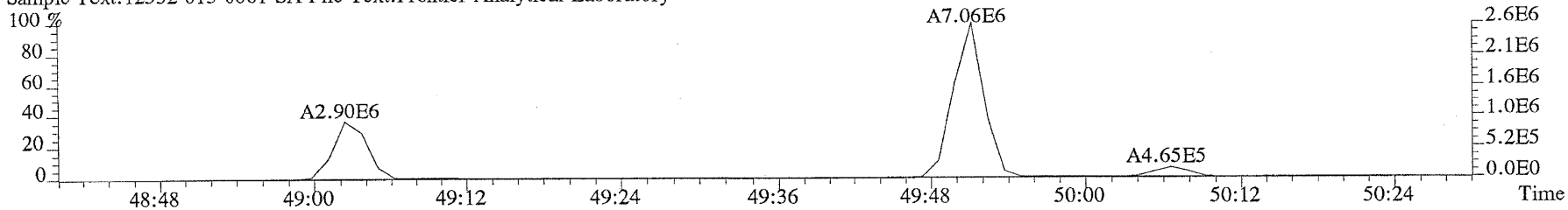
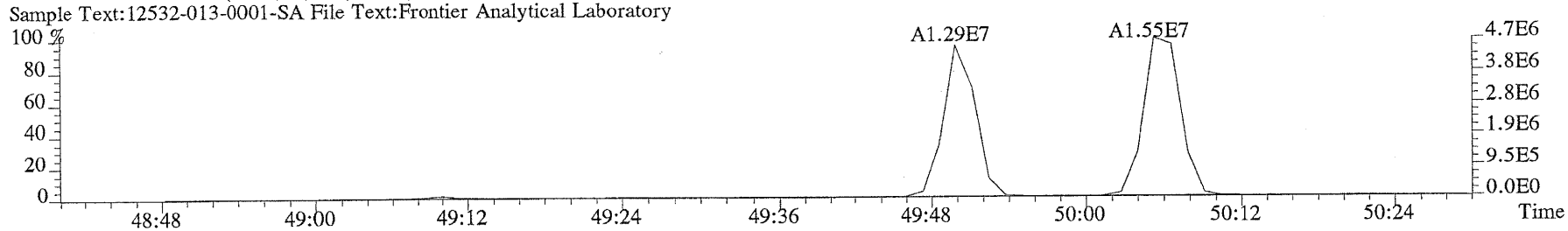
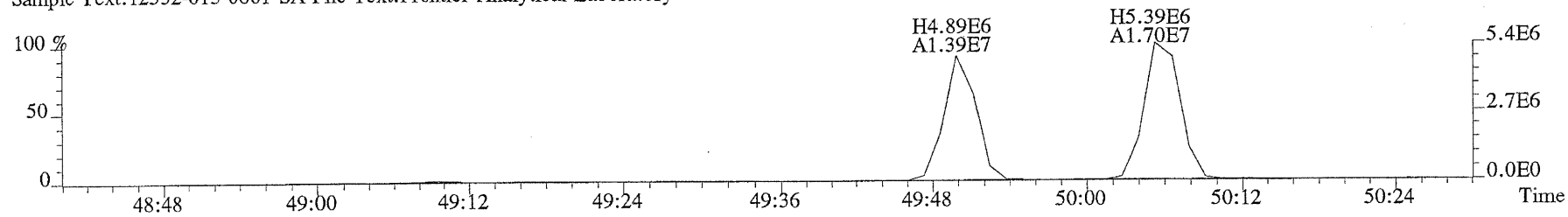
429.7606 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



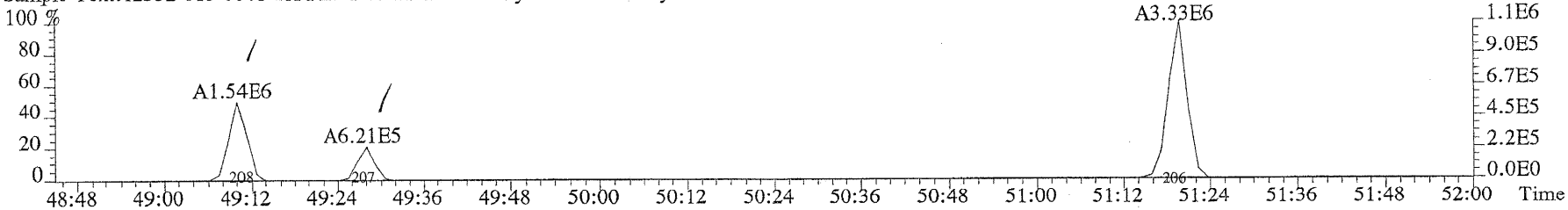
File:25JUL19Z #1-314 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-314 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
441.8008 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:12532-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-314 Acq:25-JUL-2019 17:01:52 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:12532-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-314 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
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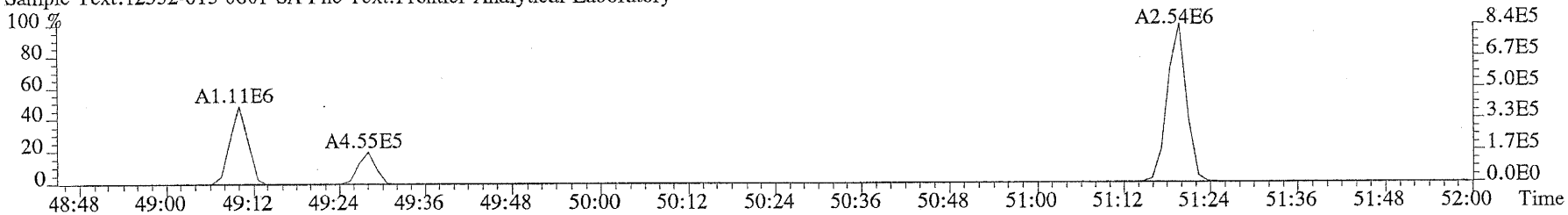
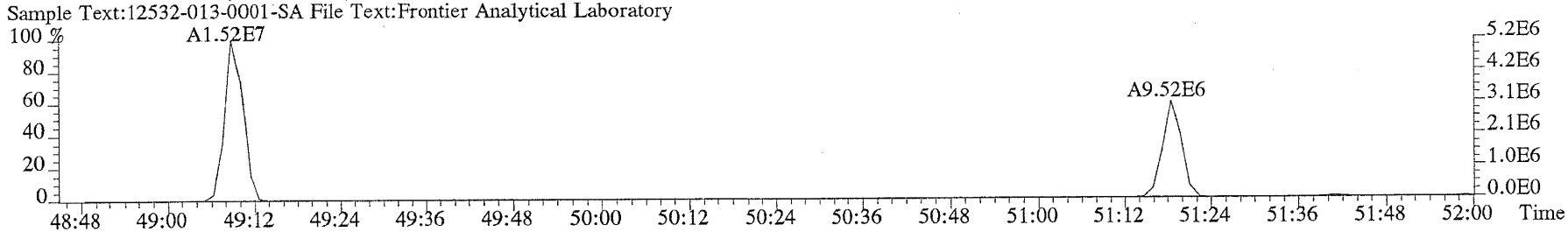
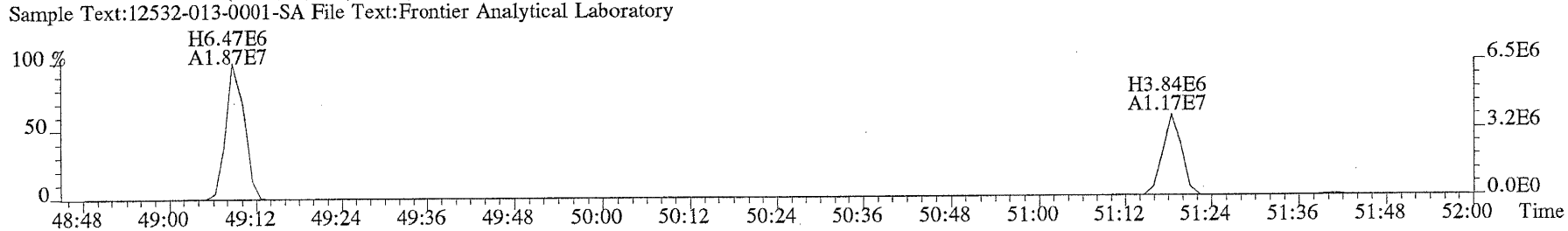
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



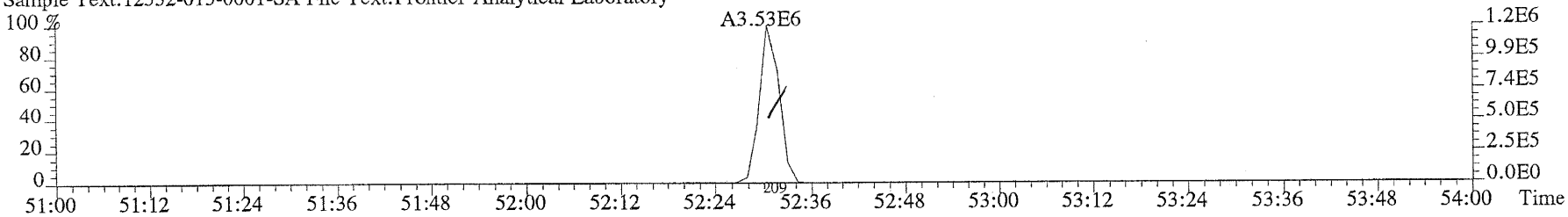
File:25JUL19Z #1-314 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



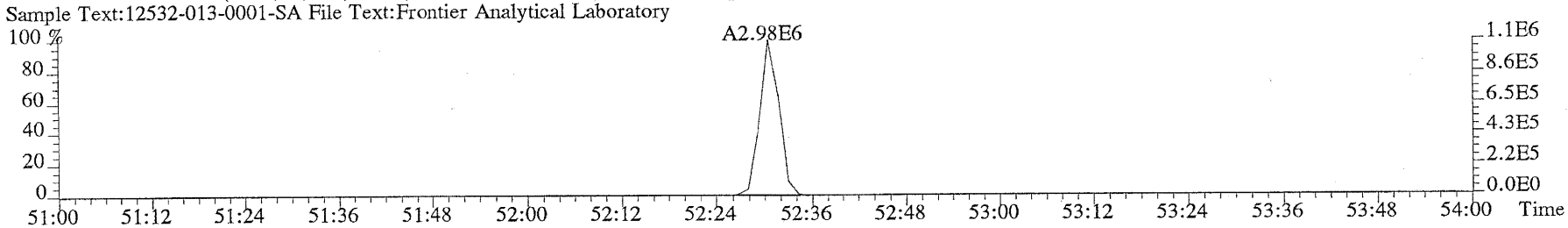
File:25JUL19Z #1-314 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



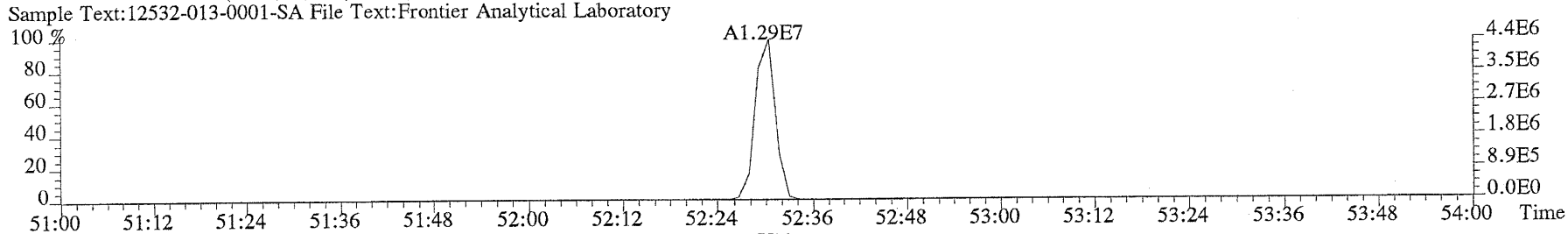
File:25JUL19Z #1-314 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



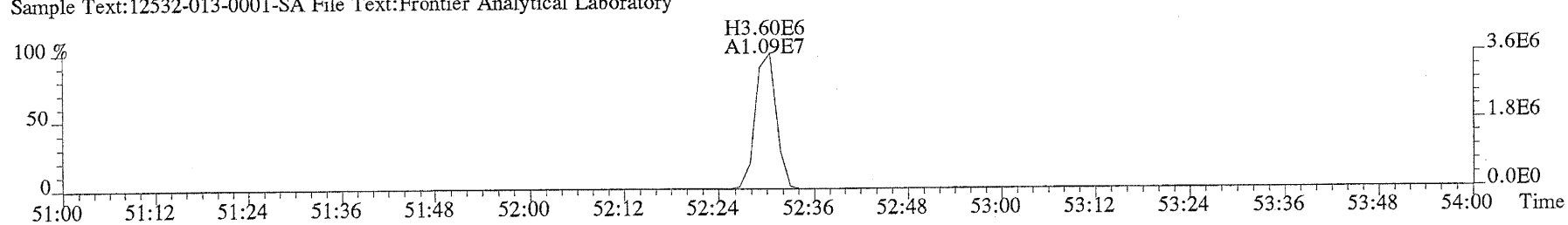
File:25JUL19Z #1-314 Acq:25-JUL-2019 17:01:52 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-314 Acq:25-JUL-2019 17:01:52 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:12532-013-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-314 Acq:25-JUL-2019 17:01:52 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
Sample Text:12532-013-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12532-014-0001-SA Filename: 25JUL19Z Sam:8 Acquired: 25-JUL-19 18:00:33 ICal: DAILY209FAL4-7-25-19
Client ID: LDW-Y2-SC-ENR-CD-CORE ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 5.040

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.28e+06	3.20 y	14:33	1.17	22.3		-	-	*	
13C-PCB-1	9.79e+07	3.21 y	14:31	0.90	1700					85.6
PCB-2	3.59e+05	3.06 y	16:46	1.20	6.12		-	-	*	
PCB-3	1.22e+06	3.18 y	16:59	1.20	21.0		-	-	*	
13C-PCB-3	9.62e+07	3.25 y	16:58	0.87	1720					86.9
PCB-4	9.48e+06	1.47 y	18:13	1.10	234		-	-	*	
PCB-10	2.13e+06	1.61 y	18:17	1.40	30.2		-	-	*	
13C-PCB-4	7.32e+07	1.60 y	18:12	0.66	1740					87.9
PCB-9	3.24e+06	1.38 y	19:55	1.32	48.7		-	-	*	
PCB-7	3.34e+06	1.46 y	19:56	1.48	44.7		-	-	*	
PCB-6	1.45e+07	1.43 y	20:33	1.39	206		-	-	*	
PCB-8	7.44e+07	1.39 y	20:55	1.34	1100		-	-	*	
PCB-5	*	* n	NotFnd	1.36	*		816	3700	0.664	
PCB-14	*	* n	NotFnd	1.30	*		816	3700	0.697	
PCB-11	2.08e+06	1.44 y	23:05	1.23	33.6		-	-	*	
PCB-13	2.32e+06	1.58 y	23:27	1.18	38.8		-	-	*	
PCB-12	2.32e+06	1.58 y	23:27	1.23	37.4		-	-	*	
PCB-15	3.44e+07	1.46 y	23:46	1.10	487		-	-	*	
13C-PCB-15	1.27e+08	1.61 y	23:44	0.90	2210					112
PCB-19	4.21e+06	1.08 y	22:07	1.19	129		-	-	*	
PCB-30	*	* n	NotFnd	1.80	*		1550	1420	0.603	
PCB-18	4.69e+07	1.07 y	23:40	1.17	1450		-	-	*	
PCB-17	2.25e+07	1.08 y	23:49	1.29	633		-	-	*	
PCB-27	2.65e+06	1.05 y	24:20	1.65	58.2		-	-	*	
PCB-24	3.72e+06	1.05 y	24:21	1.76	76.8		-	-	*	
PCB-16	1.34e+07	1.02 y	24:49	1.43	341		-	-	*	
PCB-32	2.45e+07	1.09 y	24:51	1.46	609		-	-	*	
13C-PCB-19	5.46e+07	1.07 y	22:06	0.49	1750					88.0
13C-PCB-9	1.27e+08	1.60 y	19:53	-	15.4					
PCB-34	5.74e+05	1.13 y	25:37	1.20	9.37		-	-	*	
PCB-23	2.02e+05	1.17 y	25:42	1.47	2.69	J	-	-	*	
PCB-29	9.18e+05	1.04 y	25:56	1.34	13.4		-	-	*	
PCB-26	2.15e+07	1.04 y	26:08	1.27	331		-	-	*	
PCB-25	1.23e+07	1.01 y	26:17	1.26	192		-	-	*	
PCB-31	9.94e+07	1.06 y	26:37	1.28	1520		-	-	*	
PCB-28	1.38e+08	1.05 y	26:44	1.51	1790		-	-	*	
PCB-20	7.55e+07	1.05 y	27:19	1.26	1170		-	-	*	Co-elute PCB 21/33
PCB-21	7.55e+07	1.05 y	27:19	1.26	1170		-	-	*	Co-elute PCB 20/33
PCB-33	7.55e+07	1.05 y	27:19	1.26	1170		-	-	*	Co-elute PCB 20/21
PCB-22	4.23e+07	1.06 y	27:43	1.40	591		-	-	*	
PCB-36	*	* n	NotFnd	1.25	*		1550	1780	0.661	
PCB-39	*	* n	NotFnd	1.24	*		1550	1780	0.662	
PCB-38	6.81e+05	1.05 y	29:30	1.29	10.3		-	-	*	
PCB-35	2.07e+06	1.14 y	30:03	1.13	35.9		-	-	*	
PCB-37	3.49e+07	1.06 y	30:30	1.19	574		-	-	*	
13C-PCB-37	1.01e+08	1.02 y	30:29	1.40	2220					112

PCB-54	2.02e+05	0.82	y	25:39	1.22	4.46		-	-	*	
PCB-50	1.88e+05	0.82	y	26:45	0.89	5.70		-	-	*	
PCB-53	7.59e+06	0.79	y	27:21	0.86	237		-	-	*	
PCB-51	2.72e+06	0.83	y	27:40	0.92	79.5		-	-	*	
PCB-45	6.99e+06	0.82	y	28:06	0.74	254		-	-	*	
PCB-46	2.74e+06	0.77	y	28:34	0.70	105		-	-	*	
PCB-52	6.36e+07	0.80	y	29:00	0.90	1890		-	-	*	Co-elute PCB 69
PCB-69	6.36e+07	0.80	y	29:00	0.90	1890		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.12	*		1280	1100	0.548	
PCB-43	4.08e+07	0.80	y	29:18	0.78	1410		-	-	*	Co-elute PCB 49
PCB-49	4.08e+07	0.80	y	29:18	0.78	1410		-	-	*	Co-elute PCB 43
PCB-47	1.49e+07	0.79	y	29:29	0.85	474		-	-	*	
PCB-48	1.27e+07	0.81	y	29:37	1.01	338		-	-	*	Co-elute PCB 75
PCB-75	1.27e+07	0.81	y	29:37	1.01	338		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*		1280	1100	0.603	
PCB-62	*	*	n	NotFnd	1.07	*		1280	1100	0.572	
PCB-44	3.64e+07	0.80	y	30:18	0.67	1470		-	-	*	
PCB-42	1.83e+07	0.78	y	30:34	0.89	554		-	-	*	Co-elute PCB 59
PCB-59	1.83e+07	0.78	y	30:34	0.89	554		-	-	*	Co-elute PCB 42
PCB-72	4.65e+07	0.81	y	31:10	1.00	1250		-	-	*	Co-elute PCB 41/71/64
PCB-41	4.65e+07	0.81	y	31:10	1.00	1250		-	-	*	Co-elute PCB 72/71/64
PCB-71	4.65e+07	0.81	y	31:10	1.00	1250		-	-	*	Co-elute PCB 72/41/64
PCB-64	4.65e+07	0.81	y	31:10	1.00	1250		-	-	*	Co-elute PCB 72/41/71
PCB-68	5.48e+05	0.72	y	31:23	1.14	12.9		-	-	*	
PCB-40	5.80e+06	0.81	y	31:33	0.61	256		-	-	*	
PCB-57	5.88e+05	0.77	y	31:50	1.07	14.8		-	-	*	
PCB-67	3.10e+06	0.81	y	32:06	0.99	84.0		-	-	*	
PCB-58	2.68e+05	0.86	y	32:12	1.11	6.49		-	-	*	
PCB-63	3.17e+06	0.76	y	32:21	1.05	81.4		-	-	*	
PCB-74	3.82e+07	0.78	y	32:38	1.02	1010		-	-	*	
PCB-61	8.65e+07	0.79	y	32:49	0.97	2410		-	-	*	Co-elute PCB 70
PCB-70	8.65e+07	0.79	y	32:49	0.97	2410		-	-	*	Co-elute PCB 61
PCB-76	8.08e+07	0.78	y	33:02	1.05	2070		-	-	*	Co-elute PCB 66
PCB-66	8.08e+07	0.78	y	33:02	1.05	2070		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.24	*		1280	1100	0.494	
PCB-55	2.28e+06	0.75	y	33:32	1.06	57.9		-	-	*	
13C-PCB-54	7.37e+07	0.81	y	25:38	1.36	1660					83.7
PCB-104	*	*	n	NotFnd	1.10	*		596	776	0.483	
PCB-96	5.22e+05	1.59	y	31:27	1.04	16.7		-	-	*	
PCB-103	1.08e+06	1.53	y	31:50	0.84	42.5		-	-	*	
PCB-100	5.83e+05	1.53	y	32:10	0.85	22.8		-	-	*	
PCB-94	2.99e+05	1.70	y	32:35	0.69	14.5		-	-	*	
PCB-98	*	*	n	NotFnd	0.69	*		596	776	0.769	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.69	*		596	776	0.769	Co-elute PCB 98
PCB-95	5.05e+07	1.55	y	33:05	0.77	2180		-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*		596	776	0.682	
PCB-88	9.84e+06	1.54	y	33:28	0.83	393		-	-	*	Co-elute PCB 91
PCB-91	9.84e+06	1.54	y	33:28	0.83	393		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.89	*		596	776	0.596	
13C-PCB-104	5.97e+07	1.59	y	30:07	1.06	1720					86.7
13C-PCB-28	1.24e+08	1.06	y	26:42	1.72	2210					112
13C-PCB-52	6.48e+07	0.79	y	28:59	-	17.1					

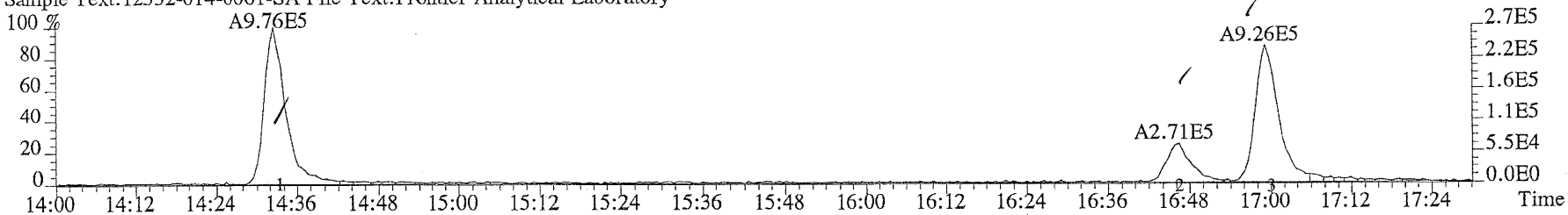
PCB-56	5.89e+07	0.80	y	33:59	1.17	1160			-	-	*	Co-elute PCB 60
PCB-60	5.89e+07	0.80	y	33:59	1.17	1160			-	-	*	Co-elute PCB 56
PCB-79	2.00e+06	0.79	y	35:00	1.22	38.2			-	-	*	
PCB-78	5.14e+05	0.82	y	35:36	1.16	10.3			-	-	*	
PCB-81	2.93e+06	0.79	y	36:11	1.25	56.4			-	-	*	
13C-PCB-81	8.28e+07	0.79	y	36:08	1.37	2100						106
PCB-77	1.00e+07	0.86	y	36:44	1.06	213			-	-	*	
13C-PCB-77	8.82e+07	0.78	y	36:43	1.44	2120						107
PCB-155	*	*	n	NotFnd	1.04	*		1100	960	0.572		
PCB-150	4.05e+05	1.32	y	35:25	0.95	12.3			-	-	*	
PCB-152	1.18e+05	1.27	y	35:53	0.90	3.77	J		-	-	*	
PCB-145	4.48e+04	1.12	y	36:19	0.93	1.40	J		-	-	*	
PCB-136	1.59e+07	1.26	y	36:36	0.93	491			-	-	*	
PCB-148	*	*	n	NotFnd	0.62	*		1100	960	0.952		
PCB-154	2.16e+06	1.28	y	37:10	0.75	82.9			-	-	*	
13C-PCB-155	6.87e+07	1.29	y	34:13	1.44	1650						83.3
13C-PCB-111	6.75e+07	1.60	y	36:17	1.22	1910						96.4
13C-PCB-101	5.73e+07	1.61	y	34:39	-	18.7						
PCB-84	2.67e+07	1.61	y	34:20	0.83	820			-	-	*	Co-elute PCB 92
PCB-92	2.67e+07	1.61	y	34:20	0.83	820			-	-	*	Co-elute PCB 84
PCB-89	1.07e+06	1.62	y	34:30	0.81	33.6			-	-	*	
PCB-90	8.18e+07	1.60	y	34:41	0.89	2350			-	-	*	Co-elute PCB 101
PCB-101	8.18e+07	1.60	y	34:41	0.89	2350			-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.02	*		1400	1160	0.686		
PCB-99	3.80e+07	1.62	y	34:59	0.98	993			-	-	*	
PCB-119	2.75e+06	1.56	y	35:25	1.13	61.9			-	-	*	
PCB-83	3.42e+06	1.54	y	35:36	0.90	97.1			-	-	*	Co-elute PCB 112
PCB-112	3.42e+06	1.54	y	35:36	0.90	97.1			-	-	*	Co-elute PCB 83
PCB-109	7.25e+04	1.76	y	35:44	1.08	1.71	J		-	-	*	
PCB-97	2.01e+07	1.57	y	35:55	0.73	706			-	-	*	
PCB-86	*	*	n	NotFnd	0.79	*		1400	1160	0.884		
PCB-125	3.09e+07	1.55	y	36:11	0.97	812			-	-	*	Co-elute PCB 87/117
PCB-87	3.09e+07	1.55	y	36:11	0.97	812			-	-	*	Co-elute PCB 125/117
PCB-117	3.09e+07	1.55	y	36:11	0.97	812			-	-	*	Co-elute PCB 125/87
PCB-111	1.99e+06	1.61	y	36:20	1.13	44.8			-	-	*	Co-elute PCB 115
PCB-115	1.99e+06	1.61	y	36:20	1.13	44.8			-	-	*	Co-elute PCB 111
PCB-85	1.26e+07	1.57	y	36:26	0.97	331			-	-	*	Co-elute PCB 116
PCB-116	1.26e+07	1.57	y	36:26	0.97	331			-	-	*	Co-elute PCB 85
PCB-120	4.97e+05	1.44	y	36:36	1.18	10.8			-	-	*	
PCB-110	1.01e+08	1.58	y	36:48	1.10	2330			-	-	*	
PCB-82	6.64e+06	1.49	y	37:24	0.62	273			-	-	*	
PCB-124	4.89e+06	1.58	y	38:02	1.10	113			-	-	*	
PCB-108	7.38e+06	1.56	y	38:12	1.20	158			-	-	*	Co-elute PCB 107
PCB-107	7.38e+06	1.56	y	38:12	1.20	158			-	-	*	Co-elute PCB 108
PCB-123	2.00e+06	1.49	y	38:20	1.01	52.0			-	-	*	
13C-PCB-123	7.55e+07	1.58	y	38:20	1.31	2030						102
PCB-118	1.05e+08	1.59	y	38:32	1.09	2390			-	-	*	Co-elute PCB 106
PCB-106	1.05e+08	1.59	y	38:32	1.09	2390			-	-	*	Co-elute PCB 118
13C-PCB-118	8.04e+07	1.60	y	38:30	1.46	1940						98.0
PCB-114	2.70e+06	1.60	y	39:08	1.14	60.1			-	-	*	
13C-PCB-114	7.84e+07	1.59	y	39:06	1.34	2070						104
PCB-122	1.43e+06	1.38	y	39:16	1.16	31.5			-	-	*	
PCB-105	4.34e+07	1.60	y	39:57	1.19	939			-	-	*	
13C-PCB-105	7.68e+07	1.61	y	39:56	1.32	2060						104

PCB-127	*	*	n	NotFnd	1.06	*		1240	1060	0.596	
PCB-126	6.82e+05	1.65	y	42:04	1.13	16.1		-	-	*	
13C-PCB-126	7.41e+07	1.58	y	42:03	1.20	2190					110
PCB-151	2.26e+07	1.29	y	37:47	0.98	711		-	-	*	
PCB-135	1.11e+07	1.29	y	37:59	0.92	369		-	-	*	
PCB-144	5.83e+06	1.30	y	38:06	1.05	170		-	-	*	
PCB-147	1.92e+06	1.34	y	38:14	1.09	54.3		-	-	*	
PCB-139	8.93e+07	1.28	y	38:27	1.08	2560		-	-	*	Co-elute PCB 149
PCB-149	8.93e+07	1.28	y	38:27	1.08	2560		-	-	*	Co-elute PCB 139
PCB-140	9.00e+05	1.40	y	38:38	1.07	25.9		-	-	*	
PCB-143	4.85e+06	1.29	y	39:05	0.86	175		-	-	*	Co-elute PCB 134
PCB-134	4.85e+06	1.29	y	39:05	0.86	175		-	-	*	Co-elute PCB 143
PCB-131	2.82e+06	1.31	y	39:20	0.85	102		-	-	*	Co-elute PCB 133
PCB-133	2.82e+06	1.31	y	39:20	0.85	102		-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.86	*		987	884	0.700	
PCB-165	1.69e+07	1.24	y	39:41	1.17	446		-	-	*	Co-elute PCB 146
PCB-146	1.69e+07	1.24	y	39:41	1.17	446		-	-	*	Co-elute PCB 165
PCB-161	3.10e+07	1.25	y	39:57	1.07	893		-	-	*	Co-elute PCB 132
PCB-132	3.10e+07	1.25	y	39:57	1.07	893		-	-	*	Co-elute PCB 161
PCB-153	1.17e+08	1.28	y	40:04	1.16	3110		-	-	*	
PCB-168	*	*	n	NotFnd	1.27	*		987	884	0.475	
PCB-141	1.74e+07	1.28	y	40:47	0.93	578		-	-	*	
PCB-137	4.32e+06	1.23	y	41:08	0.87	153		-	-	*	
PCB-130	5.50e+06	1.26	y	41:15	0.85	199		-	-	*	
PCB-138	1.29e+08	1.27	y	41:35	1.13	3520		-	-	*	Co-elute PCB 163/164
PCB-163	1.29e+08	1.27	y	41:35	1.13	3520		-	-	*	Co-elute PCB 138/164
PCB-164	1.29e+08	1.27	y	41:35	1.13	3520		-	-	*	Co-elute PCB 138/163
PCB-158	1.44e+07	1.25	y	41:48	1.27	350		-	-	*	Co-elute PCB 160
PCB-160	1.44e+07	1.25	y	41:48	1.27	350		-	-	*	Co-elute PCB 158
PCB-129	3.51e+06	1.25	y	42:03	0.79	137		-	-	*	
PCB-166	4.52e+05	1.12	y	42:29	1.20	11.6		-	-	*	
PCB-159	2.07e+06	1.31	y	42:50	1.31	48.8		-	-	*	
PCB-128	1.70e+07	1.25	y	43:03	1.03	508		-	-	*	Co-elute PCB 162
PCB-162	1.70e+07	1.25	y	43:03	1.03	508		-	-	*	Co-elute PCB 128
PCB-167	5.47e+06	1.29	y	43:27	1.13	148		-	-	*	
13C-PCB-167	6.50e+07	1.27	y	43:25	1.15	2000					101
PCB-156	1.34e+07	1.27	y	44:39	1.23	337		-	-	*	
13C-PCB-156	6.44e+07	1.30	y	44:39	1.11	2040					103
PCB-157	2.96e+06	1.37	y	44:55	1.15	76.5		-	-	*	
13C-PCB-157	6.65e+07	1.31	y	44:54	1.14	2060					104
PCB-169	*	*	n	NotFnd	1.11	*		987	884	0.484	
13C-PCB-169	6.19e+07	1.26	y	46:46	1.08	2030					102

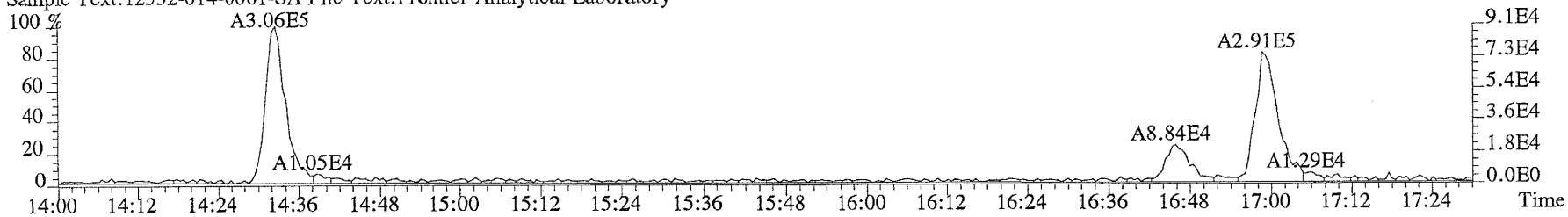
PCB-188	1.02e+05	1.10	y	39:43	1.06	2.98	J	-	-	*	
13C-PCB-188	6.44e+07	1.07	y	39:41	1.26	1800					90.8
PCB-184	5.05e+04	1.11	y	40:09	1.24	1.39	J	-	-	*	
PCB-179	1.58e+07	1.03	y	40:53	1.13	476		-	-	*	
PCB-176	5.22e+06	1.06	y	41:20	1.08	165		-	-	*	
PCB-186	*	*	n	NotFnd	1.13	*		950	952	0.522	
PCB-178	5.40e+06	1.02	y	42:21	0.76	243		-	-	*	
PCB-175	1.20e+06	1.03	y	42:40	0.77	53.4		-	-	*	
PCB-187	3.75e+07	1.05	y	42:50	0.86	1490		-	-	*	Co-elute PCB 182
PCB-182	3.75e+07	1.05	y	42:50	0.86	1490		-	-	*	Co-elute PCB 187
PCB-183	1.82e+07	1.05	y	43:08	0.83	750		-	-	*	
PCB-185	3.05e+06	1.04	y	43:46	0.74	140		-	-	*	
PCB-174	2.54e+07	1.04	y	44:06	0.79	1090		-	-	*	
PCB-181	*	*	n	NotFnd	0.70	*		950	952	0.835	
PCB-177	1.50e+07	1.04	y	44:22	0.68	750		-	-	*	
PCB-171	7.68e+06	1.05	y	44:39	0.74	354		-	-	*	
PCB-173	5.25e+05	1.07	y	45:04	0.66	27.2		-	-	*	
PCB-172	4.07e+06	1.04	y	45:27	0.69	201		-	-	*	
PCB-192	*	*	n	NotFnd	0.94	*		950	952	0.626	
PCB-180	5.70e+07	1.03	y	45:48	0.69	2810		-	-	*	
PCB-193	3.98e+06	1.04	y	45:58	0.98	138		-	-	*	
PCB-191	1.35e+06	1.01	y	46:11	0.94	49.0		-	-	*	
PCB-170	2.27e+07	1.04	y	47:05	0.66	1180		-	-	*	
PCB-190	6.80e+06	1.06	y	47:14	0.93	249		-	-	*	
PCB-189	1.20e+06	1.07	y	48:26	1.02	45.0		-	-	*	
13C-PCB-189	5.18e+07	1.07	y	48:26	1.00	1820					92.0
PCB-202	3.66e+06	0.89	y	44:49	1.04	138		-	-	*	
PCB-201	2.59e+06	0.93	y	45:17	1.12	90.7		-	-	*	
PCB-204	*	*	n	NotFnd	1.09	*		956	1160	0.823	
PCB-197	7.78e+05	0.90	y	45:40	1.15	26.4		-	-	*	
PCB-200	2.28e+06	0.88	y	46:26	1.10	81.2		-	-	*	
PCB-198	7.43e+05	0.84	y	47:37	0.73	39.8		-	-	*	
PCB-199	1.21e+07	0.89	y	47:42	0.76	620		-	-	*	
PCB-203	1.46e+07	0.91	y	47:56	0.85	675		-	-	*	Co-elute PCB 196
PCB-196	1.46e+07	0.91	y	47:56	0.85	675		-	-	*	Co-elute PCB 203
13C-PCB-202	5.07e+07	0.92	y	44:49	0.97	1850					93.2
13C-PCB-178	4.53e+07	1.06	y	42:19	0.83	1930					97.2
13C-PCB-138	5.61e+07	1.29	y	41:33	-	19.8					
PCB-195	5.80e+06	0.88	y	49:04	0.77	281		-	-	*	
PCB-194	1.33e+07	0.91	y	49:51	0.84	590		-	-	*	
PCB-205	8.99e+05	0.94	y	50:06	1.04	32.0		-	-	*	
13C-PCB-205	5.34e+07	0.91	y	50:05	1.31	2010					101
PCB-208	2.25e+06	1.35	y	49:10	1.00	87.0		-	-	*	
13C-PCB-208	5.11e+07	0.82	y	49:09	1.32	1900					95.6
PCB-207	9.71e+05	1.35	y	49:28	1.15	39.8		-	-	*	
PCB-206	5.14e+06	1.32	y	51:18	1.04	294		-	-	*	
13C-PCB-206	3.34e+07	0.79	y	51:18	0.97	1680					84.9
PCB-209	2.51e+06	1.13	y	52:30	1.11	118		-	-	*	
13C-PCB-209	3.79e+07	1.19	y	52:29	1.23	1510					76.1
13C-PCB-194	4.04e+07	0.91	y	49:50	-	16.1					

Analyst: [signature] Date: 7/26/19

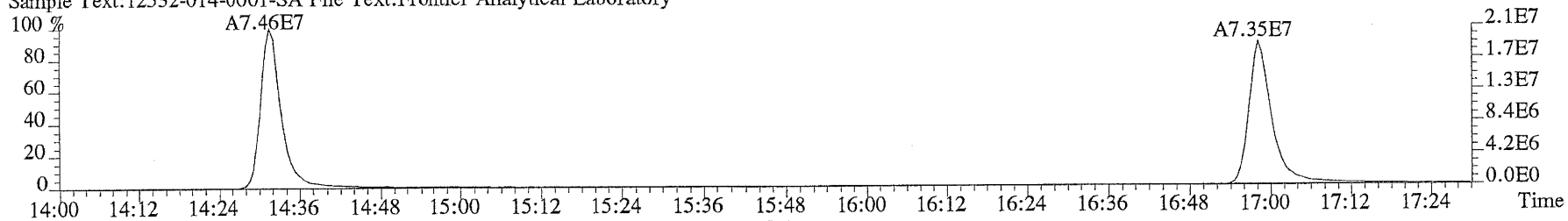
File:25JUL19Z #1-784 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



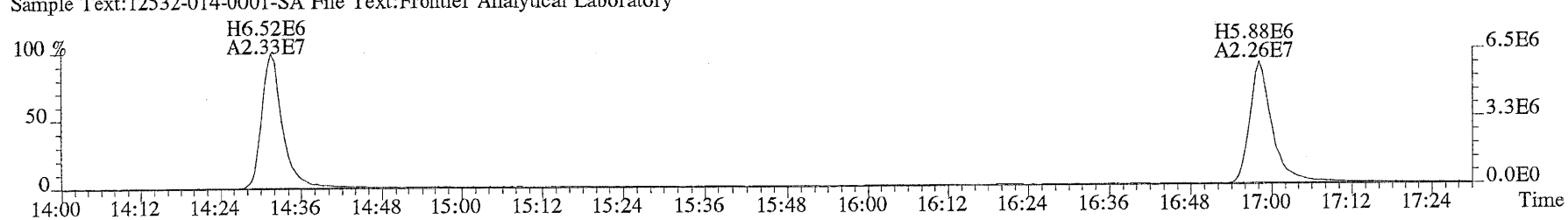
File:25JUL19Z #1-784 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



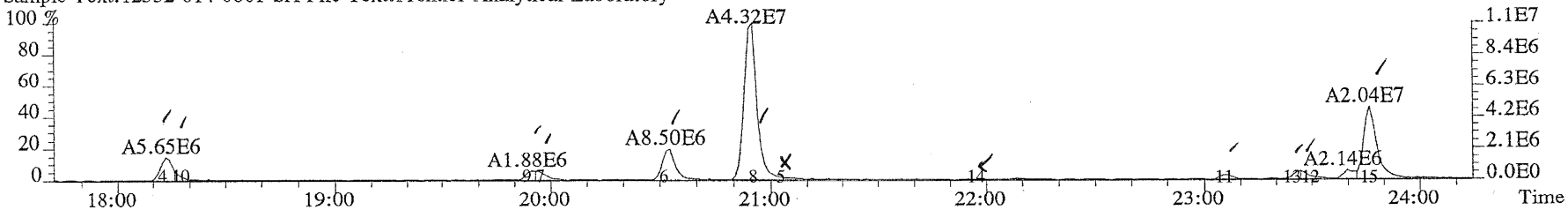
File:25JUL19Z #1-784 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



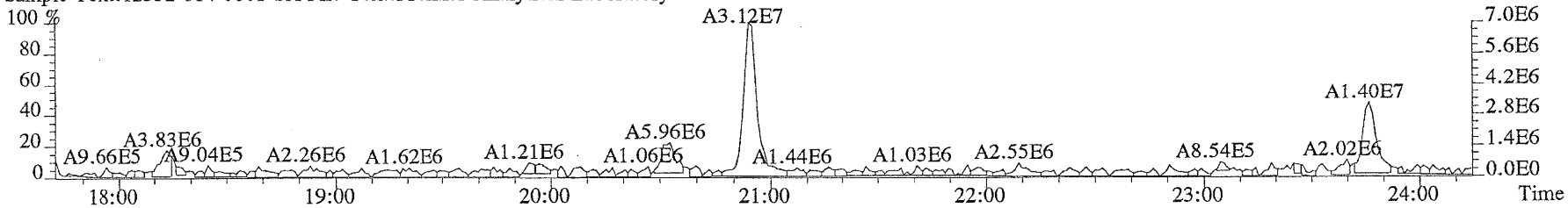
File:25JUL19Z #1-784 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



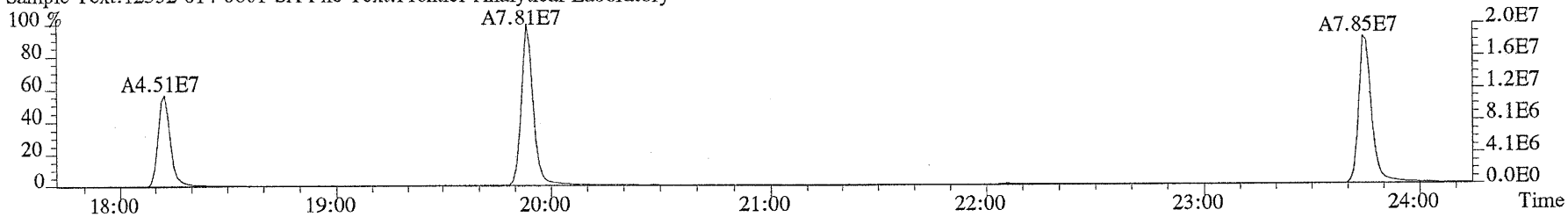
File:25JUL19Z #1-520 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



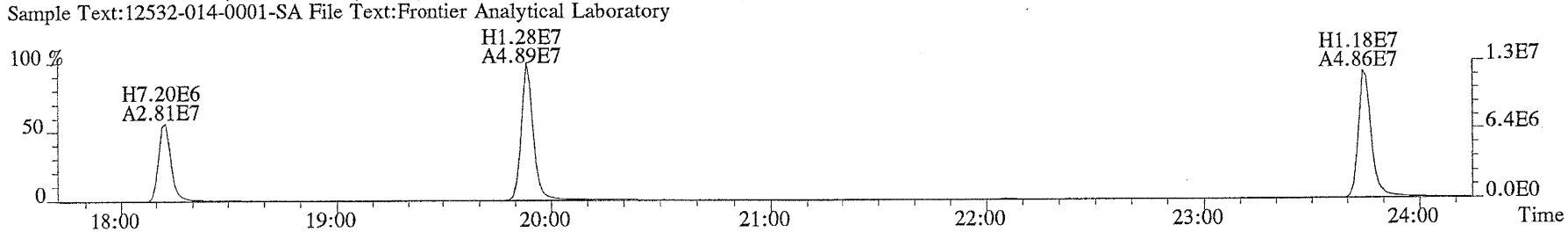
File:25JUL19Z #1-520 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



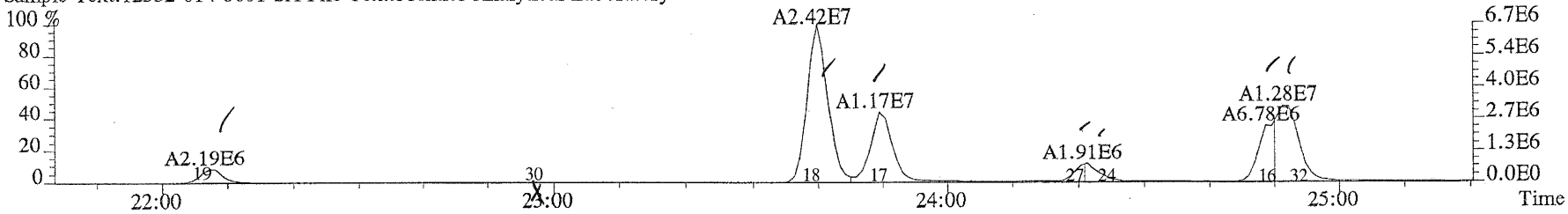
File:25JUL19Z #1-520 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



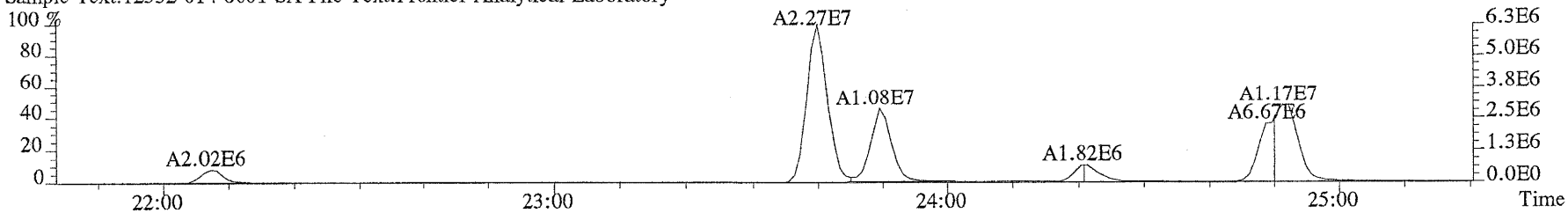
File:25JUL19Z #1-520 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



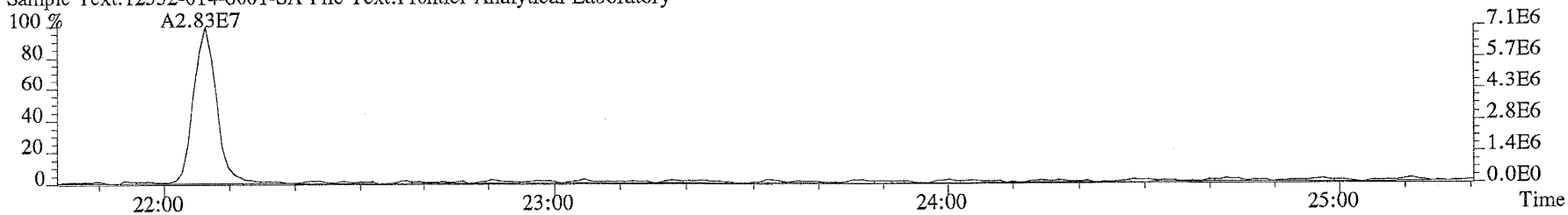
File:25JUL19Z #1-520 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



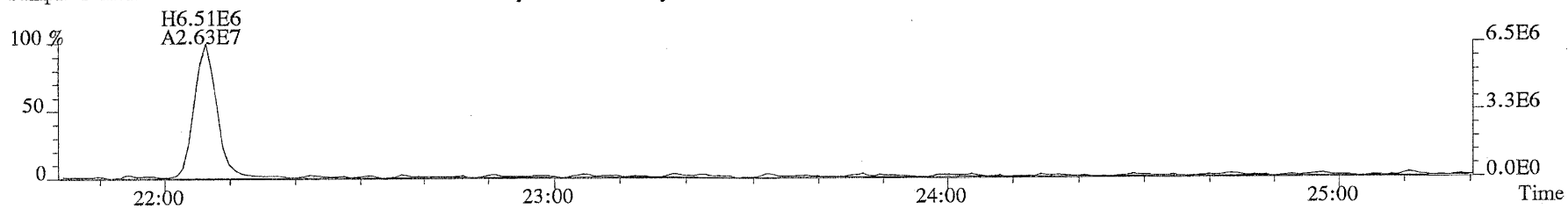
File:25JUL19Z #1-520 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



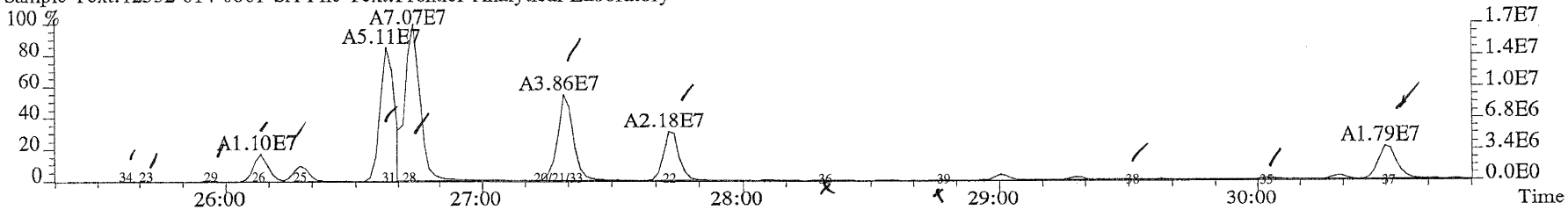
File:25JUL19Z #1-520 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



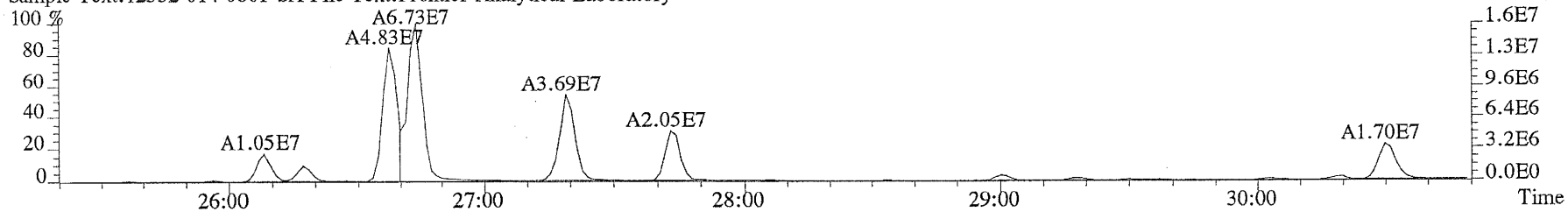
File:25JUL19Z #1-520 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



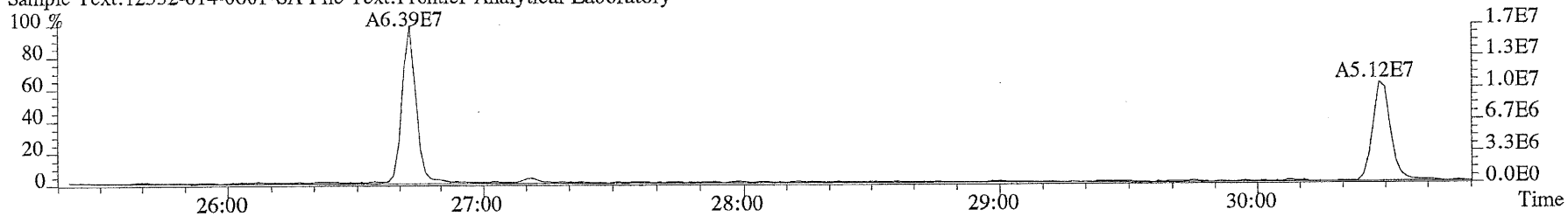
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



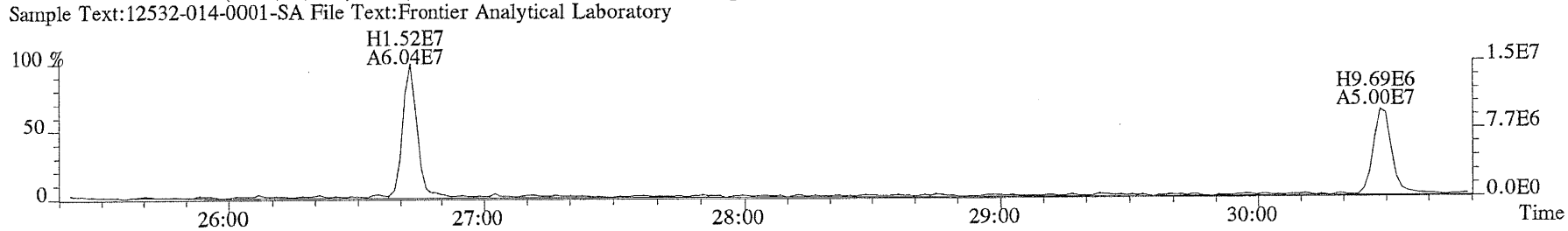
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



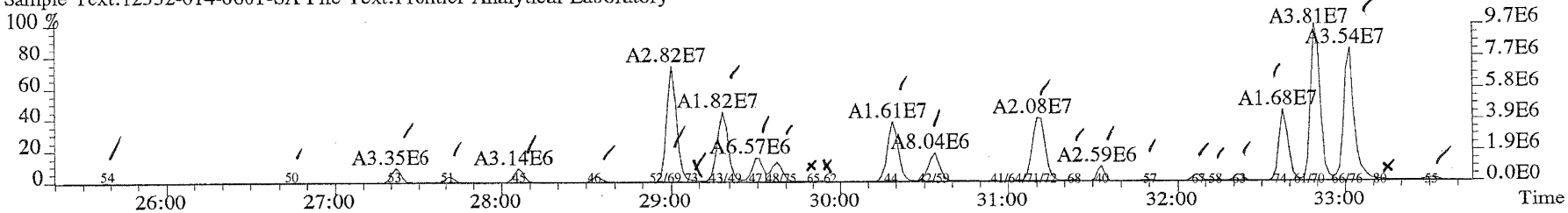
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



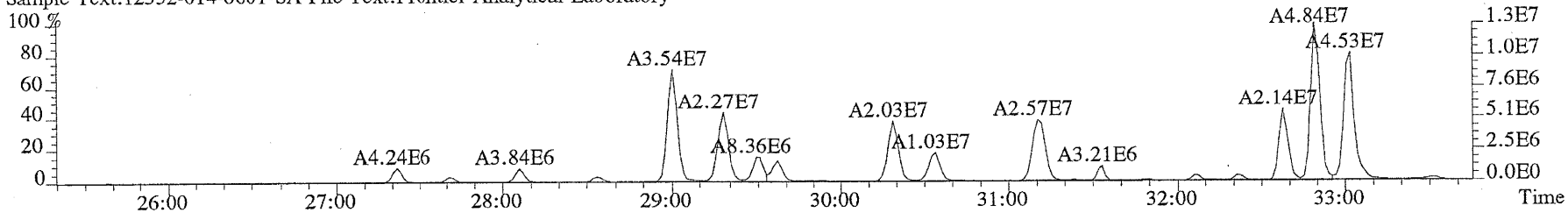
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



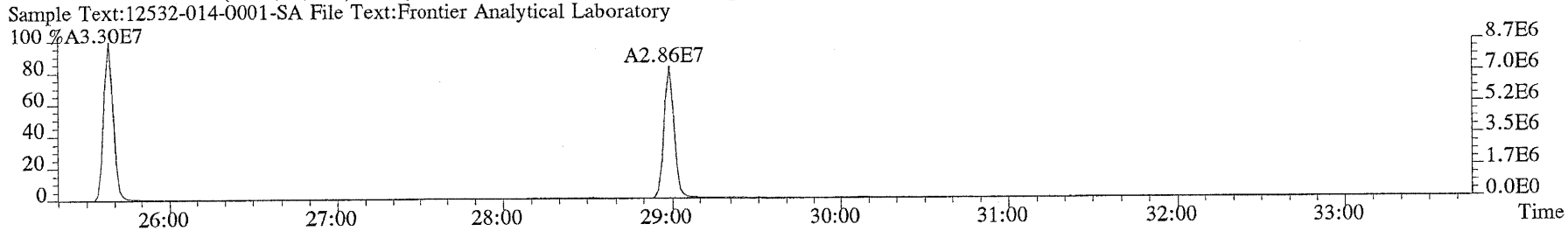
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



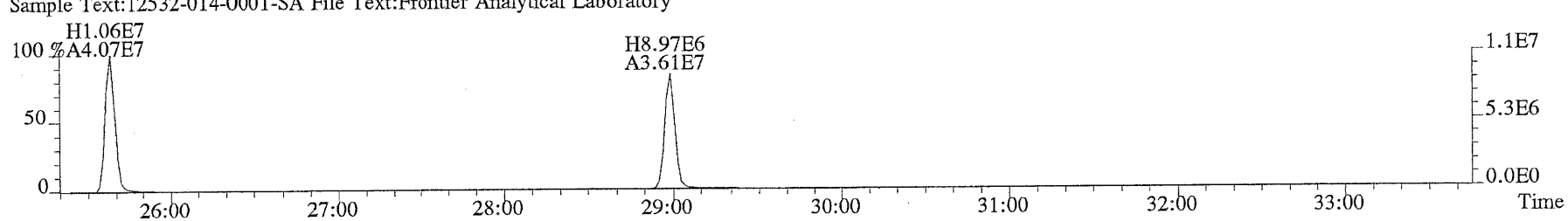
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



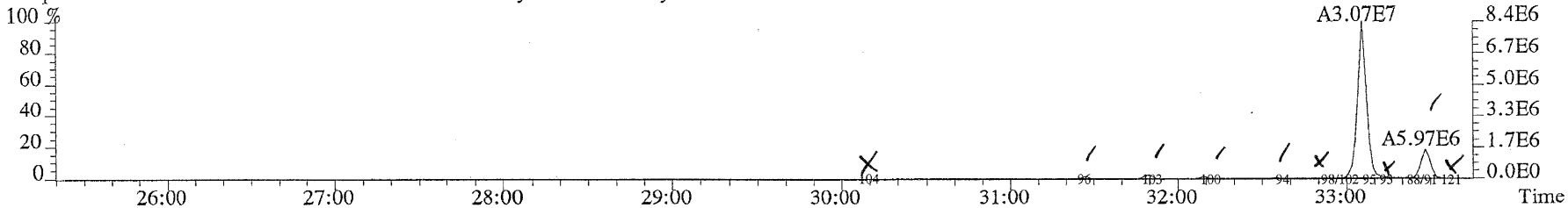
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



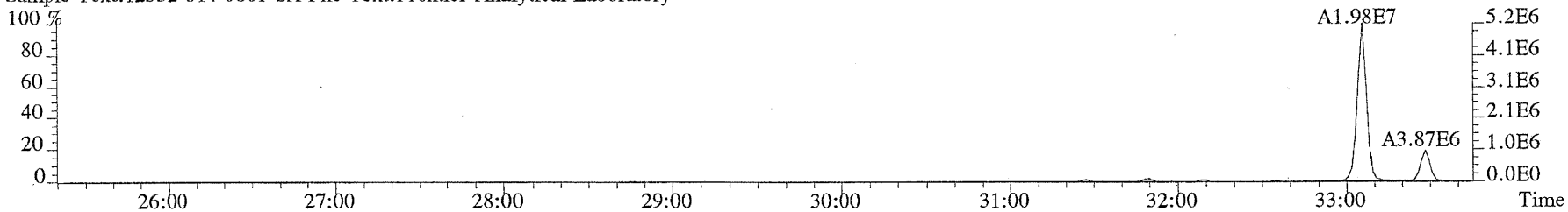
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



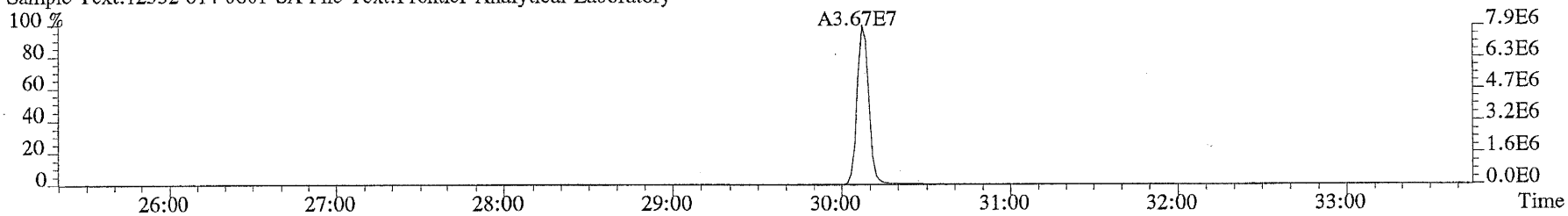
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



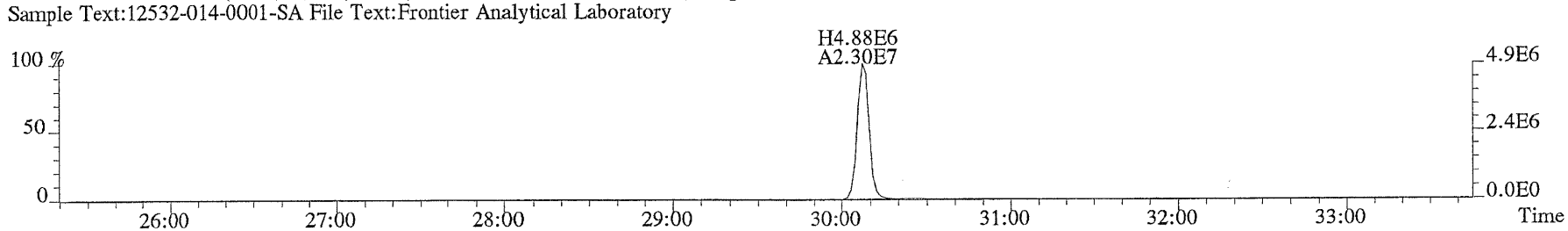
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



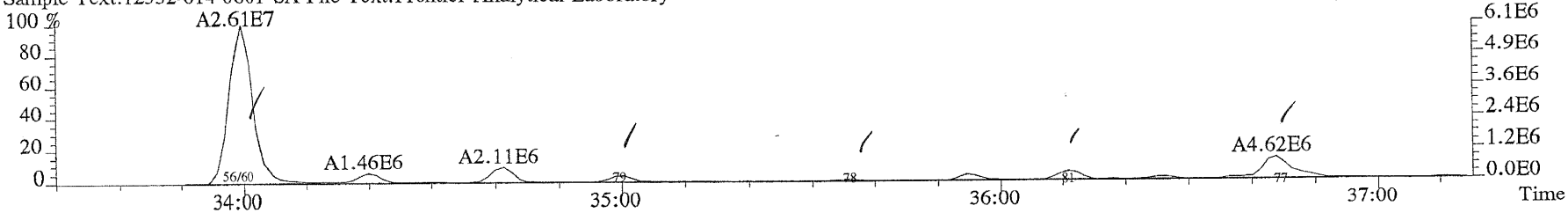
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



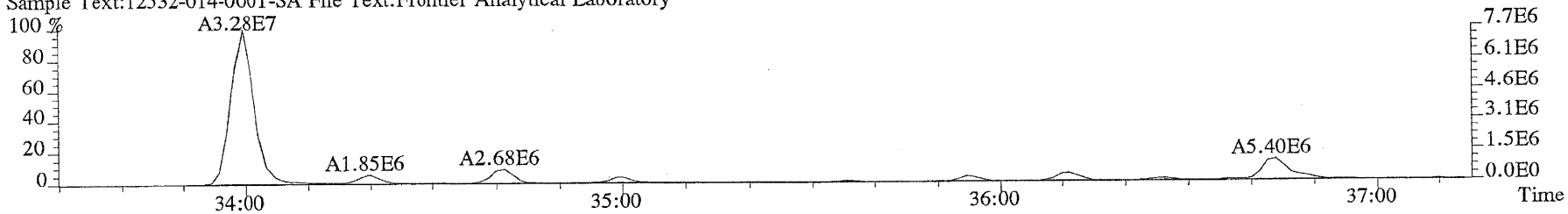
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



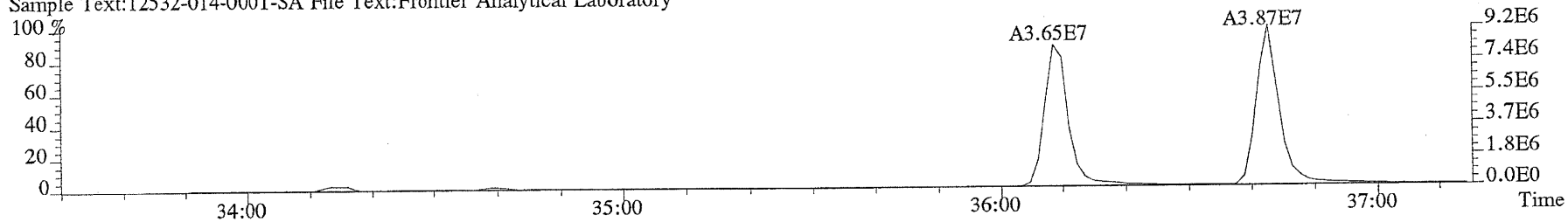
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



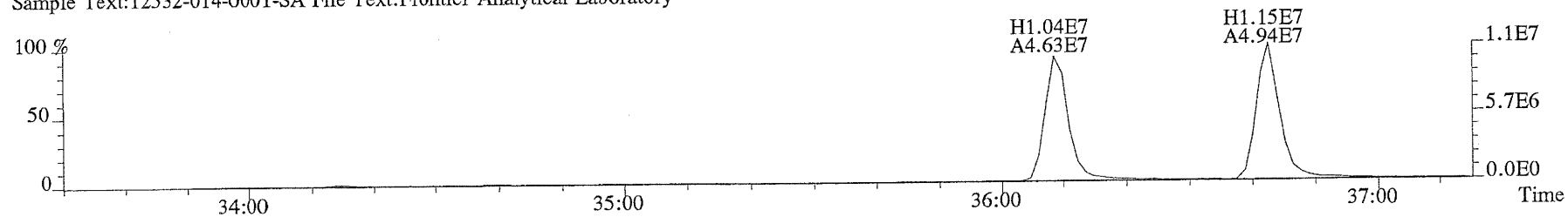
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



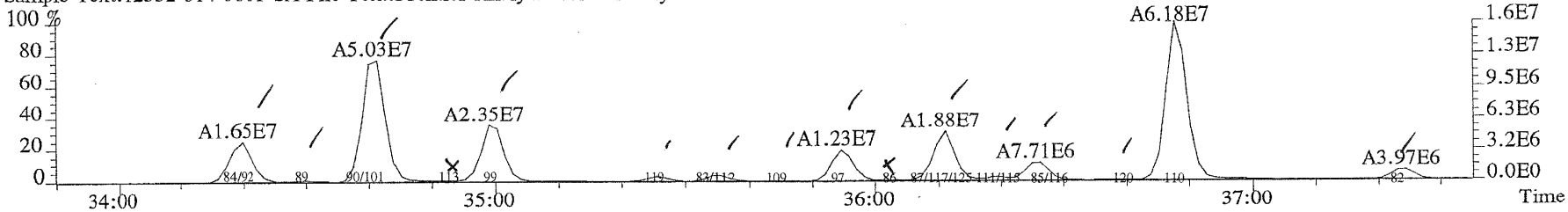
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



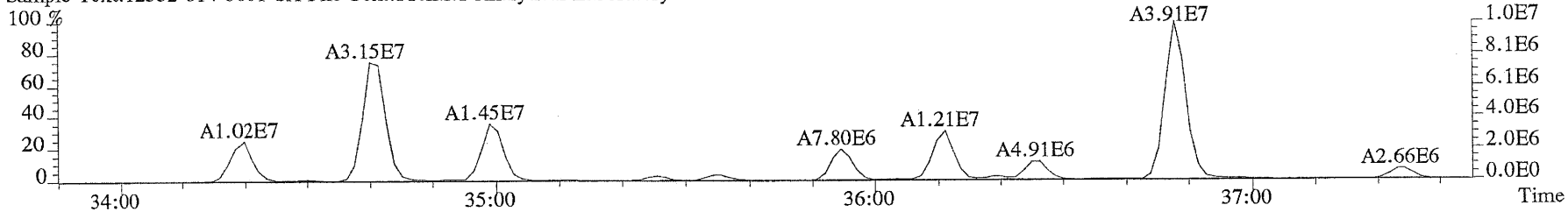
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



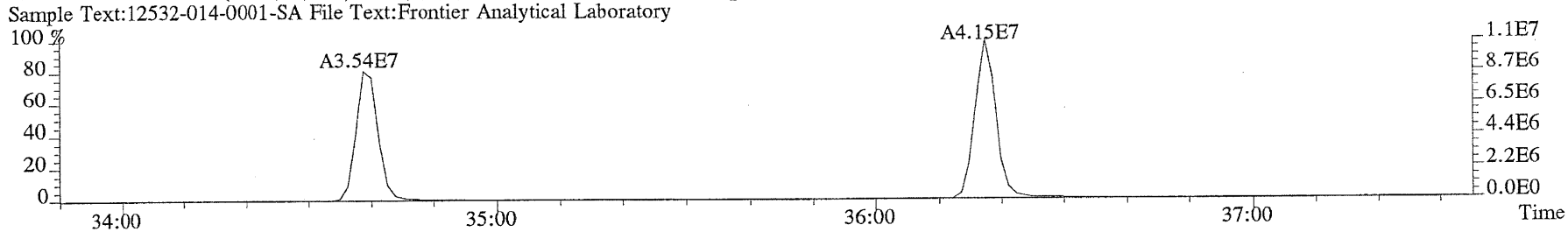
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



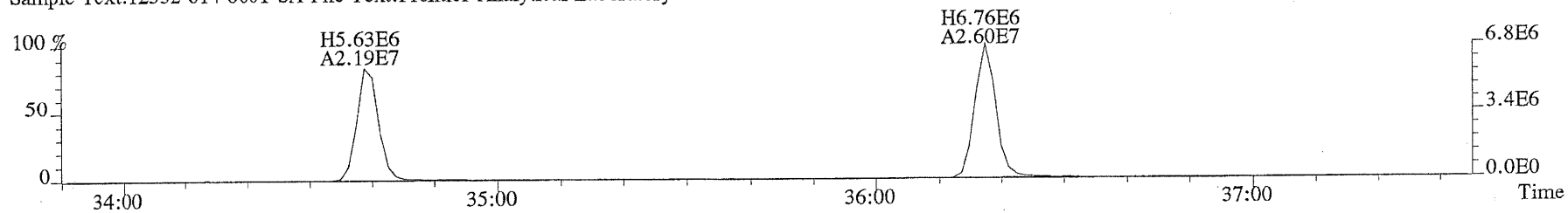
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



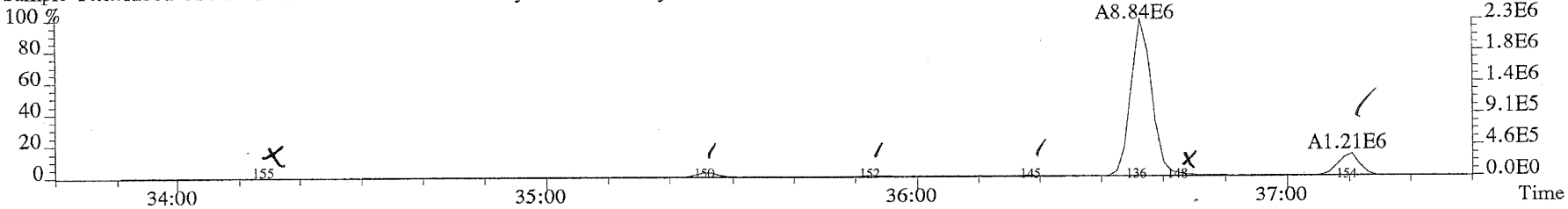
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



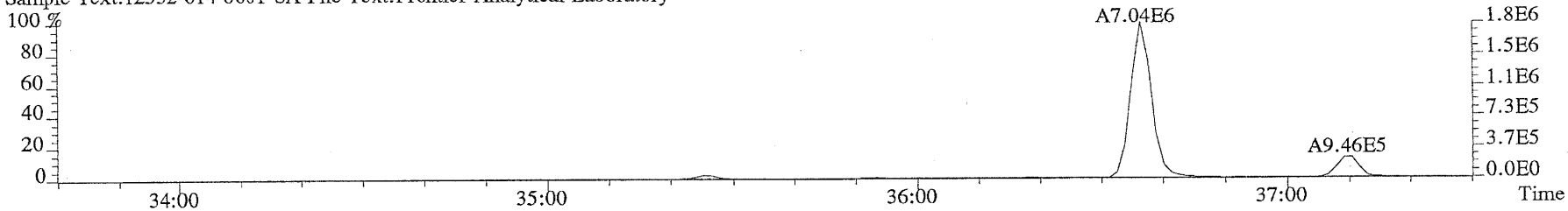
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



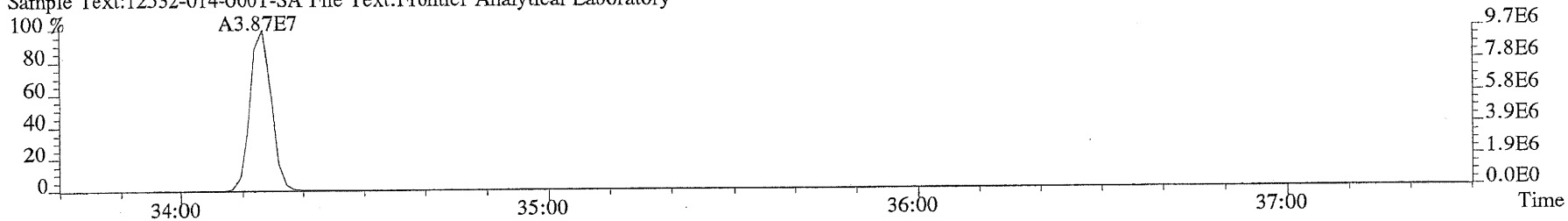
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



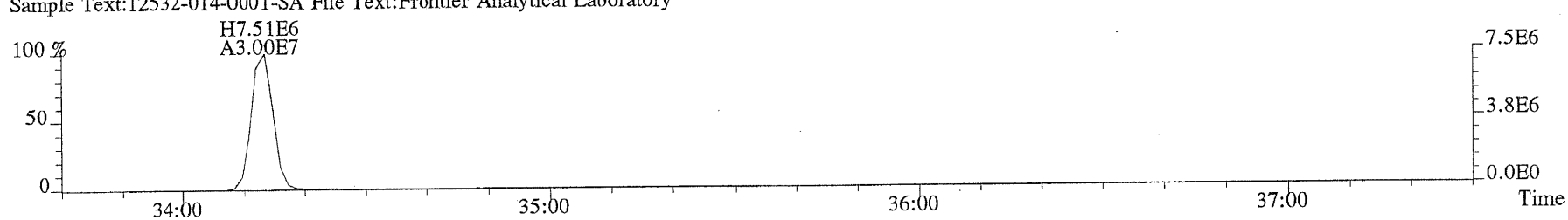
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



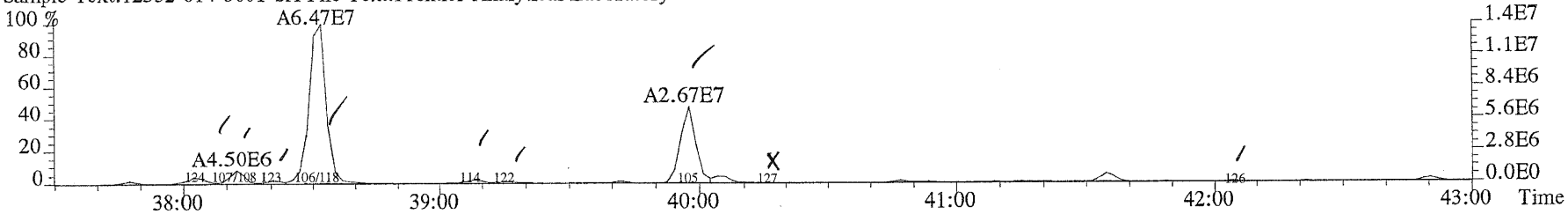
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



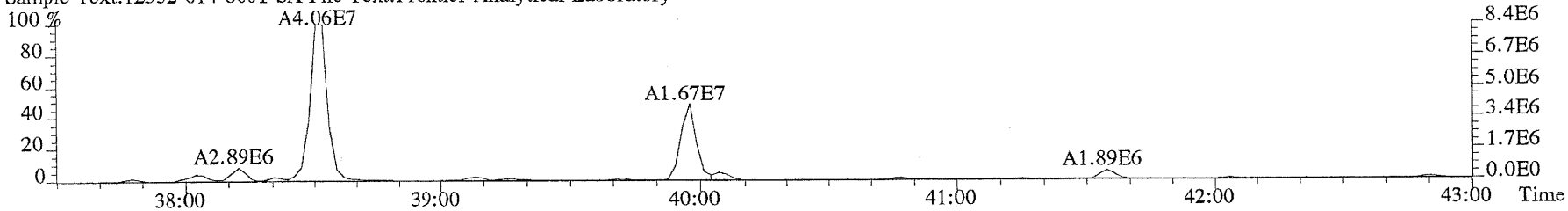
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



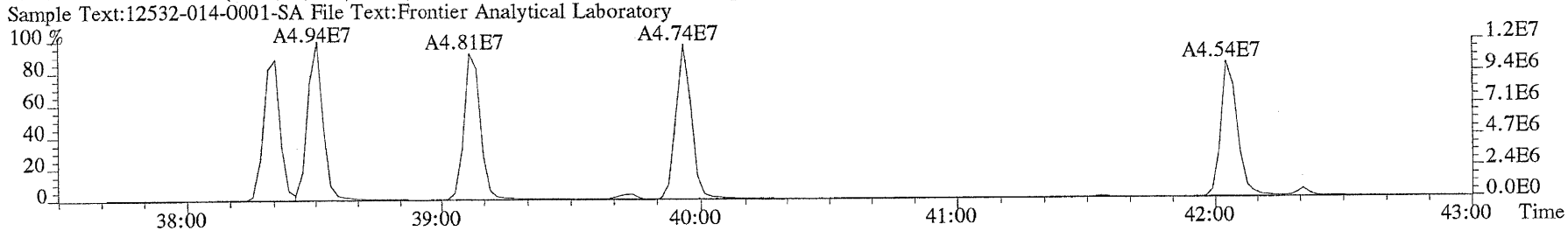
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



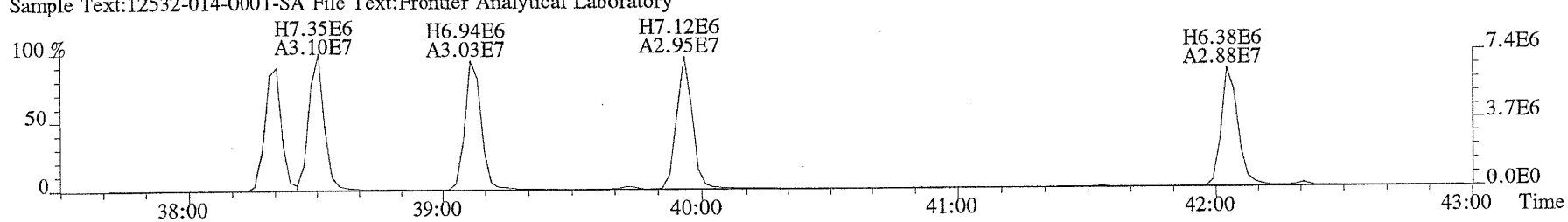
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



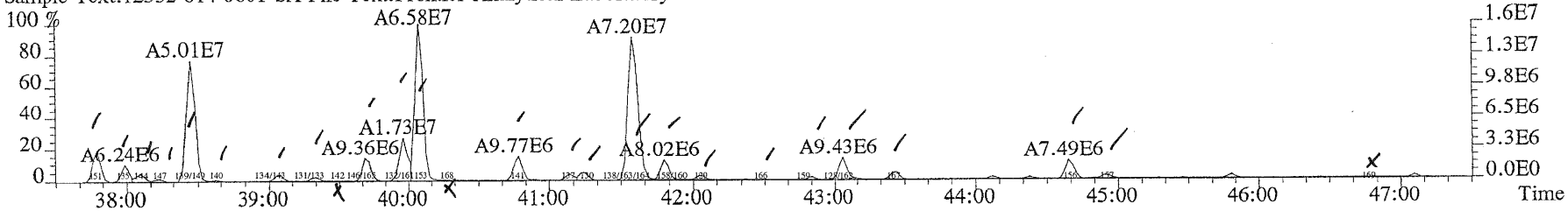
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



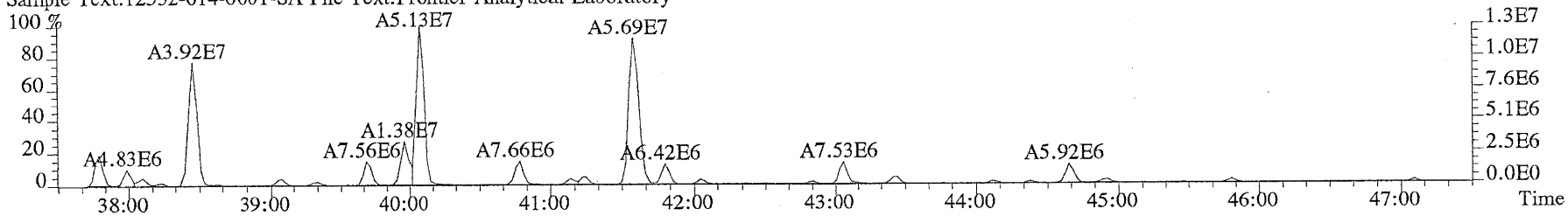
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



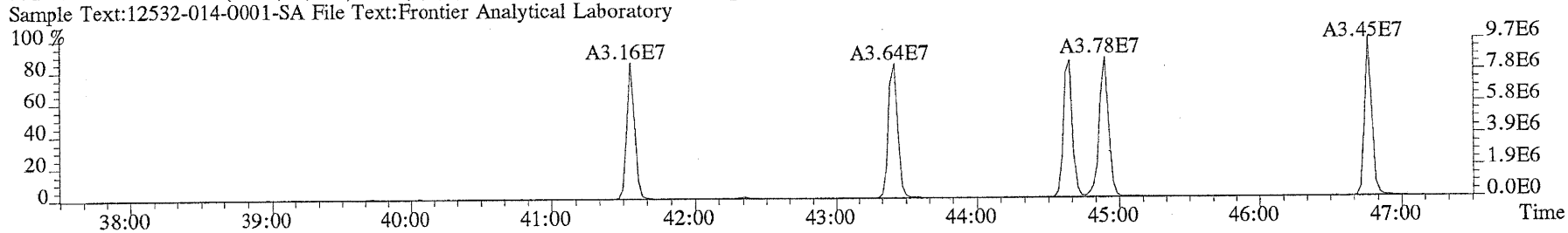
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



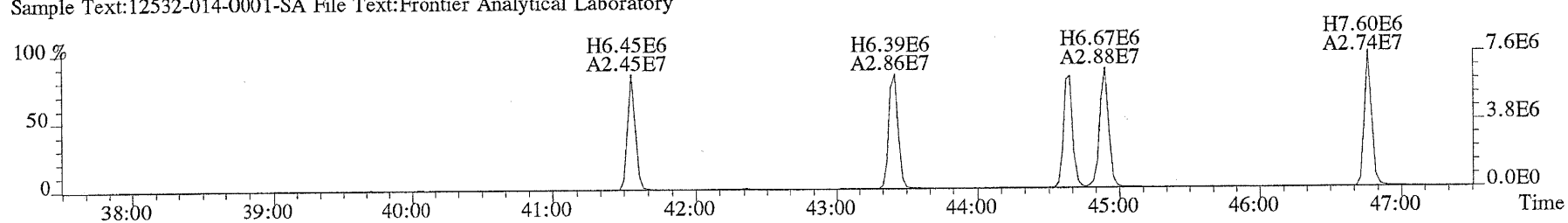
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



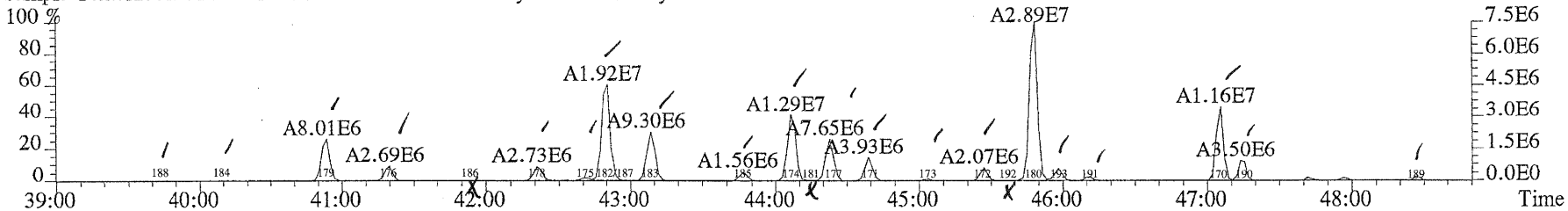
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



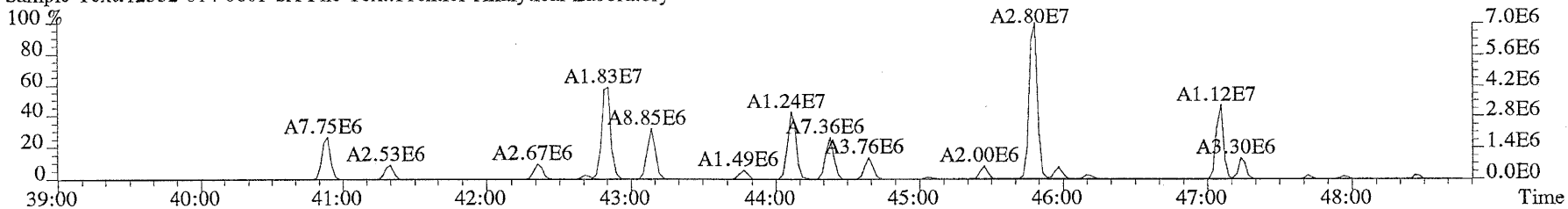
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



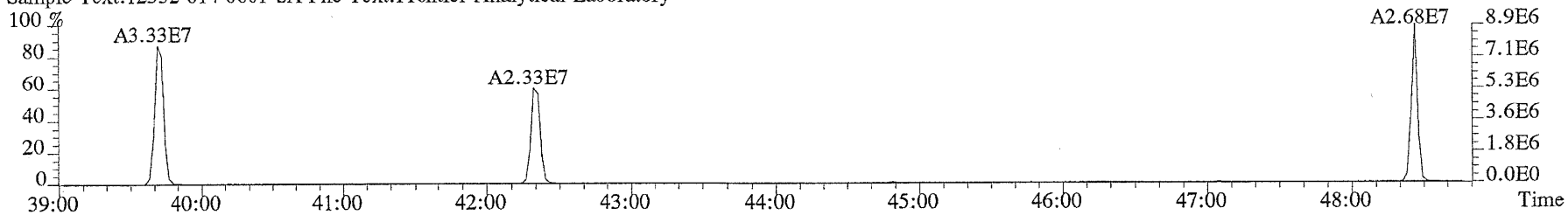
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



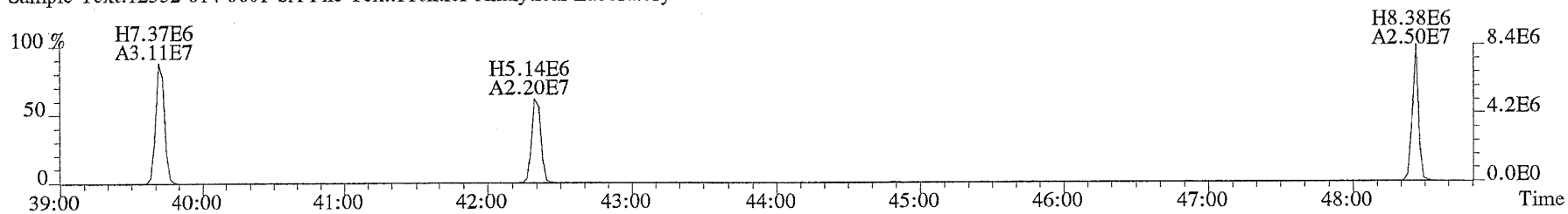
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



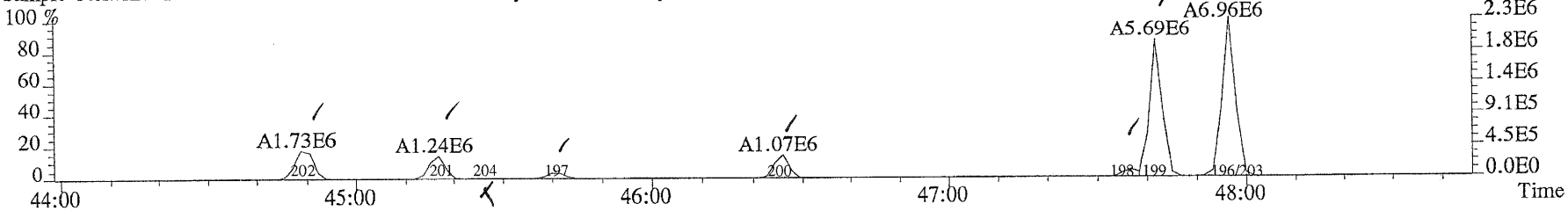
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



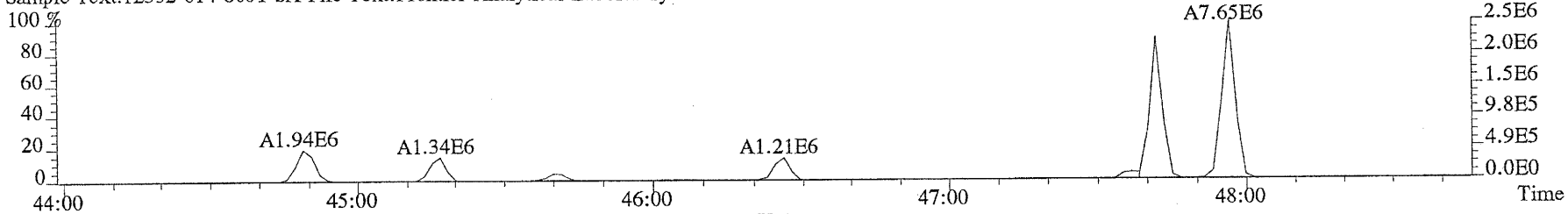
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



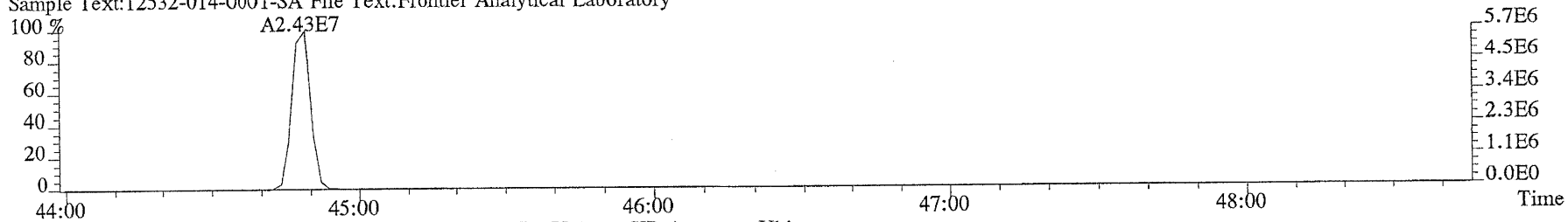
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



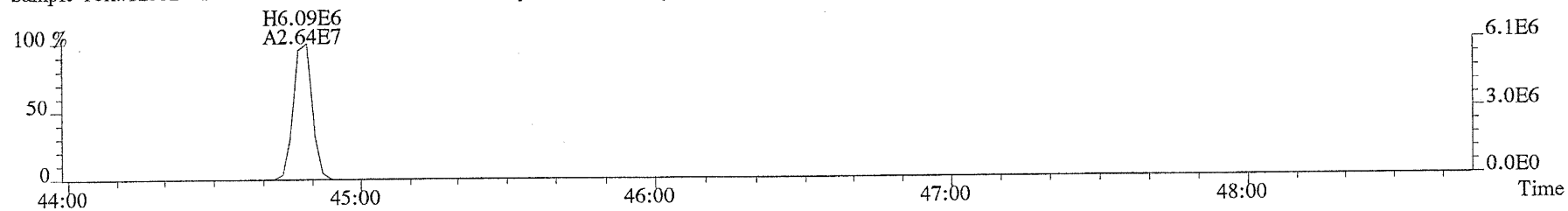
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



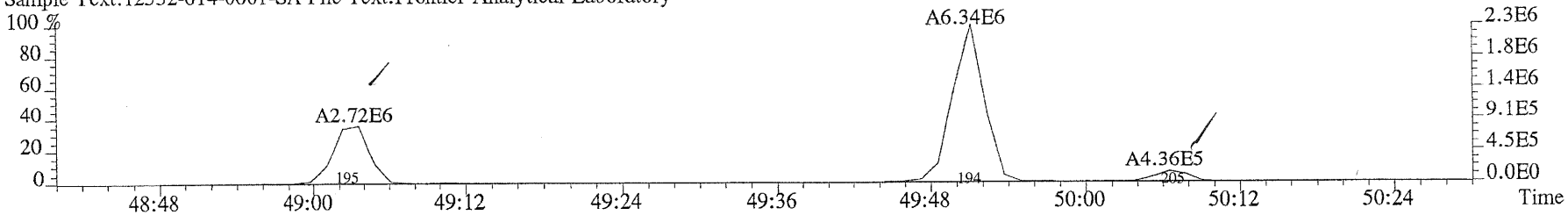
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



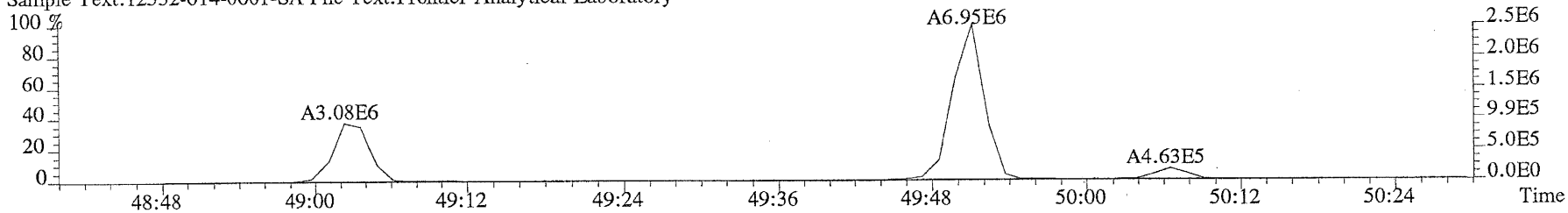
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



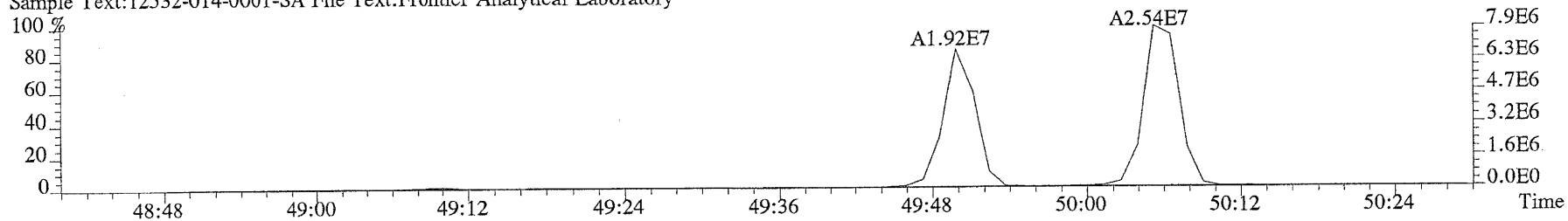
File:25JUL19Z #1-314 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



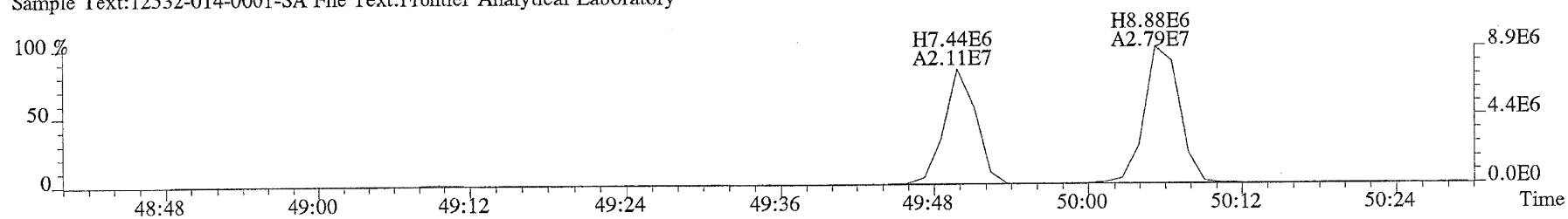
File:25JUL19Z #1-314 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



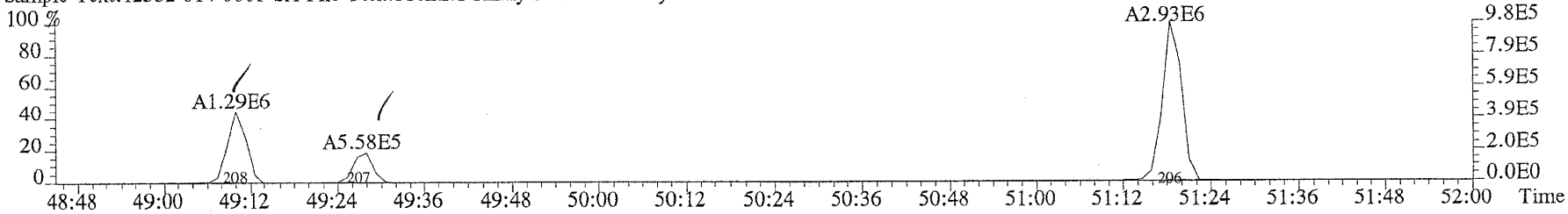
File:25JUL19Z #1-314 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



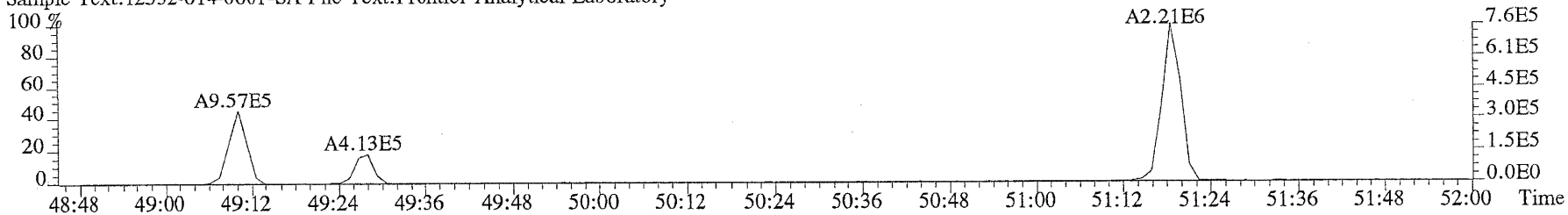
File:25JUL19Z #1-314 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



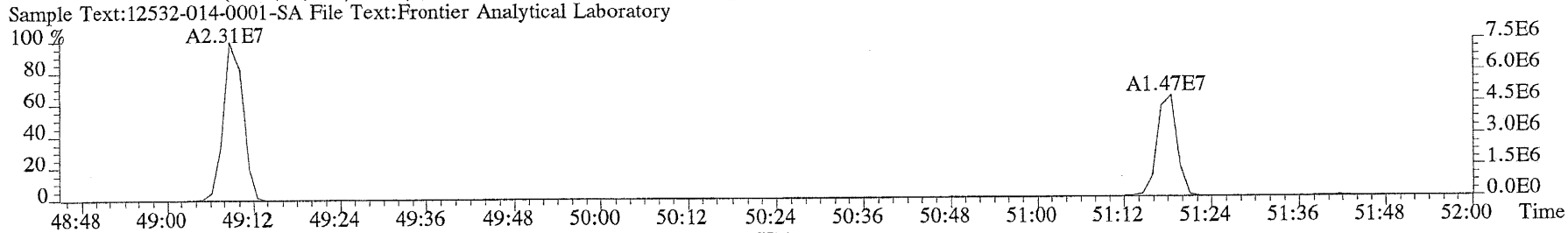
File:25JUL19Z #1-314 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



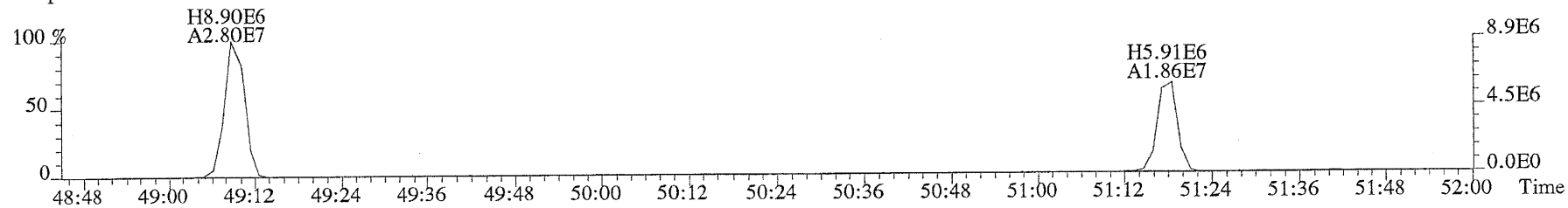
File:25JUL19Z #1-314 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



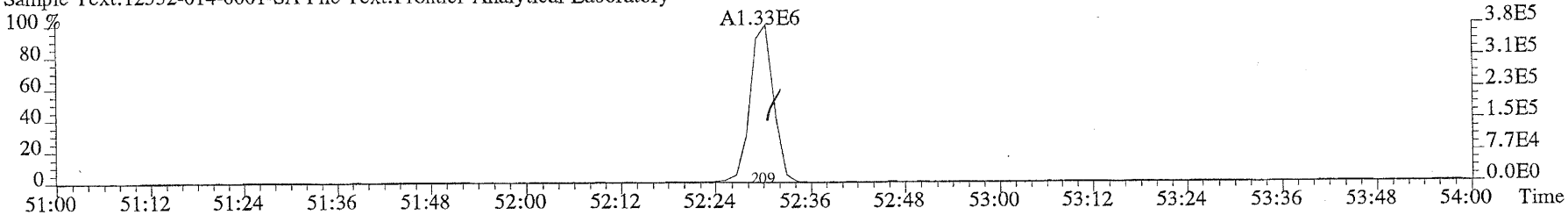
File:25JUL19Z #1-314 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



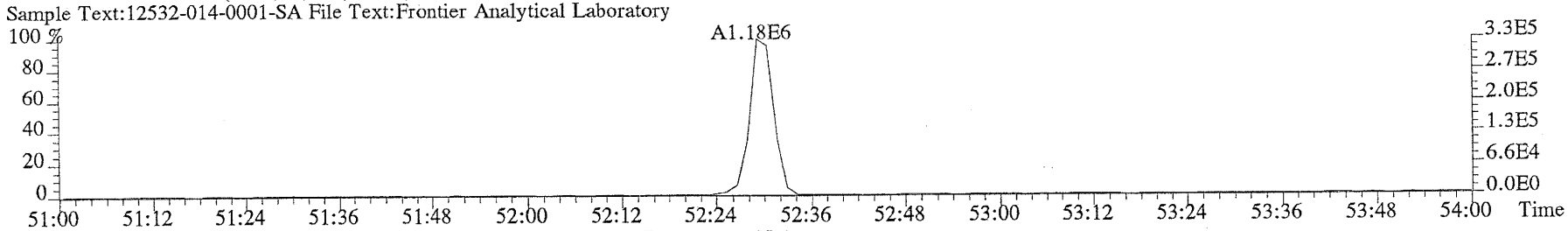
File:25JUL19Z #1-314 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



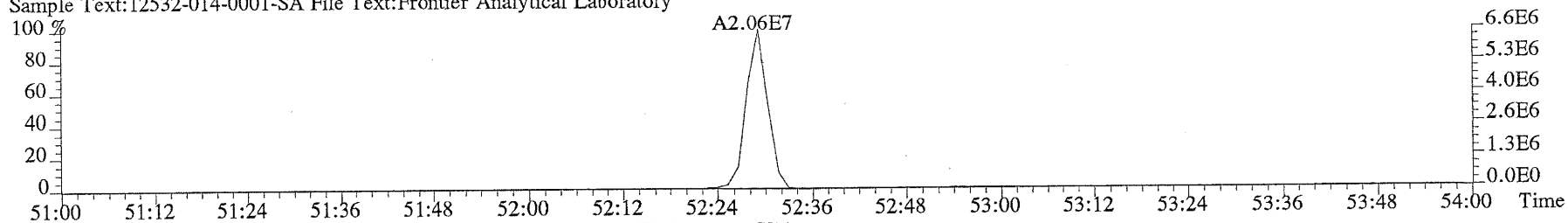
File:25JUL19Z #1-314 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



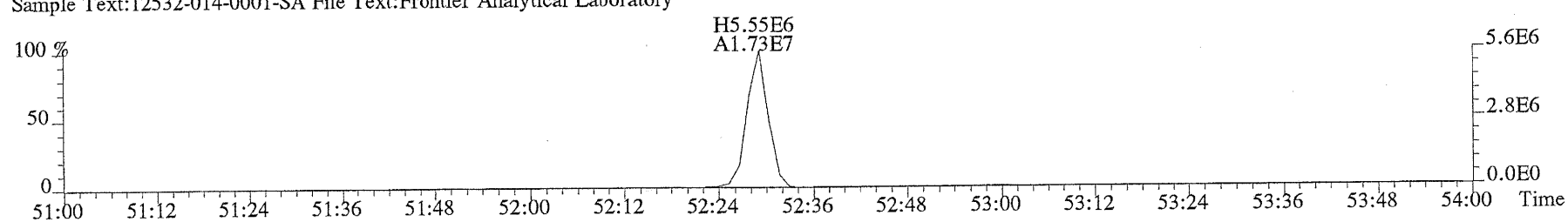
File:25JUL19Z #1-314 Acq:25-JUL-2019 18:00:33 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-014-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-314 Acq:25-JUL-2019 18:00:33 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:12532-014-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-314 Acq:25-JUL-2019 18:00:33 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:12532-014-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12532-015-0001-SA Filename: 25JUL19Z Sam:9 Acquired: 25-JUL-19 18:58:54 ICal: DAILY209FAL4-7-25-19
Client ID: LDW-Y2-SC-ENR-CE-CORE ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 5.010

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	8.24e+05	3.14 y	14:32	1.17	29.0		-	-	*	
13C-PCB-1	4.87e+07	3.18 y	14:31	0.90	1580					79.0
PCB-2	2.28e+05	3.15 y	16:46	1.20	7.82		-	-	*	
PCB-3	7.22e+05	3.23 y	16:59	1.20	24.9		-	-	*	
13C-PCB-3	4.83e+07	3.32 y	16:58	0.87	1620					80.9
PCB-4	4.09e+06	1.42 y	18:13	1.10	199		-	-	*	
PCB-10	1.10e+06	1.53 y	18:17	1.40	30.8		-	-	*	
13C-PCB-4	3.73e+07	1.57 y	18:12	0.66	1660					83.0
PCB-9	1.30e+06	1.49 y	19:55	1.32	38.5		-	-	*	
PCB-7	1.41e+06	1.71 y	19:56	1.48	37.2		-	-	*	
PCB-6	6.58e+06	1.49 y	20:33	1.39	185		-	-	*	
PCB-8	3.07e+07	1.41 y	20:54	1.34	893		-	-	*	
PCB-5	*	* n	NotFnd	1.36	*		484	3030	1.09	
PCB-14	*	* n	NotFnd	1.30	*		484	3030	1.15	
PCB-11	1.57e+06	1.55 y	23:05	1.23	50.1		-	-	*	
PCB-13	1.37e+06	1.59 y	23:26	1.18	45.4		-	-	*	
PCB-12	1.36e+06	1.72 y	23:27	1.23	43.1		-	-	*	
PCB-15	1.71e+07	1.58 y	23:46	1.10	477		-	-	*	
13C-PCB-15	6.48e+07	1.58 y	23:45	0.90	2110					106
PCB-19	2.15e+06	1.07 y	22:07	1.19	125		-	-	*	
PCB-30	*	* n	NotFnd	1.80	*		1220	1000	0.896	
PCB-18	2.46e+07	1.09 y	23:40	1.17	1450		-	-	*	
PCB-17	1.19e+07	1.08 y	23:49	1.29	639		-	-	*	
PCB-27	1.82e+06	1.09 y	24:21	1.65	76.6		-	-	*	
PCB-24	1.78e+06	1.11 y	24:22	1.76	70.2		-	-	*	
PCB-16	9.30e+06	1.03 y	24:50	1.43	451		-	-	*	
PCB-32	1.09e+07	1.12 y	24:52	1.46	517		-	-	*	
13C-PCB-19	2.88e+07	1.05 y	22:06	0.49	1720					86.0
13C-PCB-9	6.85e+07	1.60 y	19:53	-	8.35					
PCB-34	3.47e+05	1.04 y	25:36	1.20	11.2		-	-	*	
PCB-23	1.30e+05	1.05 y	25:43	1.47	3.41	J	-	-	*	
PCB-29	5.39e+05	1.14 y	25:57	1.34	15.5		-	-	*	
PCB-26	1.26e+07	1.07 y	26:08	1.27	383		-	-	*	
PCB-25	7.52e+06	1.03 y	26:17	1.26	231		-	-	*	
PCB-31	5.54e+07	1.06 y	26:37	1.28	1670		-	-	*	
PCB-28	7.71e+07	1.10 y	26:43	1.51	1980		-	-	*	
PCB-20	4.21e+07	1.06 y	27:19	1.26	1290		-	-	*	Co-elute PCB 21/33
PCB-21	4.21e+07	1.06 y	27:19	1.26	1290		-	-	*	Co-elute PCB 20/33
PCB-33	4.21e+07	1.06 y	27:19	1.26	1290		-	-	*	Co-elute PCB 20/21
PCB-22	2.37e+07	1.07 y	27:43	1.40	653		-	-	*	
PCB-36	*	* n	NotFnd	1.25	*		1130	1030	0.864	
PCB-39	*	* n	NotFnd	1.24	*		1130	1030	0.866	
PCB-38	5.74e+05	1.01 y	29:30	1.29	17.1		-	-	*	
PCB-35	1.15e+06	1.00 y	30:03	1.13	39.2		-	-	*	
PCB-37	2.07e+07	1.06 y	30:31	1.19	671		-	-	*	
13C-PCB-37	5.16e+07	0.94 y	30:30	1.40	2090					104

PCB-54	1.31e+05	0.83	y	25:39	1.22	5.63		-	-	*	
PCB-50	1.41e+05	0.83	y	26:45	0.89	8.33		-	-	*	
PCB-53	4.95e+06	0.81	y	27:21	0.86	300		-	-	*	
PCB-51	1.86e+06	0.84	y	27:40	0.92	106		-	-	*	
PCB-45	4.66e+06	0.78	y	28:06	0.74	329		-	-	*	
PCB-46	1.79e+06	0.83	y	28:33	0.70	133		-	-	*	
PCB-52	4.39e+07	0.79	y	29:00	0.90	2540		-	-	*	Co-elute PCB 69
PCB-69	4.39e+07	0.79	y	29:00	0.90	2540		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.12	*		960	930	0.841	
PCB-43	2.77e+07	0.79	y	29:18	0.78	1870		-	-	*	Co-elute PCB 49
PCB-49	2.77e+07	0.79	y	29:18	0.78	1870		-	-	*	Co-elute PCB 43
PCB-47	1.01e+07	0.78	y	29:30	0.85	625		-	-	*	
PCB-48	8.28e+06	0.82	y	29:37	1.01	430		-	-	*	Co-elute PCB 75
PCB-75	8.28e+06	0.82	y	29:37	1.01	430		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*		960	930	0.925	
PCB-62	*	*	n	NotFnd	1.07	*		960	930	0.878	
PCB-44	2.40e+07	0.78	y	30:18	0.67	1890		-	-	*	
PCB-42	1.23e+07	0.77	y	30:34	0.89	721		-	-	*	Co-elute PCB 59
PCB-59	1.23e+07	0.77	y	30:34	0.89	721		-	-	*	Co-elute PCB 42
PCB-72	3.18e+07	0.79	y	31:10	1.00	1660		-	-	*	Co-elute PCB 41/71/64
PCB-41	3.18e+07	0.79	y	31:10	1.00	1660		-	-	*	Co-elute PCB 72/71/64
PCB-71	3.18e+07	0.79	y	31:10	1.00	1660		-	-	*	Co-elute PCB 72/41/64
PCB-64	3.18e+07	0.79	y	31:10	1.00	1660		-	-	*	Co-elute PCB 72/41/71
PCB-68	3.88e+05	0.88	y	31:22	1.14	17.8		-	-	*	
PCB-40	3.97e+06	0.82	y	31:32	0.61	341		-	-	*	
PCB-57	3.66e+05	0.84	y	31:49	1.07	17.9		-	-	*	
PCB-67	1.98e+06	0.79	y	32:06	0.99	104		-	-	*	
PCB-58	1.97e+05	0.68	y	32:12	1.11	9.27		-	-	*	
PCB-63	2.08e+06	0.80	y	32:21	1.05	104		-	-	*	
PCB-74	2.50e+07	0.78	y	32:37	1.02	1280		-	-	*	
PCB-61	5.76e+07	0.79	y	32:49	0.97	3120		-	-	*	Co-elute PCB 70
PCB-70	5.76e+07	0.79	y	32:49	0.97	3120		-	-	*	Co-elute PCB 61
PCB-76	5.43e+07	0.79	y	33:02	1.05	2700		-	-	*	Co-elute PCB 66
PCB-66	5.43e+07	0.79	y	33:02	1.05	2700		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.24	*		960	930	0.758	
PCB-55	1.58e+06	0.70	y	33:32	1.06	78.2		-	-	*	
13C-PCB-54	3.81e+07	0.80	y	25:38	1.36	1590					79.5
PCB-104	*	*	n	NotFnd	1.10	*		680	488	0.799	
PCB-96	3.89e+05	1.60	y	31:24	1.04	24.3		-	-	*	
PCB-103	7.76e+05	1.64	y	31:49	0.84	59.8		-	-	*	
PCB-100	4.21e+05	1.55	y	32:08	0.85	32.1		-	-	*	
PCB-94	2.13e+05	1.58	y	32:35	0.69	20.2		-	-	*	
PCB-98	*	*	n	NotFnd	0.69	*		680	488	1.27	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.69	*		680	488	1.27	Co-elute PCB 98
PCB-95	3.53e+07	1.55	y	33:05	0.77	2970		-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*		680	488	1.13	
PCB-88	6.39e+06	1.49	y	33:28	0.83	498		-	-	*	Co-elute PCB 91
PCB-91	6.39e+06	1.49	y	33:28	0.83	498		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.89	*		680	488	0.986	
13C-PCB-104	3.08e+07	1.60	y	30:07	1.06	1640					81.9
13C-PCB-28	6.08e+07	0.98	y	26:42	1.72	2000					100
13C-PCB-52	3.53e+07	0.80	y	28:59	-	9.39					

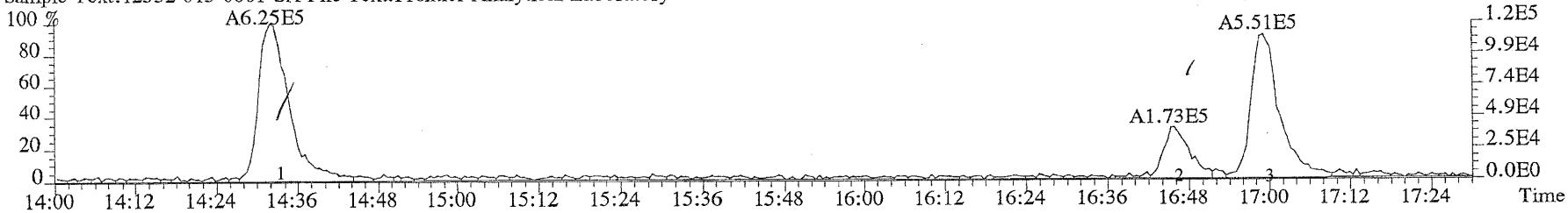
PCB-56	3.74e+07	0.79	y	33:59	1.17	1510			-	-	*	Co-elute PCB 60
PCB-60	3.74e+07	0.79	y	33:59	1.17	1510			-	-	*	Co-elute PCB 56
PCB-79	1.34e+06	0.80	y	35:00	1.22	52.5			-	-	*	
PCB-78	3.04e+05	0.89	y	35:35	1.16	12.4			-	-	*	
PCB-81	2.02e+06	0.83	y	36:11	1.25	80.1			-	-	*	
13C-PCB-81	4.05e+07	0.79	y	36:10	1.37	2000						100
PCB-77	6.26e+06	0.82	y	36:44	1.06	271			-	-	*	
13C-PCB-77	4.35e+07	0.79	y	36:42	1.44	2050						103
PCB-155	*	*	n	NotFnd	1.04	*			924	624	0.914	
PCB-150	2.93e+05	1.30	y	35:25	0.95	19.2			-	-	*	
PCB-152	7.98e+04	1.28	y	35:53	0.90	5.49			-	-	*	
PCB-145	2.71e+04	1.25	y	36:18	0.93	1.81		J	-	-	*	
PCB-136	1.11e+07	1.28	y	36:36	0.93	737			-	-	*	
PCB-148	*	*	n	NotFnd	0.62	*			924	624	1.52	
PCB-154	1.56e+06	1.27	y	37:10	0.75	129			-	-	*	
13C-PCB-155	3.22e+07	1.30	y	34:13	1.44	1510						75.7
13C-PCB-111	3.30e+07	1.59	y	36:17	1.22	1830						91.6
13C-PCB-101	2.95e+07	1.61	y	34:39	-	9.67						
PCB-84	1.87e+07	1.57	y	34:20	0.83	1120			-	-	*	Co-elute PCB 92
PCB-92	1.87e+07	1.57	y	34:20	0.83	1120			-	-	*	Co-elute PCB 84
PCB-89	6.32e+05	1.44	y	34:30	0.81	39.0			-	-	*	
PCB-90	5.66e+07	1.60	y	34:41	0.89	3190			-	-	*	Co-elute PCB 101
PCB-101	5.66e+07	1.60	y	34:41	0.89	3190			-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.02	*			928	880	0.937	
PCB-99	2.60e+07	1.57	y	34:59	0.98	1330			-	-	*	
PCB-119	1.76e+06	1.53	y	35:25	1.13	77.5			-	-	*	
PCB-83	2.24e+06	1.60	y	35:35	0.90	125			-	-	*	Co-elute PCB 112
PCB-112	2.24e+06	1.60	y	35:35	0.90	125			-	-	*	Co-elute PCB 83
PCB-109	4.05e+04	1.46	y	35:43	1.08	1.87		J	-	-	*	
PCB-97	1.37e+07	1.56	y	35:54	0.73	942			-	-	*	
PCB-86	*	*	n	NotFnd	0.79	*			928	880	1.21	
PCB-125	2.11e+07	1.59	y	36:11	0.97	1090			-	-	*	Co-elute PCB 87/117
PCB-87	2.11e+07	1.59	y	36:11	0.97	1090			-	-	*	Co-elute PCB 125/117
PCB-117	2.11e+07	1.59	y	36:11	0.97	1090			-	-	*	Co-elute PCB 125/87
PCB-111	1.41e+06	1.49	y	36:20	1.13	62.4			-	-	*	Co-elute PCB 115
PCB-115	1.41e+06	1.49	y	36:20	1.13	62.4			-	-	*	Co-elute PCB 111
PCB-85	8.76e+06	1.55	y	36:26	0.97	450			-	-	*	Co-elute PCB 116
PCB-116	8.76e+06	1.55	y	36:26	0.97	450			-	-	*	Co-elute PCB 85
PCB-120	4.51e+05	1.44	y	36:39	1.18	19.2			-	-	*	
PCB-110	7.13e+07	1.58	y	36:48	1.10	3240			-	-	*	
PCB-82	4.66e+06	1.47	y	37:24	0.62	375			-	-	*	
PCB-124	3.33e+06	1.57	y	38:02	1.10	151			-	-	*	
PCB-108	5.09e+06	1.53	y	38:12	1.20	213			-	-	*	Co-elute PCB 107
PCB-107	5.09e+06	1.53	y	38:12	1.20	213			-	-	*	Co-elute PCB 108
PCB-123	1.37e+06	1.59	y	38:20	1.01	69.3			-	-	*	
13C-PCB-123	3.90e+07	1.58	y	38:20	1.31	1980						99.3
PCB-118	7.18e+07	1.59	y	38:32	1.09	3160			-	-	*	Co-elute PCB 106
PCB-106	7.18e+07	1.59	y	38:32	1.09	3160			-	-	*	Co-elute PCB 118
13C-PCB-118	4.17e+07	1.60	y	38:30	1.46	1910						95.5
PCB-114	2.03e+06	1.52	y	39:08	1.14	90.5			-	-	*	
13C-PCB-114	3.95e+07	1.58	y	39:06	1.34	1970						98.8
PCB-122	1.07e+06	1.53	y	39:16	1.16	46.0			-	-	*	
PCB-105	2.79e+07	1.58	y	39:57	1.19	1190			-	-	*	
13C-PCB-105	3.93e+07	1.59	y	39:56	1.32	1990						99.8

PCB-127	*	*	n	NotFnd	1.06	*	1250	1010	1.13	
PCB-126	4.57e+05	1.36	y	42:04	1.13	22.3	-	-	*	
13C-PCB-126	3.61e+07	1.58	y	42:03	1.20	2010				101
PCB-151	1.60e+07	1.26	y	37:47	0.98	971	-	-	*	
PCB-135	8.09e+06	1.29	y	37:59	0.92	521	-	-	*	
PCB-144	4.22e+06	1.31	y	38:05	1.05	238	-	-	*	
PCB-147	1.42e+06	1.28	y	38:14	1.09	77.8	-	-	*	
PCB-139	6.48e+07	1.28	y	38:27	1.08	3590	-	-	*	Co-elute PCB 149
PCB-149	6.48e+07	1.28	y	38:27	1.08	3590	-	-	*	Co-elute PCB 139
PCB-140	6.59e+05	1.16	y	38:38	1.07	36.7	-	-	*	
PCB-143	3.45e+06	1.22	y	39:05	0.86	240	-	-	*	Co-elute PCB 134
PCB-134	3.45e+06	1.22	y	39:05	0.86	240	-	-	*	Co-elute PCB 143
PCB-131	2.01e+06	1.24	y	39:20	0.85	141	-	-	*	Co-elute PCB 133
PCB-133	2.01e+06	1.24	y	39:20	0.85	141	-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.86	*	692	615	0.938	
PCB-165	1.24e+07	1.29	y	39:41	1.17	631	-	-	*	Co-elute PCB 146
PCB-146	1.24e+07	1.29	y	39:41	1.17	631	-	-	*	Co-elute PCB 165
PCB-161	2.26e+07	1.24	y	39:57	1.07	1250	-	-	*	Co-elute PCB 132
PCB-132	2.26e+07	1.24	y	39:57	1.07	1250	-	-	*	Co-elute PCB 161
PCB-153	8.83e+07	1.28	y	40:04	1.16	4520	-	-	*	
PCB-168	*	*	n	NotFnd	1.27	*	692	615	0.636	
PCB-141	1.31e+07	1.25	y	40:47	0.93	841	-	-	*	
PCB-137	3.10e+06	1.26	y	41:08	0.87	212	-	-	*	
PCB-130	4.02e+06	1.25	y	41:15	0.85	281	-	-	*	
PCB-138	9.25e+07	1.27	y	41:35	1.13	4880	-	-	*	Co-elute PCB 163/164
PCB-163	9.25e+07	1.27	y	41:35	1.13	4880	-	-	*	Co-elute PCB 138/164
PCB-164	9.25e+07	1.27	y	41:35	1.13	4880	-	-	*	Co-elute PCB 138/163
PCB-158	1.05e+07	1.27	y	41:48	1.27	491	-	-	*	Co-elute PCB 160
PCB-160	1.05e+07	1.27	y	41:48	1.27	491	-	-	*	Co-elute PCB 158
PCB-129	2.60e+06	1.19	y	42:03	0.79	196	-	-	*	
PCB-166	3.10e+05	1.06	y	42:29	1.20	15.4	-	-	*	
PCB-159	1.60e+06	1.30	y	42:50	1.31	72.7	-	-	*	
PCB-128	1.21e+07	1.27	y	43:03	1.03	698	-	-	*	Co-elute PCB 162
PCB-162	1.21e+07	1.27	y	43:03	1.03	698	-	-	*	Co-elute PCB 128
PCB-167	4.01e+06	1.24	y	43:26	1.13	207	-	-	*	
13C-PCB-167	3.43e+07	1.27	y	43:25	1.15	1990				99.7
PCB-156	9.66e+06	1.28	y	44:39	1.23	476	-	-	*	
13C-PCB-156	3.30e+07	1.27	y	44:39	1.11	1980				99.1
PCB-157	2.17e+06	1.31	y	44:55	1.15	107	-	-	*	
13C-PCB-157	3.50e+07	1.30	y	44:54	1.14	2040				102
PCB-169	*	*	n	NotFnd	1.11	*	692	615	0.648	
13C-PCB-169	3.19e+07	1.29	y	46:46	1.08	1970				98.9

PCB-188	7.74e+04	0.99	y	39:43	1.06	4.55			-	-	*	
13C-PCB-188	3.21e+07	1.05	y	39:41	1.26	1700						85.1
PCB-184	4.28e+04	1.15	y	40:07	1.24	2.33	J		-	-	*	
PCB-179	1.12e+07	1.05	y	40:53	1.13	673			-	-	*	
PCB-176	3.77e+06	1.01	y	41:20	1.08	236			-	-	*	
PCB-186	*	*	n	NotFnd	1.13	*			650	590	0.711	
PCB-178	4.00e+06	1.05	y	42:21	0.76	357			-	-	*	
PCB-175	9.13e+05	1.04	y	42:40	0.77	80.4			-	-	*	
PCB-187	2.65e+07	1.05	y	42:50	0.86	2090			-	-	*	Co-elute PCB 182
PCB-182	2.65e+07	1.05	y	42:50	0.86	2090			-	-	*	Co-elute PCB 187
PCB-183	1.31e+07	1.05	y	43:08	0.83	1070			-	-	*	
PCB-185	2.10e+06	1.02	y	43:46	0.74	191			-	-	*	
PCB-174	1.80e+07	1.03	y	44:06	0.79	1540			-	-	*	
PCB-181	*	*	n	NotFnd	0.70	*			650	590	1.14	
PCB-177	1.06e+07	1.02	y	44:22	0.68	1050			-	-	*	
PCB-171	5.47e+06	1.07	y	44:39	0.74	501			-	-	*	
PCB-173	3.40e+05	0.95	y	45:04	0.66	35.0			-	-	*	
PCB-172	3.09e+06	1.04	y	45:27	0.69	303			-	-	*	
PCB-192	*	*	n	NotFnd	0.94	*			650	590	0.854	
PCB-180	4.11e+07	1.05	y	45:48	0.69	4030			-	-	*	
PCB-193	3.06e+06	1.06	y	45:58	0.98	210			-	-	*	
PCB-191	1.04e+06	1.04	y	46:11	0.94	74.8			-	-	*	
PCB-170	1.71e+07	1.05	y	47:05	0.66	1750			-	-	*	
PCB-190	5.05e+06	1.03	y	47:15	0.93	367			-	-	*	
PCB-189	9.22e+05	1.08	y	48:26	1.02	67.2			-	-	*	
13C-PCB-189	2.68e+07	1.04	y	48:26	1.00	1780						89.4
PCB-202	2.67e+06	0.88	y	44:49	1.04	199			-	-	*	
PCB-201	1.94e+06	0.92	y	45:17	1.12	134			-	-	*	
PCB-204	*	*	n	NotFnd	1.09	*			676	580	0.940	
PCB-197	5.74e+05	0.91	y	45:40	1.15	38.5			-	-	*	
PCB-200	1.56e+06	0.93	y	46:26	1.10	110			-	-	*	
PCB-198	5.14e+05	0.84	y	47:37	0.73	54.3			-	-	*	
PCB-199	8.86e+06	0.90	y	47:42	0.76	899			-	-	*	
PCB-203	1.11e+07	0.89	y	47:56	0.85	1010			-	-	*	Co-elute PCB 196
PCB-196	1.11e+07	0.89	y	47:56	0.85	1010			-	-	*	Co-elute PCB 203
13C-PCB-202	2.58e+07	0.92	y	44:49	0.97	1780						89.2
13C-PCB-178	2.25e+07	1.07	y	42:19	0.83	1810						90.7
13C-PCB-138	2.99e+07	1.28	y	41:33	-	10.6						
PCB-195	4.06e+06	0.91	y	49:03	0.77	383			-	-	*	
PCB-194	1.01e+07	0.89	y	49:51	0.84	871			-	-	*	
PCB-205	6.92e+05	0.87	y	50:06	1.04	48.0			-	-	*	
13C-PCB-205	2.76e+07	0.88	y	50:05	1.31	1830						91.9
PCB-208	1.60e+06	1.33	y	49:10	1.00	110			-	-	*	
13C-PCB-208	2.89e+07	0.80	y	49:09	1.32	1900						95.0
PCB-207	6.79e+05	1.33	y	49:27	1.15	49.9			-	-	*	
PCB-206	4.00e+06	1.35	y	51:20	1.04	415			-	-	*	
13C-PCB-206	1.85e+07	0.81	y	51:18	0.97	1650						82.8
PCB-209	1.70e+06	1.17	y	52:30	1.11	151			-	-	*	
13C-PCB-209	2.02e+07	1.18	y	52:29	1.23	1430						71.5
13C-PCB-194	2.29e+07	0.91	y	49:50	-	9.21						

Analyst: _____ Date: 7/26/19

File:25JUL19Z #1-783 Acq:25-JUL-2019 18:58:54 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:12532-015-0001-SA File Text:Frontier Analytical Laboratory



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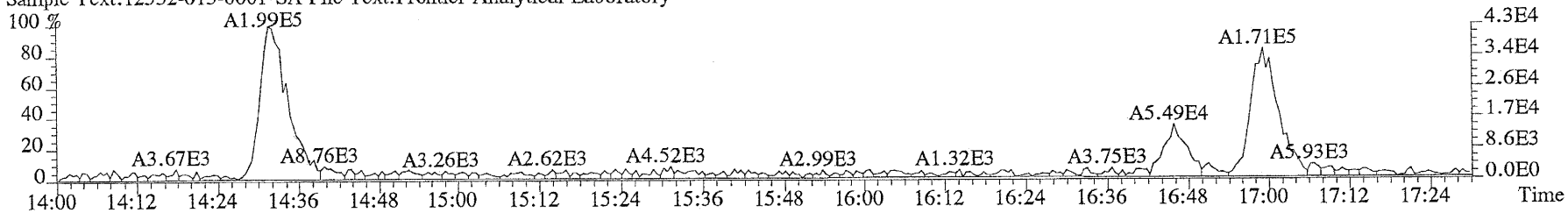

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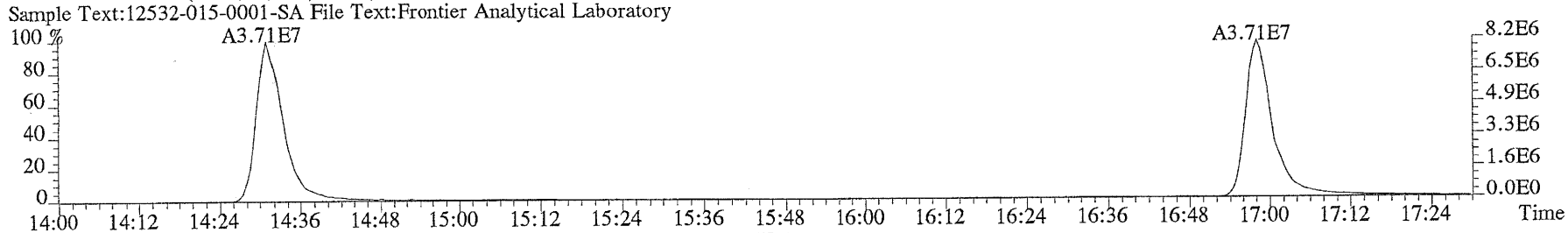

File:25JUL19Z #1-783 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
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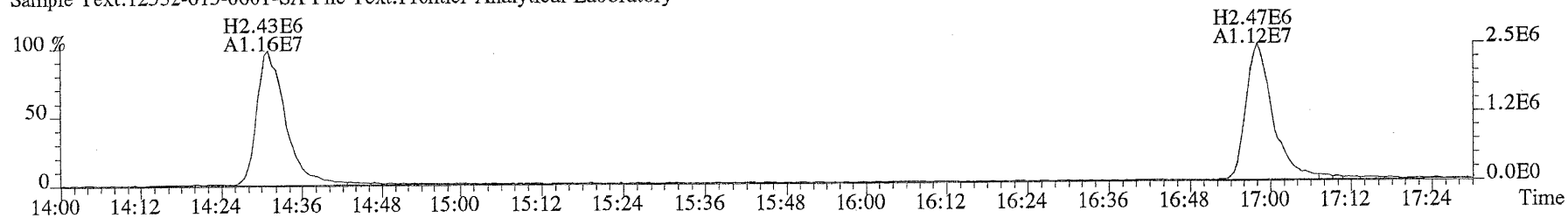
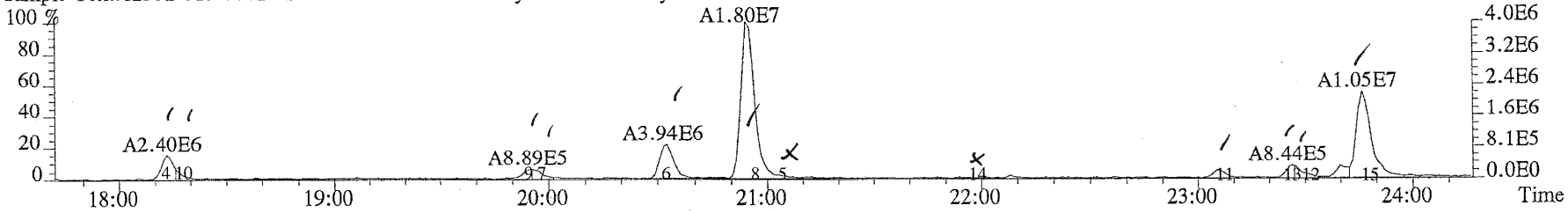
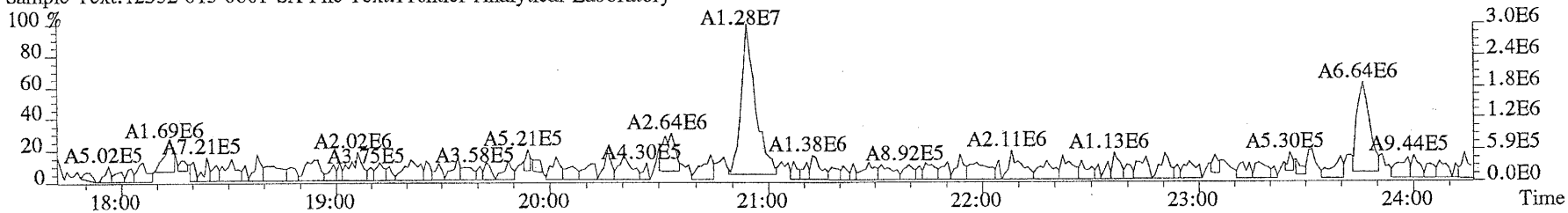
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



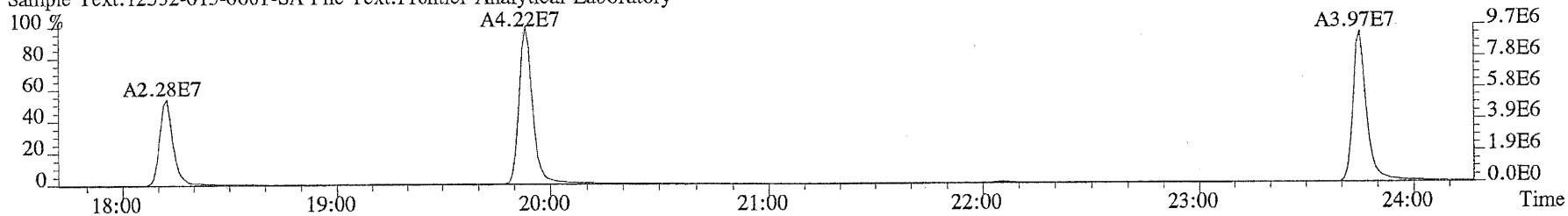
File:25JUL19Z #1-520 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



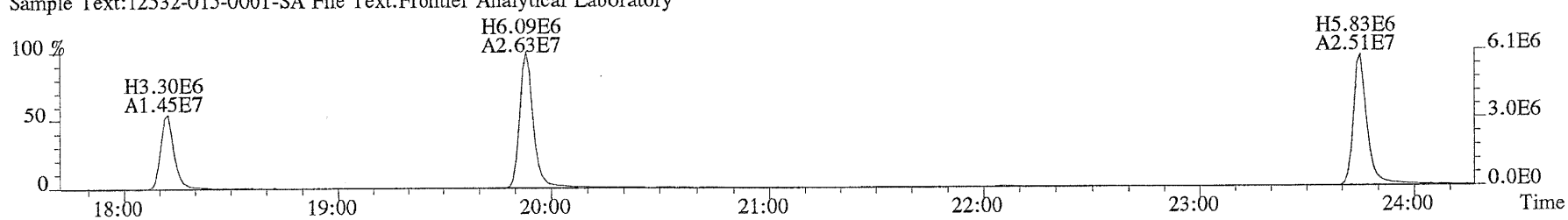
File:25JUL19Z #1-520 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



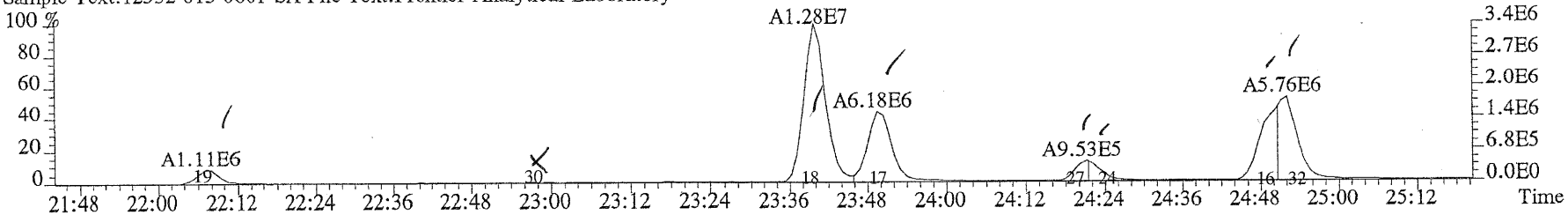
File:25JUL19Z #1-520 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



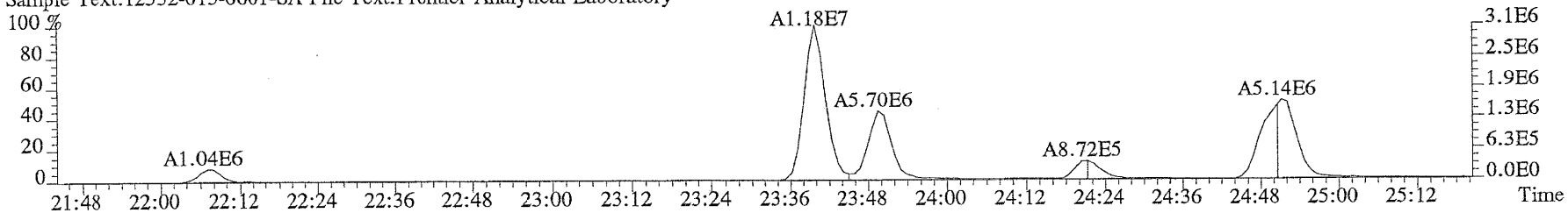
File:25JUL19Z #1-520 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



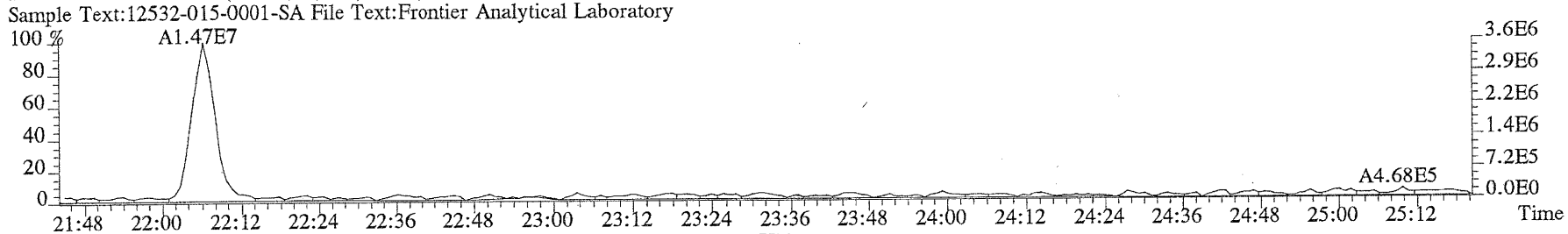
File:25JUL19Z #1-520 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



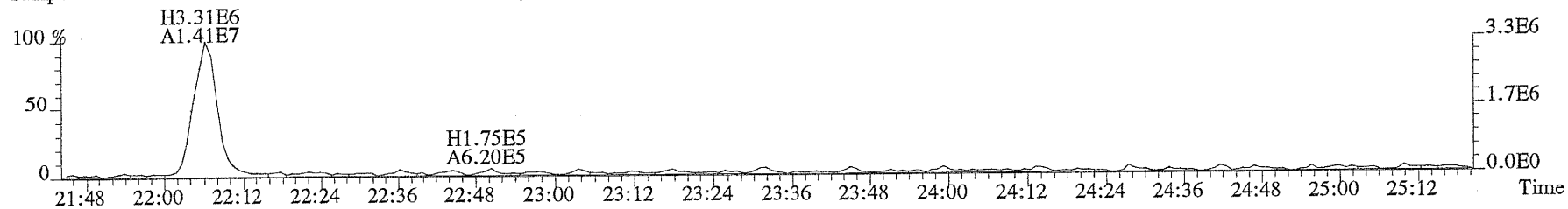
File:25JUL19Z #1-520 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



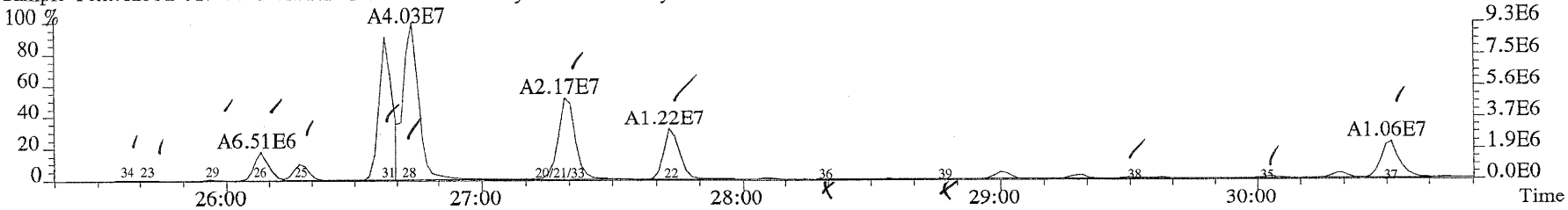
File:25JUL19Z #1-520 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



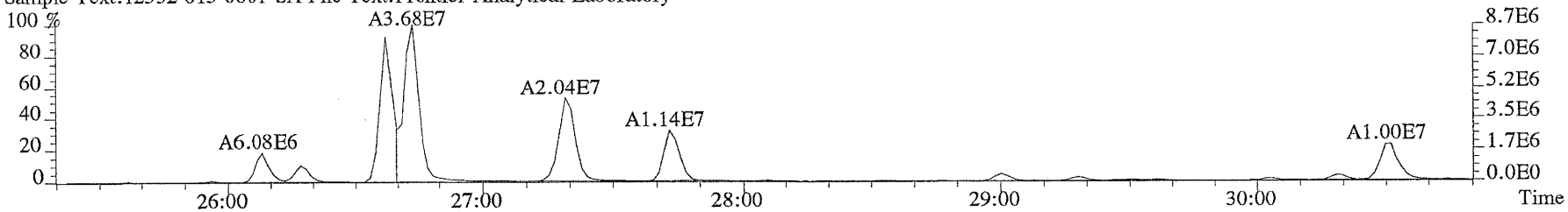
File:25JUL19Z #1-520 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



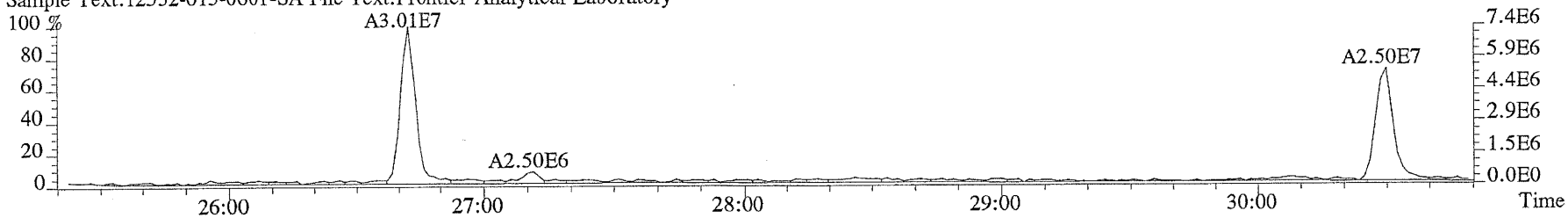
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



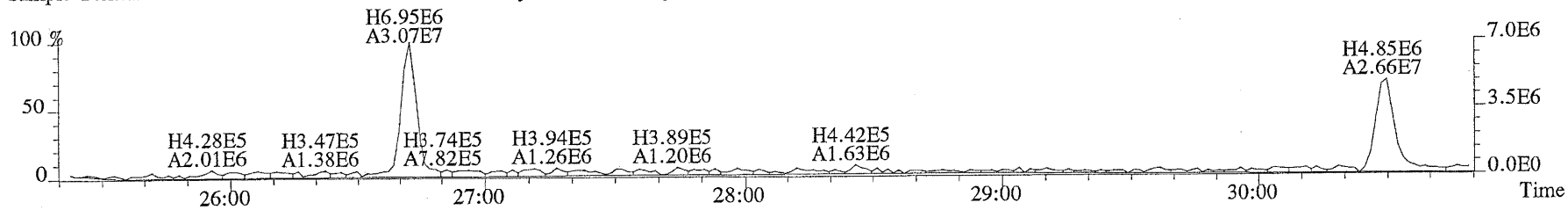
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



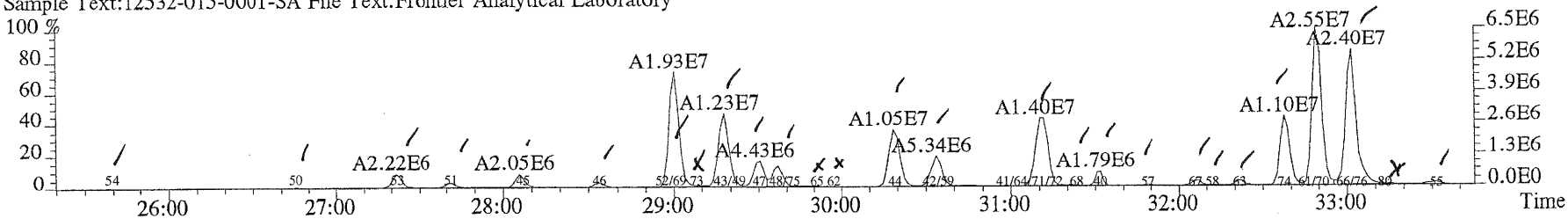
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



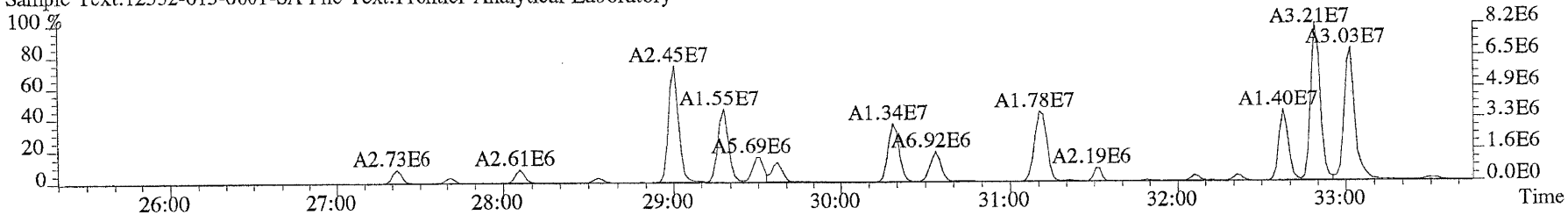
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



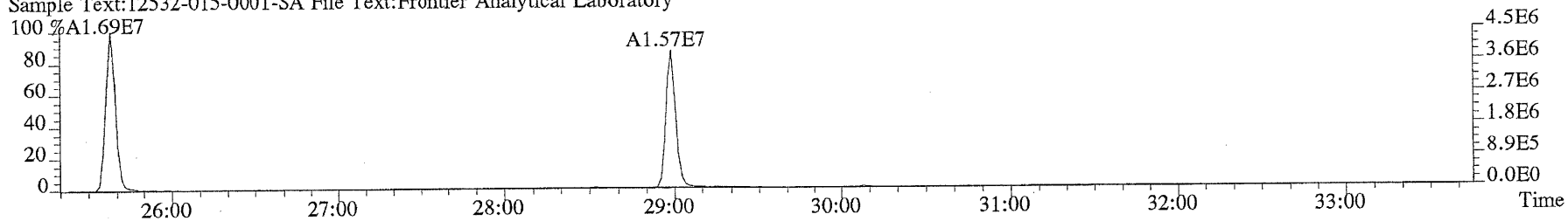
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



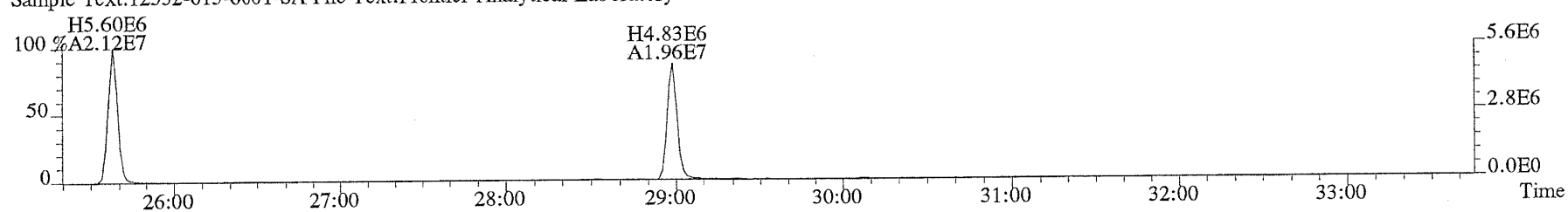
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



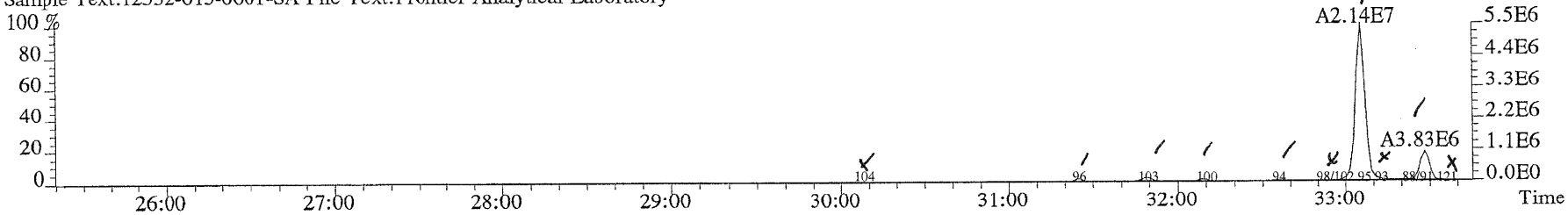
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



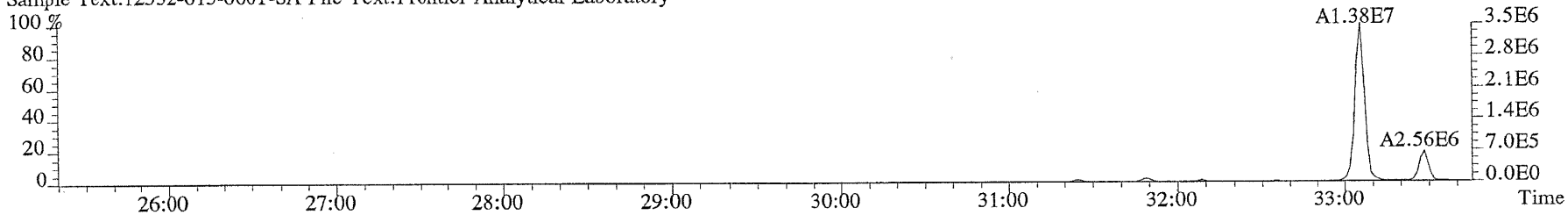
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



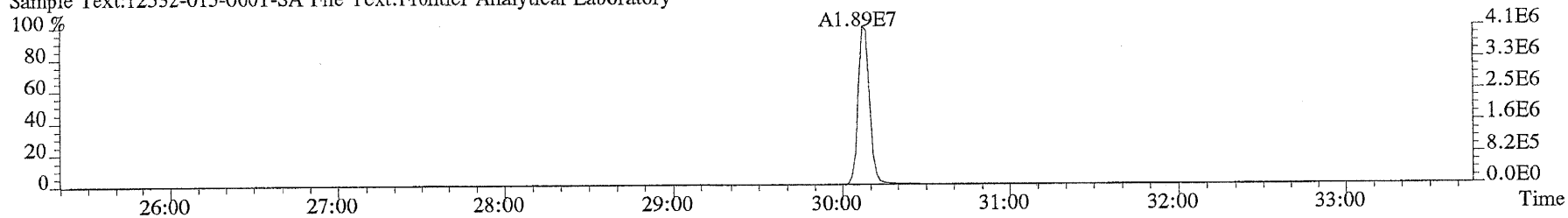
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



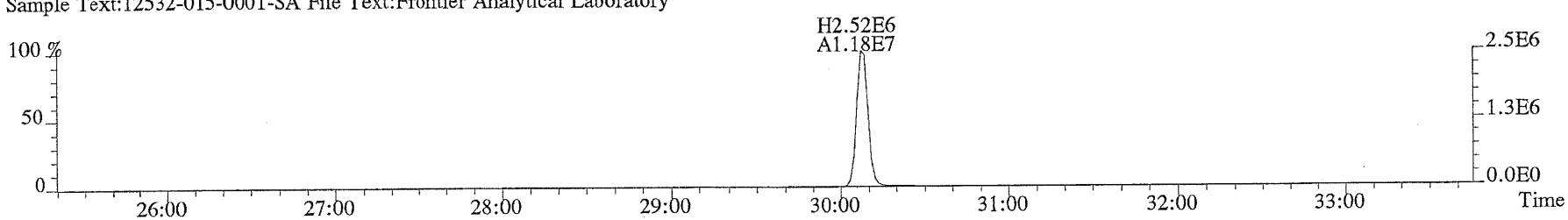
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



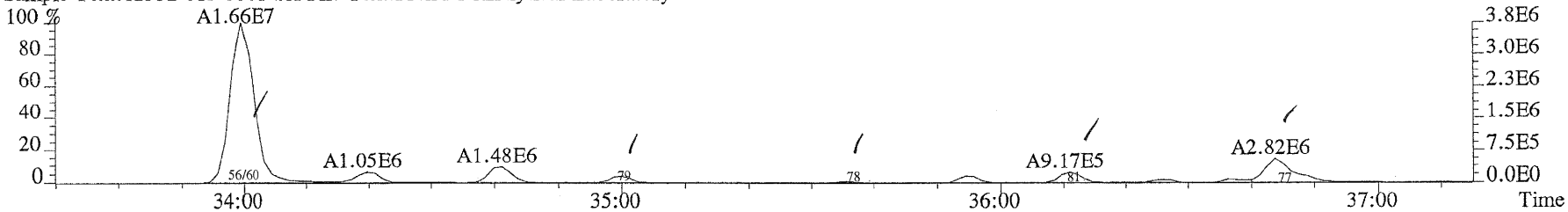
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



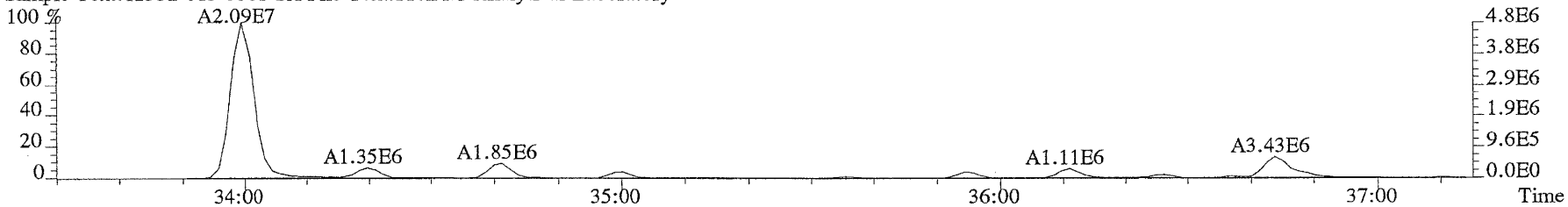
File:25JUL19Z #1-401 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



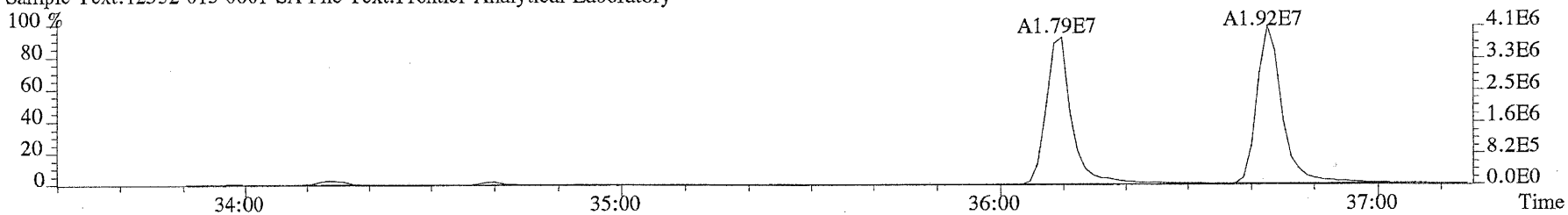
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



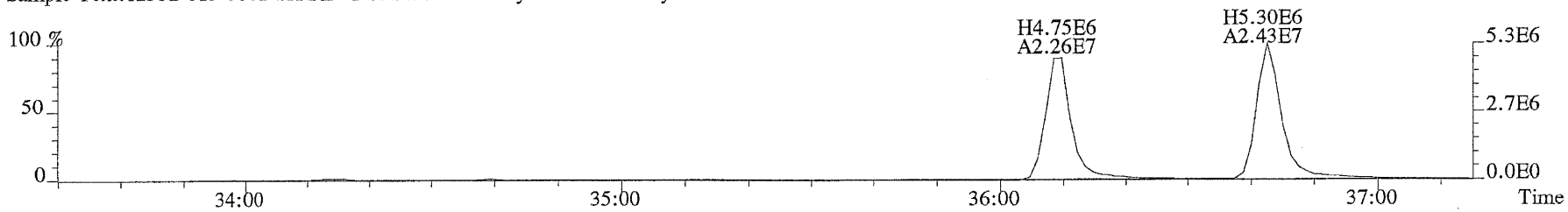
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



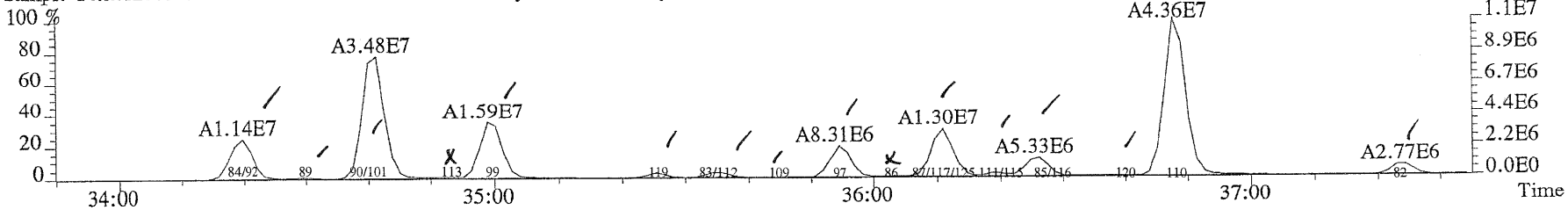
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



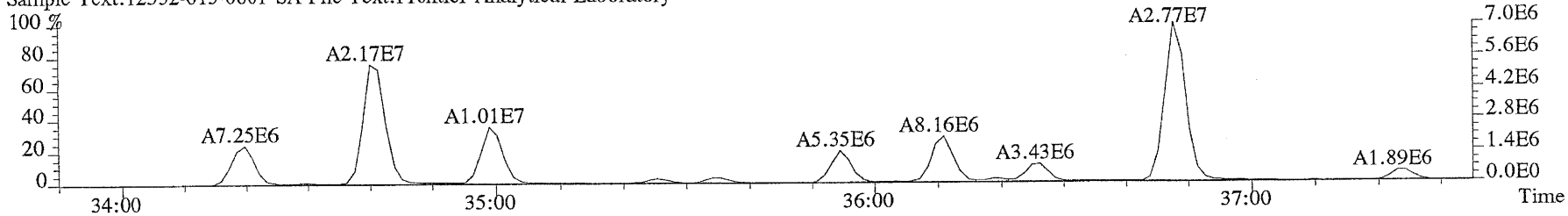
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



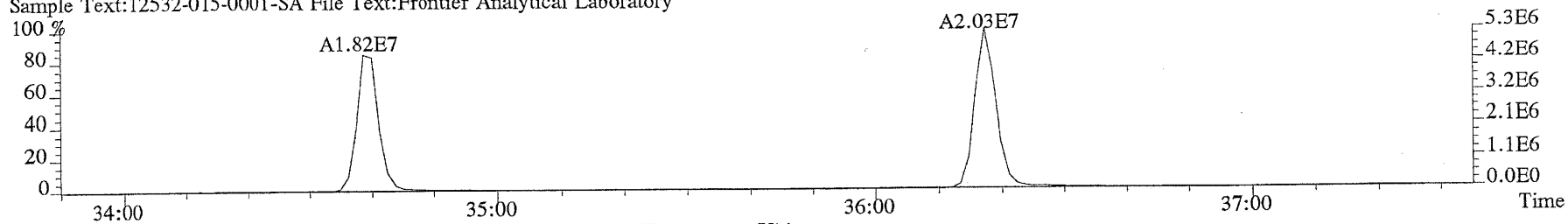
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



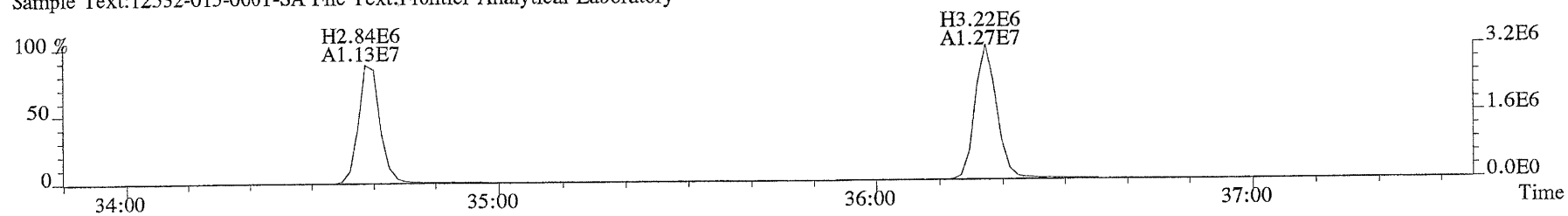
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



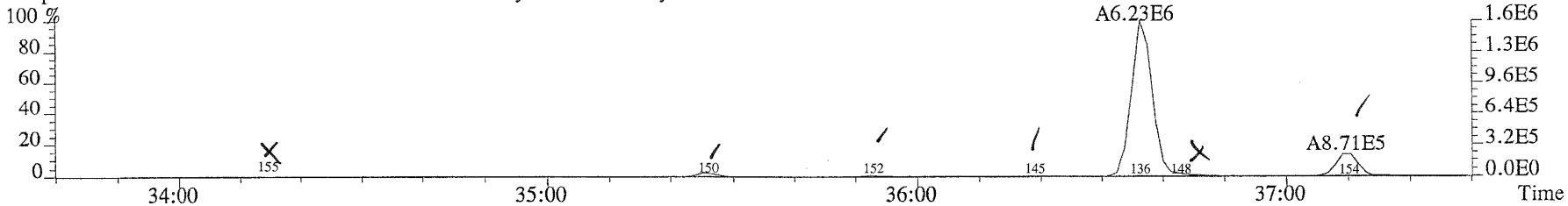
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



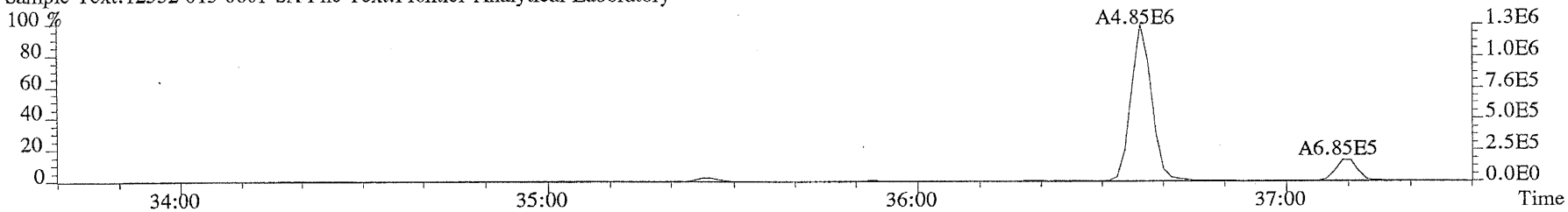
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



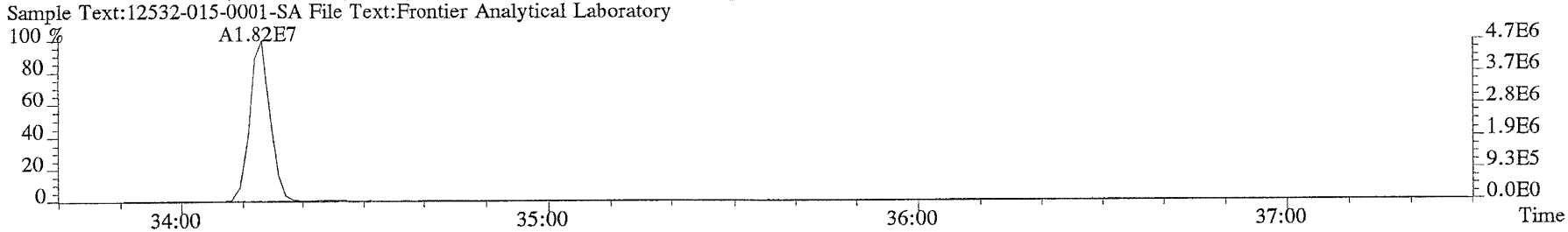
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



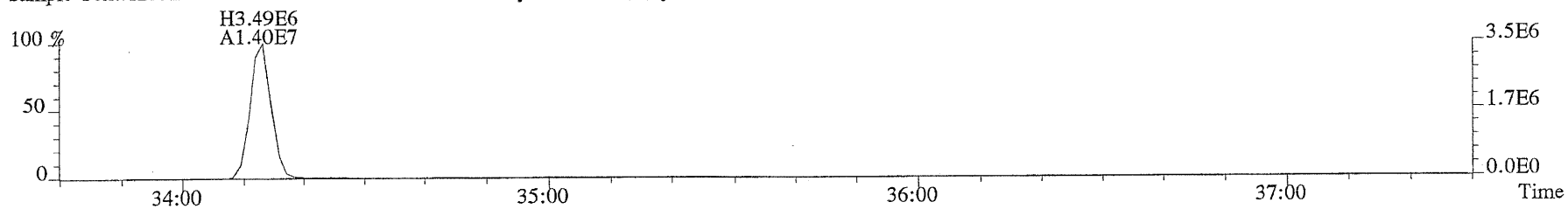
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



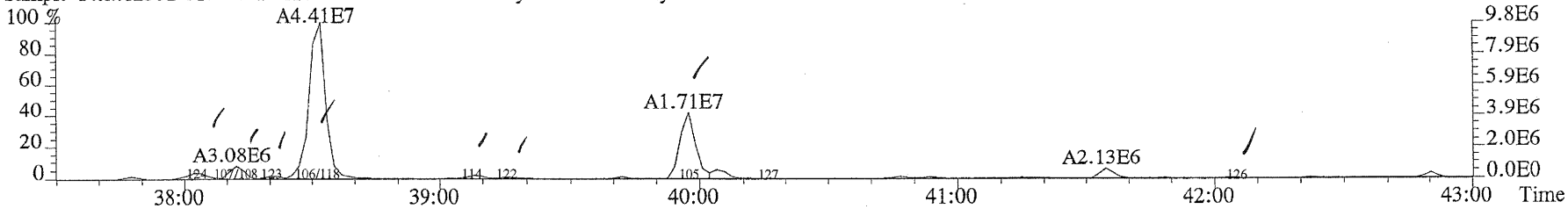
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



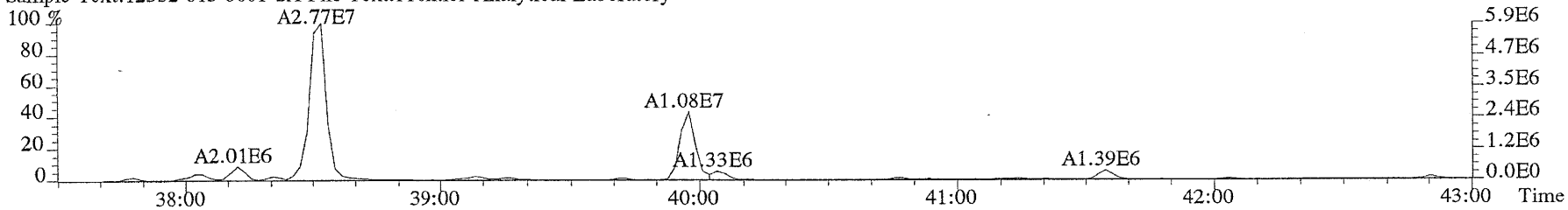
File:25JUL19Z #1-181 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



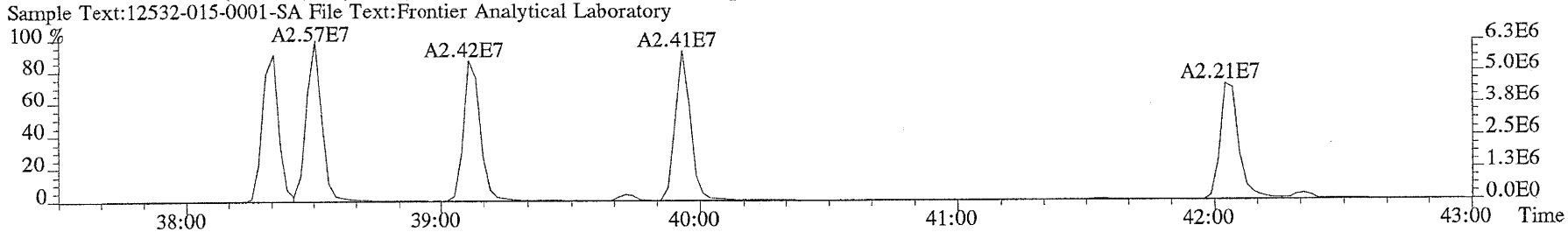
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



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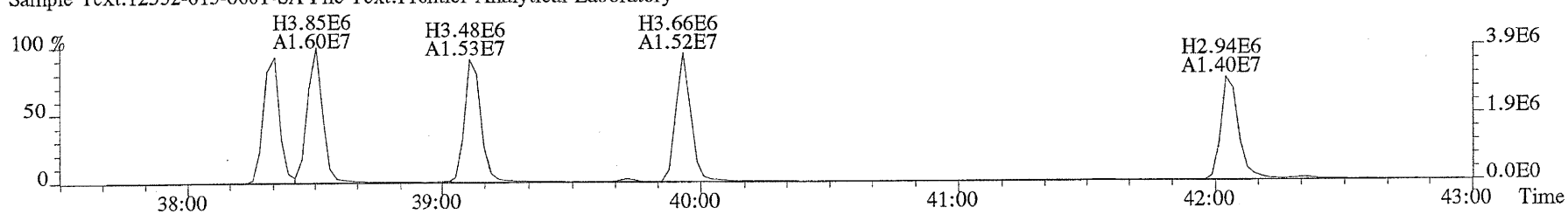
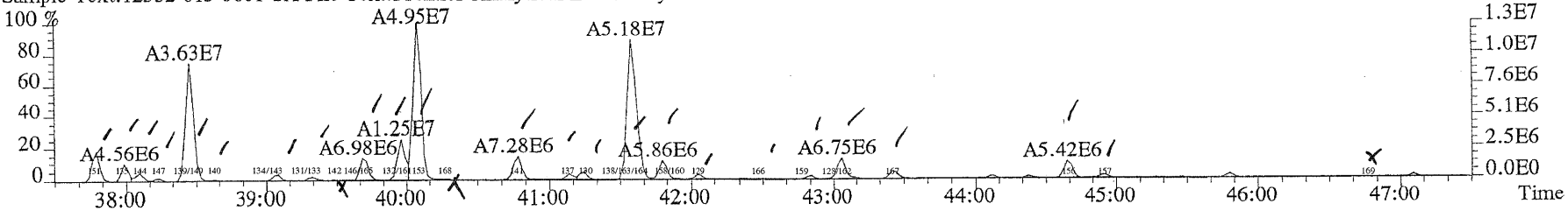
339.9178 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



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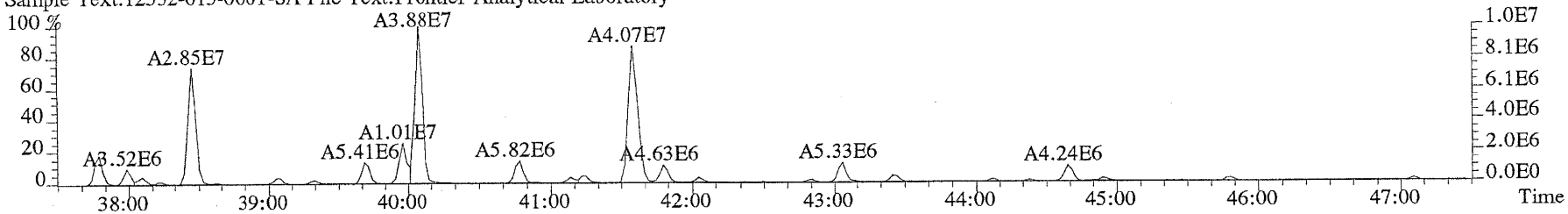
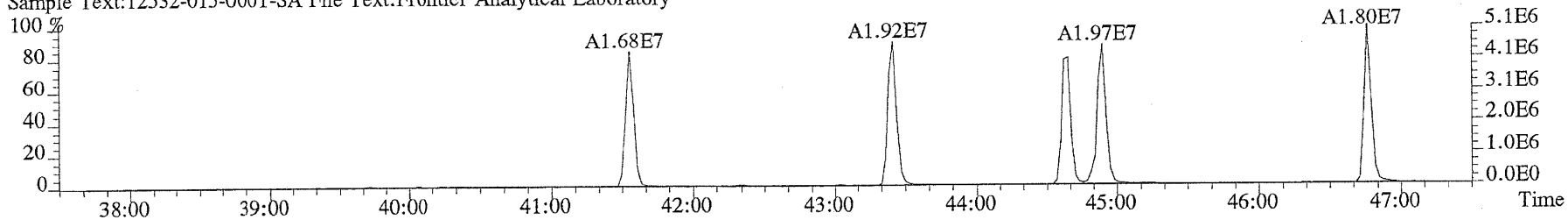
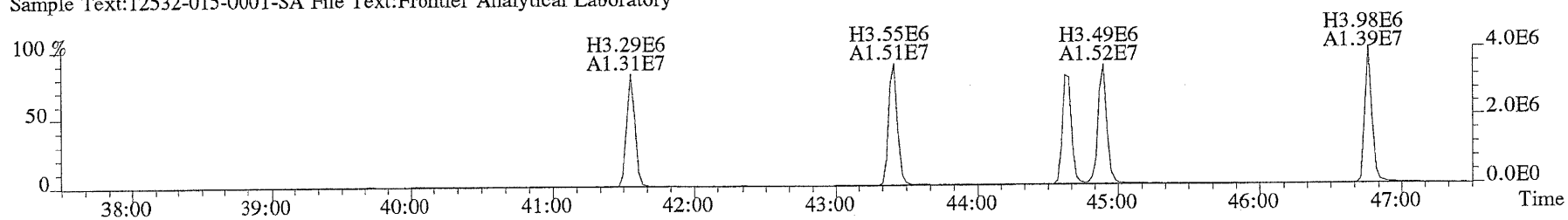
361.8385 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



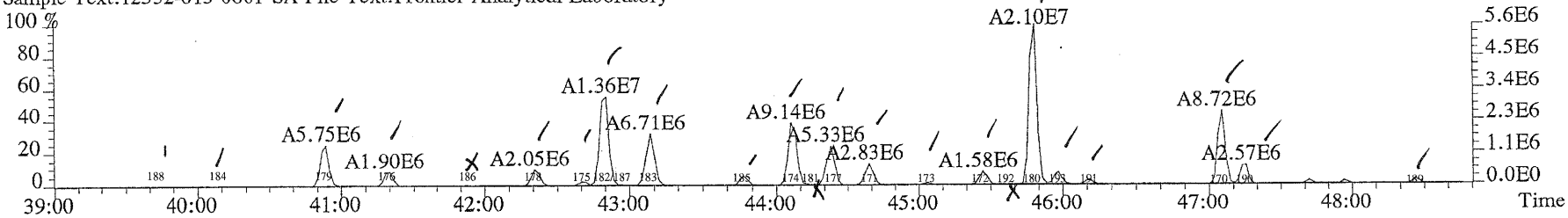
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



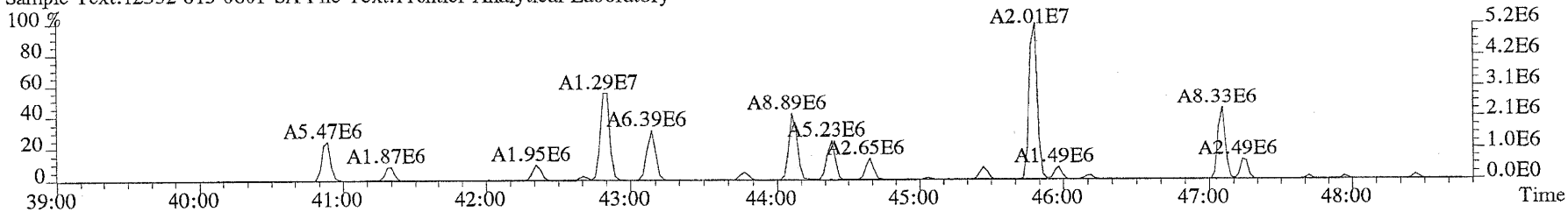
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



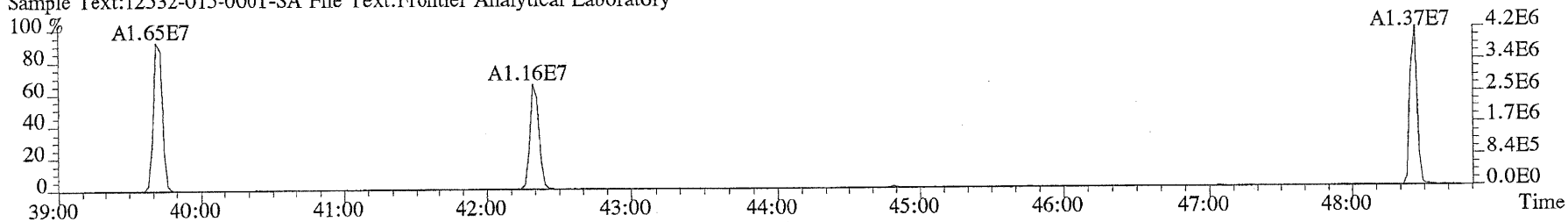
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 18:58:54 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:12532-015-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 18:58:54 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:12532-015-0001-SA File Text:Frontier Analytical Laboratory



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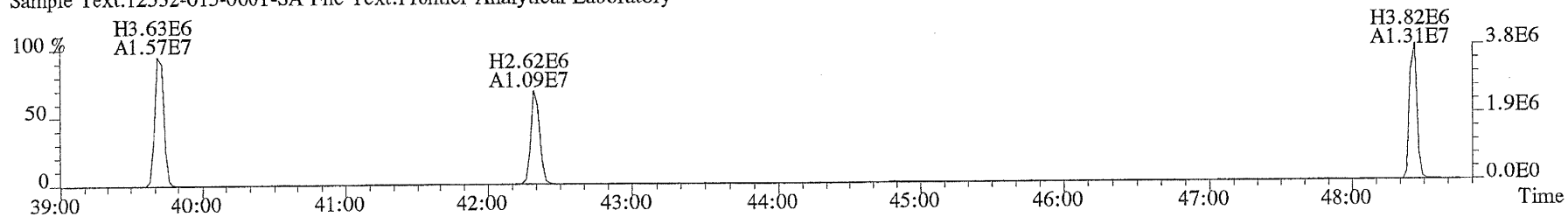
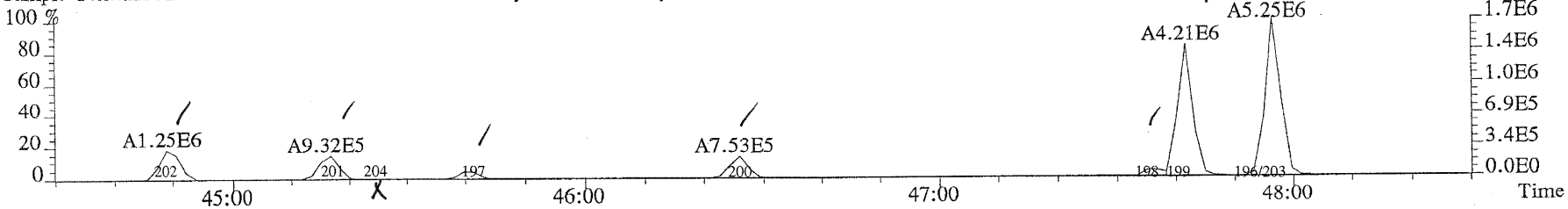
407.8398 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 18:58:54 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:12532-015-0001-SA File Text:Frontier Analytical Laboratory



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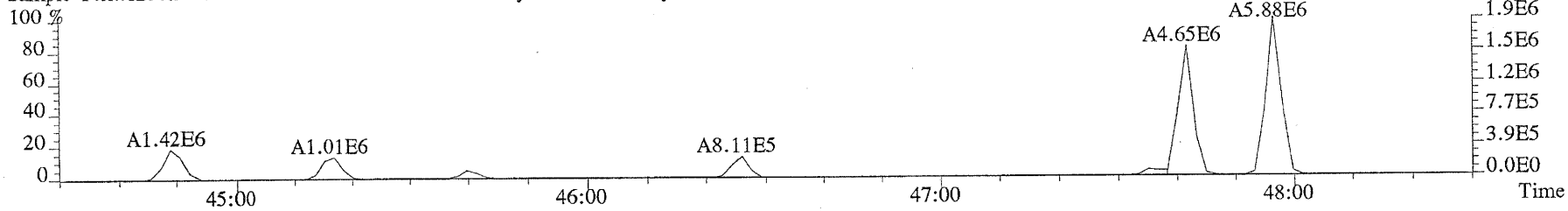
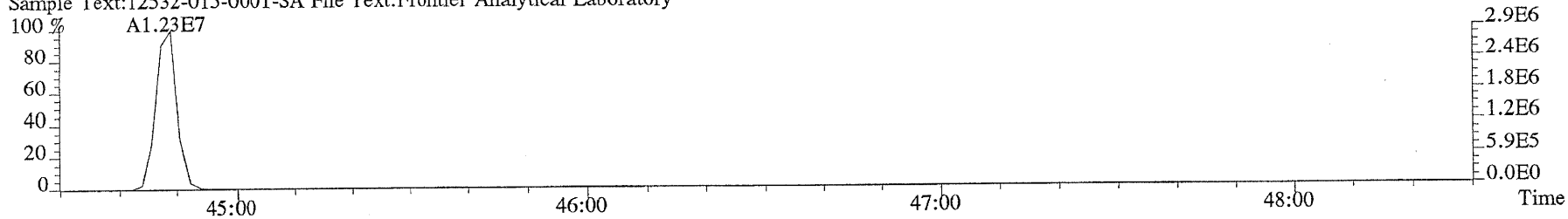
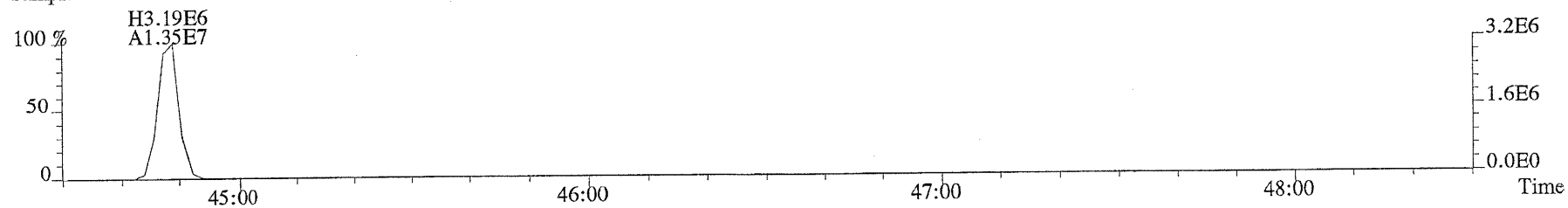
429.7606 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



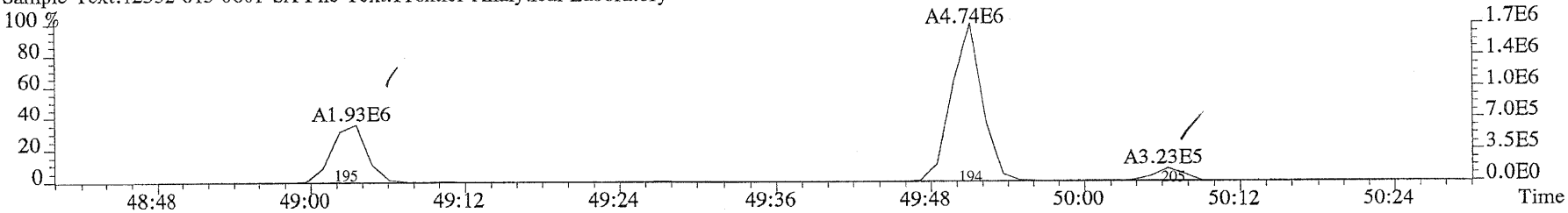
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



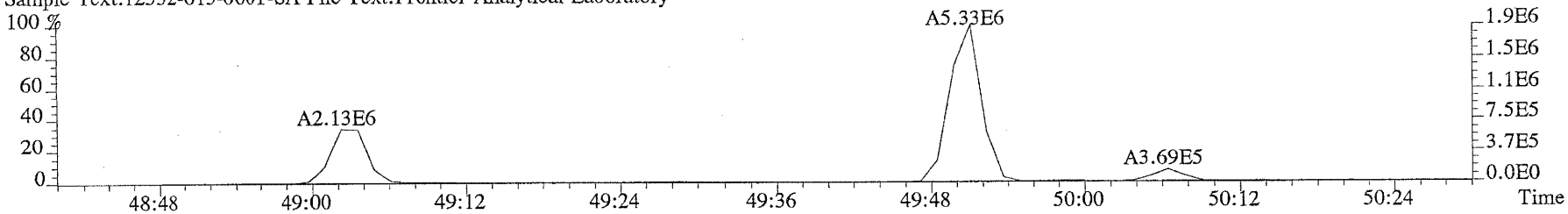
File:25JUL19Z #1-405 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



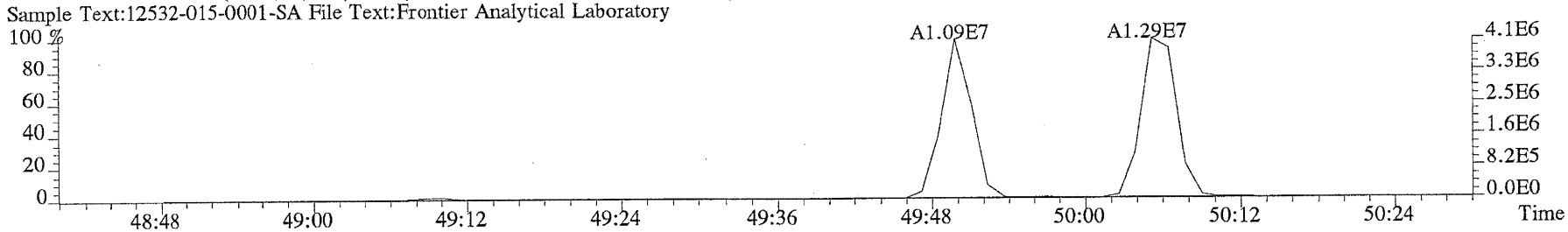
File:25JUL19Z #1-314 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



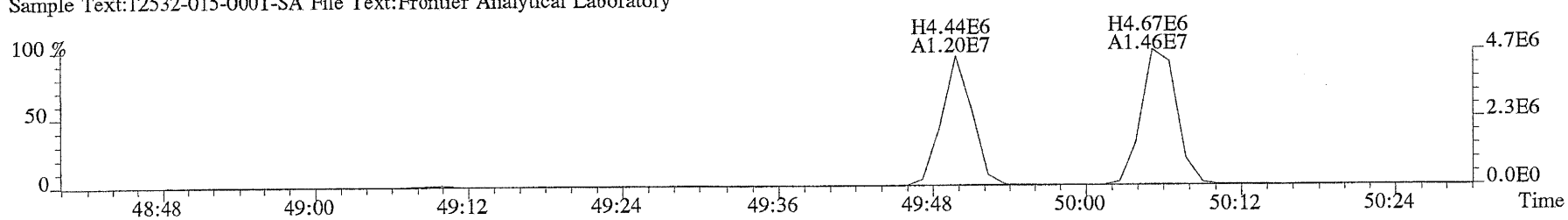
File:25JUL19Z #1-314 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



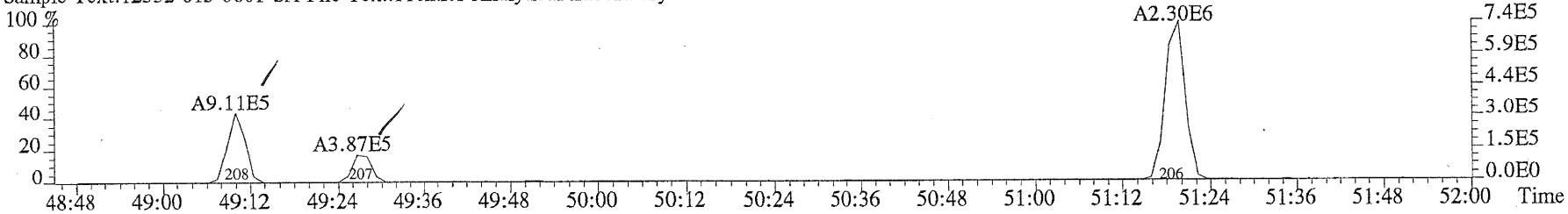
File:25JUL19Z #1-314 Acq:25-JUL-2019 18:58:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-314 Acq:25-JUL-2019 18:58:54 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:12532-015-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-314 Acq:25-JUL-2019 18:58:54 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:12532-015-0001-SA File Text:Frontier Analytical Laboratory



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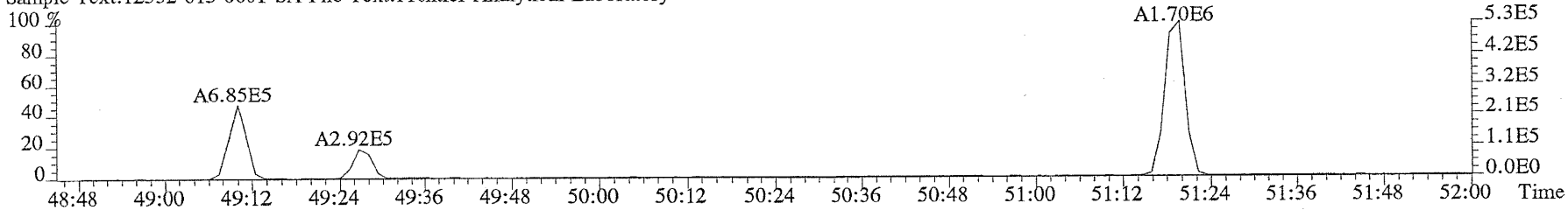
465.7187 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



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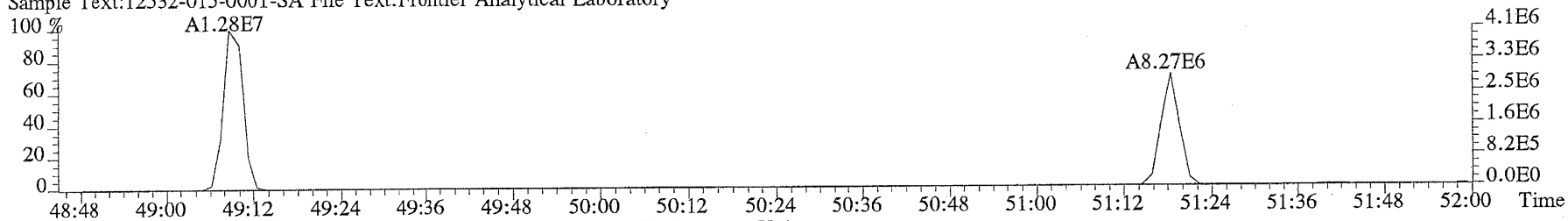
473.7648 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



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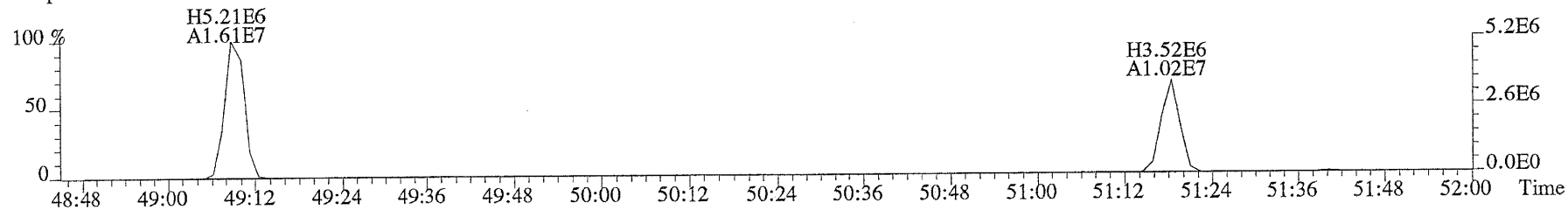
475.7619 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



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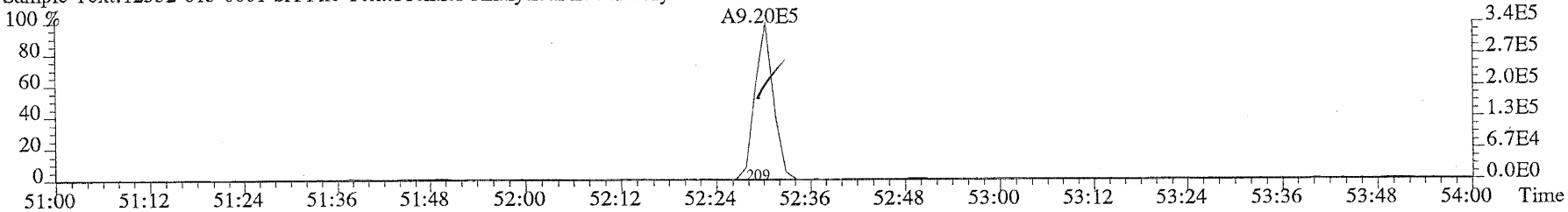
497.6826 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



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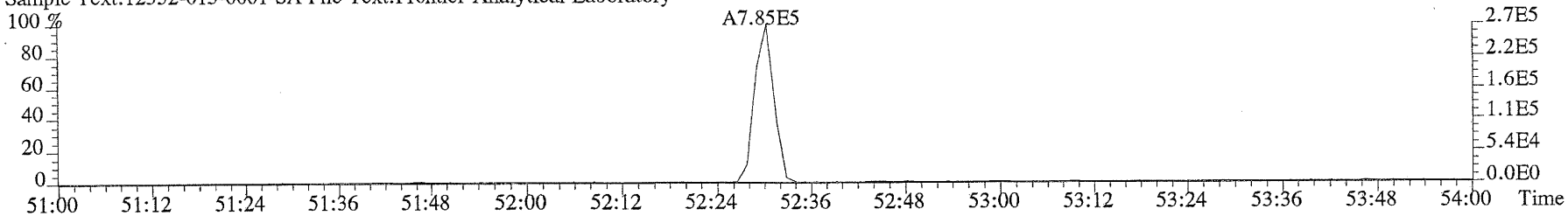
499.6797 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



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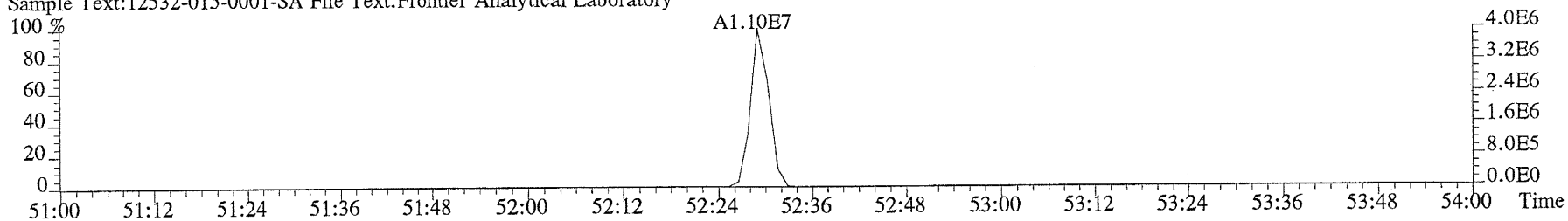
509.7229 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-015-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-314 Acq:25-JUL-2019 18:58:54 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
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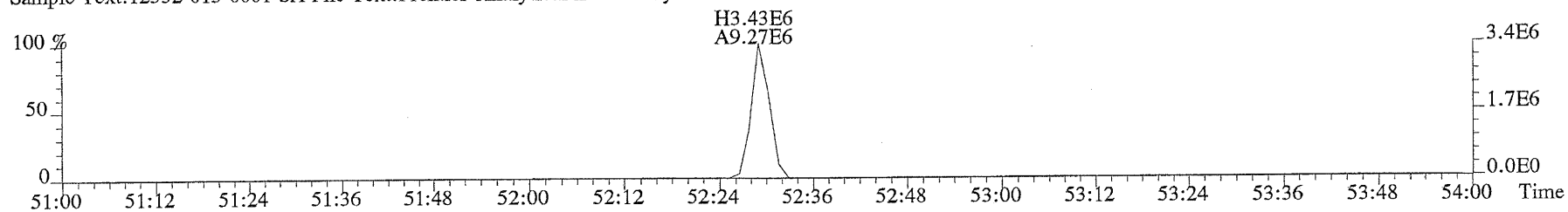


FAL ID: 12532-016-0001-SA Filename: 25JUL19Z Sam:10 Acquired: 25-JUL-19 19:57:41 ICal: DAILY209FAL4-7-25-19
Client ID: LDW-Y2-SC-ENR+AC-CAD-CORE ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 5.050

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.05e+06	3.05 y	14:33	1.17	25.1		-	-	*	
13C-PCB-1	7.07e+07	3.24 y	14:32	0.90	1620					81.8
PCB-2	2.24e+05	3.01 y	16:46	1.20	5.75		-	-	*	
PCB-3	5.55e+05	3.12 y	16:59	1.20	15.8		-	-	*	
13C-PCB-3	5.80e+07	3.18 y	16:58	0.87	1370					69.3
PCB-4	6.70e+06	1.53 y	18:13	1.10	224		-	-	*	
PCB-10	1.20e+06	1.41 y	18:17	1.40	28.0		-	-	*	
13C-PCB-4	5.40e+07	1.58 y	18:12	0.66	1700					85.6
PCB-9	1.50e+06	1.49 y	19:55	1.32	37.1		-	-	*	
PCB-7	1.76e+06	1.51 y	19:56	1.48	38.8		-	-	*	
PCB-6	6.81e+06	1.47 y	20:33	1.39	160		-	-	*	
PCB-8	3.33e+07	1.47 y	20:55	1.34	808		-	-	*	
PCB-5	*	* n	NotFnd	1.36	*		456	2880	0.812	
PCB-14	*	* n	NotFnd	1.30	*		456	2880	0.852	
PCB-11	9.26e+05	1.49 y	23:06	1.23	24.6		-	-	*	
PCB-13	8.79e+05	1.50 y	23:27	1.18	24.2		-	-	*	
PCB-12	8.42e+05	1.48 y	23:28	1.23	22.4		-	-	*	
PCB-15	9.41e+06	1.63 y	23:46	1.10	250		-	-	*	
13C-PCB-15	6.75e+07	1.61 y	23:45	0.90	1550					78.3
PCB-19	2.43e+06	1.13 y	22:08	1.19	107		-	-	*	
PCB-30	*	* n	NotFnd	1.80	*		1580	1720	0.920	
PCB-18	2.47e+07	1.06 y	23:40	1.17	1100		-	-	*	
PCB-17	1.18e+07	1.11 y	23:50	1.29	479		-	-	*	
PCB-27	1.80e+06	1.01 y	24:21	1.65	57.0		-	-	*	
PCB-24	1.72e+06	1.19 y	24:22	1.76	51.1		-	-	*	
PCB-16	1.03e+07	1.16 y	24:51	1.43	377		-	-	*	
PCB-32	9.73e+06	1.04 y	24:52	1.46	348		-	-	*	
13C-PCB-19	3.78e+07	1.10 y	22:06	0.49	1590					80.5
13C-PCB-9	9.61e+07	1.61 y	19:53	-	11.6					
PCB-34	3.15e+05	1.17 y	25:37	1.20	10.7		-	-	*	
PCB-23	1.30e+05	1.10 y	25:40	1.47	3.62	J	-	-	*	
PCB-29	4.79e+05	1.03 y	25:57	1.34	14.6		-	-	*	
PCB-26	9.97e+06	1.07 y	26:08	1.27	321		-	-	*	
PCB-25	5.94e+06	1.05 y	26:17	1.26	193		-	-	*	
PCB-31	5.31e+07	1.06 y	26:37	1.28	1700		-	-	*	
PCB-28	5.83e+07	1.08 y	26:44	1.51	1580		-	-	*	
PCB-20	3.22e+07	1.05 y	27:20	1.26	1050		-	-	*	Co-elute PCB 21/33
PCB-21	3.22e+07	1.05 y	27:20	1.26	1050		-	-	*	Co-elute PCB 20/33
PCB-33	3.22e+07	1.05 y	27:20	1.26	1050		-	-	*	Co-elute PCB 20/21
PCB-22	1.95e+07	1.07 y	27:44	1.40	569		-	-	*	
PCB-36	*	* n	NotFnd	1.25	*		1220	1210	0.996	
PCB-39	*	* n	NotFnd	1.24	*		1220	1210	0.998	
PCB-38	4.08e+05	0.93 y	29:30	1.29	12.9		-	-	*	
PCB-35	6.06e+05	1.09 y	30:03	1.13	21.9		-	-	*	
PCB-37	8.72e+06	1.08 y	30:31	1.19	300		-	-	*	
13C-PCB-37	4.83e+07	1.06 y	30:30	1.40	1510					76.4

PCB-54	1.32e+05	0.77	y	25:39	1.22	4.11		-	-	*	
PCB-50	1.14e+05	0.72	y	26:46	0.89	4.92		-	-	*	
PCB-53	3.99e+06	0.78	y	27:21	0.86	176		-	-	*	
PCB-51	1.51e+06	0.79	y	27:42	0.92	62.4		-	-	*	
PCB-45	3.68e+06	0.80	y	28:06	0.74	189		-	-	*	
PCB-46	1.44e+06	0.75	y	28:34	0.70	77.9		-	-	*	
PCB-52	3.34e+07	0.78	y	29:00	0.90	1410		-	-	*	Co-elute PCB 69
PCB-69	3.34e+07	0.78	y	29:00	0.90	1410		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.12	*		970	1050	0.653	
PCB-43	2.16e+07	0.77	y	29:18	0.78	1060		-	-	*	Co-elute PCB 49
PCB-49	2.16e+07	0.77	y	29:18	0.78	1060		-	-	*	Co-elute PCB 43
PCB-47	7.97e+06	0.76	y	29:30	0.85	358		-	-	*	
PCB-48	6.84e+06	0.76	y	29:37	1.01	258		-	-	*	Co-elute PCB 75
PCB-75	6.84e+06	0.76	y	29:37	1.01	258		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*		970	1050	0.718	
PCB-62	*	*	n	NotFnd	1.07	*		970	1050	0.681	
PCB-44	1.85e+07	0.78	y	30:18	0.67	1060		-	-	*	
PCB-42	9.59e+06	0.77	y	30:34	0.89	410		-	-	*	Co-elute PCB 59
PCB-59	9.59e+06	0.77	y	30:34	0.89	410		-	-	*	Co-elute PCB 42
PCB-72	2.39e+07	0.78	y	31:10	1.00	907		-	-	*	Co-elute PCB 41/71/64
PCB-41	2.39e+07	0.78	y	31:10	1.00	907		-	-	*	Co-elute PCB 72/71/64
PCB-71	2.39e+07	0.78	y	31:10	1.00	907		-	-	*	Co-elute PCB 72/41/64
PCB-64	2.39e+07	0.78	y	31:10	1.00	907		-	-	*	Co-elute PCB 72/41/71
PCB-68	2.61e+05	0.77	y	31:27	1.14	8.73		-	-	*	
PCB-40	2.99e+06	0.80	y	31:36	0.61	187		-	-	*	
PCB-57	2.88e+05	0.69	y	31:51	1.07	10.2		-	-	*	
PCB-67	1.43e+06	0.76	y	32:07	0.99	54.6		-	-	*	
PCB-58	1.37e+05	0.70	y	32:14	1.11	4.70		-	-	*	
PCB-63	1.51e+06	0.80	y	32:22	1.05	54.9		-	-	*	
PCB-74	1.74e+07	0.79	y	32:39	1.02	649		-	-	*	
PCB-61	3.91e+07	0.78	y	32:50	0.97	1540		-	-	*	Co-elute PCB 70
PCB-70	3.91e+07	0.78	y	32:50	0.97	1540		-	-	*	Co-elute PCB 61
PCB-76	3.70e+07	0.77	y	33:02	1.05	1340		-	-	*	Co-elute PCB 66
PCB-66	3.70e+07	0.77	y	33:02	1.05	1340		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.24	*		970	1070	0.594	
PCB-55	1.03e+06	0.67	y	33:32	1.06	37.1		-	-	*	
13C-PCB-54	5.20e+07	0.80	y	25:38	1.36	1680					84.7
PCB-104	*	*	n	NotFnd	1.10	*		680	544	0.622	
PCB-96	2.67e+05	1.49	y	31:28	1.04	12.7		-	-	*	
PCB-103	5.54e+05	1.49	y	31:51	0.84	32.4		-	-	*	
PCB-100	3.16e+05	1.54	y	32:10	0.85	18.3		-	-	*	
PCB-94	1.63e+05	1.47	y	32:35	0.69	11.8		-	-	*	
PCB-98	*	*	n	NotFnd	0.69	*		680	544	0.991	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.69	*		680	544	0.991	Co-elute PCB 98
PCB-95	2.54e+07	1.55	y	33:05	0.77	1630		-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*		680	544	0.878	
PCB-88	4.58e+06	1.48	y	33:28	0.83	271		-	-	*	Co-elute PCB 91
PCB-91	4.58e+06	1.48	y	33:28	0.83	271		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.89	*		680	544	0.768	
13C-PCB-104	4.02e+07	1.60	y	30:07	1.06	1650					83.6
13C-PCB-28	8.24e+07	1.05	y	26:42	1.72	2100					106
13C-PCB-52	4.52e+07	0.81	y	28:59	-	11.9					

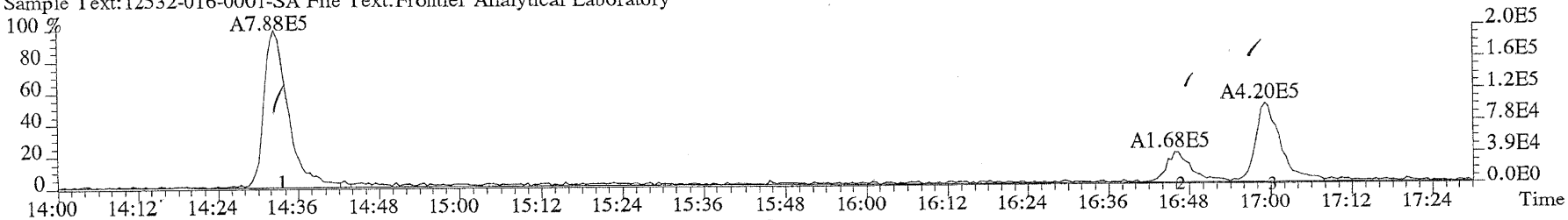
PCB-56	2.57e+07	0.80	y	33:59	1.17	972			-	-	*	Co-elute PCB 60
PCB-60	2.57e+07	0.80	y	33:59	1.17	972			-	-	*	Co-elute PCB 56
PCB-79	9.73e+05	0.78	y	35:00	1.22	35.5			-	-	*	
PCB-78	2.17e+05	0.76	y	35:36	1.16	8.28			-	-	*	
PCB-81	1.38e+06	0.77	y	36:11	1.25	49.0			-	-	*	
13C-PCB-81	4.46e+07	0.79	y	36:10	1.37	1600						80.6
PCB-77	2.68e+06	0.82	y	36:44	1.06	113			-	-	*	
13C-PCB-77	4.45e+07	0.80	y	36:43	1.44	1510						76.5
PCB-155	*	*	n	NotFnd	1.04	*			908	680	0.579	
PCB-150	1.92e+05	1.27	y	35:27	0.95	8.57			-	-	*	
PCB-152	5.46e+04	1.19	y	35:53	0.90	2.56		J	-	-	*	
PCB-145	*	*	n	NotFnd	0.93	*			908	680	0.648	
PCB-136	7.71e+06	1.26	y	36:36	0.93	349			-	-	*	
PCB-148	*	*	n	NotFnd	0.62	*			908	680	0.964	
PCB-154	1.08e+06	1.26	y	37:10	0.75	61.0			-	-	*	
13C-PCB-155	4.69e+07	1.28	y	34:13	1.44	1590						80.5
13C-PCB-111	4.82e+07	1.59	y	36:17	1.22	1930						97.5
13C-PCB-101	4.05e+07	1.59	y	34:40	-	13.1						
PCB-84	1.35e+07	1.54	y	34:20	0.83	624			-	-	*	Co-elute PCB 92
PCB-92	1.35e+07	1.54	y	34:20	0.83	624			-	-	*	Co-elute PCB 84
PCB-89	4.76e+05	1.56	y	34:31	0.81	22.5			-	-	*	
PCB-90	4.13e+07	1.60	y	34:41	0.89	1790			-	-	*	Co-elute PCB 101
PCB-101	4.13e+07	1.60	y	34:41	0.89	1790			-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.02	*			1210	1050	0.888	
PCB-99	1.95e+07	1.55	y	35:00	0.98	766			-	-	*	
PCB-119	1.35e+06	1.35	y	35:25	1.13	45.7			-	-	*	
PCB-83	1.65e+06	1.39	y	35:36	0.90	70.4			-	-	*	Co-elute PCB 112
PCB-112	1.65e+06	1.39	y	35:36	0.90	70.4			-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.08	*			1210	1050	0.838	
PCB-97	9.99e+06	1.55	y	35:55	0.73	528			-	-	*	
PCB-86	2.32e+05	1.43	y	36:03	0.79	11.2			-	-	*	
PCB-125	1.52e+07	1.55	y	36:11	0.97	600			-	-	*	Co-elute PCB 87/117
PCB-87	1.52e+07	1.55	y	36:11	0.97	600			-	-	*	Co-elute PCB 125/117
PCB-117	1.52e+07	1.55	y	36:11	0.97	600			-	-	*	Co-elute PCB 125/87
PCB-111	1.29e+06	1.51	y	36:20	1.13	43.7			-	-	*	Co-elute PCB 115
PCB-115	1.29e+06	1.51	y	36:20	1.13	43.7			-	-	*	Co-elute PCB 111
PCB-85	6.06e+06	1.53	y	36:26	0.97	239			-	-	*	Co-elute PCB 116
PCB-116	6.06e+06	1.53	y	36:26	0.97	239			-	-	*	Co-elute PCB 85
PCB-120	3.21e+05	1.46	y	36:38	1.18	10.5			-	-	*	
PCB-110	4.89e+07	1.58	y	36:48	1.10	1700			-	-	*	
PCB-82	3.27e+06	1.55	y	37:24	0.62	202			-	-	*	
PCB-124	2.25e+06	1.58	y	38:04	1.10	78.3			-	-	*	
PCB-108	3.32e+06	1.52	y	38:12	1.20	106			-	-	*	Co-elute PCB 107
PCB-107	3.32e+06	1.52	y	38:12	1.20	106			-	-	*	Co-elute PCB 108
PCB-123	8.25e+05	1.56	y	38:20	1.01	32.5			-	-	*	
13C-PCB-123	4.98e+07	1.58	y	38:20	1.31	1810						91.6
PCB-118	4.20e+07	1.58	y	38:32	1.09	1430			-	-	*	Co-elute PCB 106
PCB-106	4.20e+07	1.58	y	38:32	1.09	1430			-	-	*	Co-elute PCB 118
13C-PCB-118	5.34e+07	1.60	y	38:30	1.46	1750						88.5
PCB-114	1.35e+06	1.51	y	39:08	1.14	44.6			-	-	*	
13C-PCB-114	5.26e+07	1.57	y	39:08	1.34	1880						95.2
PCB-122	6.46e+05	1.48	y	39:16	1.16	21.4			-	-	*	
PCB-105	1.79e+07	1.57	y	39:57	1.19	584			-	-	*	
13C-PCB-105	5.08e+07	1.58	y	39:56	1.32	1850						93.4

PCB-127	*	*	n	NotFnd	1.06	*	1480	1050	0.962	
PCB-126	2.61e+05	1.37	y	42:04	1.13	11.5	-	-	*	
13C-PCB-126	3.99e+07	1.58	y	42:03	1.20	1600				80.7
PCB-151	1.15e+07	1.26	y	37:47	0.98	547	-	-	*	
PCB-135	5.87e+06	1.24	y	37:59	0.92	295	-	-	*	
PCB-144	3.14e+06	1.27	y	38:06	1.05	138	-	-	*	
PCB-147	1.03e+06	1.36	y	38:14	1.09	43.8	-	-	*	
PCB-139	4.54e+07	1.25	y	38:27	1.08	1960	-	-	*	Co-elute PCB 149
PCB-149	4.54e+07	1.25	y	38:27	1.08	1960	-	-	*	Co-elute PCB 139
PCB-140	4.10e+05	1.39	y	38:38	1.07	17.8	-	-	*	
PCB-143	2.31e+06	1.29	y	39:05	0.86	126	-	-	*	Co-elute PCB 134
PCB-134	2.31e+06	1.29	y	39:05	0.86	126	-	-	*	Co-elute PCB 143
PCB-131	1.31e+06	1.23	y	39:20	0.85	71.3	-	-	*	Co-elute PCB 133
PCB-133	1.31e+06	1.23	y	39:20	0.85	71.3	-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.86	*	940	810	0.975	
PCB-165	8.34e+06	1.22	y	39:41	1.17	332	-	-	*	Co-elute PCB 146
PCB-146	8.34e+06	1.22	y	39:41	1.17	332	-	-	*	Co-elute PCB 165
PCB-161	1.50e+07	1.22	y	39:57	1.07	651	-	-	*	Co-elute PCB 132
PCB-132	1.50e+07	1.22	y	39:57	1.07	651	-	-	*	Co-elute PCB 161
PCB-153	5.94e+07	1.26	y	40:04	1.16	2380	-	-	*	
PCB-168	*	*	n	NotFnd	1.27	*	940	810	0.662	
PCB-141	8.91e+06	1.26	y	40:47	0.93	447	-	-	*	
PCB-137	2.13e+06	1.24	y	41:08	0.87	114	-	-	*	
PCB-130	2.69e+06	1.28	y	41:15	0.85	147	-	-	*	
PCB-138	6.19e+07	1.26	y	41:35	1.13	2550	-	-	*	Co-elute PCB 163/164
PCB-163	6.19e+07	1.26	y	41:35	1.13	2550	-	-	*	Co-elute PCB 138/164
PCB-164	6.19e+07	1.26	y	41:35	1.13	2550	-	-	*	Co-elute PCB 138/163
PCB-158	7.24e+06	1.28	y	41:48	1.27	265	-	-	*	Co-elute PCB 160
PCB-160	7.24e+06	1.28	y	41:48	1.27	265	-	-	*	Co-elute PCB 158
PCB-129	1.77e+06	1.24	y	42:03	0.79	104	-	-	*	
PCB-166	2.17e+05	1.12	y	42:31	1.20	8.41	-	-	*	
PCB-159	1.03e+06	1.38	y	42:50	1.31	36.6	-	-	*	
PCB-128	8.01e+06	1.24	y	43:03	1.03	362	-	-	*	Co-elute PCB 162
PCB-162	8.01e+06	1.24	y	43:03	1.03	362	-	-	*	Co-elute PCB 128
PCB-167	2.32e+06	1.28	y	43:25	1.13	92.5	-	-	*	
13C-PCB-167	4.41e+07	1.28	y	43:25	1.15	1830				92.6
PCB-156	6.03e+06	1.24	y	44:39	1.23	222	-	-	*	
13C-PCB-156	4.38e+07	1.28	y	44:37	1.11	1890				95.2
PCB-157	1.28e+06	1.29	y	44:54	1.15	47.8	-	-	*	
13C-PCB-157	4.61e+07	1.26	y	44:54	1.14	1930				97.6
PCB-169	*	*	n	NotFnd	1.11	*	940	810	0.780	
13C-PCB-169	3.65e+07	1.29	y	46:46	1.08	1620				81.8

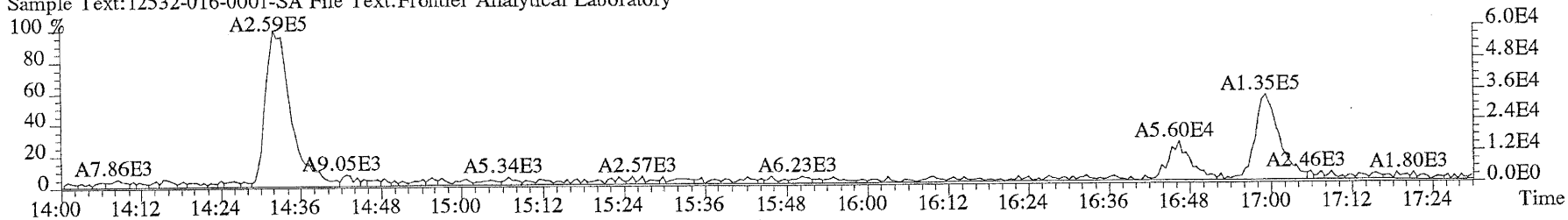
PCB-188	4.87e+04	1.13	y	39:44	1.06	2.03	J		-	-	*	
13C-PCB-188	4.48e+07	1.06	y	39:41	1.26	1700						85.8
PCB-184	*	*	n	NotFnd	1.24	*			730	712	0.550	
PCB-179	7.57e+06	1.05	y	40:53	1.13	328			-	-	*	
PCB-176	2.52e+06	1.05	y	41:20	1.08	114			-	-	*	
PCB-186	*	*	n	NotFnd	1.13	*			730	712	0.604	
PCB-178	2.60e+06	1.08	y	42:21	0.76	168			-	-	*	
PCB-175	5.64e+05	0.95	y	42:40	0.77	35.9			-	-	*	
PCB-187	1.74e+07	1.05	y	42:49	0.86	994			-	-	*	Co-elute PCB 182
PCB-182	1.74e+07	1.05	y	42:49	0.86	994			-	-	*	Co-elute PCB 187
PCB-183	8.50e+06	1.01	y	43:08	0.83	503			-	-	*	
PCB-185	1.45e+06	1.03	y	43:46	0.74	95.3			-	-	*	
PCB-174	1.21e+07	1.04	y	44:06	0.79	749			-	-	*	
PCB-181	*	*	n	NotFnd	0.70	*			730	712	0.967	
PCB-177	7.06e+06	1.03	y	44:23	0.68	506			-	-	*	
PCB-171	3.58e+06	1.04	y	44:39	0.74	237			-	-	*	
PCB-173	1.91e+05	1.06	y	45:04	0.66	14.2			-	-	*	
PCB-172	2.04e+06	1.04	y	45:27	0.69	144			-	-	*	
PCB-192	*	*	n	NotFnd	0.94	*			730	712	0.725	
PCB-180	2.71e+07	1.05	y	45:48	0.69	1920			-	-	*	
PCB-193	2.02e+06	1.08	y	45:58	0.98	100			-	-	*	
PCB-191	6.54e+05	1.09	y	46:11	0.94	34.0			-	-	*	
PCB-170	1.10e+07	1.06	y	47:05	0.66	819			-	-	*	
PCB-190	3.36e+06	1.05	y	47:15	0.93	176			-	-	*	
PCB-189	5.46e+05	1.01	y	48:26	1.02	29.4			-	-	*	
13C-PCB-189	3.61e+07	1.07	y	48:26	1.00	1720						87.0
PCB-202	1.60e+06	0.94	y	44:49	1.04	90.7			-	-	*	
PCB-201	1.13e+06	0.93	y	45:17	1.12	59.8			-	-	*	
PCB-204	*	*	n	NotFnd	1.09	*			600	1030	0.957	
PCB-197	3.71e+05	0.91	y	45:40	1.15	19.0			-	-	*	
PCB-200	9.91e+05	0.94	y	46:26	1.10	53.1			-	-	*	
PCB-198	2.48e+05	0.81	y	47:35	0.73	20.0			-	-	*	
PCB-199	5.83e+06	0.94	y	47:42	0.76	452			-	-	*	
PCB-203	7.23e+06	0.89	y	47:56	0.85	503			-	-	*	Co-elute PCB 196
PCB-196	7.23e+06	0.89	y	47:56	0.85	503			-	-	*	Co-elute PCB 203
13C-PCB-202	3.36e+07	0.92	y	44:49	0.97	1660						83.8
13C-PCB-178	3.16e+07	1.05	y	42:19	0.83	1820						92.1
13C-PCB-138	4.13e+07	1.29	y	41:33	-	14.5						
PCB-195	2.88e+06	0.89	y	49:02	0.77	191			-	-	*	
PCB-194	6.65e+06	0.91	y	49:51	0.84	405			-	-	*	
PCB-205	4.70e+05	0.89	y	50:06	1.04	23.0			-	-	*	
13C-PCB-205	3.88e+07	0.90	y	50:05	1.31	1920						97.0
PCB-208	1.11e+06	1.36	y	49:10	1.00	55.3			-	-	*	
13C-PCB-208	3.96e+07	0.80	y	49:09	1.32	1930						97.7
PCB-207	4.96e+05	1.45	y	49:27	1.15	26.2			-	-	*	
PCB-206	2.73e+06	1.31	y	51:20	1.04	202			-	-	*	
13C-PCB-206	2.57e+07	0.81	y	51:18	0.97	1710						86.4
PCB-209	1.67e+06	1.18	y	52:30	1.11	104			-	-	*	
13C-PCB-209	2.88e+07	1.21	y	52:30	1.23	1510						76.2
13C-PCB-194	3.06e+07	0.91	y	49:50	-	12.2						

Analyst: _____ Date: 7/26/19

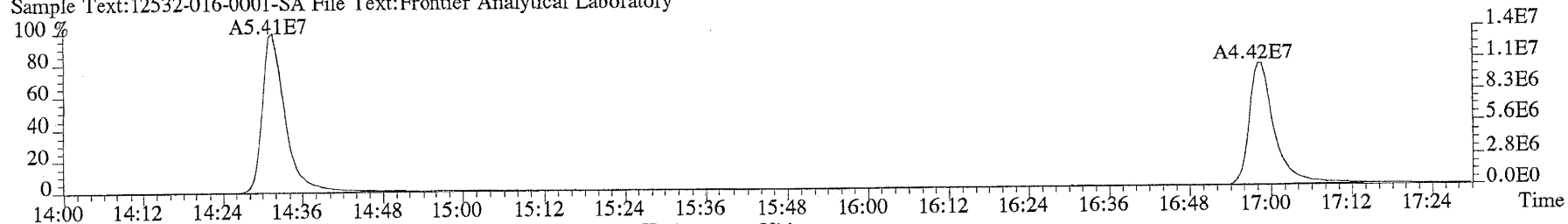
File:25JUL19Z #1-784 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



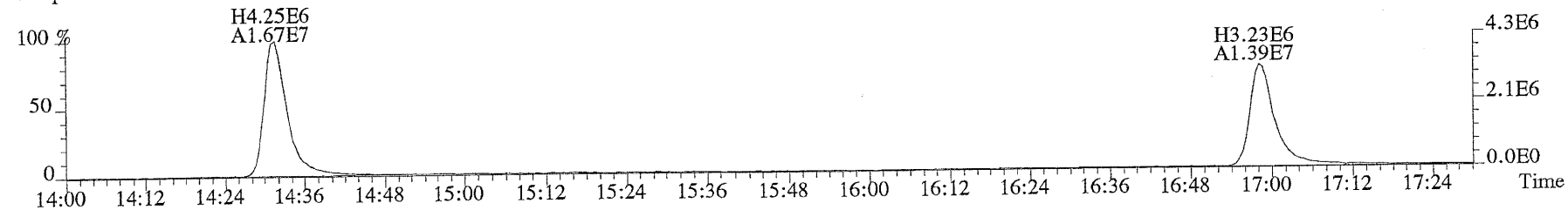
File:25JUL19Z #1-784 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



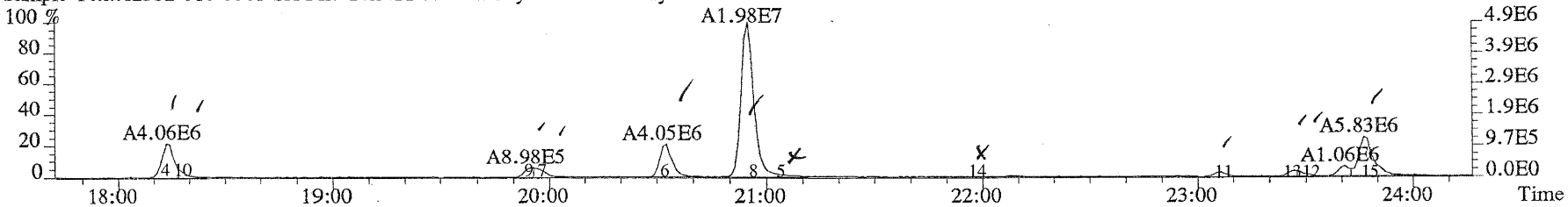
File:25JUL19Z #1-784 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



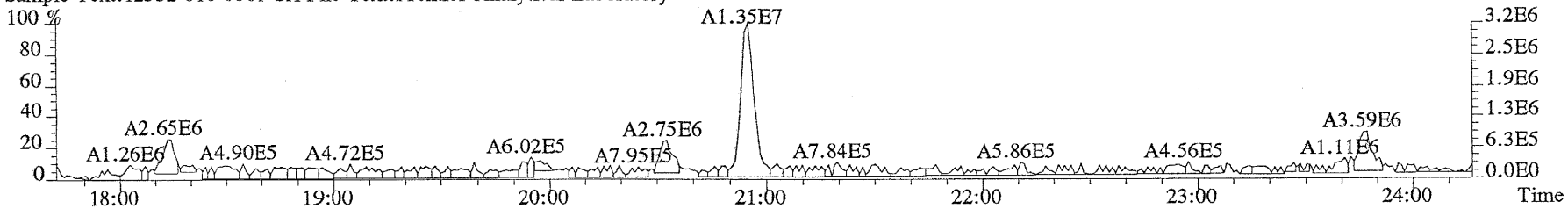
File:25JUL19Z #1-784 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



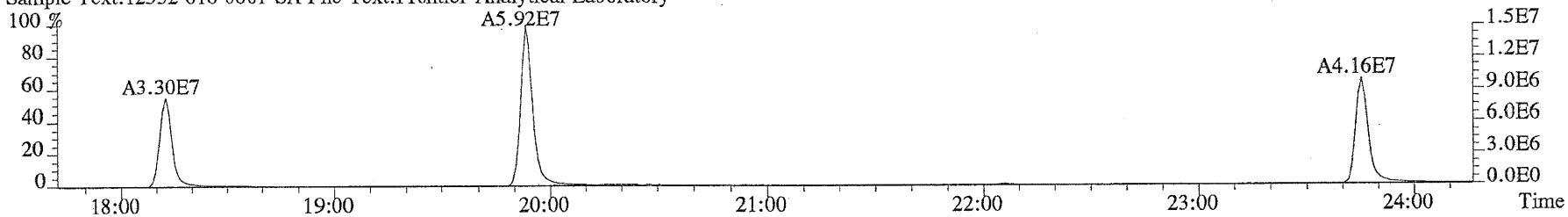
File:25JUL19Z #1-520 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



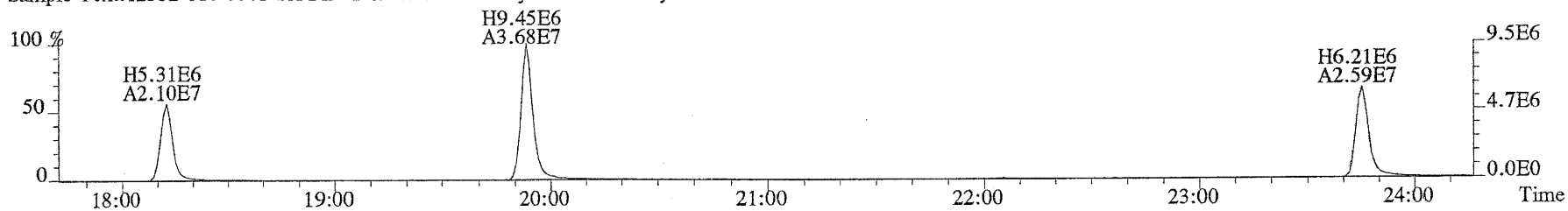
File:25JUL19Z #1-520 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



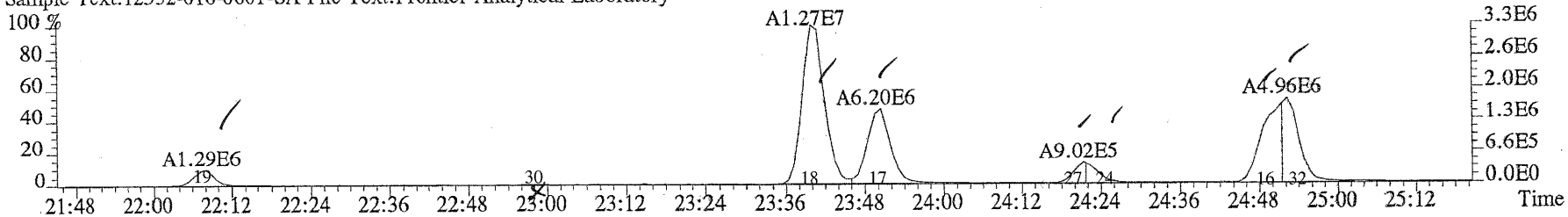
File:25JUL19Z #1-520 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



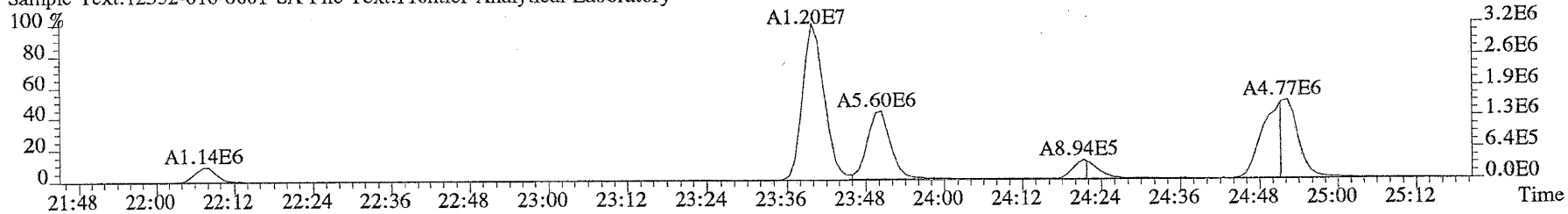
File:25JUL19Z #1-520 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



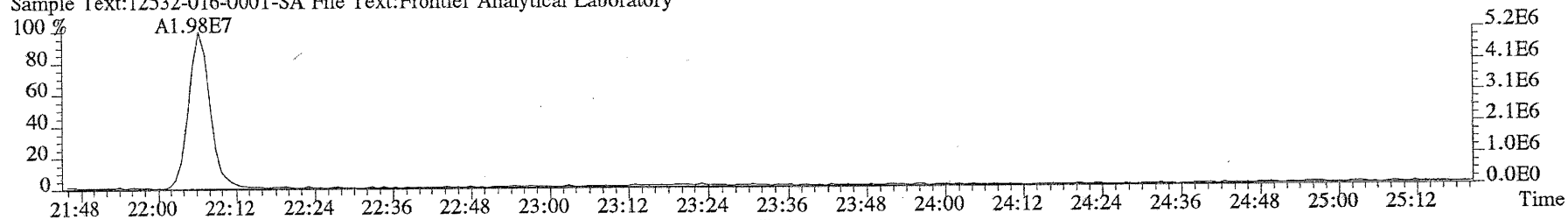
File:25JUL19Z #1-520 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



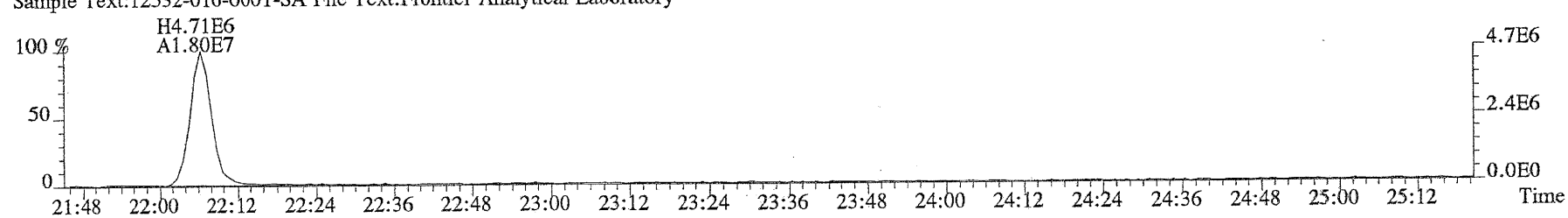
File:25JUL19Z #1-520 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



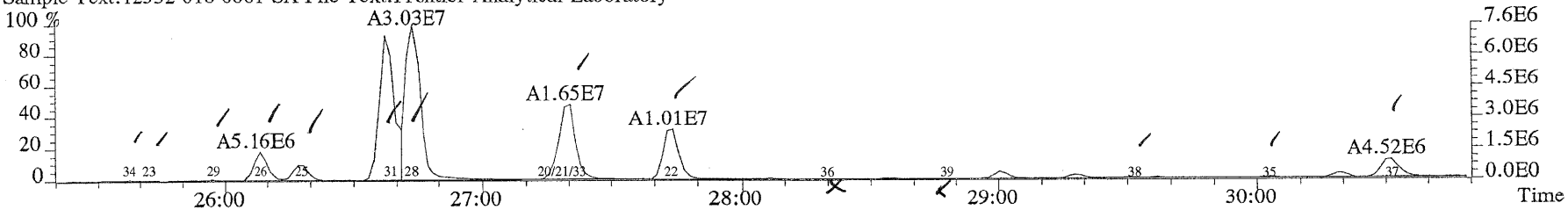
File:25JUL19Z #1-520 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



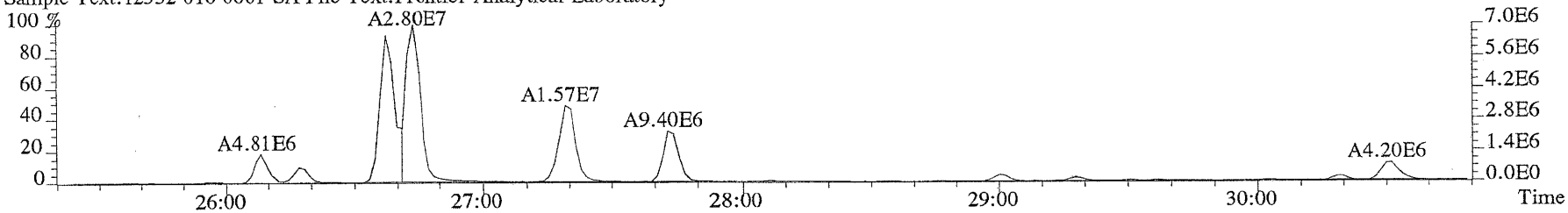
File:25JUL19Z #1-520 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



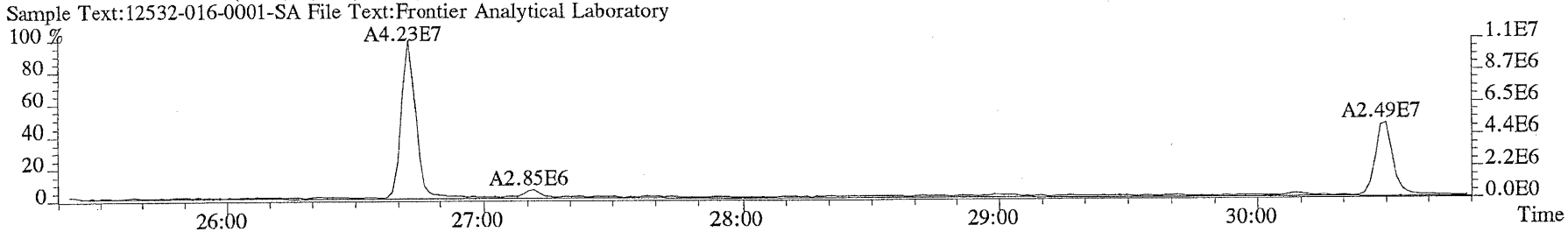
File:25JUL19Z #1-401 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



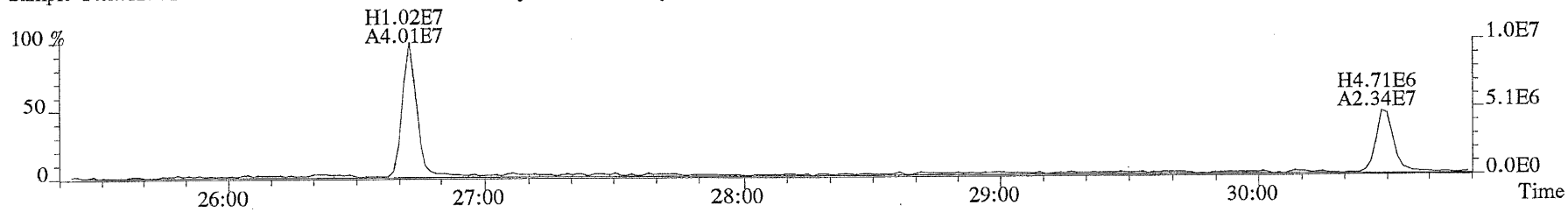
File:25JUL19Z #1-401 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



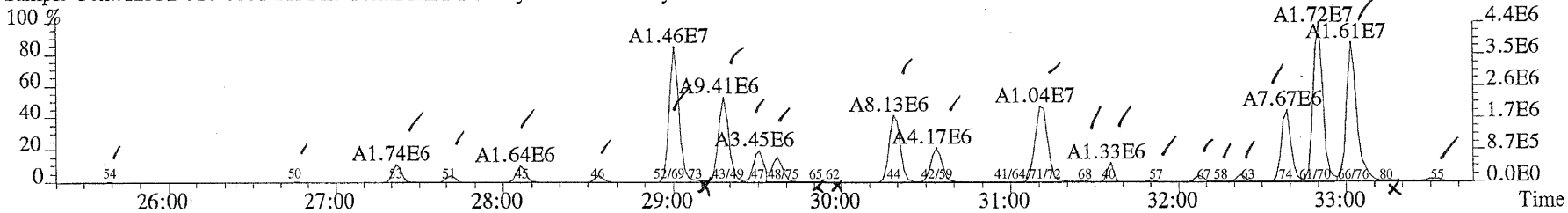
File:25JUL19Z #1-401 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



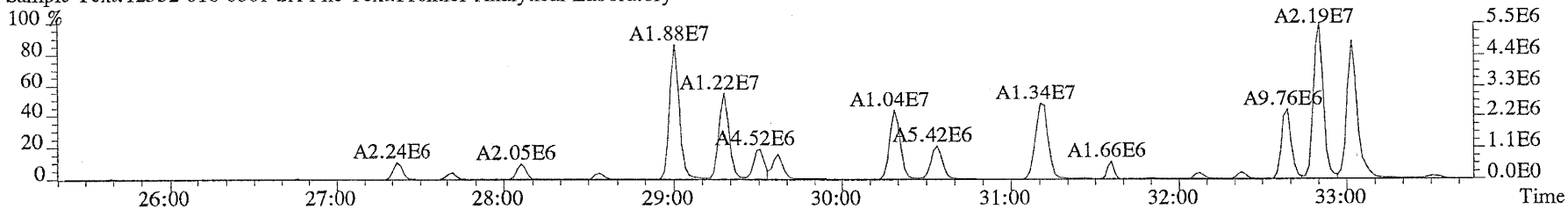
File:25JUL19Z #1-401 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



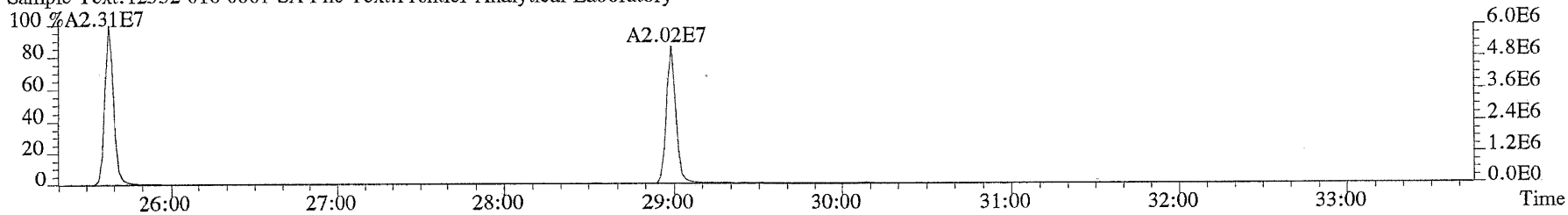
File:25JUL19Z #1-401 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



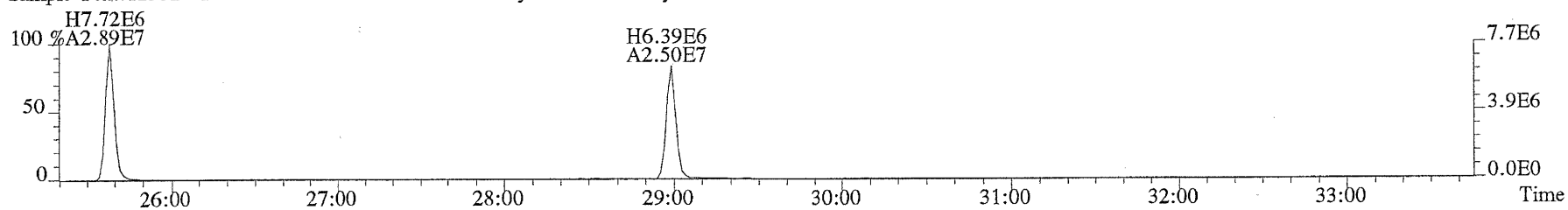
File:25JUL19Z #1-401 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



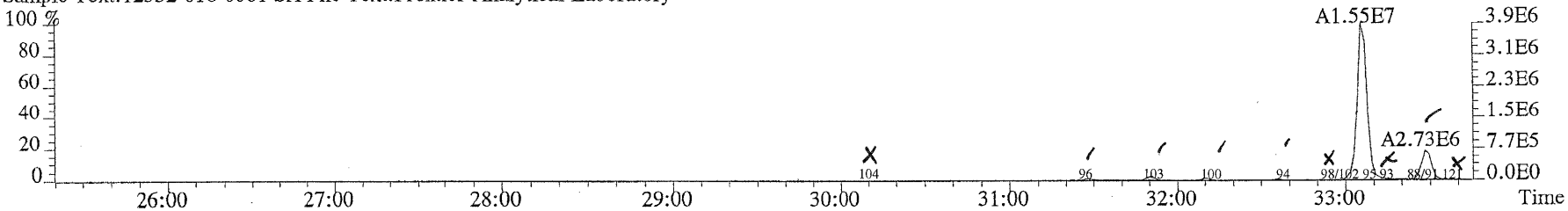
File:25JUL19Z #1-401 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



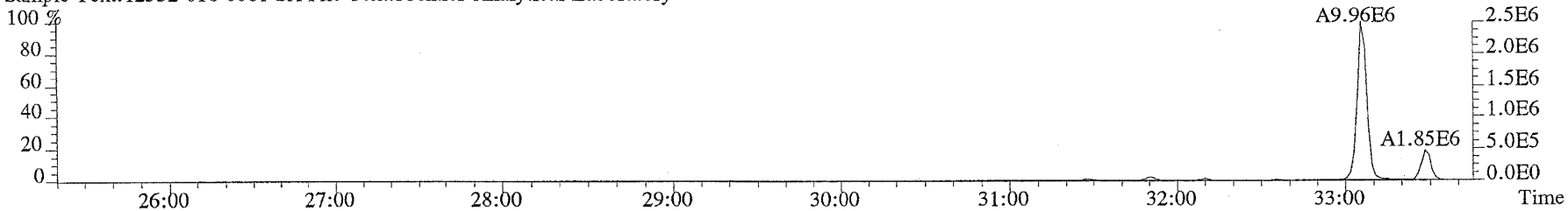
File:25JUL19Z #1-401 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



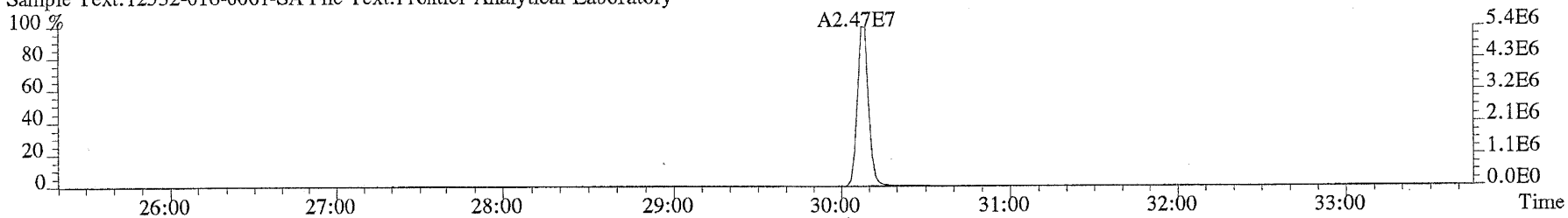
File:25JUL19Z #1-401 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



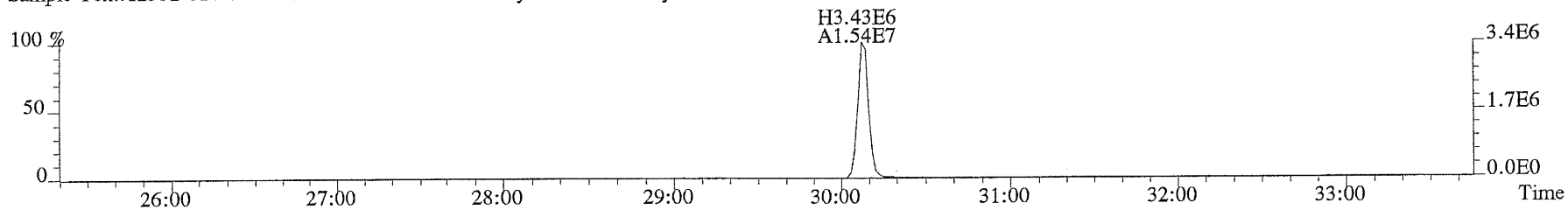
File:25JUL19Z #1-401 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



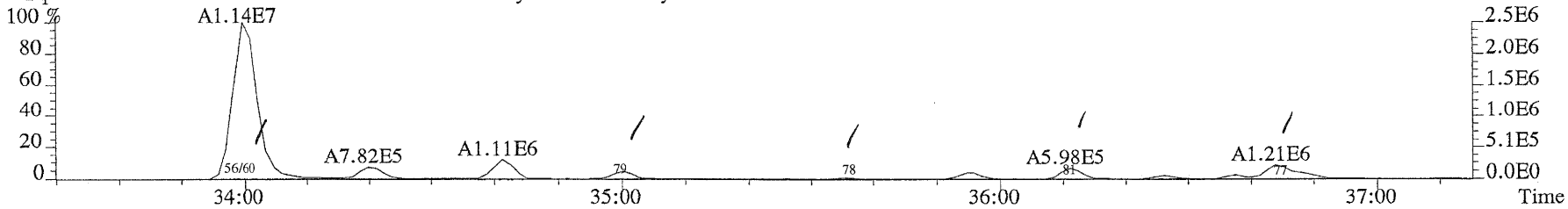
File:25JUL19Z #1-401 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



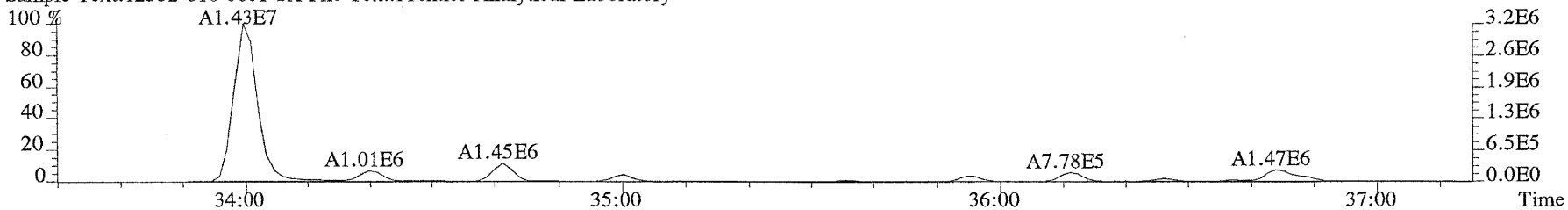
File:25JUL19Z #1-401 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



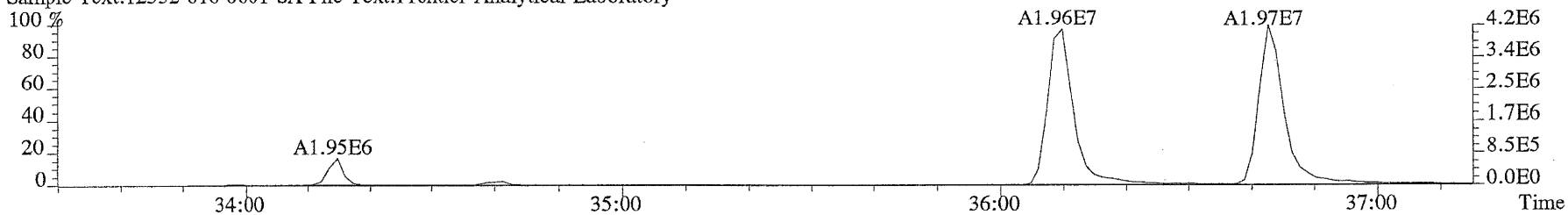
File:25JUL19Z #1-181 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



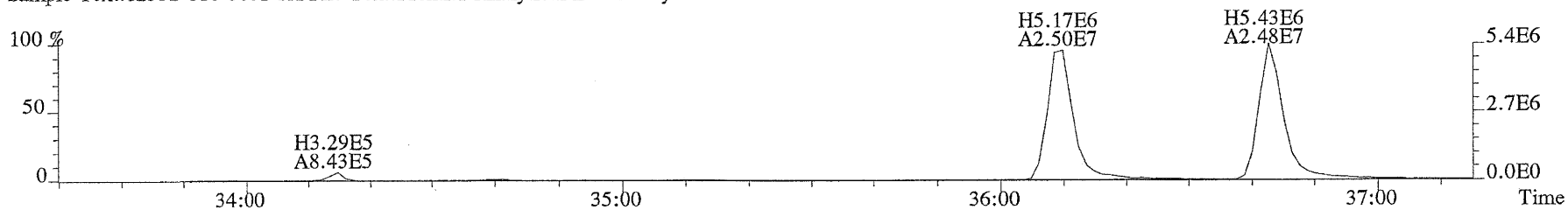
File:25JUL19Z #1-181 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



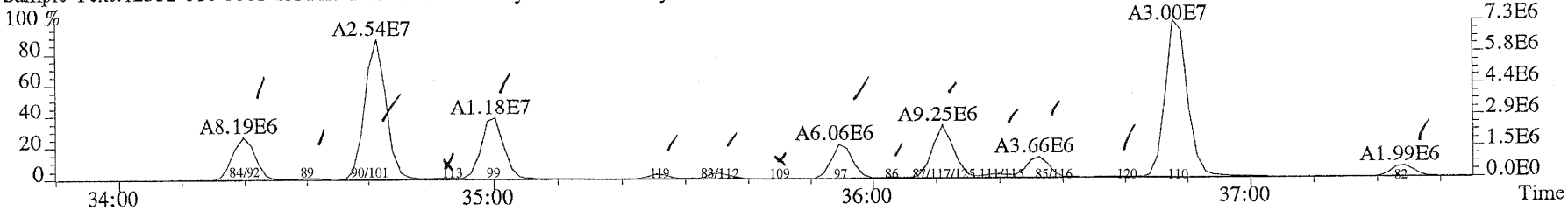
File:25JUL19Z #1-181 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



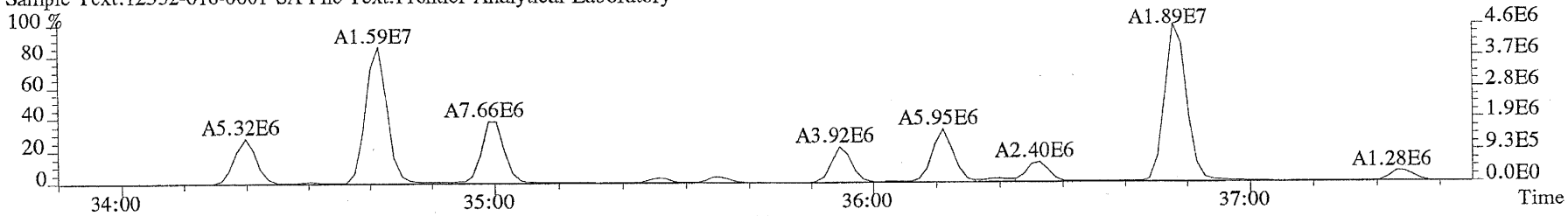
File:25JUL19Z #1-181 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



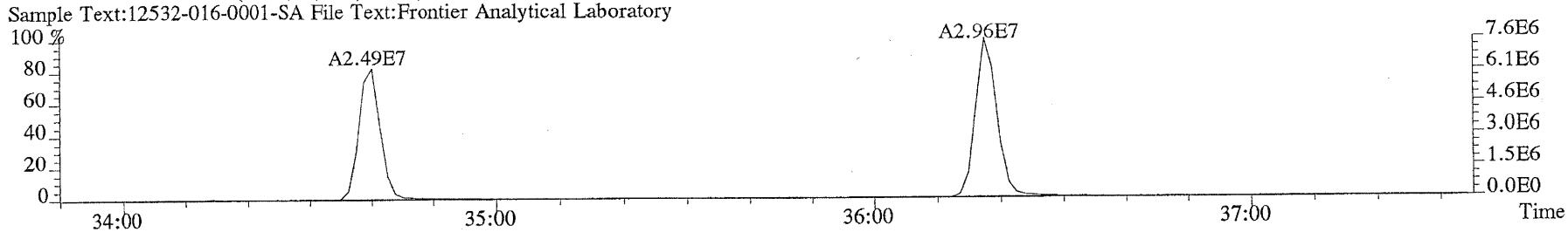
File:25JUL19Z #1-181 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



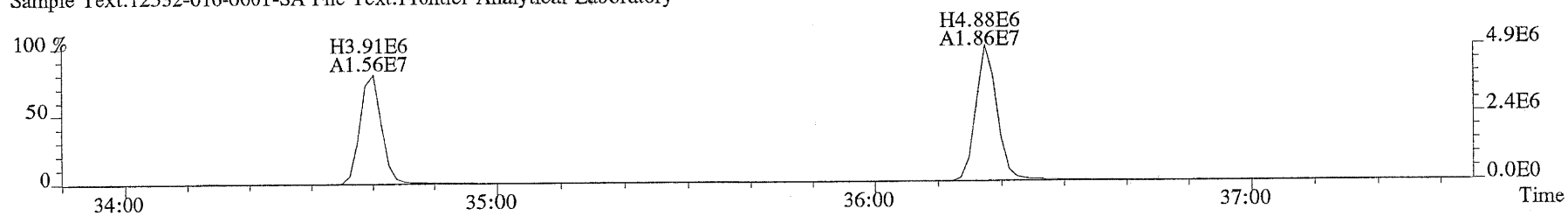
File:25JUL19Z #1-181 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



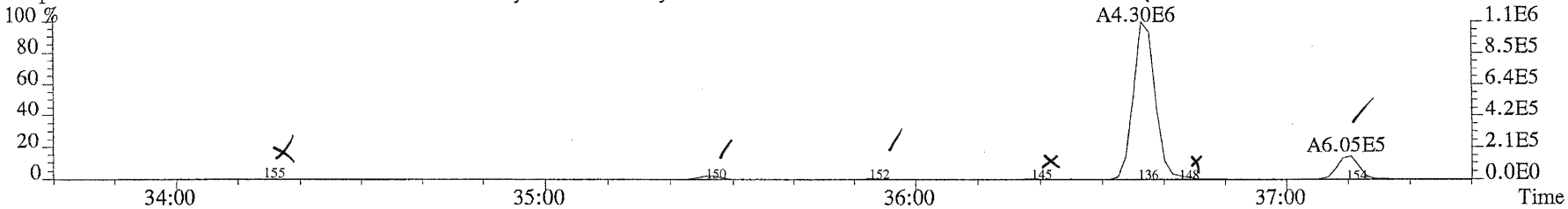
File:25JUL19Z #1-181 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



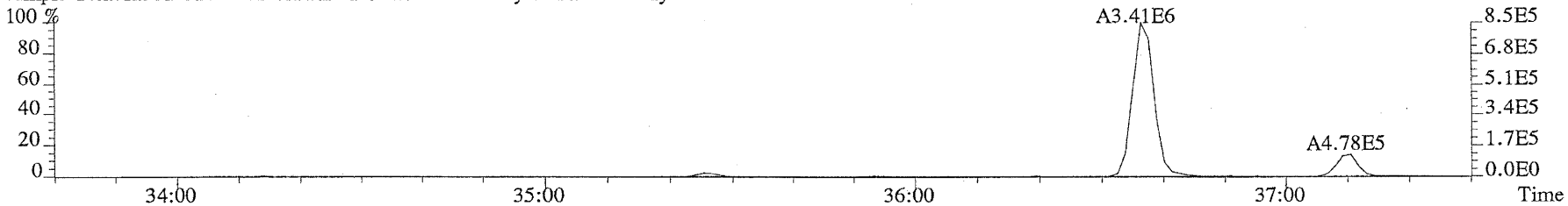
File:25JUL19Z #1-181 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



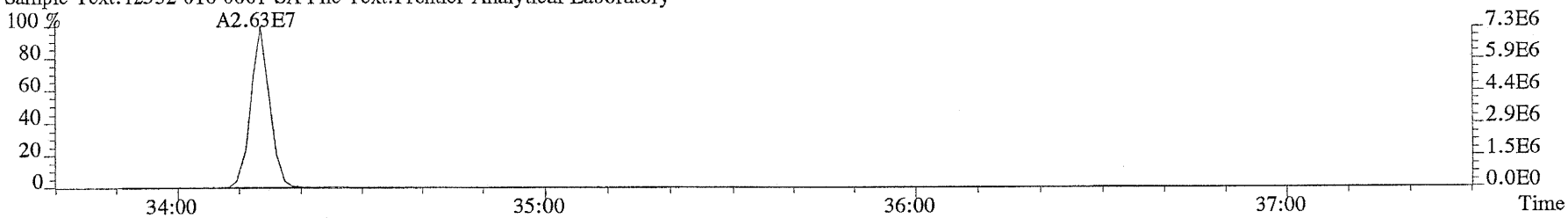
File:25JUL19Z #1-181 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



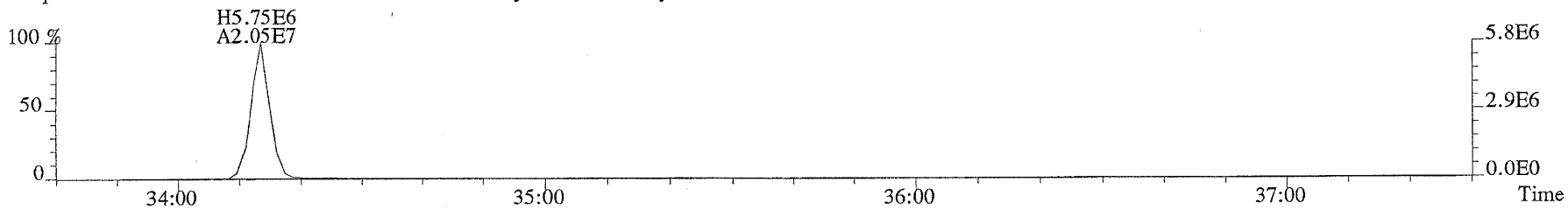
File:25JUL19Z #1-181 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-181 Acq:25-JUL-2019 19:57:41 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:12532-016-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-181 Acq:25-JUL-2019 19:57:41 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:12532-016-0001-SA File Text:Frontier Analytical Laboratory



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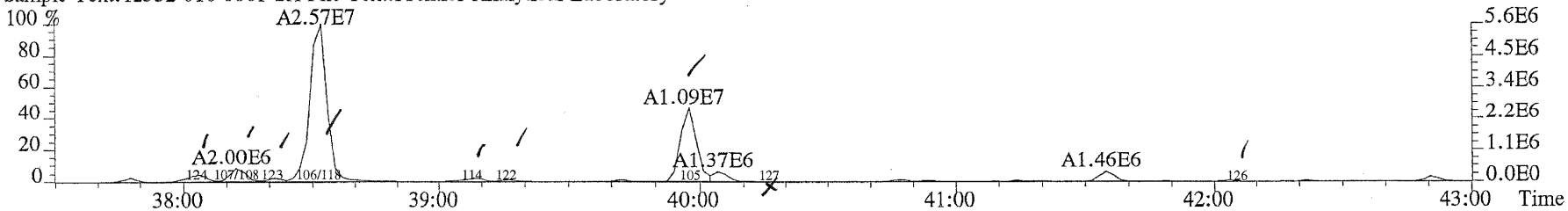
325.8804 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



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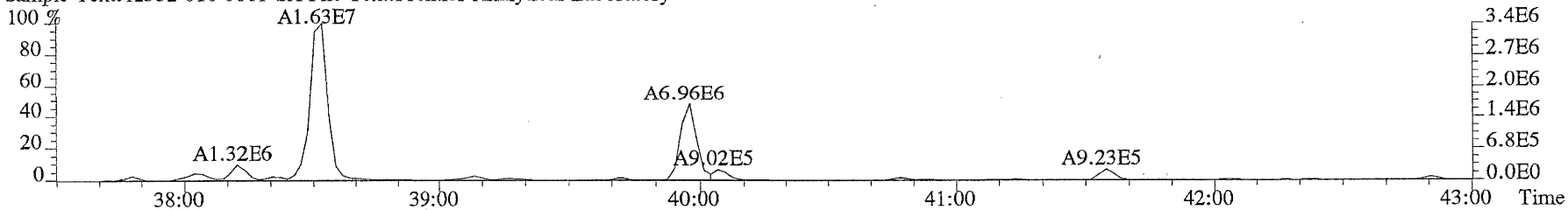
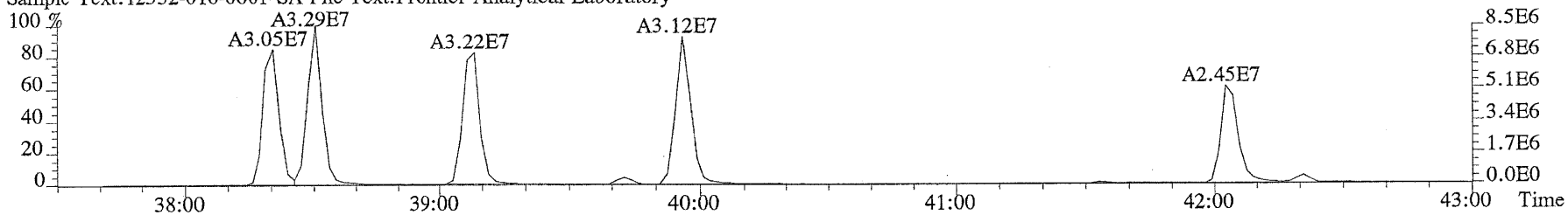
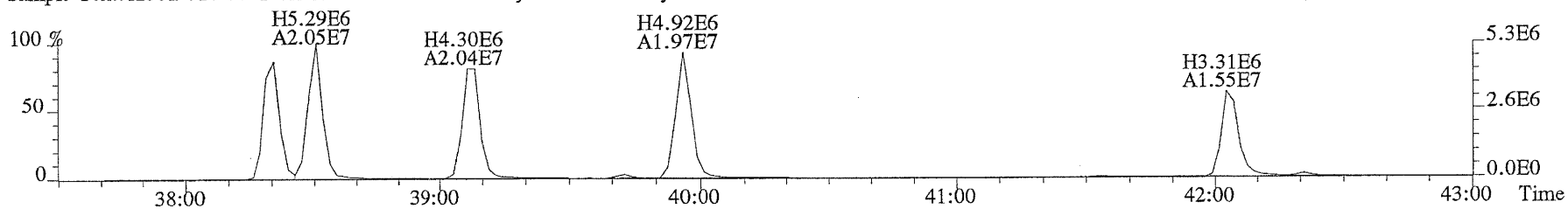
327.8775 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



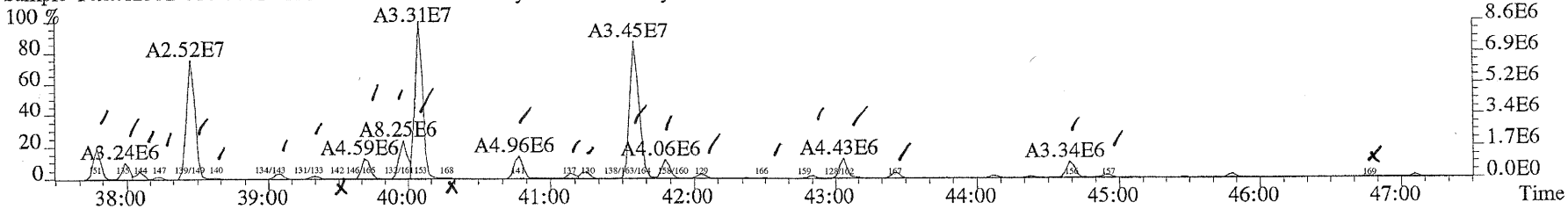
File:25JUL19Z #1-405 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



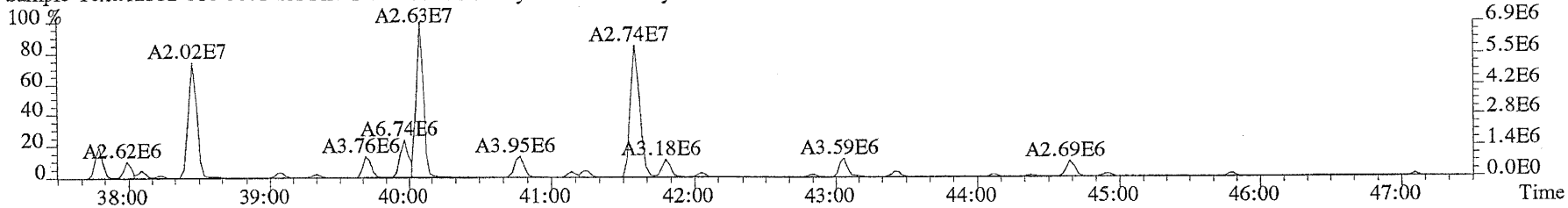
File:25JUL19Z #1-405 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



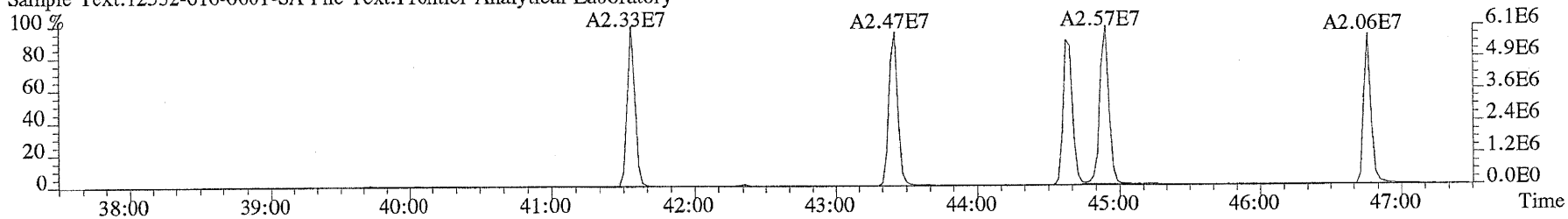
File:25JUL19Z #1-405 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



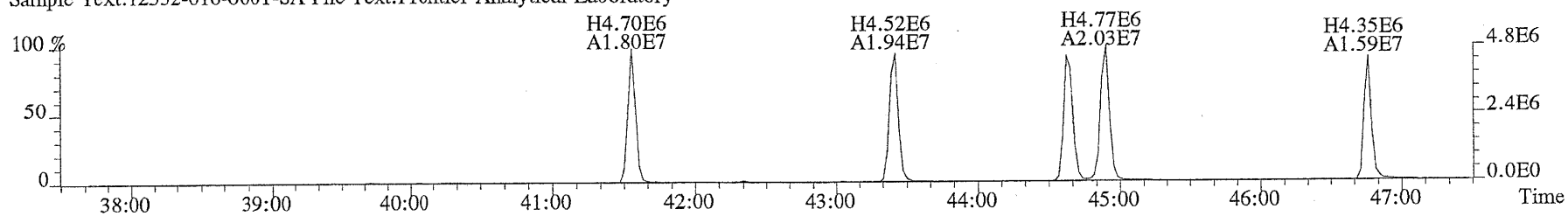
File:25JUL19Z #1-405 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



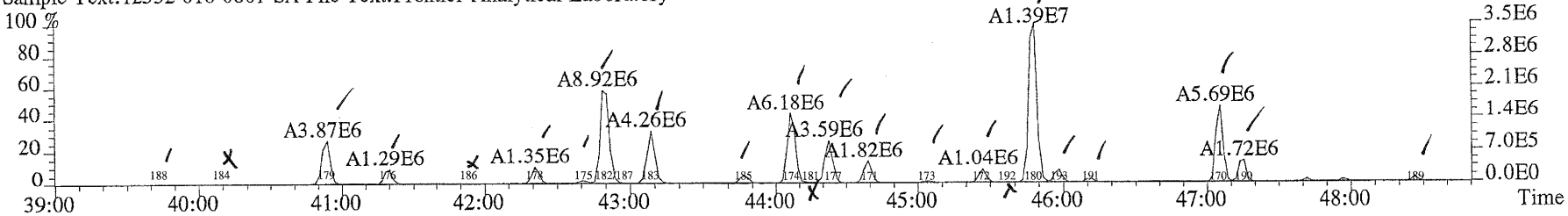
File:25JUL19Z #1-405 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 19:57:41 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:12532-016-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 19:57:41 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:12532-016-0001-SA File Text:Frontier Analytical Laboratory



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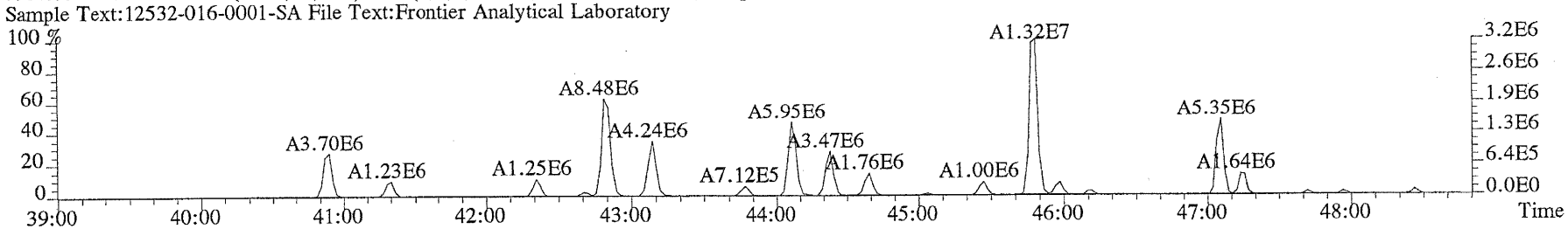
395.7995 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



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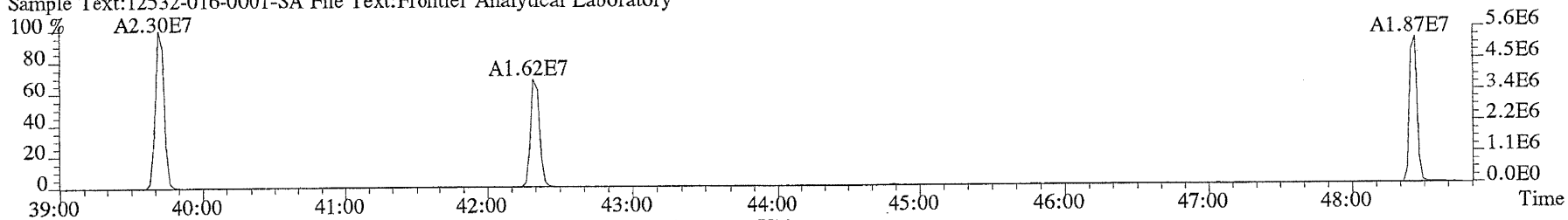
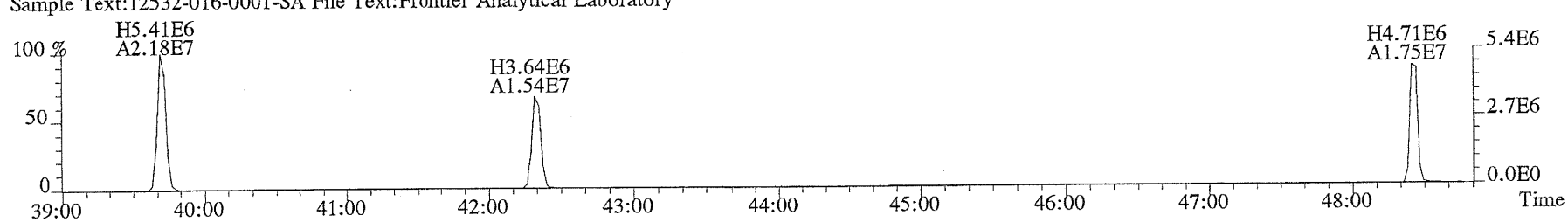
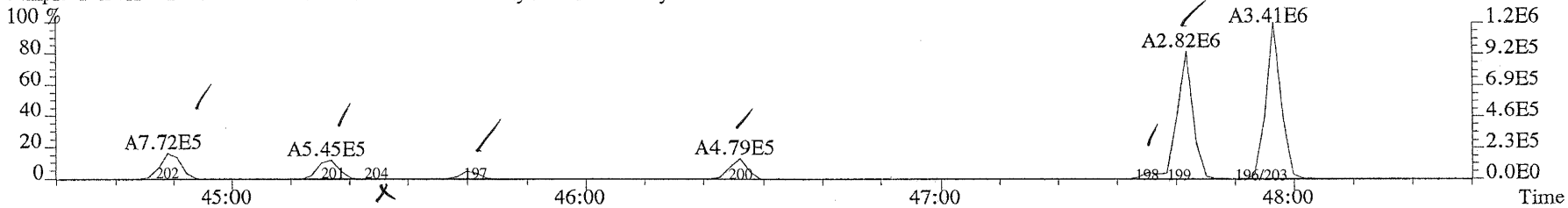
405.8428 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



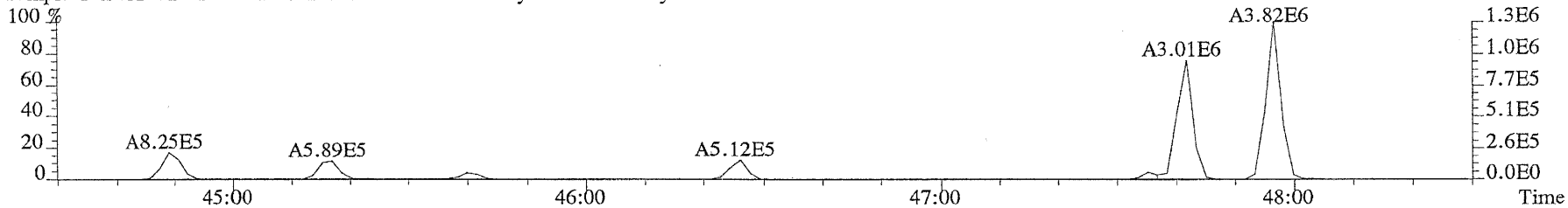
File:25JUL19Z #1-405 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



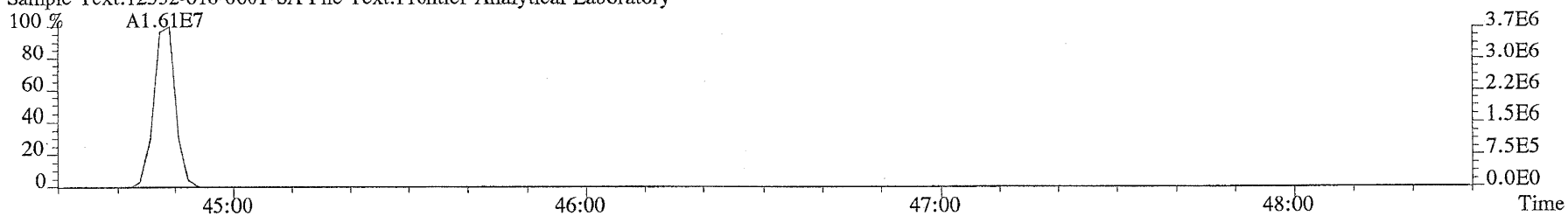
File:25JUL19Z #1-405 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 19:57:41 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:12532-016-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 19:57:41 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:12532-016-0001-SA File Text:Frontier Analytical Laboratory



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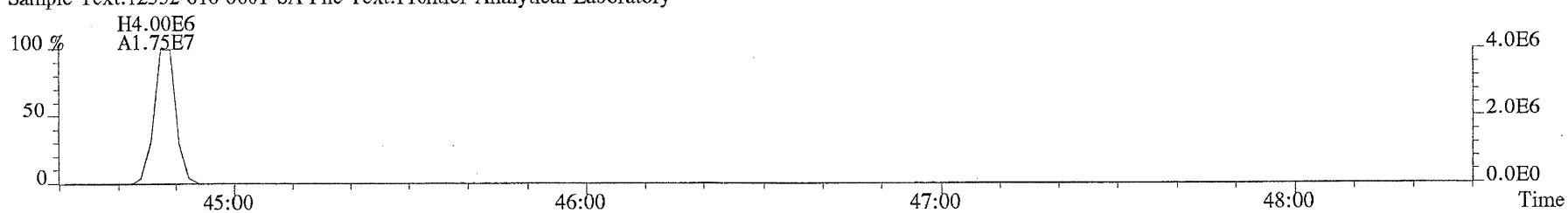
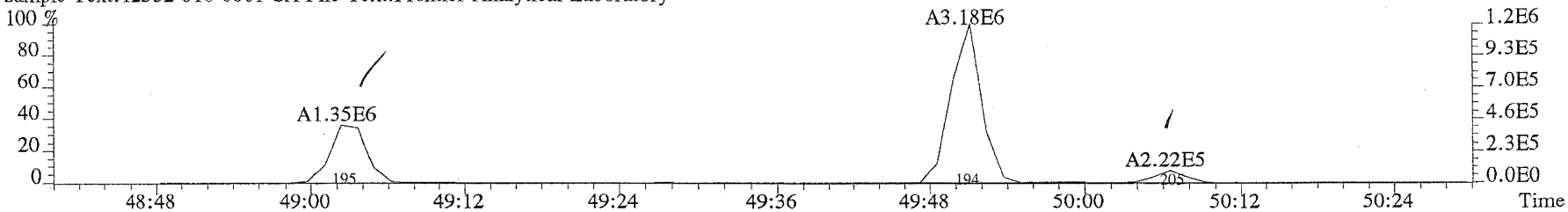
441.8008 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-314 Acq:25-JUL-2019 19:57:41 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:12532-016-0001-SA File Text:Frontier Analytical Laboratory



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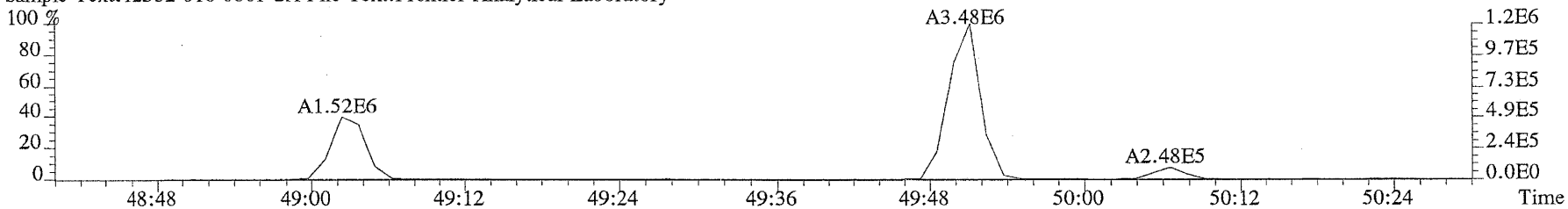
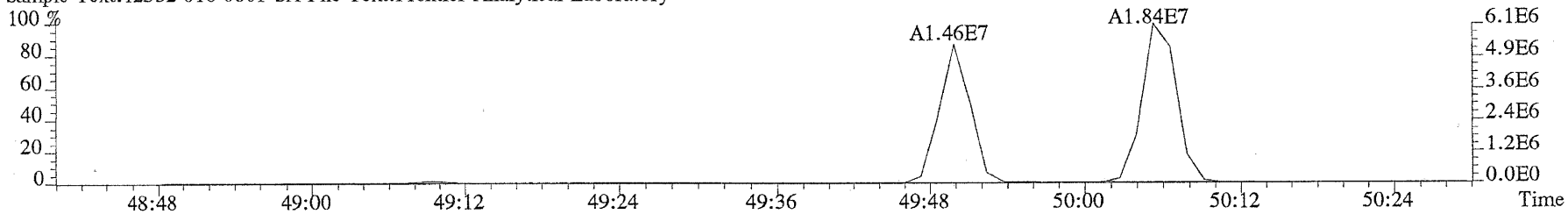
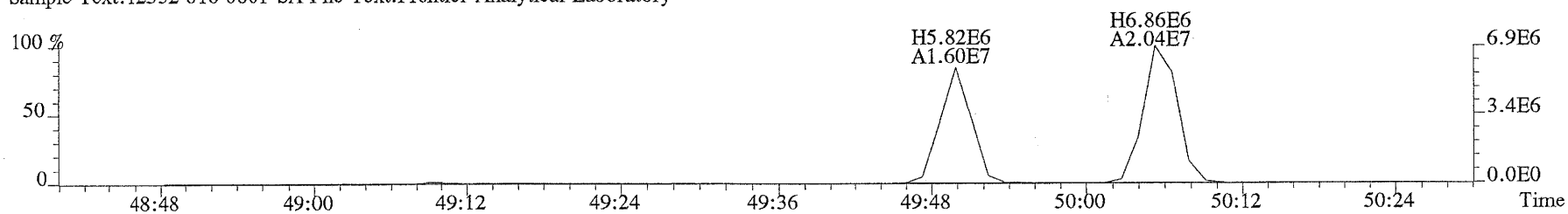
429.7606 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



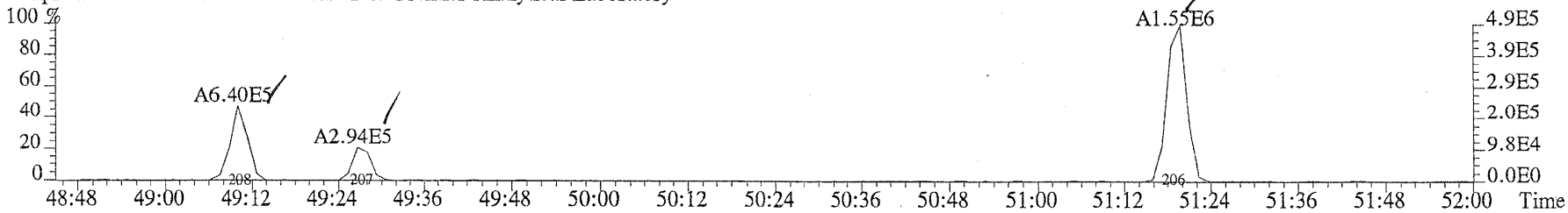
File:25JUL19Z #1-314 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



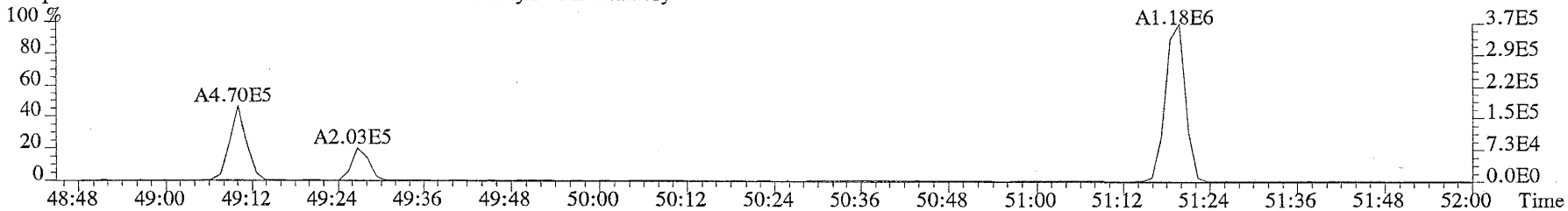
File:25JUL19Z #1-314 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



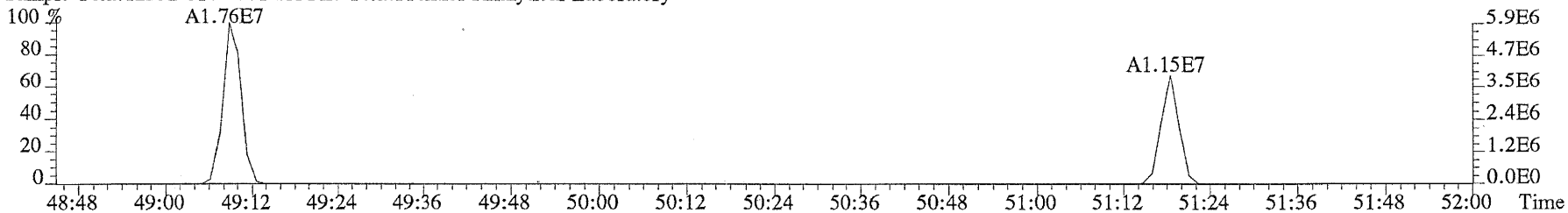
File:25JUL19Z #1-314 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



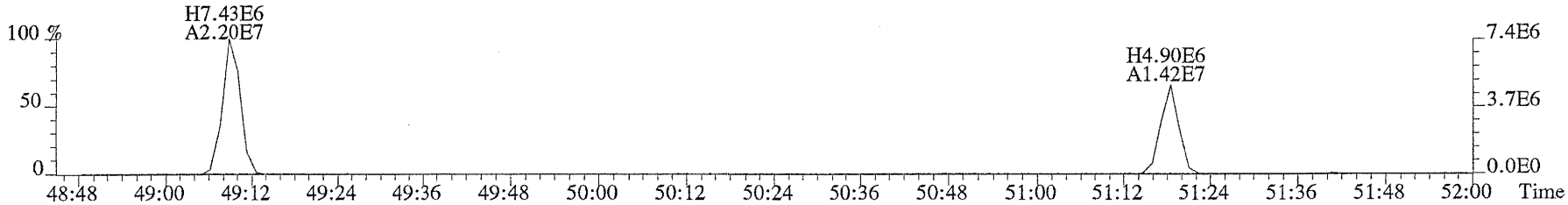
File:25JUL19Z #1-314 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



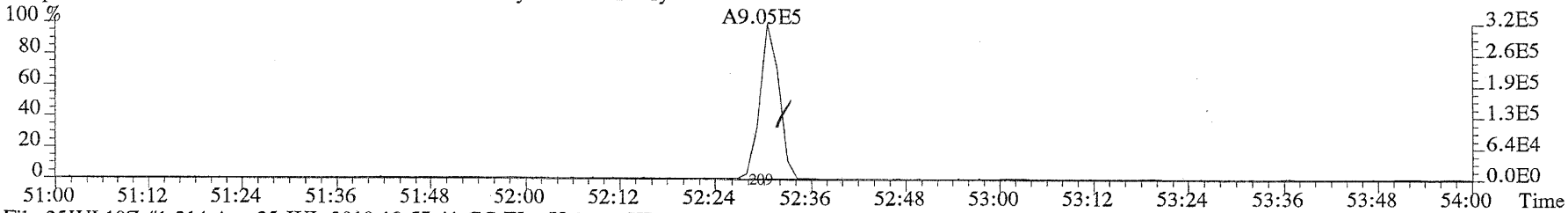
File:25JUL19Z #1-314 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



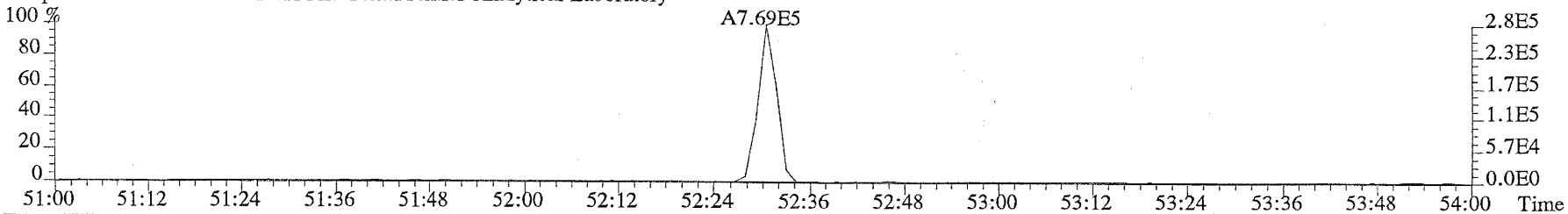
File:25JUL19Z #1-314 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



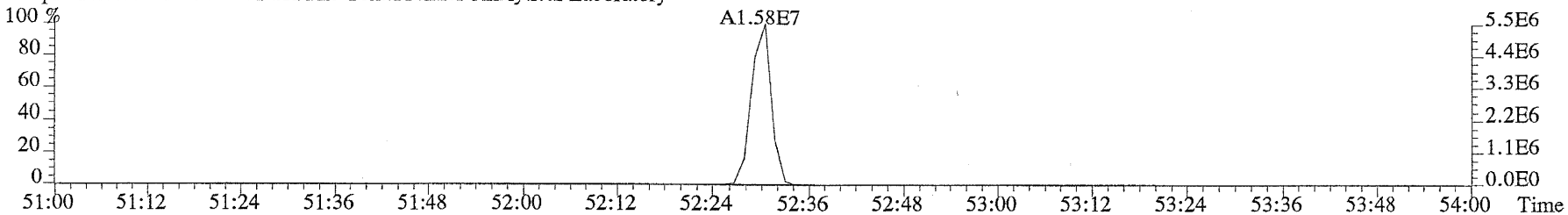
File:25JUL19Z #1-314 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



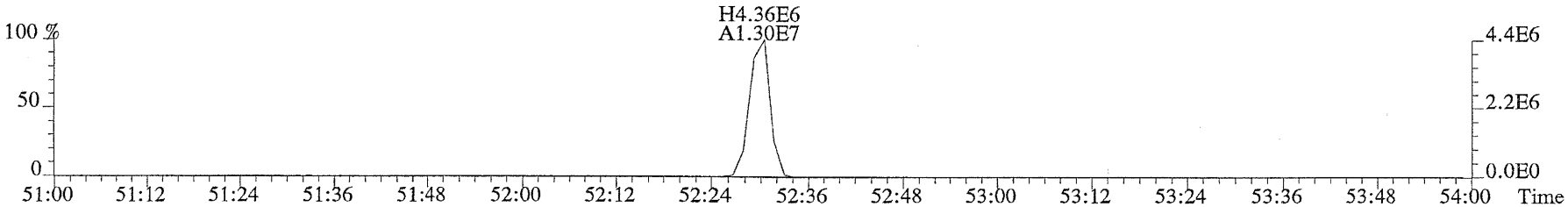
File:25JUL19Z #1-314 Acq:25-JUL-2019 19:57:41 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-016-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-314 Acq:25-JUL-2019 19:57:41 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:12532-016-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-314 Acq:25-JUL-2019 19:57:41 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:12532-016-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12532-017-0001-SA Filename: 25JUL19Z Sam:11 Acquired: 25-JUL-19 20:56:03 ICal: DAILY209FAL4-7-25-19
Client ID: LDW-Y2-SC-ENR+AC-CB-CORE ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 5.040

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.29e+06	3.12 y	14:33	1.17	19.5		-	-	*	
13C-PCB-1	1.12e+08	3.24 y	14:32	0.90	1700					85.6
PCB-2	2.33e+05	2.92 y	16:47	1.20	3.61	J	-	-	*	
PCB-3	7.45e+05	3.05 y	17:00	1.20	12.2		-	-	*	
13C-PCB-3	1.01e+08	3.31 y	16:59	0.87	1580					79.5
PCB-4	7.13e+06	1.59 y	18:14	1.10	153		-	-	*	
PCB-10	8.52e+05	1.38 y	18:18	1.40	12.2		-	-	*	
13C-PCB-4	8.42e+07	1.61 y	18:13	0.66	1740					87.9
PCB-9	1.97e+06	1.60 y	19:56	1.32	29.8		-	-	*	
PCB-7	1.82e+06	1.41 y	19:57	1.48	24.6		-	-	*	
PCB-6	9.17e+06	1.51 y	20:33	1.39	132		-	-	*	
PCB-8	4.50e+07	1.48 y	20:55	1.34	669		-	-	*	
PCB-5	*	* n	NotFnd	1.36	*		547	5330	0.798	
PCB-14	*	* n	NotFnd	1.30	*		547	5330	0.838	
PCB-11	1.31e+06	1.39 y	23:06	1.23	21.4		-	-	*	
PCB-13	1.33e+06	1.50 y	23:26	1.18	22.4		-	-	*	
PCB-12	9.92e+05	1.52 y	23:28	1.23	16.2		-	-	*	
PCB-15	1.61e+07	1.56 y	23:47	1.10	253		-	-	*	
13C-PCB-15	1.14e+08	1.62 y	23:45	0.90	1730					87.2
PCB-19	3.44e+06	1.07 y	22:08	1.19	102		-	-	*	
PCB-30	*	* n	NotFnd	1.80	*		1510	1680	0.584	
PCB-18	3.87e+07	1.07 y	23:41	1.17	1160		-	-	*	
PCB-17	1.83e+07	1.10 y	23:50	1.29	499		-	-	*	
PCB-27	2.05e+06	1.02 y	24:21	1.65	43.6		-	-	*	
PCB-24	3.11e+06	1.11 y	24:22	1.76	62.1		-	-	*	
PCB-16	1.47e+07	1.07 y	24:51	1.43	362		-	-	*	
PCB-32	1.65e+07	1.09 y	24:52	1.46	396		-	-	*	
13C-PCB-19	5.64e+07	1.09 y	22:06	0.49	1570					79.0
13C-PCB-9	1.46e+08	1.60 y	19:54	-	17.7					
PCB-34	4.59e+05	1.16 y	25:38	1.20	9.90		-	-	*	
PCB-23	1.71e+05	1.13 y	25:42	1.47	3.01	J	-	-	*	
PCB-29	7.98e+05	1.16 y	25:57	1.34	15.4		-	-	*	
PCB-26	1.55e+07	1.08 y	26:08	1.27	316		-	-	*	
PCB-25	9.02e+06	1.07 y	26:18	1.26	185		-	-	*	
PCB-31	7.87e+07	1.08 y	26:37	1.28	1600		-	-	*	
PCB-28	9.15e+07	1.10 y	26:43	1.51	1570		-	-	*	
PCB-20	5.46e+07	1.09 y	27:20	1.26	1120		-	-	*	Co-elute PCB 21/33
PCB-21	5.46e+07	1.09 y	27:20	1.26	1120		-	-	*	Co-elute PCB 20/33
PCB-33	5.46e+07	1.09 y	27:20	1.26	1120		-	-	*	Co-elute PCB 20/21
PCB-22	3.11e+07	1.06 y	27:44	1.40	575		-	-	*	
PCB-36	*	* n	NotFnd	1.25	*		1250	1480	0.701	
PCB-39	*	* n	NotFnd	1.24	*		1250	1480	0.702	
PCB-38	5.79e+05	1.00 y	29:30	1.29	11.6		-	-	*	
PCB-35	9.55e+05	1.01 y	30:03	1.13	21.8		-	-	*	
PCB-37	1.58e+07	1.09 y	30:31	1.19	344		-	-	*	
13C-PCB-37	7.65e+07	1.03 y	30:30	1.40	1570					79.3

PCB-54	1.45e+05	0.71	y	25:39	1.22	3.02	J	-	-	*	
PCB-50	8.30e+04	0.79	y	26:46	0.89	2.38	J	-	-	*	
PCB-53	6.49e+06	0.79	y	27:23	0.86	191		-	-	*	
PCB-51	2.42e+06	0.78	y	27:42	0.92	66.7		-	-	*	
PCB-45	5.96e+06	0.80	y	28:06	0.74	205		-	-	*	
PCB-46	2.25e+06	0.78	y	28:33	0.70	81.1		-	-	*	
PCB-52	5.12e+07	0.78	y	29:00	0.90	1440		-	-	*	Co-elute PCB 69
PCB-69	5.12e+07	0.78	y	29:00	0.90	1440		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.12	*		1640	2170	0.851	
PCB-43	3.25e+07	0.79	y	29:18	0.78	1060		-	-	*	Co-elute PCB 49
PCB-49	3.25e+07	0.79	y	29:18	0.78	1060		-	-	*	Co-elute PCB 43
PCB-47	1.28e+07	0.77	y	29:30	0.85	384		-	-	*	
PCB-48	1.00e+07	0.77	y	29:37	1.01	253		-	-	*	Co-elute PCB 75
PCB-75	1.00e+07	0.77	y	29:37	1.01	253		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*		1640	2170	0.936	
PCB-62	*	*	n	NotFnd	1.07	*		1640	2170	0.888	
PCB-44	2.87e+07	0.78	y	30:18	0.67	1090		-	-	*	
PCB-42	1.48e+07	0.77	y	30:34	0.89	421		-	-	*	Co-elute PCB 59
PCB-59	1.48e+07	0.77	y	30:34	0.89	421		-	-	*	Co-elute PCB 42
PCB-72	3.72e+07	0.78	y	31:11	1.00	942		-	-	*	Co-elute PCB 41/71/64
PCB-41	3.72e+07	0.78	y	31:11	1.00	942		-	-	*	Co-elute PCB 72/71/64
PCB-71	3.72e+07	0.78	y	31:11	1.00	942		-	-	*	Co-elute PCB 72/41/64
PCB-64	3.72e+07	0.78	y	31:11	1.00	942		-	-	*	Co-elute PCB 72/41/71
PCB-68	4.12e+05	0.85	y	31:27	1.14	9.18		-	-	*	
PCB-40	4.74e+06	0.79	y	31:36	0.61	197		-	-	*	
PCB-57	4.23e+05	0.86	y	31:51	1.07	10.0		-	-	*	
PCB-67	2.33e+06	0.78	y	32:07	0.99	59.6		-	-	*	
PCB-58	1.90e+05	0.77	y	32:13	1.11	4.33		-	-	*	
PCB-63	2.39e+06	0.77	y	32:22	1.05	57.8		-	-	*	
PCB-74	2.77e+07	0.79	y	32:39	1.02	688		-	-	*	
PCB-61	6.24e+07	0.77	y	32:50	0.97	1640		-	-	*	Co-elute PCB 70
PCB-70	6.24e+07	0.77	y	32:50	0.97	1640		-	-	*	Co-elute PCB 61
PCB-76	5.86e+07	0.78	y	33:01	1.05	1420		-	-	*	Co-elute PCB 66
PCB-66	5.86e+07	0.78	y	33:01	1.05	1420		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.24	*		1640	2170	0.767	
PCB-55	1.77e+06	0.71	y	33:32	1.06	42.3		-	-	*	
13C-PCB-54	7.81e+07	0.80	y	25:38	1.36	1650					83.3
PCB-104	*	*	n	NotFnd	1.10	*		568	636	0.423	
PCB-96	4.07e+05	1.67	y	31:28	1.04	13.2		-	-	*	
PCB-103	7.48e+05	1.54	y	31:51	0.84	29.8		-	-	*	
PCB-100	3.66e+05	1.47	y	32:10	0.85	14.5		-	-	*	
PCB-94	2.17e+05	1.54	y	32:36	0.69	10.6		-	-	*	
PCB-98	*	*	n	NotFnd	0.69	*		568	636	0.674	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.69	*		568	636	0.674	Co-elute PCB 98
PCB-95	3.62e+07	1.54	y	33:07	0.77	1580		-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*		568	636	0.598	
PCB-88	6.68e+06	1.51	y	33:29	0.83	269		-	-	*	Co-elute PCB 91
PCB-91	6.68e+06	1.51	y	33:29	0.83	269		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.89	*		568	636	0.523	
13C-PCB-104	5.91e+07	1.58	y	30:08	1.06	1600					80.5
13C-PCB-28	1.15e+08	1.05	y	26:42	1.72	1930					97.1
13C-PCB-52	6.89e+07	0.79	y	28:59	-	18.2					

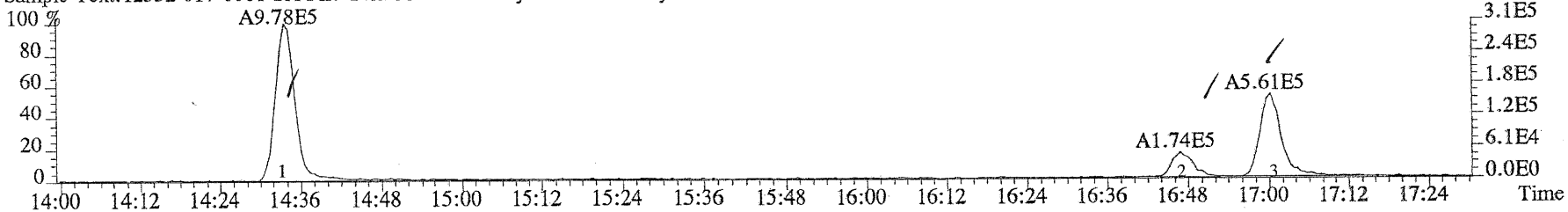
PCB-56	4.14e+07	0.79	y	34:01	1.17	960		-	-	*	Co-elute PCB 60
PCB-60	4.14e+07	0.79	y	34:01	1.17	960		-	-	*	Co-elute PCB 56
PCB-79	1.26e+06	0.81	y	35:00	1.22	28.3		-	-	*	
PCB-78	3.55e+05	0.79	y	35:35	1.16	8.32		-	-	*	
PCB-81	1.94e+06	0.81	y	36:11	1.25	42.4		-	-	*	
13C-PCB-81	7.28e+07	0.79	y	36:10	1.37	1760					88.6
PCB-77	4.83e+06	0.84	y	36:44	1.06	124		-	-	*	
13C-PCB-77	7.27e+07	0.80	y	36:42	1.44	1670					84.1
PCB-155	*	*	n	NotFnd	1.04	*		744	636	0.375	
PCB-150	2.41e+05	1.24	y	35:27	0.95	7.57		-	-	*	
PCB-152	7.90e+04	1.34	y	35:53	0.90	2.61	J	-	-	*	
PCB-145	3.95e+04	1.12	y	36:18	0.93	1.27	J	-	-	*	
PCB-136	9.75e+06	1.27	y	36:37	0.93	311		-	-	*	
PCB-148	*	*	n	NotFnd	0.62	*		744	636	0.624	
PCB-154	1.32e+06	1.31	y	37:10	0.75	52.3		-	-	*	
13C-PCB-155	6.66e+07	1.31	y	34:13	1.44	1530					77.0
13C-PCB-111	6.70e+07	1.61	y	36:18	1.22	1810					91.3
13C-PCB-101	6.02e+07	1.61	y	34:40	-	19.6					
PCB-84	1.96e+07	1.62	y	34:20	0.83	622		-	-	*	Co-elute PCB 92
PCB-92	1.96e+07	1.62	y	34:20	0.83	622		-	-	*	Co-elute PCB 84
PCB-89	6.79e+05	1.52	y	34:31	0.81	22.0		-	-	*	
PCB-90	5.87e+07	1.61	y	34:41	0.89	1740		-	-	*	Co-elute PCB 101
PCB-101	5.87e+07	1.61	y	34:41	0.89	1740		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.02	*		1170	960	0.569	
PCB-99	2.68e+07	1.61	y	35:00	0.98	723		-	-	*	
PCB-119	1.85e+06	1.51	y	35:27	1.13	43.1		-	-	*	
PCB-83	2.41e+06	1.51	y	35:35	0.90	70.5		-	-	*	Co-elute PCB 112
PCB-112	2.41e+06	1.51	y	35:35	0.90	70.5		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.08	*		1170	960	0.536	
PCB-97	1.43e+07	1.57	y	35:56	0.73	518		-	-	*	
PCB-86	4.00e+05	1.65	y	36:03	0.79	13.3		-	-	*	
PCB-125	2.21e+07	1.58	y	36:11	0.97	599		-	-	*	Co-elute PCB 87/117
PCB-87	2.21e+07	1.58	y	36:11	0.97	599		-	-	*	Co-elute PCB 125/117
PCB-117	2.21e+07	1.58	y	36:11	0.97	599		-	-	*	Co-elute PCB 125/87
PCB-111	1.54e+06	1.58	y	36:20	1.13	35.6		-	-	*	Co-elute PCB 115
PCB-115	1.54e+06	1.58	y	36:20	1.13	35.6		-	-	*	Co-elute PCB 111
PCB-85	8.71e+06	1.53	y	36:26	0.97	235		-	-	*	Co-elute PCB 116
PCB-116	8.71e+06	1.53	y	36:26	0.97	235		-	-	*	Co-elute PCB 85
PCB-120	3.86e+05	1.38	y	36:39	1.18	8.63		-	-	*	
PCB-110	7.03e+07	1.57	y	36:49	1.10	1680		-	-	*	
PCB-82	4.78e+06	1.56	y	37:24	0.62	202		-	-	*	
PCB-124	3.29e+06	1.52	y	38:04	1.10	78.5		-	-	*	
PCB-108	4.58e+06	1.52	y	38:12	1.20	101		-	-	*	Co-elute PCB 107
PCB-107	4.58e+06	1.52	y	38:12	1.20	101		-	-	*	Co-elute PCB 108
PCB-123	1.12e+06	1.54	y	38:22	1.01	30.9		-	-	*	
13C-PCB-123	7.09e+07	1.59	y	38:20	1.31	1750					88.4
PCB-118	6.17e+07	1.56	y	38:32	1.09	1420		-	-	*	Co-elute PCB 106
PCB-106	6.17e+07	1.56	y	38:32	1.09	1420		-	-	*	Co-elute PCB 118
13C-PCB-118	7.93e+07	1.61	y	38:30	1.46	1760					88.9
PCB-114	1.77e+06	1.44	y	39:08	1.14	40.4		-	-	*	
13C-PCB-114	7.64e+07	1.61	y	39:08	1.34	1860					93.6
PCB-122	8.50e+05	1.36	y	39:16	1.16	19.3		-	-	*	
PCB-105	2.59e+07	1.59	y	39:57	1.19	575		-	-	*	
13C-PCB-105	7.51e+07	1.60	y	39:56	1.32	1850					93.3

PCB-127	*	*	n	NotFnd	1.06	*	1560	1190	0.710	
PCB-126	3.94e+05	1.56	y	42:04	1.13	10.8	-	-	*	
13C-PCB-126	6.41e+07	1.61	y	42:04	1.20	1740				87.7
PCB-151	1.45e+07	1.26	y	37:47	0.98	453	-	-	*	
PCB-135	8.17e+06	1.24	y	37:59	0.92	271	-	-	*	
PCB-144	3.37e+06	1.23	y	38:05	1.05	98.0	-	-	*	
PCB-147	1.41e+06	1.24	y	38:14	1.09	39.8	-	-	*	
PCB-139	5.87e+07	1.26	y	38:27	1.08	1680	-	-	*	Co-elute PCB 149
PCB-149	5.87e+07	1.26	y	38:27	1.08	1680	-	-	*	Co-elute PCB 139
PCB-140	6.43e+05	1.27	y	38:38	1.07	18.5	-	-	*	
PCB-143	3.24e+06	1.26	y	39:05	0.86	116	-	-	*	Co-elute PCB 134
PCB-134	3.24e+06	1.26	y	39:05	0.86	116	-	-	*	Co-elute PCB 143
PCB-131	1.82e+06	1.24	y	39:20	0.85	65.5	-	-	*	Co-elute PCB 133
PCB-133	1.82e+06	1.24	y	39:20	0.85	65.5	-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.86	*	1530	1290	1.00	
PCB-165	1.09e+07	1.25	y	39:43	1.17	287	-	-	*	Co-elute PCB 146
PCB-146	1.09e+07	1.25	y	39:43	1.17	287	-	-	*	Co-elute PCB 165
PCB-161	1.96e+07	1.24	y	39:57	1.07	563	-	-	*	Co-elute PCB 132
PCB-132	1.96e+07	1.24	y	39:57	1.07	563	-	-	*	Co-elute PCB 161
PCB-153	7.88e+07	1.26	y	40:04	1.16	2080	-	-	*	
PCB-168	*	*	n	NotFnd	1.27	*	1530	1290	0.679	
PCB-141	1.16e+07	1.25	y	40:47	0.93	385	-	-	*	
PCB-137	2.86e+06	1.23	y	41:08	0.87	101	-	-	*	
PCB-130	3.80e+06	1.26	y	41:15	0.85	137	-	-	*	
PCB-138	8.21e+07	1.26	y	41:34	1.13	2230	-	-	*	Co-elute PCB 163/164
PCB-163	8.21e+07	1.26	y	41:34	1.13	2230	-	-	*	Co-elute PCB 138/164
PCB-164	8.21e+07	1.26	y	41:34	1.13	2230	-	-	*	Co-elute PCB 138/163
PCB-158	9.80e+06	1.24	y	41:48	1.27	237	-	-	*	Co-elute PCB 160
PCB-160	9.80e+06	1.24	y	41:48	1.27	237	-	-	*	Co-elute PCB 158
PCB-129	2.50e+06	1.24	y	42:02	0.79	97.5	-	-	*	
PCB-166	3.12e+05	1.19	y	42:22	1.20	8.00	-	-	*	
PCB-159	1.30e+06	1.21	y	42:50	1.31	30.6	-	-	*	
PCB-128	1.11e+07	1.27	y	43:03	1.03	332	-	-	*	Co-elute PCB 162
PCB-162	1.11e+07	1.27	y	43:03	1.03	332	-	-	*	Co-elute PCB 128
PCB-167	3.30e+06	1.27	y	43:26	1.13	87.0	-	-	*	
13C-PCB-167	6.68e+07	1.28	y	43:25	1.15	1880				95.0
PCB-156	8.60e+06	1.22	y	44:39	1.23	211	-	-	*	
13C-PCB-156	6.60e+07	1.29	y	44:39	1.11	1920				97.0
PCB-157	1.87e+06	1.38	y	44:55	1.15	47.6	-	-	*	
13C-PCB-157	6.76e+07	1.29	y	44:54	1.14	1920				96.9
PCB-169	*	*	n	NotFnd	1.11	*	1530	1290	0.779	
13C-PCB-169	5.84e+07	1.27	y	46:46	1.08	1760				88.6

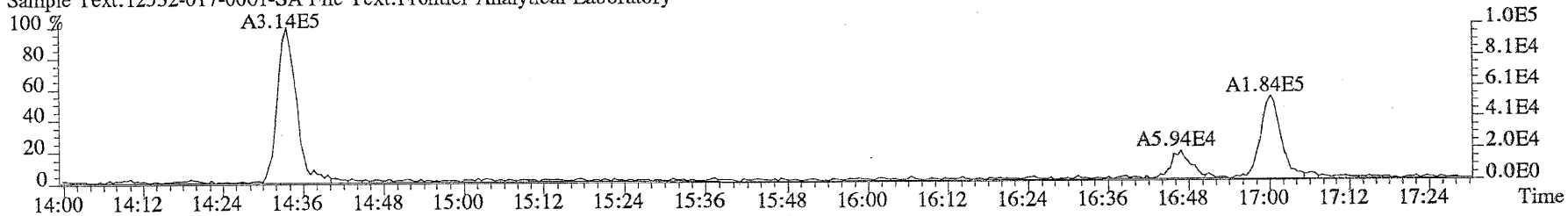
PCB-188	5.77e+04	0.95	y	39:44	1.06	1.77	J	-	-	*	
13C-PCB-188	6.11e+07	1.06	y	39:43	1.26	1570					79.3
PCB-184	*	*	n	NotFnd	1.24	*		1280	560	0.448	
PCB-179	9.08e+06	1.05	y	40:53	1.13	283		-	-	*	
PCB-176	2.97e+06	1.03	y	41:20	1.08	96.7		-	-	*	
PCB-186	*	*	n	NotFnd	1.13	*		1280	560	0.492	
PCB-178	3.23e+06	1.05	y	42:21	0.76	150		-	-	*	
PCB-175	6.55e+05	1.06	y	42:40	0.77	30.0		-	-	*	
PCB-187	2.15e+07	1.05	y	42:50	0.86	883		-	-	*	Co-elute PCB 182
PCB-182	2.15e+07	1.05	y	42:50	0.86	883		-	-	*	Co-elute PCB 187
PCB-183	1.07e+07	1.03	y	43:08	0.83	455		-	-	*	
PCB-185	1.77e+06	1.09	y	43:46	0.74	84.0		-	-	*	
PCB-174	1.48e+07	1.06	y	44:08	0.79	658		-	-	*	
PCB-181	*	*	n	NotFnd	0.70	*		1280	560	0.788	
PCB-177	8.50e+06	1.03	y	44:22	0.68	438		-	-	*	
PCB-171	4.47e+06	1.05	y	44:39	0.74	212		-	-	*	
PCB-173	3.03e+05	0.97	y	45:04	0.66	16.2		-	-	*	
PCB-172	2.46e+06	1.02	y	45:27	0.69	125		-	-	*	
PCB-192	*	*	n	NotFnd	0.94	*		1280	560	0.591	
PCB-180	3.40e+07	1.05	y	45:48	0.69	1730		-	-	*	
PCB-193	2.42e+06	1.03	y	45:58	0.98	86.6		-	-	*	
PCB-191	8.29e+05	1.03	y	46:11	0.94	31.0		-	-	*	
PCB-170	1.40e+07	1.06	y	47:05	0.66	750		-	-	*	
PCB-190	4.04e+06	1.06	y	47:15	0.93	153		-	-	*	
PCB-189	7.58e+05	1.02	y	48:28	1.02	28.6		-	-	*	
13C-PCB-189	5.16e+07	1.07	y	48:26	1.00	1670					84.2
PCB-202	2.00e+06	0.91	y	44:50	1.04	76.9		-	-	*	
PCB-201	1.40e+06	0.91	y	45:17	1.12	50.2		-	-	*	
PCB-204	*	*	n	NotFnd	1.09	*		612	856	0.561	
PCB-197	4.39e+05	0.89	y	45:41	1.15	15.2		-	-	*	
PCB-200	1.23e+06	0.91	y	46:26	1.10	44.7		-	-	*	
PCB-198	3.97e+05	0.88	y	47:37	0.73	21.7		-	-	*	
PCB-199	6.98e+06	0.94	y	47:42	0.76	366		-	-	*	
PCB-203	8.54e+06	0.91	y	47:56	0.85	402		-	-	*	Co-elute PCB 196
PCB-196	8.54e+06	0.91	y	47:56	0.85	402		-	-	*	Co-elute PCB 203
13C-PCB-202	4.97e+07	0.92	y	44:49	0.97	1670					84.1
13C-PCB-178	4.36e+07	1.08	y	42:21	0.83	1710					86.0
13C-PCB-138	6.11e+07	1.29	y	41:33	-	21.5					
PCB-195	3.18e+06	0.88	y	49:02	0.77	165		-	-	*	
PCB-194	7.60e+06	0.91	y	49:51	0.84	363		-	-	*	
PCB-205	4.94e+05	0.85	y	50:06	1.04	18.9		-	-	*	
13C-PCB-205	4.96e+07	0.90	y	50:05	1.31	1760					88.9
PCB-208	1.32e+06	1.37	y	49:10	1.00	47.7		-	-	*	
13C-PCB-208	5.49e+07	0.81	y	49:09	1.32	1930					97.2
PCB-207	5.89e+05	1.25	y	49:28	1.15	22.7		-	-	*	
PCB-206	3.11e+06	1.32	y	51:18	1.04	171		-	-	*	
13C-PCB-206	3.46e+07	0.81	y	51:18	0.97	1650					83.4
PCB-209	1.52e+06	1.17	y	52:31	1.11	68.7		-	-	*	
13C-PCB-209	3.94e+07	1.19	y	52:30	1.23	1480					74.8
13C-PCB-194	4.27e+07	0.90	y	49:50	-	17.0					

Analyst: _____ Date: 7/26/19

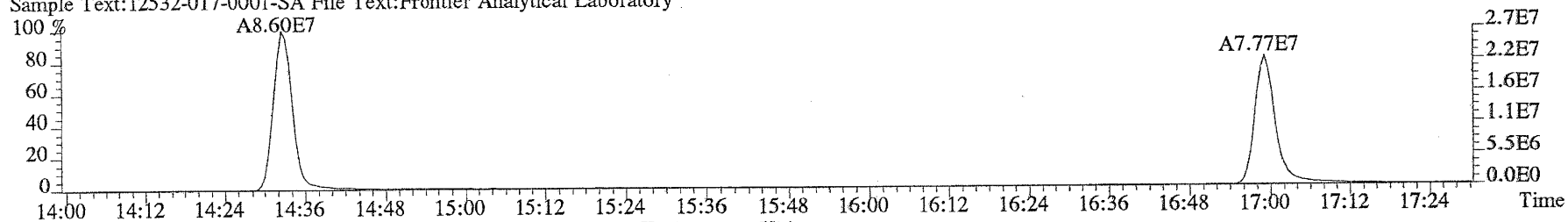
File:25JUL19Z #1-783 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:11 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



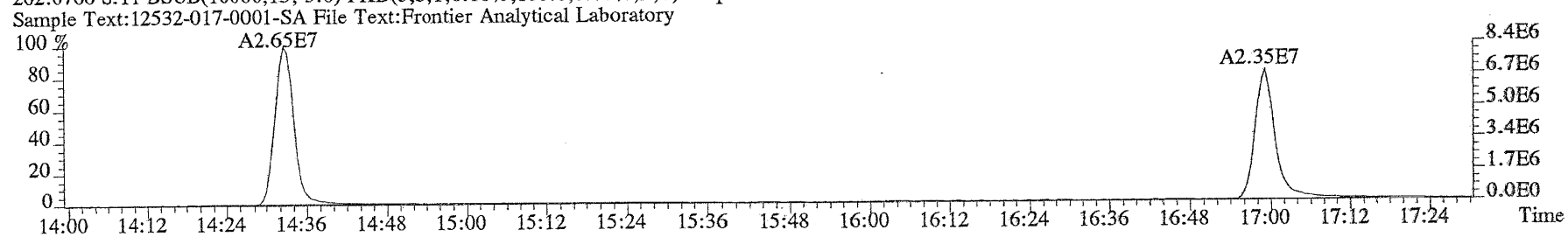
File:25JUL19Z #1-783 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:11 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



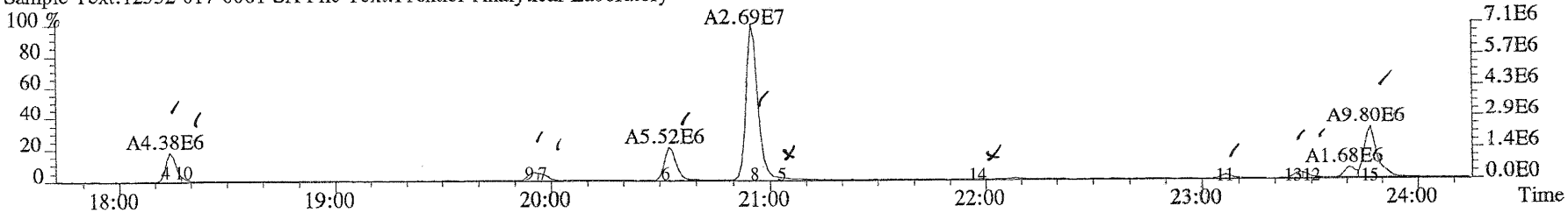
File:25JUL19Z #1-783 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:11 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



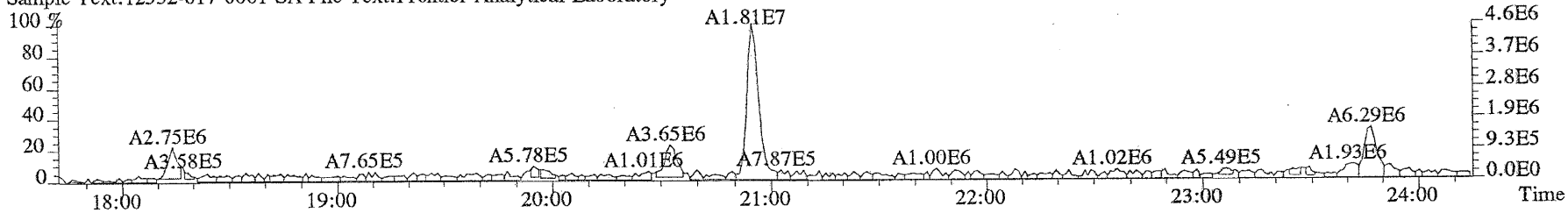
File:25JUL19Z #1-783 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:11 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



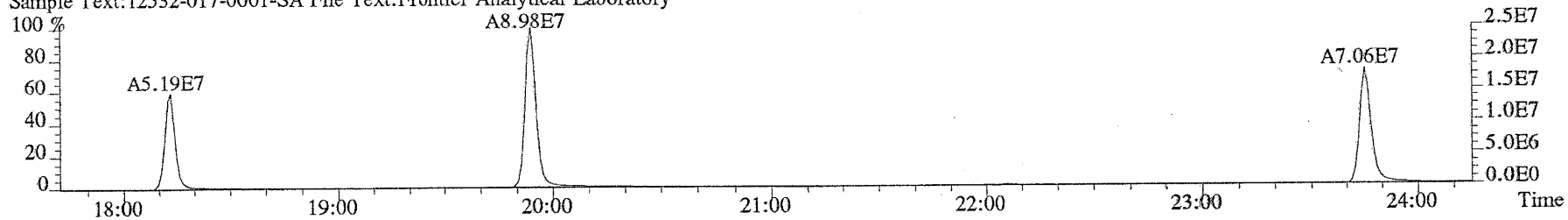
File:25JUL19Z #1-520 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



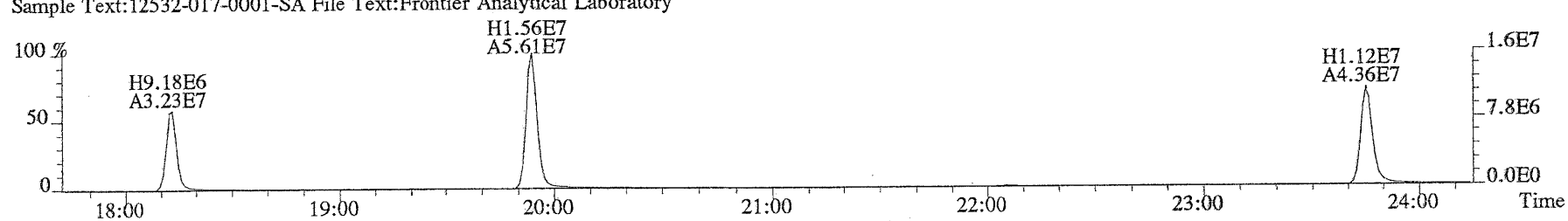
File:25JUL19Z #1-520 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



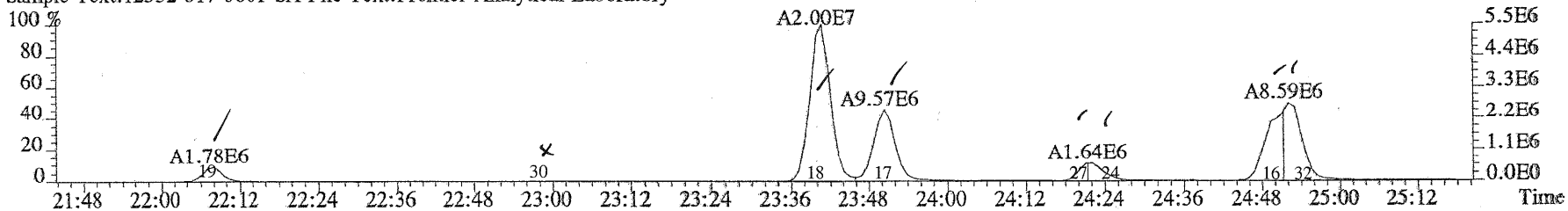
File:25JUL19Z #1-520 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



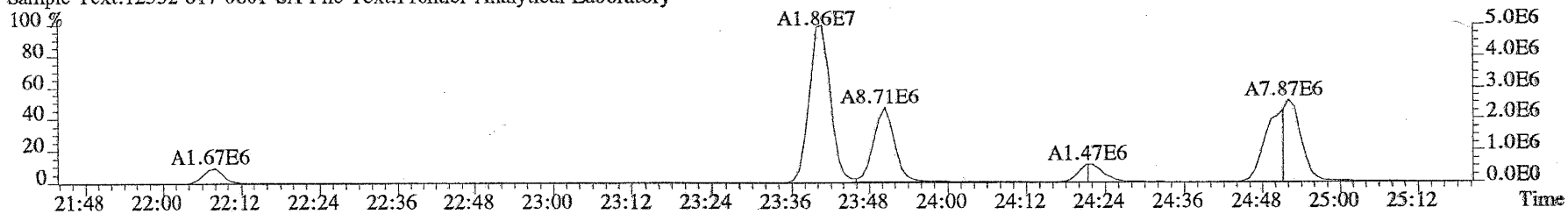
File:25JUL19Z #1-520 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



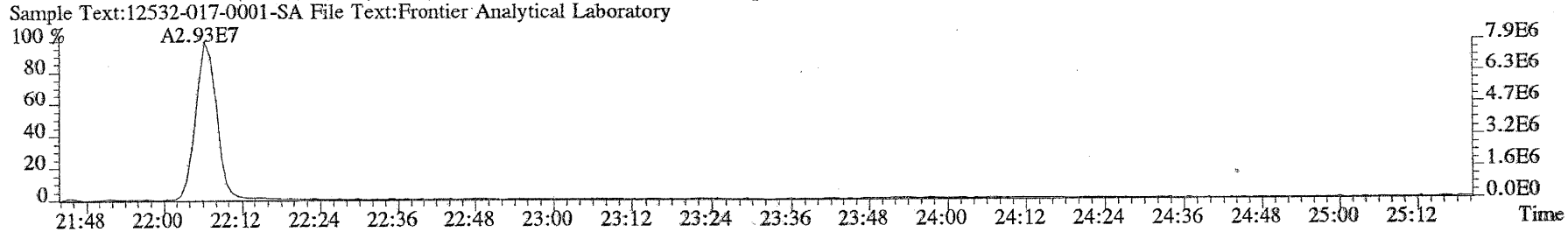
File:25JUL19Z #1-520 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



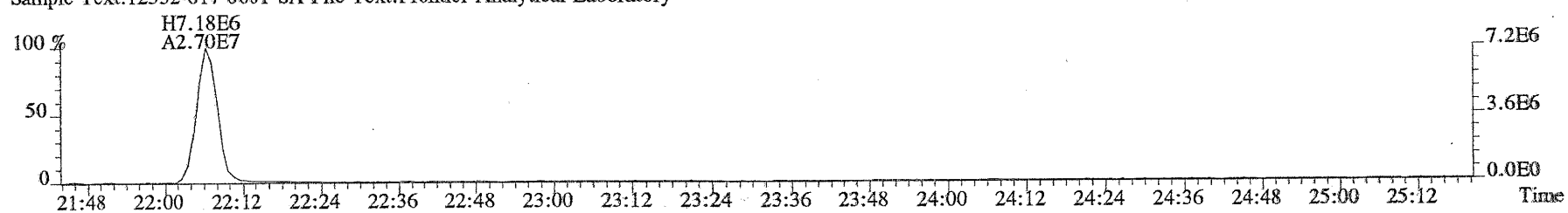
File:25JUL19Z #1-520 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



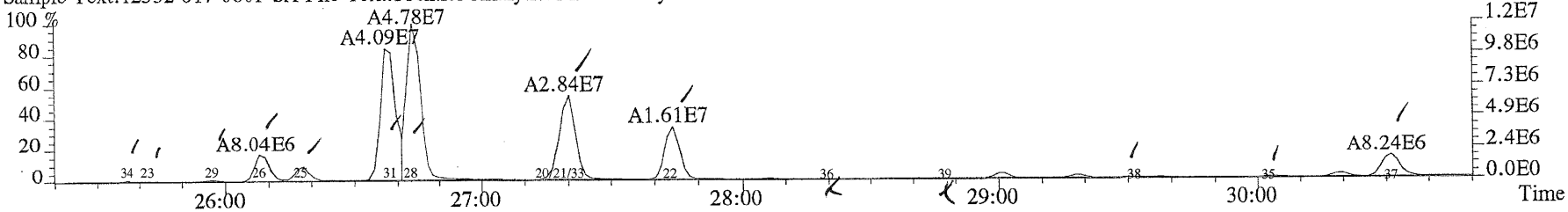
File:25JUL19Z #1-520 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



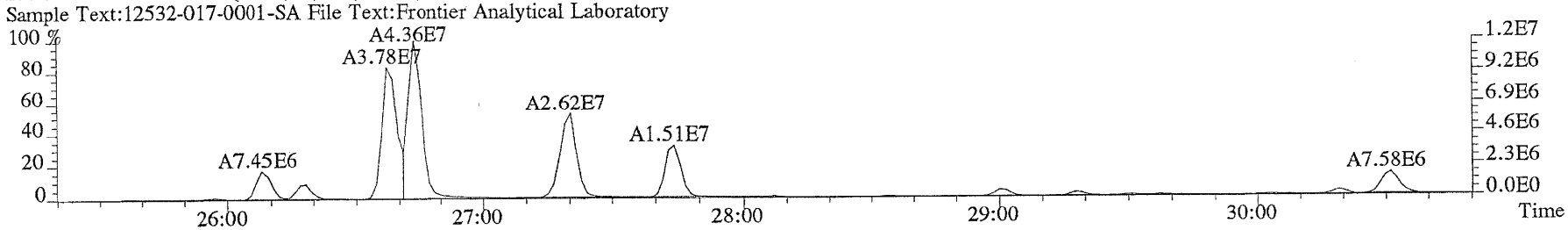
File:25JUL19Z #1-520 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



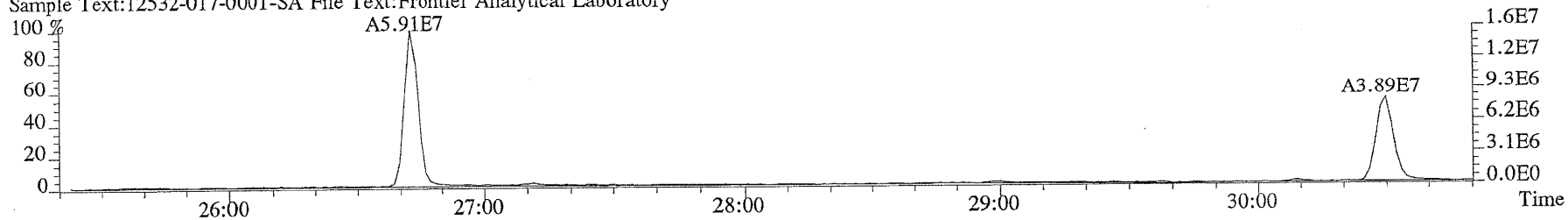
File:25JUL19Z #1-401 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



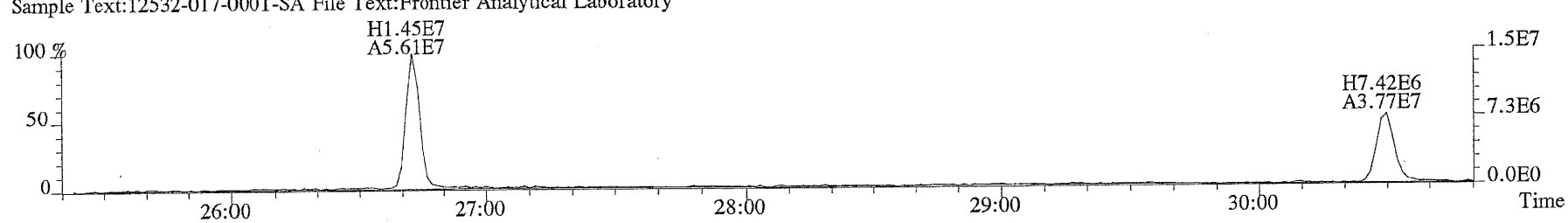
File:25JUL19Z #1-401 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



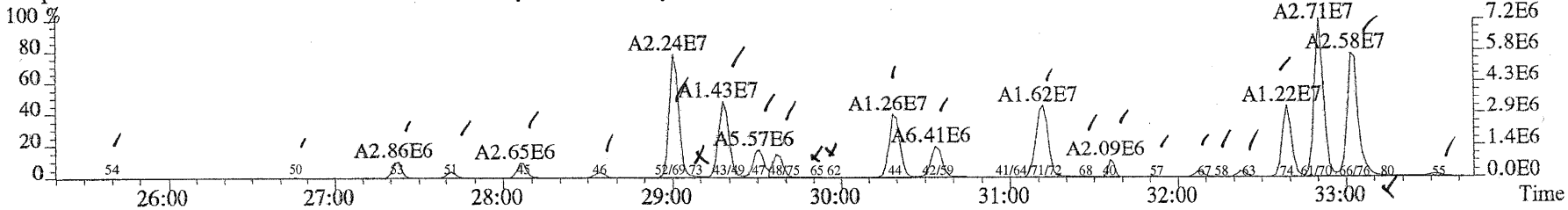
File:25JUL19Z #1-401 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



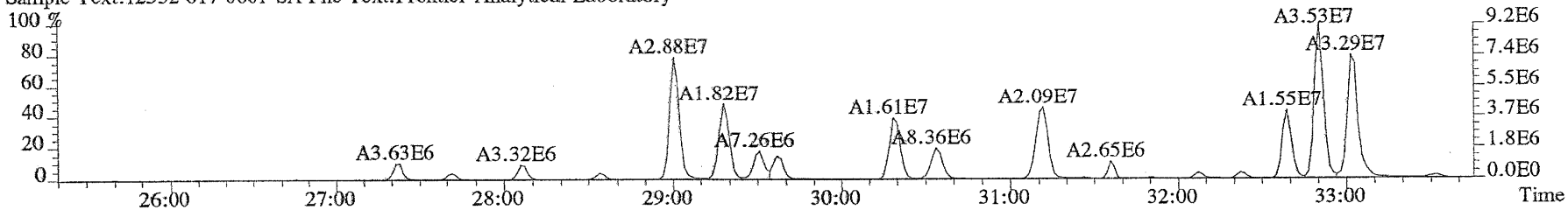
File:25JUL19Z #1-401 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



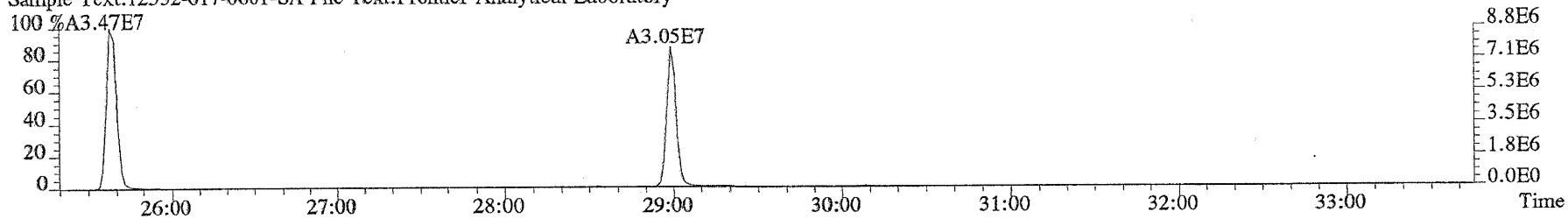
File:25JUL19Z #1-401 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



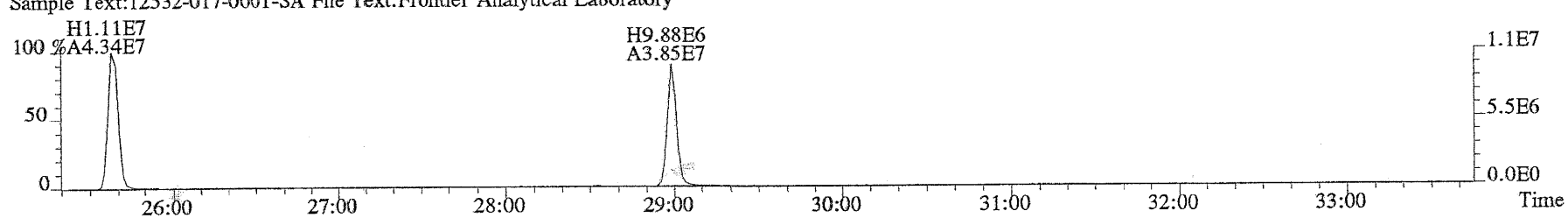
File:25JUL19Z #1-401 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



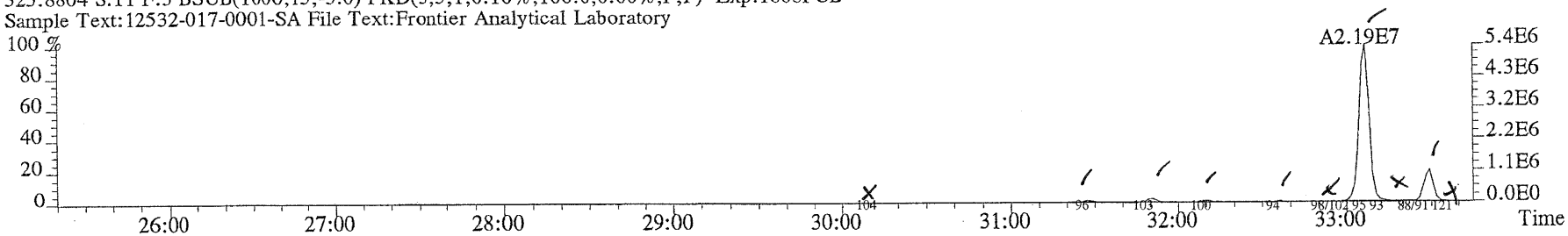
File:25JUL19Z #1-401 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-401 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
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:12532-017-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-401 Acq:25-JUL-2019 20:56:03 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:12532-017-0001-SA File Text:Frontier Analytical Laboratory



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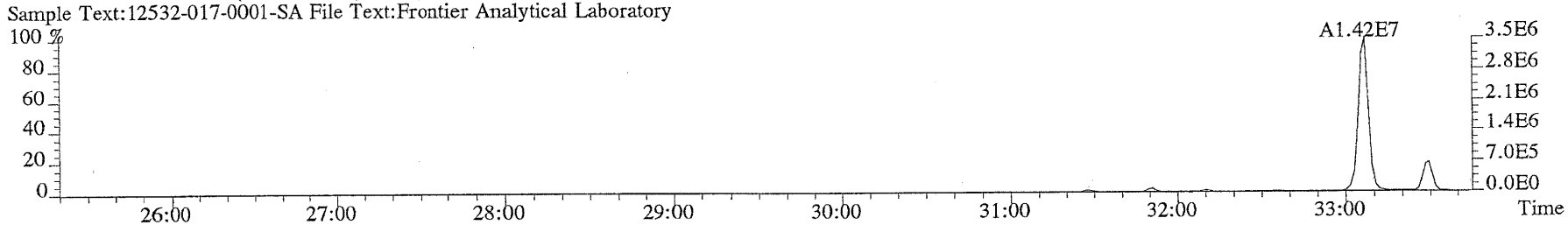
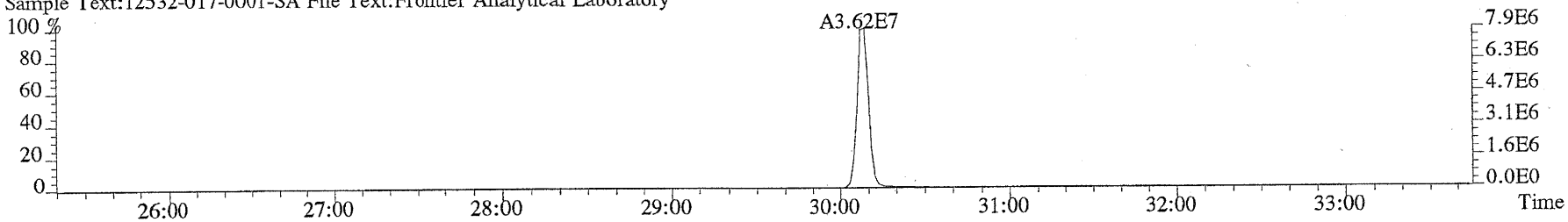
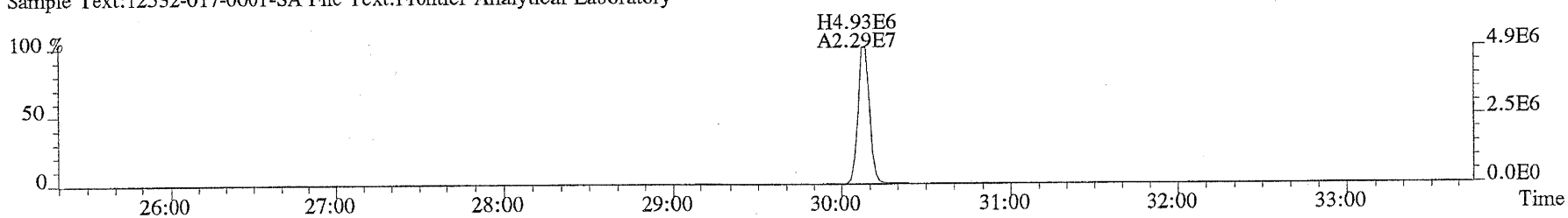
327.8775 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



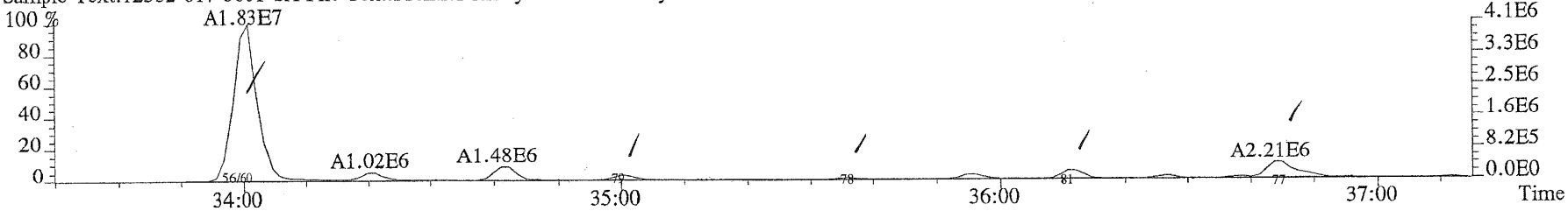
File:25JUL19Z #1-401 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



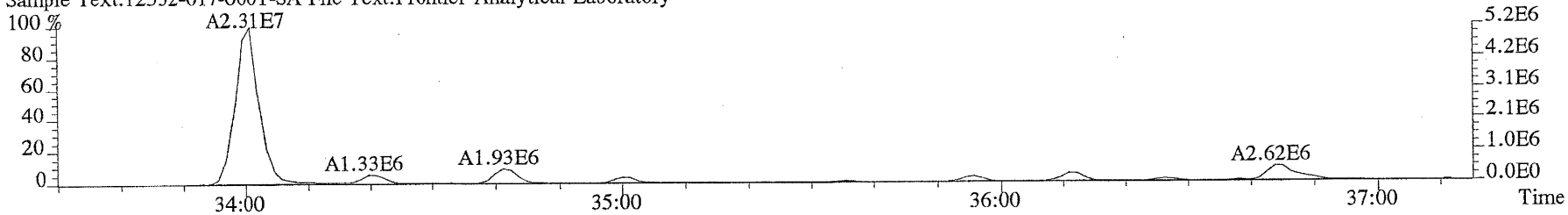
File:25JUL19Z #1-401 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



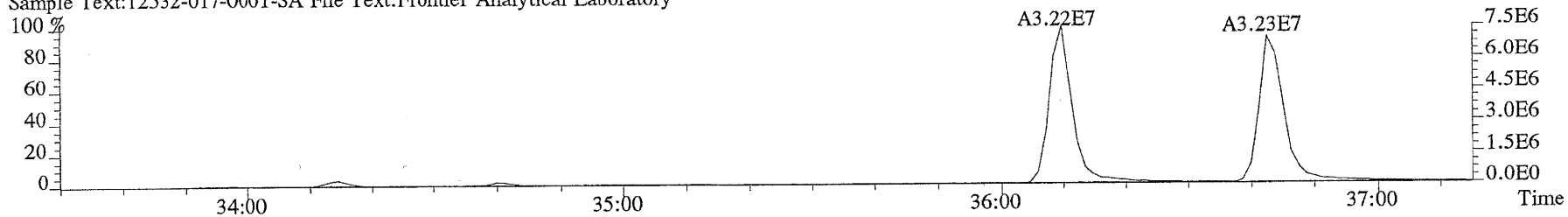
File:25JUL19Z #1-181 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



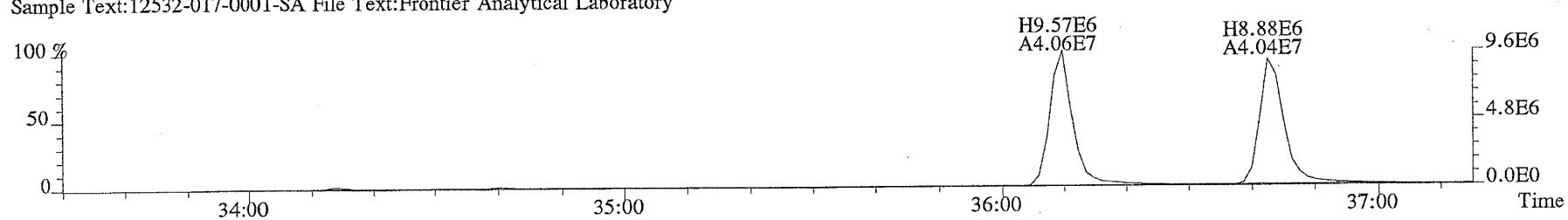
File:25JUL19Z #1-181 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



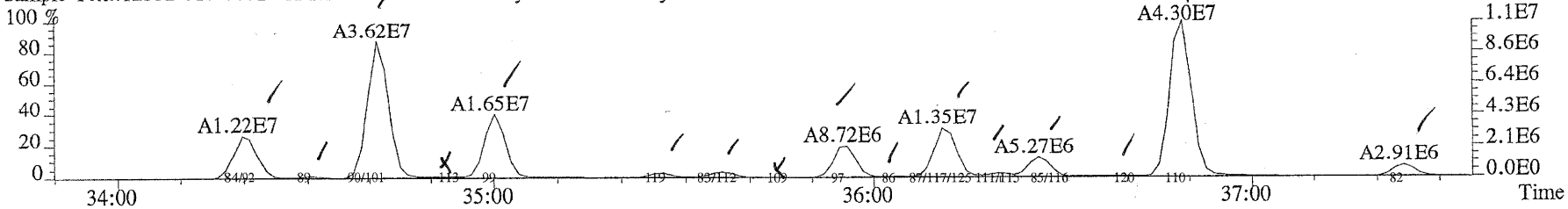
File:25JUL19Z #1-181 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



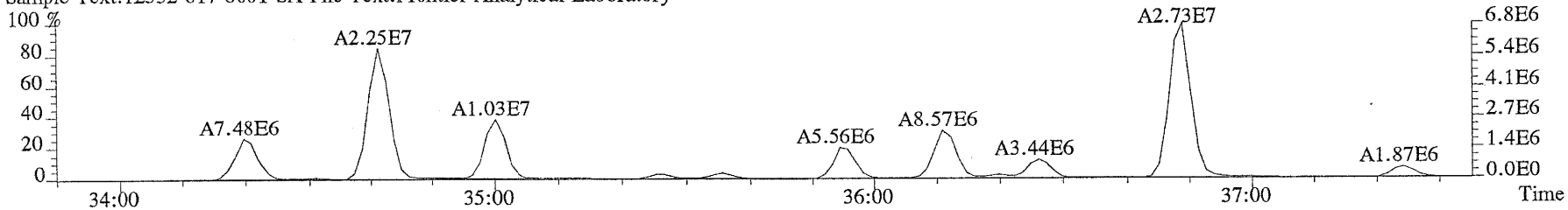
File:25JUL19Z #1-181 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



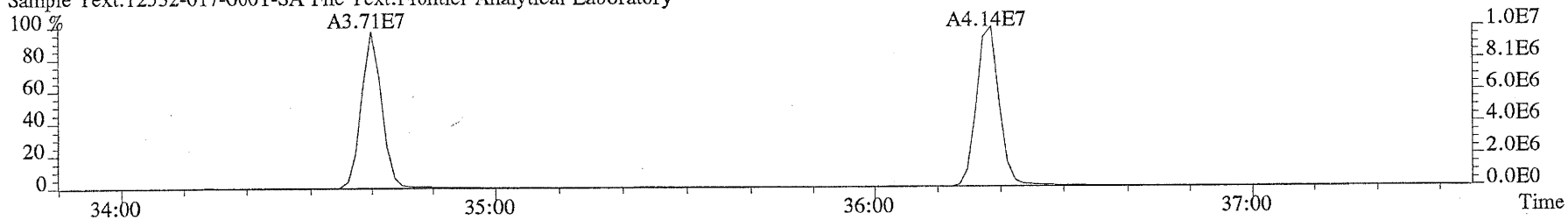
File:25JUL19Z #1-181 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



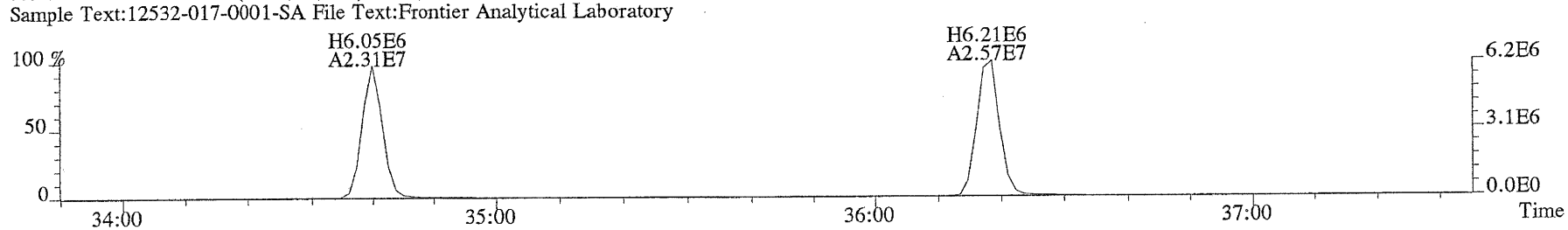
File:25JUL19Z #1-181 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



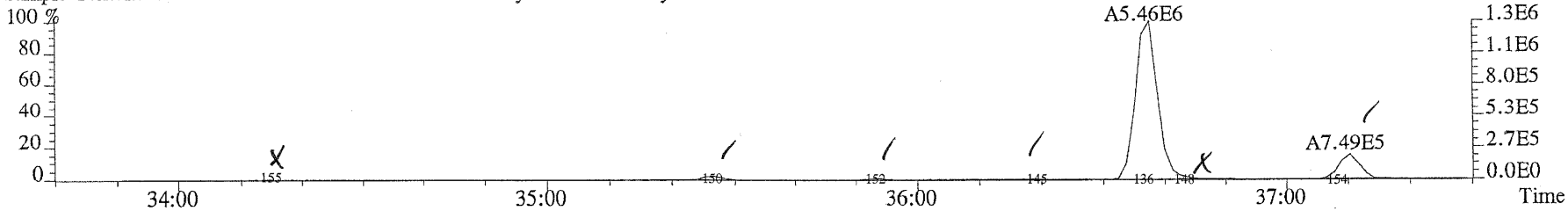
File:25JUL19Z #1-181 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



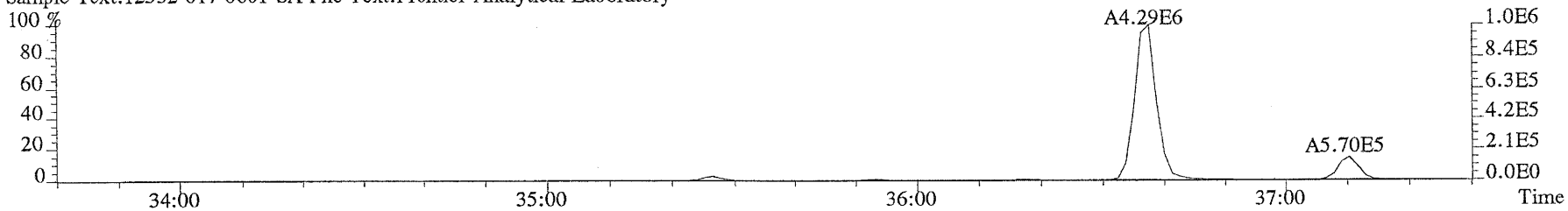
File:25JUL19Z #1-181 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



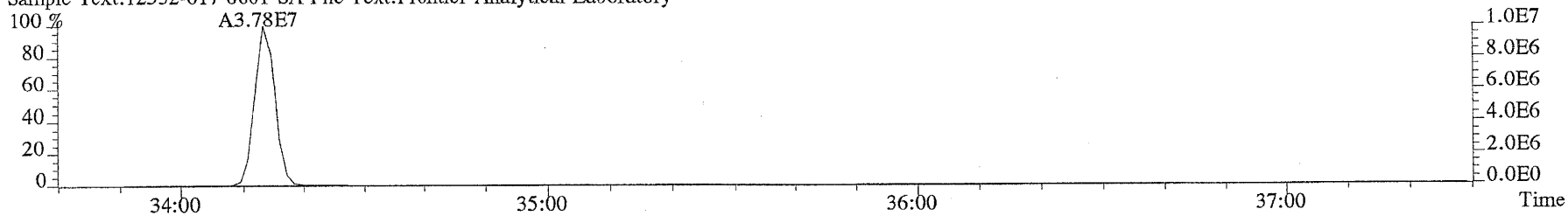
File:25JUL19Z #1-181 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



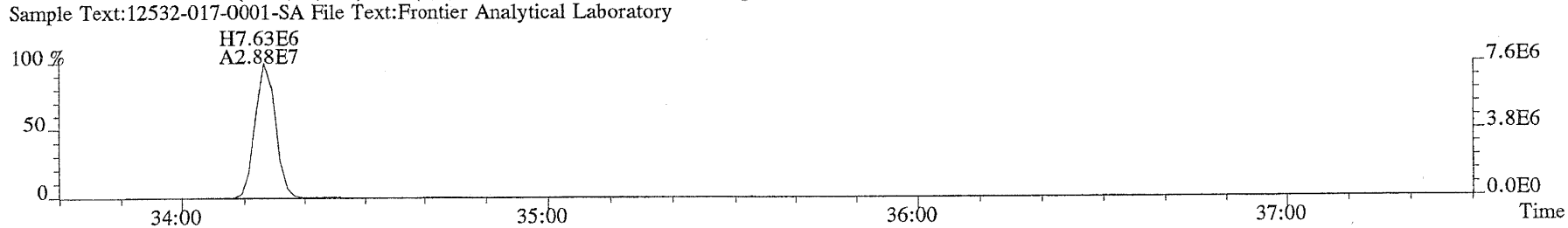
File:25JUL19Z #1-181 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



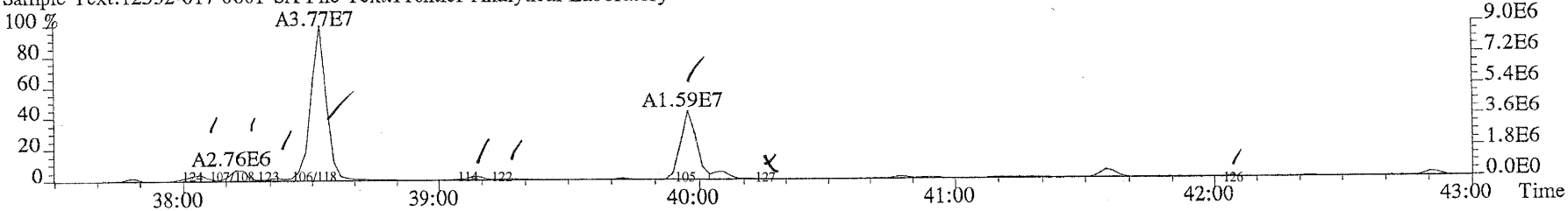
File:25JUL19Z #1-181 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



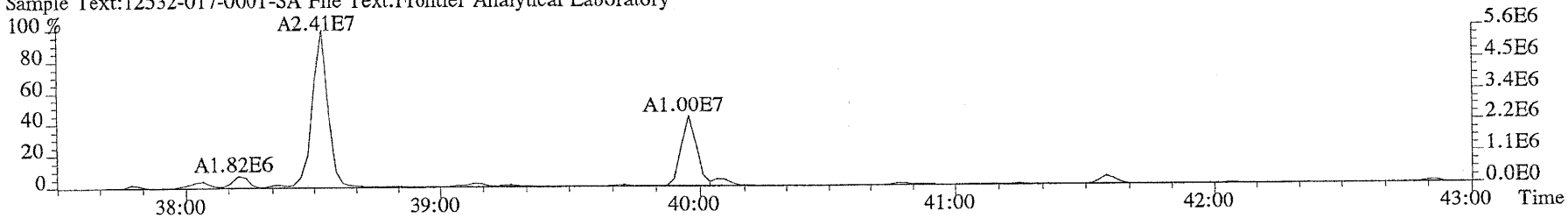
File:25JUL19Z #1-181 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



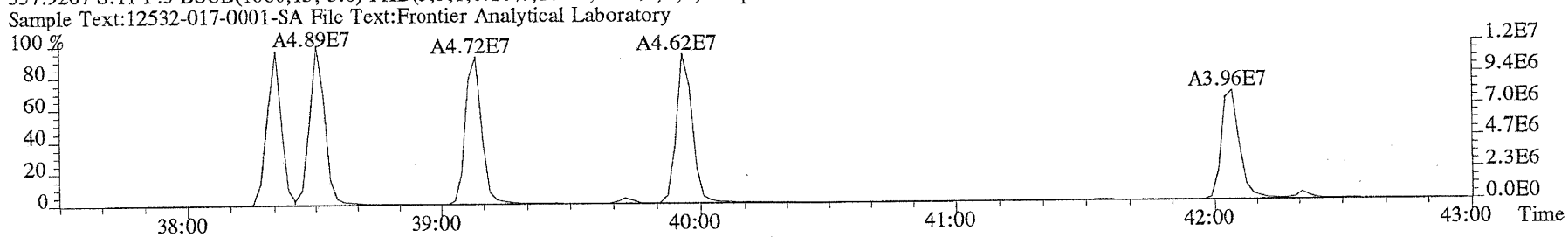
File:25JUL19Z #1-405 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



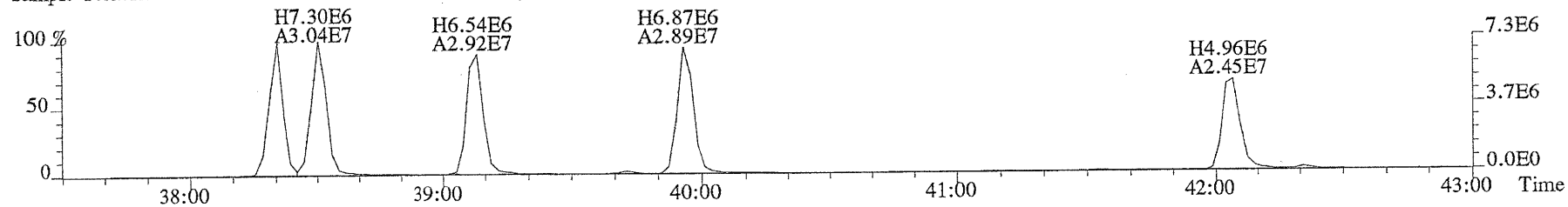
File:25JUL19Z #1-405 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



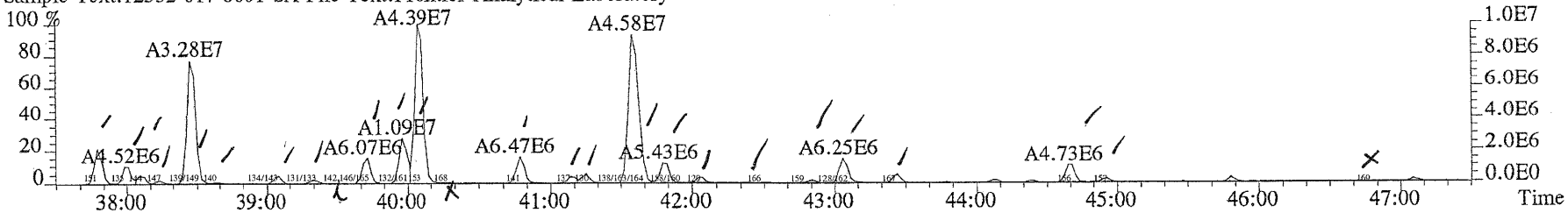
File:25JUL19Z #1-405 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



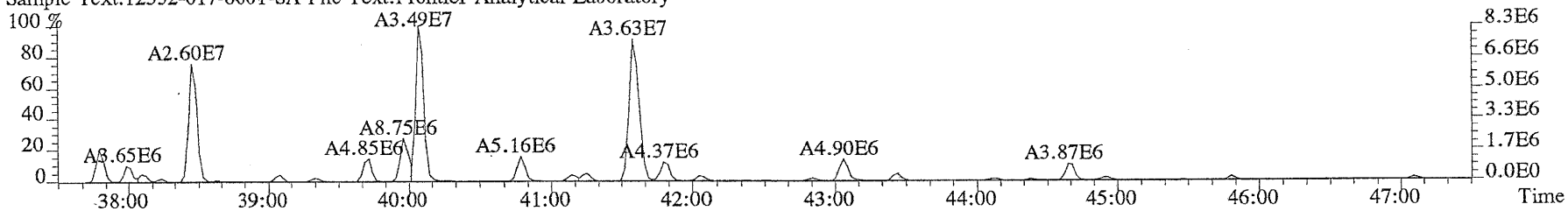
File:25JUL19Z #1-405 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



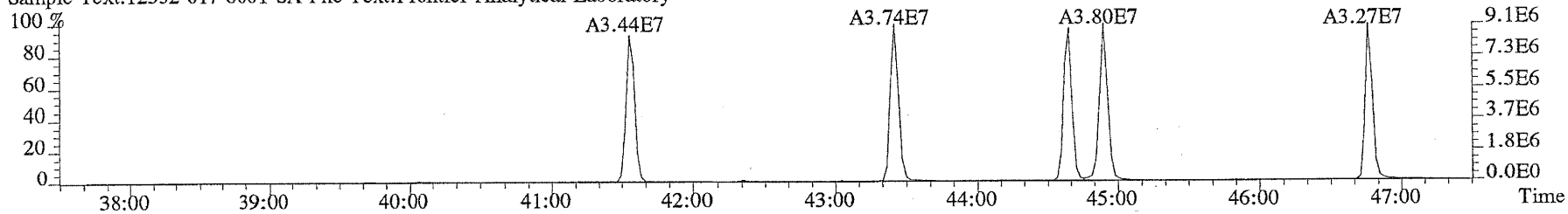
File:25JUL19Z #1-405 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



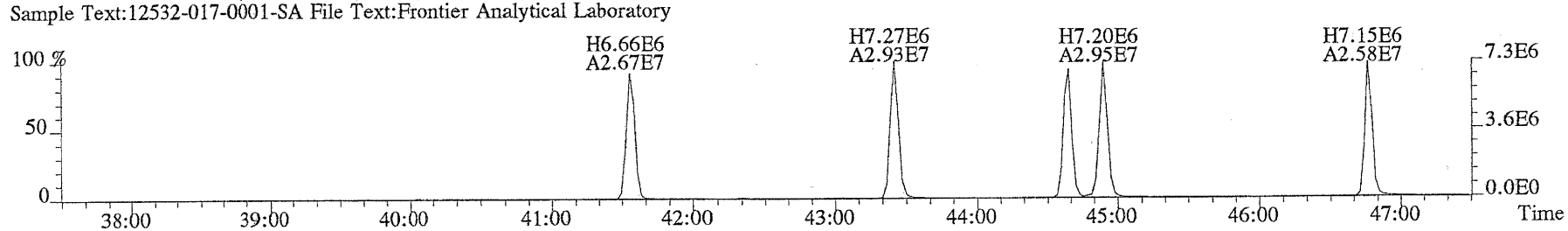
File:25JUL19Z #1-405 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



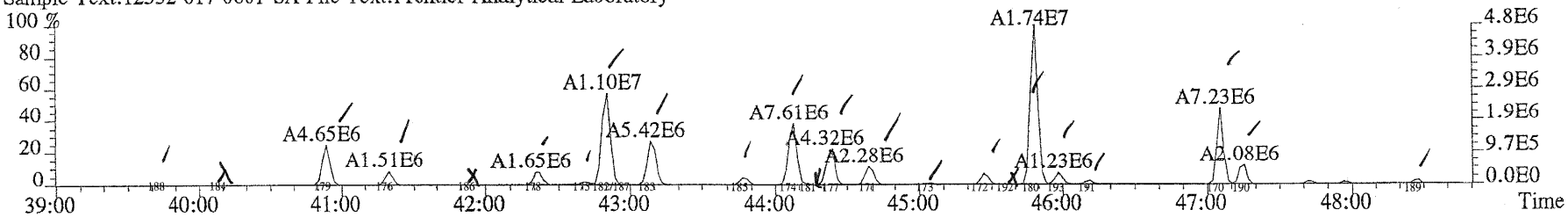
File:25JUL19Z #1-405 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



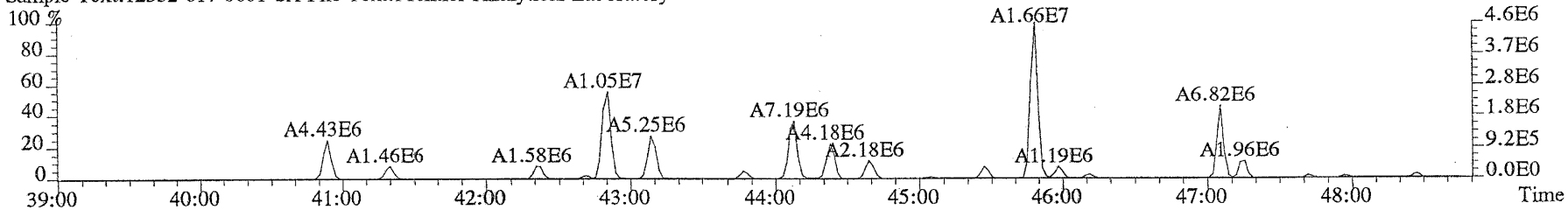
File:25JUL19Z #1-405 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



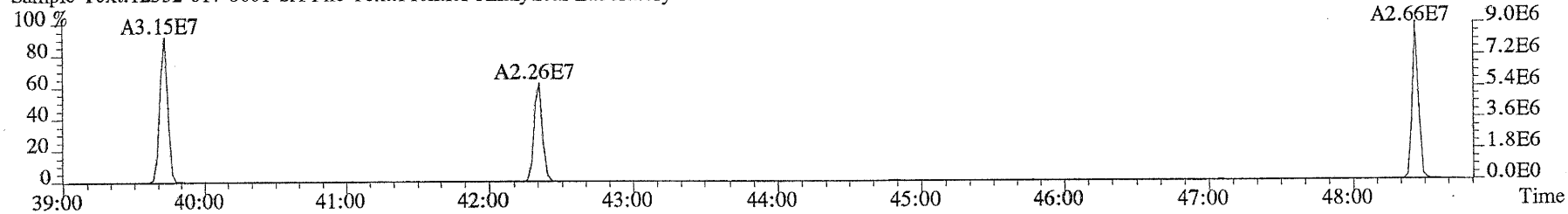
File:25JUL19Z #1-405 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



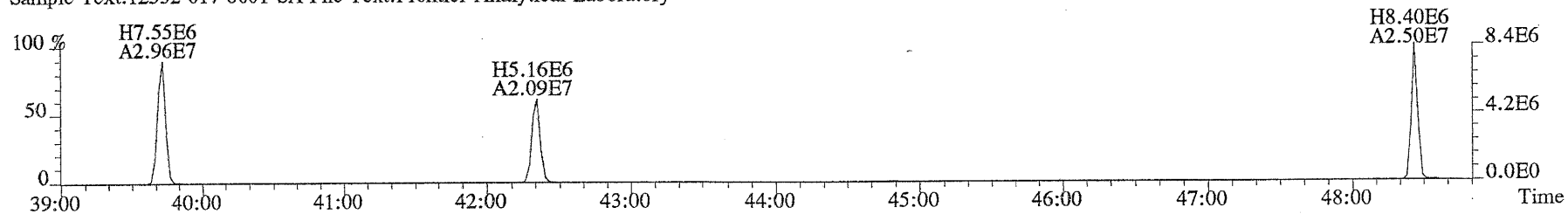
File:25JUL19Z #1-405 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



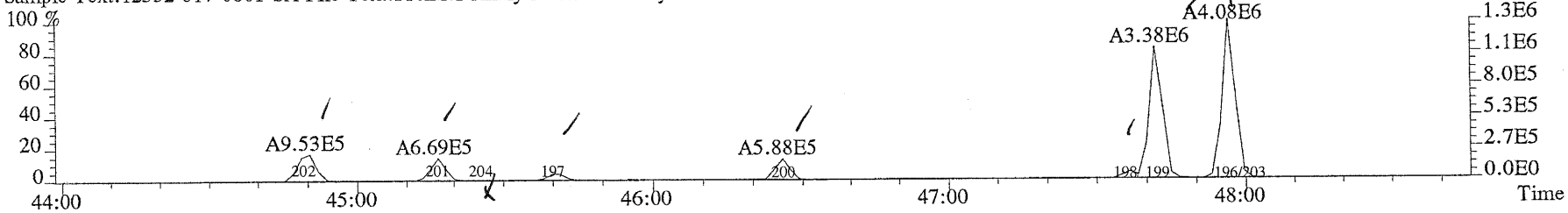
File:25JUL19Z #1-405 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



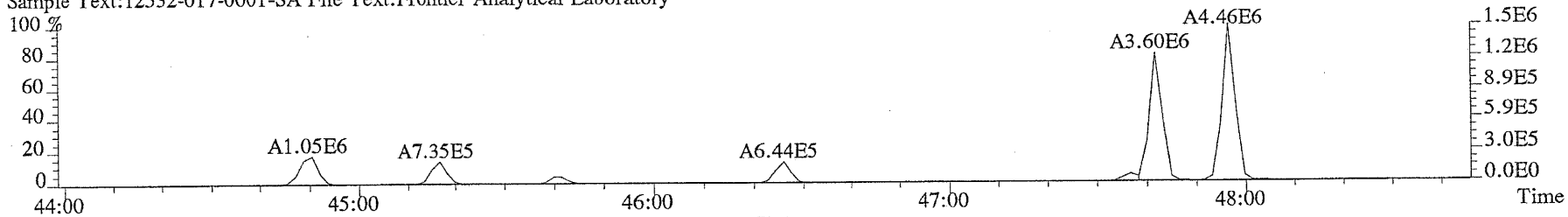
File:25JUL19Z #1-405 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



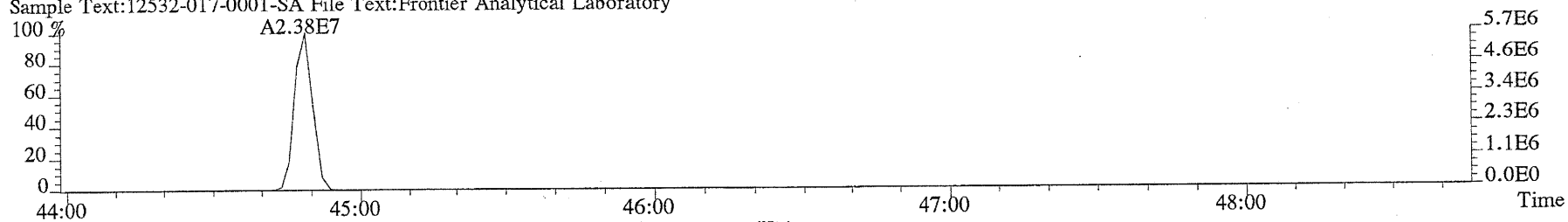
File:25JUL19Z #1-405 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



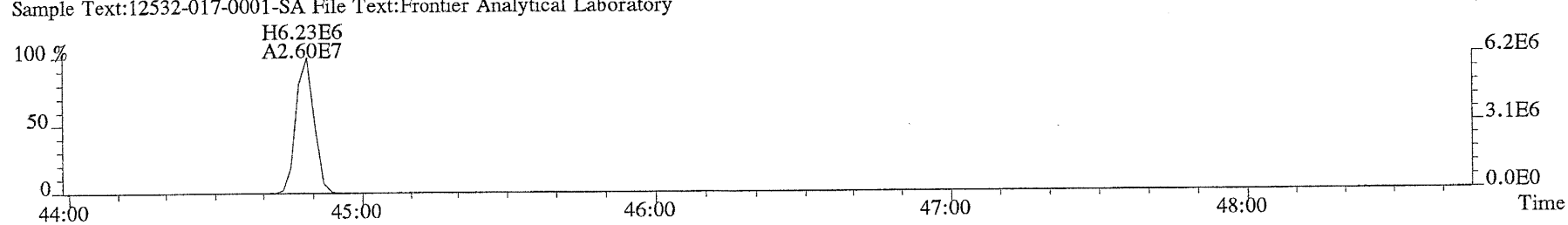
File:25JUL19Z #1-405 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



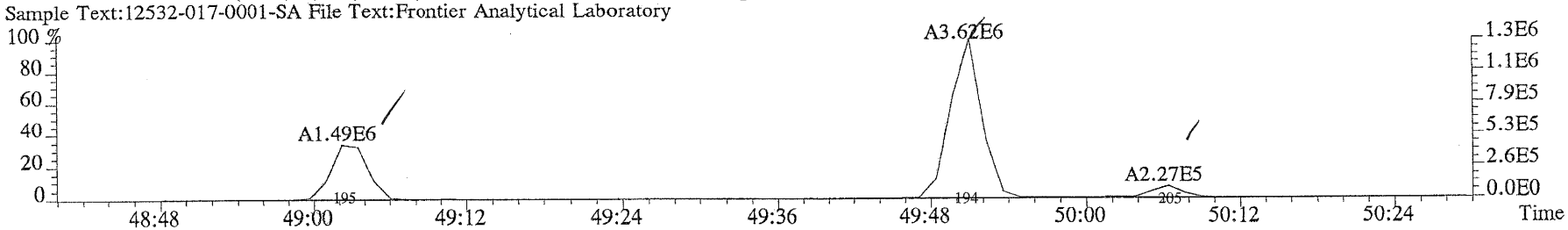
File:25JUL19Z #1-405 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



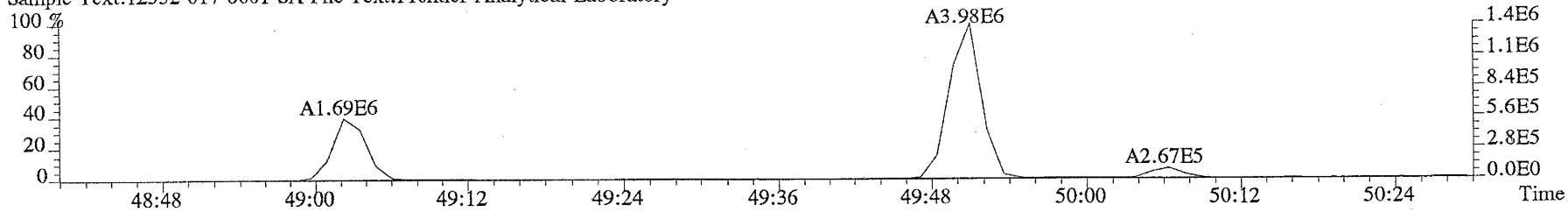
File:25JUL19Z #1-405 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



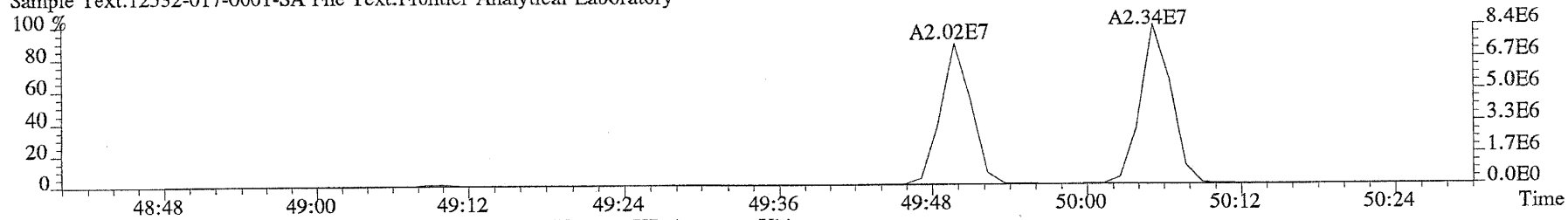
File:25JUL19Z #1-315 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



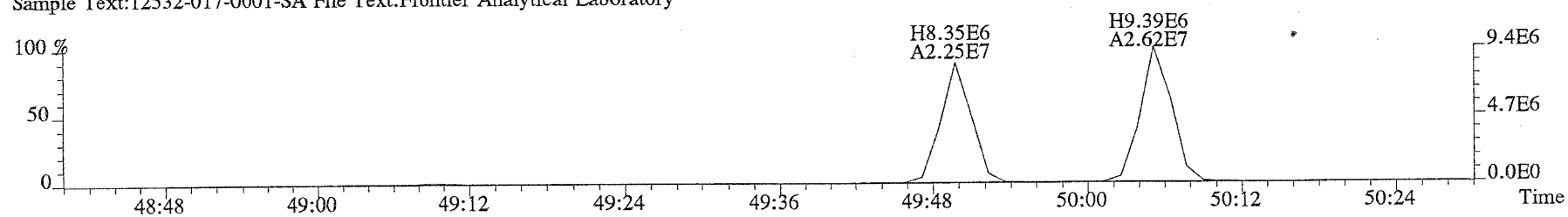
File:25JUL19Z #1-315 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



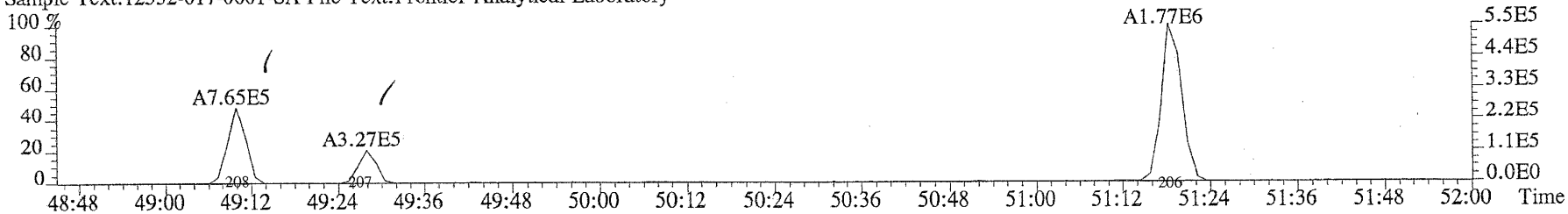
File:25JUL19Z #1-315 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



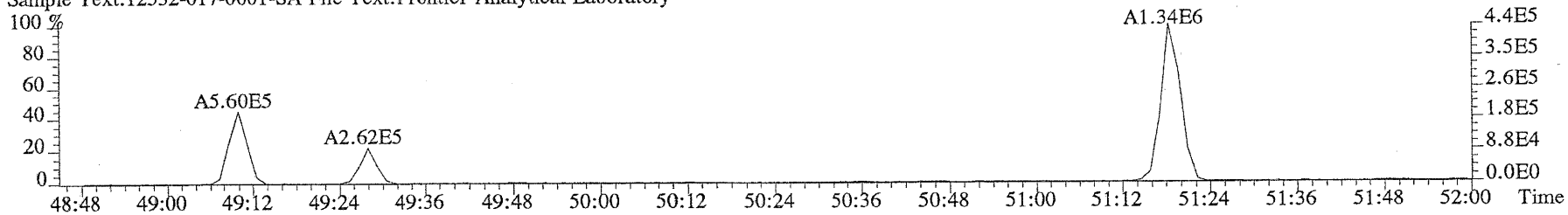
File:25JUL19Z #1-315 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



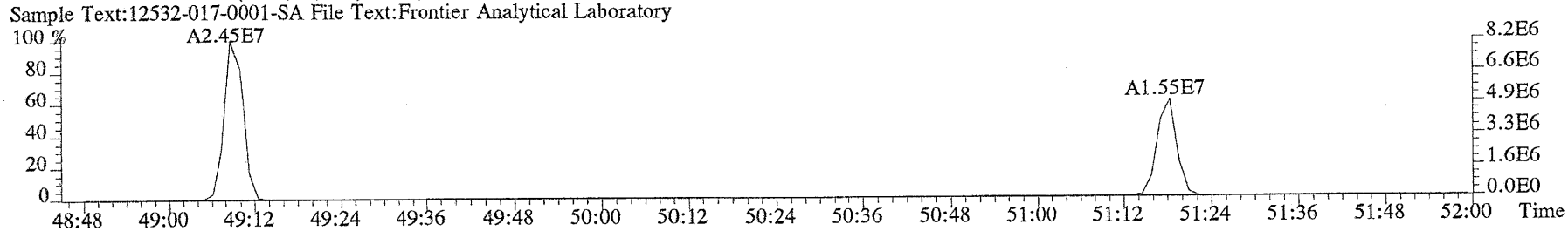
File:25JUL19Z #1-315 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



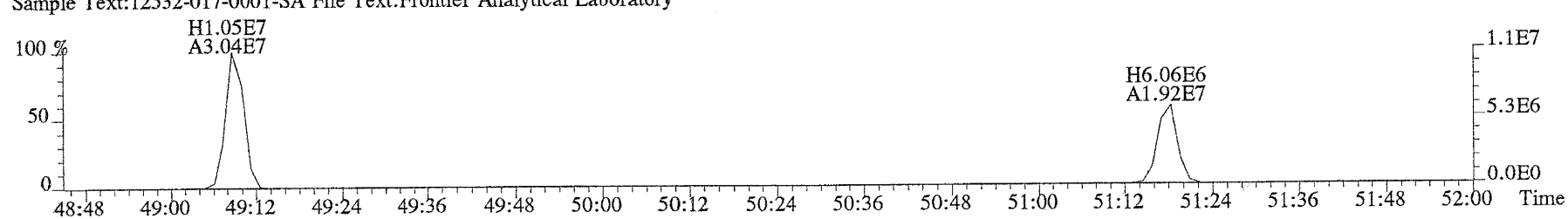
File:25JUL19Z #1-315 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



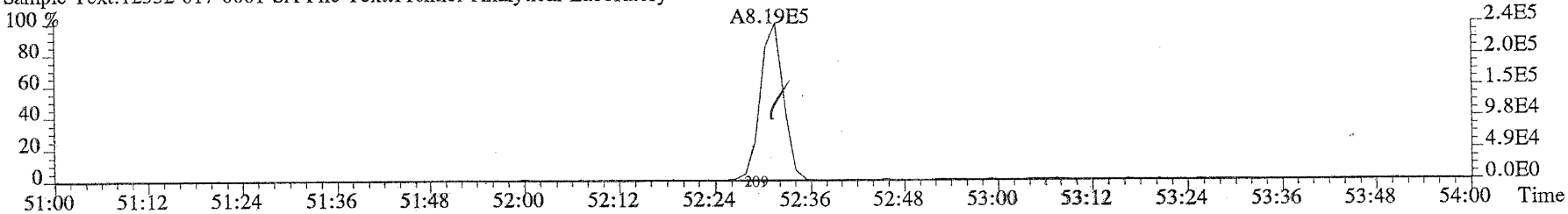
File:25JUL19Z #1-315 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



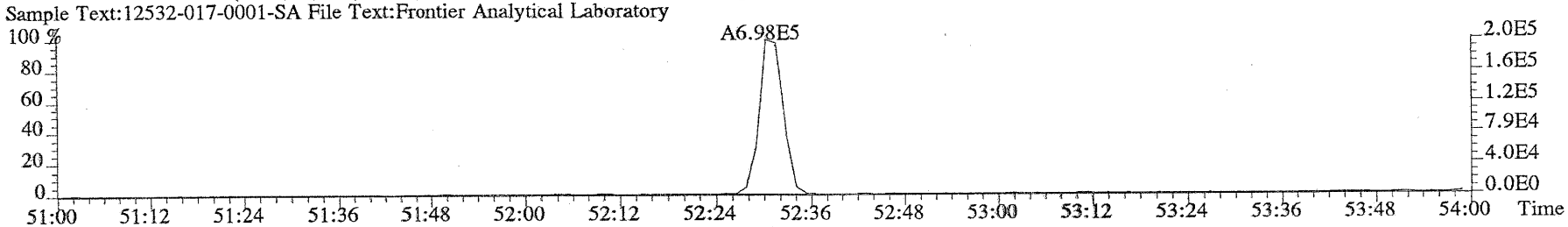
File:25JUL19Z #1-315 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



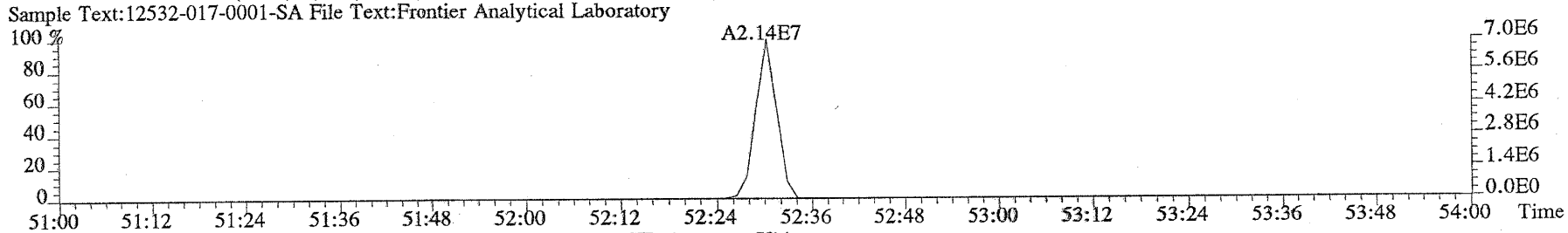
File:25JUL19Z #1-315 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



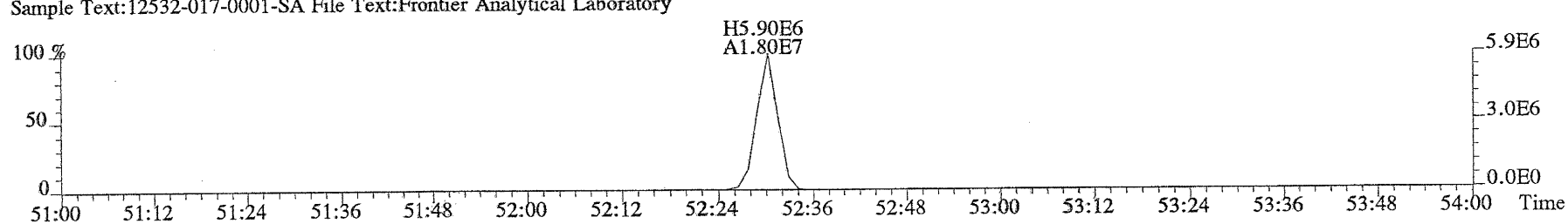
File:25JUL19Z #1-315 Acq:25-JUL-2019 20:56:03 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-017-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 20:56:03 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:12532-017-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 20:56:03 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:12532-017-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12532-018-0001-SA Filename: 25JUL19Z Sam:12 Acquired: 25-JUL-19 21:54:24 ICal: DAILY209FAL4-7-25-19
Client ID: LDW-Y2-SC-ENR+AC-CC-CORE ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 5.020

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.31e+06	3.09 y	14:34	1.17	16.6		-	-	*	
13C-PCB-1	1.35e+08	3.34 y	14:33	0.90	1670					83.6
PCB-2	5.80e+05	3.08 y	16:47	1.20	7.66		-	-	*	
PCB-3	7.02e+05	3.28 y	17:00	1.20	9.99		-	-	*	
13C-PCB-3	1.17e+08	3.29 y	16:59	0.87	1490					74.9
PCB-4	5.27e+06	1.63 y	18:15	1.10	95.1		-	-	*	
PCB-10	6.56e+05	1.47 y	18:17	1.40	8.14		-	-	*	
13C-PCB-4	1.01e+08	1.55 y	18:13	0.66	1710					85.6
PCB-9	1.30e+06	1.54 y	19:55	1.32	17.1		-	-	*	
PCB-7	1.16e+06	1.56 y	19:56	1.48	13.6		-	-	*	
PCB-6	5.71e+06	1.50 y	20:32	1.39	71.2		-	-	*	
PCB-8	2.80e+07	1.47 y	20:54	1.34	360		-	-	*	
PCB-5	*	* n	NotFnd	1.36	*		920	5380	0.722	
PCB-14	*	* n	NotFnd	1.30	*		920	5380	0.759	
PCB-11	9.76e+05	1.42 y	23:06	1.23	13.8		-	-	*	
PCB-13	5.26e+05	1.77 y	23:27	1.18	7.70		-	-	*	
PCB-12	5.29e+05	1.78 y	23:28	1.23	7.45		-	-	*	
PCB-15	6.36e+06	1.56 y	23:45	1.10	88.7		-	-	*	
13C-PCB-15	1.29e+08	1.57 y	23:45	0.90	1610					80.7
PCB-19	2.30e+06	1.08 y	22:08	1.19	56.9		-	-	*	
PCB-30	*	* n	NotFnd	1.80	*		4570	1270	0.881	
PCB-18	2.42e+07	1.08 y	23:40	1.17	605		-	-	*	
PCB-17	1.17e+07	1.07 y	23:50	1.29	267		-	-	*	
PCB-27	1.48e+06	1.07 y	24:21	1.65	26.4		-	-	*	
PCB-24	1.87e+06	1.14 y	24:22	1.76	31.2		-	-	*	
PCB-16	9.85e+06	0.93 y	24:51	1.43	202		-	-	*	
PCB-32	1.04e+07	1.04 y	24:52	1.46	209		-	-	*	
13C-PCB-19	6.77e+07	1.11 y	22:06	0.49	1540					77.4
13C-PCB-9	1.79e+08	1.61 y	19:53	-	21.8					
PCB-34	2.46e+05	1.12 y	25:37	1.20	4.46		-	-	*	
PCB-23	1.13e+05	1.09 y	25:42	1.47	1.67	J	-	-	*	
PCB-29	4.11e+05	1.11 y	25:56	1.34	6.64		-	-	*	
PCB-26	8.53e+06	1.07 y	26:09	1.27	146		-	-	*	
PCB-25	5.01e+06	1.09 y	26:17	1.26	86.4		-	-	*	
PCB-31	4.20e+07	1.05 y	26:38	1.28	713		-	-	*	
PCB-28	5.13e+07	1.10 y	26:44	1.51	740		-	-	*	
PCB-20	2.80e+07	1.08 y	27:19	1.26	481		-	-	*	Co-elute PCB 21/33
PCB-21	2.80e+07	1.08 y	27:19	1.26	481		-	-	*	Co-elute PCB 20/33
PCB-33	2.80e+07	1.08 y	27:19	1.26	481		-	-	*	Co-elute PCB 20/21
PCB-22	1.67e+07	1.08 y	27:43	1.40	258		-	-	*	
PCB-36	*	* n	NotFnd	1.25	*		1500	1450	0.589	
PCB-39	*	* n	NotFnd	1.24	*		1500	1450	0.591	
PCB-38	4.00e+05	1.02 y	29:31	1.29	6.71		-	-	*	
PCB-35	4.34e+05	1.20 y	30:04	1.13	8.33		-	-	*	
PCB-37	6.01e+06	1.02 y	30:30	1.19	110		-	-	*	
13C-PCB-37	9.17e+07	1.08 y	30:29	1.40	1520					76.2

PCB-54	1.26e+05	0.75	y	25:39	1.22	2.08	J	-	-	*	
PCB-50	1.25e+05	0.88	y	26:45	0.89	2.84	J	-	-	*	
PCB-53	3.92e+06	0.80	y	27:22	0.86	91.7		-	-	*	
PCB-51	1.48e+06	0.78	y	27:41	0.92	32.5		-	-	*	
PCB-45	3.65e+06	0.81	y	28:06	0.74	99.6		-	-	*	
PCB-46	1.43e+06	0.78	y	28:34	0.70	40.9		-	-	*	
PCB-52	2.77e+07	0.78	y	29:01	0.90	619		-	-	*	Co-elute PCB 69
PCB-69	2.77e+07	0.78	y	29:01	0.90	619		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.12	*		1570	1410	0.529	
PCB-43	1.95e+07	0.77	y	29:17	0.78	507		-	-	*	Co-elute PCB 49
PCB-49	1.95e+07	0.77	y	29:17	0.78	507		-	-	*	Co-elute PCB 43
PCB-47	7.83e+06	0.78	y	29:30	0.85	186		-	-	*	
PCB-48	6.46e+06	0.79	y	29:37	1.01	129		-	-	*	Co-elute PCB 75
PCB-75	6.46e+06	0.79	y	29:37	1.01	129		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*		1570	1410	0.583	
PCB-62	*	*	n	NotFnd	1.07	*		1570	1410	0.553	
PCB-44	1.66e+07	0.77	y	30:19	0.67	505		-	-	*	
PCB-42	9.23e+06	0.78	y	30:33	0.89	209		-	-	*	Co-elute PCB 59
PCB-59	9.23e+06	0.78	y	30:33	0.89	209		-	-	*	Co-elute PCB 42
PCB-72	2.25e+07	0.79	y	31:11	1.00	453		-	-	*	Co-elute PCB 41/71/64
PCB-41	2.25e+07	0.79	y	31:11	1.00	453		-	-	*	Co-elute PCB 72/71/64
PCB-71	2.25e+07	0.79	y	31:11	1.00	453		-	-	*	Co-elute PCB 72/41/64
PCB-64	2.25e+07	0.79	y	31:11	1.00	453		-	-	*	Co-elute PCB 72/41/71
PCB-68	3.12e+05	0.67	y	31:20	1.14	5.52		-	-	*	
PCB-40	2.81e+06	0.79	y	31:30	0.61	93.0		-	-	*	
PCB-57	2.44e+05	0.83	y	31:49	1.07	4.60		-	-	*	
PCB-67	1.15e+06	0.75	y	32:06	0.99	23.3		-	-	*	
PCB-58	7.78e+04	0.82	y	32:13	1.11	1.41	J	-	-	*	
PCB-63	1.20e+06	0.74	y	32:22	1.05	23.1		-	-	*	
PCB-74	1.31e+07	0.79	y	32:38	1.02	260		-	-	*	
PCB-61	2.92e+07	0.78	y	32:49	0.97	610		-	-	*	Co-elute PCB 70
PCB-70	2.92e+07	0.78	y	32:49	0.97	610		-	-	*	Co-elute PCB 61
PCB-76	2.71e+07	0.80	y	33:01	1.05	521		-	-	*	Co-elute PCB 66
PCB-66	2.71e+07	0.80	y	33:01	1.05	521		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.24	*		1570	1410	0.477	
PCB-55	8.39e+05	0.75	y	33:31	1.06	16.0		-	-	*	
13C-PCB-54	9.86e+07	0.81	y	25:38	1.36	1680					84.5
PCB-104	*	*	n	NotFnd	1.10	*		464	608	0.291	
PCB-96	2.15e+05	1.45	y	31:22	1.04	5.38		-	-	*	
PCB-103	4.21e+05	1.60	y	31:49	0.84	13.0		-	-	*	
PCB-100	2.42e+05	1.56	y	32:09	0.85	7.38		-	-	*	
PCB-94	1.26e+05	1.40	y	32:34	0.69	4.79		-	-	*	
PCB-98	*	*	n	NotFnd	0.69	*		464	608	0.463	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.69	*		464	608	0.463	Co-elute PCB 98
PCB-95	3.42e+06	1.48	y	33:27	0.77	115		-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*		464	608	0.410	
PCB-88	3.42e+06	1.48	y	33:27	0.83	107		-	-	*	Co-elute PCB 91
PCB-91	3.42e+06	1.48	y	33:27	0.83	107		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.89	*		464	608	0.359	
13C-PCB-104	7.68e+07	1.58	y	30:08	1.06	1670					84.0
13C-PCB-28	1.37e+08	1.05	y	26:41	1.72	1840					92.4
13C-PCB-52	8.59e+07	0.80	y	28:59	-	22.8					

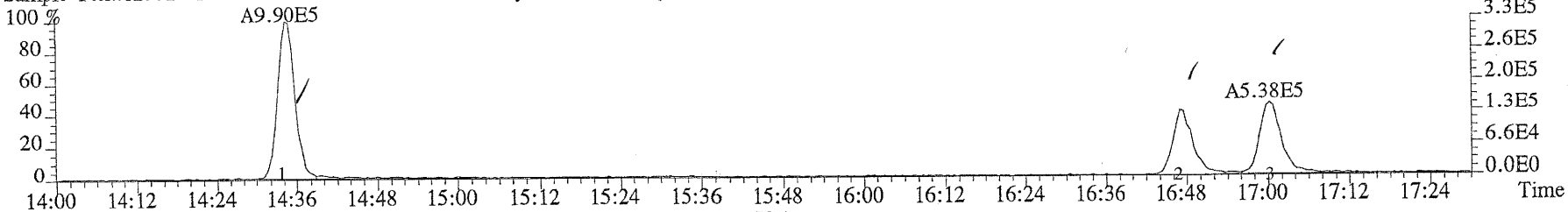
PCB-56	1.93e+07	0.81	y	34:00	1.17	403		-	-	*	Co-elute PCB 60
PCB-60	1.93e+07	0.81	y	34:00	1.17	403		-	-	*	Co-elute PCB 56
PCB-79	6.73e+05	0.76	y	34:59	1.22	13.5		-	-	*	
PCB-78	1.72e+05	0.87	y	35:35	1.16	3.62	J	-	-	*	
PCB-81	8.99e+05	0.75	y	36:11	1.25	17.6		-	-	*	
13C-PCB-81	8.14e+07	0.79	y	36:09	1.37	1610					81.0
PCB-77	1.65e+06	0.85	y	36:44	1.06	38.2		-	-	*	
13C-PCB-77	8.14e+07	0.80	y	36:42	1.44	1530					77.0
PCB-155	*	*	n	NotFnd	1.04	*		648	576	0.284	
PCB-150	1.46e+05	1.34	y	35:26	0.95	3.79	J	-	-	*	
PCB-152	4.02e+04	1.35	y	35:52	0.90	1.09	J	-	-	*	
PCB-145	*	*	n	NotFnd	0.93	*		648	576	0.318	
PCB-136	5.06e+06	1.24	y	36:37	0.93	133		-	-	*	
PCB-148	*	*	n	NotFnd	0.62	*		648	576	0.473	
PCB-154	7.19e+05	1.23	y	37:10	0.75	23.5		-	-	*	
13C-PCB-155	8.12e+07	1.31	y	34:13	1.44	1530					76.8
13C-PCB-111	7.82e+07	1.64	y	36:18	1.22	1740					87.1
13C-PCB-101	7.35e+07	1.61	y	34:39	-	24.0					
PCB-84	9.61e+06	1.58	y	34:19	0.83	258		-	-	*	Co-elute PCB 92
PCB-92	9.61e+06	1.58	y	34:19	0.83	258		-	-	*	Co-elute PCB 84
PCB-89	3.39e+05	1.73	y	34:30	0.81	9.31		-	-	*	
PCB-90	2.89e+07	1.59	y	34:40	0.89	726		-	-	*	Co-elute PCB 101
PCB-101	2.89e+07	1.59	y	34:40	0.89	726		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.02	*		1550	1290	0.654	
PCB-99	1.40e+07	1.61	y	34:59	0.98	320		-	-	*	
PCB-119	9.94e+05	1.60	y	35:26	1.13	19.5		-	-	*	
PCB-83	1.18e+06	1.60	y	35:35	0.90	29.3		-	-	*	Co-elute PCB 112
PCB-112	1.18e+06	1.60	y	35:35	0.90	29.3		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.08	*		1550	1290	0.617	
PCB-97	6.93e+06	1.57	y	35:55	0.73	213		-	-	*	
PCB-86	1.80e+05	1.38	y	36:03	0.79	5.07		-	-	*	
PCB-125	1.07e+07	1.57	y	36:11	0.97	244		-	-	*	Co-elute PCB 87/117
PCB-87	1.07e+07	1.57	y	36:11	0.97	244		-	-	*	Co-elute PCB 125/117
PCB-117	1.07e+07	1.57	y	36:11	0.97	244		-	-	*	Co-elute PCB 125/87
PCB-111	7.53e+05	1.57	y	36:19	1.13	14.8		-	-	*	Co-elute PCB 115
PCB-115	7.53e+05	1.57	y	36:19	1.13	14.8		-	-	*	Co-elute PCB 111
PCB-85	4.41e+06	1.56	y	36:25	0.97	101		-	-	*	Co-elute PCB 116
PCB-116	4.41e+06	1.56	y	36:25	0.97	101		-	-	*	Co-elute PCB 85
PCB-120	1.89e+05	1.56	y	36:38	1.18	3.58	J	-	-	*	
PCB-110	3.32e+07	1.60	y	36:48	1.10	671		-	-	*	
PCB-82	2.28e+06	1.55	y	37:23	0.62	81.7		-	-	*	
PCB-124	1.50e+06	1.65	y	38:03	1.10	30.2		-	-	*	
PCB-108	2.20e+06	1.58	y	38:13	1.20	41.0		-	-	*	Co-elute PCB 107
PCB-107	2.20e+06	1.58	y	38:13	1.20	41.0		-	-	*	Co-elute PCB 108
PCB-123	4.42e+05	1.61	y	38:21	1.01	9.95		-	-	*	
13C-PCB-123	8.76e+07	1.58	y	38:19	1.31	1830					91.6
PCB-118	2.65e+07	1.63	y	38:31	1.09	522		-	-	*	Co-elute PCB 106
PCB-106	2.65e+07	1.63	y	38:31	1.09	522		-	-	*	Co-elute PCB 118
13C-PCB-118	9.30e+07	1.62	y	38:29	1.46	1740					87.5
PCB-114	8.24e+05	1.57	y	39:07	1.14	15.9		-	-	*	
13C-PCB-114	9.10e+07	1.57	y	39:07	1.34	1860					93.5
PCB-122	4.39e+05	1.46	y	39:15	1.16	8.42		-	-	*	
PCB-105	1.08e+07	1.58	y	39:57	1.19	209		-	-	*	
13C-PCB-105	8.63e+07	1.61	y	39:55	1.32	1790					90.0

PCB-127	*	*	n	NotFnd	1.06	*		1670	2040	0.828		
PCB-126	1.70e+05	1.49	y	42:03	1.13	4.20		-	-	*		
13C-PCB-126	7.11e+07	1.60	y	42:03	1.20	1630					81.6	
PCB-151	7.56e+06	1.27	y	37:47	0.98	200		-	-	*		
PCB-135	4.09e+06	1.20	y	38:00	0.92	115		-	-	*		
PCB-144	1.77e+06	1.28	y	38:05	1.05	43.5		-	-	*		
PCB-147	7.02e+05	1.29	y	38:13	1.09	16.7		-	-	*		
PCB-139	2.87e+07	1.25	y	38:28	1.08	691		-	-	*	Co-elute PCB 149	
PCB-149	2.87e+07	1.25	y	38:28	1.08	691		-	-	*	Co-elute PCB 139	
PCB-140	2.61e+05	1.27	y	38:38	1.07	6.33		-	-	*		
PCB-143	1.48e+06	1.14	y	39:04	0.86	44.9		-	-	*	Co-elute PCB 134	
PCB-134	1.48e+06	1.14	y	39:04	0.86	44.9		-	-	*	Co-elute PCB 143	
PCB-131	8.83e+05	1.18	y	39:19	0.85	26.9		-	-	*	Co-elute PCB 133	
PCB-133	8.83e+05	1.18	y	39:19	0.85	26.9		-	-	*	Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.86	*		1550	1240	0.857		
PCB-165	5.52e+06	1.24	y	39:42	1.17	122		-	-	*	Co-elute PCB 146	
PCB-146	5.52e+06	1.24	y	39:42	1.17	122		-	-	*	Co-elute PCB 165	
PCB-161	8.70e+06	1.22	y	39:58	1.07	211		-	-	*	Co-elute PCB 132	
PCB-132	8.70e+06	1.22	y	39:58	1.07	211		-	-	*	Co-elute PCB 161	
PCB-153	3.98e+07	1.26	y	40:05	1.16	887		-	-	*		
PCB-168	*	*	n	NotFnd	1.27	*		1550	1240	0.582		
PCB-141	5.62e+06	1.24	y	40:46	0.93	157		-	-	*		
PCB-137	1.21e+06	1.22	y	41:09	0.87	36.0		-	-	*		
PCB-130	1.90e+06	1.24	y	41:14	0.85	57.9		-	-	*		
PCB-138	3.98e+07	1.27	y	41:35	1.13	914		-	-	*	Co-elute PCB 163/164	
PCB-163	3.98e+07	1.27	y	41:35	1.13	914		-	-	*	Co-elute PCB 138/164	
PCB-164	3.98e+07	1.27	y	41:35	1.13	914		-	-	*	Co-elute PCB 138/163	
PCB-158	4.52e+06	1.23	y	41:49	1.27	92.1		-	-	*	Co-elute PCB 160	
PCB-160	4.52e+06	1.23	y	41:49	1.27	92.1		-	-	*	Co-elute PCB 158	
PCB-129	1.10e+06	1.25	y	42:03	0.79	36.2		-	-	*		
PCB-166	1.16e+05	1.25	y	42:30	1.20	2.50	J	-	-	*		
PCB-159	6.61e+05	1.31	y	42:49	1.31	13.1		-	-	*		
PCB-128	5.18e+06	1.23	y	43:03	1.03	130		-	-	*	Co-elute PCB 162	
PCB-162	5.18e+06	1.23	y	43:03	1.03	130		-	-	*	Co-elute PCB 128	
PCB-167	1.37e+06	1.34	y	43:26	1.13	30.5		-	-	*		
13C-PCB-167	7.92e+07	1.28	y	43:24	1.15	1880					94.5	
PCB-156	3.64e+06	1.29	y	44:40	1.23	75.1		-	-	*		
13C-PCB-156	7.87e+07	1.28	y	44:38	1.11	1930					97.1	
PCB-157	8.00e+05	1.38	y	44:55	1.15	16.6		-	-	*		
13C-PCB-157	8.33e+07	1.31	y	44:53	1.14	2000					100	
PCB-169	*	*	n	NotFnd	1.11	*		1550	1240	0.736		
13C-PCB-169	6.65e+07	1.28	y	46:45	1.08	1690					84.6	

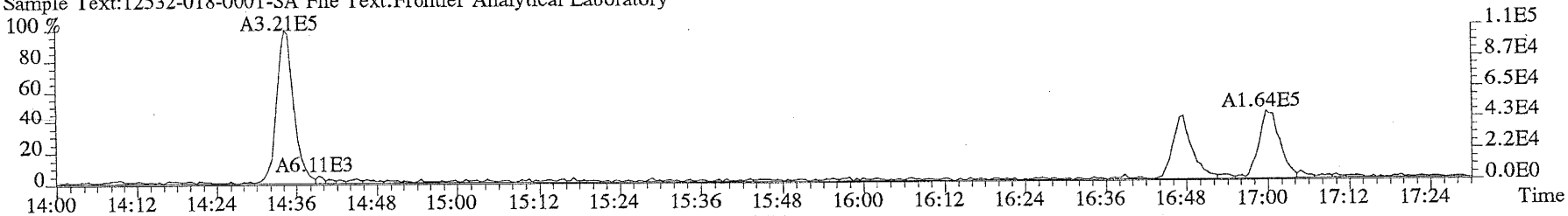
PCB-188	3.56e+04	1.14	y	39:43	1.06	0.891	J	-	-	*	
13C-PCB-188	7.52e+07	1.06	y	39:42	1.26	1630					81.8
PCB-184	*	*	n	NotFnd	1.24	*		760	704	0.282	
PCB-179	4.73e+06	1.03	y	40:53	1.13	119		-	-	*	
PCB-176	1.56e+06	1.10	y	41:19	1.08	40.8		-	-	*	
PCB-186	*	*	n	NotFnd	1.13	*		760	-	0.161	
PCB-178	1.70e+06	1.00	y	42:21	0.76	63.5		-	-	*	
PCB-175	3.49e+05	1.20	y	42:41	0.77	12.9		-	-	*	
PCB-187	1.08e+07	1.03	y	42:49	0.86	359		-	-	*	Co-elute PCB 182
PCB-182	1.08e+07	1.03	y	42:49	0.86	359		-	-	*	Co-elute PCB 187
PCB-183	5.59e+06	1.04	y	43:09	0.83	191		-	-	*	
PCB-185	8.93e+05	1.07	y	43:47	0.74	34.0		-	-	*	
PCB-174	7.34e+06	1.06	y	44:07	0.79	262		-	-	*	
PCB-181	*	*	n	NotFnd	0.70	*		760	704	0.497	
PCB-177	4.30e+06	1.05	y	44:23	0.68	179		-	-	*	
PCB-171	2.23e+06	1.05	y	44:40	0.74	85.5		-	-	*	
PCB-173	1.42e+05	1.01	y	45:03	0.66	6.12		-	-	*	
PCB-172	1.23e+06	1.02	y	45:27	0.69	50.4		-	-	*	
PCB-192	*	*	n	NotFnd	0.94	*		760	704	0.373	
PCB-180	1.66e+07	1.07	y	45:47	0.69	681		-	-	*	
PCB-193	1.22e+06	1.04	y	45:57	0.98	35.1		-	-	*	
PCB-191	4.09e+05	1.08	y	46:10	0.94	12.3		-	-	*	
PCB-170	6.70e+06	1.07	y	47:05	0.66	288		-	-	*	
PCB-190	1.98e+06	1.05	y	47:14	0.93	60.3		-	-	*	
PCB-189	3.28e+05	1.08	y	48:27	1.02	9.78		-	-	*	
13C-PCB-189	6.54e+07	1.07	y	48:25	1.00	1780					89.5
PCB-202	1.08e+06	0.94	y	44:50	1.04	34.0		-	-	*	
PCB-201	6.88e+05	0.96	y	45:16	1.12	20.2		-	-	*	
PCB-204	*	*	n	NotFnd	1.09	*		356	848	0.366	
PCB-197	2.31e+05	0.93	y	45:41	1.15	6.58		-	-	*	
PCB-200	6.43e+05	0.96	y	46:25	1.10	19.2		-	-	*	
PCB-198	1.78e+05	0.95	y	47:36	0.73	7.99		-	-	*	
PCB-199	3.48e+06	0.91	y	47:41	0.76	150		-	-	*	
PCB-203	4.21e+06	0.89	y	47:56	0.85	163		-	-	*	Co-elute PCB 196
PCB-196	4.21e+06	0.89	y	47:56	0.85	163		-	-	*	Co-elute PCB 203
13C-PCB-202	6.07e+07	0.91	y	44:48	0.97	1720					86.1
13C-PCB-178	5.09e+07	1.08	y	42:20	0.83	1680					84.3
13C-PCB-138	7.28e+07	1.27	y	41:34	-	25.7					
PCB-195	1.57e+06	0.88	y	49:03	0.77	59.3		-	-	*	
PCB-194	4.01e+06	0.90	y	49:50	0.84	139		-	-	*	
PCB-205	2.74e+05	0.97	y	50:07	1.04	7.60		-	-	*	
13C-PCB-205	6.87e+07	0.91	y	50:06	1.31	1840					92.2
PCB-208	7.17e+05	1.32	y	49:10	1.00	20.0		-	-	*	
13C-PCB-208	7.13e+07	0.80	y	49:09	1.32	1880					94.5
PCB-207	3.25e+05	1.44	y	49:27	1.15	9.52		-	-	*	
PCB-206	1.77e+06	1.33	y	51:19	1.04	71.8		-	-	*	
13C-PCB-206	4.71e+07	0.79	y	51:18	0.97	1690					85.0
PCB-209	8.72e+05	1.11	y	52:29	1.11	28.9		-	-	*	
13C-PCB-209	5.39e+07	1.22	y	52:28	1.23	1530					76.7
13C-PCB-194	5.70e+07	0.90	y	49:50	-	22.8					

Analyst: _____ Date: 7/24/19

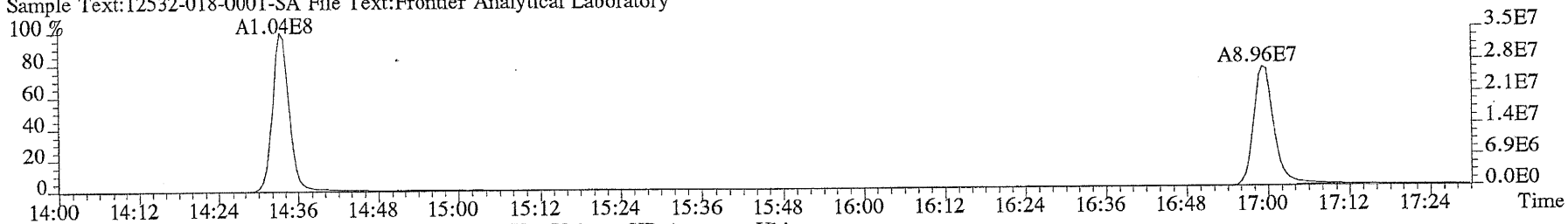
File:25JUL19Z #1-783 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



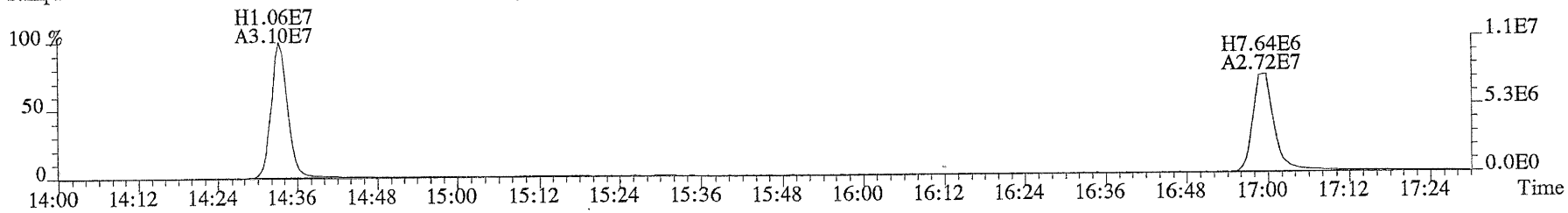
File:25JUL19Z #1-783 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



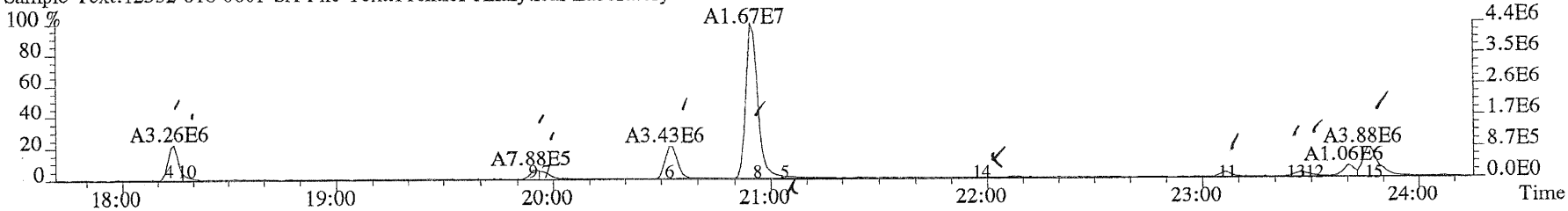
File:25JUL19Z #1-783 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



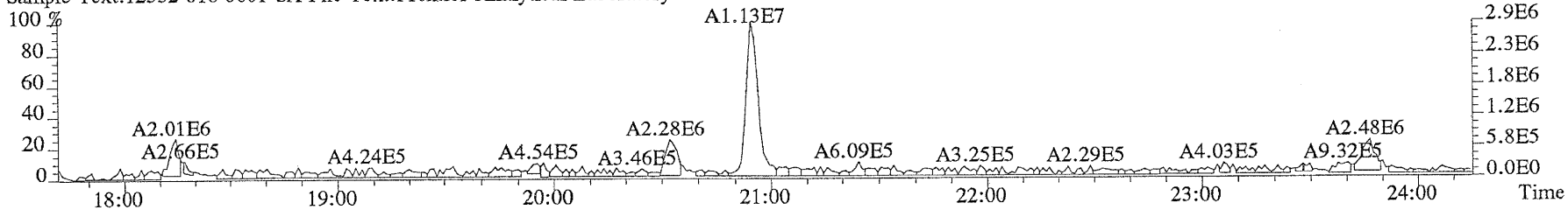
File:25JUL19Z #1-783 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



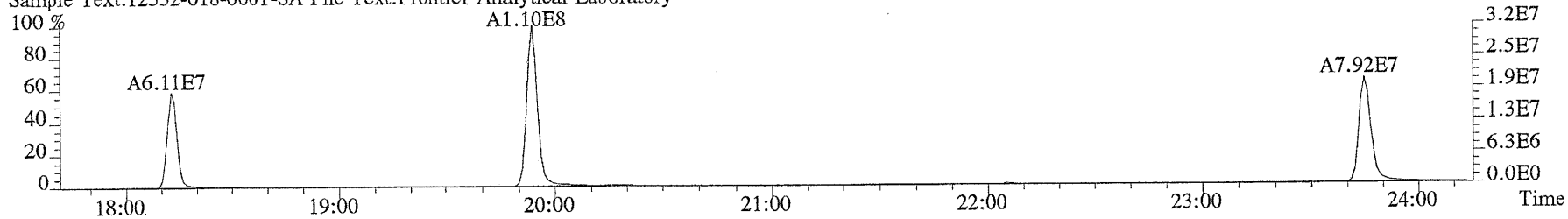
File:25JUL19Z #1-521 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



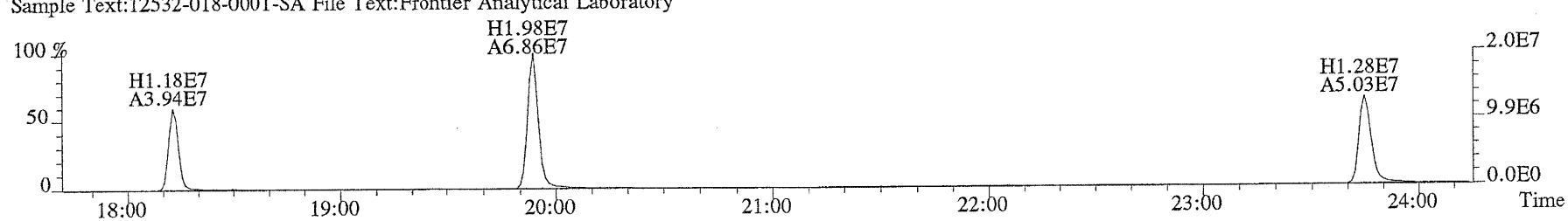
File:25JUL19Z #1-521 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



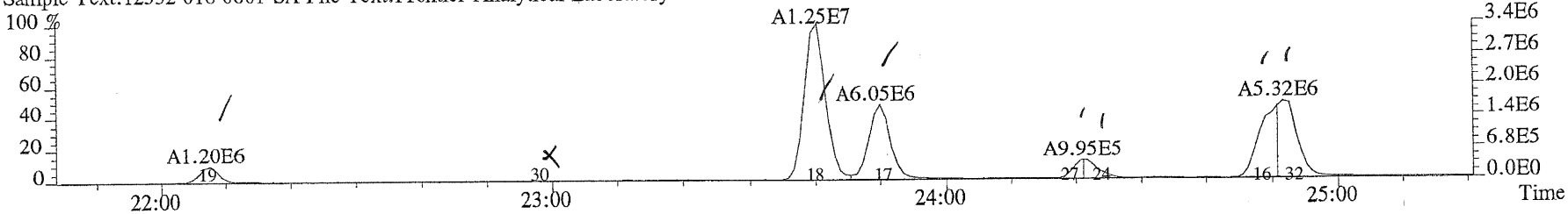
File:25JUL19Z #1-521 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



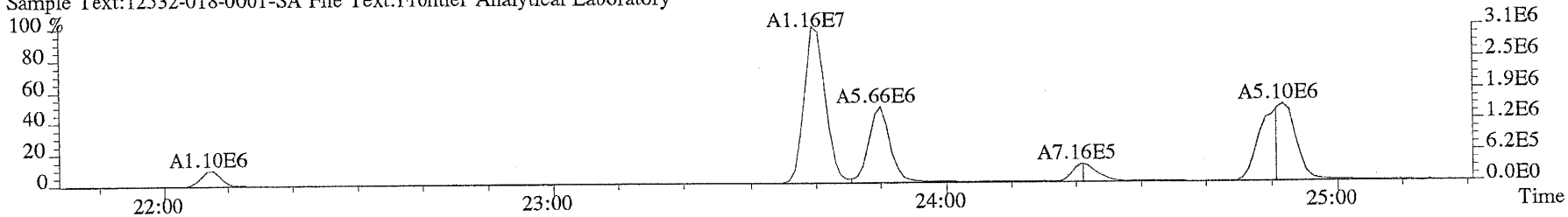
File:25JUL19Z #1-521 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



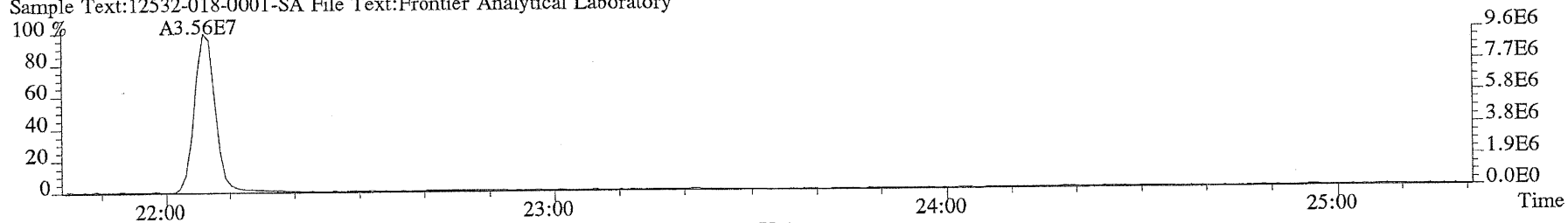
File:25JUL19Z #1-521 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



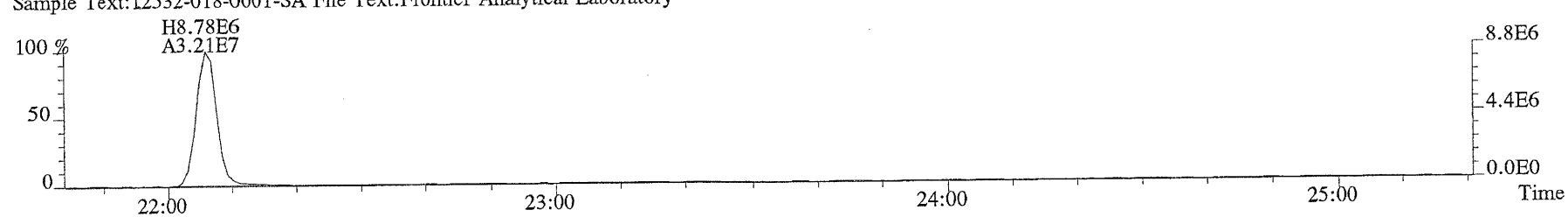
File:25JUL19Z #1-521 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



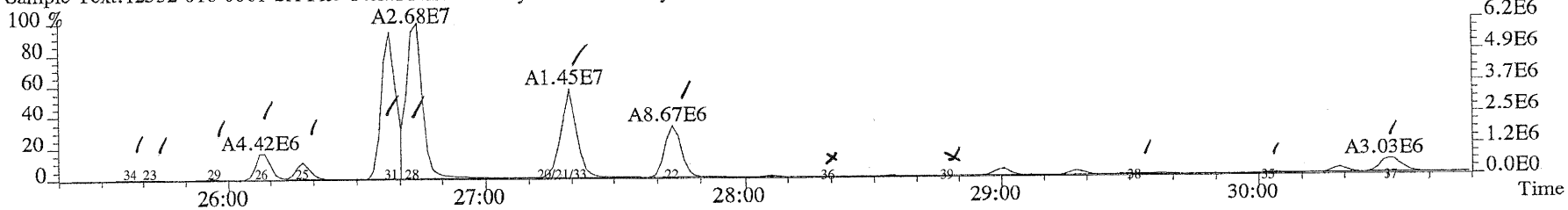
File:25JUL19Z #1-521 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



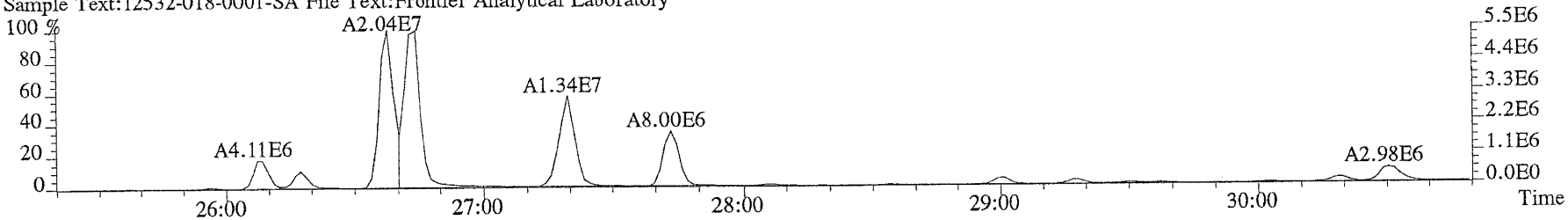
File:25JUL19Z #1-521 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



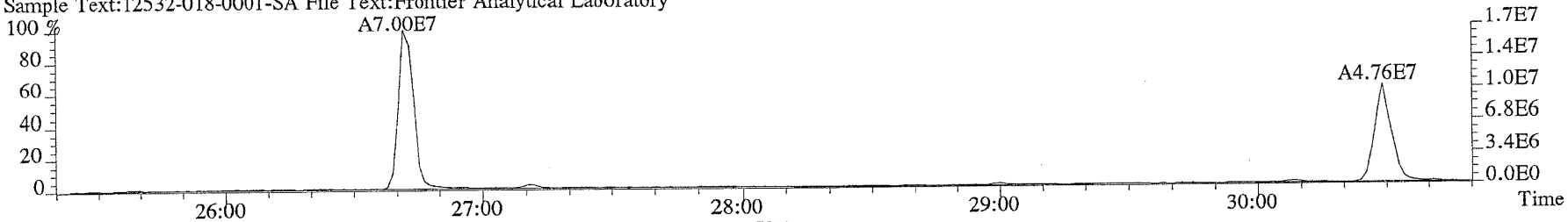
File:25JUL19Z #1-401 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



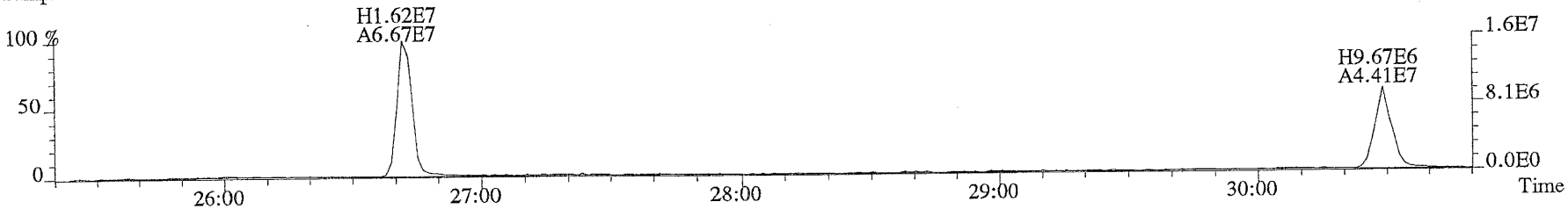
File:25JUL19Z #1-401 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



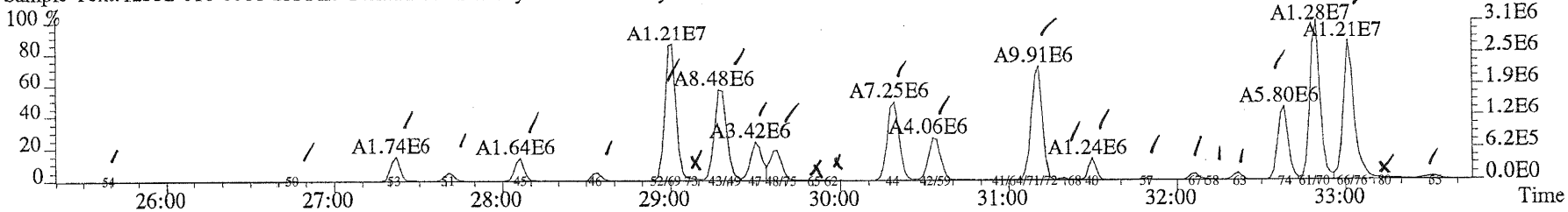
File:25JUL19Z #1-401 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-401 Acq:25-JUL-2019 21:54:24 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:12532-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-401 Acq:25-JUL-2019 21:54:24 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:12532-018-0001-SA File Text:Frontier Analytical Laboratory



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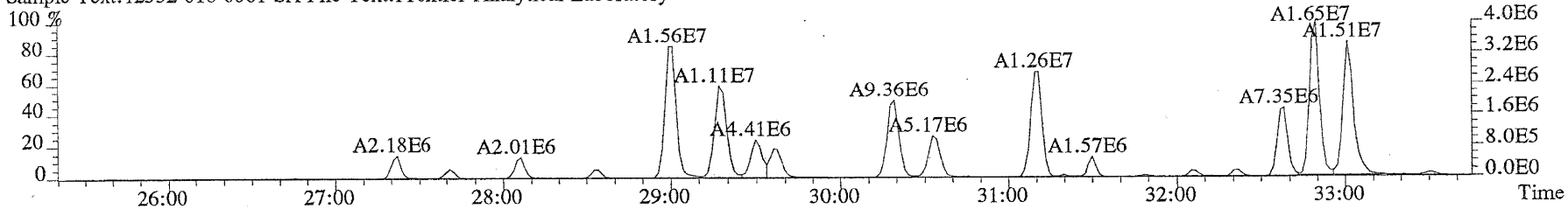

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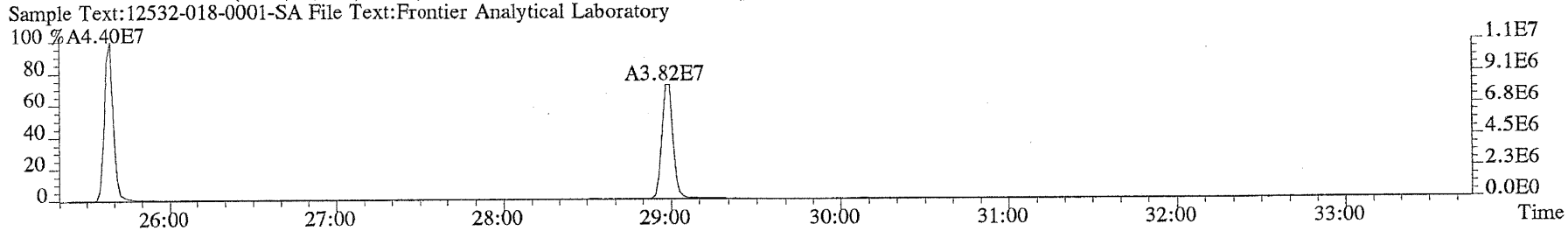
301.9626 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



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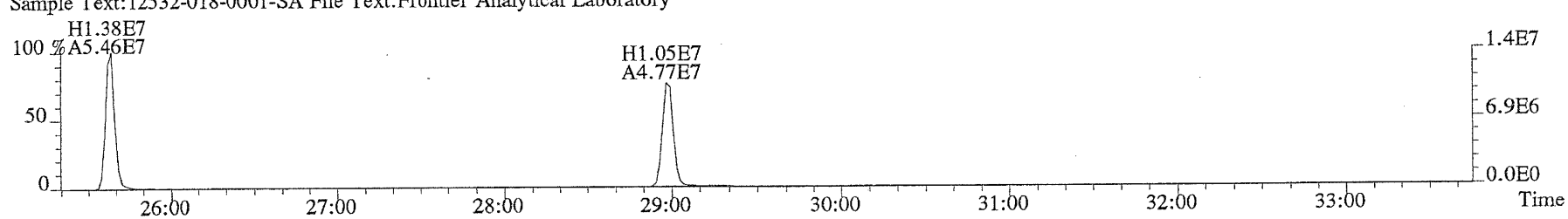
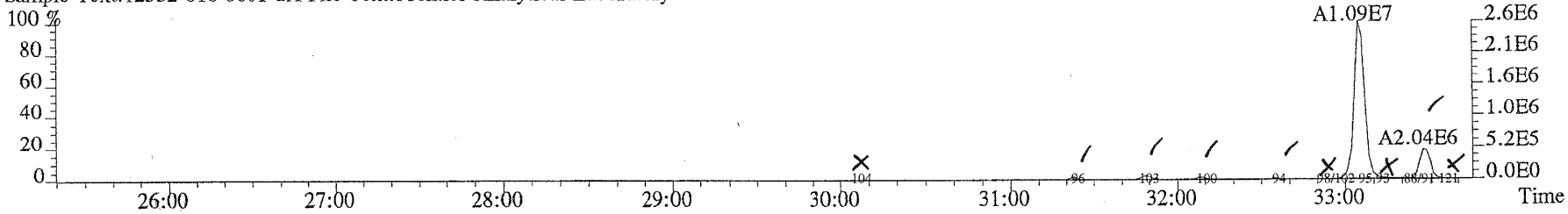
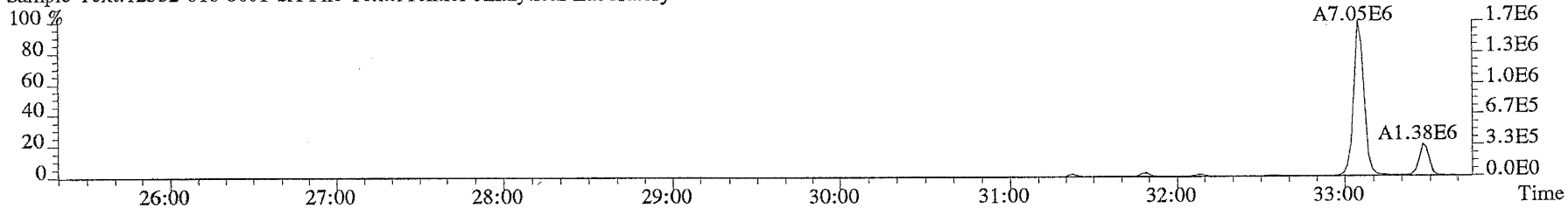
303.9597 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



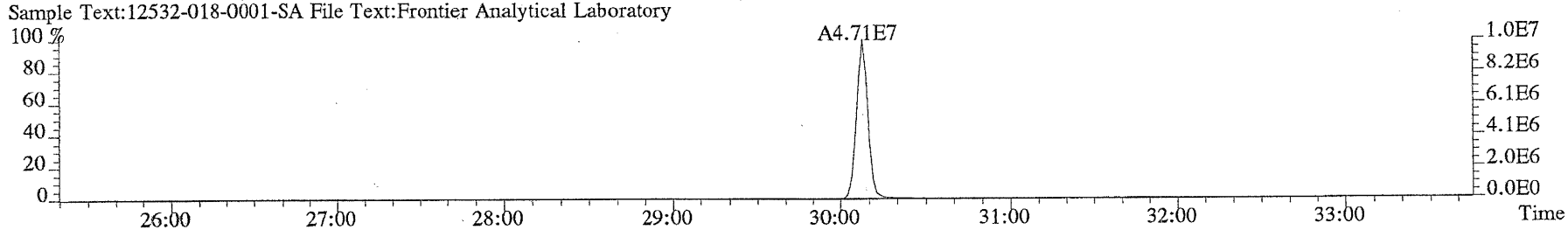
File:25JUL19Z #1-401 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



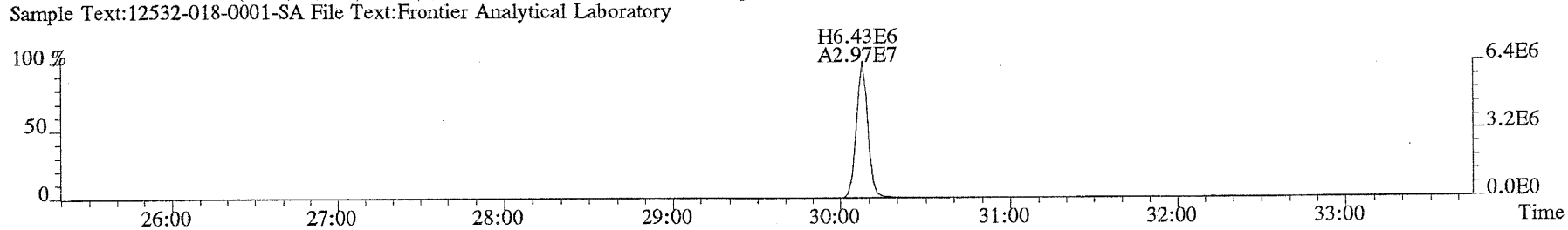
File:25JUL19Z #1-401 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



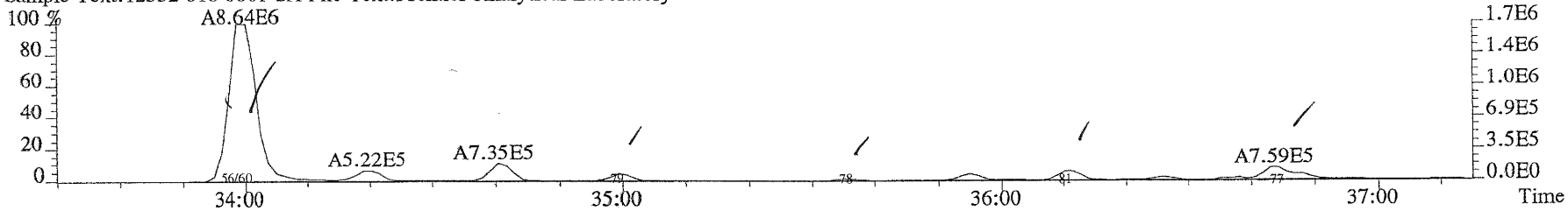
File:25JUL19Z #1-401 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-401 Acq:25-JUL-2019 21:54:24 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:12532-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-180 Acq:25-JUL-2019 21:54:24 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:12532-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-180 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
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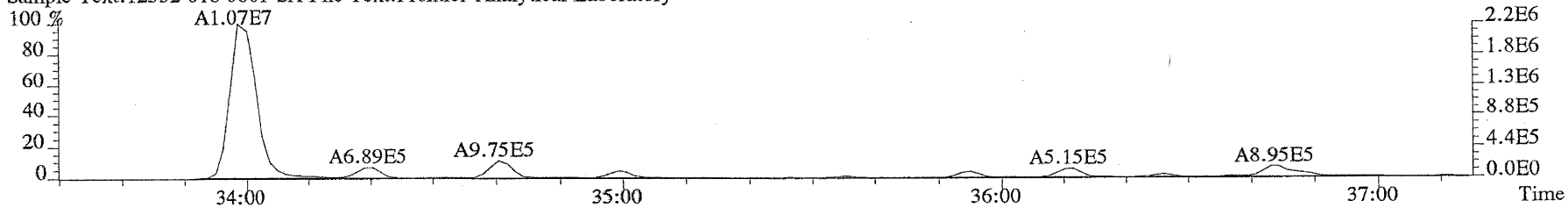
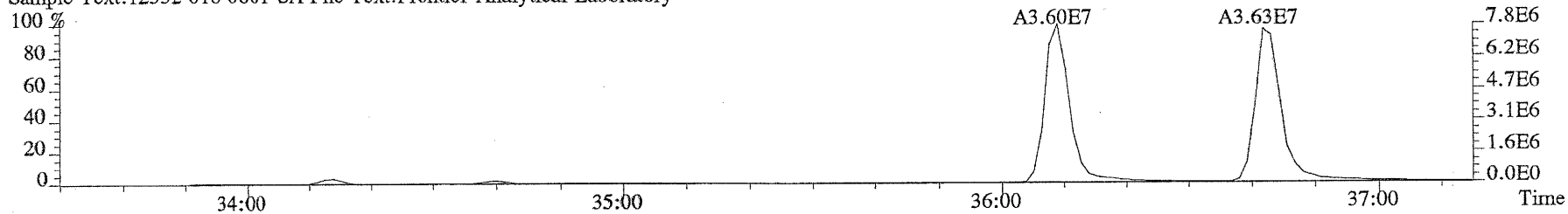


File:25JUL19Z #1-180 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



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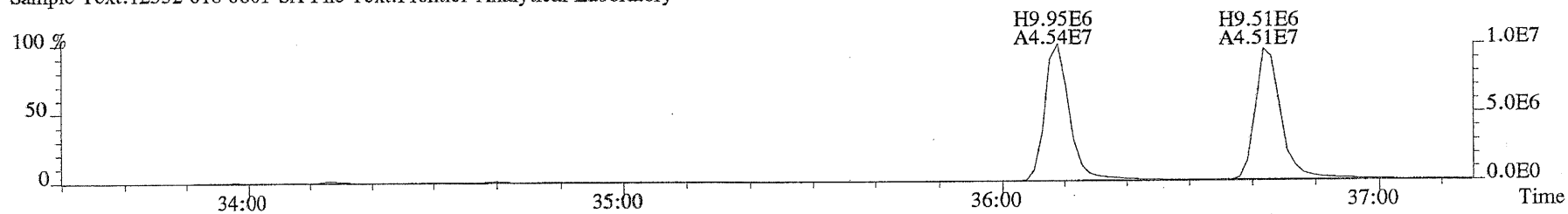
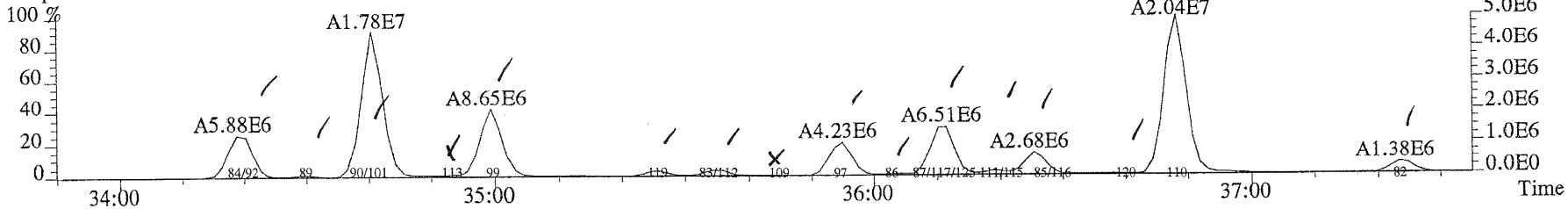
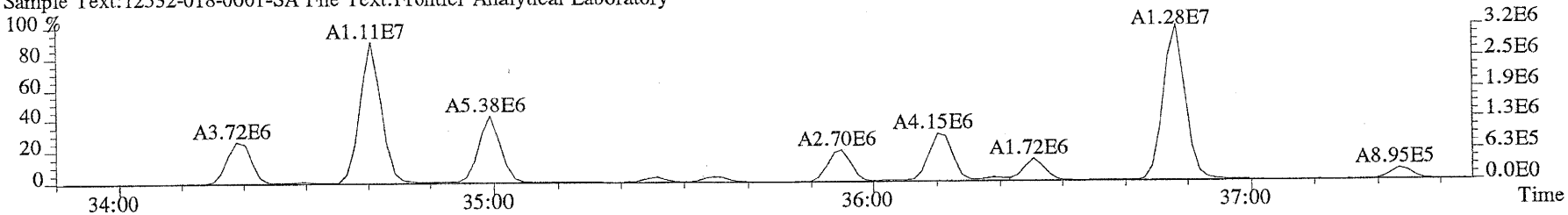
303.9597 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



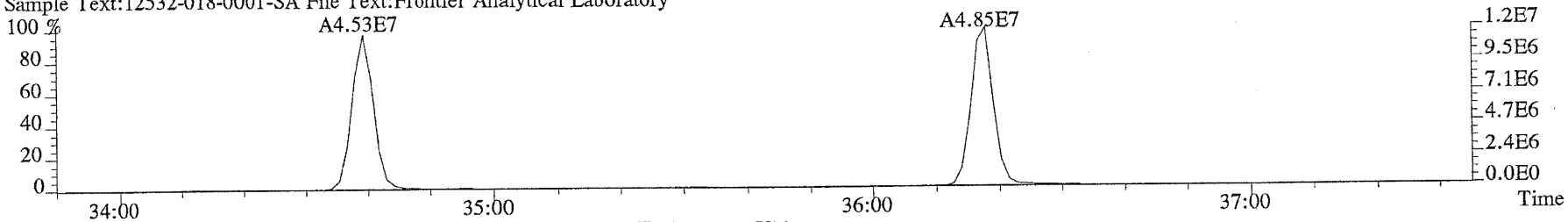
File:25JUL19Z #1-180 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



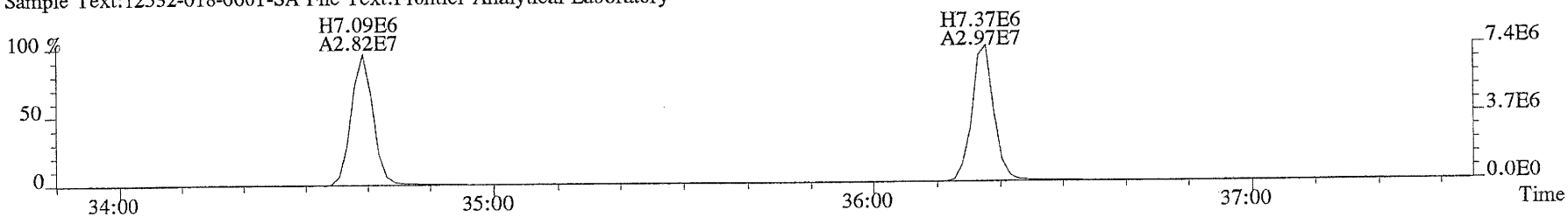
File:25JUL19Z #1-180 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



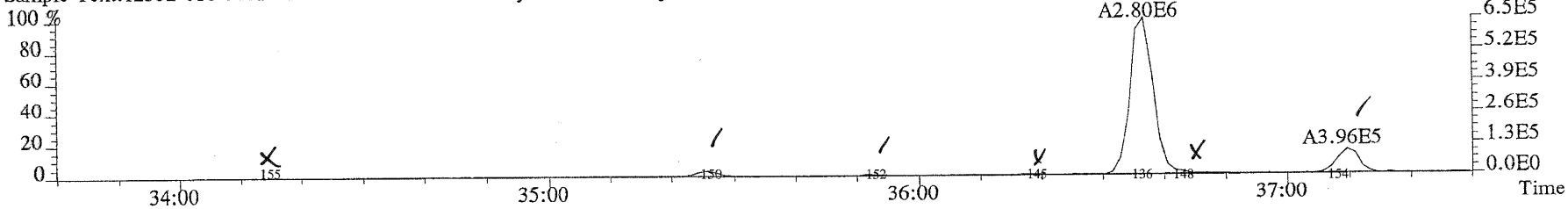
File:25JUL19Z #1-180 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



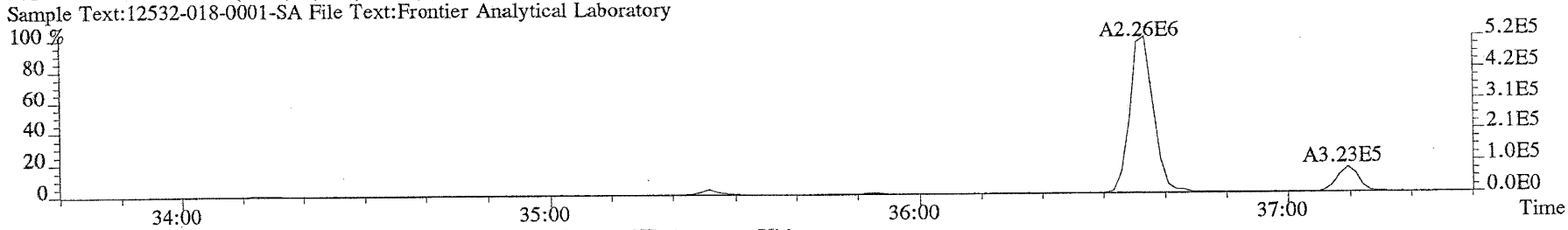
File:25JUL19Z #1-180 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-180 Acq:25-JUL-2019 21:54:24 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:12532-018-0001-SA File Text:Frontier Analytical Laboratory

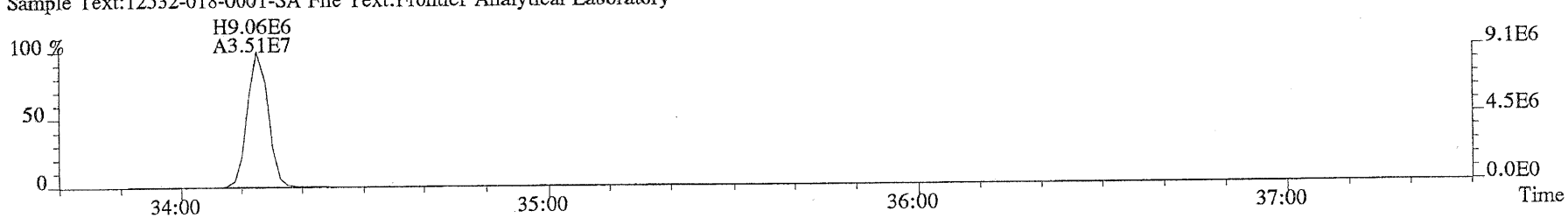


File:25JUL19Z #1-180 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory

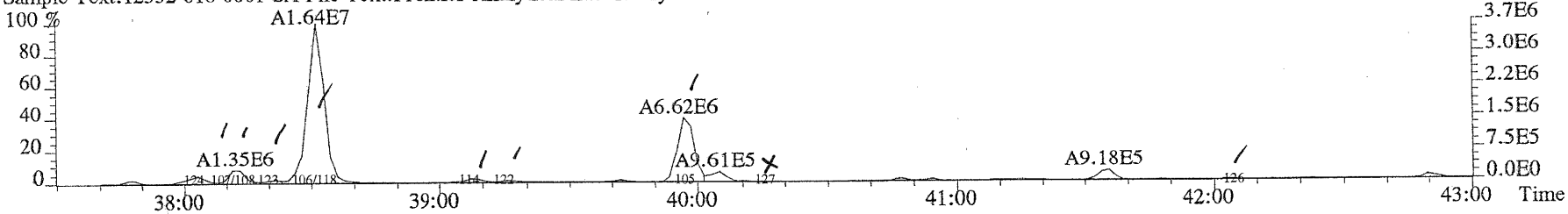


File:25JUL19Z #1-180 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory

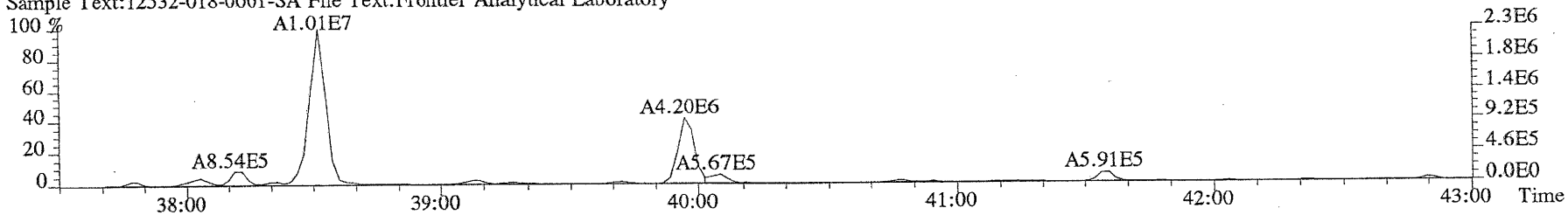
File:25JUL19Z #1-180 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 21:54:24 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:12532-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 21:54:24 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:12532-018-0001-SA File Text:Frontier Analytical Laboratory



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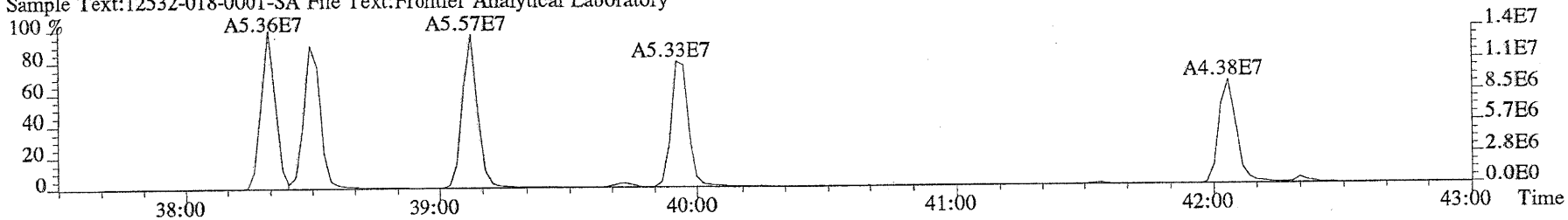
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



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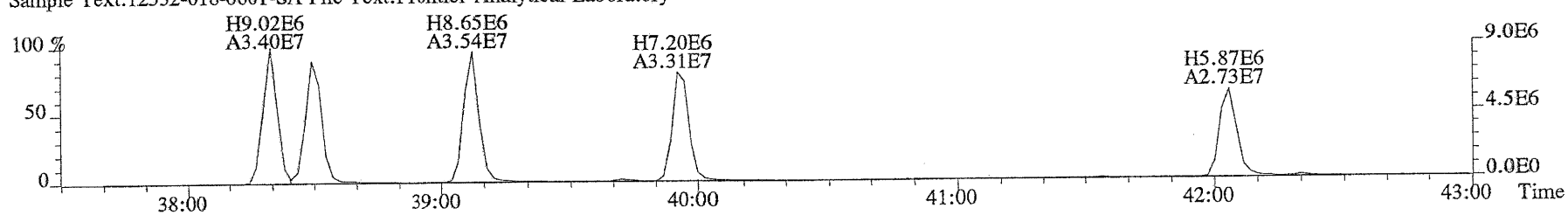
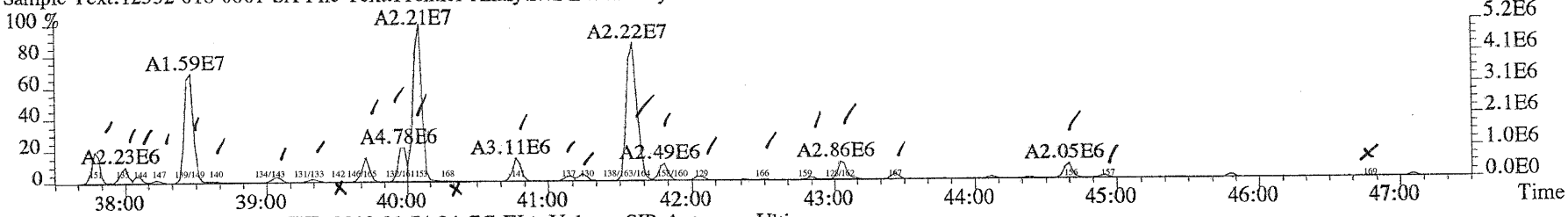
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 21:54:24 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:12532-018-0001-SA File Text:Frontier Analytical Laboratory



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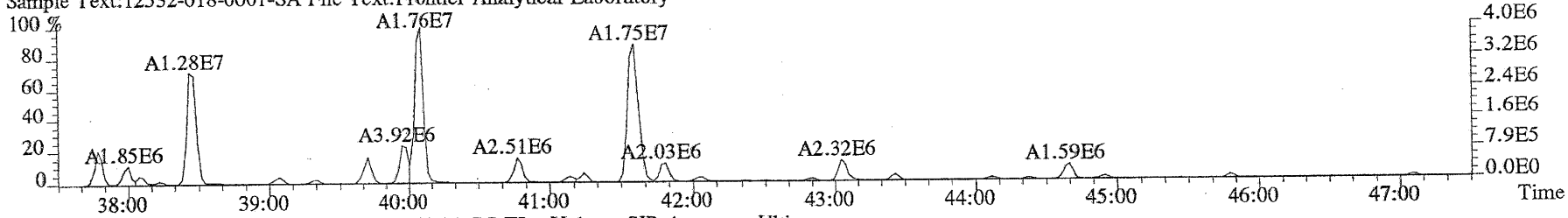
361.8385 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



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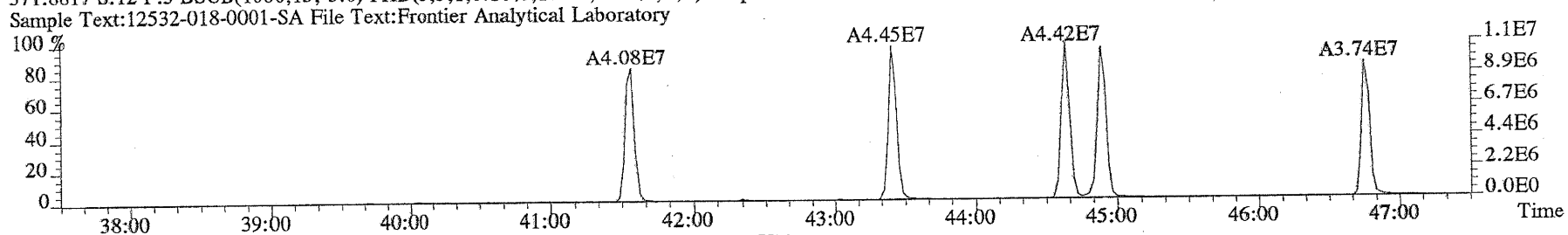
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



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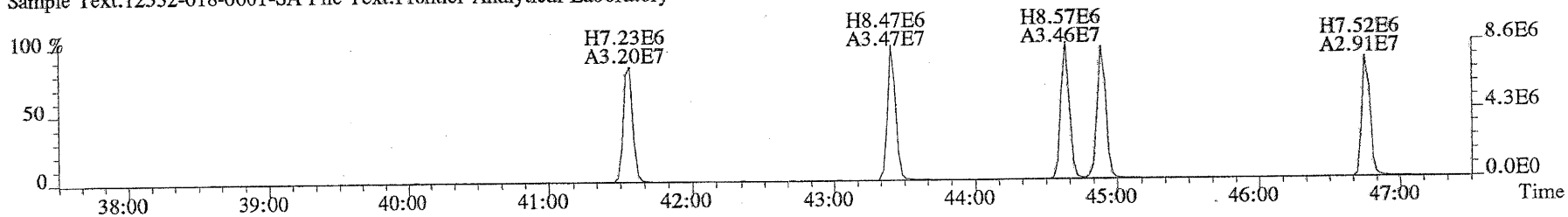
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



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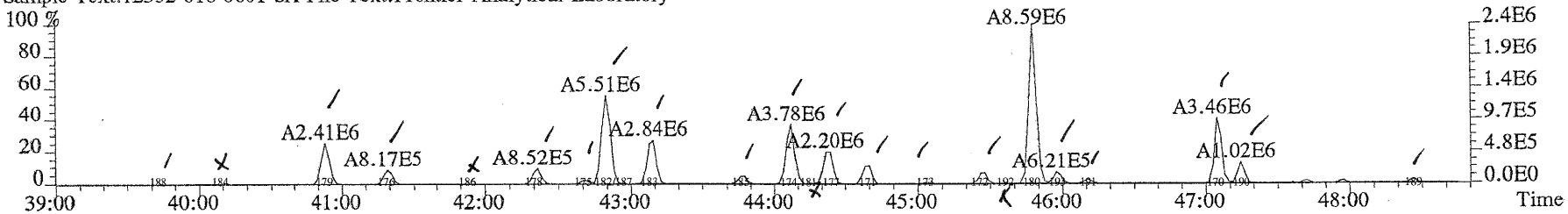
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



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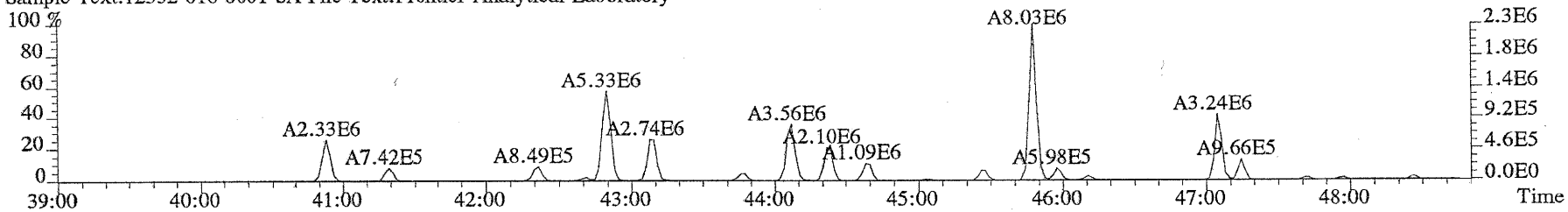
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



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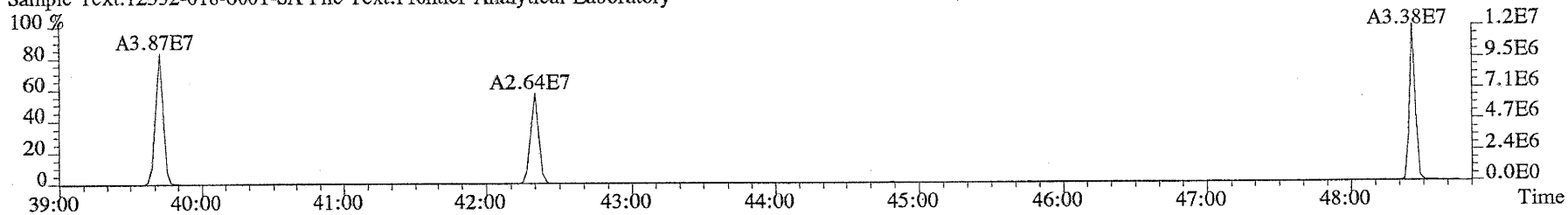
405.8428 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



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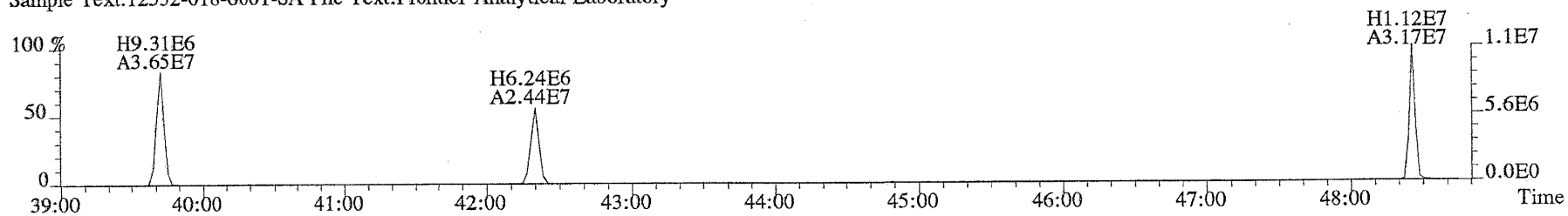
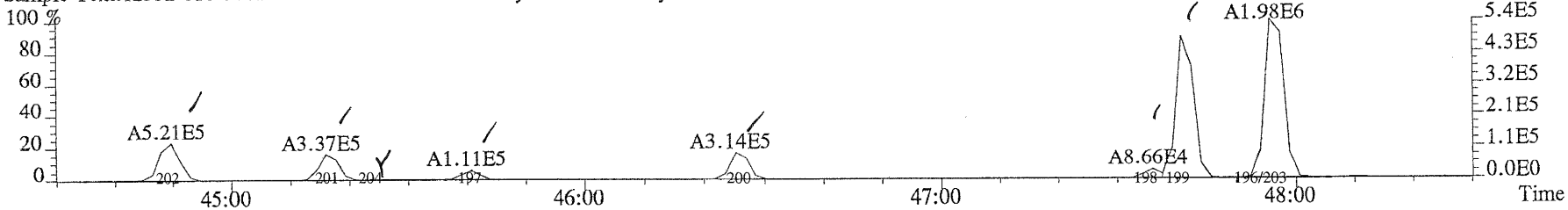
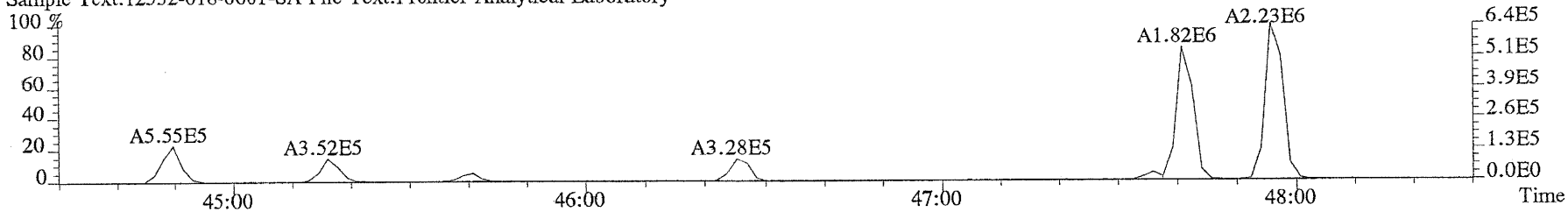
407.8398 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



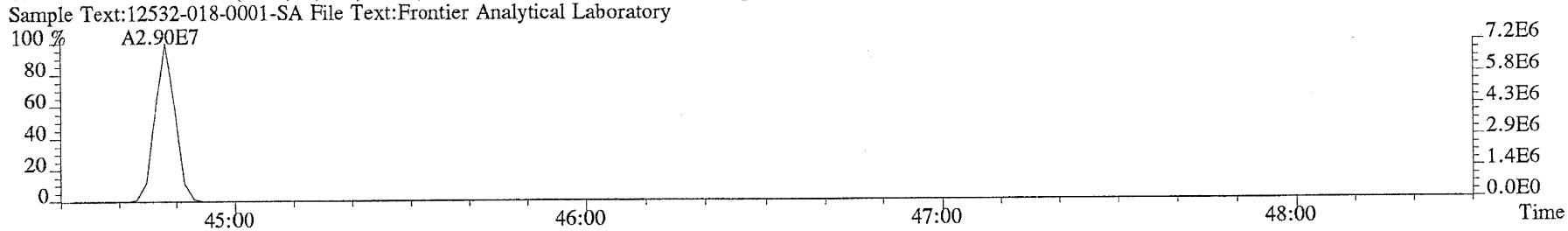
File:25JUL19Z #1-405 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



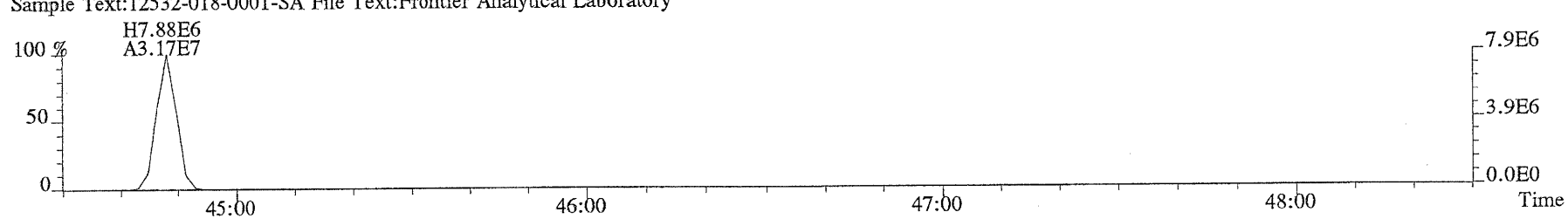
File:25JUL19Z #1-405 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



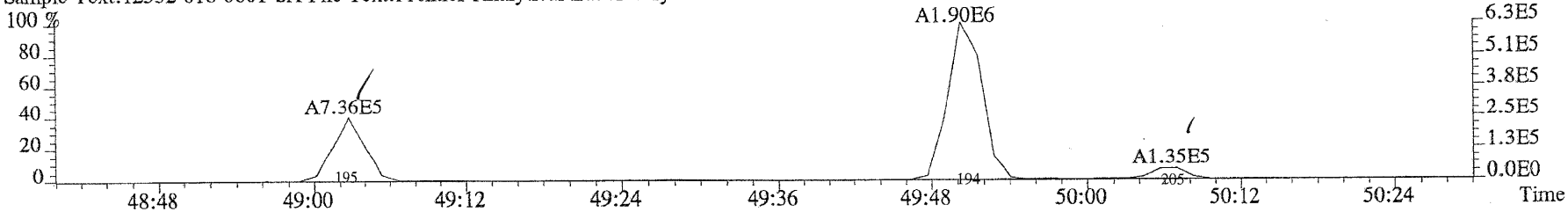
File:25JUL19Z #1-405 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



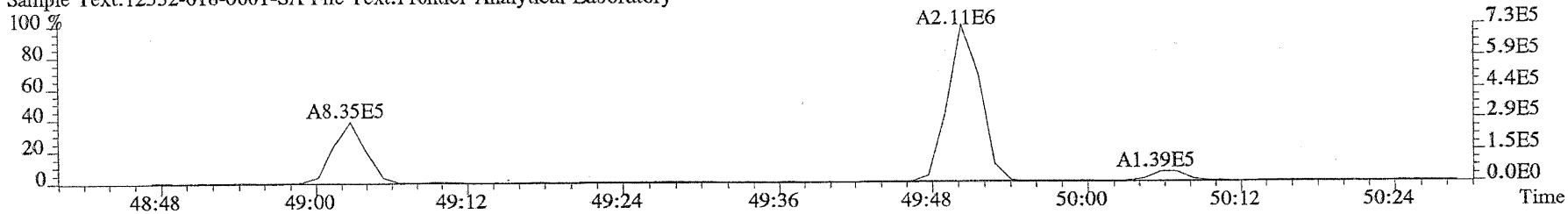
File:25JUL19Z #1-405 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



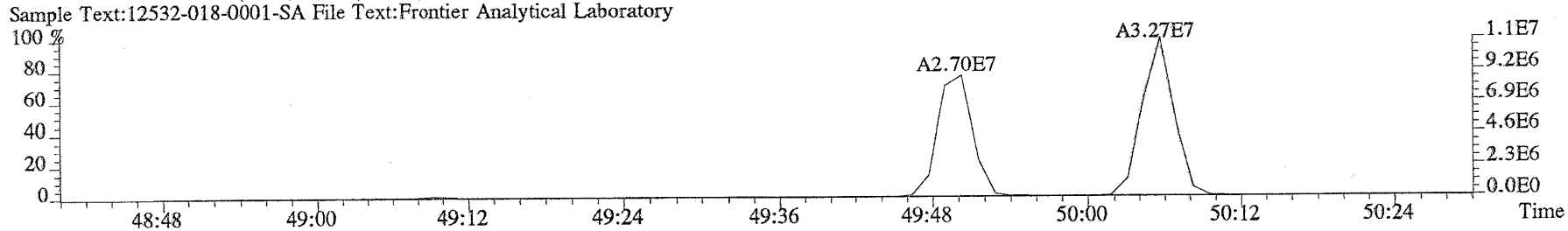
File:25JUL19Z #1-315 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



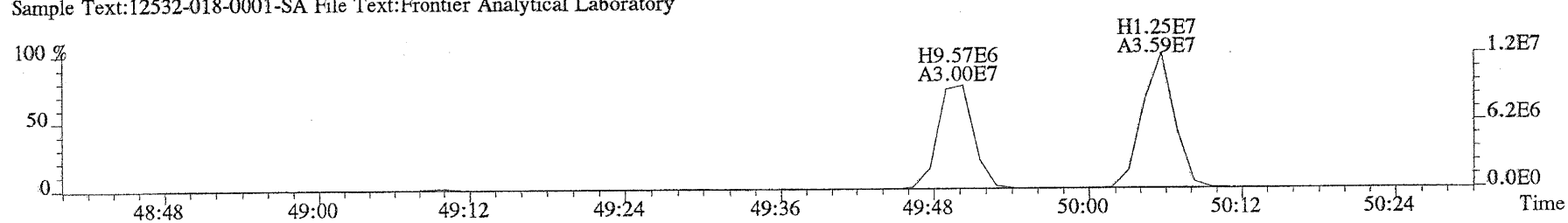
File:25JUL19Z #1-315 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



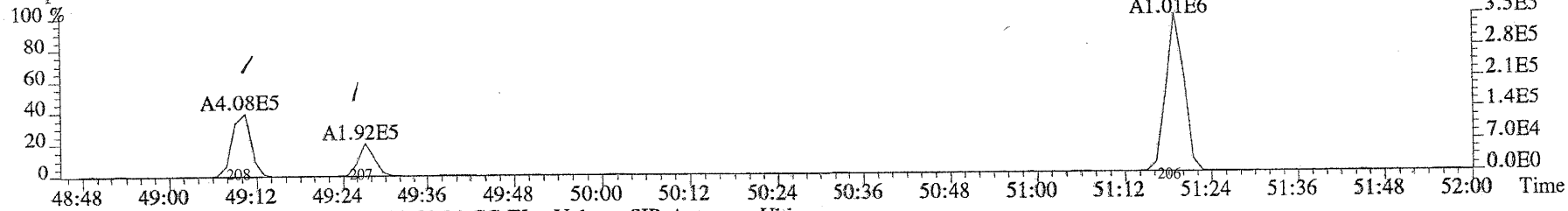
File:25JUL19Z #1-315 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



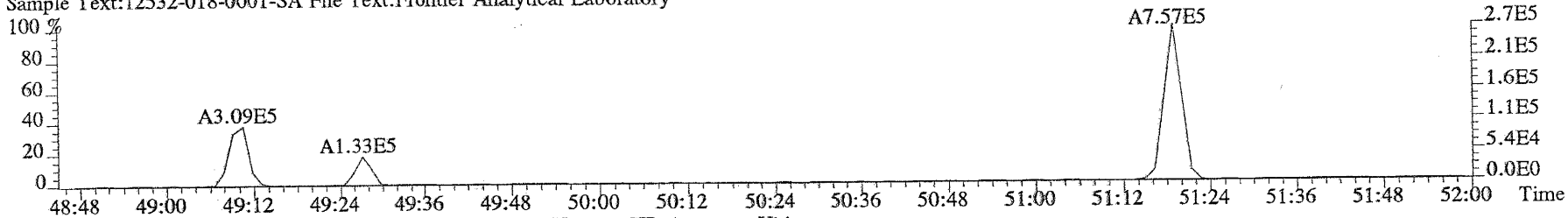
File:25JUL19Z #1-315 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



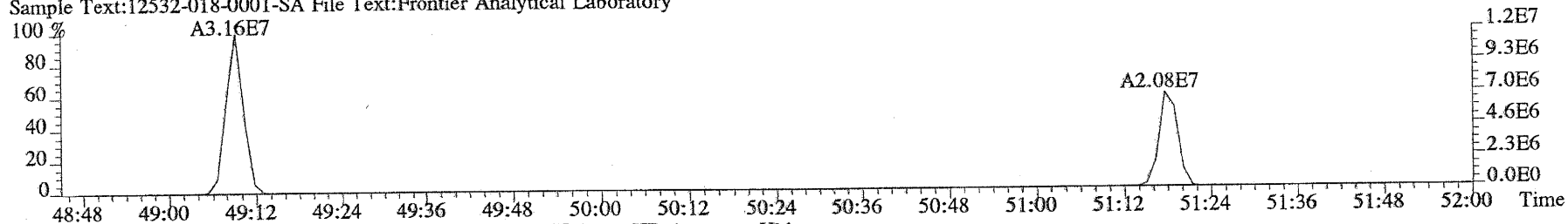
File:25JUL19Z #1-315 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



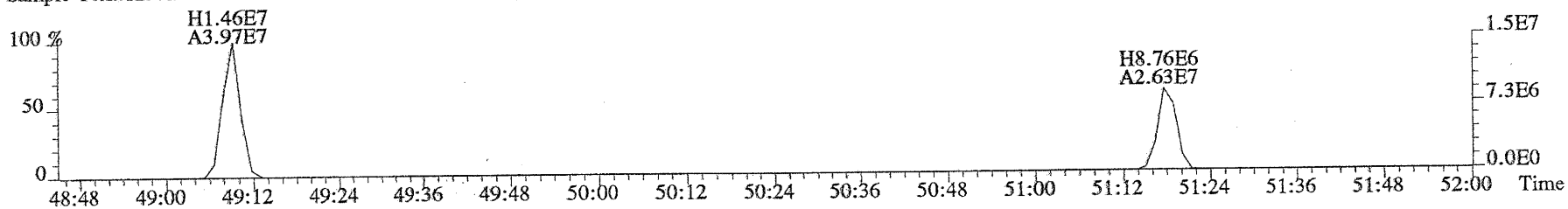
File:25JUL19Z #1-315 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



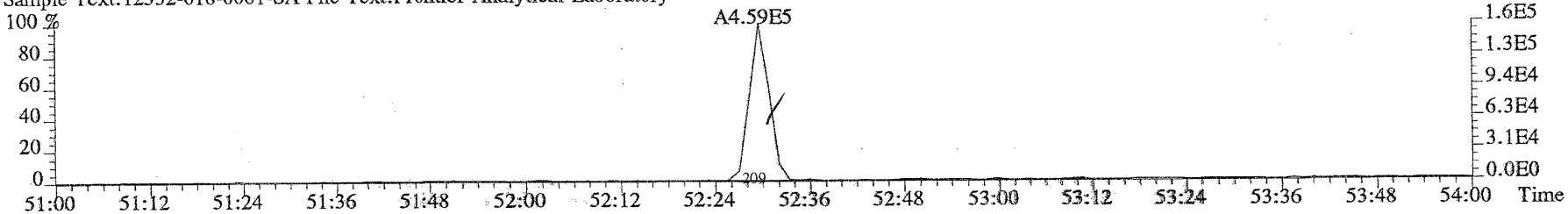
File:25JUL19Z #1-315 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



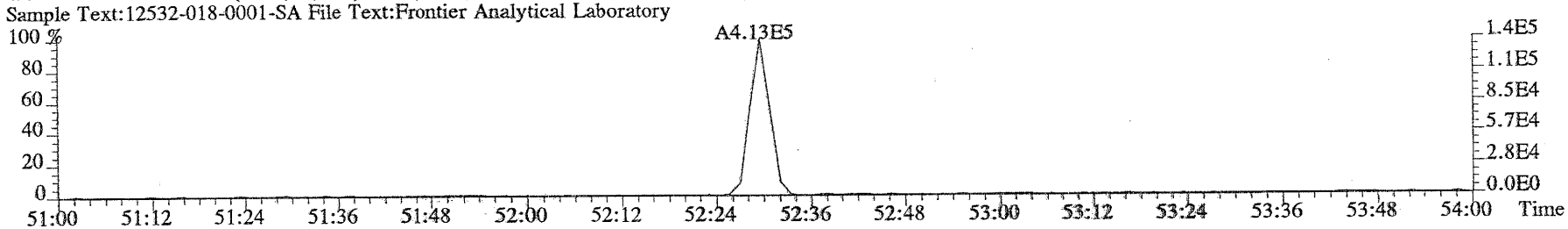
File:25JUL19Z #1-315 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



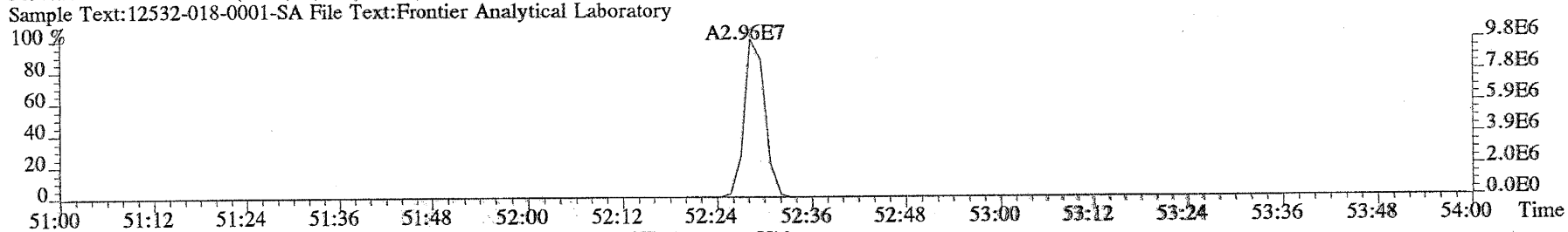
File:25JUL19Z #1-315 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



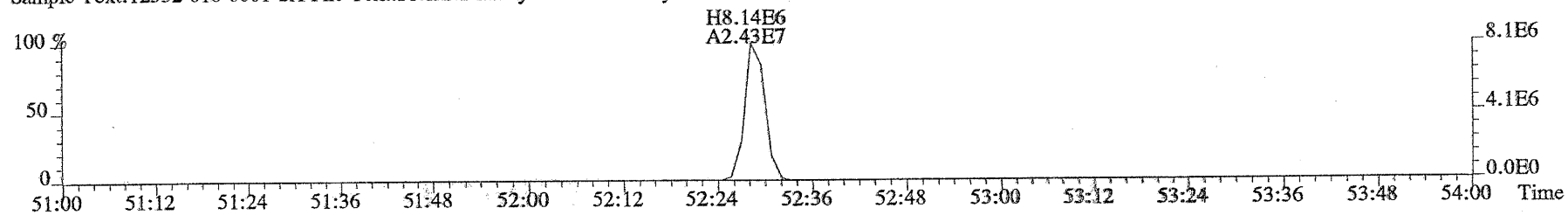
File:25JUL19Z #1-315 Acq:25-JUL-2019 21:54:24 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 21:54:24 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:12532-018-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 21:54:24 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:12532-018-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12532-019-0001-SA Filename: 25JUL19Z Sam:13 Acquired: 25-JUL-19 22:52:45 ICal: DAILY209FAL4-7-25-19
Client ID: LDW-Y2-SC-ENR-SS ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 5.010

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.42e+06	3.11 y	14:33	1.17	28.9		-	-	*	
13C-PCB-1	8.39e+07	3.25 y	14:32	0.90	1590					79.8
PCB-2	3.05e+05	3.07 y	16:47	1.20	5.96		-	-	*	
PCB-3	1.25e+06	3.01 y	17:00	1.20	24.0		-	-	*	
13C-PCB-3	8.66e+07	3.39 y	16:59	0.87	1700					85.2
PCB-4	7.83e+06	1.47 y	18:14	1.10	223		-	-	*	
PCB-10	6.55e+05	1.50 y	18:18	1.40	10.7		-	-	*	
13C-PCB-4	6.38e+07	1.55 y	18:13	0.66	1660					83.4
PCB-9	2.16e+06	1.46 y	19:55	1.32	37.4		-	-	*	
PCB-7	2.05e+06	1.50 y	19:57	1.48	31.5		-	-	*	
PCB-6	1.07e+07	1.44 y	20:32	1.39	176		-	-	*	
PCB-8	5.12e+07	1.55 y	20:55	1.34	867		-	-	*	
PCB-5	*	* n	NotFnd	1.36	*		760	4770	0.857	
PCB-14	*	* n	NotFnd	1.30	*		760	4770	0.900	
PCB-11	1.65e+06	1.54 y	23:07	1.23	30.6		-	-	*	
PCB-13	1.44e+06	1.49 y	23:26	1.18	27.7		-	-	*	
PCB-12	2.85e+06	1.49 y	23:27	1.23	52.9		-	-	*	
PCB-15	3.14e+07	1.48 y	23:47	1.10	509		-	-	*	
13C-PCB-15	1.11e+08	1.59 y	23:46	0.90	2130					107
PCB-19	4.10e+06	1.07 y	22:08	1.19	156		-	-	*	
PCB-30	*	* n	NotFnd	1.80	*		1430	1400	0.671	
PCB-18	4.49e+07	1.08 y	23:40	1.17	1740		-	-	*	
PCB-17	2.21e+07	1.08 y	23:50	1.29	776		-	-	*	
PCB-27	2.45e+06	1.05 y	24:21	1.65	67.3		-	-	*	
PCB-24	3.70e+06	1.13 y	24:22	1.76	95.3		-	-	*	
PCB-16	1.76e+07	1.09 y	24:51	1.43	559		-	-	*	
PCB-32	1.93e+07	1.06 y	24:53	1.46	599		-	-	*	
13C-PCB-19	4.40e+07	1.12 y	22:07	0.49	1540					77.2
13C-PCB-9	1.17e+08	1.61 y	19:54	-	14.2					
PCB-34	5.45e+05	1.11 y	25:38	1.20	12.3		-	-	*	
PCB-23	1.75e+05	1.18 y	25:43	1.47	3.21	J	-	-	*	
PCB-29	8.62e+05	1.15 y	25:57	1.34	17.4		-	-	*	
PCB-26	1.92e+07	1.11 y	26:09	1.27	409		-	-	*	
PCB-25	1.12e+07	1.04 y	26:18	1.26	239		-	-	*	
PCB-31	9.33e+07	1.07 y	26:38	1.28	1980		-	-	*	
PCB-28	1.18e+08	1.09 y	26:45	1.51	2120		-	-	*	
PCB-20	6.32e+07	1.07 y	27:20	1.26	1360		-	-	*	Co-elute PCB 21/33
PCB-21	6.32e+07	1.07 y	27:20	1.26	1360		-	-	*	Co-elute PCB 20/33
PCB-33	6.32e+07	1.07 y	27:20	1.26	1360		-	-	*	Co-elute PCB 20/21
PCB-22	3.53e+07	1.08 y	27:44	1.40	681		-	-	*	
PCB-36	*	* n	NotFnd	1.25	*		1580	1520	0.829	
PCB-39	*	* n	NotFnd	1.24	*		1580	1520	0.831	
PCB-38	7.88e+05	1.10 y	29:31	1.29	16.5		-	-	*	
PCB-35	1.44e+06	1.06 y	30:03	1.13	34.5		-	-	*	
PCB-37	3.08e+07	1.07 y	30:31	1.19	700		-	-	*	
13C-PCB-37	7.37e+07	1.04 y	30:30	1.40	1820					91.2

PCB-54	2.57e+05	0.83	y	25:40	1.22	6.69	-	-	*	
PCB-50	2.26e+05	0.78	y	26:46	0.89	8.07	-	-	*	
PCB-53	8.36e+06	0.78	y	27:22	0.86	307	-	-	*	
PCB-51	2.86e+06	0.77	y	27:41	0.92	98.5	-	-	*	
PCB-45	7.68e+06	0.76	y	28:07	0.74	329	-	-	*	
PCB-46	2.93e+06	0.77	y	28:35	0.70	132	-	-	*	
PCB-52	6.81e+07	0.77	y	29:01	0.90	2390	-	-	*	Co-elute PCB 69
PCB-69	6.81e+07	0.77	y	29:01	0.90	2390	-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.12	*	1120	1440	0.712	
PCB-43	4.28e+07	0.78	y	29:19	0.78	1740	-	-	*	Co-elute PCB 49
PCB-49	4.28e+07	0.78	y	29:19	0.78	1740	-	-	*	Co-elute PCB 43
PCB-47	1.57e+07	0.76	y	29:30	0.85	587	-	-	*	
PCB-48	1.27e+07	0.78	y	29:38	1.01	397	-	-	*	Co-elute PCB 75
PCB-75	1.27e+07	0.78	y	29:38	1.01	397	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*	1120	1440	0.783	
PCB-62	*	*	n	NotFnd	1.07	*	1120	1440	0.743	
PCB-44	3.73e+07	0.78	y	30:19	0.67	1780	-	-	*	
PCB-42	1.87e+07	0.78	y	30:33	0.89	665	-	-	*	Co-elute PCB 59
PCB-59	1.87e+07	0.78	y	30:33	0.89	665	-	-	*	Co-elute PCB 42
PCB-72	4.81e+07	0.77	y	31:11	1.00	1520	-	-	*	Co-elute PCB 41/71/64
PCB-41	4.81e+07	0.77	y	31:11	1.00	1520	-	-	*	Co-elute PCB 72/71/64
PCB-71	4.81e+07	0.77	y	31:11	1.00	1520	-	-	*	Co-elute PCB 72/41/64
PCB-64	4.81e+07	0.77	y	31:11	1.00	1520	-	-	*	Co-elute PCB 72/41/71
PCB-68	4.75e+05	0.84	y	31:26	1.14	13.2	-	-	*	
PCB-40	6.19e+06	0.79	y	31:35	0.61	322	-	-	*	
PCB-57	5.36e+05	0.82	y	31:51	1.07	15.8	-	-	*	
PCB-67	3.07e+06	0.78	y	32:08	0.99	97.9	-	-	*	
PCB-58	2.38e+05	0.79	y	32:13	1.11	6.77	-	-	*	
PCB-63	3.09e+06	0.79	y	32:23	1.05	93.4	-	-	*	
PCB-74	3.96e+07	0.78	y	32:39	1.02	1230	-	-	*	
PCB-61	8.91e+07	0.78	y	32:50	0.97	2920	-	-	*	Co-elute PCB 70
PCB-70	8.91e+07	0.78	y	32:50	0.97	2920	-	-	*	Co-elute PCB 61
PCB-76	8.27e+07	0.79	y	33:03	1.05	2490	-	-	*	Co-elute PCB 66
PCB-66	8.27e+07	0.79	y	33:03	1.05	2490	-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.24	*	1120	1440	0.642	
PCB-55	1.89e+06	0.77	y	33:32	1.06	56.4	-	-	*	
13C-PCB-54	6.30e+07	0.81	y	25:39	1.36	1600				80.3
PCB-104	*	*	n	NotFnd	1.10	*	368	516	0.382	
PCB-96	5.92e+05	1.53	y	31:28	1.04	23.7	-	-	*	
PCB-103	1.12e+06	1.62	y	31:51	0.84	55.4	-	-	*	
PCB-100	5.91e+05	1.57	y	32:11	0.85	28.9	-	-	*	
PCB-94	3.07e+05	1.53	y	32:36	0.69	18.6	-	-	*	
PCB-98	*	*	n	NotFnd	0.69	*	368	516	0.609	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.69	*	368	516	0.609	Co-elute PCB 98
PCB-95	5.38e+07	1.56	y	33:06	0.77	2900	-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*	368	516	0.540	
PCB-88	9.85e+06	1.50	y	33:29	0.83	491	-	-	*	Co-elute PCB 91
PCB-91	9.85e+06	1.50	y	33:29	0.83	491	-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.89	*	368	516	0.472	
13C-PCB-104	4.81e+07	1.60	y	30:08	1.06	1560				78.4
13C-PCB-28	9.84e+07	1.01	y	26:43	1.72	1980				99.1
13C-PCB-52	5.77e+07	0.80	y	28:60	-	15.4				

PCB-56	5.52e+07	0.80	y	34:00	1.17	1310		-	-	*	Co-elute PCB 60
PCB-60	5.52e+07	0.80	y	34:00	1.17	1310		-	-	*	Co-elute PCB 56
PCB-79	1.81e+06	0.80	y	35:01	1.22	41.5		-	-	*	
PCB-78	5.02e+05	0.75	y	35:37	1.16	12.1		-	-	*	
PCB-81	2.97e+06	0.76	y	36:12	1.25	68.6		-	-	*	
13C-PCB-81	6.92e+07	0.79	y	36:09	1.37	1970					98.6
PCB-77	9.45e+06	0.83	y	36:45	1.06	242		-	-	*	
13C-PCB-77	7.35e+07	0.78	y	36:44	1.44	1990					99.8
PCB-155	4.26e+04	1.37	y	34:16	1.04	1.42	J	-	-	*	
PCB-150	3.72e+05	1.22	y	35:26	0.95	13.6		-	-	*	
PCB-152	1.03e+05	1.16	y	35:53	0.90	3.97	J	-	-	*	
PCB-145	4.58e+04	1.32	y	36:18	0.93	1.71	J	-	-	*	
PCB-136	1.59e+07	1.26	y	36:37	0.93	590		-	-	*	
PCB-148	*	*	n	NotFnd	0.62	*		548	452	0.557	
PCB-154	2.23e+06	1.24	y	37:10	0.75	103		-	-	*	
13C-PCB-155	5.76e+07	1.28	y	34:14	1.44	1560					78.1
13C-PCB-111	6.03e+07	1.61	y	36:18	1.22	1920					96.3
13C-PCB-101	5.13e+07	1.60	y	34:41	-	16.8					
PCB-84	2.99e+07	1.59	y	34:21	0.83	1130		-	-	*	Co-elute PCB 92
PCB-92	2.99e+07	1.59	y	34:21	0.83	1130		-	-	*	Co-elute PCB 84
PCB-89	9.90e+05	1.67	y	34:31	0.81	38.3		-	-	*	
PCB-90	8.96e+07	1.57	y	34:42	0.89	3170		-	-	*	Co-elute PCB 101
PCB-101	8.96e+07	1.57	y	34:42	0.89	3170		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.02	*		1250	1250	0.822	
PCB-99	4.14e+07	1.59	y	35:00	0.98	1330		-	-	*	
PCB-119	2.99e+06	1.64	y	35:26	1.13	82.7		-	-	*	
PCB-83	3.59e+06	1.66	y	35:35	0.90	125		-	-	*	Co-elute PCB 112
PCB-112	3.59e+06	1.66	y	35:35	0.90	125		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.08	*		1250	1250	0.775	
PCB-97	2.18e+07	1.57	y	35:56	0.73	943		-	-	*	
PCB-86	*	*	n	NotFnd	0.79	*		1250	1250	1.06	
PCB-125	3.40e+07	1.57	y	36:12	0.97	1100		-	-	*	Co-elute PCB 87/117
PCB-87	3.40e+07	1.57	y	36:12	0.97	1100		-	-	*	Co-elute PCB 125/117
PCB-117	3.40e+07	1.57	y	36:12	0.97	1100		-	-	*	Co-elute PCB 125/87
PCB-111	2.19e+06	1.51	y	36:21	1.13	60.6		-	-	*	Co-elute PCB 115
PCB-115	2.19e+06	1.51	y	36:21	1.13	60.6		-	-	*	Co-elute PCB 111
PCB-85	1.36e+07	1.59	y	36:26	0.97	438		-	-	*	Co-elute PCB 116
PCB-116	1.36e+07	1.59	y	36:26	0.97	438		-	-	*	Co-elute PCB 85
PCB-120	6.39e+05	1.39	y	36:40	1.18	17.0		-	-	*	
PCB-110	1.10e+08	1.56	y	36:49	1.10	3130		-	-	*	
PCB-82	7.23e+06	1.55	y	37:24	0.62	365		-	-	*	
PCB-124	5.13e+06	1.53	y	38:04	1.10	146		-	-	*	
PCB-108	7.26e+06	1.60	y	38:13	1.20	190		-	-	*	Co-elute PCB 107
PCB-107	7.26e+06	1.60	y	38:13	1.20	190		-	-	*	Co-elute PCB 108
PCB-123	1.52e+06	1.58	y	38:22	1.01	49.1		-	-	*	
13C-PCB-123	6.12e+07	1.56	y	38:20	1.31	1830					91.5
PCB-118	1.01e+08	1.61	y	38:32	1.09	2750		-	-	*	Co-elute PCB 106
PCB-106	1.01e+08	1.61	y	38:32	1.09	2750		-	-	*	Co-elute PCB 118
13C-PCB-118	6.77e+07	1.59	y	38:30	1.46	1820					91.0
PCB-114	2.62e+06	1.57	y	39:09	1.14	72.1		-	-	*	
13C-PCB-114	6.40e+07	1.59	y	39:08	1.34	1880					94.0
PCB-122	1.37e+06	1.58	y	39:16	1.16	37.0		-	-	*	
PCB-105	3.89e+07	1.64	y	39:59	1.19	1050		-	-	*	
13C-PCB-105	6.19e+07	1.58	y	39:57	1.32	1840					92.2

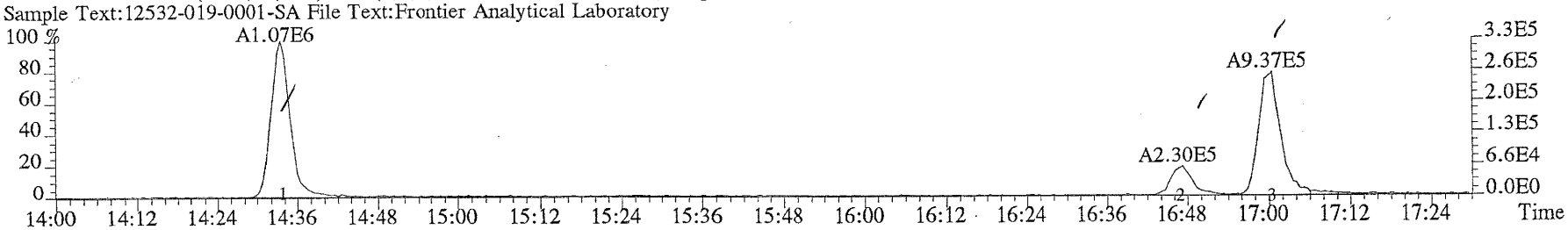
PCB-127	*	*	n	NotFnd	1.06	*	1200	1030	0.709	
PCB-126	7.06e+05	1.64	y	42:04	1.13	20.5	-	-	*	
13C-PCB-126	6.08e+07	1.58	y	42:04	1.20	1990				99.7
PCB-151	2.39e+07	1.26	y	37:49	0.98	864	-	-	*	
PCB-135	1.26e+07	1.26	y	38:00	0.92	485	-	-	*	
PCB-144	5.72e+06	1.28	y	38:07	1.05	192	-	-	*	
PCB-147	2.34e+06	1.26	y	38:13	1.09	76.0	-	-	*	
PCB-139	9.41e+07	1.24	y	38:28	1.08	3100	-	-	*	Co-elute PCB 149
PCB-149	9.41e+07	1.24	y	38:28	1.08	3100	-	-	*	Co-elute PCB 139
PCB-140	8.39e+05	1.26	y	38:40	1.07	27.8	-	-	*	
PCB-143	4.85e+06	1.25	y	39:05	0.86	201	-	-	*	Co-elute PCB 134
PCB-134	4.85e+06	1.25	y	39:05	0.86	201	-	-	*	Co-elute PCB 143
PCB-131	2.85e+06	1.29	y	39:21	0.85	119	-	-	*	Co-elute PCB 133
PCB-133	2.85e+06	1.29	y	39:21	0.85	119	-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.86	*	1160	1080	1.02	
PCB-165	1.77e+07	1.24	y	39:42	1.17	537	-	-	*	Co-elute PCB 146
PCB-146	1.77e+07	1.24	y	39:42	1.17	537	-	-	*	Co-elute PCB 165
PCB-161	2.87e+07	1.23	y	39:59	1.07	951	-	-	*	Co-elute PCB 132
PCB-132	2.87e+07	1.23	y	39:59	1.07	951	-	-	*	Co-elute PCB 161
PCB-153	1.31e+08	1.26	y	40:05	1.16	4000	-	-	*	
PCB-168	*	*	n	NotFnd	1.27	*	1160	1080	0.694	
PCB-141	1.83e+07	1.23	y	40:47	0.93	700	-	-	*	
PCB-137	3.90e+06	1.24	y	41:10	0.87	159	-	-	*	
PCB-130	6.24e+06	1.25	y	41:15	0.85	260	-	-	*	
PCB-138	1.32e+08	1.26	y	41:36	1.13	4160	-	-	*	Co-elute PCB 163/164
PCB-163	1.32e+08	1.26	y	41:36	1.13	4160	-	-	*	Co-elute PCB 138/164
PCB-164	1.32e+08	1.26	y	41:36	1.13	4160	-	-	*	Co-elute PCB 138/163
PCB-158	1.44e+07	1.25	y	41:49	1.27	402	-	-	*	Co-elute PCB 160
PCB-160	1.44e+07	1.25	y	41:49	1.27	402	-	-	*	Co-elute PCB 158
PCB-129	3.71e+06	1.24	y	42:04	0.79	167	-	-	*	
PCB-166	4.36e+05	1.32	y	42:30	1.20	12.9	-	-	*	
PCB-159	1.91e+06	1.29	y	42:52	1.31	51.9	-	-	*	
PCB-128	1.76e+07	1.26	y	43:05	1.03	606	-	-	*	Co-elute PCB 162
PCB-162	1.76e+07	1.26	y	43:05	1.03	606	-	-	*	Co-elute PCB 128
PCB-167	5.26e+06	1.25	y	43:26	1.13	162	-	-	*	
13C-PCB-167	5.76e+07	1.28	y	43:25	1.15	1960				98.2
PCB-156	1.37e+07	1.27	y	44:40	1.23	397	-	-	*	
13C-PCB-156	5.60e+07	1.29	y	44:39	1.11	1970				98.8
PCB-157	2.86e+06	1.27	y	44:55	1.15	85.5	-	-	*	
13C-PCB-157	5.78e+07	1.29	y	44:55	1.14	1980				99.3
PCB-169	*	*	n	NotFnd	1.11	*	1160	1080	0.757	
13C-PCB-169	5.40e+07	1.28	y	46:47	1.08	1960				98.2

FAL ID: 12532-019-0001-SA Filename: 25JUL19Z Sam:13 Acquired: 25-JUL-19 22:52:45 ICal: DAILY209FAL4-7-25-19
Client ID: LDW-Y2-SC-ENR-SS ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 5.010

PCB-188	1.25e+05	1.13	y	39:44	1.06	4.63		-	-	*	
13C-PCB-188	5.11e+07	1.05	y	39:42	1.26	1580					79.4
PCB-184	4.29e+04	0.99	y	40:10	1.24	1.48	J	-	-	*	
PCB-179	1.55e+07	1.06	y	40:53	1.13	585		-	-	*	
PCB-176	4.95e+06	1.03	y	41:20	1.08	195		-	-	*	
PCB-186	*	*	n	NotFnd	1.13	*		850	876	0.613	
PCB-178	5.38e+06	1.06	y	42:22	0.76	303		-	-	*	
PCB-175	1.07e+06	1.15	y	42:42	0.77	59.5		-	-	*	
PCB-187	3.67e+07	1.03	y	42:50	0.86	1830		-	-	*	Co-elute PCB 182
PCB-182	3.67e+07	1.03	y	42:50	0.86	1830		-	-	*	Co-elute PCB 187
PCB-183	1.78e+07	1.06	y	43:10	0.83	921		-	-	*	
PCB-185	2.98e+06	1.06	y	43:48	0.74	171		-	-	*	
PCB-174	2.50e+07	1.06	y	44:07	0.79	1350		-	-	*	
PCB-181	*	*	n	NotFnd	0.70	*		850	876	0.981	
PCB-177	1.46e+07	1.03	y	44:24	0.68	916		-	-	*	
PCB-171	7.21e+06	1.07	y	44:40	0.74	416		-	-	*	
PCB-173	4.79e+05	1.13	y	45:05	0.66	31.1		-	-	*	
PCB-172	3.90e+06	1.06	y	45:28	0.69	241		-	-	*	
PCB-192	*	*	n	NotFnd	0.94	*		850	876	0.736	
PCB-180	5.47e+07	1.08	y	45:48	0.69	3380		-	-	*	
PCB-193	3.85e+06	1.04	y	45:58	0.98	167		-	-	*	
PCB-191	1.34e+06	1.00	y	46:11	0.94	60.5		-	-	*	
PCB-170	2.26e+07	1.06	y	47:05	0.66	1460		-	-	*	
PCB-190	6.66e+06	1.06	y	47:15	0.93	305		-	-	*	
PCB-189	1.13e+06	1.09	y	48:27	1.02	52.0		-	-	*	
13C-PCB-189	4.24e+07	1.06	y	48:26	1.00	1650					82.9
PCB-202	3.33e+06	0.96	y	44:50	1.04	162		-	-	*	
PCB-201	2.26e+06	0.91	y	45:17	1.12	102		-	-	*	
PCB-204	*	*	n	NotFnd	1.09	*		448	872	0.638	
PCB-197	7.23e+05	0.98	y	45:41	1.15	31.7		-	-	*	
PCB-200	1.92e+06	0.93	y	46:27	1.10	88.2		-	-	*	
PCB-198	6.01e+05	0.88	y	47:36	0.73	41.5		-	-	*	
PCB-199	1.07e+07	0.92	y	47:43	0.76	707		-	-	*	
PCB-203	1.36e+07	0.90	y	47:58	0.85	807		-	-	*	Co-elute PCB 196
PCB-196	1.36e+07	0.90	y	47:58	0.85	807		-	-	*	Co-elute PCB 203
13C-PCB-202	3.95e+07	0.91	y	44:49	0.97	1600					80.2
13C-PCB-178	3.75e+07	1.08	y	42:20	0.83	1770					88.9
13C-PCB-138	5.09e+07	1.28	y	41:34	-	18.0					
PCB-195	5.00e+06	0.89	y	49:03	0.77	327		-	-	*	
PCB-194	1.11e+07	0.91	y	49:51	0.84	670		-	-	*	
PCB-205	7.71e+05	0.88	y	50:07	1.04	37.1		-	-	*	
13C-PCB-205	3.97e+07	0.89	y	50:06	1.31	1880					94.4
PCB-208	1.87e+06	1.35	y	49:11	1.00	85.7		-	-	*	
13C-PCB-208	4.34e+07	0.80	y	49:10	1.32	2040					102
PCB-207	8.50e+05	1.31	y	49:29	1.15	41.3		-	-	*	
PCB-206	4.74e+06	1.33	y	51:19	1.04	322		-	-	*	
13C-PCB-206	2.82e+07	0.80	y	51:19	0.97	1800					90.2
PCB-209	2.21e+06	1.18	y	52:33	1.11	127		-	-	*	
13C-PCB-209	3.12e+07	1.21	y	52:31	1.23	1570					78.8
13C-PCB-194	3.21e+07	0.91	y	49:51	-	12.9					

Analyst: _____ Date: 7/26/19

File:25JUL19Z #1-783 Acq:25-JUL-2019 22:52:45 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:12532-019-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-783 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
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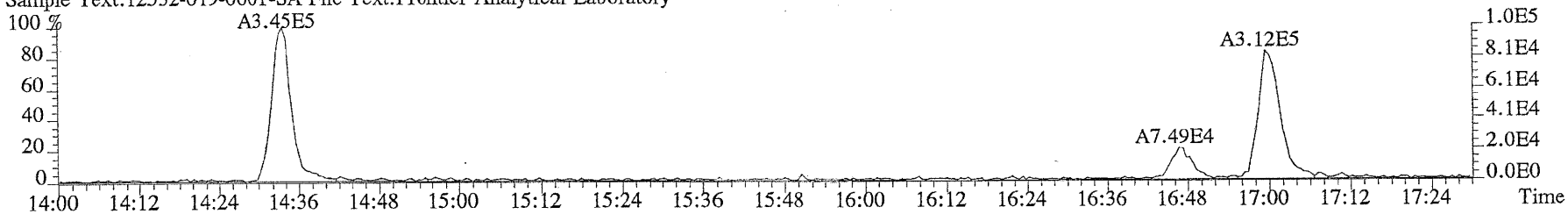

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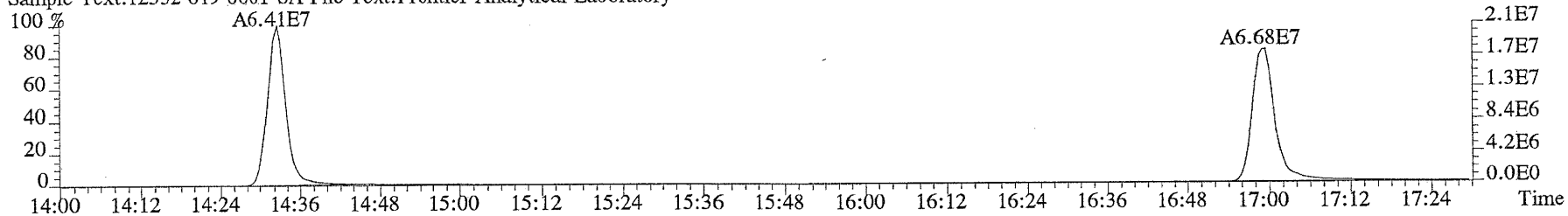

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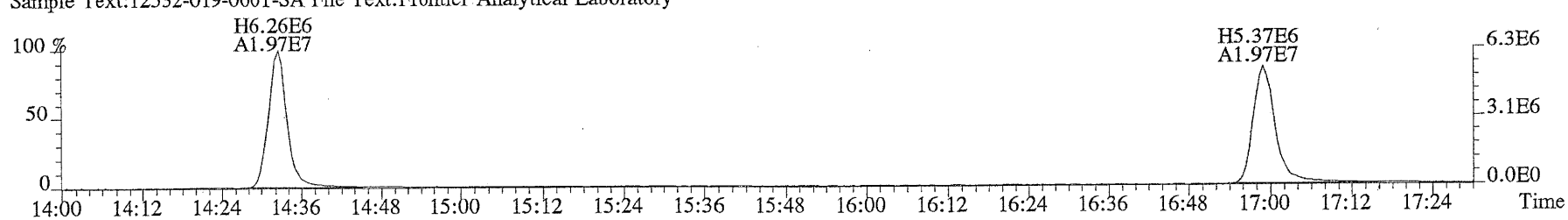
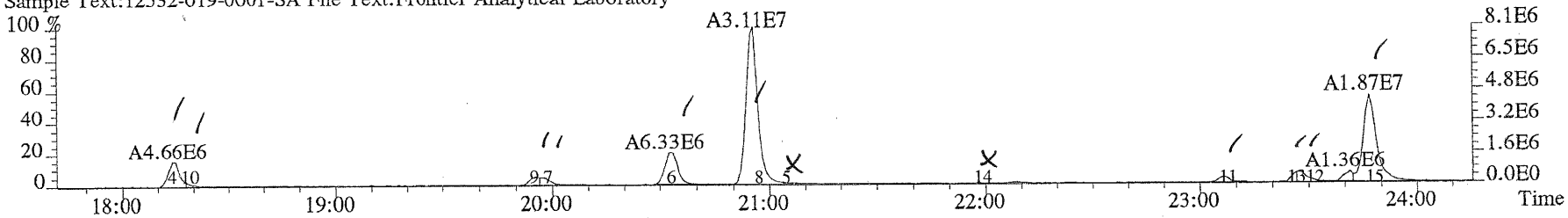
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-520 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-520 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
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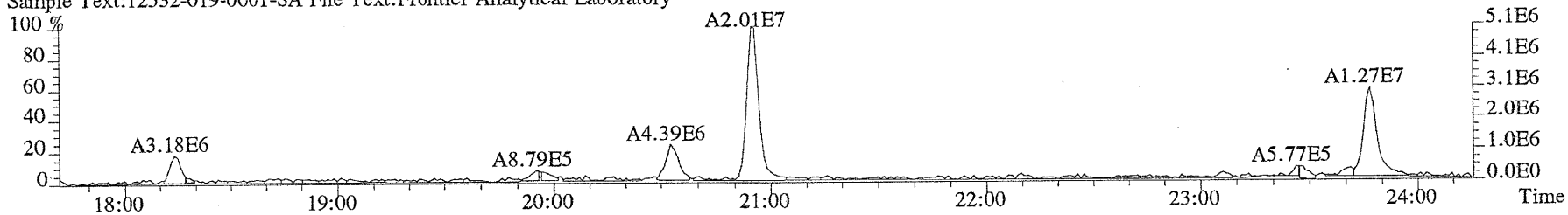
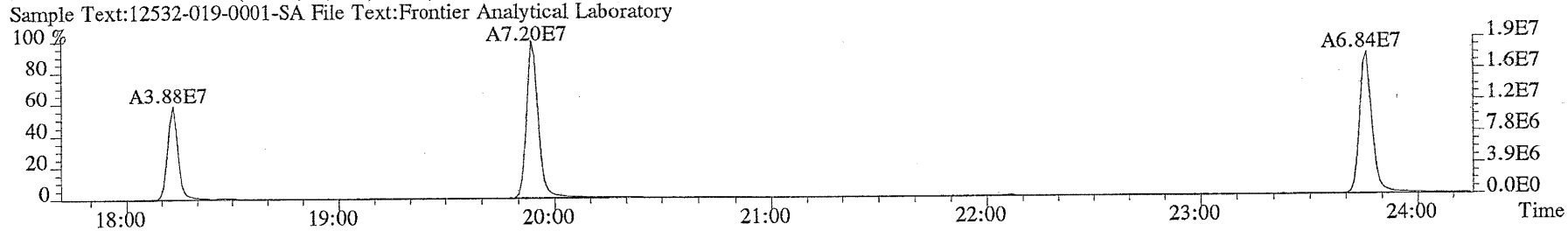
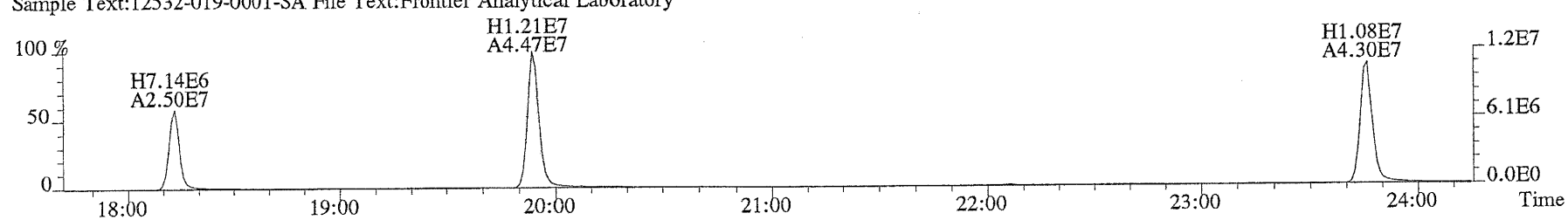
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



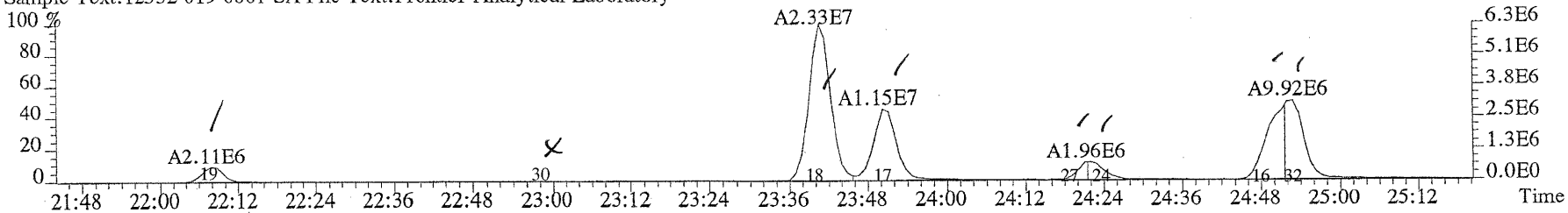
File:25JUL19Z #1-520 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



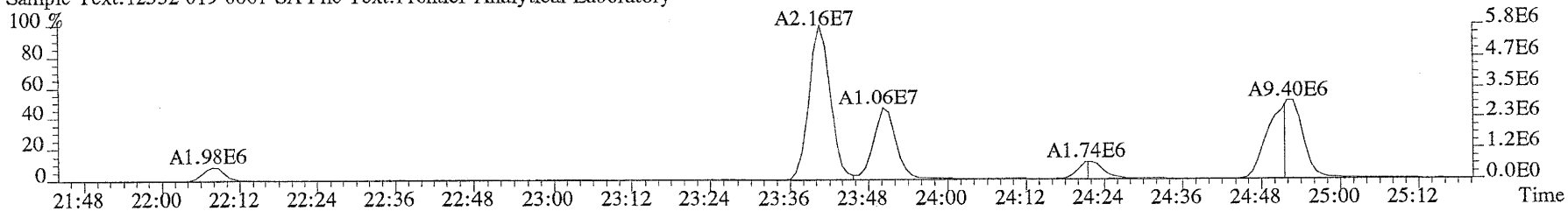
File:25JUL19Z #1-520 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



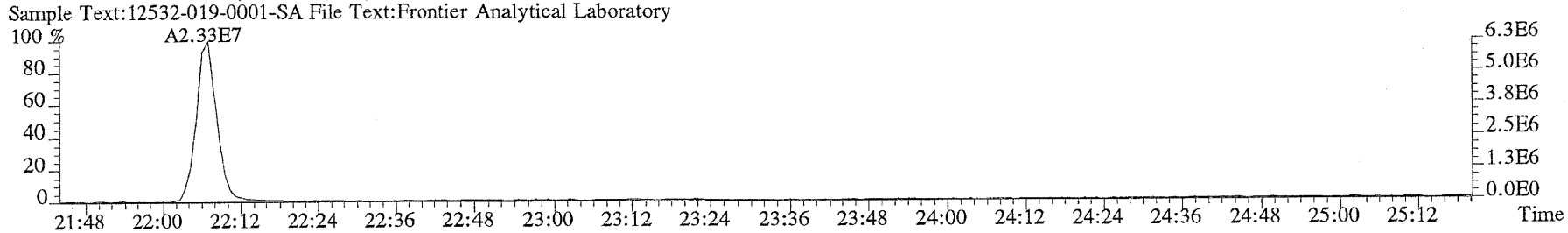
File:25JUL19Z #1-520 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



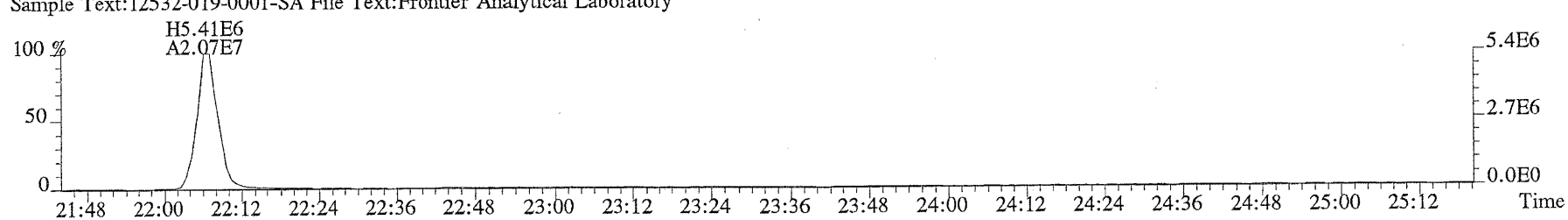
File:25JUL19Z #1-520 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



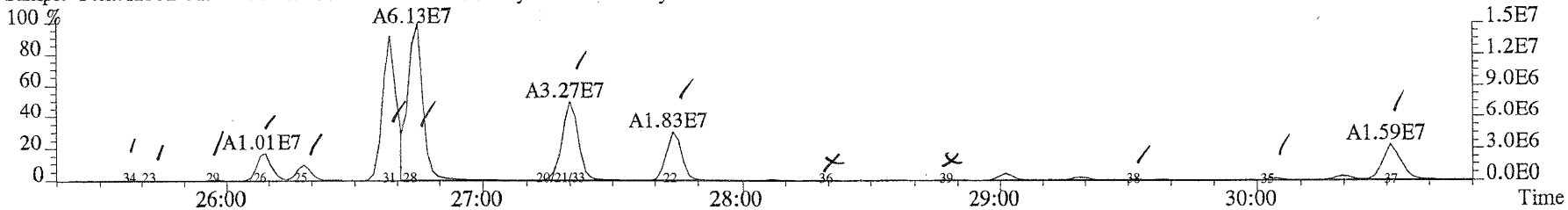
File:25JUL19Z #1-520 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



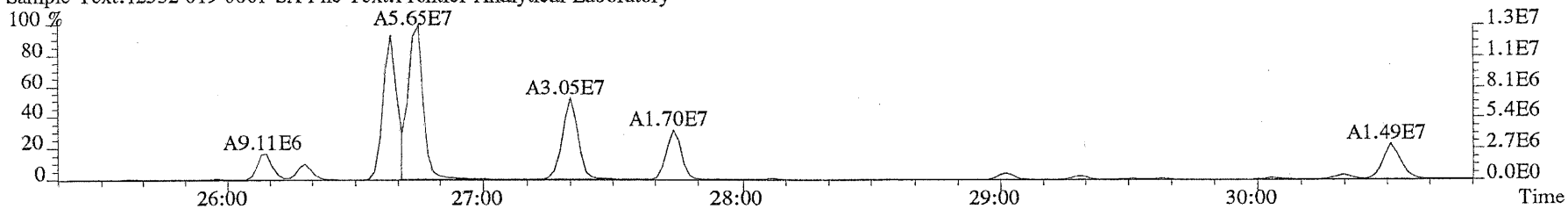
File:25JUL19Z #1-520 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



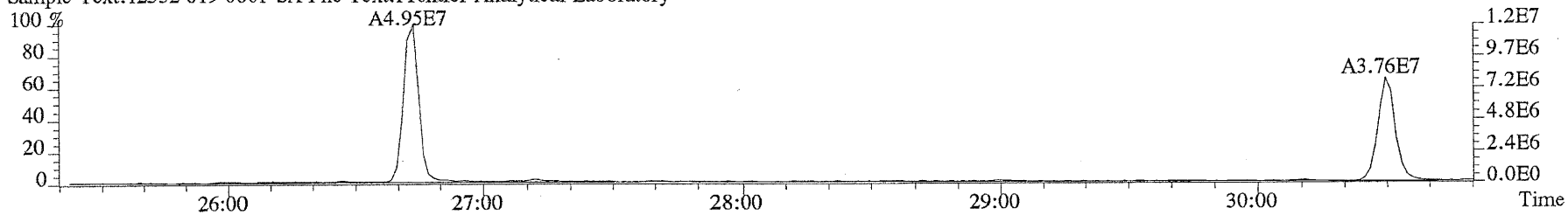
File:25JUL19Z #1-401 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



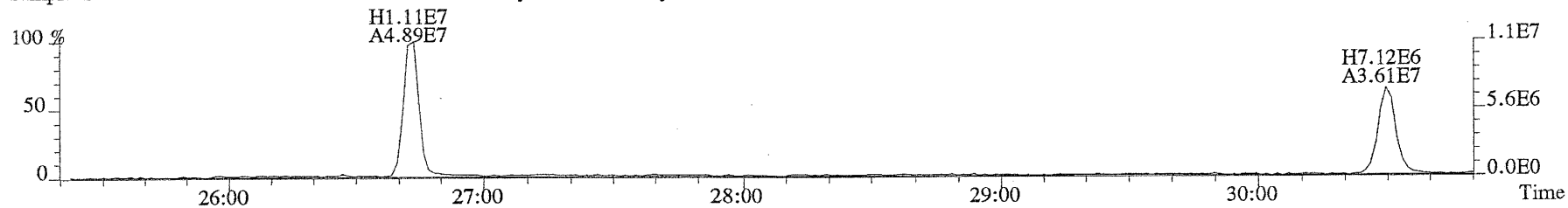
File:25JUL19Z #1-401 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



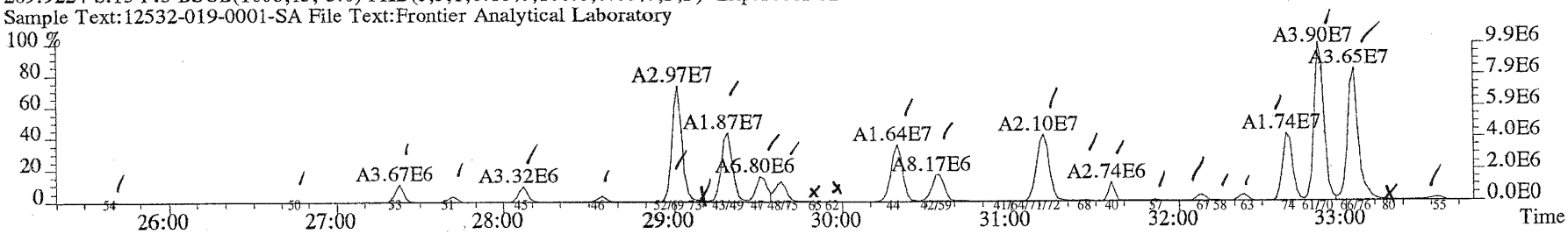
File:25JUL19Z #1-401 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



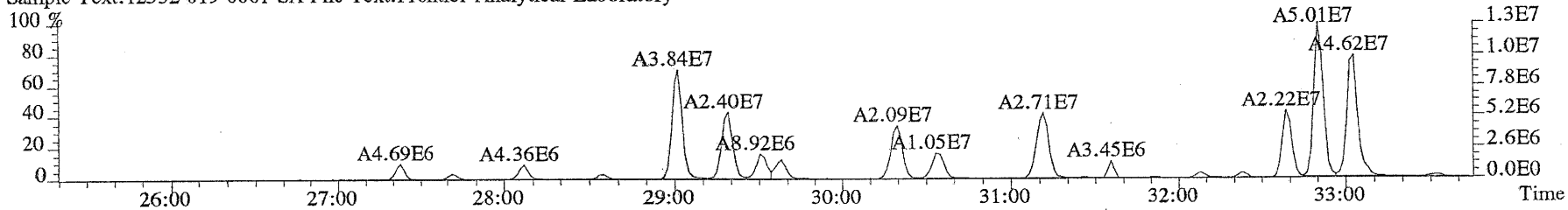
File:25JUL19Z #1-401 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



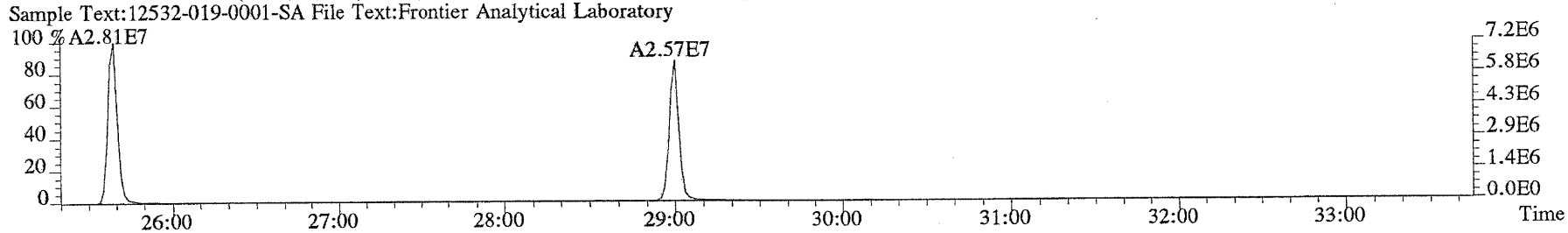
File:25JUL19Z #1-401 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



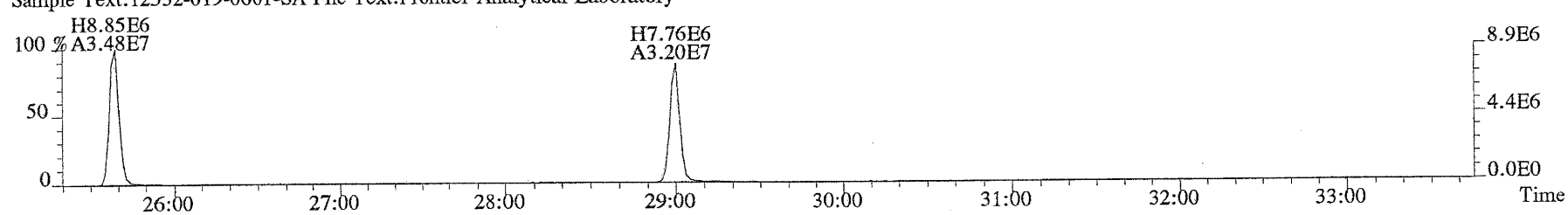
File:25JUL19Z #1-401 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



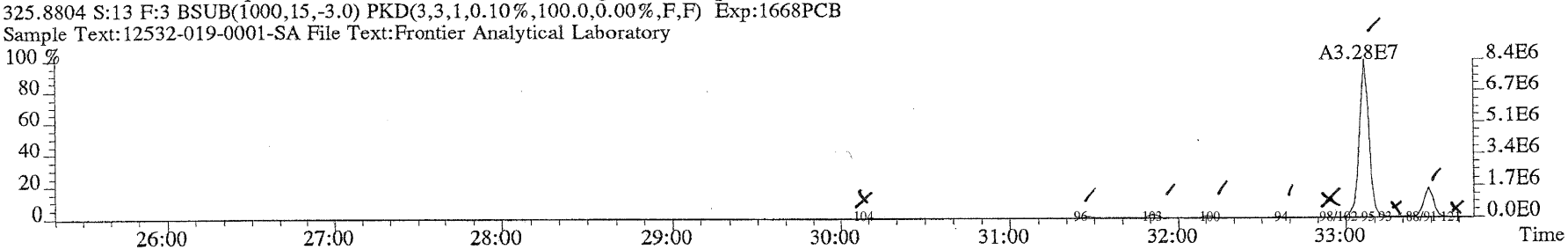
File:25JUL19Z #1-401 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



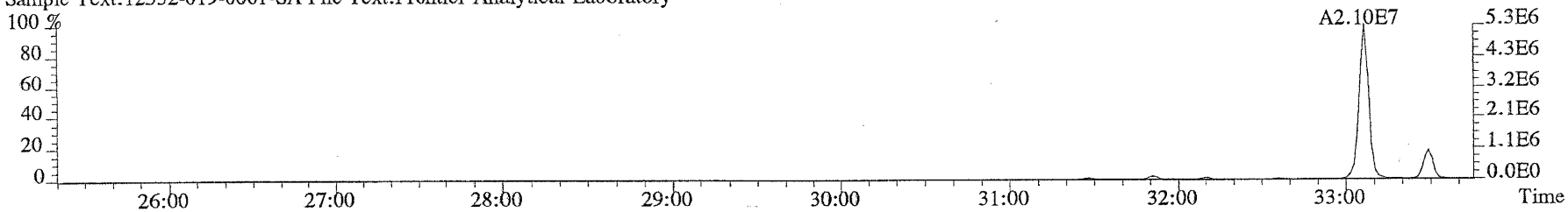
File:25JUL19Z #1-401 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



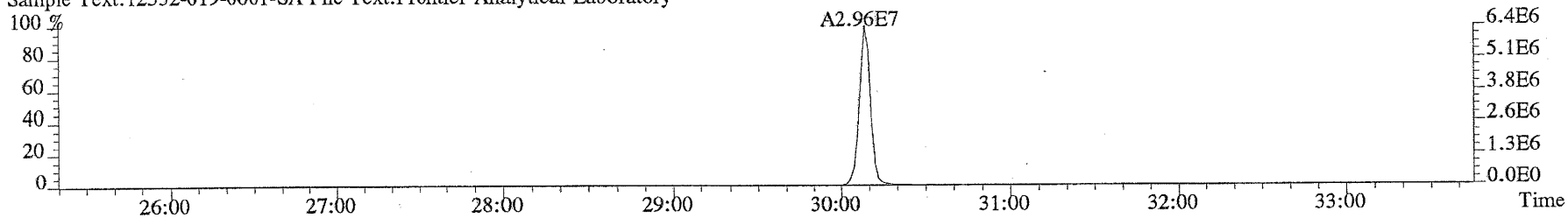
File:25JUL19Z #1-401 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



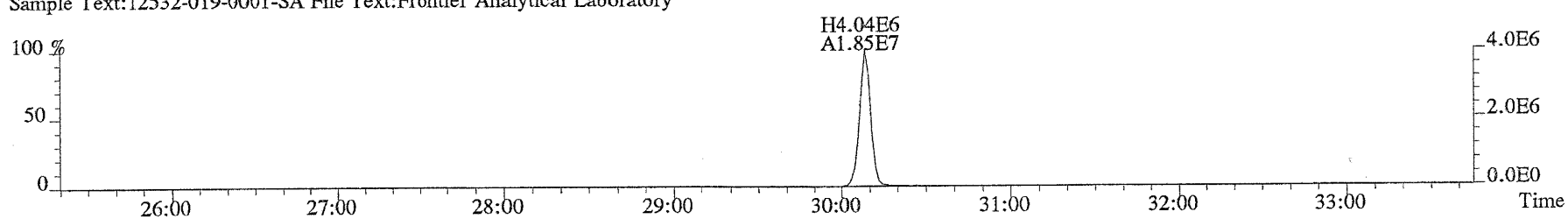
File:25JUL19Z #1-401 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



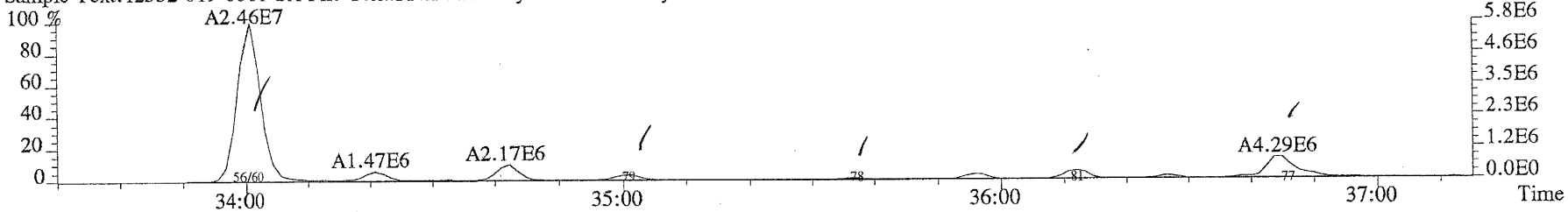
File:25JUL19Z #1-401 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



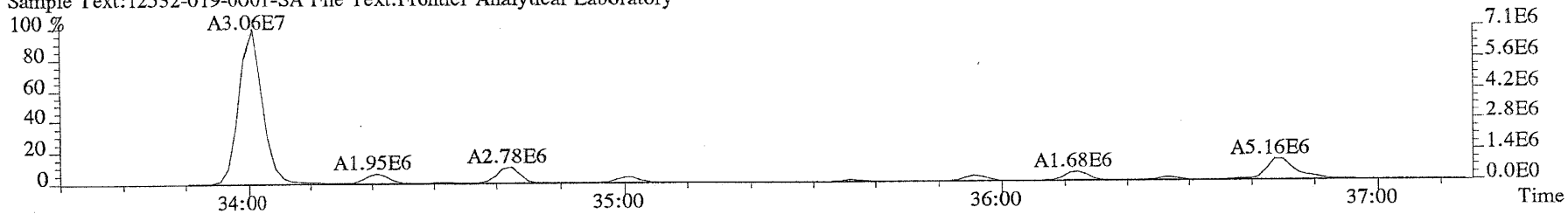
File:25JUL19Z #1-401 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



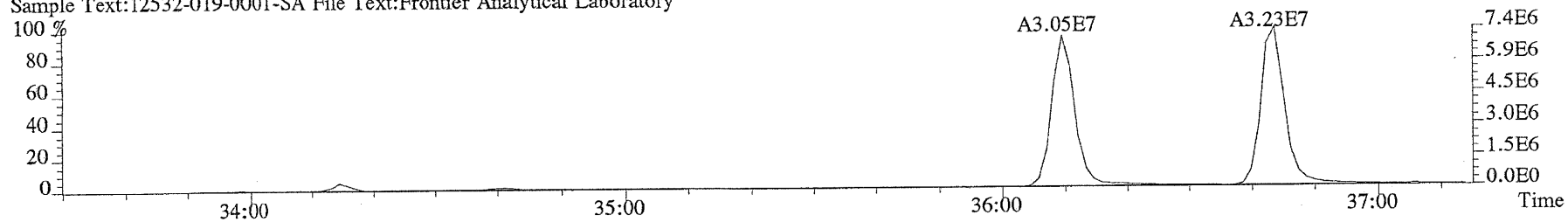
File:25JUL19Z #1-181 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



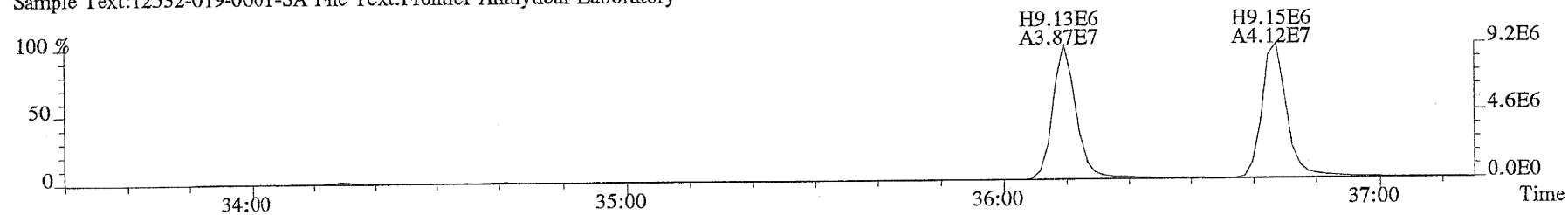
File:25JUL19Z #1-181 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



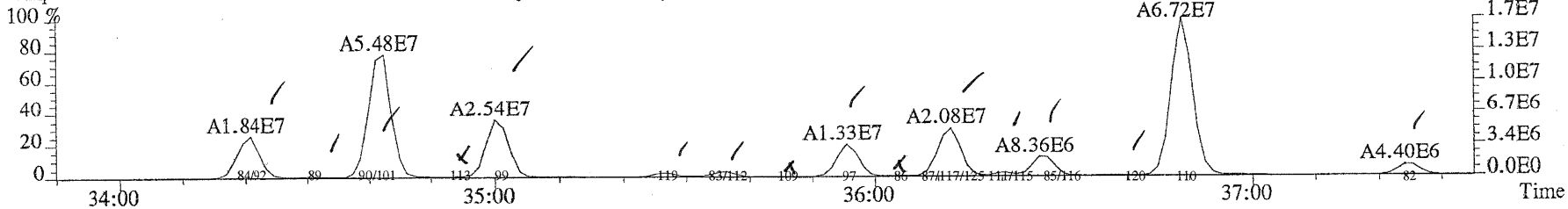
File:25JUL19Z #1-181 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



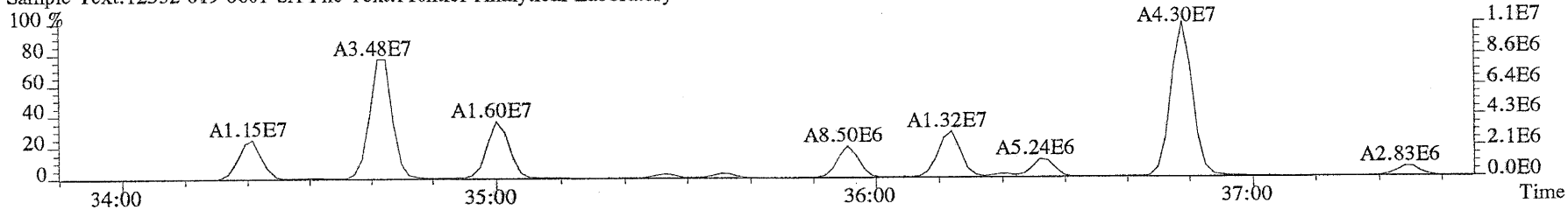
File:25JUL19Z #1-181 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



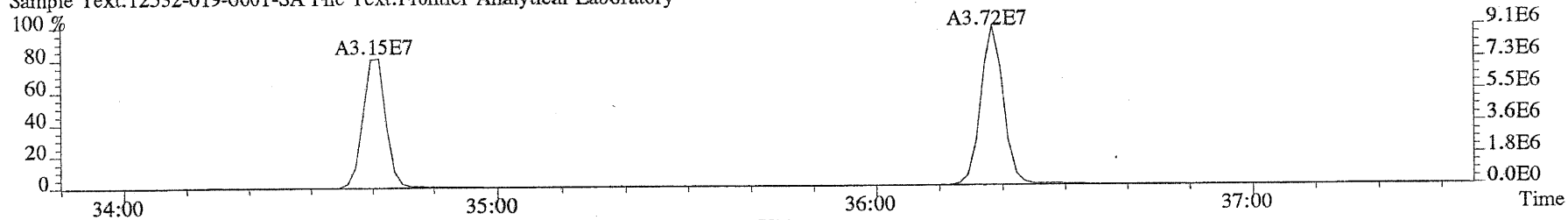
File:25JUL19Z #1-181 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



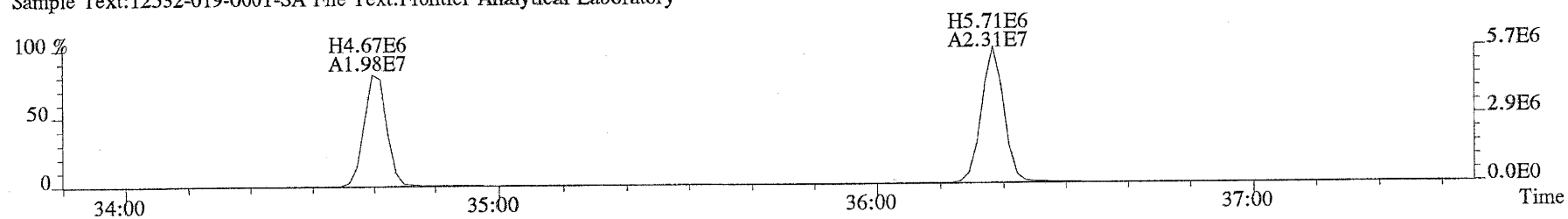
File:25JUL19Z #1-181 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



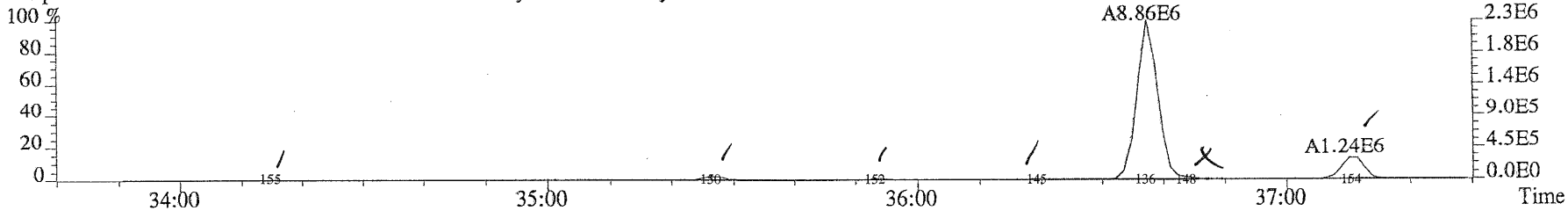
File:25JUL19Z #1-181 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



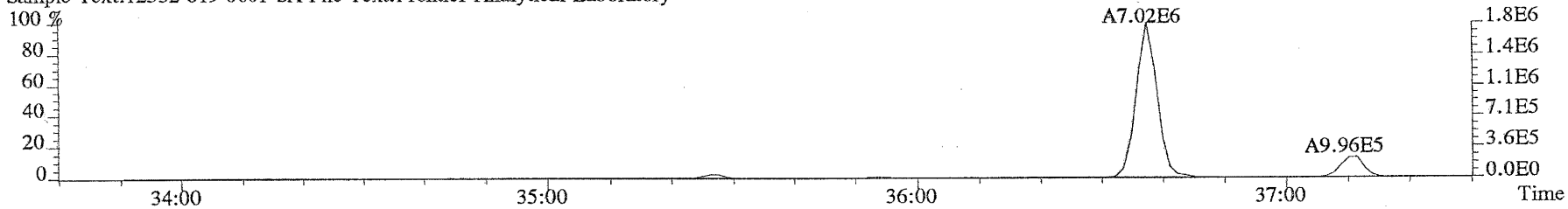
File:25JUL19Z #1-181 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



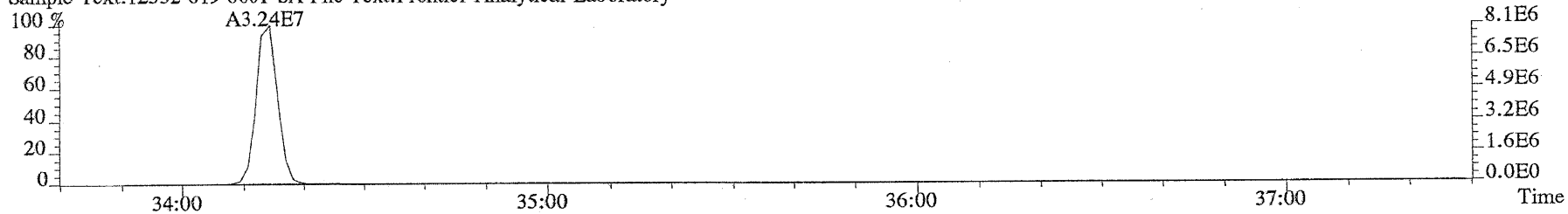
File:25JUL19Z #1-181 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



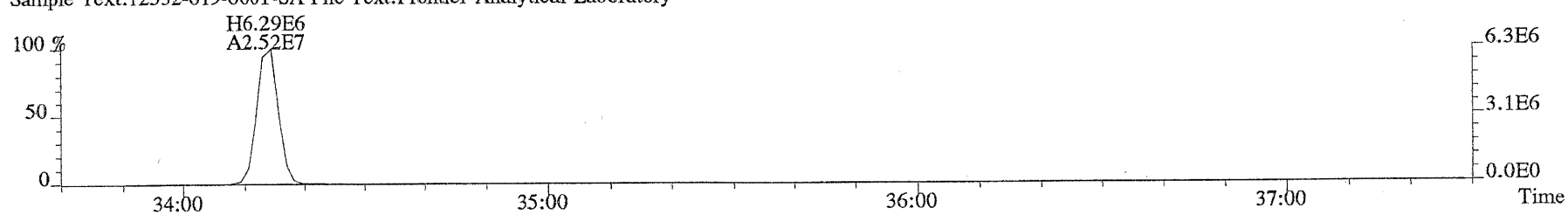
File:25JUL19Z #1-181 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



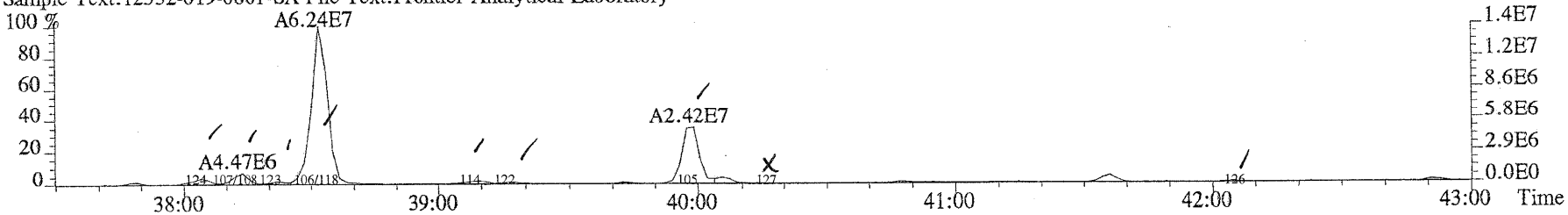
File:25JUL19Z #1-181 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



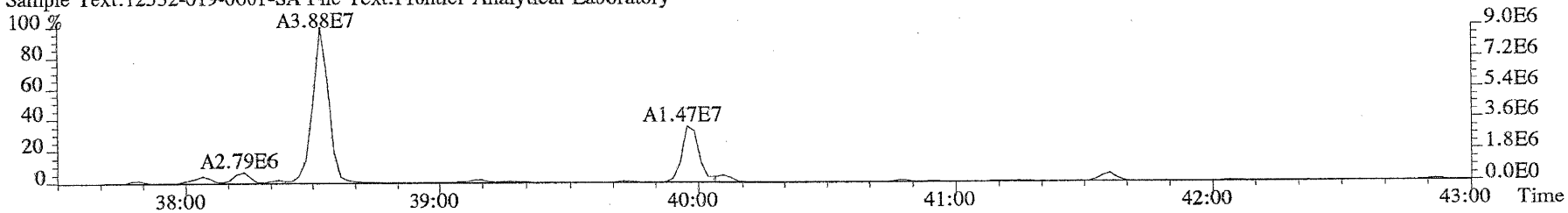
File:25JUL19Z #1-181 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



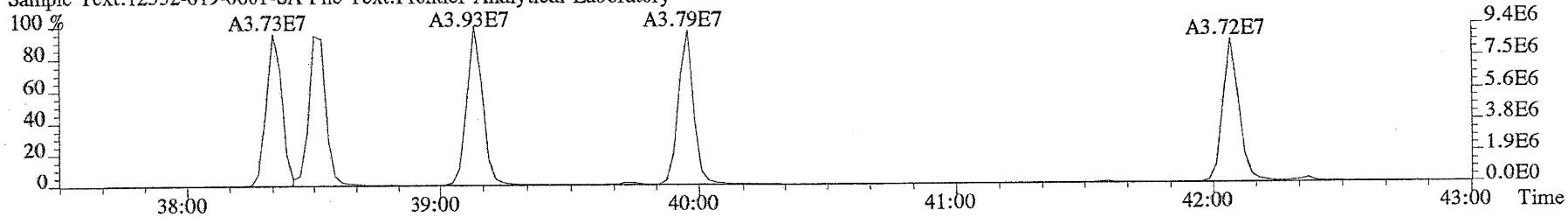
File:25JUL19Z #1-405 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



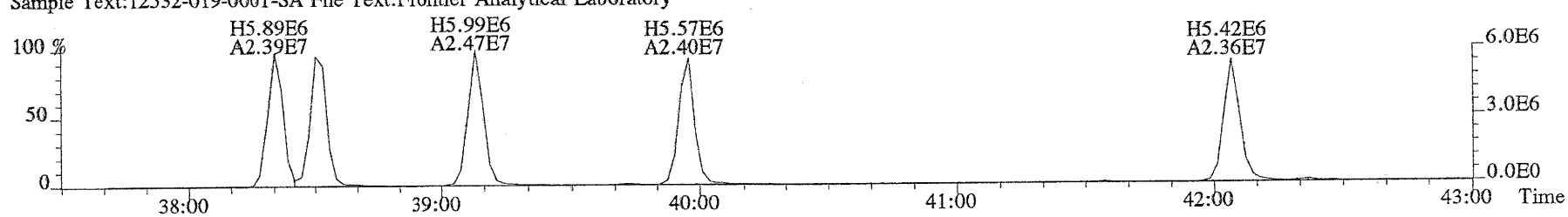
File:25JUL19Z #1-405 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



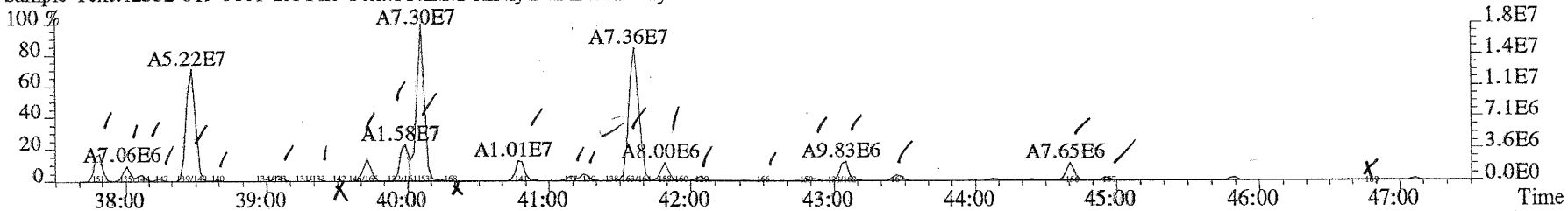
File:25JUL19Z #1-405 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 22:52:45 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:12532-019-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 22:52:45 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:12532-019-0001-SA File Text:Frontier Analytical Laboratory



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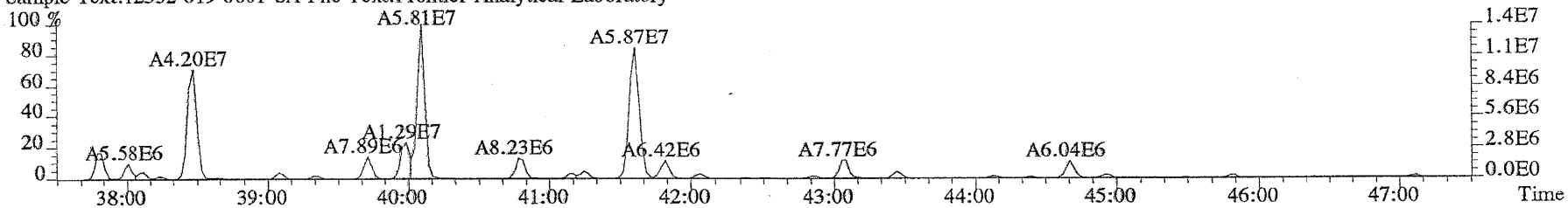
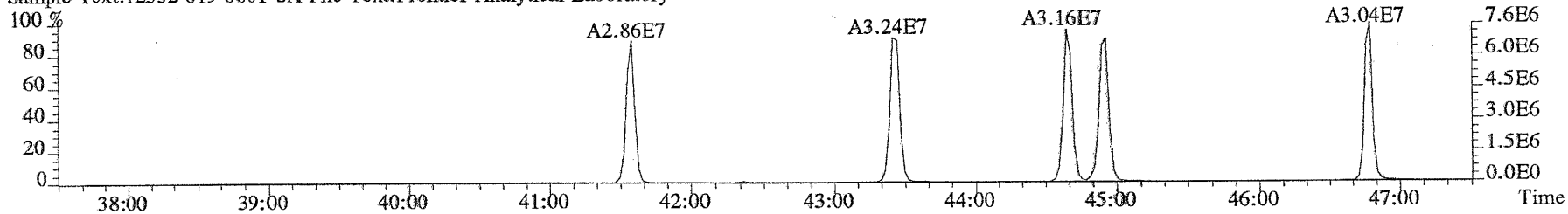
361.8385 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 22:52:45 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:12532-019-0001-SA File Text:Frontier Analytical Laboratory



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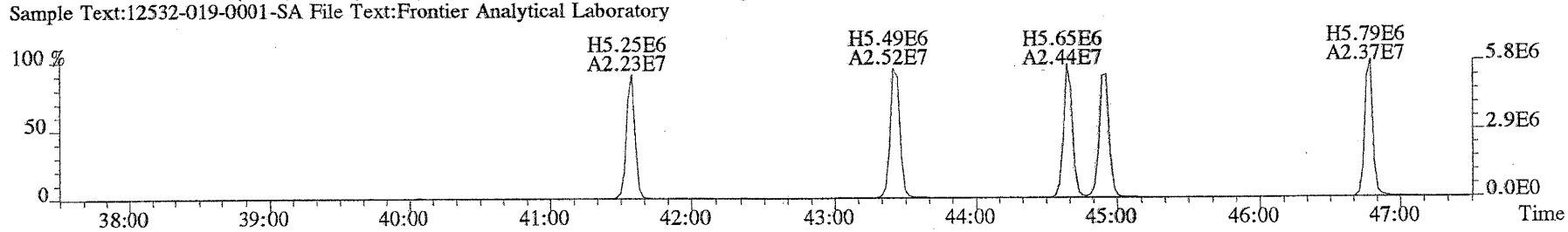
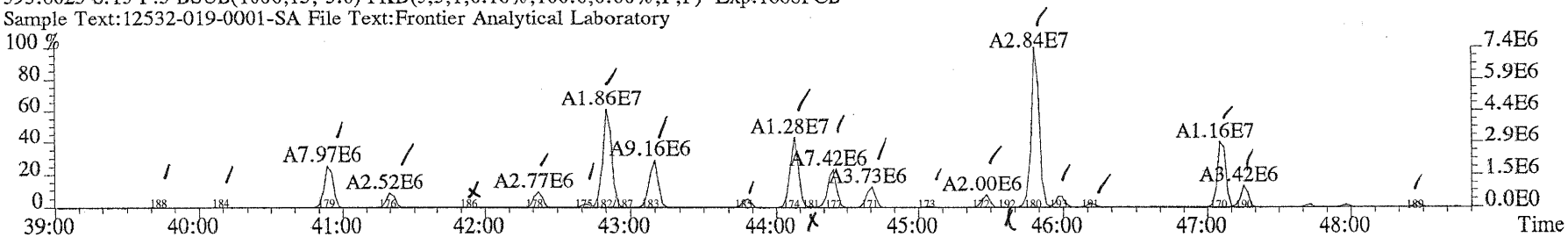
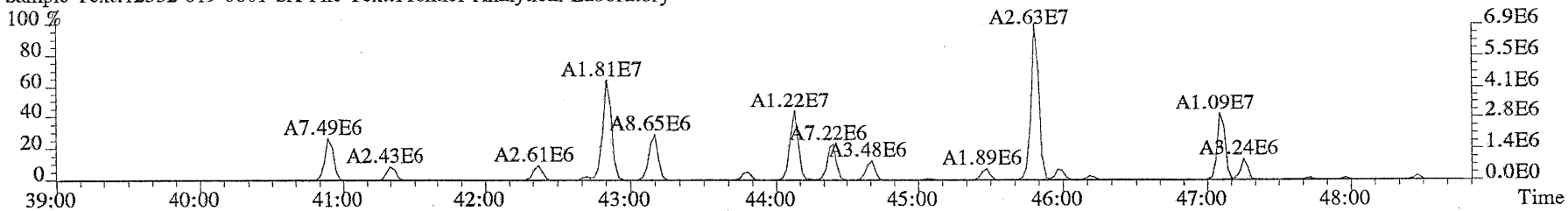
373.8788 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



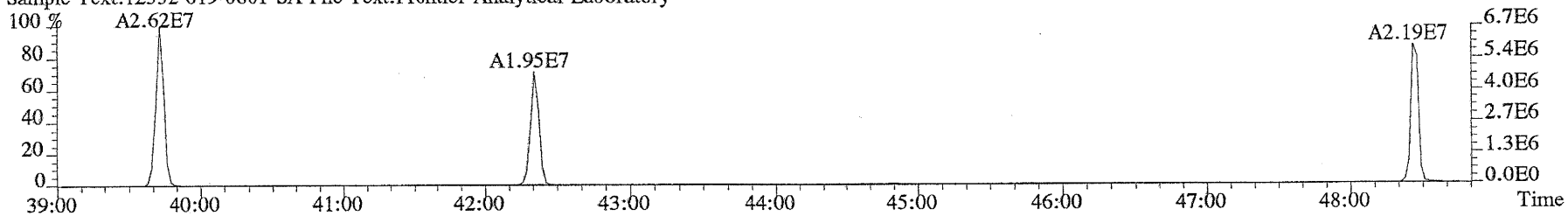
File:25JUL19Z #1-405 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



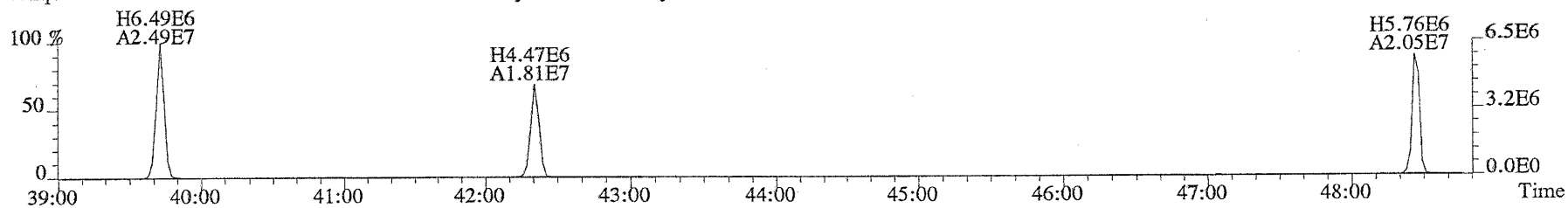
File:25JUL19Z #1-405 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



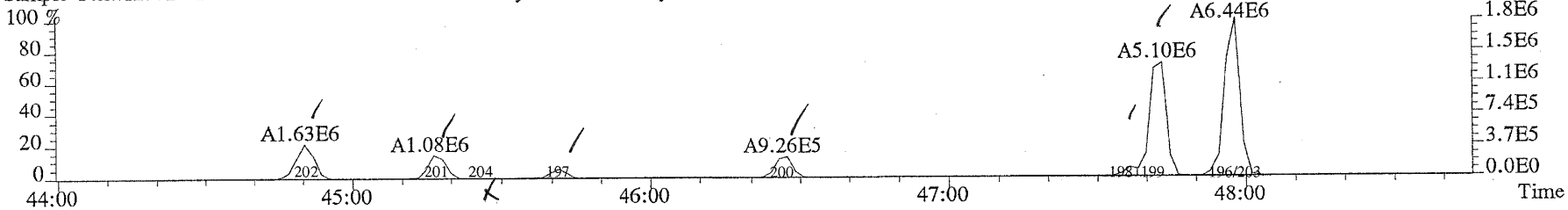
File:25JUL19Z #1-405 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



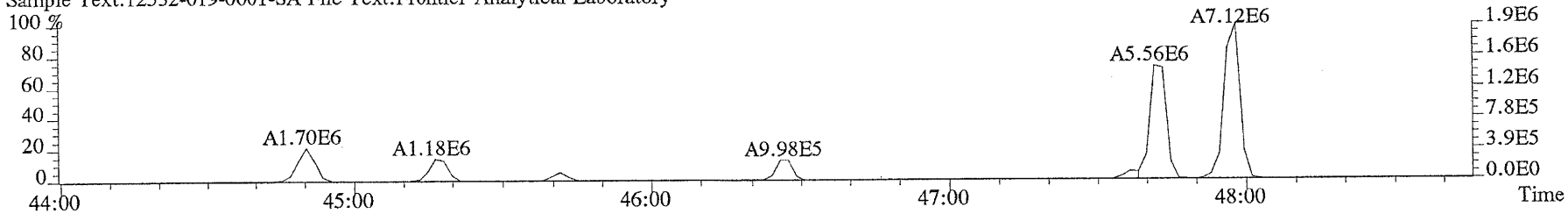
File:25JUL19Z #1-405 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



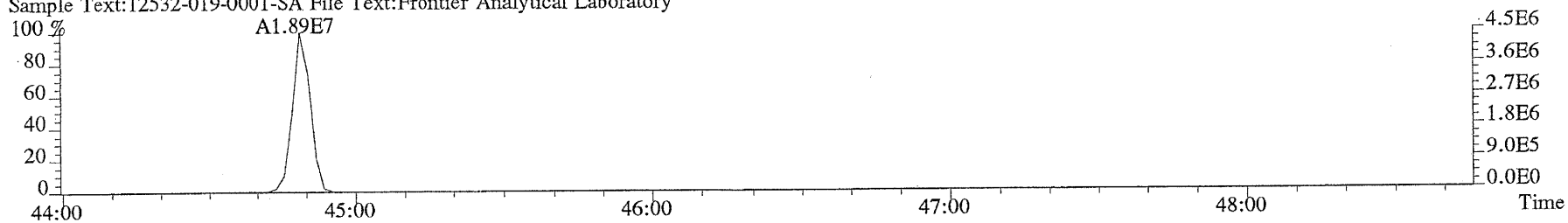
File:25JUL19Z #1-405 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



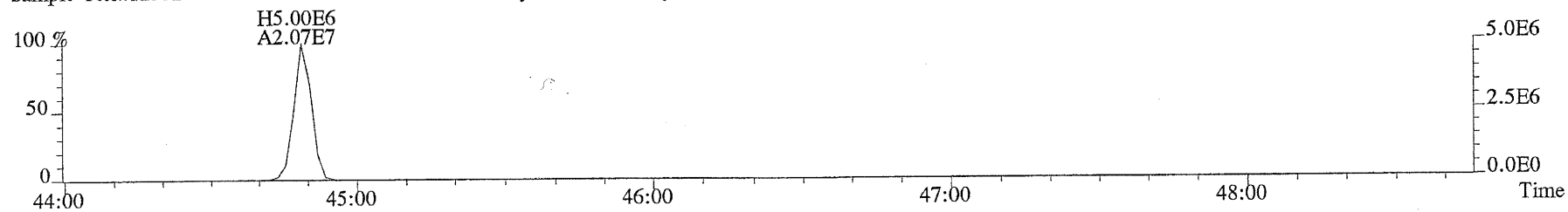
File:25JUL19Z #1-405 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



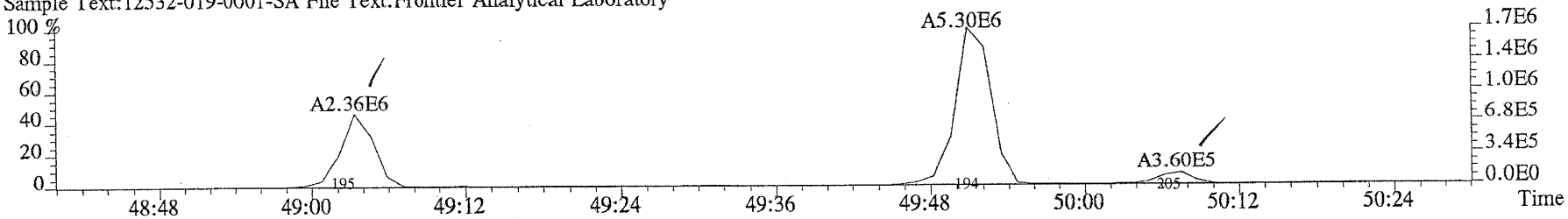
File:25JUL19Z #1-405 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



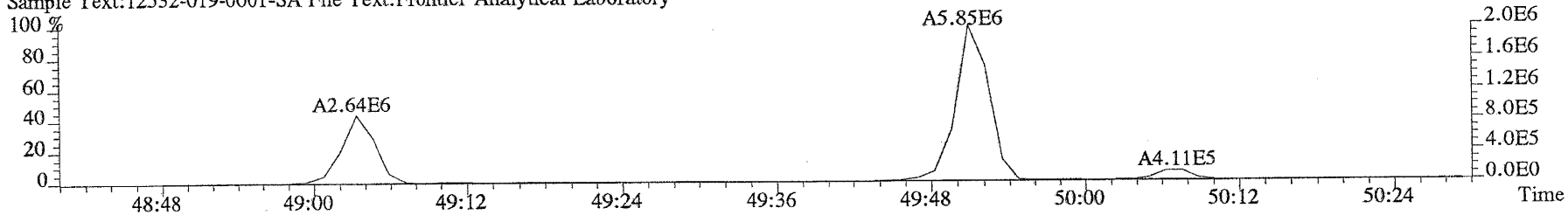
File:25JUL19Z #1-405 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



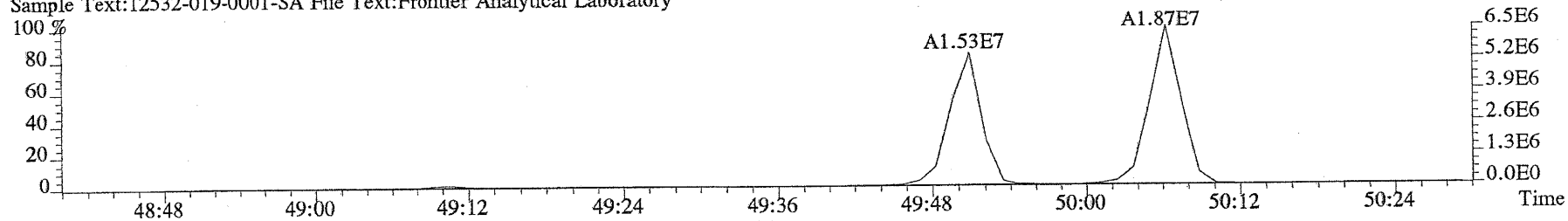
File:25JUL19Z #1-315 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



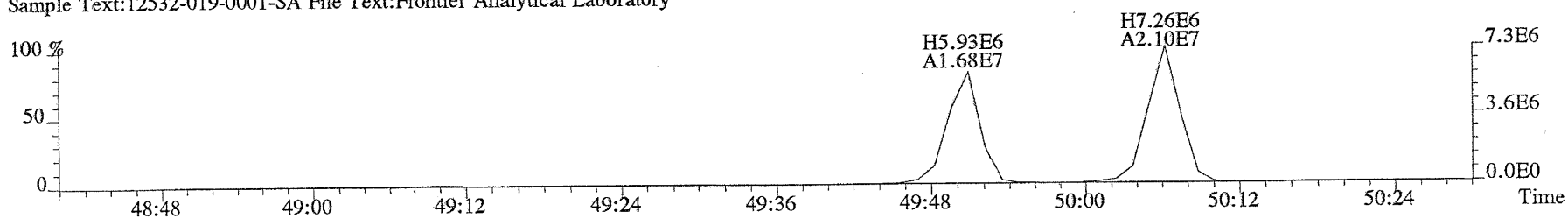
File:25JUL19Z #1-315 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



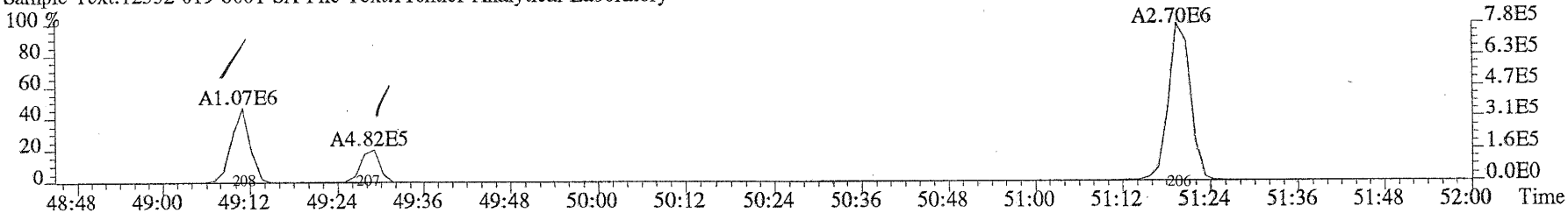
File:25JUL19Z #1-315 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



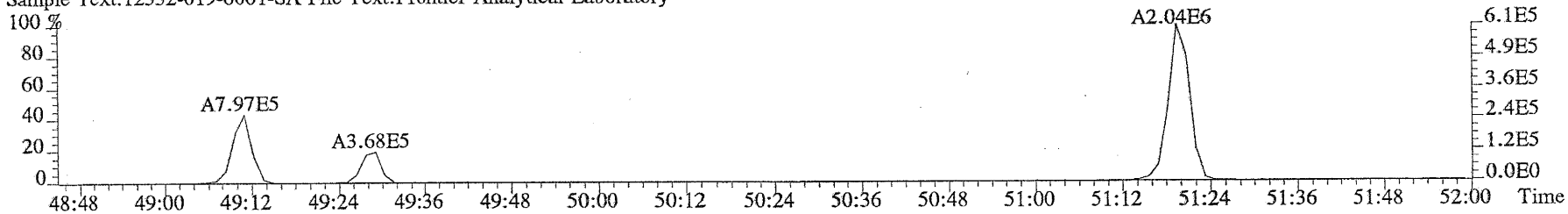
File:25JUL19Z #1-315 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



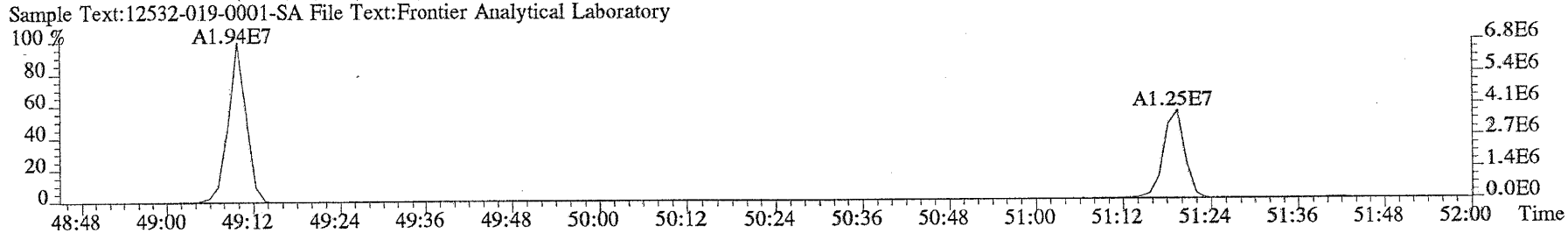
File:25JUL19Z #1-315 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



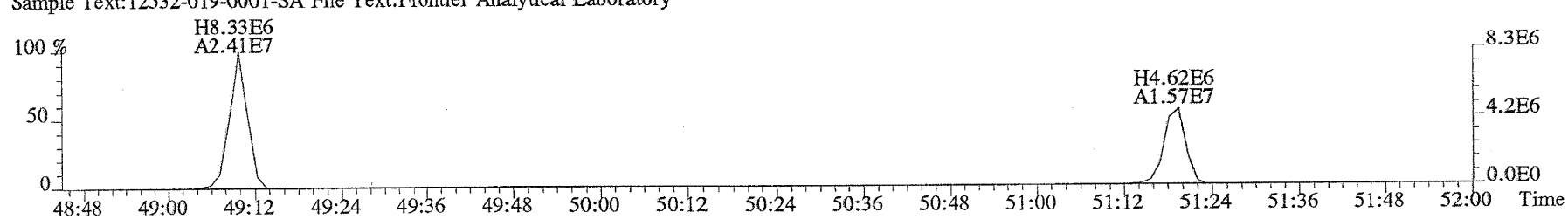
File:25JUL19Z #1-315 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



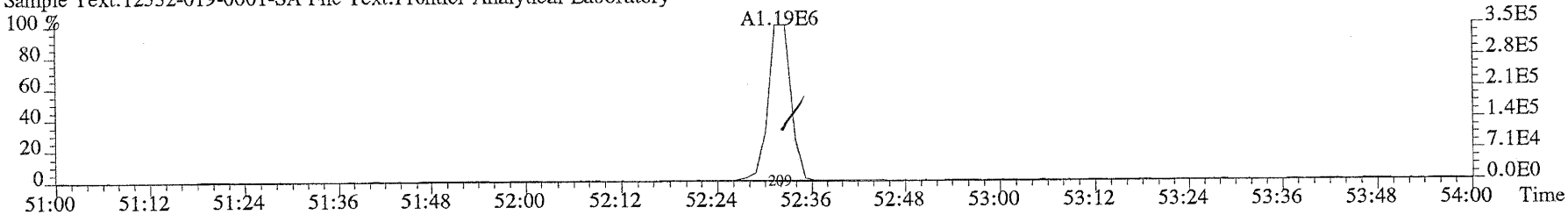
File:25JUL19Z #1-315 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



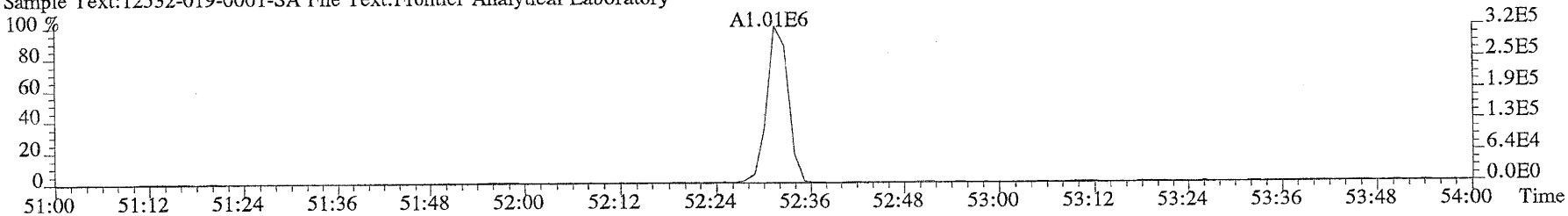
File:25JUL19Z #1-315 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



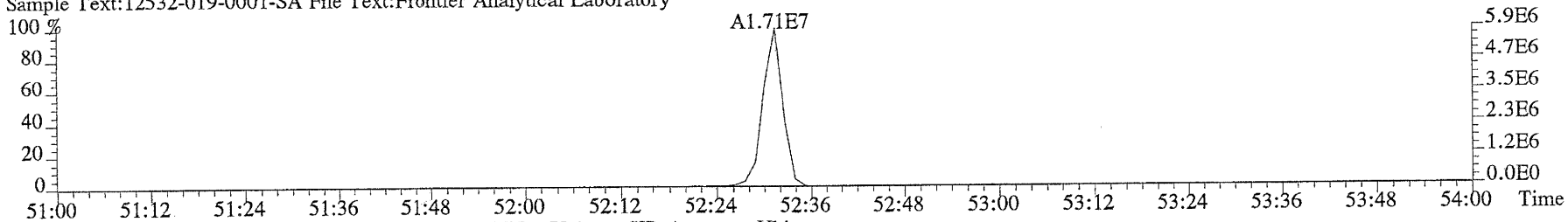
File:25JUL19Z #1-315 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



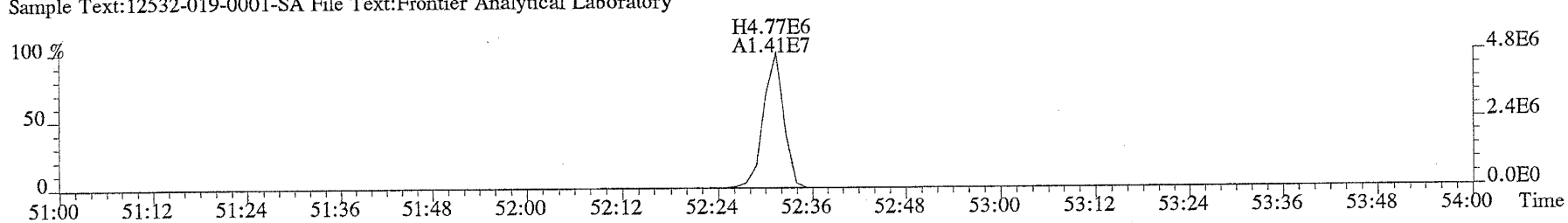
File:25JUL19Z #1-315 Acq:25-JUL-2019 22:52:45 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-019-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 22:52:45 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:12532-019-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 22:52:45 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:12532-019-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12532-020-0001-SA Filename: 25JUL19Z Sam:14 Acquired: 25-JUL-19 23:51:06 ICal: DAILY209FAL4-7-25-19
Client ID: LDW-Y2-SC-ENR+AC-SS ConCal: ST07251921 EndCal: ST07251922
Results: 12532-11 GC Column: DB1MS Amount: 5.030

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	7.54e+05	3.14 y	14:34	1.17	11.6		-	-	*	
13C-PCB-1	1.11e+08	3.31 y	14:33	0.90	1780					89.7
PCB-2	1.34e+05	2.94 y	16:47	1.20	2.03	J	-	-	*	
PCB-3	5.40e+05	3.06 y	17:00	1.20	8.35		-	-	*	
13C-PCB-3	1.07e+08	3.28 y	16:59	0.87	1790					90.0
PCB-4	4.50e+06	1.41 y	18:15	1.10	101		-	-	*	
PCB-10	5.95e+05	1.50 y	18:17	1.40	7.90		-	-	*	
13C-PCB-4	8.04e+07	1.56 y	18:13	0.66	1780					89.6
PCB-9	9.22e+05	1.61 y	19:55	1.32	13.0		-	-	*	
PCB-7	7.57e+05	1.46 y	19:57	1.48	9.49		-	-	*	
PCB-6	4.24e+06	1.43 y	20:33	1.39	56.6		-	-	*	
PCB-8	1.92e+07	1.45 y	20:55	1.34	265		-	-	*	
PCB-5	*	* n	NotFnd	1.36	*		987	5550	0.809	
PCB-14	*	* n	NotFnd	1.30	*		987	5550	0.850	
PCB-11	7.92e+05	1.47 y	23:07	1.23	12.0		-	-	*	
PCB-13	4.79e+05	1.44 y	23:26	1.18	7.51		-	-	*	
PCB-12	1.16e+06	1.37 y	23:27	1.23	17.5		-	-	*	
PCB-15	1.08e+07	1.37 y	23:47	1.10	145		-	-	*	
13C-PCB-15	1.34e+08	1.59 y	23:46	0.90	2170					109
PCB-19	1.77e+06	1.13 y	22:08	1.19	55.6		-	-	*	
PCB-30	*	* n	NotFnd	1.80	*		3840	1400	0.997	
PCB-18	1.79e+07	1.09 y	23:40	1.17	569		-	-	*	
PCB-17	8.60e+06	1.13 y	23:50	1.29	248		-	-	*	
PCB-27	1.26e+06	1.10 y	24:22	1.65	28.4		-	-	*	
PCB-24	1.16e+06	1.10 y	24:23	1.76	24.5		-	-	*	
PCB-16	6.11e+06	1.06 y	24:50	1.43	159		-	-	*	
PCB-32	8.26e+06	1.08 y	24:53	1.46	210		-	-	*	
13C-PCB-19	5.33e+07	1.09 y	22:07	0.49	1590					79.8
13C-PCB-9	1.37e+08	1.60 y	19:54	-	16.6					
PCB-34	2.23e+05	1.15 y	25:38	1.20	4.31		-	-	*	
PCB-23	9.71e+04	0.98 y	25:43	1.47	1.53	J	-	-	*	
PCB-29	3.36e+05	1.13 y	25:57	1.34	5.79		-	-	*	
PCB-26	7.71e+06	1.07 y	26:09	1.27	140		-	-	*	
PCB-25	4.23e+06	1.08 y	26:18	1.26	77.8		-	-	*	
PCB-31	3.56e+07	1.06 y	26:38	1.28	645		-	-	*	
PCB-28	4.37e+07	1.08 y	26:43	1.51	673		-	-	*	
PCB-20	2.51e+07	1.07 y	27:20	1.26	461		-	-	*	Co-elute PCB 21/33
PCB-21	2.51e+07	1.07 y	27:20	1.26	461		-	-	*	Co-elute PCB 20/33
PCB-33	2.51e+07	1.07 y	27:20	1.26	461		-	-	*	Co-elute PCB 20/21
PCB-22	1.39e+07	1.08 y	27:44	1.40	230		-	-	*	
PCB-36	*	* n	NotFnd	1.25	*		1850	1600	0.774	
PCB-39	*	* n	NotFnd	1.24	*		1850	1600	0.775	
PCB-38	3.24e+05	1.24 n	29:32	1.29	5.80		-	-	*	
PCB-35	7.75e+05	1.07 y	30:04	1.13	15.8		-	-	*	
PCB-37	1.22e+07	1.10 y	30:31	1.19	237		-	-	*	
13C-PCB-37	8.58e+07	1.05 y	30:30	1.40	1780					89.6

PCB-54	1.14e+05	0.69	y	25:40	1.22	2.38	J	-	-	*	
PCB-50	9.40e+04	0.73	y	26:46	0.89	2.69	J	-	-	*	
PCB-53	3.56e+06	0.78	y	27:23	0.86	105		-	-	*	
PCB-51	1.31e+06	0.86	y	27:42	0.92	36.2		-	-	*	
PCB-45	3.37e+06	0.78	y	28:07	0.74	115		-	-	*	
PCB-46	1.32e+06	0.77	y	28:35	0.70	47.5		-	-	*	
PCB-52	2.86e+07	0.78	y	29:01	0.90	802		-	-	*	Co-elute PCB 69
PCB-69	2.86e+07	0.78	y	29:01	0.90	802		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.12	*		1400	2260	0.792	
PCB-43	1.87e+07	0.77	y	29:19	0.78	611		-	-	*	Co-elute PCB 49
PCB-49	1.87e+07	0.77	y	29:19	0.78	611		-	-	*	Co-elute PCB 43
PCB-47	7.28e+06	0.80	y	29:30	0.85	218		-	-	*	
PCB-48	6.45e+06	0.81	y	29:38	1.01	162		-	-	*	Co-elute PCB 75
PCB-75	6.45e+06	0.81	y	29:38	1.01	162		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.01	*		1400	2260	0.871	
PCB-62	*	*	n	NotFnd	1.07	*		1400	2260	0.827	
PCB-44	1.63e+07	0.76	y	30:20	0.67	622		-	-	*	
PCB-42	8.63e+06	0.78	y	30:33	0.89	246		-	-	*	Co-elute PCB 59
PCB-59	8.63e+06	0.78	y	30:33	0.89	246		-	-	*	Co-elute PCB 42
PCB-72	2.24e+07	0.78	y	31:11	1.00	567		-	-	*	Co-elute PCB 41/71/64
PCB-41	2.24e+07	0.78	y	31:11	1.00	567		-	-	*	Co-elute PCB 72/71/64
PCB-71	2.24e+07	0.78	y	31:11	1.00	567		-	-	*	Co-elute PCB 72/41/64
PCB-64	2.24e+07	0.78	y	31:11	1.00	567		-	-	*	Co-elute PCB 72/41/71
PCB-68	2.11e+05	0.86	y	31:25	1.14	4.70		-	-	*	
PCB-40	2.77e+06	0.79	y	31:35	0.61	115		-	-	*	
PCB-57	2.75e+05	0.79	y	31:51	1.07	6.52		-	-	*	
PCB-67	1.46e+06	0.78	y	32:07	0.99	37.2		-	-	*	
PCB-58	1.09e+05	0.78	y	32:13	1.11	2.48	J	-	-	*	
PCB-63	1.46e+06	0.76	y	32:22	1.05	35.3		-	-	*	
PCB-74	1.75e+07	0.77	y	32:39	1.02	435		-	-	*	
PCB-61	3.82e+07	0.76	y	32:50	0.97	1000		-	-	*	Co-elute PCB 70
PCB-70	3.82e+07	0.76	y	32:50	0.97	1000		-	-	*	Co-elute PCB 61
PCB-76	3.60e+07	0.77	y	33:03	1.05	869		-	-	*	Co-elute PCB 66
PCB-66	3.60e+07	0.77	y	33:03	1.05	869		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.24	*		1400	2260	0.714	
PCB-55	1.12e+06	0.77	y	33:32	1.06	26.8		-	-	*	
13C-PCB-54	7.83e+07	0.81	y	25:39	1.36	1670					84.2
PCB-104	*	*	n	NotFnd	1.10	*		444	424	0.323	
PCB-96	2.45e+05	1.59	y	31:28	1.04	8.14		-	-	*	
PCB-103	4.73e+05	1.53	y	31:51	0.84	19.4		-	-	*	
PCB-100	2.47e+05	1.55	y	32:11	0.85	10.0		-	-	*	
PCB-94	1.32e+05	1.54	y	32:36	0.69	6.64		-	-	*	
PCB-98	*	*	n	NotFnd	0.69	*		444	424	0.515	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.69	*		444	424	0.515	Co-elute PCB 98
PCB-95	2.03e+07	1.54	y	33:06	0.77	908		-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*		444	424	0.456	
PCB-88	4.02e+06	1.54	y	33:29	0.83	167		-	-	*	Co-elute PCB 91
PCB-91	4.02e+06	1.54	y	33:29	0.83	167		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.89	*		444	424	0.399	
13C-PCB-104	5.76e+07	1.59	y	30:08	1.06	1570					79.2
13C-PCB-28	1.11e+08	1.03	y	26:43	1.72	1880					94.3
13C-PCB-52	6.84e+07	0.80	y	28:60	-	18.1					

PCB-56	2.55e+07	0.80	y	34:01	1.17	506		-	-	*	Co-elute PCB 60
PCB-60	2.55e+07	0.80	y	34:01	1.17	506		-	-	*	Co-elute PCB 56
PCB-79	7.69e+05	0.75	y	35:01	1.22	14.7		-	-	*	
PCB-78	1.82e+05	0.84	y	35:37	1.16	3.66	J	-	-	*	
PCB-81	1.14e+06	0.79	y	36:12	1.25	21.9		-	-	*	
13C-PCB-81	8.32e+07	0.79	y	36:09	1.37	2000					101
PCB-77	4.03e+06	0.82	y	36:45	1.06	86.7		-	-	*	
13C-PCB-77	8.72e+07	0.77	y	36:44	1.44	1990					100
PCB-155	*	*	n	NotFnd	1.04	*		512	492	0.289	
PCB-150	1.67e+05	1.30	y	35:27	0.95	5.07		-	-	*	
PCB-152	4.50e+04	1.12	y	35:54	0.90	1.44	J	-	-	*	
PCB-145	*	*	n	NotFnd	0.93	*		512	492	0.323	
PCB-136	6.32e+06	1.26	y	36:37	0.93	195		-	-	*	
PCB-148	*	*	n	NotFnd	0.62	*		512	492	0.481	
PCB-154	9.16e+05	1.20	y	37:10	0.75	35.2		-	-	*	
13C-PCB-155	6.90e+07	1.30	y	34:14	1.44	1580					79.3
13C-PCB-111	7.39e+07	1.58	y	36:18	1.22	1990					100
13C-PCB-101	6.05e+07	1.62	y	34:40	-	19.7					
PCB-84	1.18e+07	1.58	y	34:21	0.83	361		-	-	*	Co-elute PCB 92
PCB-92	1.18e+07	1.58	y	34:21	0.83	361		-	-	*	Co-elute PCB 84
PCB-89	4.09e+05	1.43	y	34:31	0.81	12.8		-	-	*	
PCB-90	3.49e+07	1.57	y	34:41	0.89	1000		-	-	*	Co-elute PCB 101
PCB-101	3.49e+07	1.57	y	34:41	0.89	1000		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.02	*		1400	900	0.616	
PCB-99	1.66e+07	1.53	y	35:00	0.98	431		-	-	*	
PCB-119	1.22e+06	1.61	y	35:27	1.13	27.4		-	-	*	
PCB-83	1.49e+06	1.52	y	35:35	0.90	42.2		-	-	*	Co-elute PCB 112
PCB-112	1.49e+06	1.52	y	35:35	0.90	42.2		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.08	*		1400	900	0.580	
PCB-97	8.88e+06	1.57	y	35:56	0.73	311		-	-	*	
PCB-86	2.00e+05	1.56	y	36:04	0.79	6.42		-	-	*	
PCB-125	1.34e+07	1.57	y	36:12	0.97	350		-	-	*	Co-elute PCB 87/117
PCB-87	1.34e+07	1.57	y	36:12	0.97	350		-	-	*	Co-elute PCB 125/117
PCB-117	1.34e+07	1.57	y	36:12	0.97	350		-	-	*	Co-elute PCB 125/87
PCB-111	9.37e+05	1.52	y	36:20	1.13	21.0		-	-	*	Co-elute PCB 115
PCB-115	9.37e+05	1.52	y	36:20	1.13	21.0		-	-	*	Co-elute PCB 111
PCB-85	5.80e+06	1.53	y	36:26	0.97	151		-	-	*	Co-elute PCB 116
PCB-116	5.80e+06	1.53	y	36:26	0.97	151		-	-	*	Co-elute PCB 85
PCB-120	2.51e+05	1.48	y	36:40	1.18	5.42		-	-	*	
PCB-110	4.34e+07	1.59	y	36:49	1.10	1000		-	-	*	
PCB-82	3.07e+06	1.53	y	37:24	0.62	126		-	-	*	
PCB-124	2.03e+06	1.54	y	38:04	1.10	46.8		-	-	*	
PCB-108	2.85e+06	1.58	y	38:14	1.20	60.5		-	-	*	Co-elute PCB 107
PCB-107	2.85e+06	1.58	y	38:14	1.20	60.5		-	-	*	Co-elute PCB 108
PCB-123	8.01e+05	1.48	y	38:22	1.01	21.1		-	-	*	
13C-PCB-123	7.46e+07	1.57	y	38:20	1.31	1800					90.8
PCB-118	3.88e+07	1.60	y	38:32	1.09	870		-	-	*	Co-elute PCB 106
PCB-106	3.88e+07	1.60	y	38:32	1.09	870		-	-	*	Co-elute PCB 118
13C-PCB-118	8.16e+07	1.62	y	38:32	1.46	1780					89.3
PCB-114	1.12e+06	1.55	y	39:10	1.14	24.8		-	-	*	
13C-PCB-114	7.90e+07	1.58	y	39:08	1.34	1880					94.5
PCB-122	6.27e+05	1.60	y	39:16	1.16	13.7		-	-	*	
PCB-105	1.61e+07	1.66	y	39:57	1.19	345		-	-	*	
13C-PCB-105	7.79e+07	1.60	y	39:57	1.32	1880					94.5

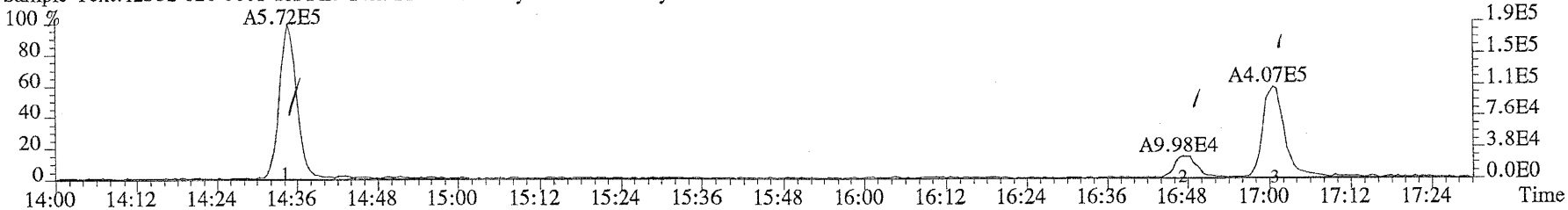
PCB-127	*	*	n	NotFnd	1.06	*		1380	1270	0.686	
PCB-126	3.06e+05	1.41	y	42:06	1.13	7.04		-	-	*	
13C-PCB-126	7.65e+07	1.58	y	42:04	1.20	2030					102
PCB-151	9.81e+06	1.28	y	37:47	0.98	278		-	-	*	
PCB-135	5.23e+06	1.26	y	38:00	0.92	157		-	-	*	
PCB-144	2.34e+06	1.30	y	38:07	1.05	61.5		-	-	*	
PCB-147	9.44e+05	1.22	y	38:14	1.09	24.0		-	-	*	
PCB-139	3.78e+07	1.25	y	38:28	1.08	976		-	-	*	Co-elute PCB 149
PCB-149	3.78e+07	1.25	y	38:28	1.08	976		-	-	*	Co-elute PCB 139
PCB-140	3.81e+05	1.19	y	38:40	1.07	9.90		-	-	*	
PCB-143	2.01e+06	1.24	y	39:05	0.86	65.0		-	-	*	Co-elute PCB 134
PCB-134	2.01e+06	1.24	y	39:05	0.86	65.0		-	-	*	Co-elute PCB 143
PCB-131	1.19e+06	1.23	y	39:21	0.85	38.9		-	-	*	Co-elute PCB 133
PCB-133	1.19e+06	1.23	y	39:21	0.85	38.9		-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.86	*		1270	1120	0.818	
PCB-165	7.26e+06	1.26	y	39:42	1.17	172		-	-	*	Co-elute PCB 146
PCB-146	7.26e+06	1.26	y	39:42	1.17	172		-	-	*	Co-elute PCB 165
PCB-161	1.18e+07	1.21	y	39:59	1.07	305		-	-	*	Co-elute PCB 132
PCB-132	1.18e+07	1.21	y	39:59	1.07	305		-	-	*	Co-elute PCB 161
PCB-153	5.35e+07	1.27	y	40:05	1.16	1280		-	-	*	
PCB-168	*	*	n	NotFnd	1.27	*		1270	1120	0.555	
PCB-141	7.36e+06	1.22	y	40:48	0.93	220		-	-	*	
PCB-137	1.54e+06	1.26	y	41:10	0.87	49.0		-	-	*	
PCB-130	2.64e+06	1.32	y	41:15	0.85	86.1		-	-	*	
PCB-138	5.41e+07	1.25	y	41:36	1.13	1330		-	-	*	Co-elute PCB 163/164
PCB-163	5.41e+07	1.25	y	41:36	1.13	1330		-	-	*	Co-elute PCB 138/164
PCB-164	5.41e+07	1.25	y	41:36	1.13	1330		-	-	*	Co-elute PCB 138/163
PCB-158	6.04e+06	1.27	y	41:49	1.27	132		-	-	*	Co-elute PCB 160
PCB-160	6.04e+06	1.27	y	41:49	1.27	132		-	-	*	Co-elute PCB 158
PCB-129	1.49e+06	1.27	y	42:04	0.79	52.4		-	-	*	
PCB-166	2.11e+05	1.18	y	42:30	1.20	4.88		-	-	*	
PCB-159	7.80e+05	1.26	y	42:50	1.31	16.5		-	-	*	
PCB-128	7.31e+06	1.24	y	43:05	1.03	197		-	-	*	Co-elute PCB 162
PCB-162	7.31e+06	1.24	y	43:05	1.03	197		-	-	*	Co-elute PCB 128
PCB-167	2.30e+06	1.28	y	43:26	1.13	55.1		-	-	*	
13C-PCB-167	7.35e+07	1.29	y	43:25	1.15	2030					102
PCB-156	5.64e+06	1.27	y	44:40	1.23	128		-	-	*	
13C-PCB-156	7.15e+07	1.29	y	44:39	1.11	2040					103
PCB-157	1.18e+06	1.27	y	44:55	1.15	27.8		-	-	*	
13C-PCB-157	7.30e+07	1.29	y	44:54	1.14	2030					102
PCB-169	*	*	n	NotFnd	1.11	*		1270	1120	0.602	
13C-PCB-169	6.89e+07	1.29	y	46:45	1.08	2030					102

FAL ID: 12532-020-0001-SA Filename: 25JUL19Z Sam:14 Acquired: 25-JUL-19 23:51:06 ICal: DAILY209FAL4-7-25-19
Client ID: LDW-Y2-SC-ENR+AC-SS ConCal: ST072519Z1 EndCal: ST072519Z2
Results: 12532-11 GC Column: DB1MS Amount: 5.030

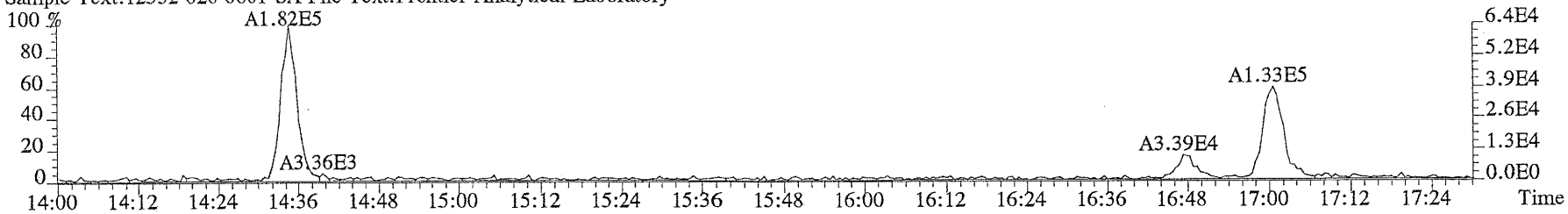
PCB-188	5.39e+04	0.94	y	39:44	1.06	1.61	J	-	-	*	
13C-PCB-188	6.32e+07	1.06	y	39:42	1.26	1590					79.9
PCB-184	*	*	n	NotFnd	1.24	*		924	1090	0.488	
PCB-179	6.52e+06	1.06	y	40:53	1.13	196		-	-	*	
PCB-176	2.13e+06	1.06	y	41:20	1.08	67.0		-	-	*	
PCB-186	*	*	n	NotFnd	1.13	*		924	1090	0.536	
PCB-178	2.26e+06	1.10	y	42:22	0.76	101		-	-	*	
PCB-175	5.20e+05	1.06	y	42:42	0.77	23.0		-	-	*	
PCB-187	1.53e+07	1.06	y	42:50	0.86	608		-	-	*	Co-elute PCB 182
PCB-182	1.53e+07	1.06	y	42:50	0.86	608		-	-	*	Co-elute PCB 187
PCB-183	7.59e+06	1.07	y	43:10	0.83	312		-	-	*	
PCB-185	1.26e+06	1.02	y	43:48	0.74	57.5		-	-	*	
PCB-174	1.03e+07	1.07	y	44:07	0.79	442		-	-	*	
PCB-181	*	*	n	NotFnd	0.70	*		924	1090	0.859	
PCB-177	6.28e+06	1.04	y	44:24	0.68	312		-	-	*	
PCB-171	3.16e+06	1.05	y	44:40	0.74	145		-	-	*	
PCB-173	1.93e+05	0.98	y	45:05	0.66	9.99		-	-	*	
PCB-172	1.71e+06	1.07	y	45:28	0.69	84.0		-	-	*	
PCB-192	*	*	n	NotFnd	0.94	*		924	1090	0.644	
PCB-180	2.26e+07	1.06	y	45:48	0.69	1110		-	-	*	
PCB-193	1.68e+06	1.02	y	45:59	0.98	57.9		-	-	*	
PCB-191	5.65e+05	1.04	y	46:11	0.94	20.3		-	-	*	
PCB-170	9.64e+06	1.04	y	47:05	0.66	497		-	-	*	
PCB-190	2.94e+06	1.06	y	47:15	0.93	107		-	-	*	
PCB-189	5.14e+05	1.03	y	48:28	1.02	18.6		-	-	*	
13C-PCB-189	5.39e+07	1.10	y	48:26	1.00	1710					85.8
PCB-202	1.32e+06	0.89	y	44:50	1.04	52.5		-	-	*	
PCB-201	9.42e+05	0.92	y	45:18	1.12	34.7		-	-	*	
PCB-204	*	*	n	NotFnd	1.09	*		580	760	0.488	
PCB-197	3.10e+05	0.86	y	45:41	1.15	11.1		-	-	*	
PCB-200	8.23e+05	0.87	y	46:26	1.10	30.8		-	-	*	
PCB-198	2.36e+05	0.88	y	47:37	0.73	13.3		-	-	*	
PCB-199	4.70e+06	0.89	y	47:41	0.76	254		-	-	*	
PCB-203	5.78e+06	0.92	y	47:58	0.85	281		-	-	*	Co-elute PCB 196
PCB-196	5.78e+06	0.92	y	47:58	0.85	281		-	-	*	Co-elute PCB 203
13C-PCB-202	4.83e+07	0.92	y	44:49	0.97	1580					79.7
13C-PCB-178	4.69e+07	1.09	y	42:20	0.83	1800					90.5
13C-PCB-138	6.26e+07	1.29	y	41:34	-	22.1					
PCB-195	2.24e+06	0.89	y	49:03	0.77	109		-	-	*	
PCB-194	5.10e+06	0.91	y	49:51	0.84	227		-	-	*	
PCB-205	3.63e+05	1.02	y	50:08	1.04	13.0		-	-	*	
13C-PCB-205	5.33e+07	0.91	y	50:06	1.31	1920					96.8
PCB-208	8.33e+05	1.32	y	49:11	1.00	28.8		-	-	*	
13C-PCB-208	5.73e+07	0.80	y	49:10	1.32	2040					103
PCB-207	3.84e+05	1.29	y	49:28	1.15	14.0		-	-	*	
PCB-206	2.14e+06	1.30	y	51:19	1.04	109		-	-	*	
13C-PCB-206	3.76e+07	0.79	y	51:19	0.97	1820					91.6
PCB-209	1.05e+06	1.19	y	52:30	1.11	45.0		-	-	*	
13C-PCB-209	4.18e+07	1.21	y	52:30	1.23	1600					80.4
13C-PCB-194	4.21e+07	0.90	y	49:51	-	16.8					

Analyst: _____ Date: 7/26/19

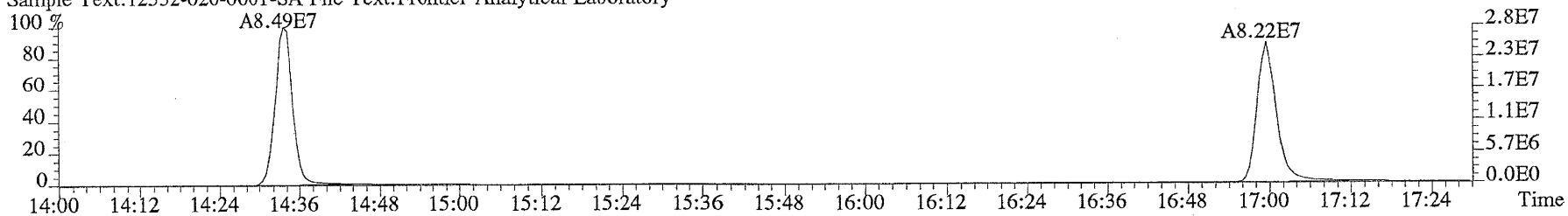
File:25JUL19Z #1-783 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



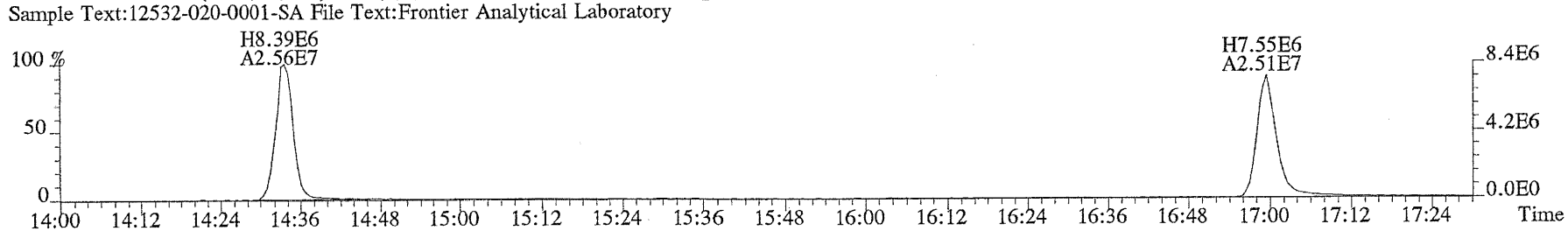
File:25JUL19Z #1-783 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



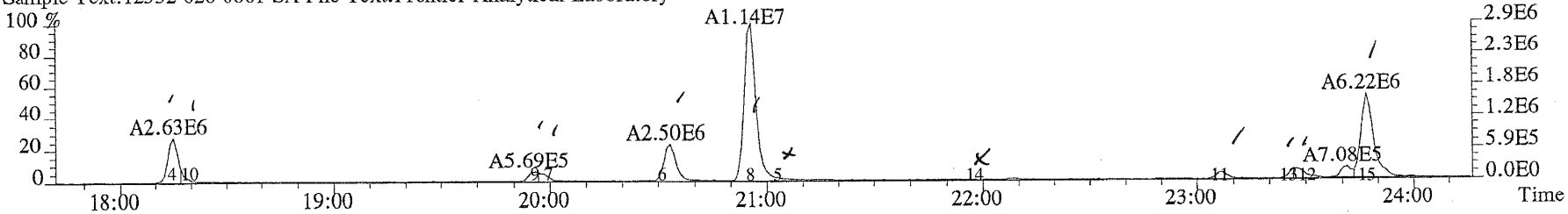
File:25JUL19Z #1-783 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



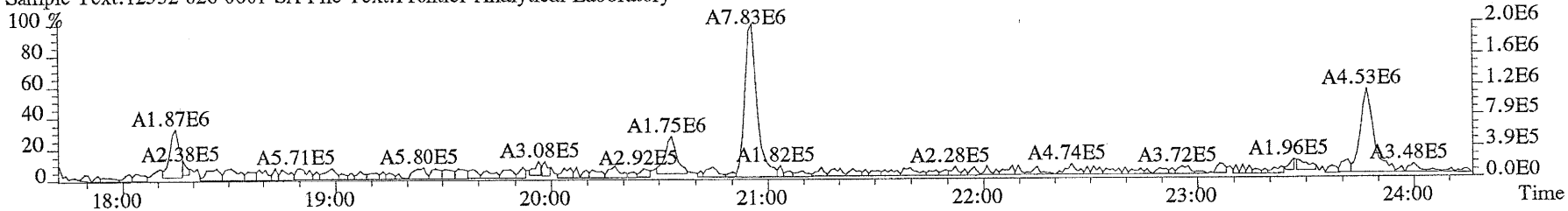
File:25JUL19Z #1-783 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



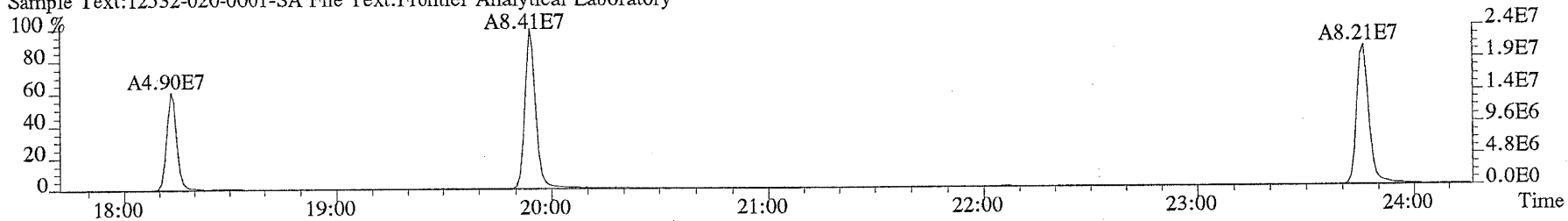
File:25JUL19Z #1-520 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



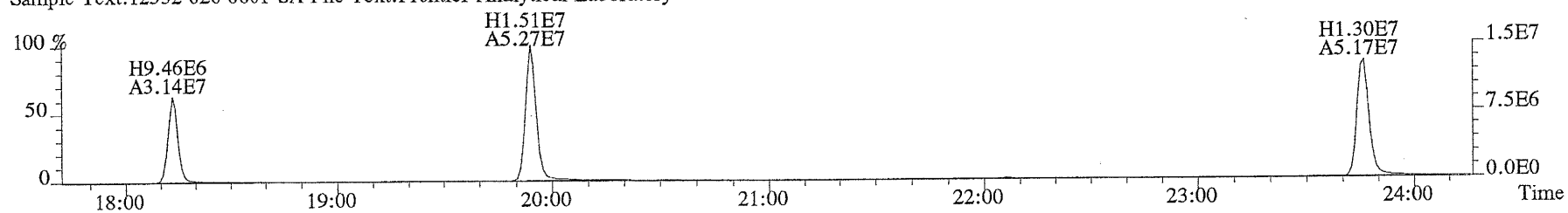
File:25JUL19Z #1-520 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



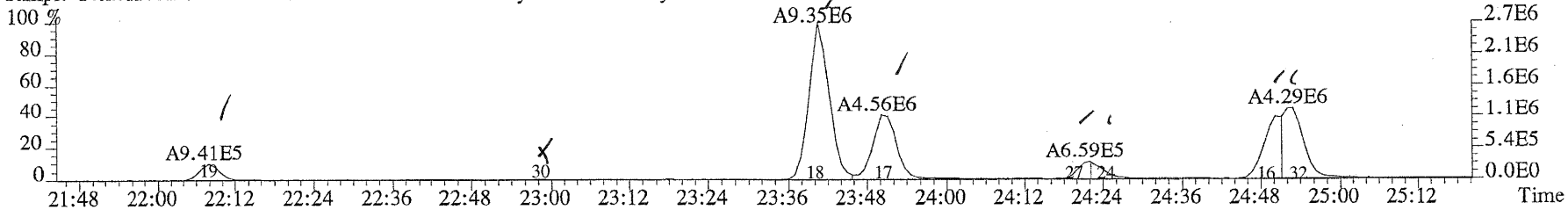
File:25JUL19Z #1-520 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



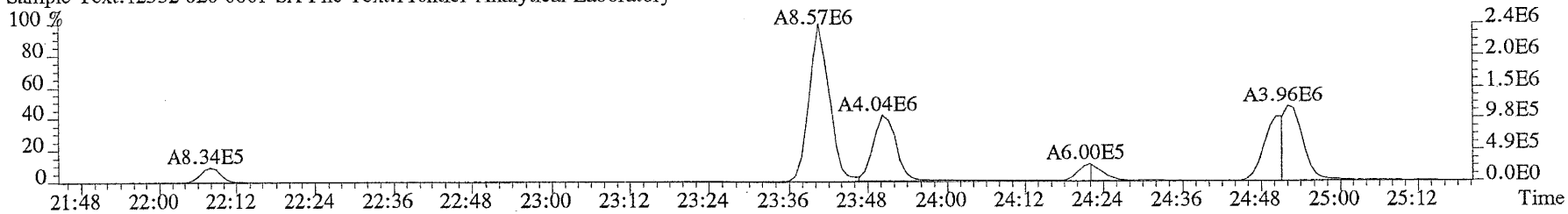
File:25JUL19Z #1-520 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



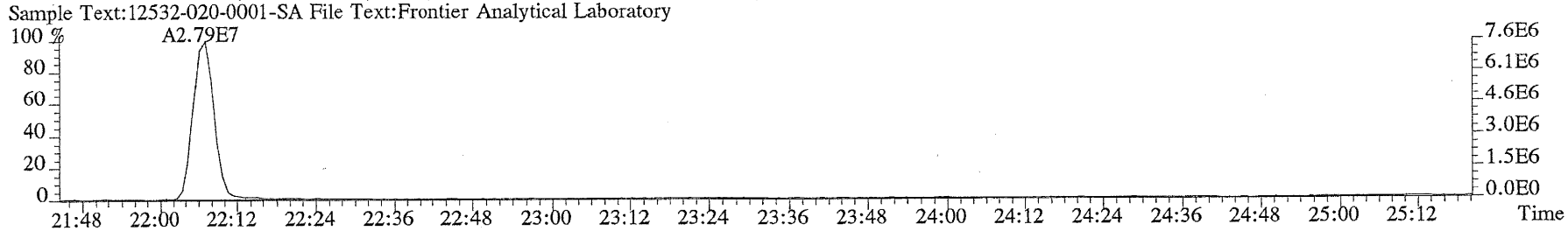
File:25JUL19Z #1-520 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



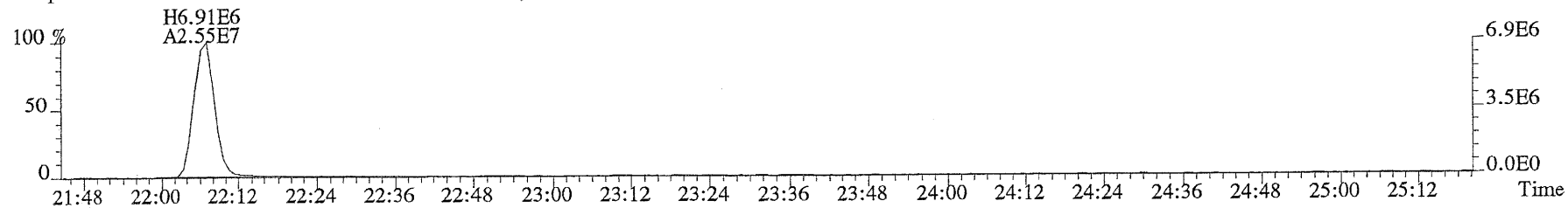
File:25JUL19Z #1-520 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



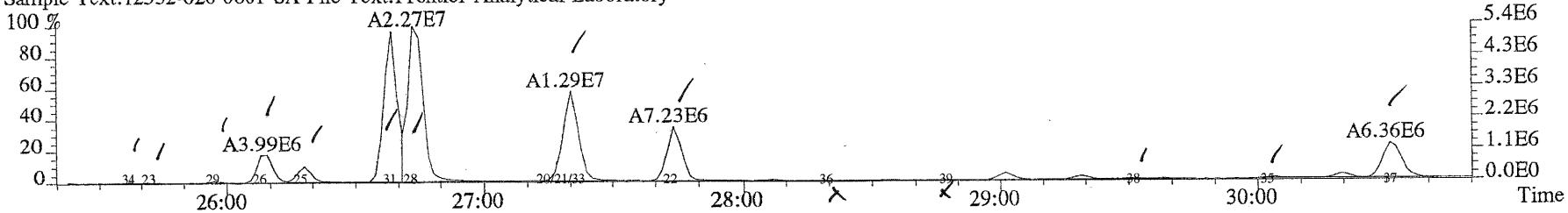
File:25JUL19Z #1-520 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



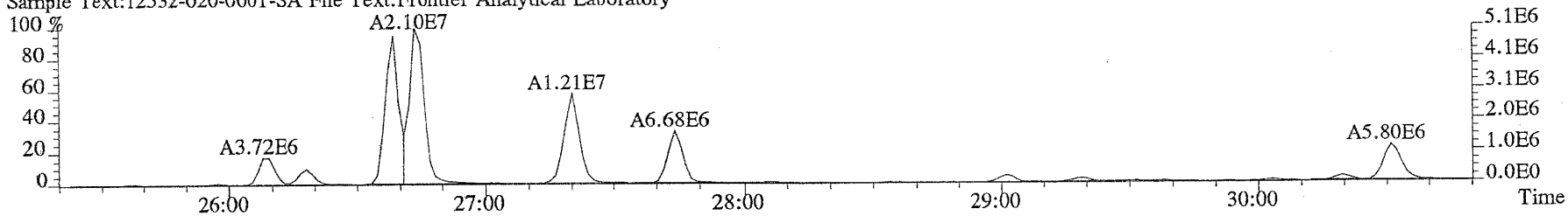
File:25JUL19Z #1-520 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



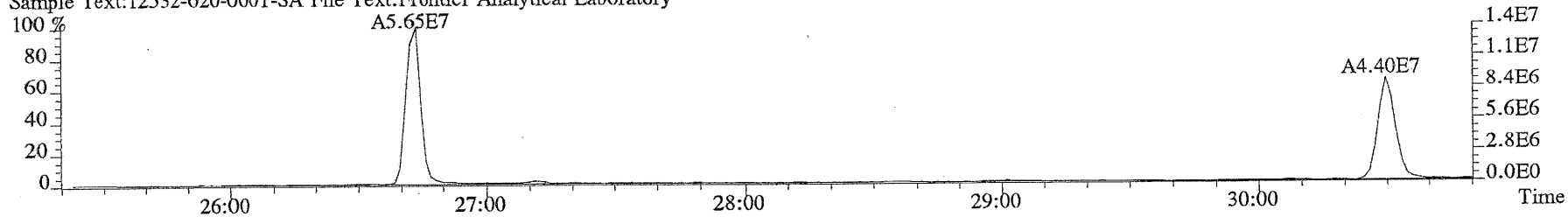
File:25JUL19Z #1-401 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



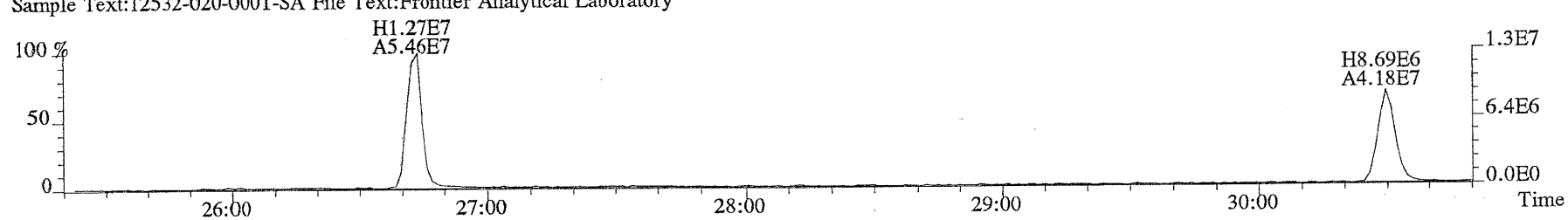
File:25JUL19Z #1-401 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



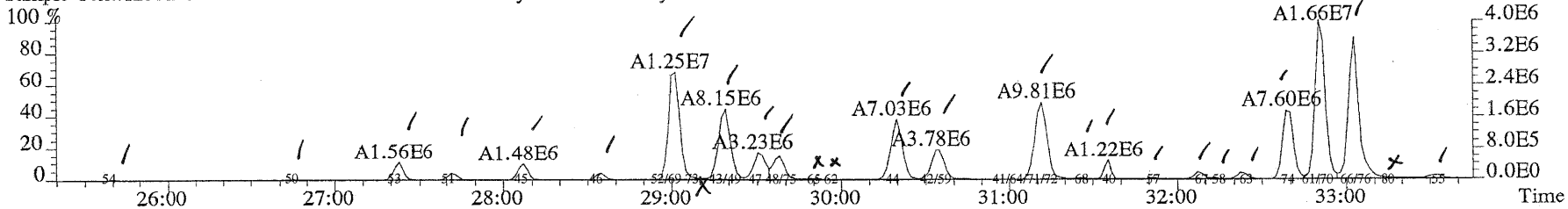
File:25JUL19Z #1-401 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



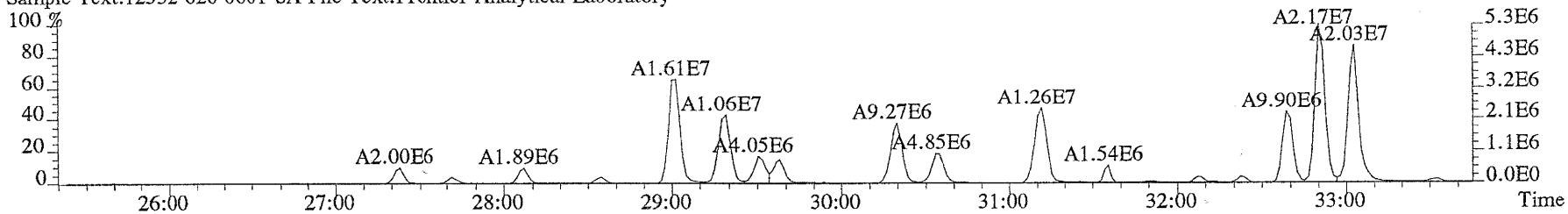
File:25JUL19Z #1-401 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



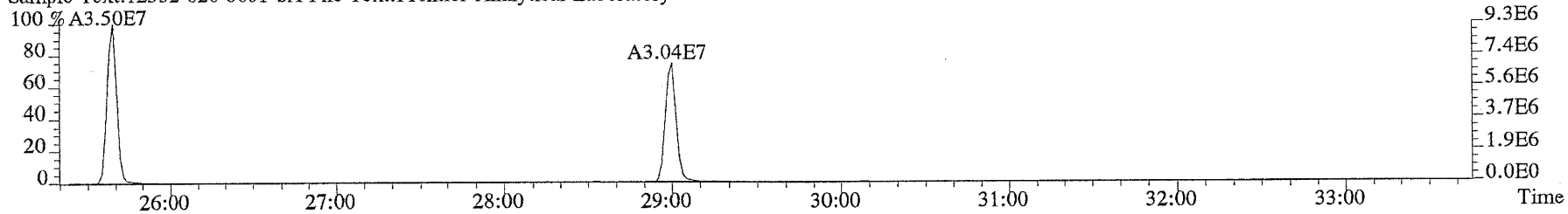
File:25JUL19Z #1-401 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



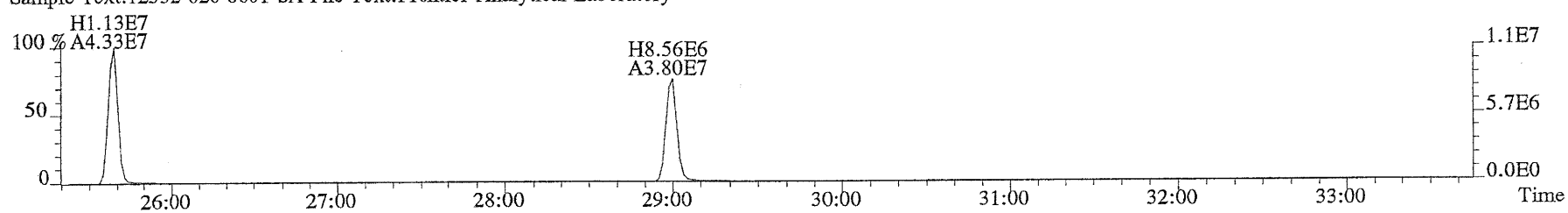
File:25JUL19Z #1-401 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



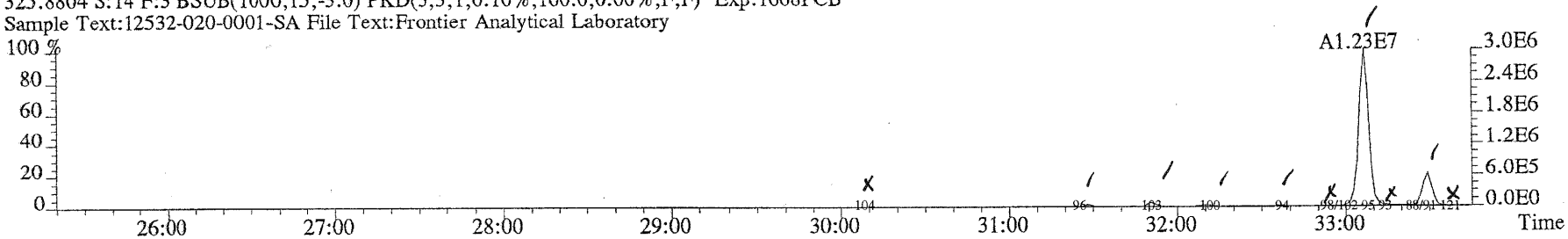
File:25JUL19Z #1-401 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



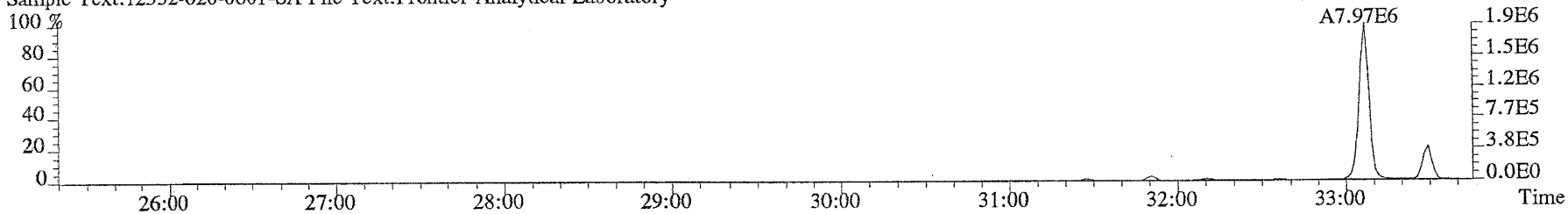
File:25JUL19Z #1-401 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



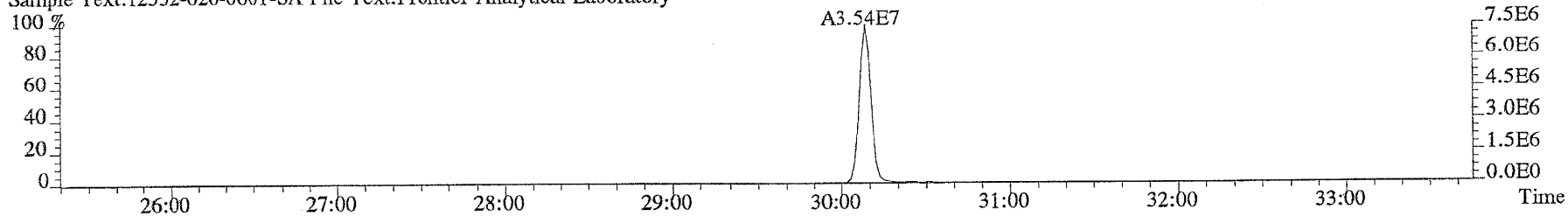
File:25JUL19Z #1-401 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



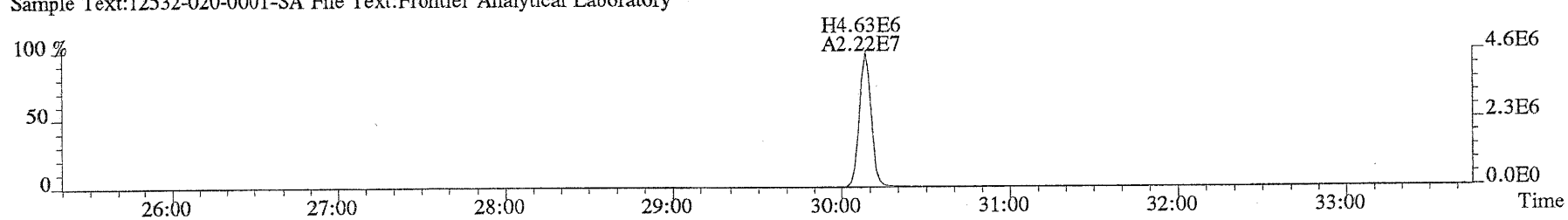
File:25JUL19Z #1-401 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



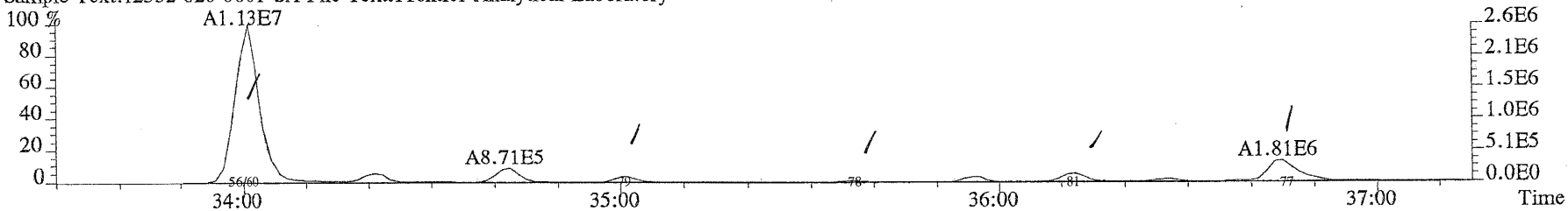
File:25JUL19Z #1-401 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



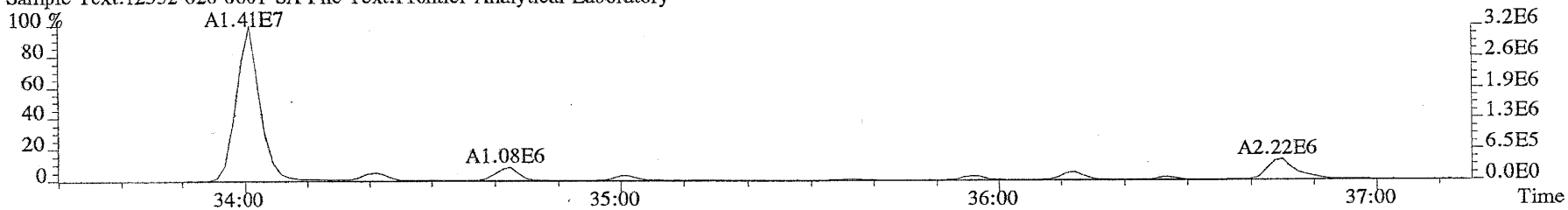
File:25JUL19Z #1-401 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



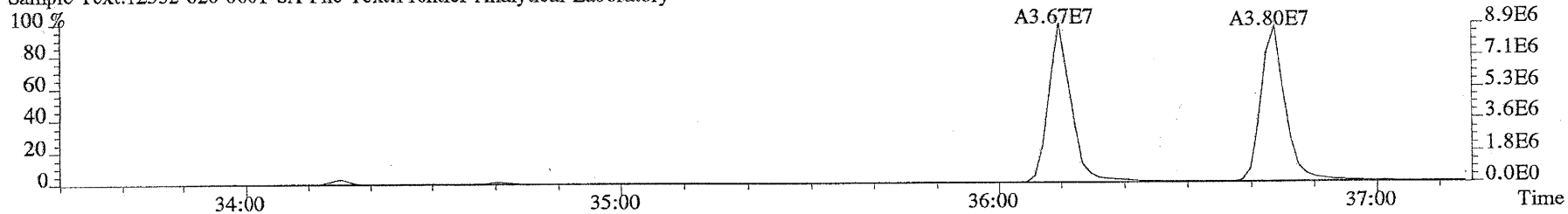
File:25JUL19Z #1-181 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



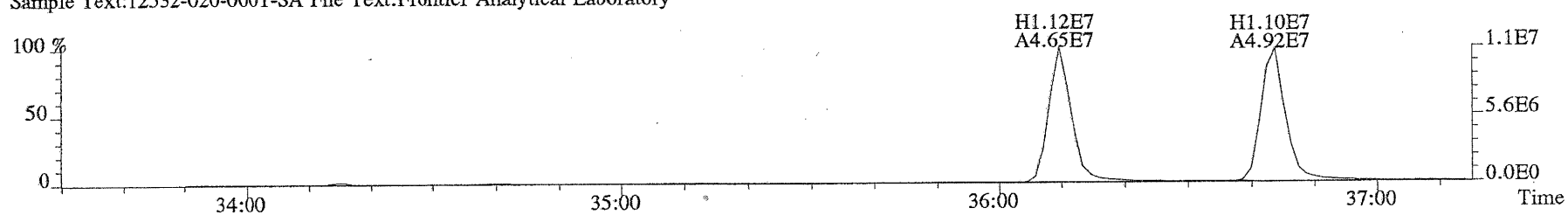
File:25JUL19Z #1-181 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



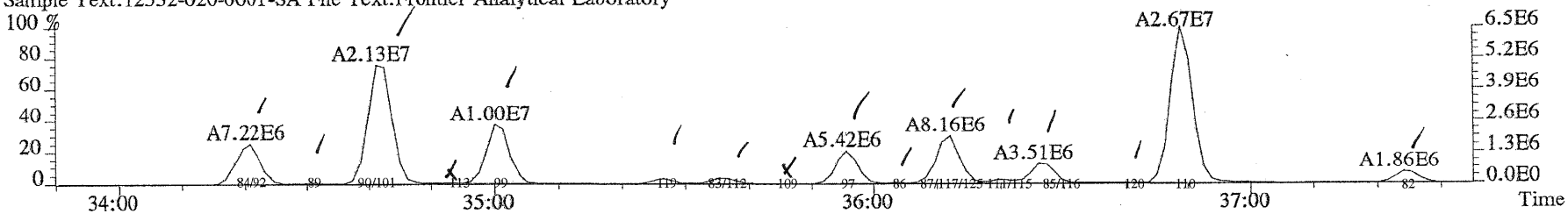
File:25JUL19Z #1-181 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



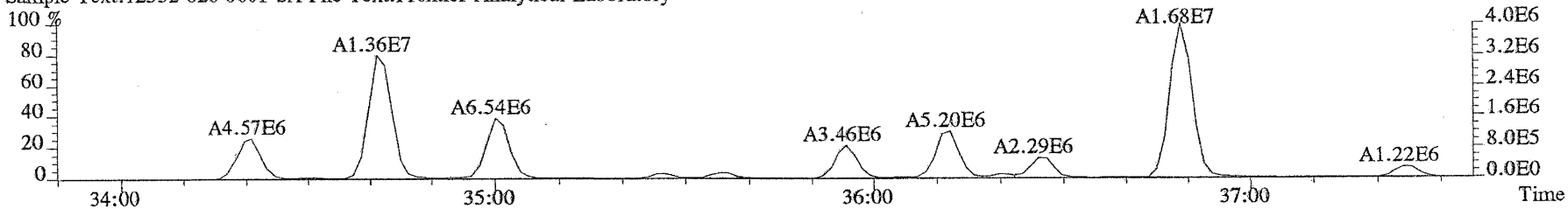
File:25JUL19Z #1-181 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



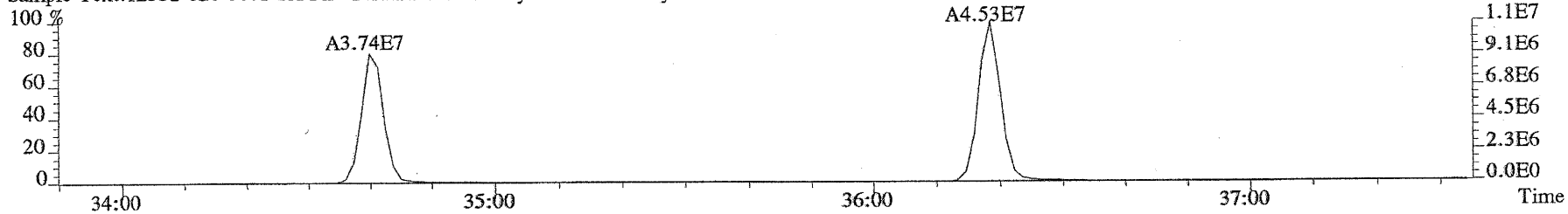
File:25JUL19Z #1-181 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



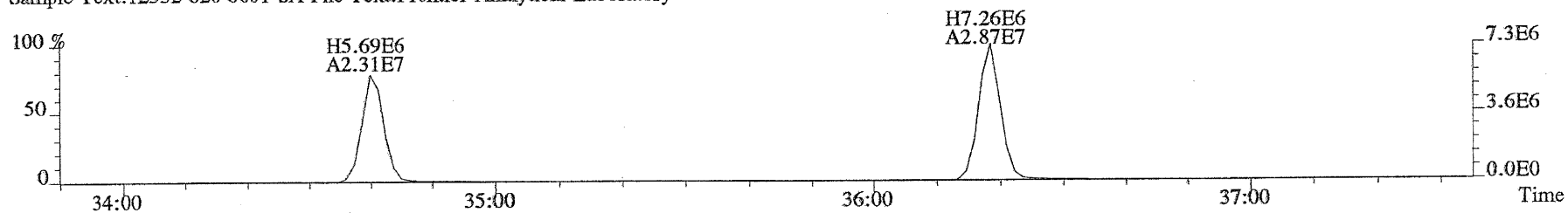
File:25JUL19Z #1-181 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



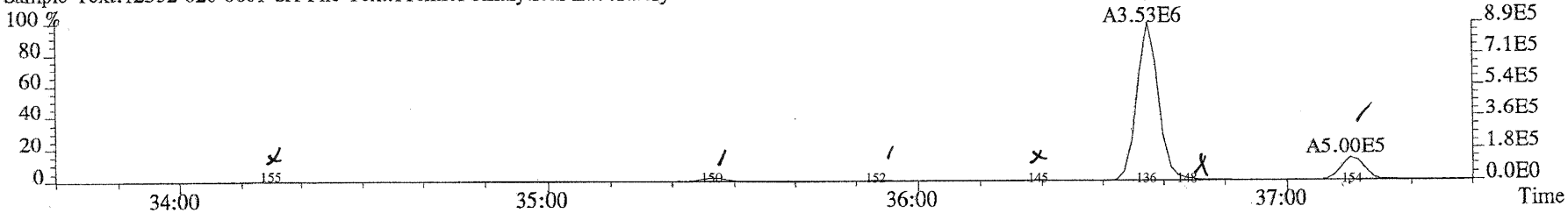
File:25JUL19Z #1-181 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



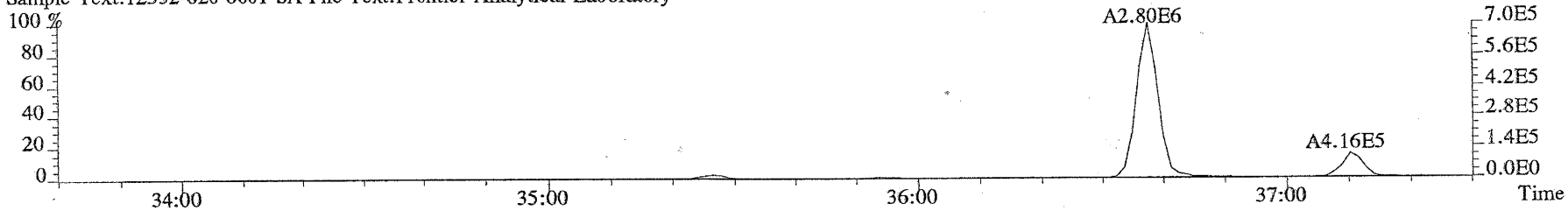
File:25JUL19Z #1-181 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



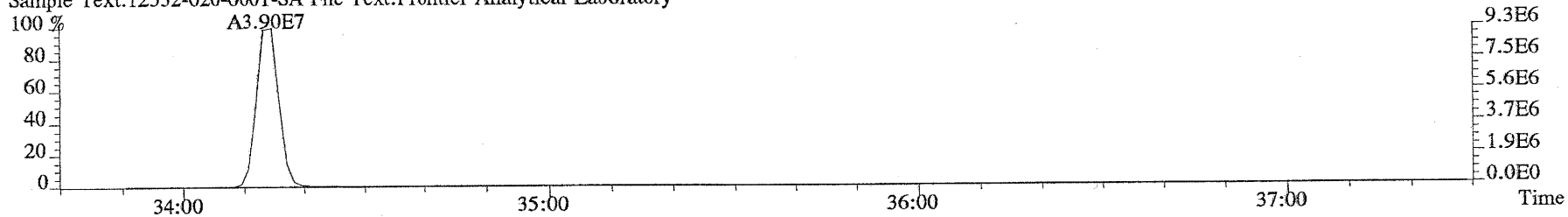
File:25JUL19Z #1-181 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



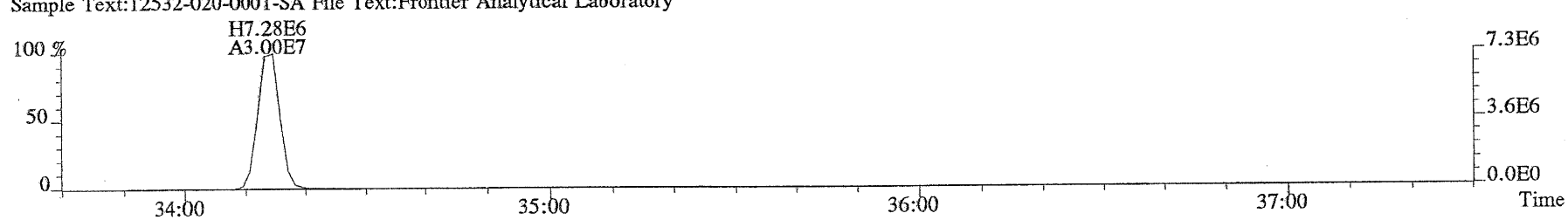
File:25JUL19Z #1-181 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



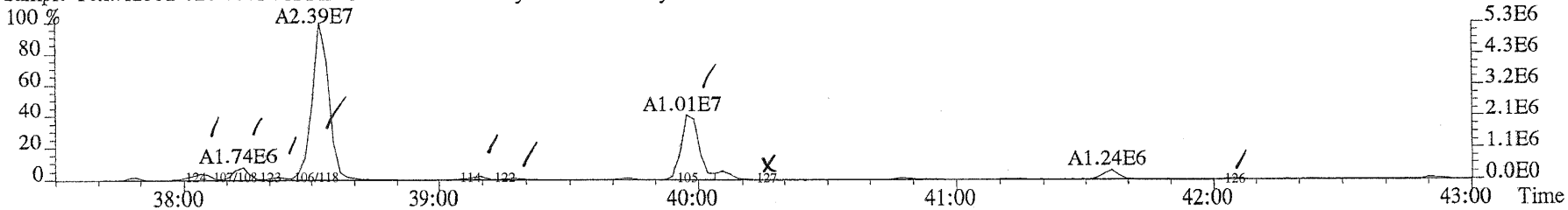
File:25JUL19Z #1-181 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-181 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



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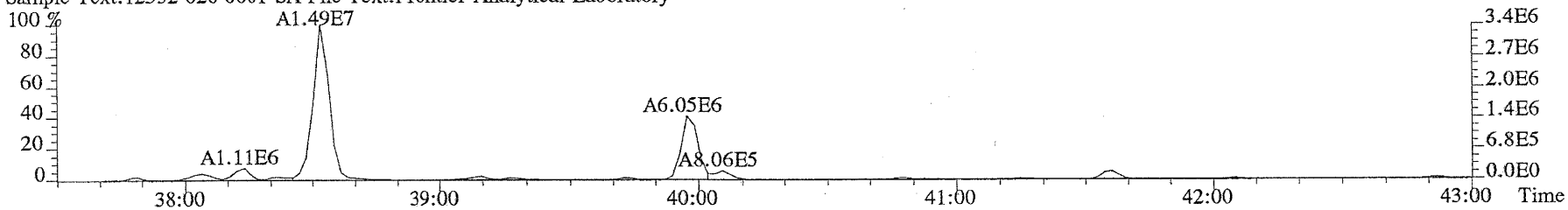
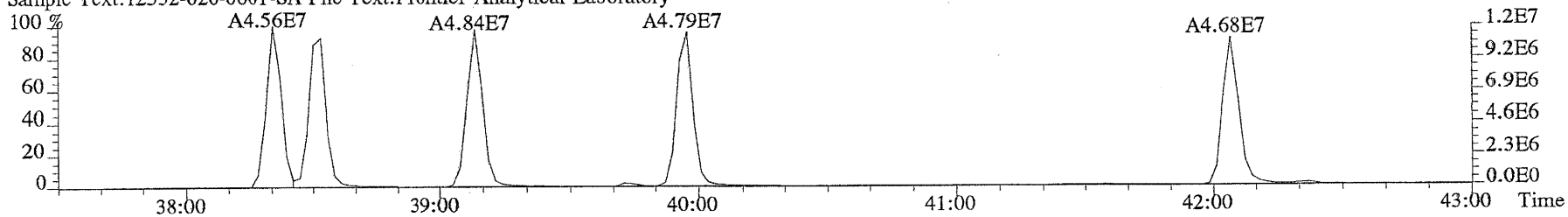
327.8775 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



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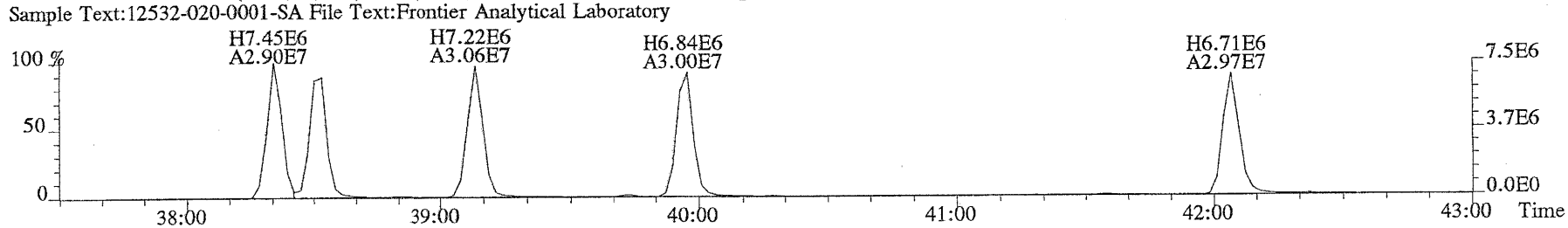
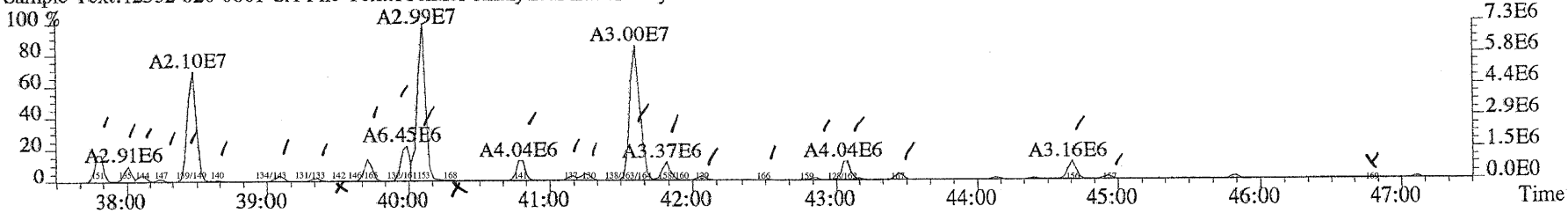
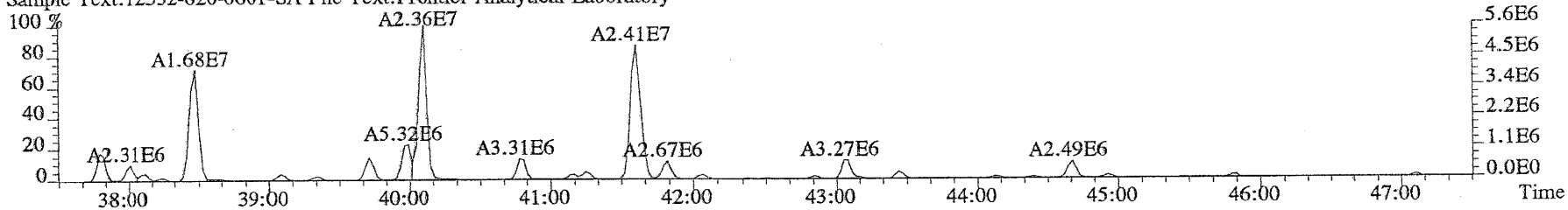
339.9178 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



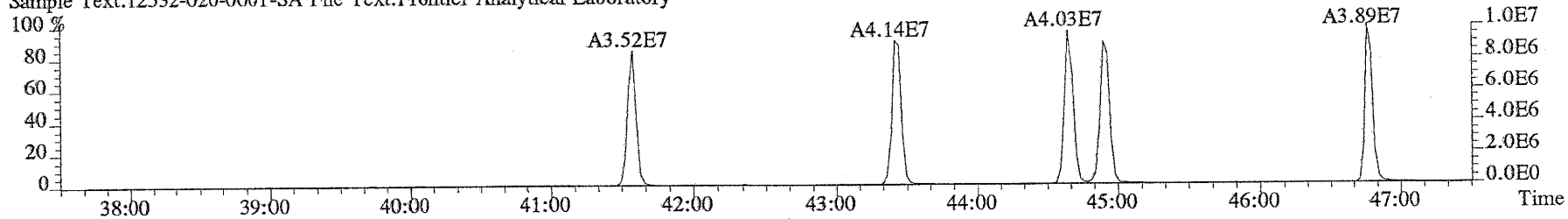
File:25JUL19Z #1-405 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



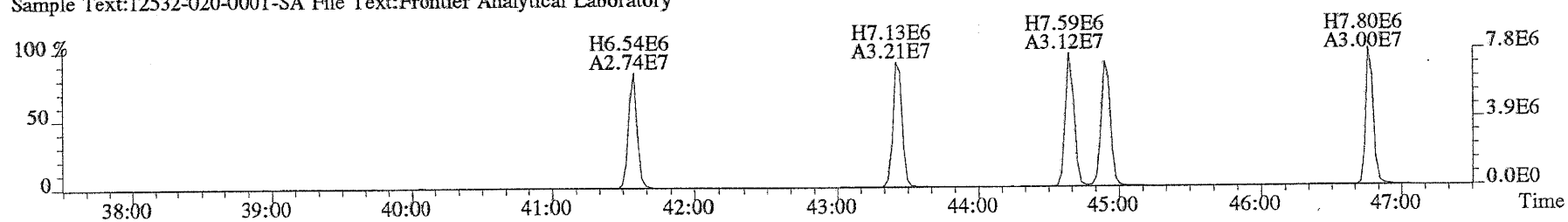
File:25JUL19Z #1-405 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



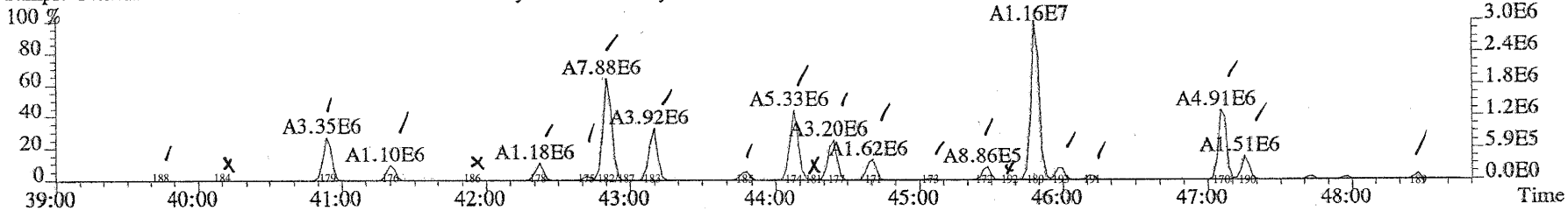
File:25JUL19Z #1-405 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



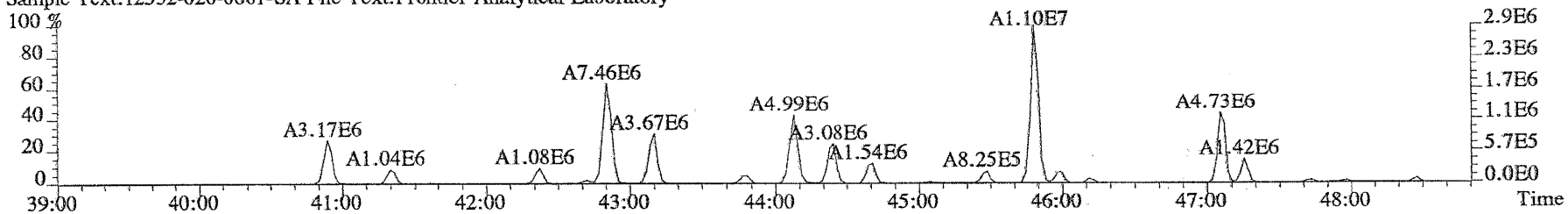
File:25JUL19Z #1-405 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-405 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



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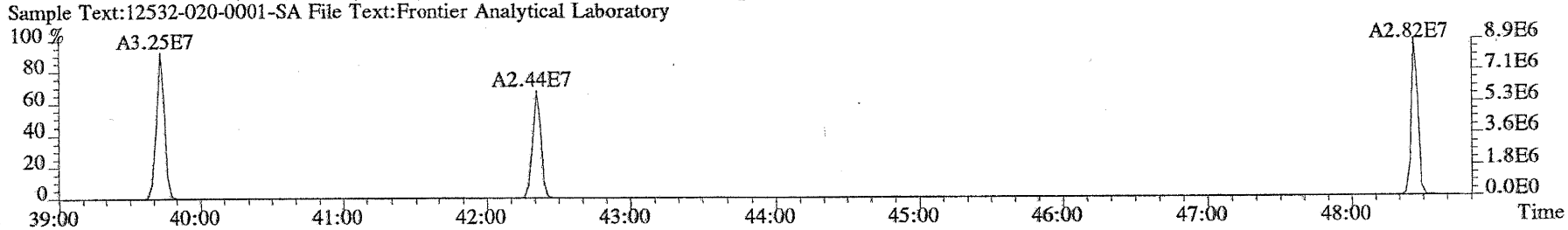
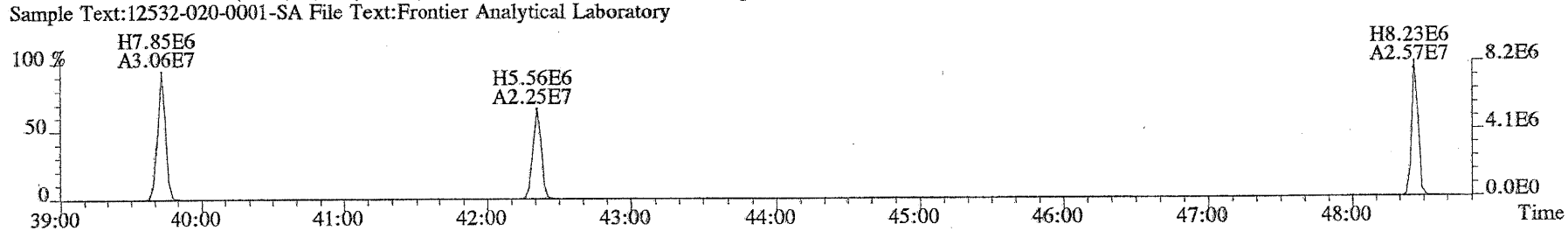
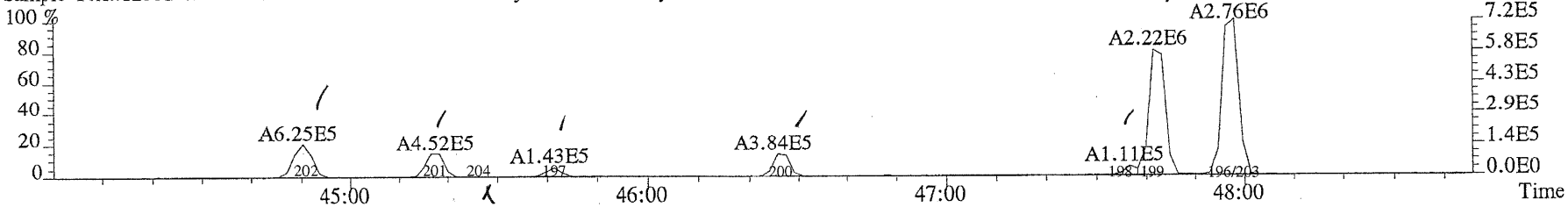
405.8428 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



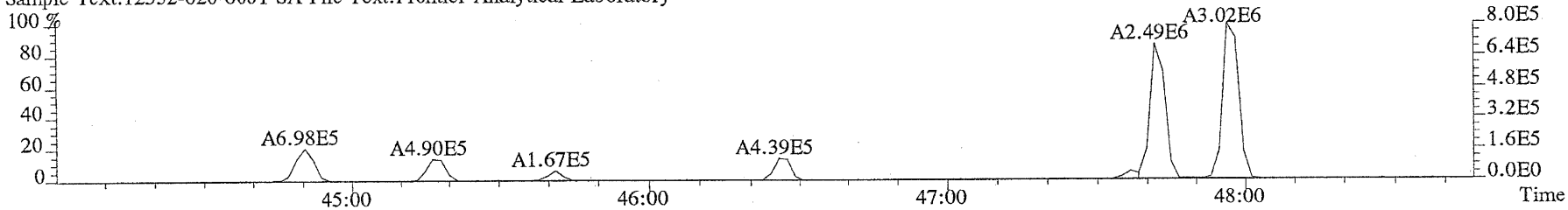
File:25JUL19Z #1-405 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



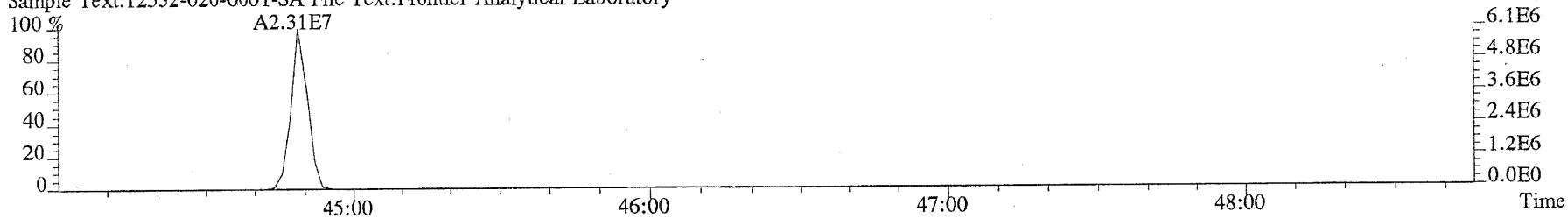
File:25JUL19Z #1-405 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



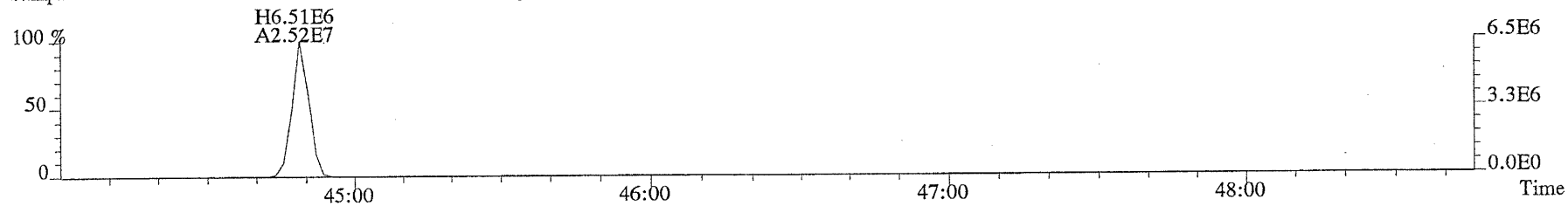
File:25JUL19Z #1-405 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



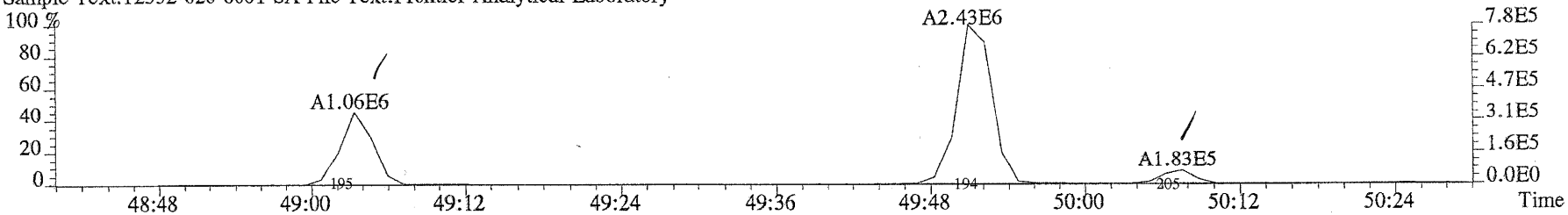
File:25JUL19Z #1-405 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



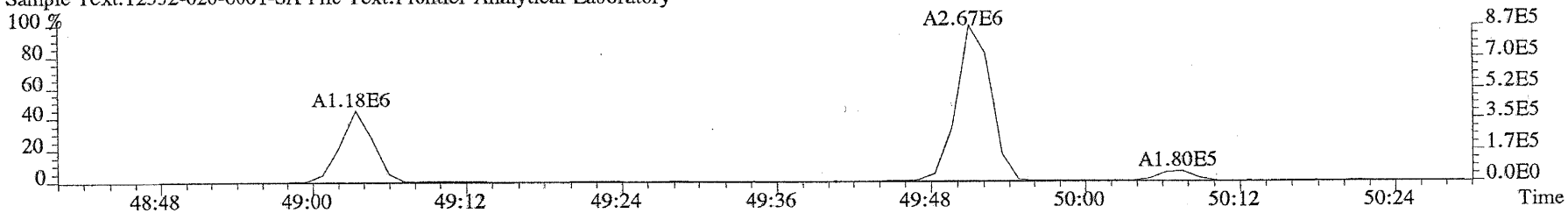
File:25JUL19Z #1-405 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



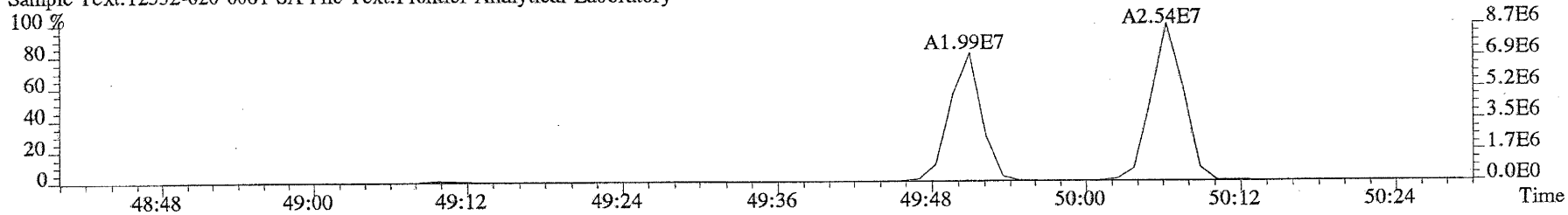
File:25JUL19Z #1-315 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



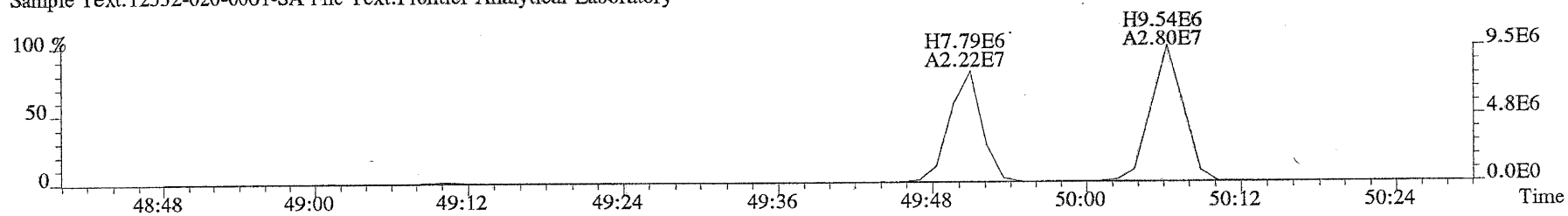
File:25JUL19Z #1-315 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



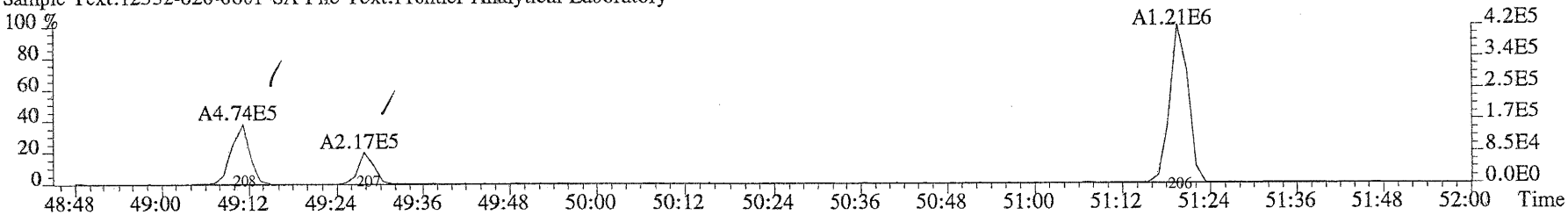
File:25JUL19Z #1-315 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



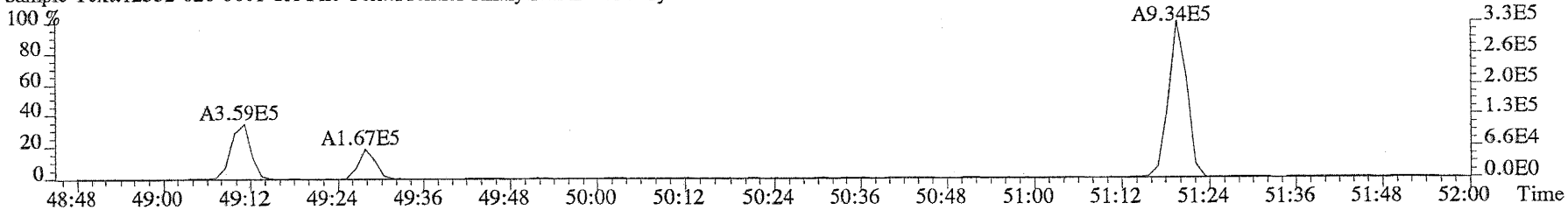
File:25JUL19Z #1-315 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



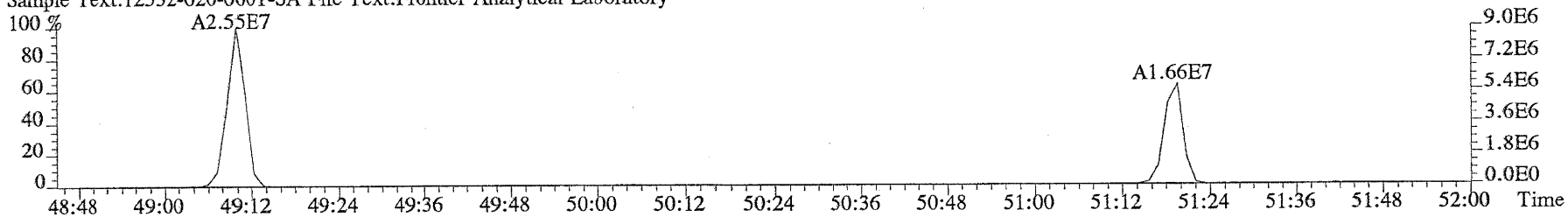
File:25JUL19Z #1-315 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



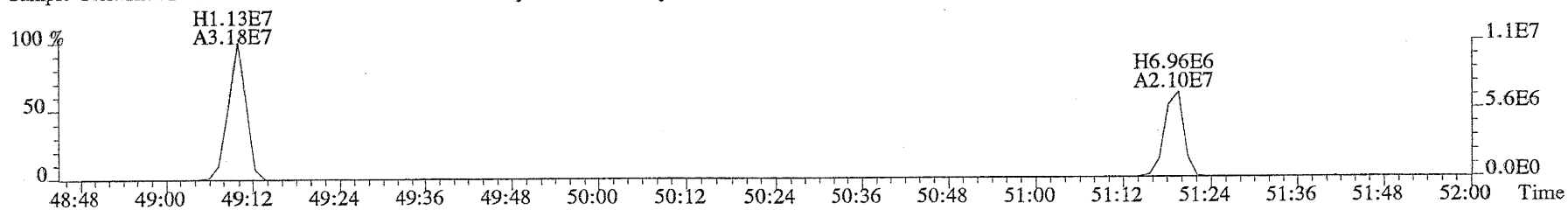
File:25JUL19Z #1-315 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



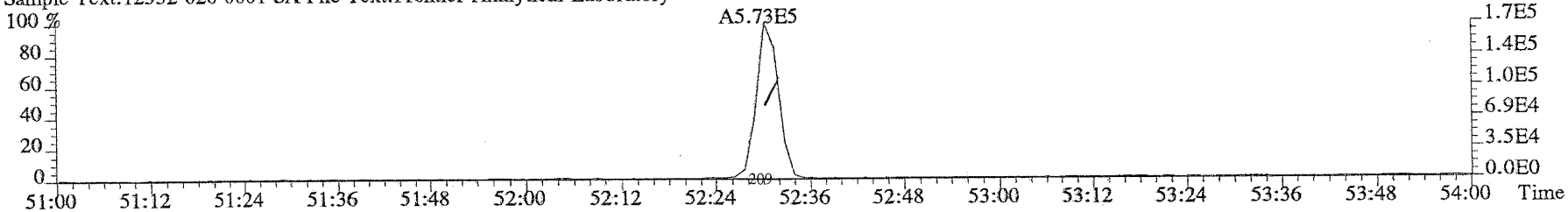
File:25JUL19Z #1-315 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



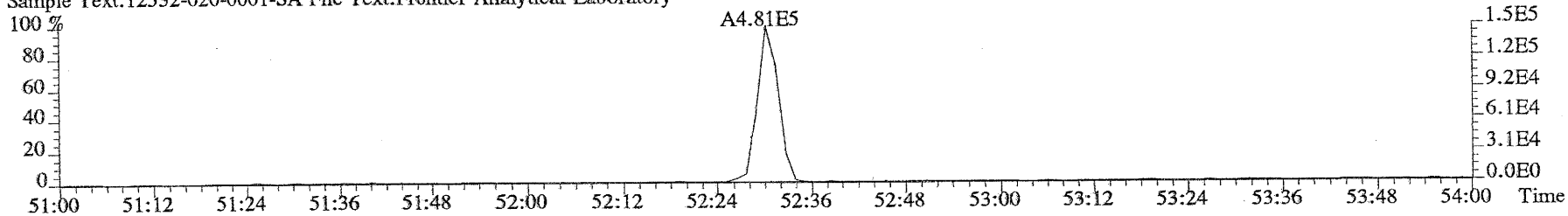
File:25JUL19Z #1-315 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



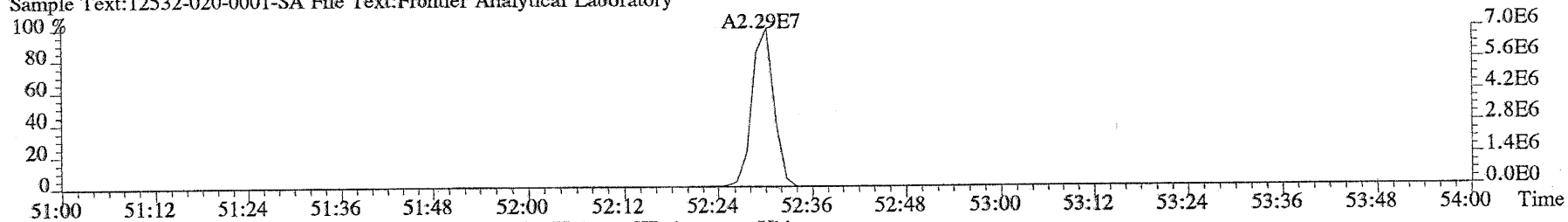
File:25JUL19Z #1-315 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



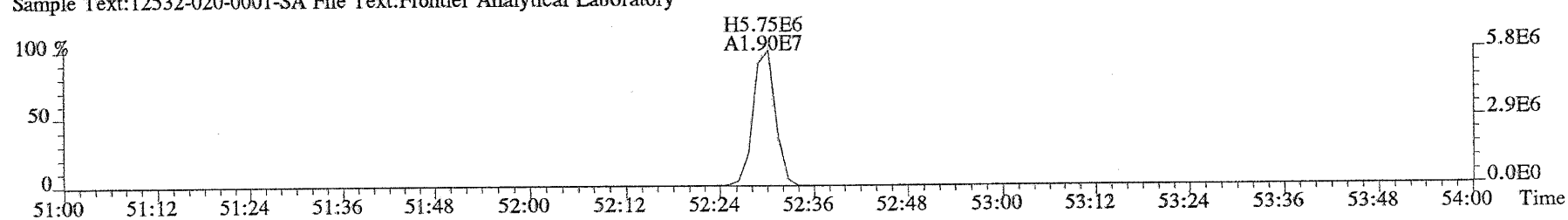
File:25JUL19Z #1-315 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 23:51:06 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12532-020-0001-SA File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

Data Filename: 03APR19Z

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

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

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

Analyst: _____ Date: 4/3/19

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

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

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

Analyst: _____ Date: 4/3/19

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

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

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

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

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

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

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

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

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

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

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

Analyst: _____ Date: 4/3/19

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

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

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

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

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

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

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

Analyst: _____ Date: 4/3/19

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

FAL ID:1668 CS077 R170821A

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

FAL ID:1668 CS077 R170821A

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

Analyst: _____ Date: 4/3/19

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

FAL ID:1668 CS177 R170213A

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

FAL ID:1668 CS177 R170213A

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

Analyst: Date: 4/3/19

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

FAL ID:1668 CS277 R170213B

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

FAL ID:1668 CS277 R170213B

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

Analyst: Date: 4/3/19

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

FAL ID:1668 CS377 R181204D

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

FAL ID:1668 CS377 R181204D

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

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

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

FAL ID:1668 CS477 R181022B

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

FAL ID:1668 CS477 R181022B

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

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

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

FAL ID:1668 CS577 R130426C

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

FAL ID:1668 CS577 R130426C

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

Analyst: Date: 4/3/19

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

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

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

Analyst: _____ Date: 4/3/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

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

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

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

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

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

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

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

Analyst: _____ Date: 4/3/19

Frontier Analytical Laboratory - Acquisition Log

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

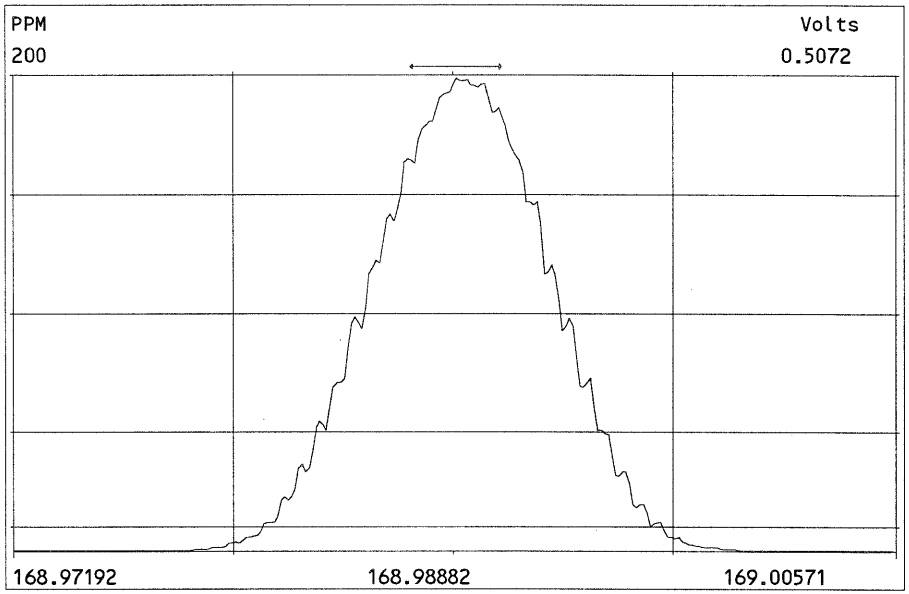
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
03APR19Z	1	ST040319Z0	1668 CS077 R170821A	3-APR-19 07:41:54	NA	NA	BS
03APR19Z	2	ST040319Z1	1668 CS177 R170213A	3-APR-19 08:40:14	NA	NA	BS
03APR19Z	3	ST040319Z2	1668 CS277 R170213B	3-APR-19 09:38:36	NA	NA	BS
03APR19Z	4	ST040319Z3	1668 CS377 R181204D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

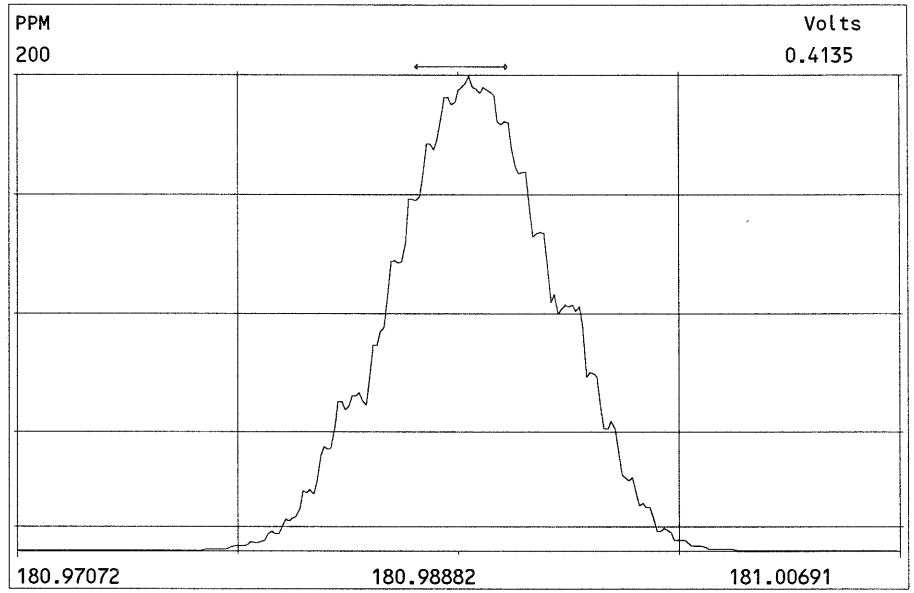
4/4/19

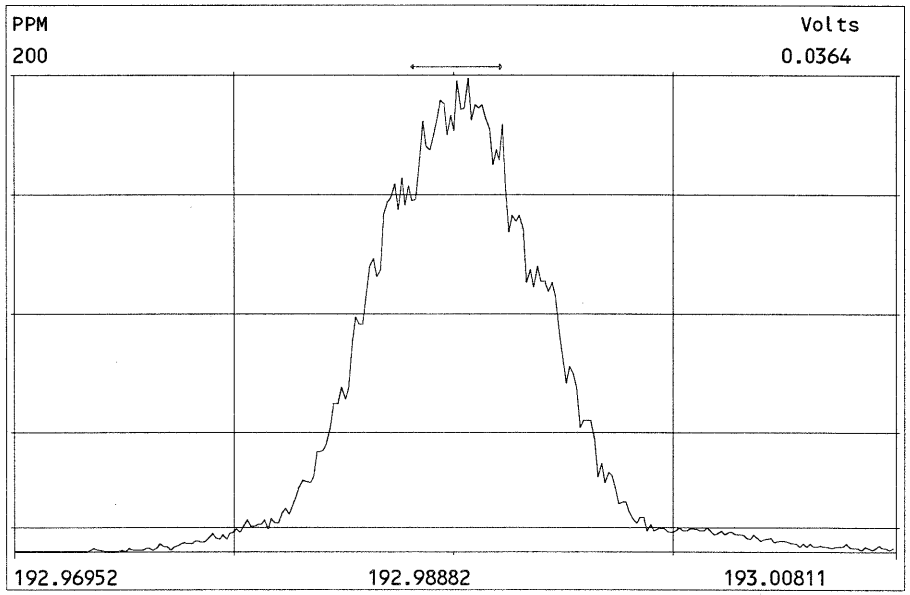
Data Backed Up:_____

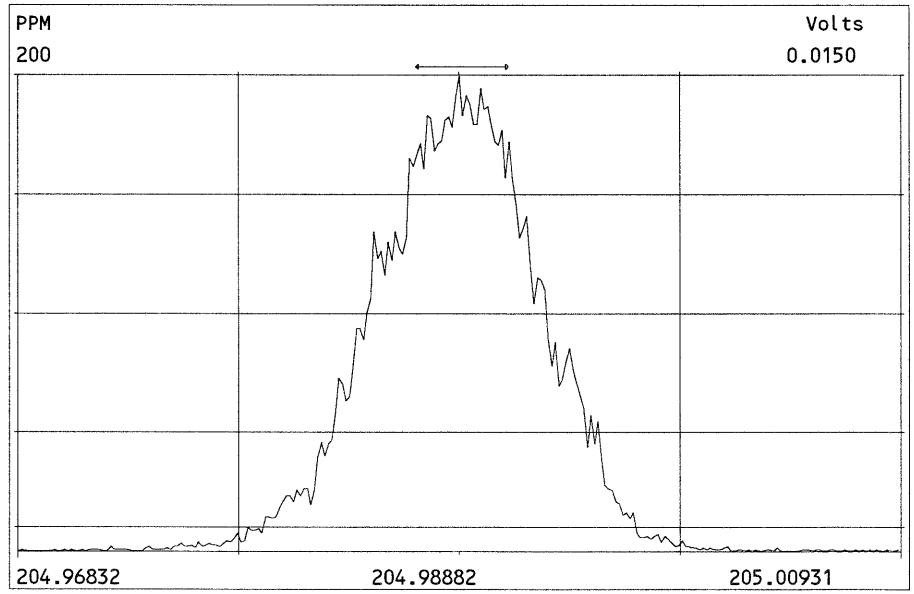
Date:_____

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

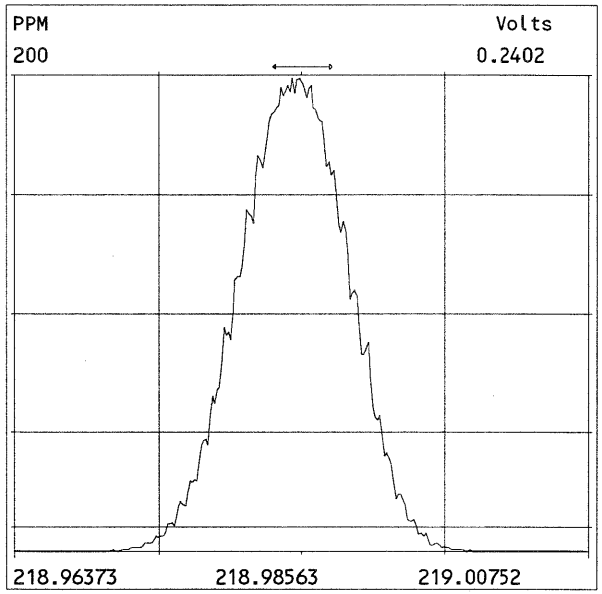


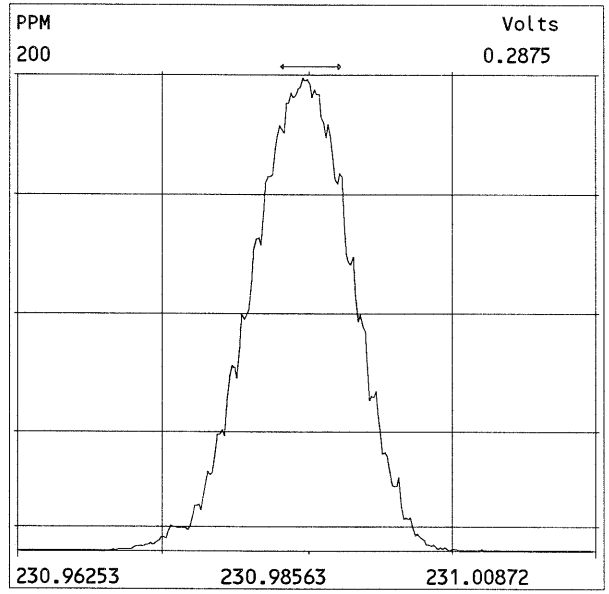


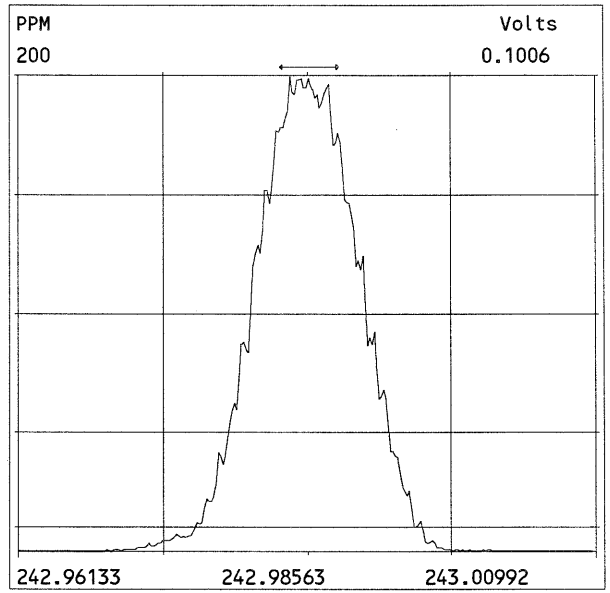


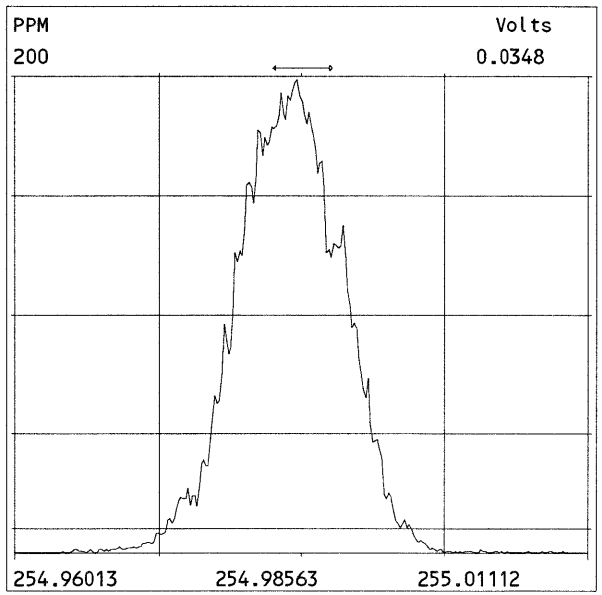


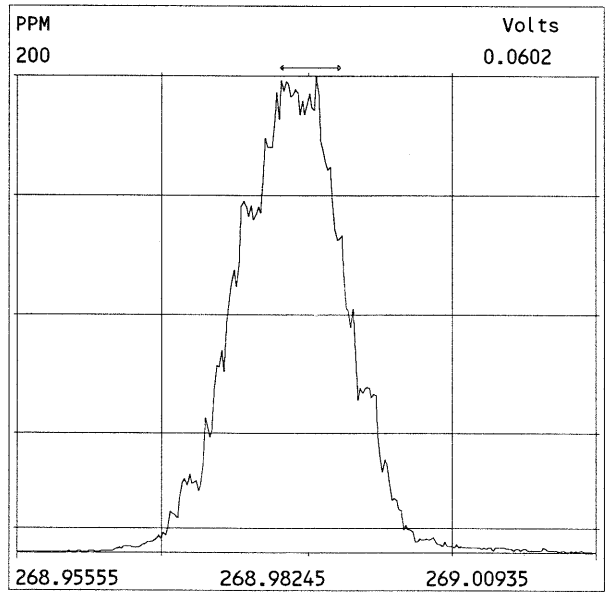
Peak Locate Examination: 3-APR-2019:07:39 File:03APR19Z
Experiment:1668PCB Function:2 Reference:PFK77

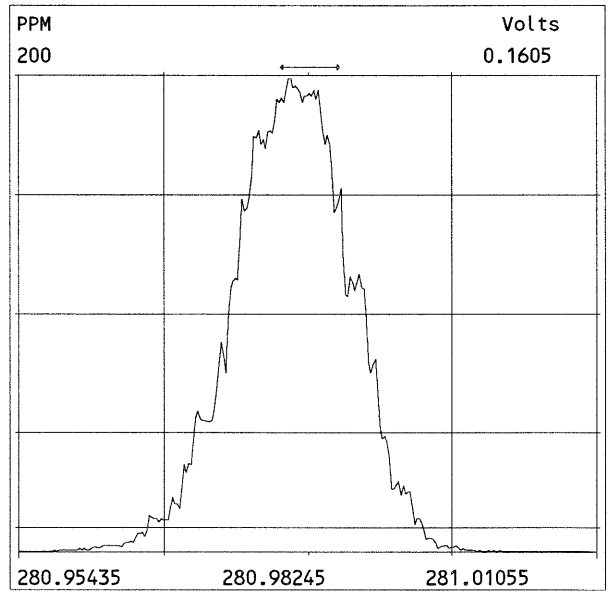




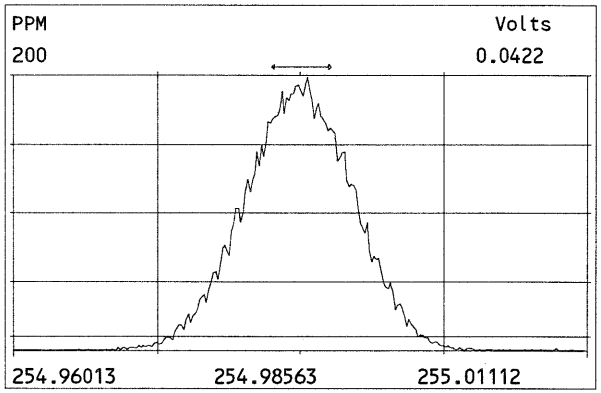


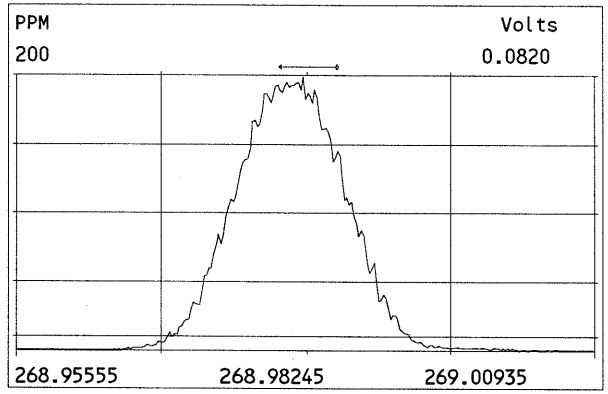


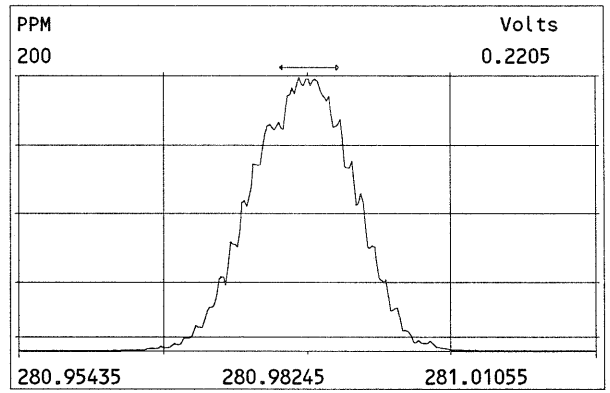


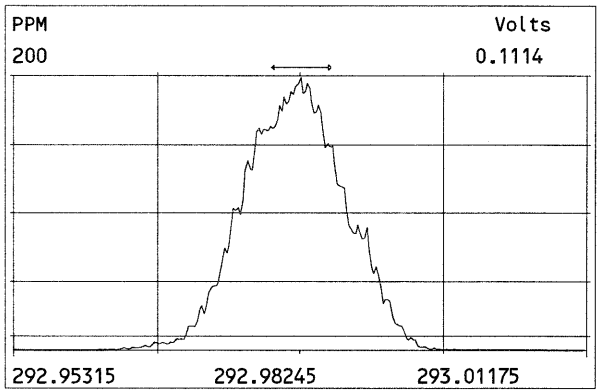


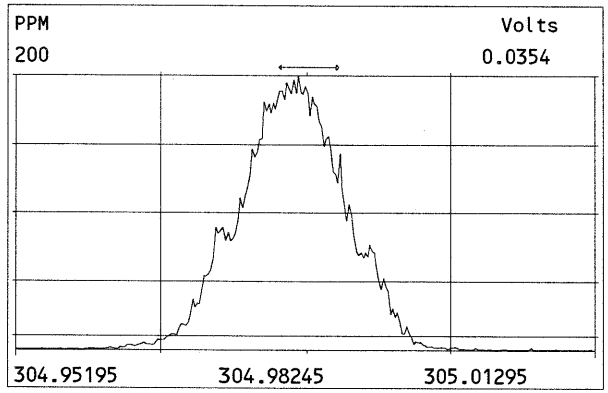
Peak Locate Examination: 3-APR-2019:07:39 File:03APR19Z
Experiment:1668PCB Function:3 Reference:PFK77

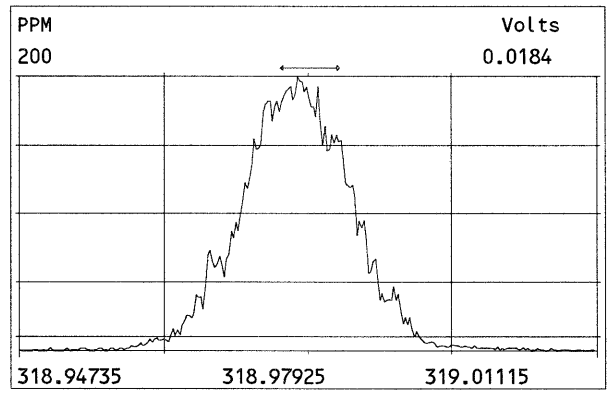


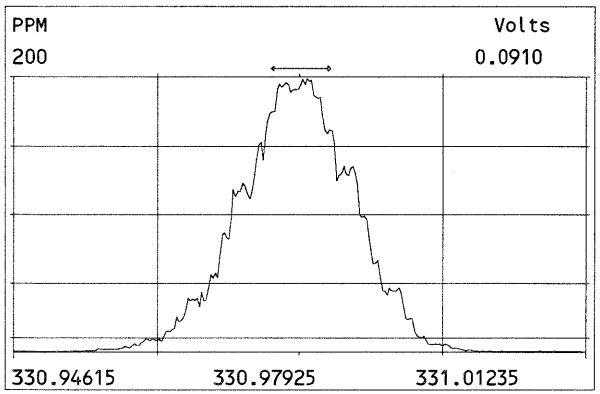


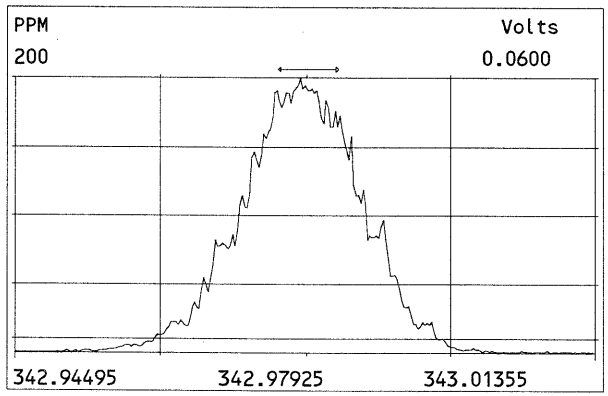




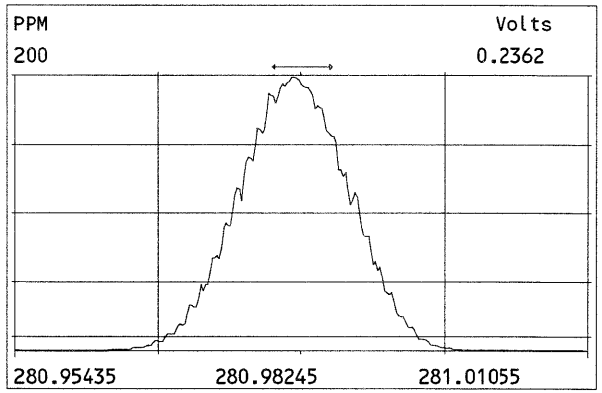


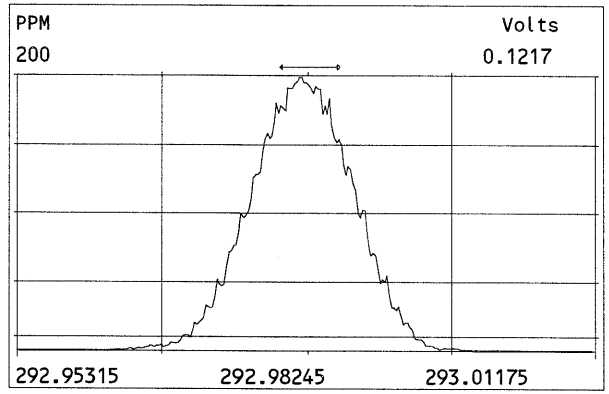


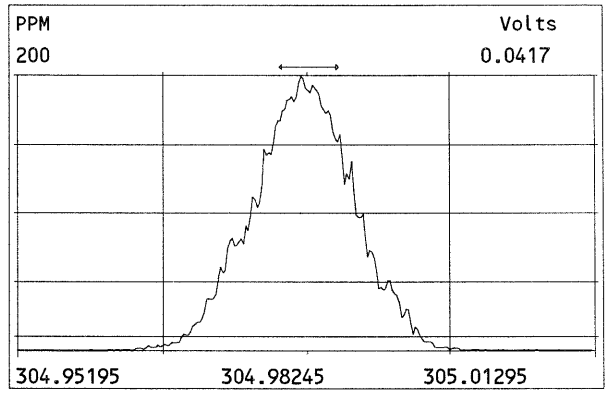


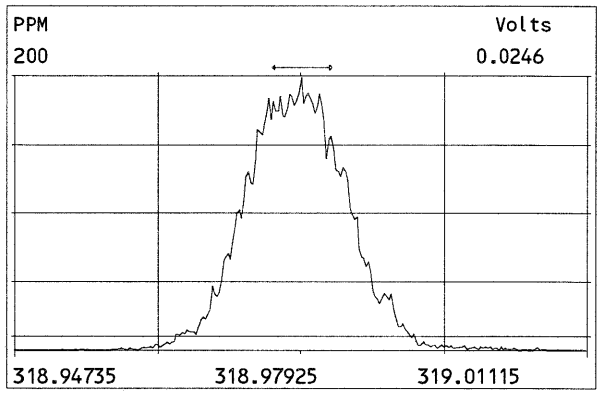


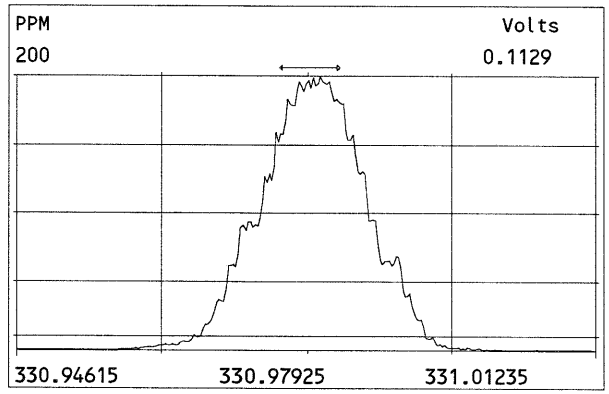
Peak Locate Examination: 3-APR-2019:07:40 File:03APR19Z
Experiment:1668PCB Function:4 Reference:PFK77

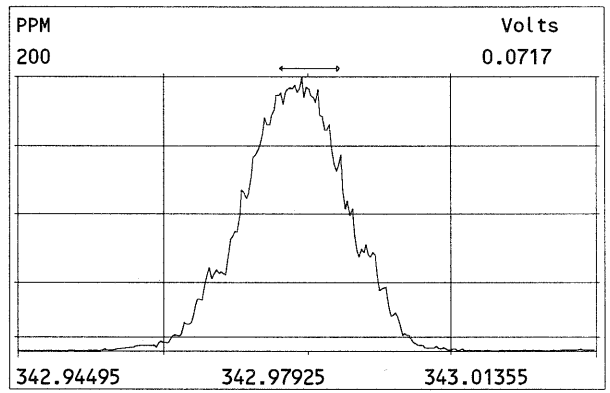


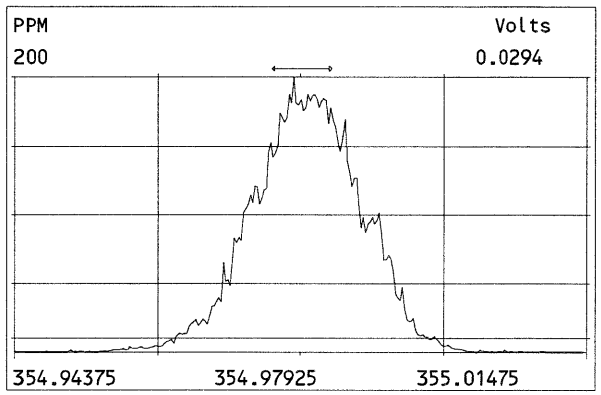


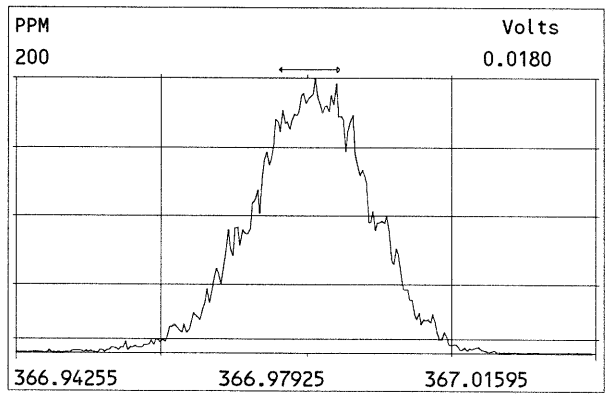


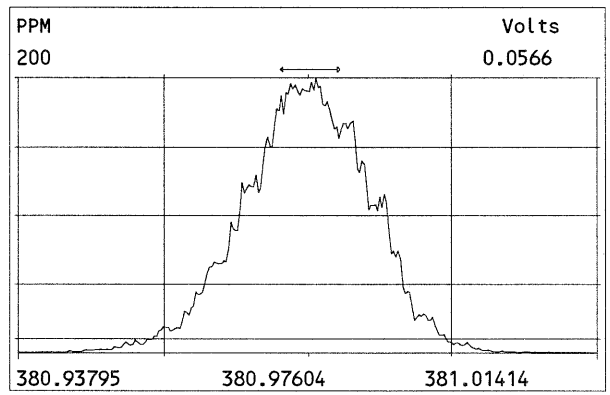




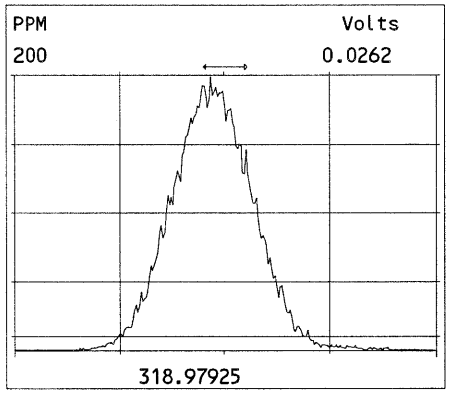


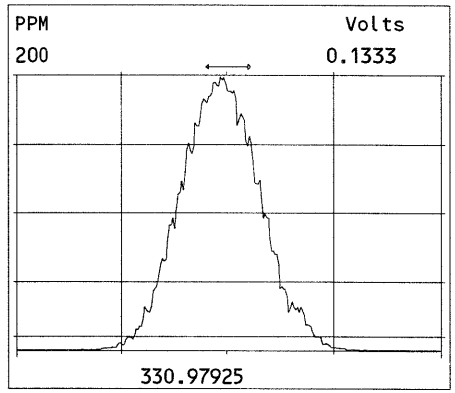


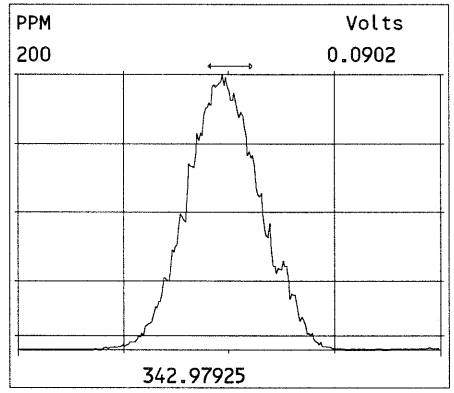


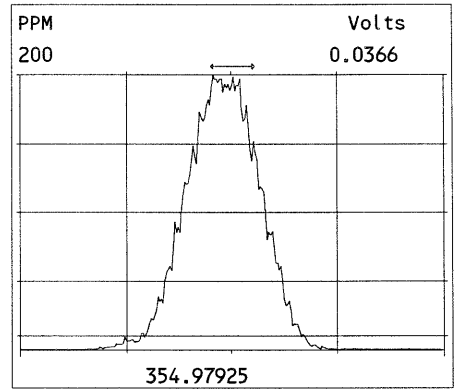


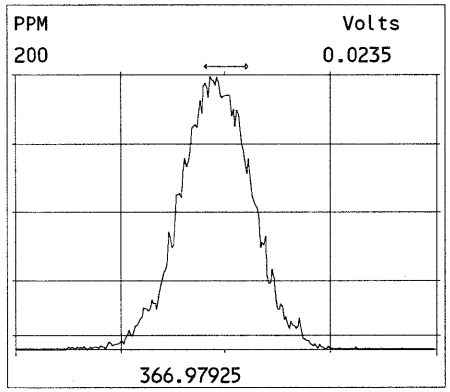
Peak Locate Examination: 3-APR-2019:07:40 File:03APR19Z
Experiment:1668PCB Function:5 Reference:PFK77

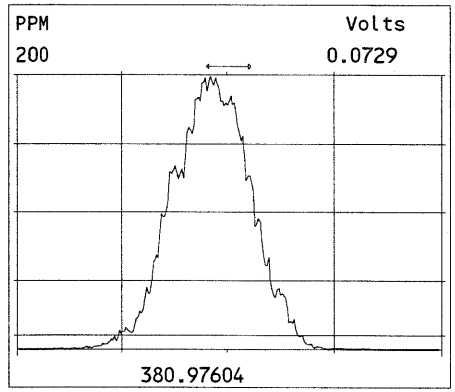


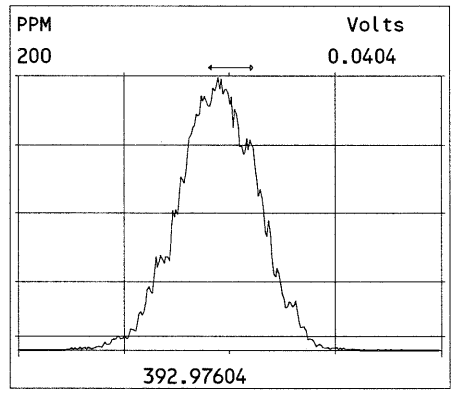


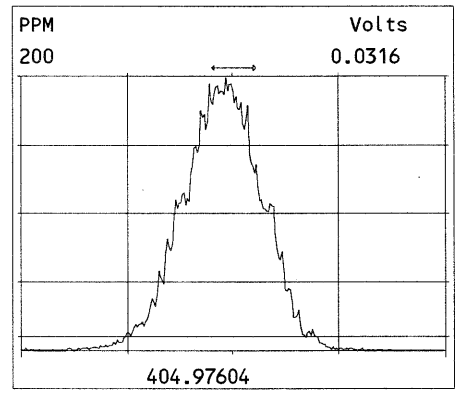


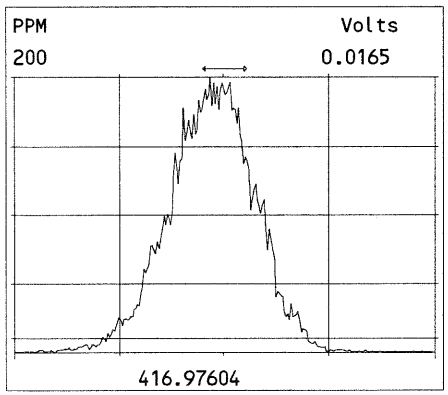


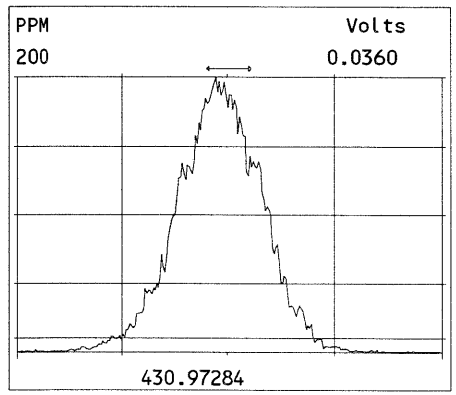


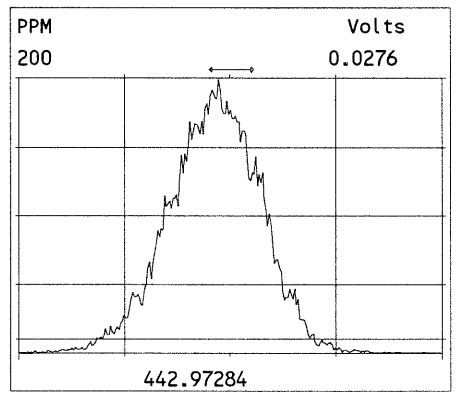




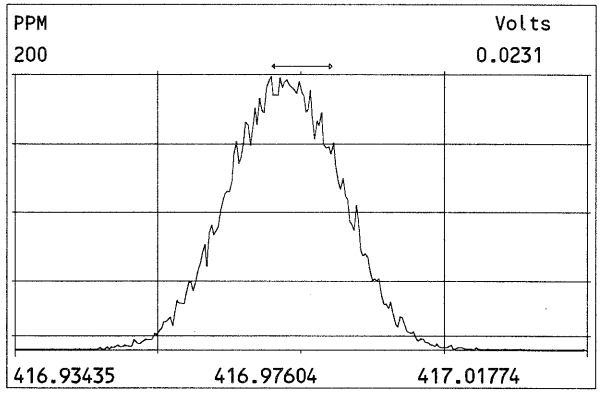


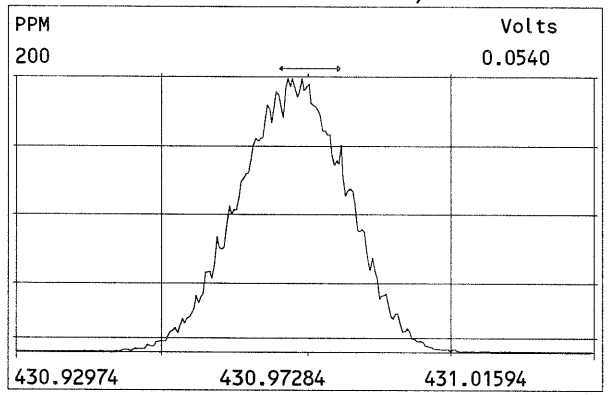


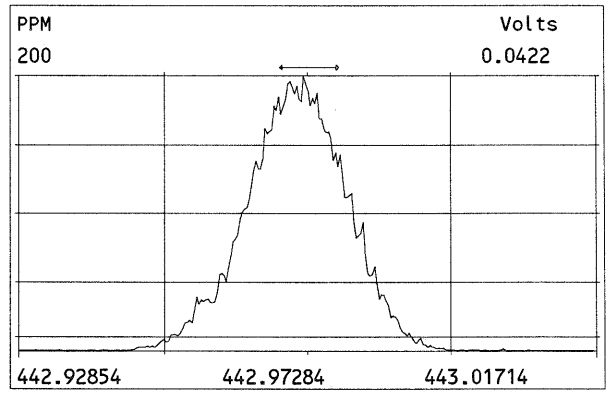


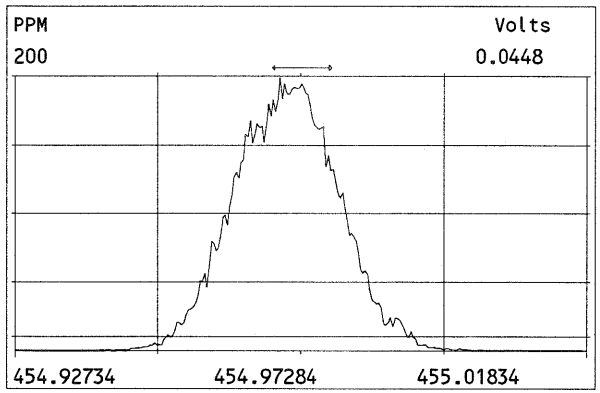


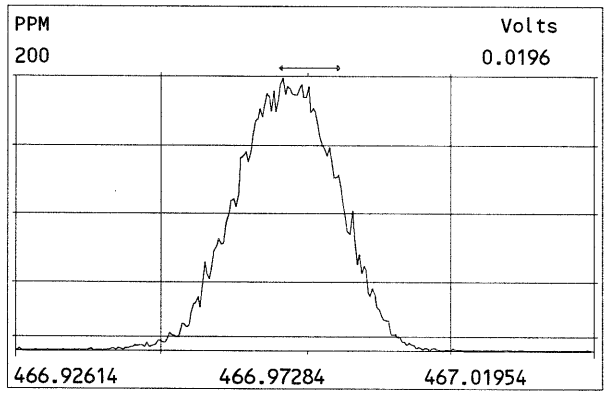
Peak Locate Examination: 3-APR-2019:07:41 File:03APR19Z
Experiment:1668PCB Function:6 Reference:PFK 77

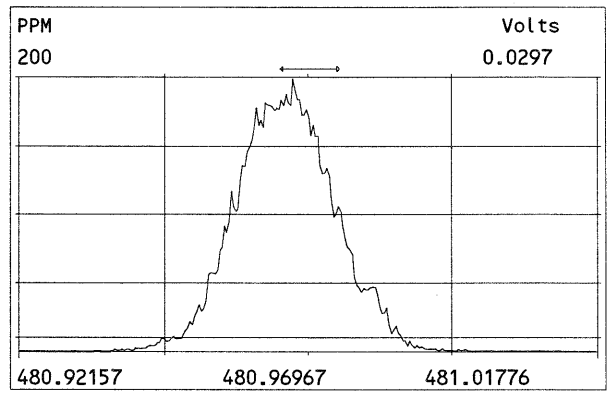


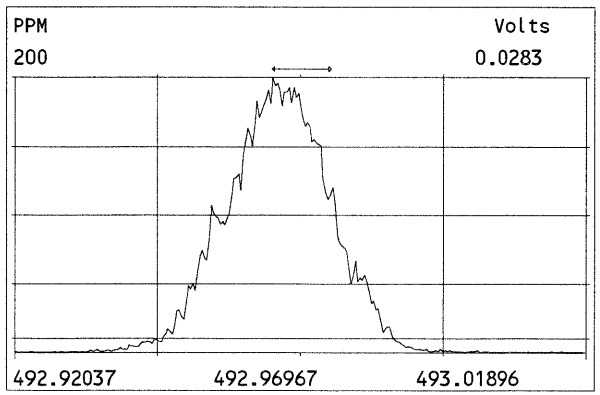


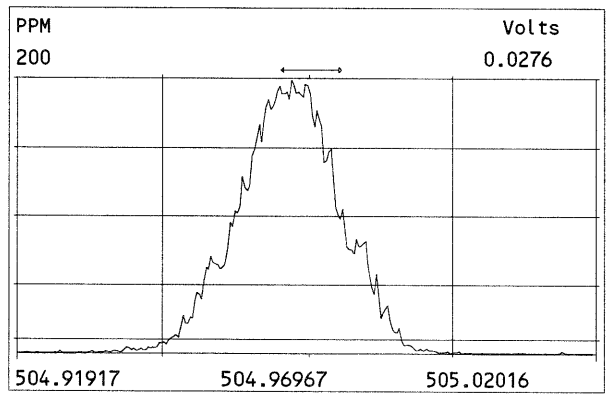


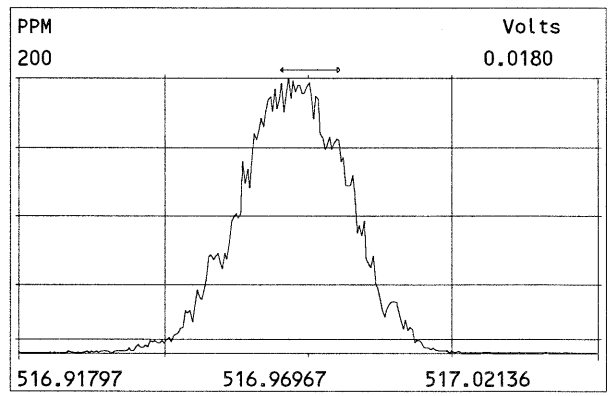




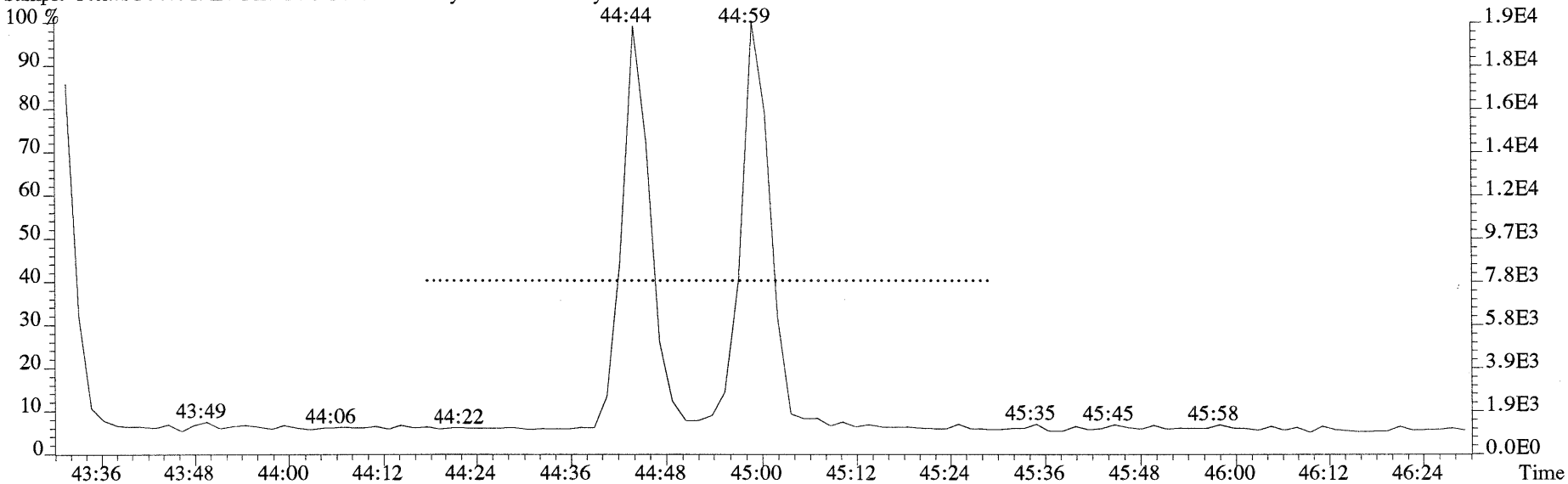




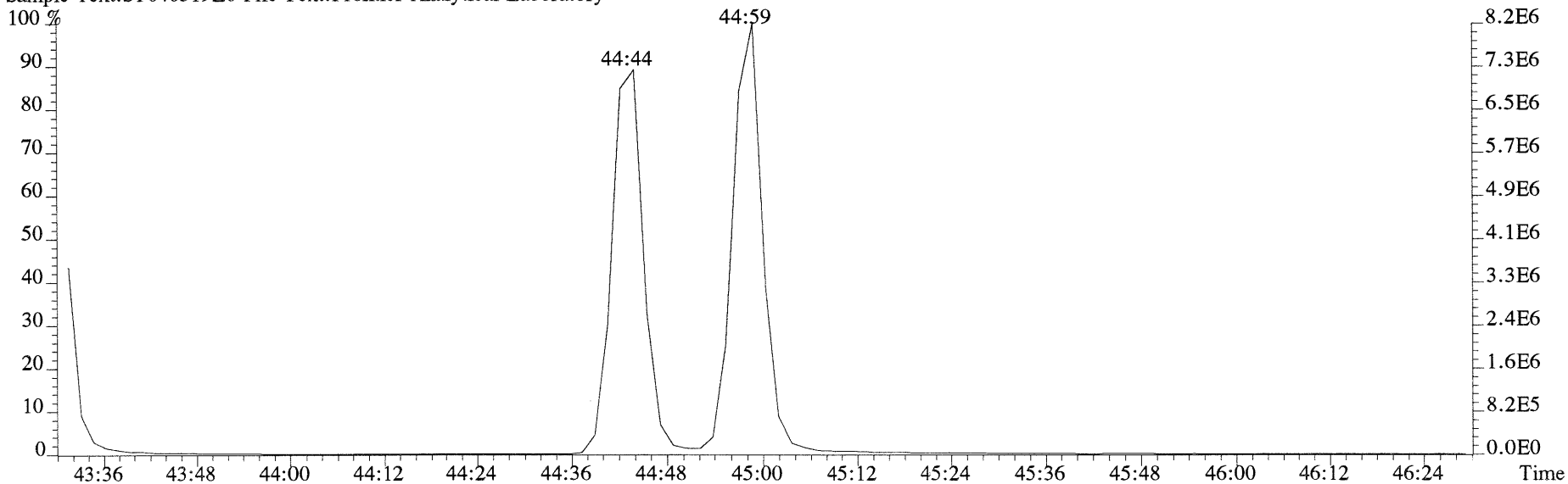




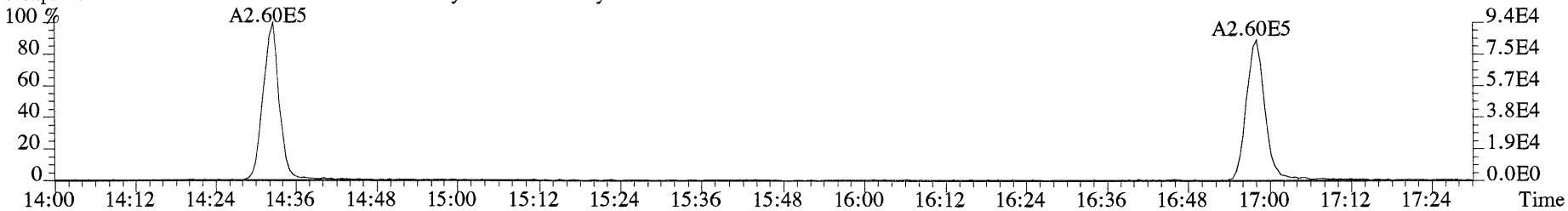
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



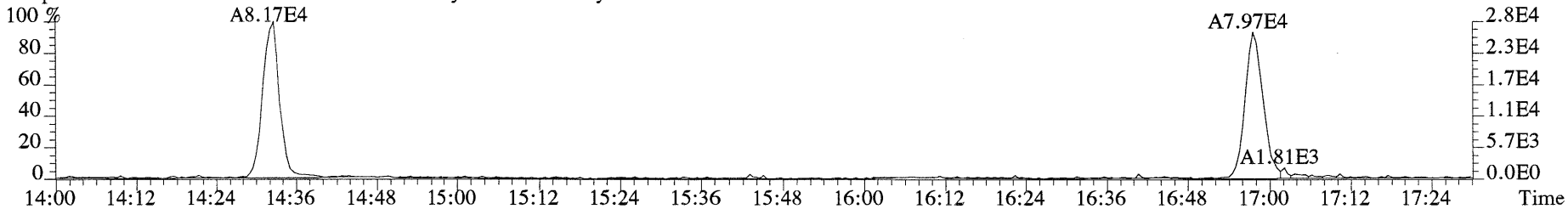
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



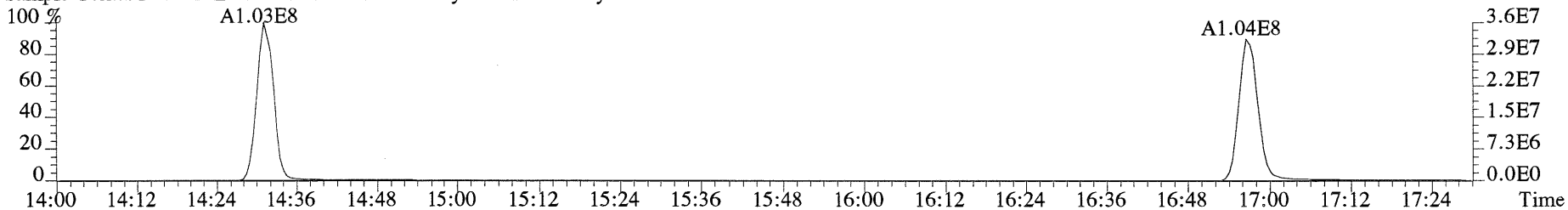
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



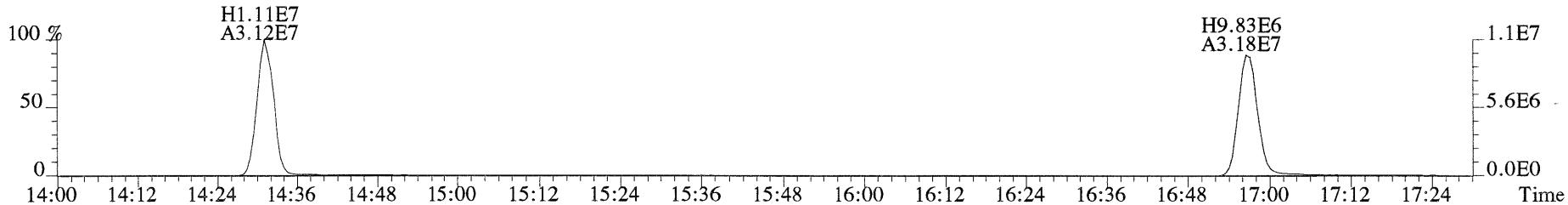
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



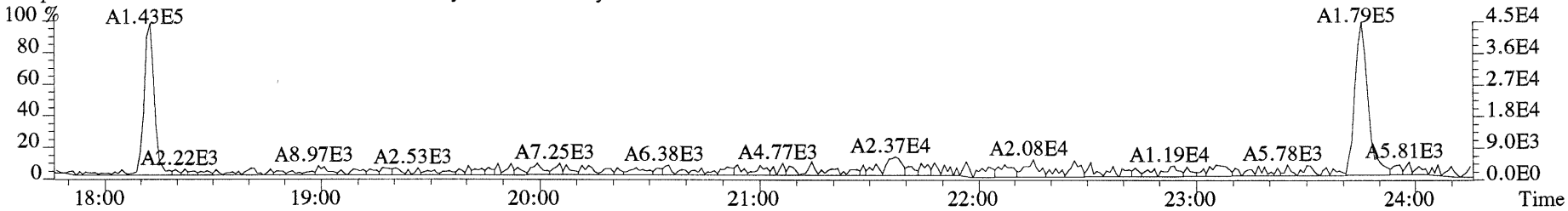
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



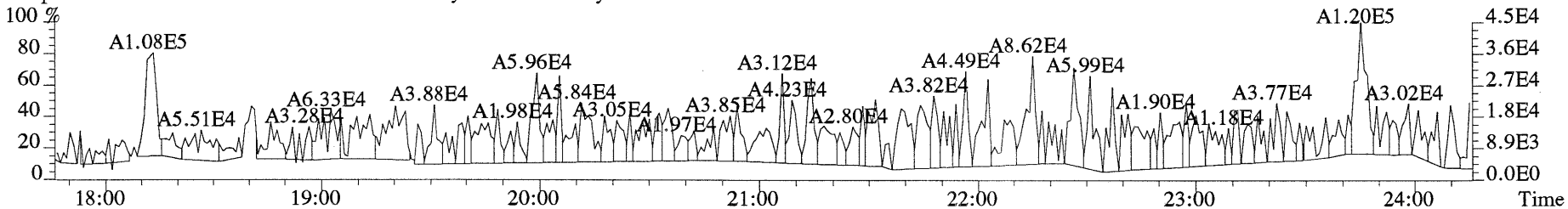
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



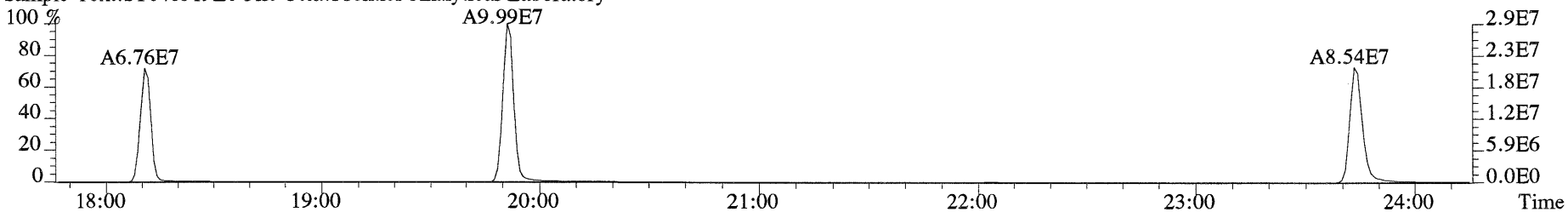
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



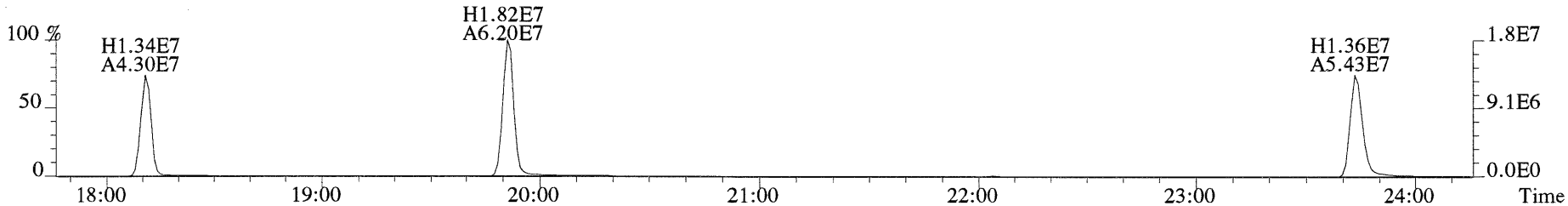
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



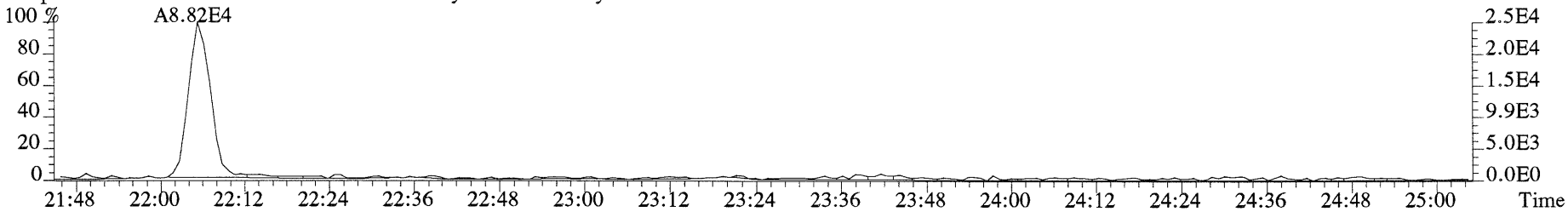
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



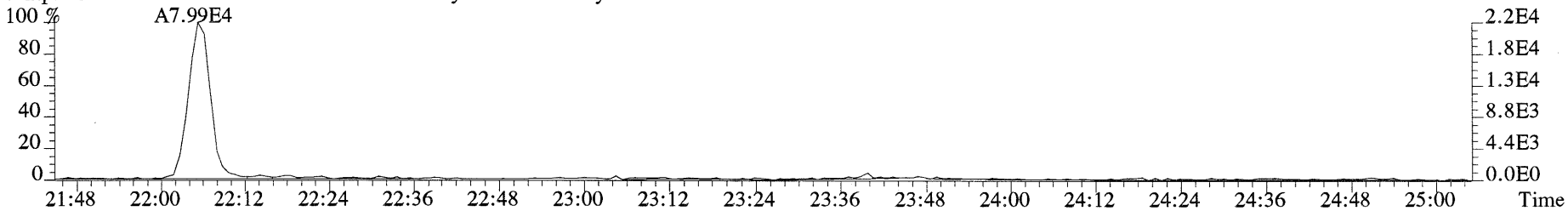
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



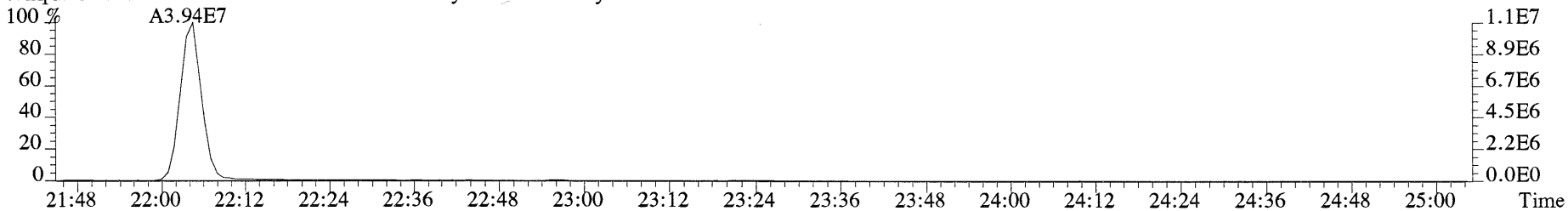
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



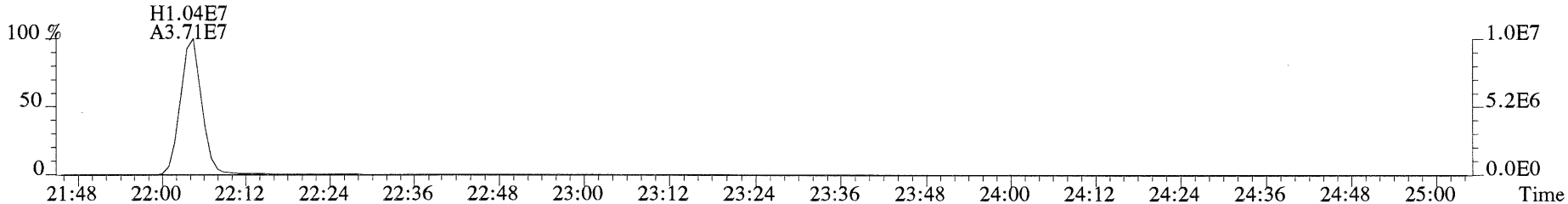
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



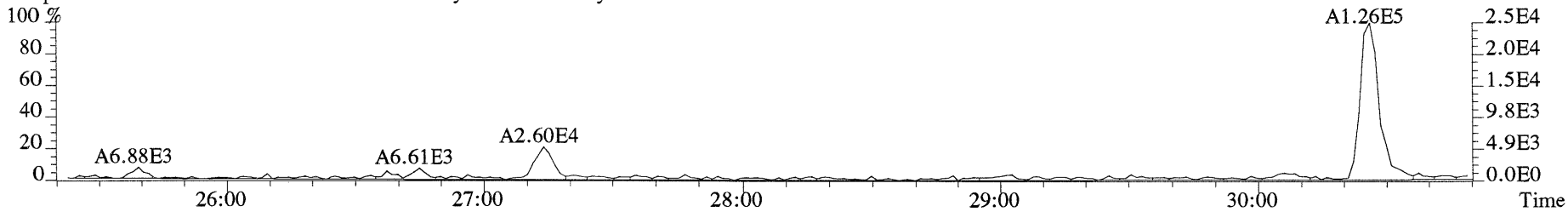
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



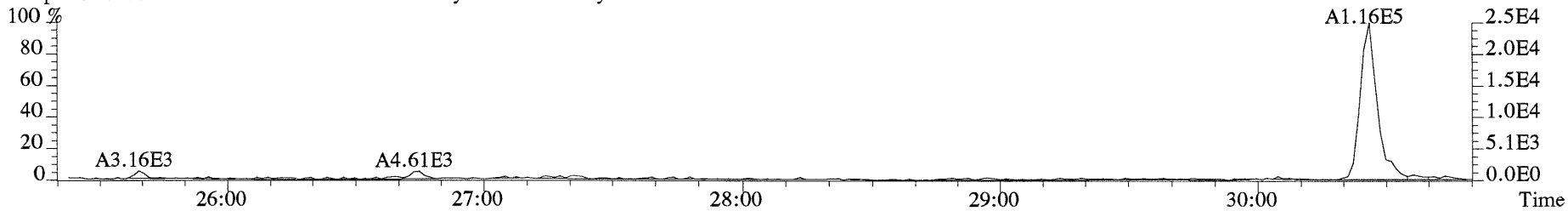
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



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



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



File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
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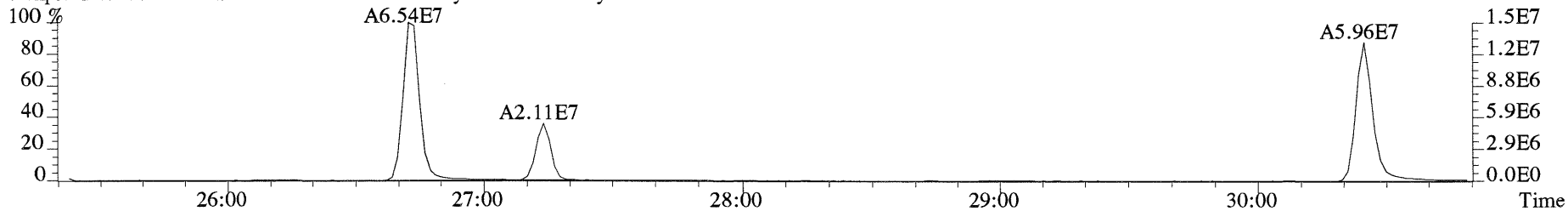

File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
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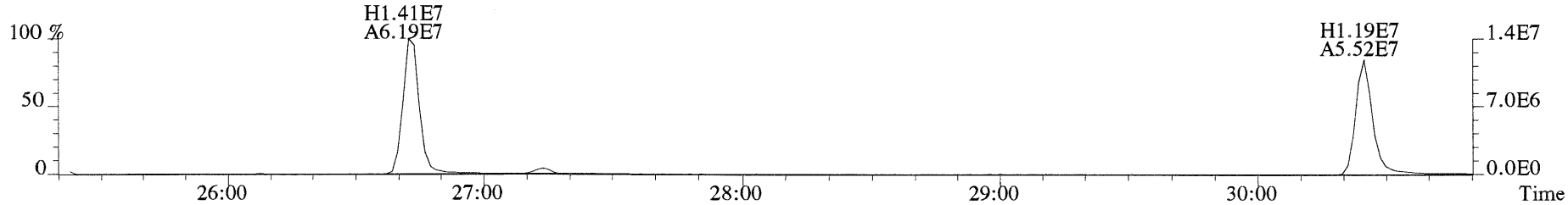
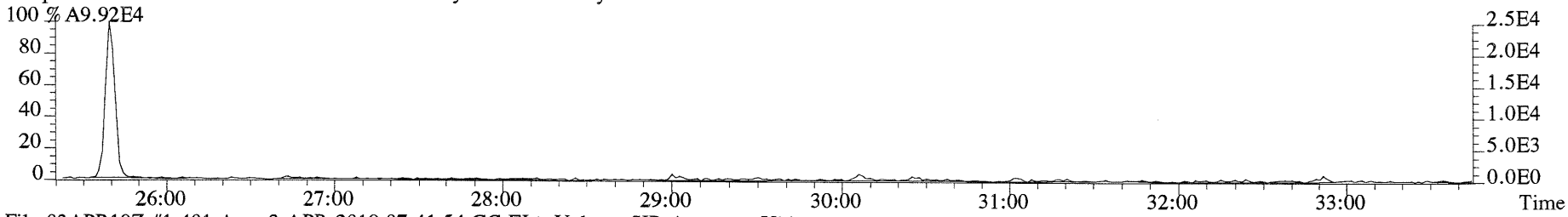
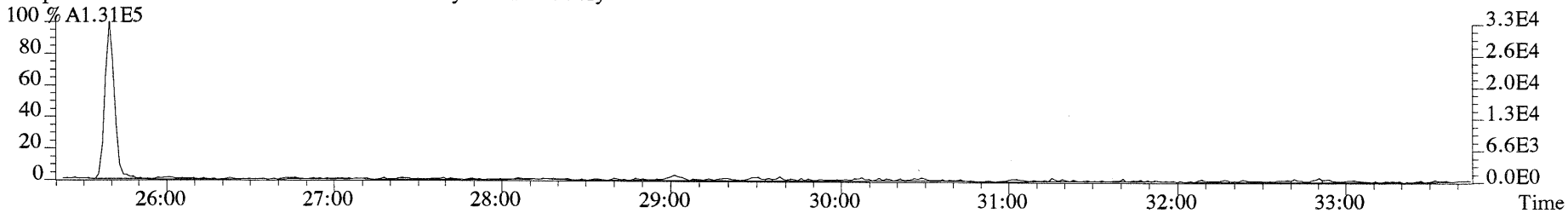


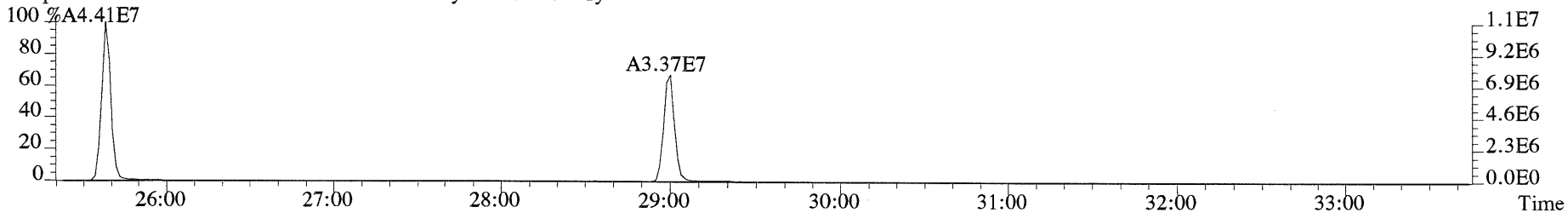
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



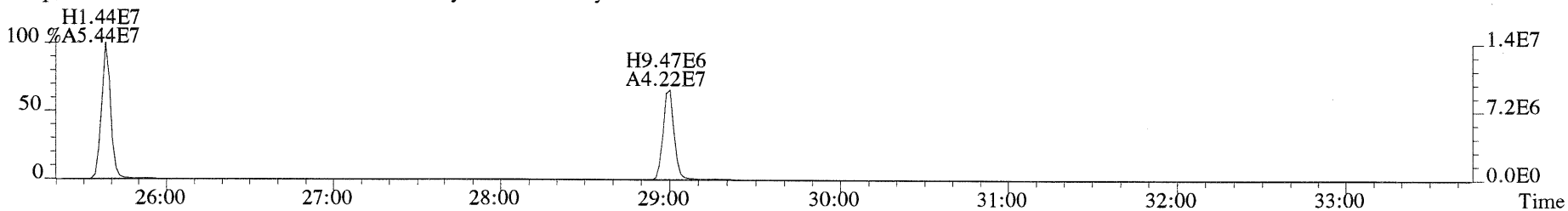
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



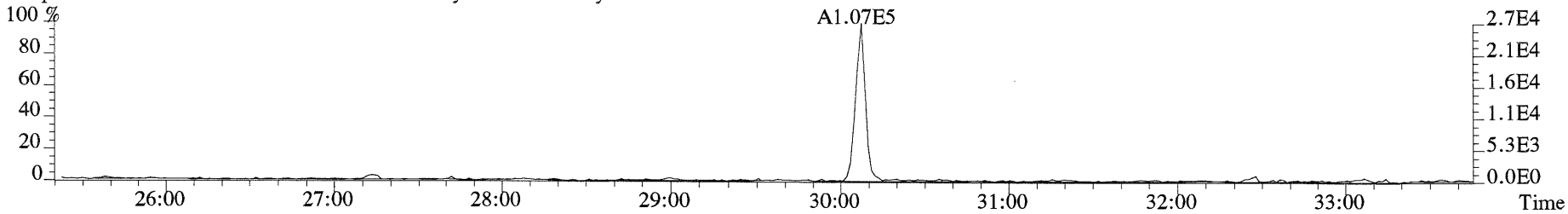
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



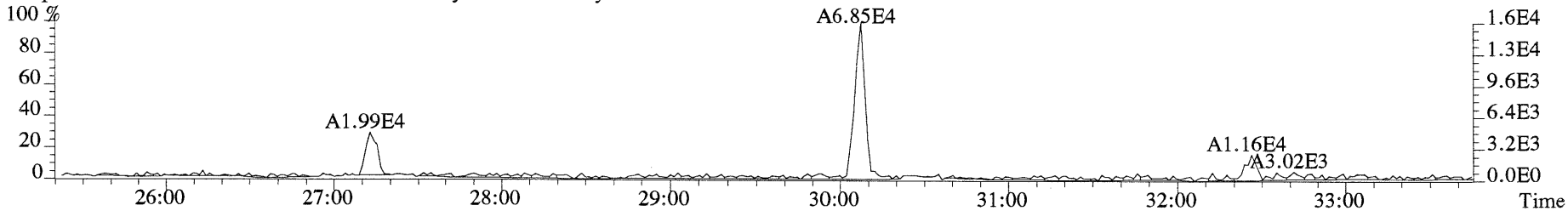
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



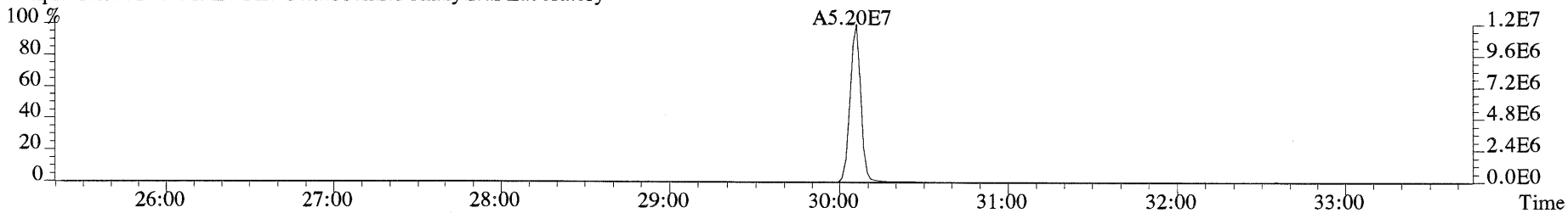
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



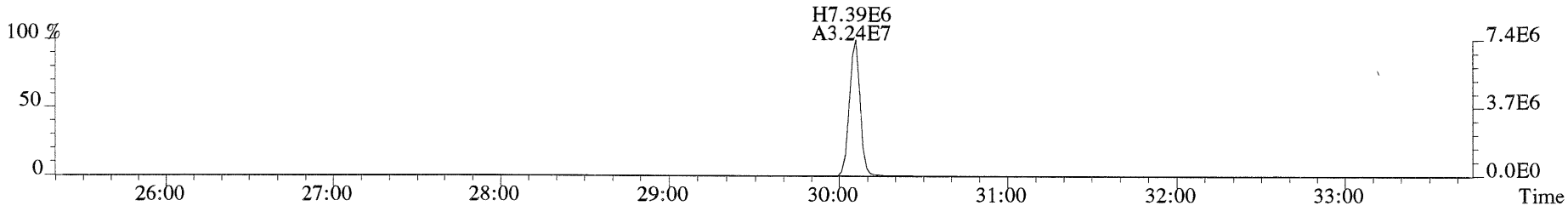
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



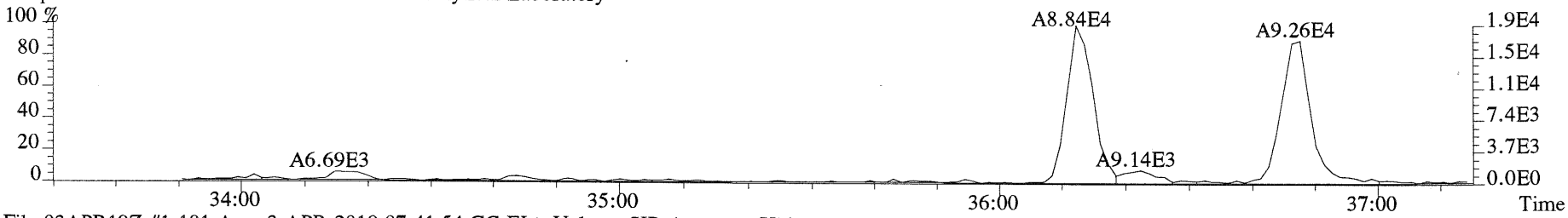
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



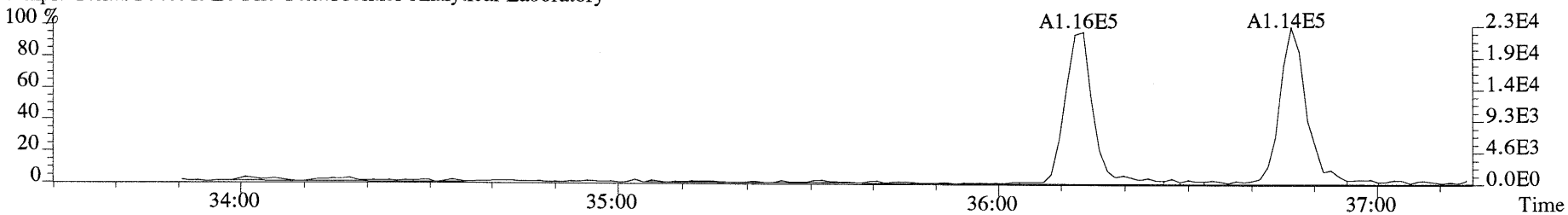
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



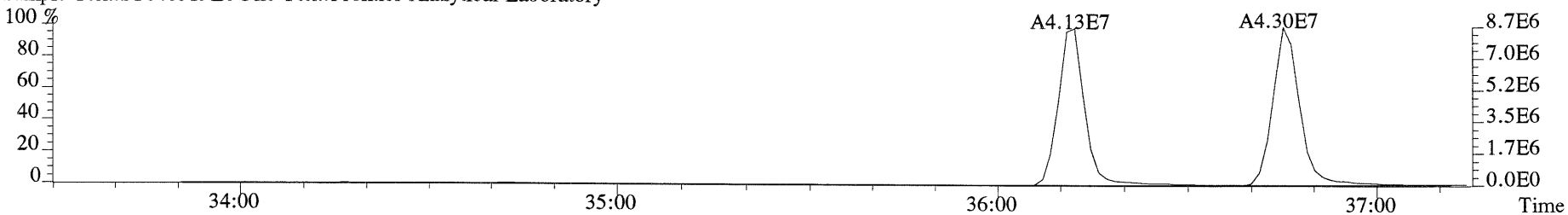
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



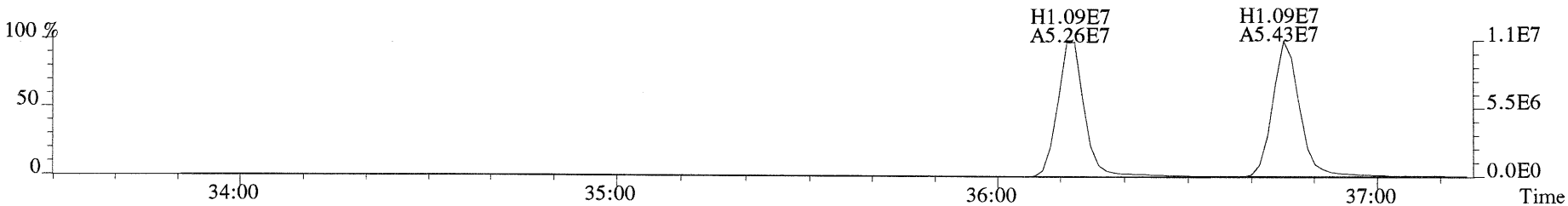
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



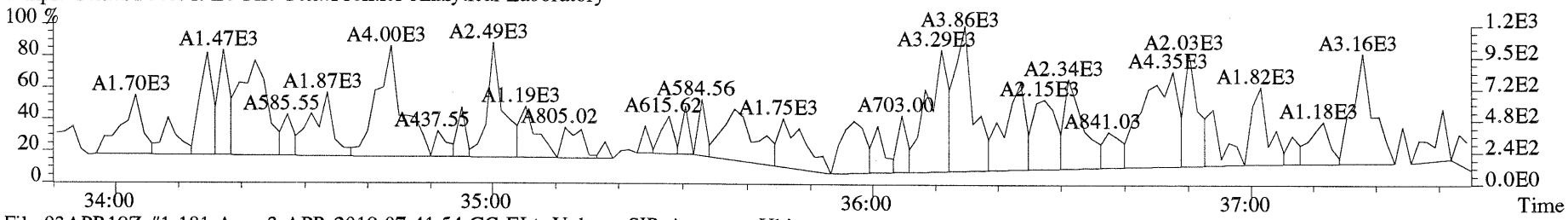
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



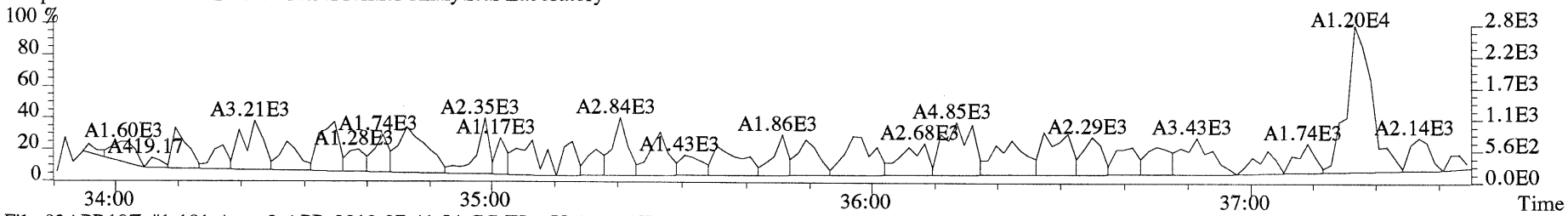
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



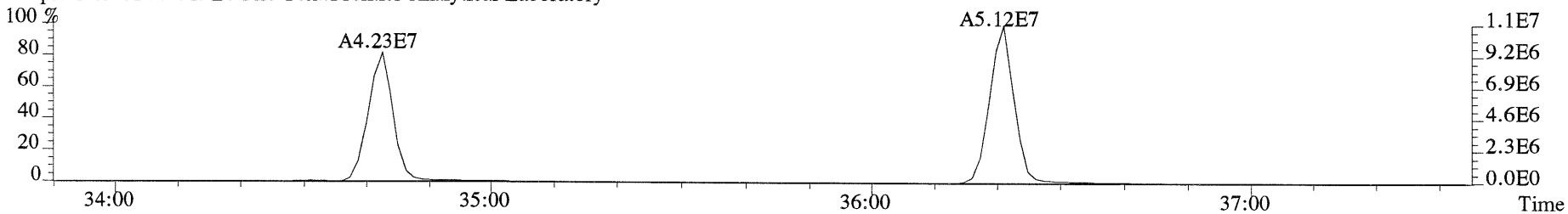
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



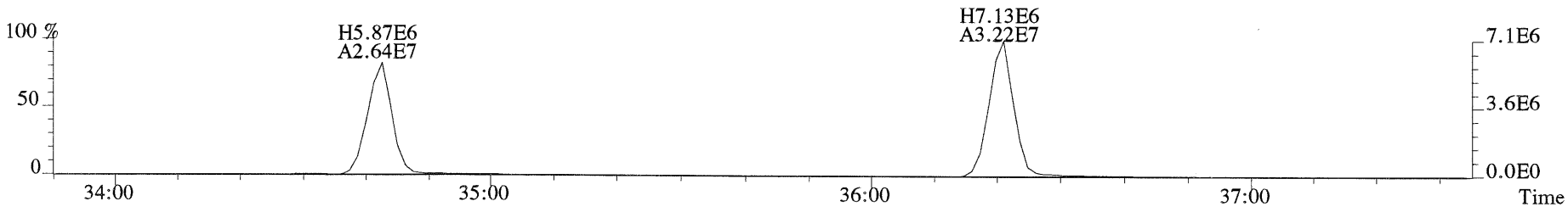
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



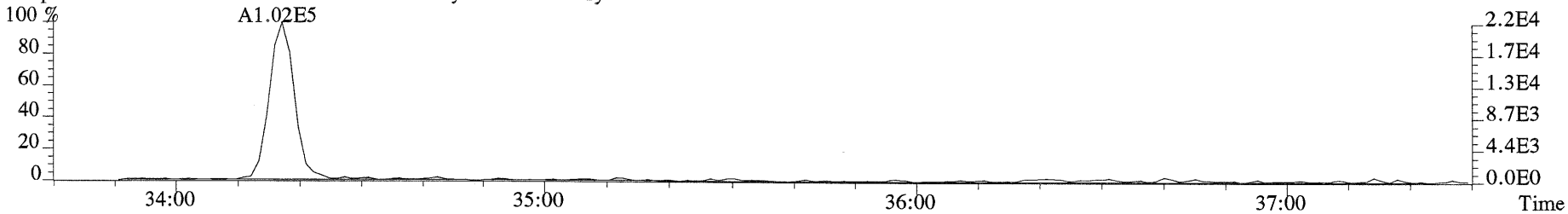
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



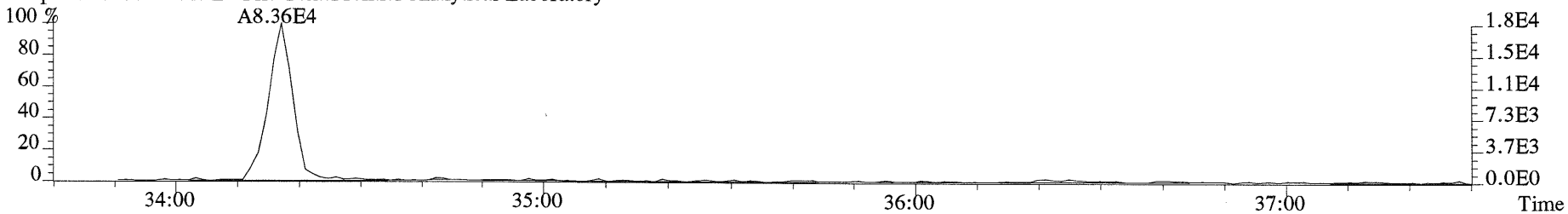
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



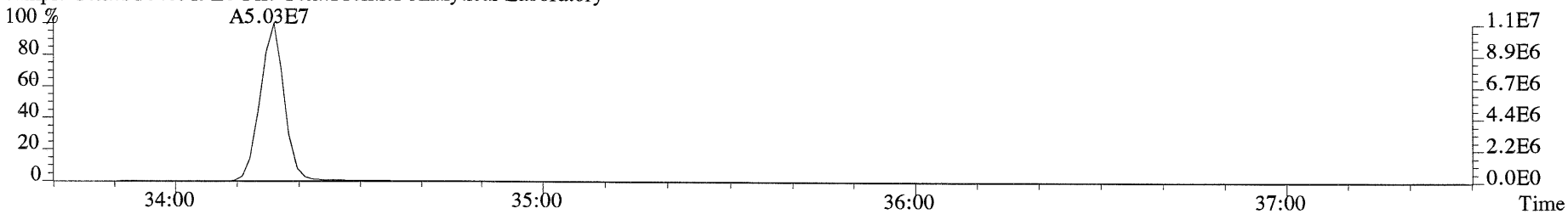
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



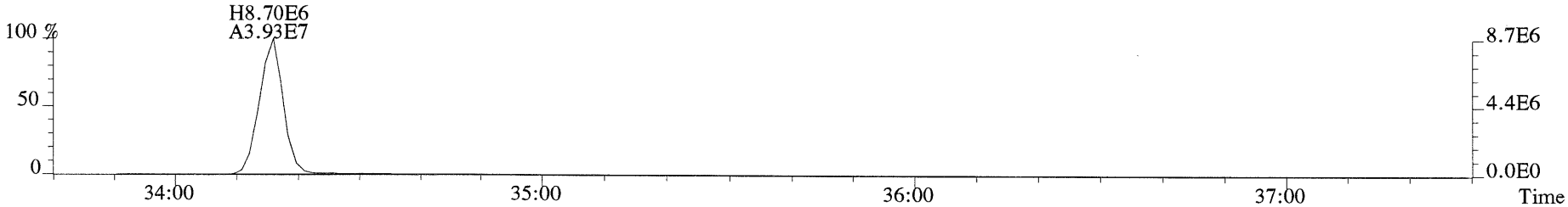
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



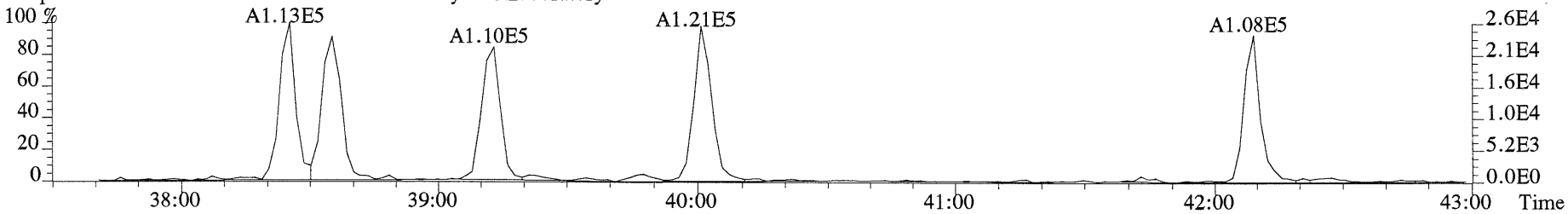
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



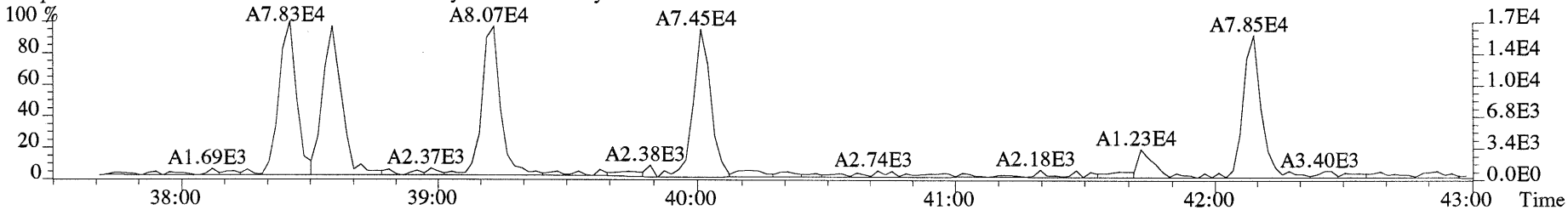
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



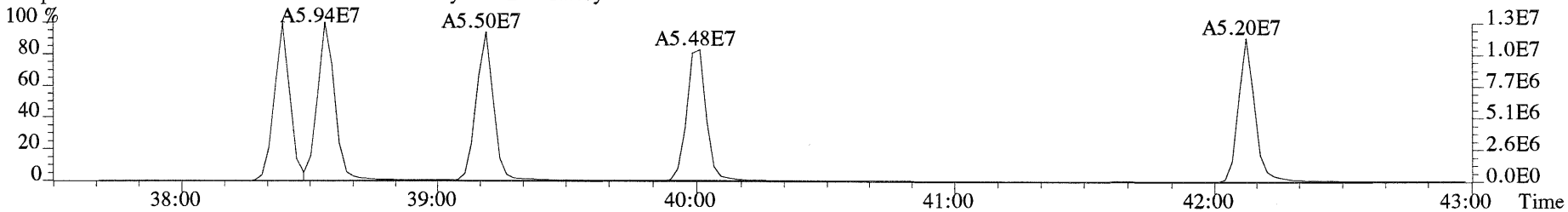
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



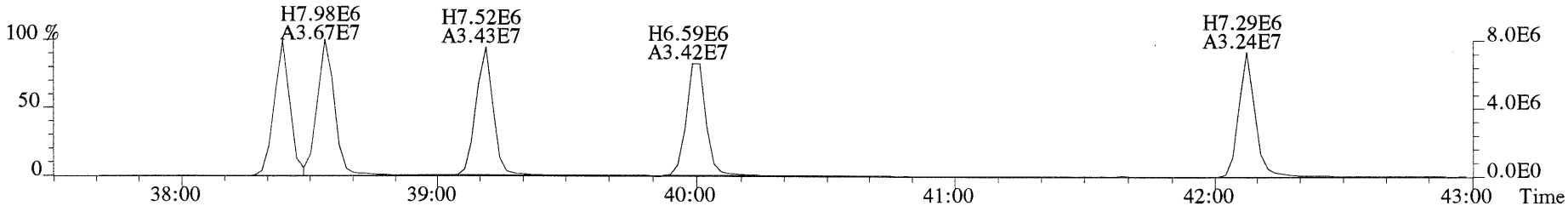
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



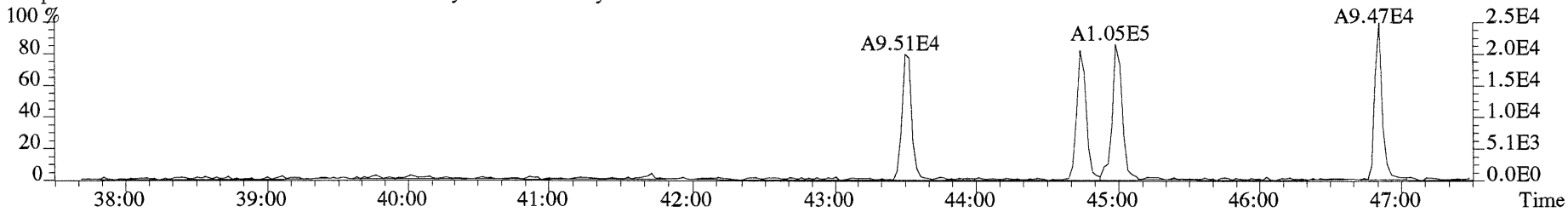
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



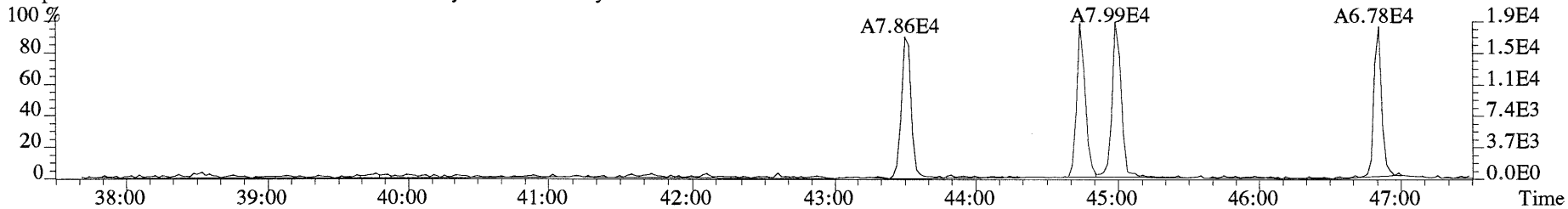
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



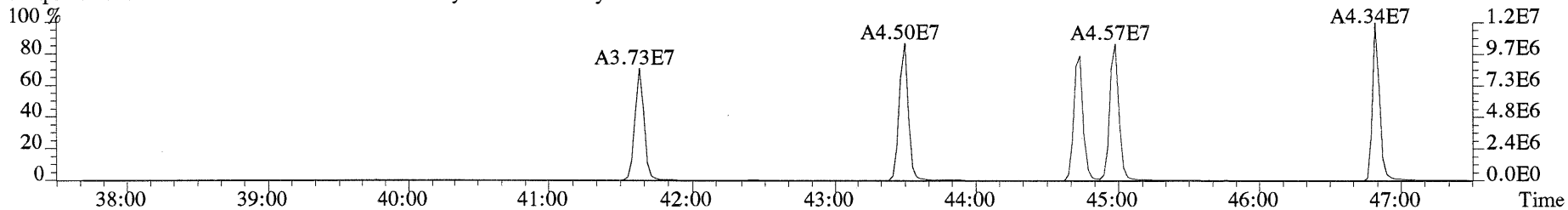
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



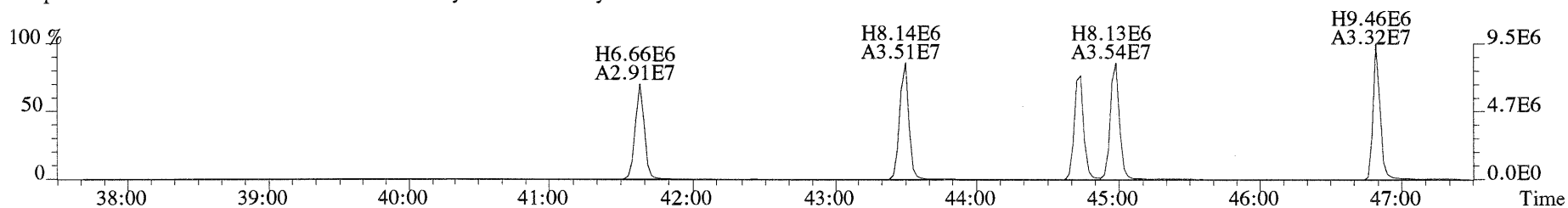
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



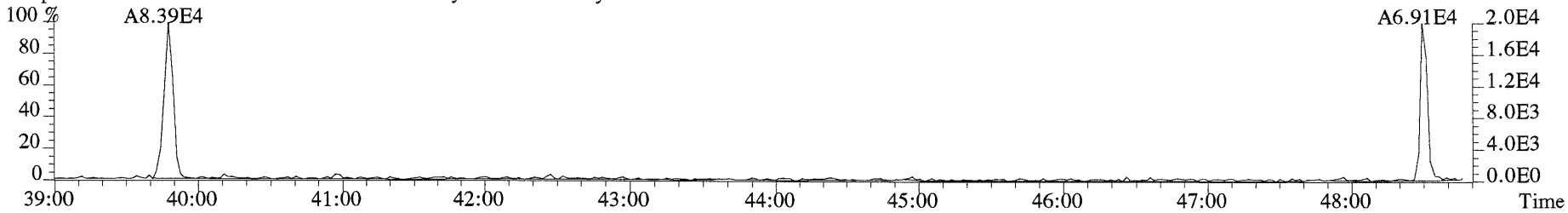
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



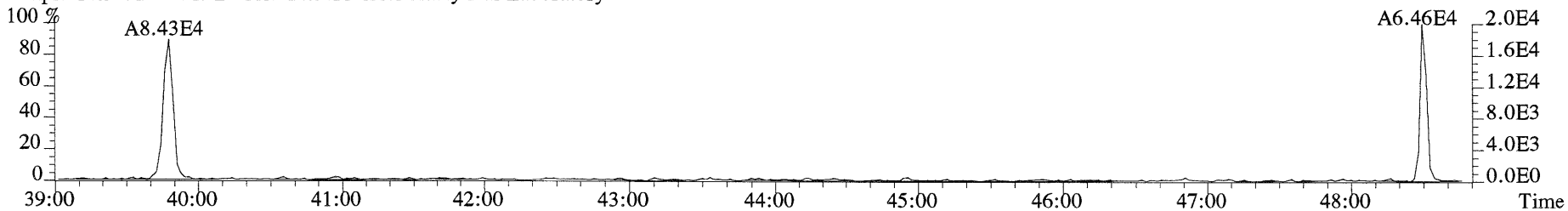
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



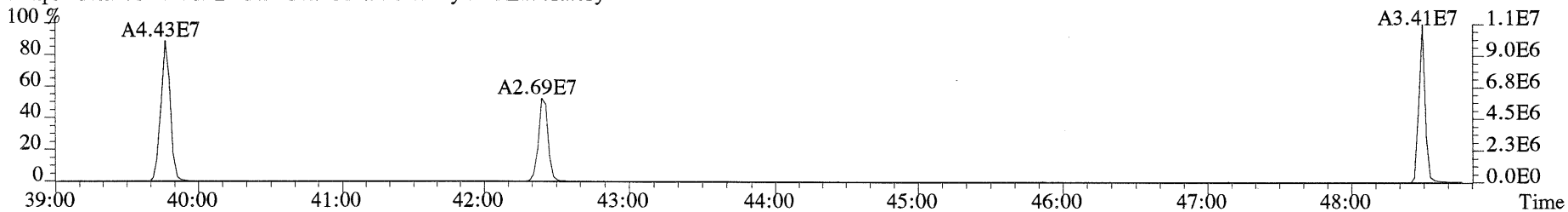
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



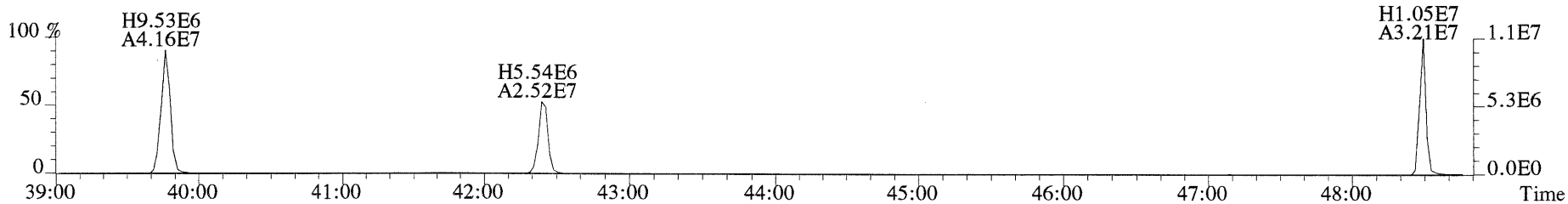
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



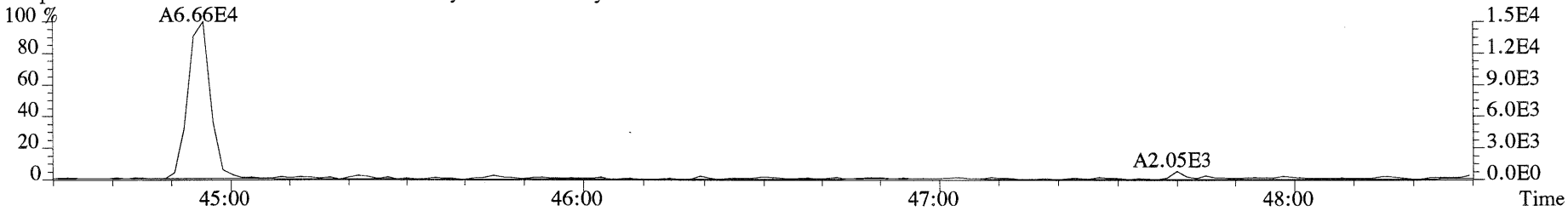
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



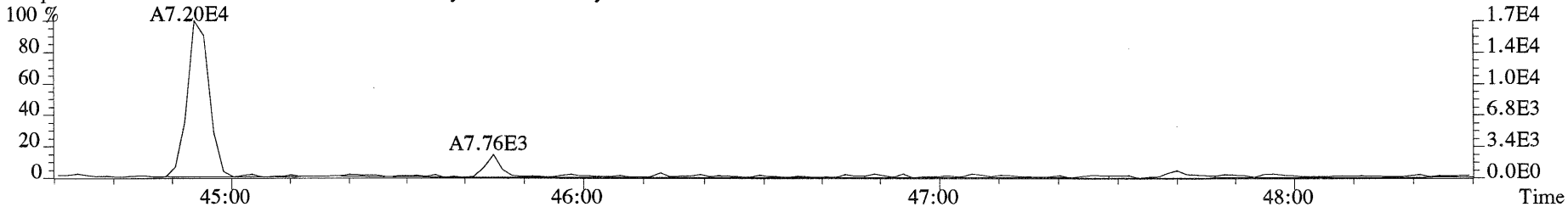
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



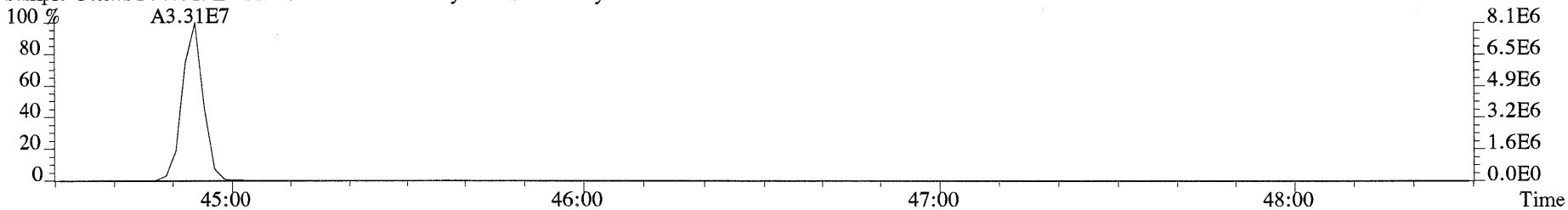
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



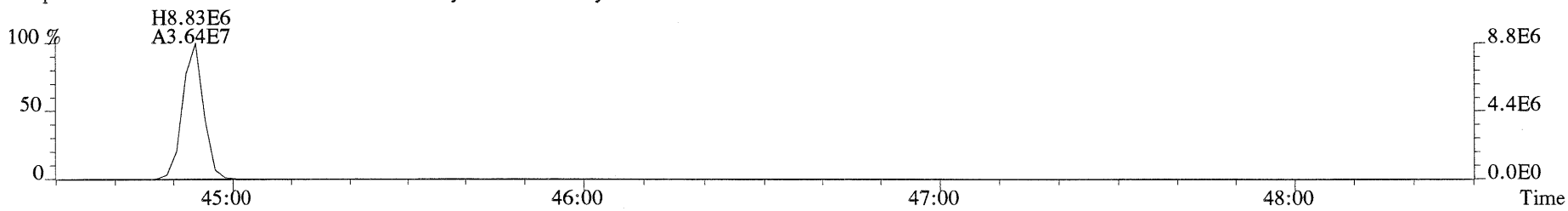
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



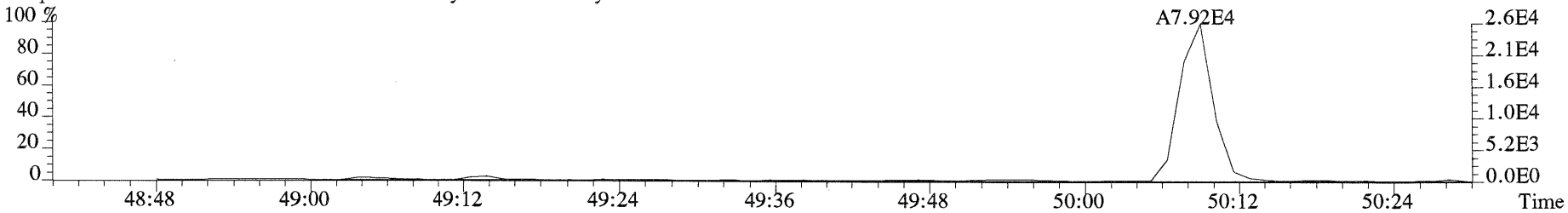
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



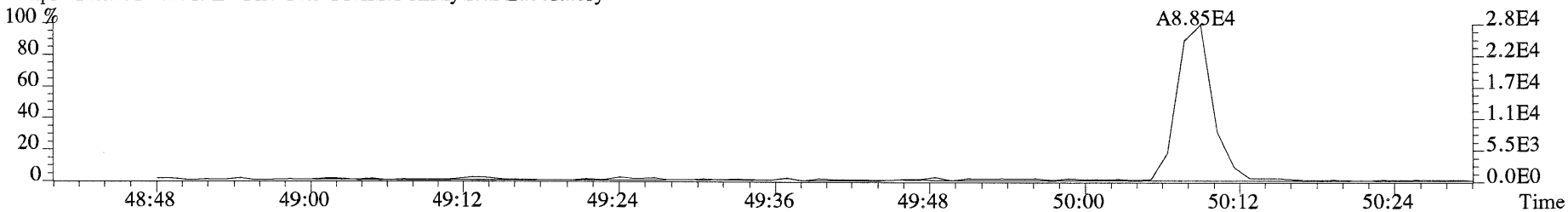
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



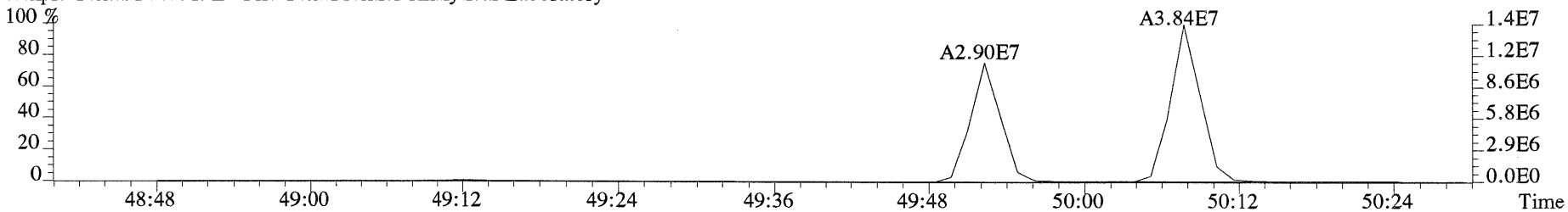
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



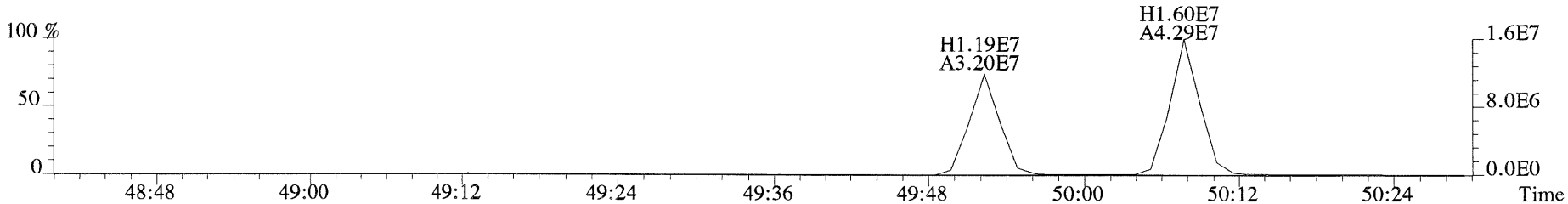
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



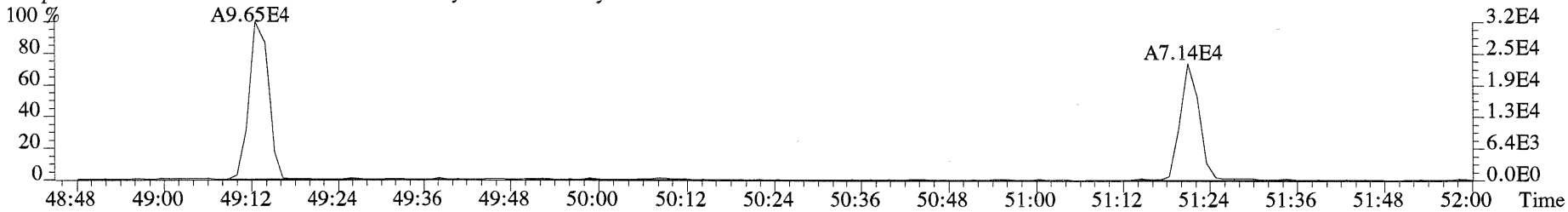
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



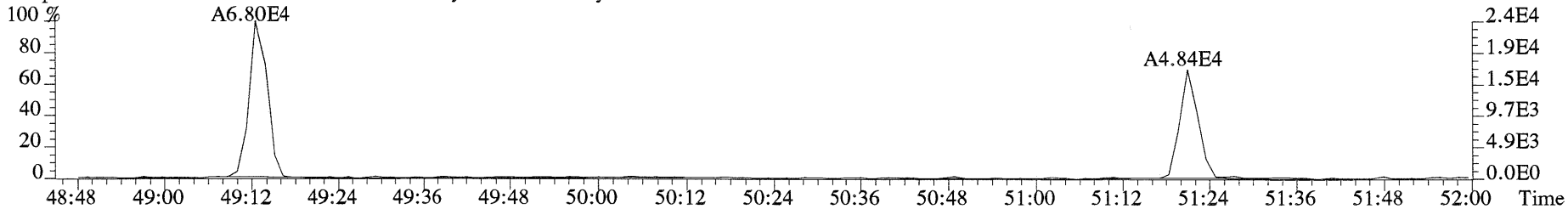
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



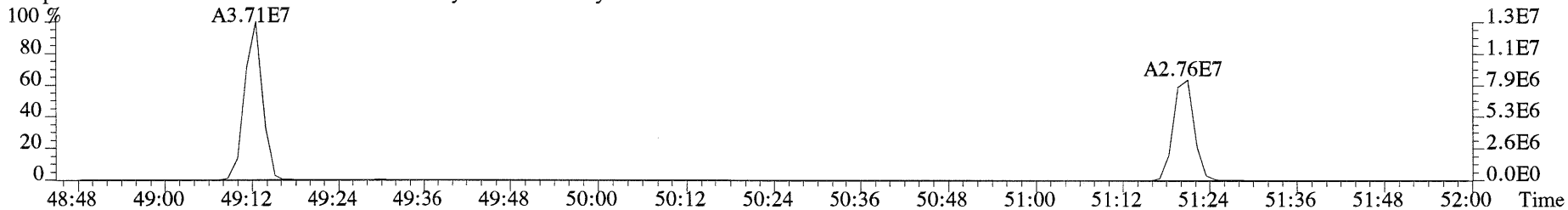
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



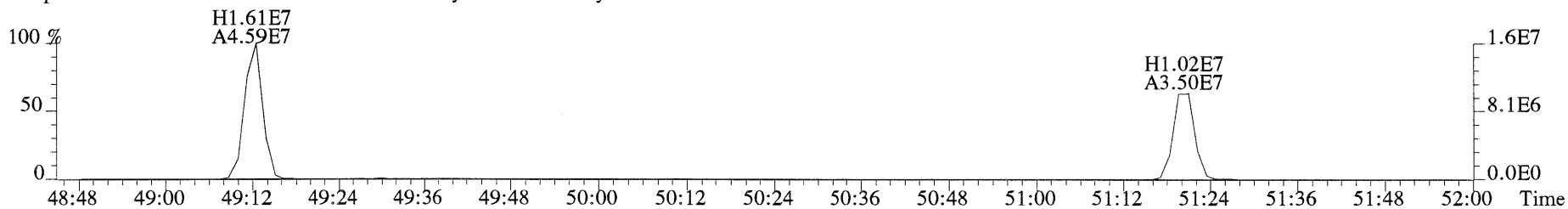
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



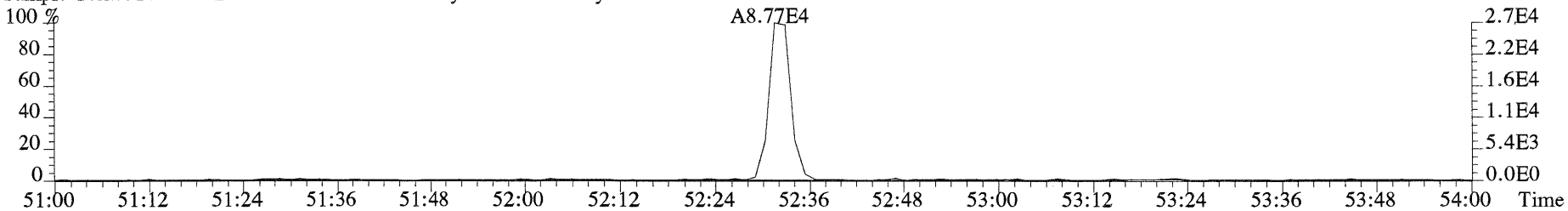
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



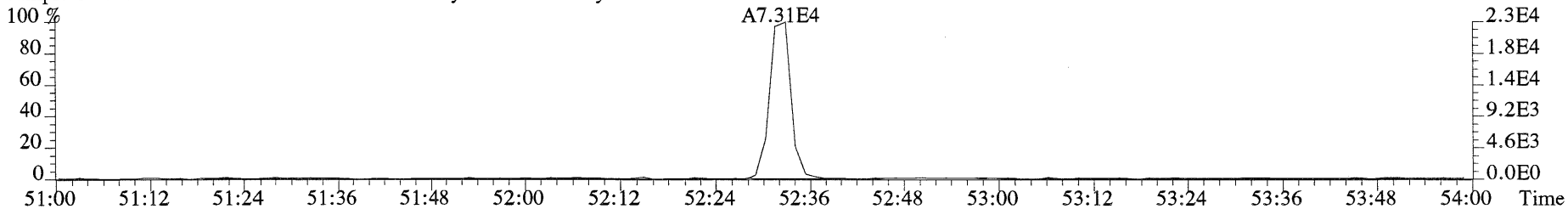
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



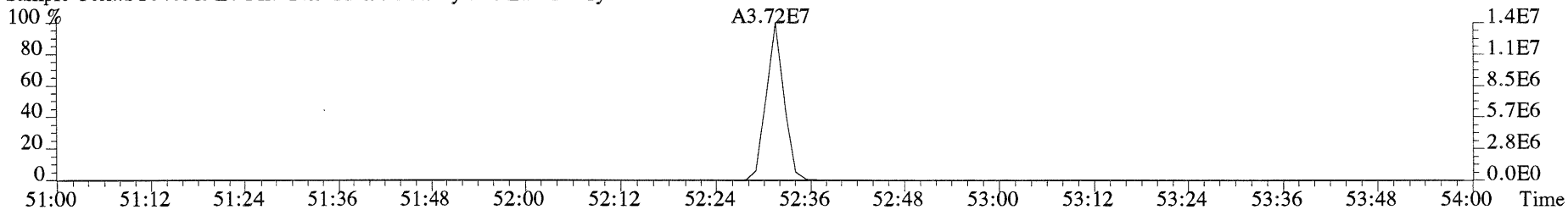
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



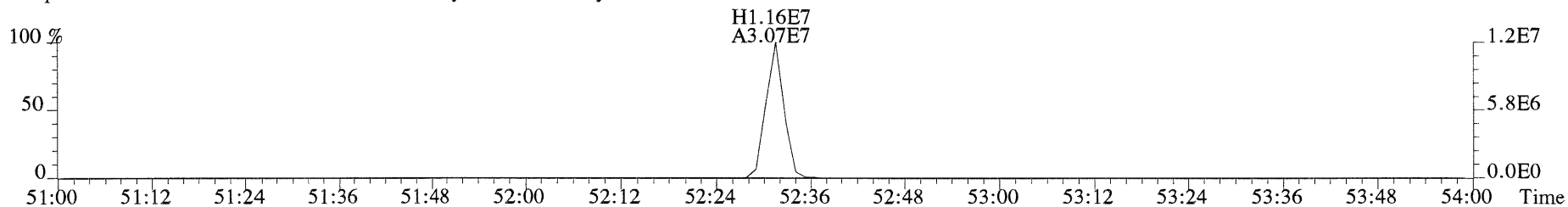
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



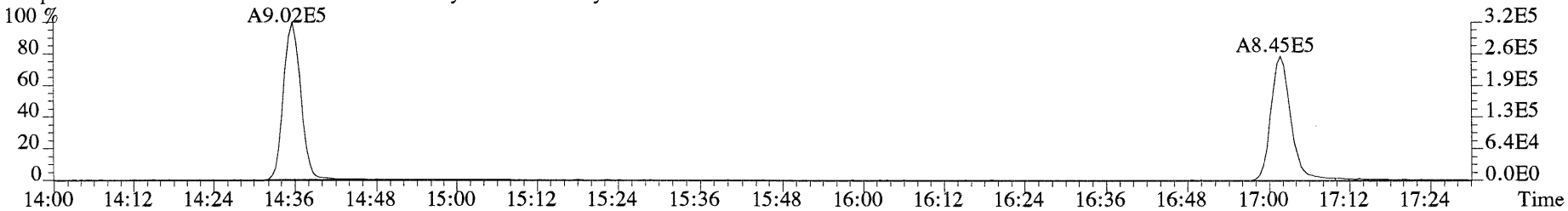
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



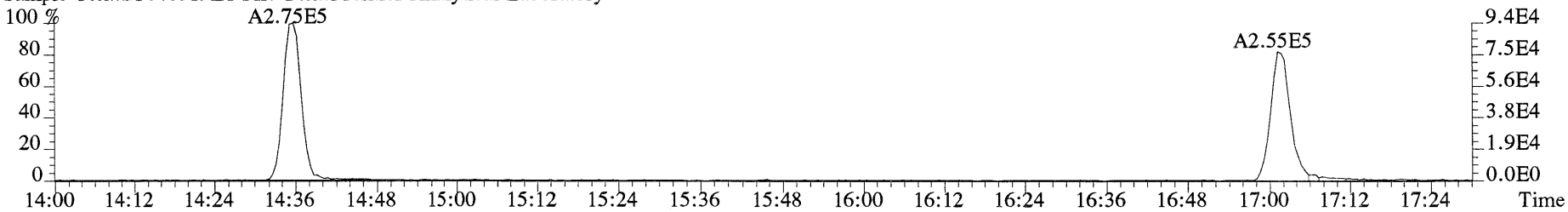
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



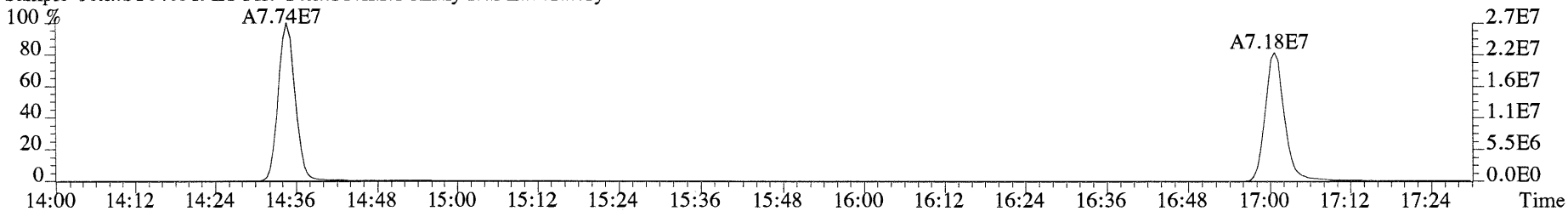
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



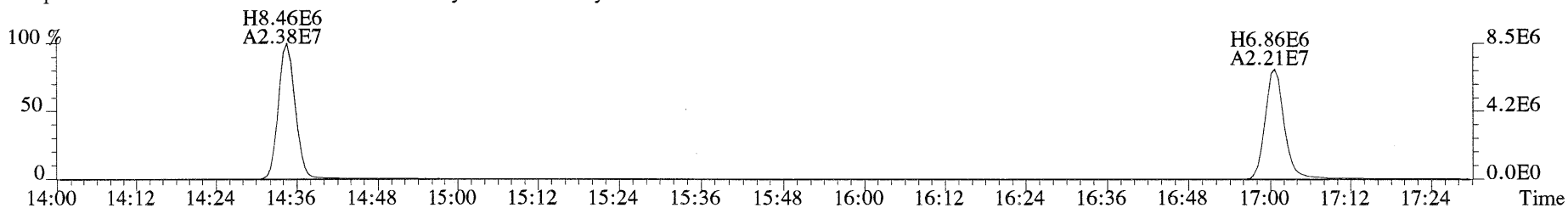
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



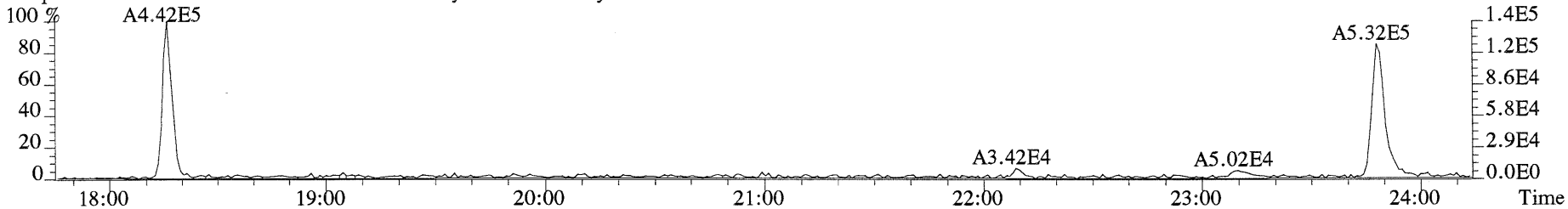
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



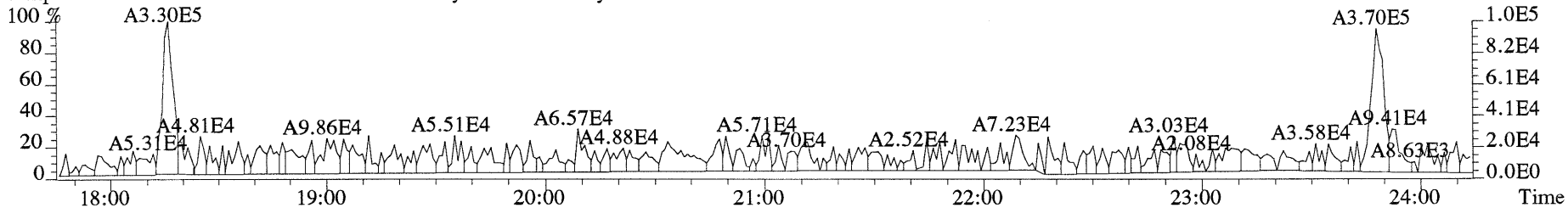
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



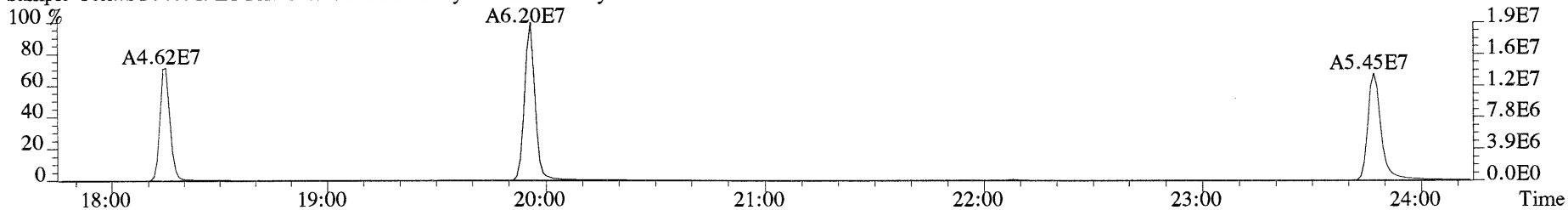
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



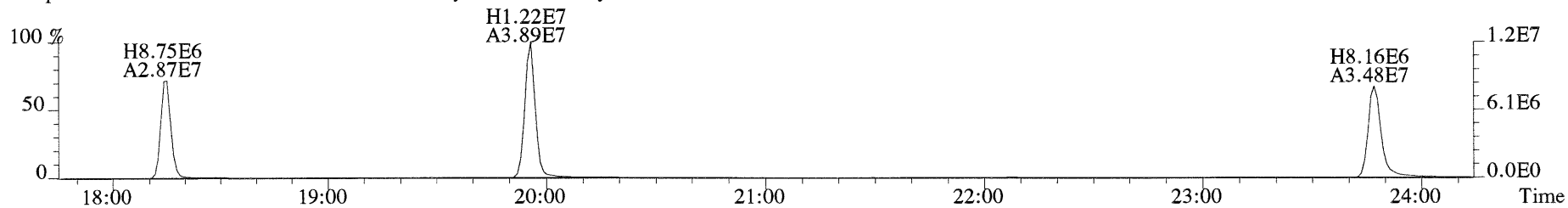
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



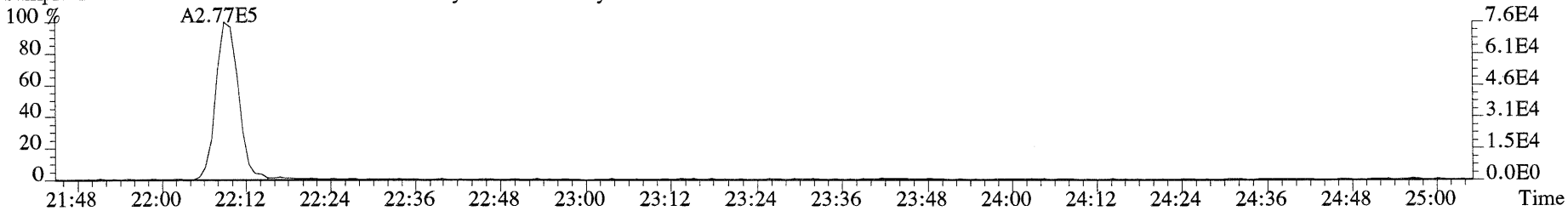
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



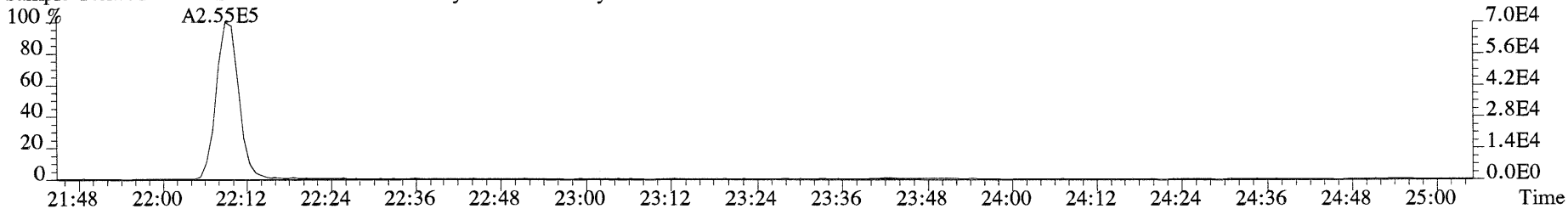
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



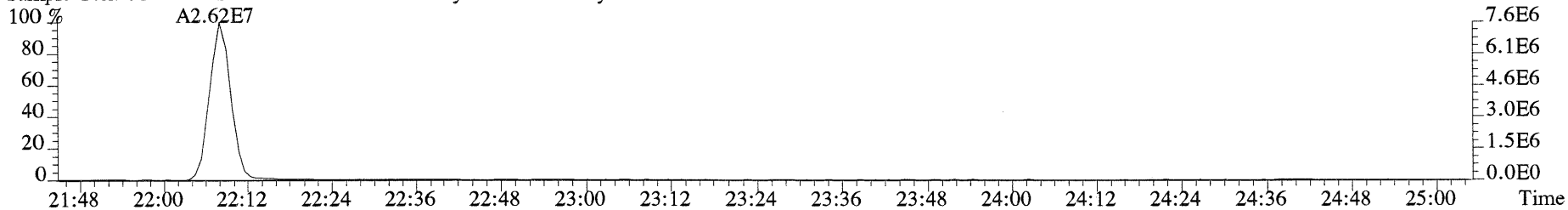
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



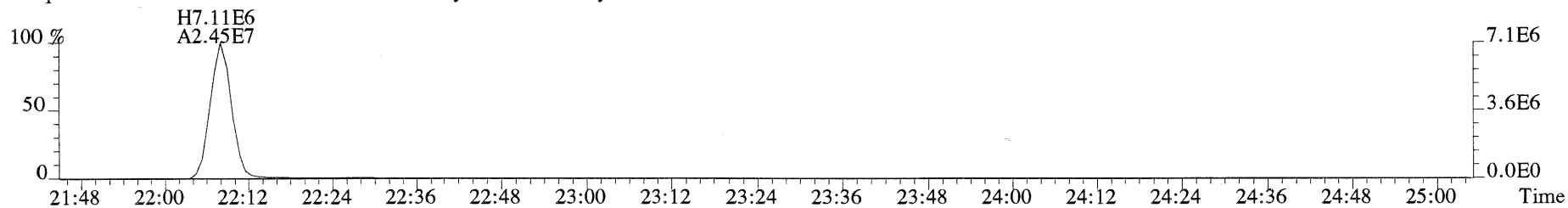
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



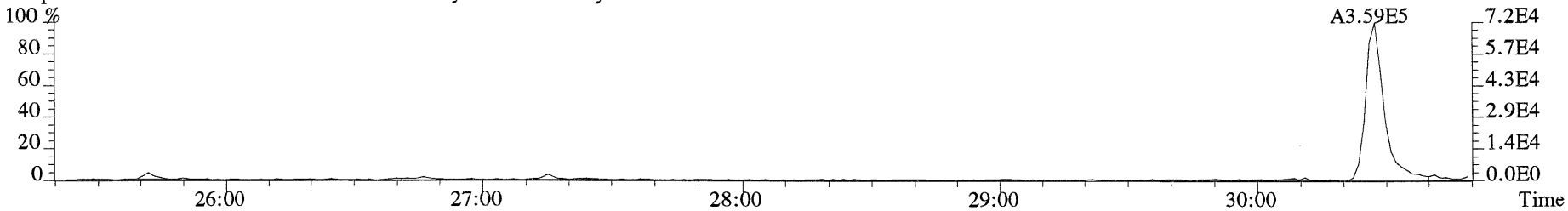
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



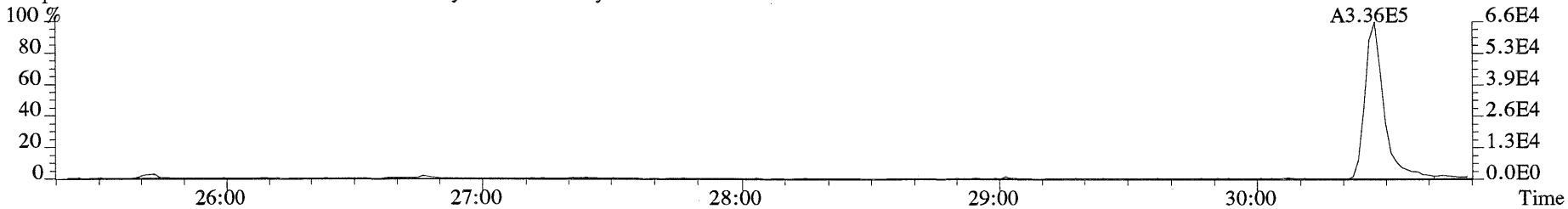
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



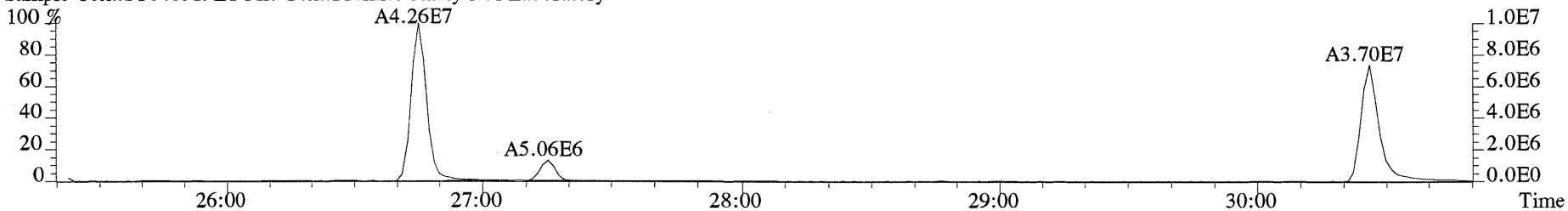
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



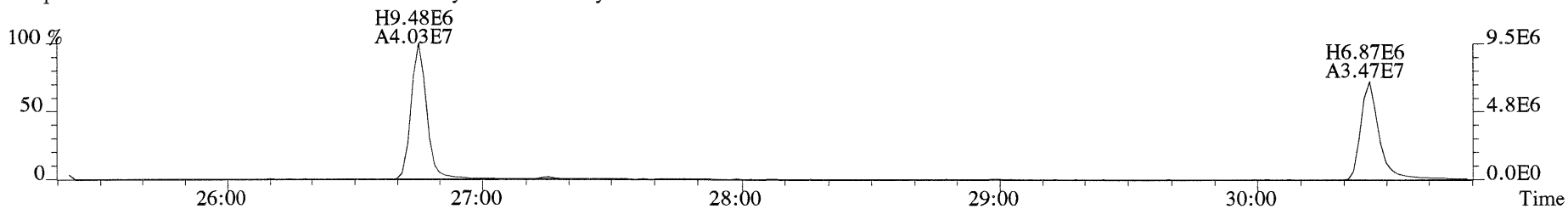
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



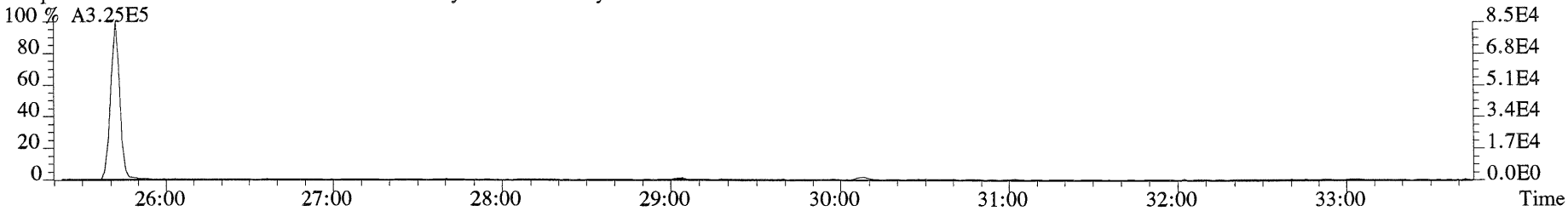
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



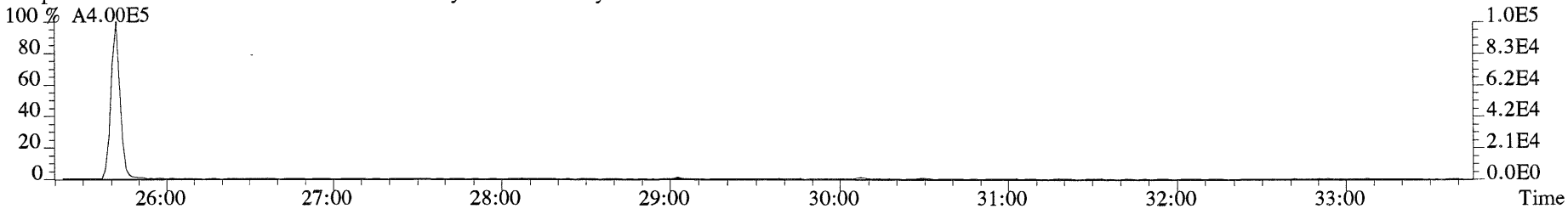
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



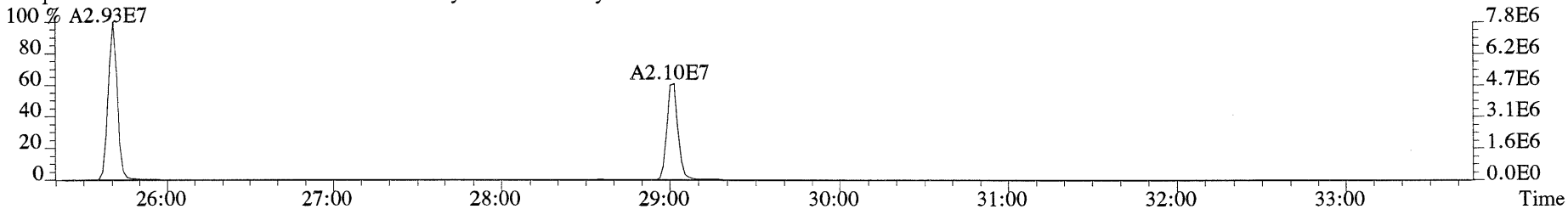
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



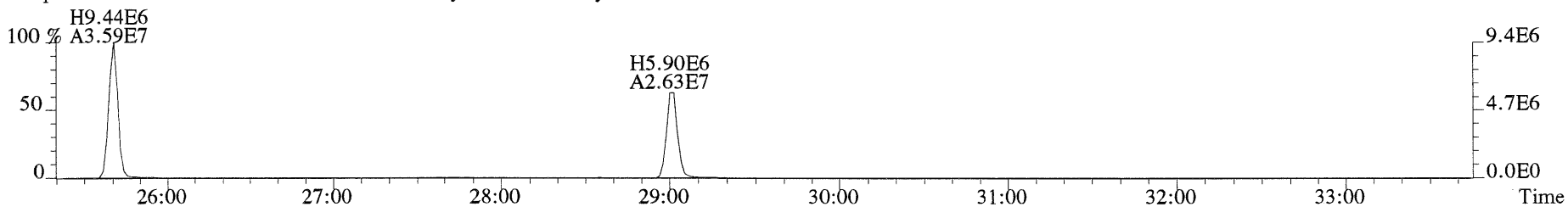
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



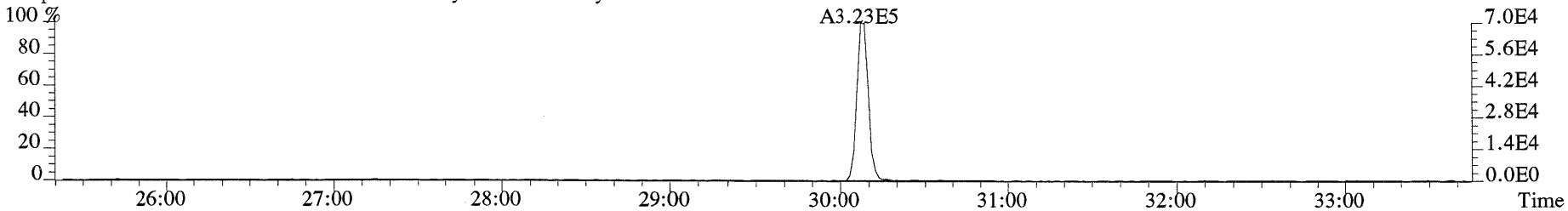
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



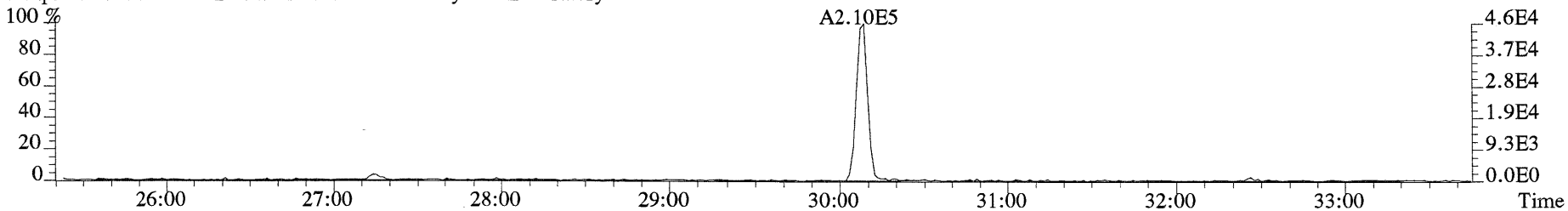
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



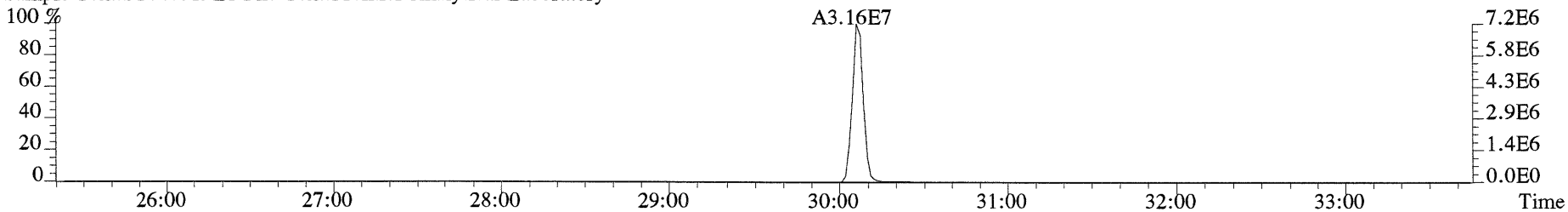
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



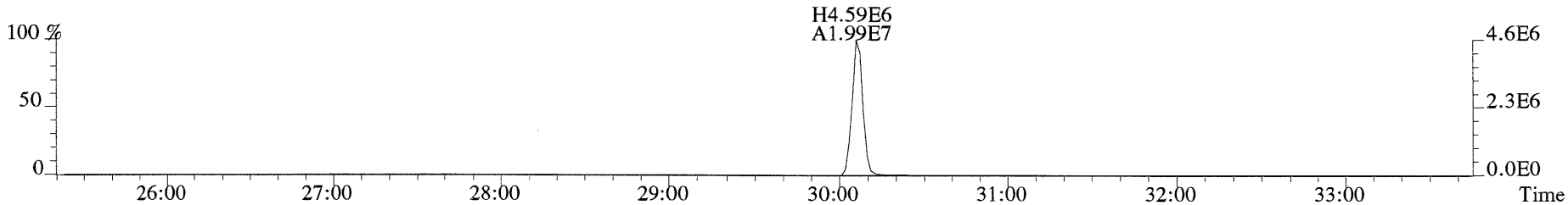
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



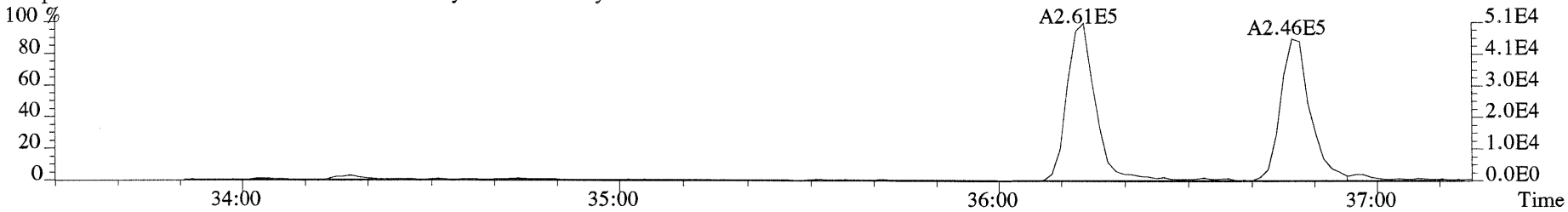
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



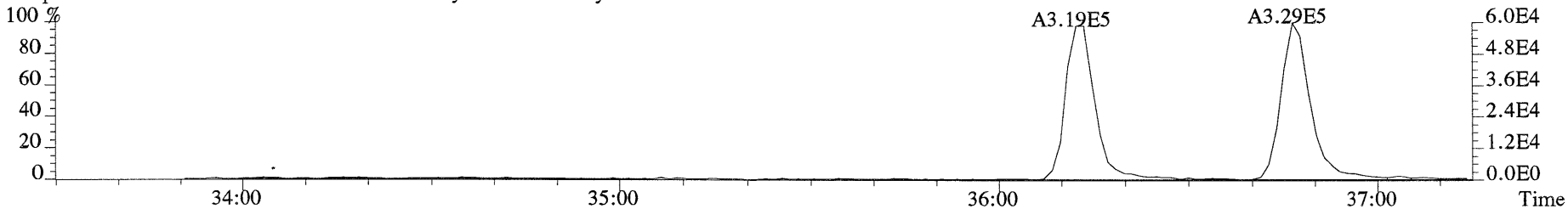
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



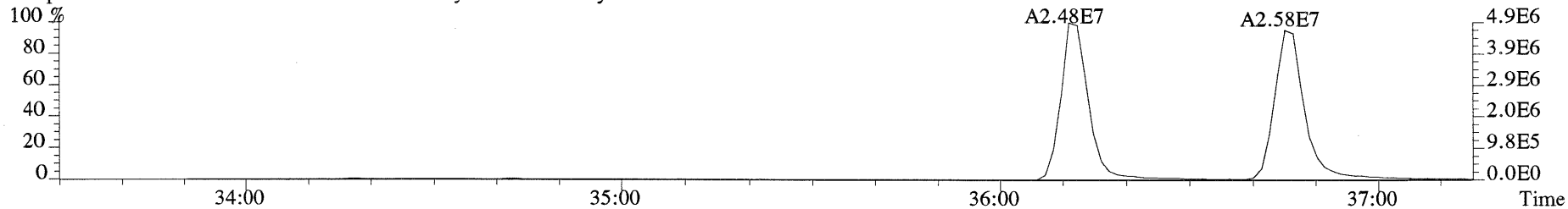
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



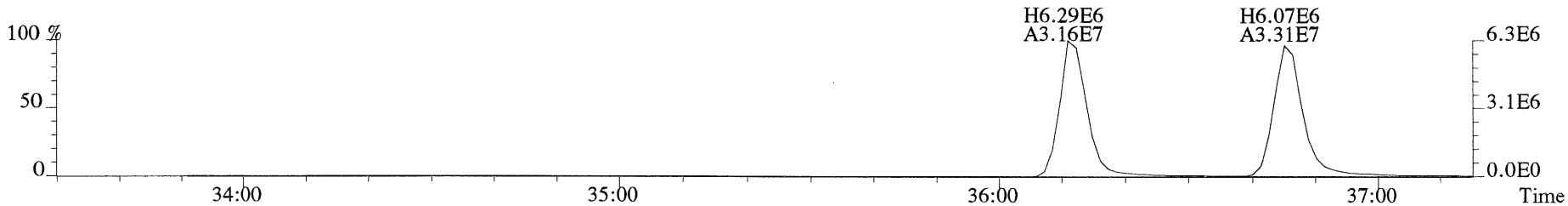
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



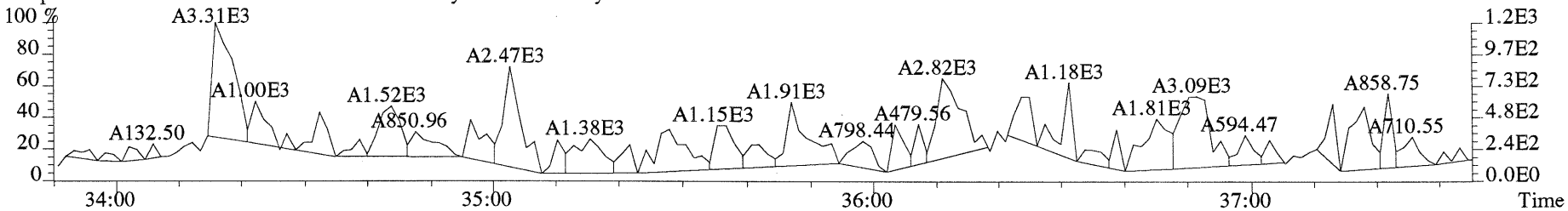
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



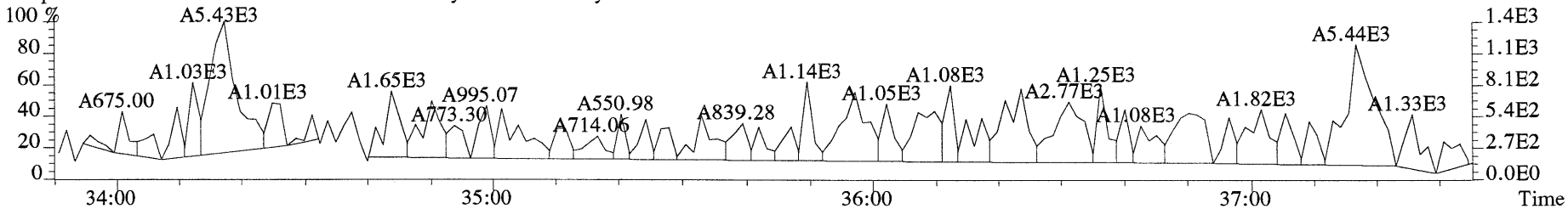
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



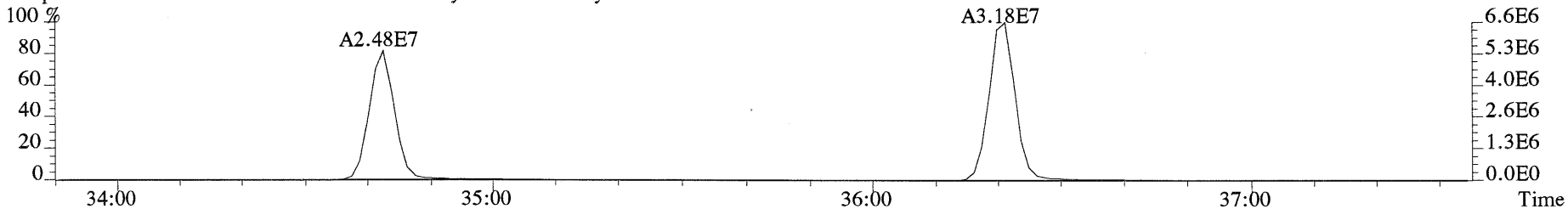
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



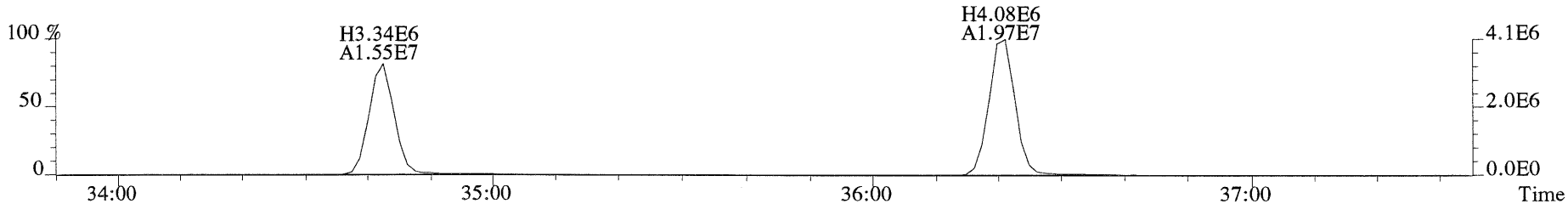
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



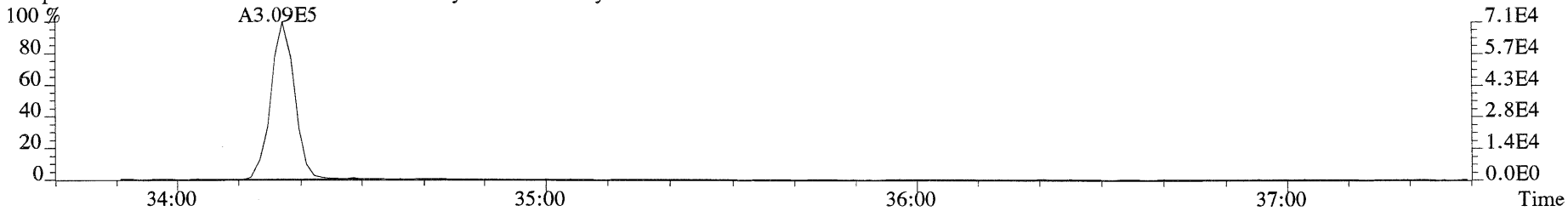
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



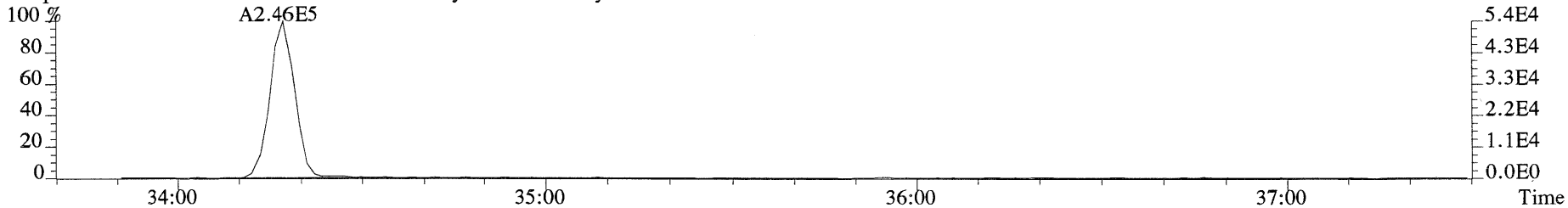
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



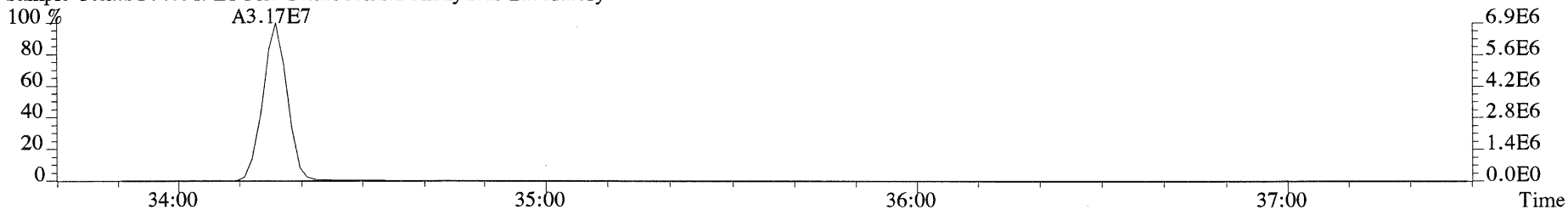
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



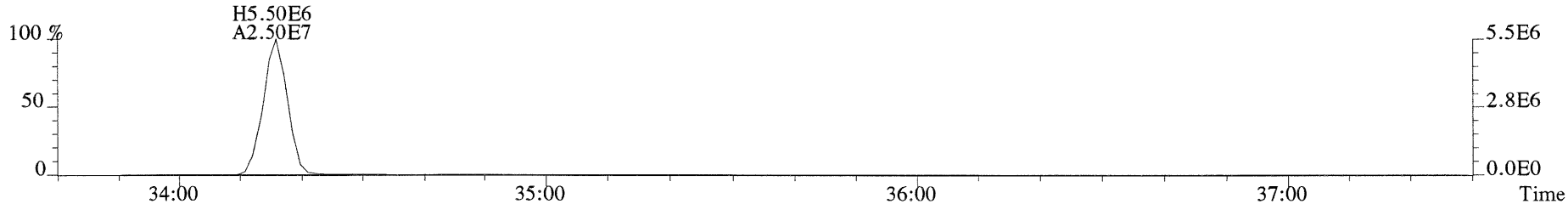
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



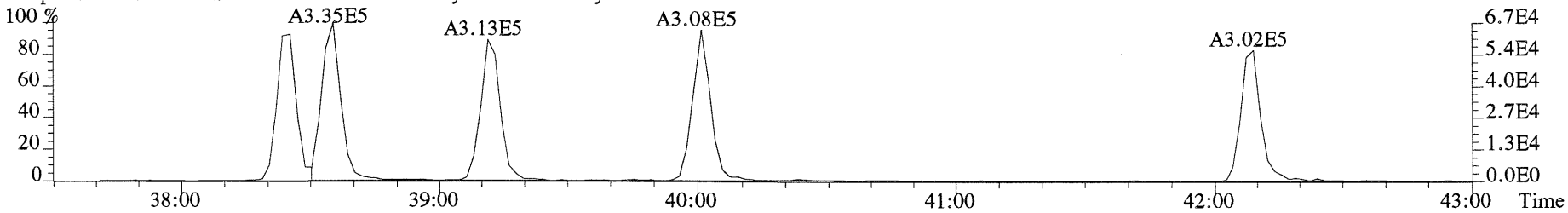
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



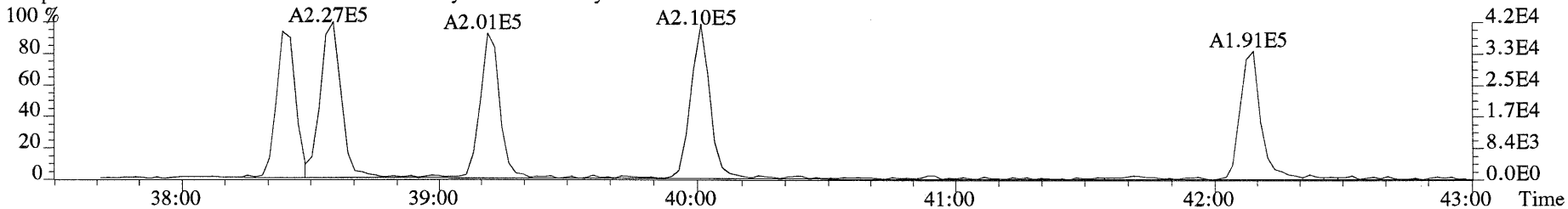
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



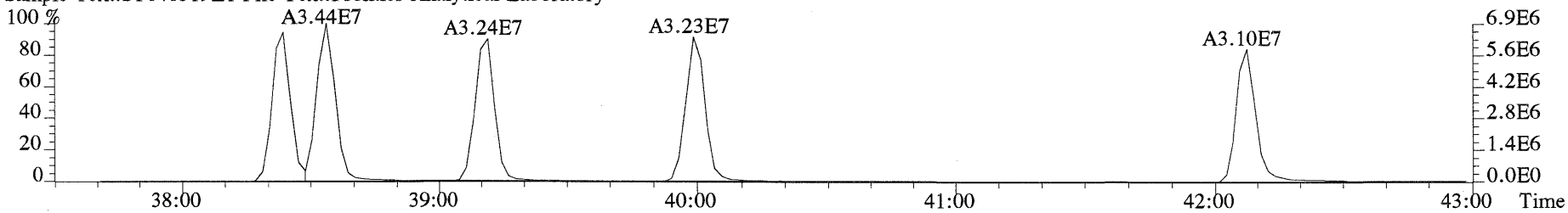
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



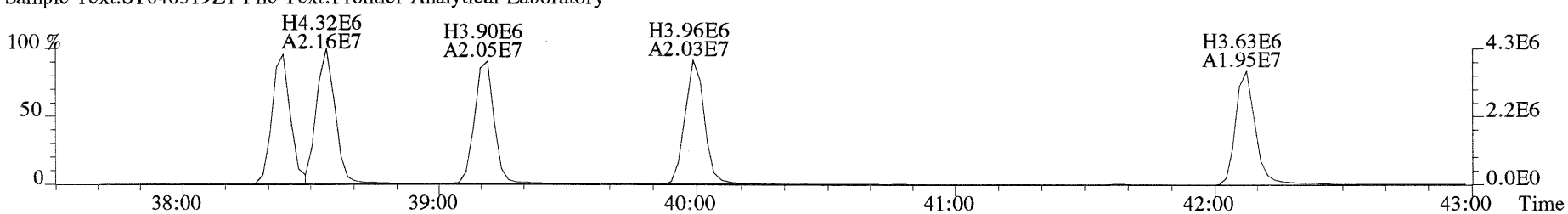
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



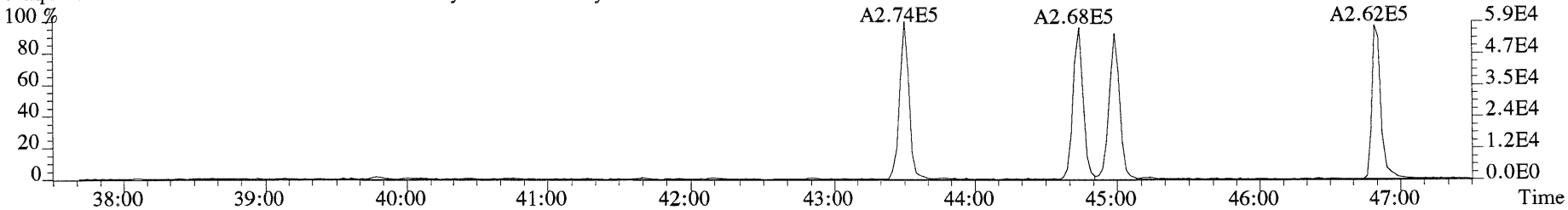
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



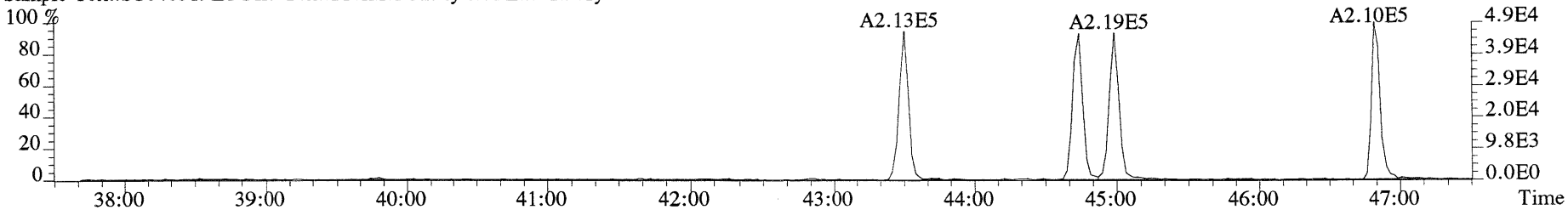
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



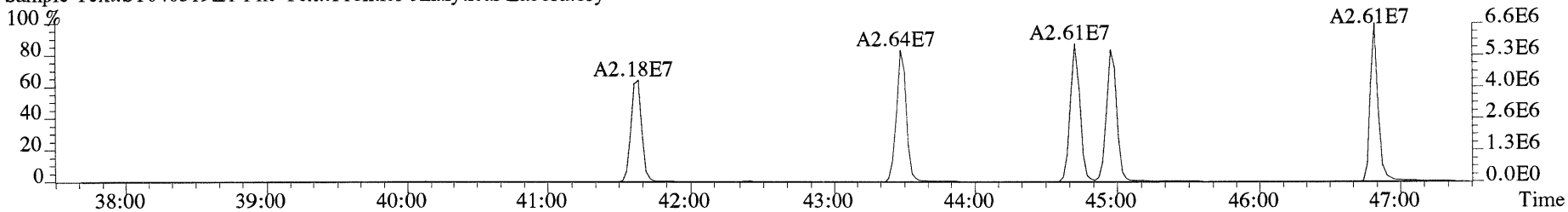
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



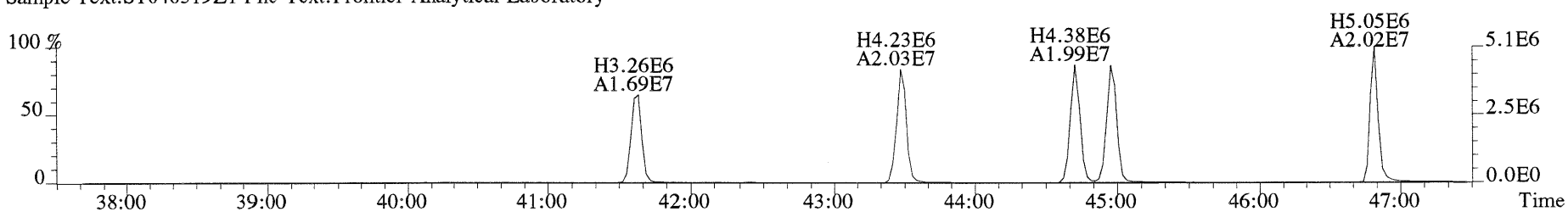
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



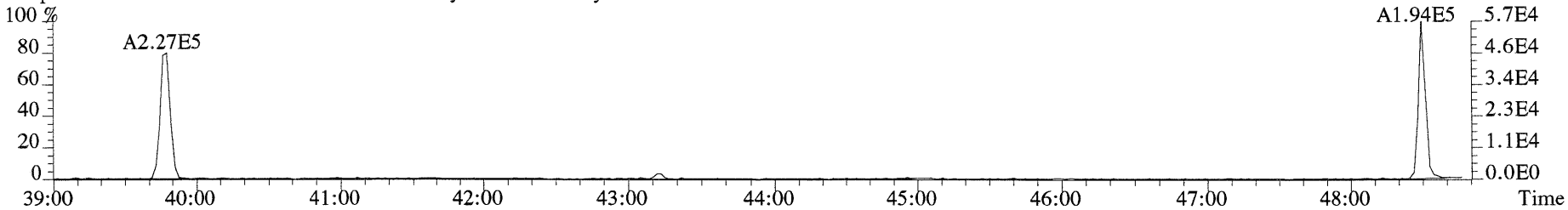
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



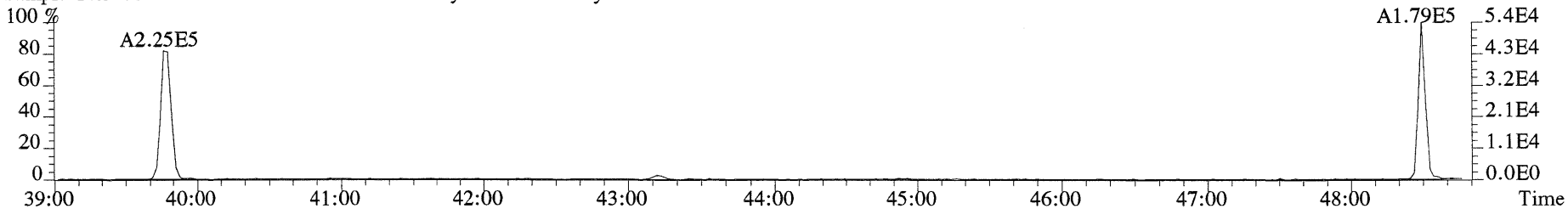
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



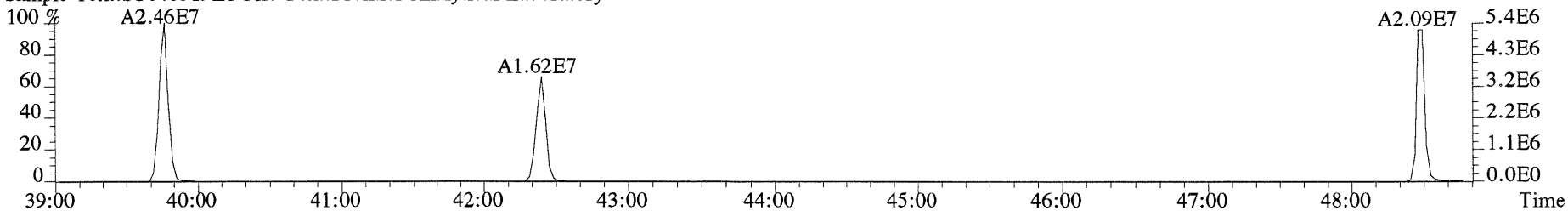
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



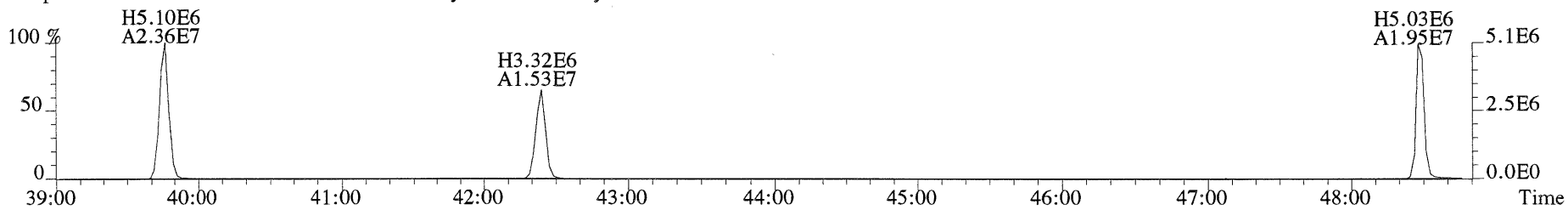
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



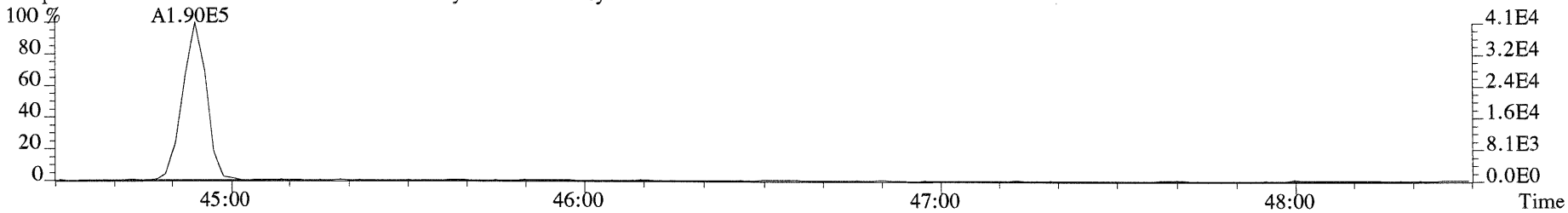
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



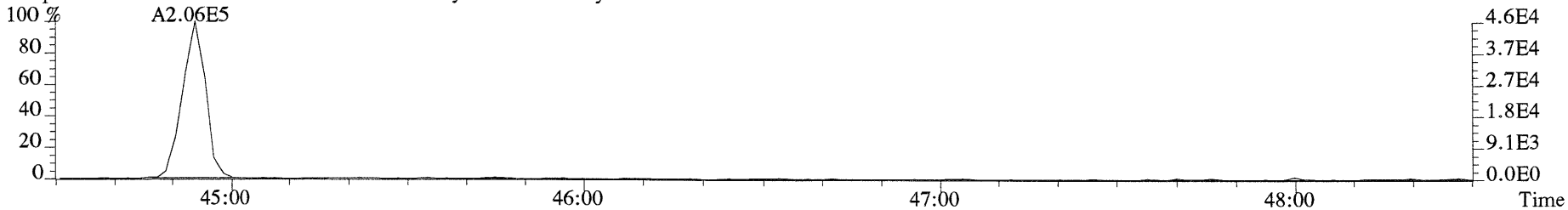
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



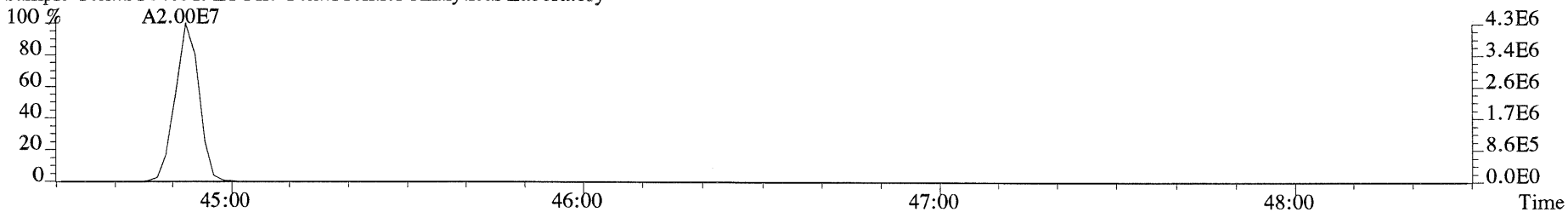
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



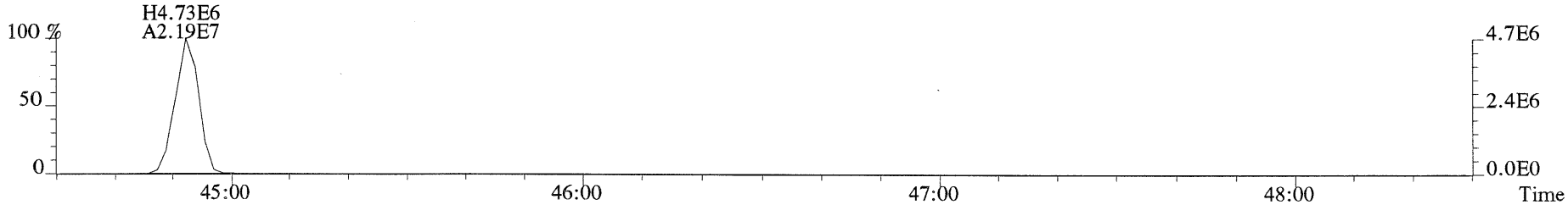
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



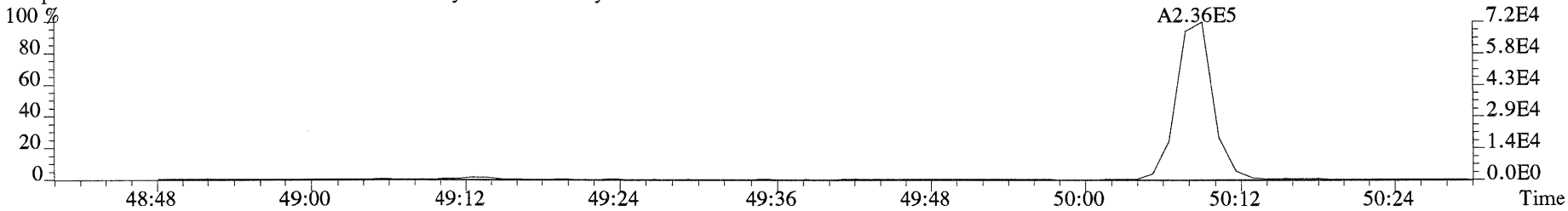
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



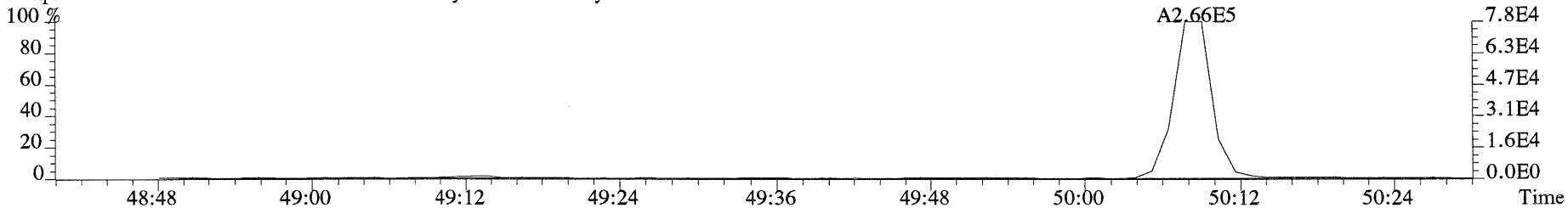
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



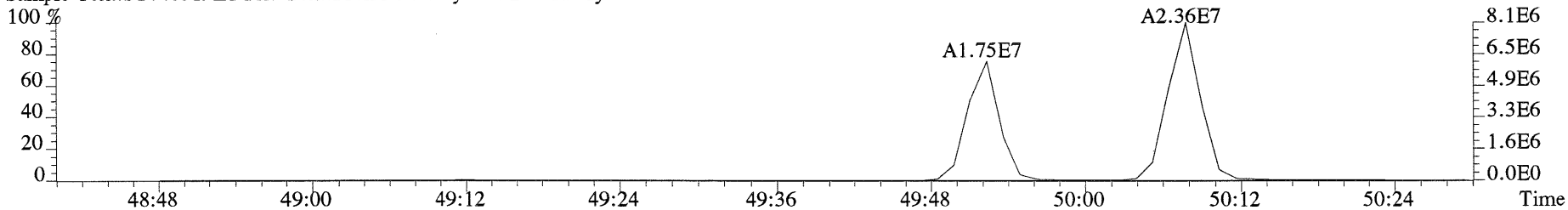
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



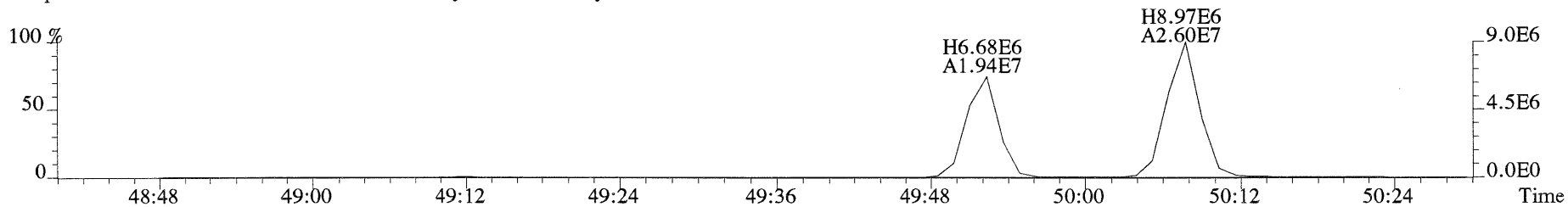
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



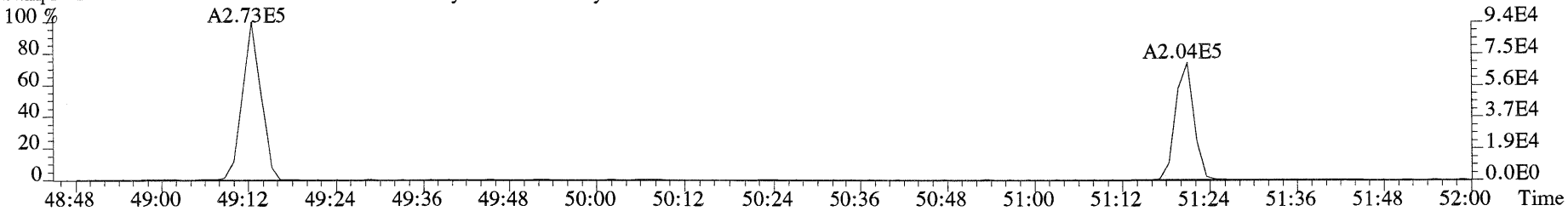
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



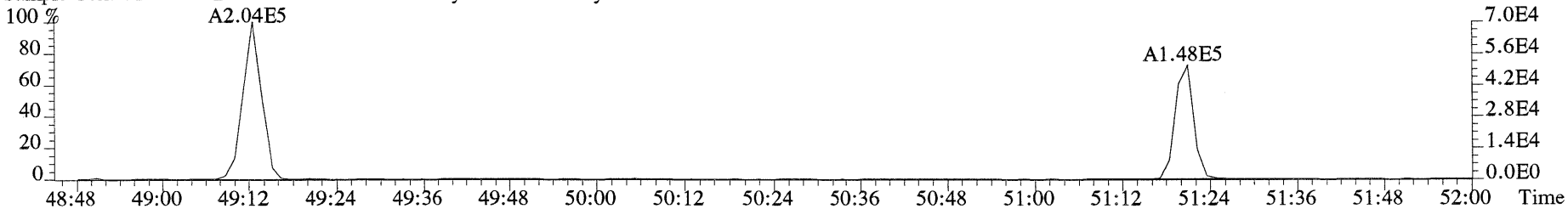
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



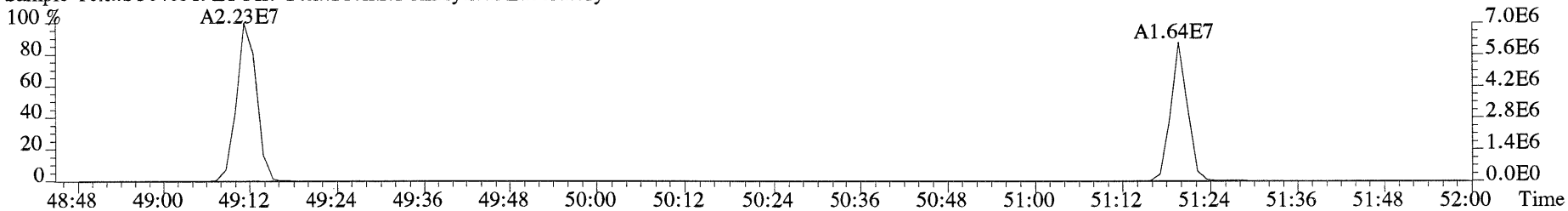
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



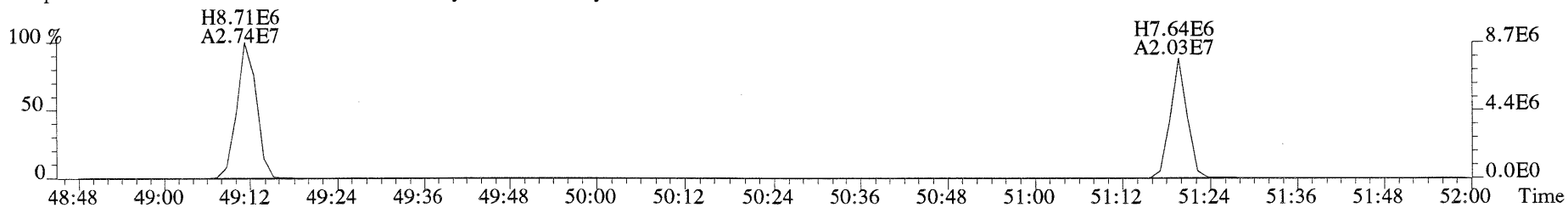
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



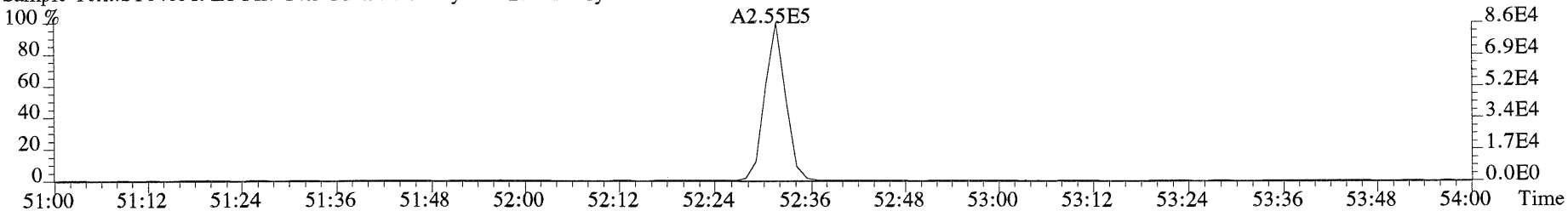
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



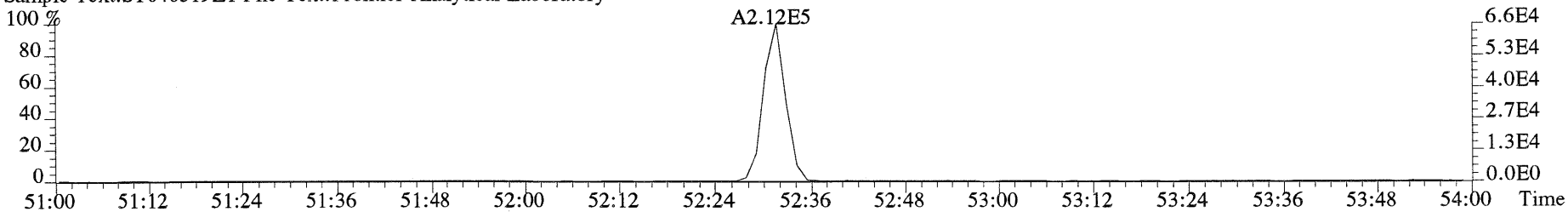
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



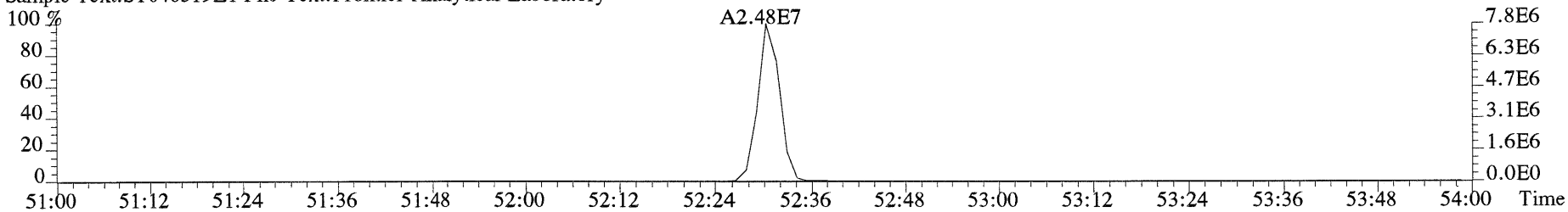
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



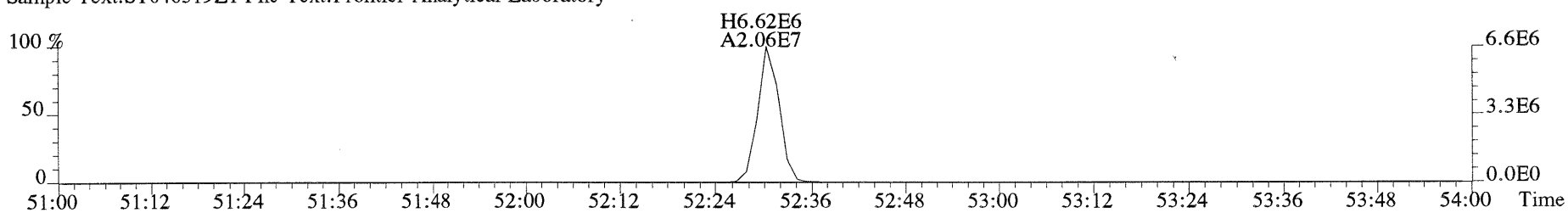
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



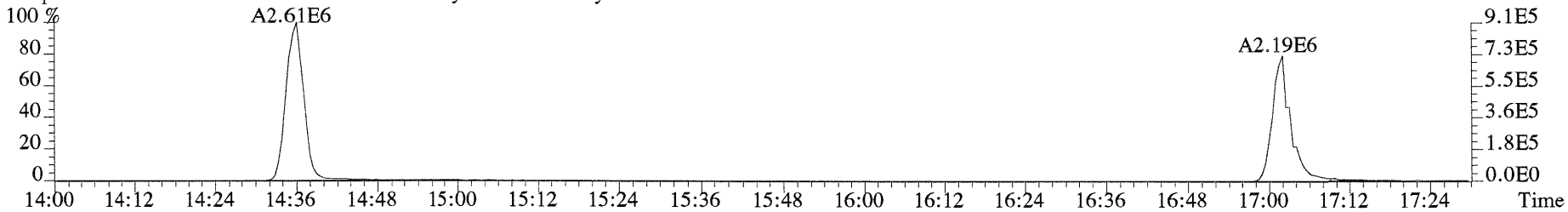
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



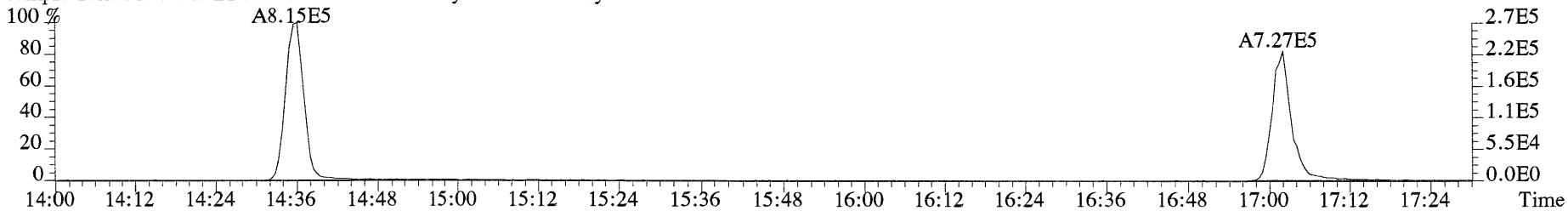
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



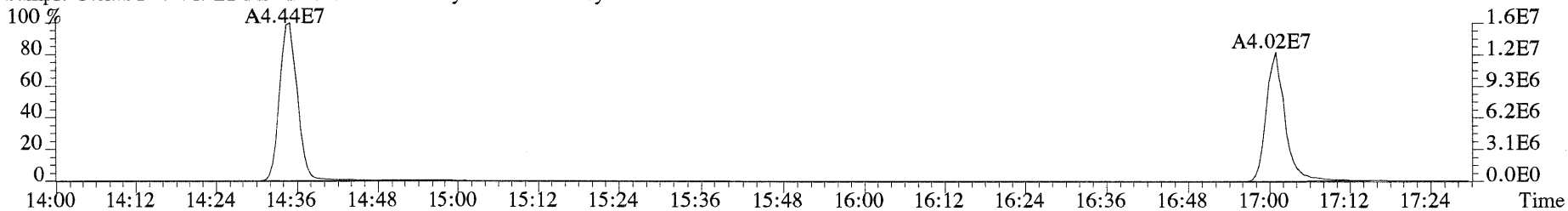
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



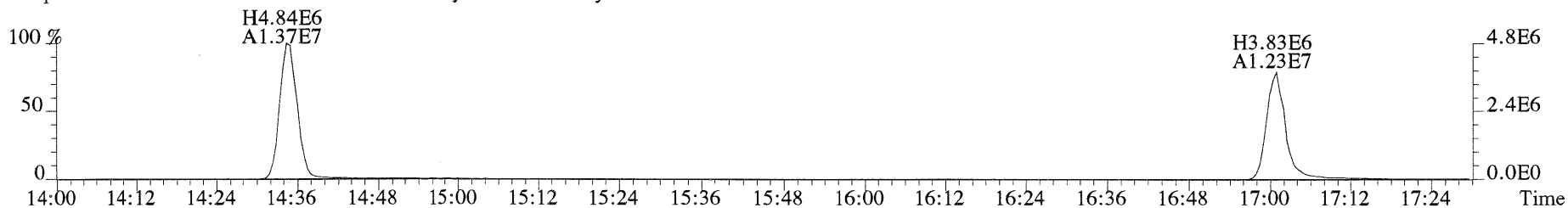
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



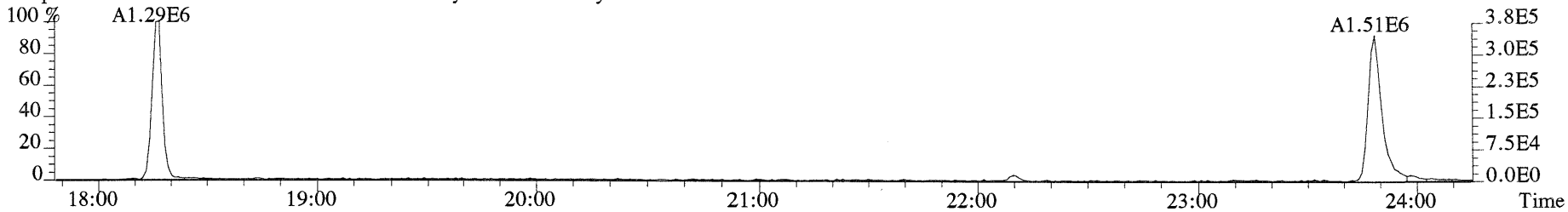
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



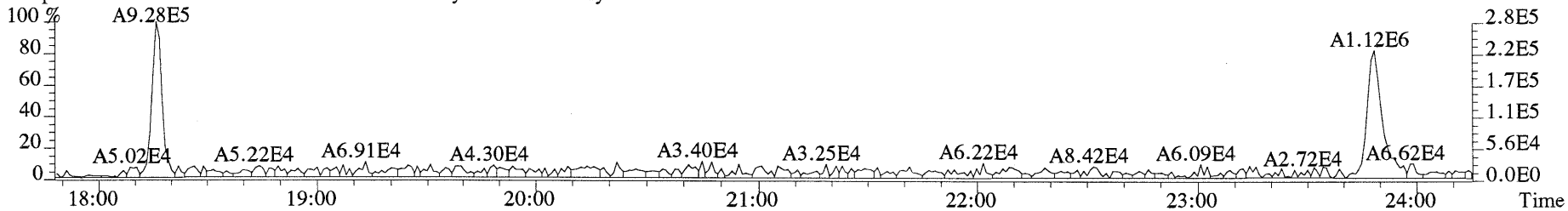
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



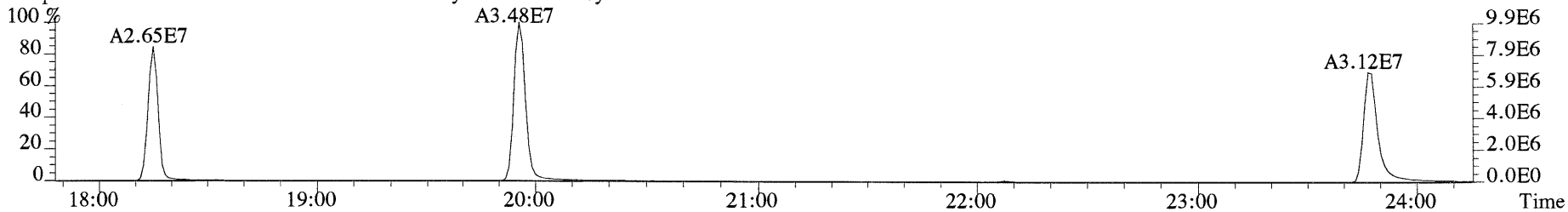
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



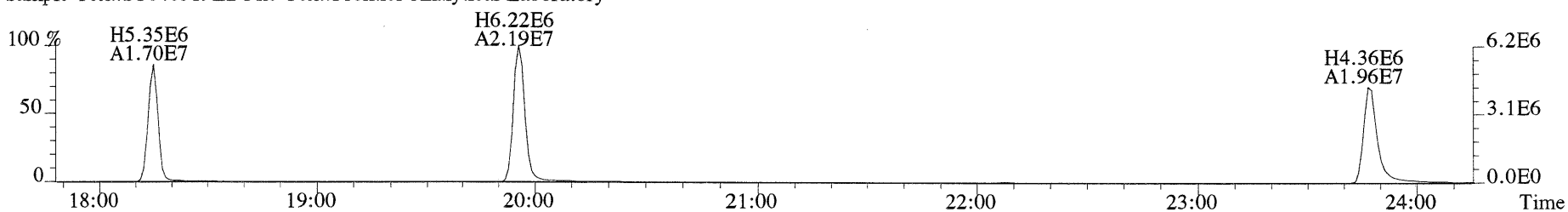
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



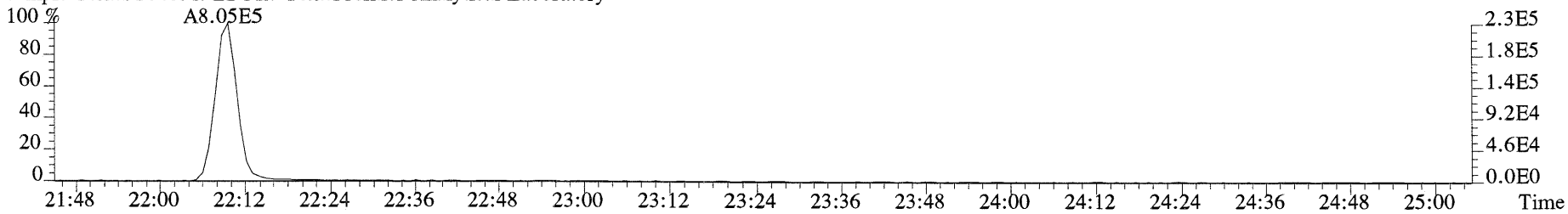
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



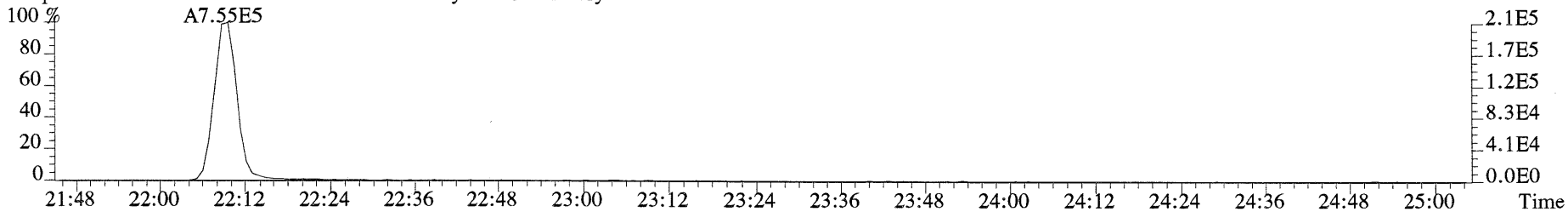
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



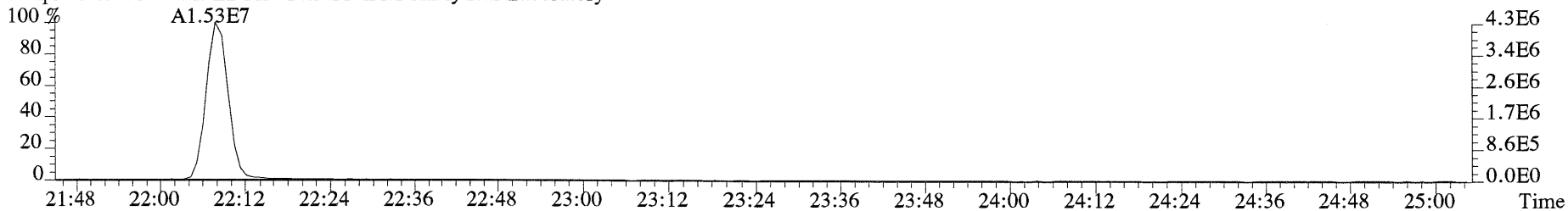
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



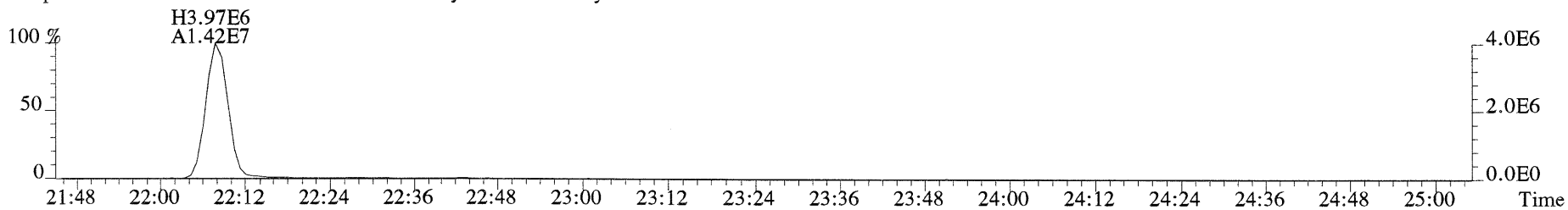
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



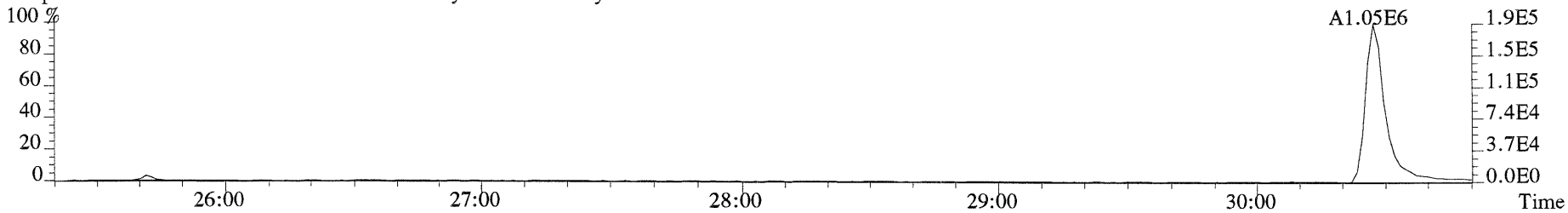
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



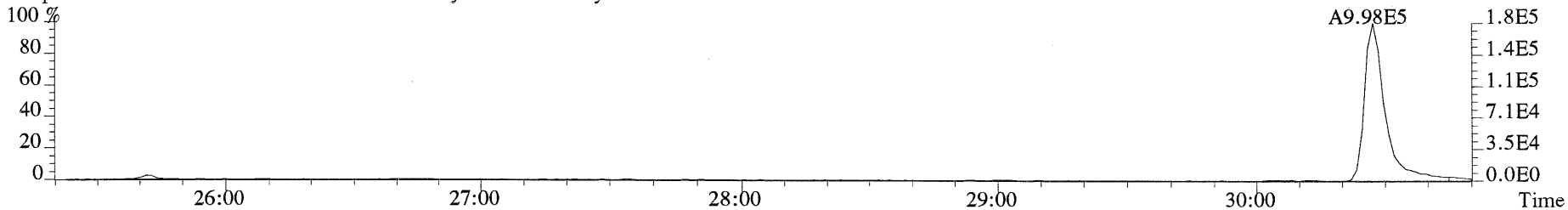
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



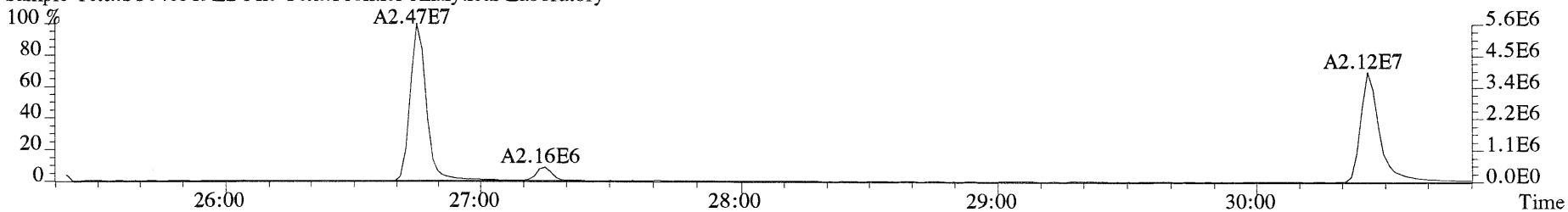
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



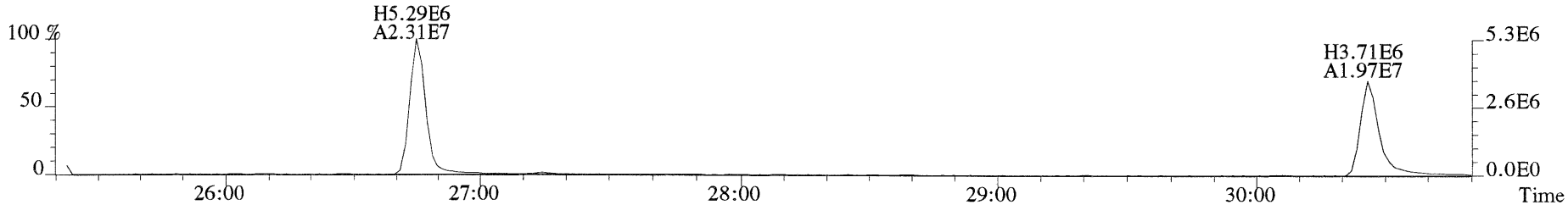
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



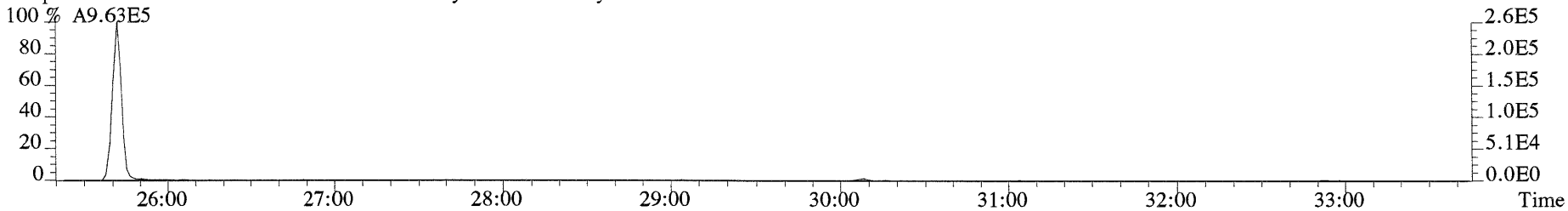
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



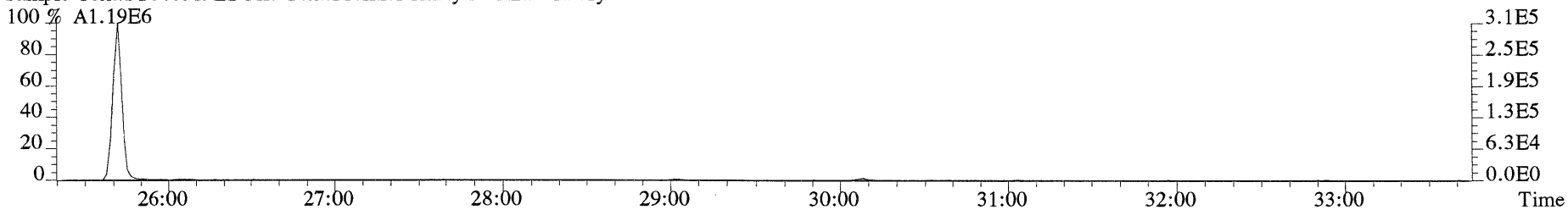
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



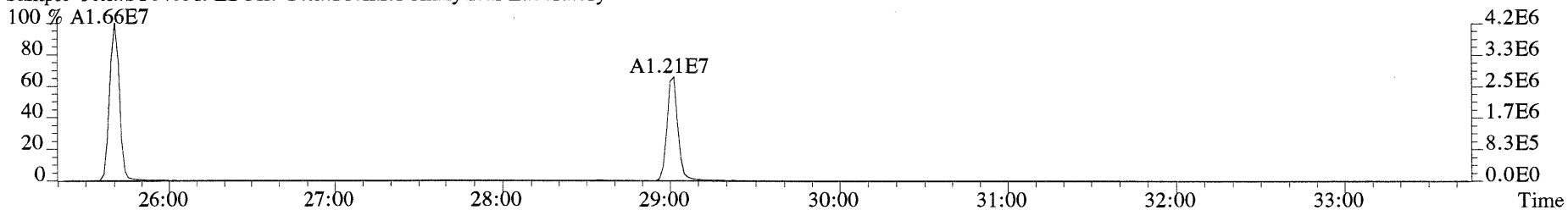
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



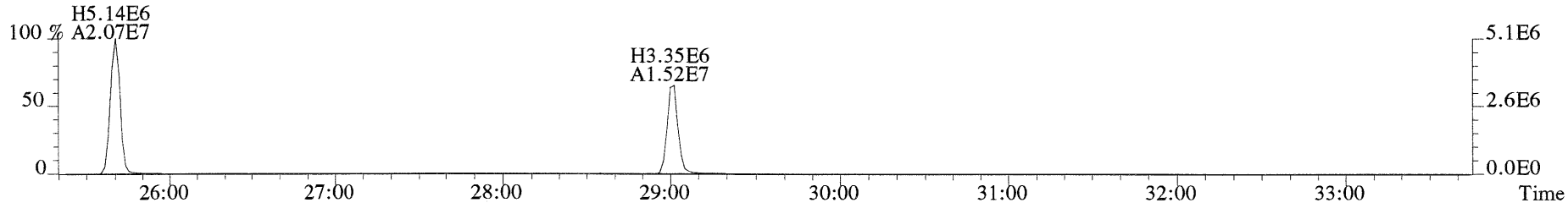
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



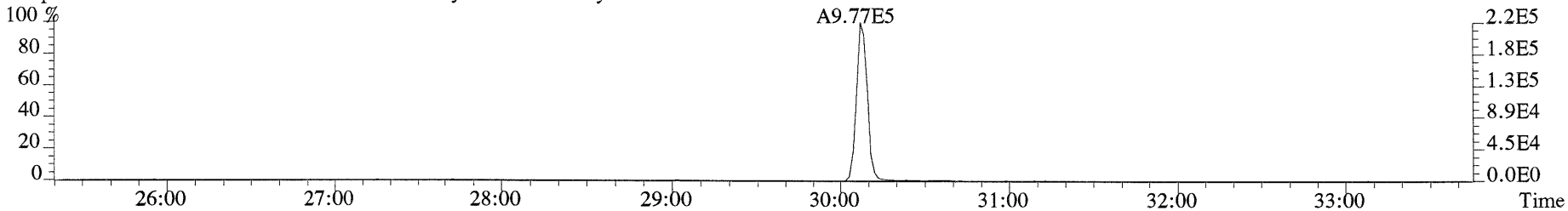
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



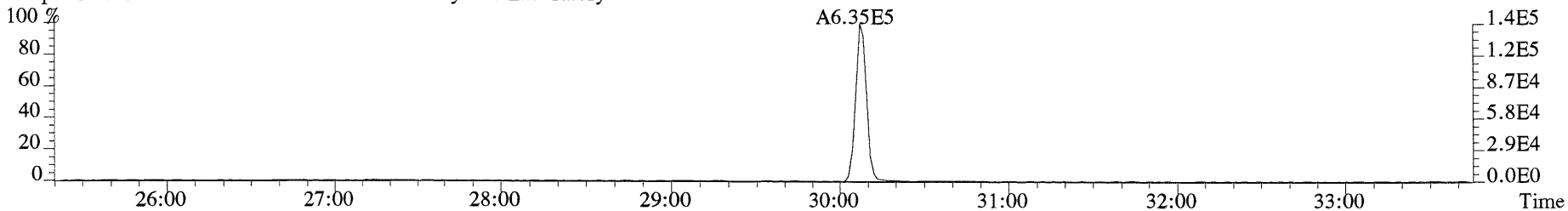
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



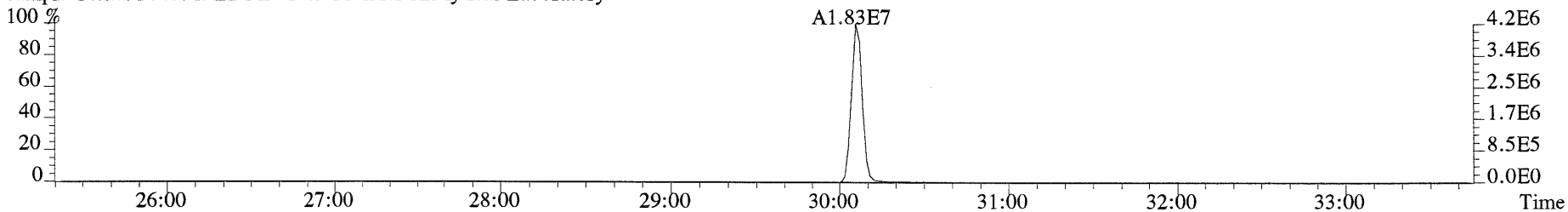
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



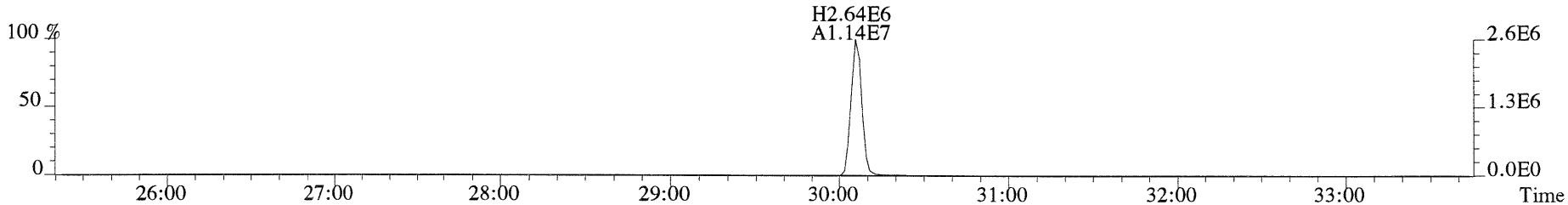
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



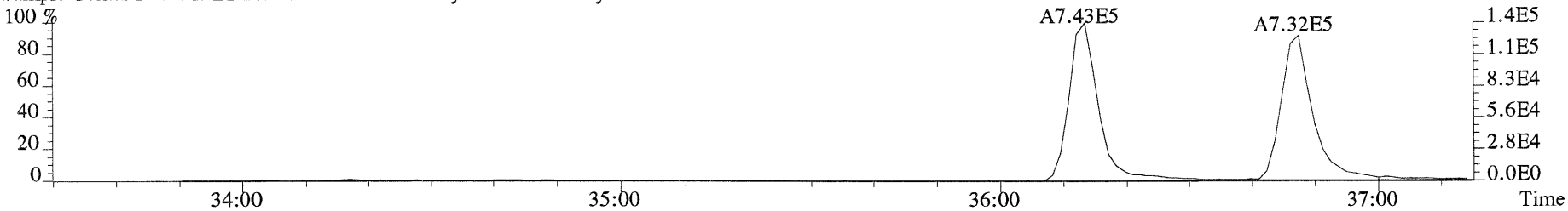
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



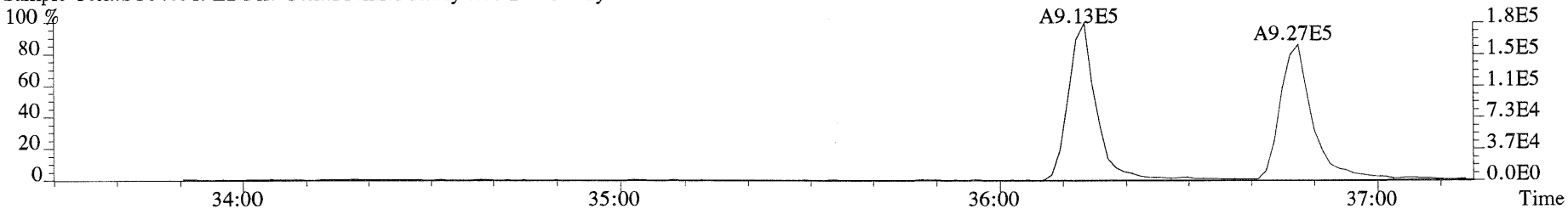
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



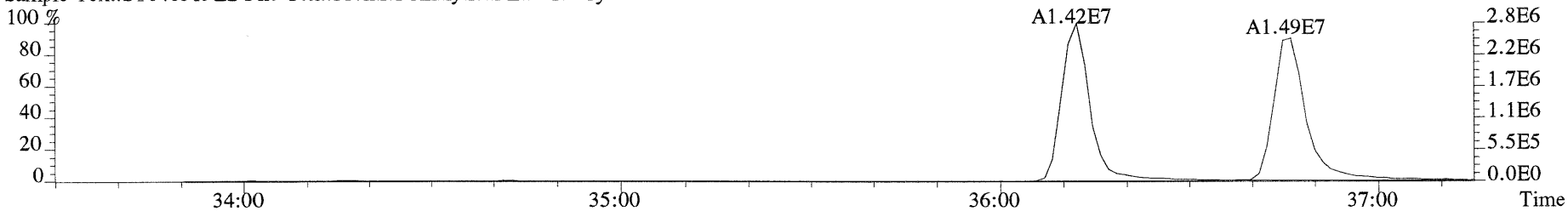
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



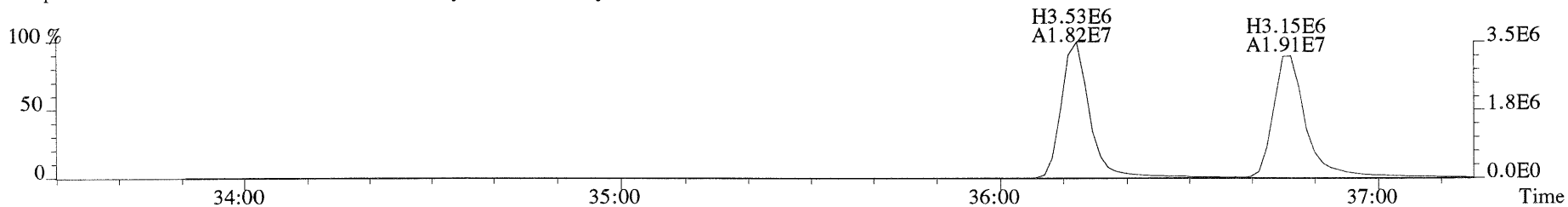
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



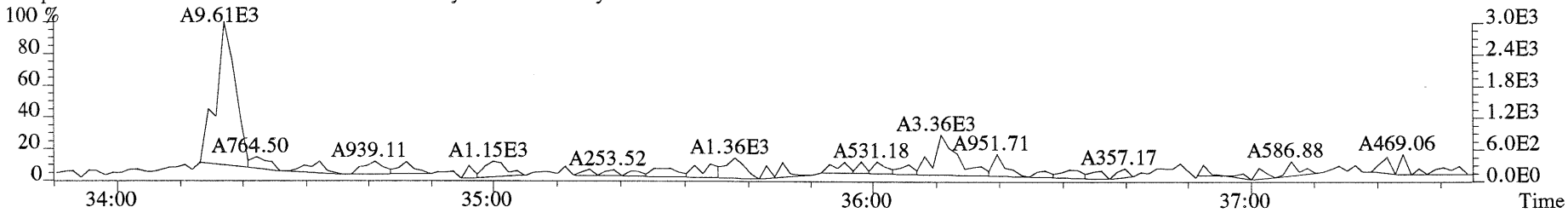
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



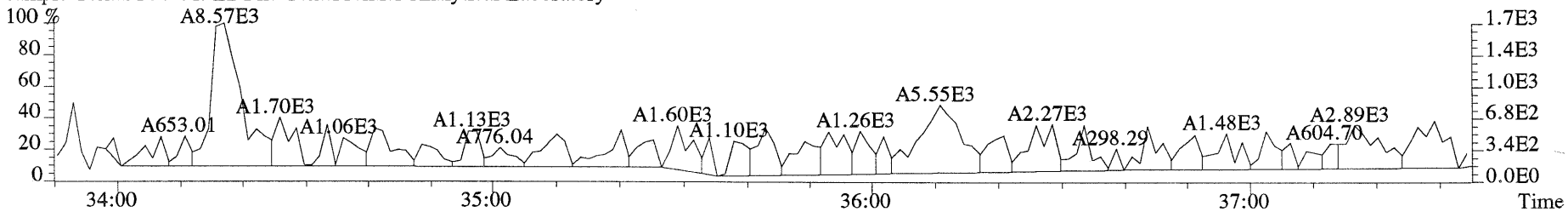
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



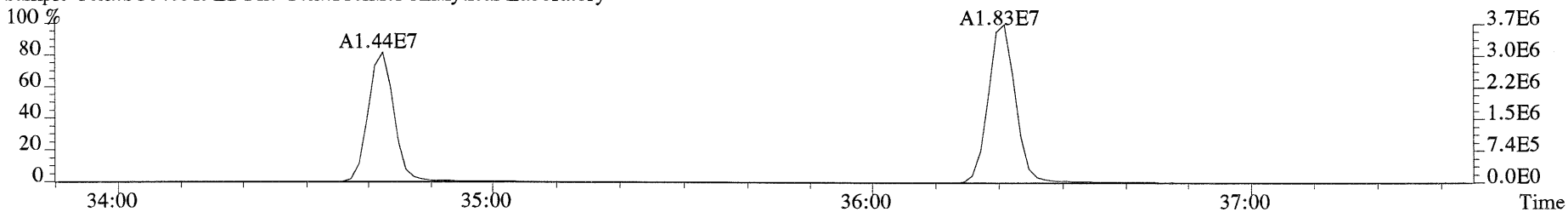
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



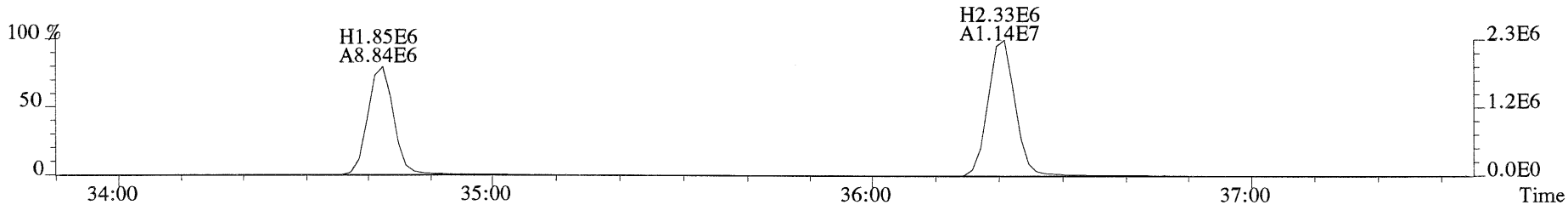
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



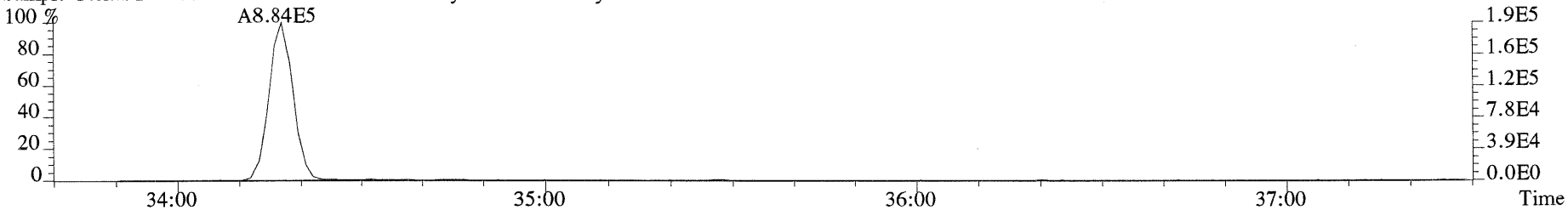
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



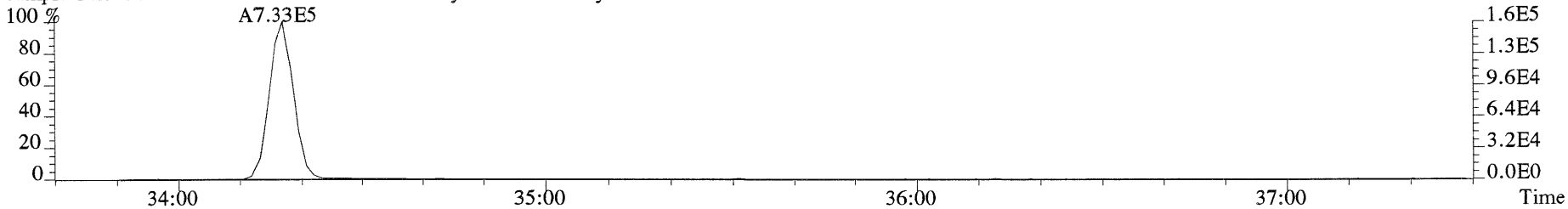
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



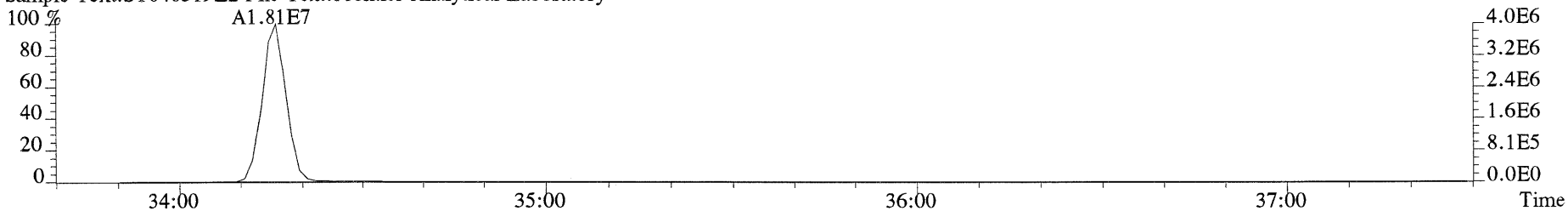
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



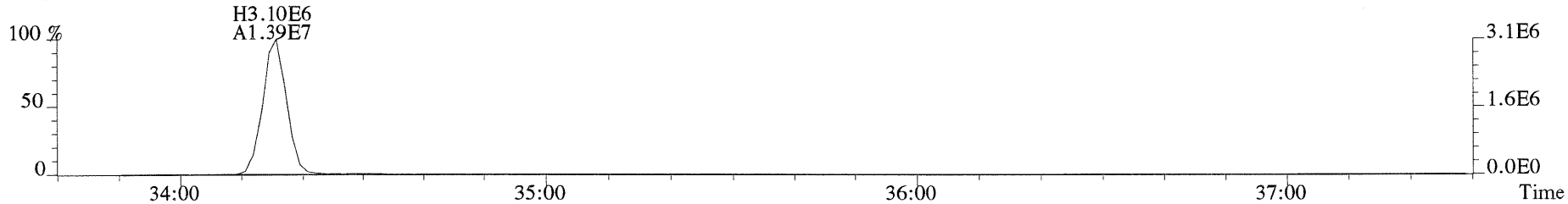
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



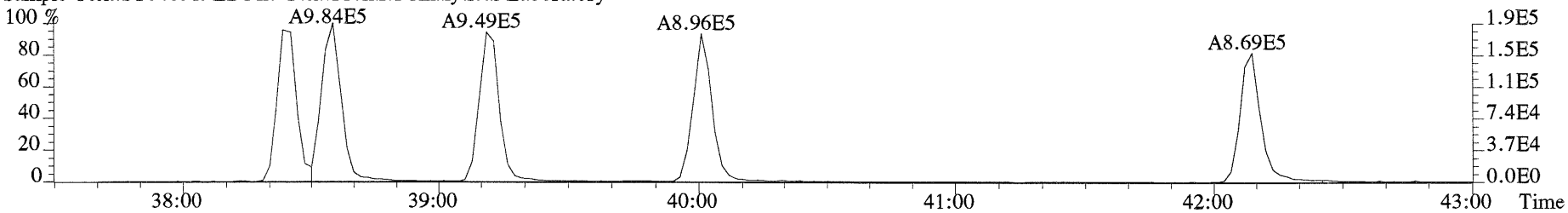
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



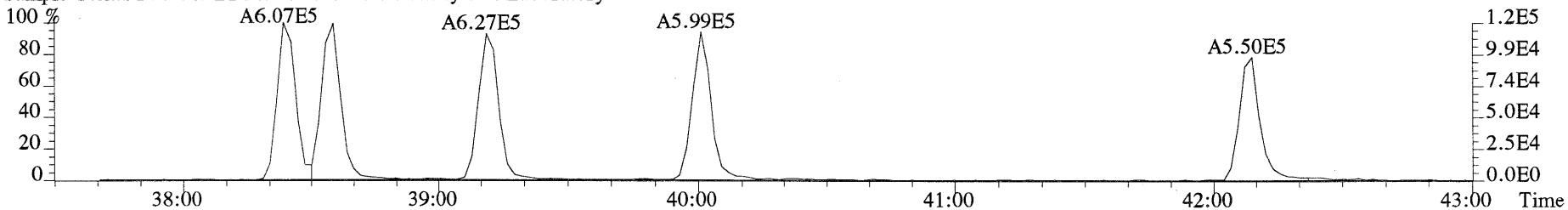
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



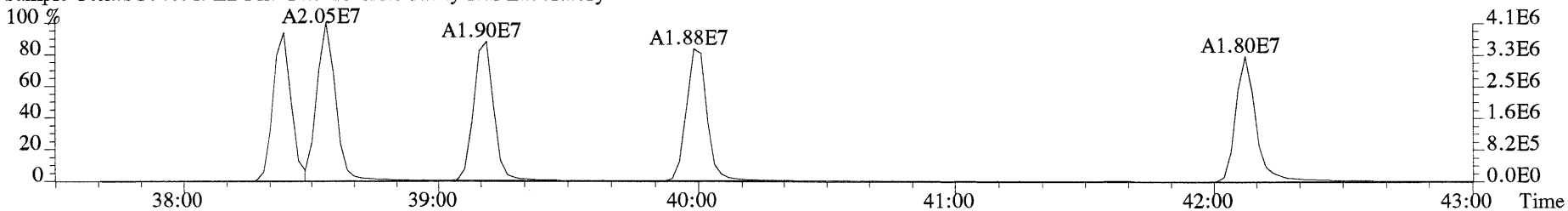
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



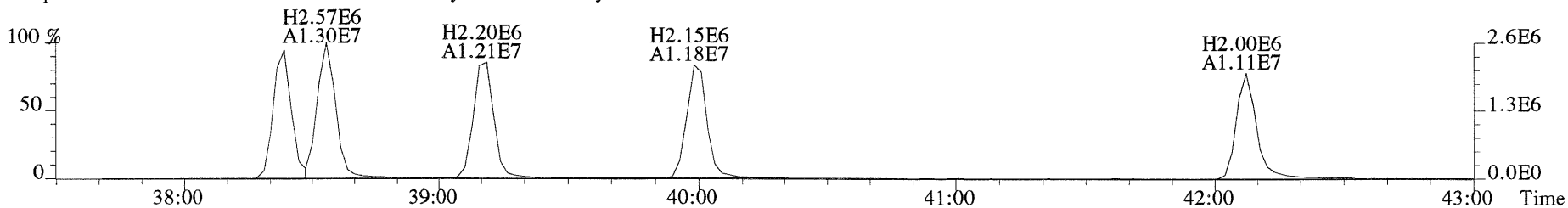
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



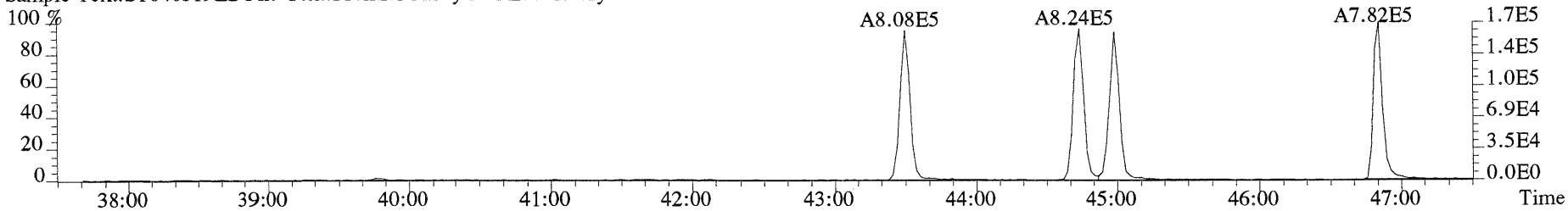
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



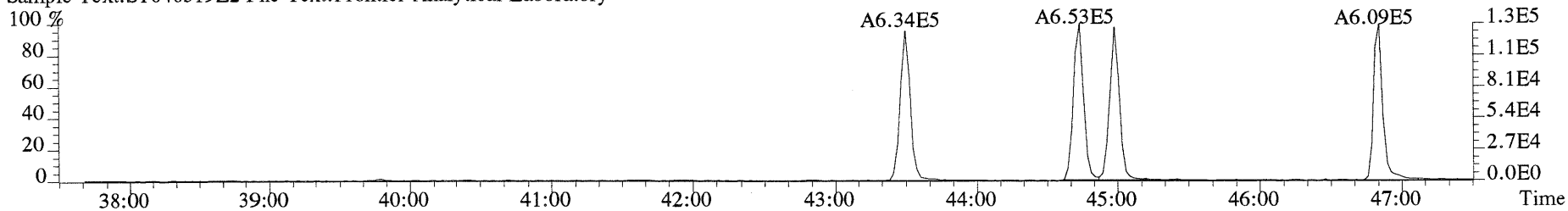
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



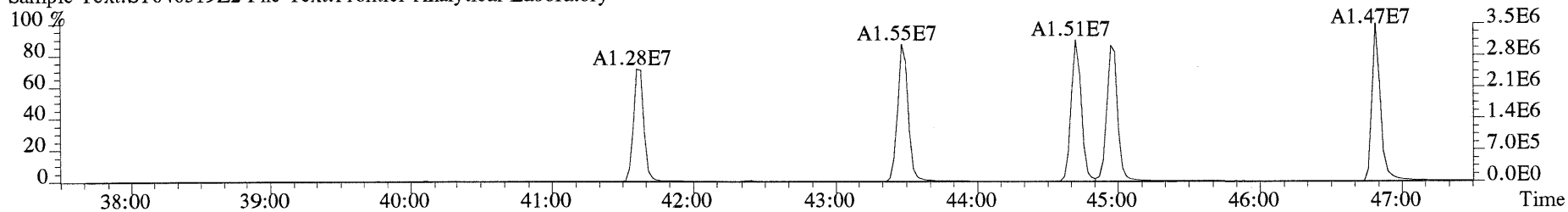
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



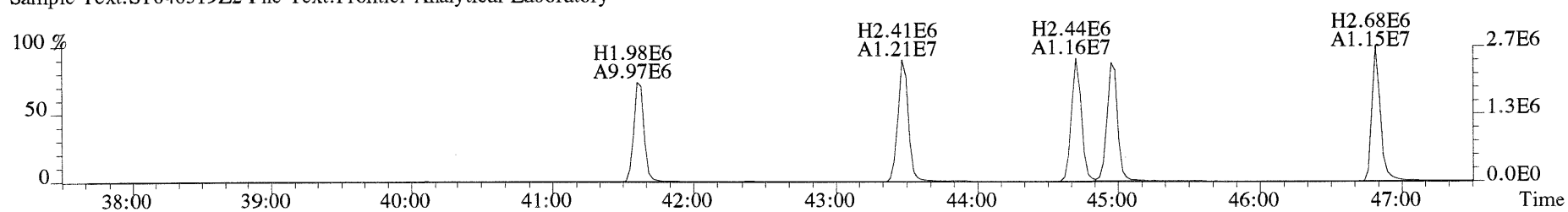
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



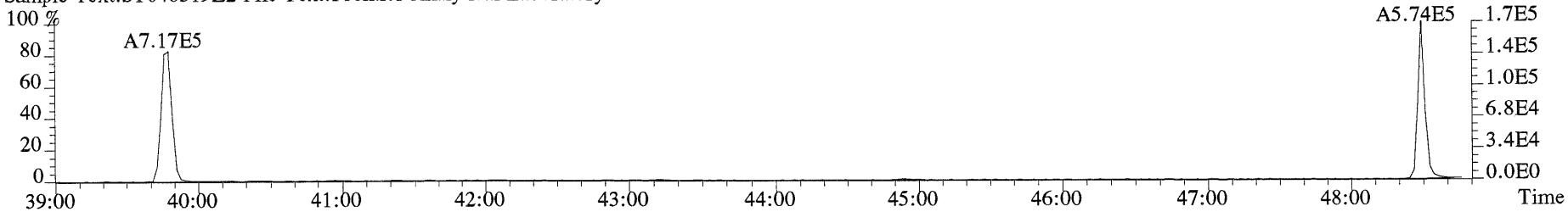
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



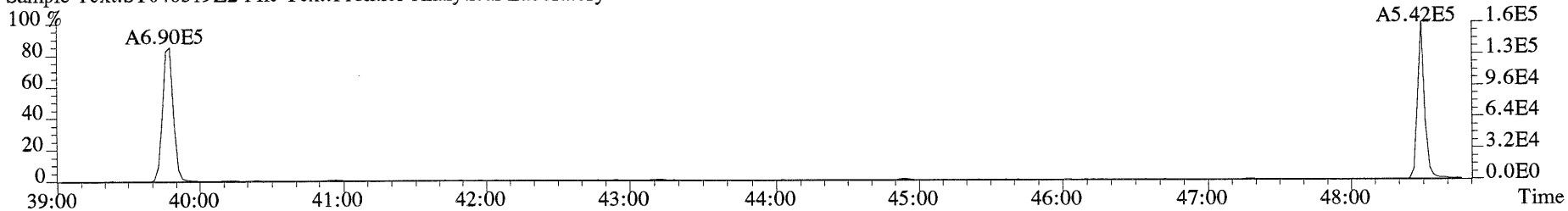
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



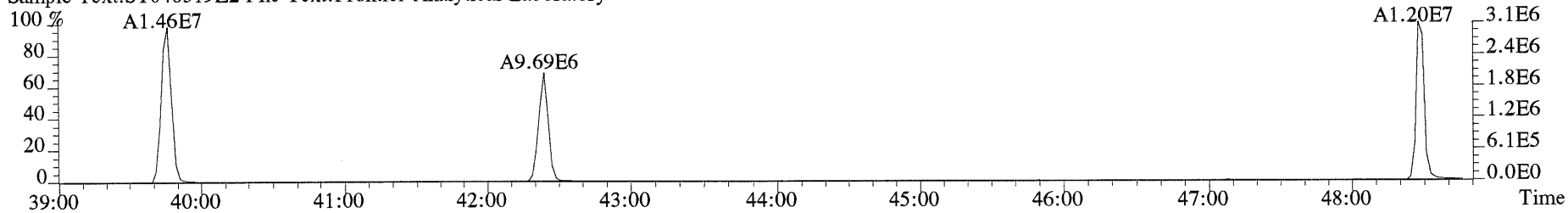
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



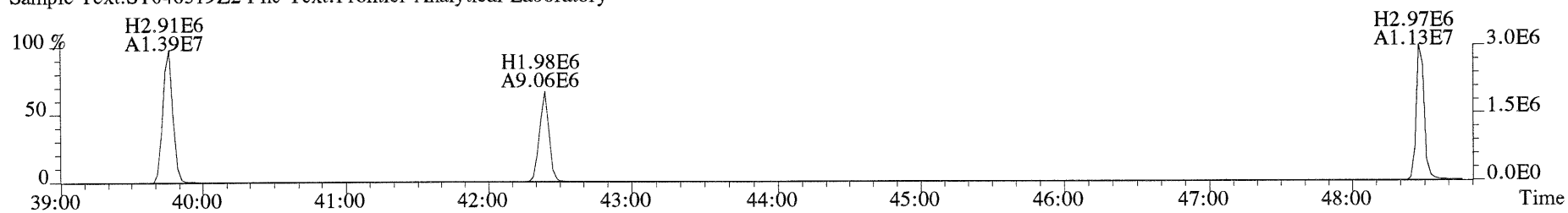
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



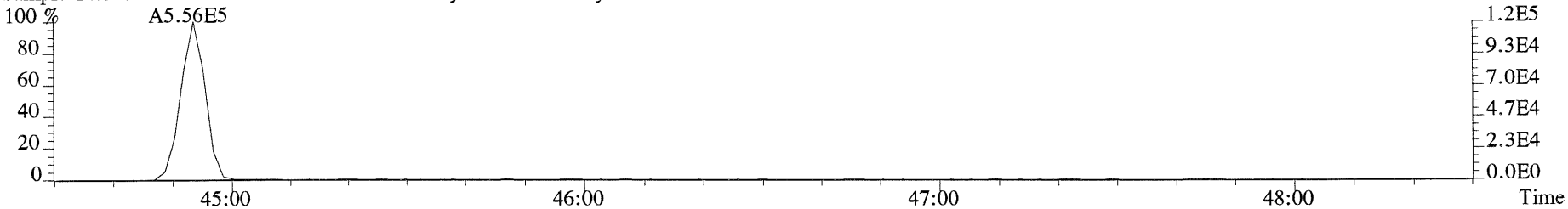
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



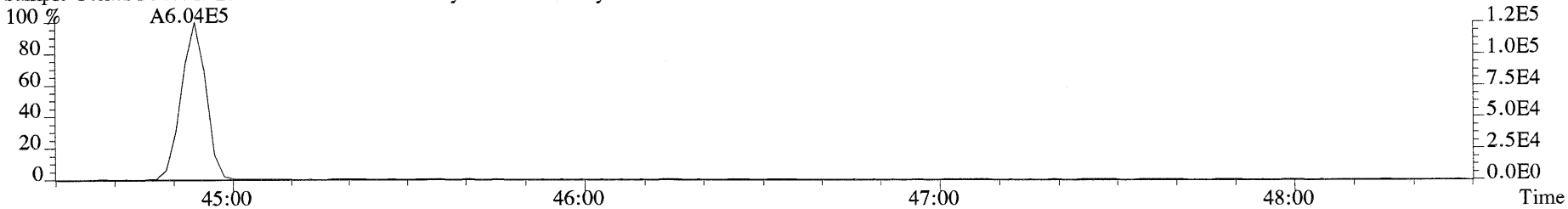
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



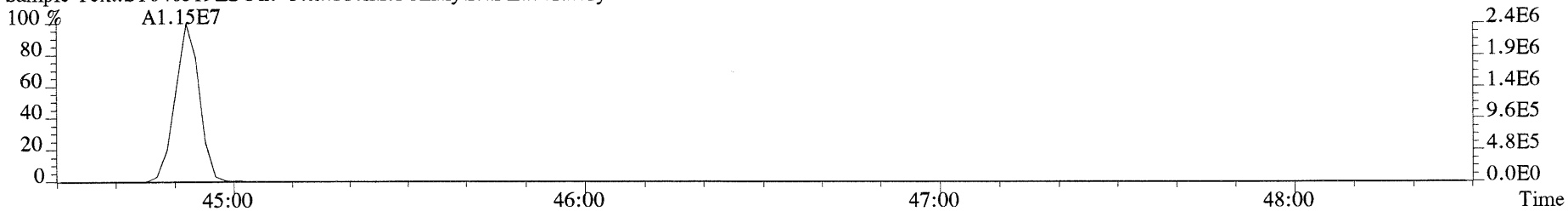
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



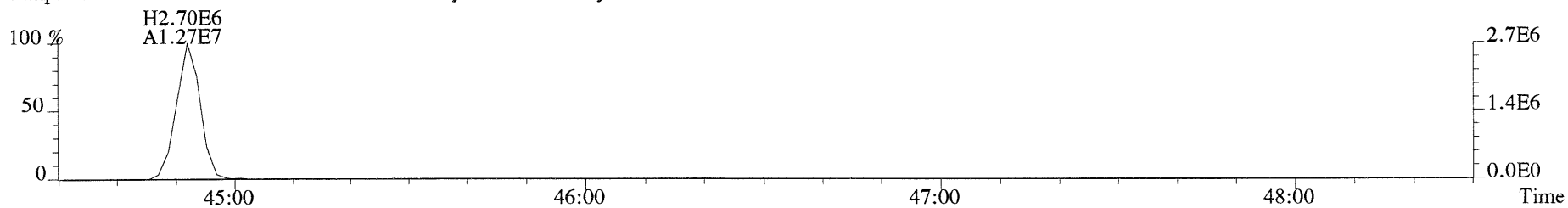
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



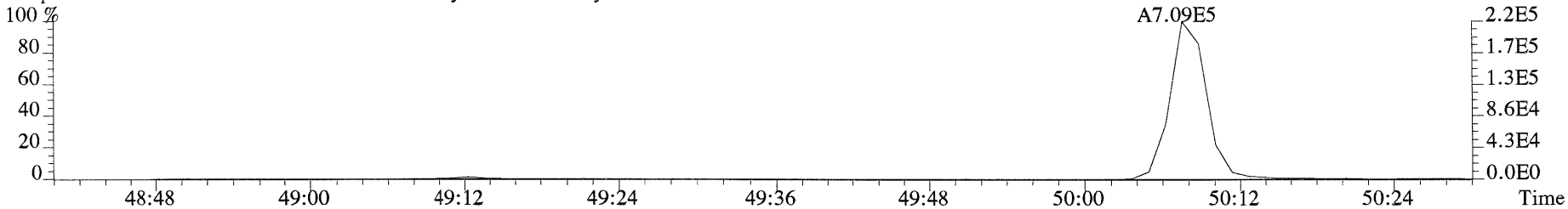
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



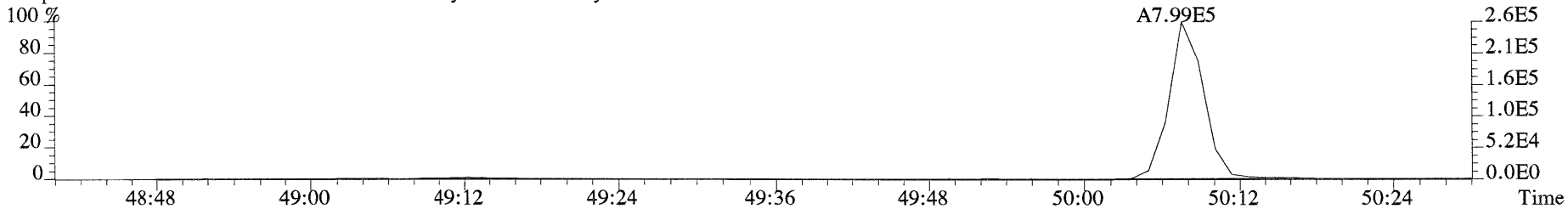
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



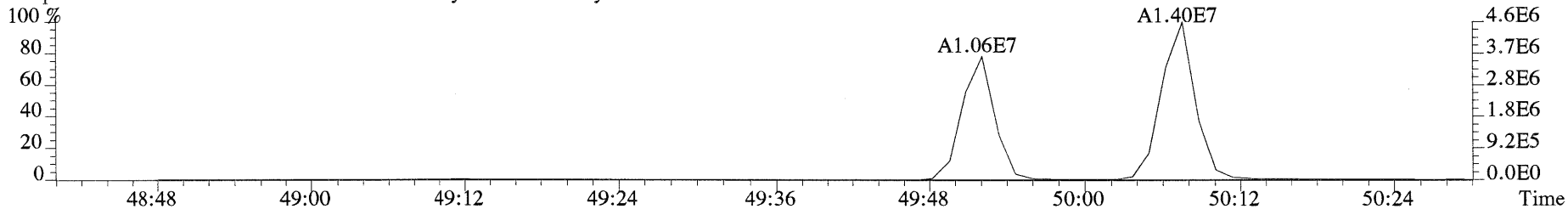
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



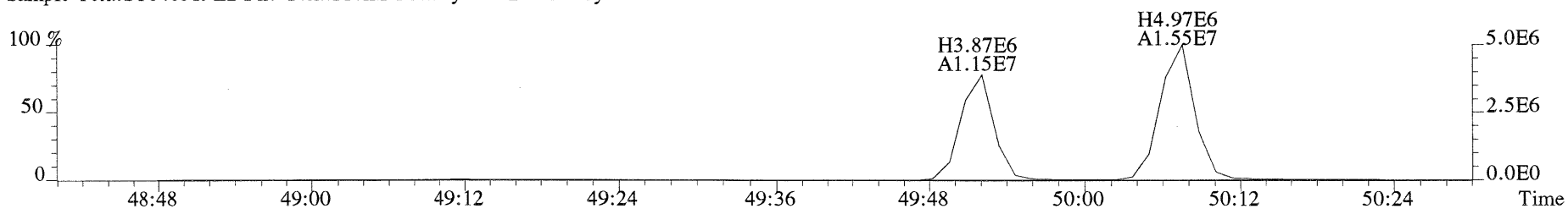
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



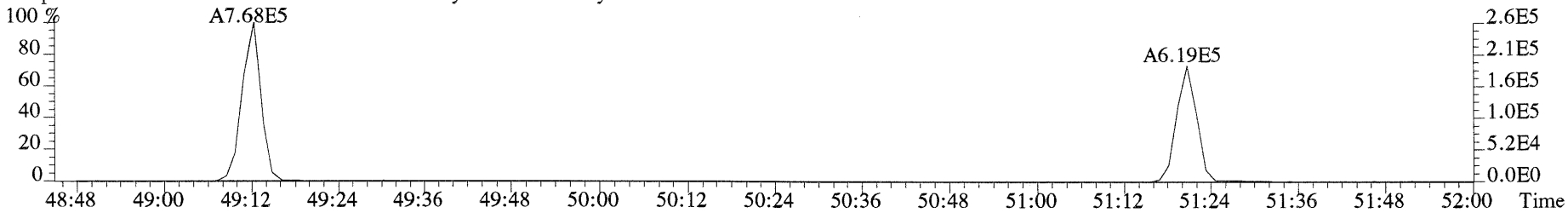
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



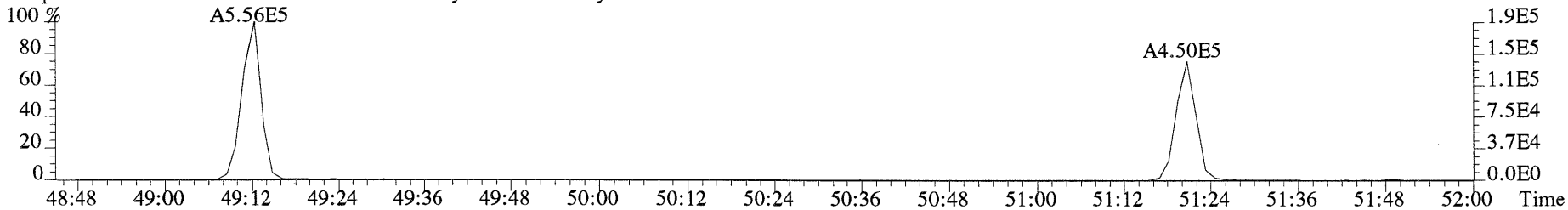
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



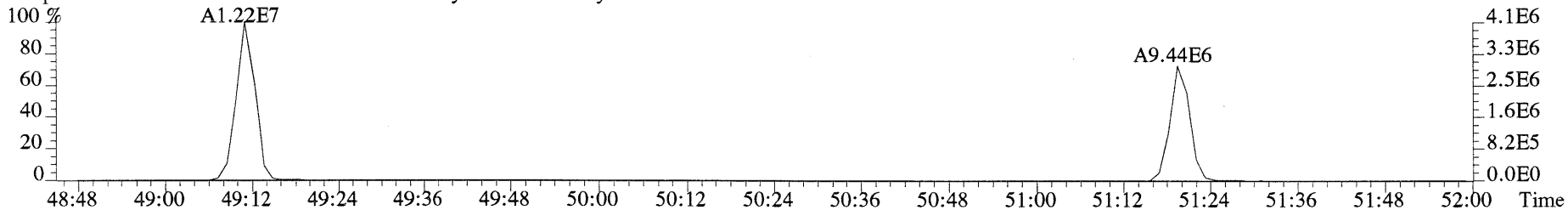
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



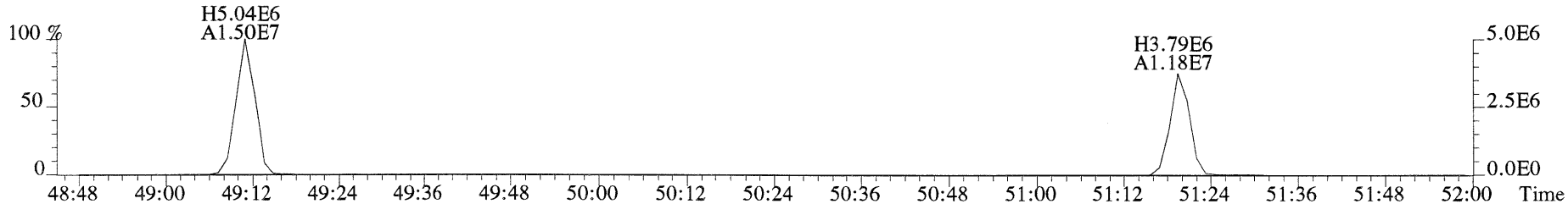
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



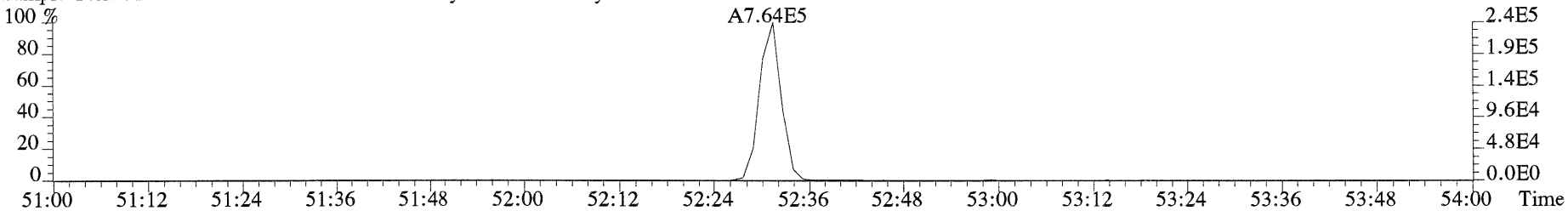
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



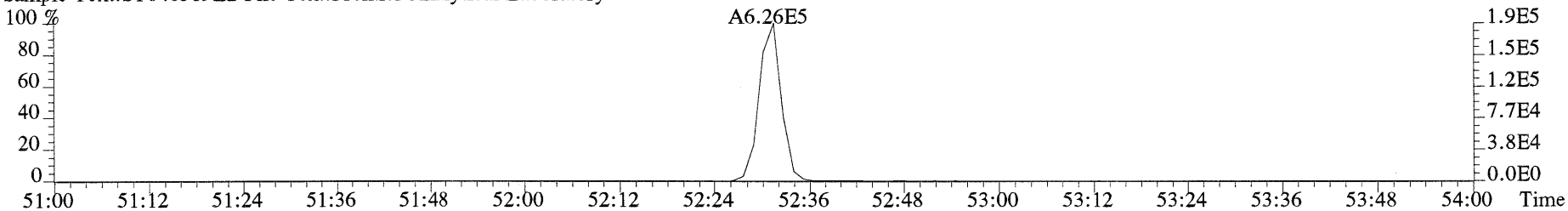
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



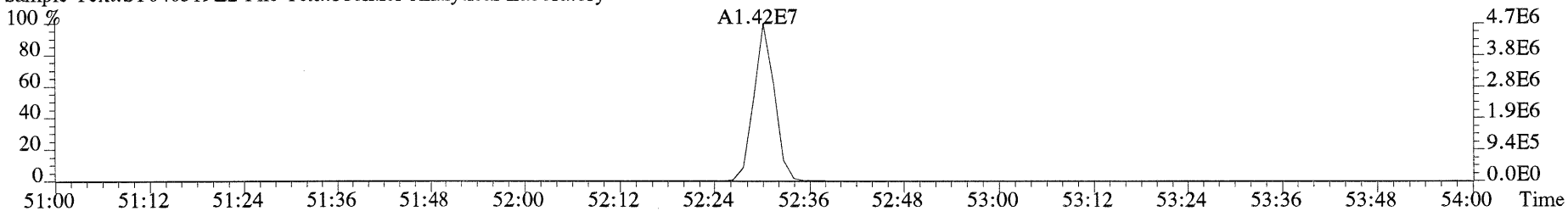
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



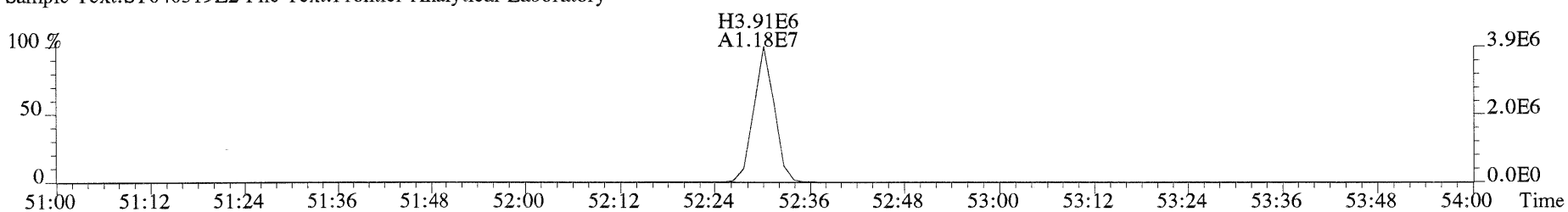
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



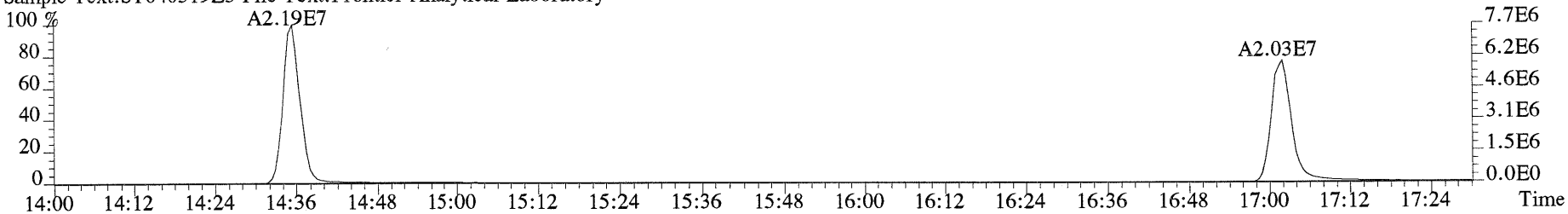
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



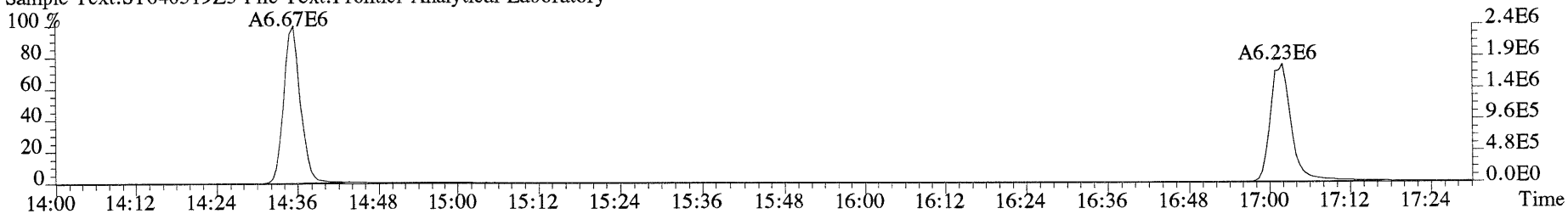
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



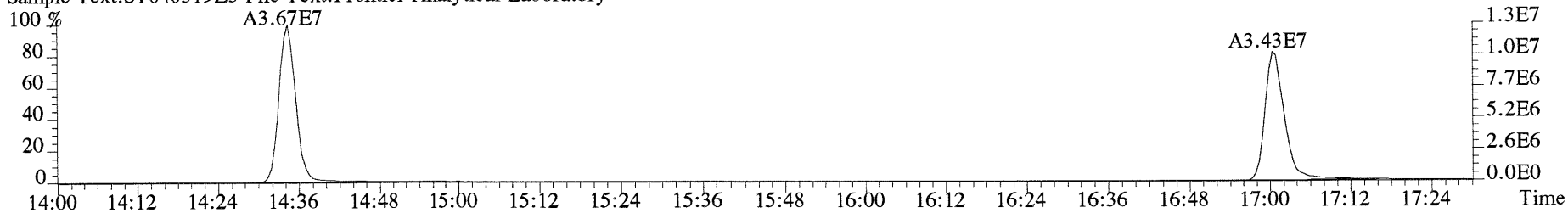
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



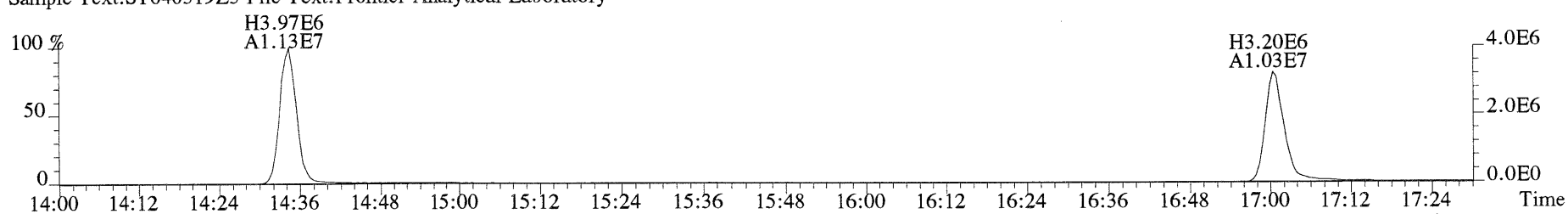
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



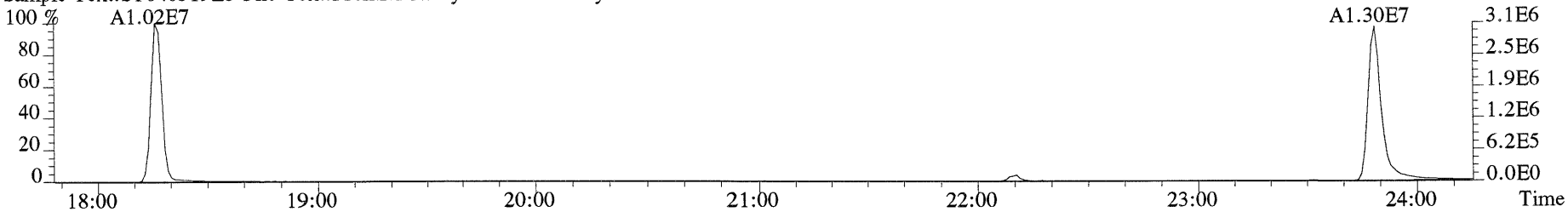
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



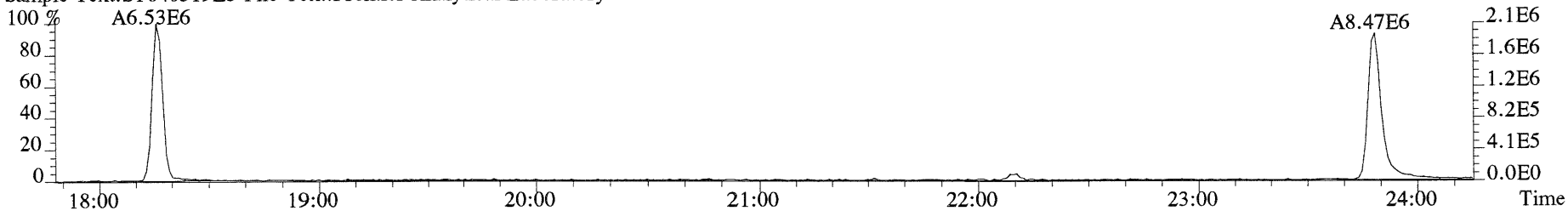
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



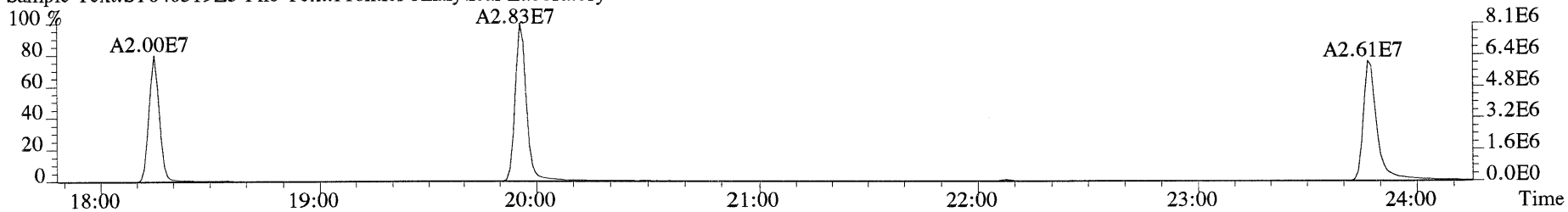
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



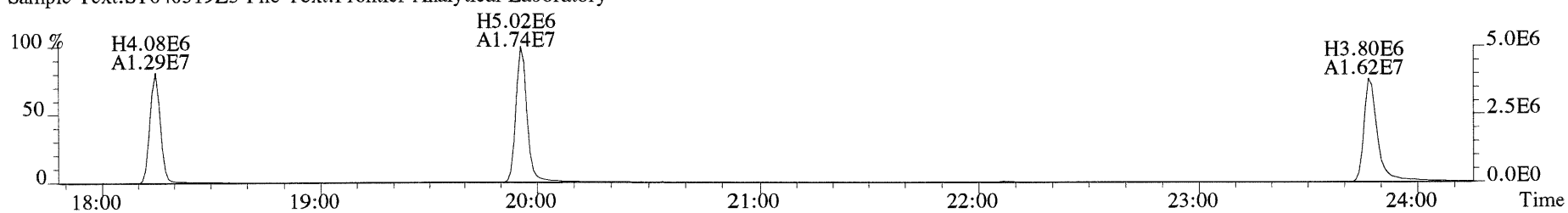
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



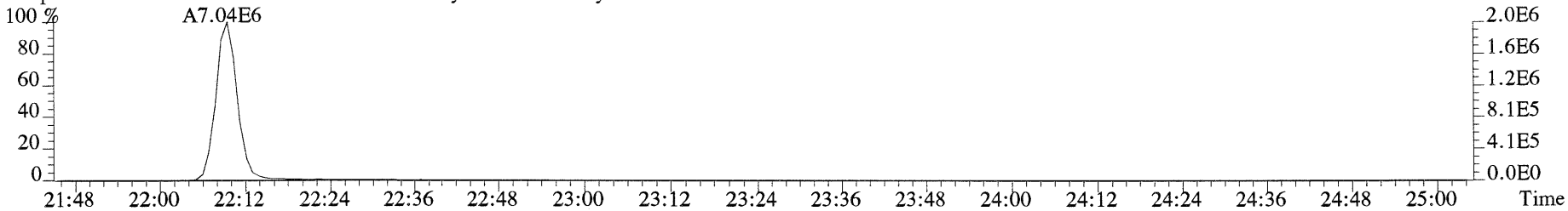
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



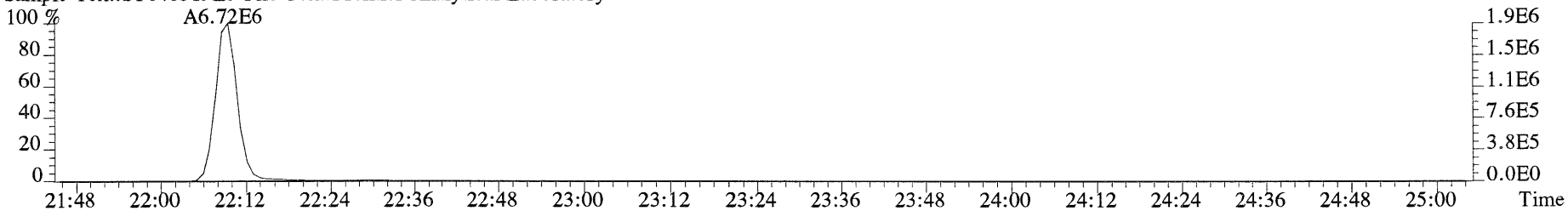
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



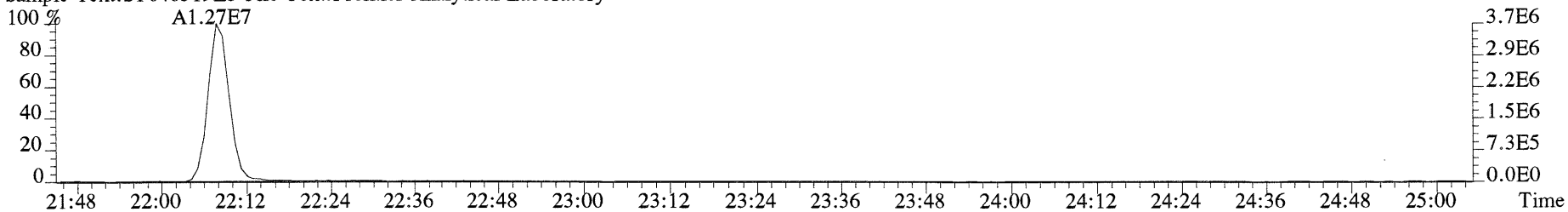
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



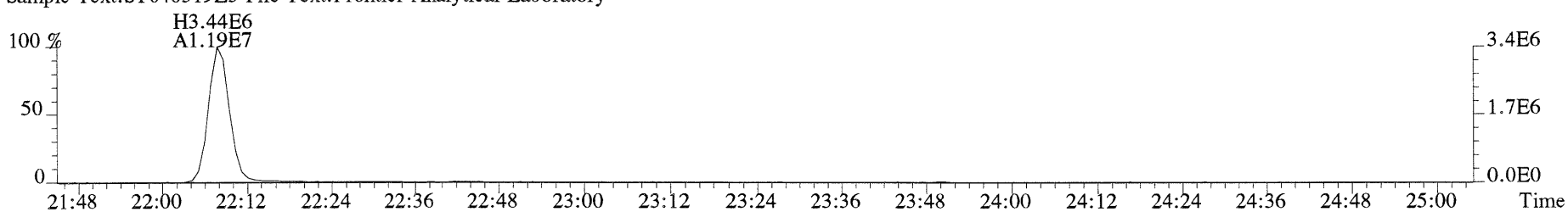
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



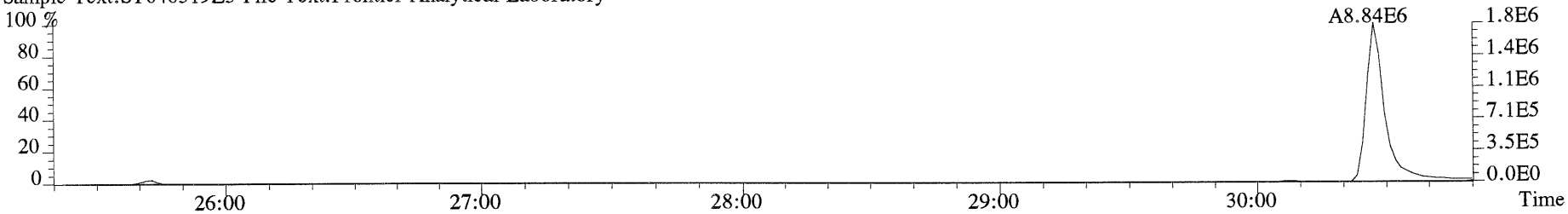
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



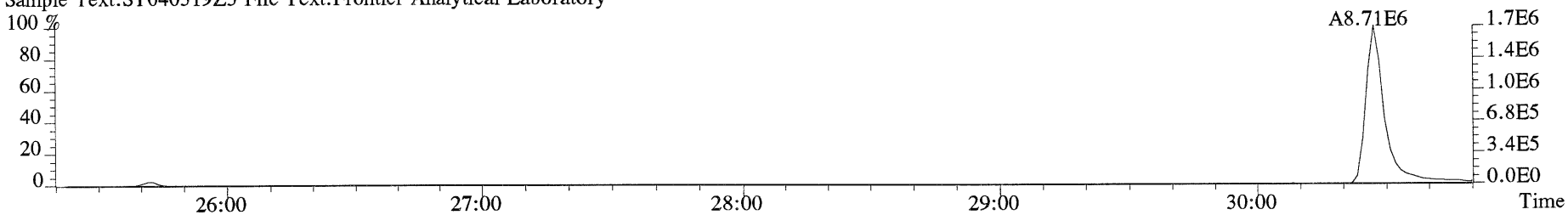
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



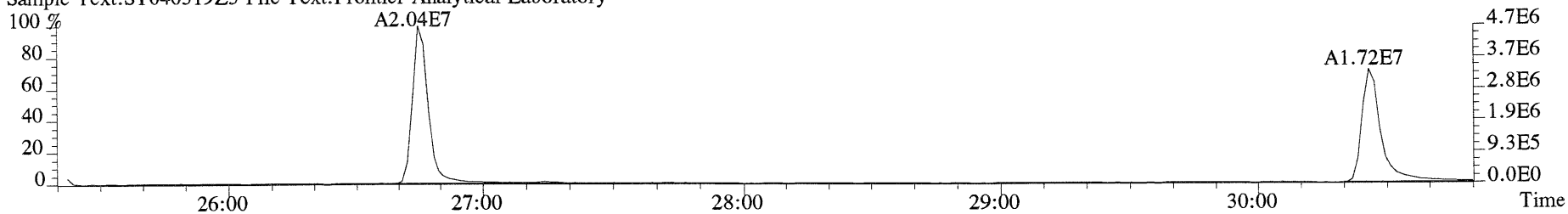
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



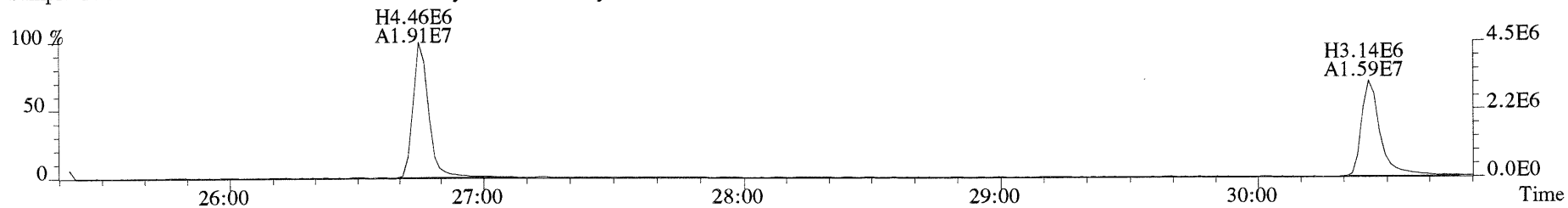
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



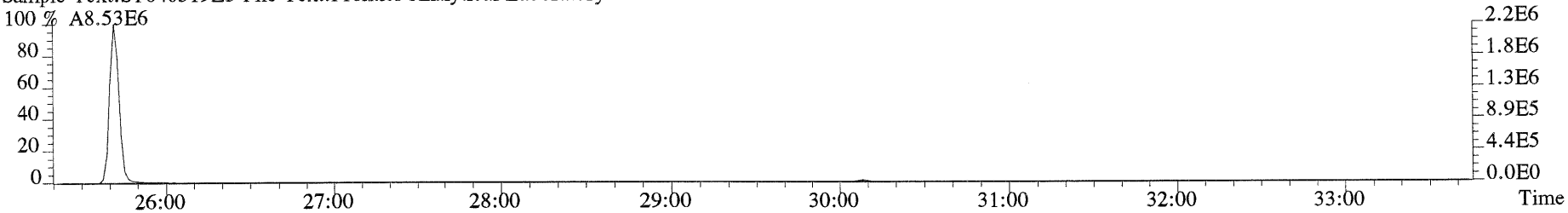
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



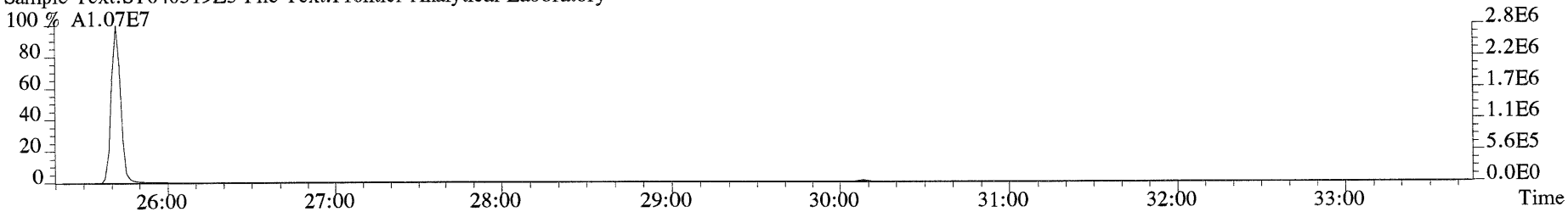
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



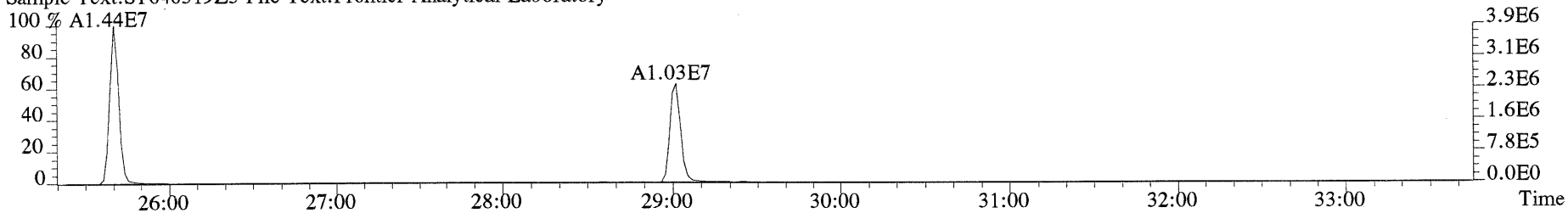
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



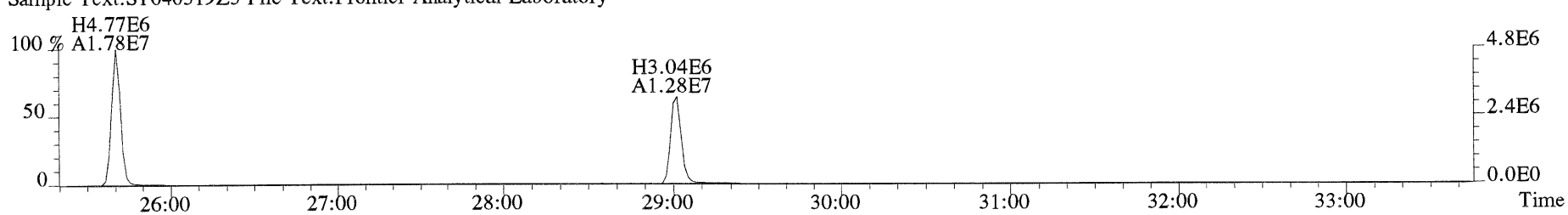
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



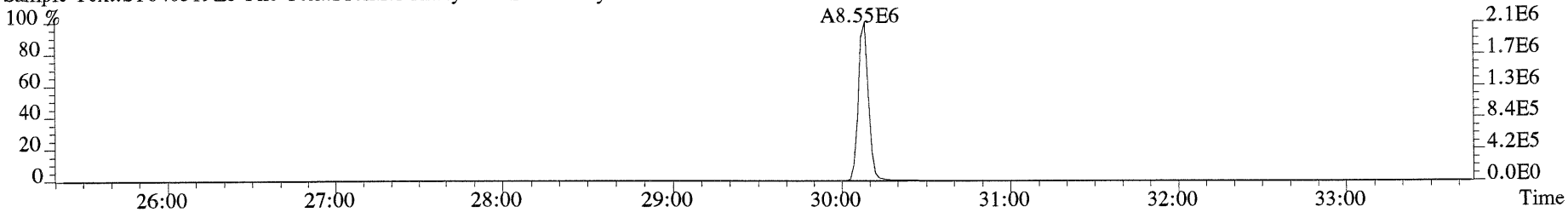
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



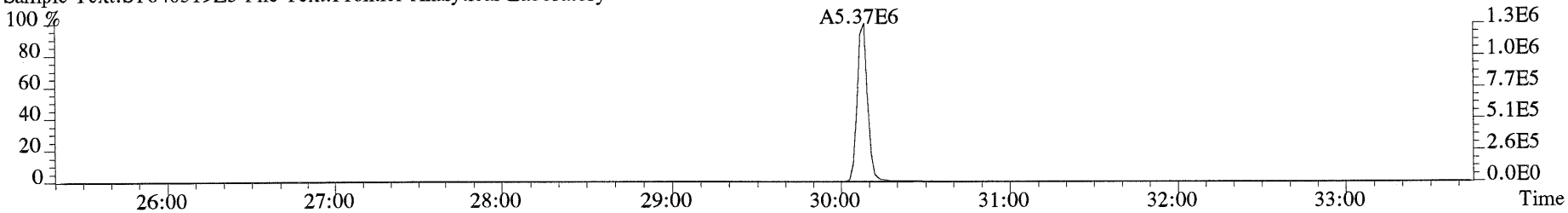
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



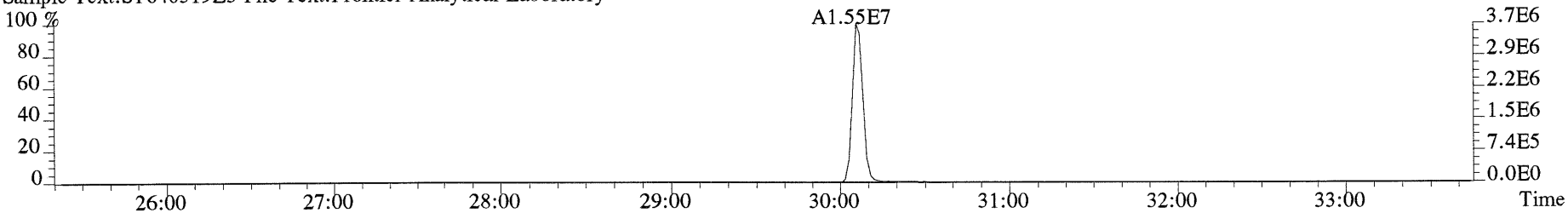
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



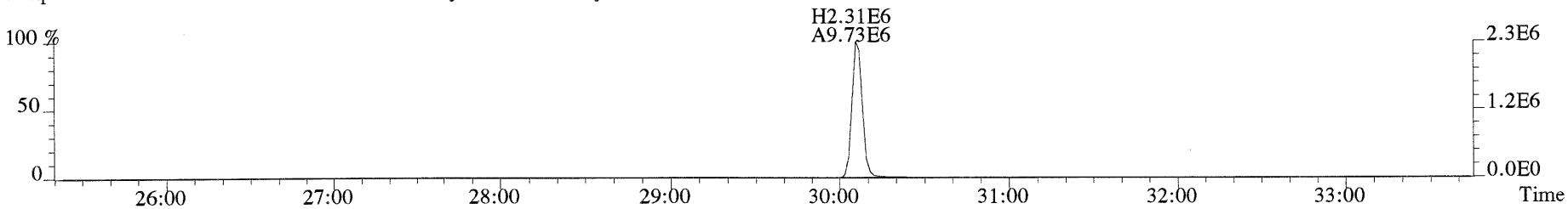
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



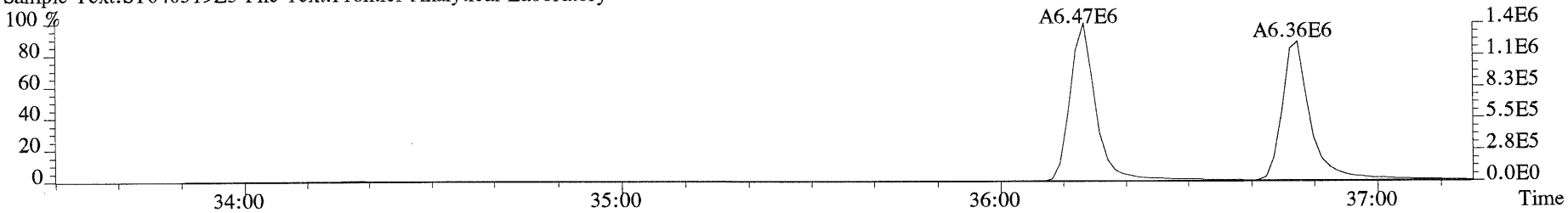
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



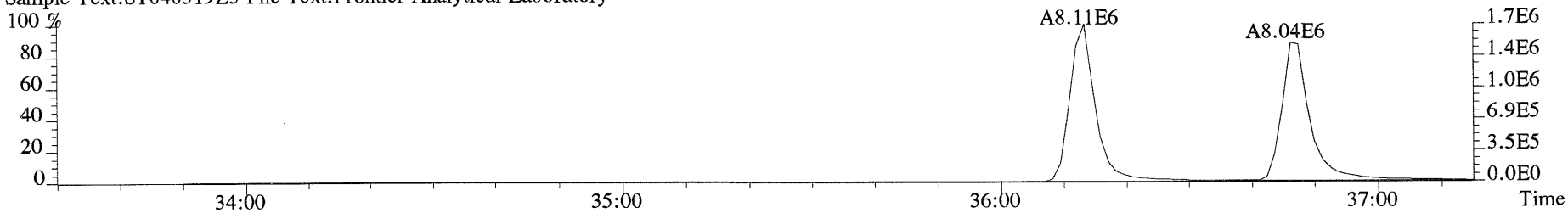
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



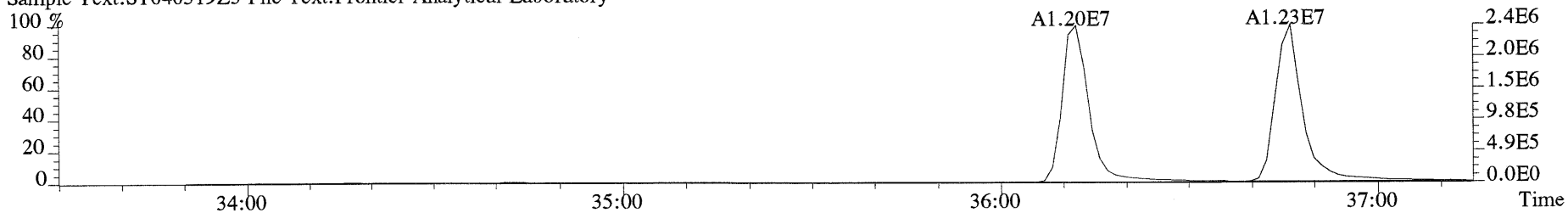
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



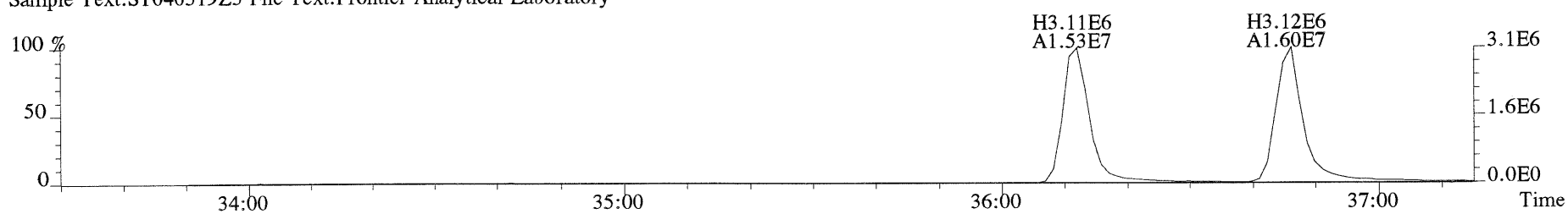
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



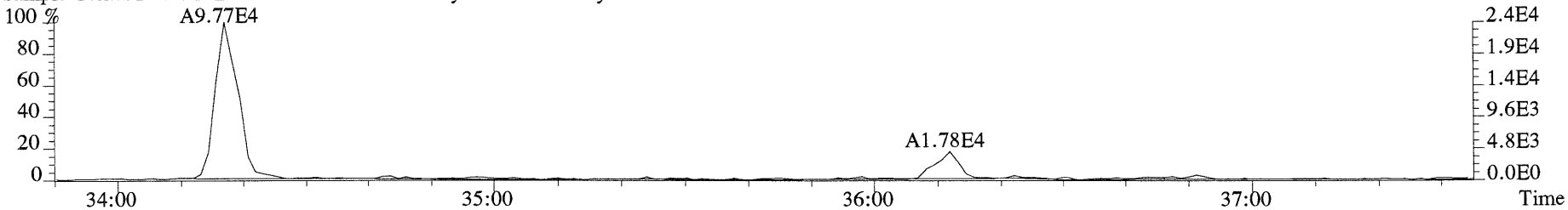
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



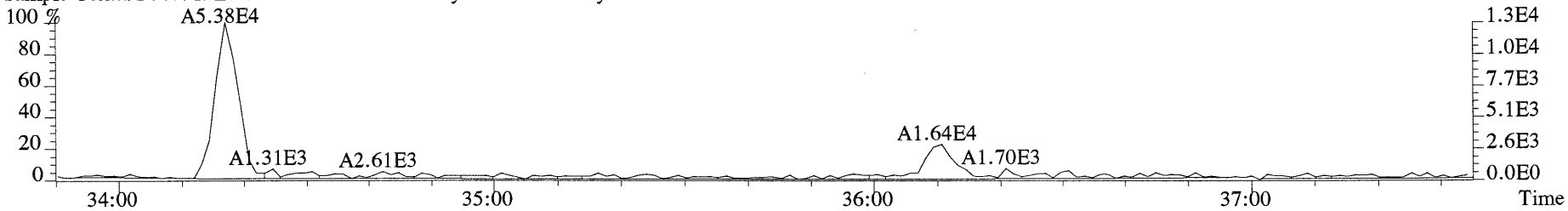
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



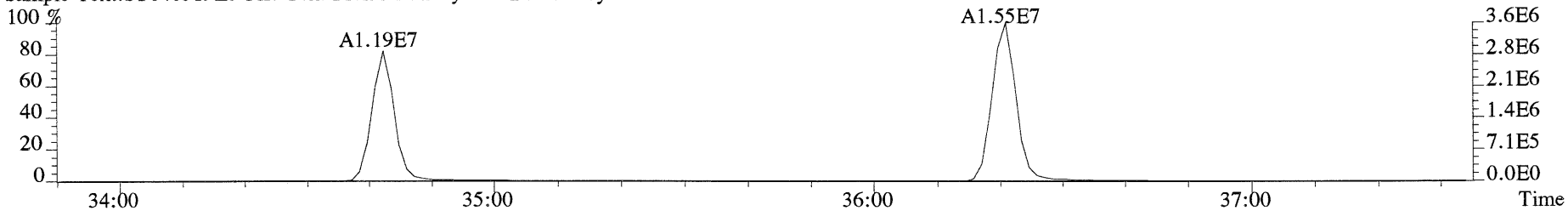
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



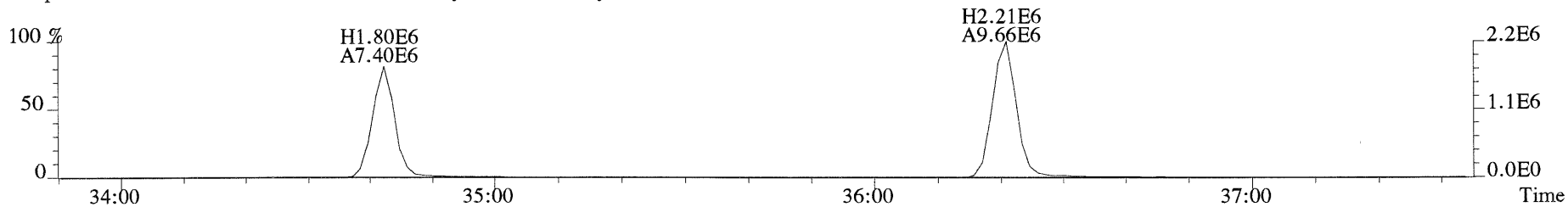
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



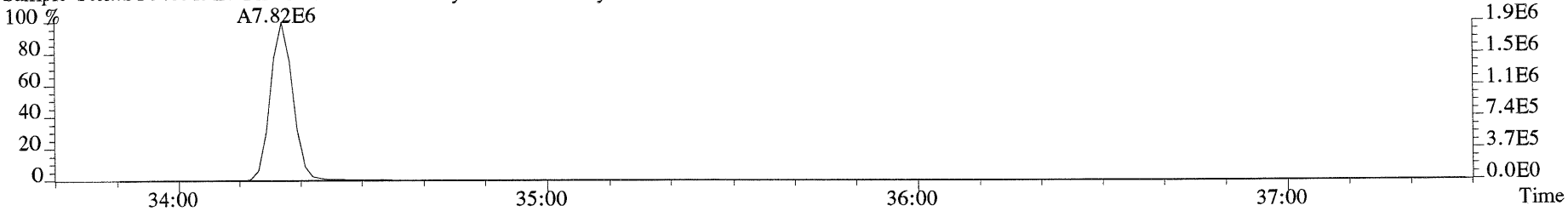
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



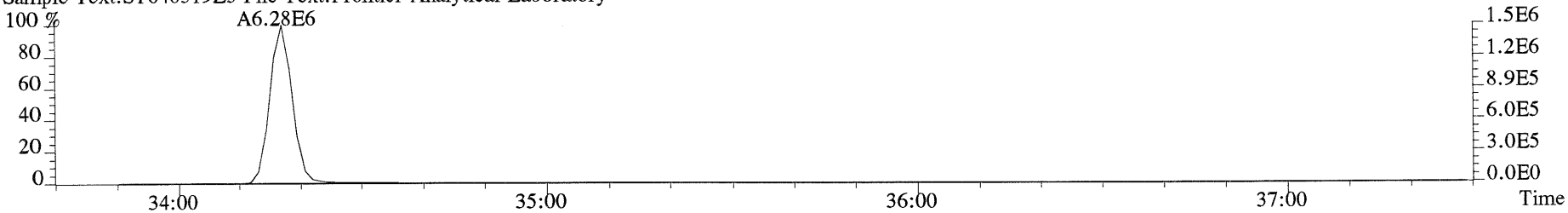
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



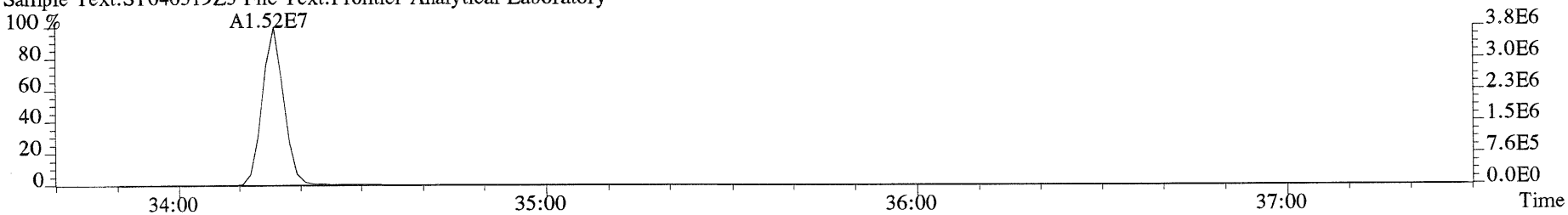
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



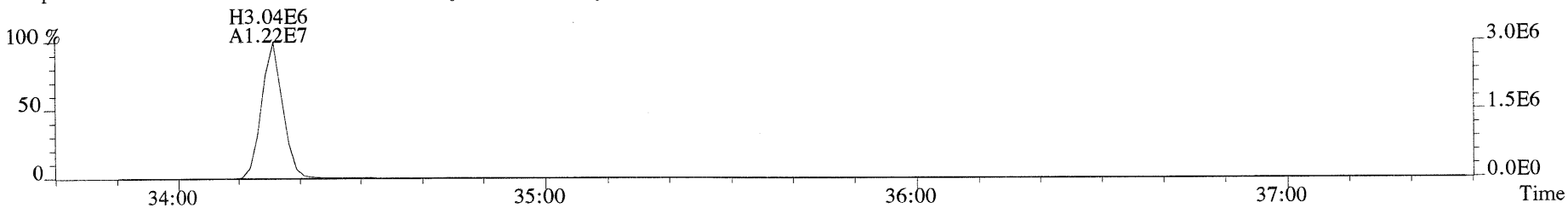
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



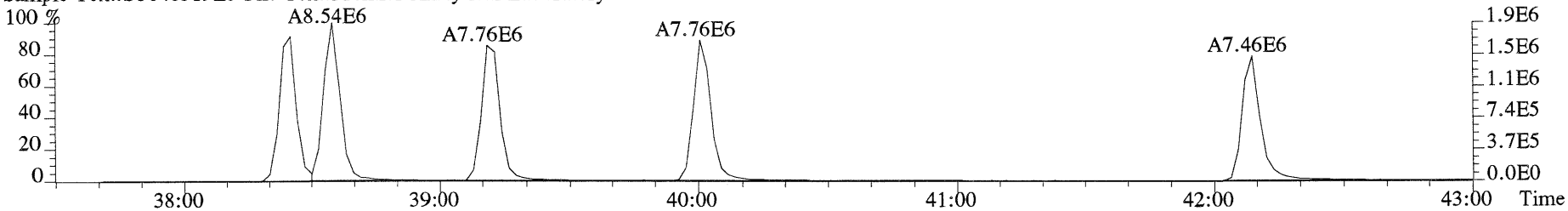
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



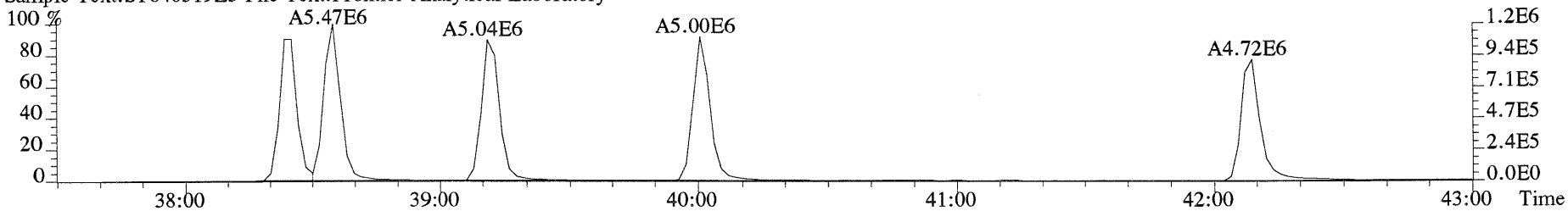
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



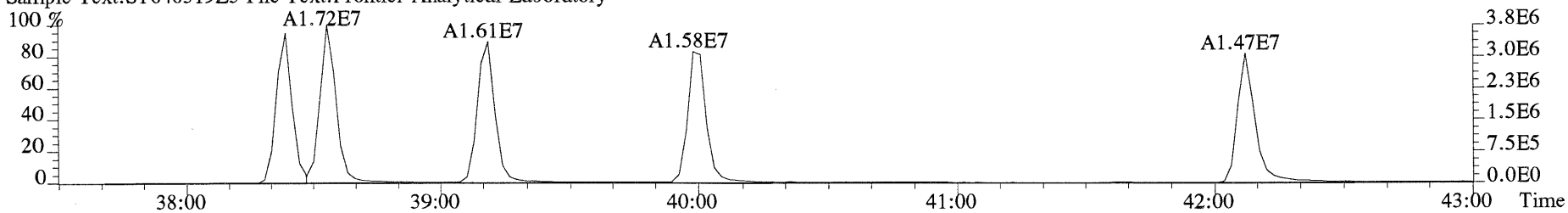
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



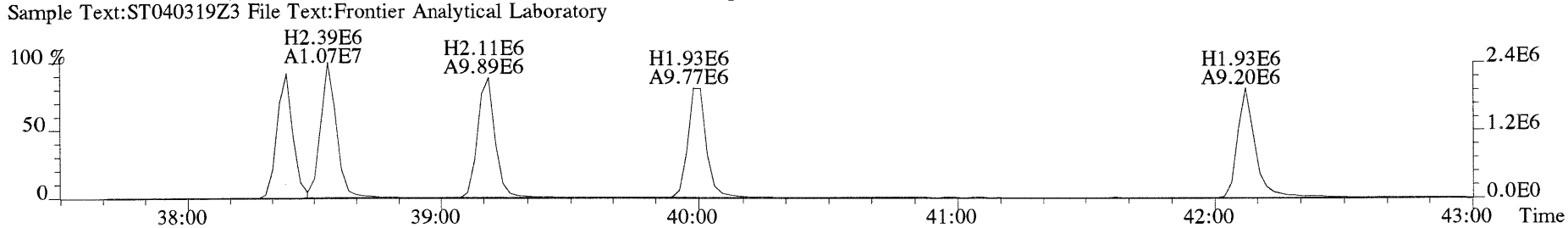
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



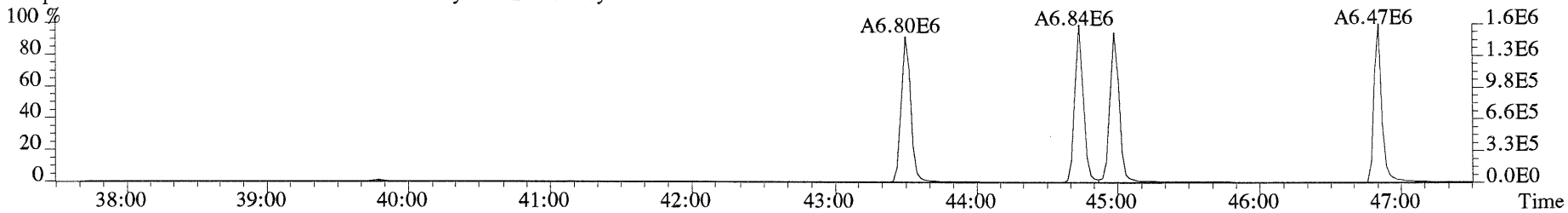
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



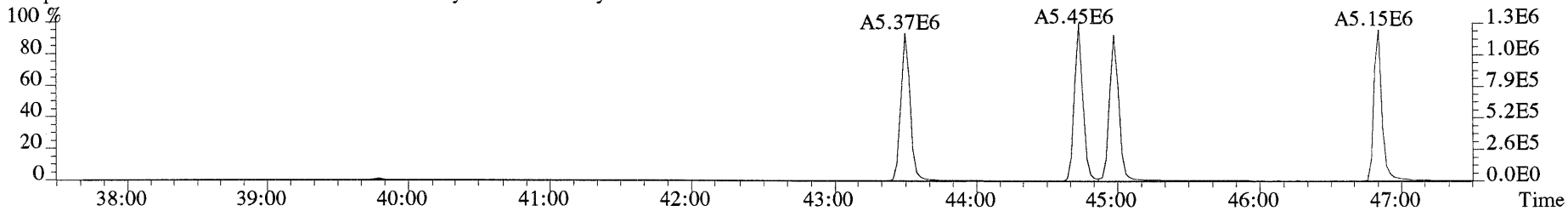
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



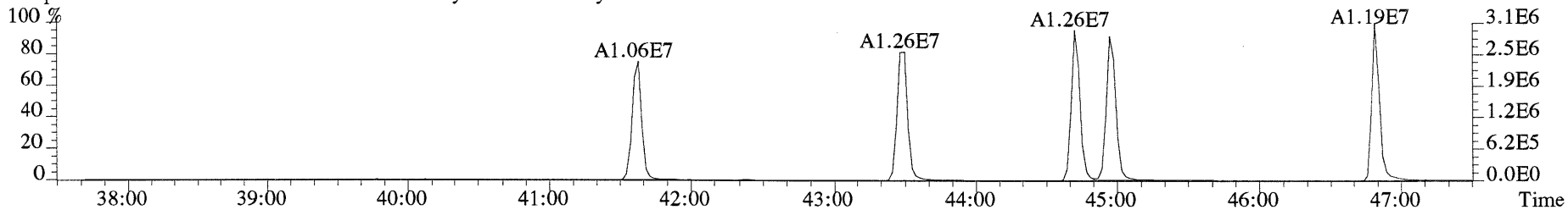
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



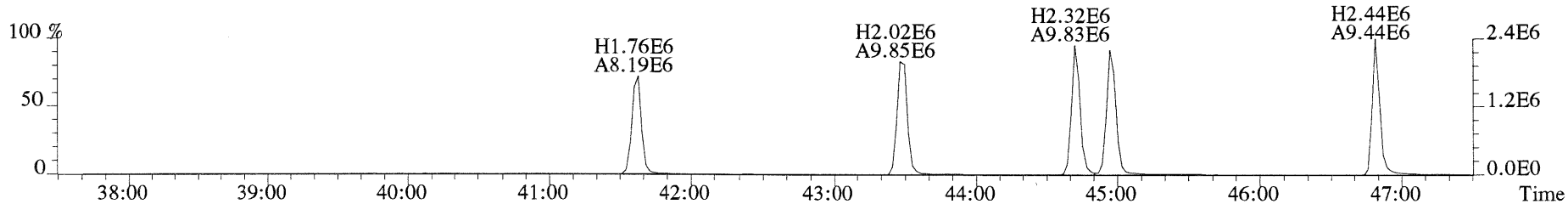
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



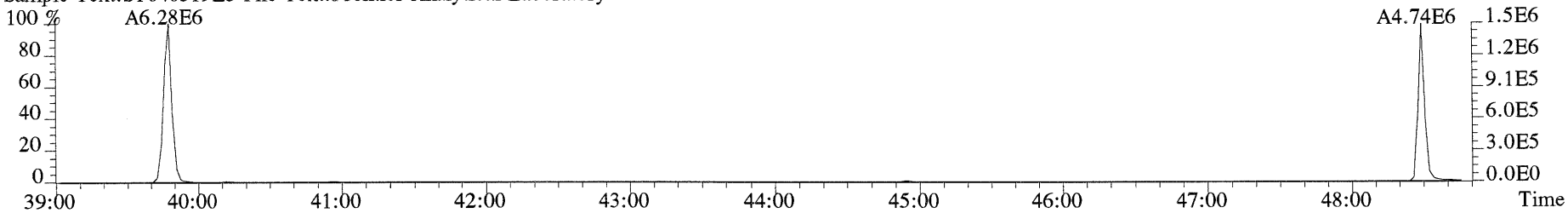
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



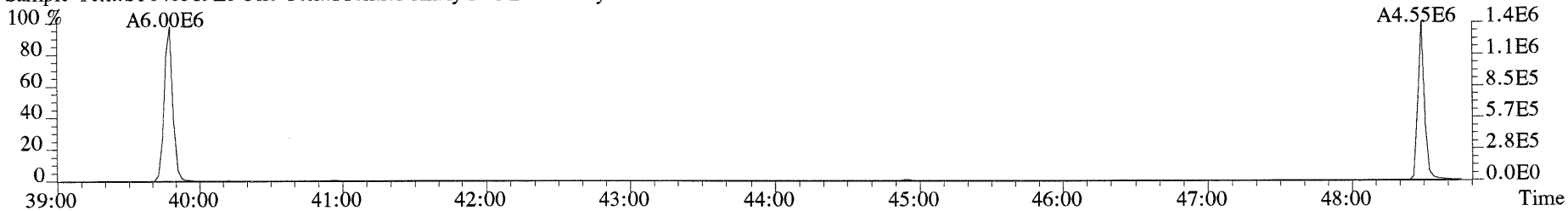
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



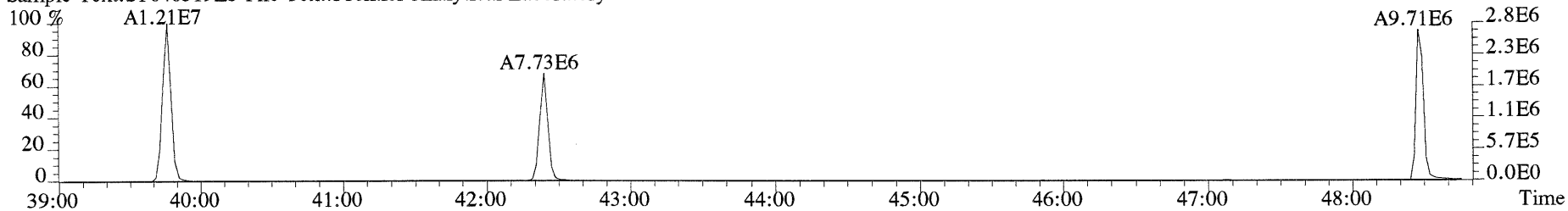
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



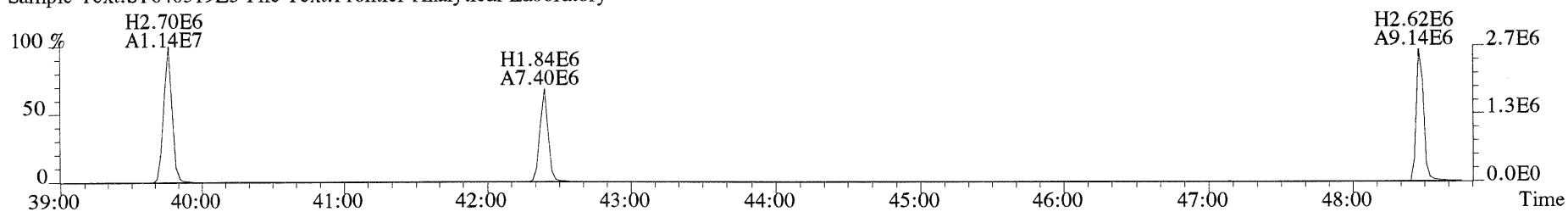
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



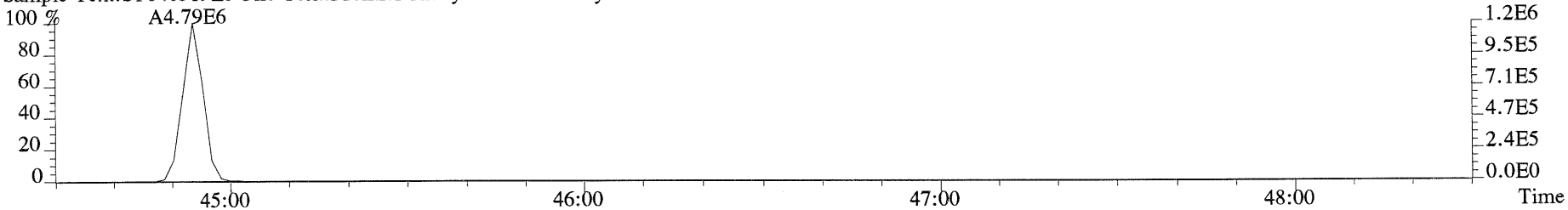
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



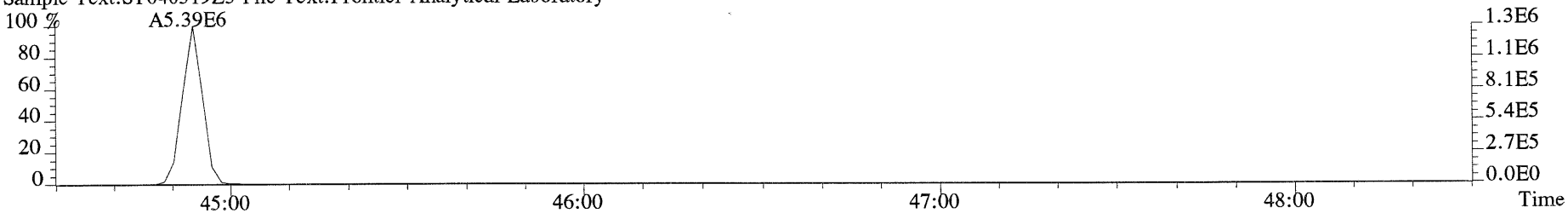
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



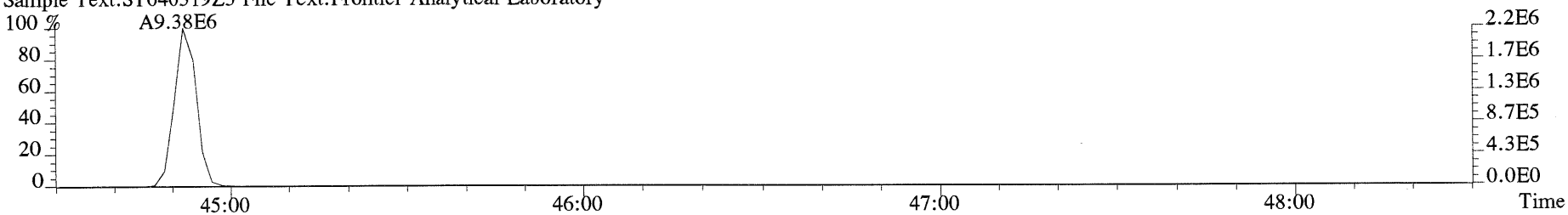
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



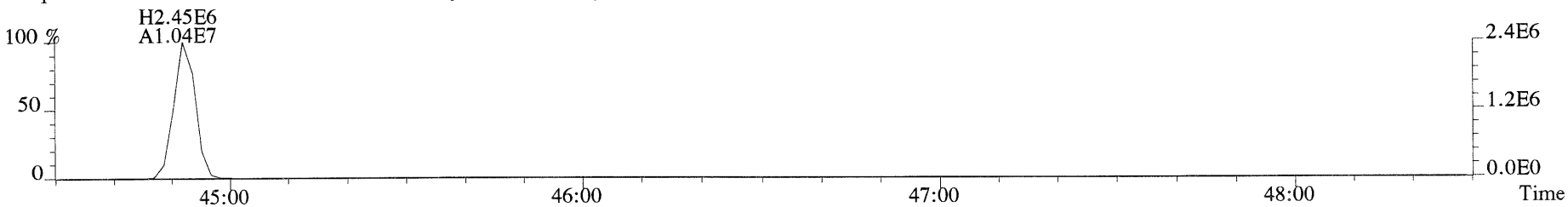
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



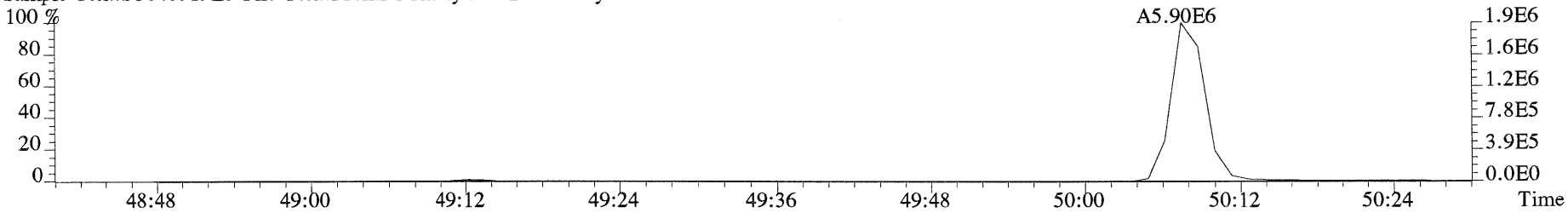
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



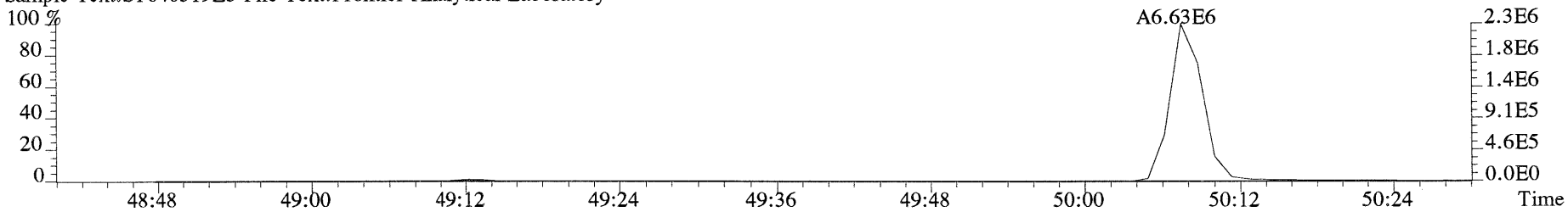
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



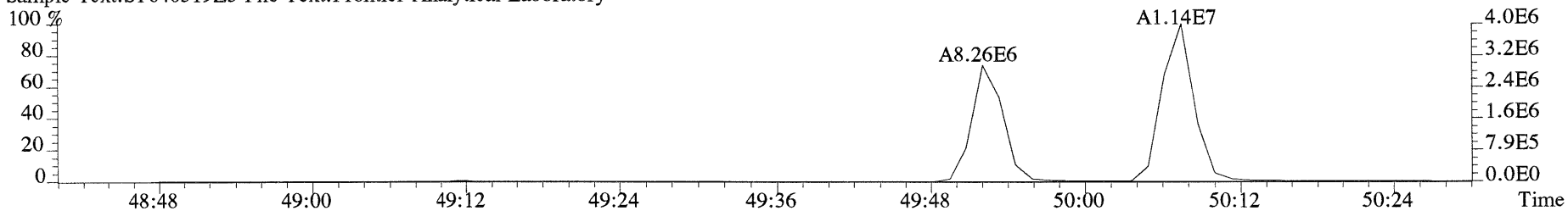
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



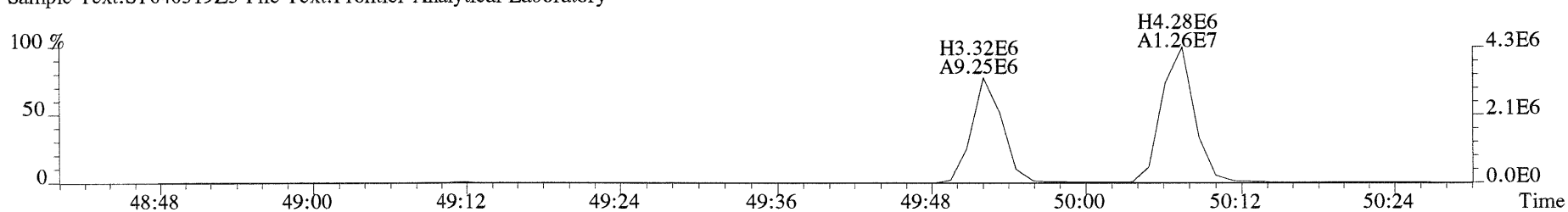
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



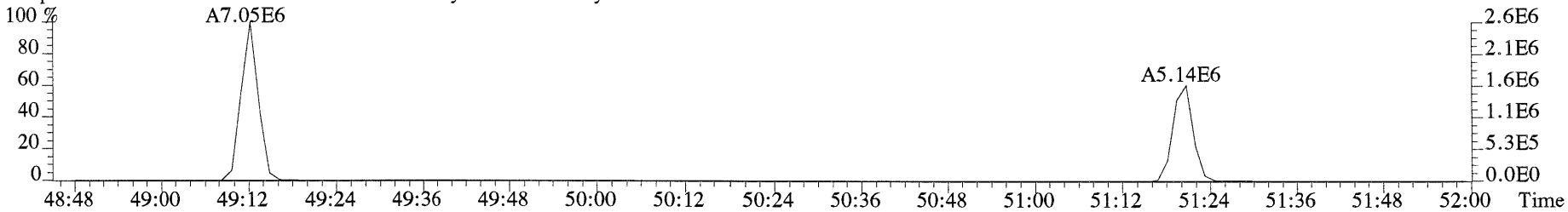
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



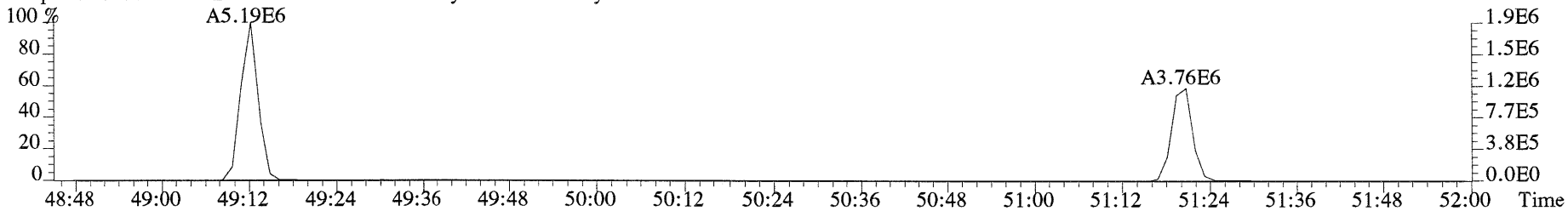
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



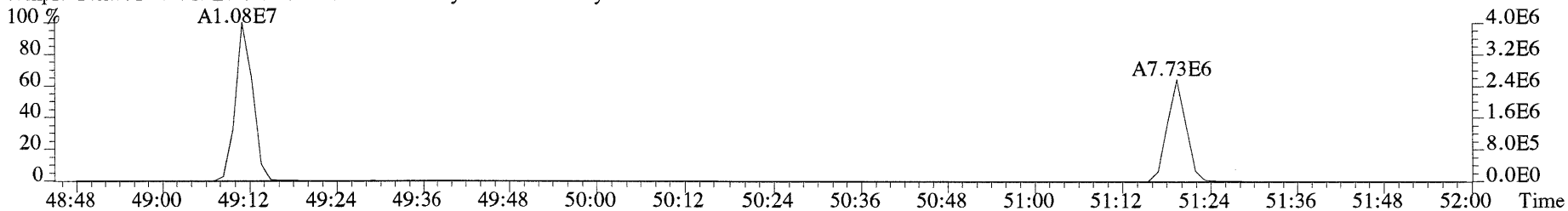
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



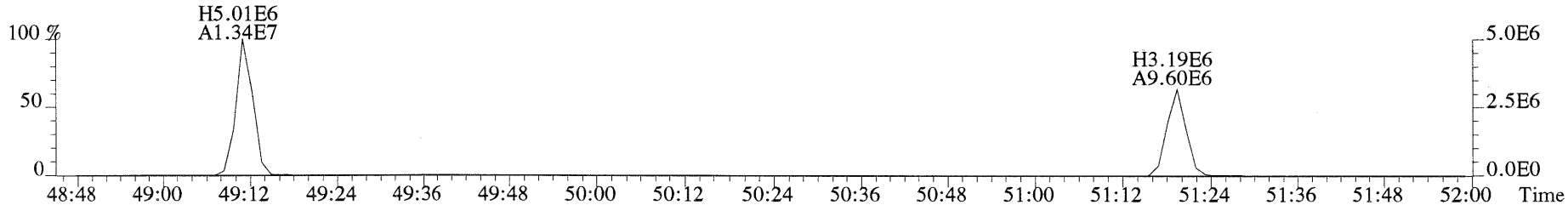
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



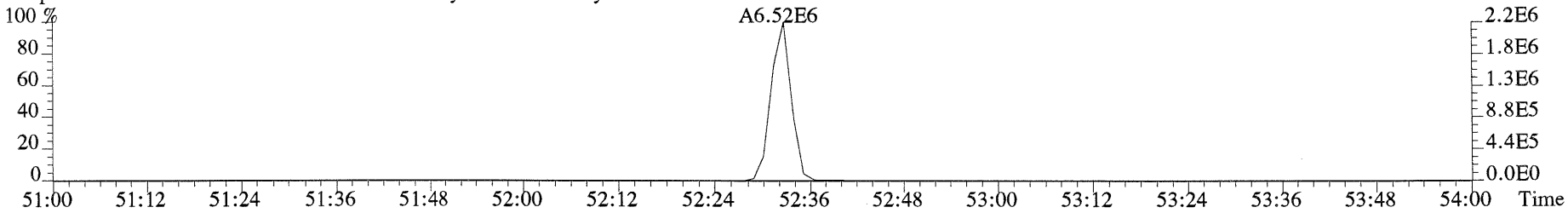
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



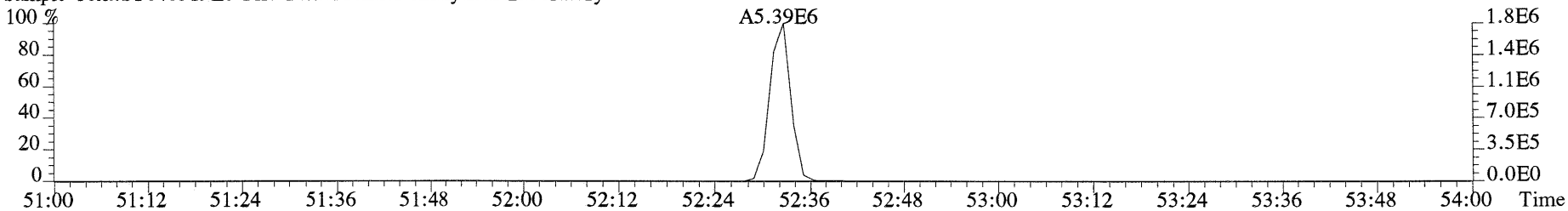
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



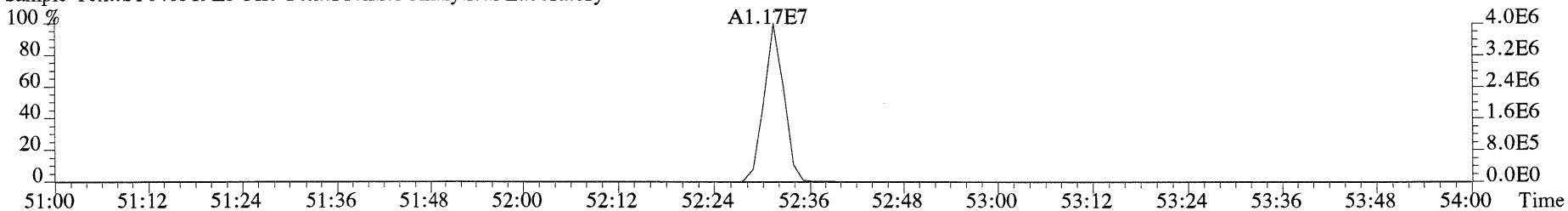
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



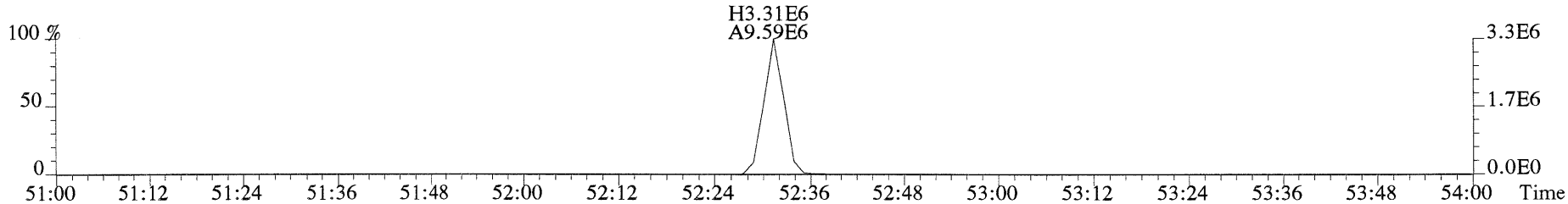
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



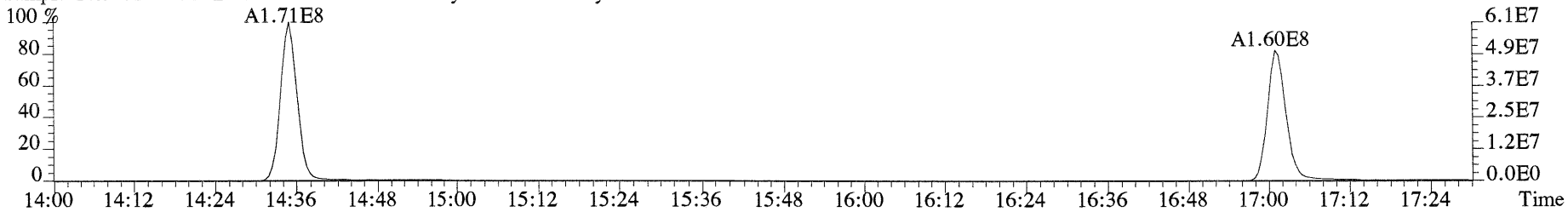
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



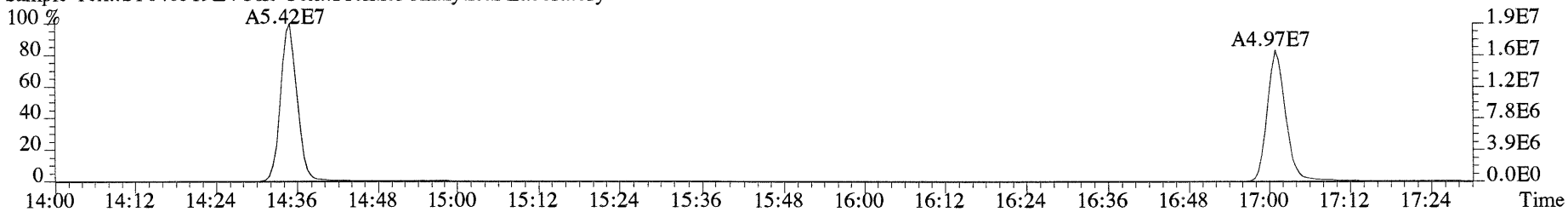
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



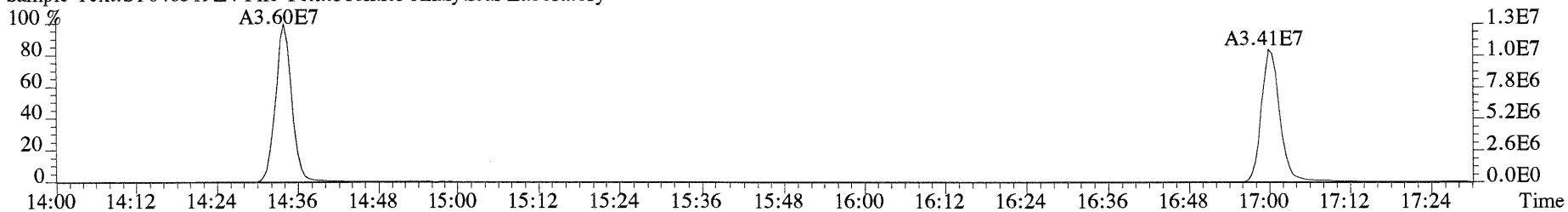
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



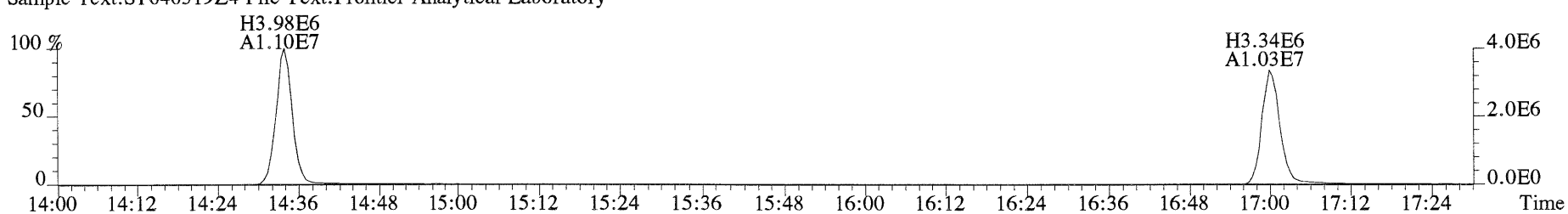
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



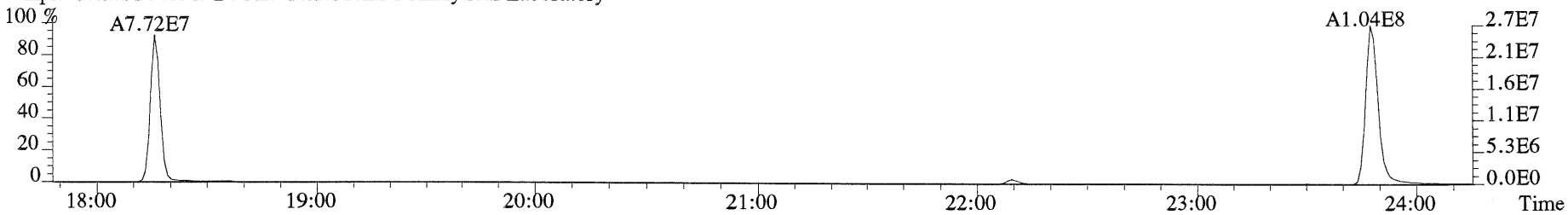
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



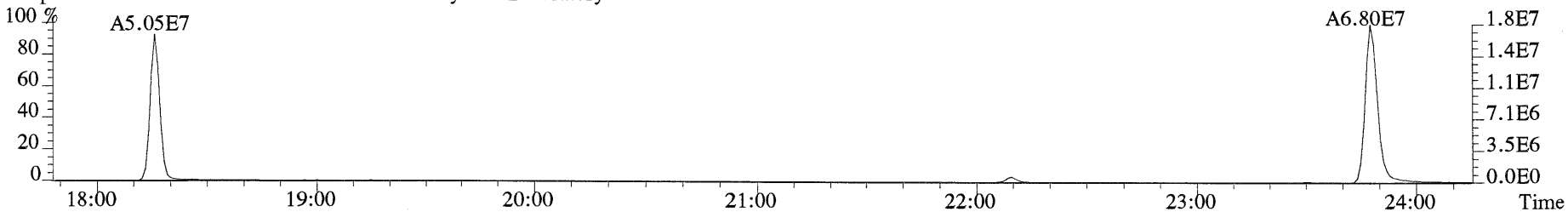
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



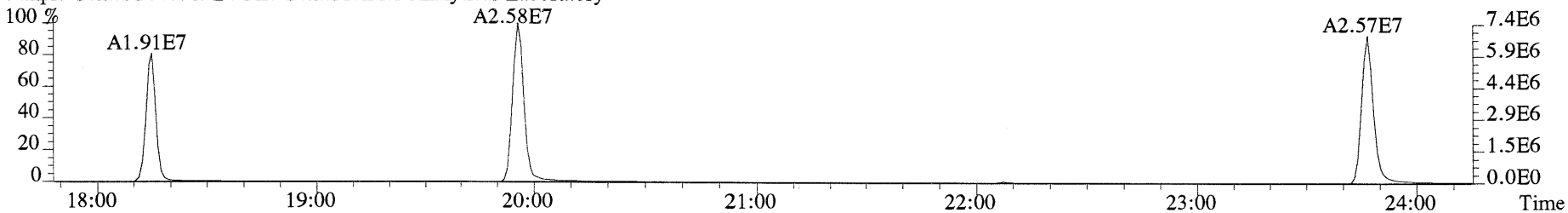
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



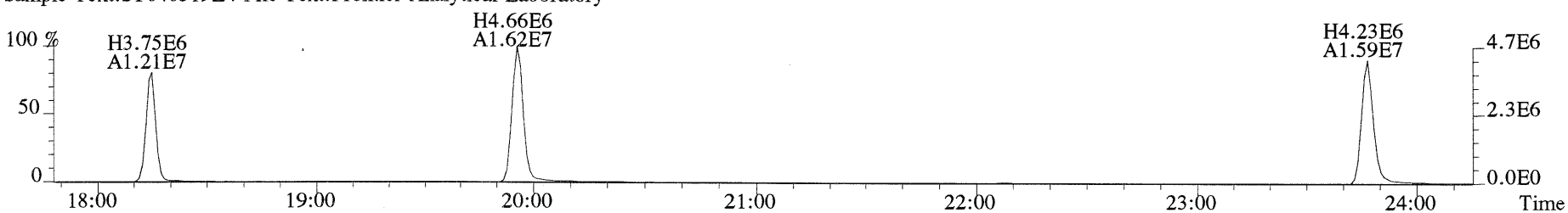
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



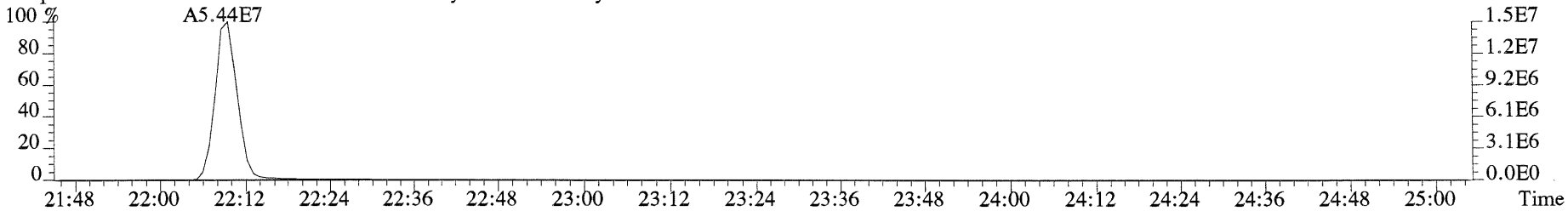
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



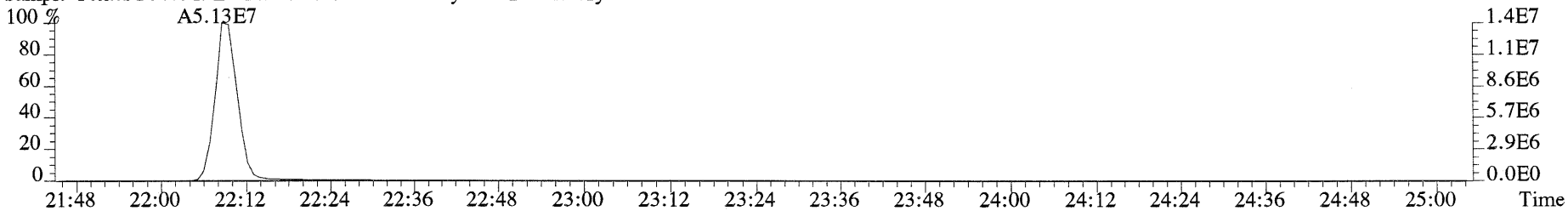
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



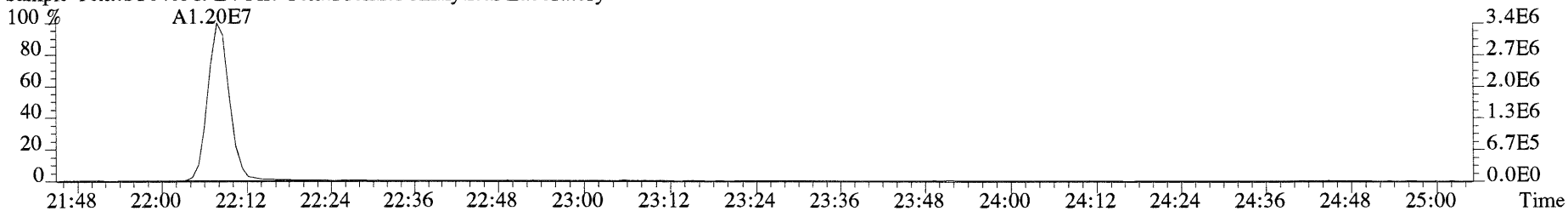
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



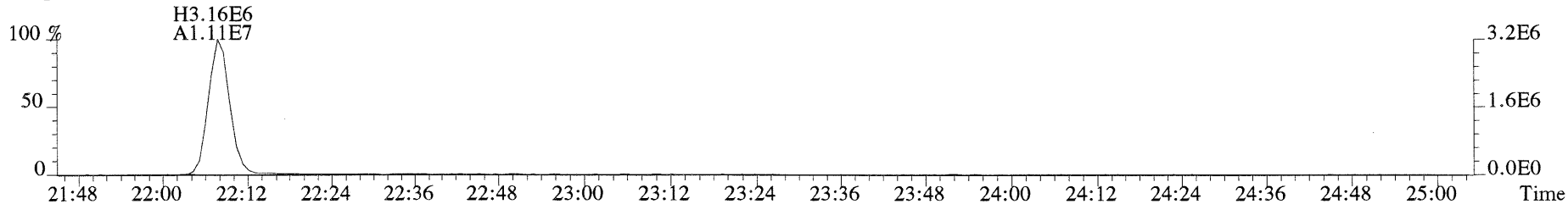
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



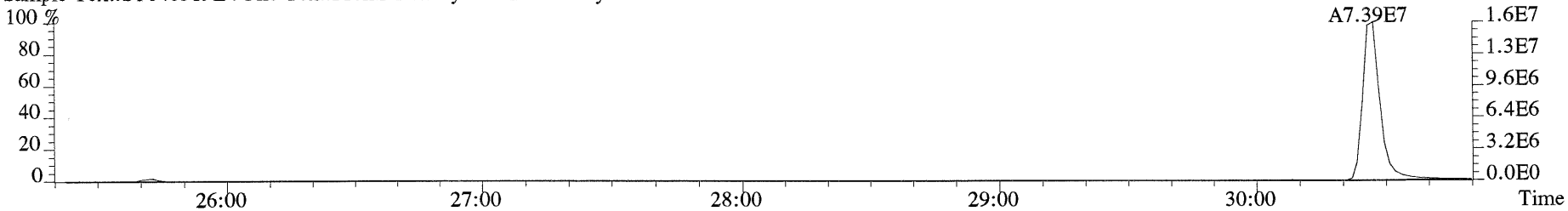
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



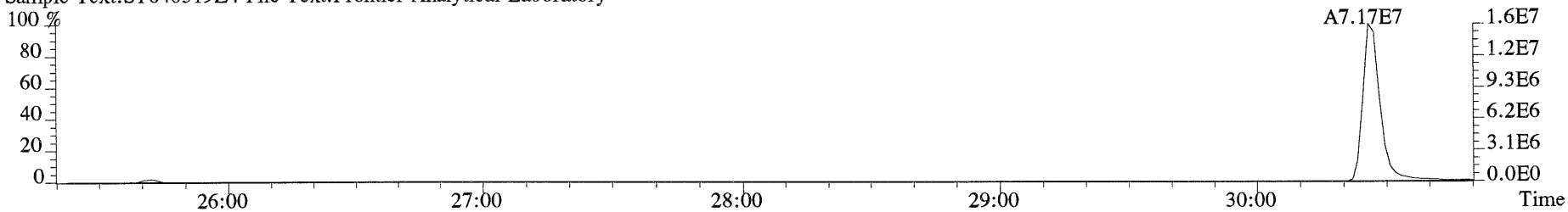
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



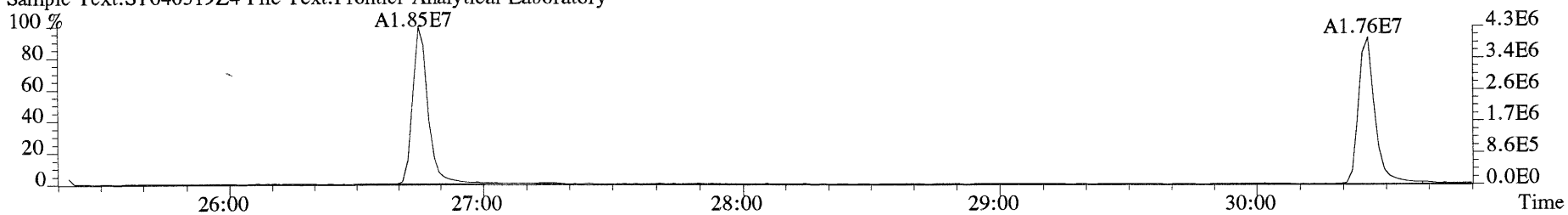
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



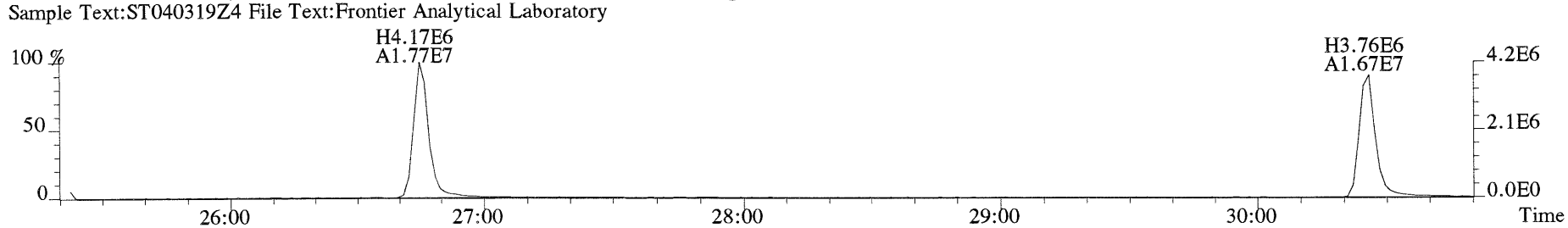
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



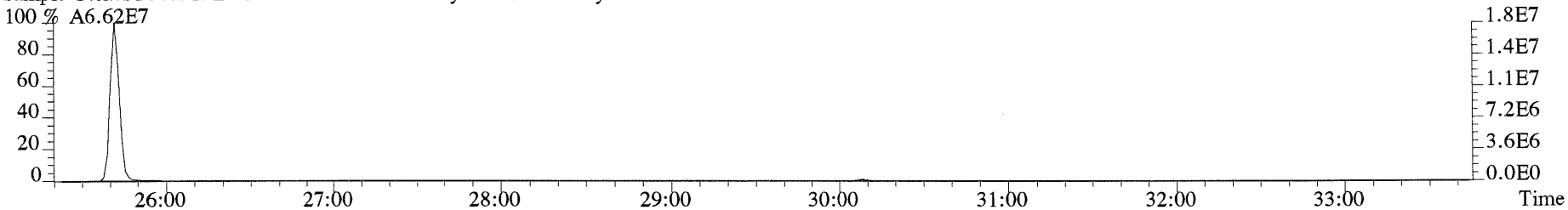
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



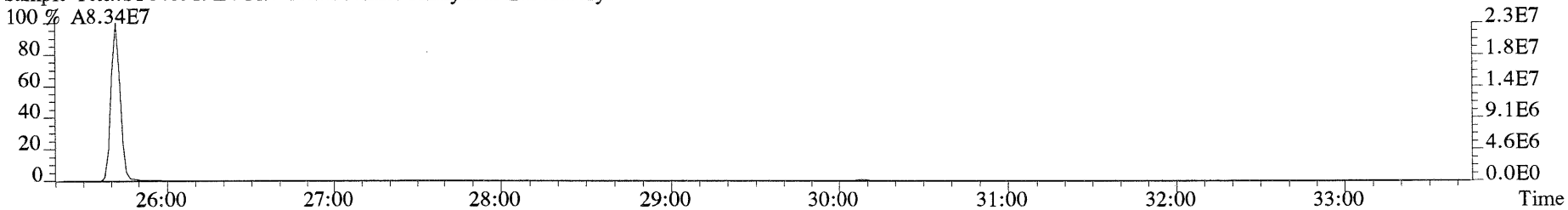
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



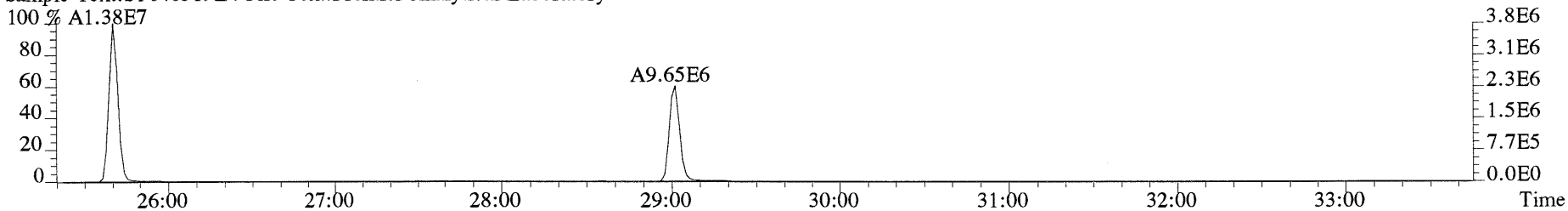
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



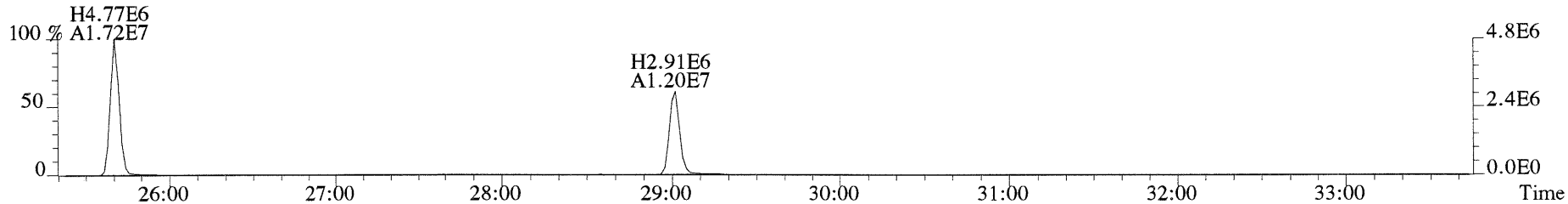
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



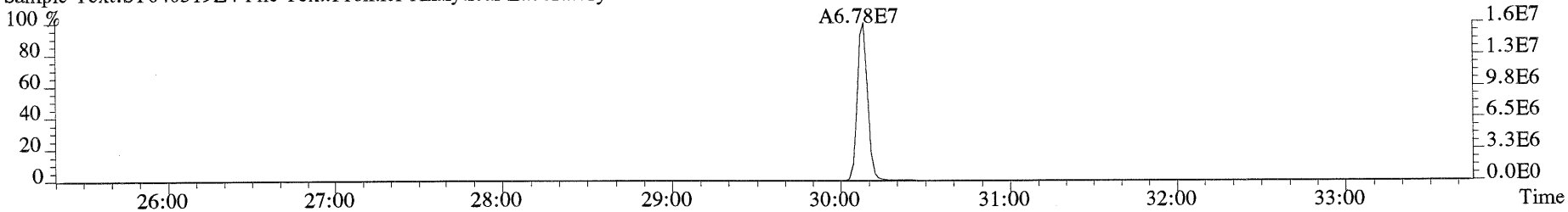
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



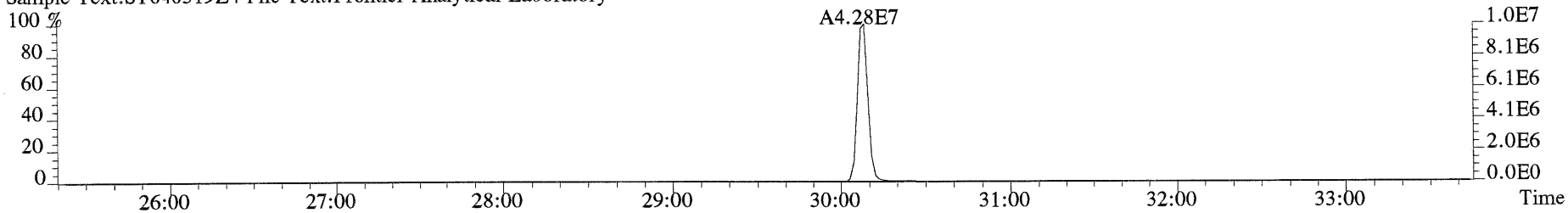
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



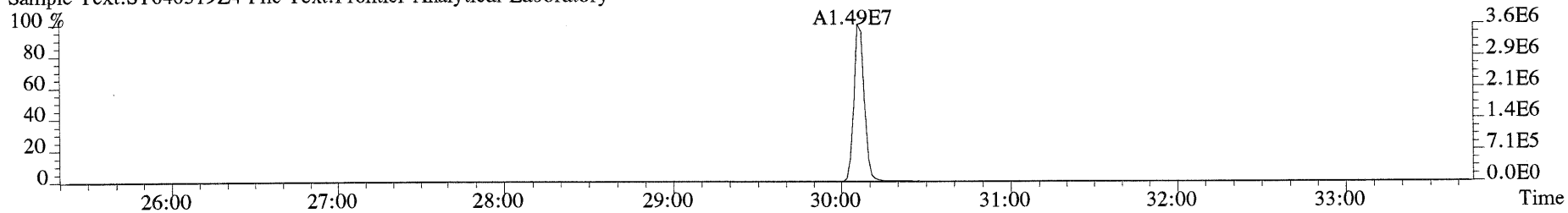
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



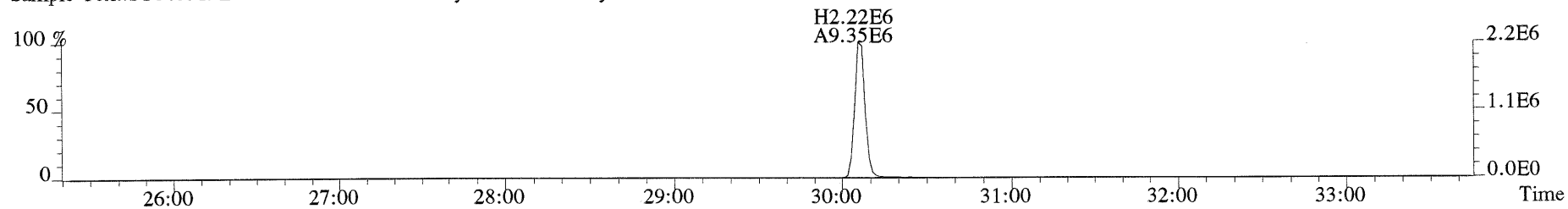
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



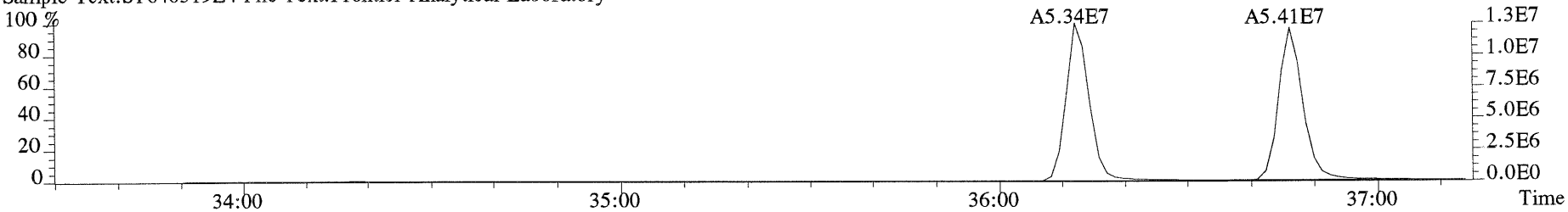
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



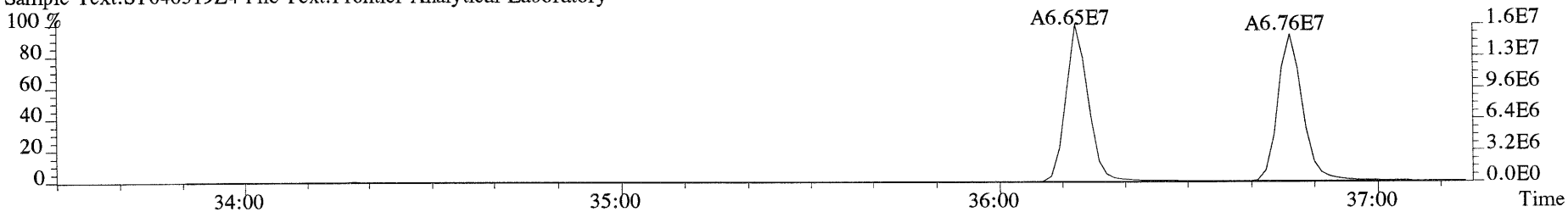
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



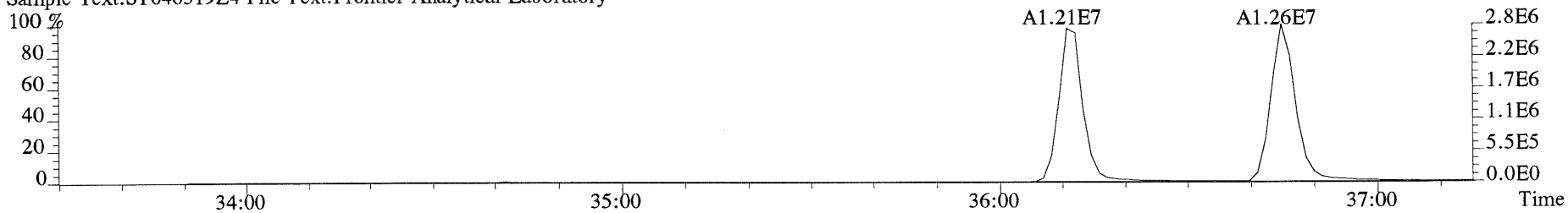
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



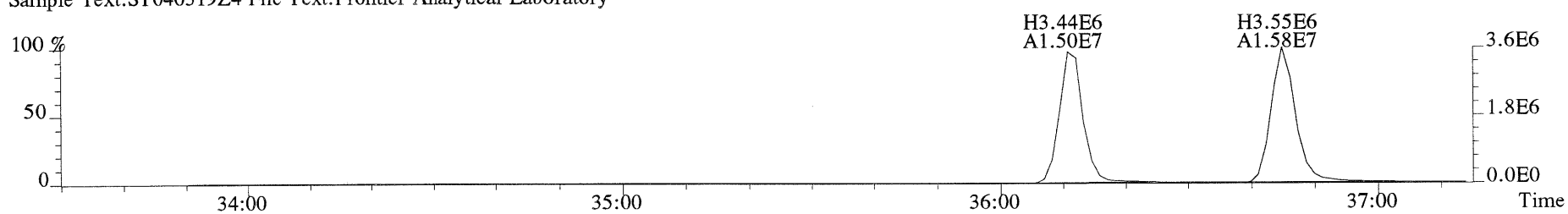
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



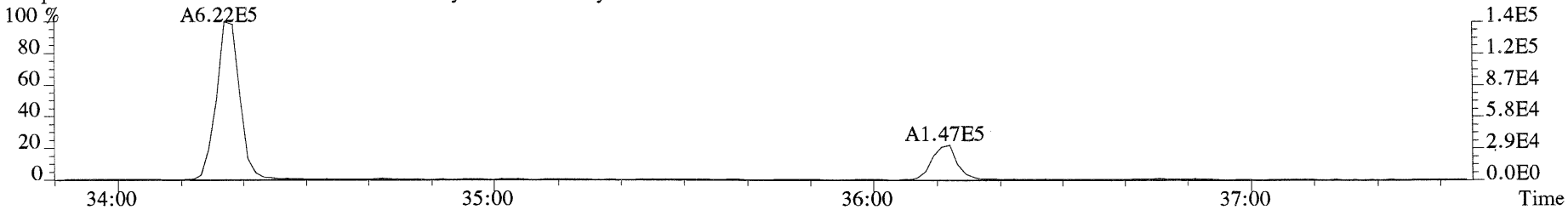
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



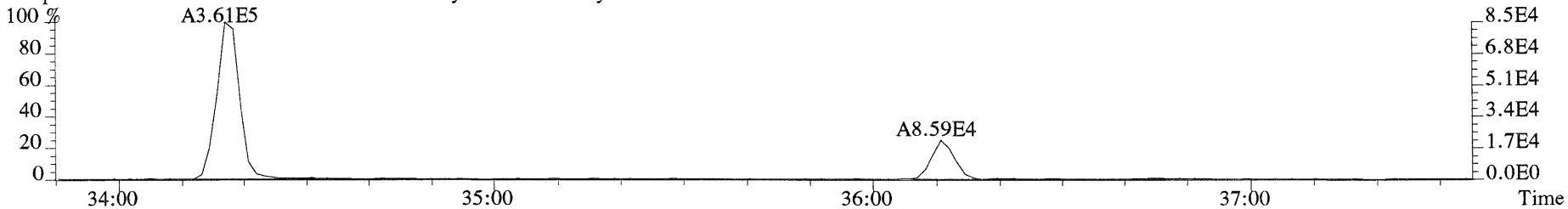
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



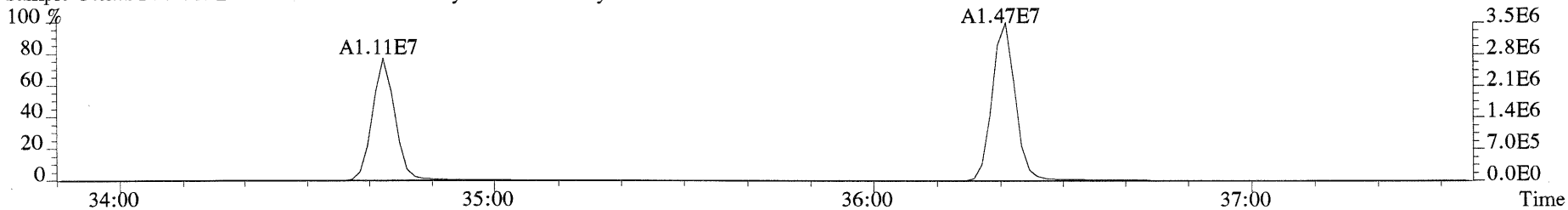
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



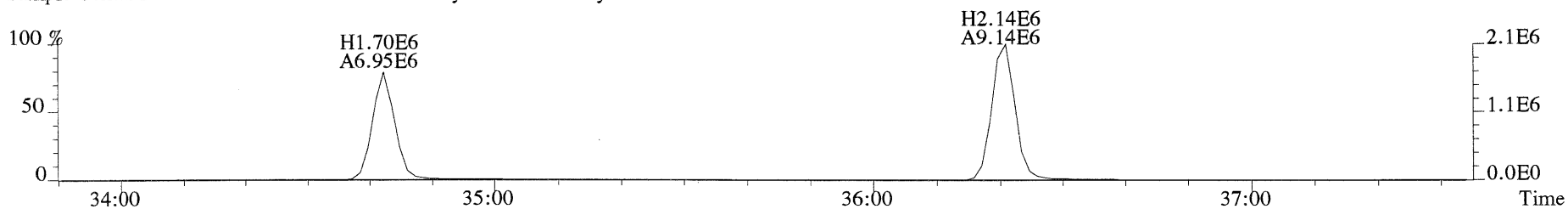
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



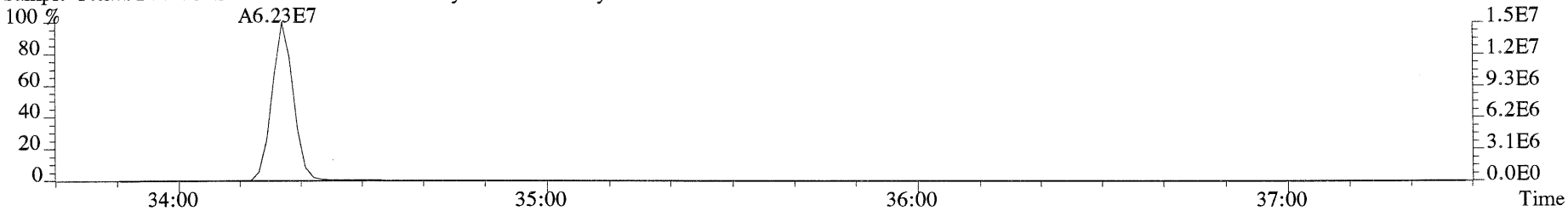
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



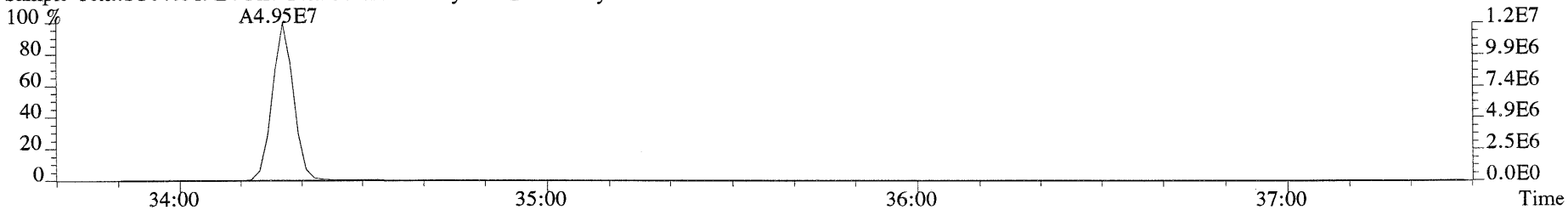
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



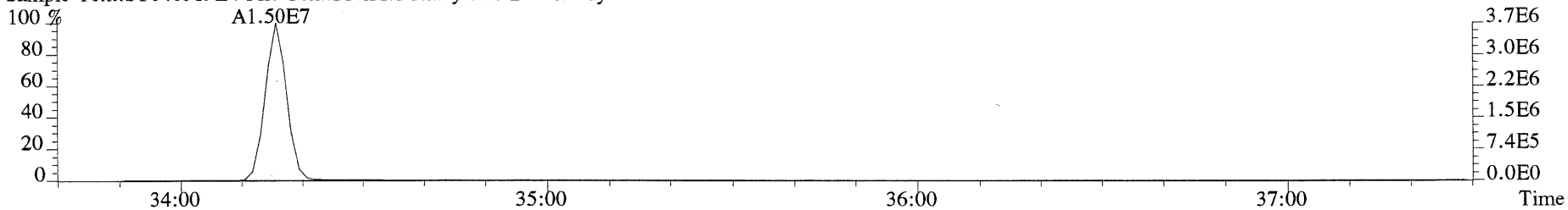
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



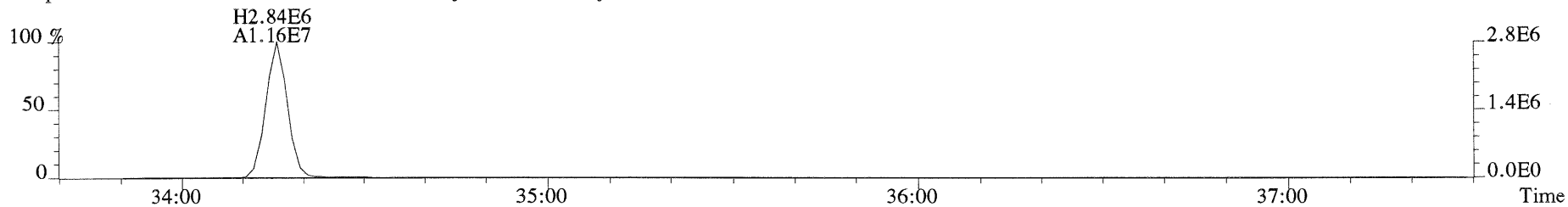
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



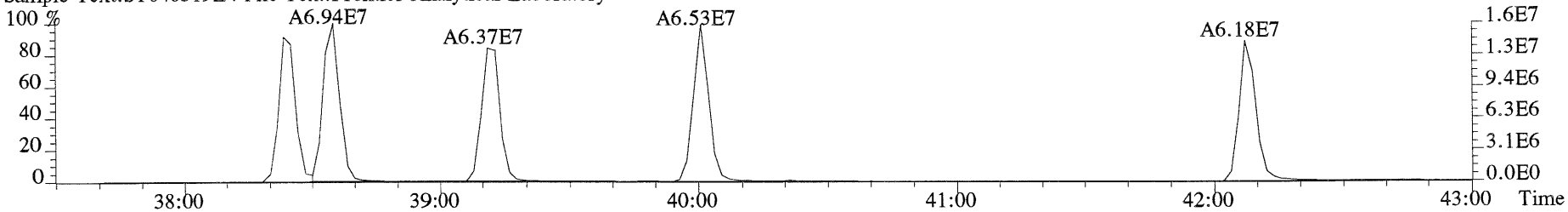
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



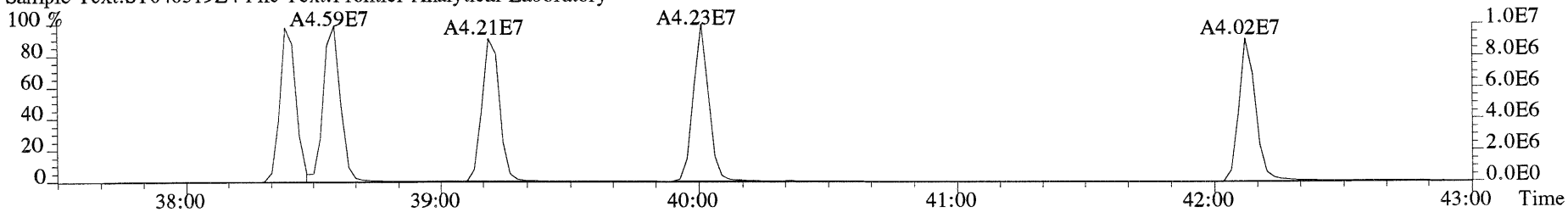
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



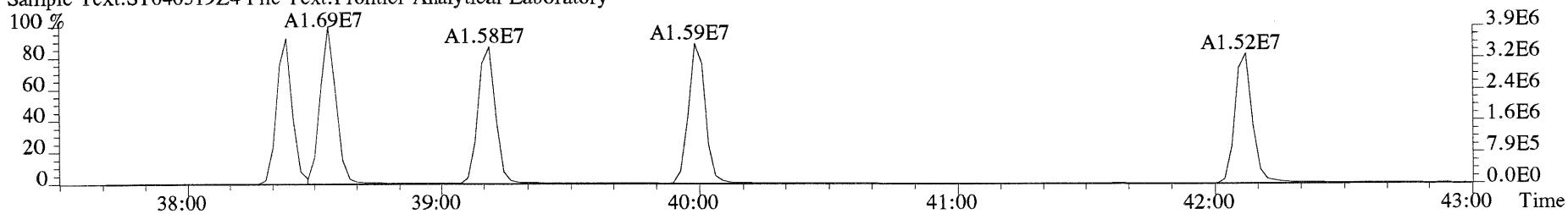
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



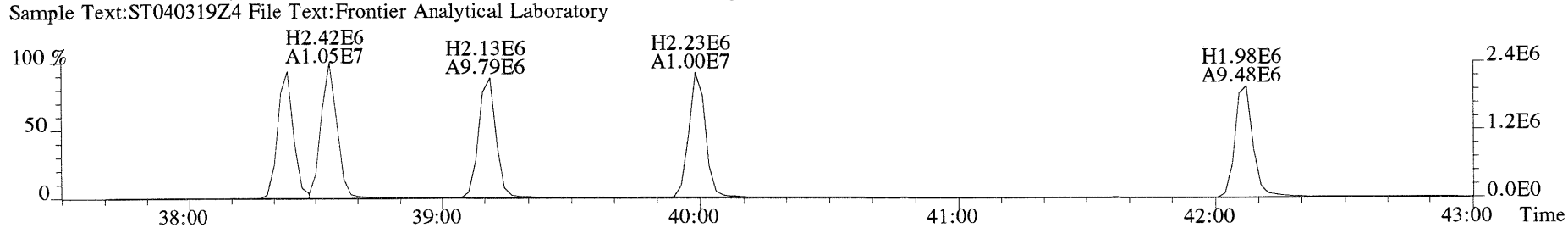
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



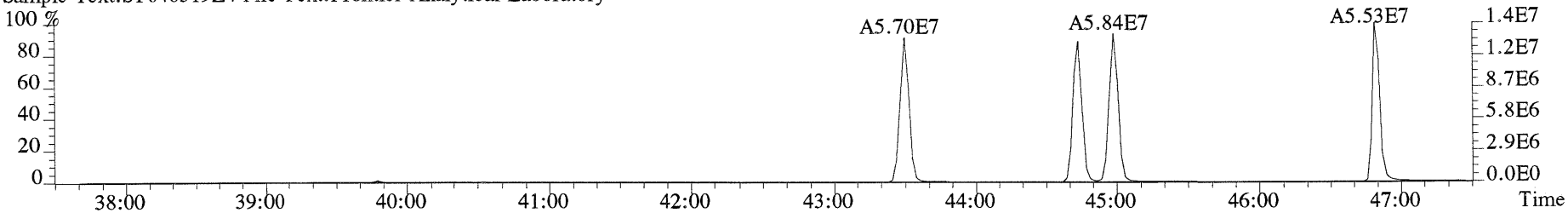
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



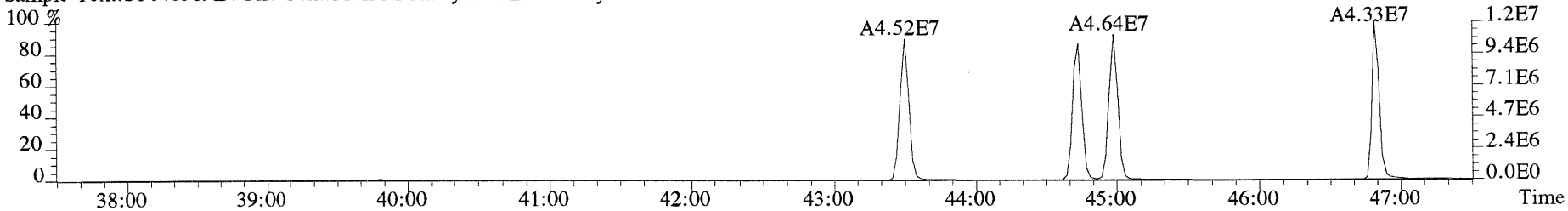
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



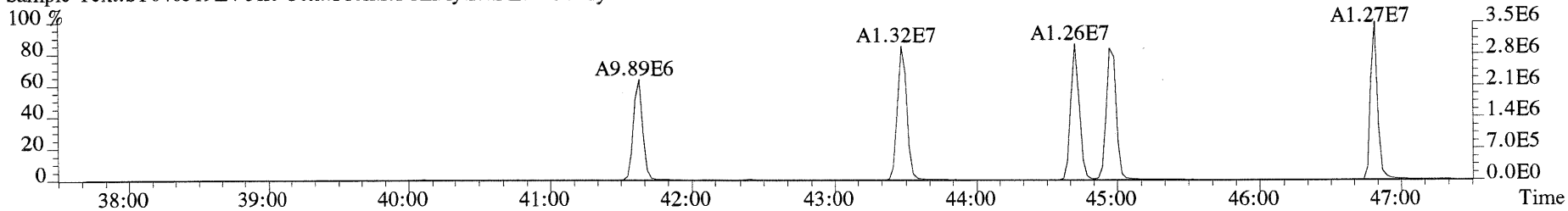
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



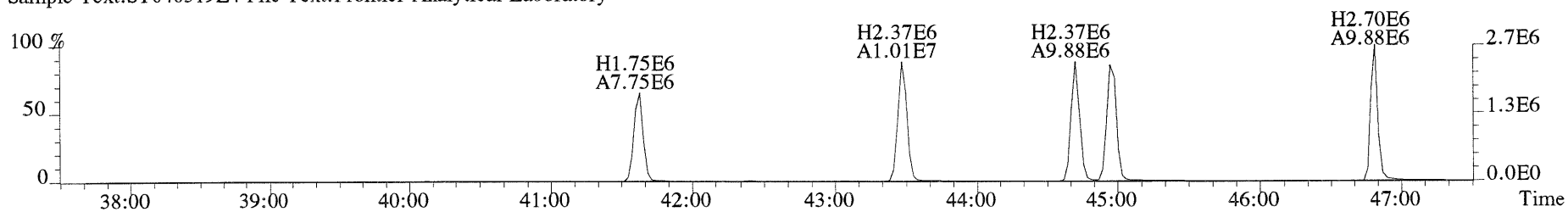
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



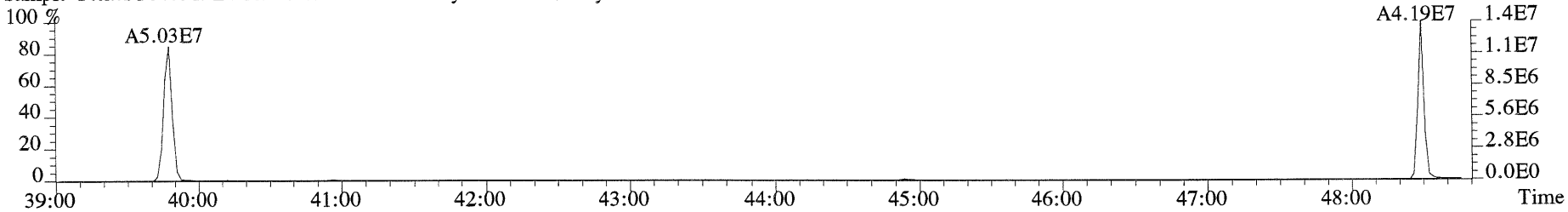
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



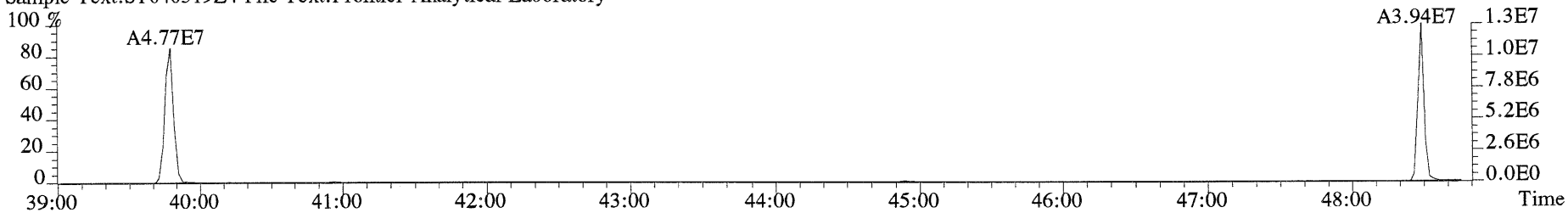
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



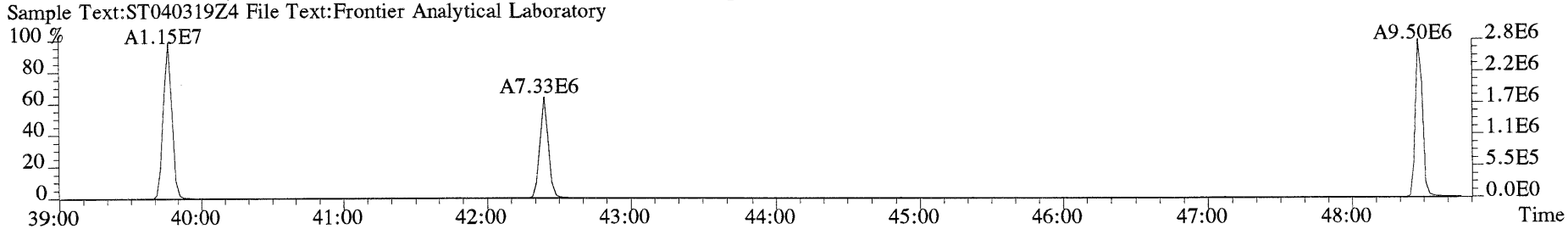
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



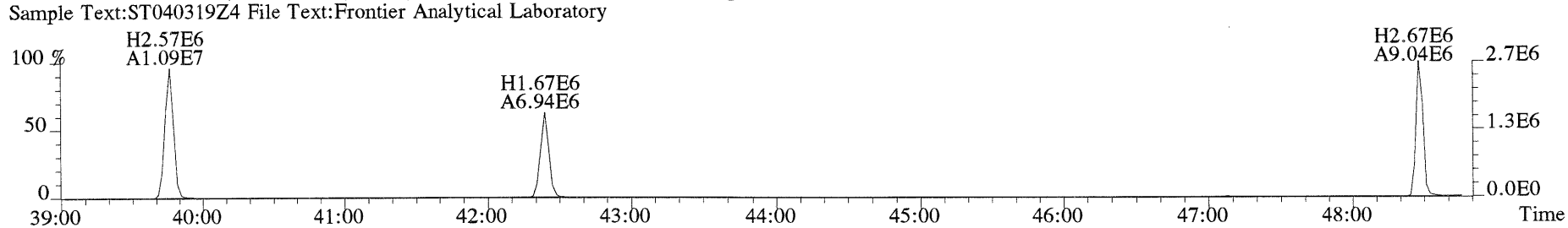
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



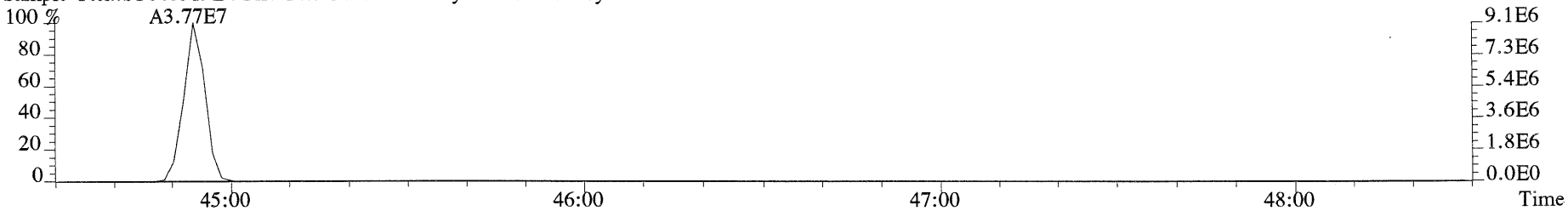
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



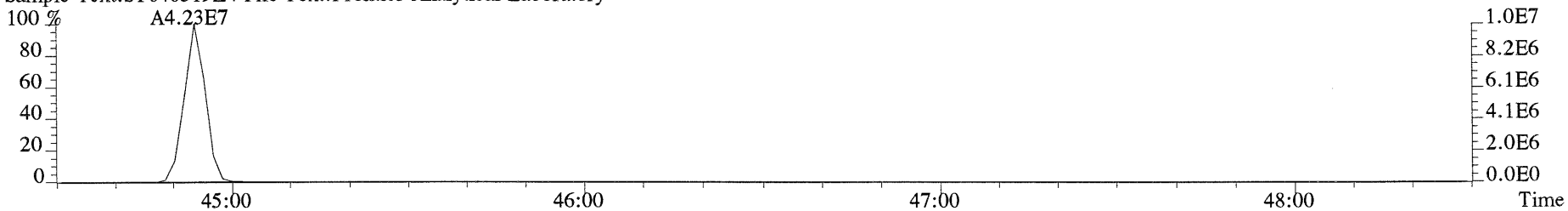
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



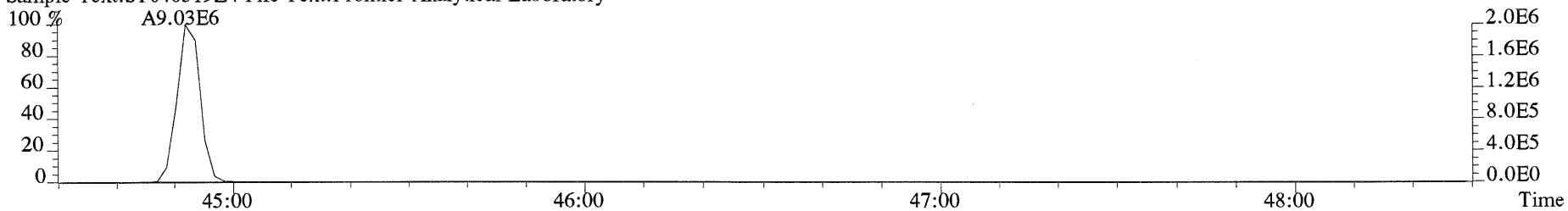
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



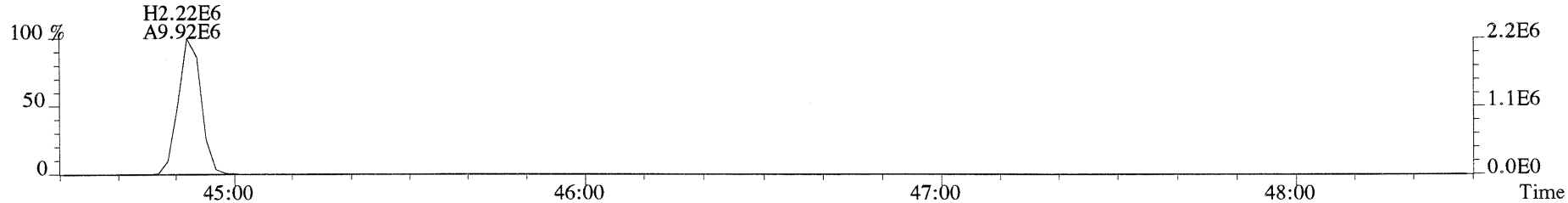
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



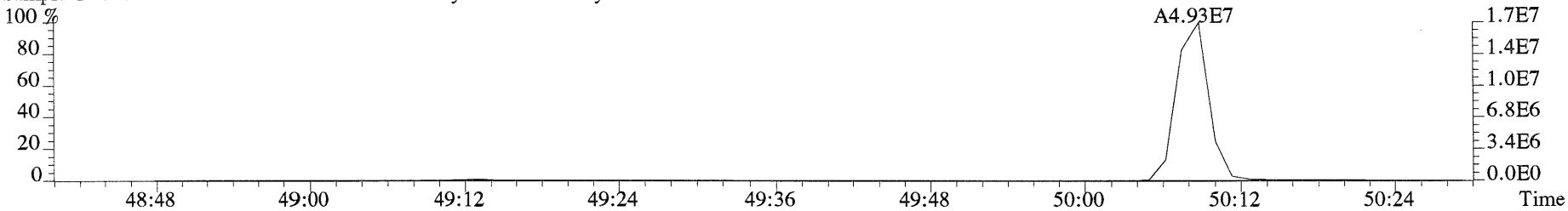
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



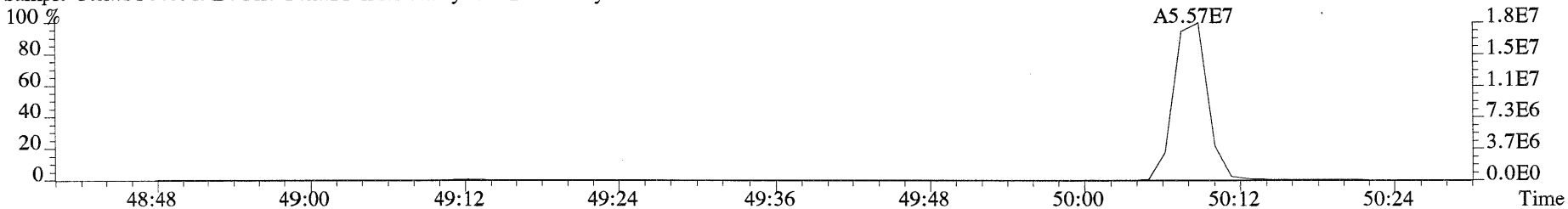
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



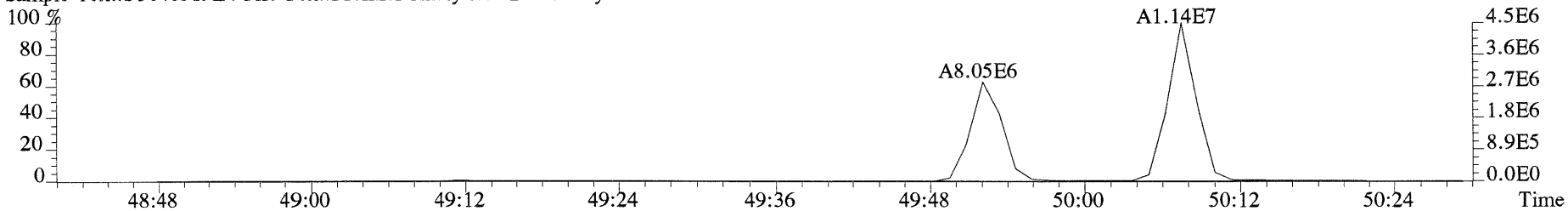
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



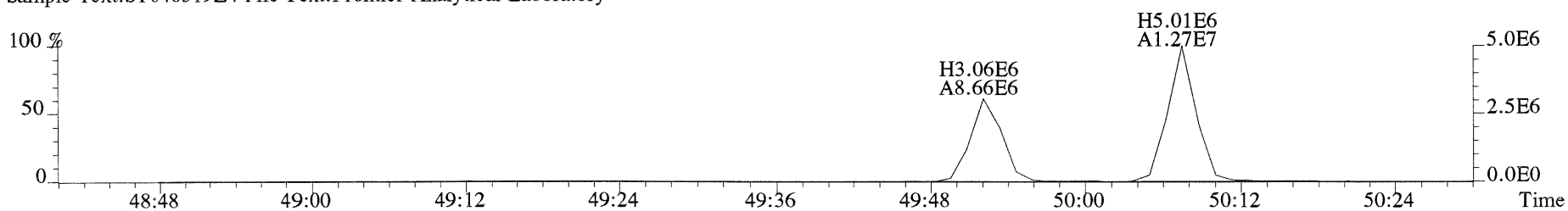
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



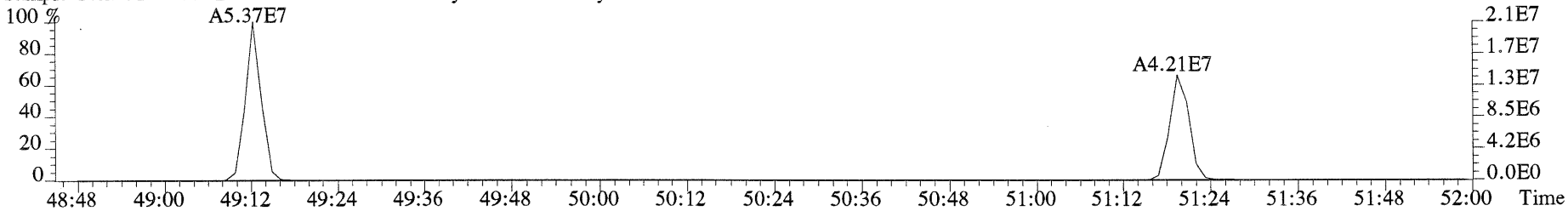
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



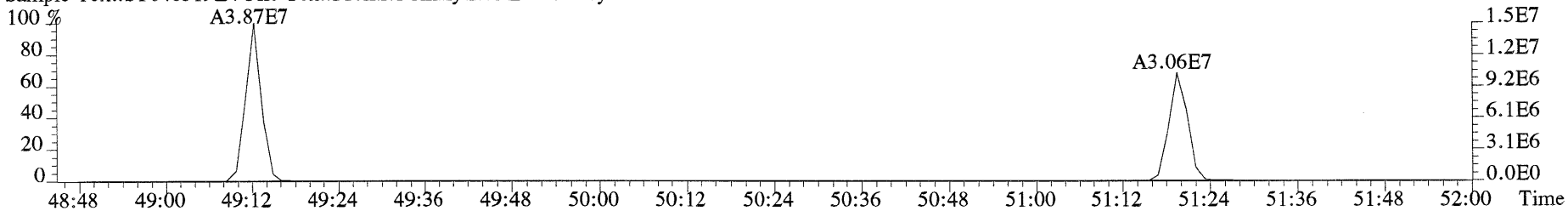
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



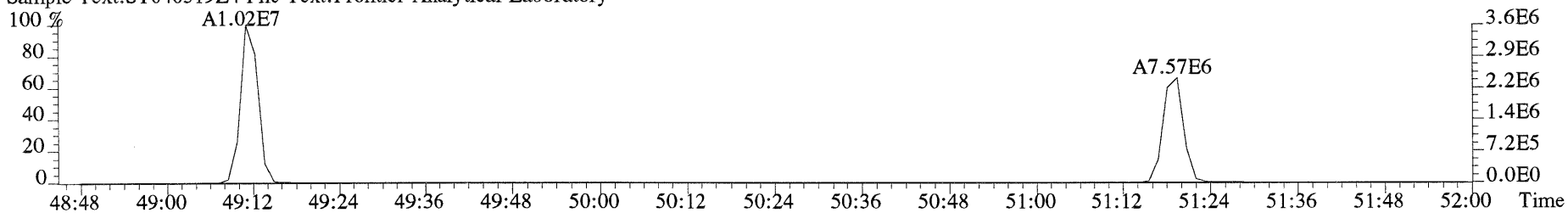
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



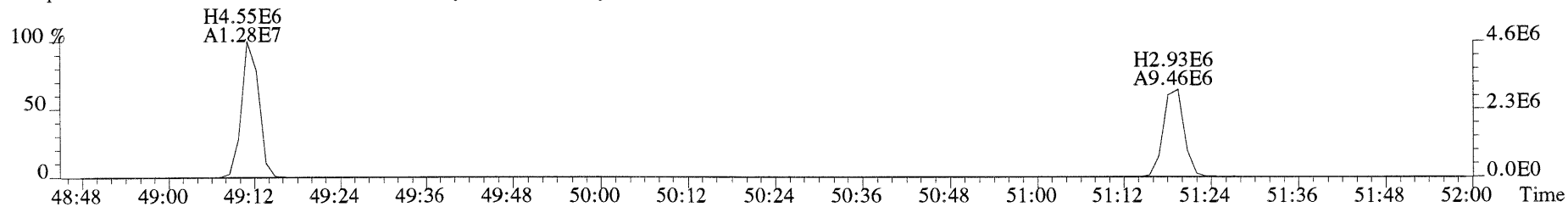
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



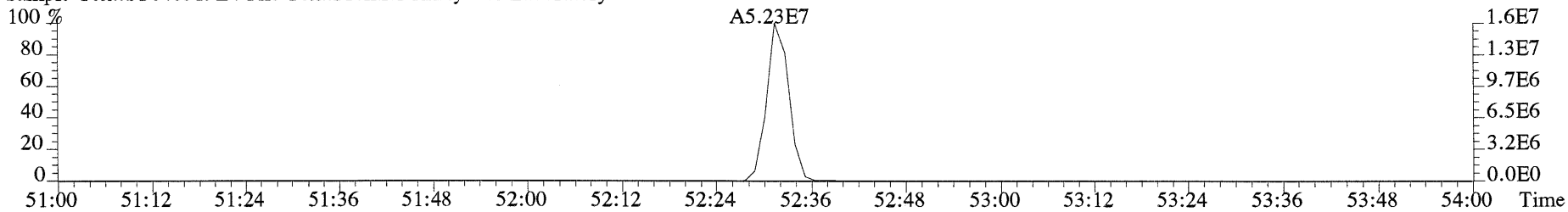
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



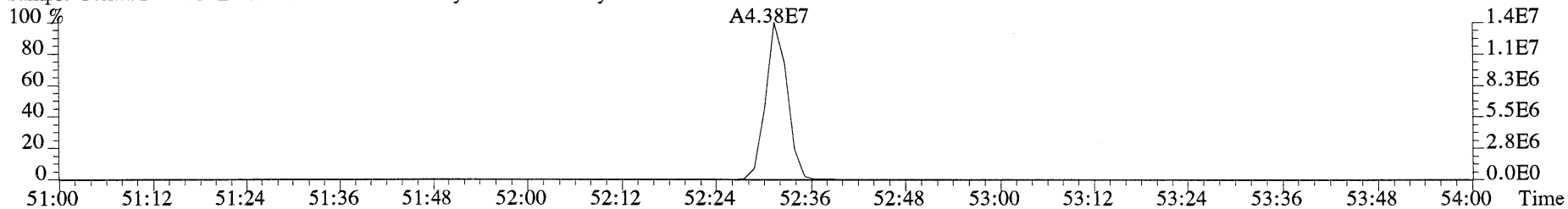
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



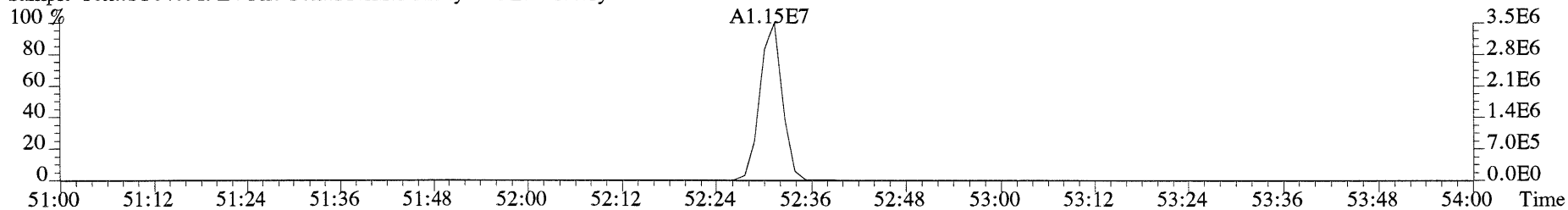
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



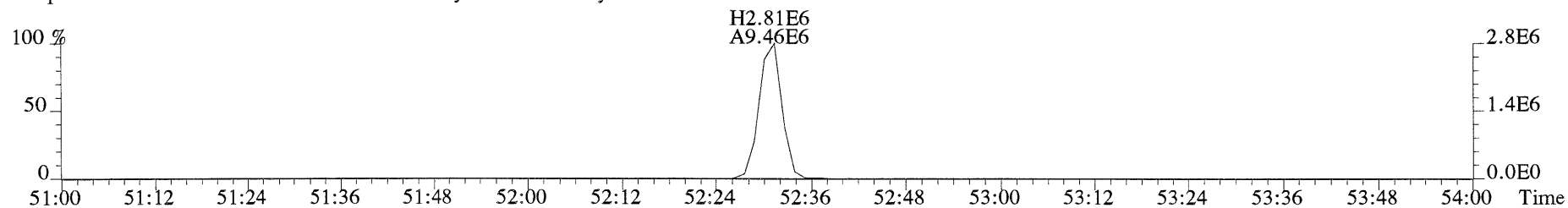
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



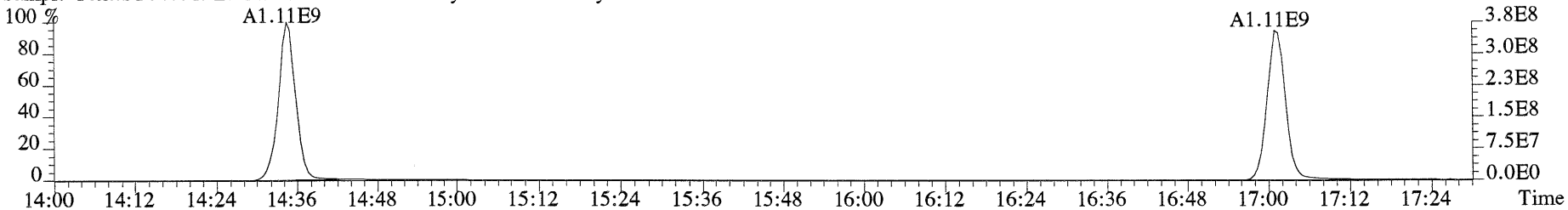
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



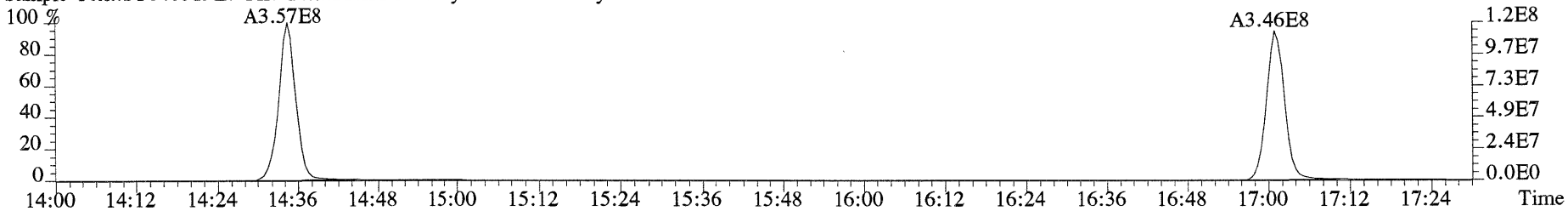
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



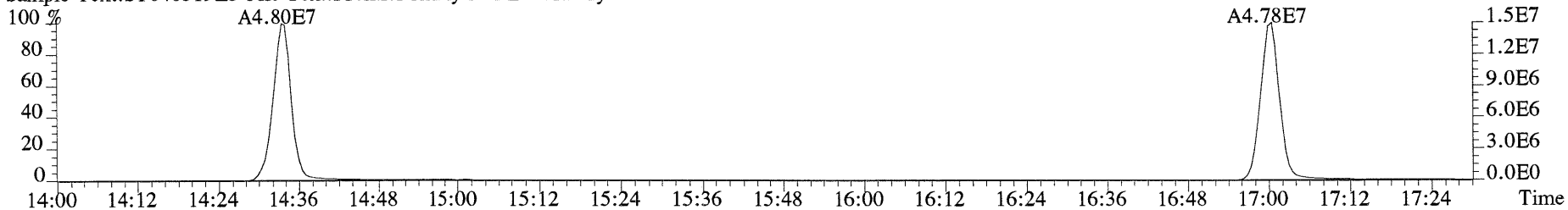
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



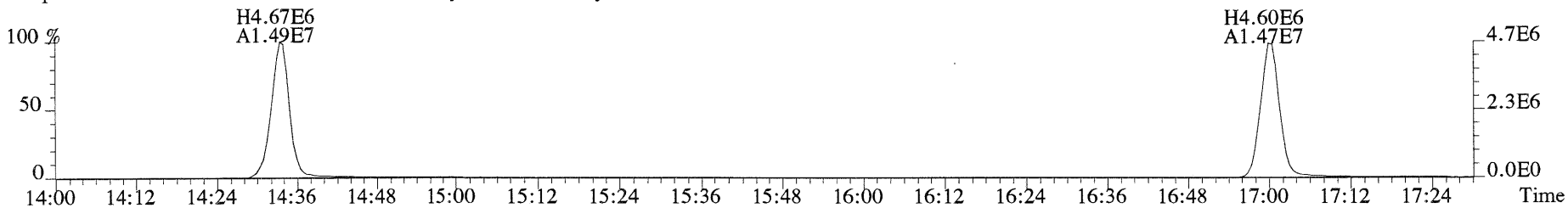
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



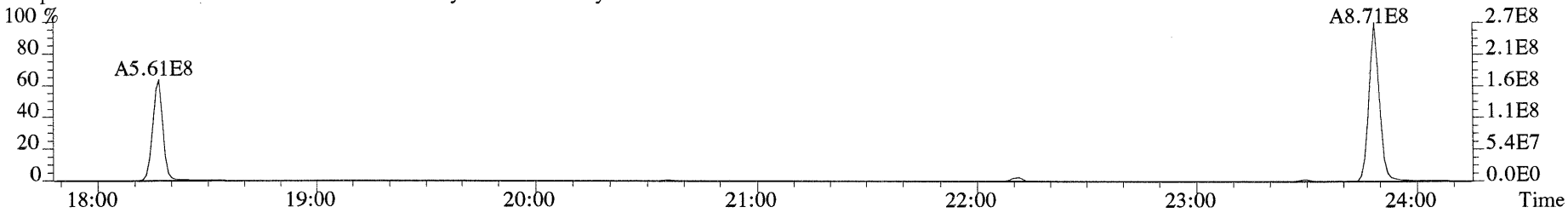
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



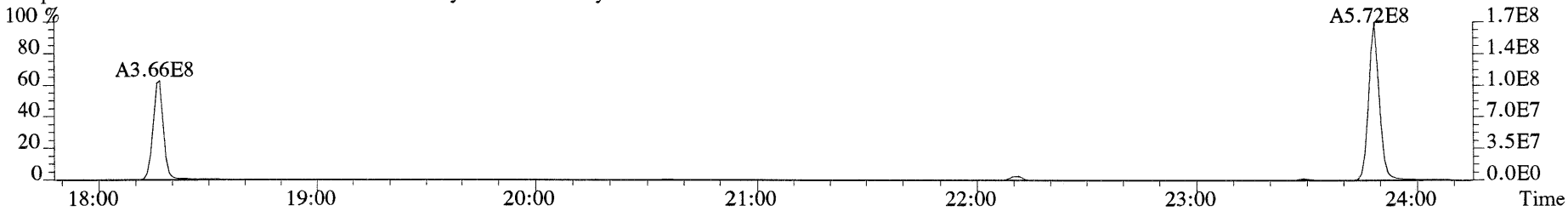
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



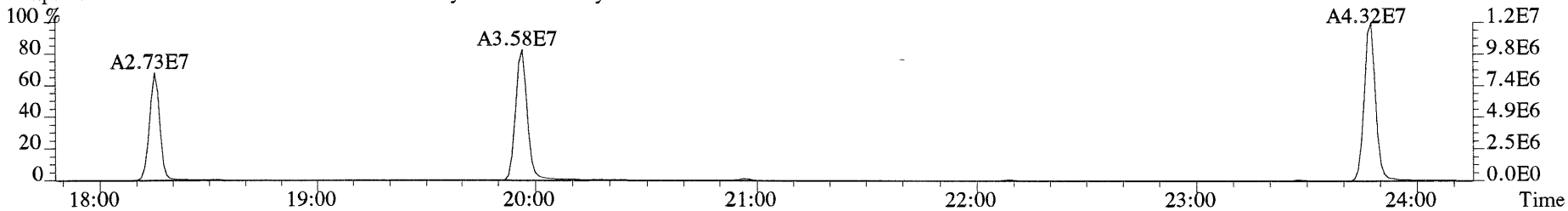
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



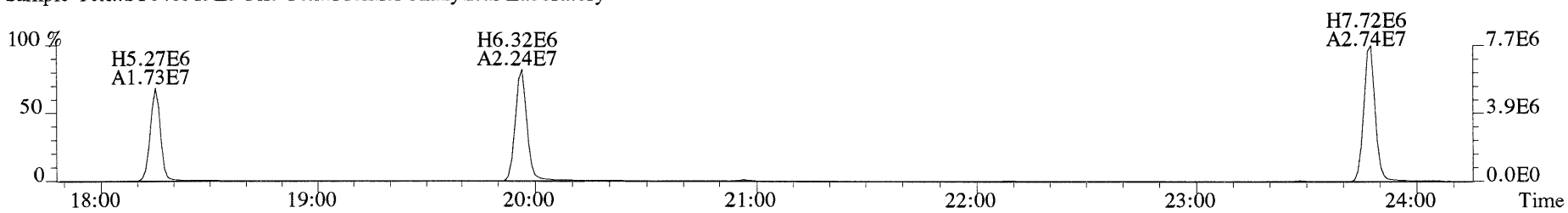
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



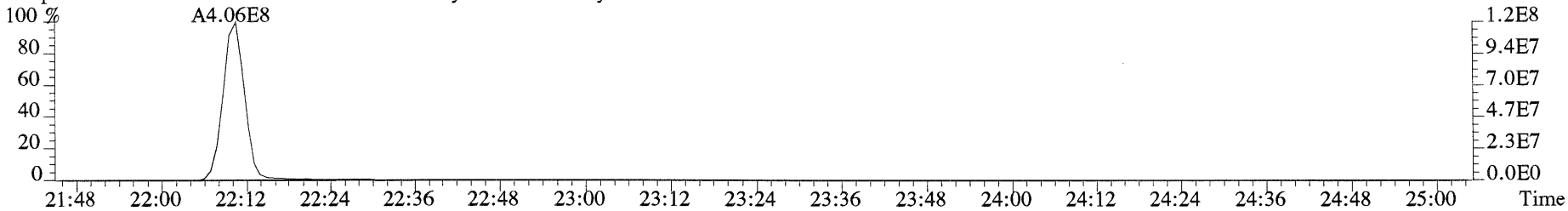
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



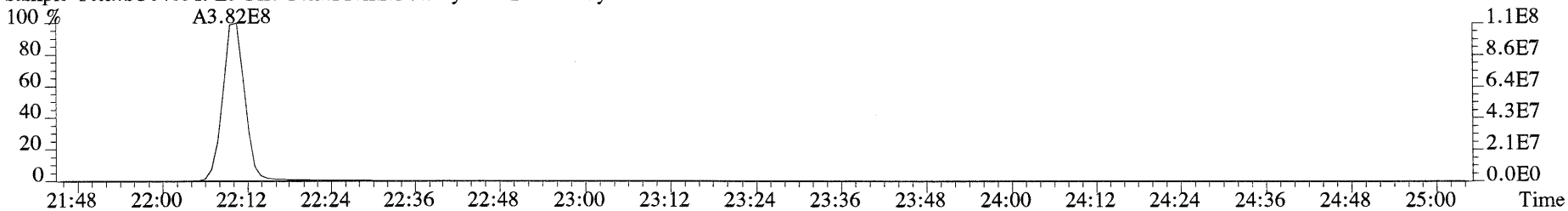
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



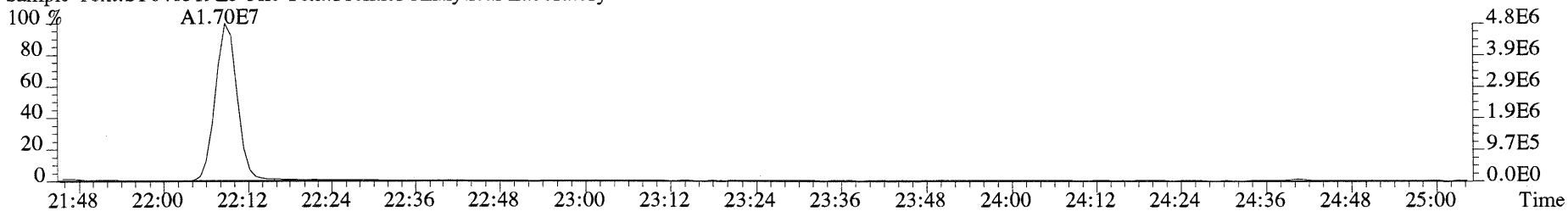
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



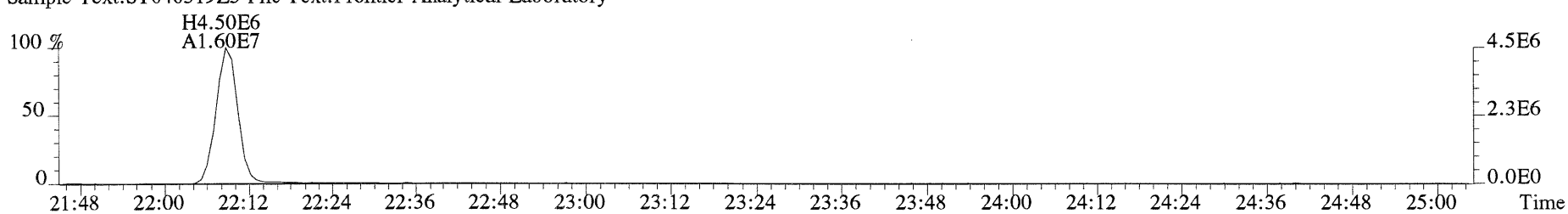
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



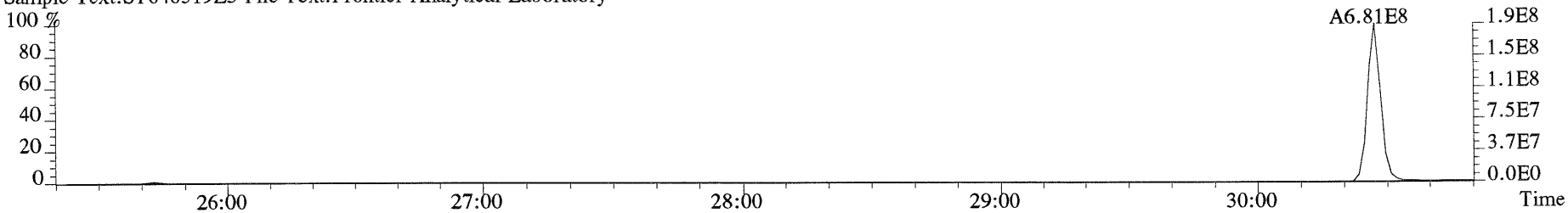
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



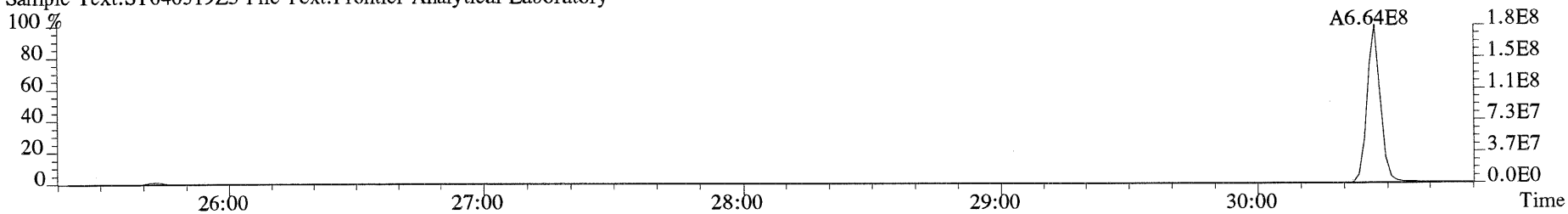
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



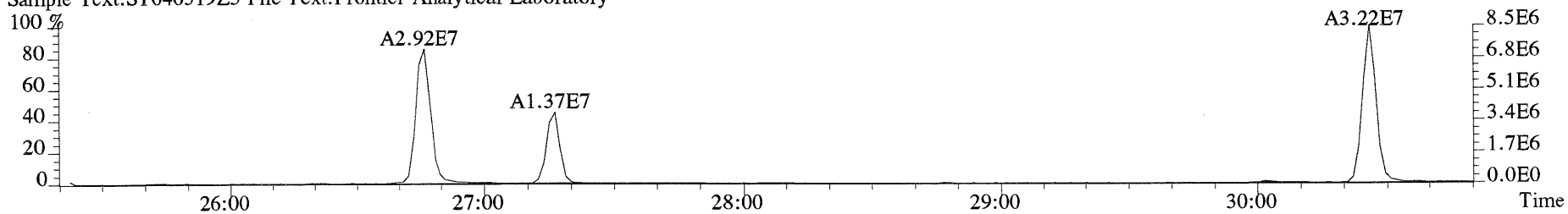
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



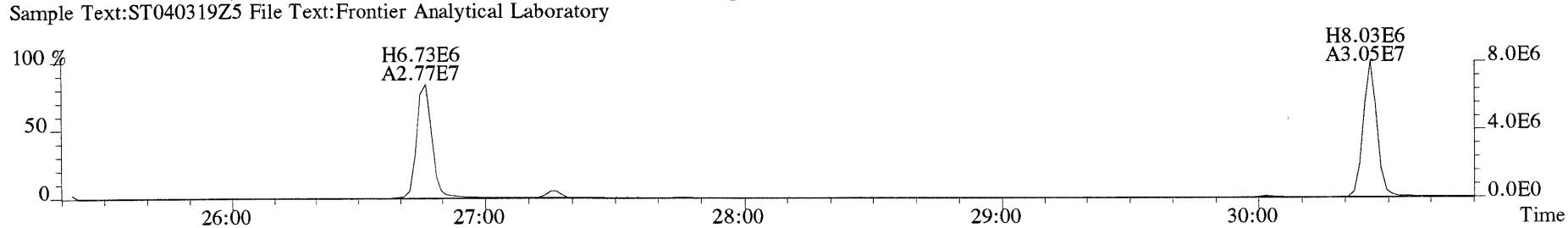
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



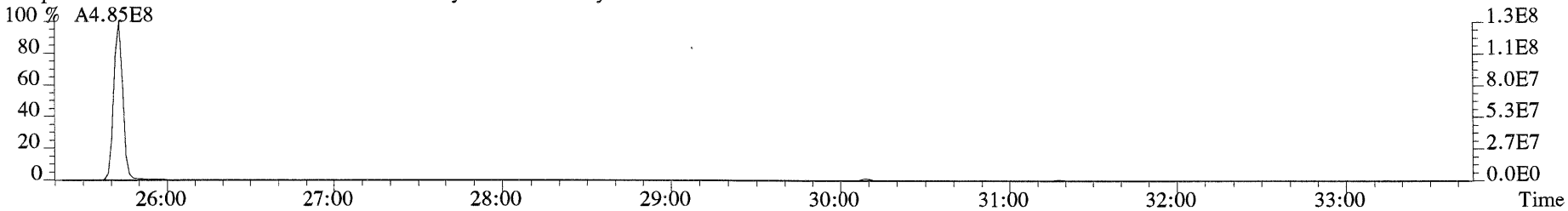
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



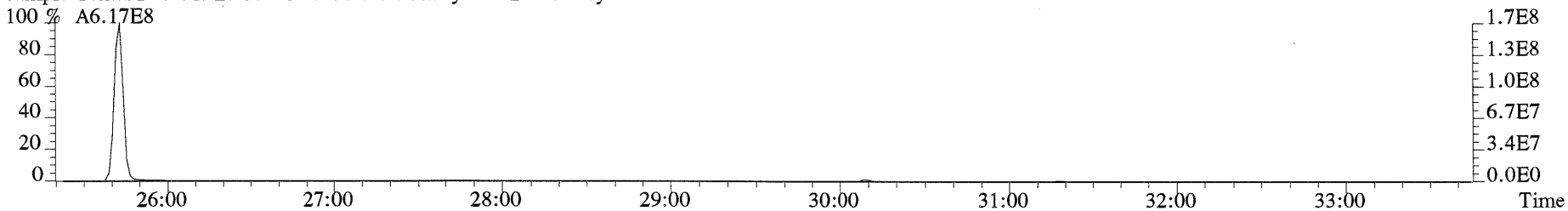
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



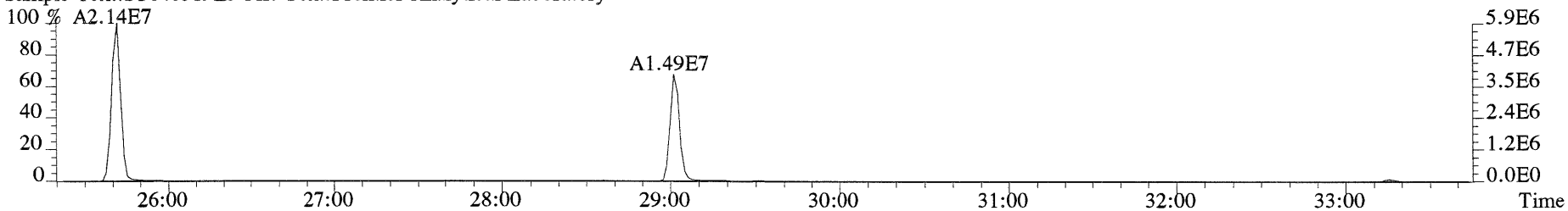
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



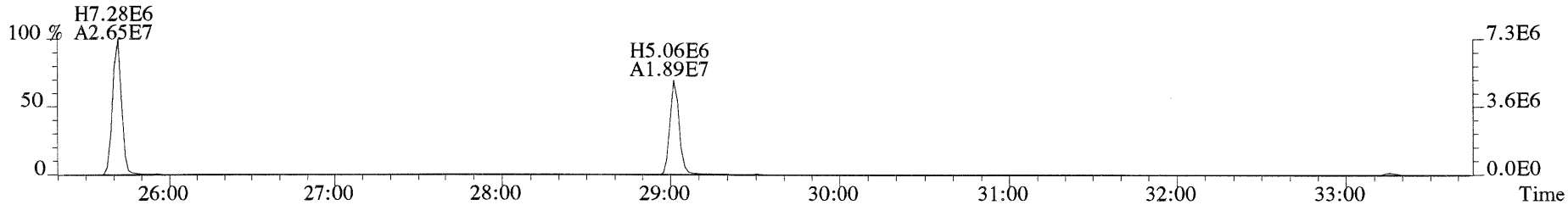
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



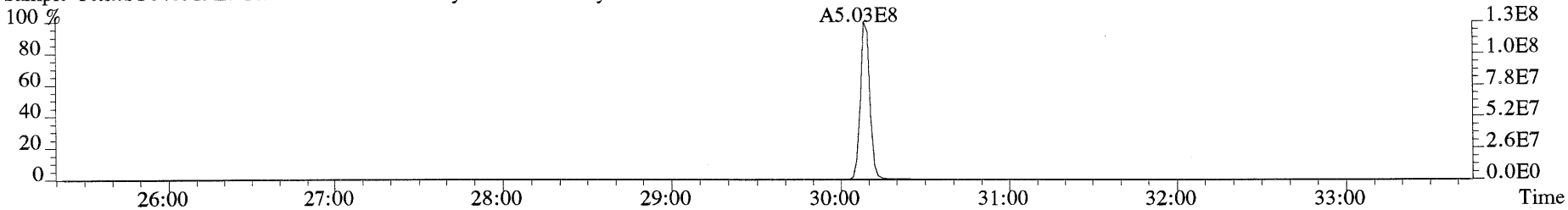
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



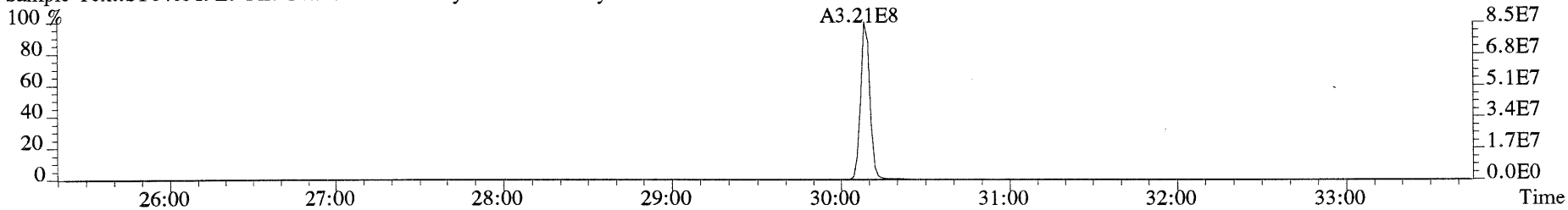
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



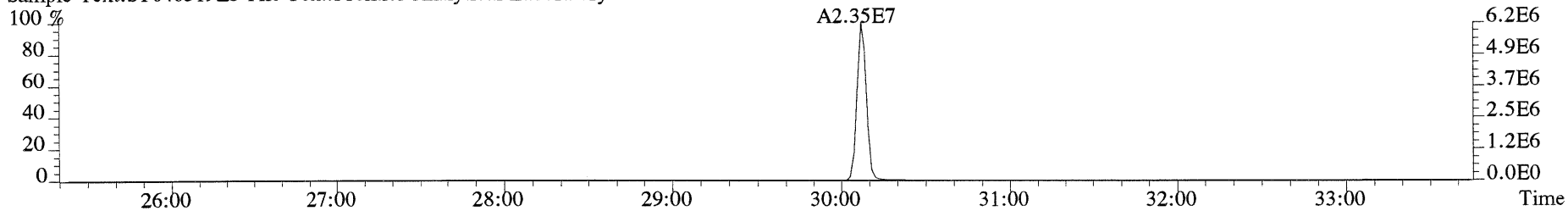
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



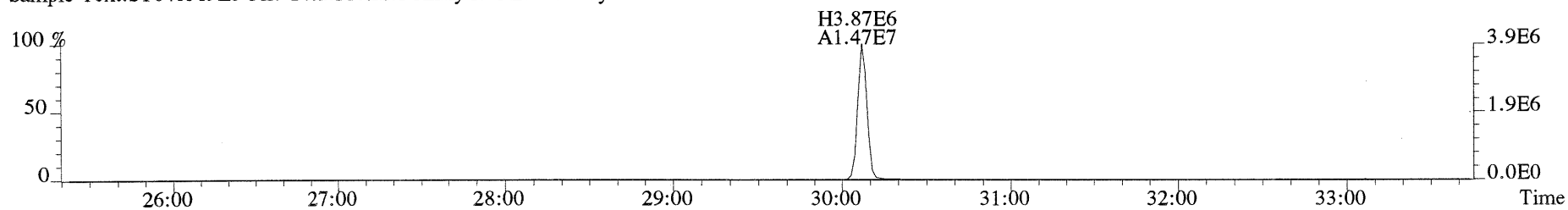
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



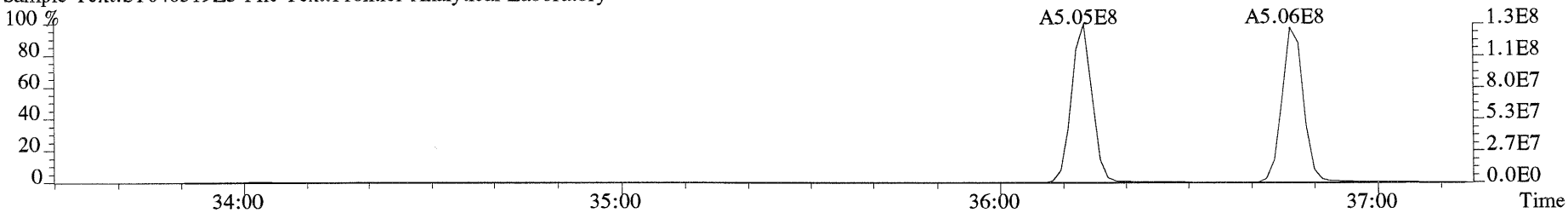
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



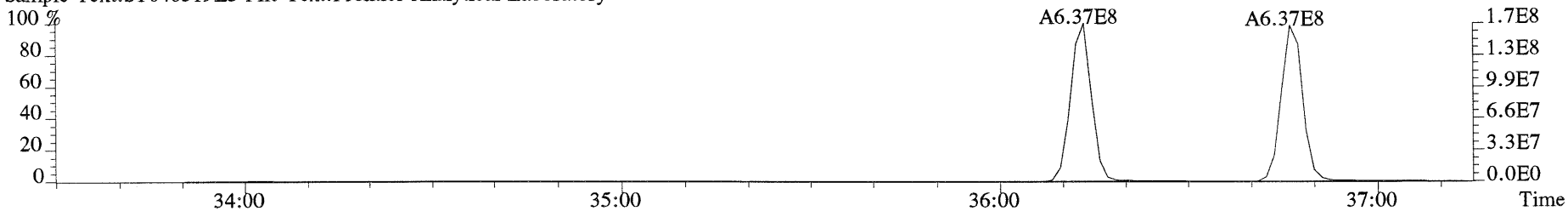
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



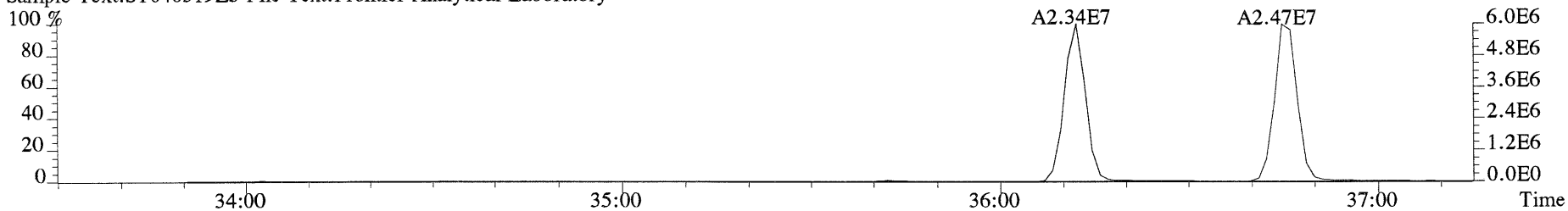
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



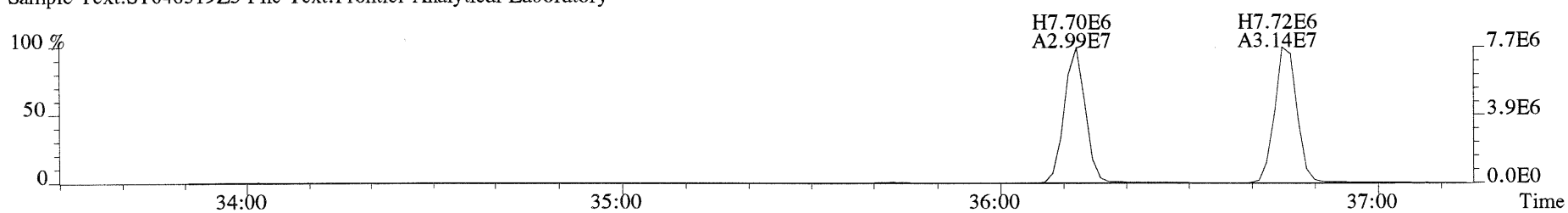
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



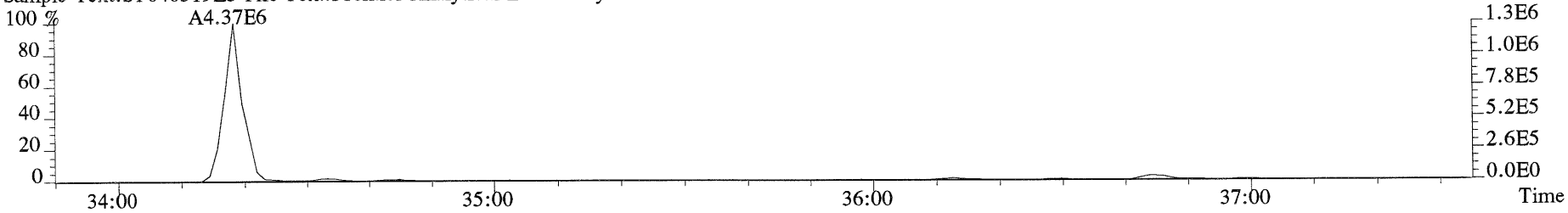
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



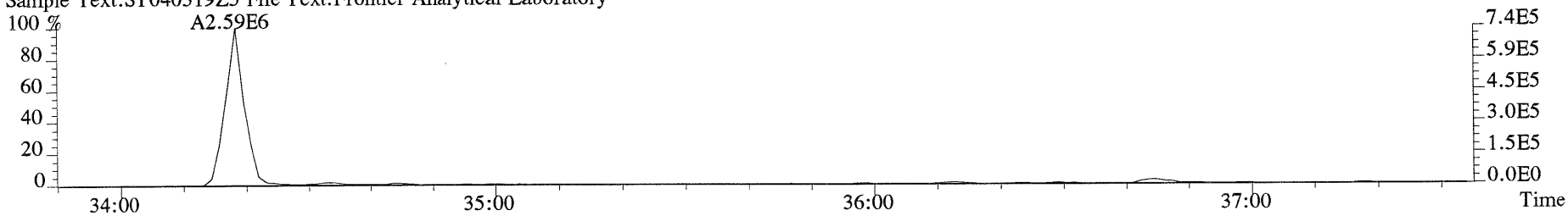
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



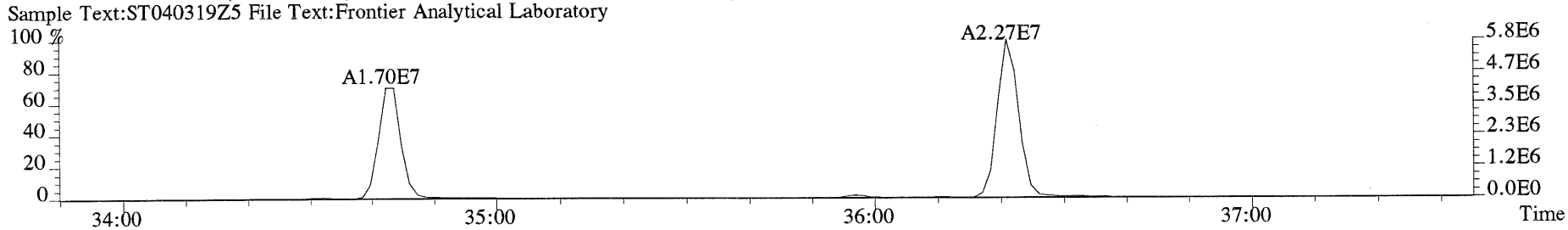
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



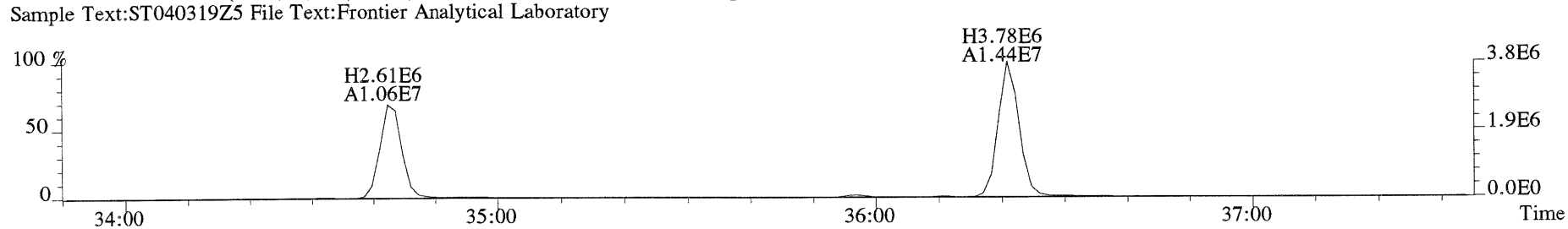
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



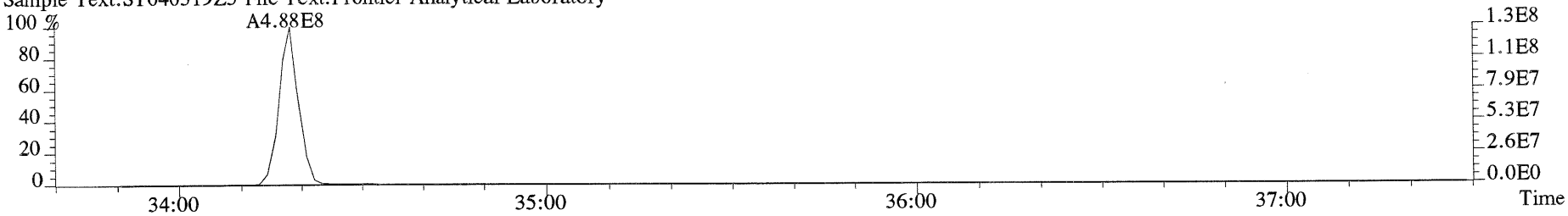
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



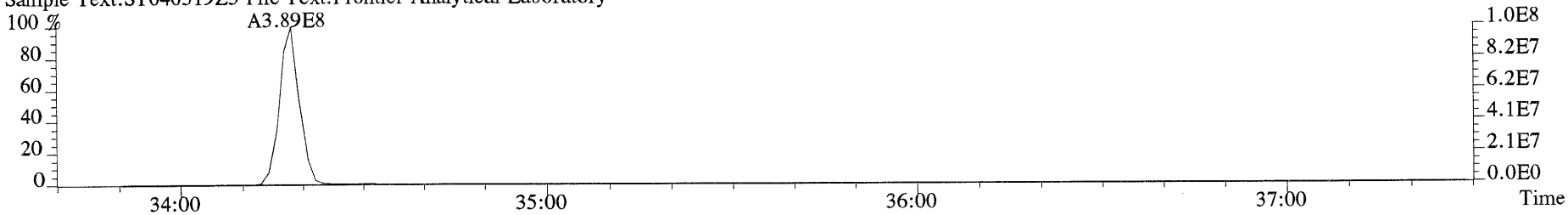
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



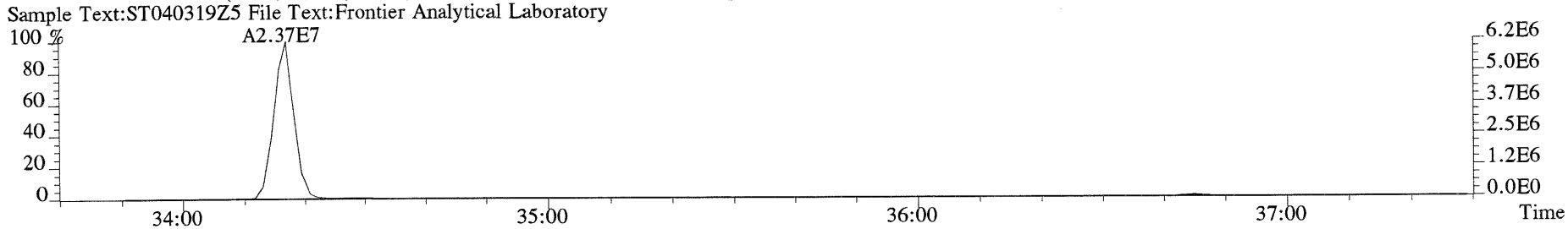
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



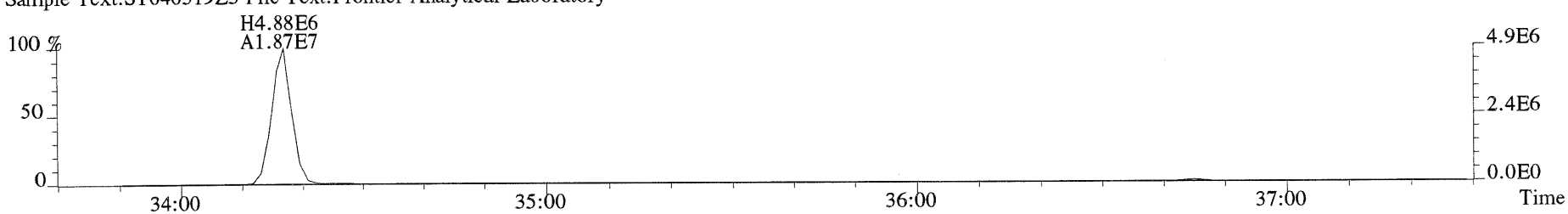
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



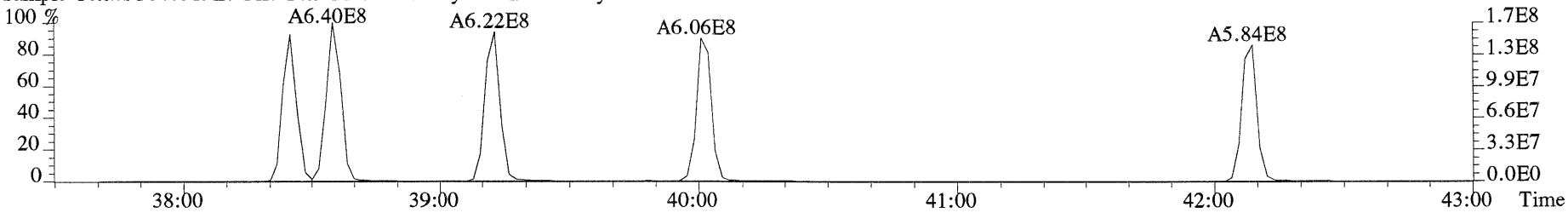
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



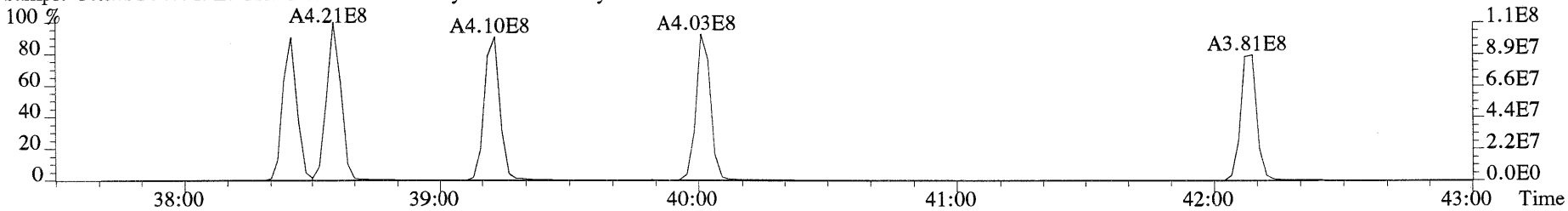
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



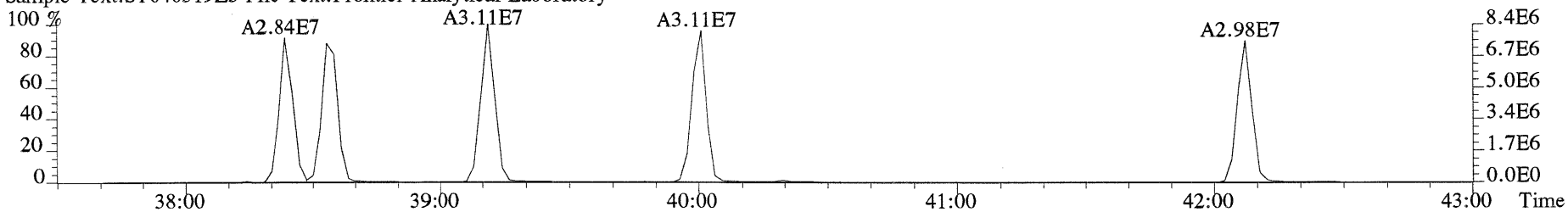
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



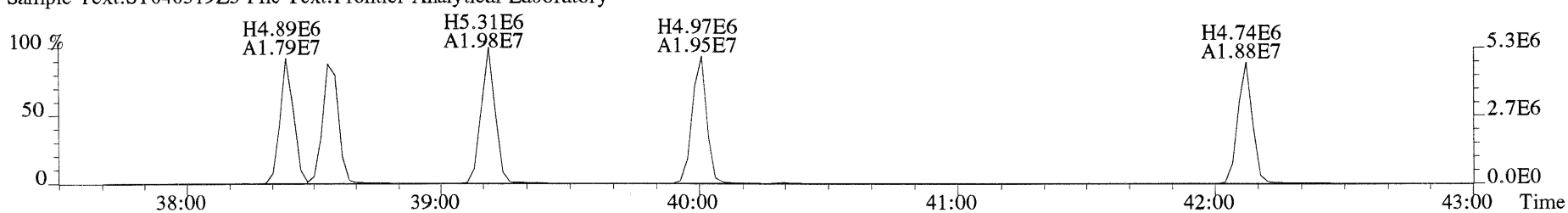
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



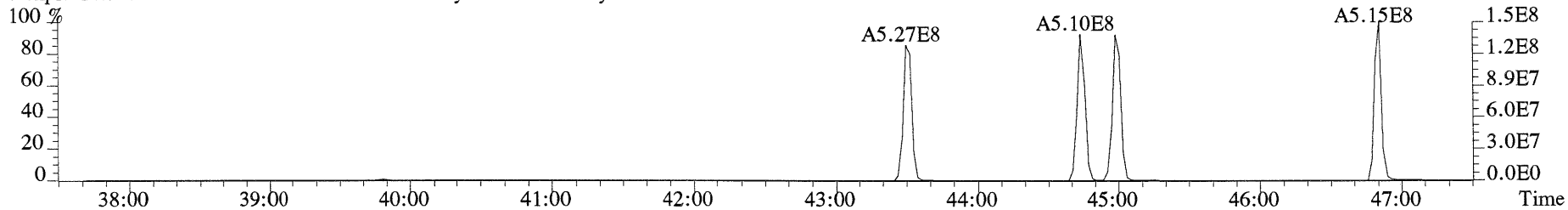
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



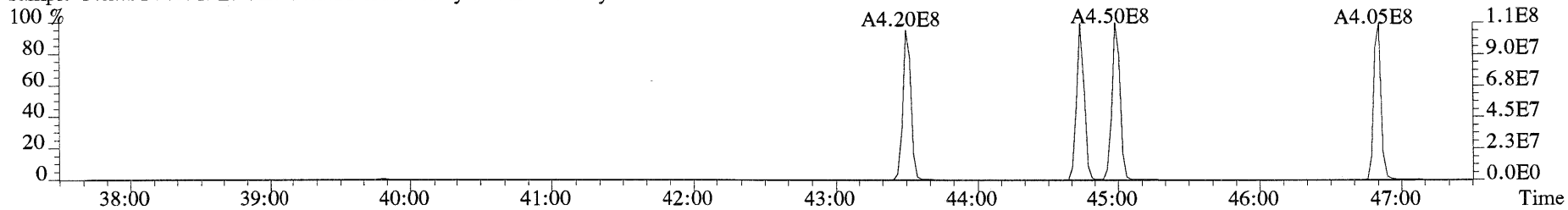
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



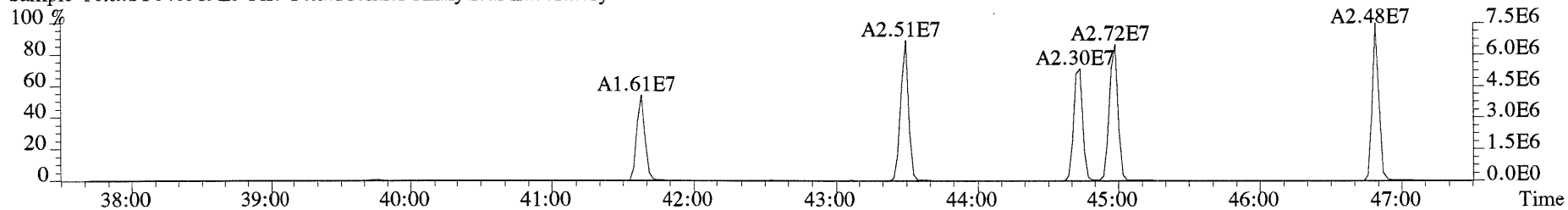
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



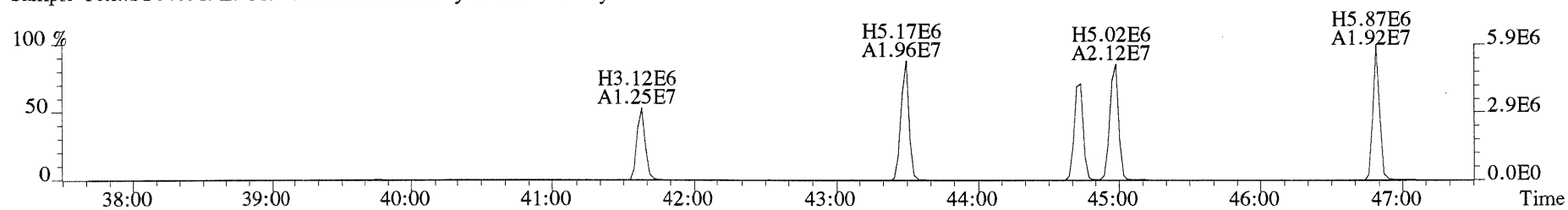
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



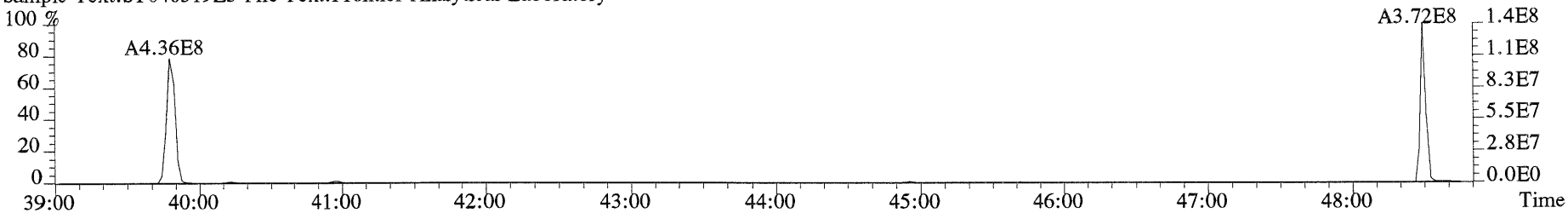
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



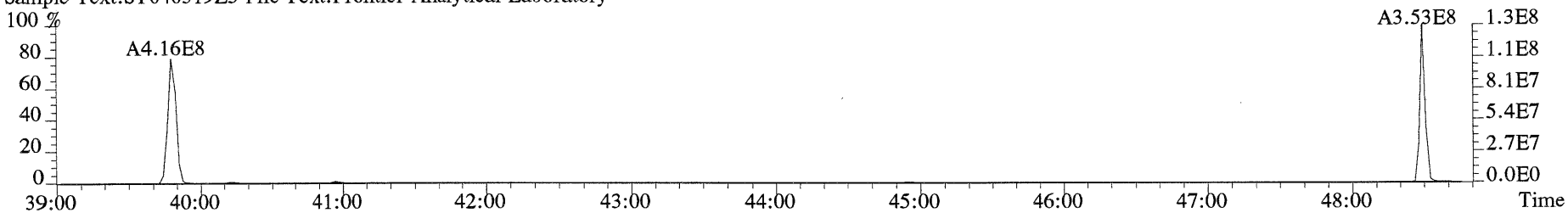
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



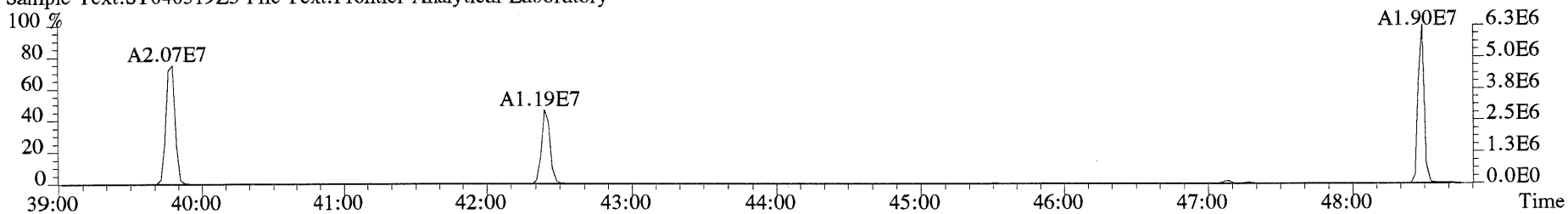
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



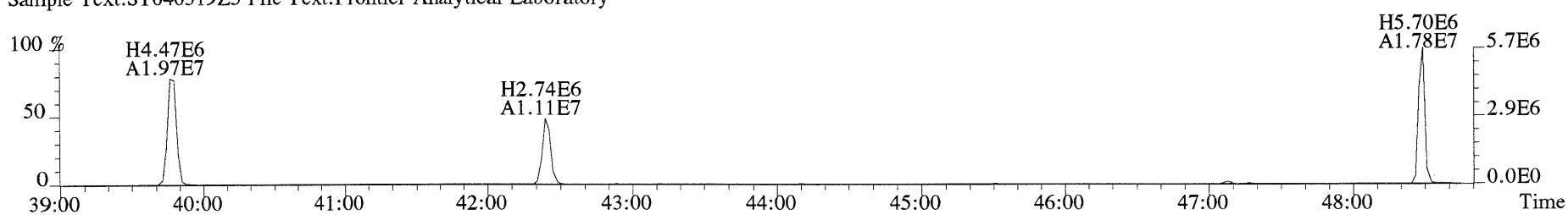
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



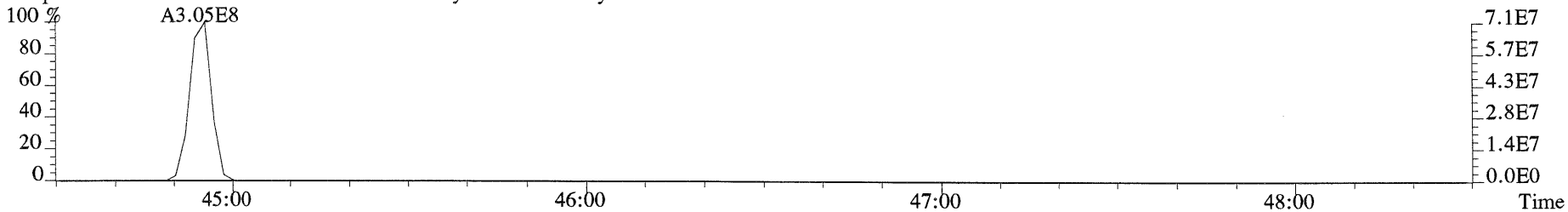
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



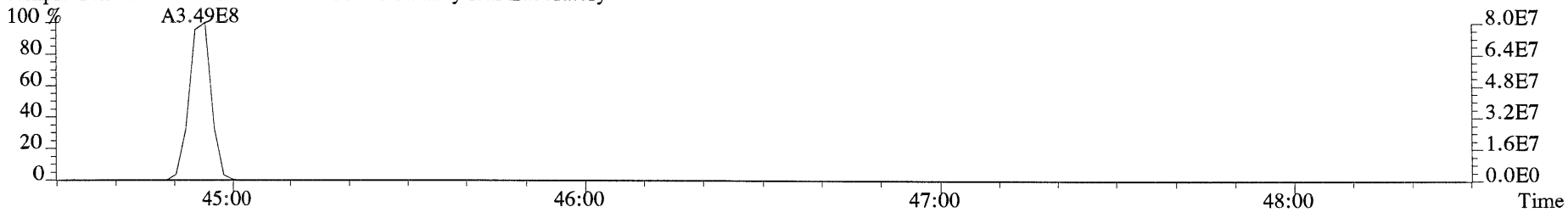
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



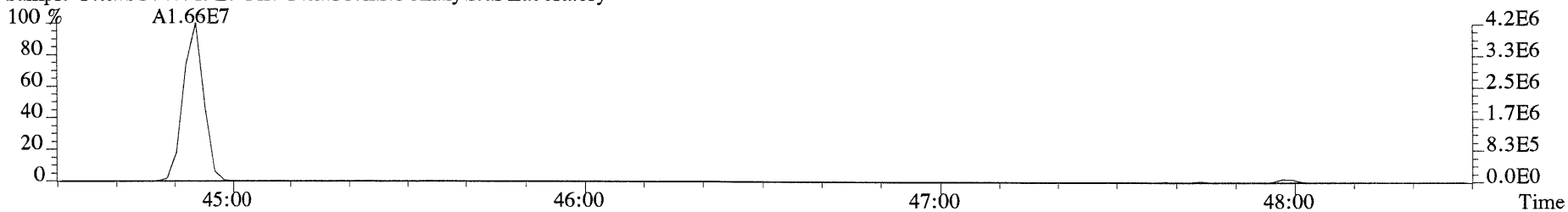
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



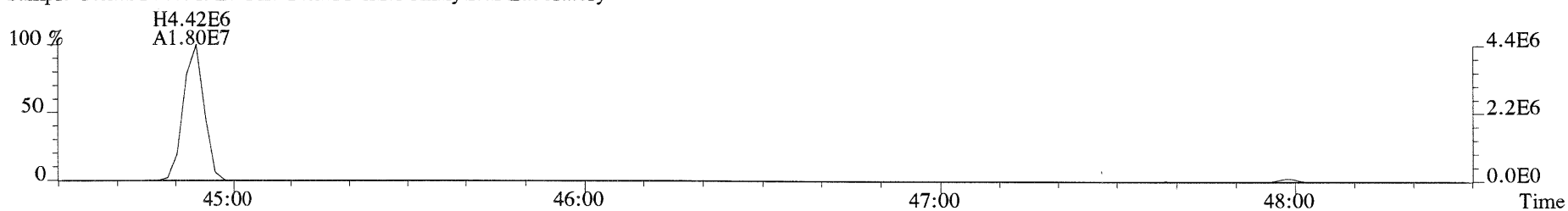
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



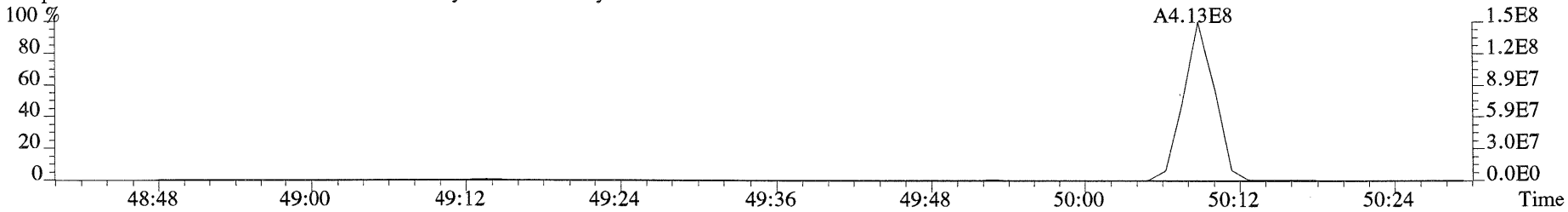
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



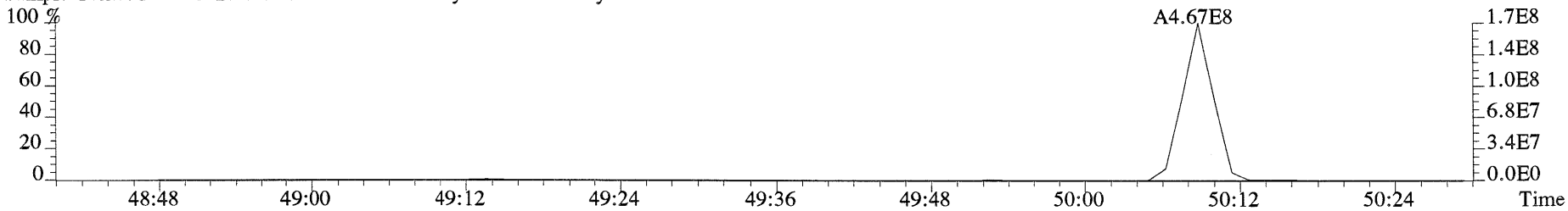
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



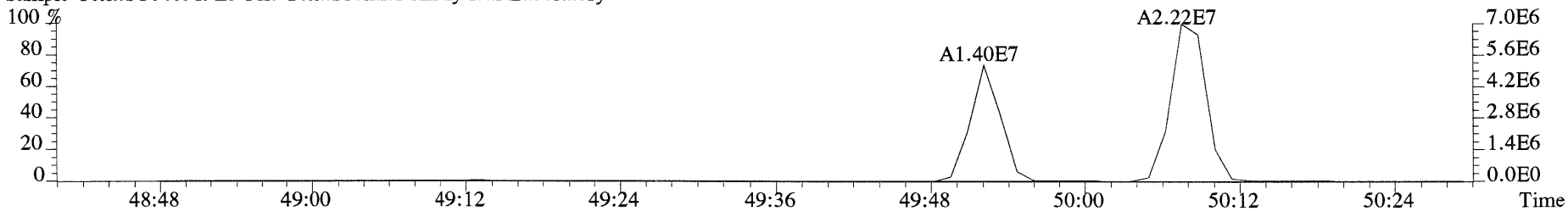
File:03APR19Z #1-272 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



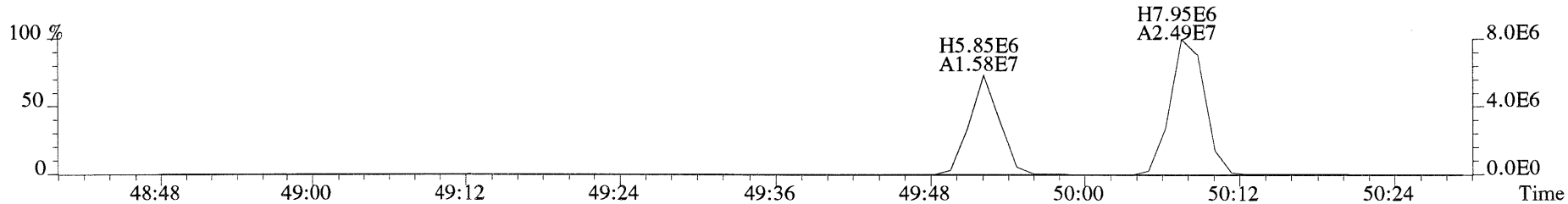
File:03APR19Z #1-273 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



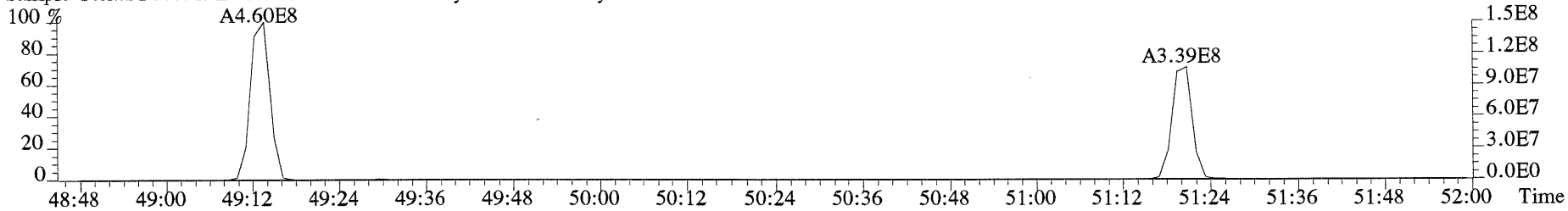
File:03APR19Z #1-273 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



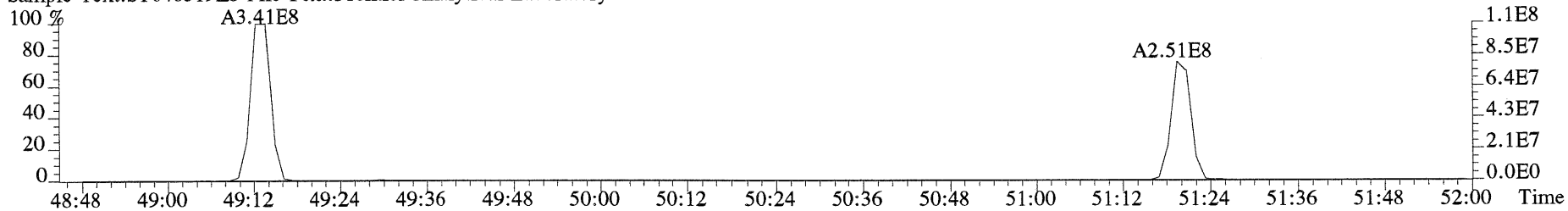
File:03APR19Z #1-273 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



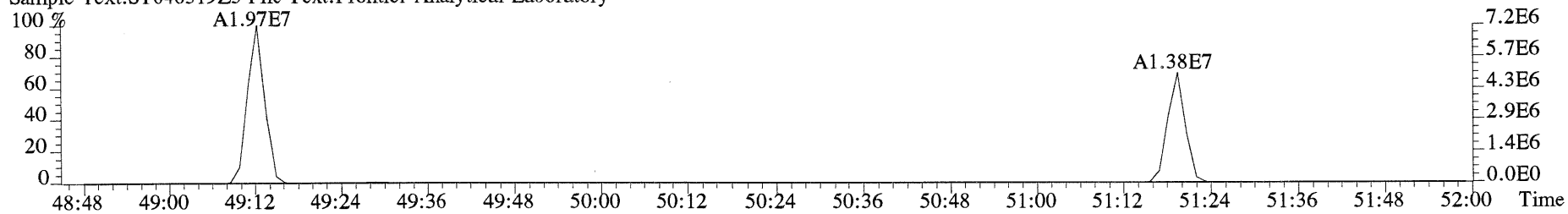
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



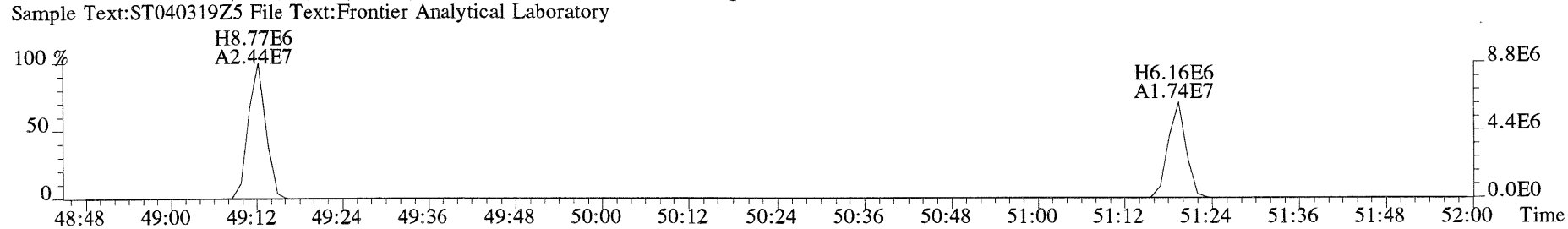
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



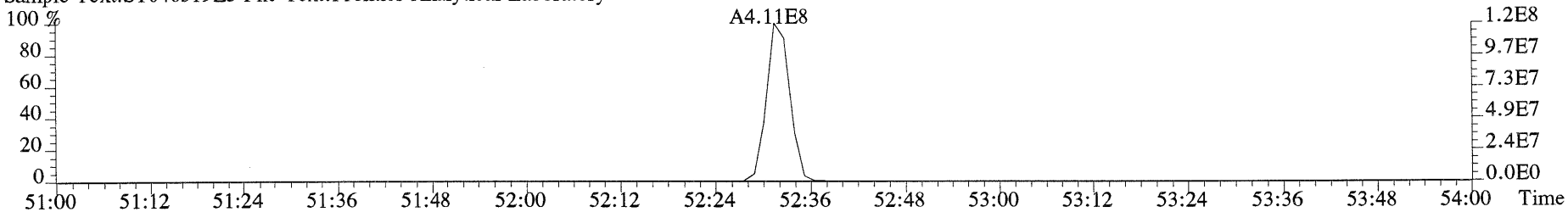
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



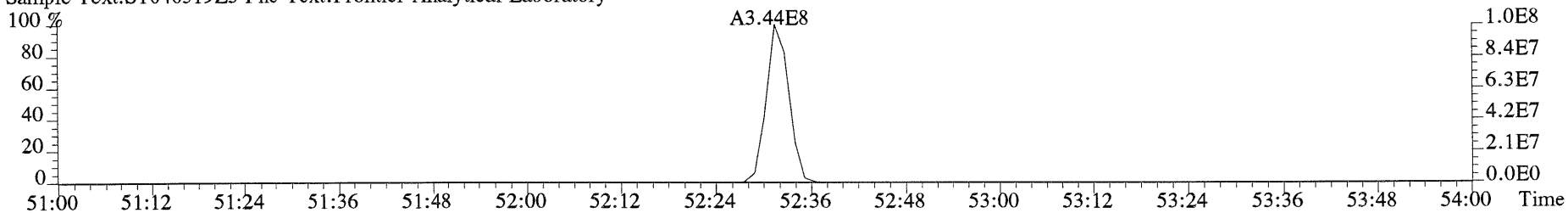
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



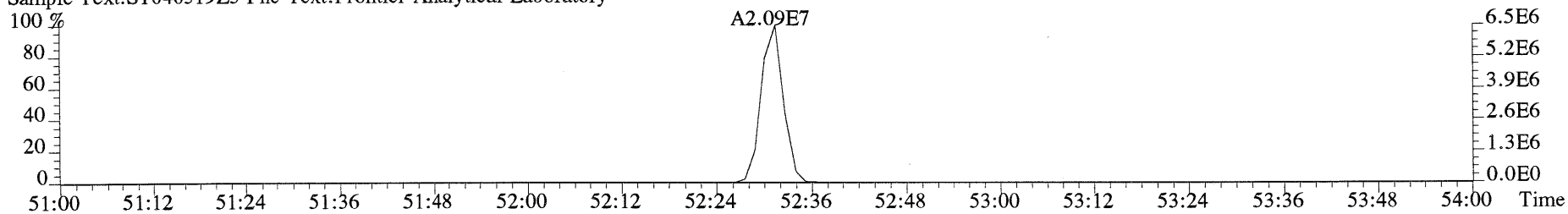
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



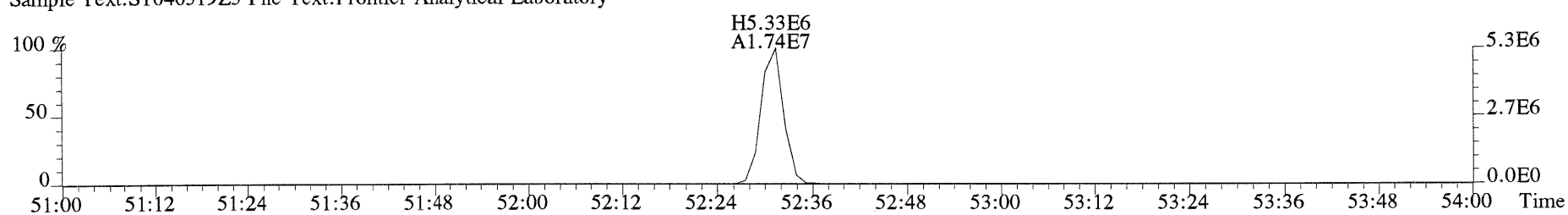
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



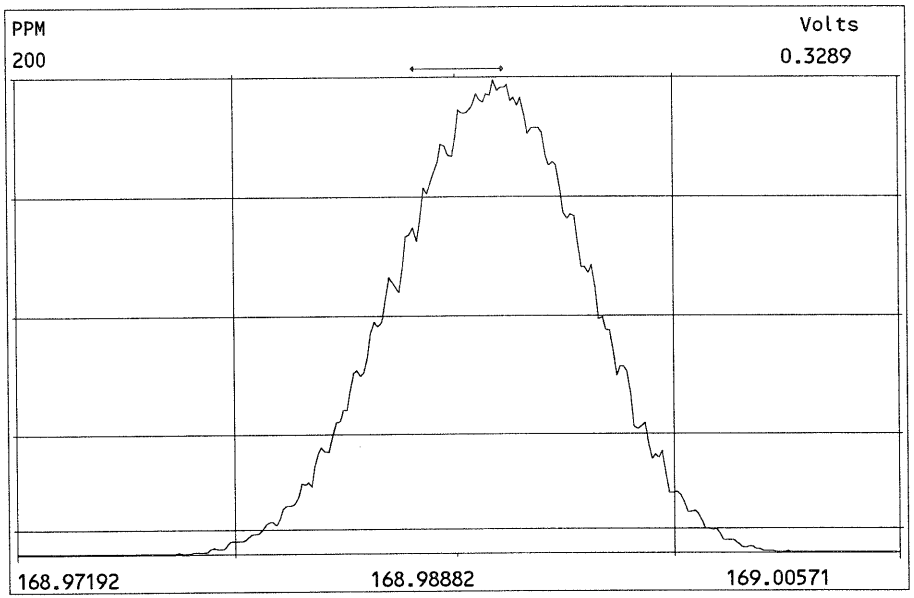
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory

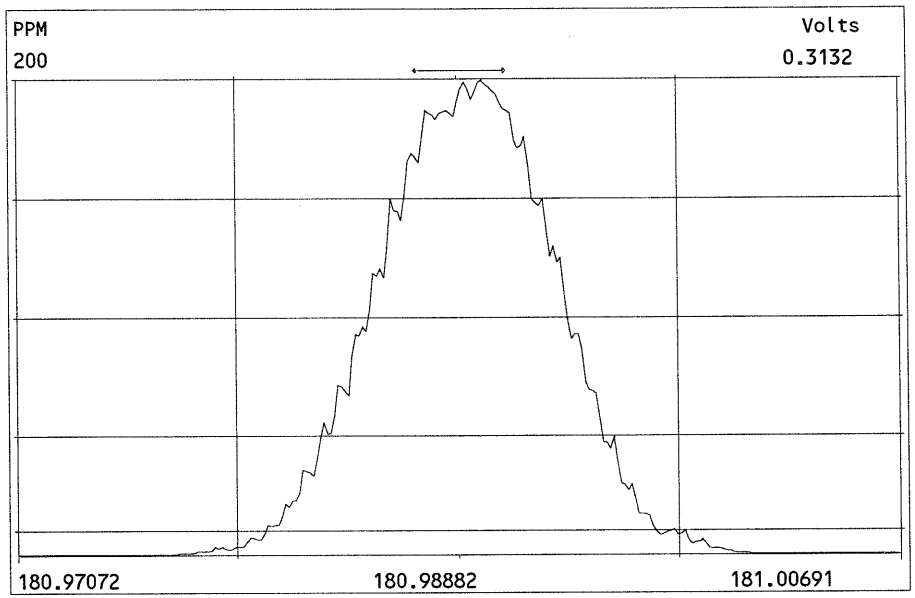


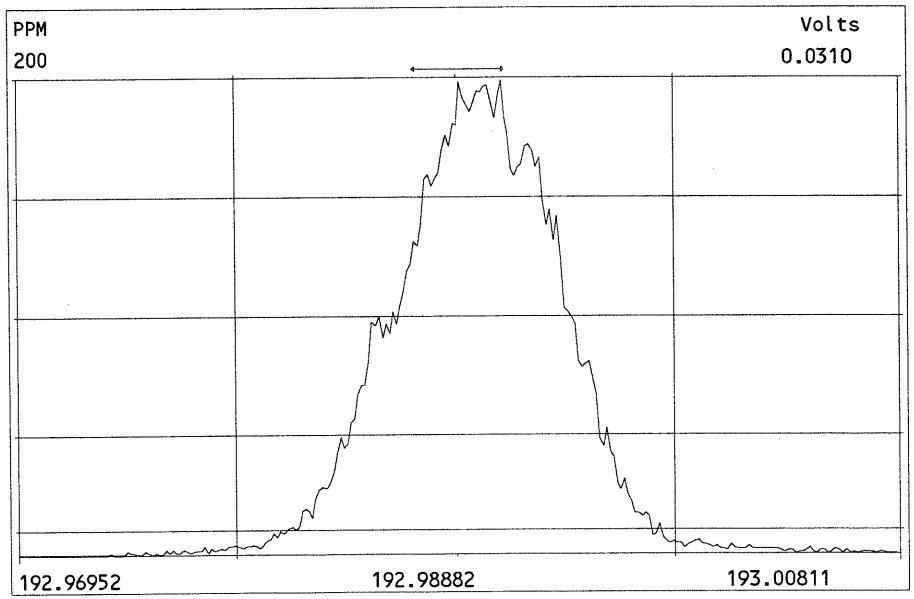
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory

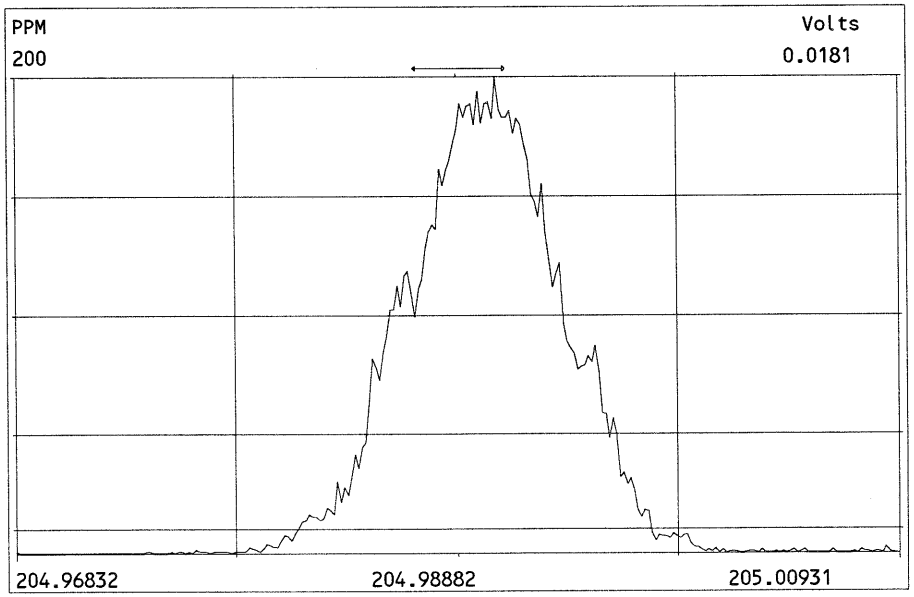


Peak Locate Examination: 3-APR-2019:21:48 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK 78

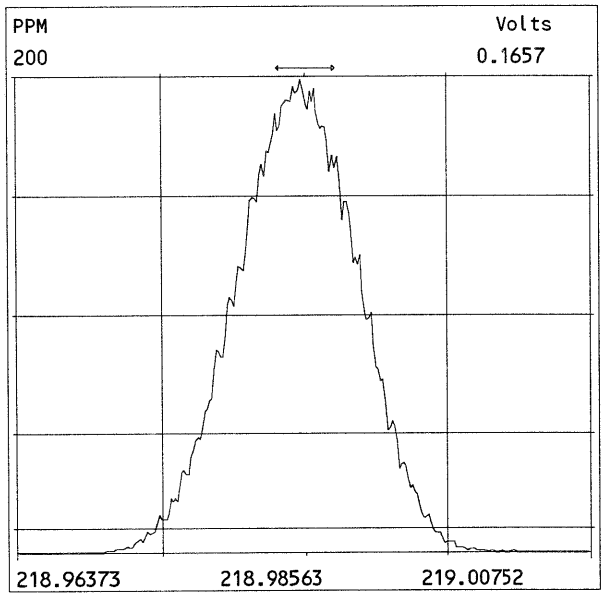


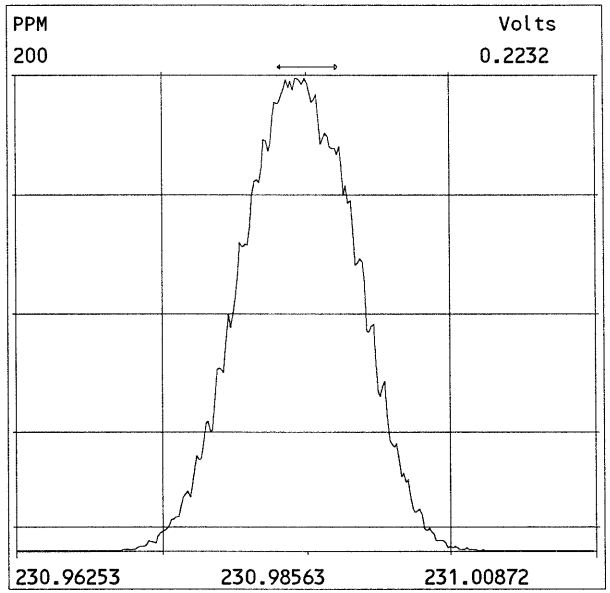


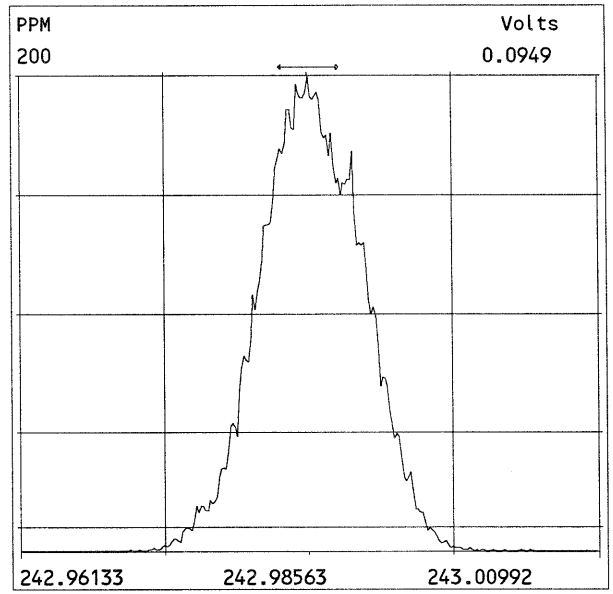


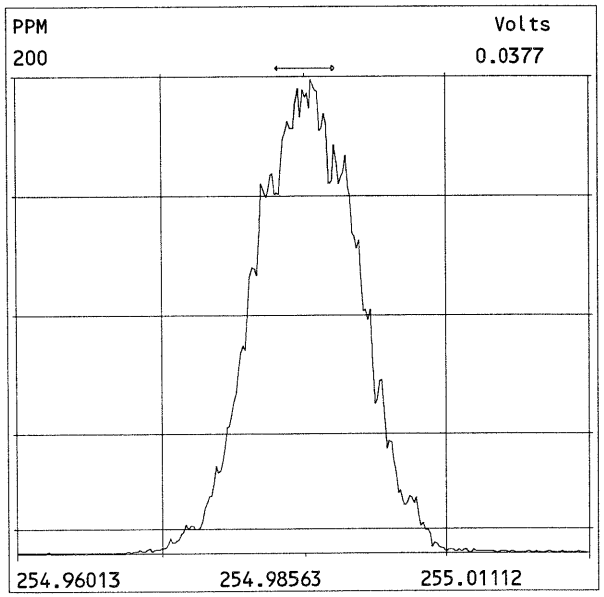


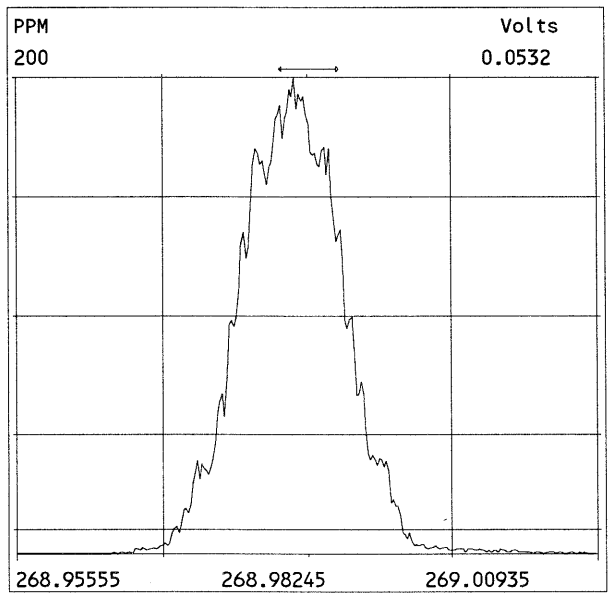
Peak Locate Examination: 3-APR-2019:21:50 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK 78

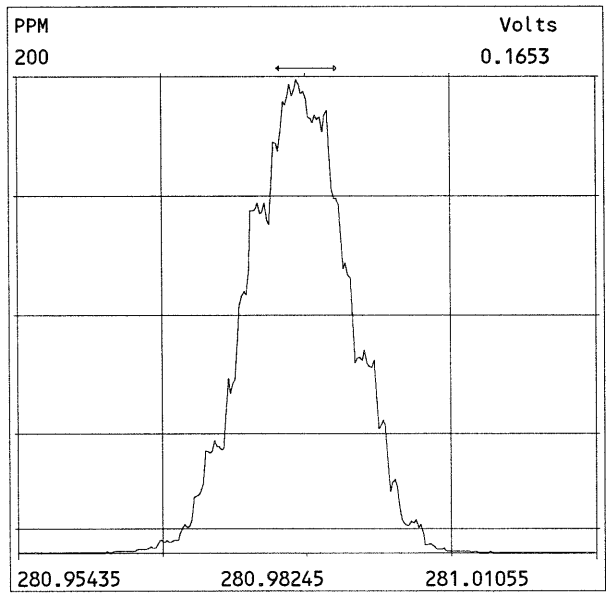




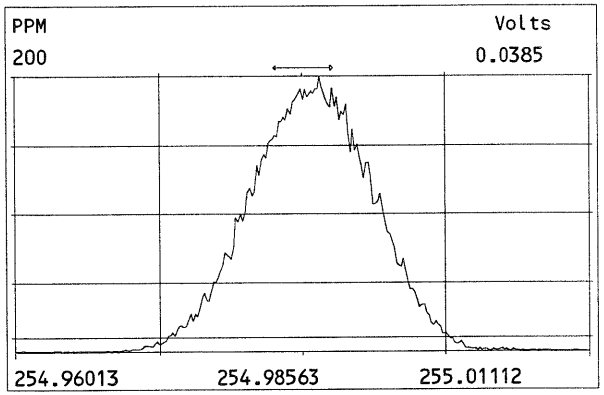


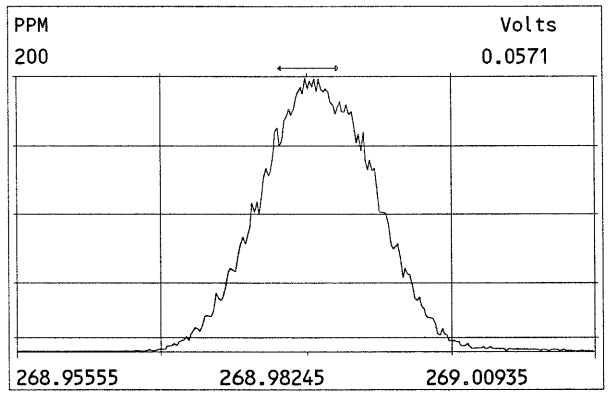


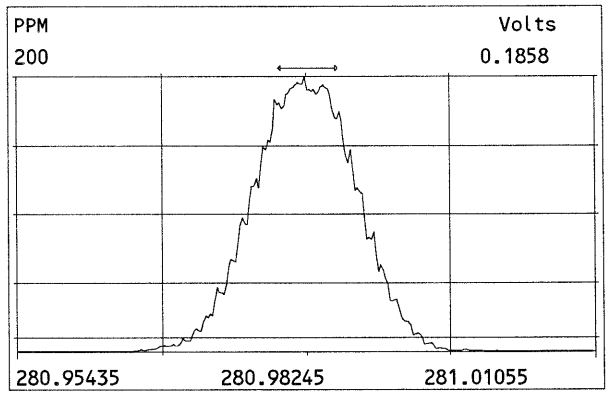


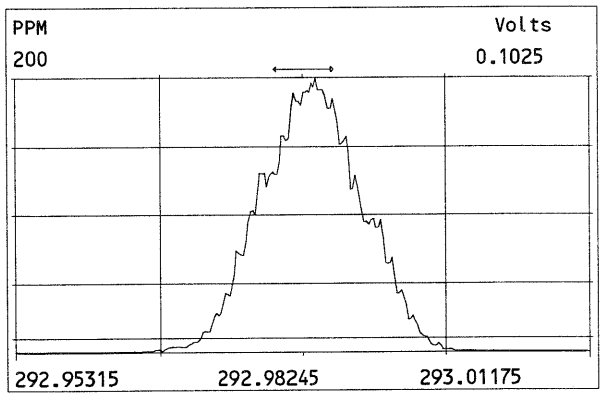


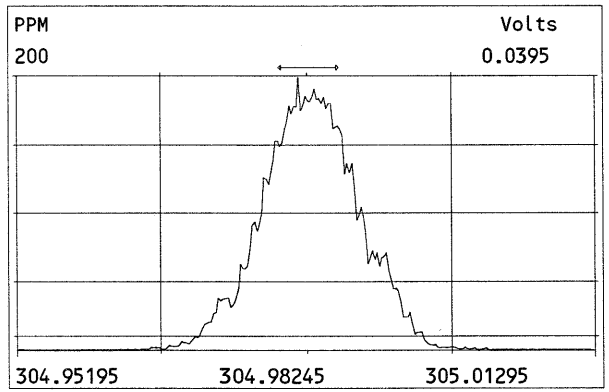
Peak Locate Examination: 3-APR-2019:21:53 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK78

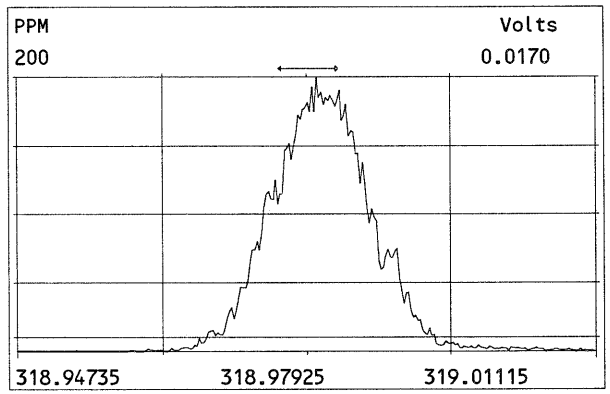


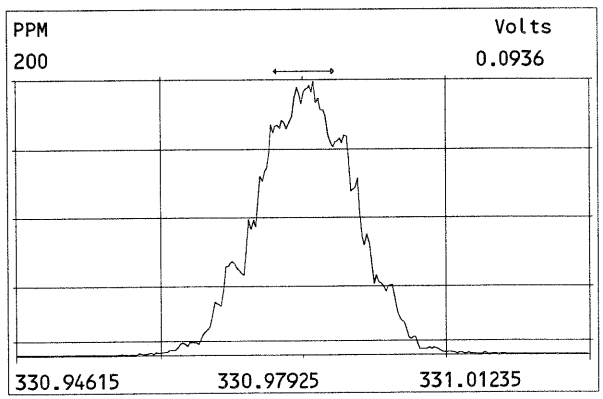


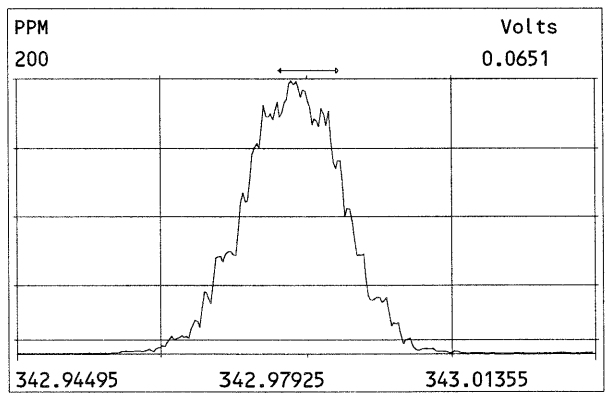




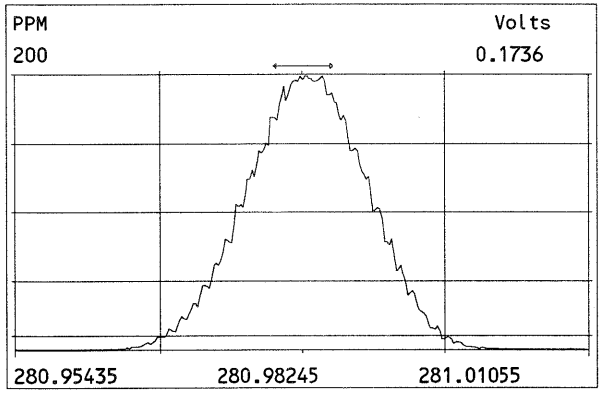


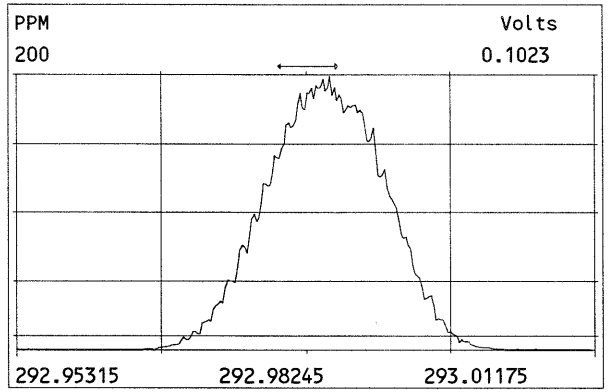


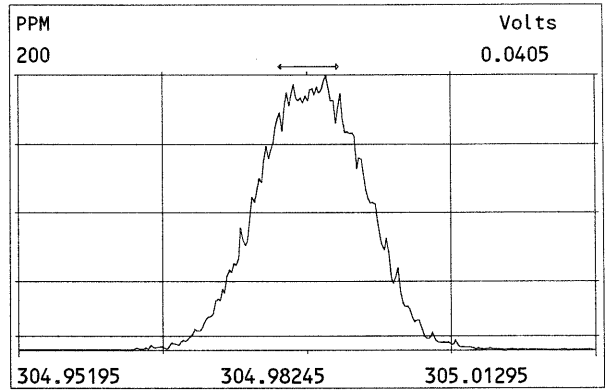


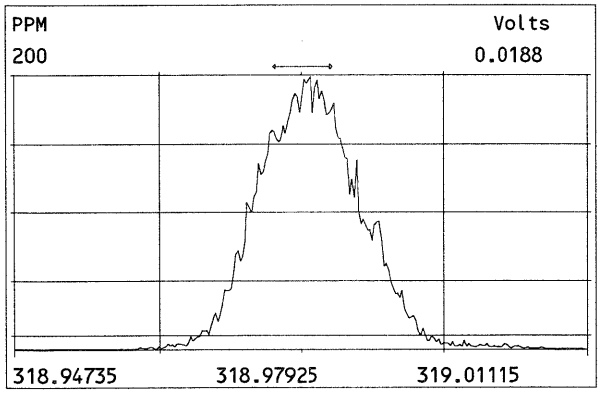


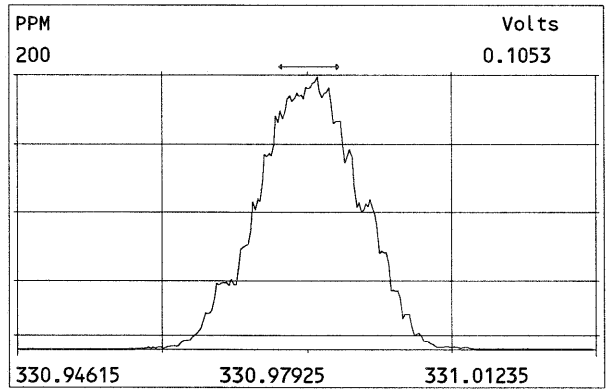
Peak Locate Examination: 3-APR-2019:21:55 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK 78

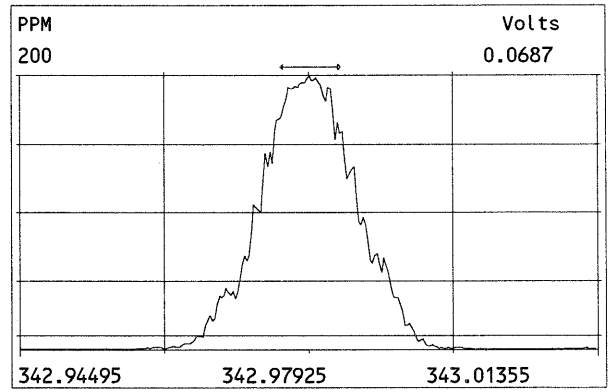


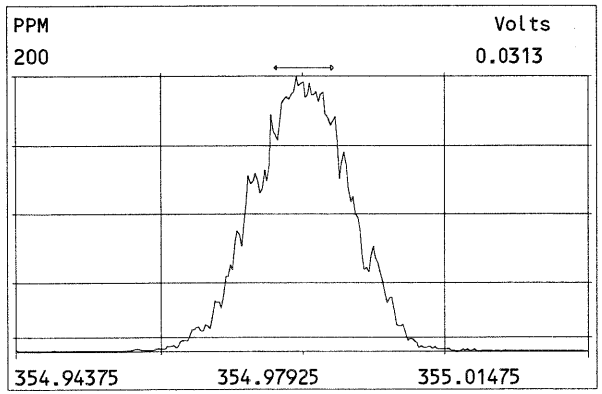


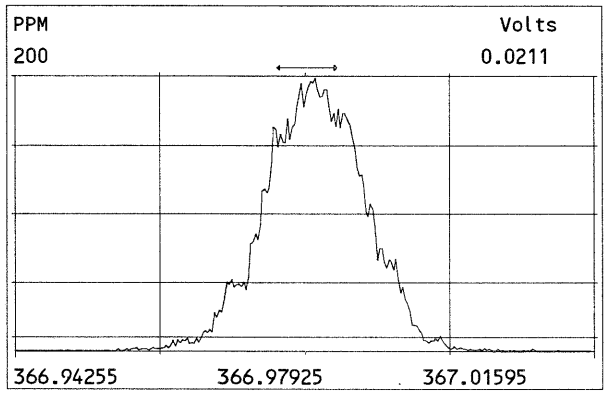


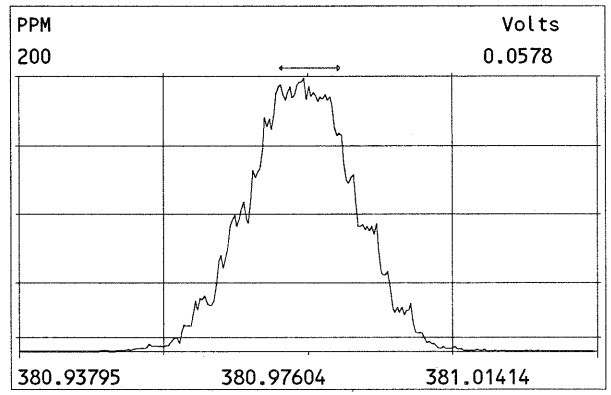




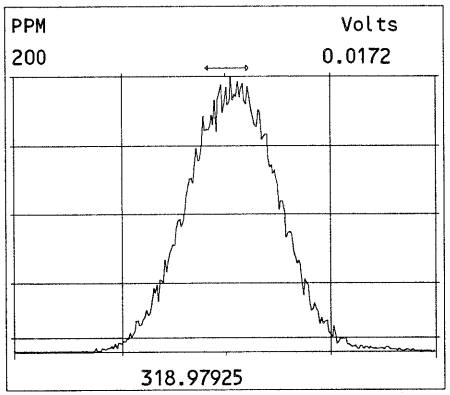


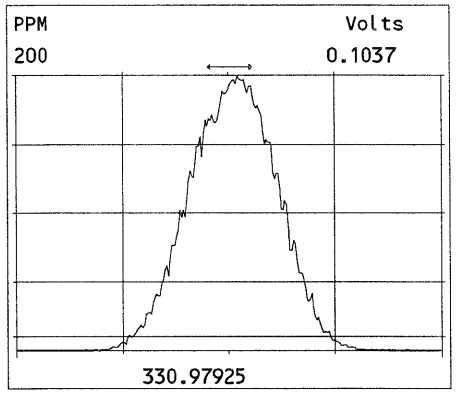


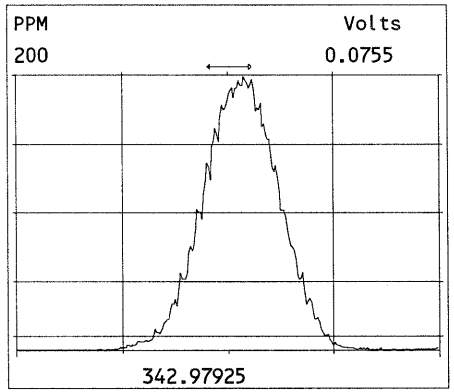


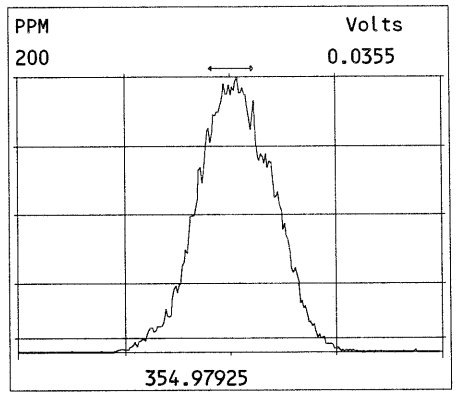


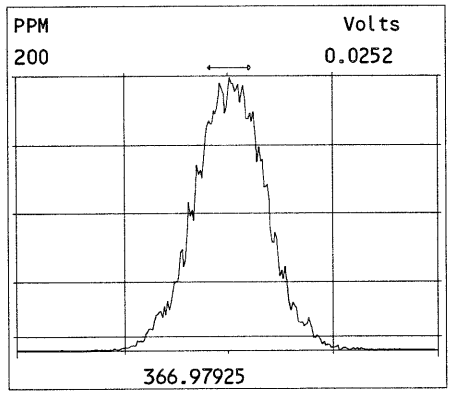
Peak Locate Examination: 3-APR-2019:21:57 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK 78

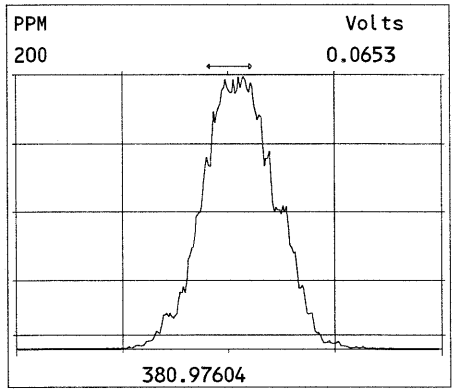


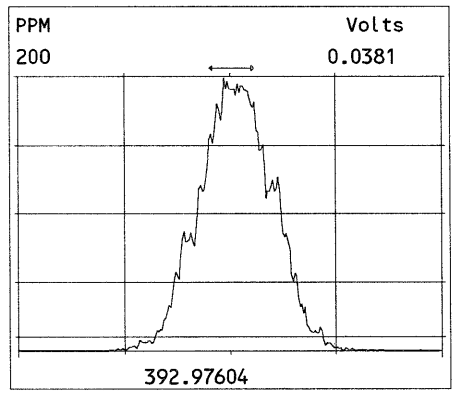


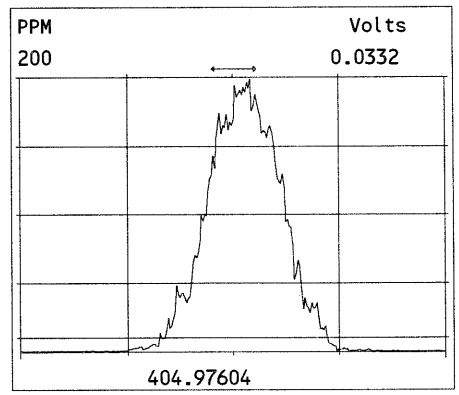


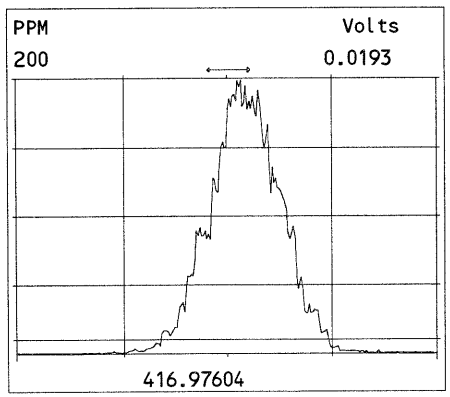


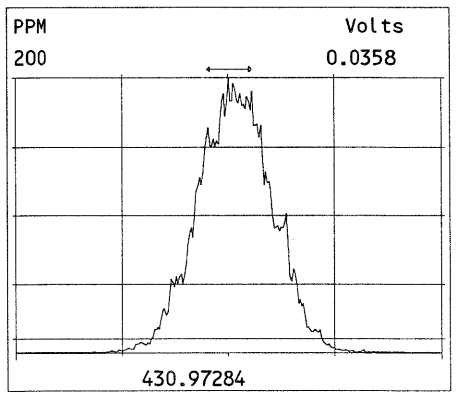


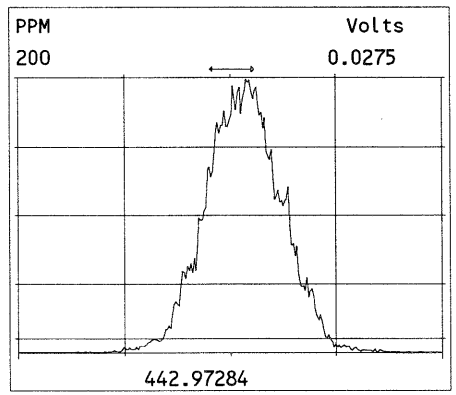




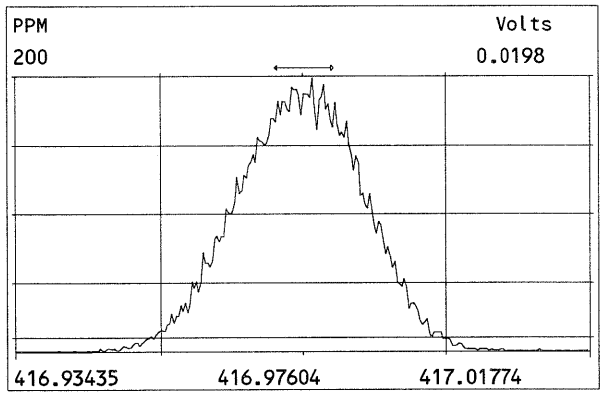


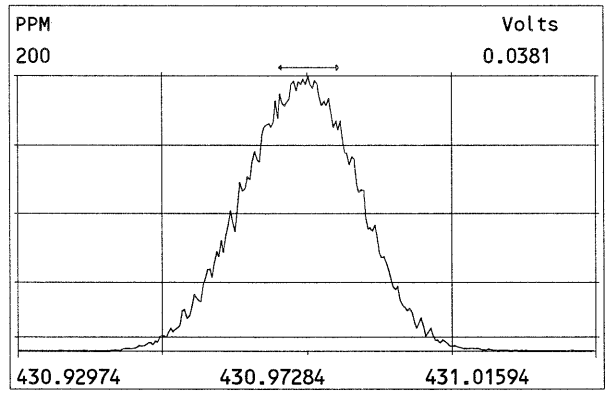


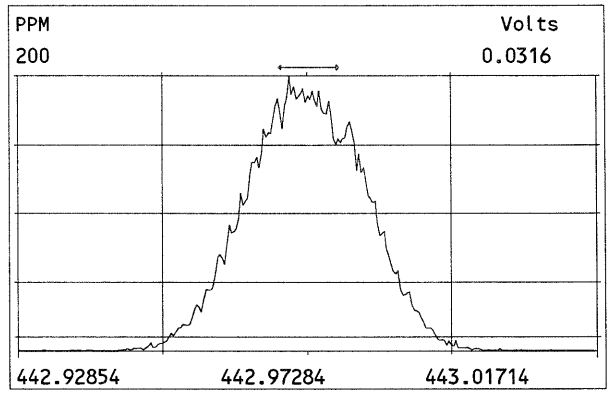


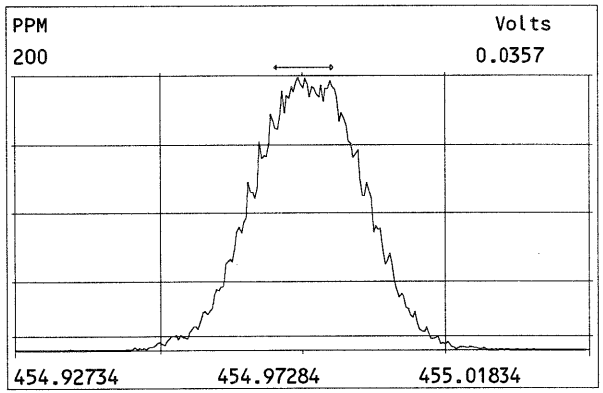


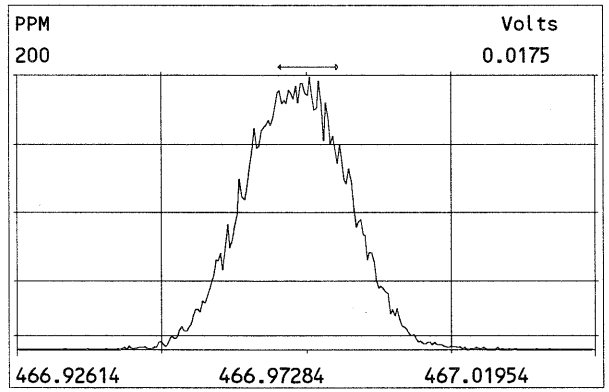
Peak Locate Examination: 3-APR-2019:22:00 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK 78

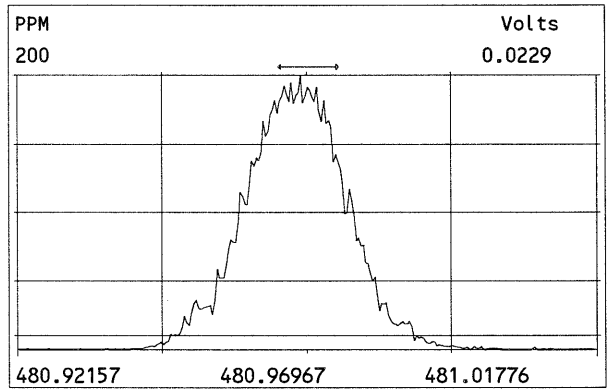


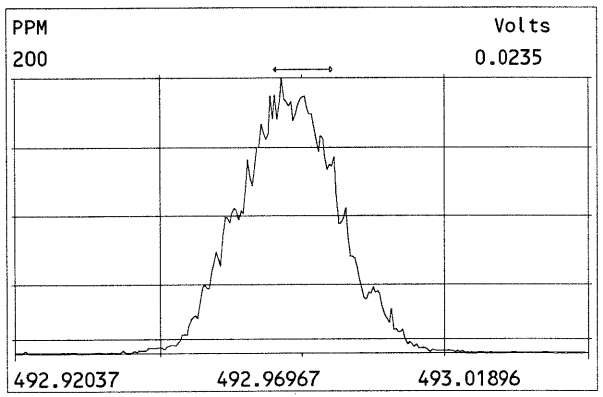


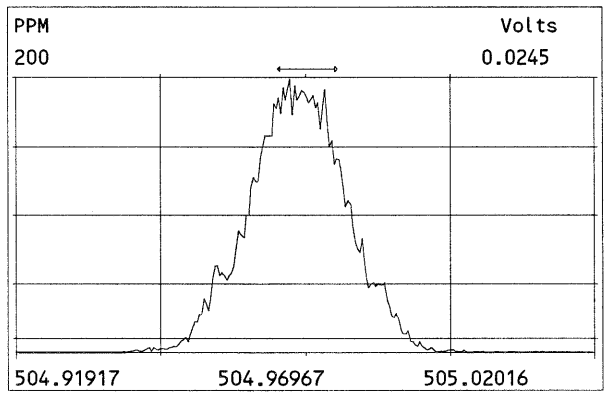


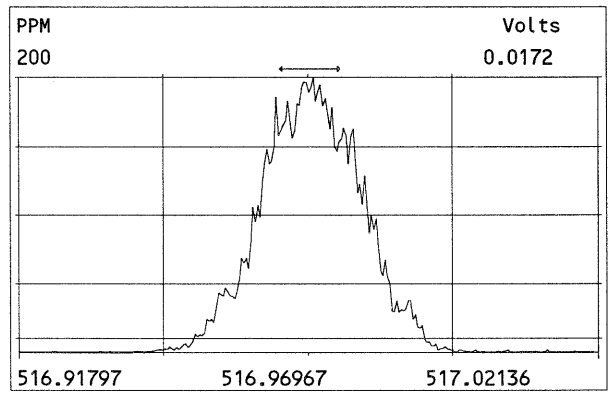












Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 24JUL19Z Sam:1 Analysis Date: 24-JUL-19 11:03:04

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.18	2.66-3.60	y	49.5	37.5 - 62.5
PCB-3	M/M+2	3.26	2.66-3.60	y	51.7	37.5 - 62.5
PCB-4	M/M+2	1.53	1.33-1.79	y	50.9	37.5 - 62.5
PCB-15	M/M+2	1.53	1.33-1.79	y	50.7	37.5 - 62.5
PCB-19	M/M+2	1.08	0.88-1.20	y	53.3	37.5 - 62.5
PCB-37	M/M+2	1.01	0.88-1.20	y	52.1	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	55.3	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	51.4	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	51.7	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	51.7	37.5 - 62.5
PCB-105	M+2/M+4	1.52	1.32-1.78	y	49.0	37.5 - 62.5
PCB-114	M+2/M+4	1.55	1.32-1.78	y	50.5	37.5 - 62.5
PCB-118	M+2/M+4	1.55	1.32-1.78	y	50.8	37.5 - 62.5
PCB-123	M+2/M+4	1.50	1.32-1.78	y	49.9	37.5 - 62.5
PCB-126	M+2/M+4	1.54	1.32-1.78	y	49.1	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	51.3	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	51.9	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	51.1	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	51.2	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	50.0	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	52.5	37.5 - 62.5
PCB-189	M+2/M+4	1.03	0.89-1.21	y	52.5	37.5 - 62.5
PCB-202	M+2/M+4	0.90	0.76-1.02	y	50.7	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	52.4	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	53.2	37.5 - 62.5
PCB-208	M+4/M+6	1.40	1.13-1.53	y	55.6	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	51.7	37.5 - 62.5

Analyst: Date: 7/24/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 24JUL19Z Sam:1 Analysis Date: 24-JUL-19 11:03:04

	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	3.21	2.66-3.60	y	85.7	50.0 - 145
13C-PCB-3	M/M+2	3.30	2.66-3.60	y	92.6	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	86.7	50.0 - 145
13C-PCB-15	M/M+2	1.59	1.33-1.79	y	104	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	85.9	50.0 - 145
13C-PCB-37	M/M+2	1.07	0.88-1.20	y	104	50.0 - 145
13C-PCB-54	M/M+2	0.83	0.65-0.89	y	89.6	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	99.9	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	103	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	91.0	50.0 - 145
13C-PCB-105	M+2/M+4	1.58	1.32-1.78	y	102	50.0 - 145
13C-PCB-114	M+2/M+4	1.58	1.32-1.78	y	105	50.0 - 145
13C-PCB-118	M+2/M+4	1.57	1.32-1.78	y	106	50.0 - 145
13C-PCB-123	M+2/M+4	1.57	1.32-1.78	y	105	50.0 - 145
13C-PCB-126	M+2/M+4	1.57	1.32-1.78	y	95.4	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	90.1	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	90.5	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	83.7	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	92.5	50.0 - 145
13C-PCB-169	M+2/M+4	1.30	1.05-1.43	y	80.2	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	98.0	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	73.9	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	91.0	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	99.6	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	103	50.0 - 145
13C-PCB-208	M+2/M+4	0.82	0.65-0.89	y	91.1	50.0 - 145
13C-PCB-209	M+4/M+6	1.22	0.99-1.33	y	108	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	110	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	99.1	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	98.2	75.0 - 125

Analyst: [illegible] Date: 7/24/19

FAL ID: ST072419Z1 Filename: 24JUL19Z Sam:1 Acquired: 24-JUL-19 11:03:04 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.86e+07	3.18 y	14:34	1.19	49.5		2.50	-	-	*	-
13C-PCB-1	1.16e+08	3.21 y	14:33	1.02	85.7		2.50				85.7
PCB-3	7.25e+07	3.26 y	16:59	1.18	51.7		2.50	-	-	*	-
13C-PCB-3	1.19e+08	3.30 y	16:59	0.97	92.6		2.50				92.6
PCB-4	4.52e+07	1.53 y	18:14	1.04	50.9		2.50	-	-	*	-
13C-PCB-4	8.51e+07	1.60 y	18:12	0.74	86.7		2.50				86.7
PCB-15	6.96e+07	1.53 y	23:45	1.03	50.7		2.50	-	-	*	-
13C-PCB-15	1.33e+08	1.59 y	23:44	0.96	104		2.50				104
PCB-19	3.55e+07	1.08 y	22:07	1.11	53.3		2.50	-	-	*	-
13C-PCB-19	6.01e+07	1.09 y	22:06	0.53	85.9		2.50				85.9
13C-PCB-9	1.33e+08	1.61 y	19:54	-	172		2.50				
PCB-37	5.41e+07	1.01 y	30:23	1.04	52.1		2.50	-	-	*	-
13C-PCB-37	1.00e+08	1.07 y	30:22	1.57	104		2.50				104
PCB-54	4.89e+07	0.80 y	25:39	1.16	55.3		2.50	-	-	*	-
13C-PCB-54	7.60e+07	0.83 y	25:38	1.38	89.6		2.50				89.6
PCB-104	3.45e+07	1.59 y	30:04	1.08	51.7		2.50	-	-	*	-
13C-PCB-104	6.17e+07	1.60 y	30:03	1.11	91.0		2.50				91.0
13C-PCB-28	1.15e+08	1.05 y	26:42	1.71	110		2.50				110
13C-PCB-52	6.14e+07	0.81 y	28:57	-	161		2.50				
PCB-81	4.32e+07	0.78 y	36:08	1.06	51.7		2.50	-	-	*	-
13C-PCB-81	7.85e+07	0.81 y	36:08	1.50	103		2.50				103
PCB-77	4.19e+07	0.79 y	36:42	1.02	51.4		2.50	-	-	*	-
13C-PCB-77	7.98e+07	0.80 y	36:41	1.57	99.9		2.50				99.9
PCB-155	3.42e+07	1.26 y	34:13	1.02	51.3		2.50	-	-	*	-
13C-PCB-155	6.52e+07	1.29 y	34:12	1.42	90.1		2.50				90.1
13C-PCB-111	6.52e+07	1.60 y	36:17	1.29	99.1		2.50				99.1
13C-PCB-101	5.10e+07	1.61 y	34:38	-	155		2.50				
PCB-123	3.28e+07	1.50 y	38:20	1.03	49.9		2.50	-	-	*	-
13C-PCB-123	6.36e+07	1.57 y	38:18	1.40	105		2.50				105
PCB-118	3.67e+07	1.55 y	38:30	1.02	50.8		2.50	-	-	*	-
13C-PCB-118	7.08e+07	1.57 y	38:30	1.53	106		2.50				106
PCB-114	3.38e+07	1.55 y	39:08	1.01	50.5		2.50	-	-	*	-
13C-PCB-114	6.59e+07	1.58 y	39:06	1.45	105		2.50				105
PCB-105	3.19e+07	1.52 y	39:57	1.02	49.0		2.50	-	-	*	-
13C-PCB-105	6.40e+07	1.58 y	39:55	1.44	102		2.50				102
PCB-126	2.83e+07	1.54 y	42:04	1.02	49.1		2.50	-	-	*	-
13C-PCB-126	5.67e+07	1.57 y	42:02	1.37	95.4		2.50				95.4
PCB-167	2.82e+07	1.25 y	43:26	1.07	51.2		2.50	-	-	*	-
13C-PCB-167	5.15e+07	1.28 y	43:25	1.28	92.5		2.50				92.5
PCB-156	2.77e+07	1.26 y	44:39	1.10	51.9		2.50	-	-	*	-
13C-PCB-156	4.85e+07	1.29 y	44:37	1.24	90.5		2.50				90.5
PCB-157	2.63e+07	1.27 y	44:55	1.06	51.1		2.50	-	-	*	-
13C-PCB-157	4.85e+07	1.30 y	44:53	1.34	83.7		2.50				83.7
PCB-169	2.29e+07	1.27 y	46:45	1.06	50.0		2.50	-	-	*	-
13C-PCB-169	4.32e+07	1.30 y	46:45	1.24	80.2		2.50				80.2
PCB-188	2.92e+07	1.06 y	39:42	1.02	52.5		2.50	-	-	*	-
13C-PCB-188	5.47e+07	1.07 y	39:42	1.29	98.0		2.50				98.0
PCB-189	1.79e+07	1.03 y	48:26	0.99	52.5		2.50	-	-	*	-
13C-PCB-189	3.43e+07	1.08 y	48:26	1.07	73.9		2.50				73.9
PCB-202	2.15e+07	0.90 y	44:50	0.99	50.7		2.50	-	-	*	-
13C-PCB-202	4.29e+07	0.90 y	44:48	1.09	91.0		2.50				91.0
13C-PCB-178	3.43e+07	1.06 y	42:20	0.81	98.2		2.50				98.2
13C-PCB-138	4.34e+07	1.30 y	41:33	-	135		2.50				

FAL ID: ST072419Z1 Filename: 24JUL19Z Sam:1 Acquired: 24-JUL-19 11:03:04 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	2.58e+07	0.89	y	50:06	1.02	52.4	2.50	-	-	*	-
13C-PCB-205	4.81e+07	0.90	y	50:05	1.40	99.6	2.50				99.6
PCB-208	2.32e+07	1.40	y	49:10	0.98	55.6	2.50	-	-	*	-
13C-PCB-208	4.28e+07	0.82	y	49:10	1.36	91.1	2.50				91.1
PCB-206	1.88e+07	1.37	y	51:18	0.99	53.2	2.50	-	-	*	-
13C-PCB-206	3.56e+07	0.81	y	51:18	1.01	103	2.50				103
PCB-209	2.53e+07	1.20	y	52:30	1.09	51.7	2.50	-	-	*	-
13C-PCB-209	4.50e+07	1.22	y	52:30	1.21	108	2.50				108
13C-PCB-194	3.45e+07	0.91	y	49:49	-	112	2.50				

Analyst: _____ Date: 7/24/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:24JUL19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

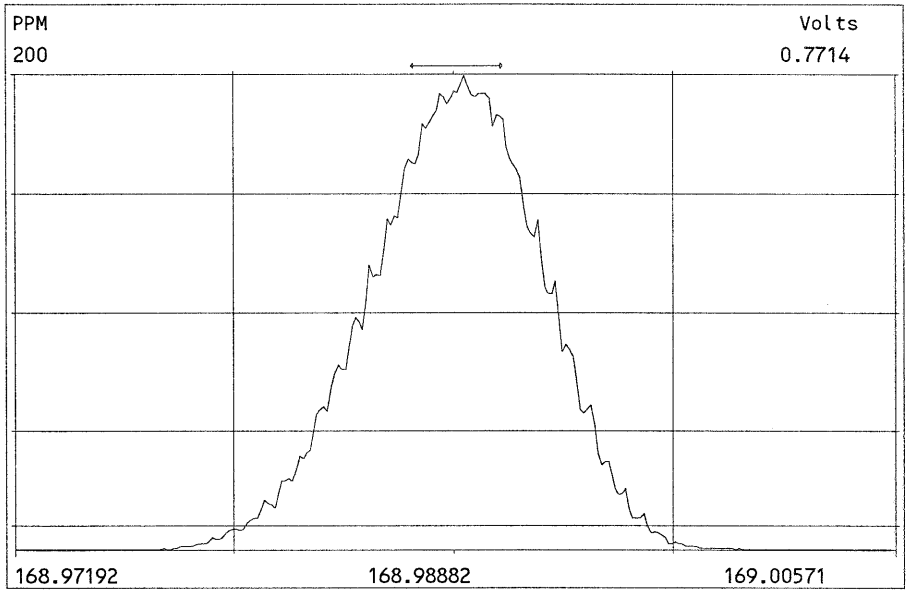
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
24JUL19Z	1	ST072419Z1	1668 CS3 R181204D	24-JUL-19 11:03:04	ST072419Z1	ST072419Z2	BS
24JUL19Z	2	SS072419Z1	Daily 209 190408A	24-JUL-19 12:01:29	ST072419Z1	ST072419Z2	BS
24JUL19Z	3	04981-001-0001-OPR	OPR	24-JUL-19 12:59:50	ST072419Z1	ST072419Z2	BS
24JUL19Z	4	04981-001-0001-MB	Method Blank	24-JUL-19 13:58:11	ST072419Z1	ST072419Z2	BS
24JUL19Z	5	12532-001-0001-SA	LDW-Y2-SU-ENR-CA-CORE	24-JUL-19 14:56:56	ST072419Z1	ST072419Z2	BS
24JUL19Z	6	12532-002-0001-SA	LDW-Y2-SU-ENR-CB-CORE	24-JUL-19 15:55:37	ST072419Z1	ST072419Z2	BS
24JUL19Z	7	12532-003-0001-SA	LDW-Y2-SU-ENR-CC-CORE	24-JUL-19 16:53:59	ST072419Z1	ST072419Z2	BS
24JUL19Z	8	12532-004-0001-SA	LDW-Y2-SU-ENR+AC-CA-CORE	24-JUL-19 17:52:39	ST072419Z1	ST072419Z2	BS
24JUL19Z	9	12532-005-0001-SA	LDW-Y2-SU-ENR+AC-CB-CORE	24-JUL-19 18:51:01	ST072419Z1	ST072419Z2	BS
24JUL19Z	10	12532-006-0001-SA	LDW-Y2-SU-ENR+AC-CC-CORE	24-JUL-19 19:49:47	ST072419Z1	ST072419Z2	BS
24JUL19Z	11	12532-007-0001-SA	LDW-Y2-IN-ENR-CA-CORE	24-JUL-19 20:48:09	ST072419Z1	ST072419Z2	BS
24JUL19Z	12	12532-008-0001-SA	LDW-Y2-IN-ENR-CB-CORE	24-JUL-19 21:46:30	ST072419Z1	ST072419Z2	BS
24JUL19Z	13	12532-009-0001-SA	LDW-Y2-IN-ENR-CE-CORE	24-JUL-19 22:44:51	ST072419Z1	ST072419Z2	BS
24JUL19Z	14	12532-010-0001-SA	LDW-Y2-IN-ENR+AC-CA-CORE	24-JUL-19 23:43:12	ST072419Z1	ST072419Z2	BS
24JUL19Z	15	SB072419Z1	Solvent Blank	25-JUL-19 00:41:33	ST072419Z1	ST072419Z2	BS
24JUL19Z	16	ST072419Z2	1668 CS3 R181204D	25-JUL-19 01:40:20	ST072419Z1	ST072419Z2	BS

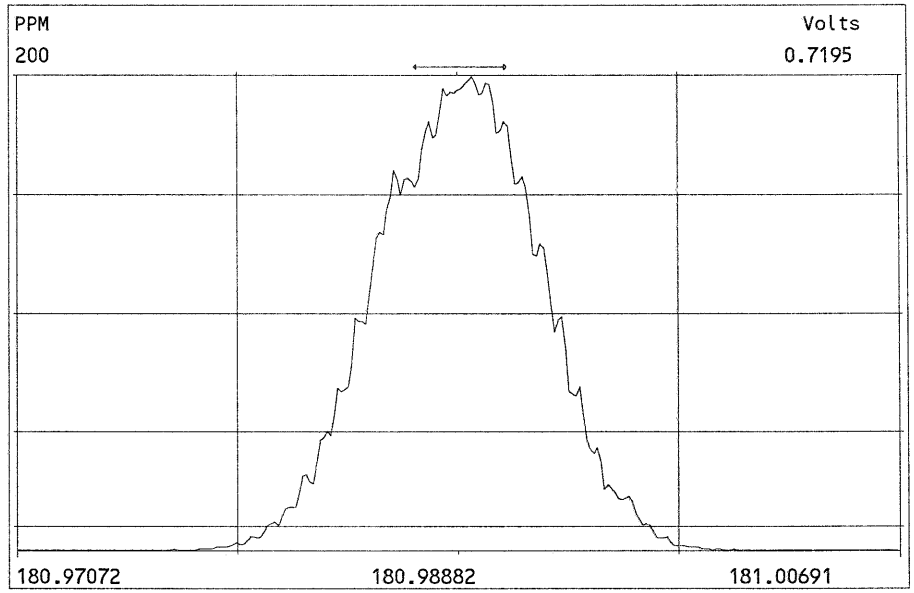
7/25/19

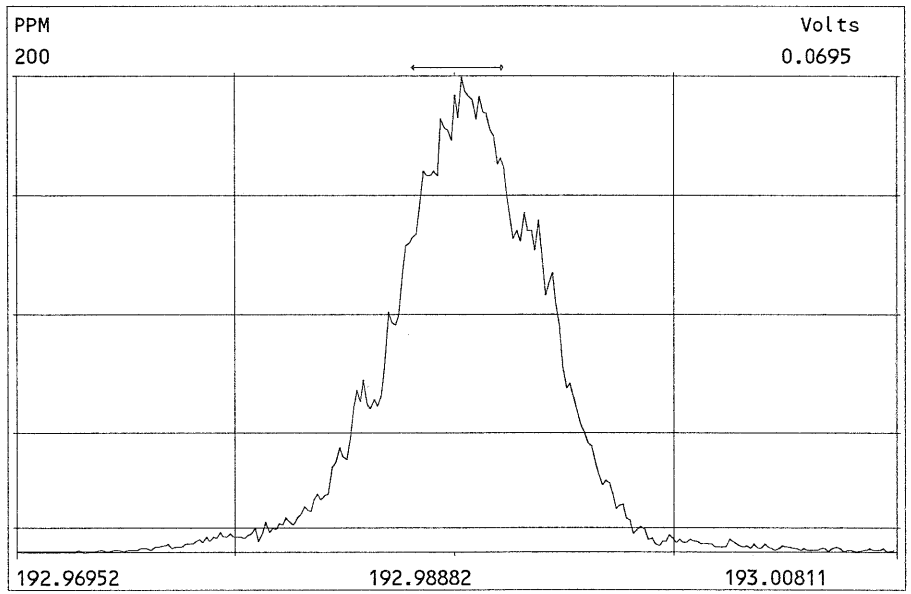
Data Backed Up:_____

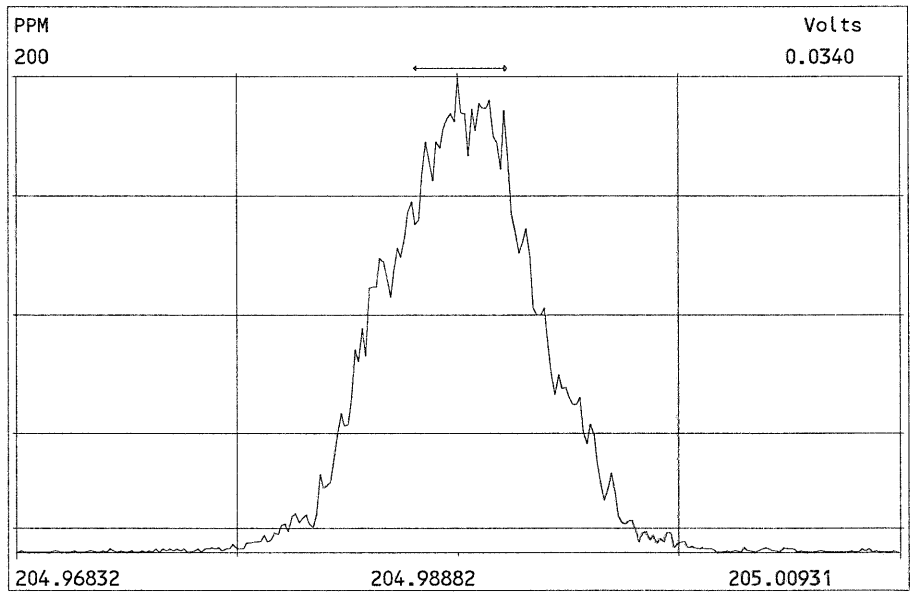
Date:_____

Peak Locate Examination:24-JUL-2019:11:00 File:24JUL19Z
Experiment:1668PCB Function:1 Reference:PFK

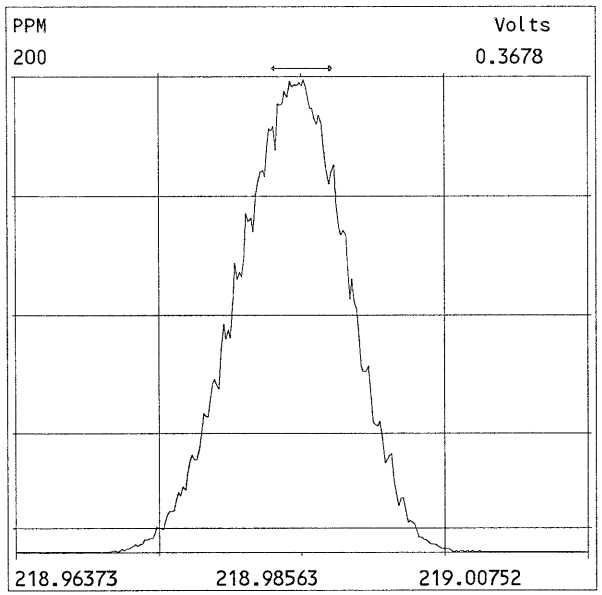


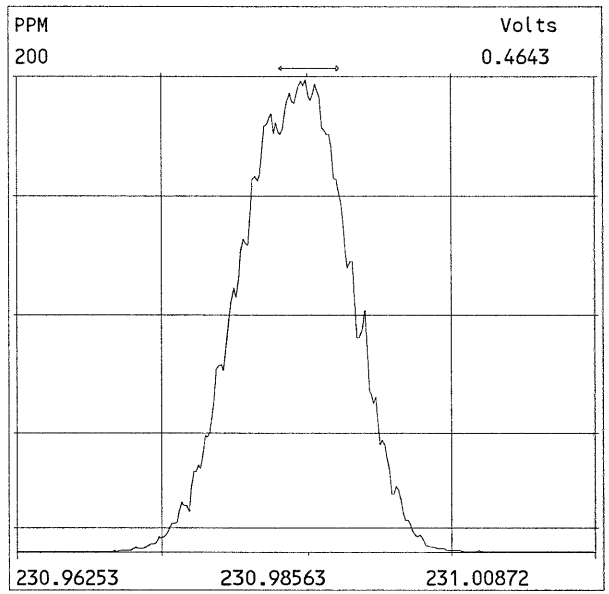


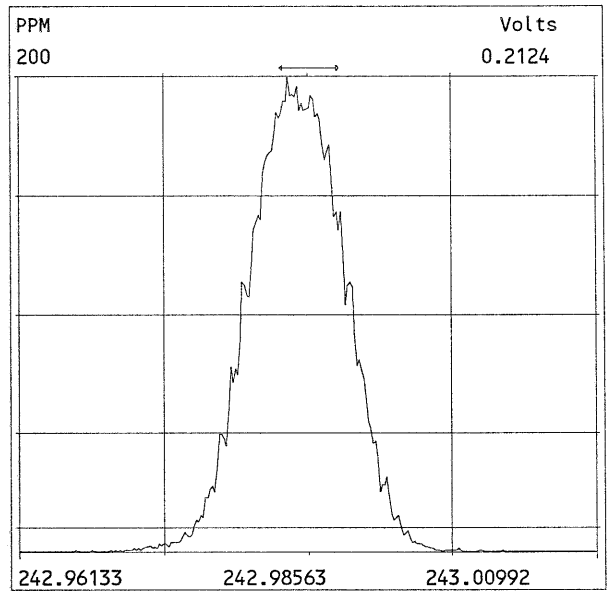


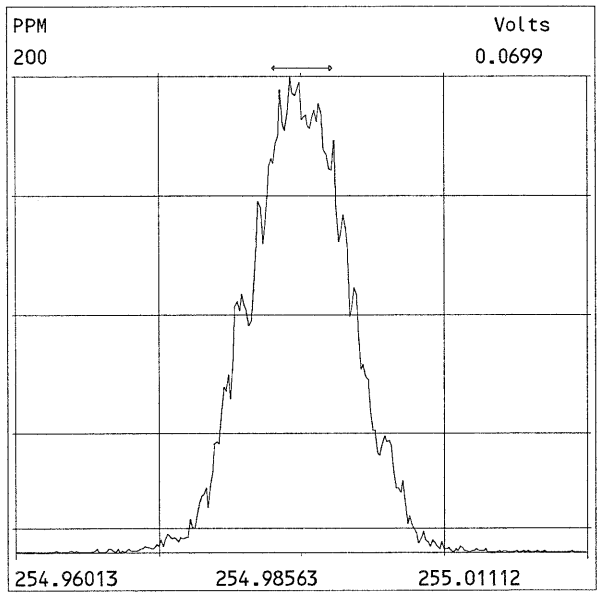


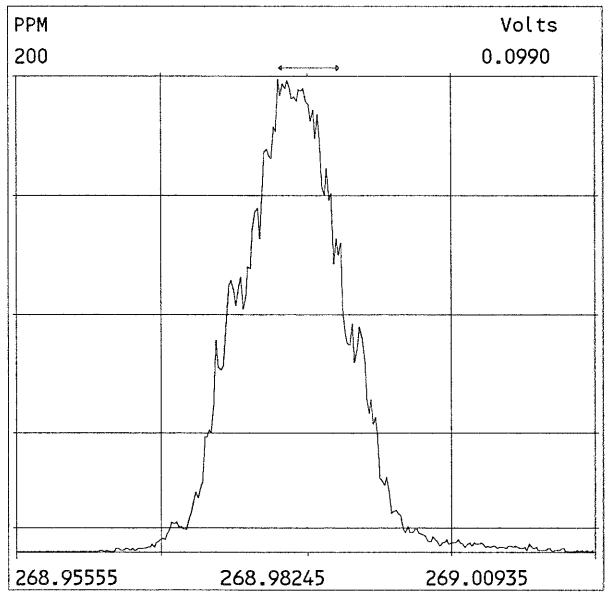
Peak Locate Examination:24-JUL-2019:11:00 File:24JUL19Z
Experiment:1668PCB Function:2 Reference:PFK

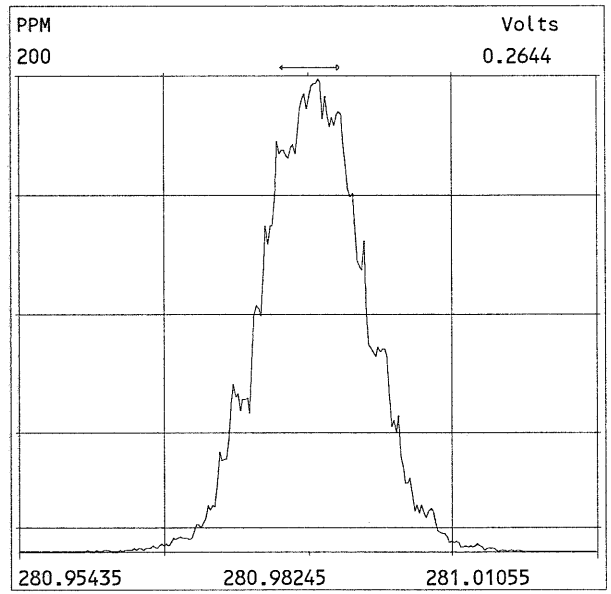




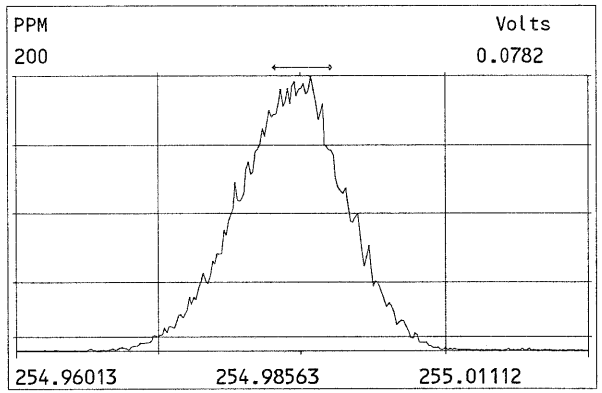


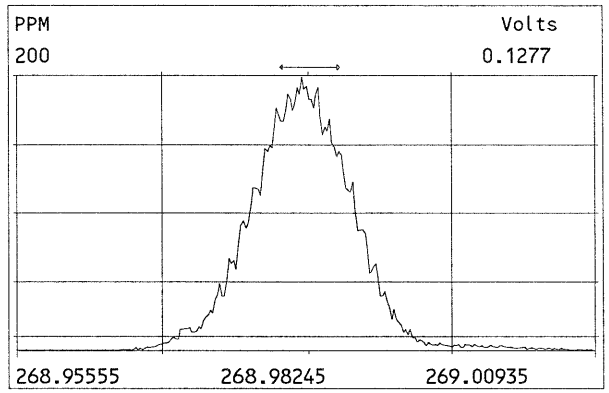


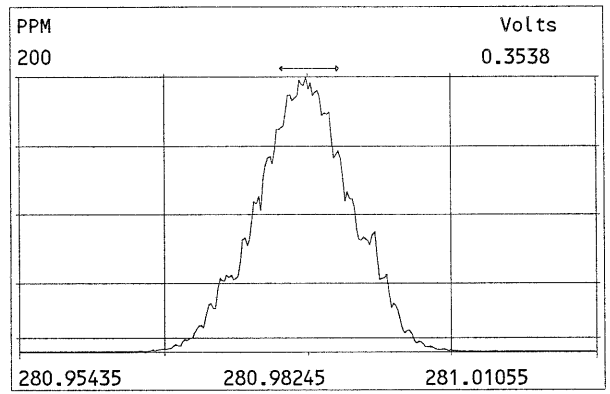


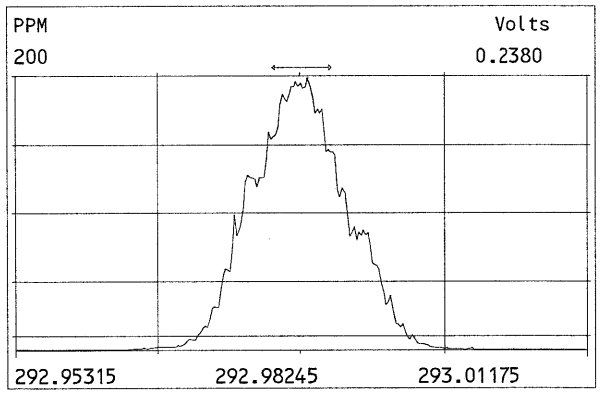


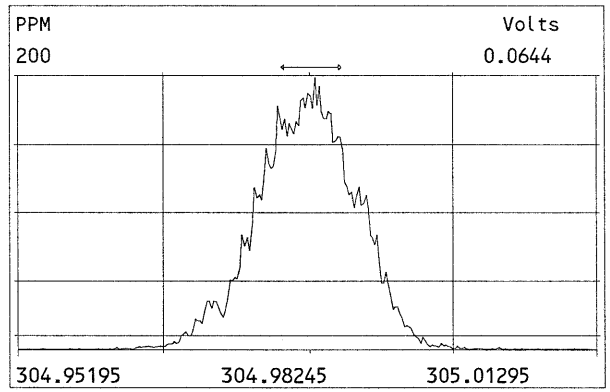
Peak Locate Examination:24-JUL-2019:11:01 File:24JUL19Z
Experiment:1668PCB Function:3 Reference:PFK

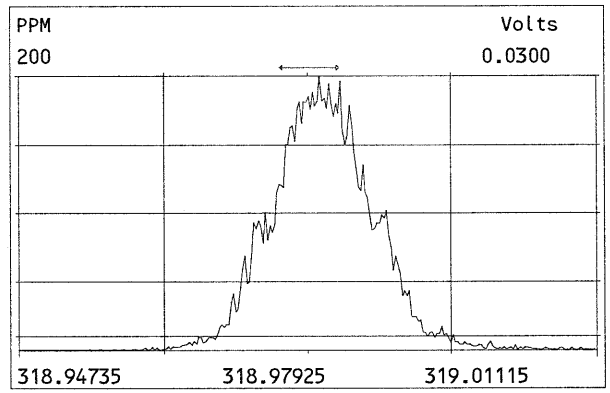


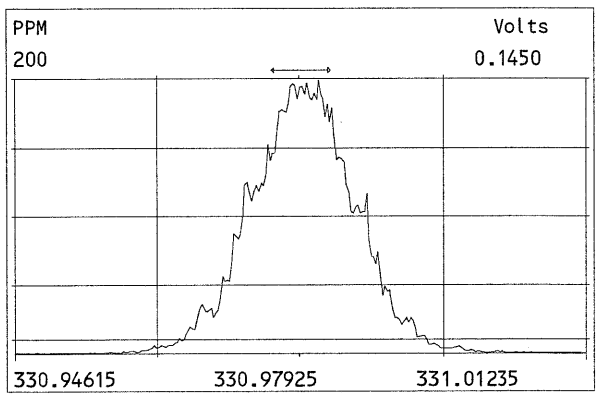


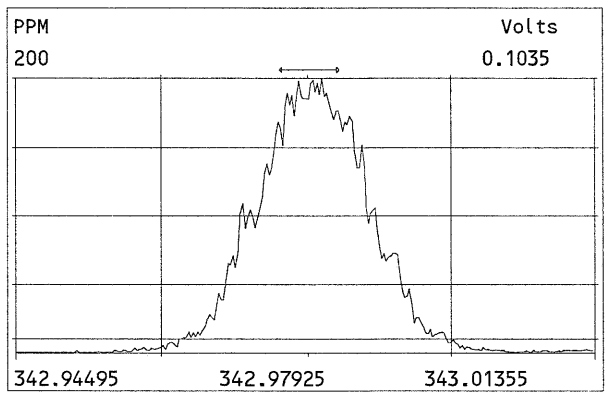




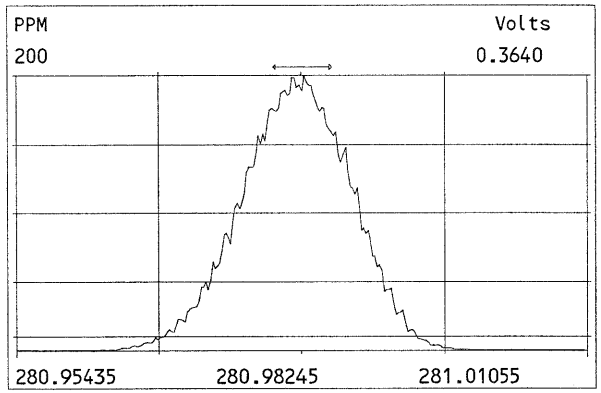


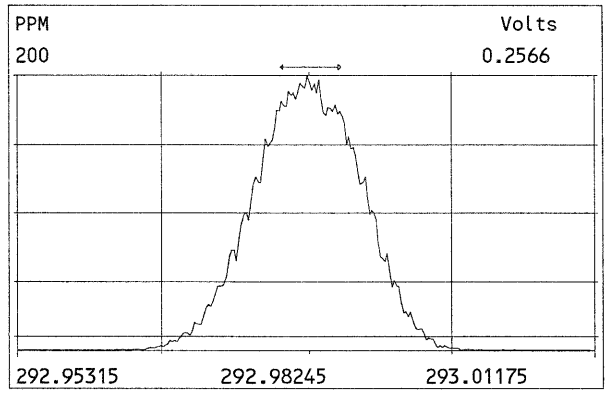


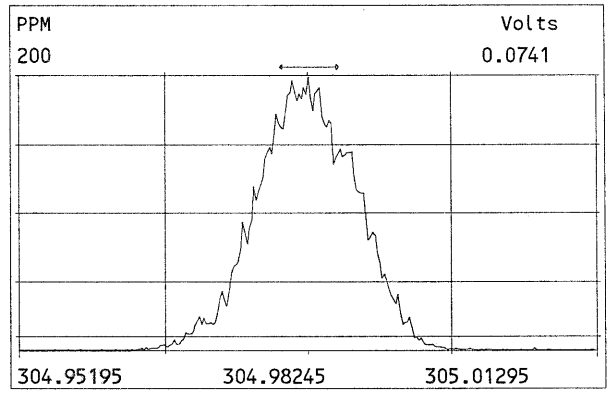


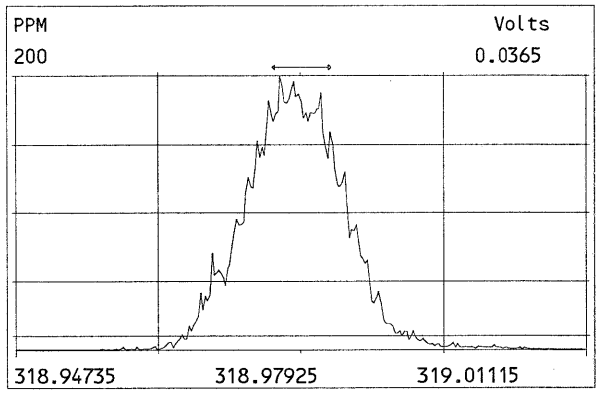


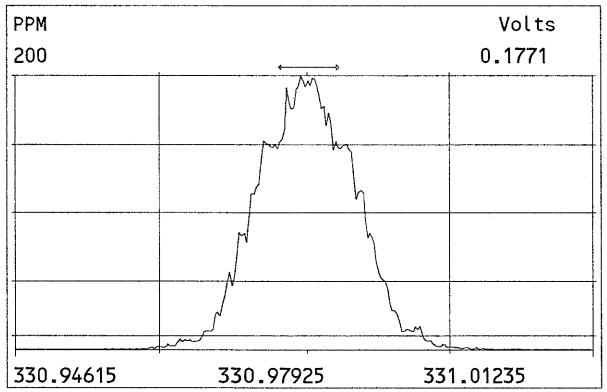
Peak Locate Examination:24-JUL-2019:11:01 File:24JUL19Z
Experiment:1668PCB Function:4 Reference:PFK

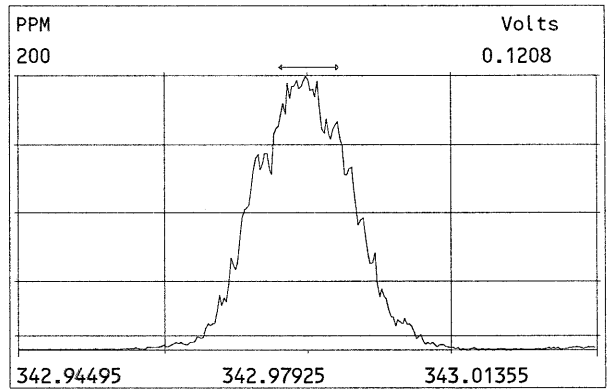


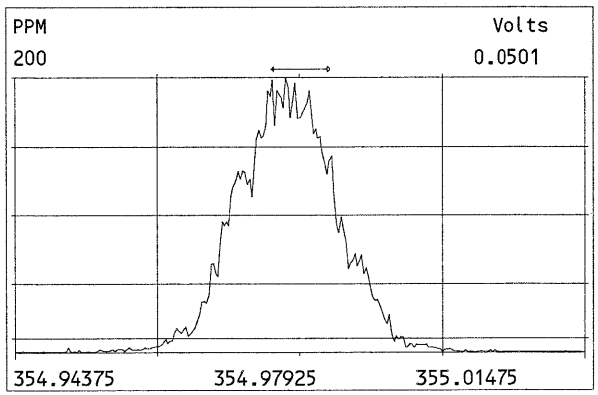


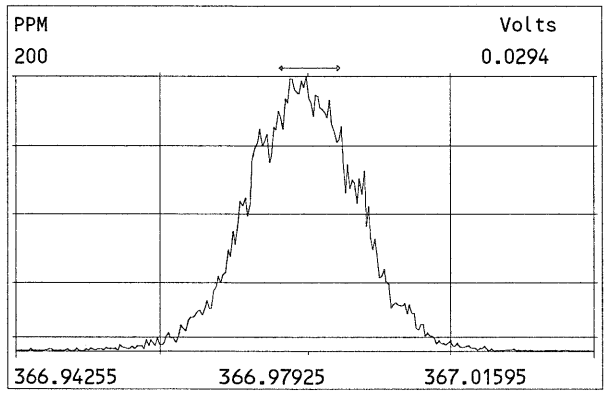


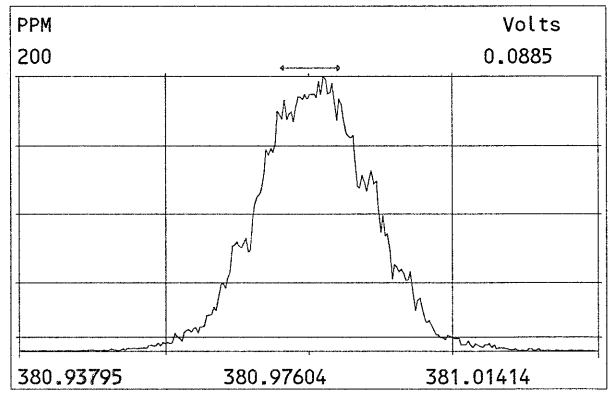




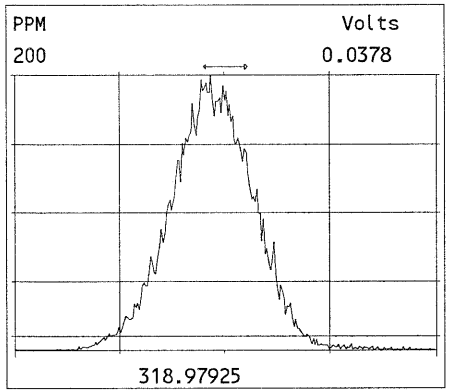


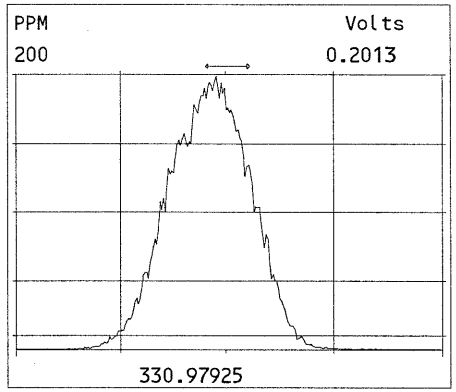


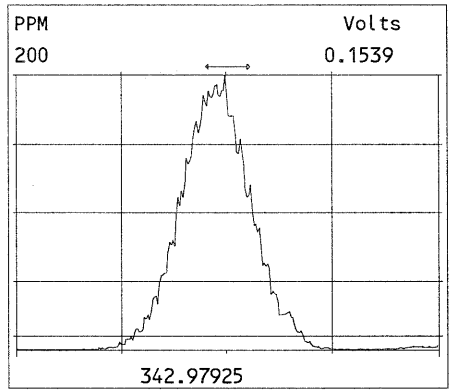


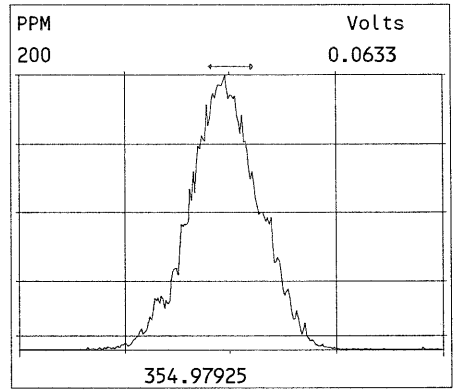


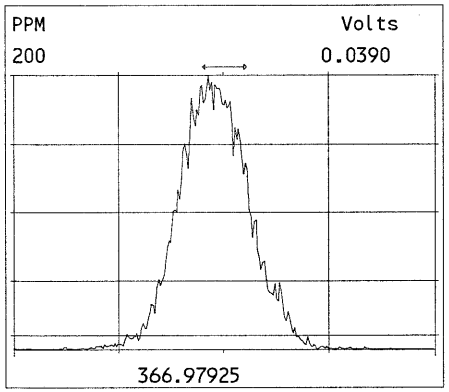
Peak Locate Examination:24-JUL-2019:11:02 File:24JUL19Z
Experiment:1668PCB Function:5 Reference:PFK

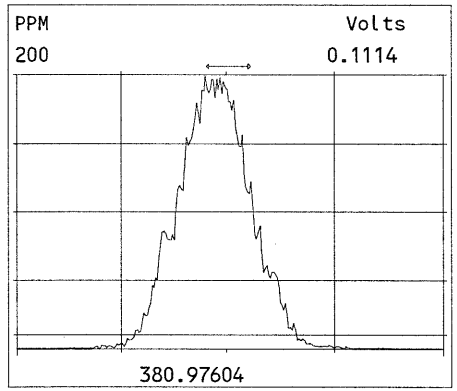


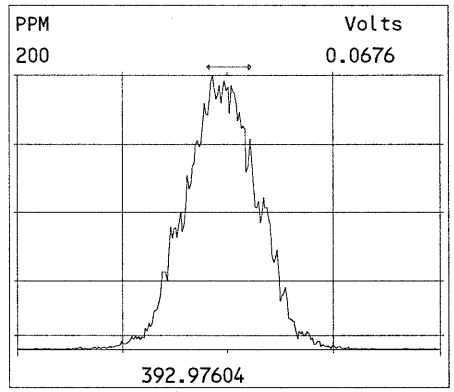


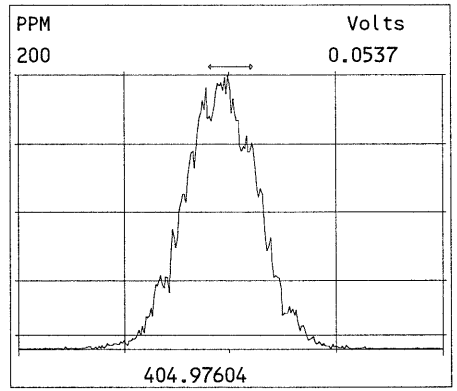


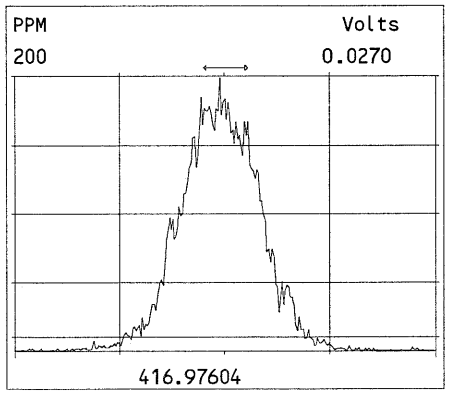


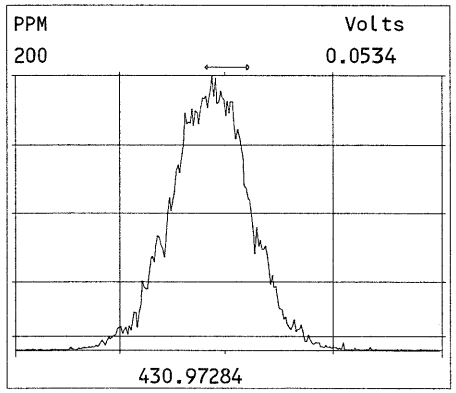


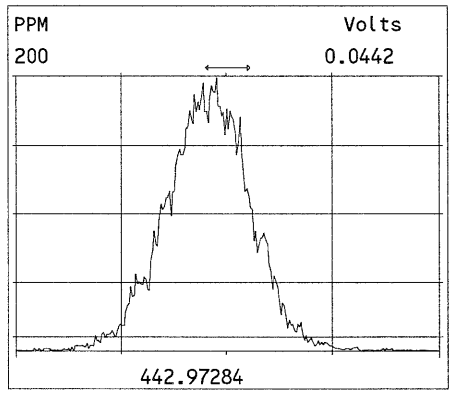




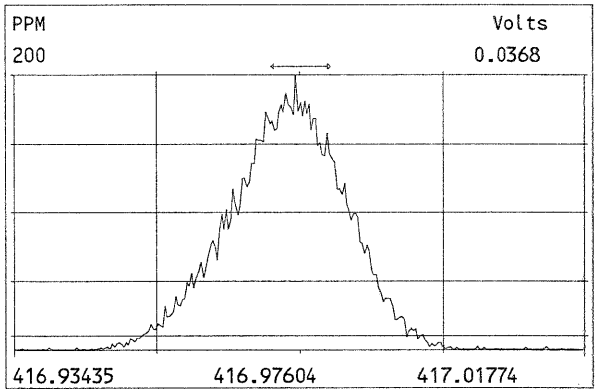


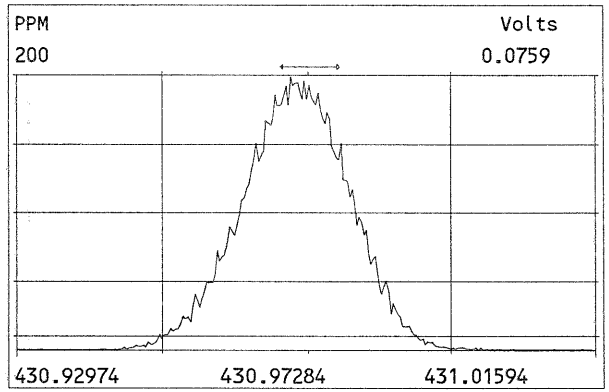


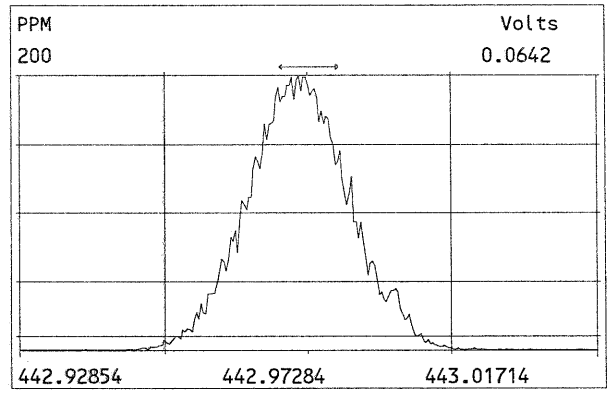


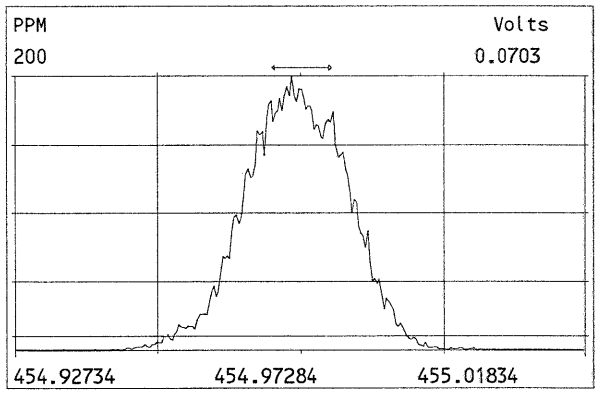


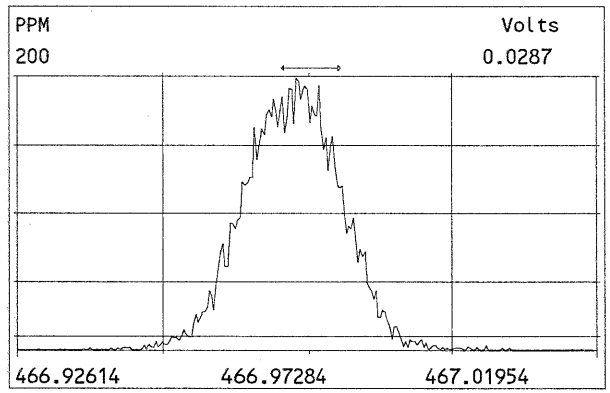
Peak Locate Examination:24-JUL-2019:11:02 File:24JUL19Z
Experiment:1668PCB Function:6 Reference:PFK

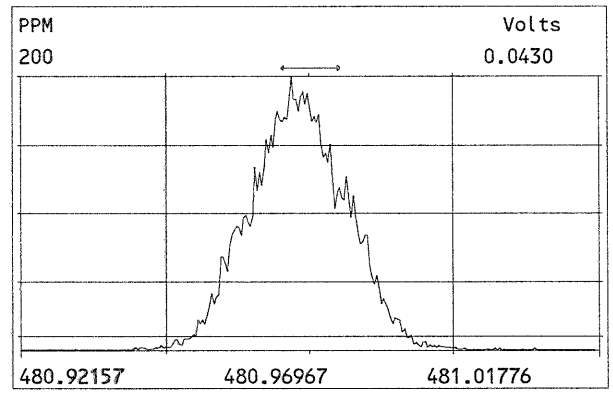


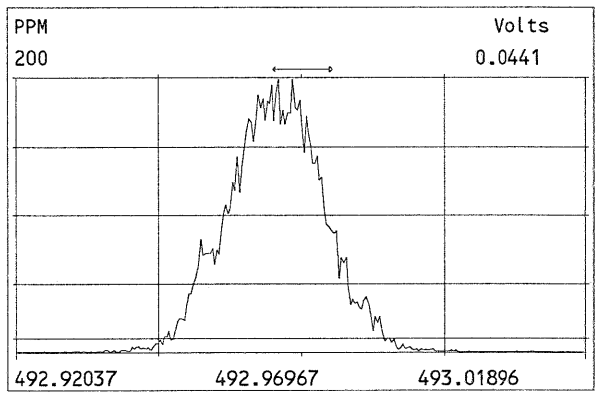


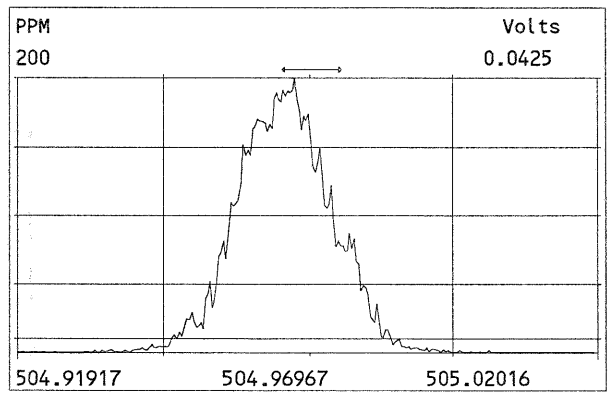


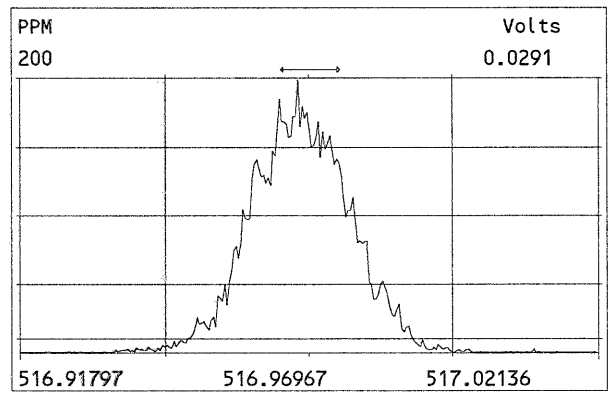




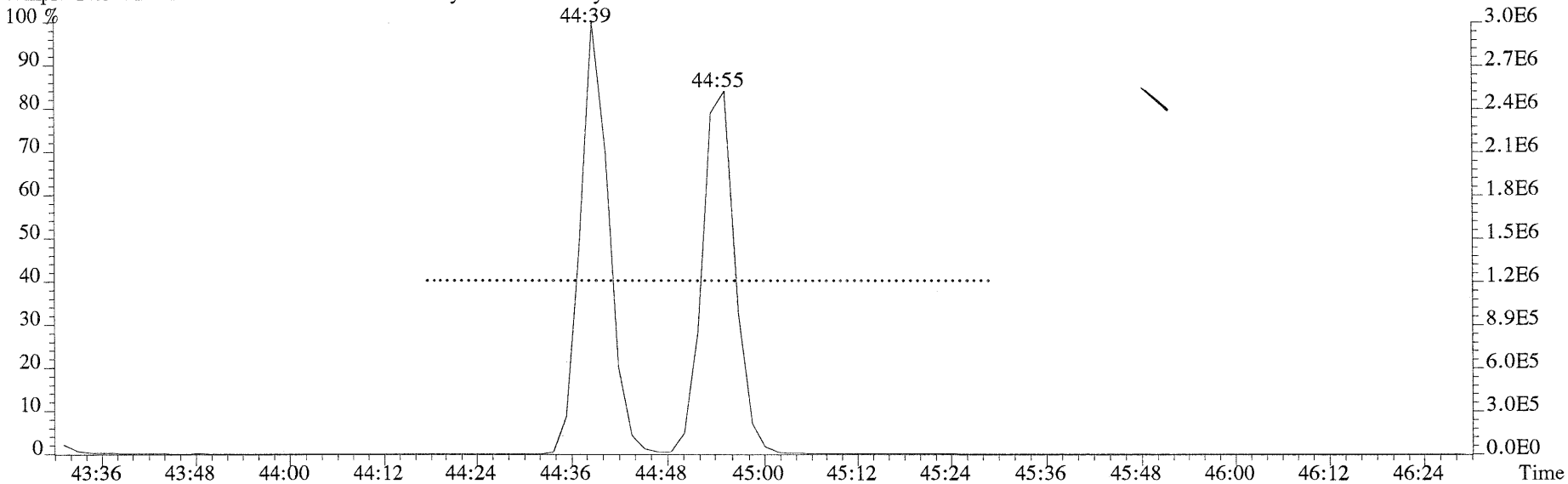




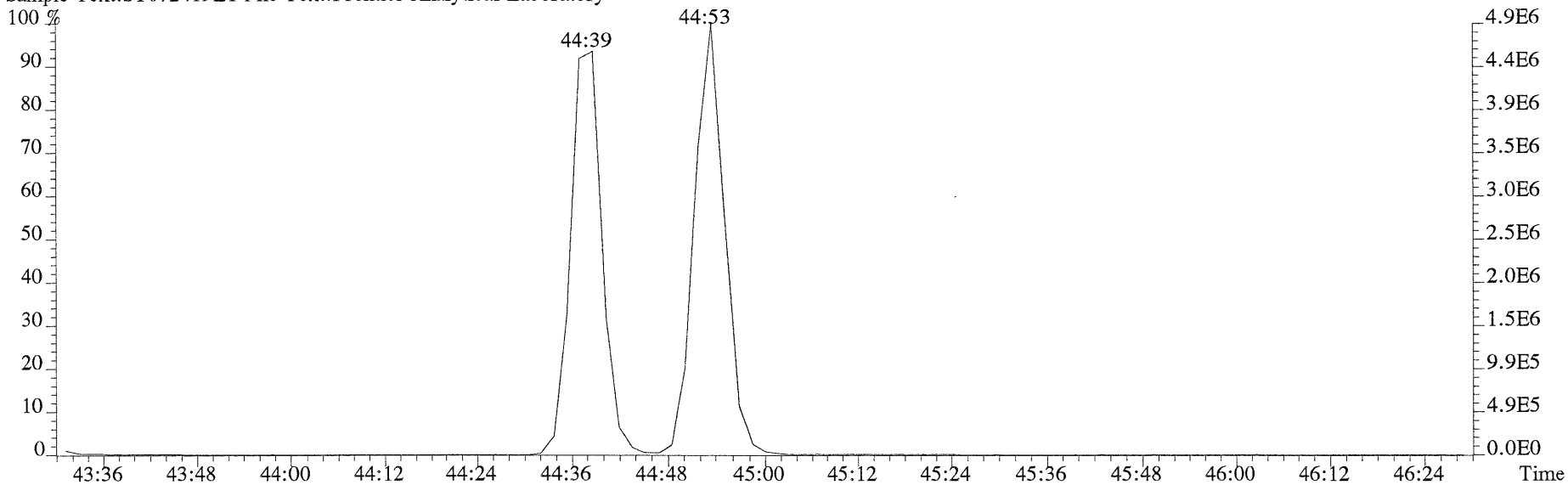




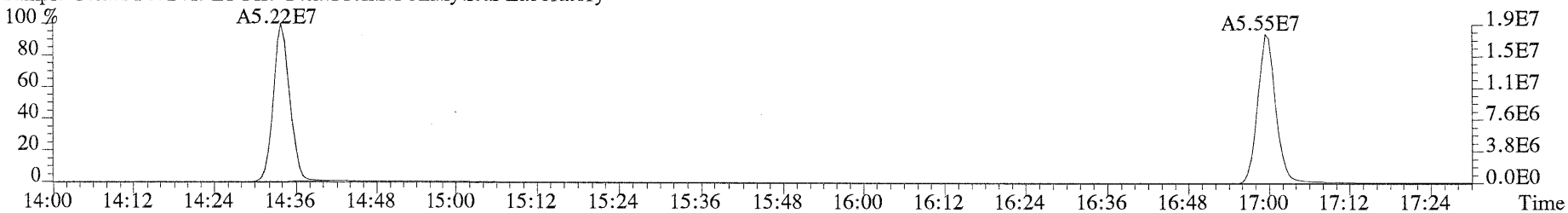
File:24JUL19Z #1-405 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



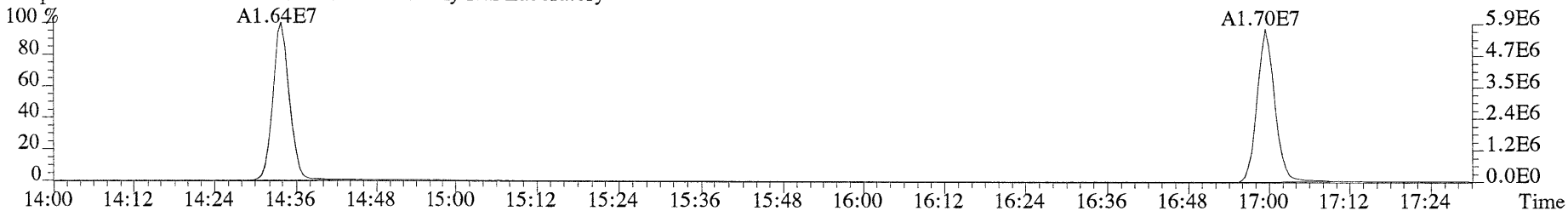
File:24JUL19Z #1-405 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



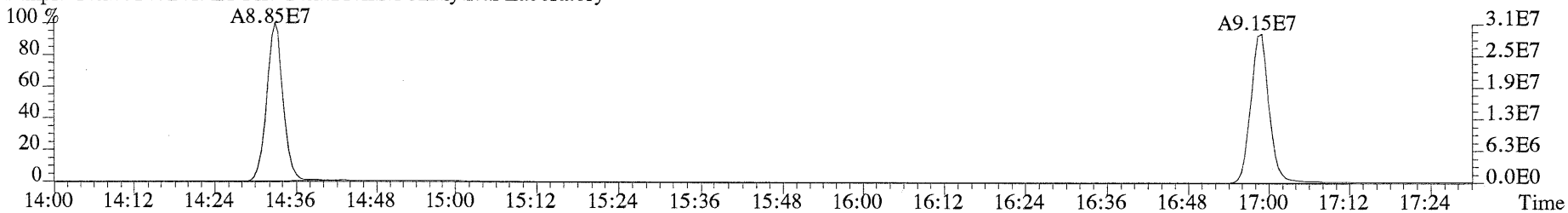
File:24JUL19Z #1-783 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



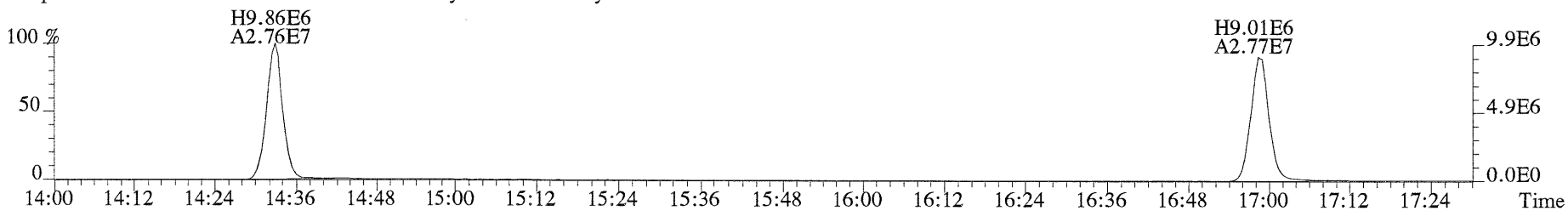
File:24JUL19Z #1-783 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



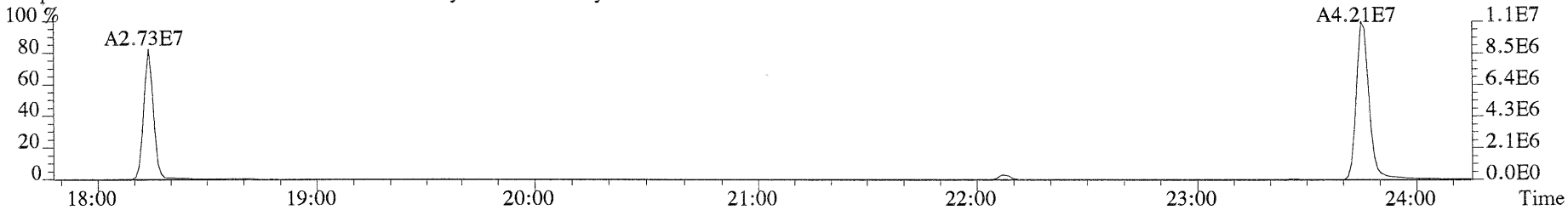
File:24JUL19Z #1-783 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



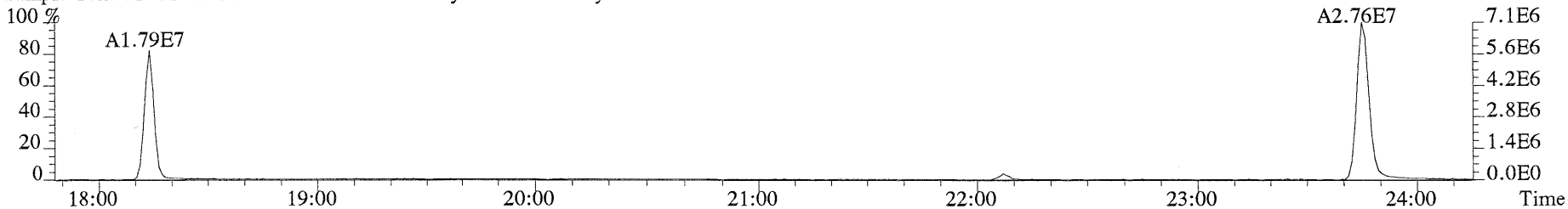
File:24JUL19Z #1-783 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



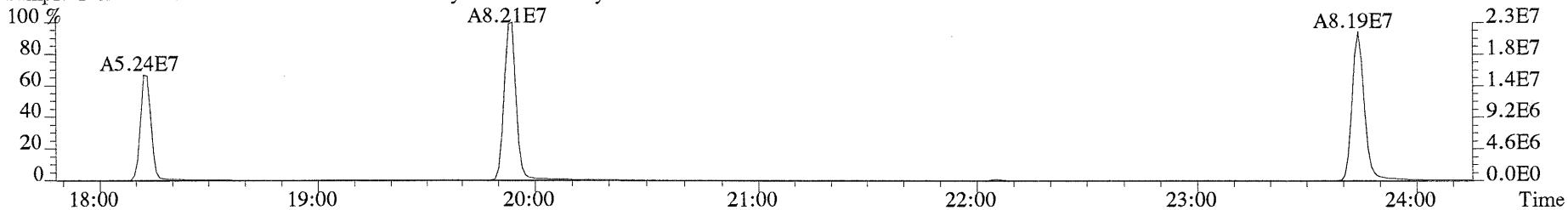
File:24JUL19Z #1-520 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



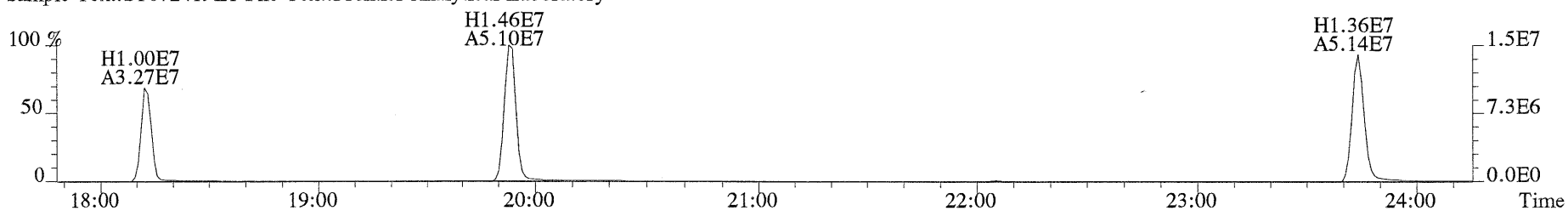
File:24JUL19Z #1-520 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
223.9975 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



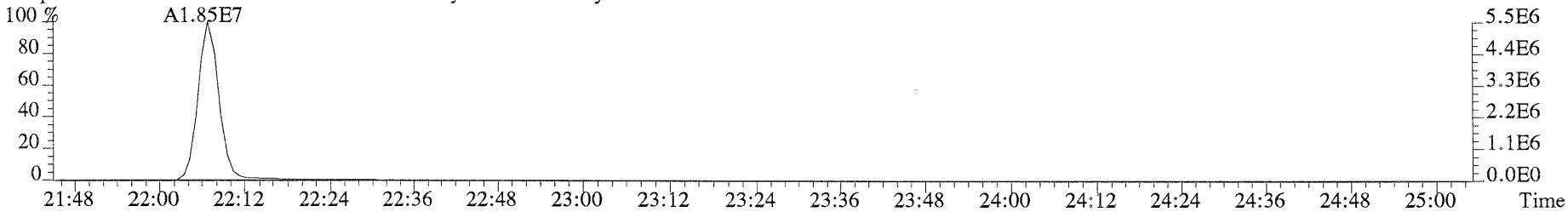
File:24JUL19Z #1-520 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



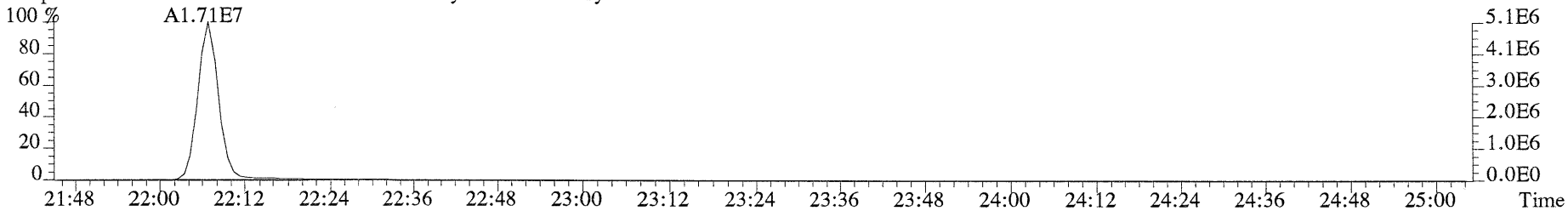
File:24JUL19Z #1-520 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



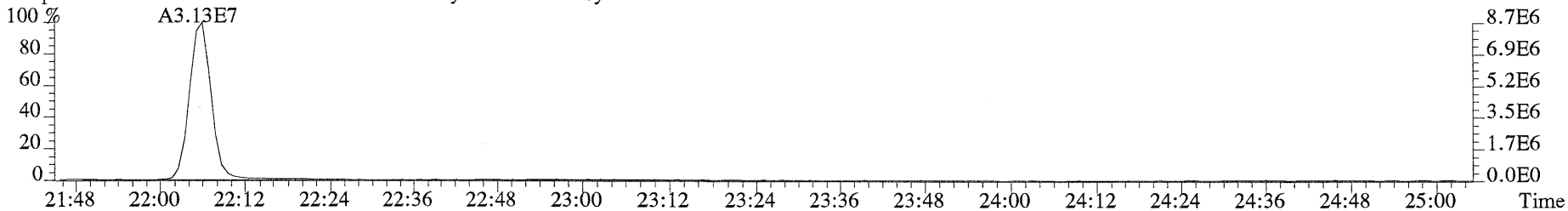
File:24JUL19Z #1-520 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



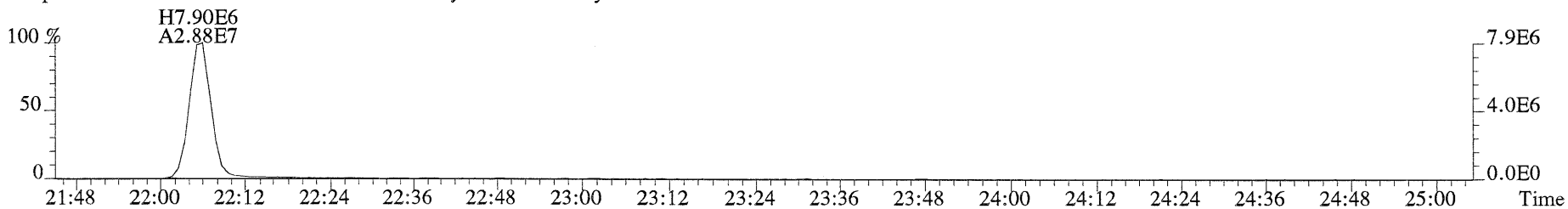
File:24JUL19Z #1-520 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



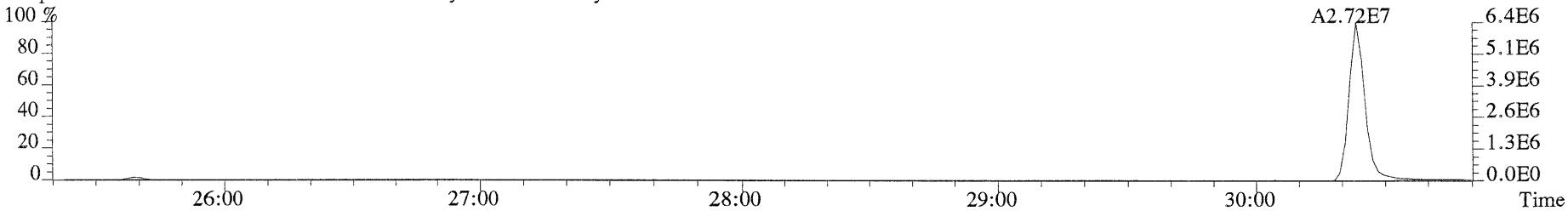
File:24JUL19Z #1-520 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



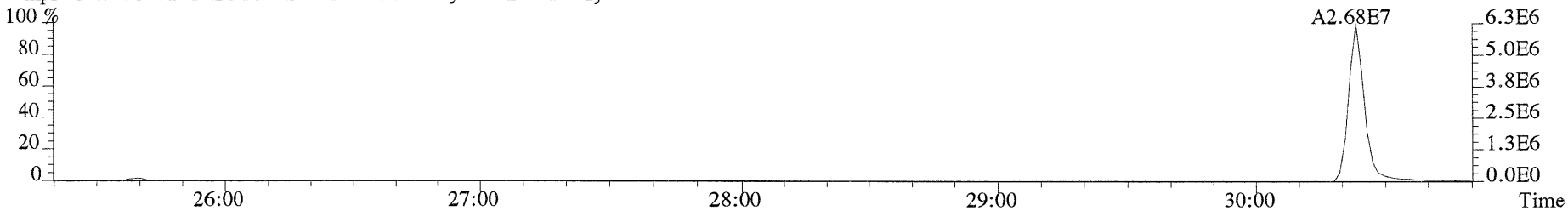
File:24JUL19Z #1-520 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



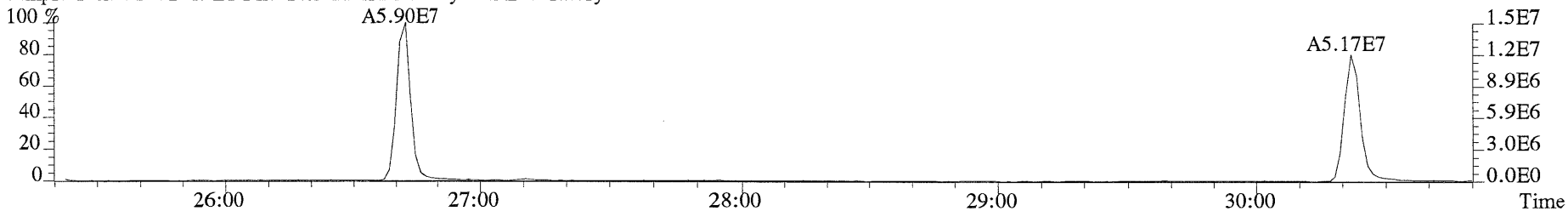
File:24JUL19Z #1-401 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



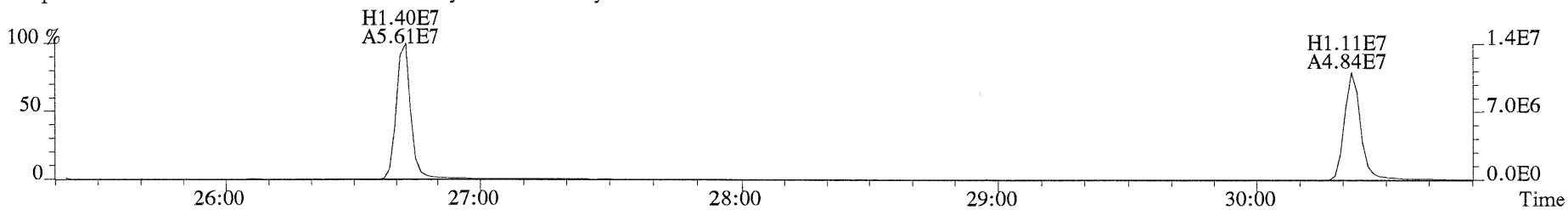
File:24JUL19Z #1-401 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



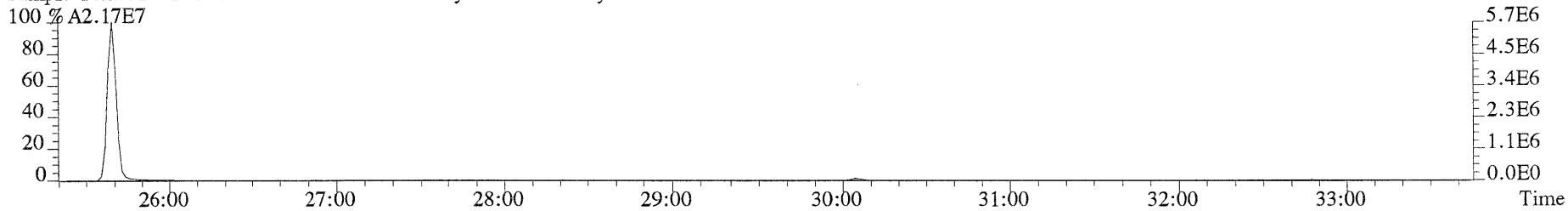
File:24JUL19Z #1-401 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



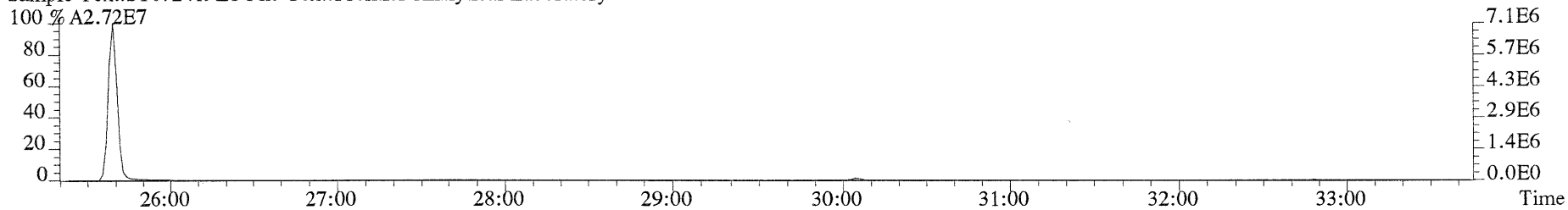
File:24JUL19Z #1-401 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



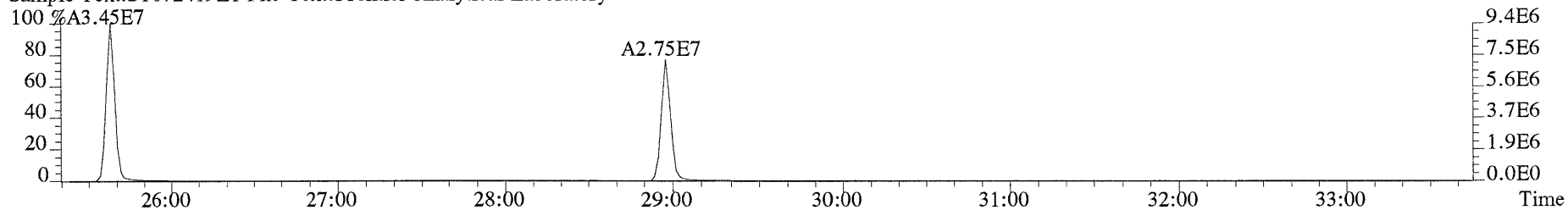
File:24JUL19Z #1-401 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



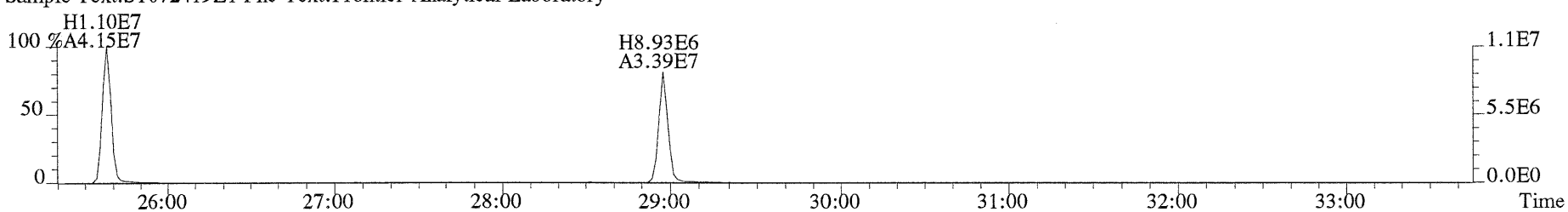
File:24JUL19Z #1-401 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



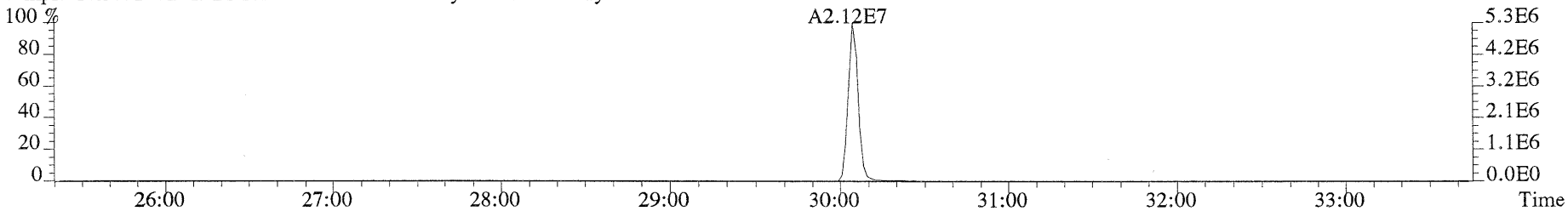
File:24JUL19Z #1-401 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



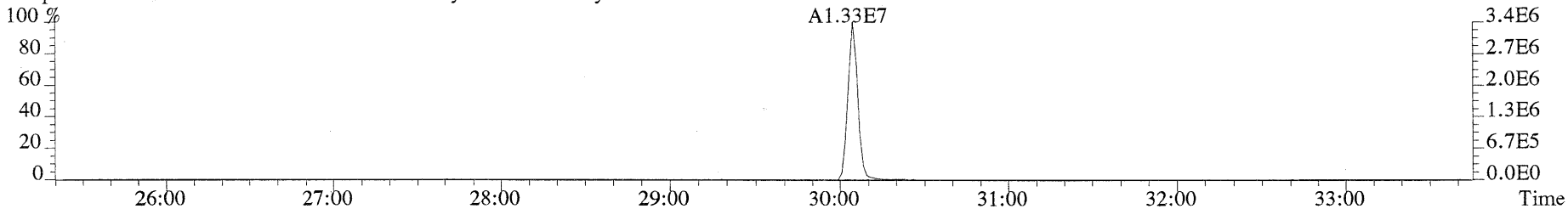
File:24JUL19Z #1-401 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-401 Acq:24-JUL-2019 11:03:04 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:ST072419Z1 File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-401 Acq:24-JUL-2019 11:03:04 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:ST072419Z1 File Text:Frontier Analytical Laboratory



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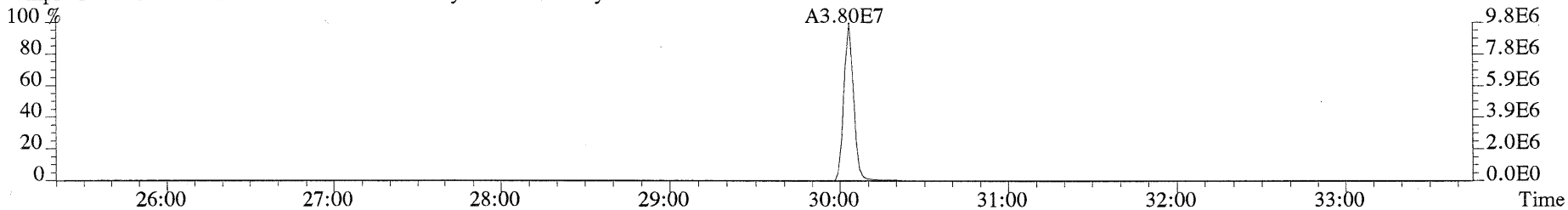
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



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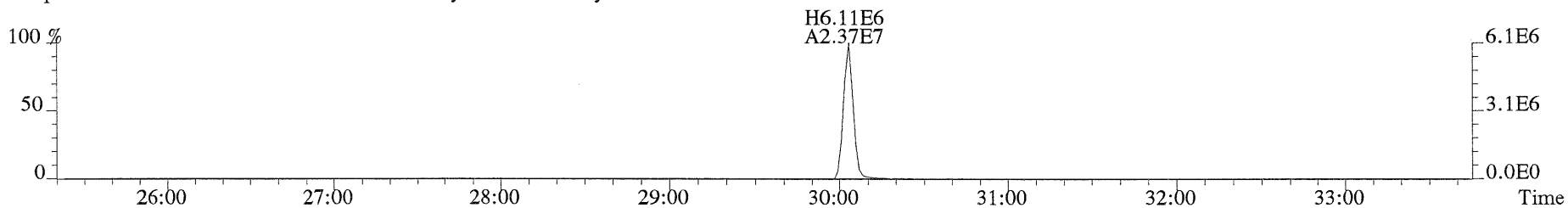
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



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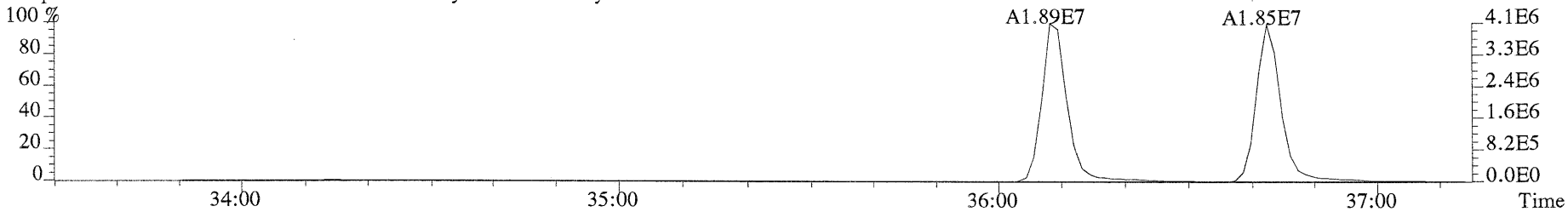
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



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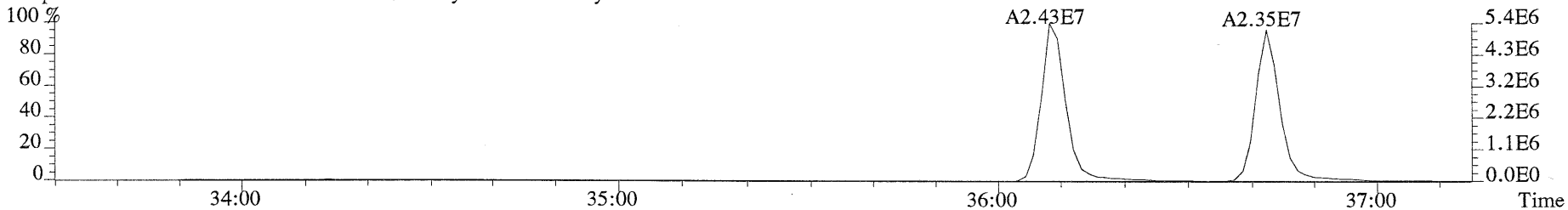
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



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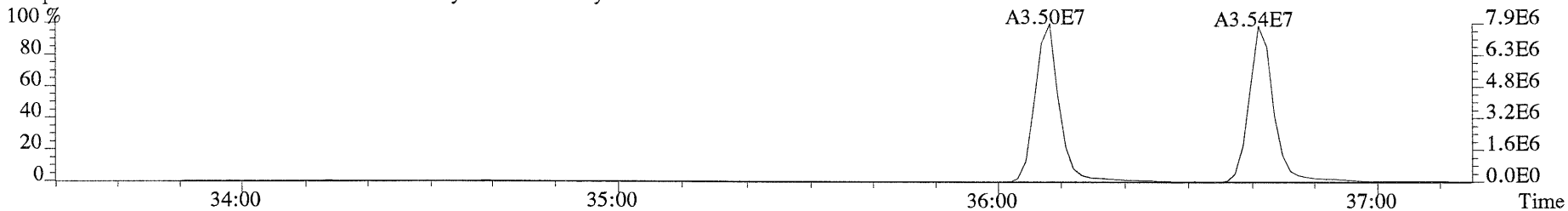
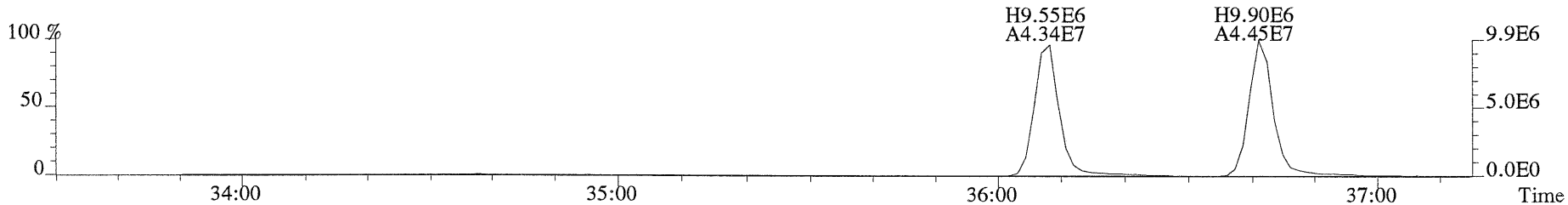
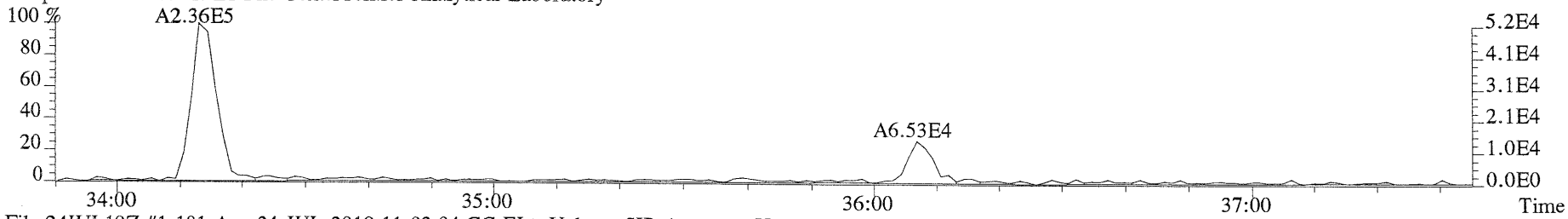
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



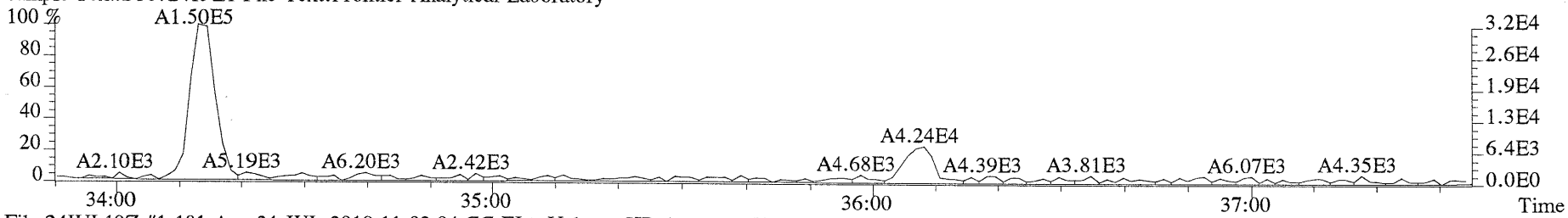
File:24JUL19Z #1-181 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



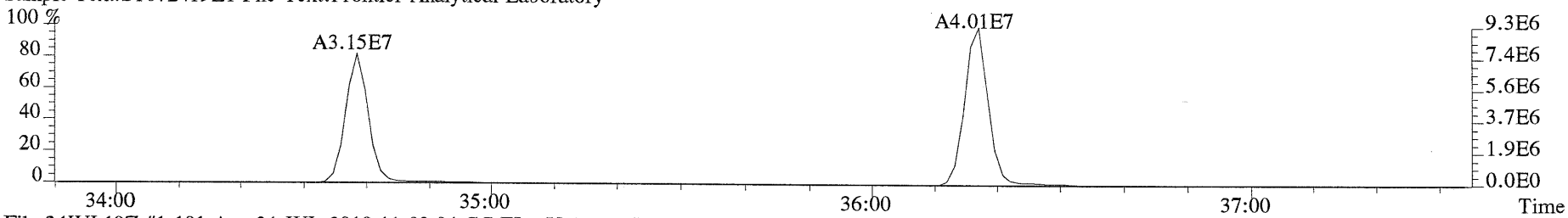
File:24JUL19Z #1-181 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



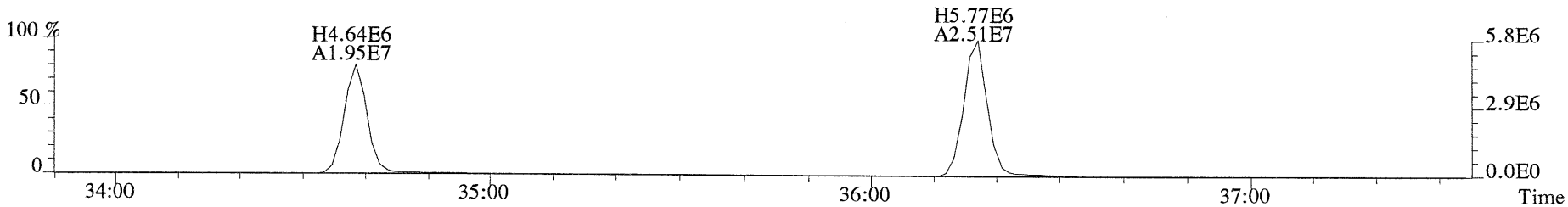
File:24JUL19Z #1-181 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



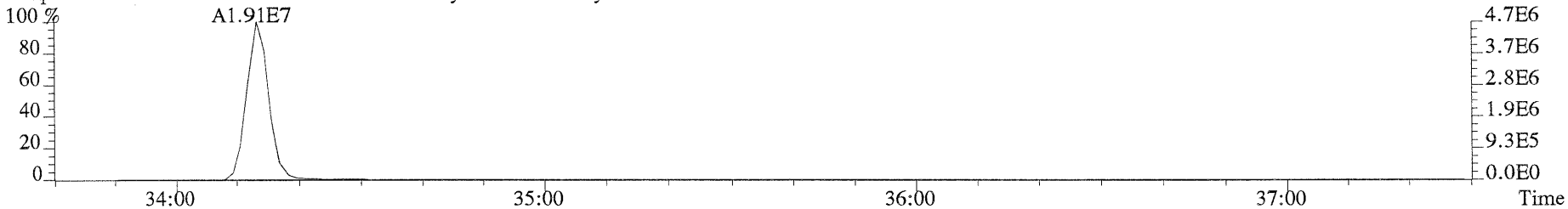
File:24JUL19Z #1-181 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



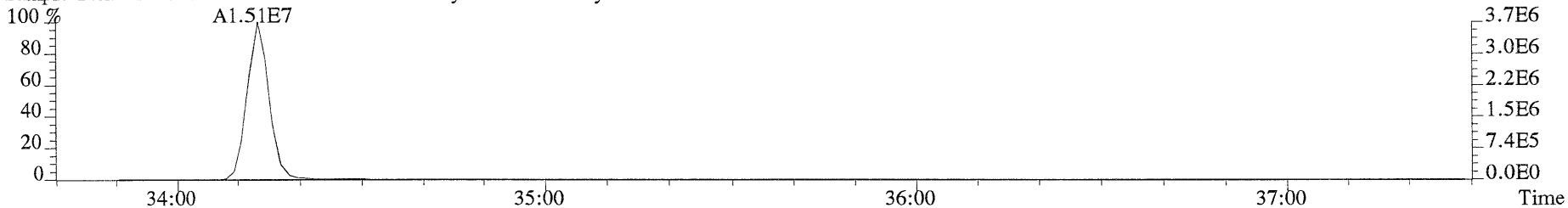
File:24JUL19Z #1-181 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



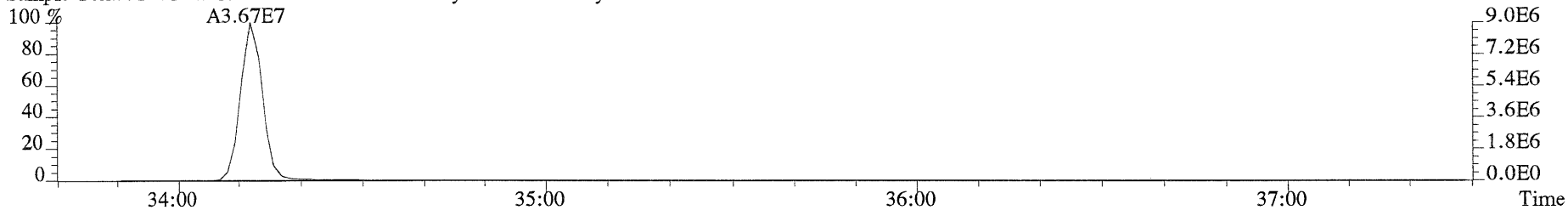
File:24JUL19Z #1-181 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-181 Acq:24-JUL-2019 11:03:04 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:ST072419Z1 File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-181 Acq:24-JUL-2019 11:03:04 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:ST072419Z1 File Text:Frontier Analytical Laboratory



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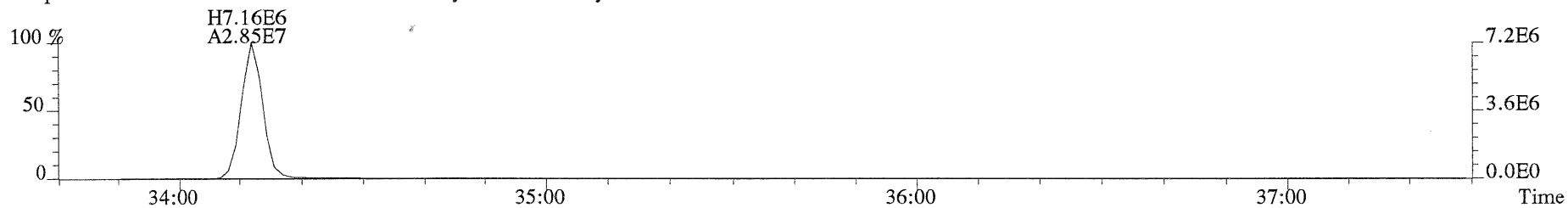
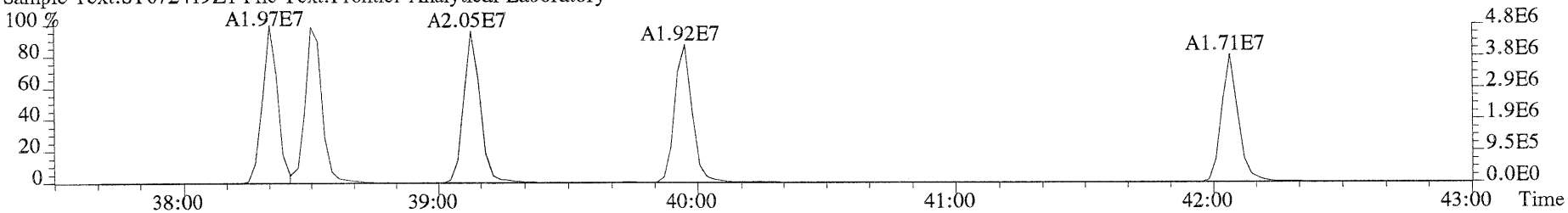
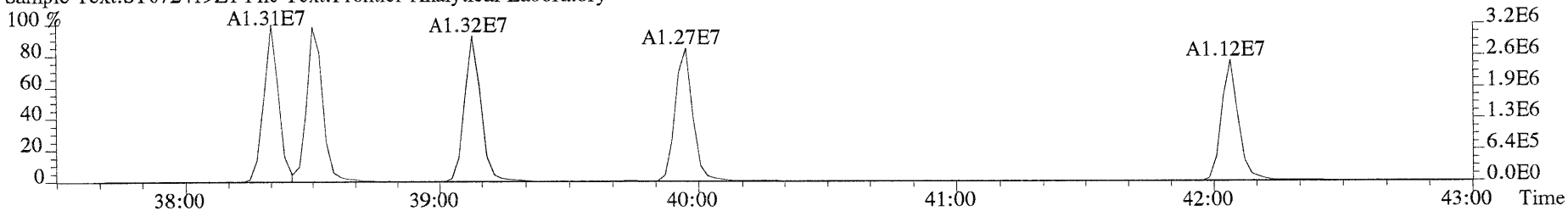
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 11:03:04 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:ST072419Z1 File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 11:03:04 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:ST072419Z1 File Text:Frontier Analytical Laboratory



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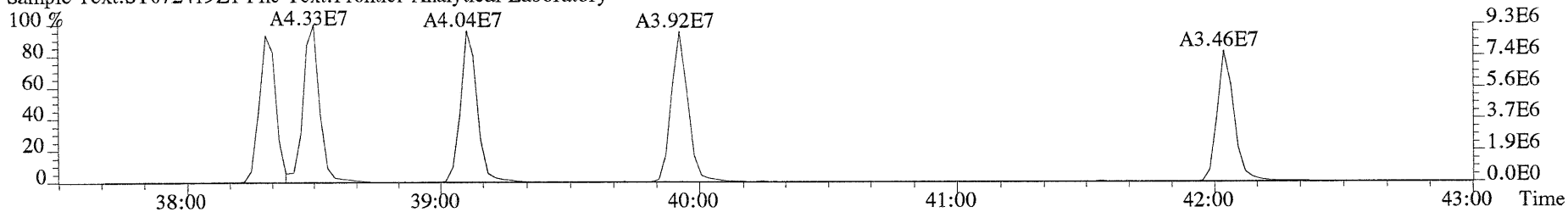
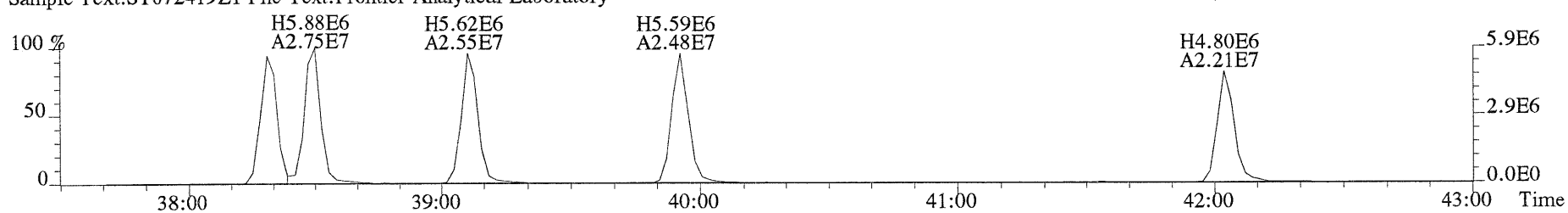
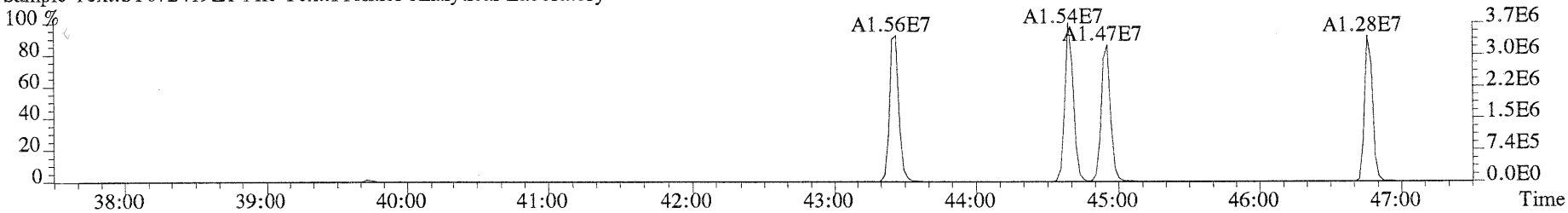
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



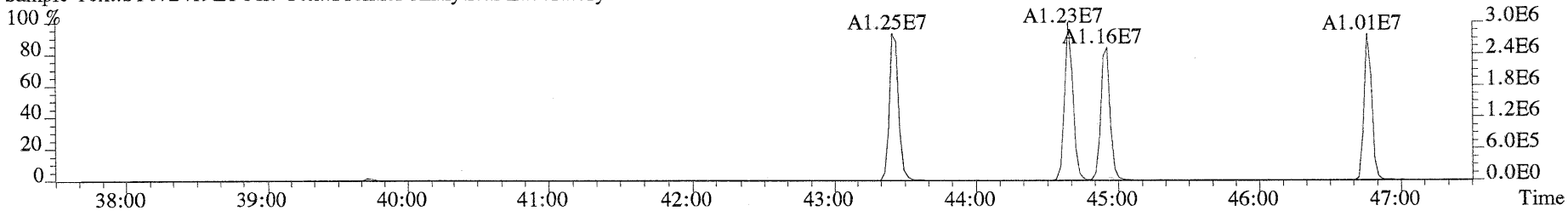
File:24JUL19Z #1-405 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



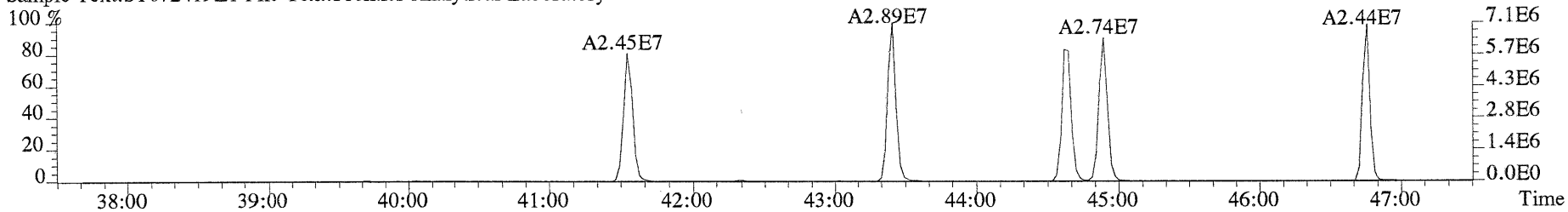
File:24JUL19Z #1-405 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 11:03:04 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:ST072419Z1 File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 11:03:04 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:ST072419Z1 File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-405 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
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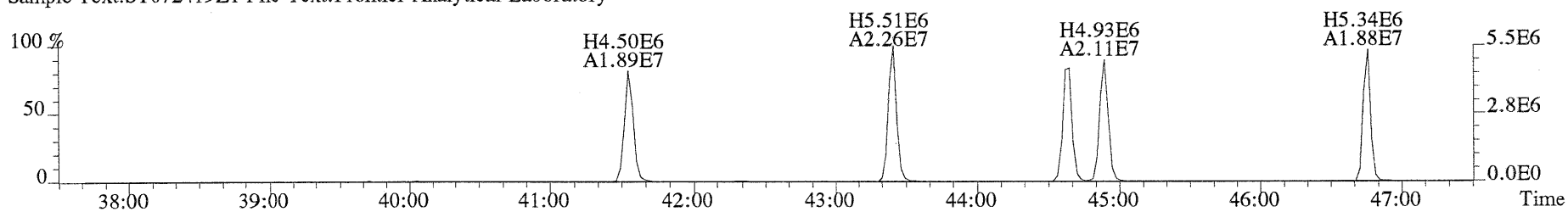
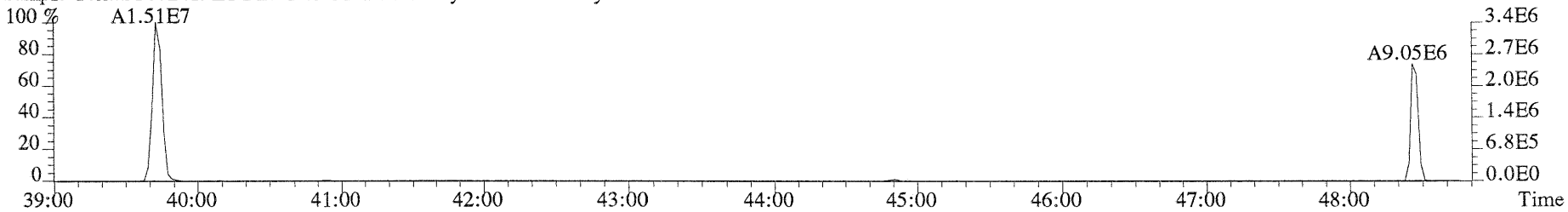
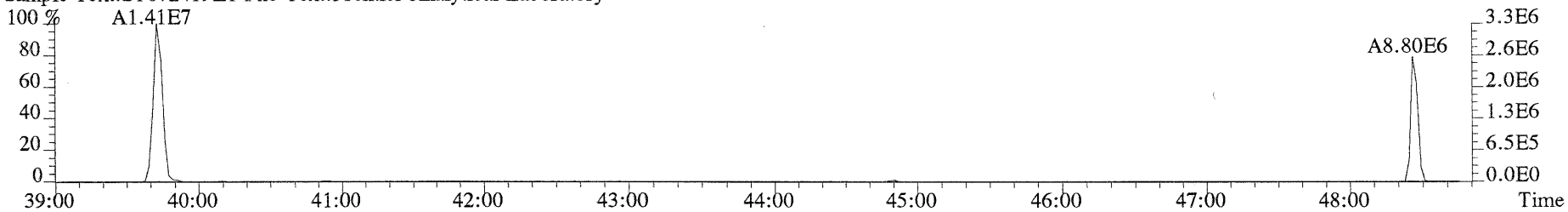
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



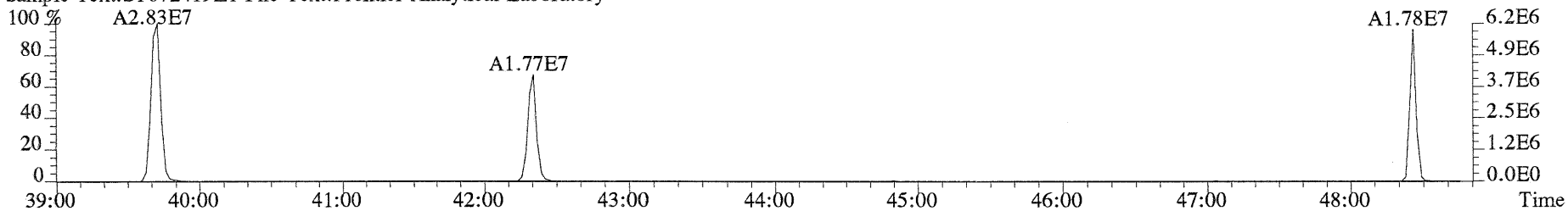
File:24JUL19Z #1-405 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



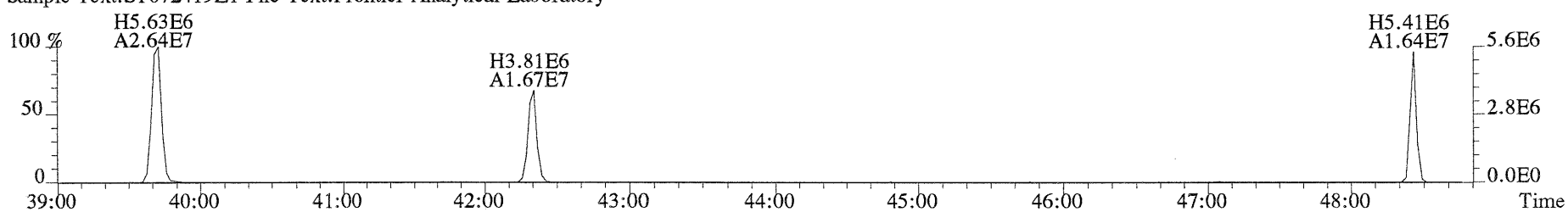
File:24JUL19Z #1-405 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



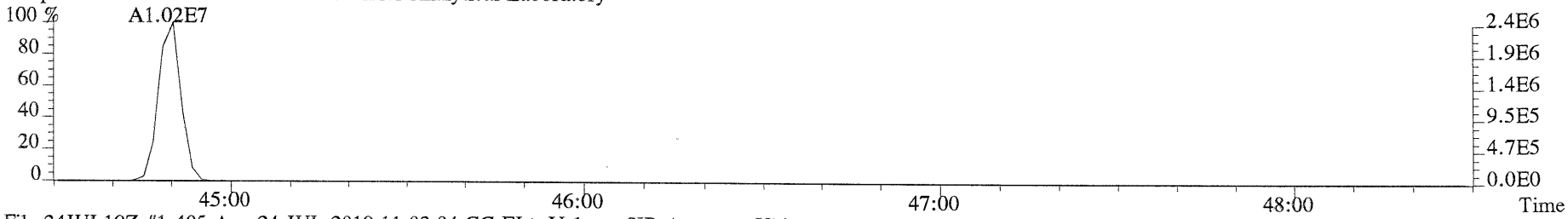
File:24JUL19Z #1-405 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



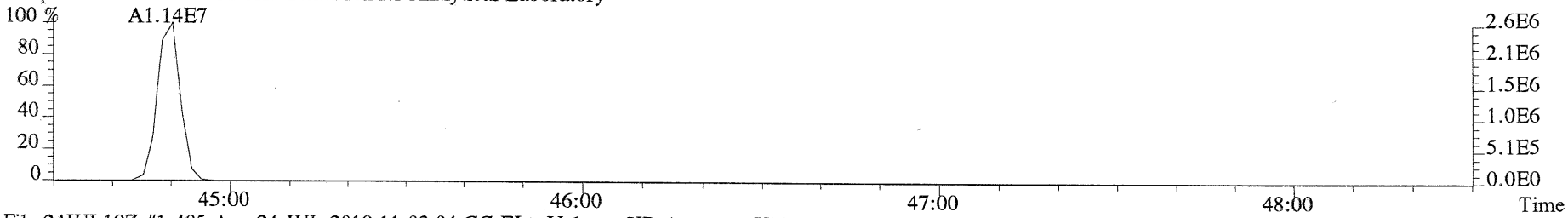
File:24JUL19Z #1-405 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



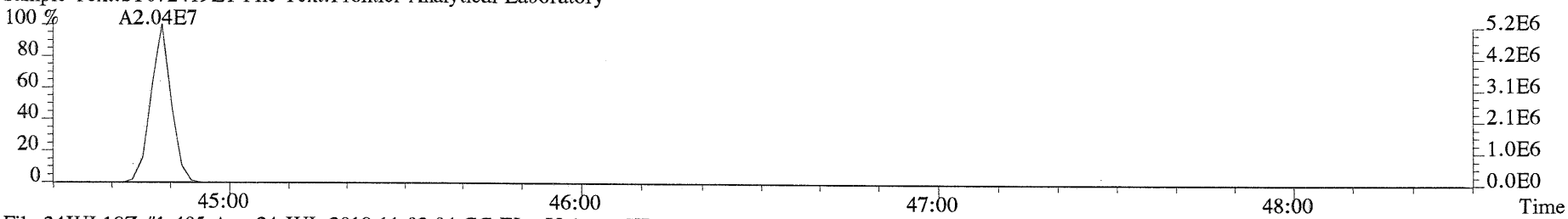
File:24JUL19Z #1-405 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



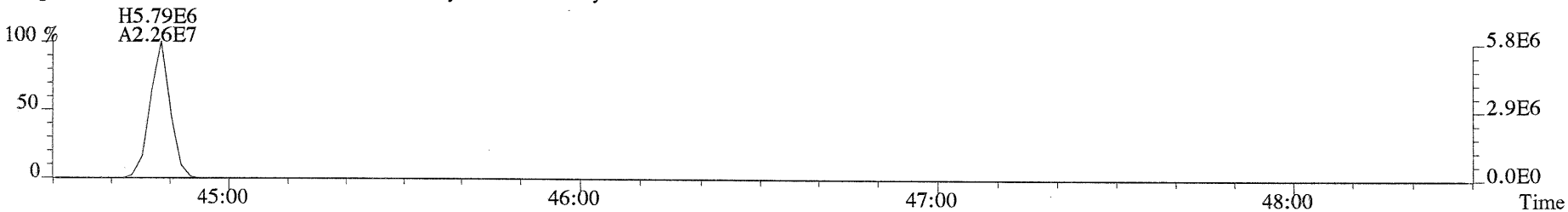
File:24JUL19Z #1-405 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



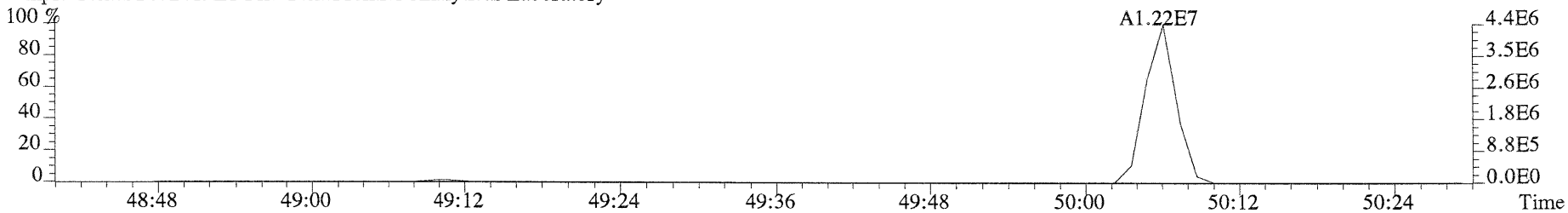
File:24JUL19Z #1-405 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



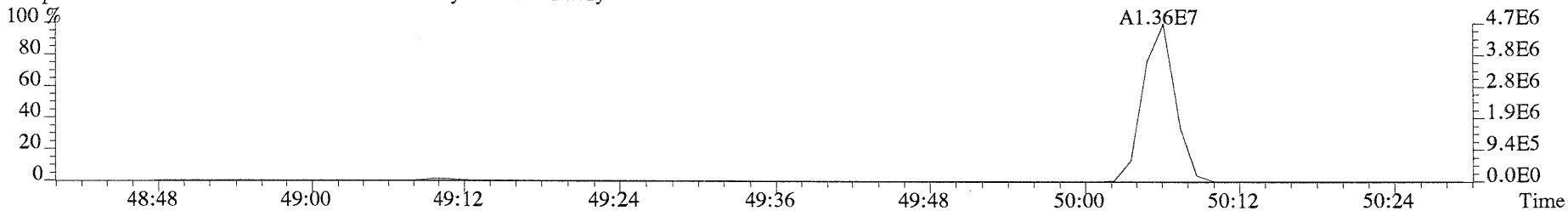
File:24JUL19Z #1-405 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



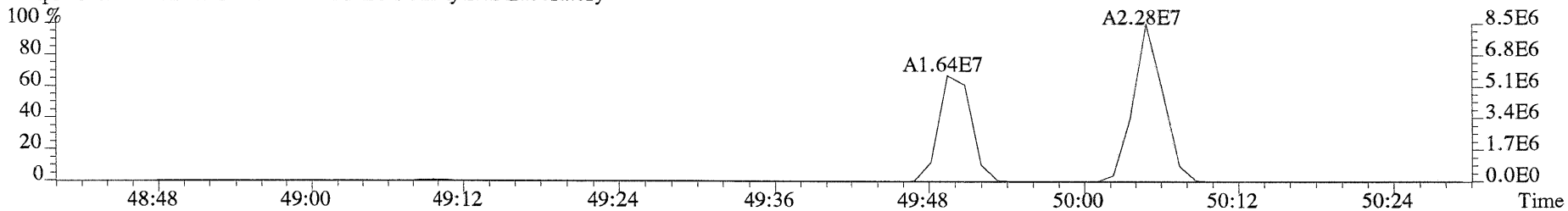
File:24JUL19Z #1-304 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



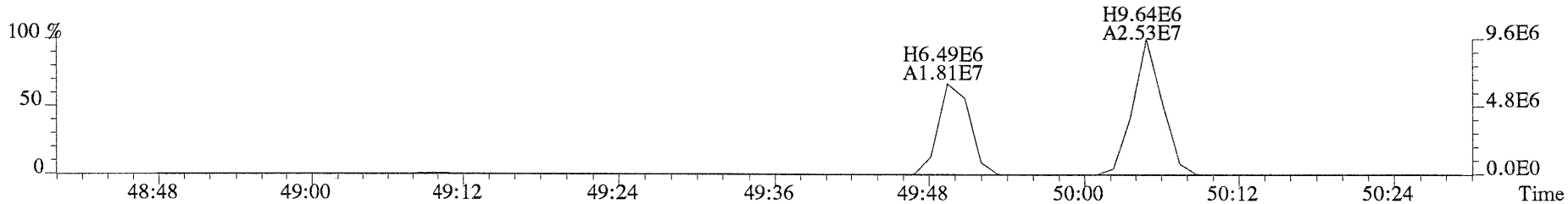
File:24JUL19Z #1-304 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



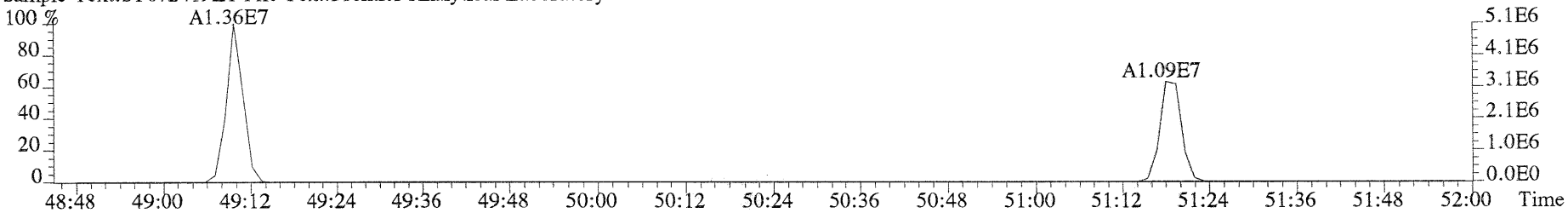
File:24JUL19Z #1-304 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



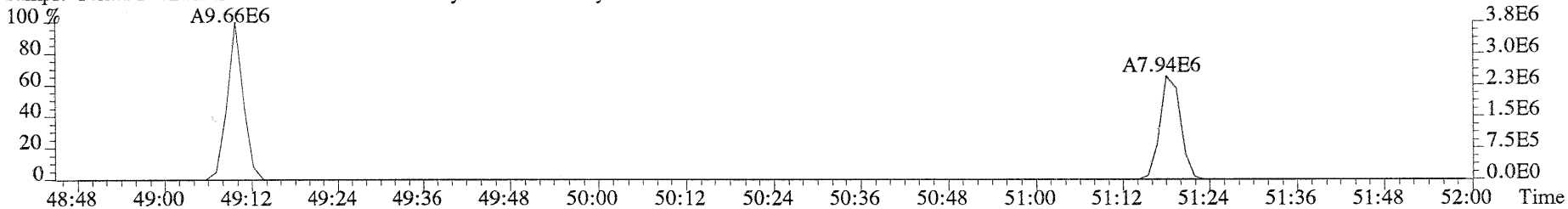
File:24JUL19Z #1-304 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



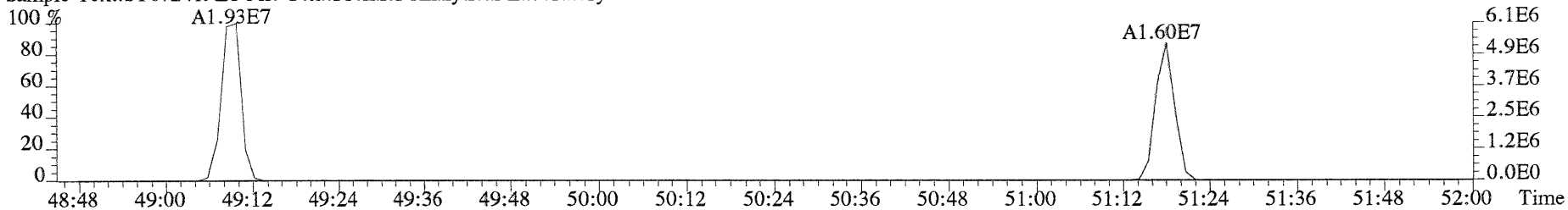
File:24JUL19Z #1-305 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



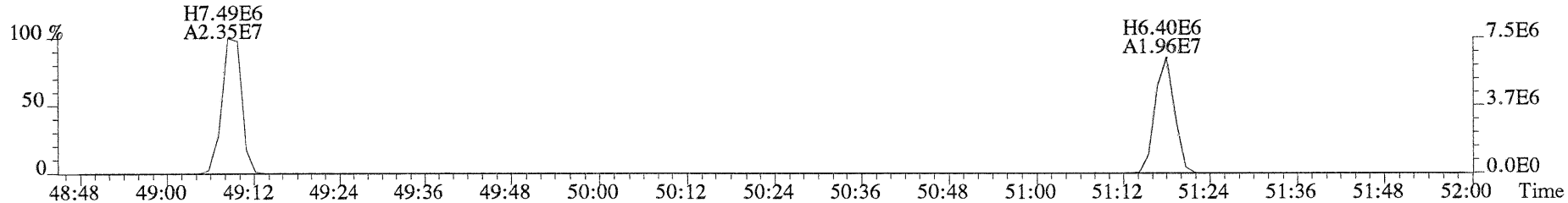
File:24JUL19Z #1-305 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



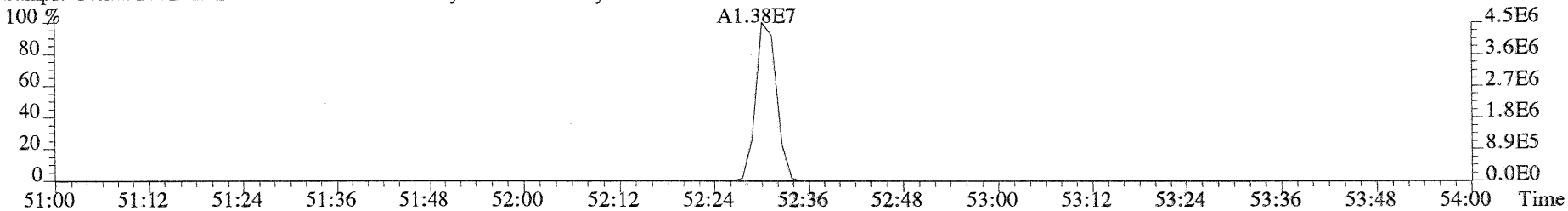
File:24JUL19Z #1-305 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



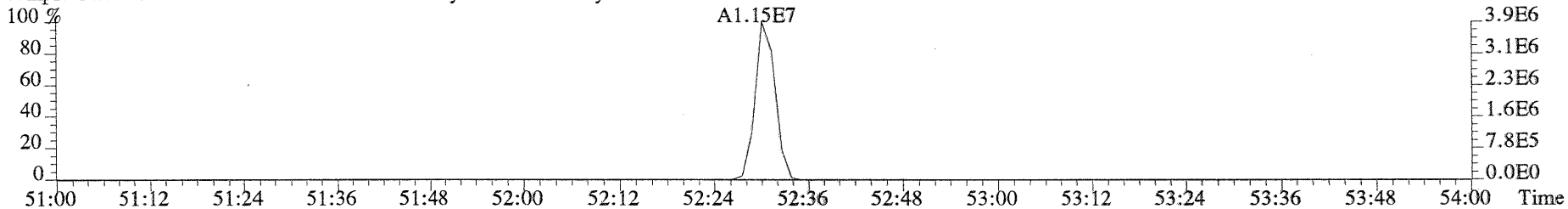
File:24JUL19Z #1-305 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



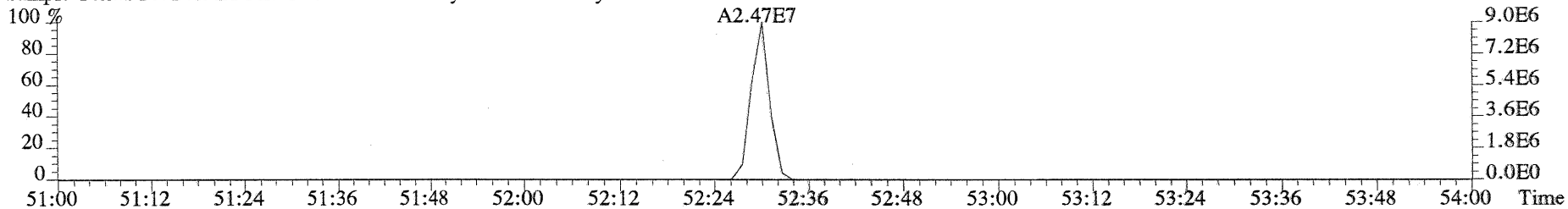
File:24JUL19Z #1-306 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



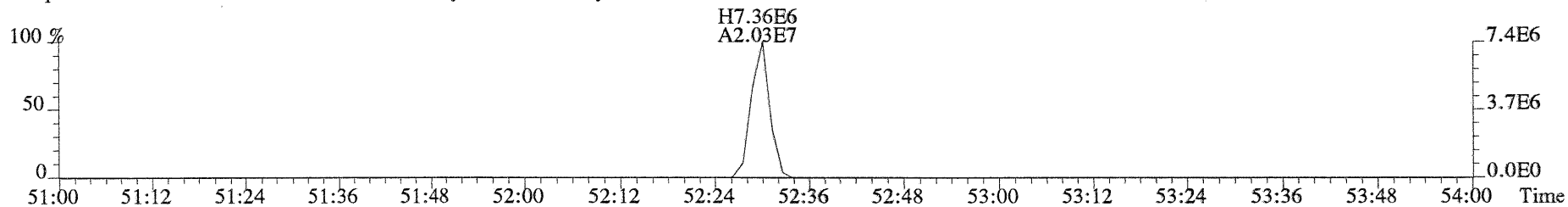
File:24JUL19Z #1-306 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory



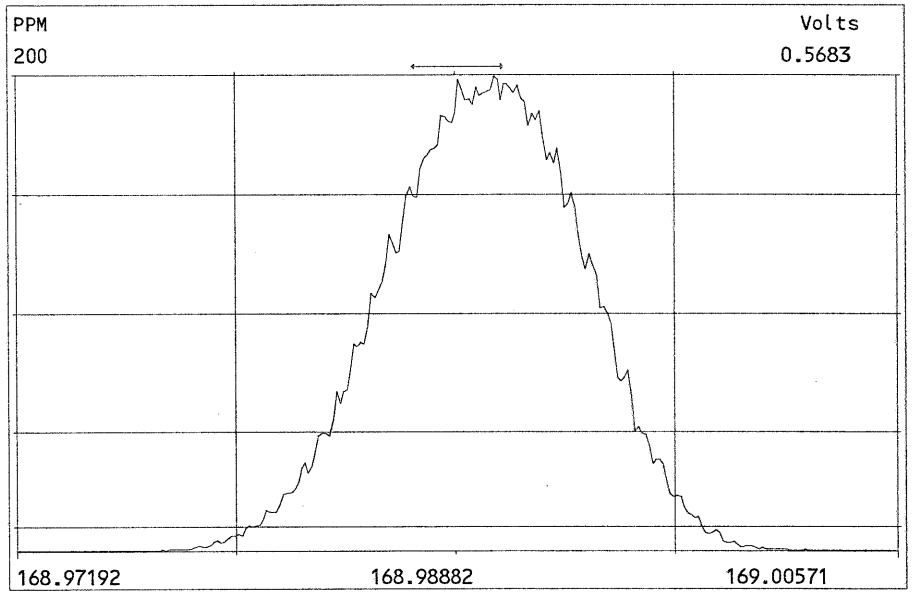
File:24JUL19Z #1-306 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory

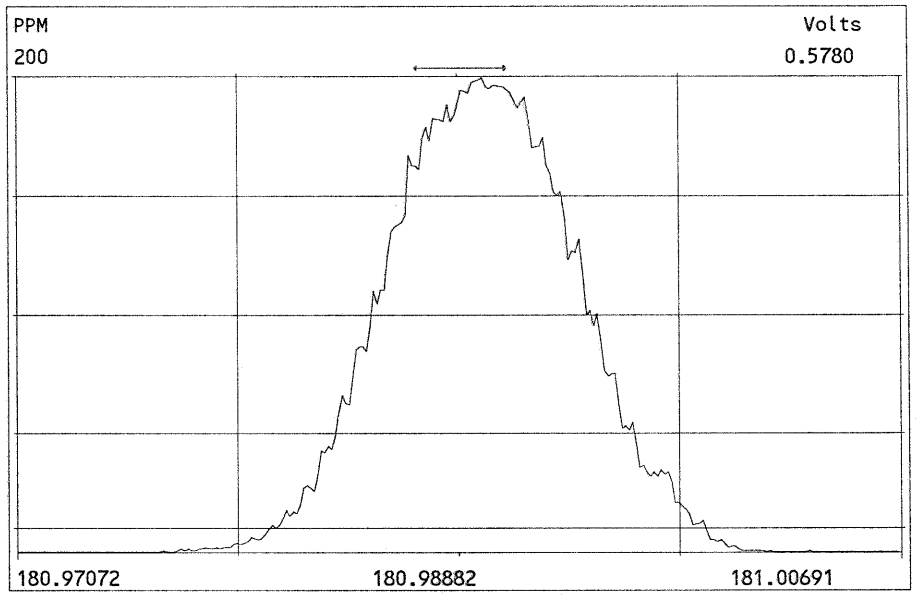


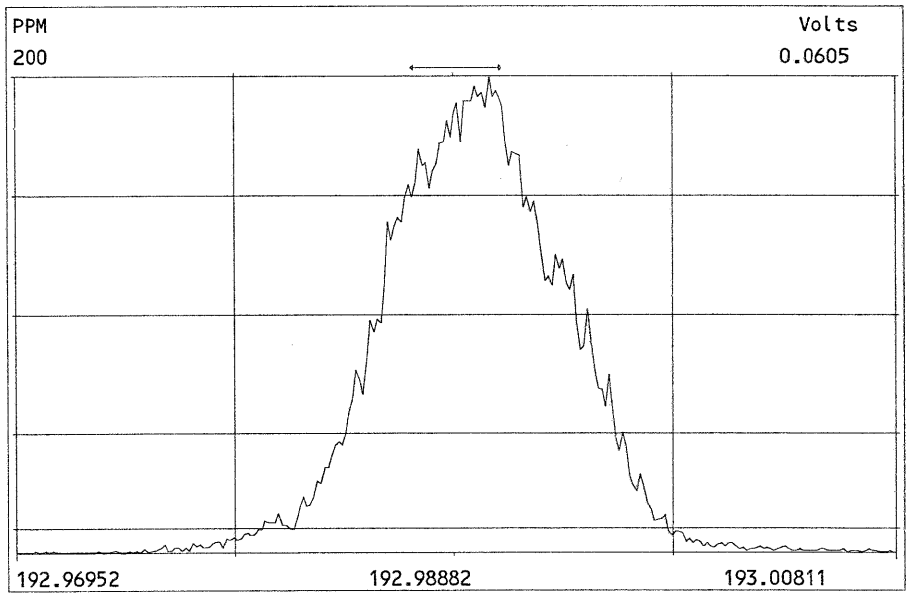
File:24JUL19Z #1-306 Acq:24-JUL-2019 11:03:04 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z1 File Text:Frontier Analytical Laboratory

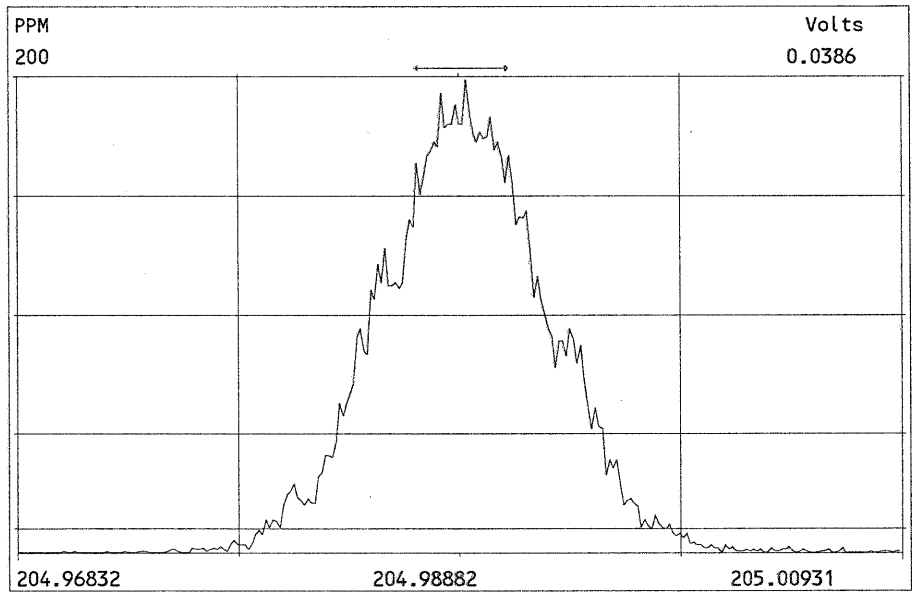


Peak Locate Examination:25-JUL-2019:03:07 File:24JUL19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

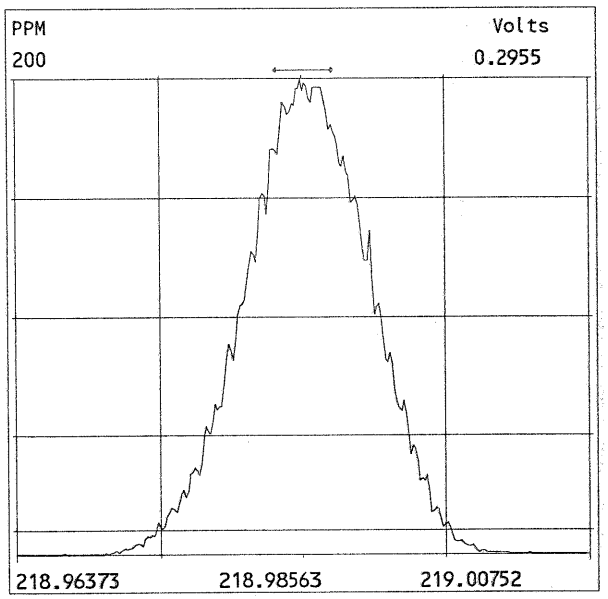


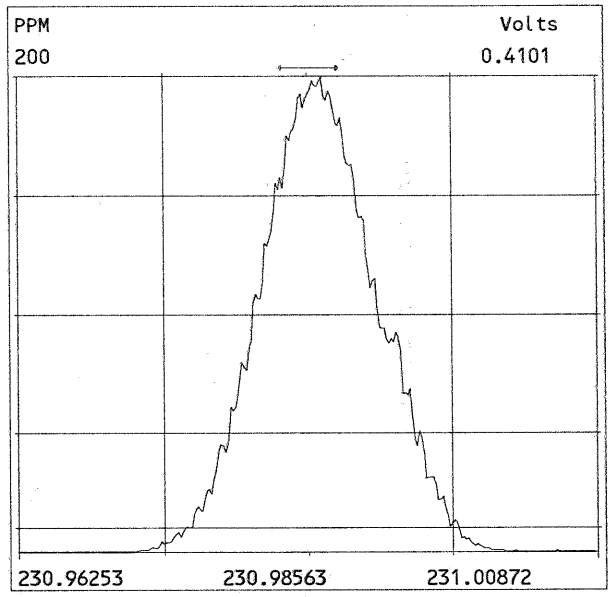


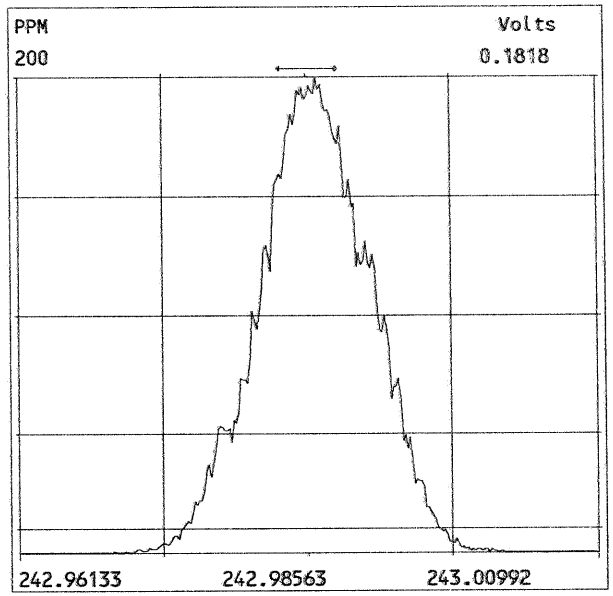


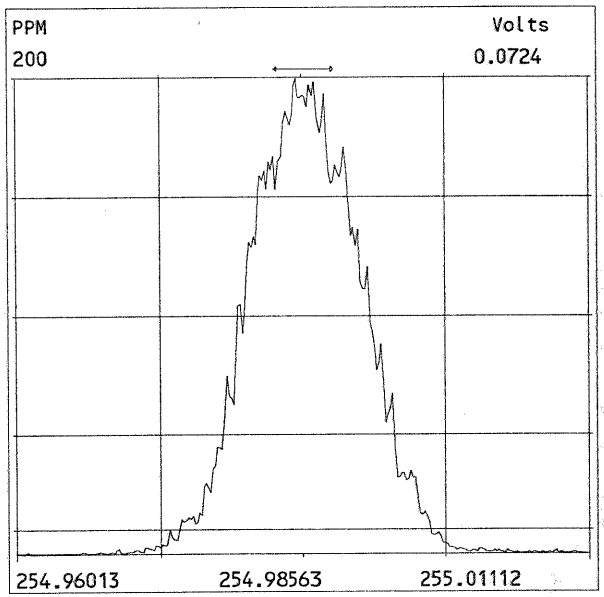


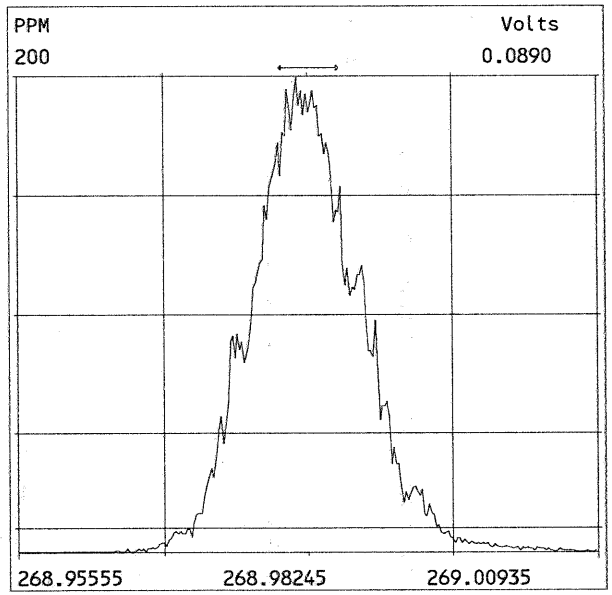
Peak Locate Examination:25-JUL-2019:03:09 File:24JUL19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

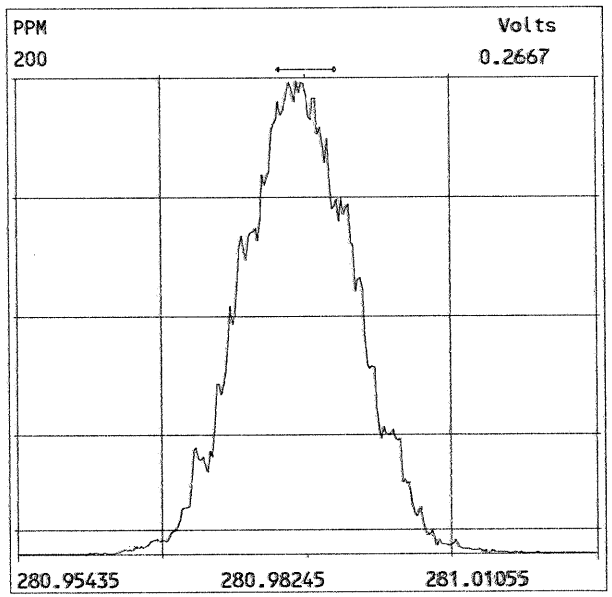




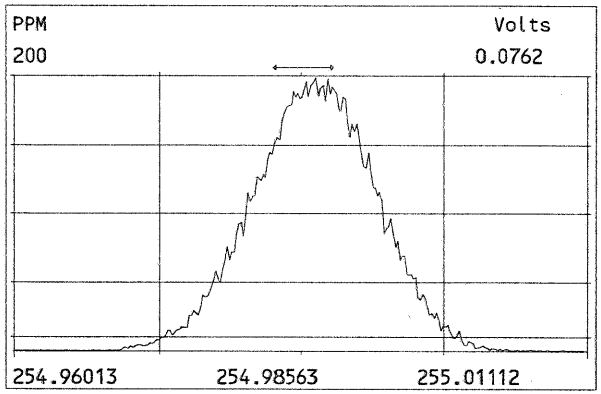


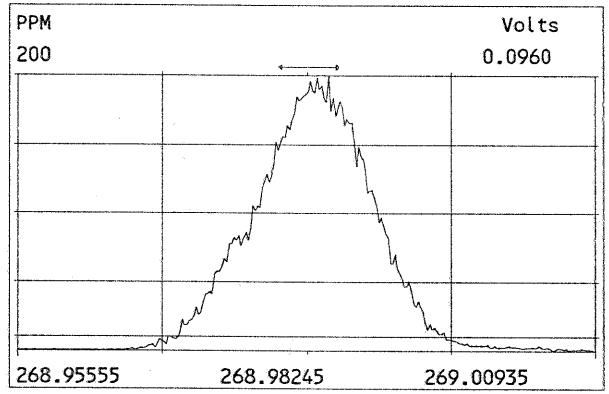


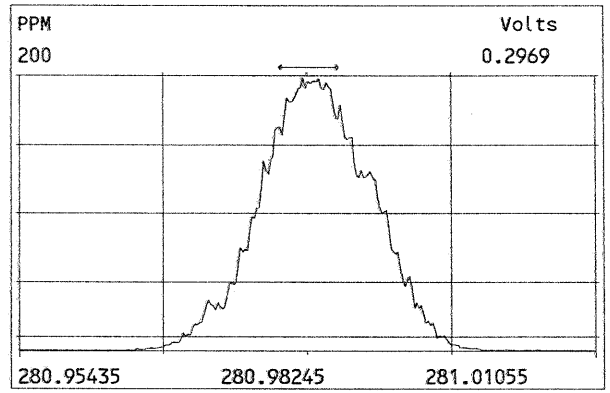


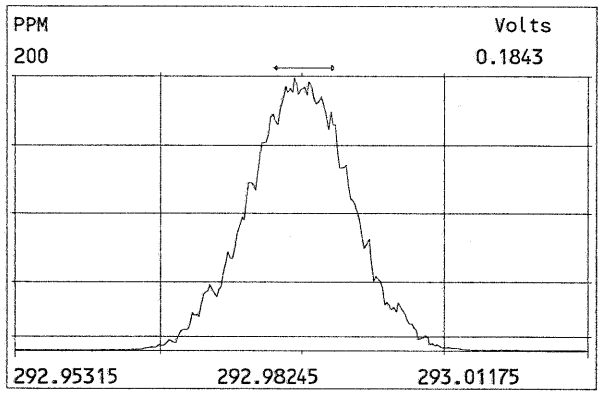


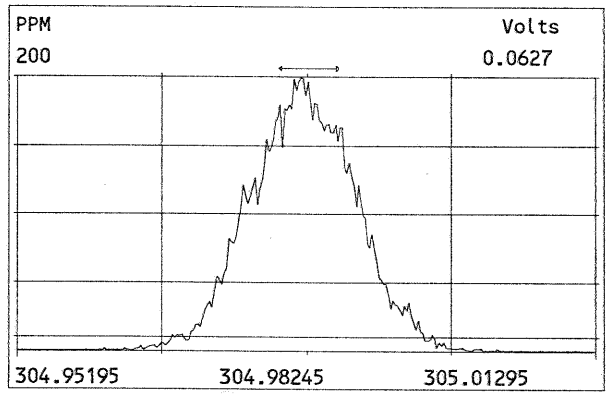
Peak Locate Examination:25-JUL-2019:03:12 File:24JUL19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

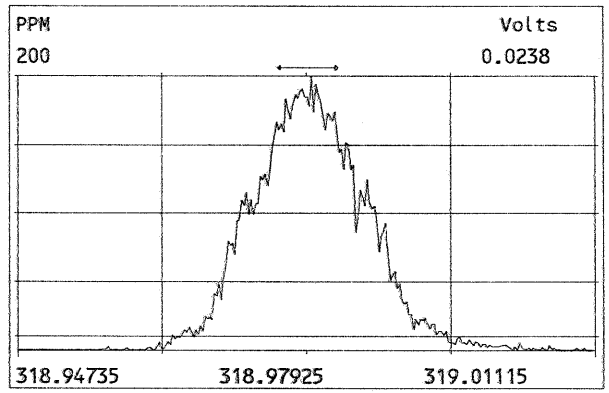


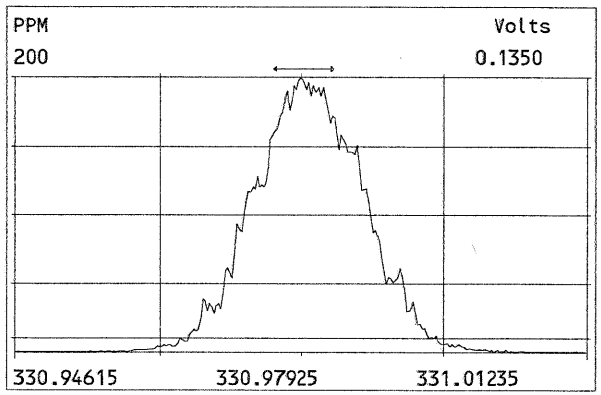


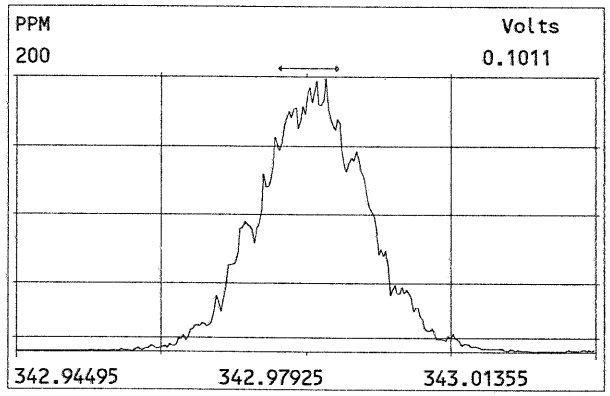




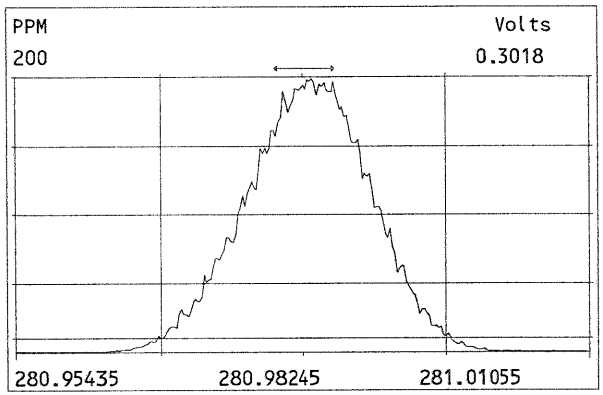


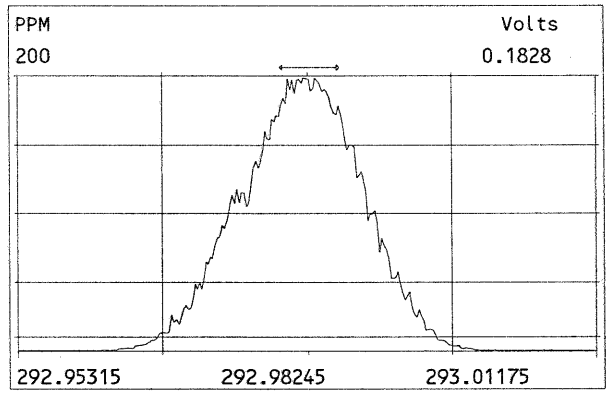


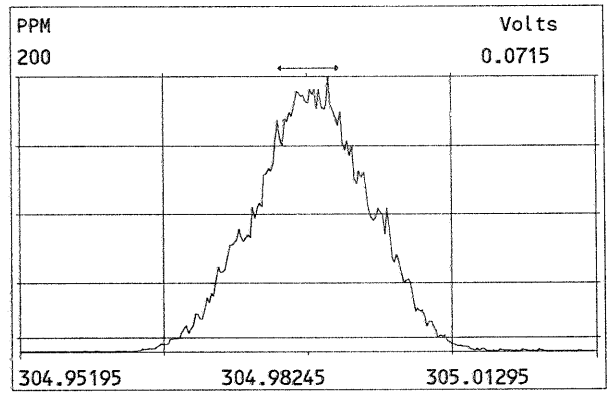


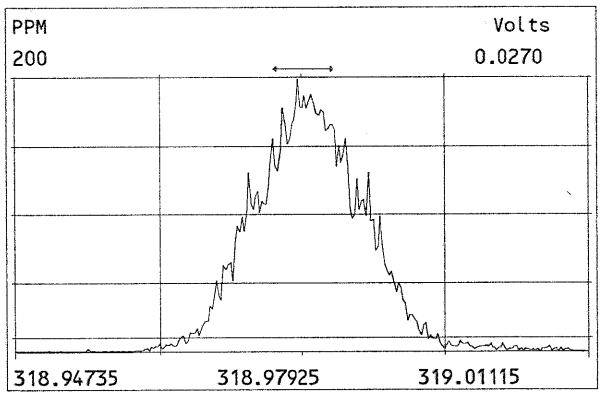


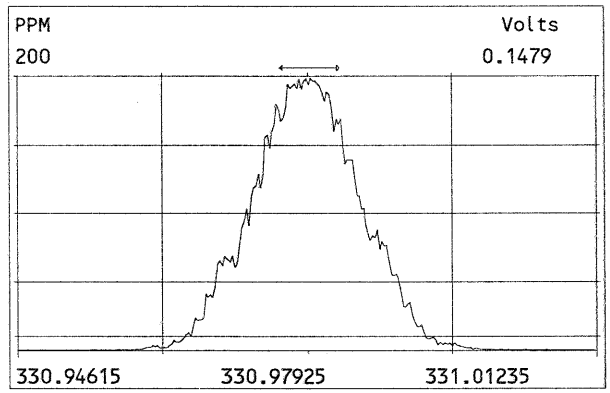
Peak Locate Examination:25-JUL-2019:03:14 File:24JUL19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

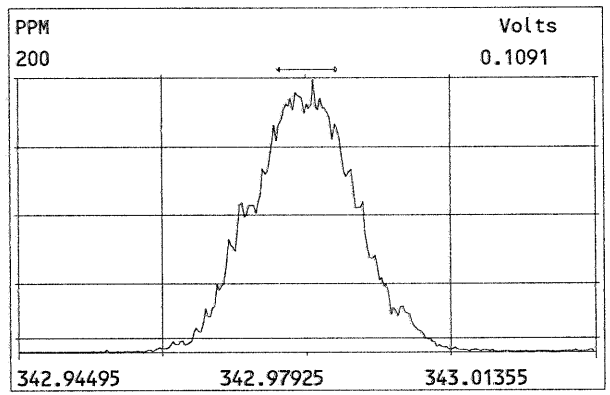


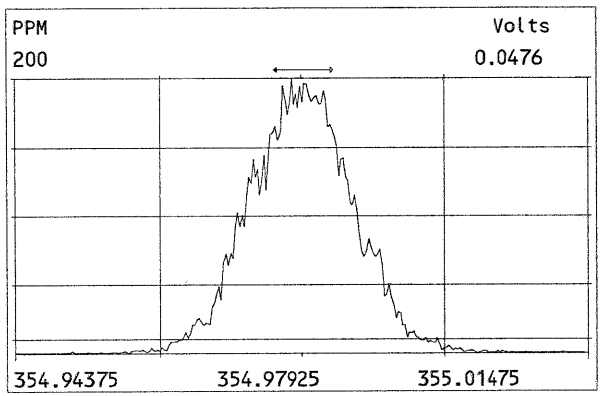


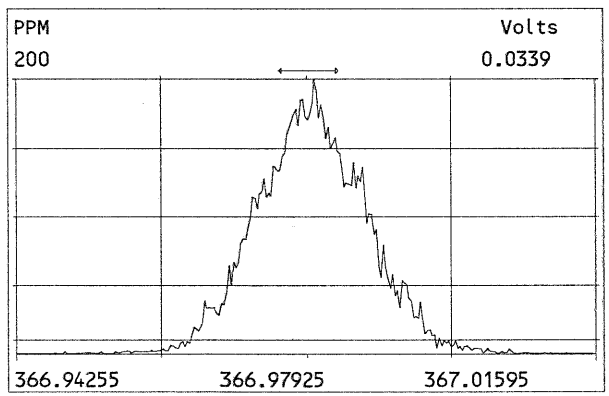


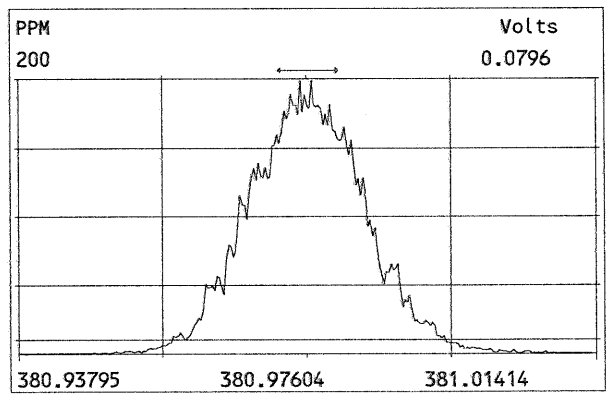




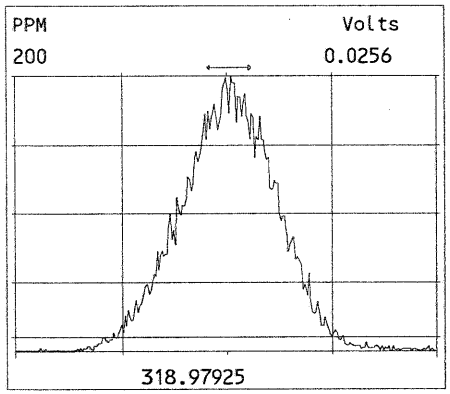


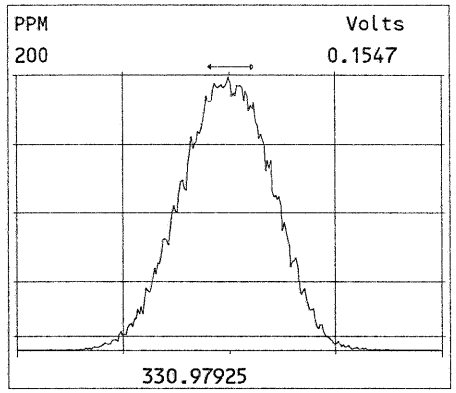


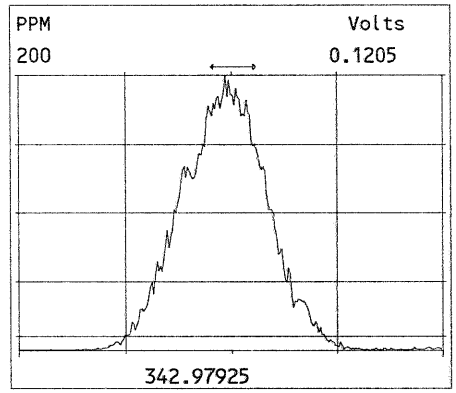


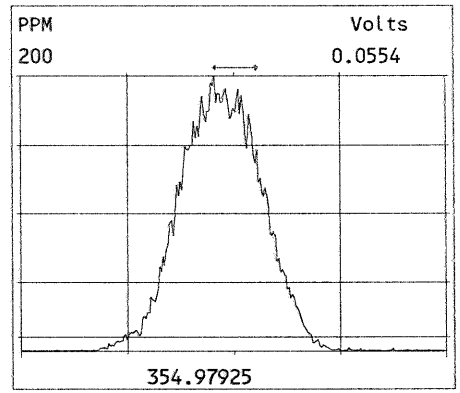


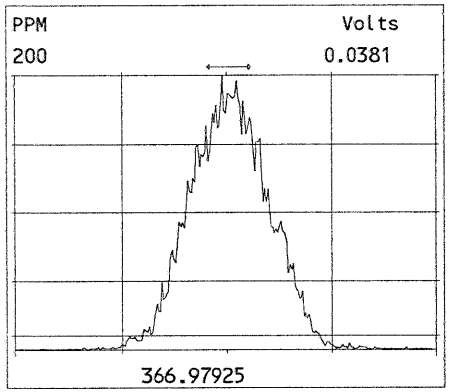
Peak Locate Examination:25-JUL-2019:03:17 File:24JUL19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

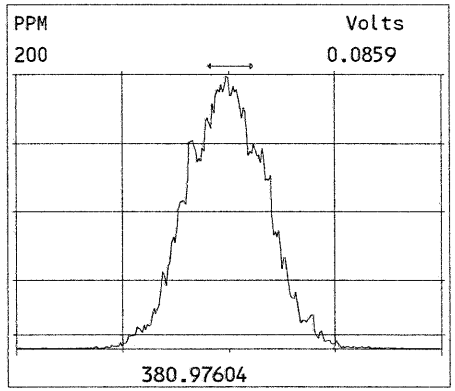


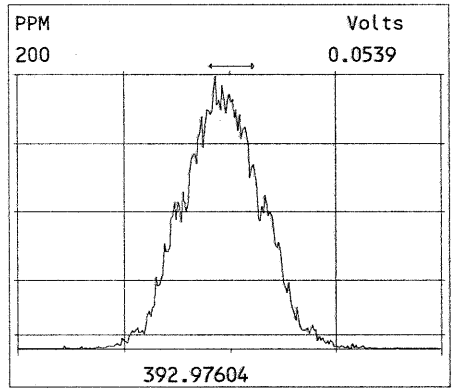


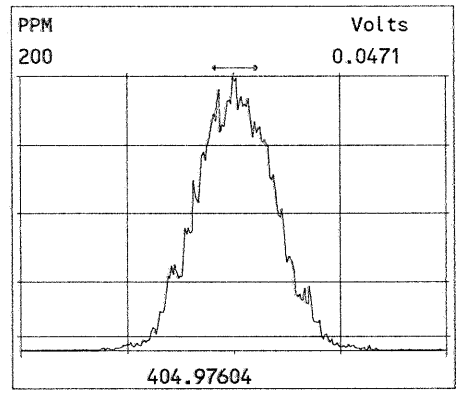


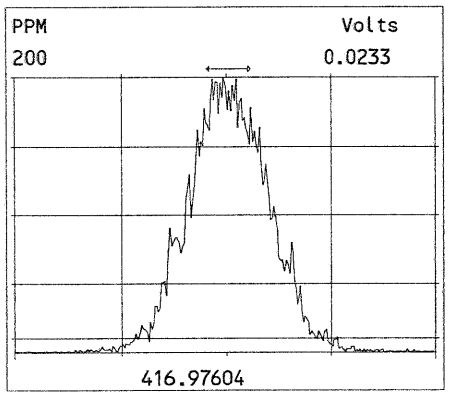


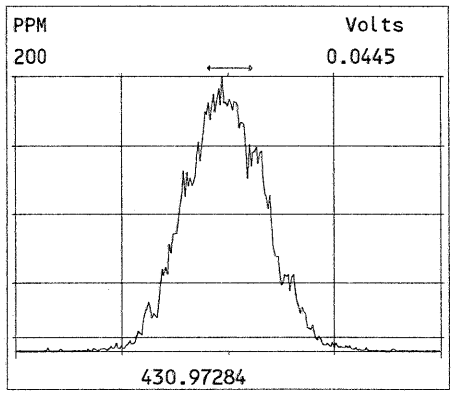


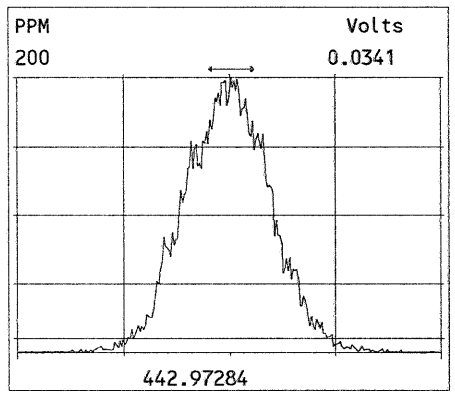




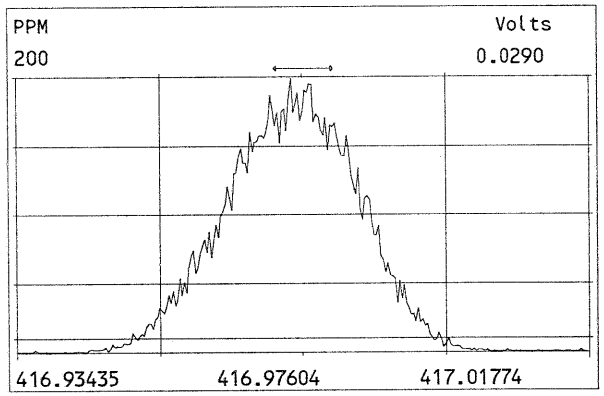


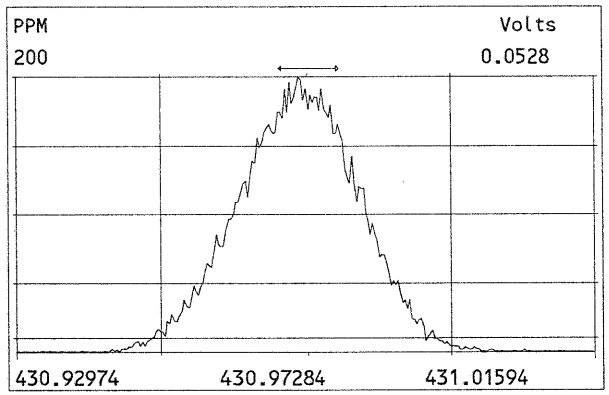


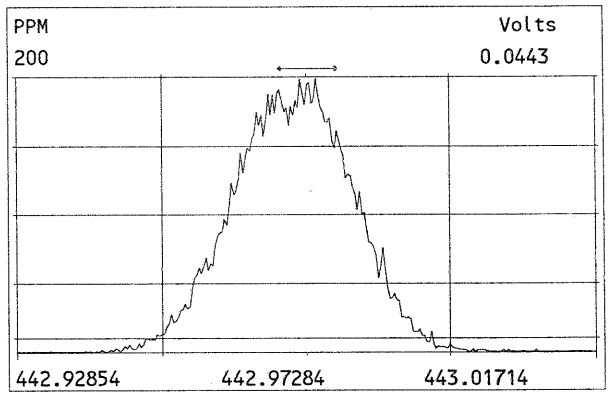


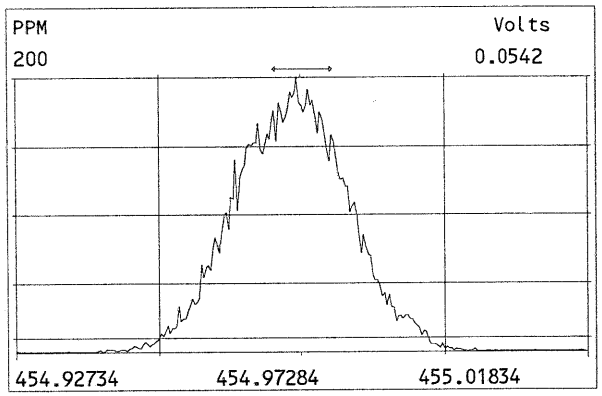


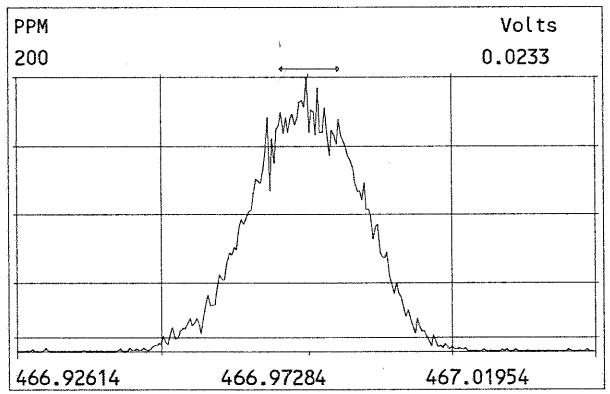
Peak Locate Examination:25-JUL-2019:03:19 File:24JUL19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

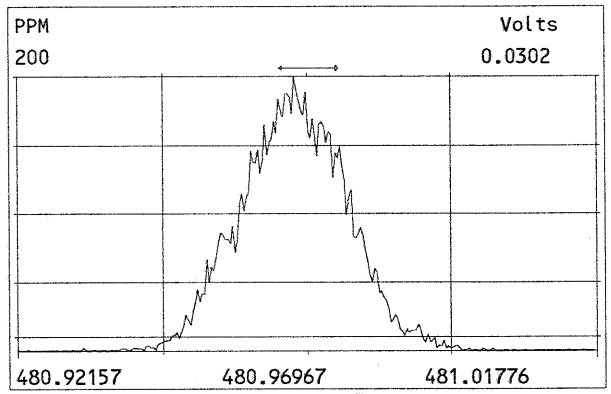


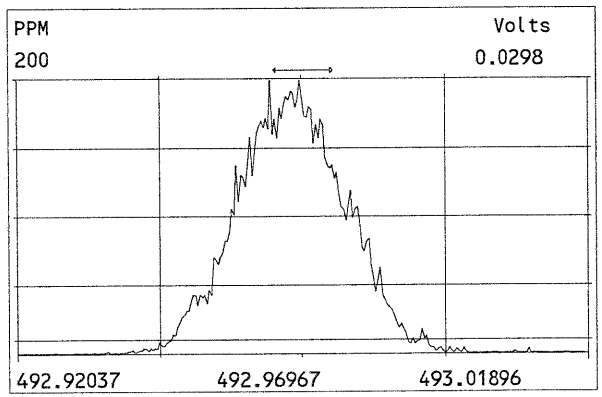


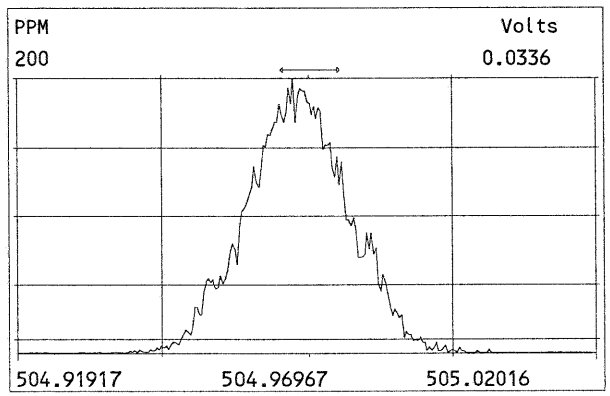


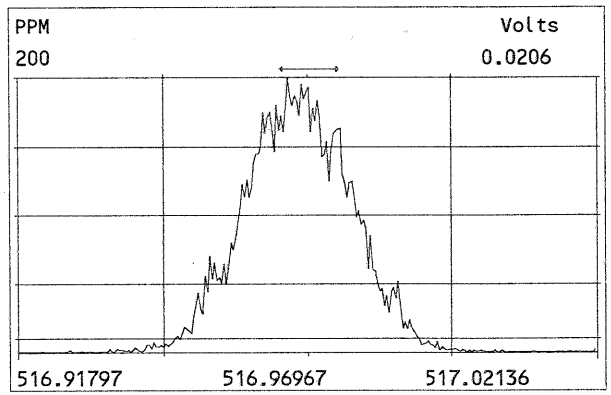












Cal: DAILYFAL4-7-24-19

Run: 24JUL19Z Analyte: DAILYFAL4-7-24-19 Results: 12532 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:24JUL19Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.1895	-	1.19	
13C-PCB-1	0.8226	-	0.82	
PCB-2	1.2184	-	1.22	
PCB-3	1.2133	-	1.21	
13C-PCB-3	0.8498	-	0.85	
PCB-4	1.1385	-	1.14	
PCB-10	1.3248	-	1.32	
13C-PCB-4	0.6264	-	0.63	
PCB-9	1.3910	-	1.39	
PCB-7	1.4199	-	1.42	
PCB-6	1.3897	-	1.39	
PCB-8	1.4113	-	1.41	
PCB-5	1.3735	-	1.37	
PCB-14	1.3068	-	1.31	
PCB-11	1.2280	-	1.23	
PCB-13	1.2608	-	1.26	
PCB-12	1.2583	-	1.26	
PCB-15	1.1632	-	1.16	
13C-PCB-15	0.9633	-	0.96	
PCB-19	1.1626	-	1.16	
PCB-30	1.8213	-	1.82	
PCB-18	1.1977	-	1.20	
PCB-17	1.2981	-	1.30	
PCB-27	1.7669	-	1.77	
PCB-24	1.7669	-	1.77	
PCB-16	1.4848	-	1.48	
PCB-32	1.4848	-	1.48	
13C-PCB-19	0.4488	-	0.45	
13C-PCB-9	-	-	-	
PCB-34	1.1622	-	1.16	
PCB-23	1.3292	-	1.33	
PCB-29	1.3266	-	1.33	
PCB-26	1.2694	-	1.27	
PCB-25	1.2209	-	1.22	
PCB-31	1.1981	-	1.20	
PCB-28	1.5497	-	1.55	
PCB-20	1.2281	-	1.23	Co-elute PCB 21/33
PCB-21	1.2281	-	1.23	Co-elute PCB 20/33
PCB-33	1.2281	-	1.23	Co-elute PCB 20/21
PCB-22	1.3688	-	1.37	
PCB-36	1.2658	-	1.27	
PCB-39	1.2362	-	1.24	
PCB-38	1.2707	-	1.27	
PCB-35	1.1157	-	1.12	
PCB-37	1.1651	-	1.17	
13C-PCB-37	1.4591	-	1.46	

PCB-54	1.2630	-	1.26	
PCB-50	0.9913	-	0.99	
PCB-53	0.9813	-	0.98	
PCB-51	1.0139	-	1.01	
PCB-45	0.8337	-	0.83	
PCB-46	0.8102	-	0.81	
PCB-52	1.0544	-	1.05	Co-elute PCB 69
PCB-69	1.0544	-	1.05	Co-elute PCB 52
PCB-73	1.2046	-	1.20	
PCB-43	0.9096	-	0.91	Co-elute PCB 49
PCB-49	0.9096	-	0.91	Co-elute PCB 43
PCB-47	0.9184	-	0.92	
PCB-48	1.1888	-	1.19	Co-elute PCB 75
PCB-75	1.1888	-	1.19	Co-elute PCB 48
PCB-65	1.2036	-	1.20	
PCB-62	1.1604	-	1.16	
PCB-44	0.7779	-	0.78	
PCB-42	1.0105	-	1.01	Co-elute PCB 59
PCB-59	1.0105	-	1.01	Co-elute PCB 42
PCB-72	1.1444	-	1.14	Co-elute PCB 41/71/64
PCB-41	1.1444	-	1.14	Co-elute PCB 72/71/64
PCB-71	1.1444	-	1.14	Co-elute PCB 72/41/64
PCB-64	1.1444	-	1.14	Co-elute PCB 72/41/71
PCB-68	1.3257	-	1.33	
PCB-40	0.7075	-	0.71	
PCB-57	1.2146	-	1.21	
PCB-67	1.1870	-	1.19	
PCB-58	1.2204	-	1.22	
PCB-63	1.2202	-	1.22	
PCB-74	1.2154	-	1.22	
PCB-61	1.1017	-	1.10	Co-elute PCB 70
PCB-70	1.1017	-	1.10	Co-elute PCB 61
PCB-76	1.2498	-	1.25	Co-elute PCB 66
PCB-66	1.2498	-	1.25	Co-elute PCB 76
PCB-80	1.3979	-	1.40	
PCB-55	1.2218	-	1.22	
13C-PCB-54	1.2127	-	1.21	
PCB-104	1.1187	-	1.12	
PCB-96	1.0580	-	1.06	
PCB-103	0.8625	-	0.86	
PCB-100	0.8594	-	0.86	
PCB-94	0.7193	-	0.72	
PCB-98	0.7824	-	0.78	Co-elute PCB 102
PCB-102	0.7824	-	0.78	Co-elute PCB 98
PCB-95	0.7315	-	0.73	
PCB-93	0.7245	-	0.72	
PCB-88	0.8405	-	0.84	Co-elute PCB 91
PCB-91	0.8405	-	0.84	Co-elute PCB 88
PCB-121	0.9491	-	0.95	
13C-PCB-104	1.0042	-	1.00	
13C-PCB-28	1.7480	-	1.75	
13C-PCB-52	-	-	-	

PCB-56	1.1390	-	1.14	Co-elute PCB 60
PCB-60	1.1390	-	1.14	Co-elute PCB 56
PCB-79	1.2434	-	1.24	
PCB-78	1.1952	-	1.20	
PCB-81	1.2128	-	1.21	
13C-PCB-81	1.5276	-	1.53	
PCB-77	1.0446	-	1.04	
13C-PCB-77	1.5354	-	1.54	
PCB-155	1.0513	-	1.05	
PCB-150	0.9534	-	0.95	
PCB-152	0.9264	-	0.93	
PCB-145	0.9332	-	0.93	
PCB-136	0.8351	-	0.84	
PCB-148	0.7453	-	0.75	
PCB-154	0.7743	-	0.77	
13C-PCB-155	1.3548	-	1.35	
13C-PCB-111	1.2099	-	1.21	
13C-PCB-101	-	-	-	
PCB-84	0.8479	-	0.85	Co-elute PCB 92
PCB-92	0.8479	-	0.85	Co-elute PCB 84
PCB-89	0.7927	-	0.79	
PCB-90	0.9162	-	0.92	Co-elute PCB 101
PCB-101	0.9162	-	0.92	Co-elute PCB 90
PCB-113	1.0932	-	1.09	
PCB-99	0.9574	-	0.96	
PCB-119	1.1722	-	1.17	
PCB-83	0.9188	-	0.92	Co-elute PCB 112
PCB-112	0.9188	-	0.92	Co-elute PCB 83
PCB-109	1.0886	-	1.09	
PCB-97	0.7493	-	0.75	
PCB-86	0.8305	-	0.83	
PCB-125	1.0003	-	1.00	Co-elute PCB 87/117
PCB-87	1.0003	-	1.00	Co-elute PCB 125/117
PCB-117	1.0003	-	1.00	Co-elute PCB 125/87
PCB-111	1.1245	-	1.12	Co-elute PCB 115
PCB-115	1.1245	-	1.12	Co-elute PCB 111
PCB-85	0.9797	-	0.98	Co-elute PCB 116
PCB-116	0.9797	-	0.98	Co-elute PCB 85
PCB-120	1.2113	-	1.21	
PCB-110	1.1200	-	1.12	
PCB-82	0.6517	-	0.65	
PCB-124	1.1623	-	1.16	
PCB-108	1.1155	-	1.12	Co-elute PCB 107
PCB-107	1.1155	-	1.12	Co-elute PCB 108
PCB-123	0.9652	-	0.97	
13C-PCB-123	1.4805	-	1.48	
PCB-118	1.0563	-	1.06	Co-elute PCB 106
PCB-106	1.0563	-	1.06	Co-elute PCB 118
13C-PCB-118	1.5426	-	1.54	
PCB-114	1.0669	-	1.07	
13C-PCB-114	1.4634	-	1.46	
PCB-122	1.0914	-	1.09	
PCB-105	1.1433	-	1.14	
13C-PCB-105	1.3963	-	1.40	
PCB-127	0.9977	-	1.00	
PCB-126	1.0996	-	1.10	
13C-PCB-126	1.3221	-	1.32	

PCB-151	1.0984	-	1.10	
PCB-135	1.0133	-	1.01	
PCB-144	1.2501	-	1.25	
PCB-147	1.1491	-	1.15	
PCB-139	1.1770	-	1.18	Co-elute PCB 149
PCB-149	1.1770	-	1.18	Co-elute PCB 139
PCB-140	1.1604	-	1.16	
PCB-143	0.9586	-	0.96	Co-elute PCB 134
PCB-134	0.9586	-	0.96	Co-elute PCB 143
PCB-131	0.9385	-	0.94	Co-elute PCB 133
PCB-133	0.9385	-	0.94	Co-elute PCB 131
PCB-142	0.9877	-	0.99	
PCB-165	1.2555	-	1.26	Co-elute PCB 146
PCB-146	1.2555	-	1.26	Co-elute PCB 165
PCB-161	1.1489	-	1.15	Co-elute PCB 132
PCB-132	1.1489	-	1.15	Co-elute PCB 161
PCB-153	1.2717	-	1.27	
PCB-168	1.3546	-	1.35	
PCB-141	1.0190	-	1.02	
PCB-137	0.9380	-	0.94	
PCB-130	0.8902	-	0.89	
PCB-138	1.2470	-	1.25	Co-elute PCB 163/164
PCB-163	1.2470	-	1.25	Co-elute PCB 138/164
PCB-164	1.2470	-	1.25	Co-elute PCB 138/163
PCB-158	1.3319	-	1.33	Co-elute PCB 160
PCB-160	1.3319	-	1.33	Co-elute PCB 158
PCB-129	0.8534	-	0.85	
PCB-166	1.2798	-	1.28	
PCB-159	1.3655	-	1.37	
PCB-128	1.0768	-	1.08	Co-elute PCB 162
PCB-162	1.0768	-	1.08	Co-elute PCB 128
PCB-167	1.1755	-	1.18	
13C-PCB-167	1.1275	-	1.13	
PCB-156	1.2440	-	1.24	
13C-PCB-156	1.0639	-	1.06	
PCB-157	1.1785	-	1.18	
13C-PCB-157	1.0688	-	1.07	
PCB-169	1.1167	-	1.12	
13C-PCB-169	1.0000	-	1.00	
PCB-188	1.0308	-	1.03	
13C-PCB-188	1.2624	-	1.26	

PCB-184	1.1823	-	1.18	
PCB-179	1.1135	-	1.11	
PCB-176	1.0769	-	1.08	
PCB-186	1.0809	-	1.08	
PCB-178	0.7436	-	0.74	
PCB-175	0.7577	-	0.76	
PCB-187	0.8231	-	0.82	Co-elute PCB 182
PCB-182	0.8231	-	0.82	Co-elute PCB 187
PCB-183	0.7952	-	0.80	
PCB-185	0.7067	-	0.71	
PCB-174	0.7304	-	0.73	
PCB-181	0.6583	-	0.66	
PCB-177	0.6446	-	0.64	
PCB-171	0.6868	-	0.69	
PCB-173	0.6173	-	0.62	
PCB-172	0.6351	-	0.64	
PCB-192	0.8394	-	0.84	
PCB-180	0.6467	-	0.65	
PCB-193	0.8954	-	0.90	
PCB-191	0.8329	-	0.83	
PCB-170	0.6000	-	0.60	
PCB-190	0.8450	-	0.85	
PCB-189	1.0616	-	1.06	
13C-PCB-189	0.9597	-	0.96	
PCB-202	1.0262	-	1.03	
PCB-201	1.0891	-	1.09	
PCB-204	1.0549	-	1.05	
PCB-197	1.0930	-	1.09	
PCB-200	1.0422	-	1.04	
PCB-198	0.7023	-	0.70	
PCB-199	0.6973	-	0.70	
PCB-203	0.8289	-	0.83	Co-elute PCB 196
PCB-196	0.8289	-	0.83	Co-elute PCB 203
13C-PCB-202	0.8861	-	0.89	
13C-PCB-178	0.7826	-	0.78	
13C-PCB-138	-	-	-	
PCB-195	0.6717	-	0.67	
PCB-194	0.8354	-	0.84	
PCB-205	1.0555	-	1.06	
13C-PCB-205	1.2985	-	1.30	
PCB-208	1.0853	-	1.09	
13C-PCB-208	1.0484	-	1.05	
PCB-207	1.2164	-	1.22	
PCB-206	1.0819	-	1.08	
13C-PCB-206	0.8908	-	0.89	
PCB-209	1.1401	-	1.14	
13C-PCB-209	1.1045	-	1.10	
13C-PCB-194	-	-	-	

Analyst: [illegible] Date: 7/24/19

Run #1 Filename 24JUL19Z S: 2 Acquired: 24-JUL-19 12:01:29 Cal: DAILYFAL4-7-24-19
Client ID: SS072419Z1 Analyte: FAL ID: Daily 209 190408A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	8.33e+07	3.20 y	14:33	-	1.19	
2	IS/RT	13C-PCB-1	100.00	1.40e+08	3.19 y	14:32	-	0.823	
3	Unk	PCB-2	50.00	8.68e+07	3.25 y	16:45	-	1.22	
4	Unk	PCB-3	50.00	8.78e+07	3.20 y	16:59	-	1.21	
5	IS/RT	13C-PCB-3	100.00	1.45e+08	3.26 y	16:58	-	0.850	
6	Unk	PCB-4	50.00	6.07e+07	1.41 y	18:13	-	1.14	
7	Unk	PCB-10	50.00	8.97e+07	1.63 y	18:16	-	1.32	
8	IS/RT	13C-PCB-4	100.00	1.07e+08	1.62 y	18:11	-	0.626	
9	Unk	PCB-9	50.00	9.42e+07	1.47 y	19:55	-	1.39	
10	Unk	PCB-7	50.00	9.61e+07	1.53 y	19:56	-	1.42	
11	Unk	PCB-6	50.00	9.41e+07	1.55 y	20:31	-	1.39	
12	Unk	PCB-8	50.00	9.56e+07	1.54 y	20:54	-	1.41	
13	Unk	PCB-5	50.00	9.30e+07	1.53 y	20:56	-	1.37	
14	Unk	PCB-14	50.00	8.85e+07	1.55 y	21:57	-	1.31	
15	Unk	PCB-11	50.00	8.31e+07	1.54 y	23:04	-	1.23	
16	Unk	PCB-13	50.00	8.54e+07	1.53 y	23:25	-	1.26	
17	Unk	PCB-12	50.00	8.52e+07	1.54 y	23:28	-	1.26	
18	Unk	PCB-15	50.00	9.54e+07	1.53 y	23:44	-	1.16	
19	IS/RT	13C-PCB-15	100.00	1.64e+08	1.63 y	23:43	-	0.963	
20	Unk	PCB-19	50.00	4.44e+07	1.05 y	22:05	-	1.16	
21	Unk	PCB-30	50.00	6.96e+07	1.07 y	22:57	-	1.82	
22	Unk	PCB-18	50.00	4.58e+07	1.06 y	23:38	-	1.20	
23	Unk	PCB-17	50.00	4.96e+07	1.07 y	23:49	-	1.30	
24	Unk	PCB-27	50.00	6.75e+07	1.12 y	24:20	-	1.77	
25	Unk	PCB-24	50.00	6.75e+07	1.12 y	24:20	-	1.77	
26	Unk	PCB-16	50.00	5.68e+07	1.12 y	24:49	-	1.48	
27	Unk	PCB-32	50.00	5.68e+07	1.12 y	24:49	-	1.48	
28	IS/RT	13C-PCB-19	100.00	7.65e+07	1.06 y	22:04	-	0.449	
29	RS	13C-PCB-9	100.00	1.70e+08	1.59 y	19:52	1.70e+06	-	
30	Unk	PCB-34	50.00	6.78e+07	1.02 y	25:35	-	1.16	
31	Unk	PCB-23	50.00	7.76e+07	1.03 y	25:40	-	1.33	
32	Unk	PCB-29	50.00	7.74e+07	1.03 y	25:56	-	1.33	
33	Unk	PCB-26	50.00	7.41e+07	1.02 y	26:07	-	1.27	
34	Unk	PCB-25	50.00	7.12e+07	1.01 y	26:16	-	1.22	
35	Unk	PCB-31	50.00	6.99e+07	1.00 y	26:36	-	1.20	
36	Unk	PCB-28	50.00	9.04e+07	0.99 y	26:42	-	1.55	
37	Unk	PCB-20	150.00	2.15e+08	1.01 y	27:16	-	1.23	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	2.15e+08	1.01 y	27:16	-	1.23	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	2.15e+08	1.01 y	27:16	-	1.23	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	7.99e+07	1.00 y	27:42	-	1.37	
41	Unk	PCB-36	50.00	7.39e+07	1.02 y	28:17	-	1.27	
42	Unk	PCB-39	50.00	7.21e+07	1.00 y	28:44	-	1.24	
43	Unk	PCB-38	50.00	7.41e+07	1.02 y	29:28	-	1.27	
44	Unk	PCB-35	50.00	6.51e+07	1.03 y	29:57	-	1.12	
45	Unk	PCB-37	50.00	6.80e+07	1.00 y	30:22	-	1.17	
46	IS	13C-PCB-37	100.00	1.17e+08	1.08 y	30:21	-	1.46	

47	Unk	PCB-54	100.00	1.22e+08	0.80	y	25:38	-	1.26	
48	Unk	PCB-50	100.00	9.61e+07	0.80	y	26:44	-	0.991	
49	Unk	PCB-53	100.00	9.52e+07	0.79	y	27:20	-	0.981	
50	Unk	PCB-51	100.00	9.83e+07	0.79	y	27:39	-	1.01	
51	Unk	PCB-45	100.00	8.09e+07	0.79	y	28:04	-	0.834	
52	Unk	PCB-46	100.00	7.86e+07	0.80	y	28:32	-	0.810	
53	Unk	PCB-52	200.00	2.05e+08	0.79	y	28:59	-	1.05	Co-elute PCB 69
54	Unk	PCB-69	200.00	2.05e+08	0.79	y	28:59	-	1.05	Co-elute PCB 52
55	Unk	PCB-73	100.00	1.17e+08	0.80	y	29:05	-	1.20	
56	Unk	PCB-43	200.00	1.76e+08	0.80	y	29:15	-	0.910	Co-elute PCB 49
57	Unk	PCB-49	200.00	1.76e+08	0.80	y	29:15	-	0.910	Co-elute PCB 43
58	Unk	PCB-47	100.00	8.91e+07	0.78	y	29:27	-	0.918	
59	Unk	PCB-48	200.00	2.31e+08	0.80	y	29:33	-	1.19	Co-elute PCB 75
60	Unk	PCB-75	200.00	2.31e+08	0.80	y	29:33	-	1.19	Co-elute PCB 48
61	Unk	PCB-65	100.00	1.17e+08	0.79	y	29:49	-	1.20	
62	Unk	PCB-62	100.00	1.13e+08	0.81	y	29:54	-	1.16	
63	Unk	PCB-44	100.00	7.55e+07	0.80	y	30:12	-	0.778	
64	Unk	PCB-42	200.00	1.96e+08	0.80	y	30:25	-	1.01	Co-elute PCB 59
65	Unk	PCB-59	200.00	1.96e+08	0.80	y	30:25	-	1.01	Co-elute PCB 42
66	Unk	PCB-72	400.00	4.44e+08	0.80	y	30:58	-	1.14	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	4.44e+08	0.80	y	30:58	-	1.14	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	4.44e+08	0.80	y	30:58	-	1.14	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	4.44e+08	0.80	y	30:58	-	1.14	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	1.29e+08	0.79	y	31:13	-	1.33	
71	Unk	PCB-40	100.00	6.86e+07	0.80	y	31:25	-	0.707	
72	Unk	PCB-57	100.00	1.18e+08	0.79	y	31:46	-	1.21	
73	Unk	PCB-67	100.00	1.15e+08	0.79	y	32:03	-	1.19	
74	Unk	PCB-58	100.00	1.18e+08	0.81	y	32:10	-	1.22	
75	Unk	PCB-63	100.00	1.18e+08	0.79	y	32:19	-	1.22	
76	Unk	PCB-74	100.00	1.18e+08	0.80	y	32:35	-	1.22	
77	Unk	PCB-61	200.00	2.14e+08	0.80	y	32:46	-	1.10	Co-elute PCB 70
78	Unk	PCB-70	200.00	2.14e+08	0.80	y	32:46	-	1.10	Co-elute PCB 61
79	Unk	PCB-76	200.00	2.42e+08	0.79	y	32:58	-	1.25	Co-elute PCB 66
80	Unk	PCB-66	200.00	2.42e+08	0.79	y	32:58	-	1.25	Co-elute PCB 76
81	Unk	PCB-80	100.00	1.36e+08	0.80	y	33:10	-	1.40	
82	Unk	PCB-55	100.00	1.19e+08	0.79	y	33:29	-	1.22	
83	IS/RT	13C-PCB-54	100.00	9.70e+07	0.82	y	25:37	-	1.21	
84	Unk	PCB-104	100.00	8.98e+07	1.57	y	30:03	-	1.12	
85	Unk	PCB-96	100.00	8.50e+07	1.59	y	31:15	-	1.06	
86	Unk	PCB-103	100.00	6.93e+07	1.58	y	31:46	-	0.863	
87	Unk	PCB-100	100.00	6.90e+07	1.60	y	32:06	-	0.859	
88	Unk	PCB-94	100.00	5.78e+07	1.59	y	32:32	-	0.719	
89	Unk	PCB-98	200.00	1.26e+08	1.52	y	32:59	-	0.782	Co-elute PCB 102
90	Unk	PCB-102	200.00	1.26e+08	1.52	y	32:59	-	0.782	Co-elute PCB 98
91	Unk	PCB-95	100.00	5.87e+07	1.73	y	33:03	-	0.731	
92	Unk	PCB-93	100.00	5.82e+07	1.58	y	33:08	-	0.724	
93	Unk	PCB-88	200.00	1.35e+08	1.55	y	33:26	-	0.841	Co-elute PCB 91
94	Unk	PCB-91	200.00	1.35e+08	1.55	y	33:26	-	0.841	Co-elute PCB 88
95	Unk	PCB-121	100.00	7.62e+07	1.67	y	33:29	-	0.949	
96	IS	13C-PCB-104	100.00	8.03e+07	1.60	y	30:02	-	1.00	
97	C/Up	13C-PCB-28	100.00	1.40e+08	1.04	y	26:41	-	1.75	
98	RS	13C-PCB-52	100.00	8.00e+07	0.81	y	28:56	8.00e+05	-	
99	Unk	PCB-56	200.00	2.23e+08	0.77	y	33:57	-	1.14	Co-elute PCB 60
100	Unk	PCB-60	200.00	2.23e+08	0.77	y	33:57	-	1.14	Co-elute PCB 56

101	Unk	PCB-79	100.00	1.22e+08	0.78 y	34:58	-	1.24	
102	Unk	PCB-78	100.00	1.17e+08	0.78 y	35:38	-	1.20	
103	Unk	PCB-81	100.00	1.19e+08	0.77 y	36:08	-	1.21	
104	IS	13C-PCB-81	100.00	9.77e+07	0.80 y	36:07	-	1.53	
105	Unk	PCB-77	100.00	1.03e+08	0.79 y	36:41	-	1.04	
106	IS/RT	13C-PCB-77	100.00	9.82e+07	0.80 y	36:40	-	1.54	
107	Unk	PCB-155	100.00	9.11e+07	1.27 y	34:12	-	1.05	
108	Unk	PCB-150	100.00	8.26e+07	1.25 y	35:24	-	0.953	
109	Unk	PCB-152	100.00	8.03e+07	1.26 y	35:52	-	0.926	
110	Unk	PCB-145	100.00	8.09e+07	1.25 y	36:17	-	0.933	
111	Unk	PCB-136	100.00	7.24e+07	1.23 y	36:35	-	0.835	
112	Unk	PCB-148	100.00	6.46e+07	1.27 y	36:40	-	0.745	
113	Unk	PCB-154	100.00	6.71e+07	1.27 y	37:08	-	0.774	
114	IS	13C-PCB-155	100.00	8.67e+07	1.27 y	34:11	-	1.35	
115	C/Up	13C-PCB-111	100.00	7.74e+07	1.62 y	36:16	-	1.21	
116	RS	13C-PCB-101	100.00	6.40e+07	1.63 y	34:37	6.40e+05	-	
117	Unk	PCB-84	200.00	1.36e+08	1.60 y	34:17	-	0.848	Co-elute PCB 92
118	Unk	PCB-92	200.00	1.36e+08	1.60 y	34:17	-	0.848	Co-elute PCB 84
119	Unk	PCB-89	100.00	6.36e+07	1.59 y	34:29	-	0.793	
120	Unk	PCB-90	200.00	1.47e+08	1.61 y	34:39	-	0.916	Co-elute PCB 101
121	Unk	PCB-101	200.00	1.47e+08	1.61 y	34:39	-	0.916	Co-elute PCB 90
122	Unk	PCB-113	100.00	8.77e+07	1.58 y	34:53	-	1.09	
123	Unk	PCB-99	100.00	7.68e+07	1.63 y	34:58	-	0.957	
124	Unk	PCB-119	100.00	9.41e+07	1.58 y	35:24	-	1.17	
125	Unk	PCB-83	200.00	1.47e+08	1.61 y	35:33	-	0.919	Co-elute PCB 112
126	Unk	PCB-112	200.00	1.47e+08	1.61 y	35:33	-	0.919	Co-elute PCB 83
127	Unk	PCB-109	100.00	8.74e+07	1.61 y	35:42	-	1.09	
128	Unk	PCB-97	100.00	6.01e+07	1.61 y	35:53	-	0.749	
129	Unk	PCB-86	100.00	6.67e+07	1.56 y	36:02	-	0.830	
130	Unk	PCB-125	300.00	2.41e+08	1.62 y	36:10	-	1.00	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	2.41e+08	1.62 y	36:10	-	1.00	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	2.41e+08	1.62 y	36:10	-	1.00	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	1.81e+08	1.60 y	36:17	-	1.12	Co-elute PCB 115
134	Unk	PCB-115	200.00	1.81e+08	1.60 y	36:17	-	1.12	Co-elute PCB 111
135	Unk	PCB-85	200.00	1.57e+08	1.62 y	36:25	-	0.980	Co-elute PCB 116
136	Unk	PCB-116	200.00	1.57e+08	1.62 y	36:25	-	0.980	Co-elute PCB 85
137	Unk	PCB-120	100.00	9.72e+07	1.60 y	36:37	-	1.21	
138	Unk	PCB-110	100.00	8.99e+07	1.61 y	36:46	-	1.12	
139	Unk	PCB-82	100.00	5.23e+07	1.59 y	37:23	-	0.652	
140	Unk	PCB-124	100.00	9.33e+07	1.70 y	38:01	-	1.16	
141	Unk	PCB-108	200.00	1.79e+08	1.41 y	38:09	-	1.12	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.79e+08	1.41 y	38:09	-	1.12	Co-elute PCB 108
143	Unk	PCB-123	100.00	7.80e+07	1.53 y	38:19	-	0.965	
144	IS	13C-PCB-123	100.00	8.08e+07	1.59 y	38:19	-	1.48	
145	Unk	PCB-118	200.00	1.78e+08	1.54 y	38:30	-	1.06	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.78e+08	1.54 y	38:30	-	1.06	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	8.42e+07	1.59 y	38:29	-	1.54	
148	Unk	PCB-114	100.00	8.52e+07	1.52 y	39:06	-	1.07	
149	IS	13C-PCB-114	100.00	7.99e+07	1.60 y	39:05	-	1.46	
150	Unk	PCB-122	100.00	8.76e+07	1.54 y	39:15	-	1.09	
151	Unk	PCB-105	100.00	8.71e+07	1.51 y	39:56	-	1.14	
152	IS	13C-PCB-105	100.00	7.62e+07	1.58 y	39:54	-	1.40	
153	Unk	PCB-127	100.00	8.01e+07	1.54 y	40:14	-	0.998	
154	Unk	PCB-126	100.00	7.93e+07	1.53 y	42:03	-	1.10	
155	IS	13C-PCB-126	100.00	7.21e+07	1.59 y	42:01	-	1.32	

156	Unk	PCB-151	100.00	6.38e+07	1.28 y	37:46	-	1.10	
157	Unk	PCB-135	100.00	5.89e+07	1.30 y	37:57	-	1.01	
158	Unk	PCB-144	100.00	7.27e+07	1.27 y	38:04	-	1.25	
159	Unk	PCB-147	100.00	6.68e+07	1.26 y	38:12	-	1.15	
160	Unk	PCB-139	200.00	1.37e+08	1.26 y	38:27	-	1.18	Co-elute PCB 149
161	Unk	PCB-149	200.00	1.37e+08	1.26 y	38:27	-	1.18	Co-elute PCB 139
162	Unk	PCB-140	100.00	6.74e+07	1.28 y	38:37	-	1.16	
163	Unk	PCB-143	200.00	1.11e+08	1.26 y	39:01	-	0.959	Co-elute PCB 134
164	Unk	PCB-134	200.00	1.11e+08	1.26 y	39:01	-	0.959	Co-elute PCB 143
165	Unk	PCB-131	200.00	1.09e+08	1.28 y	39:18	-	0.939	Co-elute PCB 133
166	Unk	PCB-133	200.00	1.09e+08	1.28 y	39:18	-	0.939	Co-elute PCB 131
167	Unk	PCB-142	100.00	5.74e+07	1.27 y	39:28	-	0.988	
168	Unk	PCB-165	200.00	1.46e+08	1.25 y	39:39	-	1.26	Co-elute PCB 146
169	Unk	PCB-146	200.00	1.46e+08	1.25 y	39:39	-	1.26	Co-elute PCB 165
170	Unk	PCB-161	200.00	1.34e+08	1.27 y	39:52	-	1.15	Co-elute PCB 132
171	Unk	PCB-132	200.00	1.34e+08	1.27 y	39:52	-	1.15	Co-elute PCB 161
172	Unk	PCB-153	100.00	7.39e+07	1.30 y	40:02	-	1.27	
173	Unk	PCB-168	100.00	7.87e+07	1.27 y	40:16	-	1.35	
174	Unk	PCB-141	100.00	5.92e+07	1.27 y	40:45	-	1.02	
175	Unk	PCB-137	100.00	5.45e+07	1.24 y	41:07	-	0.938	
176	Unk	PCB-130	100.00	5.17e+07	1.28 y	41:13	-	0.890	
177	Unk	PCB-138	300.00	2.17e+08	1.25 y	41:35	-	1.25	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	2.17e+08	1.25 y	41:35	-	1.25	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	2.17e+08	1.25 y	41:35	-	1.25	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	1.55e+08	1.26 y	41:48	-	1.33	Co-elute PCB 160
181	Unk	PCB-160	200.00	1.55e+08	1.26 y	41:48	-	1.33	Co-elute PCB 158
182	Unk	PCB-129	100.00	4.96e+07	1.28 y	42:01	-	0.853	
183	Unk	PCB-166	100.00	7.44e+07	1.26 y	42:29	-	1.28	
184	Unk	PCB-159	100.00	7.94e+07	1.29 y	42:45	-	1.37	
185	Unk	PCB-128	200.00	1.25e+08	1.26 y	43:02	-	1.08	Co-elute PCB 162
186	Unk	PCB-162	200.00	1.25e+08	1.26 y	43:02	-	1.08	Co-elute PCB 128
187	Unk	PCB-167	100.00	7.23e+07	1.24 y	43:25	-	1.18	
188	IS	13C-PCB-167	100.00	6.15e+07	1.30 y	43:23	-	1.13	
189	Unk	PCB-156	100.00	7.22e+07	1.27 y	44:39	-	1.24	
190	IS	13C-PCB-156	100.00	5.81e+07	1.29 y	44:37	-	1.06	
191	Unk	PCB-157	100.00	6.87e+07	1.28 y	44:54	-	1.18	
192	IS	13C-PCB-157	100.00	5.83e+07	1.30 y	44:52	-	1.07	
193	Unk	PCB-169	100.00	6.09e+07	1.27 y	46:46	-	1.12	
194	IS	13C-PCB-169	100.00	5.46e+07	1.29 y	46:44	-	1.00	
195	Unk	PCB-188	100.00	7.10e+07	1.03 y	39:43	-	1.03	
196	IS	13C-PCB-188	100.00	6.89e+07	1.06 y	39:41	-	1.26	

197	Unk	PCB-184	100.00	7.17e+07	1.06 y	40:07	-	1.18	
198	Unk	PCB-179	100.00	6.75e+07	1.06 y	40:52	-	1.11	
199	Unk	PCB-176	100.00	6.53e+07	1.05 y	41:18	-	1.08	
200	Unk	PCB-186	100.00	6.55e+07	1.05 y	41:53	-	1.08	
201	Unk	PCB-178	100.00	4.51e+07	1.05 y	42:21	-	0.744	
202	Unk	PCB-175	100.00	4.59e+07	1.05 y	42:40	-	0.758	
203	Unk	PCB-187	200.00	9.98e+07	1.06 y	42:50	-	0.823	Co-elute PCB 182
204	Unk	PCB-182	200.00	9.98e+07	1.06 y	42:50	-	0.823	Co-elute PCB 187
205	Unk	PCB-183	100.00	4.82e+07	1.05 y	43:07	-	0.795	
206	Unk	PCB-185	100.00	4.28e+07	1.06 y	43:45	-	0.707	
207	Unk	PCB-174	100.00	4.43e+07	1.05 y	44:06	-	0.730	
208	Unk	PCB-181	100.00	3.99e+07	1.06 y	44:13	-	0.658	
209	Unk	PCB-177	100.00	3.91e+07	1.06 y	44:21	-	0.645	
210	Unk	PCB-171	100.00	4.16e+07	1.07 y	44:37	-	0.687	
211	Unk	PCB-173	100.00	3.74e+07	1.05 y	45:02	-	0.617	
212	Unk	PCB-172	100.00	3.85e+07	1.05 y	45:25	-	0.635	
213	Unk	PCB-192	100.00	5.09e+07	1.06 y	45:36	-	0.839	
214	Unk	PCB-180	100.00	3.92e+07	1.04 y	45:46	-	0.647	
215	Unk	PCB-193	100.00	5.43e+07	1.04 y	45:56	-	0.895	
216	Unk	PCB-191	100.00	5.05e+07	1.05 y	46:09	-	0.833	
217	Unk	PCB-170	100.00	3.64e+07	1.05 y	47:04	-	0.600	
218	Unk	PCB-190	100.00	5.12e+07	1.05 y	47:14	-	0.845	
219	Unk	PCB-189	100.00	5.56e+07	1.05 y	48:24	-	1.06	
220	IS	13C-PCB-189	100.00	5.24e+07	1.09 y	48:24	-	0.960	
221	Unk	PCB-202	150.00	7.44e+07	0.90 y	44:49	-	1.03	
222	Unk	PCB-201	150.00	7.90e+07	0.90 y	45:15	-	1.09	
223	Unk	PCB-204	150.00	7.65e+07	0.92 y	45:23	-	1.05	
224	Unk	PCB-197	150.00	7.93e+07	0.89 y	45:40	-	1.09	
225	Unk	PCB-200	150.00	7.56e+07	0.91 y	46:24	-	1.04	
226	Unk	PCB-198	150.00	5.09e+07	0.89 y	47:35	-	0.702	
227	Unk	PCB-199	150.00	5.06e+07	0.90 y	47:42	-	0.697	
228	Unk	PCB-203	300.00	1.20e+08	0.88 y	47:55	-	0.829	Co-elute PCB 196
229	Unk	PCB-196	300.00	1.20e+08	0.88 y	47:55	-	0.829	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	4.84e+07	0.92 y	44:47	-	0.886	
231	C/Up	13C-PCB-178	100.00	4.27e+07	1.08 y	42:19	-	0.783	
232	RS	13C-PCB-138	100.00	5.46e+07	1.29 y	46:44	5.46e+05	-	
233	Unk	PCB-195	150.00	6.86e+07	0.88 y	49:02	-	0.672	
234	Unk	PCB-194	150.00	8.53e+07	0.88 y	49:50	-	0.835	
235	Unk	PCB-205	150.00	1.08e+08	0.88 y	50:05	-	1.06	
236	IS	13C-PCB-205	100.00	6.80e+07	0.91 y	50:04	-	1.30	
237	Unk	PCB-208	150.00	8.94e+07	1.39 y	49:10	-	1.09	
238	IS	13C-PCB-208	100.00	5.49e+07	0.82 y	49:09	-	1.05	
239	Unk	PCB-207	150.00	9.27e+07	1.34 y	49:27	-	1.22	
240	Unk	PCB-206	150.00	7.58e+07	1.36 y	51:17	-	1.08	
241	IS	13C-PCB-206	100.00	4.67e+07	0.80 y	51:16	-	0.891	
242	Unk	PCB-209	150.00	9.90e+07	1.20 y	52:29	-	1.14	
243	IS	13C-PCB-209	100.00	5.79e+07	1.22 y	52:28	-	1.10	
244	RS	13C-PCB-194	100.00	5.24e+07	0.91 y	49:48	5.24e+05	-	

Analyst: _____ Date: 7/21/19

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/24/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 24JUL19Z Sam:1 Analysis Date: 24-JUL-19 11:03:04

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.18	2.66-3.60	y	49.7	37.5 - 62.5
PCB-3	M/M+2	3.26	2.66-3.60	y	50.1	37.5 - 62.5
PCB-4	M/M+2	1.53	1.33-1.79	y	46.7	37.5 - 62.5
PCB-15	M/M+2	1.53	1.33-1.79	y	44.9	37.5 - 62.5
PCB-19	M/M+2	1.08	0.88-1.20	y	50.9	37.5 - 62.5
PCB-37	M/M+2	1.01	0.88-1.20	y	46.4	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	51.0	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	50.3	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	45.4	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	50.0	37.5 - 62.5
PCB-105	M+2/M+4	1.52	1.32-1.78	y	43.5	37.5 - 62.5
PCB-114	M+2/M+4	1.55	1.32-1.78	y	48.0	37.5 - 62.5
PCB-118	M+2/M+4	1.55	1.32-1.78	y	49.0	37.5 - 62.5
PCB-123	M+2/M+4	1.50	1.32-1.78	y	53.5	37.5 - 62.5
PCB-126	M+2/M+4	1.54	1.32-1.78	y	45.4	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	50.0	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	45.8	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	46.0	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	46.6	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	47.5	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	51.8	37.5 - 62.5
PCB-189	M+2/M+4	1.03	0.89-1.21	y	49.1	37.5 - 62.5
PCB-202	M+2/M+4	0.90	0.76-1.02	y	48.9	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	1.37	1.13-1.53	y	48.9	37.5 - 62.5
PCB-208	M+4/M+6	1.40	1.13-1.53	y	50.0	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	49.4	37.5 - 62.5

Analyst: [signature] Date: 7/24/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/24/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 24JUL19Z Sam:1 Analysis Date: 24-JUL-19 11:03:04

	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	3.21	2.66-3.60	y	106	50.0 - 145
13C-PCB-3	M/M+2	3.30	2.66-3.60	y	105	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	102	50.0 - 145
13C-PCB-15	M/M+2	1.59	1.33-1.79	y	104	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	101	50.0 - 145
13C-PCB-37	M/M+2	1.07	0.88-1.20	y	112	50.0 - 145
13C-PCB-54	M/M+2	0.83	0.65-0.89	y	102	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	102	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	101	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	100	50.0 - 145
13C-PCB-105	M+2/M+4	1.58	1.32-1.78	y	106	50.0 - 145
13C-PCB-114	M+2/M+4	1.58	1.32-1.78	y	104	50.0 - 145
13C-PCB-118	M+2/M+4	1.57	1.32-1.78	y	106	50.0 - 145
13C-PCB-123	M+2/M+4	1.57	1.32-1.78	y	99.4	50.0 - 145
13C-PCB-126	M+2/M+4	1.57	1.32-1.78	y	99.3	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	94.3	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	106	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	105	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	106	50.0 - 145
13C-PCB-169	M+2/M+4	1.30	1.05-1.43	y	100	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	100	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	82.6	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	112	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	107	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	116	50.0 - 145
13C-PCB-208	M+2/M+4	0.82	0.65-0.89	y	118	50.0 - 145
13C-PCB-209	M+4/M+6	1.22	0.99-1.33	y	118	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	107	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	106	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	102	75.0 - 125

Analyst: [signature] Date: 7/24/19

FAL ID: ST072419Z1 Filename: 24JUL19Z Sam:1 Acquired: 24-JUL-19 11:03:04 ICal: DAILY209FAL4-7-24-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.86e+07	3.18 y	14:34	1.19	49.7		2.50	-	-	*	
13C-PCB-1	1.16e+08	3.21 y	14:33	0.82	106		2.50				106
PCB-3	7.25e+07	3.26 y	16:59	1.21	50.1		2.50	-	-	*	
13C-PCB-3	1.19e+08	3.30 y	16:59	0.85	105		2.50				105
PCB-4	4.52e+07	1.53 y	18:14	1.14	46.7		2.50	-	-	*	
13C-PCB-4	8.51e+07	1.60 y	18:12	0.63	102		2.50				102
PCB-15	6.96e+07	1.53 y	23:45	1.16	44.9		2.50	-	-	*	
13C-PCB-15	1.33e+08	1.59 y	23:44	0.96	104		2.50				104
PCB-19	3.55e+07	1.08 y	22:07	1.16	50.9		2.50	-	-	*	
13C-PCB-19	6.01e+07	1.09 y	22:06	0.45	101		2.50				101
13C-PCB-9	1.33e+08	1.61 y	19:54	-	78.1		2.50				
PCB-37	5.41e+07	1.01 y	30:23	1.17	46.4		2.50	-	-	*	
13C-PCB-37	1.00e+08	1.07 y	30:22	1.46	112		2.50				112
PCB-54	4.89e+07	0.80 y	25:39	1.26	51.0		2.50	-	-	*	
13C-PCB-54	7.60e+07	0.83 y	25:38	1.21	102		2.50				102
PCB-104	3.45e+07	1.59 y	30:04	1.12	50.0		2.50	-	-	*	
13C-PCB-104	6.17e+07	1.60 y	30:03	1.00	100		2.50				100
13C-PCB-28	1.15e+08	1.05 y	26:42	1.75	107		2.50				107
13C-PCB-52	6.14e+07	0.81 y	28:57	-	76.7		2.50				
PCB-81	4.32e+07	0.78 y	36:08	1.21	45.4		2.50	-	-	*	
13C-PCB-81	7.85e+07	0.81 y	36:08	1.53	101		2.50				101
PCB-77	4.19e+07	0.79 y	36:42	1.04	50.3		2.50	-	-	*	
13C-PCB-77	7.98e+07	0.80 y	36:41	1.54	102		2.50				102
PCB-155	3.42e+07	1.26 y	34:13	1.05	50.0		2.50	-	-	*	
13C-PCB-155	6.52e+07	1.29 y	34:12	1.35	94.3		2.50				94.3
13C-PCB-111	6.52e+07	1.60 y	36:17	1.21	106		2.50				106
13C-PCB-101	5.10e+07	1.61 y	34:38	-	79.7		2.50				
PCB-123	3.28e+07	1.50 y	38:20	0.97	53.5		2.50	-	-	*	
13C-PCB-123	6.36e+07	1.57 y	38:18	1.48	99.4		2.50				99.4
PCB-118	3.67e+07	1.55 y	38:30	1.06	49.0		2.50	-	-	*	
13C-PCB-118	7.08e+07	1.57 y	38:30	1.54	106		2.50				106
PCB-114	3.38e+07	1.55 y	39:08	1.07	48.0		2.50	-	-	*	
13C-PCB-114	6.59e+07	1.58 y	39:06	1.46	104		2.50				104
PCB-105	3.19e+07	1.52 y	39:57	1.14	43.5		2.50	-	-	*	
13C-PCB-105	6.40e+07	1.58 y	39:55	1.40	106		2.50				106
PCB-126	2.83e+07	1.54 y	42:04	1.10	45.4		2.50	-	-	*	
13C-PCB-126	5.67e+07	1.57 y	42:02	1.32	99.3		2.50				99.3
PCB-167	2.82e+07	1.25 y	43:26	1.18	46.6		2.50	-	-	*	
13C-PCB-167	5.15e+07	1.28 y	43:25	1.13	106		2.50				106
PCB-156	2.77e+07	1.26 y	44:39	1.24	45.8		2.50	-	-	*	
13C-PCB-156	4.85e+07	1.29 y	44:37	1.06	106		2.50				106
PCB-157	2.63e+07	1.27 y	44:55	1.18	46.0		2.50	-	-	*	
13C-PCB-157	4.85e+07	1.30 y	44:53	1.07	105		2.50				105
PCB-169	2.29e+07	1.27 y	46:45	1.12	47.5		2.50	-	-	*	
13C-PCB-169	4.32e+07	1.30 y	46:45	1.00	100		2.50				100
PCB-188	2.92e+07	1.06 y	39:42	1.03	51.8		2.50	-	-	*	
13C-PCB-188	5.47e+07	1.07 y	39:42	1.26	100		2.50				100
PCB-189	1.79e+07	1.03 y	48:26	1.06	49.1		2.50	-	-	*	
13C-PCB-189	3.43e+07	1.08 y	48:26	0.96	82.6		2.50				82.6
PCB-202	2.15e+07	0.90 y	44:50	1.03	48.9		2.50	-	-	*	
13C-PCB-202	4.29e+07	0.90 y	44:48	0.89	112		2.50				112
13C-PCB-178	3.43e+07	1.06 y	42:20	0.78	102		2.50				102
13C-PCB-138	4.32e+07	1.30 y	46:45	-	79.2		2.50				

FAL ID: ST072419Z1 Filename: 24JUL19Z Sam:1 Acquired: 24-JUL-19 11:03:04 ICal: DAILY209FAL4-7-24-19 2 of 2
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	2.58e+07	0.89	y	50:06	1.06	50.8	2.50	-	-	*	
13C-PCB-205	4.81e+07	0.90	y	50:05	1.30	107	2.50				107
PCB-208	2.32e+07	1.40	y	49:10	1.09	50.0	2.50	-	-	*	
13C-PCB-208	4.28e+07	0.82	y	49:10	1.05	118	2.50				118
PCB-206	1.88e+07	1.37	y	51:18	1.08	48.9	2.50	-	-	*	
13C-PCB-206	3.56e+07	0.81	y	51:18	0.89	116	2.50				116
PCB-209	2.53e+07	1.20	y	52:30	1.14	49.4	2.50	-	-	*	
13C-PCB-209	4.50e+07	1.22	y	52:30	1.10	118	2.50				118
13C-PCB-194	3.45e+07	0.91	y	49:49	-	65.8	2.50				

Analyst: _____ Date: 7/31/19

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/24/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 24JUL19Z Sam:16 Analysis Date: 25-JUL-19 01:40:20

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.18	2.66-3.60	y	46.5	37.5 - 62.5
PCB-3	M/M+2	3.22	2.66-3.60	y	46.9	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	44.0	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	44.5	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	49.3	37.5 - 62.5
PCB-37	M/M+2	1.06	0.88-1.20	y	46.0	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	48.5	37.5 - 62.5
PCB-77	M/M+2	0.77	0.65-0.89	y	51.5	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	45.8	37.5 - 62.5
PCB-104	M+2/M+4	1.56	1.32-1.78	y	49.4	37.5 - 62.5
PCB-105	M+2/M+4	1.54	1.32-1.78	y	45.1	37.5 - 62.5
PCB-114	M+2/M+4	1.54	1.32-1.78	y	49.2	37.5 - 62.5
PCB-118	M+2/M+4	1.54	1.32-1.78	y	50.4	37.5 - 62.5
PCB-123	M+2/M+4	1.58	1.32-1.78	y	55.1	37.5 - 62.5
PCB-126	M+2/M+4	1.55	1.32-1.78	y	47.6	37.5 - 62.5
PCB-155	M+2/M+4	1.29	1.05-1.43	y	50.7	37.5 - 62.5
PCB-156	M+2/M+4	1.23	1.05-1.43	y	43.9	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	45.6	37.5 - 62.5
PCB-167	M+2/M+4	1.24	1.05-1.43	y	45.5	37.5 - 62.5
PCB-169	M+2/M+4	1.25	1.05-1.43	y	47.5	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	51.5	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	50.4	37.5 - 62.5
PCB-202	M+2/M+4	0.91	0.76-1.02	y	48.9	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	50.7	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	48.5	37.5 - 62.5
PCB-208	M+4/M+6	1.39	1.13-1.53	y	48.3	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	51.2	37.5 - 62.5

Analyst: [signature] Date: 7/25/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/24/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 24JUL19Z Sam:16 Analysis Date: 25-JUL-19 01:40:20

	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	133	50.0 - 145
13C-PCB-3	M/M+2	3.21	2.66-3.60	y	116	50.0 - 145
13C-PCB-4	M/M+2	1.56	1.33-1.79	y	118	50.0 - 145
13C-PCB-15	M/M+2	1.63	1.33-1.79	y	86.9	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	123	50.0 - 145
13C-PCB-37	M/M+2	1.10	0.88-1.20	y	89.0	50.0 - 145
13C-PCB-54	M/M+2	0.83	0.65-0.89	y	115	50.0 - 145
13C-PCB-77	M/M+2	0.82	0.65-0.89	y	91.8	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	90.8	50.0 - 145
13C-PCB-104	M+2/M+4	1.55	1.32-1.78	y	112	50.0 - 145
13C-PCB-105	M+2/M+4	1.57	1.32-1.78	y	81.4	50.0 - 145
13C-PCB-114	M+2/M+4	1.57	1.32-1.78	y	81.4	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	78.9	50.0 - 145
13C-PCB-123	M+2/M+4	1.55	1.32-1.78	y	75.1	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	79.7	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	104	50.0 - 145
13C-PCB-156	M+2/M+4	1.30	1.05-1.43	y	94.7	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	96.4	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	93.6	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	100	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	82.7	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	94.9	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	107	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	105	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	115	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	1.19	0.99-1.33	y	117	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	96.7	65.0 - 135
13C-PCB-111	M+2/M+4	1.62	1.32-1.78	y	105	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	84.3	75.0 - 125

Analyst: _____ Date: 7/25/19

FAL ID: ST072419Z2 Filename: 24JUL19Z Sam:16 Acquired: 25-JUL-19 01:40:20 ICal: DAILYFAL4-7-24-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 1.000

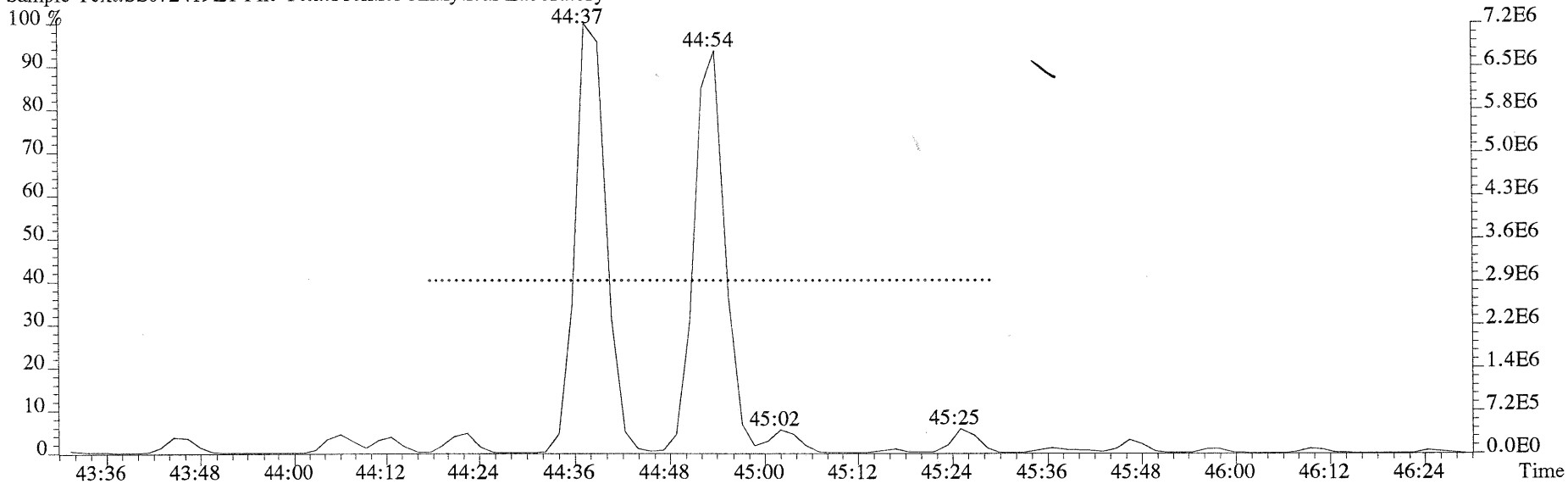
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.08e+07	3.18 y	14:33	1.19	46.5		2.50	-	-	*	
13C-PCB-1	1.10e+08	3.25 y	14:32	0.82	133		2.50				133
PCB-3	5.62e+07	3.22 y	16:59	1.21	46.9		2.50	-	-	*	
13C-PCB-3	9.87e+07	3.21 y	16:58	0.85	116		2.50				116
PCB-4	3.73e+07	1.57 y	18:14	1.14	44.0		2.50	-	-	*	
13C-PCB-4	7.45e+07	1.56 y	18:12	0.63	118		2.50				118
PCB-15	4.36e+07	1.57 y	23:45	1.16	44.5		2.50	-	-	*	
13C-PCB-15	8.41e+07	1.63 y	23:44	0.96	86.9		2.50				86.9
PCB-19	3.18e+07	1.06 y	22:07	1.16	49.3		2.50	-	-	*	
13C-PCB-19	5.55e+07	1.09 y	22:05	0.45	123		2.50				123
13C-PCB-9	1.01e+08	1.59 y	19:52	-	59.0		2.50				
PCB-37	3.18e+07	1.06 y	30:24	1.17	46.0		2.50	-	-	*	
13C-PCB-37	5.93e+07	1.10 y	30:23	1.46	89.0		2.50				89.0
PCB-54	3.89e+07	0.80 y	25:38	1.26	48.5		2.50	-	-	*	
13C-PCB-54	6.36e+07	0.83 y	25:37	1.21	115		2.50				115
PCB-104	2.83e+07	1.56 y	30:04	1.12	49.4		2.50	-	-	*	
13C-PCB-104	5.12e+07	1.55 y	30:02	1.00	112		2.50				112
13C-PCB-28	7.72e+07	1.05 y	26:41	1.75	96.7		2.50				96.7
13C-PCB-52	4.57e+07	0.80 y	28:57	-	57.1		2.50				
PCB-81	2.56e+07	0.81 y	36:09	1.21	45.8		2.50	-	-	*	
13C-PCB-81	4.61e+07	0.80 y	36:07	1.53	90.8		2.50				90.8
PCB-77	2.52e+07	0.77 y	36:43	1.04	51.5		2.50	-	-	*	
13C-PCB-77	4.68e+07	0.82 y	36:42	1.54	91.8		2.50				91.8
PCB-155	2.51e+07	1.29 y	34:12	1.05	50.7		2.50	-	-	*	
13C-PCB-155	4.70e+07	1.29 y	34:11	1.35	104		2.50				104
13C-PCB-111	4.22e+07	1.62 y	36:16	1.21	105		2.50				105
13C-PCB-101	3.32e+07	1.60 y	34:38	-	51.9		2.50				
PCB-123	2.09e+07	1.58 y	38:19	0.97	55.1		2.50	-	-	*	
13C-PCB-123	3.93e+07	1.55 y	38:19	1.48	75.1		2.50				75.1
PCB-118	2.29e+07	1.54 y	38:31	1.06	50.4		2.50	-	-	*	
13C-PCB-118	4.30e+07	1.58 y	38:29	1.54	78.9		2.50				78.9
PCB-114	2.21e+07	1.54 y	39:07	1.07	49.2		2.50	-	-	*	
13C-PCB-114	4.21e+07	1.57 y	39:05	1.46	81.4		2.50				81.4
PCB-105	2.07e+07	1.54 y	39:57	1.14	45.1		2.50	-	-	*	
13C-PCB-105	4.02e+07	1.57 y	39:55	1.40	81.4		2.50				81.4
PCB-126	1.95e+07	1.55 y	42:03	1.10	47.6		2.50	-	-	*	
13C-PCB-126	3.73e+07	1.60 y	42:03	1.32	79.7		2.50				79.7
PCB-167	2.00e+07	1.24 y	43:26	1.18	45.5		2.50	-	-	*	
13C-PCB-167	3.73e+07	1.27 y	43:24	1.13	93.6		2.50				93.6
PCB-156	1.95e+07	1.23 y	44:40	1.24	43.9		2.50	-	-	*	
13C-PCB-156	3.56e+07	1.30 y	44:38	1.06	94.7		2.50				94.7
PCB-157	1.96e+07	1.26 y	44:54	1.18	45.6		2.50	-	-	*	
13C-PCB-157	3.64e+07	1.30 y	44:53	1.07	96.4		2.50				96.4
PCB-169	1.87e+07	1.25 y	46:46	1.12	47.5		2.50	-	-	*	
13C-PCB-169	3.54e+07	1.29 y	46:45	1.00	100		2.50				100
PCB-188	1.96e+07	1.05 y	39:42	1.03	51.5		2.50	-	-	*	
13C-PCB-188	3.69e+07	1.07 y	39:42	1.26	82.7		2.50				82.7
PCB-189	1.72e+07	1.06 y	48:27	1.06	50.4		2.50	-	-	*	
13C-PCB-189	3.22e+07	1.07 y	48:25	0.96	94.9		2.50				94.9
PCB-202	1.68e+07	0.91 y	44:49	1.03	48.9		2.50	-	-	*	
13C-PCB-202	3.34e+07	0.91 y	44:48	0.89	107		2.50				107
13C-PCB-178	2.33e+07	1.05 y	42:20	0.78	84.3		2.50				84.3
13C-PCB-138	3.54e+07	1.29 y	46:45	-	64.8		2.50				

FAL ID: ST072419Z2 Filename: 24JUL19Z Sam:16 Acquired: 25-JUL-19 01:40:20 ICal: DAILYFAL4-7-24-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 12532 GC Column: DB1MS Amount: 1.000

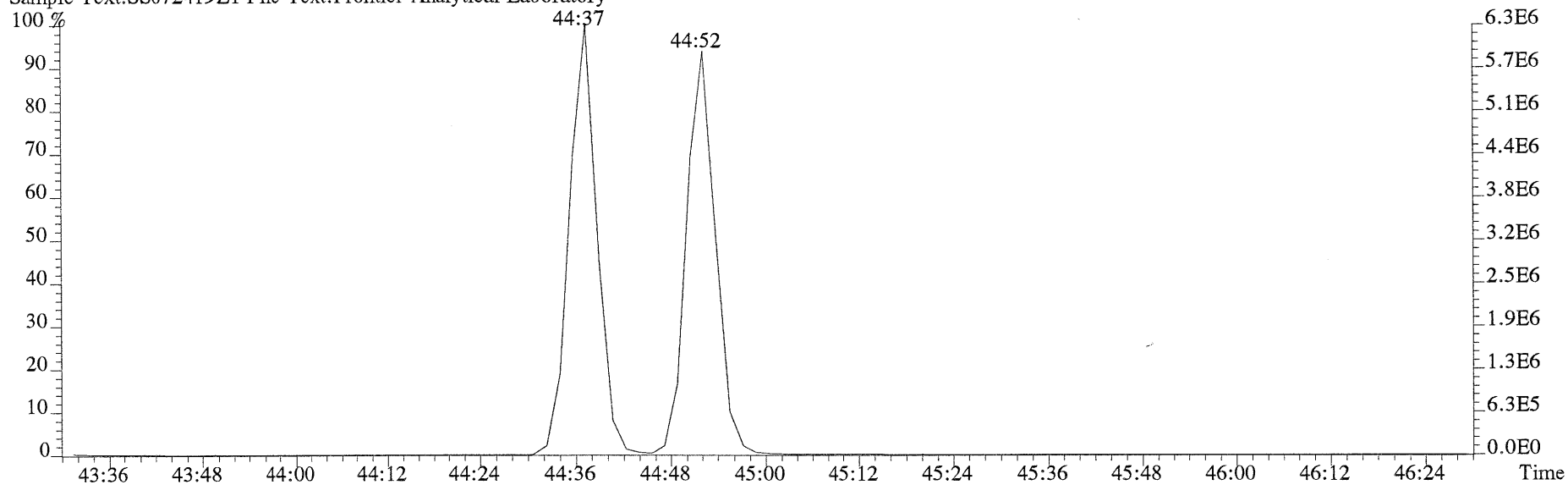
PCB-205	2.08e+07	0.89 y	50:06	1.06	50.7	2.50	-	-	*	
13C-PCB-205	3.88e+07	0.89 y	50:05	1.30	105	2.50				105
PCB-208	1.90e+07	1.39 y	49:09	1.09	48.3	2.50	-	-	*	
13C-PCB-208	3.63e+07	0.80 y	49:09	1.05	122	2.50				122
PCB-206	1.53e+07	1.37 y	51:18	1.08	48.5	2.50	-	-	*	
13C-PCB-206	2.92e+07	0.81 y	51:18	0.89	115	2.50				115
PCB-209	2.14e+07	1.20 y	52:30	1.14	51.2	2.50	-	-	*	
13C-PCB-209	3.67e+07	1.19 y	52:30	1.10	117	2.50				117
13C-PCB-194	2.84e+07	0.90 y	49:49	-	54.3	2.50				

Analyst: _____ Date: 7/25/19

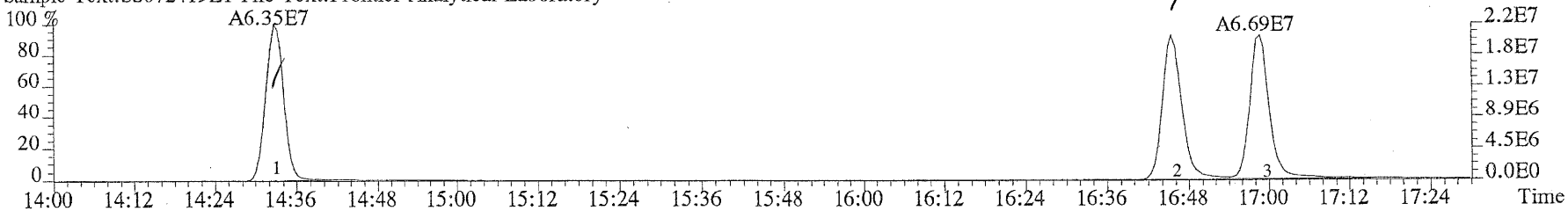
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



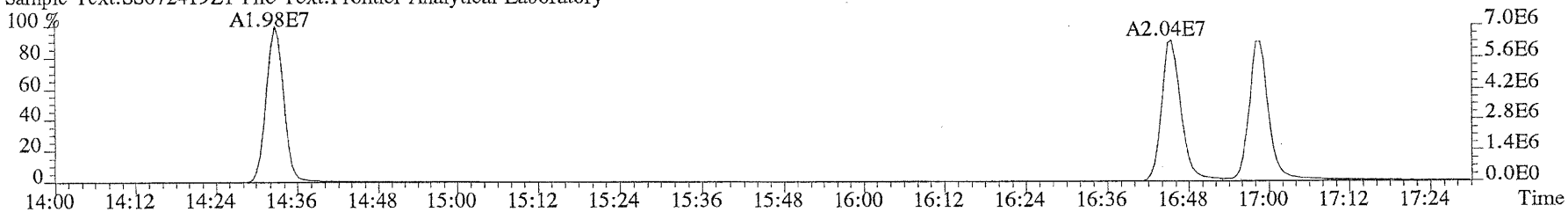
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



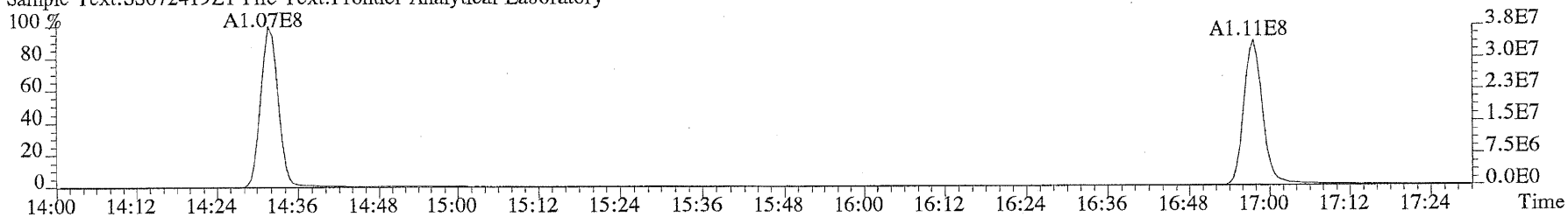
File:24JUL19Z #1-784 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



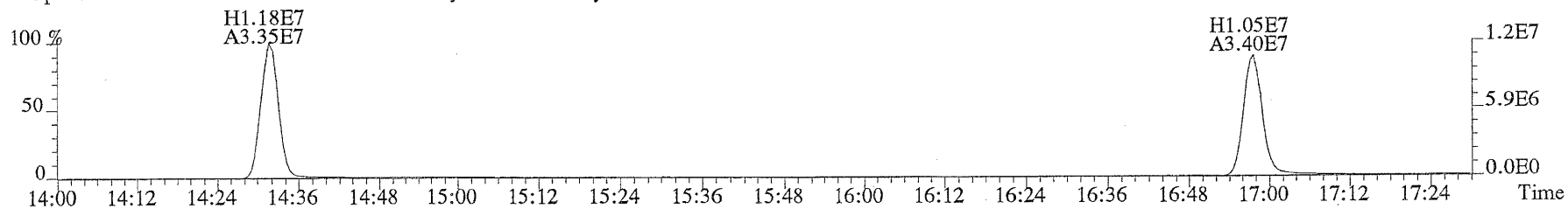
File:24JUL19Z #1-784 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



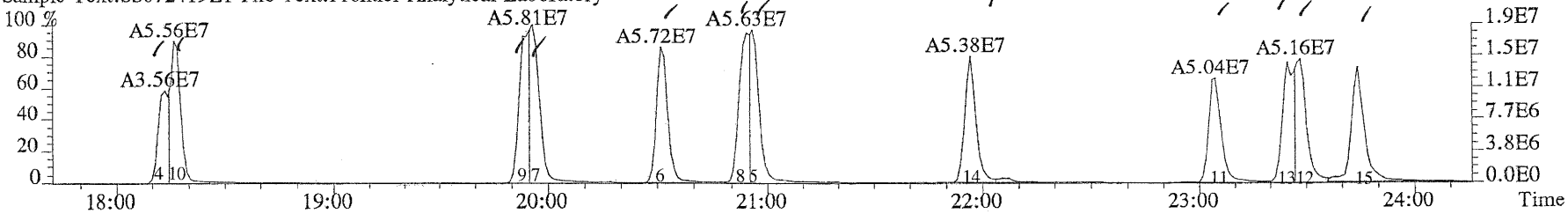
File:24JUL19Z #1-784 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



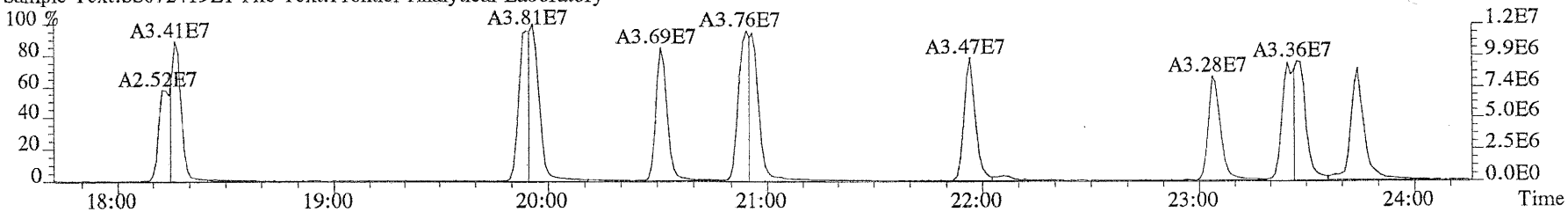
File:24JUL19Z #1-784 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



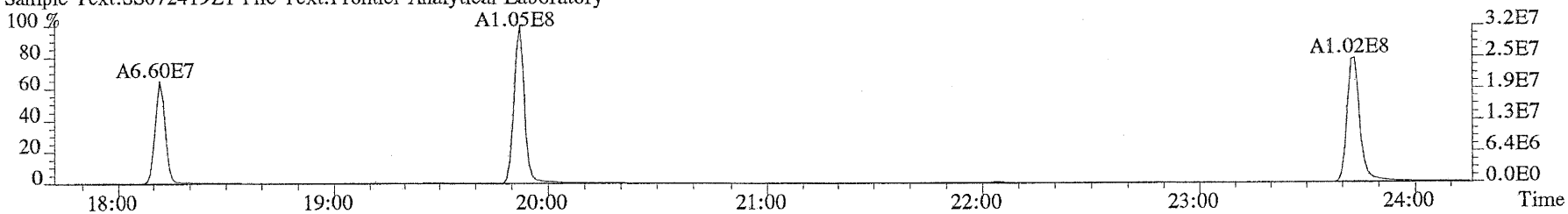
File:24JUL19Z #1-520 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



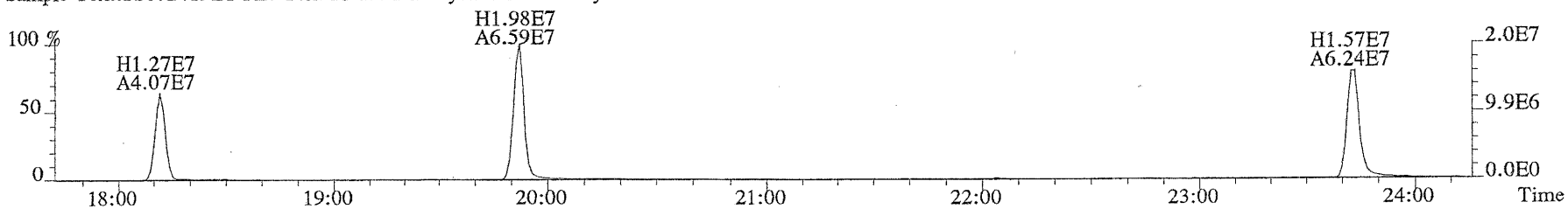
File:24JUL19Z #1-520 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



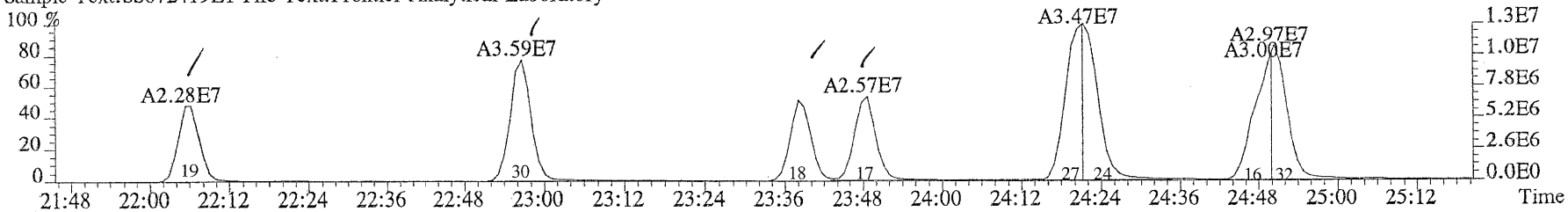
File:24JUL19Z #1-520 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



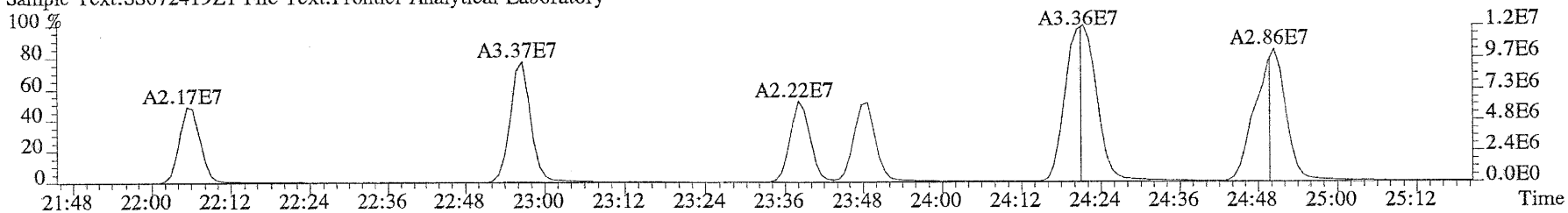
File:24JUL19Z #1-520 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



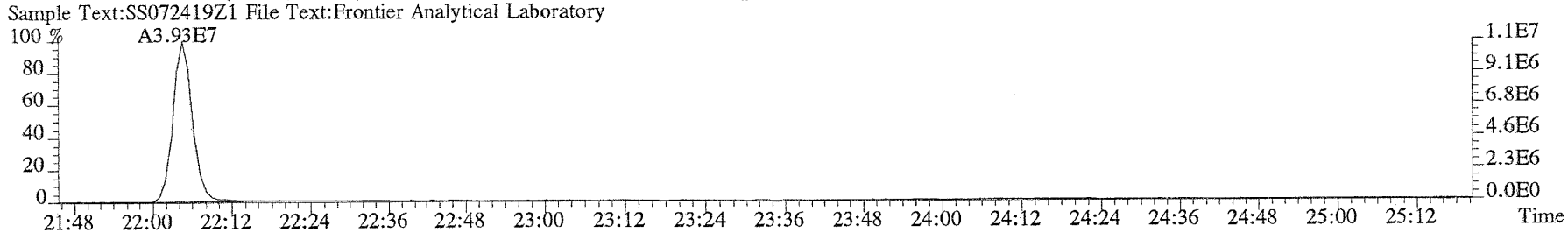
File:24JUL19Z #1-520 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



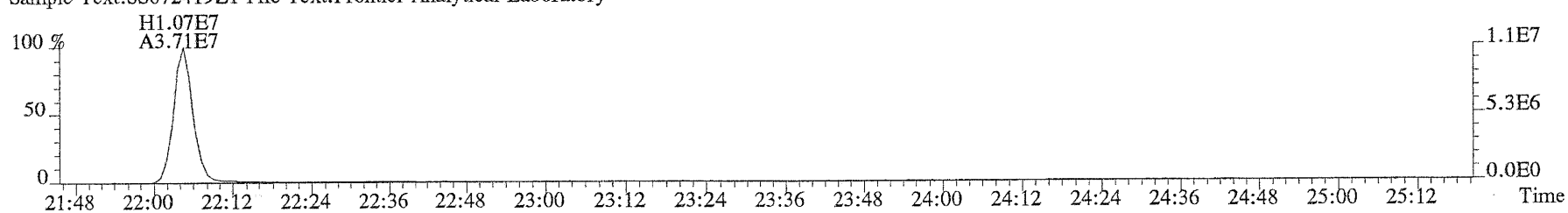
File:24JUL19Z #1-520 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



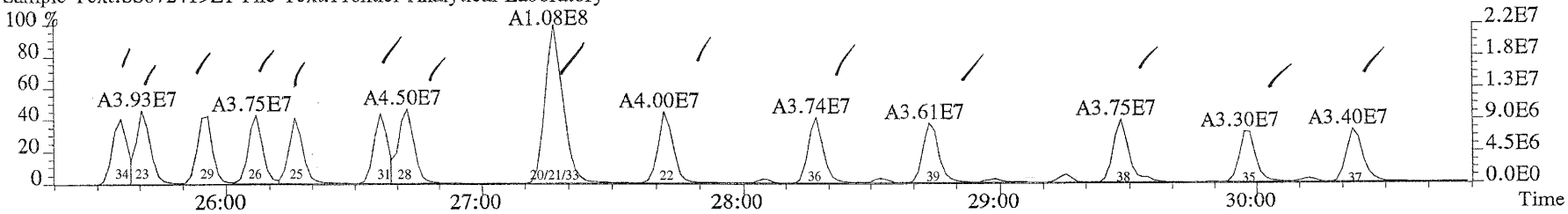
File:24JUL19Z #1-520 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



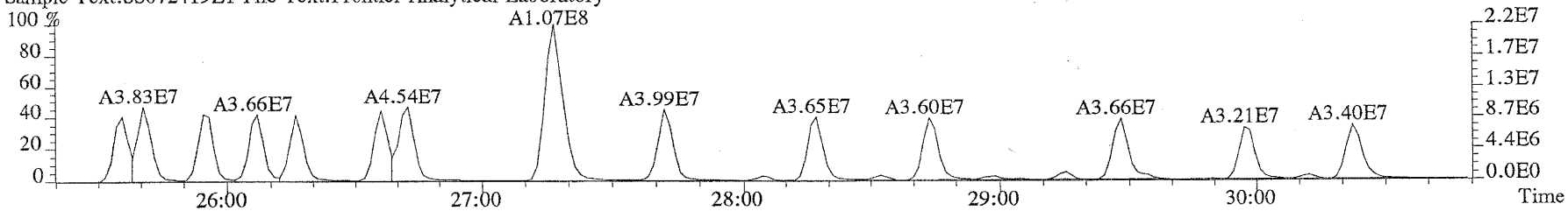
File:24JUL19Z #1-520 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



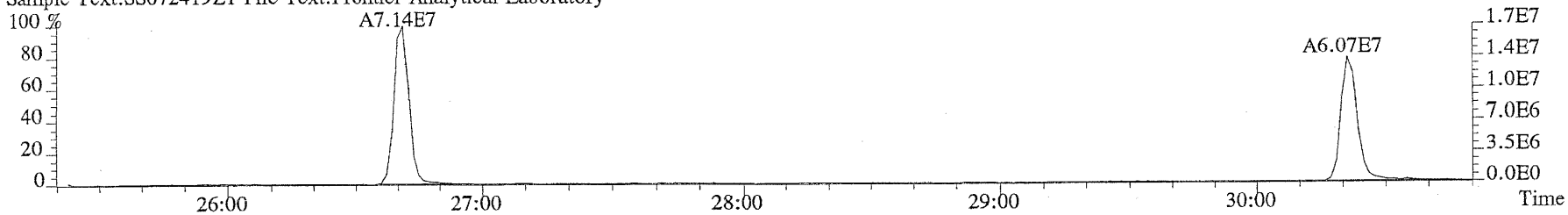
File:24JUL19Z #1-401 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



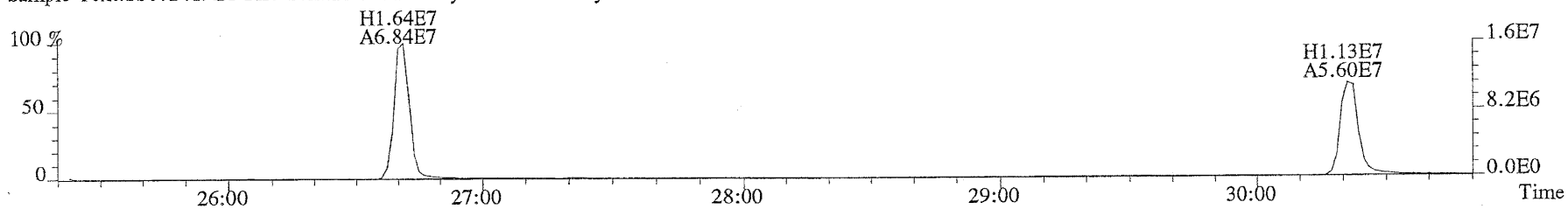
File:24JUL19Z #1-401 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



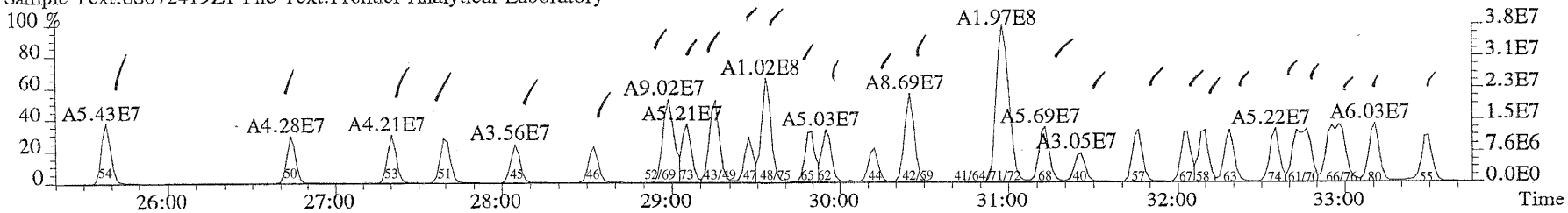
File:24JUL19Z #1-401 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



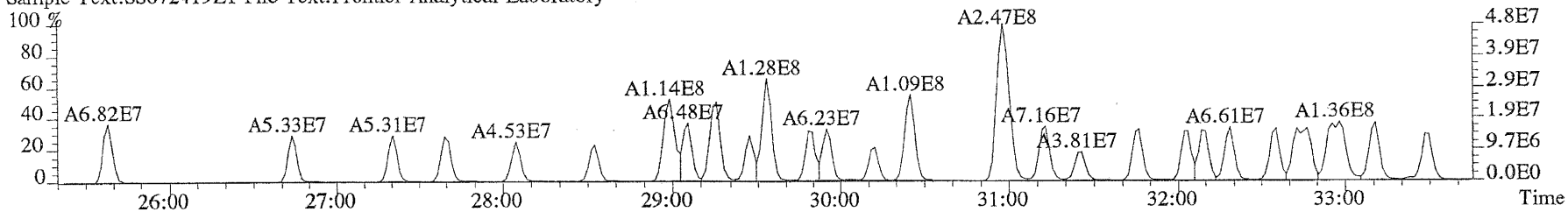
File:24JUL19Z #1-401 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



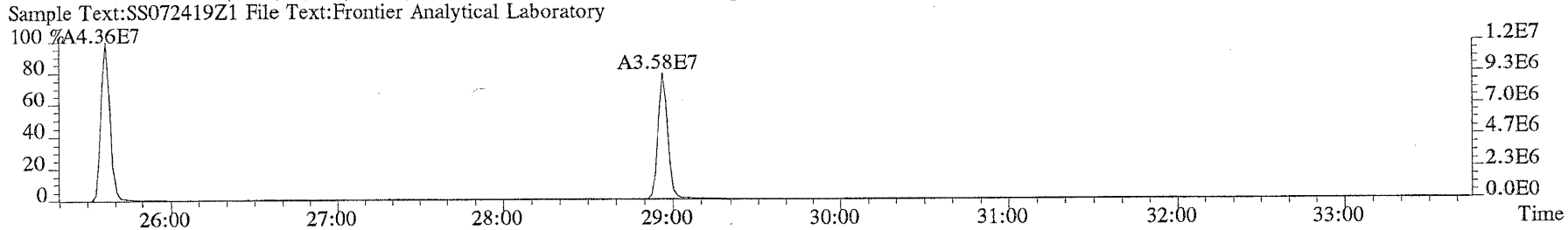
File:24JUL19Z #1-401 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



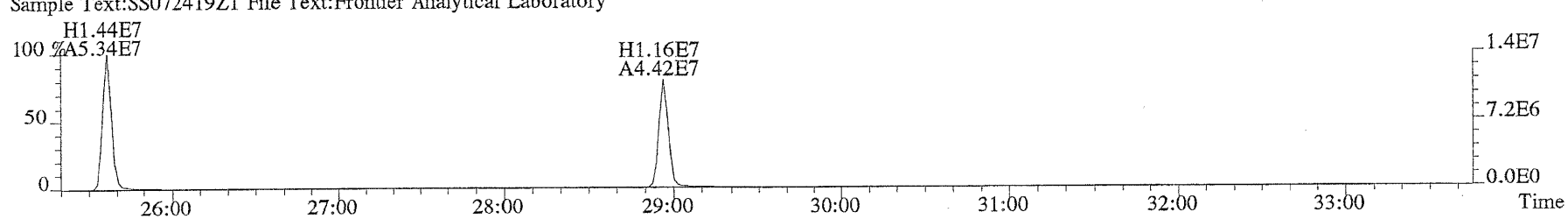
File:24JUL19Z #1-401 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



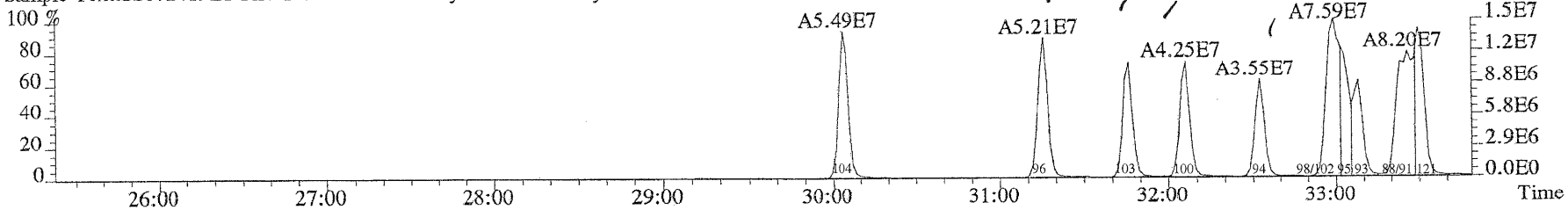
File:24JUL19Z #1-401 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



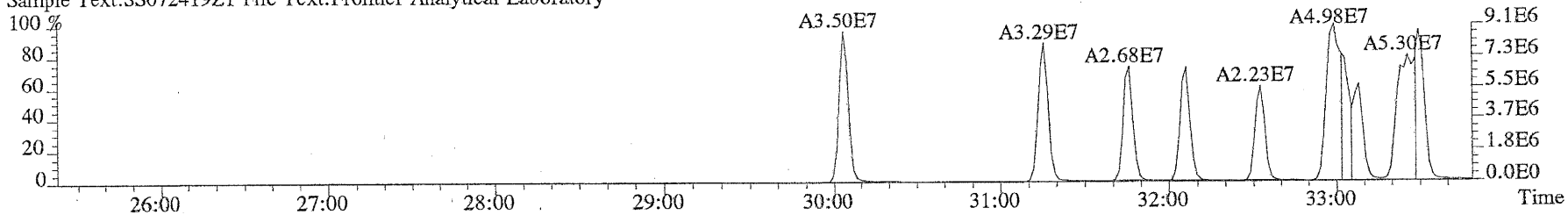
File:24JUL19Z #1-401 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



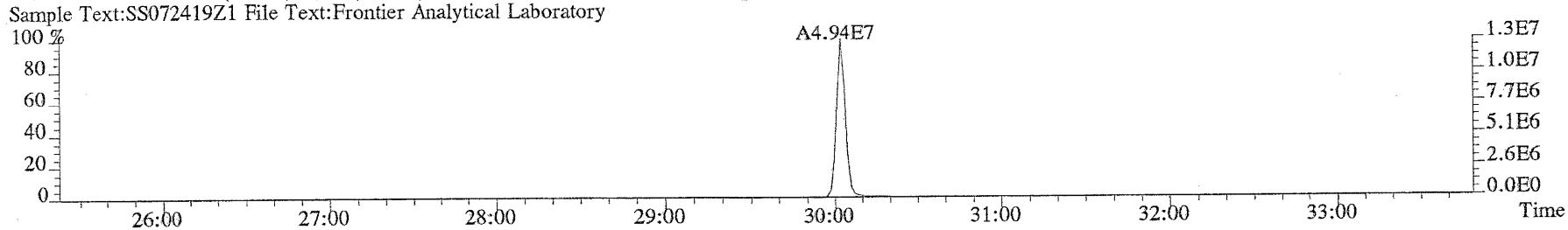
File:24JUL19Z #1-401 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



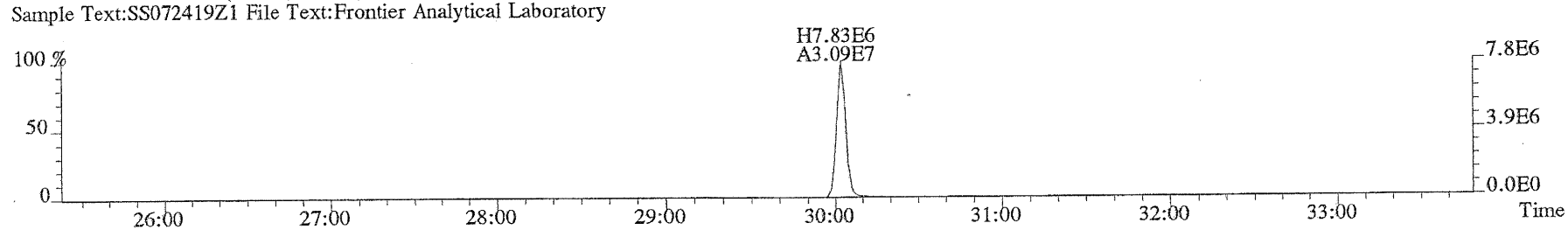
File:24JUL19Z #1-401 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



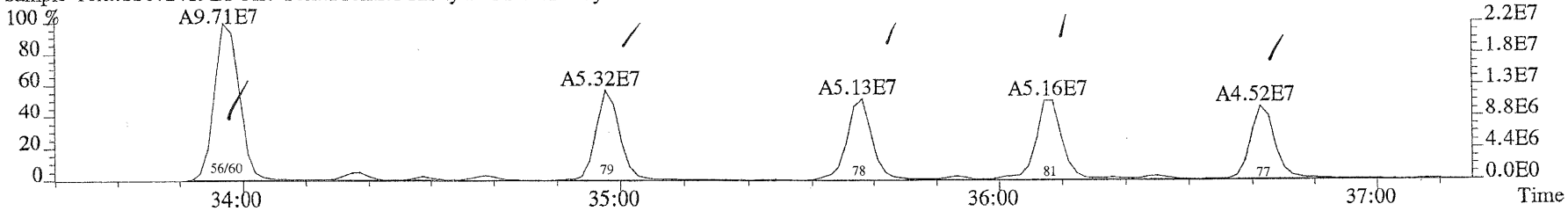
File:24JUL19Z #1-401 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



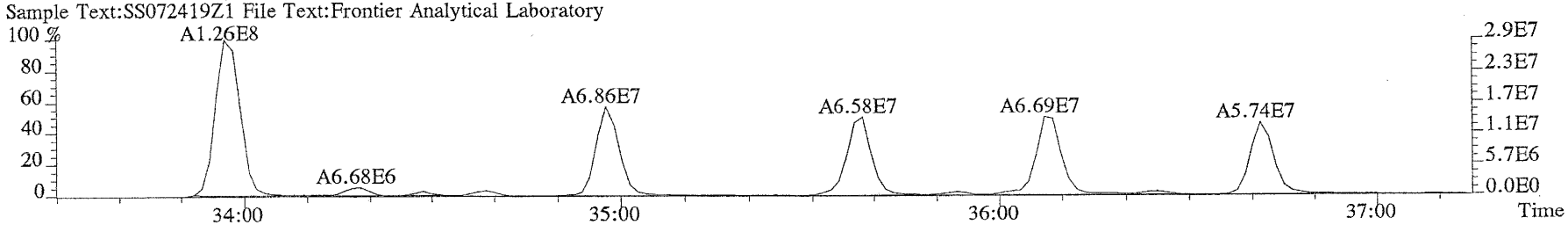
File:24JUL19Z #1-401 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



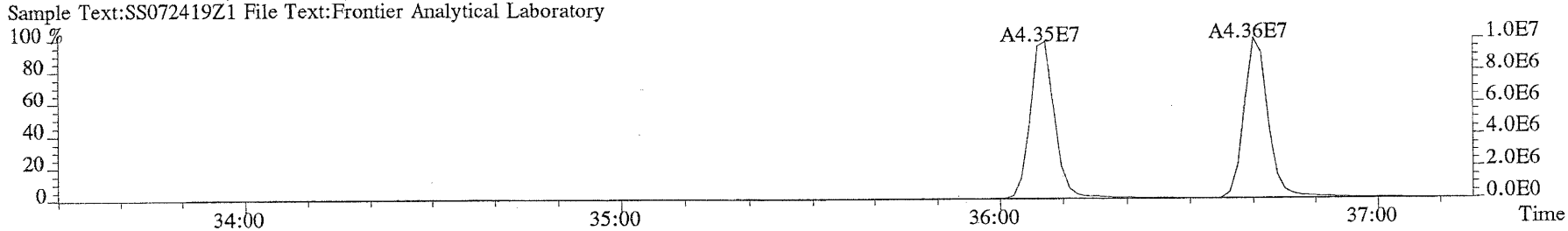
File:24JUL19Z #1-181 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



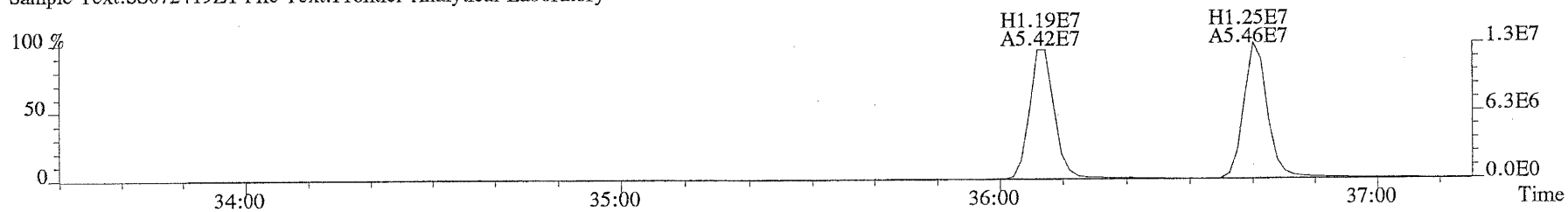
File:24JUL19Z #1-181 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



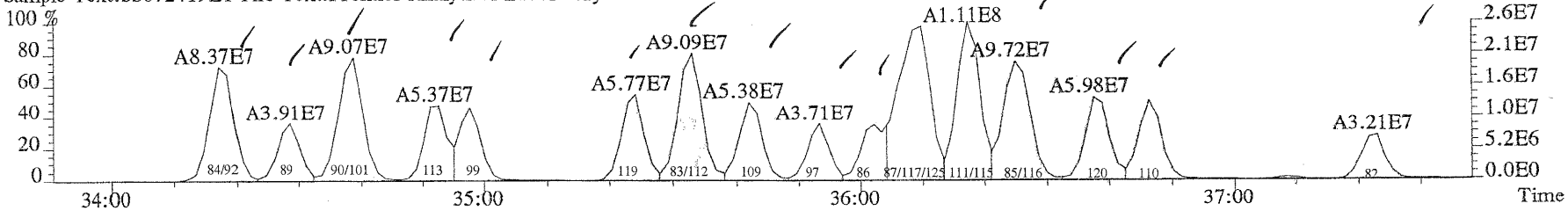
File:24JUL19Z #1-181 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



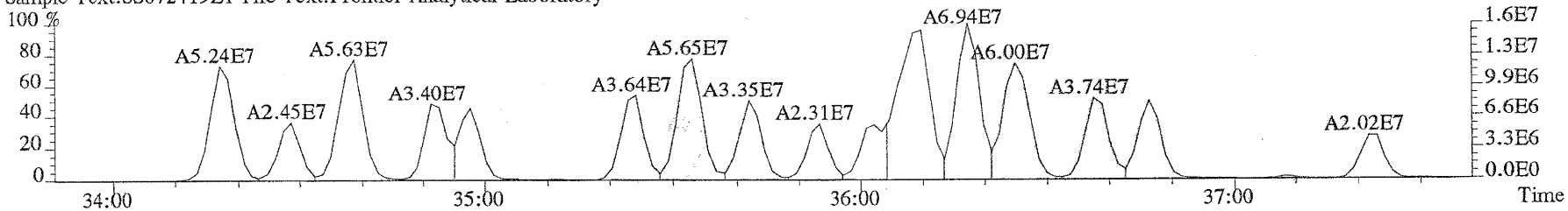
File:24JUL19Z #1-181 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



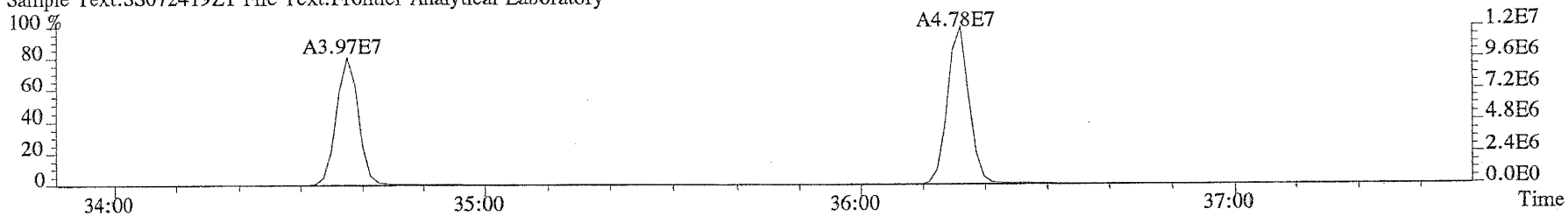
File:24JUL19Z #1-181 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



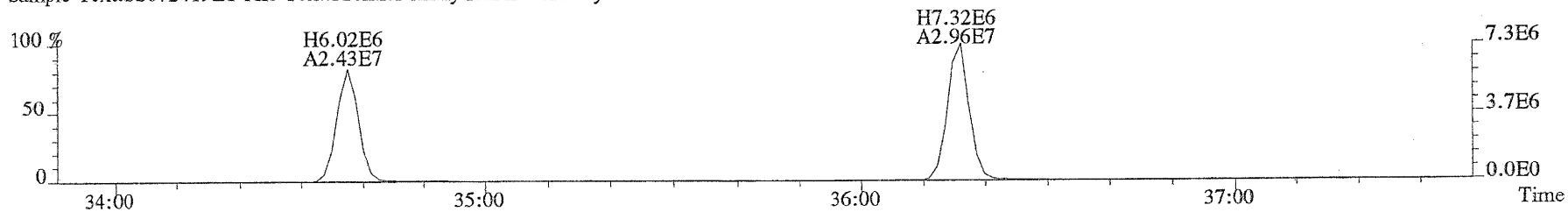
File:24JUL19Z #1-181 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



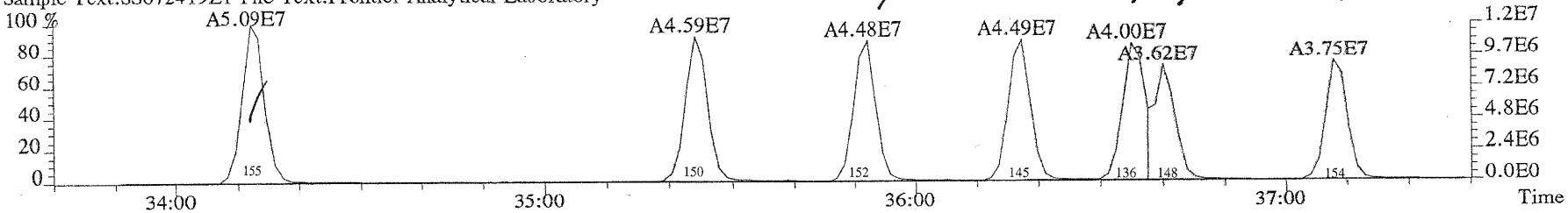
File:24JUL19Z #1-181 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



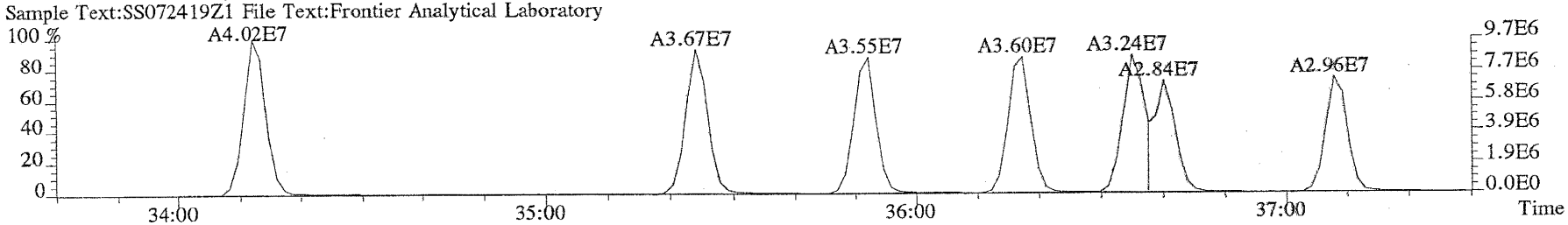
File:24JUL19Z #1-181 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



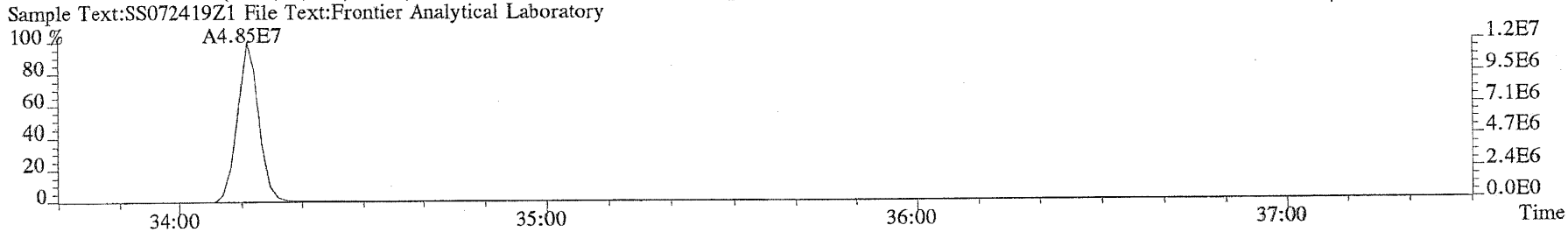
File:24JUL19Z #1-181 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



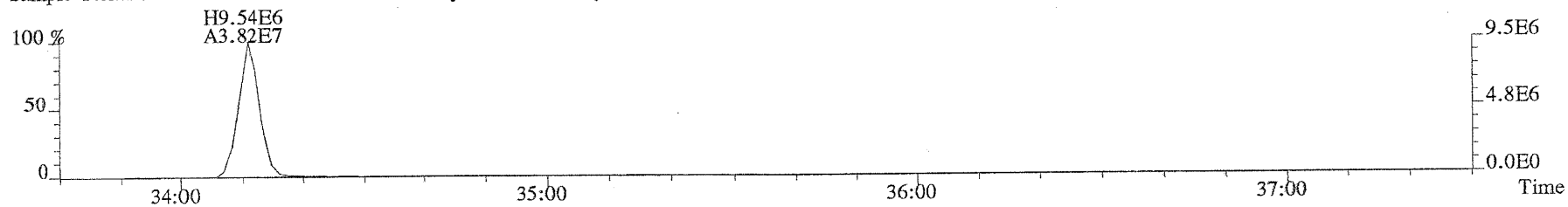
File:24JUL19Z #1-181 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



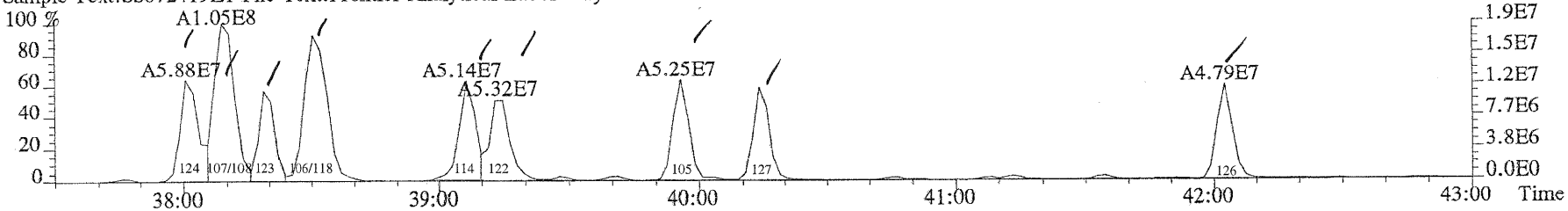
File:24JUL19Z #1-181 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



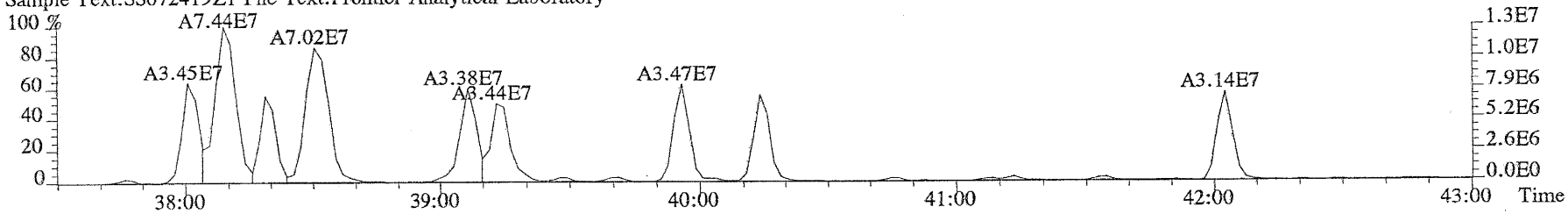
File:24JUL19Z #1-181 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



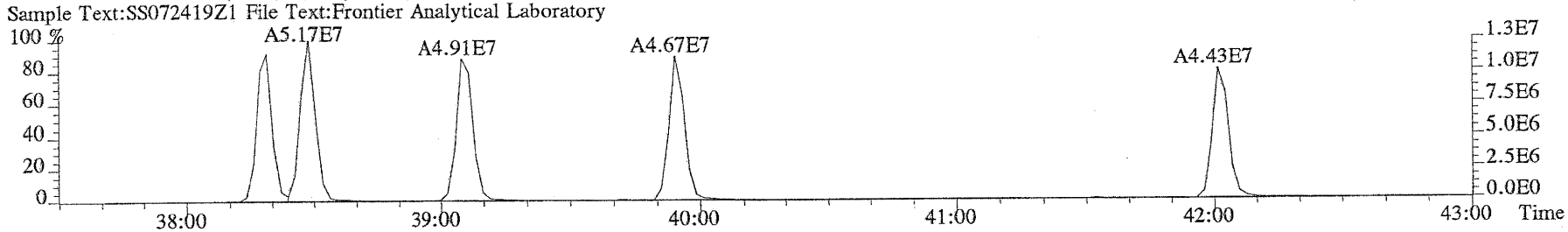
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



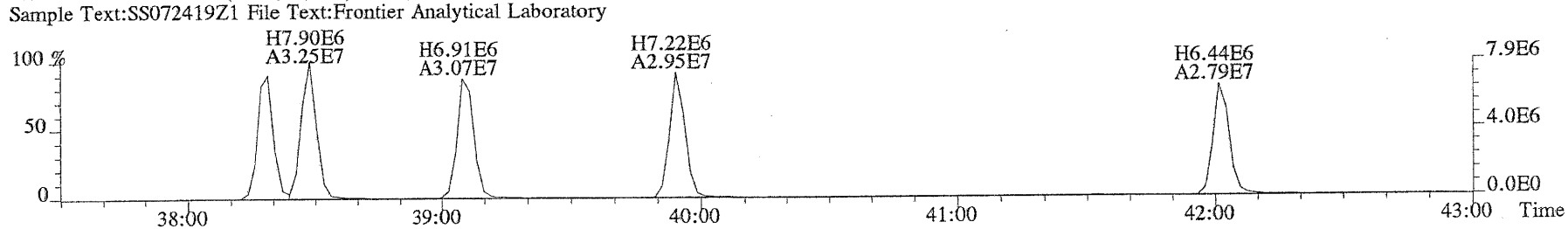
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



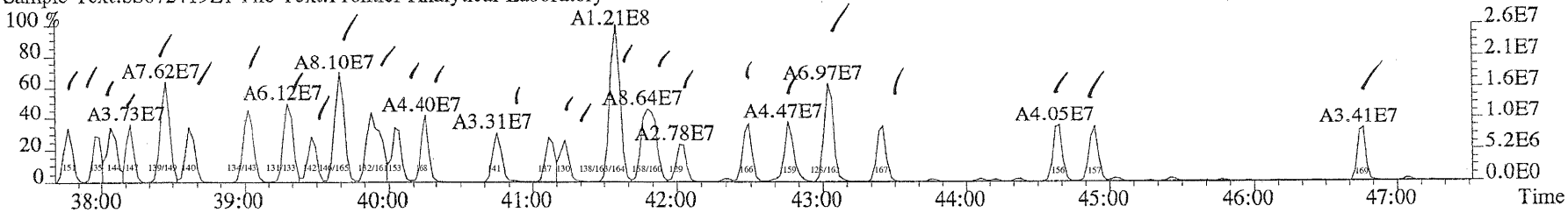
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



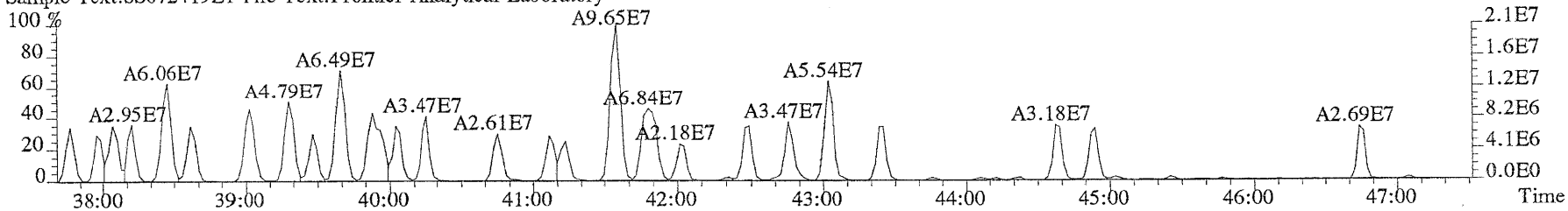
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



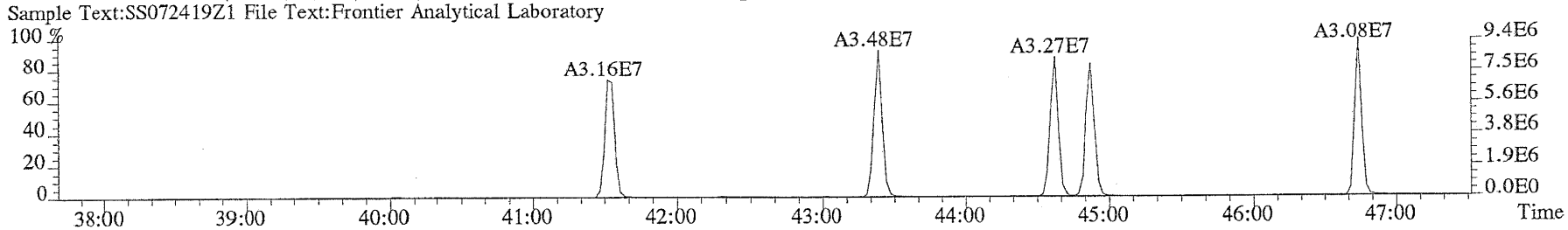
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



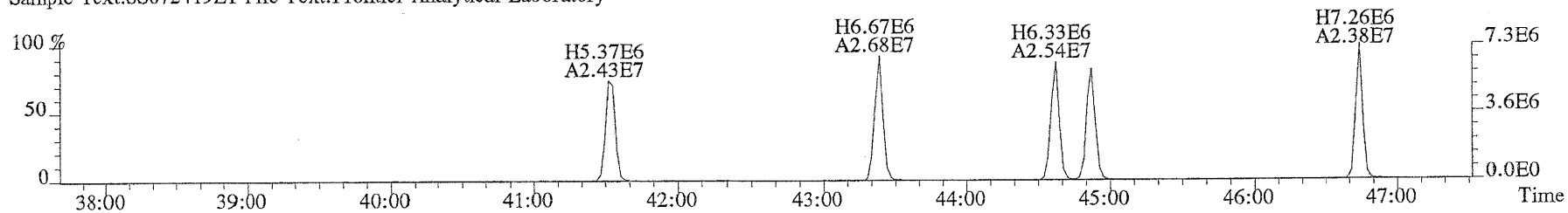
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



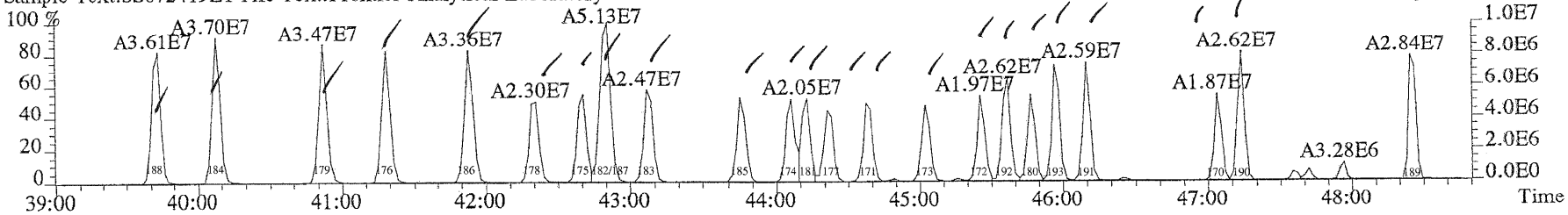
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



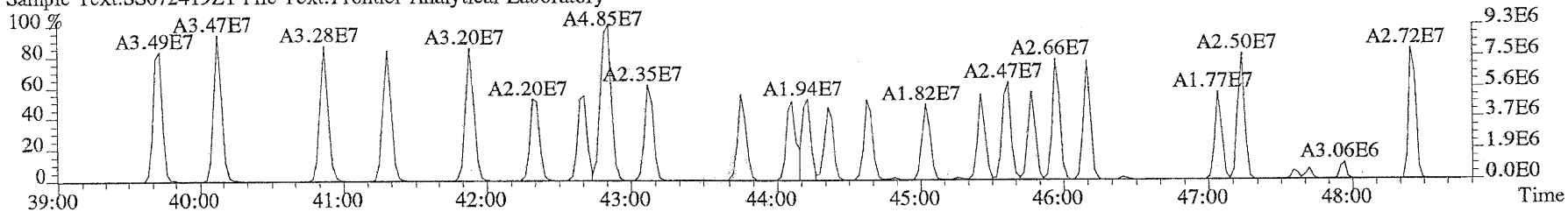
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



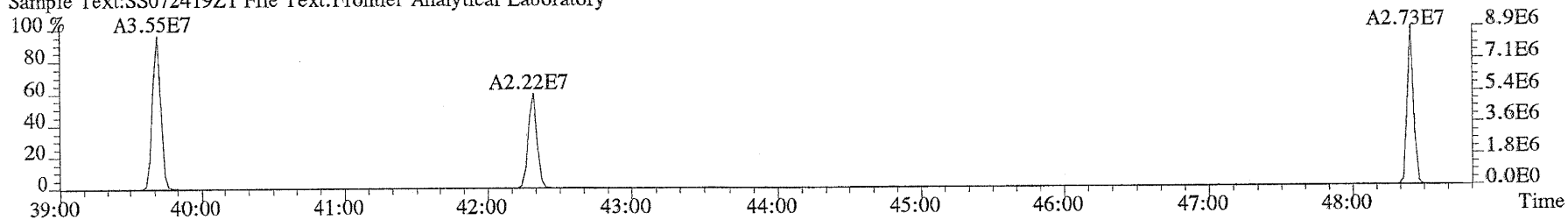
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



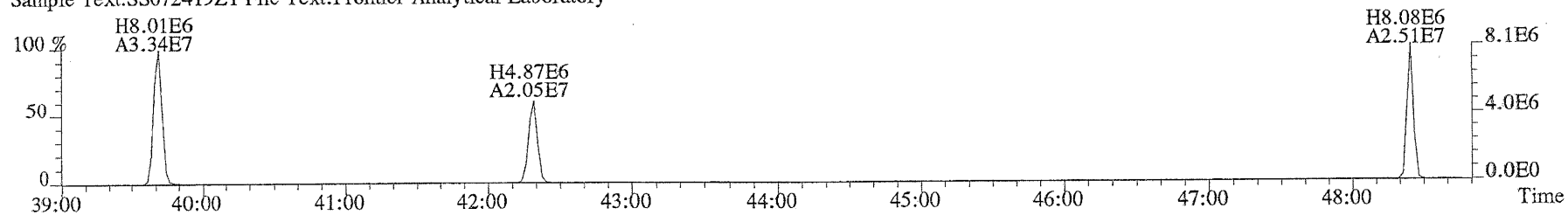
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



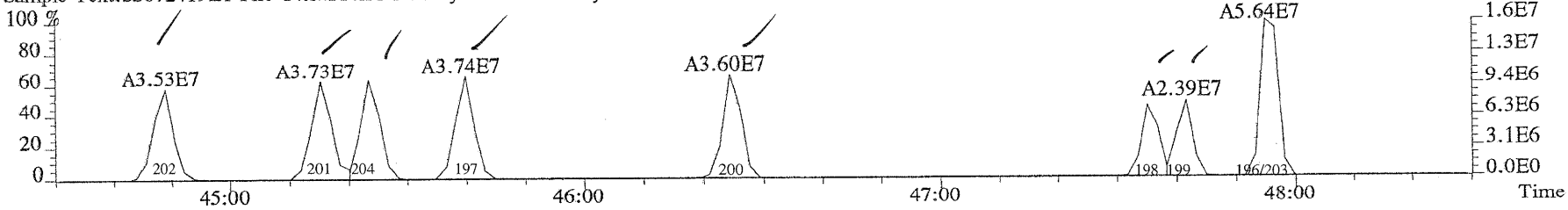
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



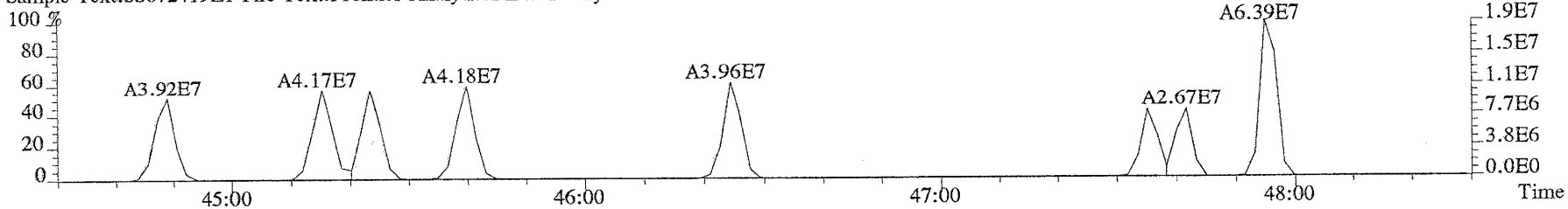
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



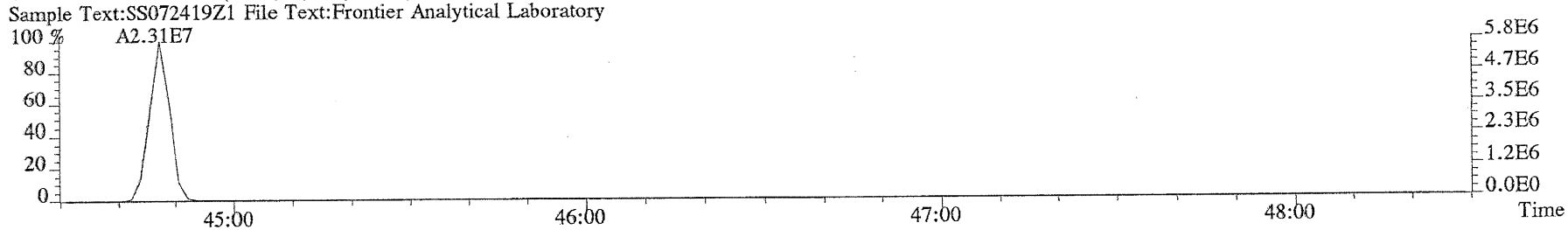
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



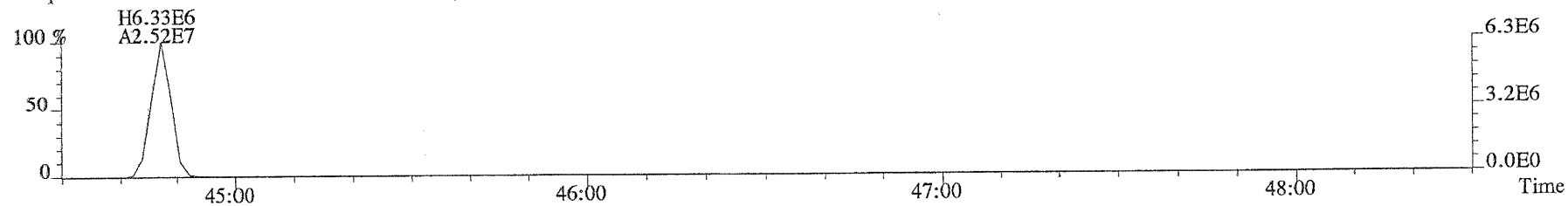
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



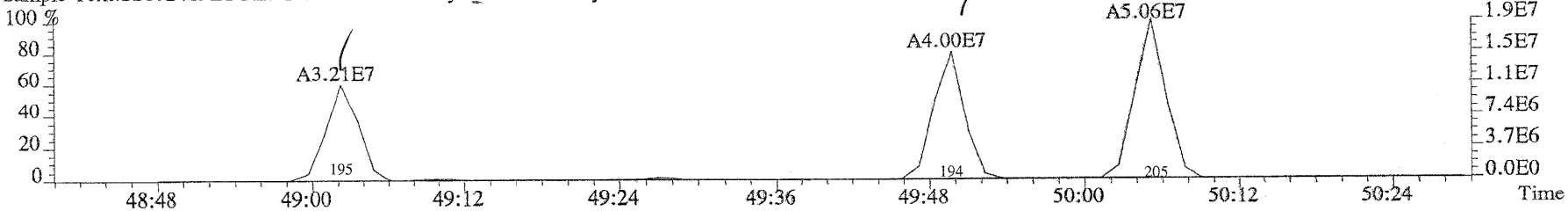
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



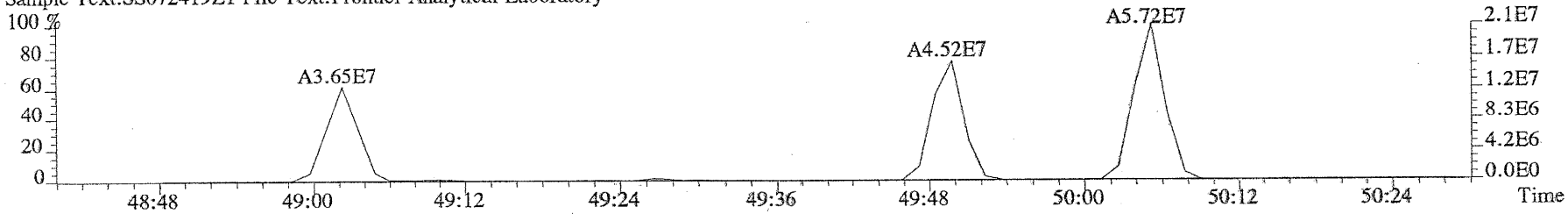
File:24JUL19Z #1-405 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



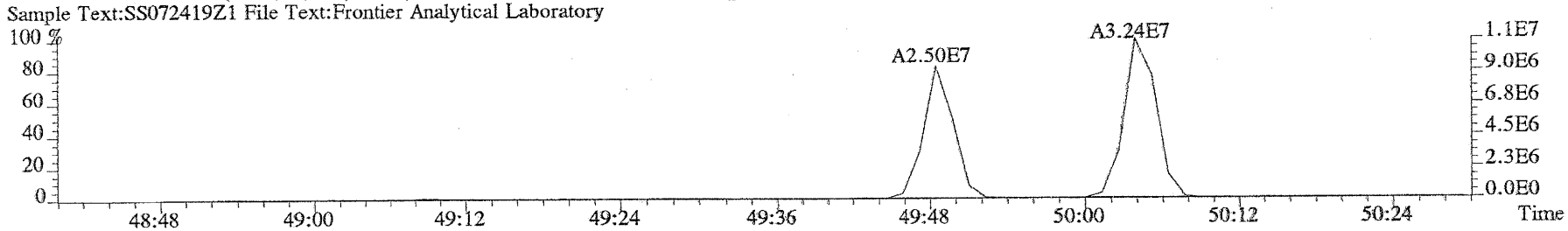
File:24JUL19Z #1-315 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



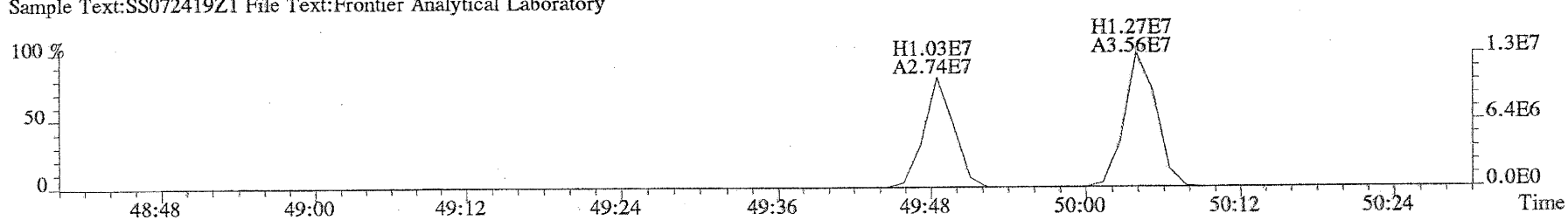
File:24JUL19Z #1-315 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



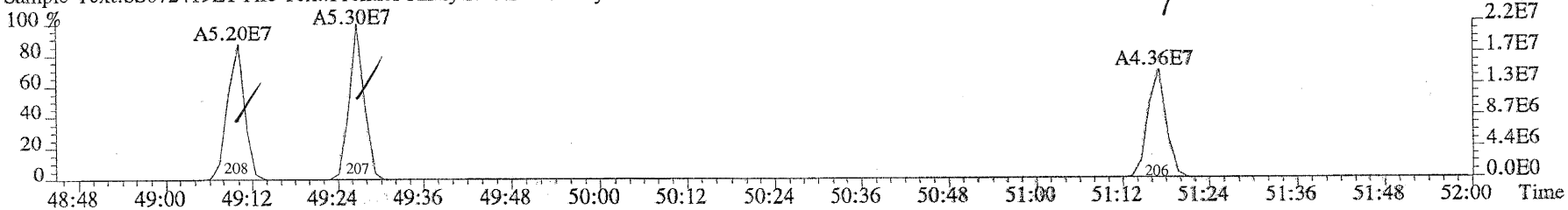
File:24JUL19Z #1-315 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



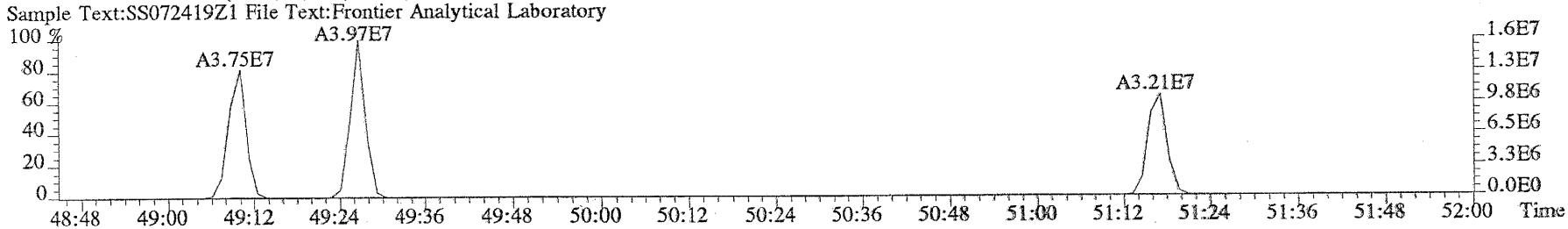
File:24JUL19Z #1-315 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



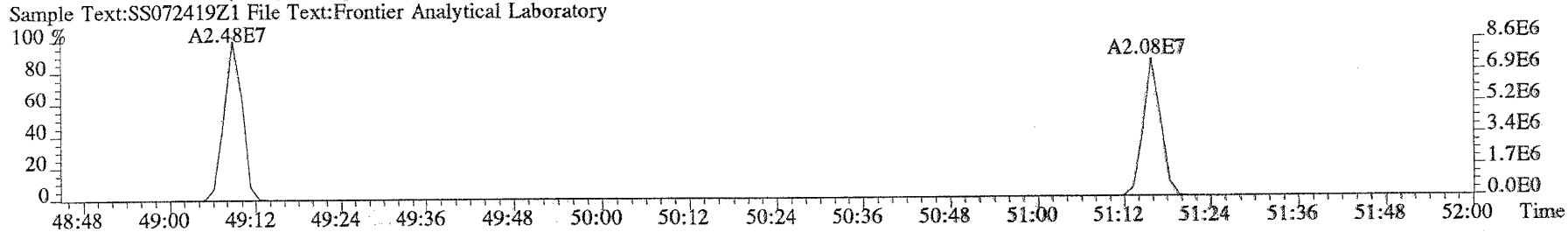
File:24JUL19Z #1-315 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



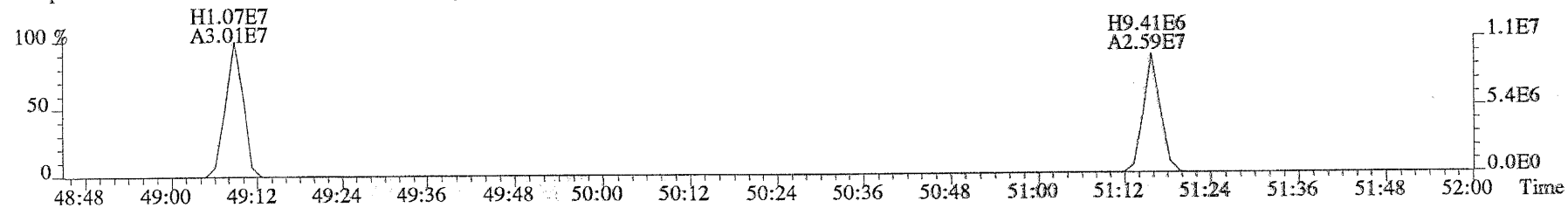
File:24JUL19Z #1-315 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



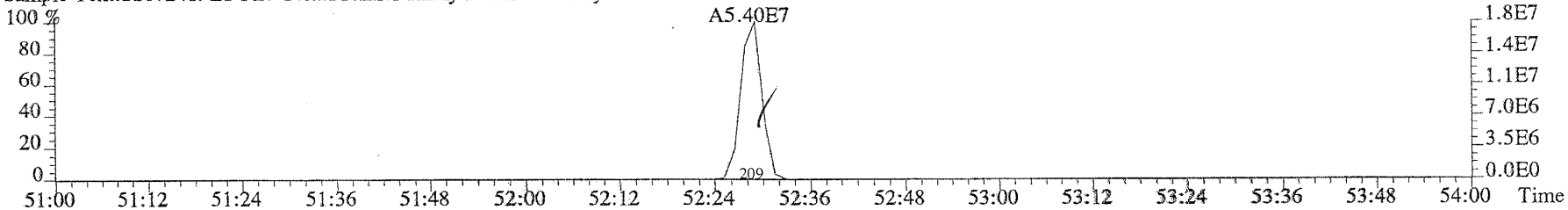
File:24JUL19Z #1-315 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



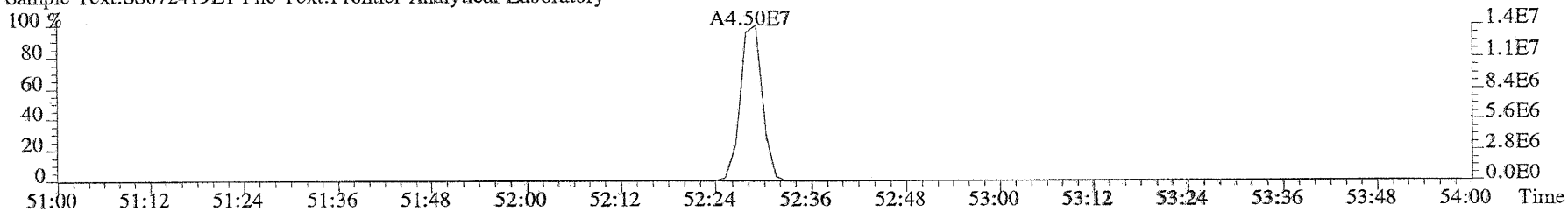
File:24JUL19Z #1-315 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



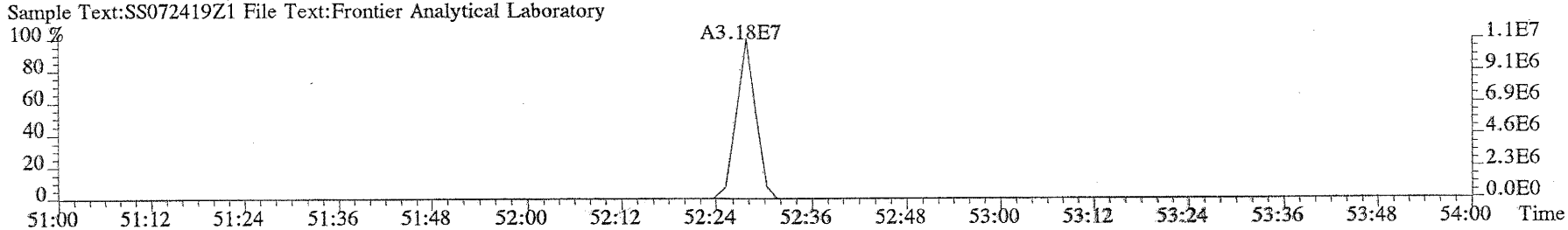
File:24JUL19Z #1-315 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



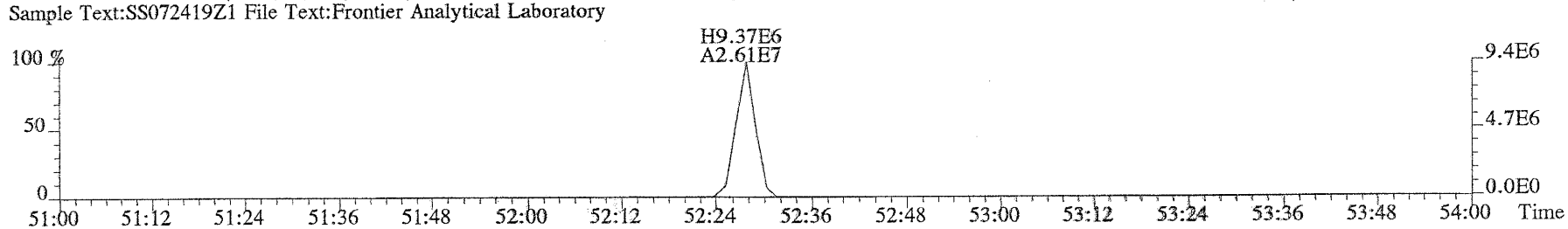
File:24JUL19Z #1-315 Acq:24-JUL-2019 12:01:29 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072419Z1 File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 12:01:29 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:SS072419Z1 File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-315 Acq:24-JUL-2019 12:01:29 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:SS072419Z1 File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 24JUL19Z Sam:16 Analysis Date: 25-JUL-19 01:40:20

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.18	2.66-3.60	y	46.3	37.5 - 62.5
PCB-3	M/M+2	3.22	2.66-3.60	y	48.4	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	48.0	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	50.2	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	51.6	37.5 - 62.5
PCB-37	M/M+2	1.06	0.88-1.20	y	51.7	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	52.6	37.5 - 62.5
PCB-77	M/M+2	0.77	0.65-0.89	y	52.6	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	52.2	37.5 - 62.5
PCB-104	M+2/M+4	1.56	1.32-1.78	y	51.1	37.5 - 62.5
PCB-105	M+2/M+4	1.54	1.32-1.78	y	50.7	37.5 - 62.5
PCB-114	M+2/M+4	1.54	1.32-1.78	y	51.7	37.5 - 62.5
PCB-118	M+2/M+4	1.54	1.32-1.78	y	52.3	37.5 - 62.5
PCB-123	M+2/M+4	1.58	1.32-1.78	y	51.4	37.5 - 62.5
PCB-126	M+2/M+4	1.55	1.32-1.78	y	51.5	37.5 - 62.5
PCB-155	M+2/M+4	1.29	1.05-1.43	y	52.0	37.5 - 62.5
PCB-156	M+2/M+4	1.23	1.05-1.43	y	49.8	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	50.6	37.5 - 62.5
PCB-167	M+2/M+4	1.24	1.05-1.43	y	50.0	37.5 - 62.5
PCB-169	M+2/M+4	1.25	1.05-1.43	y	50.0	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	52.2	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	53.9	37.5 - 62.5
PCB-202	M+2/M+4	0.91	0.76-1.02	y	50.8	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	52.4	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	52.8	37.5 - 62.5
PCB-208	M+4/M+6	1.39	1.13-1.53	y	53.7	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	53.6	37.5 - 62.5

Analyst: [signature] Date: 7/25/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 24JUL19Z Sam:16 Analysis Date: 25-JUL-19 01:40:20

	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	107	50.0 - 145
13C-PCB-3	M/M+2	3.21	2.66-3.60	y	101	50.0 - 145
13C-PCB-4	M/M+2	1.56	1.33-1.79	y	101	50.0 - 145
13C-PCB-15	M/M+2	1.63	1.33-1.79	y	87.0	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	1.10	0.88-1.20	y	82.9	50.0 - 145
13C-PCB-54	M/M+2	0.83	0.65-0.89	y	101	50.0 - 145
13C-PCB-77	M/M+2	0.82	0.65-0.89	y	90.0	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	92.5	50.0 - 145
13C-PCB-104	M+2/M+4	1.55	1.32-1.78	y	102	50.0 - 145
13C-PCB-105	M+2/M+4	1.57	1.32-1.78	y	94.3	50.0 - 145
13C-PCB-114	M+2/M+4	1.57	1.32-1.78	y	98.4	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	94.8	50.0 - 145
13C-PCB-123	M+2/M+4	1.55	1.32-1.78	y	95.2	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	91.9	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	99.8	50.0 - 145
13C-PCB-156	M+2/M+4	1.30	1.05-1.43	y	97.4	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	92.1	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	98.3	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	96.2	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	96.9	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	102	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	104	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	97.4	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	102	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	93.7	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	107	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	99.0	65.0 - 135
13C-PCB-111	M+2/M+4	1.62	1.32-1.78	y	98.6	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	97.8	75.0 - 125

Analyst: [signature] Date: 7/25/19

FAL ID: ST072419Z2 Filename: 24JUL19Z Sam:16 Acquired: 25-JUL-19 01:40:20 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.08e+07	3.18 y	14:33	1.19	46.3		2.50	-	-	*	-
13C-PCB-1	1.10e+08	3.25 y	14:32	1.02	107		2.50				107
PCB-3	5.62e+07	3.22 y	16:59	1.18	48.4		2.50	-	-	*	-
13C-PCB-3	9.87e+07	3.21 y	16:58	0.97	101		2.50				101
PCB-4	3.73e+07	1.57 y	18:14	1.04	48.0		2.50	-	-	*	-
13C-PCB-4	7.45e+07	1.56 y	18:12	0.74	101		2.50				101
PCB-15	4.36e+07	1.57 y	23:45	1.03	50.2		2.50	-	-	*	-
13C-PCB-15	8.41e+07	1.63 y	23:44	0.96	87.0		2.50				87.0
PCB-19	3.18e+07	1.06 y	22:07	1.11	51.6		2.50	-	-	*	-
13C-PCB-19	5.55e+07	1.09 y	22:05	0.53	105		2.50				105
13C-PCB-9	1.01e+08	1.59 y	19:52	-	130		2.50				
PCB-37	3.18e+07	1.06 y	30:24	1.04	51.7		2.50	-	-	*	-
13C-PCB-37	5.93e+07	1.10 y	30:23	1.57	82.9		2.50				82.9
PCB-54	3.89e+07	0.80 y	25:38	1.16	52.6		2.50	-	-	*	-
13C-PCB-54	6.36e+07	0.83 y	25:37	1.38	101		2.50				101
PCB-104	2.83e+07	1.56 y	30:04	1.08	51.1		2.50	-	-	*	-
13C-PCB-104	5.12e+07	1.55 y	30:02	1.11	102		2.50				102
13C-PCB-28	7.72e+07	1.05 y	26:41	1.71	99.0		2.50				99.0
13C-PCB-52	4.57e+07	0.80 y	28:57	-	120		2.50				
PCB-81	2.56e+07	0.81 y	36:09	1.06	52.2		2.50	-	-	*	-
13C-PCB-81	4.61e+07	0.80 y	36:07	1.50	92.5		2.50				92.5
PCB-77	2.52e+07	0.77 y	36:43	1.02	52.6		2.50	-	-	*	-
13C-PCB-77	4.68e+07	0.82 y	36:42	1.57	90.0		2.50				90.0
PCB-155	2.51e+07	1.29 y	34:12	1.02	52.0		2.50	-	-	*	-
13C-PCB-155	4.70e+07	1.29 y	34:11	1.42	99.8		2.50				99.8
13C-PCB-111	4.22e+07	1.62 y	36:16	1.29	98.6		2.50				98.6
13C-PCB-101	3.32e+07	1.60 y	34:38	-	101		2.50				
PCB-123	2.09e+07	1.58 y	38:19	1.03	51.4		2.50	-	-	*	-
13C-PCB-123	3.93e+07	1.55 y	38:19	1.40	95.2		2.50				95.2
PCB-118	2.29e+07	1.54 y	38:31	1.02	52.3		2.50	-	-	*	-
13C-PCB-118	4.30e+07	1.58 y	38:29	1.53	94.8		2.50				94.8
PCB-114	2.21e+07	1.54 y	39:07	1.01	51.7		2.50	-	-	*	-
13C-PCB-114	4.21e+07	1.57 y	39:05	1.45	98.4		2.50				98.4
PCB-105	2.07e+07	1.54 y	39:57	1.02	50.7		2.50	-	-	*	-
13C-PCB-105	4.02e+07	1.57 y	39:55	1.44	94.3		2.50				94.3
PCB-126	1.95e+07	1.55 y	42:03	1.02	51.5		2.50	-	-	*	-
13C-PCB-126	3.73e+07	1.60 y	42:03	1.37	91.9		2.50				91.9
PCB-167	2.00e+07	1.24 y	43:26	1.07	50.0		2.50	-	-	*	-
13C-PCB-167	3.73e+07	1.27 y	43:24	1.28	98.3		2.50				98.3
PCB-156	1.95e+07	1.23 y	44:40	1.10	49.8		2.50	-	-	*	-
13C-PCB-156	3.56e+07	1.30 y	44:38	1.24	97.4		2.50				97.4
PCB-157	1.96e+07	1.26 y	44:54	1.06	50.6		2.50	-	-	*	-
13C-PCB-157	3.64e+07	1.30 y	44:53	1.34	92.1		2.50				92.1
PCB-169	1.87e+07	1.25 y	46:46	1.06	50.0		2.50	-	-	*	-
13C-PCB-169	3.54e+07	1.29 y	46:45	1.24	96.2		2.50				96.2
PCB-188	1.96e+07	1.05 y	39:42	1.02	52.2		2.50	-	-	*	-
13C-PCB-188	3.69e+07	1.07 y	39:42	1.29	96.9		2.50				96.9
PCB-189	1.72e+07	1.06 y	48:27	0.99	53.9		2.50	-	-	*	-
13C-PCB-189	3.22e+07	1.07 y	48:25	1.07	102		2.50				102
PCB-202	1.68e+07	0.91 y	44:49	0.99	50.8		2.50	-	-	*	-
13C-PCB-202	3.34e+07	0.91 y	44:48	1.09	104		2.50				104
13C-PCB-178	2.33e+07	1.05 y	42:20	0.81	97.8		2.50				97.8
13C-PCB-138	2.96e+07	1.27 y	41:32	-	92.0		2.50				

FAL ID: ST072419Z2 Filename: 24JUL19Z Sam:16 Acquired: 25-JUL-19 01:40:20 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	2.08e+07	0.89	y	50:06	1.02	52.4	2.50	-	-	*	-
13C-PCB-205	3.88e+07	0.89	y	50:05	1.40	97.4	2.50				97.4
PCB-208	1.90e+07	1.39	y	49:09	0.98	53.7	2.50	-	-	*	-
13C-PCB-208	3.63e+07	0.80	y	49:09	1.36	93.7	2.50				93.7
PCB-206	1.53e+07	1.37	y	51:18	0.99	52.8	2.50	-	-	*	-
13C-PCB-206	2.92e+07	0.81	y	51:18	1.01	102	2.50				102
PCB-209	2.14e+07	1.20	y	52:30	1.09	53.6	2.50	-	-	*	-
13C-PCB-209	3.67e+07	1.19	y	52:30	1.21	107	2.50				107
13C-PCB-194	2.84e+07	0.90	y	49:49	-	92.8	2.50				

Analyst: _____ Date: 7/25/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:24JUL19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

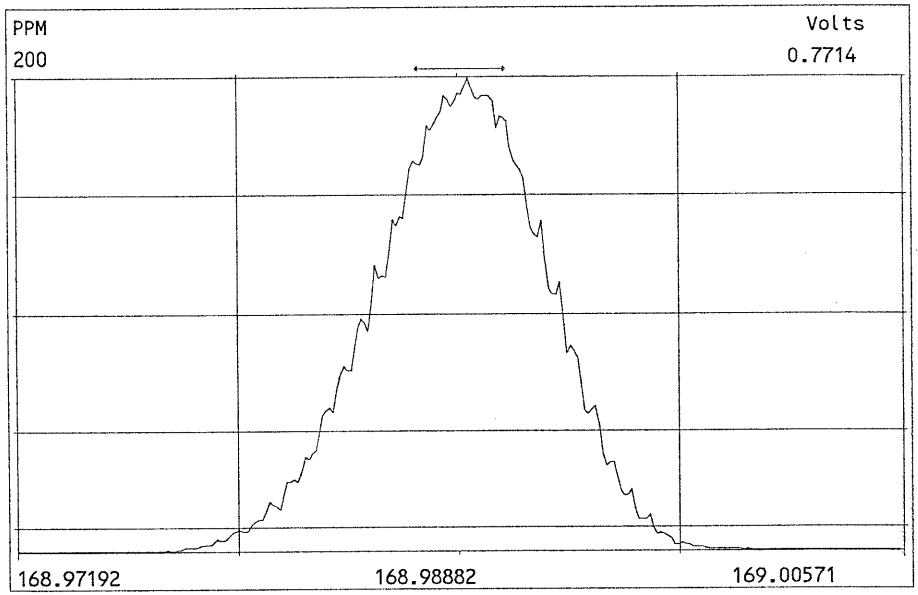
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
24JUL19Z	1	ST072419Z1	1668 CS3 R181204D	24-JUL-19 11:03:04	ST072419Z1	ST072419Z2	BS
24JUL19Z	2	SS072419Z1	Daily 209 190408A	24-JUL-19 12:01:29	ST072419Z1	ST072419Z2	BS
24JUL19Z	3	04981-001-0001-OPR	OPR	24-JUL-19 12:59:50	ST072419Z1	ST072419Z2	BS
24JUL19Z	4	04981-001-0001-MB	Method Blank	24-JUL-19 13:58:11	ST072419Z1	ST072419Z2	BS
24JUL19Z	5	12532-001-0001-SA	LDW-Y2-SU-ENR-CA-CORE	24-JUL-19 14:56:56	ST072419Z1	ST072419Z2	BS
24JUL19Z	6	12532-002-0001-SA	LDW-Y2-SU-ENR-CB-CORE	24-JUL-19 15:55:37	ST072419Z1	ST072419Z2	BS
24JUL19Z	7	12532-003-0001-SA	LDW-Y2-SU-ENR-CC-CORE	24-JUL-19 16:53:59	ST072419Z1	ST072419Z2	BS
24JUL19Z	8	12532-004-0001-SA	LDW-Y2-SU-ENR+AC-CA-CORE	24-JUL-19 17:52:39	ST072419Z1	ST072419Z2	BS
24JUL19Z	9	12532-005-0001-SA	LDW-Y2-SU-ENR+AC-CB-CORE	24-JUL-19 18:51:01	ST072419Z1	ST072419Z2	BS
24JUL19Z	10	12532-006-0001-SA	LDW-Y2-SU-ENR+AC-CC-CORE	24-JUL-19 19:49:47	ST072419Z1	ST072419Z2	BS
24JUL19Z	11	12532-007-0001-SA	LDW-Y2-IN-ENR-CA-CORE	24-JUL-19 20:48:09	ST072419Z1	ST072419Z2	BS
24JUL19Z	12	12532-008-0001-SA	LDW-Y2-IN-ENR-CB-CORE	24-JUL-19 21:46:30	ST072419Z1	ST072419Z2	BS
24JUL19Z	13	12532-009-0001-SA	LDW-Y2-IN-ENR-CE-CORE	24-JUL-19 22:44:51	ST072419Z1	ST072419Z2	BS
24JUL19Z	14	12532-010-0001-SA	LDW-Y2-IN-ENR+AC-CA-CORE	24-JUL-19 23:43:12	ST072419Z1	ST072419Z2	BS
24JUL19Z	15	SB072419Z1	Solvent Blank	25-JUL-19 00:41:33	ST072419Z1	ST072419Z2	BS
24JUL19Z	16	ST072419Z2	1668 CS3 R181204D	25-JUL-19 01:40:20	ST072419Z1	ST072419Z2	BS

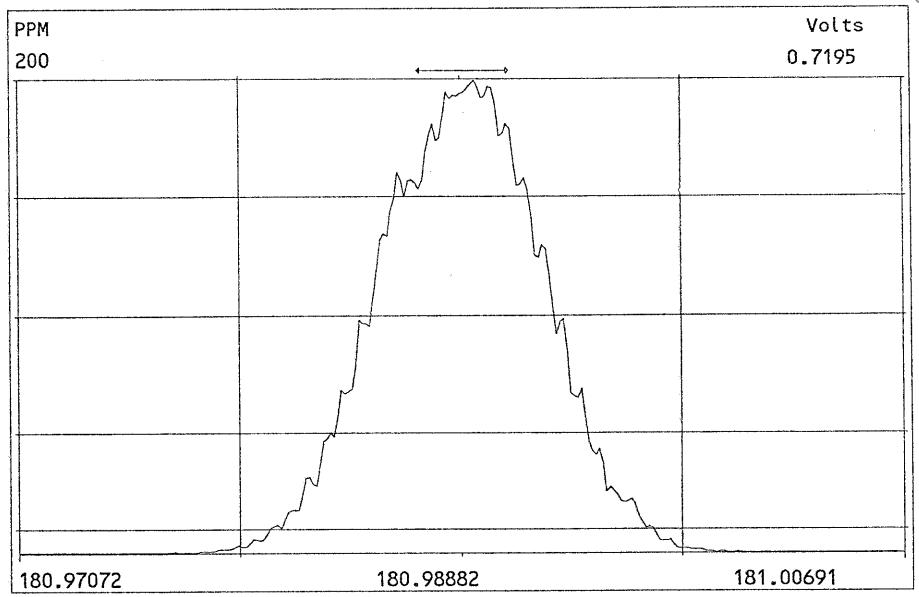
k 7/25/19

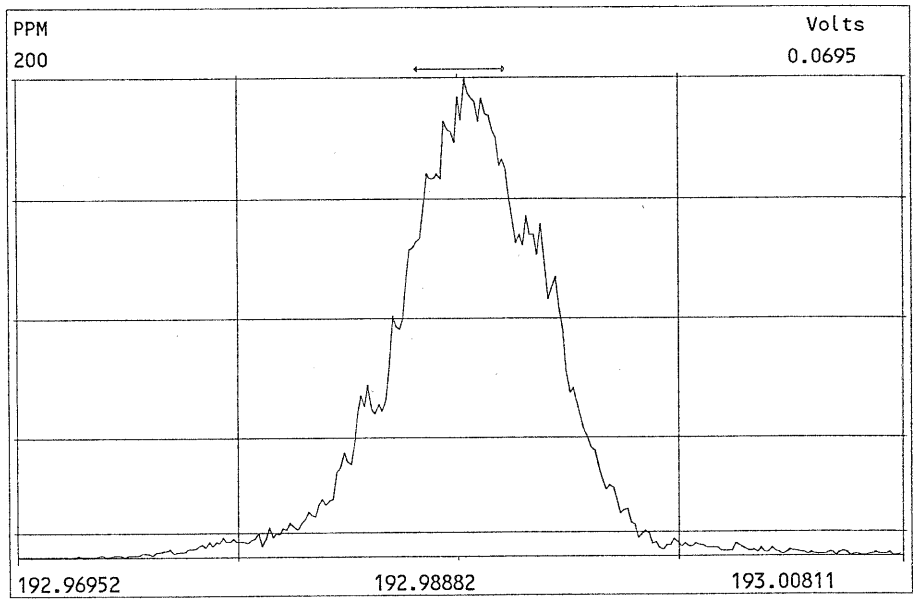
Data Backed Up:_____

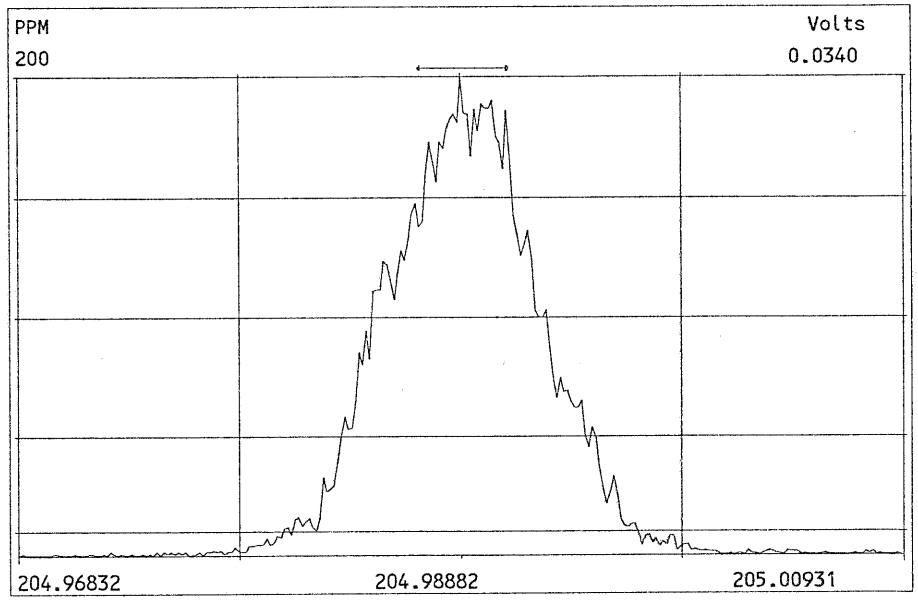
Date:_____

Peak Locate Examination:24-JUL-2019:11:00 File:24JUL19Z
Experiment:1668PCB Function:1 Reference:PFK

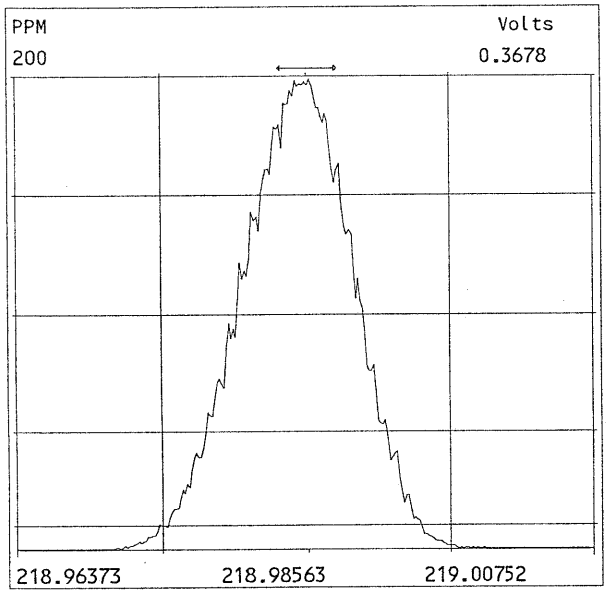


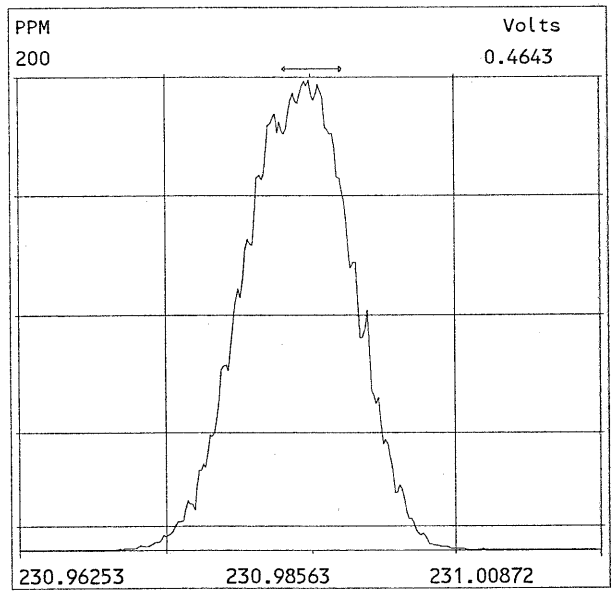


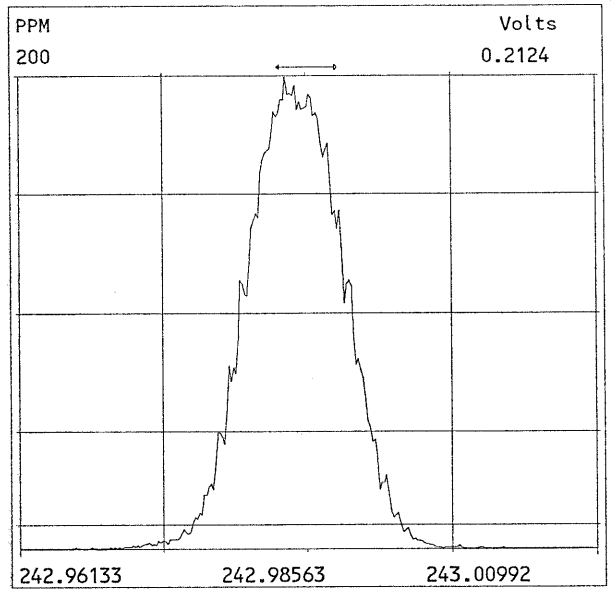


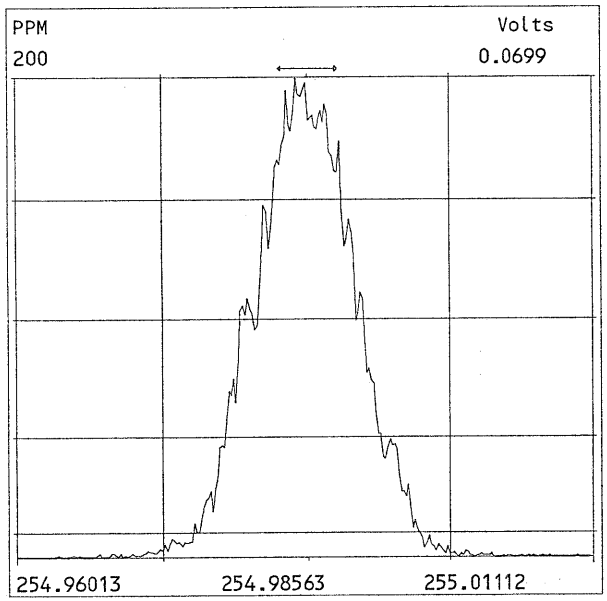


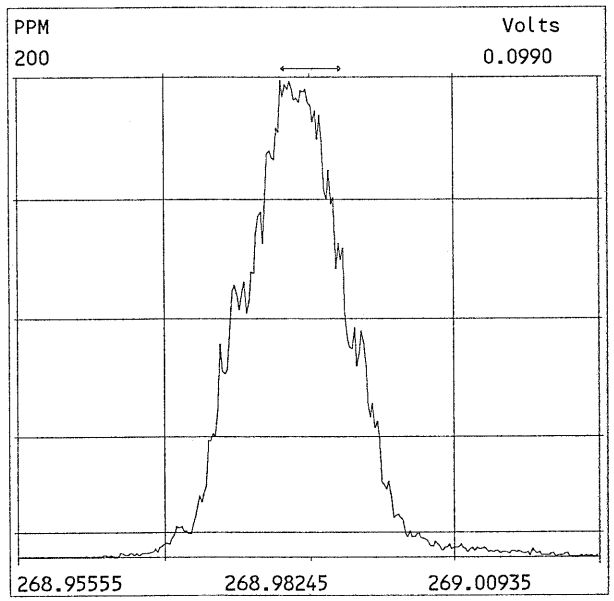
Peak Locate Examination:24-JUL-2019:11:00 File:24JUL19Z
Experiment:1668PCB Function:2 Reference:PFK

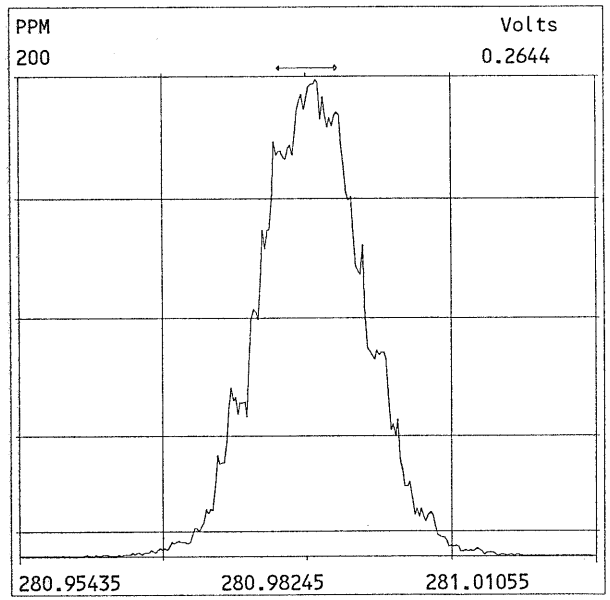




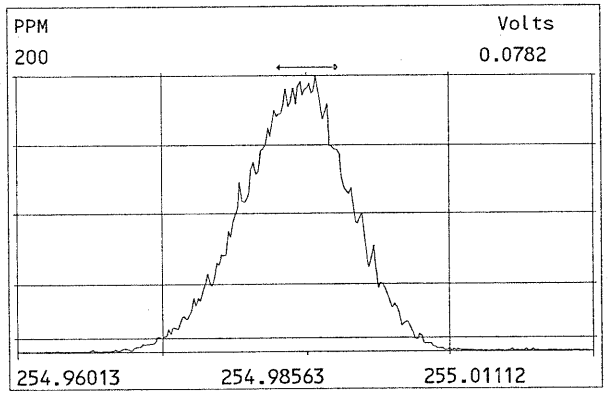


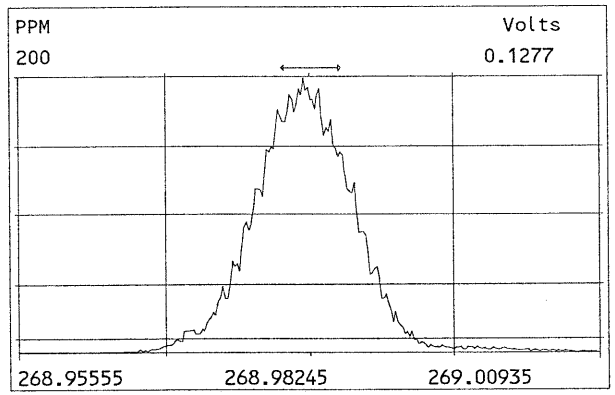


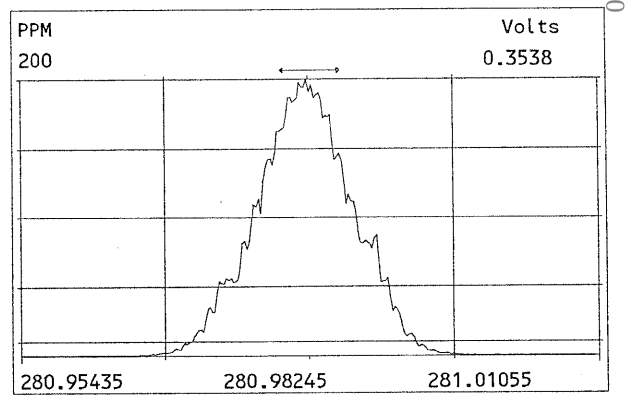


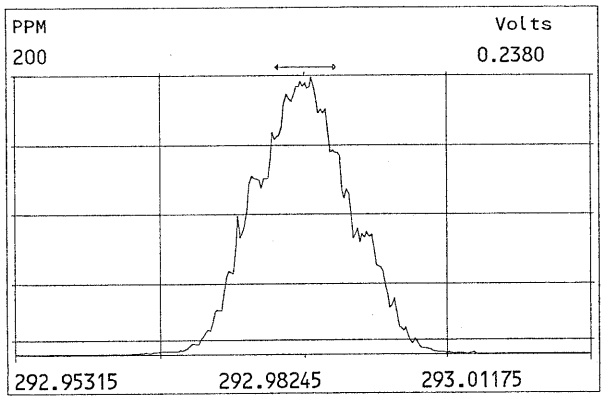


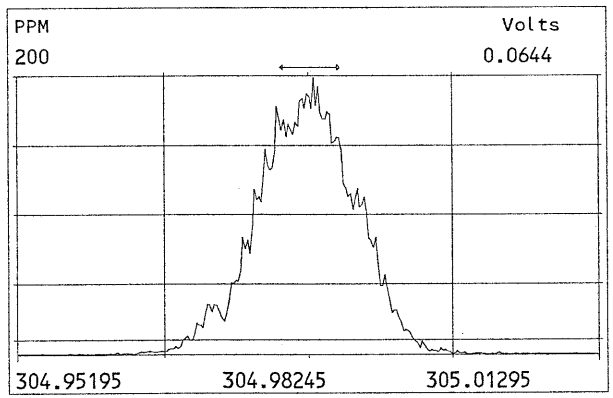
Peak Locate Examination:24-JUL-2019:11:01 File:24JUL19Z
Experiment:1668PCB Function:3 Reference:PFK

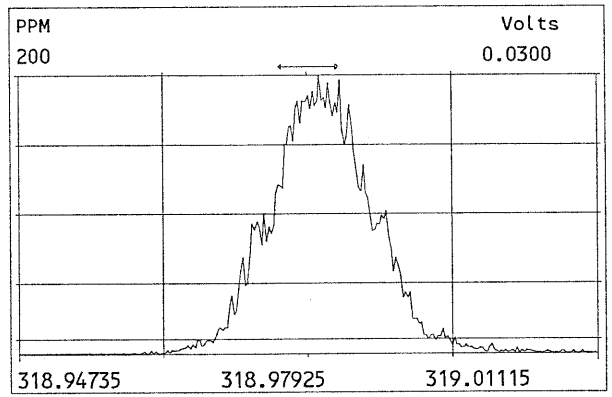


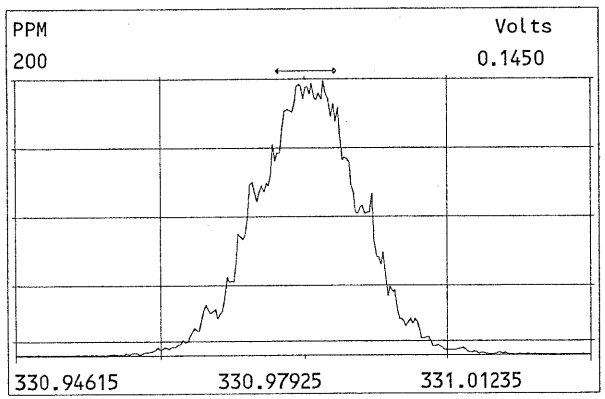


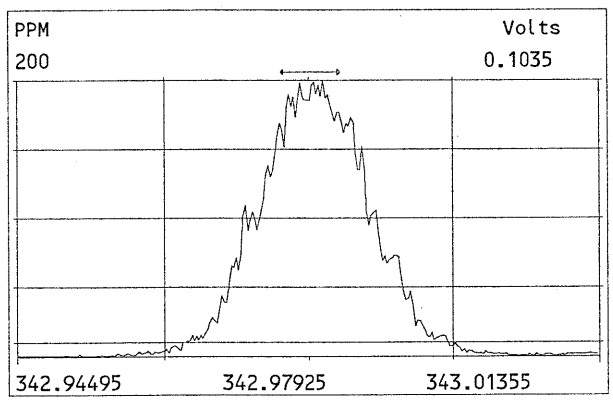




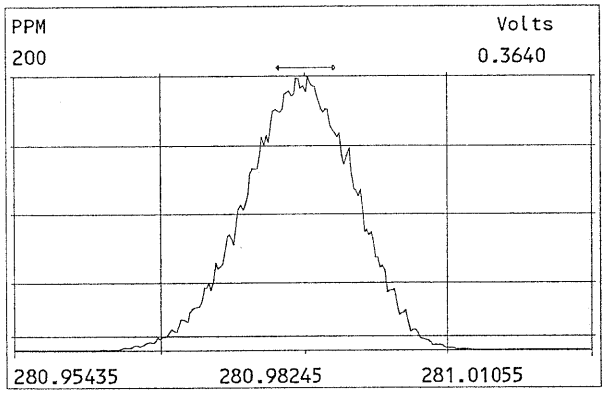


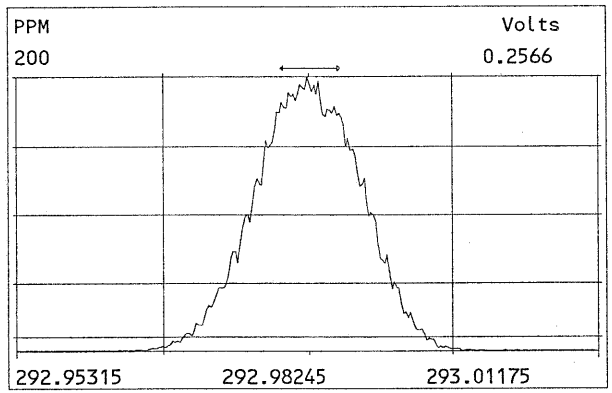


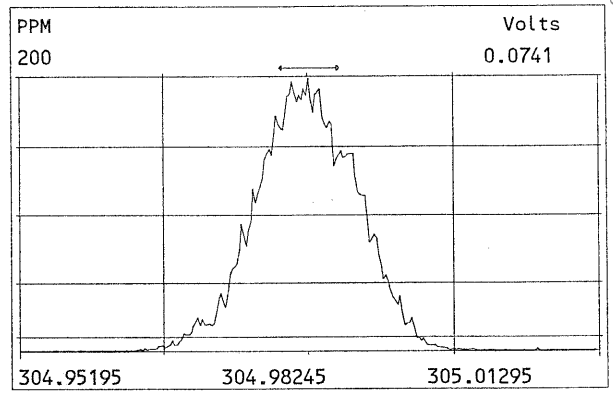


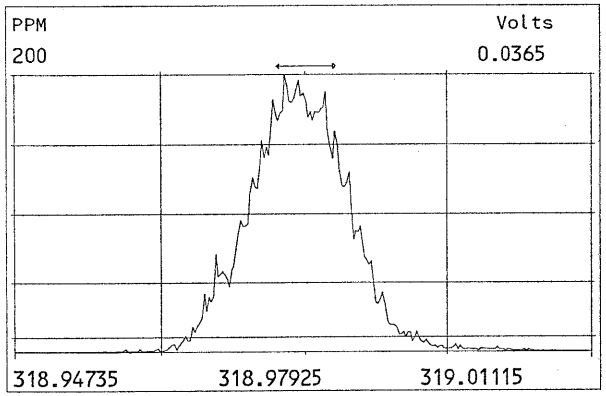


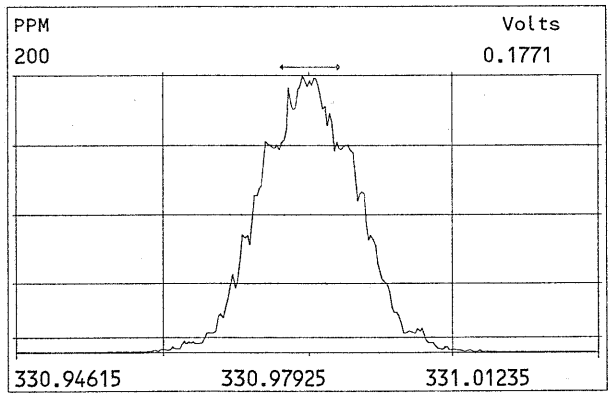
Peak Locate Examination:24-JUL-2019:11:01 File:24JUL19Z
Experiment:1668PCB Function:4 Reference:PFK

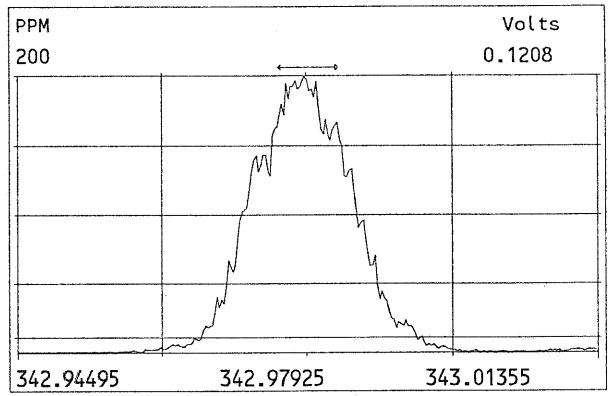


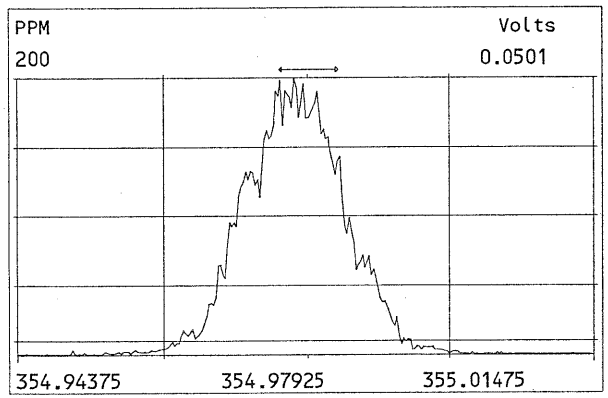


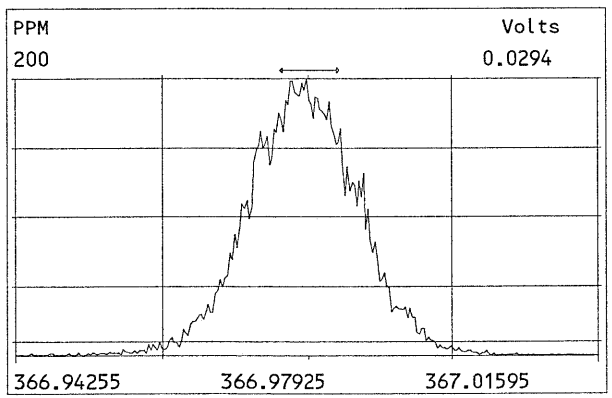


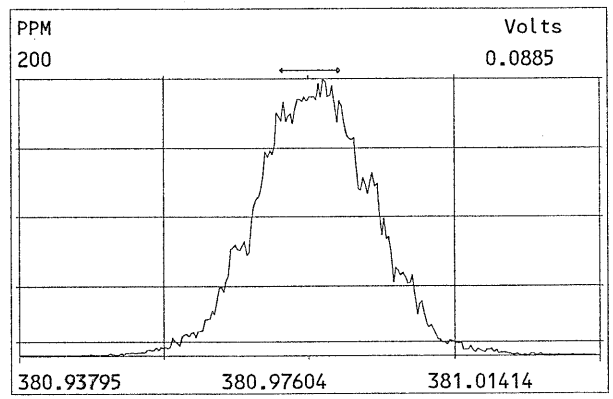




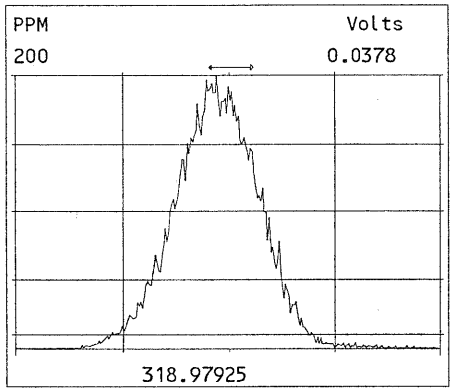


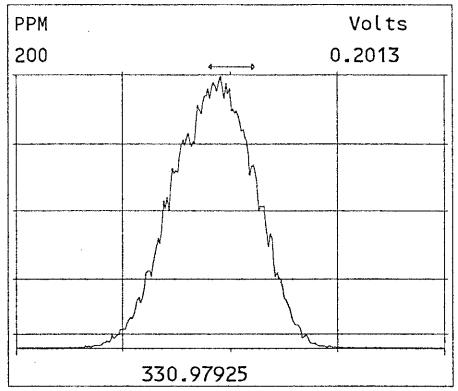


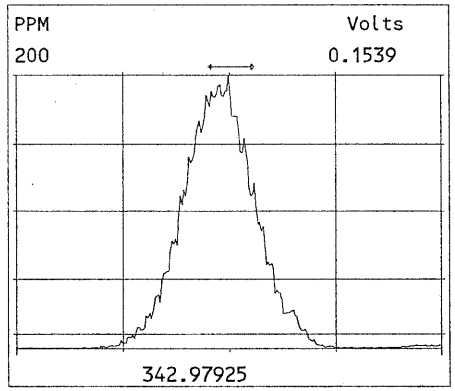


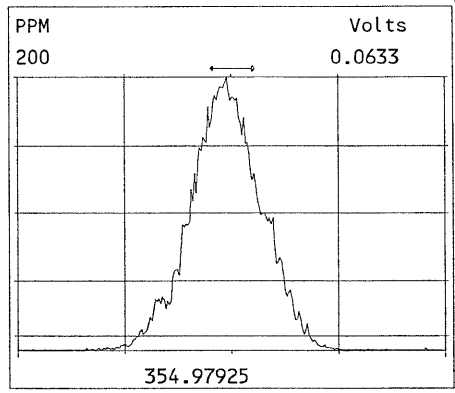


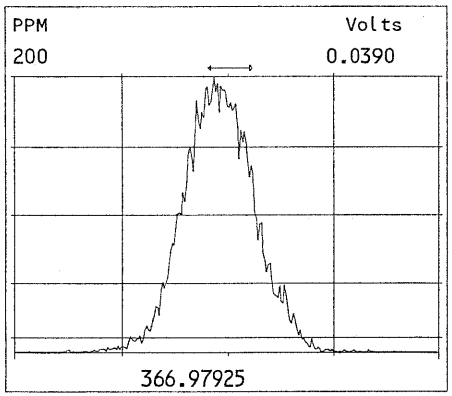
Peak Locate Examination:24-JUL-2019:11:02 File:24JUL19Z
Experiment:1668PCB Function:5 Reference:PFK

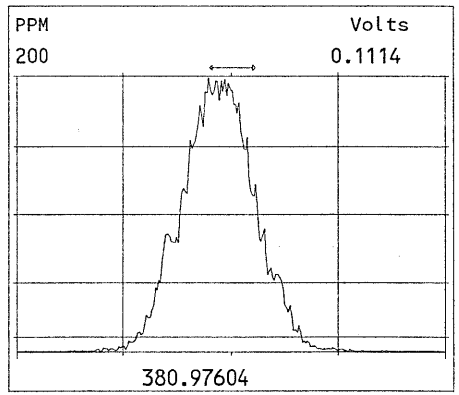


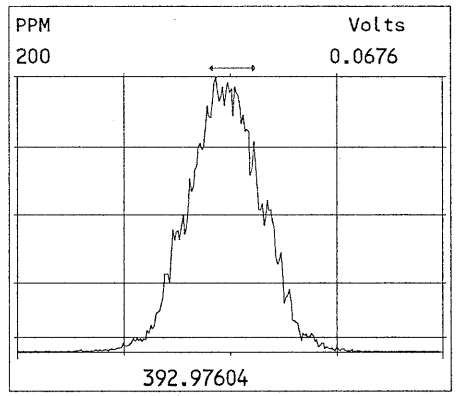


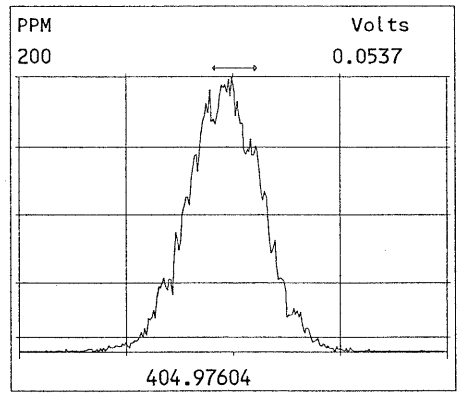


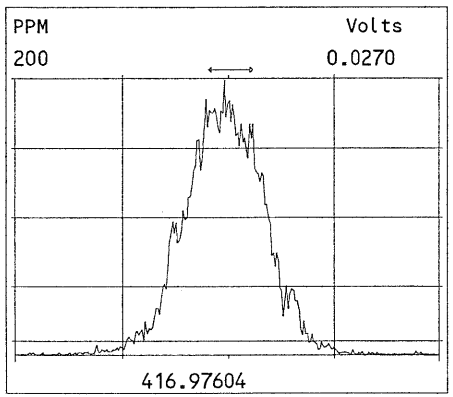


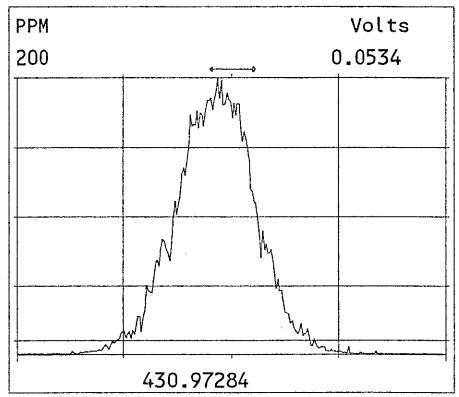


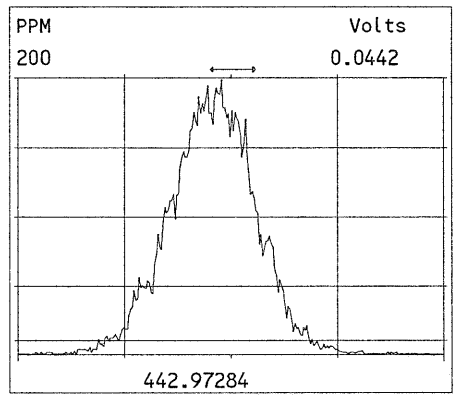




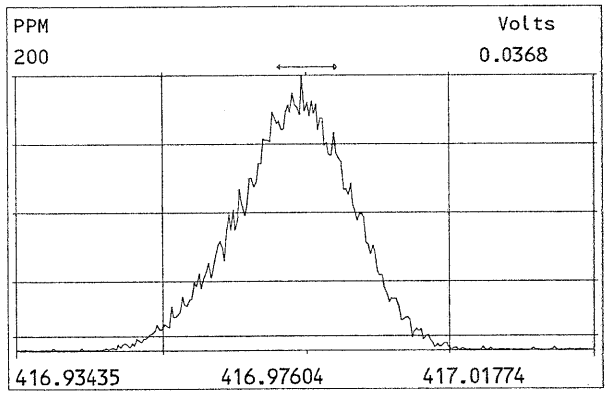


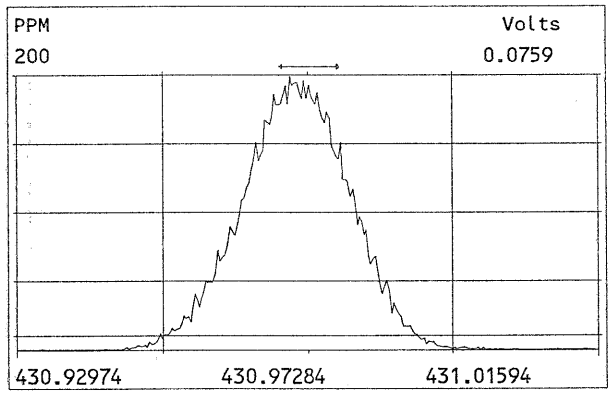


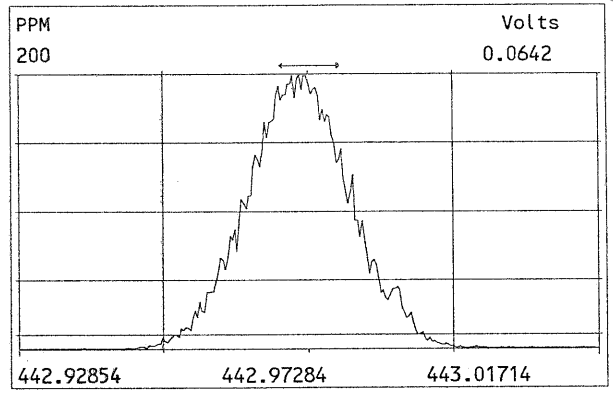


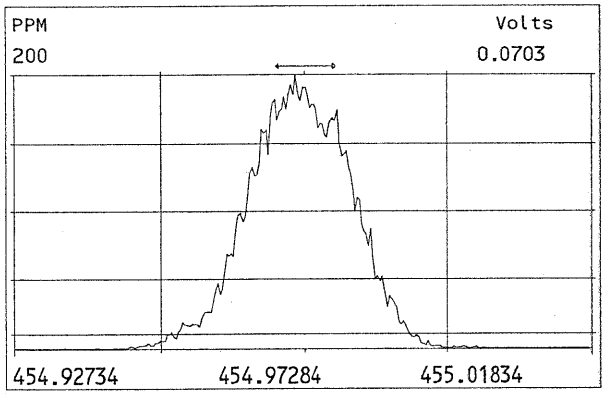


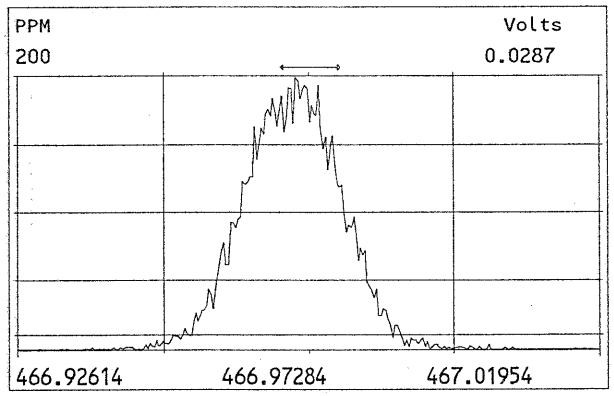
Peak Locate Examination:24-JUL-2019:11:02 File:24JUL19Z
Experiment:1668PCB Function:6 Reference:PFK

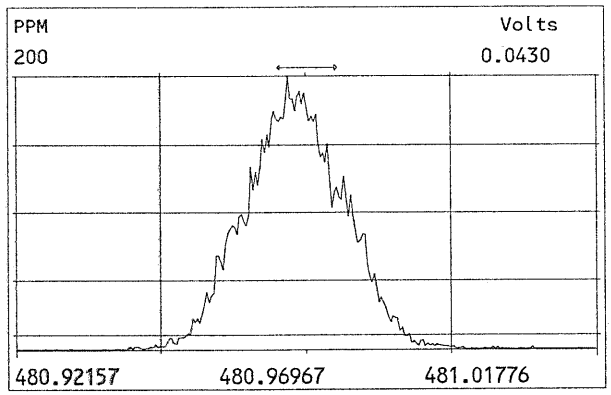


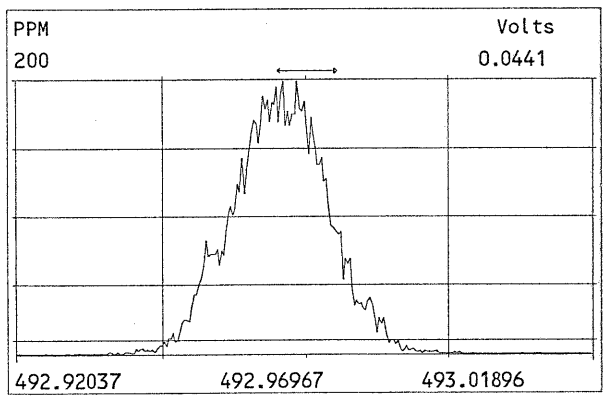


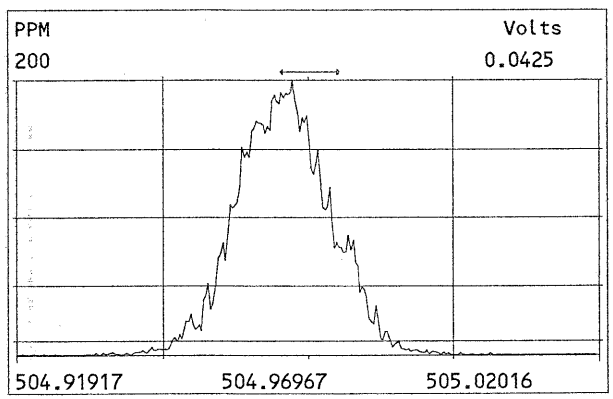


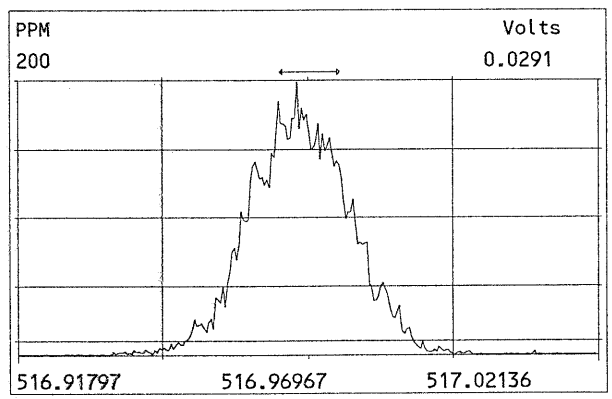




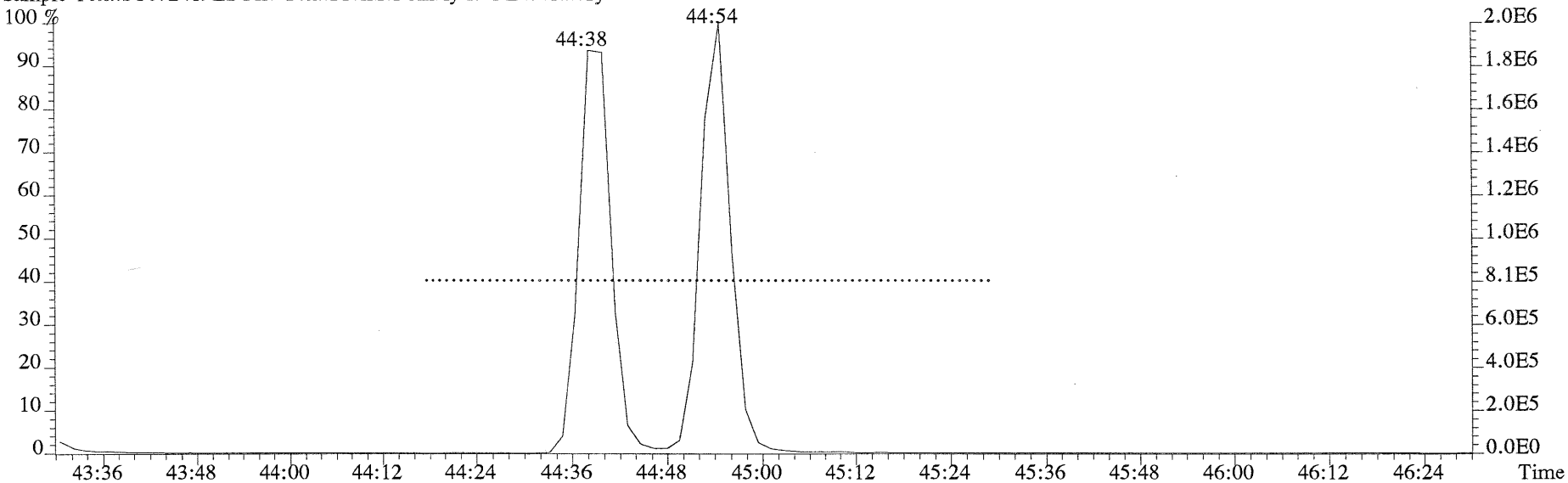




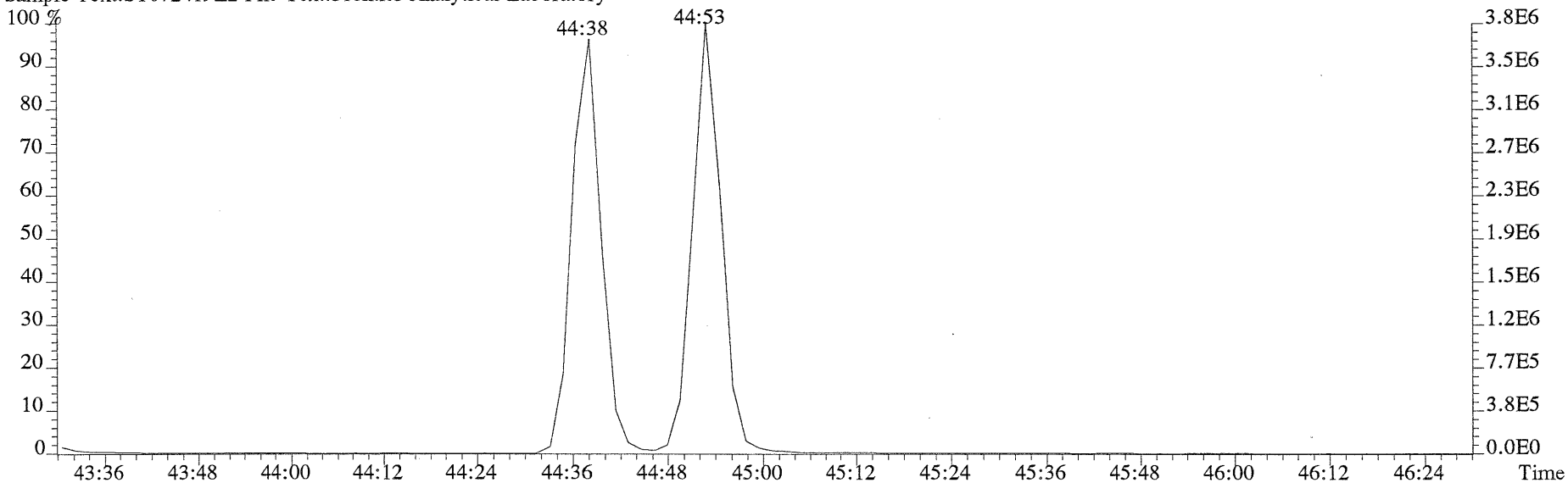




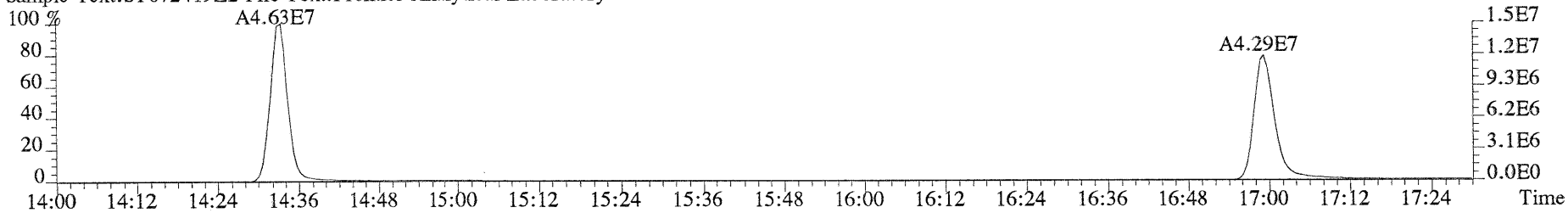
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



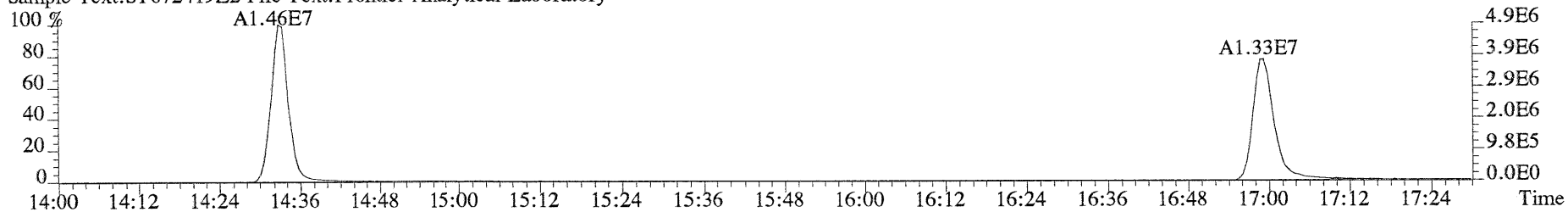
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



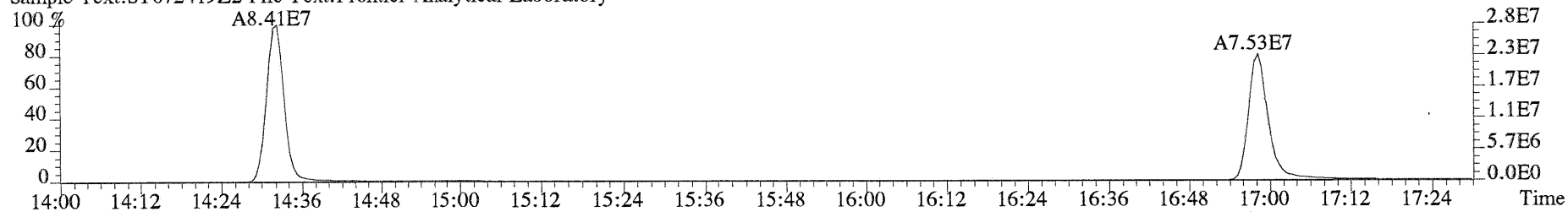
File:24JUL19Z #1-783 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



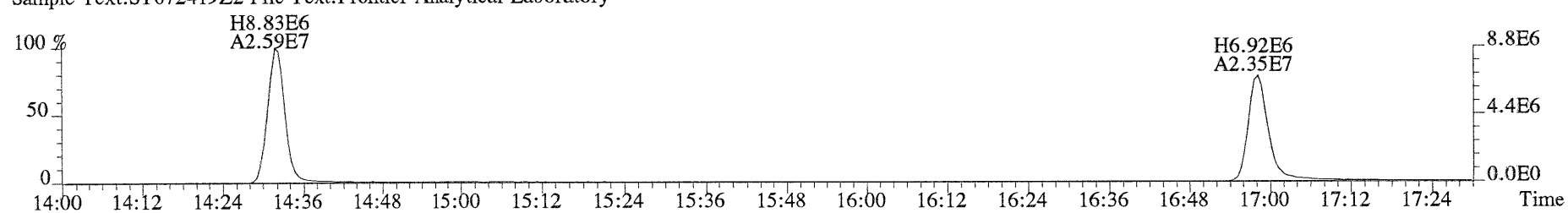
File:24JUL19Z #1-783 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



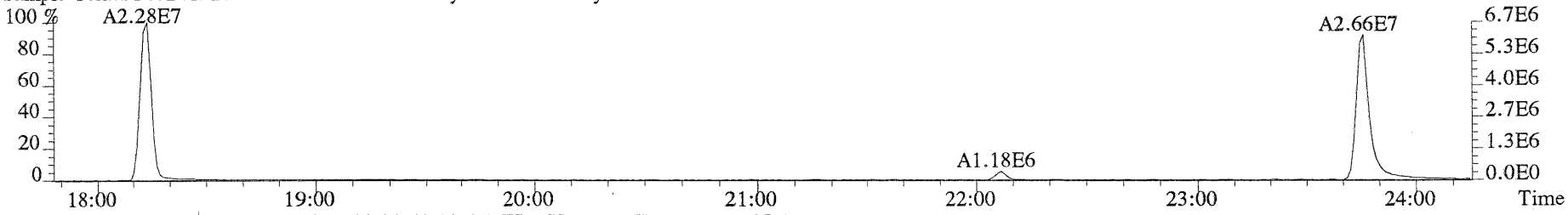
File:24JUL19Z #1-783 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



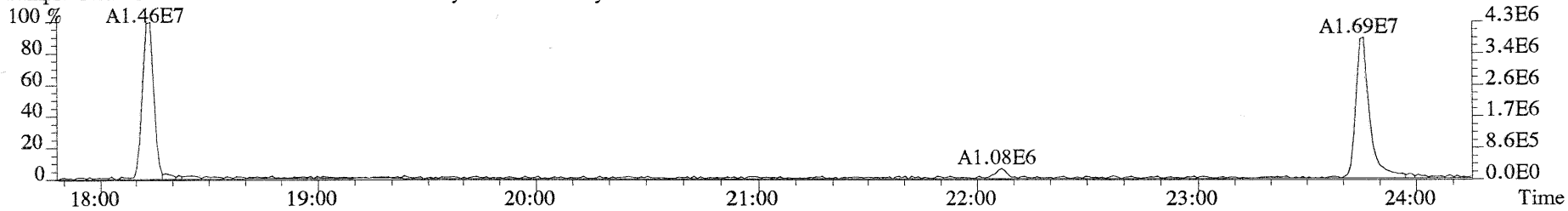
File:24JUL19Z #1-783 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



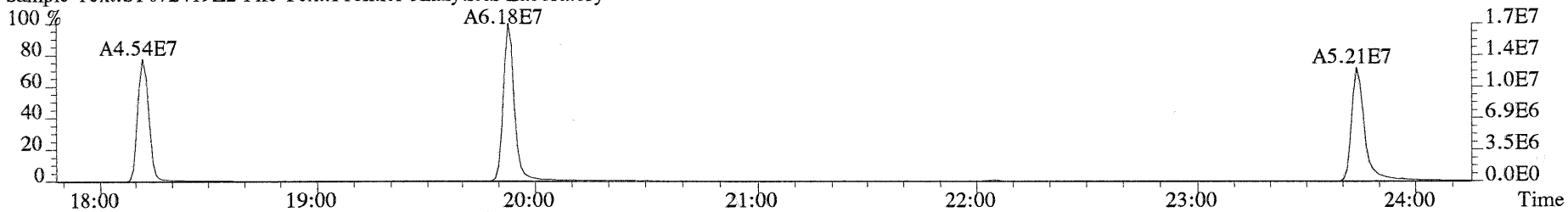
File:24JUL19Z #1-521 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



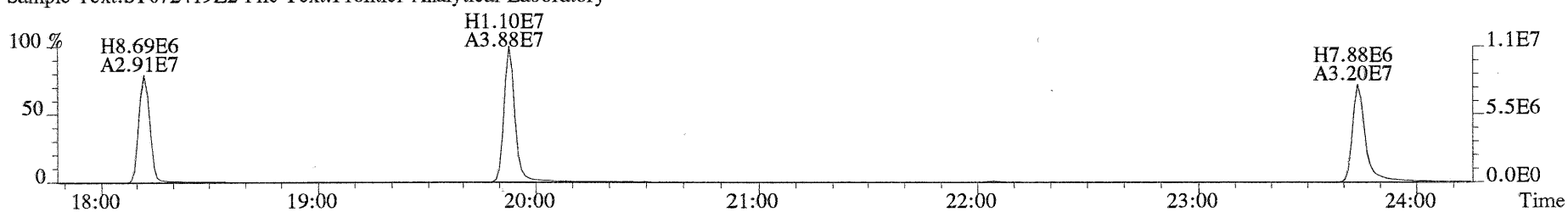
File:24JUL19Z #1-521 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



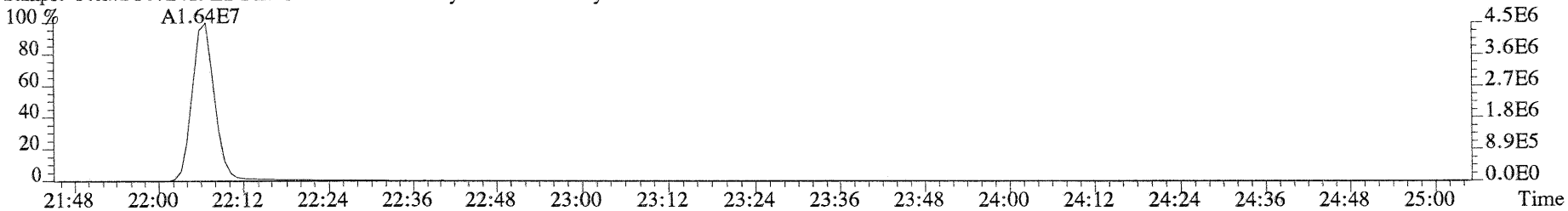
File:24JUL19Z #1-521 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



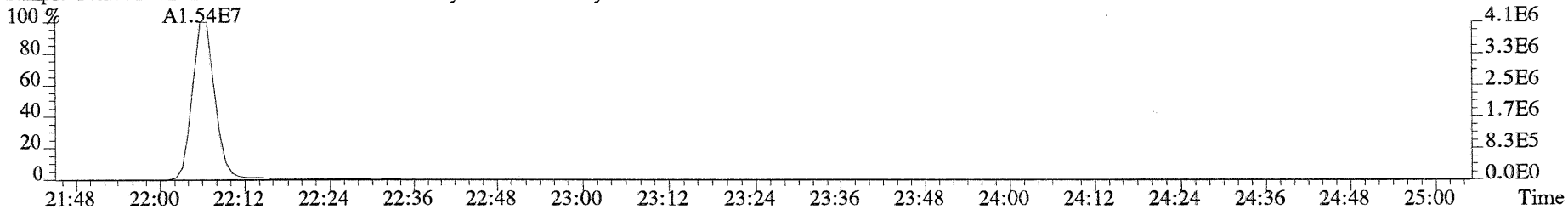
File:24JUL19Z #1-521 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



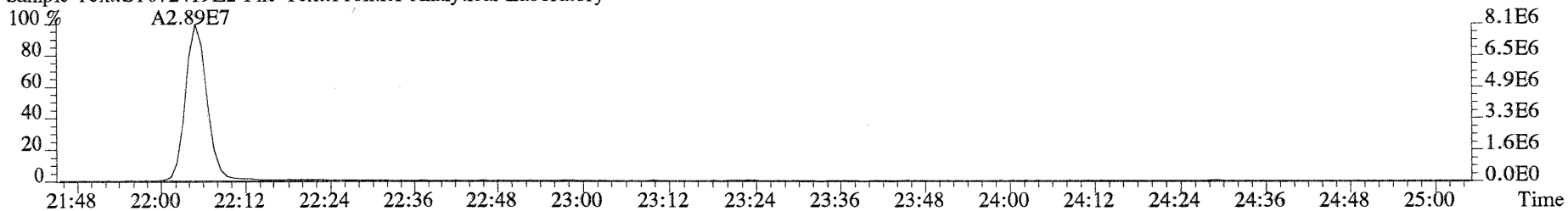
File:24JUL19Z #1-521 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



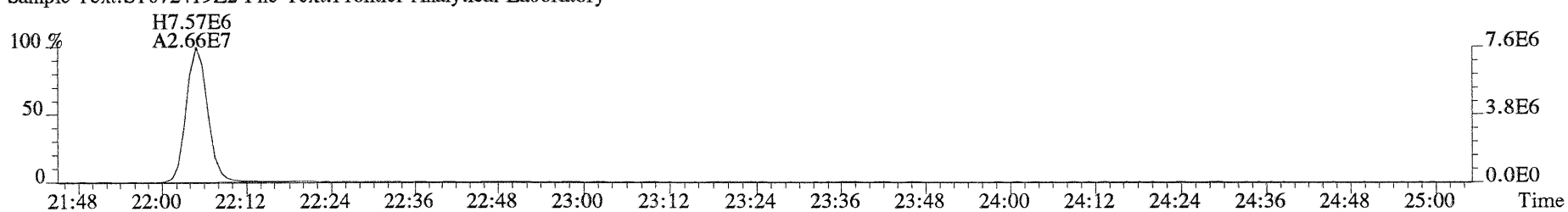
File:24JUL19Z #1-521 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



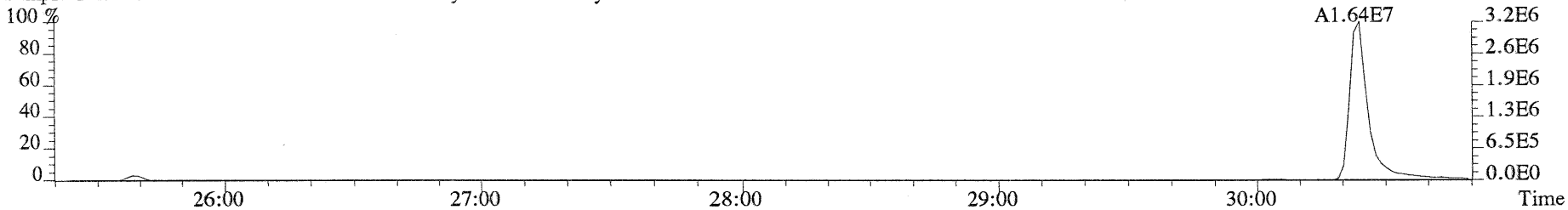
File:24JUL19Z #1-521 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



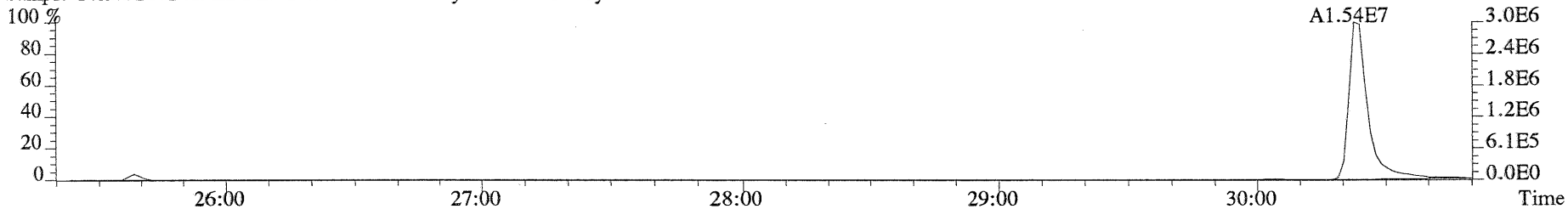
File:24JUL19Z #1-521 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



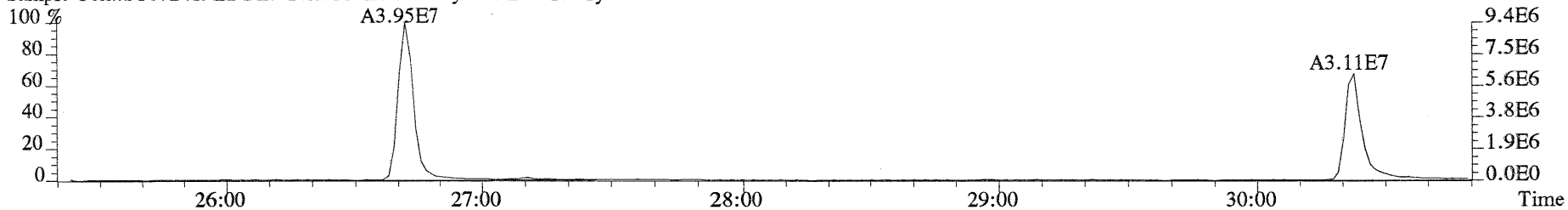
File:24JUL19Z #1-401 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



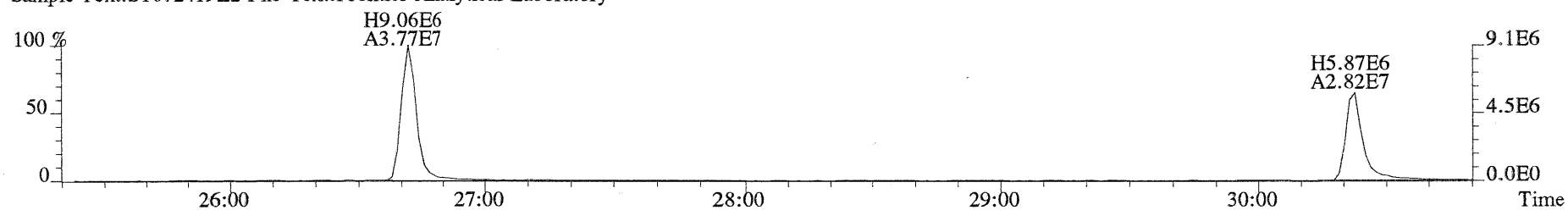
File:24JUL19Z #1-401 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



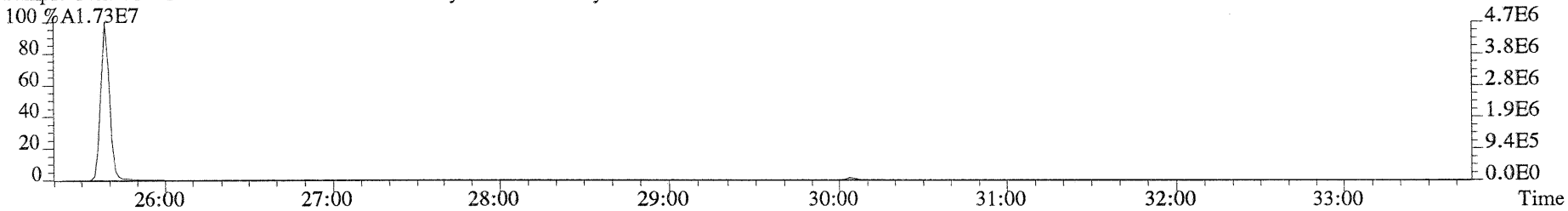
File:24JUL19Z #1-401 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



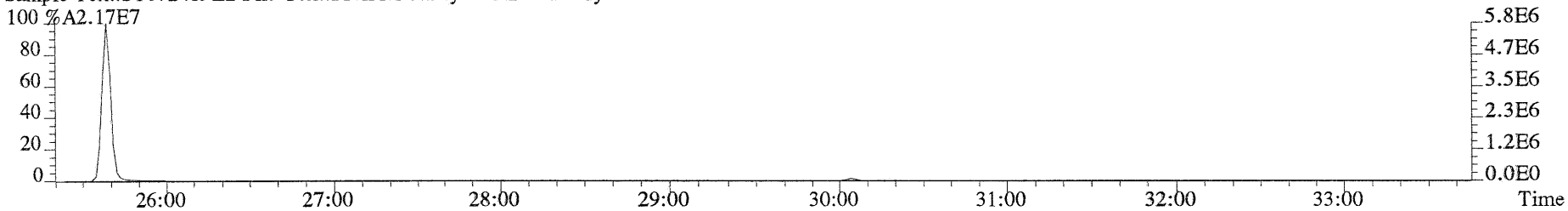
File:24JUL19Z #1-401 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



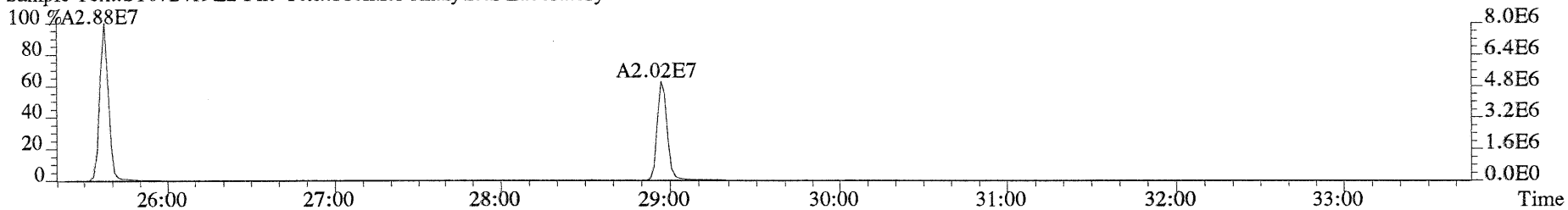
File:24JUL19Z #1-401 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



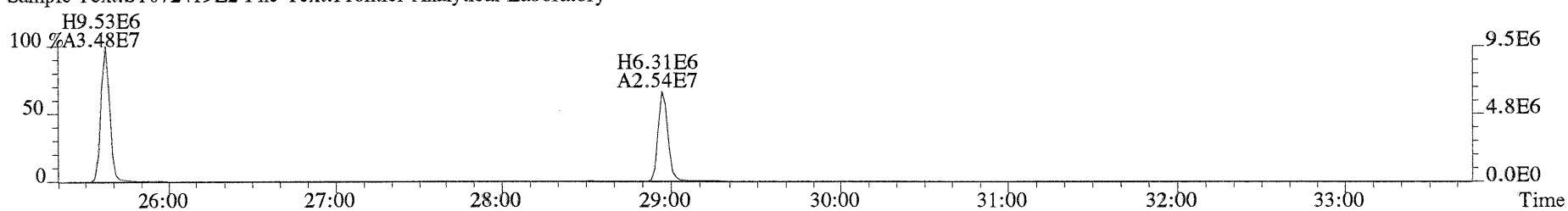
File:24JUL19Z #1-401 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



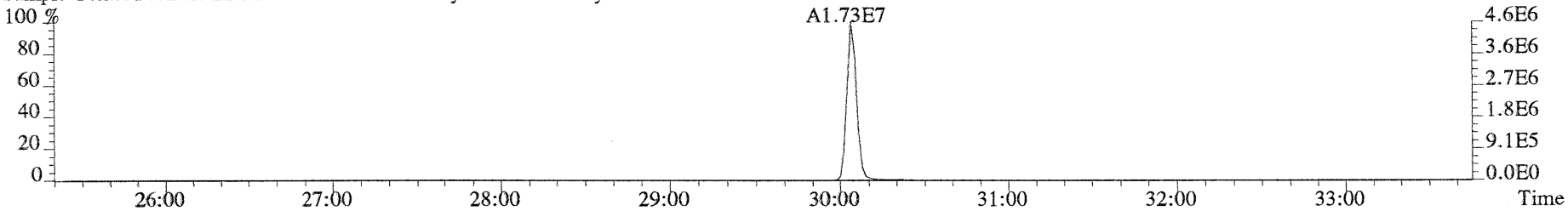
File:24JUL19Z #1-401 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



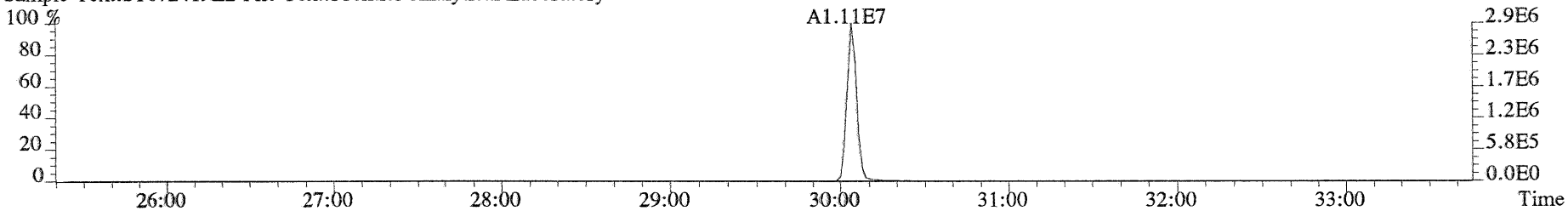
File:24JUL19Z #1-401 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



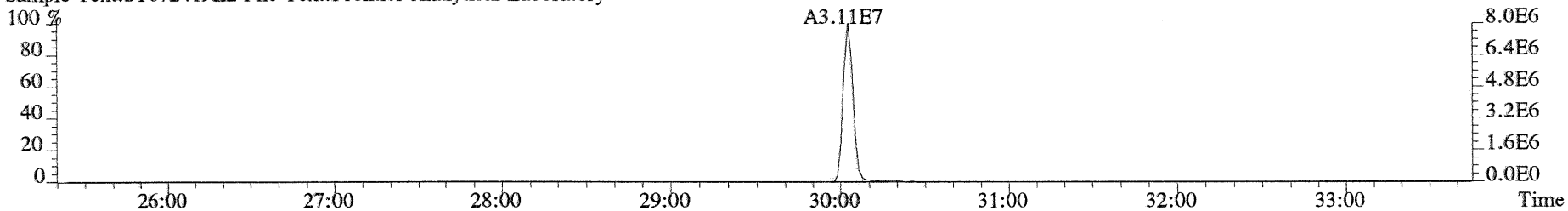
File:24JUL19Z #1-401 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



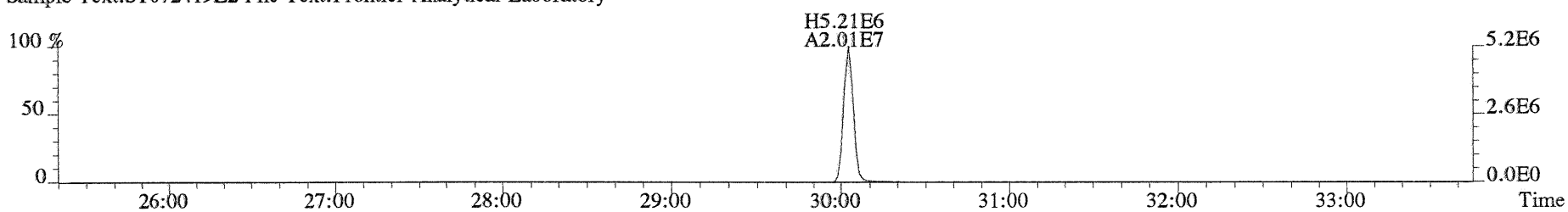
File:24JUL19Z #1-401 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



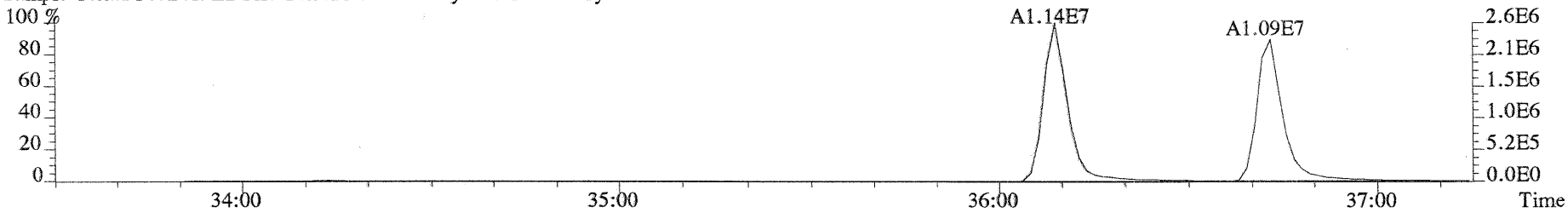
File:24JUL19Z #1-401 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



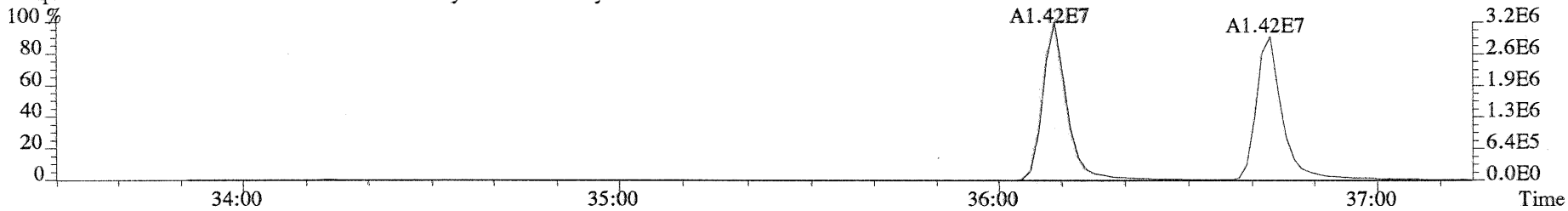
File:24JUL19Z #1-401 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



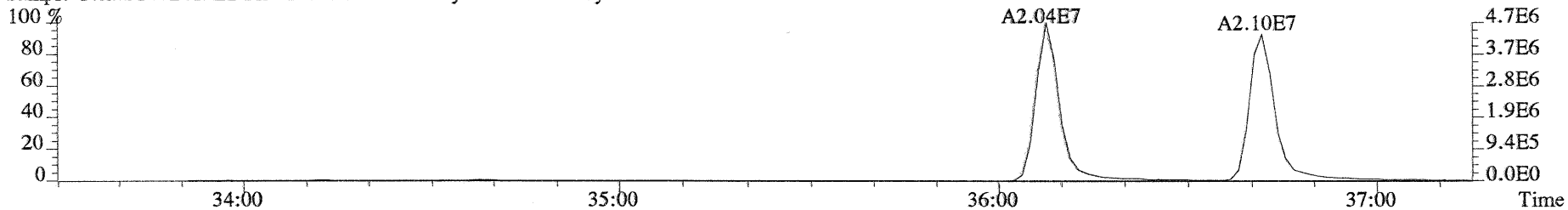
File:24JUL19Z #1-180 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



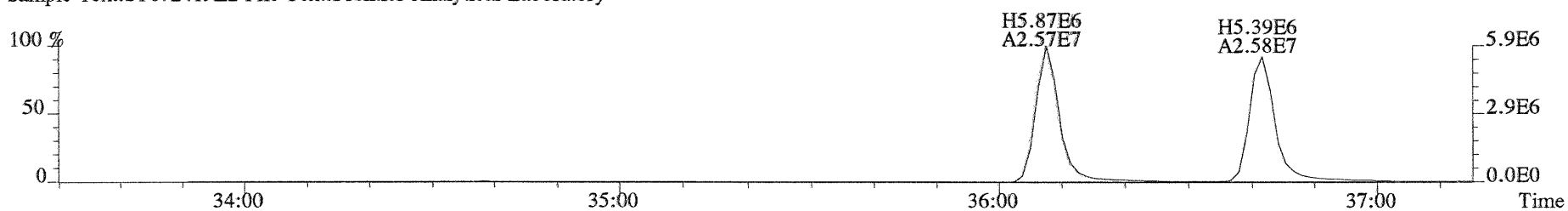
File:24JUL19Z #1-180 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



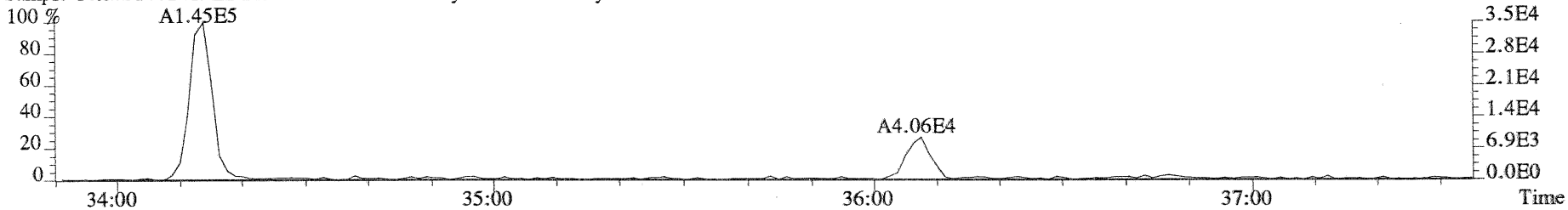
File:24JUL19Z #1-180 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



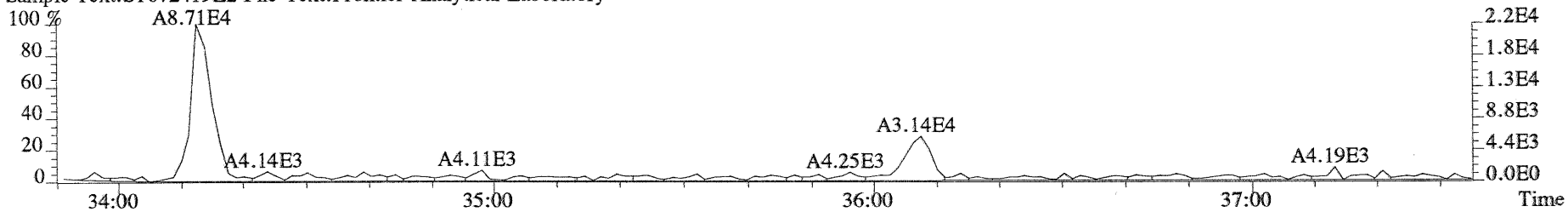
File:24JUL19Z #1-180 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



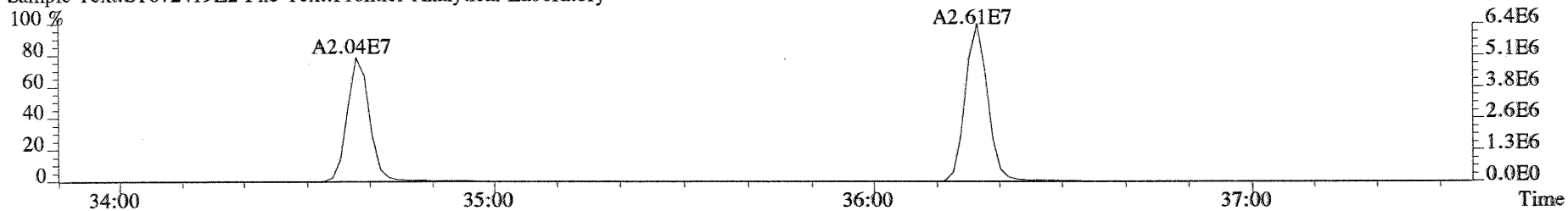
File:24JUL19Z #1-180 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



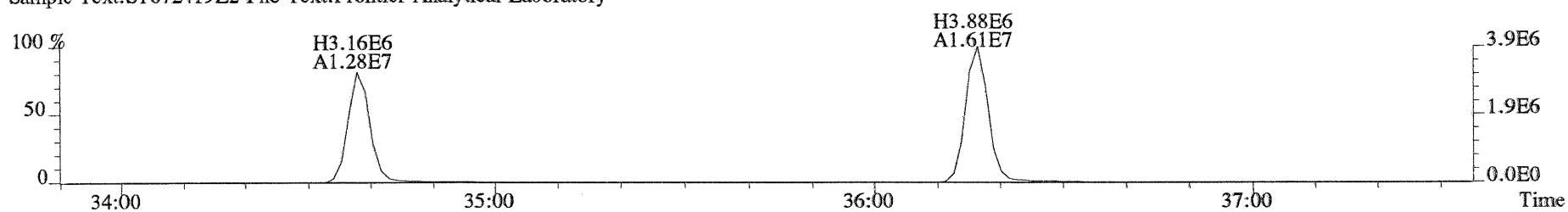
File:24JUL19Z #1-180 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



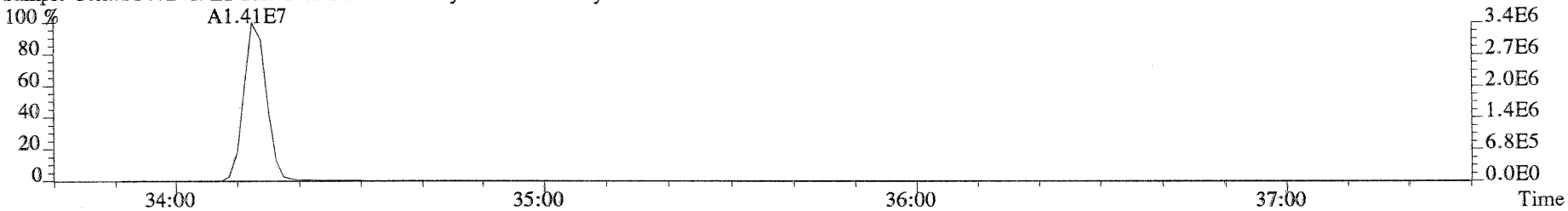
File:24JUL19Z #1-180 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



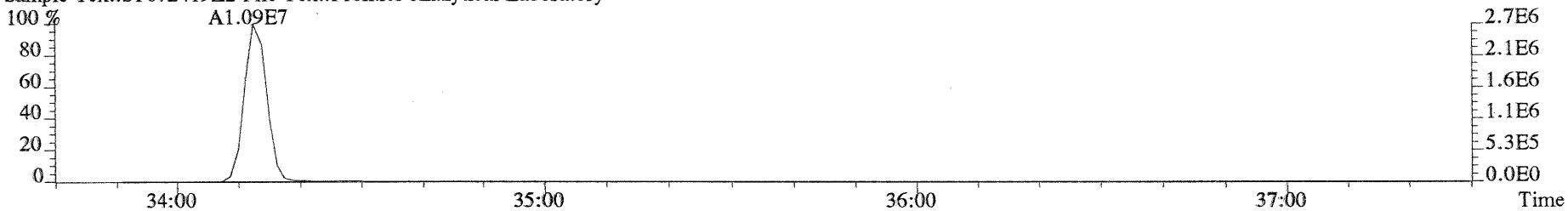
File:24JUL19Z #1-180 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



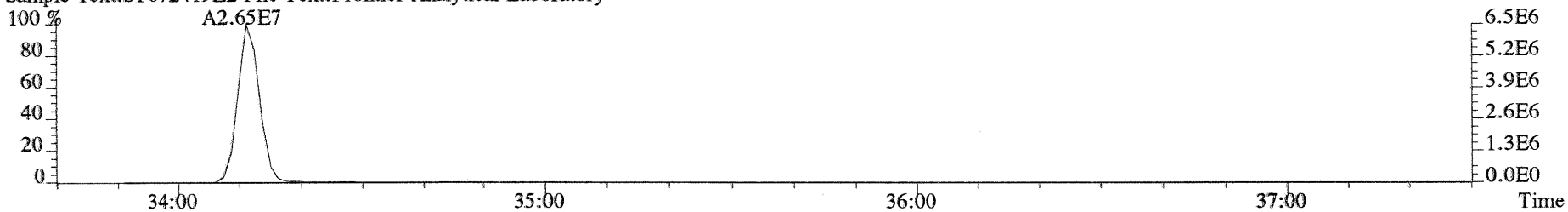
File:24JUL19Z #1-180 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



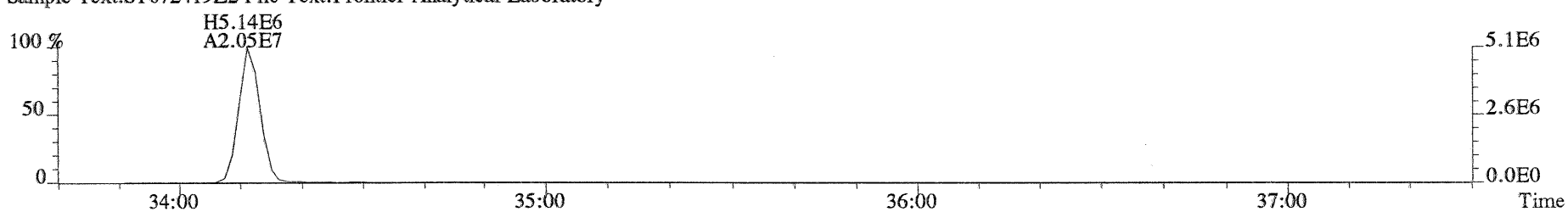
File:24JUL19Z #1-180 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



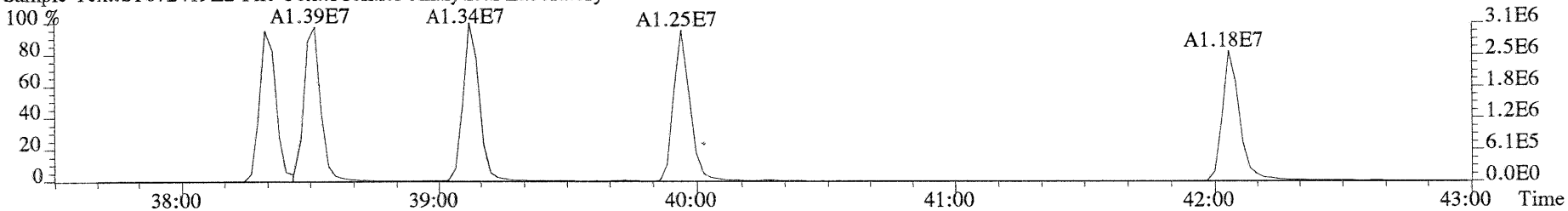
File:24JUL19Z #1-180 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



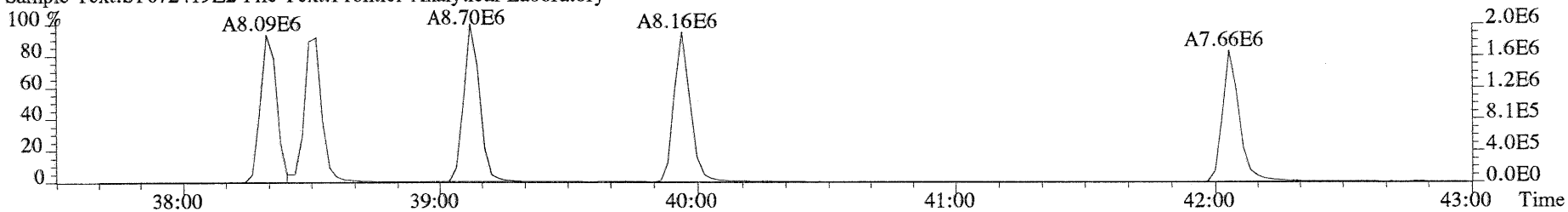
File:24JUL19Z #1-180 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



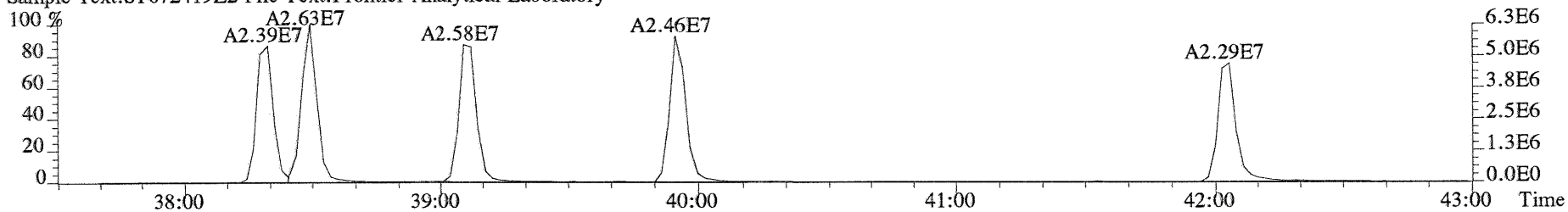
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



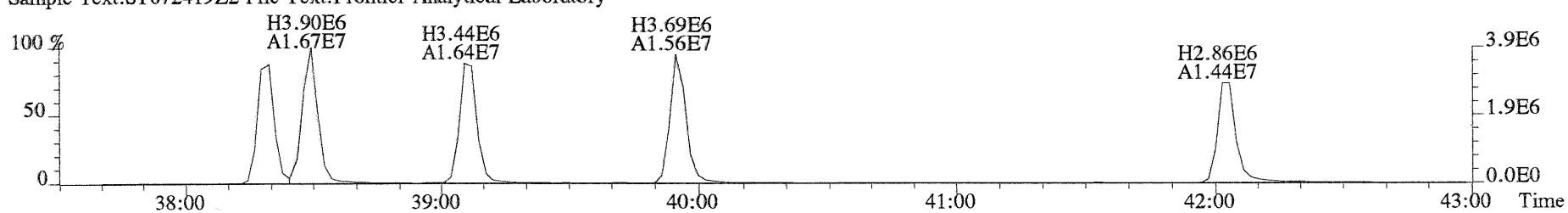
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



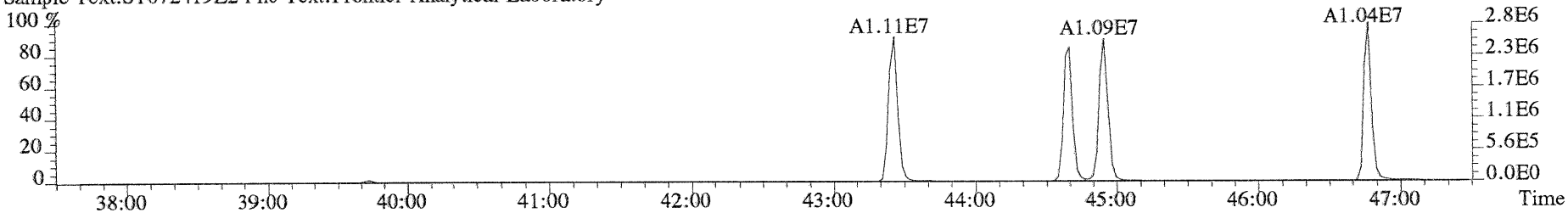
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



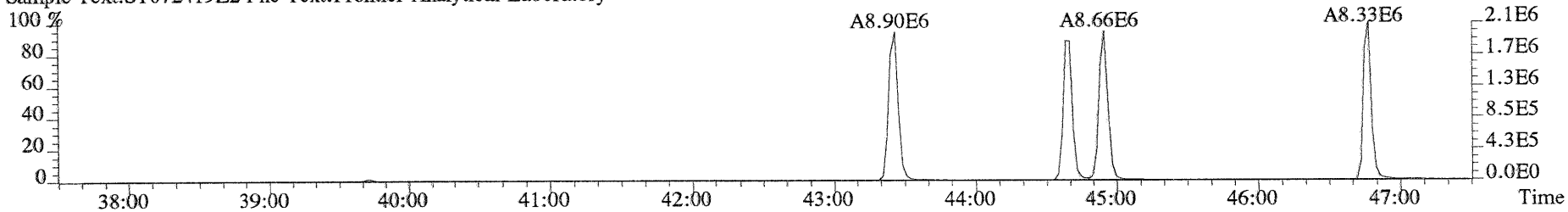
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



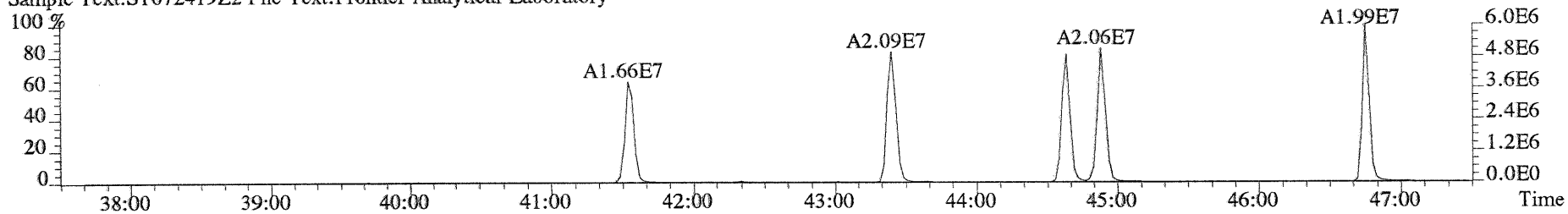
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



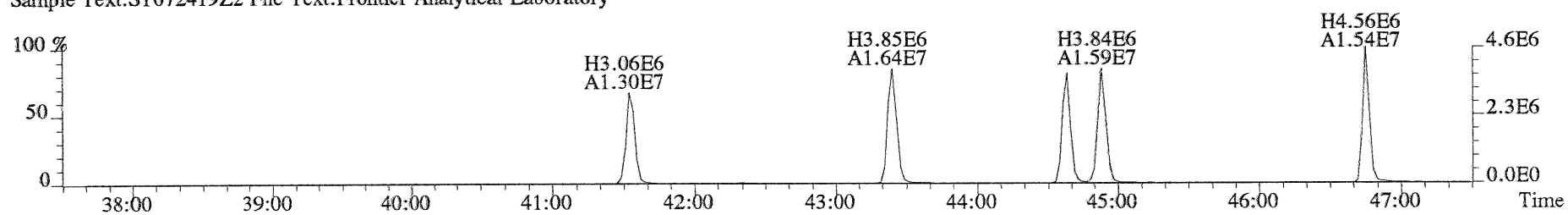
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



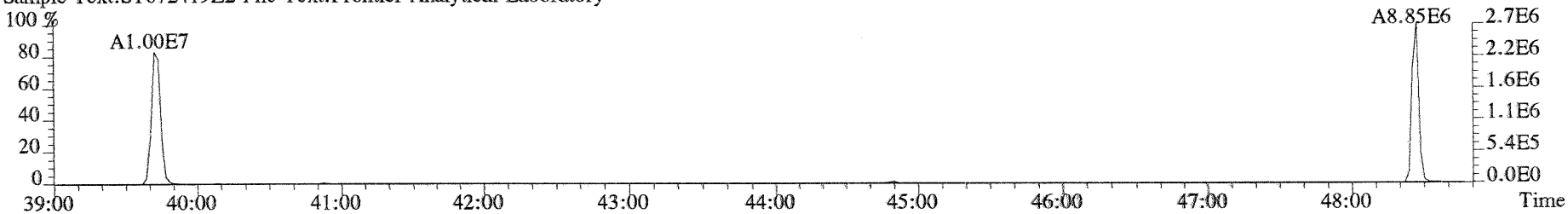
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



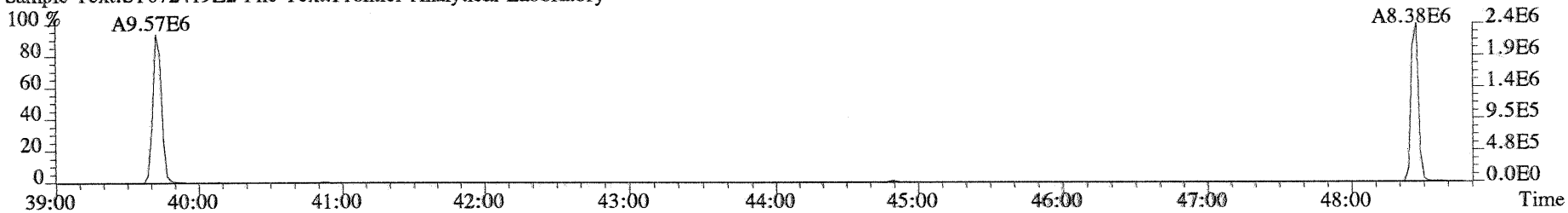
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



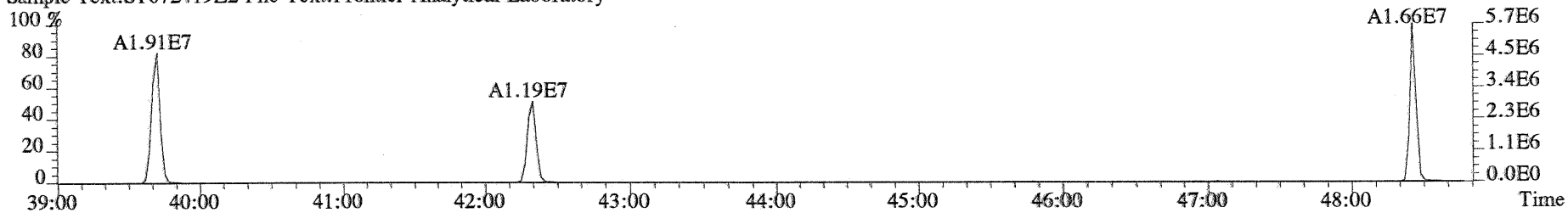
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



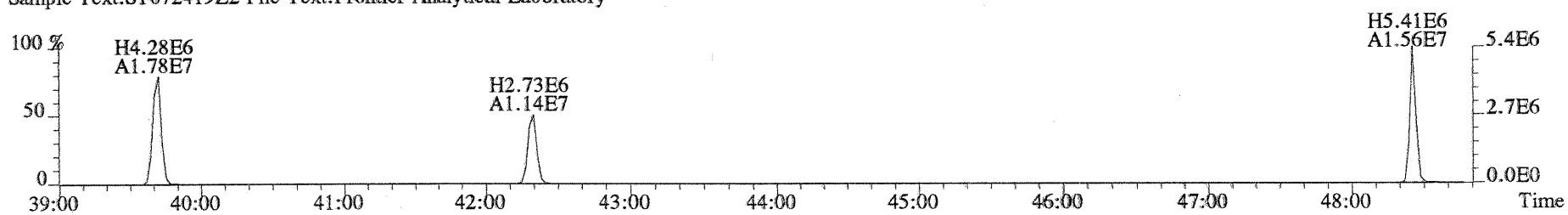
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



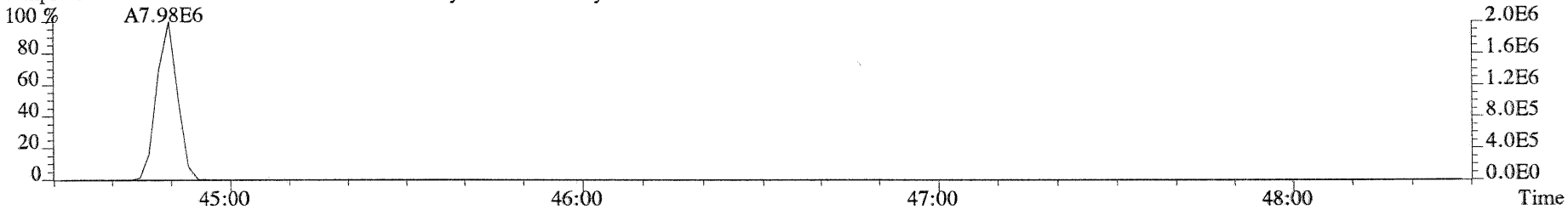
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



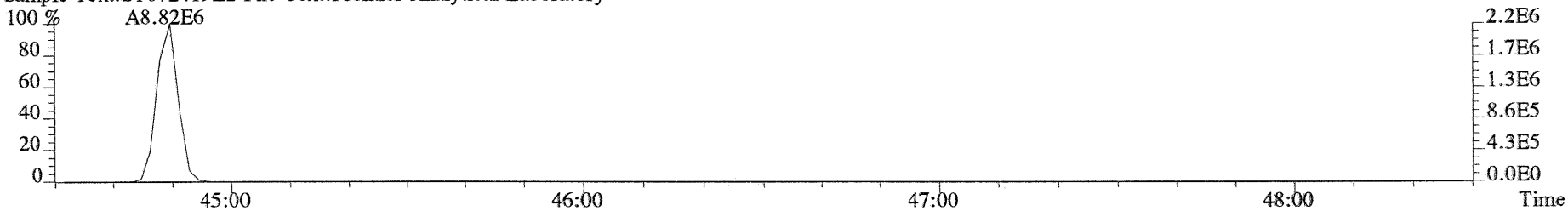
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



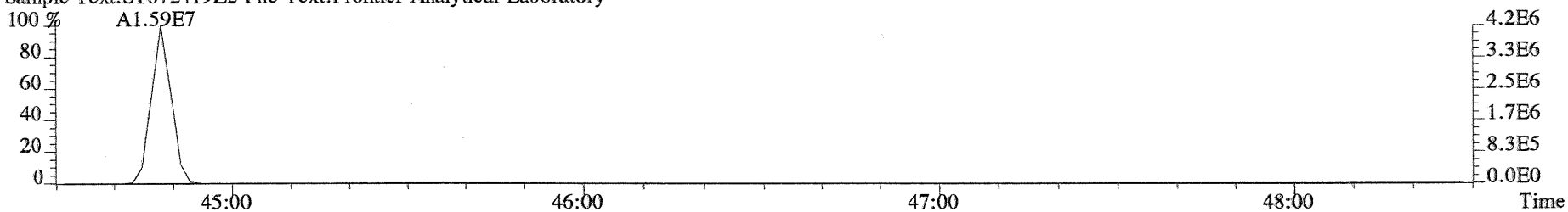
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



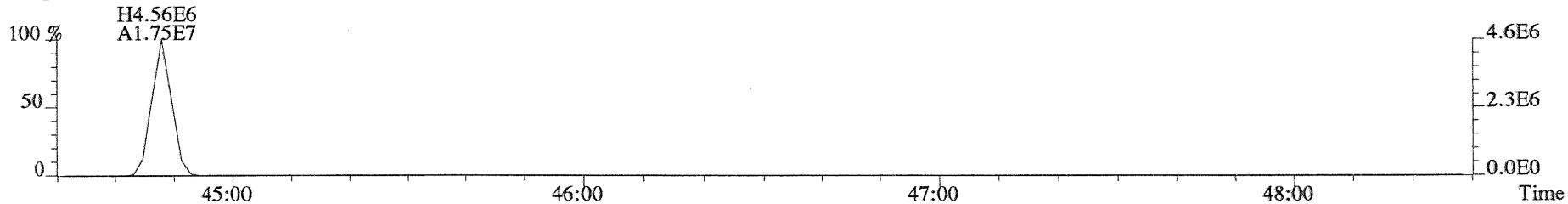
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



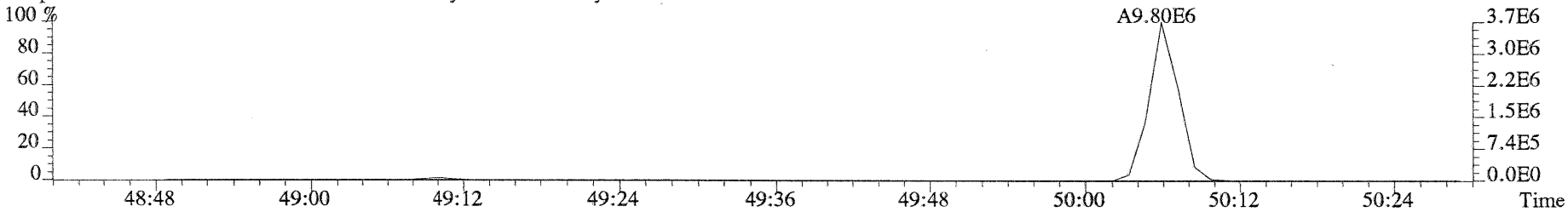
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



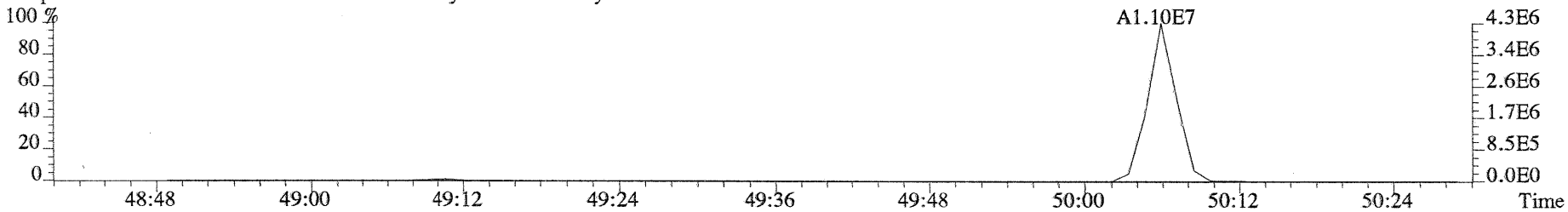
File:24JUL19Z #1-406 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



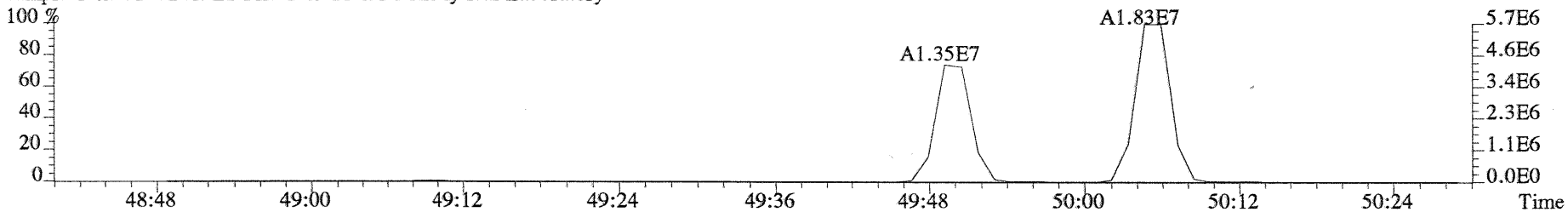
File:24JUL19Z #1-314 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



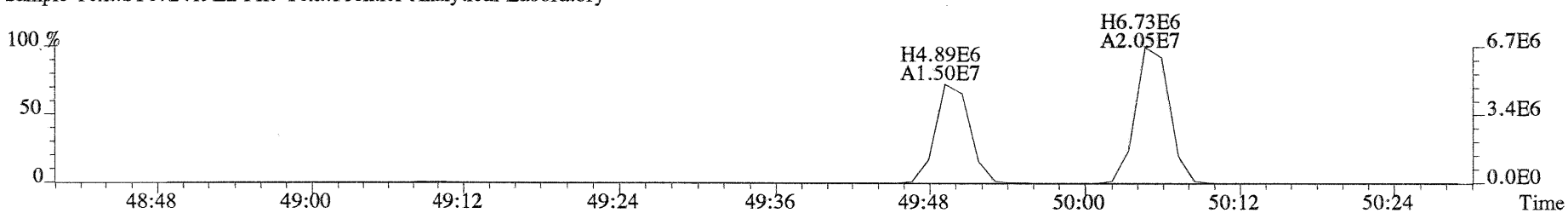
File:24JUL19Z #1-314 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



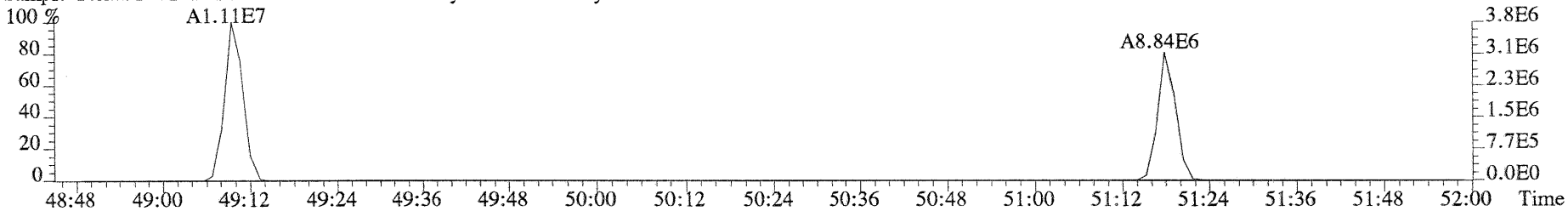
File:24JUL19Z #1-314 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



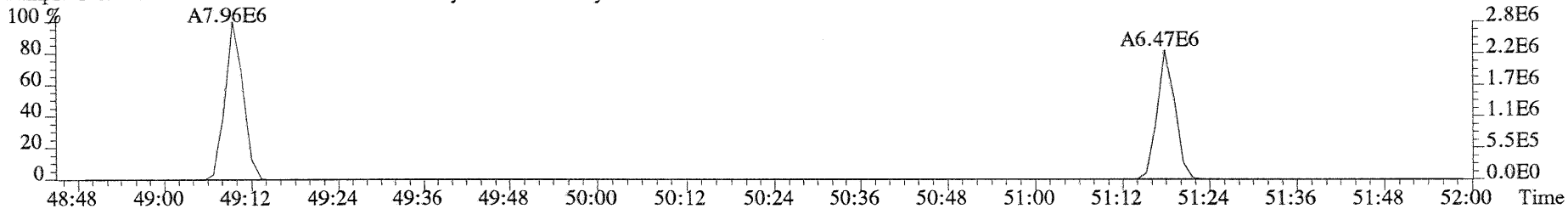
File:24JUL19Z #1-314 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-314 Acq:25-JUL-2019 01:40:20 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:ST072419Z2 File Text:Frontier Analytical Laboratory



File:24JUL19Z #1-314 Acq:25-JUL-2019 01:40:20 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:ST072419Z2 File Text:Frontier Analytical Laboratory



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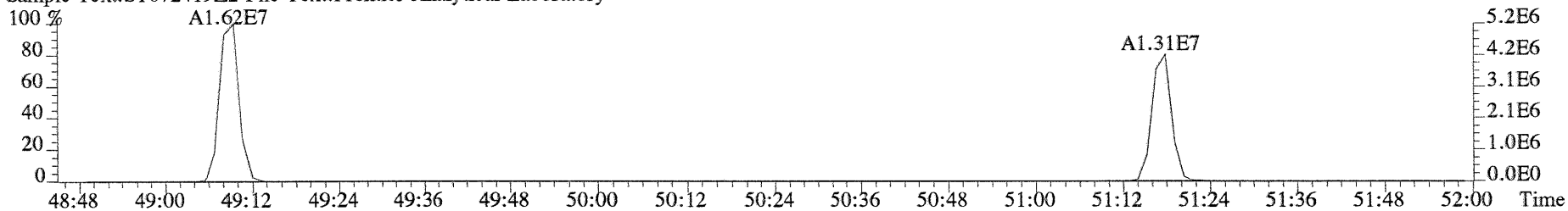
473.7648 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



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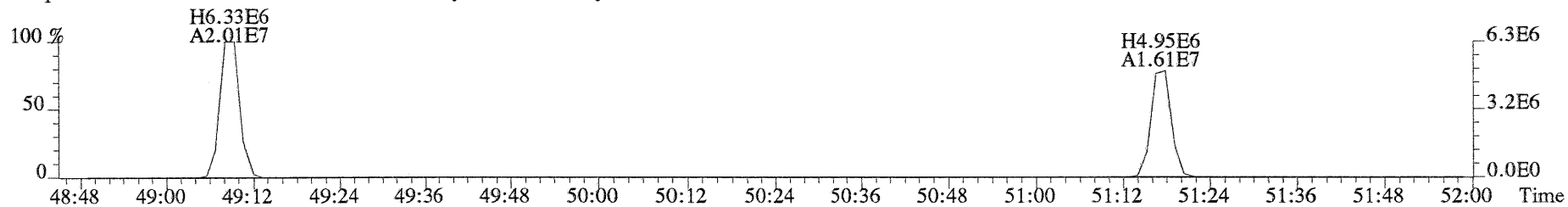
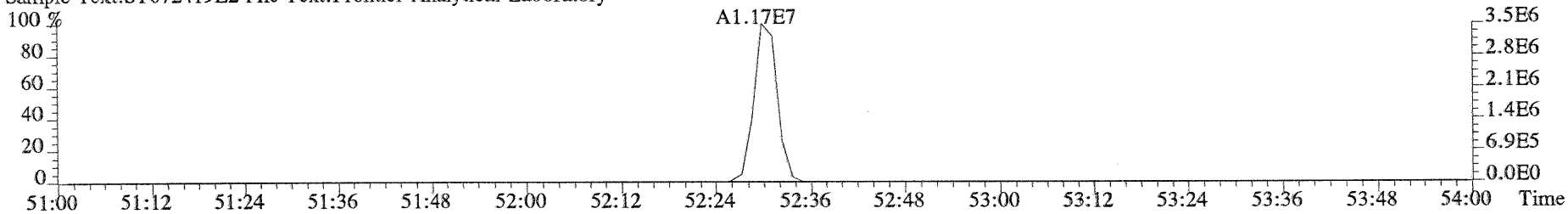
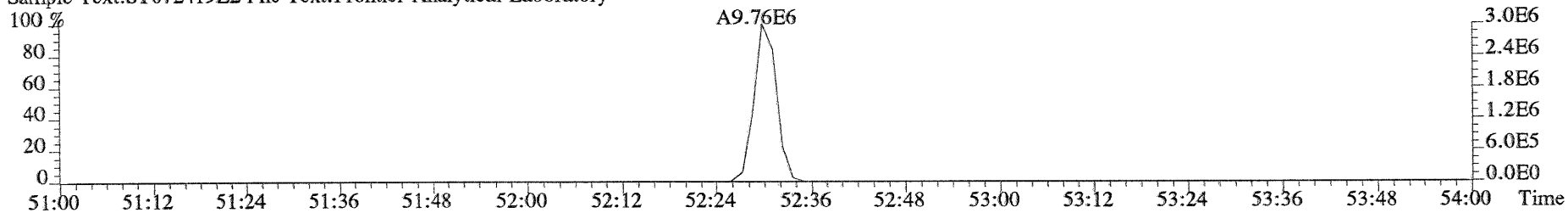
475.7619 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



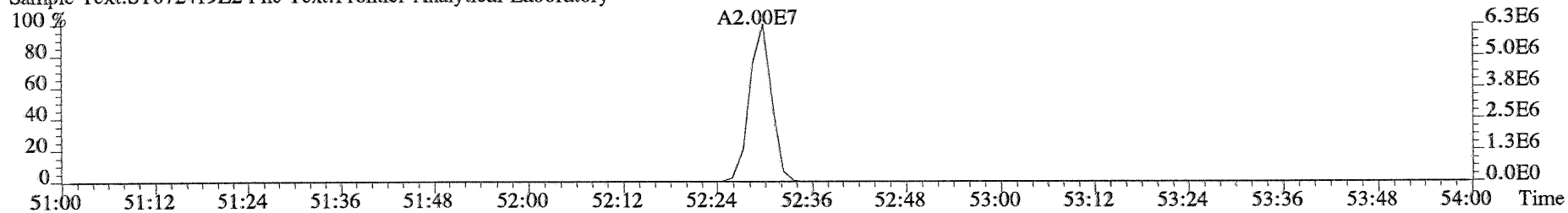
File:24JUL19Z #1-314 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



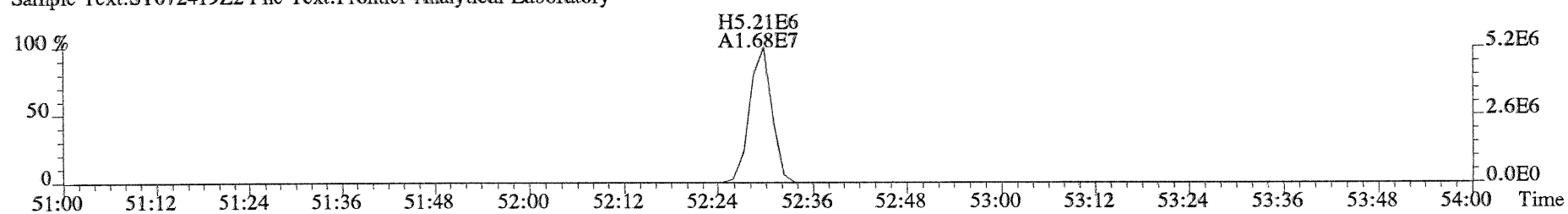
File:24JUL19Z #1-314 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory



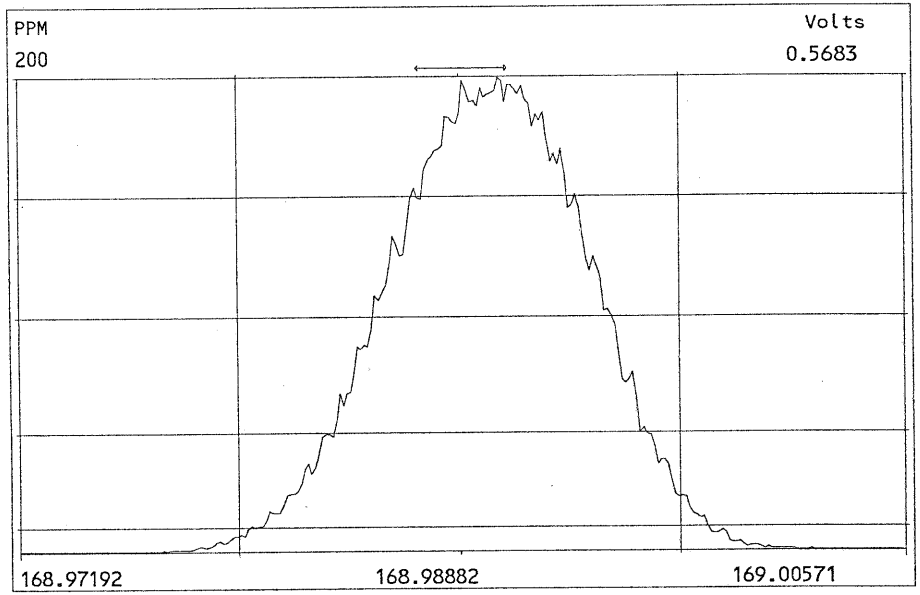
File:24JUL19Z #1-314 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory

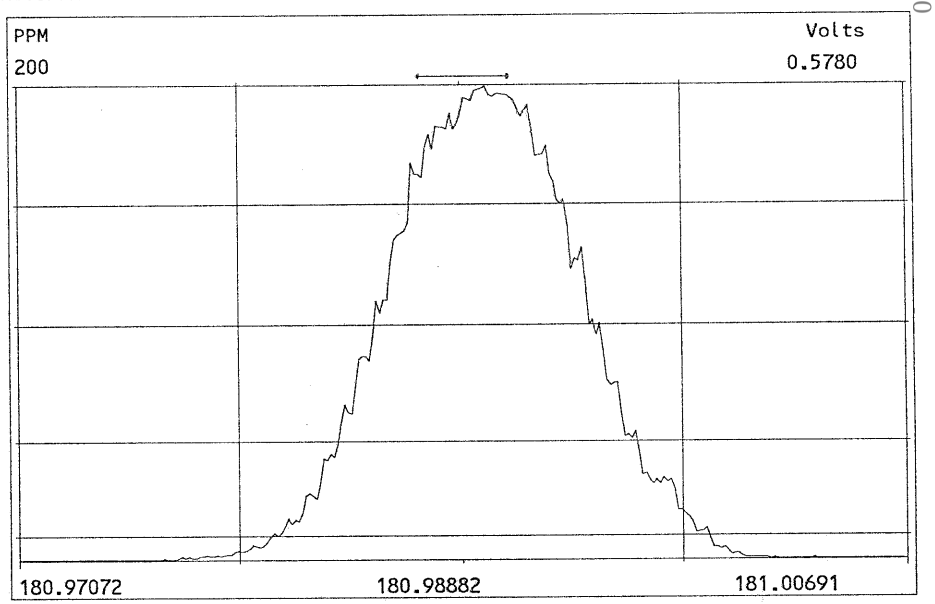


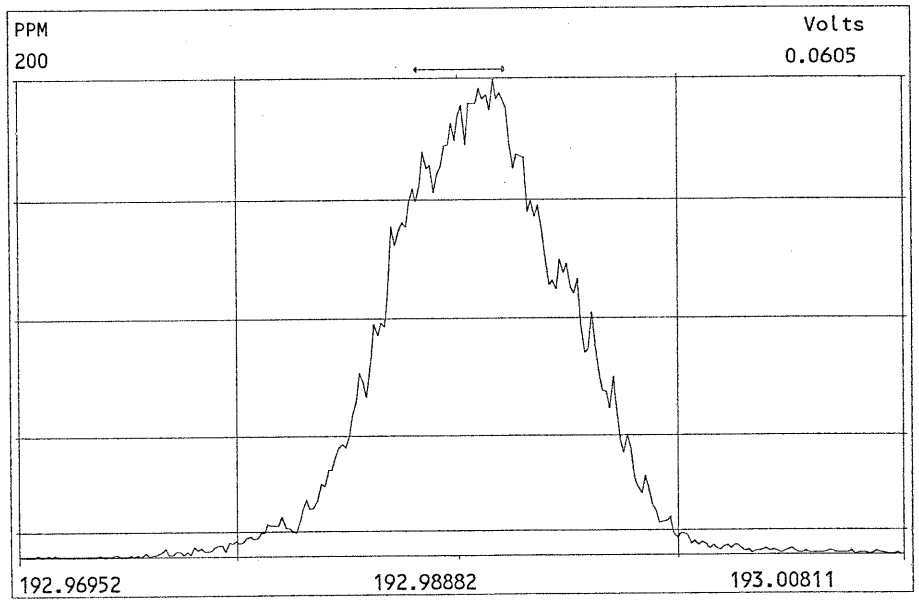
File:24JUL19Z #1-314 Acq:25-JUL-2019 01:40:20 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072419Z2 File Text:Frontier Analytical Laboratory

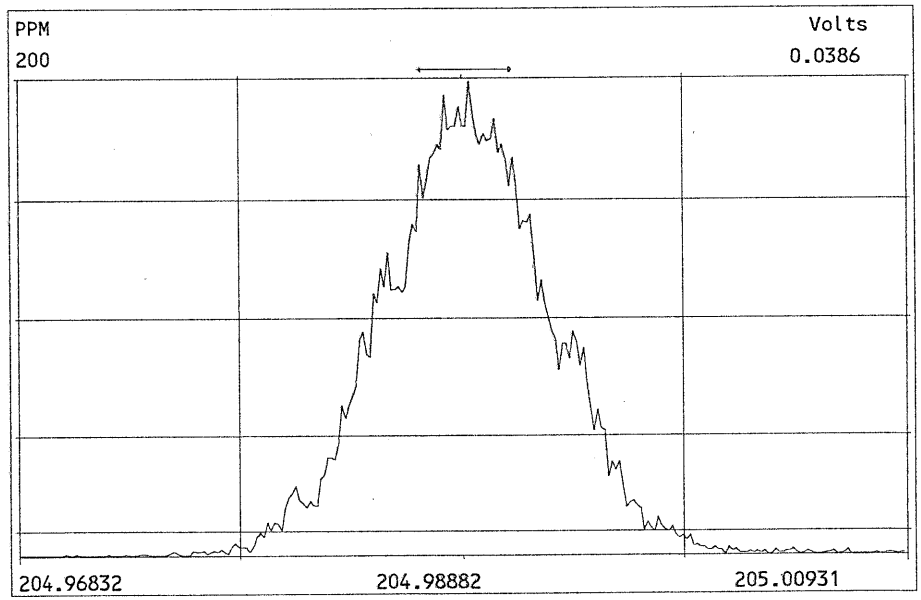


Peak Locate Examination:25-JUL-2019:03:07 File:24JUL19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

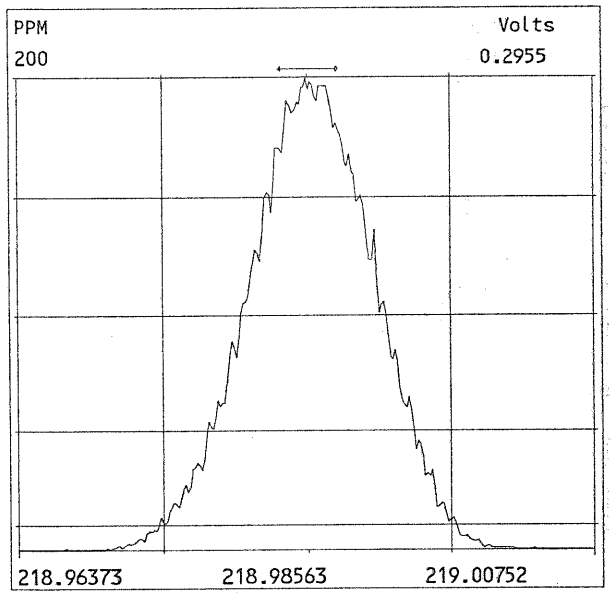


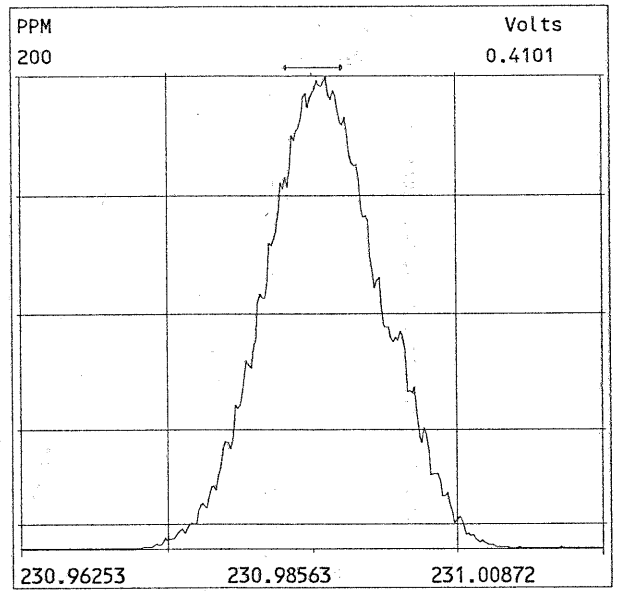


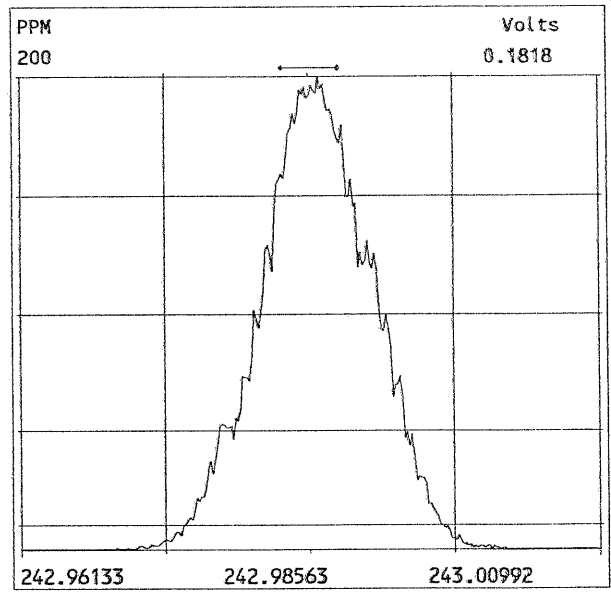


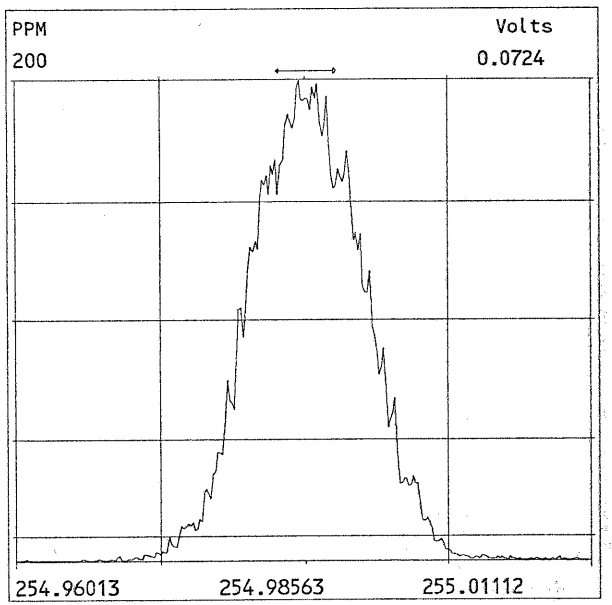


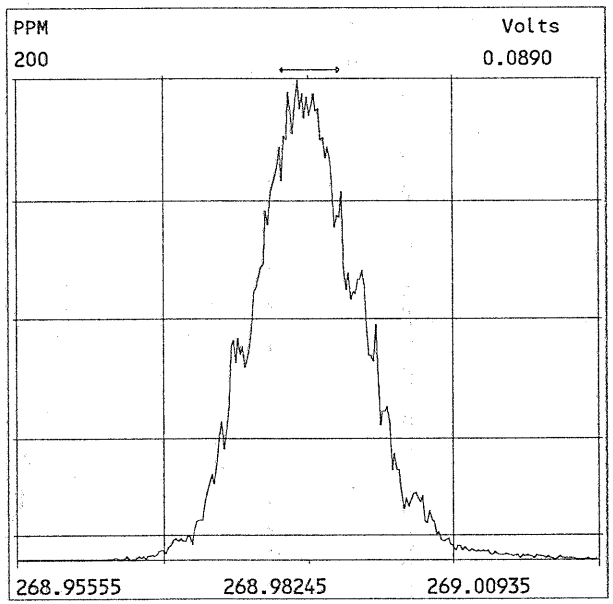
Peak Locate Examination:25-JUL-2019:03:09 File:24JUL19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

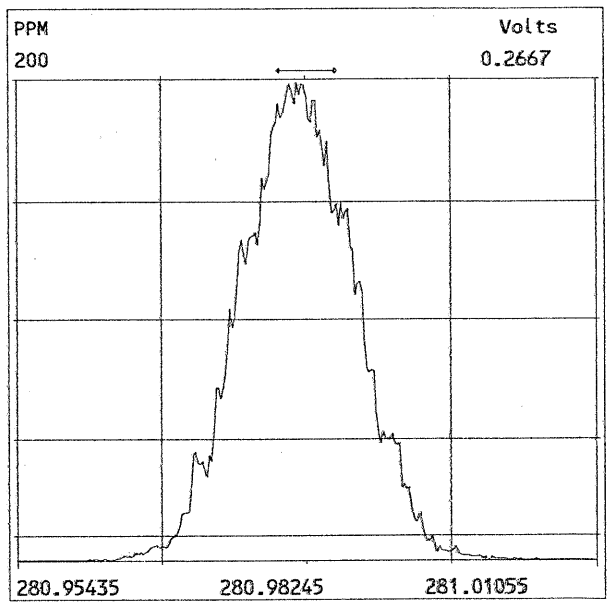




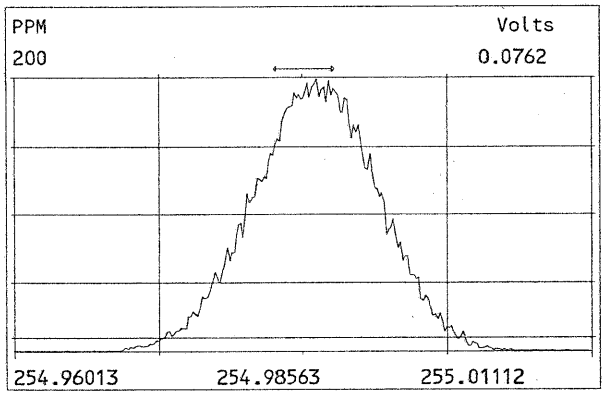


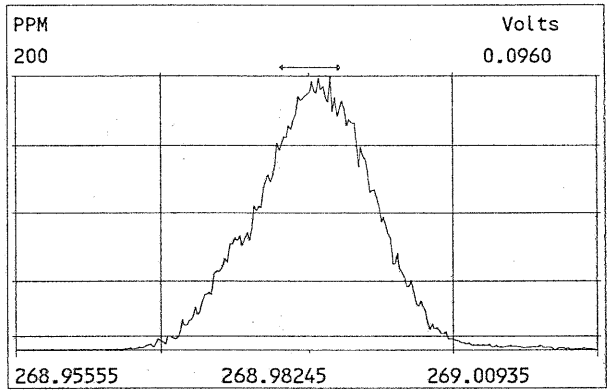


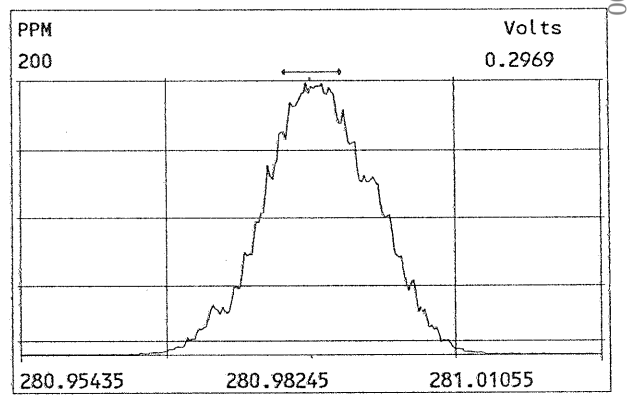


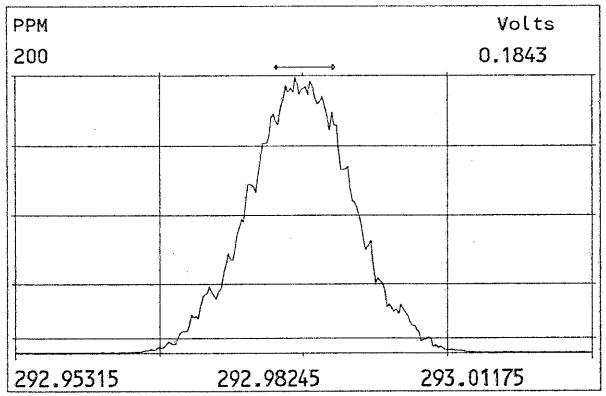


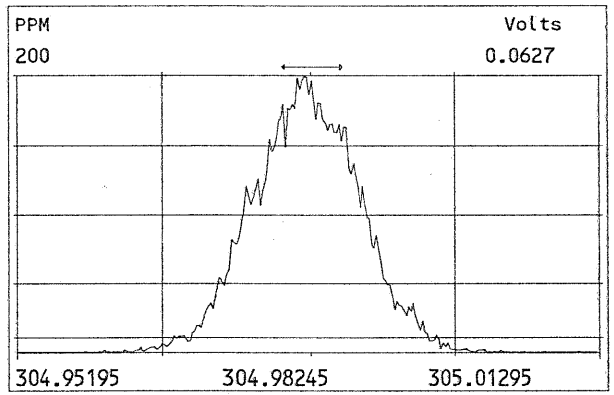
Peak Locate Examination:25-JUL-2019:03:12 File:24JUL19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

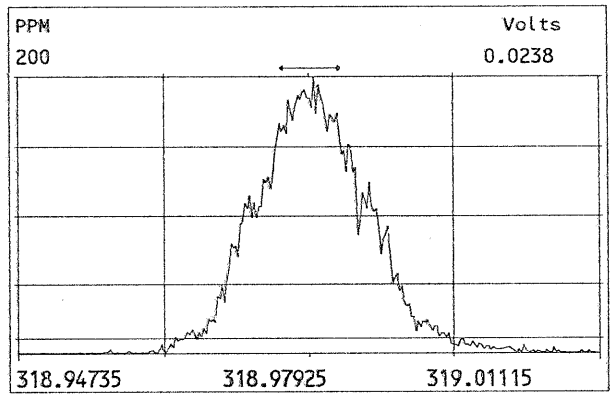


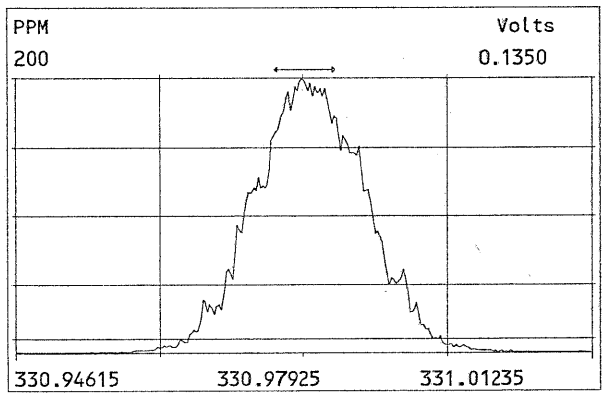


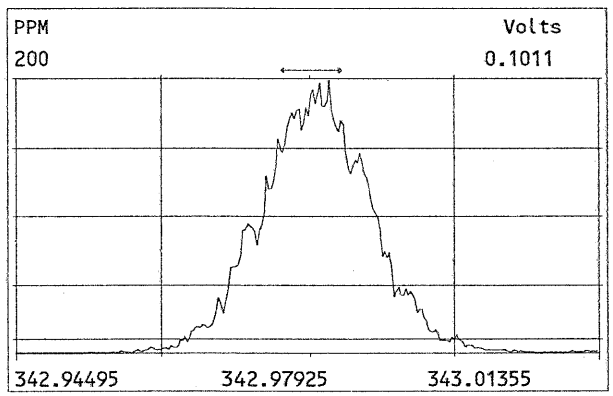




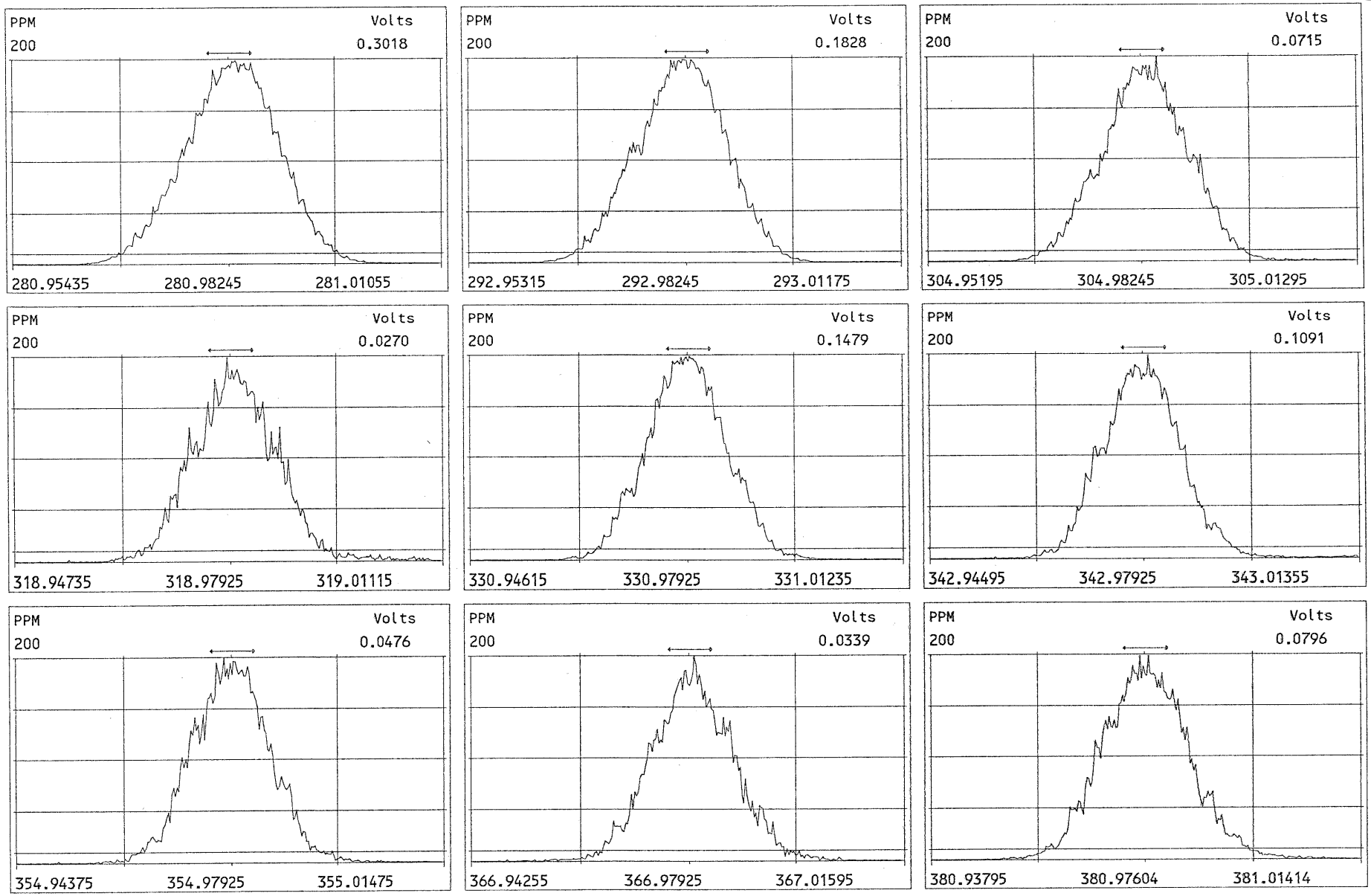




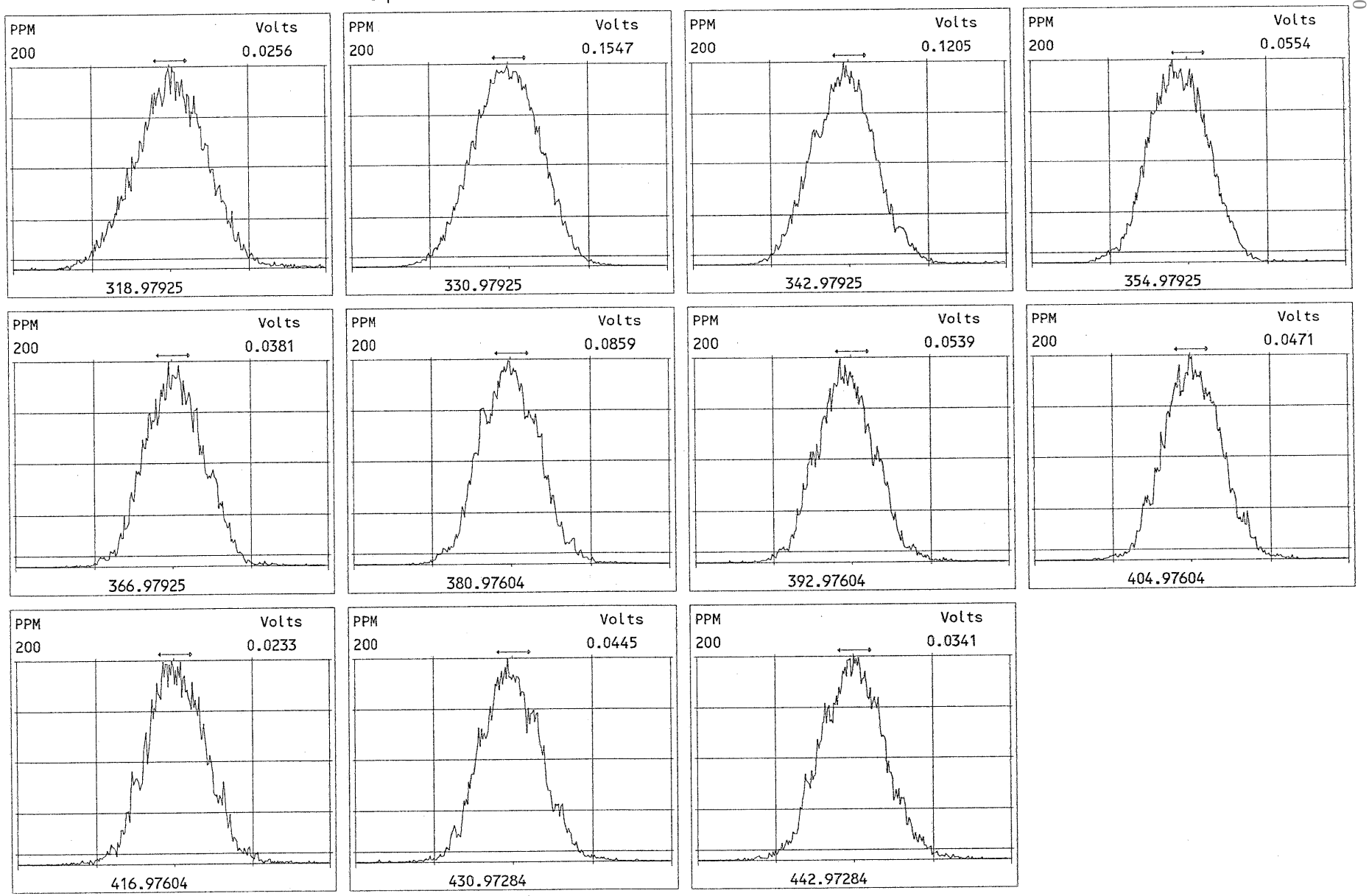




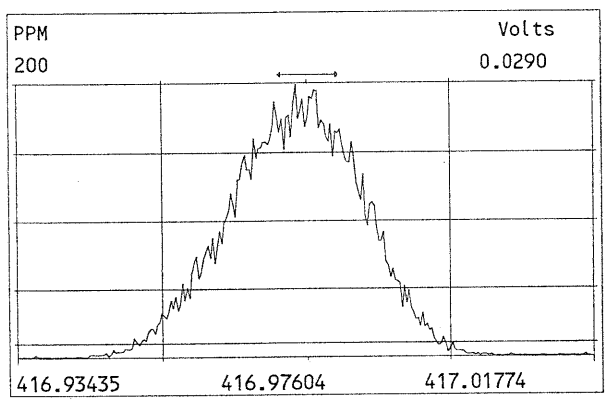
Peak Locate Examination:25-JUL-2019:03:14 File:24JUL19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

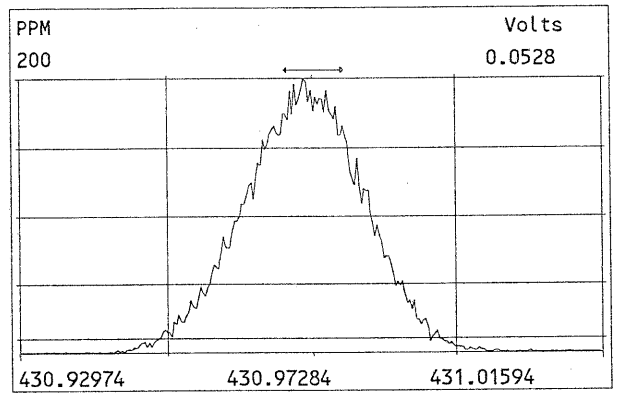


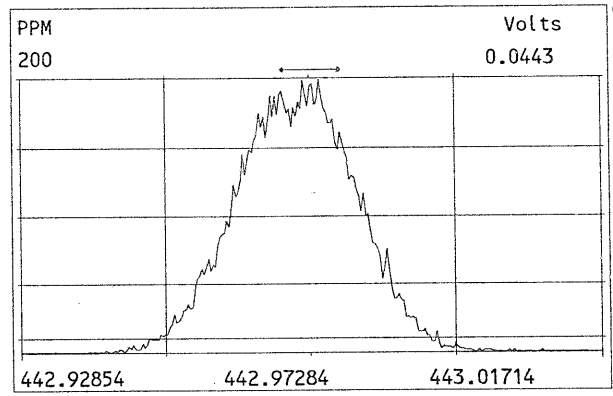
Peak Locate Examination:25-JUL-2019:03:17 File:24JUL19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

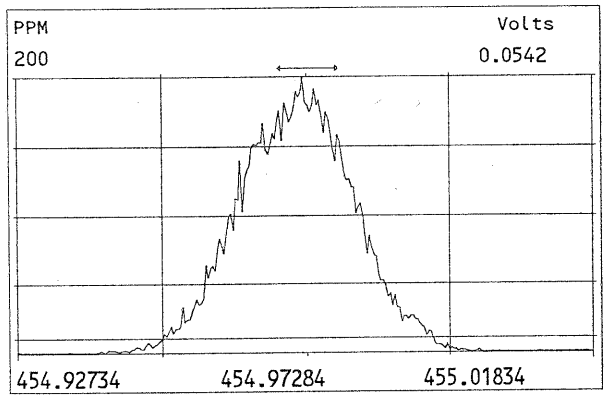


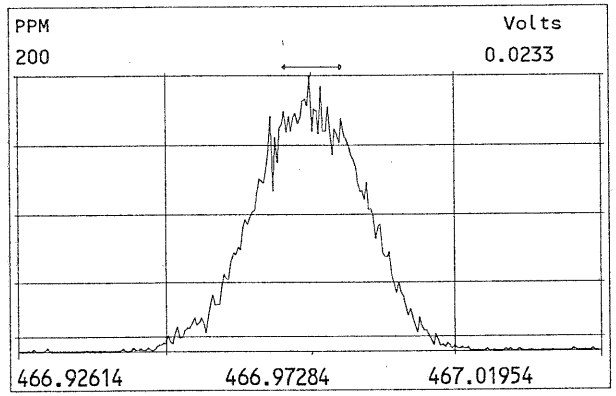
Peak Locate Examination:25-JUL-2019:03:19 File:24JUL19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

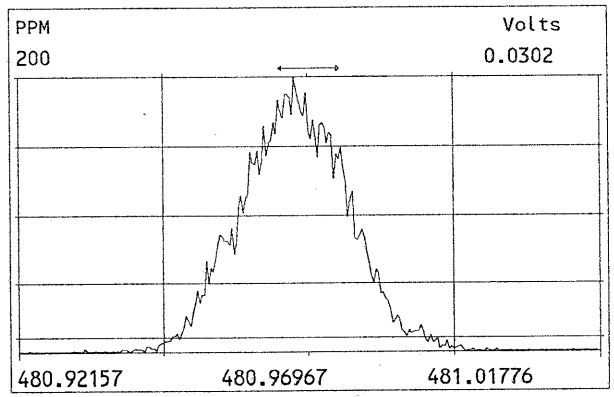


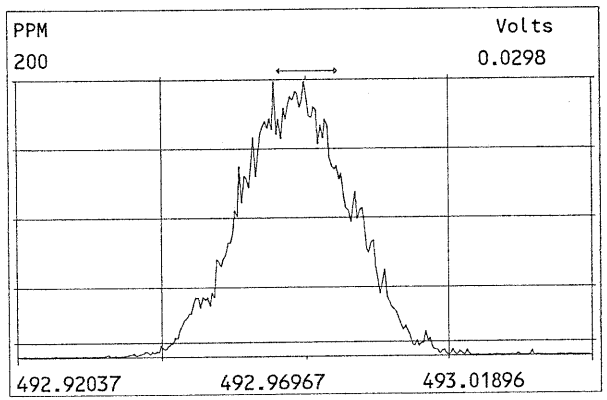


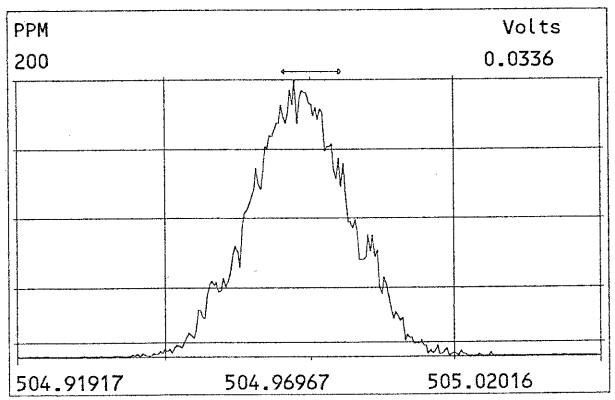


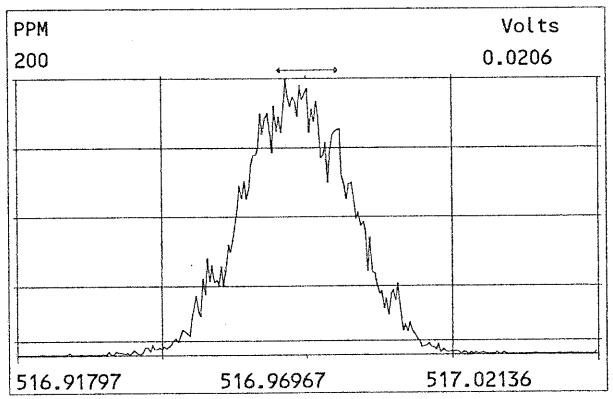












Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 25JUL19Z Sam:1 Analysis Date: 25-JUL-19 11:10:30

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.24	2.66-3.60	y	49.0	37.5 - 62.5
PCB-3	M/M+2	3.14	2.66-3.60	y	50.7	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	49.7	37.5 - 62.5
PCB-15	M/M+2	1.53	1.33-1.79	y	49.5	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	53.5	37.5 - 62.5
PCB-37	M/M+2	1.07	0.88-1.20	y	50.8	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	50.9	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	52.7	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	52.2	37.5 - 62.5
PCB-104	M+2/M+4	1.58	1.32-1.78	y	50.6	37.5 - 62.5
PCB-105	M+2/M+4	1.59	1.32-1.78	y	50.5	37.5 - 62.5
PCB-114	M+2/M+4	1.58	1.32-1.78	y	51.1	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	51.6	37.5 - 62.5
PCB-123	M+2/M+4	1.54	1.32-1.78	y	51.5	37.5 - 62.5
PCB-126	M+2/M+4	1.55	1.32-1.78	y	50.2	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	49.8	37.5 - 62.5
PCB-156	M+2/M+4	1.28	1.05-1.43	y	50.8	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	50.9	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	51.3	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	50.7	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	50.0	37.5 - 62.5
PCB-189	M+2/M+4	1.04	0.89-1.21	y	52.0	37.5 - 62.5
PCB-202	M+2/M+4	0.91	0.76-1.02	y	50.3	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	52.0	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	51.7	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	51.8	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	51.4	37.5 - 62.5

Analyst: Date: 7/25/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 25JUL19Z Sam:1 Analysis Date: 25-JUL-19 11:10:30

	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	3.26	2.66-3.60	y	89.3	50.0 - 145
13C-PCB-3	M/M+2	3.20	2.66-3.60	y	93.5	50.0 - 145
13C-PCB-4	M/M+2	1.58	1.33-1.79	y	87.2	50.0 - 145
13C-PCB-15	M/M+2	1.61	1.33-1.79	y	96.8	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	90.3	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	90.3	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	94.5	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	83.1	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	87.0	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	93.3	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	97.3	50.0 - 145
13C-PCB-114	M+2/M+4	1.59	1.32-1.78	y	98.8	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	98.9	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	1.57	1.32-1.78	y	92.4	50.0 - 145
13C-PCB-155	M+2/M+4	1.32	1.05-1.43	y	99.4	50.0 - 145
13C-PCB-156	M+2/M+4	1.30	1.05-1.43	y	97.2	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	90.2	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	1.29	1.05-1.43	y	95.5	50.0 - 145
13C-PCB-188	M+2/M+4	1.05	0.89-1.21	y	106	50.0 - 145
13C-PCB-189	M+2/M+4	1.05	0.89-1.21	y	105	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	106	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	96.0	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	96.0	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	104	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	103	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	100	65.0 - 135
13C-PCB-111	M+2/M+4	1.59	1.32-1.78	y	98.8	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	108	75.0 - 125

Analyst: [signature] Date: 7/25/19

FAL ID: ST072519Z1 Filename: 25JUL19Z Sam:1 Acquired: 25-JUL-19 11:10:30 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 24JUL19Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	8.34e+07	3.24 y	14:32	1.19	49.0		2.50	-	-	*	-
13C-PCB-1	1.43e+08	3.26 y	14:31	1.02	89.3		2.50				89.3
PCB-3	8.46e+07	3.14 y	16:58	1.18	50.7		2.50	-	-	*	-
13C-PCB-3	1.42e+08	3.20 y	16:57	0.97	93.5		2.50				93.5
PCB-4	5.22e+07	1.57 y	18:12	1.04	49.7		2.50	-	-	*	-
13C-PCB-4	1.01e+08	1.58 y	18:11	0.74	87.2		2.50				87.2
PCB-15	7.44e+07	1.53 y	23:44	1.03	49.5		2.50	-	-	*	-
13C-PCB-15	1.46e+08	1.61 y	23:42	0.96	96.8		2.50				96.8
PCB-19	4.42e+07	1.06 y	22:05	1.11	53.5		2.50	-	-	*	-
13C-PCB-19	7.43e+07	1.09 y	22:04	0.53	90.3		2.50				90.3
13C-PCB-9	1.57e+08	1.57 y	19:51	-	202		2.50				
PCB-37	5.38e+07	1.07 y	30:22	1.04	50.8		2.50	-	-	*	-
13C-PCB-37	1.02e+08	1.06 y	30:21	1.57	90.3		2.50				90.3
PCB-54	5.59e+07	0.80 y	25:38	1.16	50.9		2.50	-	-	*	-
13C-PCB-54	9.43e+07	0.81 y	25:36	1.38	94.5		2.50				94.5
PCB-104	4.07e+07	1.58 y	30:03	1.08	50.6		2.50	-	-	*	-
13C-PCB-104	7.45e+07	1.60 y	30:02	1.11	93.3		2.50				93.3
13C-PCB-28	1.24e+08	1.05 y	26:41	1.71	100		2.50				100
13C-PCB-52	7.22e+07	0.79 y	28:56	-	189		2.50				
PCB-81	4.00e+07	0.81 y	36:08	1.06	52.2		2.50	-	-	*	-
13C-PCB-81	7.19e+07	0.80 y	36:07	1.50	87.0		2.50				87.0
PCB-77	3.87e+07	0.80 y	36:42	1.02	52.7		2.50	-	-	*	-
13C-PCB-77	7.18e+07	0.81 y	36:41	1.57	83.1		2.50				83.1
PCB-155	3.97e+07	1.27 y	34:13	1.02	49.8		2.50	-	-	*	-
13C-PCB-155	7.78e+07	1.32 y	34:12	1.42	99.4		2.50				99.4
13C-PCB-111	7.02e+07	1.59 y	36:17	1.29	98.8		2.50				98.8
13C-PCB-101	5.51e+07	1.60 y	34:38	-	168		2.50				
PCB-123	3.51e+07	1.54 y	38:20	1.03	51.5		2.50	-	-	*	-
13C-PCB-123	6.60e+07	1.59 y	38:20	1.40	101		2.50				101
PCB-118	3.73e+07	1.56 y	38:32	1.02	51.6		2.50	-	-	*	-
13C-PCB-118	7.09e+07	1.61 y	38:30	1.53	98.9		2.50				98.9
PCB-114	3.46e+07	1.58 y	39:08	1.01	51.1		2.50	-	-	*	-
13C-PCB-114	6.69e+07	1.59 y	39:06	1.45	98.8		2.50				98.8
PCB-105	3.36e+07	1.59 y	39:57	1.02	50.5		2.50	-	-	*	-
13C-PCB-105	6.55e+07	1.59 y	39:56	1.44	97.3		2.50				97.3
PCB-126	3.02e+07	1.55 y	42:04	1.02	50.2		2.50	-	-	*	-
13C-PCB-126	5.92e+07	1.57 y	42:04	1.37	92.4		2.50				92.4
PCB-167	3.21e+07	1.26 y	43:26	1.07	51.3		2.50	-	-	*	-
13C-PCB-167	5.85e+07	1.27 y	43:25	1.28	97.6		2.50				97.6
PCB-156	3.13e+07	1.28 y	44:40	1.10	50.8		2.50	-	-	*	-
13C-PCB-156	5.62e+07	1.30 y	44:39	1.24	97.2		2.50				97.2
PCB-157	3.05e+07	1.27 y	44:55	1.06	50.9		2.50	-	-	*	-
13C-PCB-157	5.64e+07	1.29 y	44:54	1.34	90.2		2.50				90.2
PCB-169	2.99e+07	1.27 y	46:47	1.06	50.7		2.50	-	-	*	-
13C-PCB-169	5.55e+07	1.29 y	46:45	1.24	95.5		2.50				95.5
PCB-188	3.23e+07	1.05 y	39:44	1.02	50.0		2.50	-	-	*	-
13C-PCB-188	6.35e+07	1.05 y	39:42	1.29	106		2.50				106
PCB-189	2.70e+07	1.04 y	48:28	0.99	52.0		2.50	-	-	*	-
13C-PCB-189	5.23e+07	1.05 y	48:26	1.07	105		2.50				105
PCB-202	2.67e+07	0.91 y	44:50	0.99	50.3		2.50	-	-	*	-
13C-PCB-202	5.37e+07	0.91 y	44:49	1.09	106		2.50				106
13C-PCB-178	4.06e+07	1.06 y	42:20	0.81	108		2.50				108
13C-PCB-138	4.67e+07	1.29 y	41:34	-	145		2.50				

FAL ID: ST072519Z1 Filename: 25JUL19Z Sam:1 Acquired: 25-JUL-19 11:10:30 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 24JUL19Z GC Column: DB1MS Amount: 1.000

PCB-205	3.19e+07	0.91 y	50:06	1.02	52.0	2.50	-	-	*	-
13C-PCB-205	6.01e+07	0.90 y	50:06	1.40	96.0	2.50				96.0
PCB-208	3.19e+07	1.36 y	49:10	0.98	51.8	2.50	-	-	*	-
13C-PCB-208	6.32e+07	0.80 y	49:10	1.36	104	2.50				104
PCB-206	2.22e+07	1.35 y	51:21	0.99	51.7	2.50	-	-	*	-
13C-PCB-206	4.31e+07	0.80 y	51:19	1.01	96.0	2.50				96.0
PCB-209	3.12e+07	1.19 y	52:30	1.09	51.4	2.50	-	-	*	-
13C-PCB-209	5.58e+07	1.21 y	52:29	1.21	103	2.50				103
13C-PCB-194	4.47e+07	0.92 y	49:51	-	146	2.50				

Analyst: _____ Date: 7/25/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:25JUL19Z Instrument: FAL4 GC: DB1MS Experiment:1668

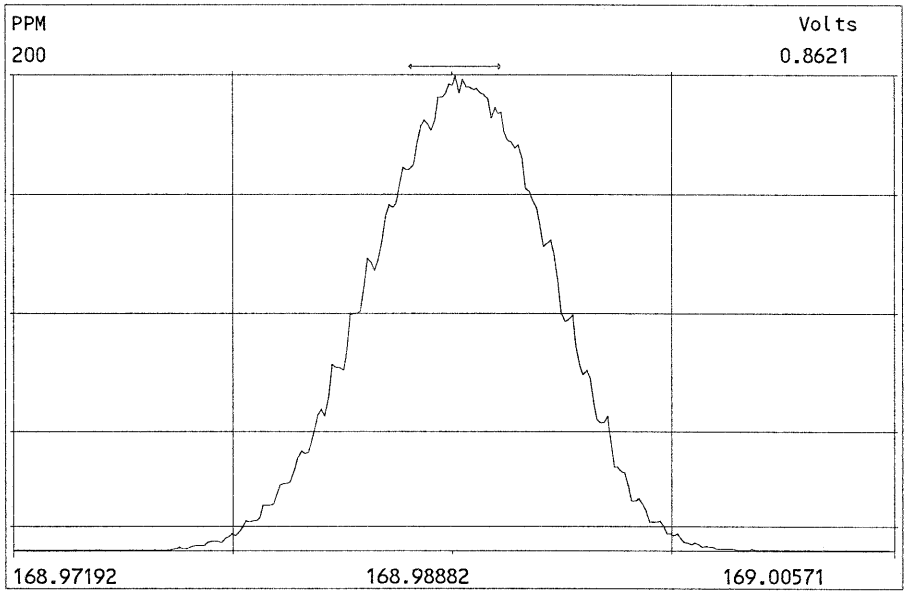
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
25JUL19Z	1	ST072519Z1	1668 CS3 R181204D	25-JUL-19 11:10:30	ST072519Z1	ST072519Z2	BS
25JUL19Z	2	SS072519Z1	Daily 209 190408A	25-JUL-19 12:08:50	ST072519Z1	ST072519Z2	BS
25JUL19Z	3	04984-001-0001-OPR	OPR	25-JUL-19 13:07:37	ST072519Z1	ST072519Z2	BS
25JUL19Z	4	04984-001-0001-MB	Method Blank	25-JUL-19 14:06:23	ST072519Z1	ST072519Z2	BS
25JUL19Z	5	12532-011-0001-SA	LDW-Y2-IN-ENR+AC-CB-CORE	25-JUL-19 15:05:09	ST072519Z1	ST072519Z2	BS
25JUL19Z	6	12532-012-0001-SA	LDW-Y2-IN-ENR+AC-CC-CORE	25-JUL-19 16:03:30	ST072519Z1	ST072519Z2	BS
25JUL19Z	7	12532-013-0001-SA	LDW-Y2-SC-ENR-CC-CORE	25-JUL-19 17:01:52	ST072519Z1	ST072519Z2	BS
25JUL19Z	8	12532-014-0001-SA	LDW-Y2-SC-ENR-CD-CORE	25-JUL-19 18:00:33	ST072519Z1	ST072519Z2	BS
25JUL19Z	9	12532-015-0001-SA	LDW-Y2-SC-ENR-CE-CORE	25-JUL-19 18:58:54	ST072519Z1	ST072519Z2	BS
25JUL19Z	10	12532-016-0001-SA	LDW-Y2-SC-ENR+AC-CAD-CORE	25-JUL-19 19:57:41	ST072519Z1	ST072519Z2	BS
25JUL19Z	11	12532-017-0001-SA	LDW-Y2-SC-ENR+AC-CB-CORE	25-JUL-19 20:56:03	ST072519Z1	ST072519Z2	BS
25JUL19Z	12	12532-018-0001-SA	LDW-Y2-SC-ENR+AC-CC-CORE	25-JUL-19 21:54:24	ST072519Z1	ST072519Z2	BS
25JUL19Z	13	12532-019-0001-SA	LDW-Y2-SC-ENR-SS	25-JUL-19 22:52:45	ST072519Z1	ST072519Z2	BS
25JUL19Z	14	12532-020-0001-SA	LDW-Y2-SC-ENR+AC-SS	25-JUL-19 23:51:06	ST072519Z1	ST072519Z2	BS
25JUL19Z	15	SB072519Z1	Solvent Blank	26-JUL-19 00:49:27	ST072519Z1	ST072519Z2	BS
25JUL19Z	16	ST072519Z2	1668 CS3 R181204D	26-JUL-19 01:47:50	ST072519Z1	ST072519Z2	BS

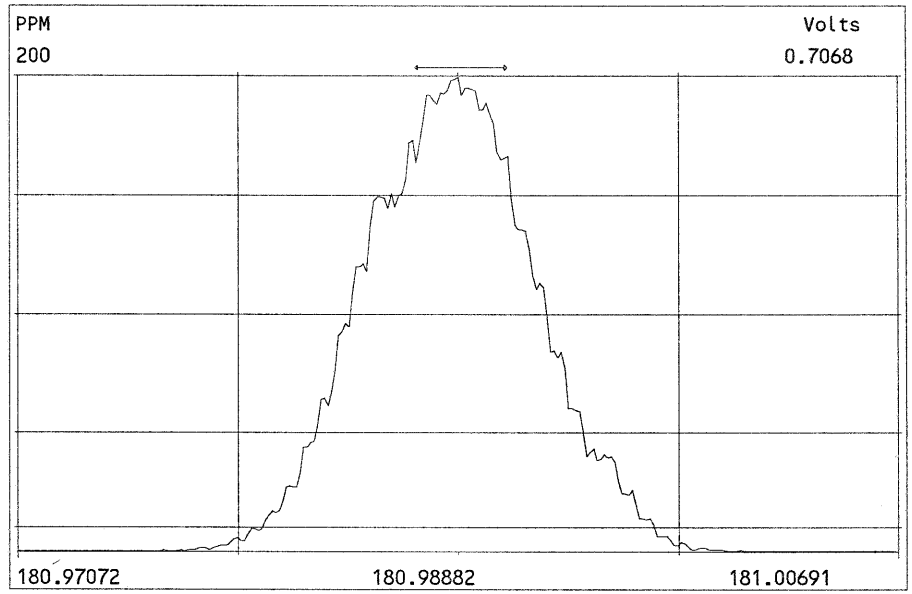
7/26/19

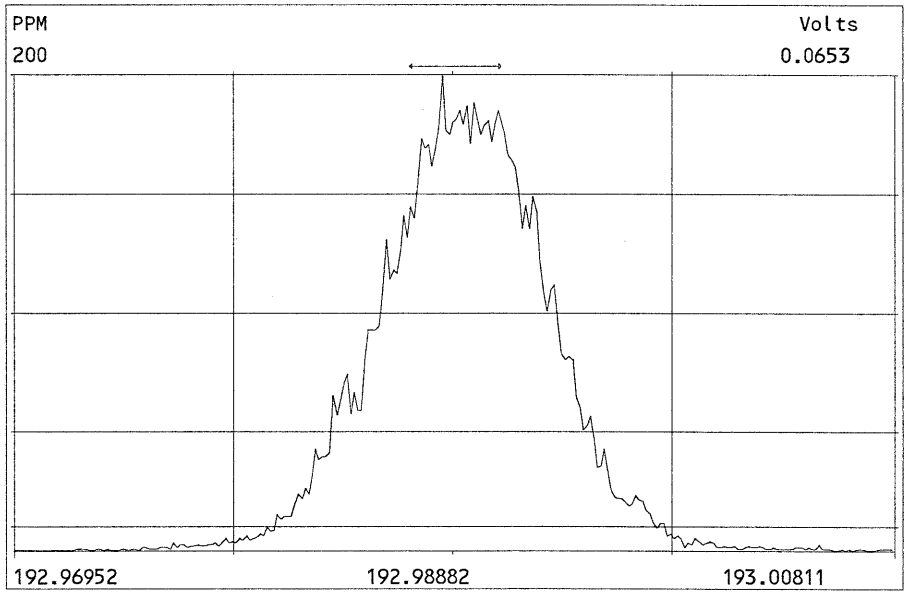
Data Backed Up:_____

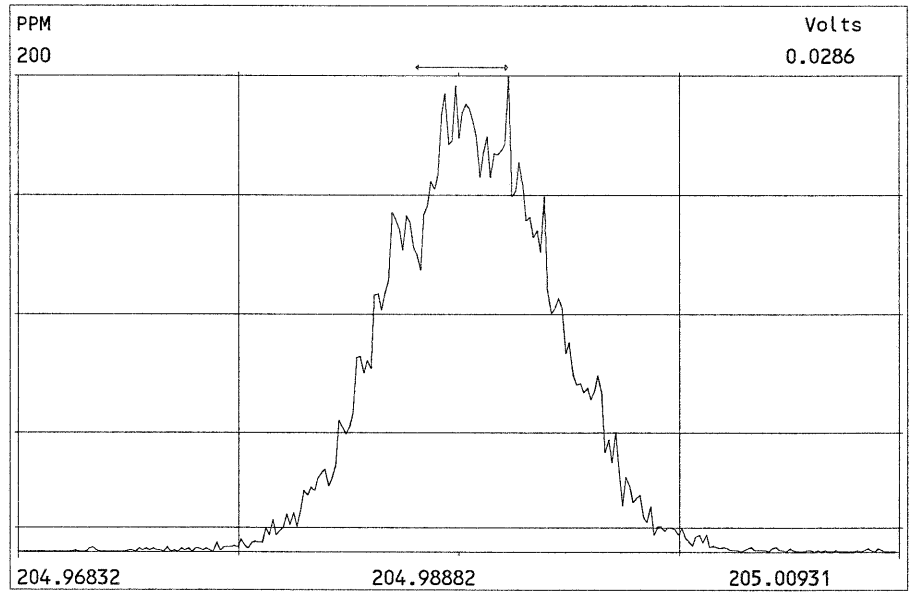
Date:_____

Peak Locate Examination:25-JUL-2019:11:08 File:25JUL19Z
Experiment:1668PCB Function:1 Reference:PFK

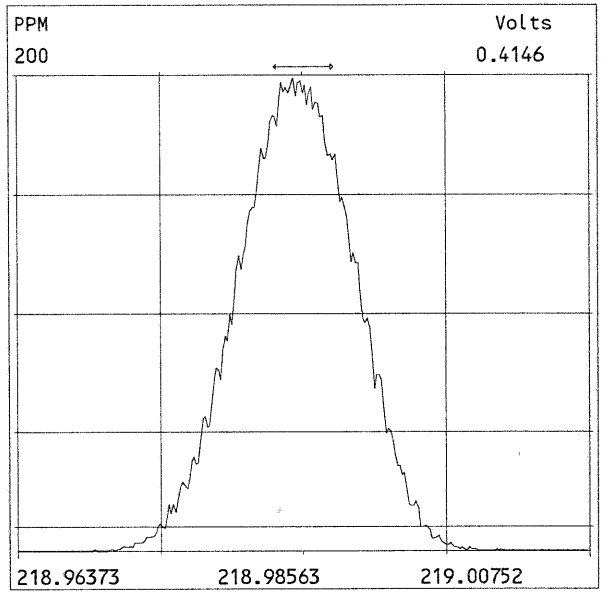


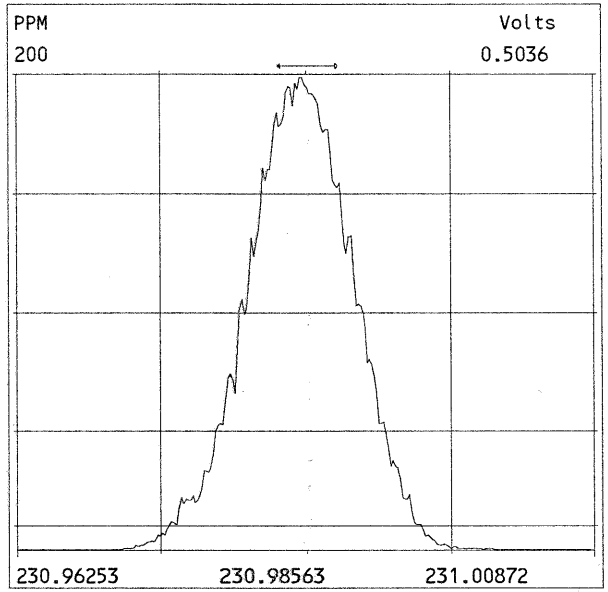


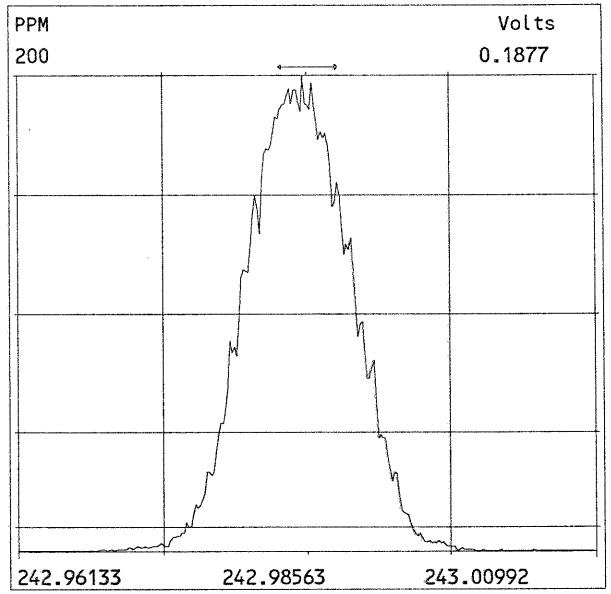


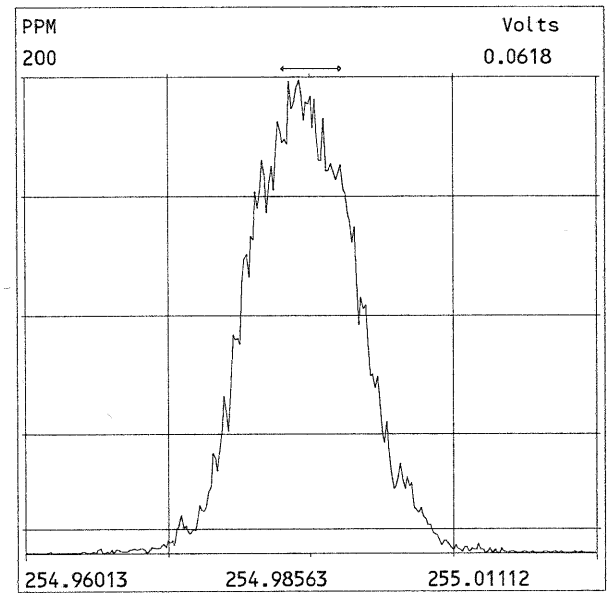


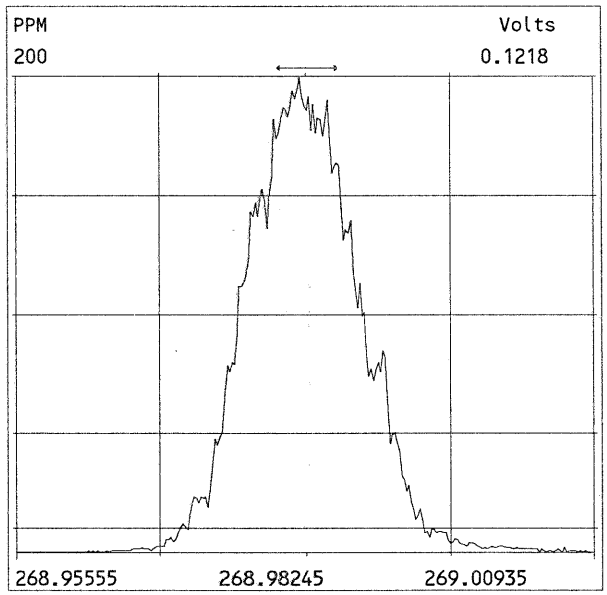
Peak Locate Examination:25-JUL-2019:11:08 File:25JUL19Z
Experiment:1668PCB Function:2 Reference:PFK

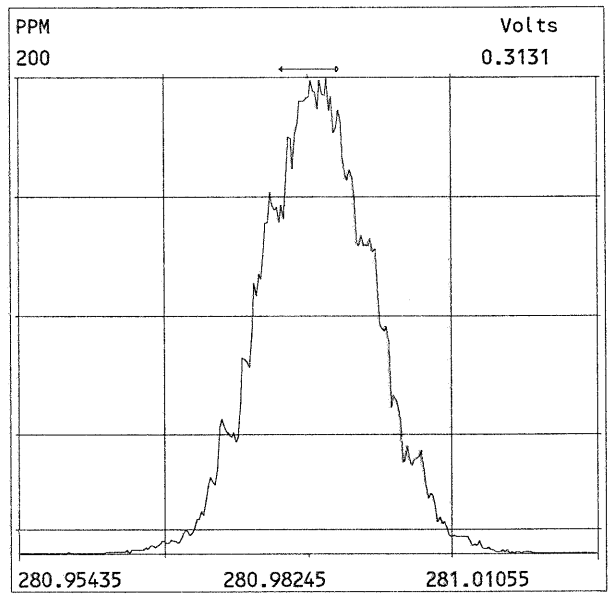




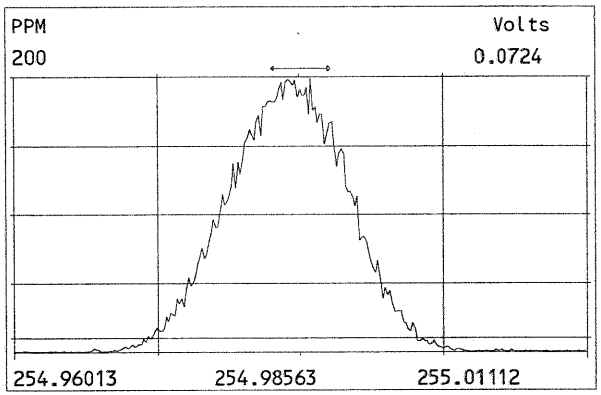


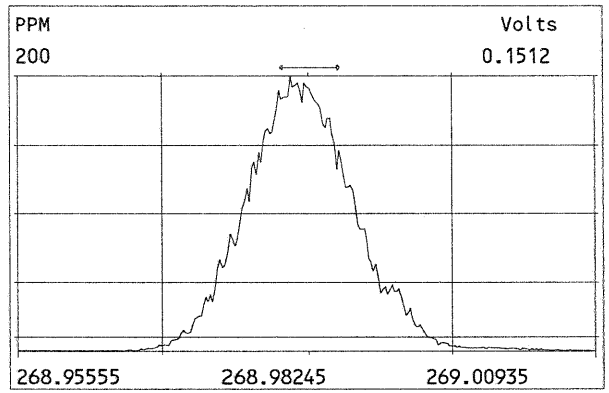


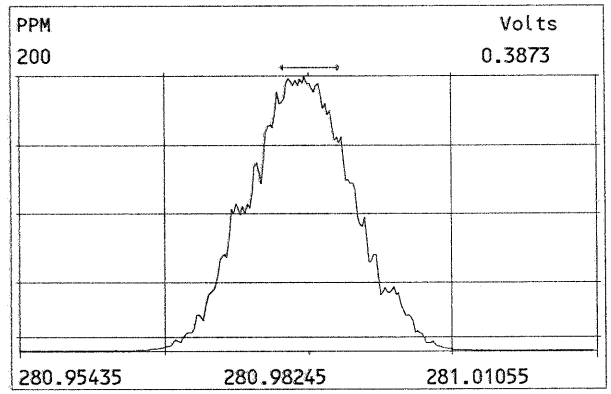


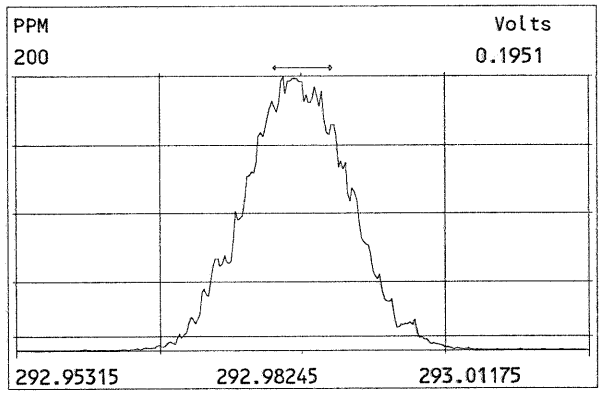


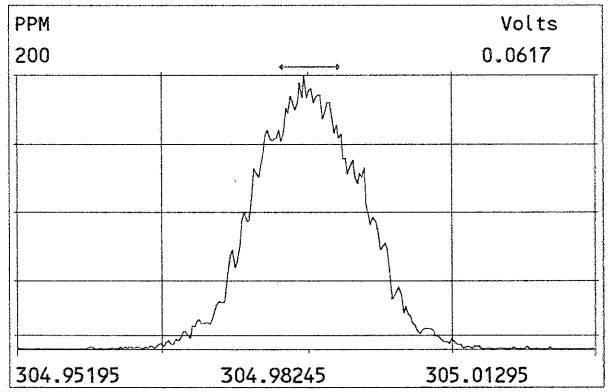
Peak Locate Examination:25-JUL-2019:11:08 File:25JUL19Z
Experiment:1668PCB Function:3 Reference:PFK

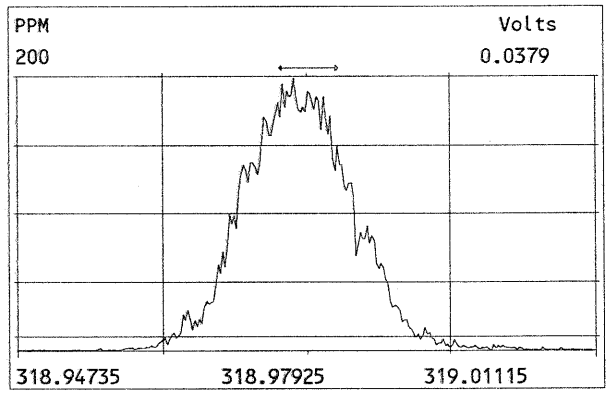


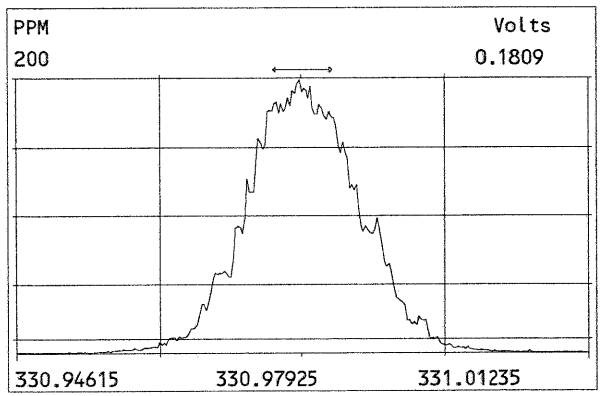


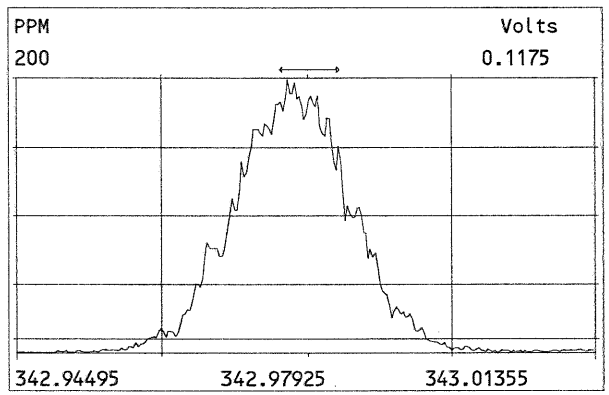




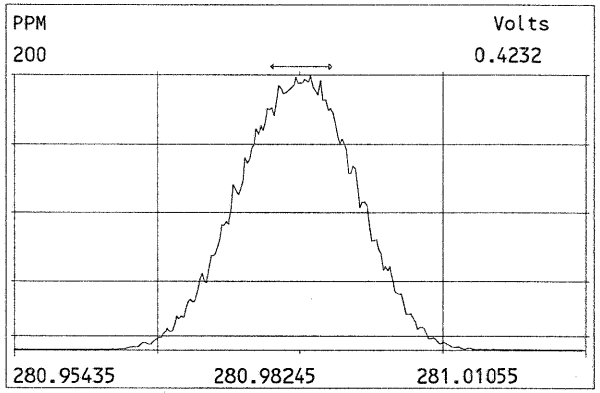


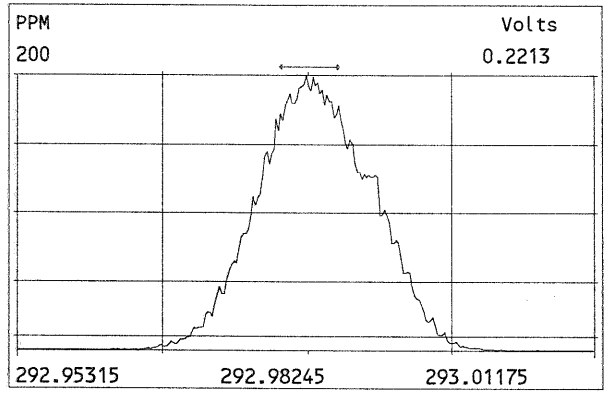


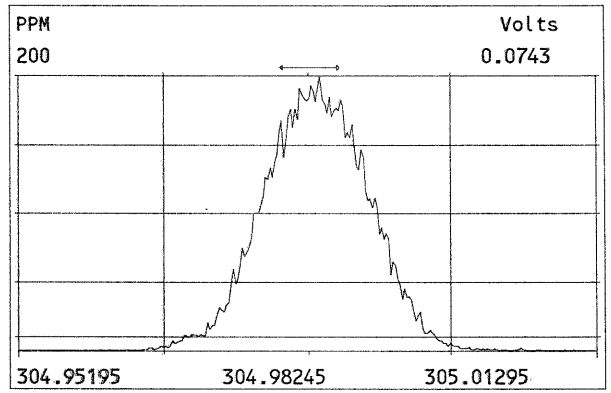


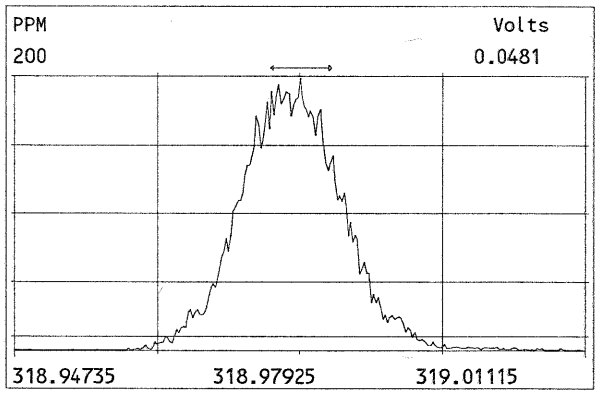


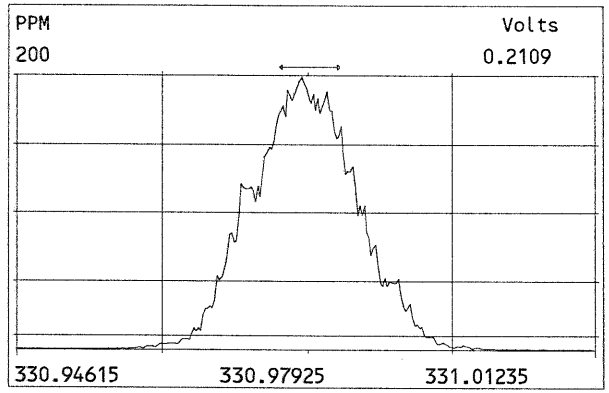
Peak Locate Examination:25-JUL-2019:11:09 File:25JUL19Z
Experiment:1668PCB Function:4 Reference:PFK

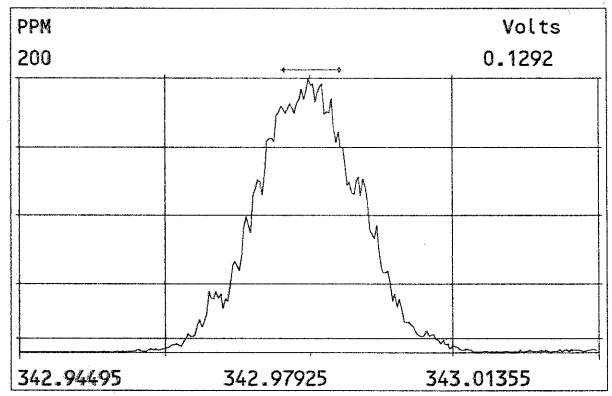


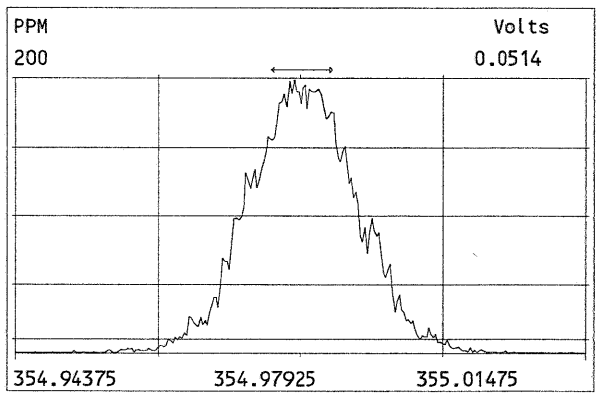


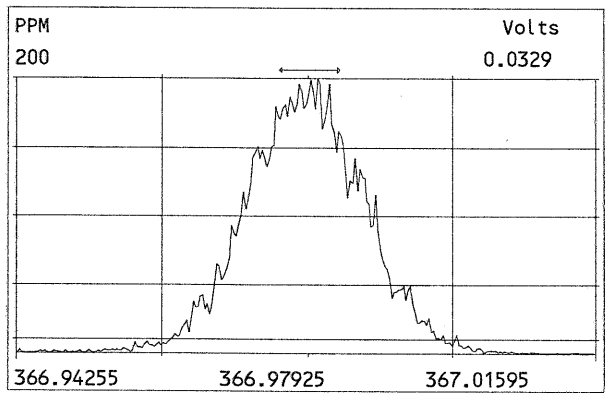


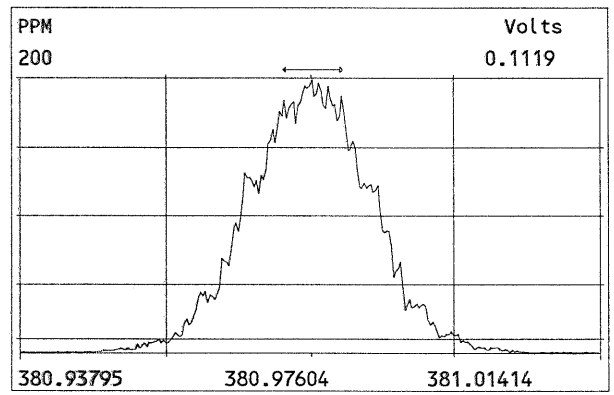




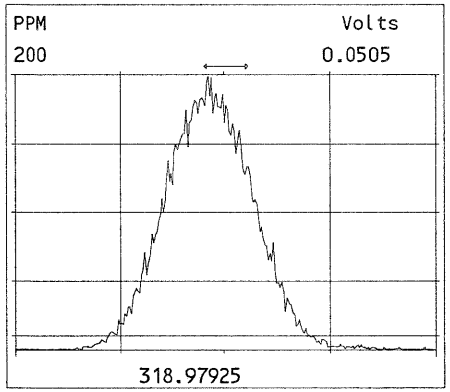


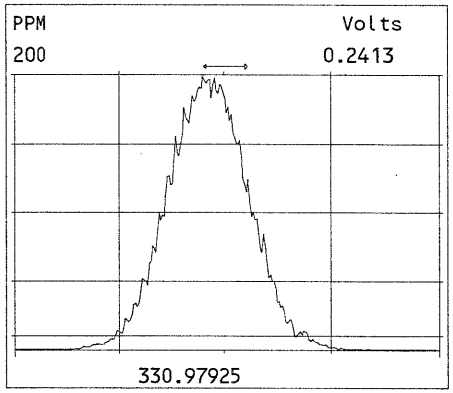


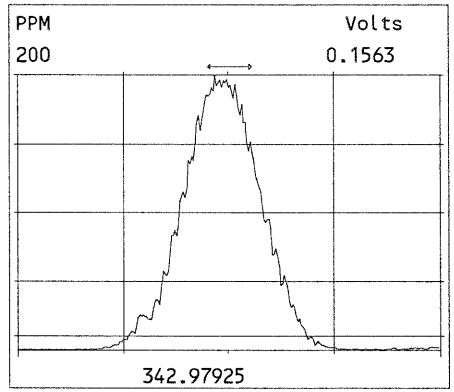


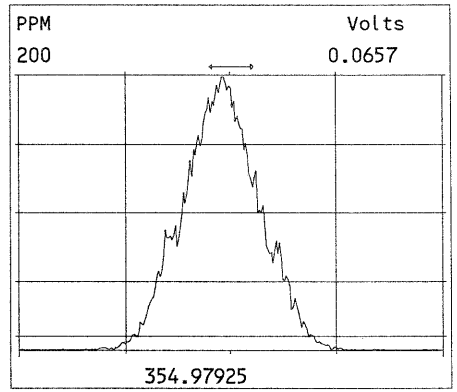


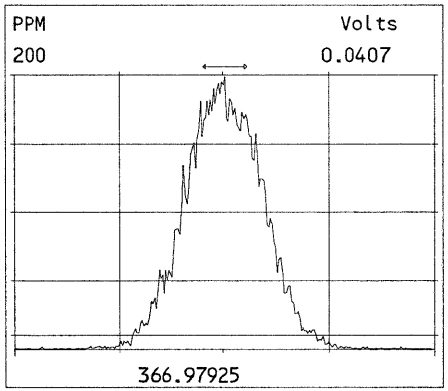
Peak Locate Examination:25-JUL-2019:11:09 File:25JUL19Z
Experiment:1668PCB Function:5 Reference:PFK

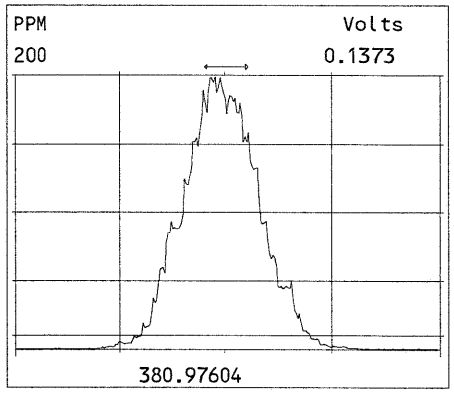


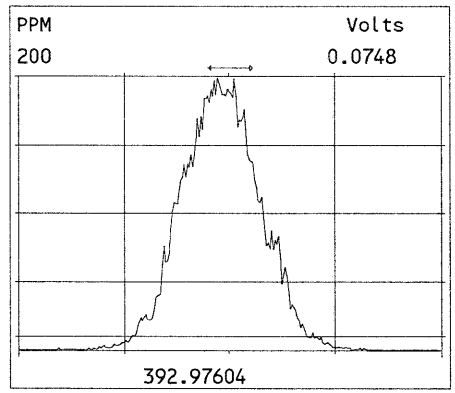


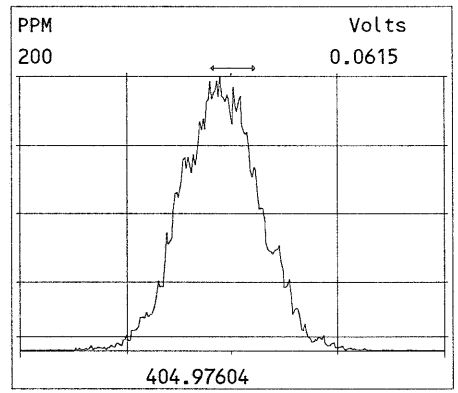


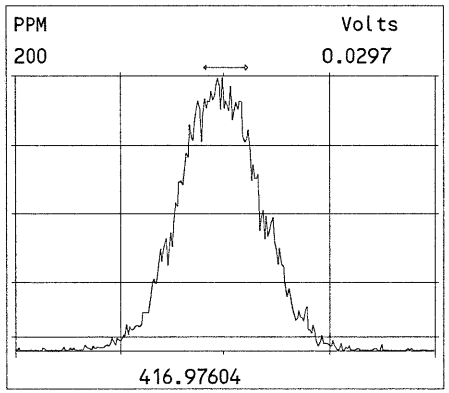


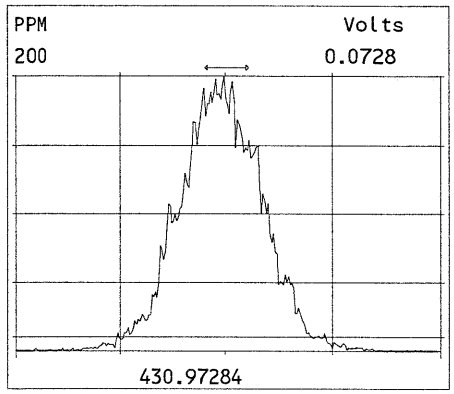


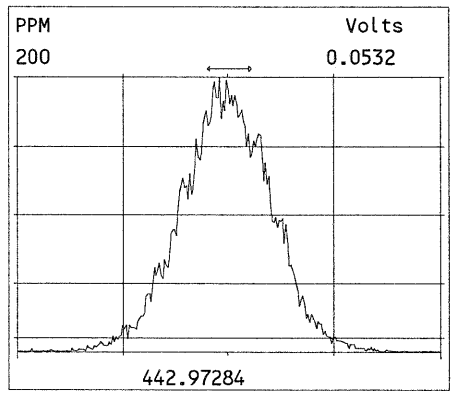




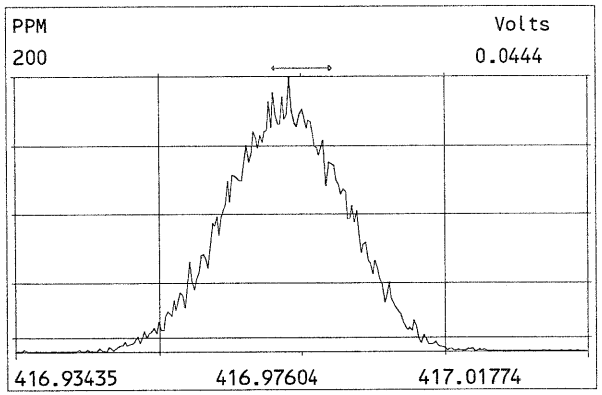


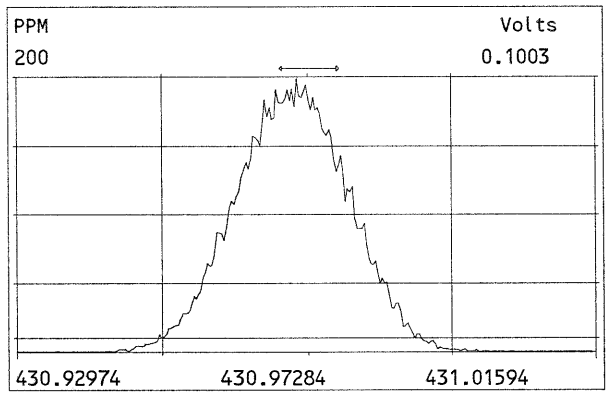


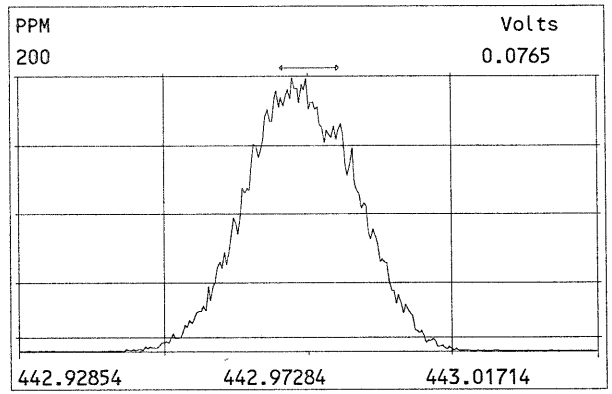


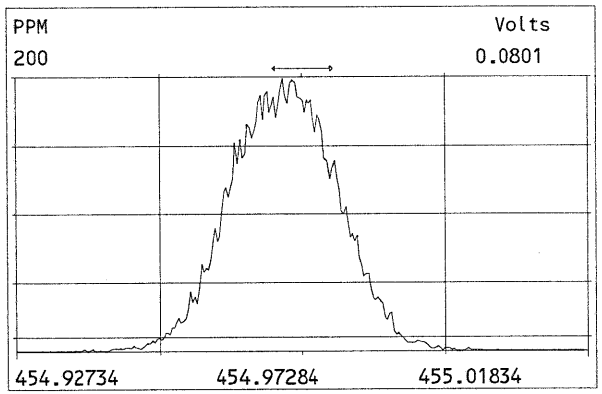


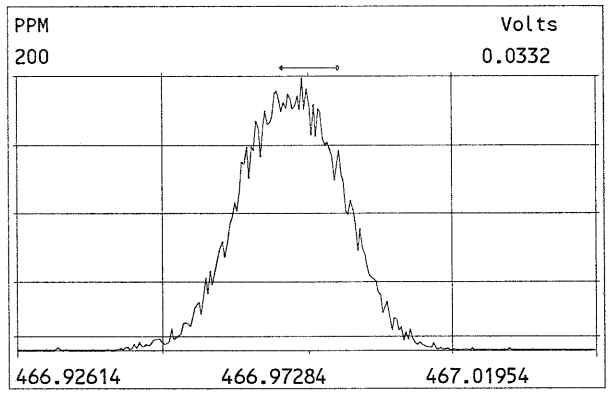
Peak Locate Examination:25-JUL-2019:11:09 File:25JUL19Z
Experiment:1668PCB Function:6 Reference:PFK

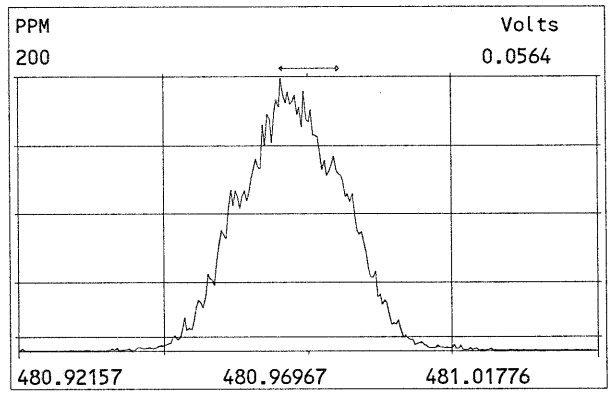


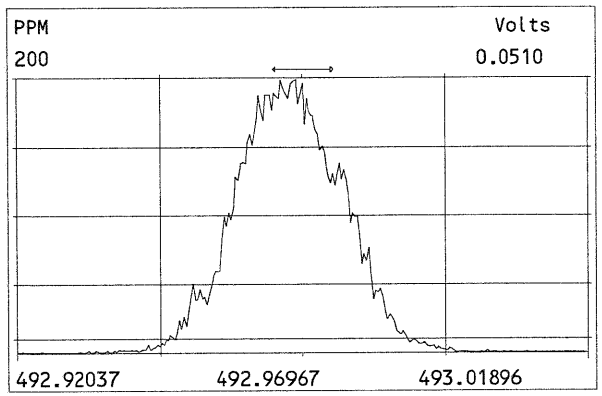


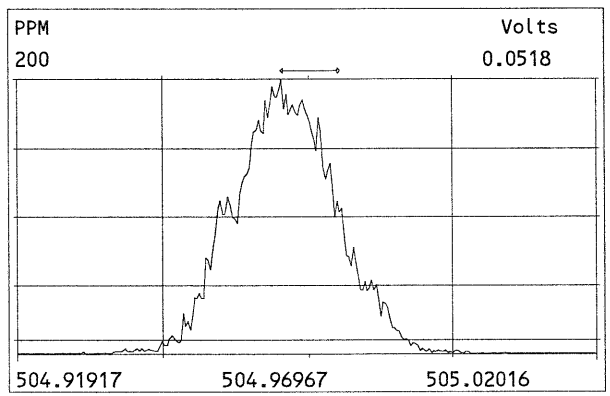


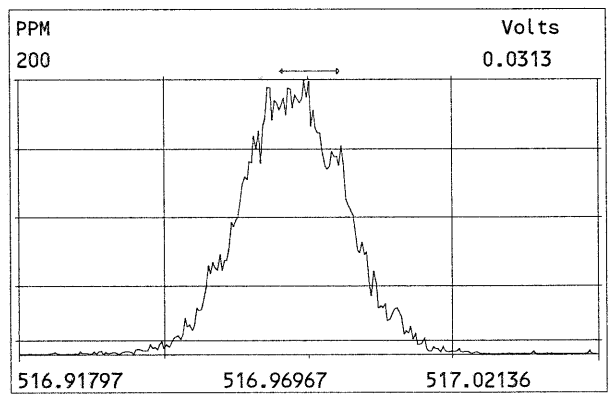




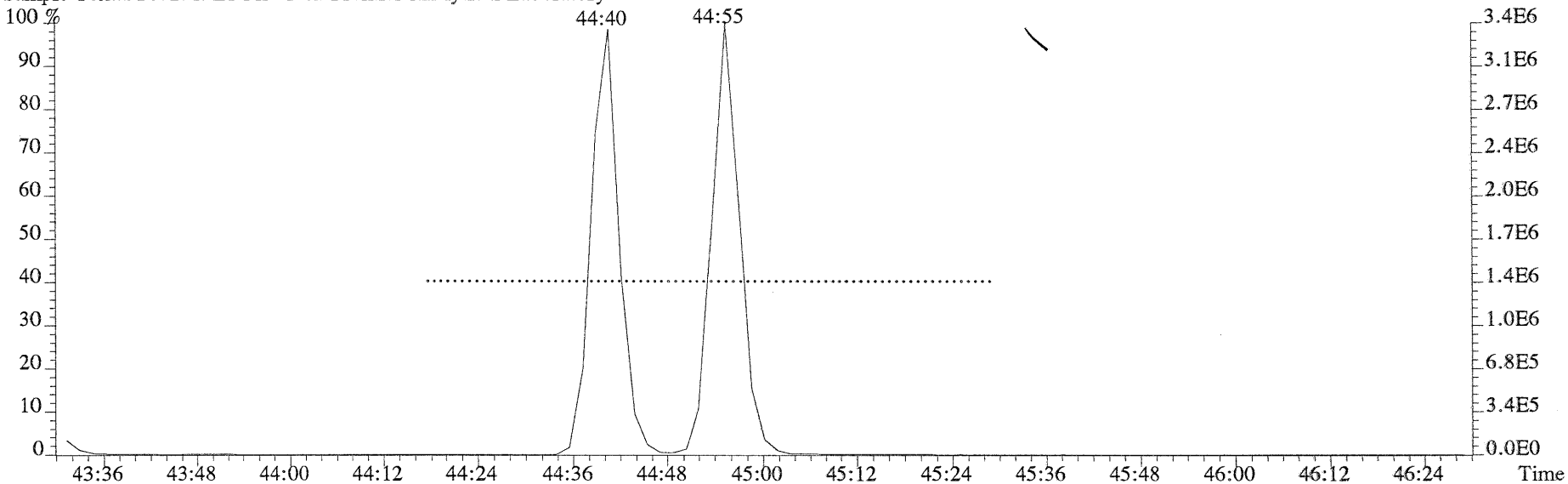




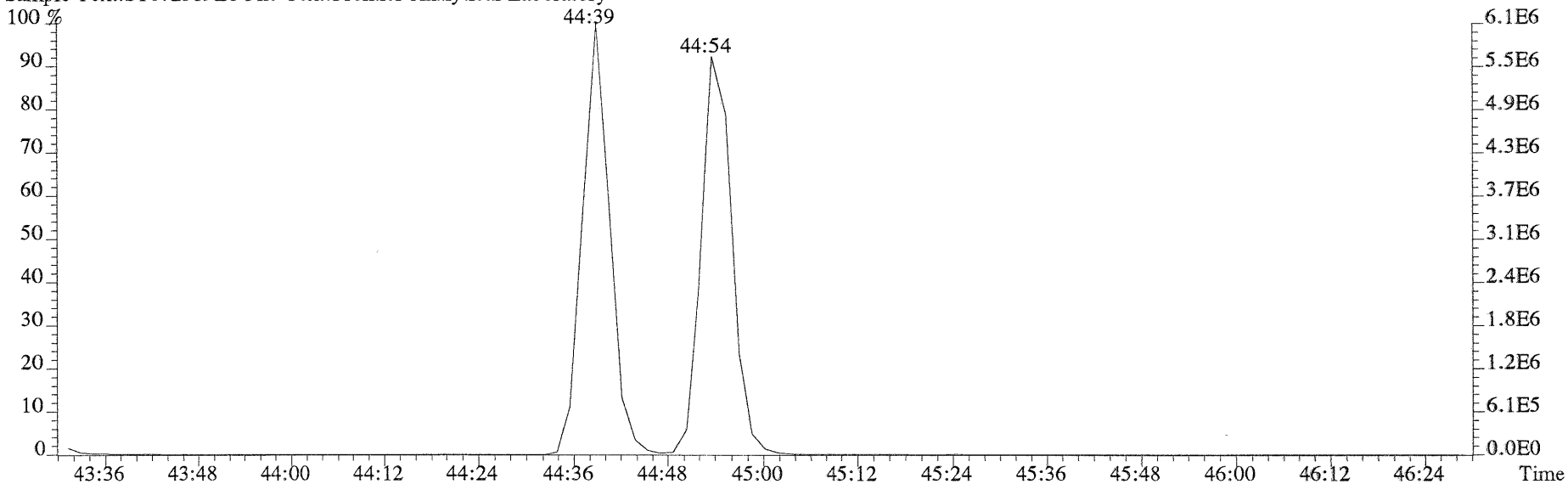




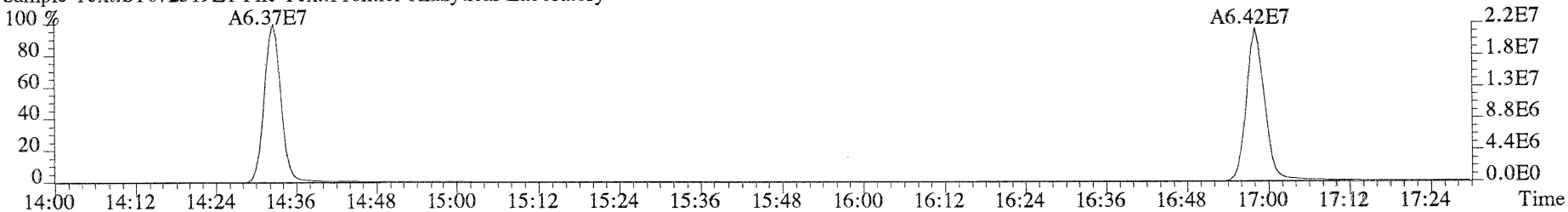
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



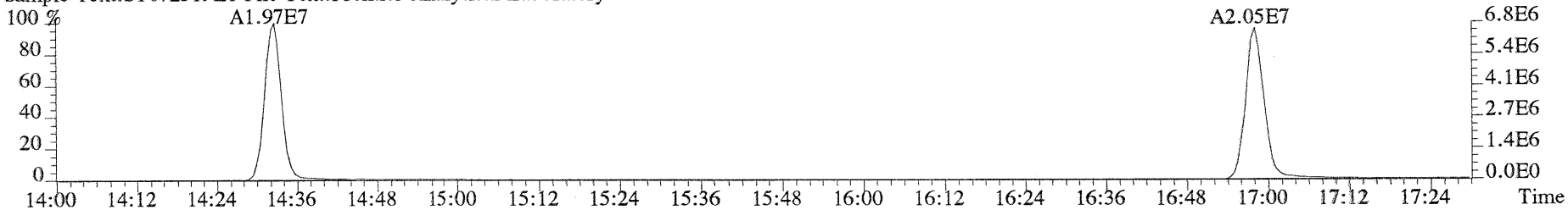
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



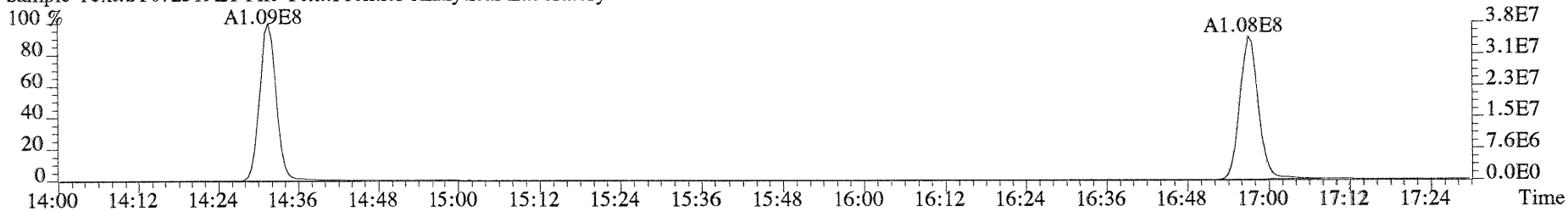
File:25JUL19Z #1-784 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



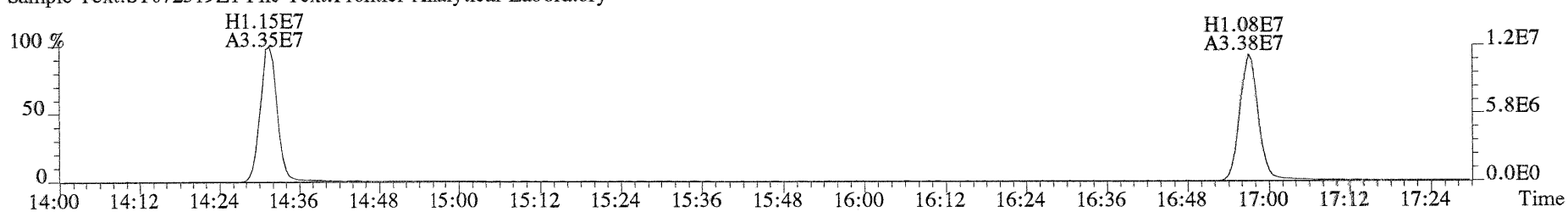
File:25JUL19Z #1-784 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



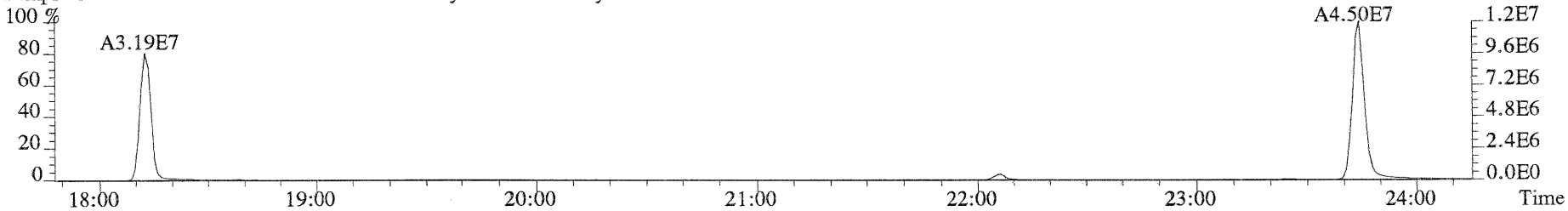
File:25JUL19Z #1-784 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



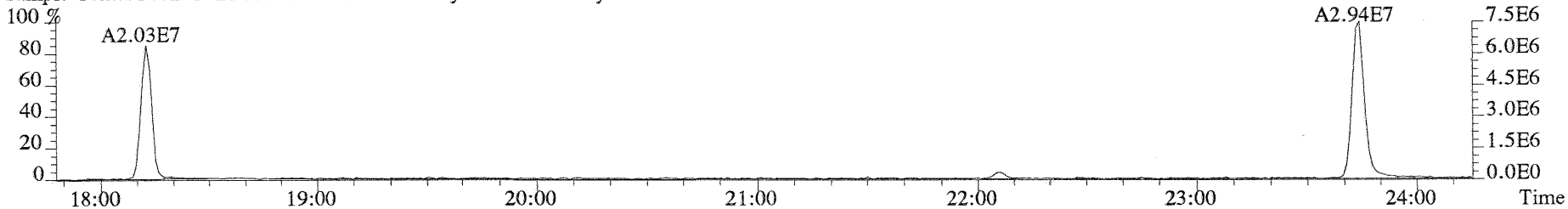
File:25JUL19Z #1-784 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



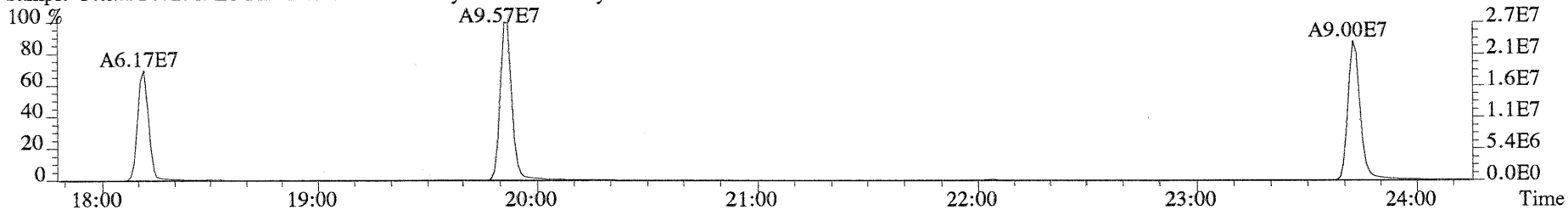
File:25JUL19Z #1-520 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



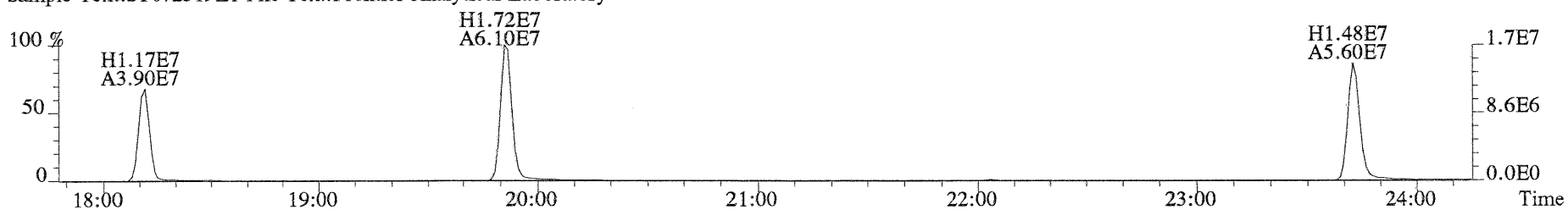
File:25JUL19Z #1-520 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
223.9975 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



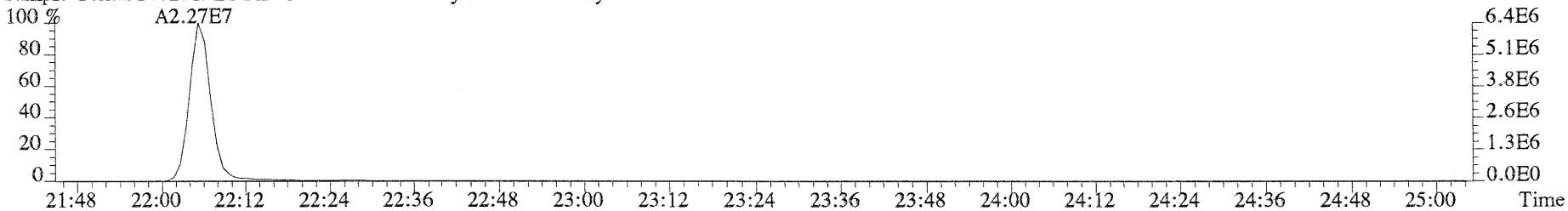
File:25JUL19Z #1-520 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



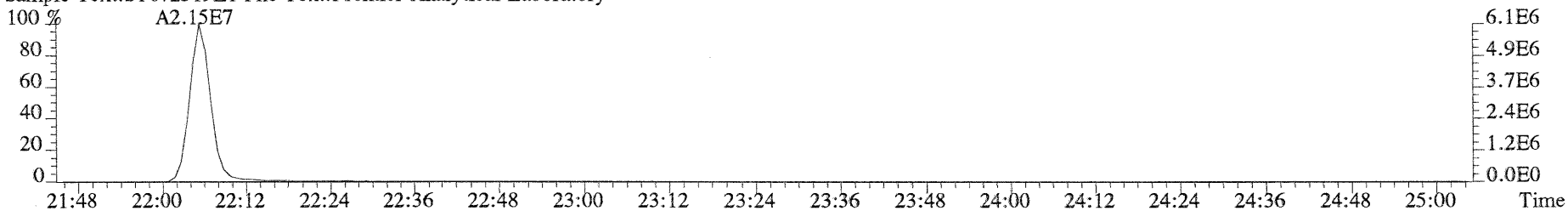
File:25JUL19Z #1-520 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



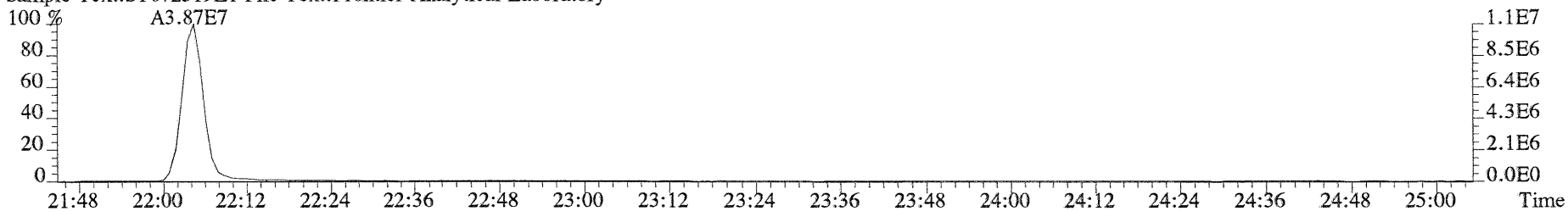
File:25JUL19Z #1-520 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



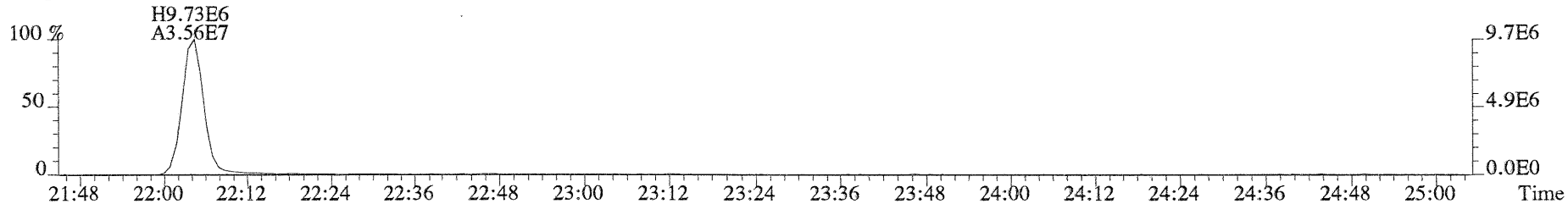
File:25JUL19Z #1-520 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



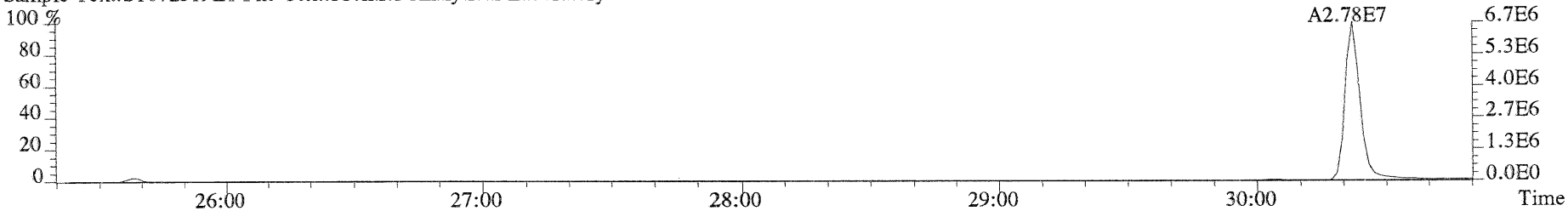
File:25JUL19Z #1-520 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



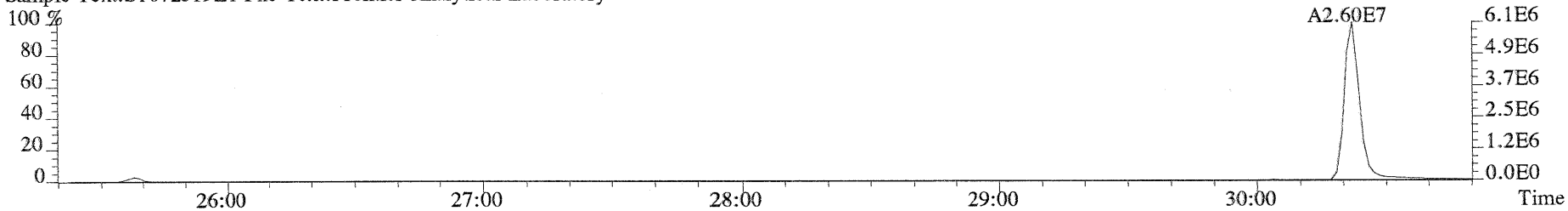
File:25JUL19Z #1-520 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



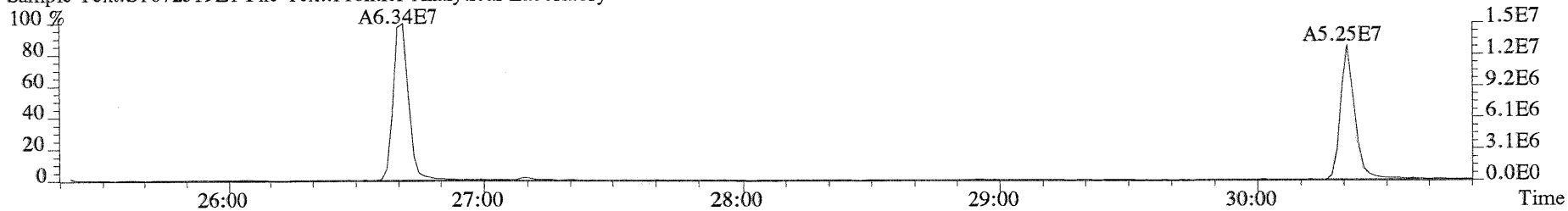
File:25JUL19Z #1-401 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



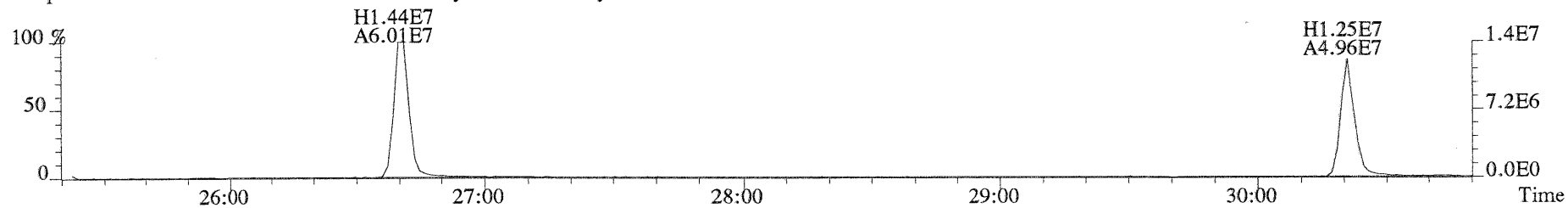
File:25JUL19Z #1-401 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



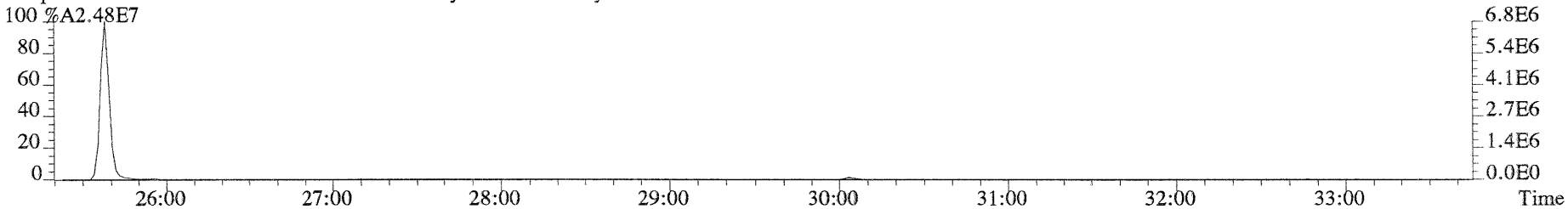
File:25JUL19Z #1-401 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



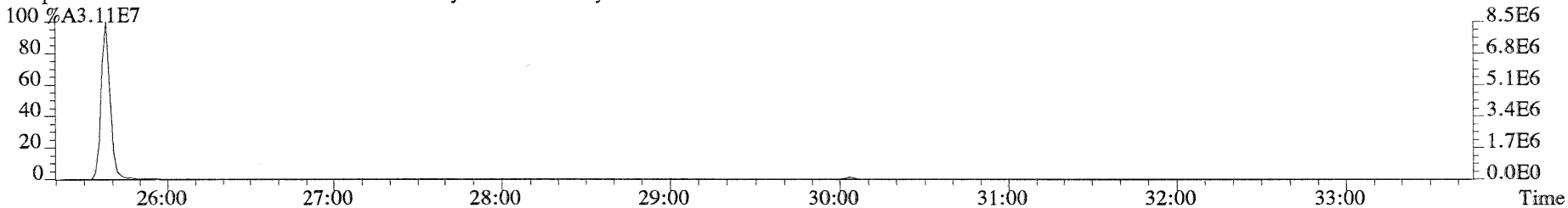
File:25JUL19Z #1-401 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



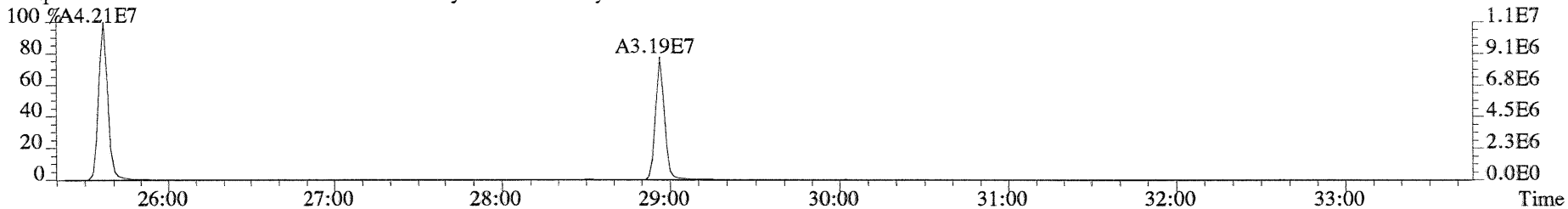
File:25JUL19Z #1-401 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



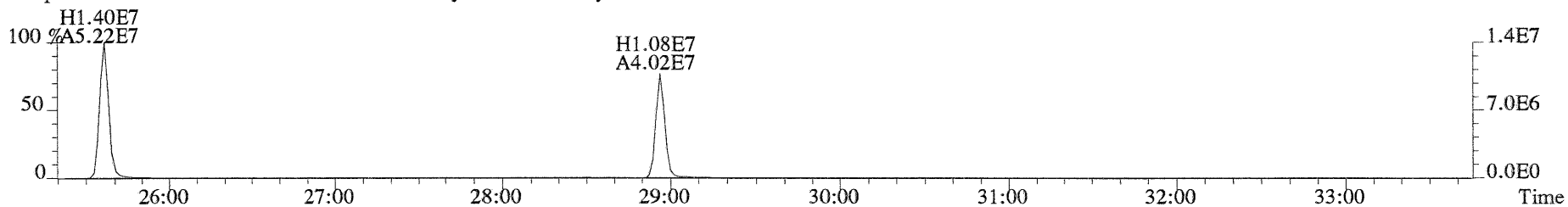
File:25JUL19Z #1-401 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



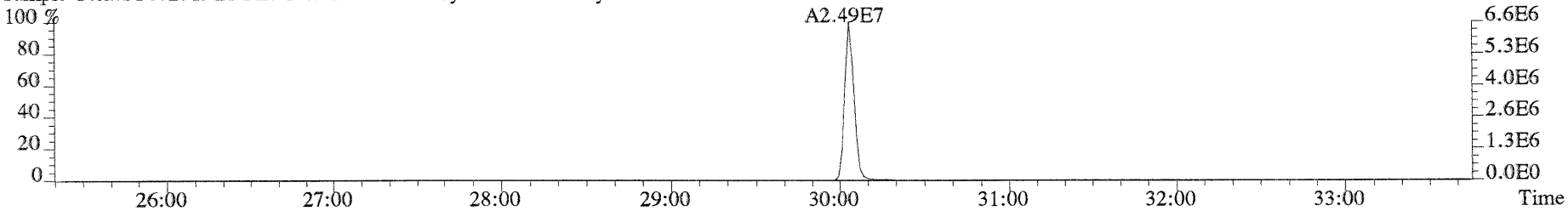
File:25JUL19Z #1-401 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



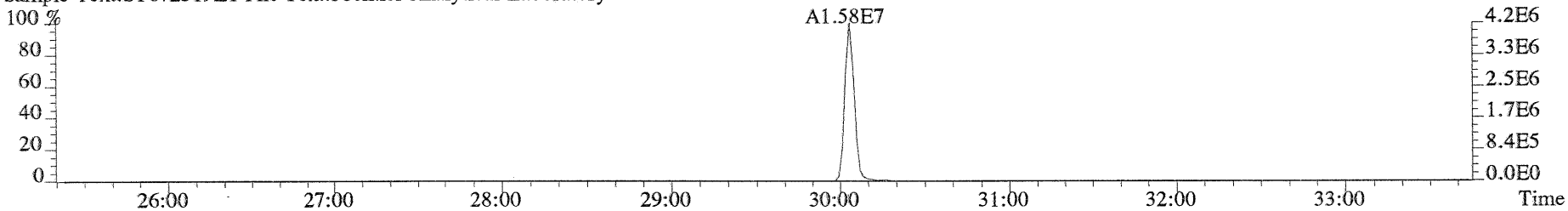
File:25JUL19Z #1-401 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



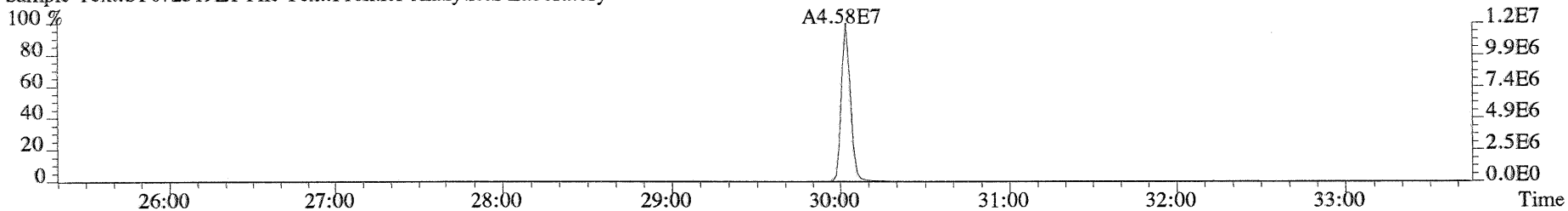
File:25JUL19Z #1-401 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



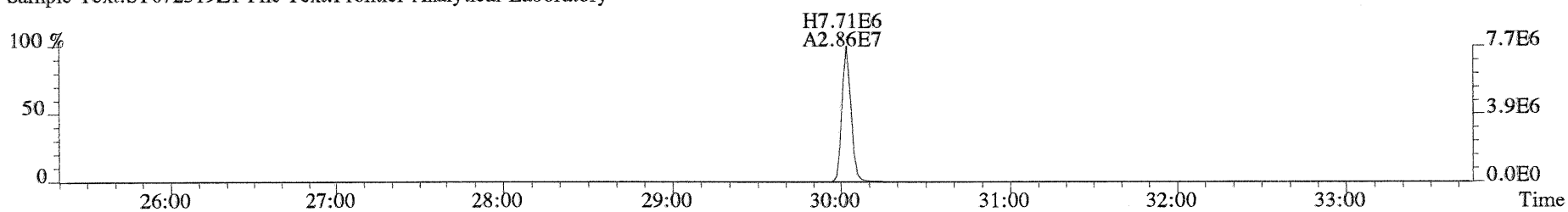
File:25JUL19Z #1-401 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



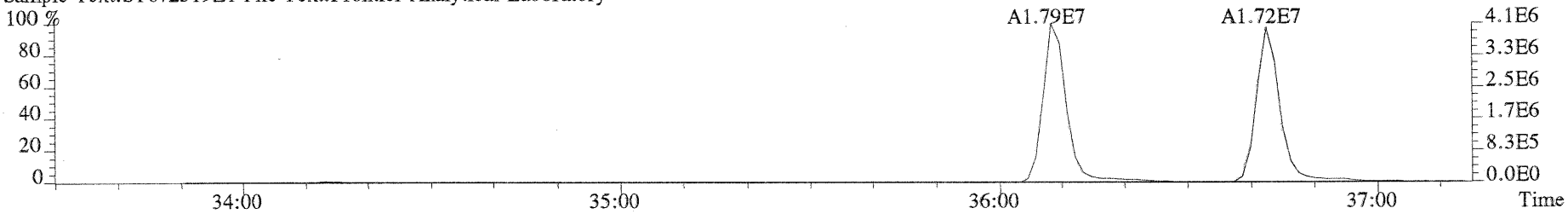
File:25JUL19Z #1-401 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



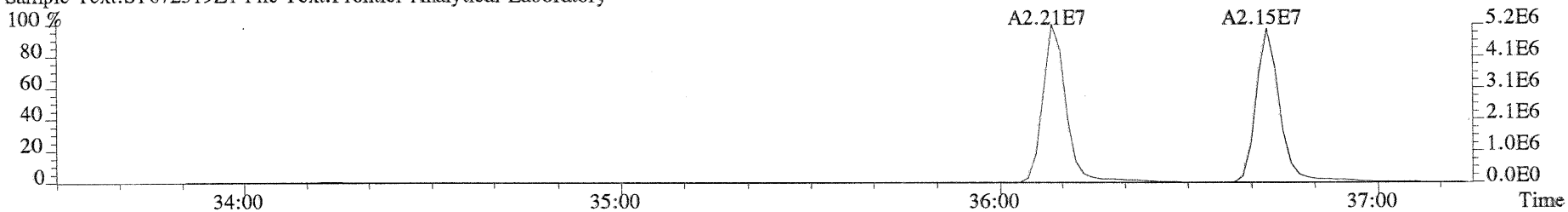
File:25JUL19Z #1-401 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



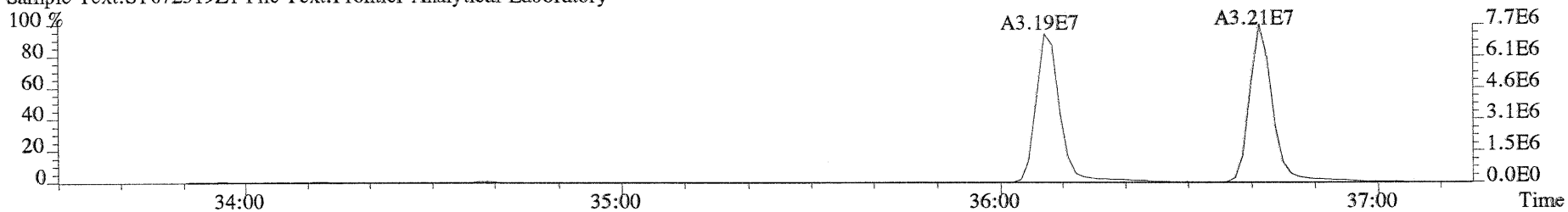
File:25JUL19Z #1-181 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



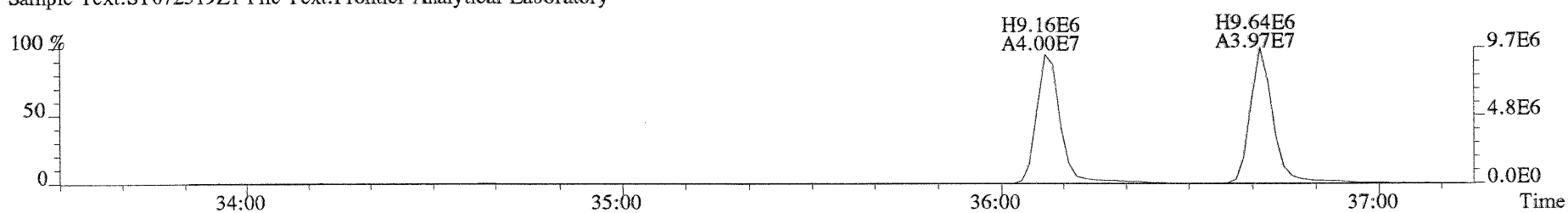
File:25JUL19Z #1-181 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



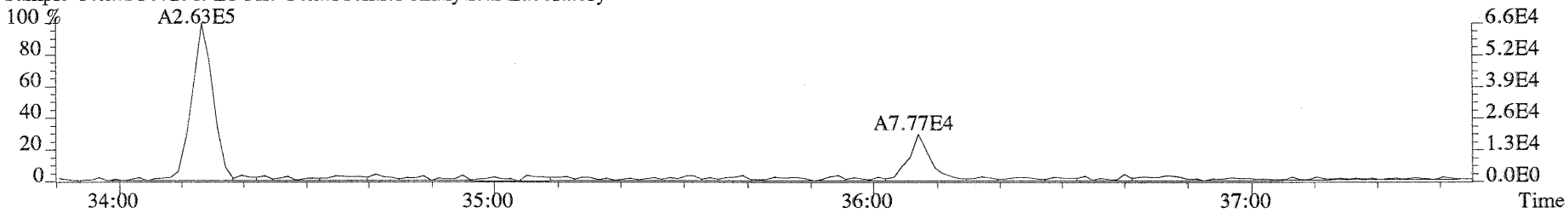
File:25JUL19Z #1-181 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



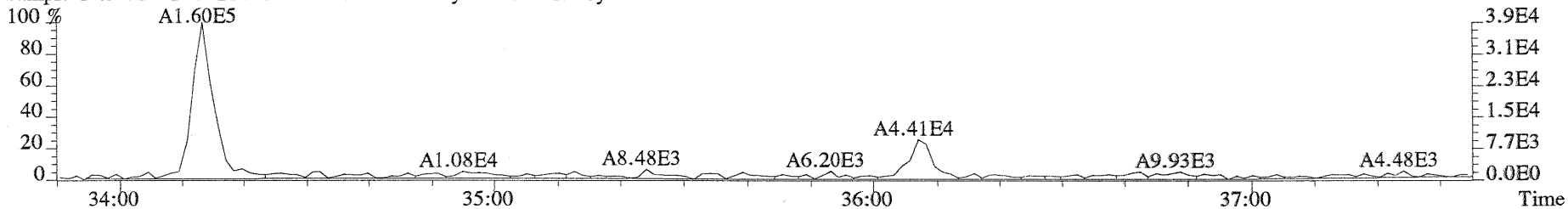
File:25JUL19Z #1-181 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



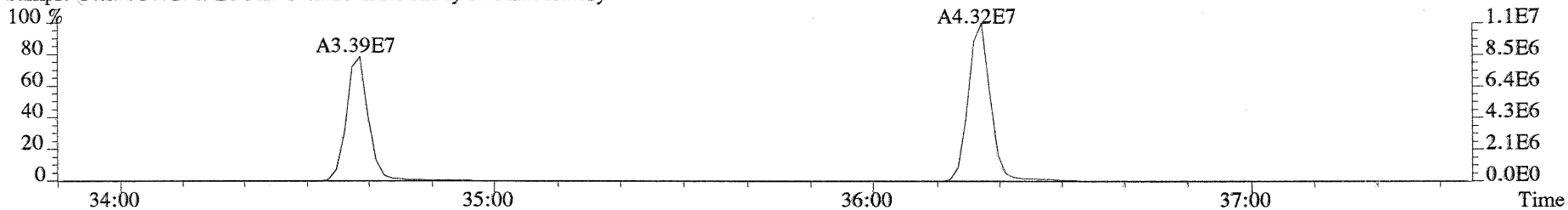
File:25JUL19Z #1-181 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



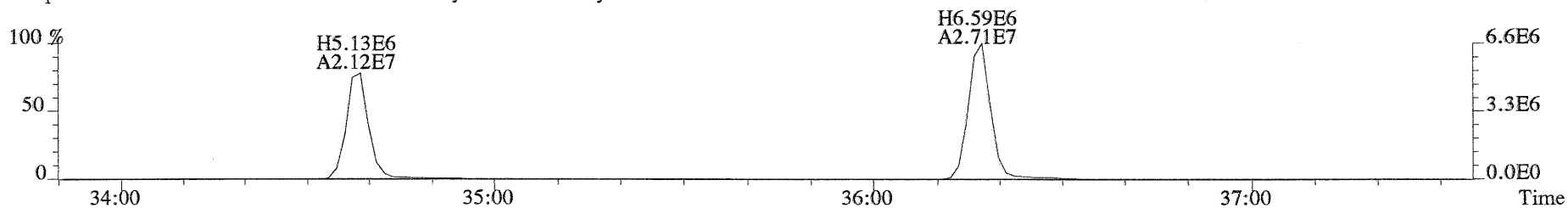
File:25JUL19Z #1-181 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



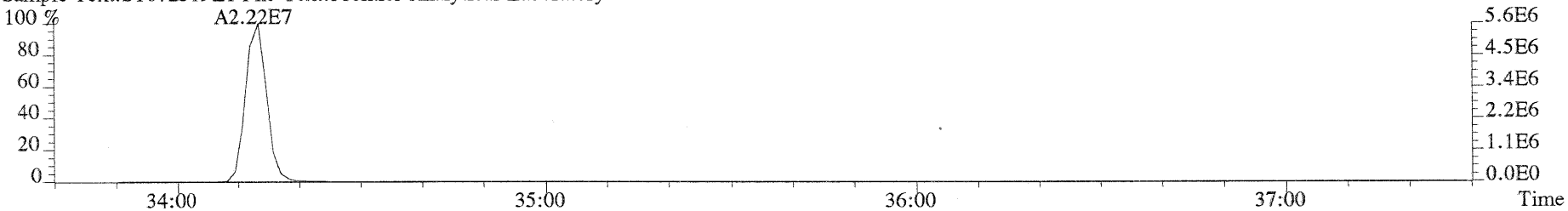
File:25JUL19Z #1-181 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



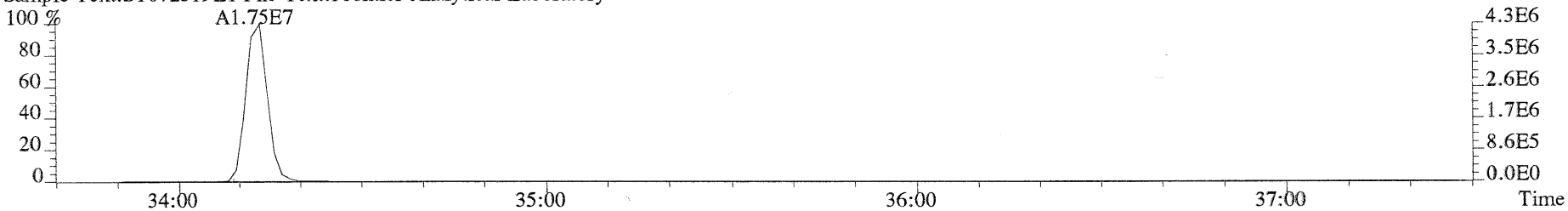
File:25JUL19Z #1-181 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



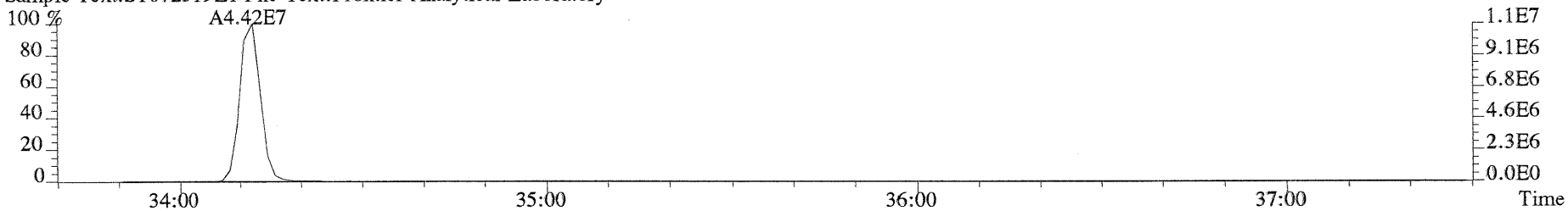
File:25JUL19Z #1-181 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



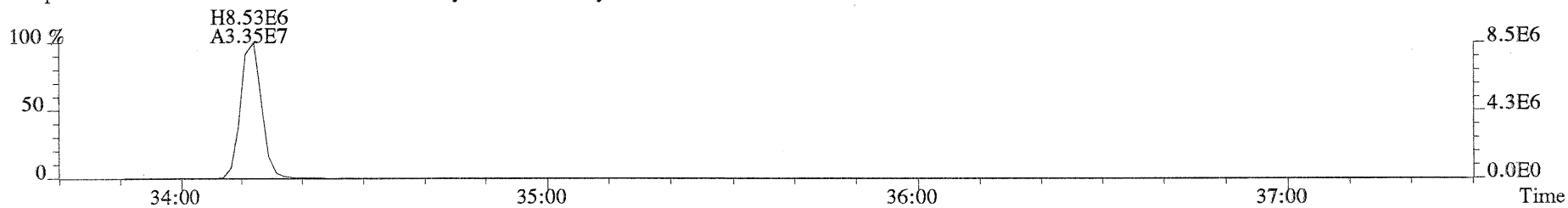
File:25JUL19Z #1-181 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



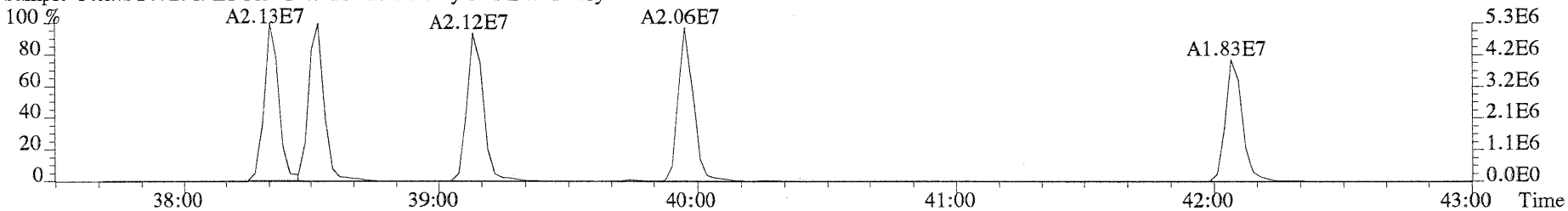
File:25JUL19Z #1-181 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



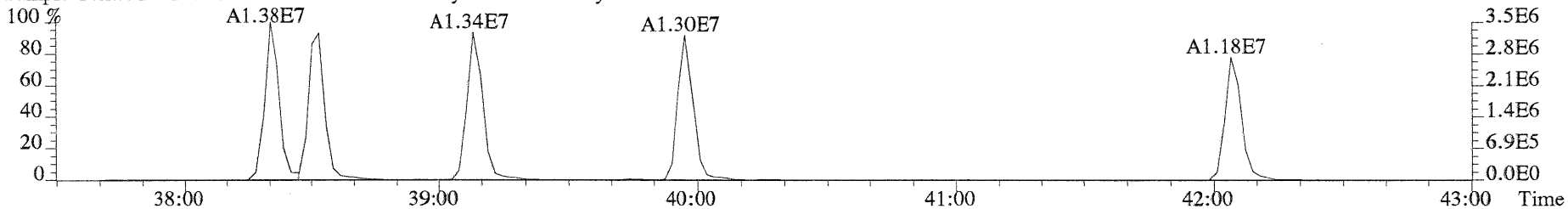
File:25JUL19Z #1-181 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



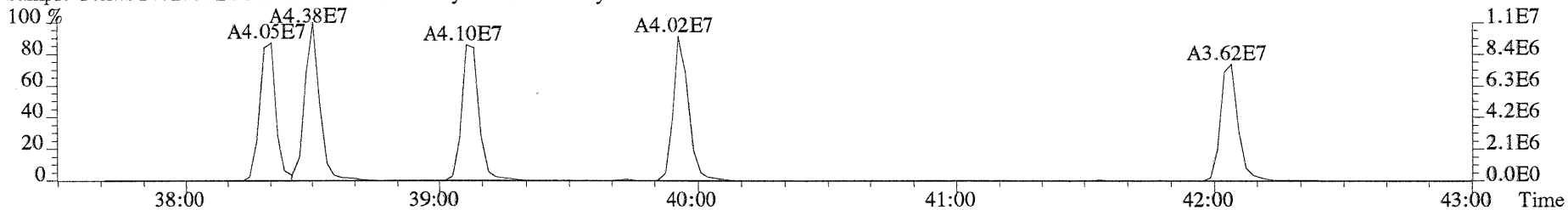
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



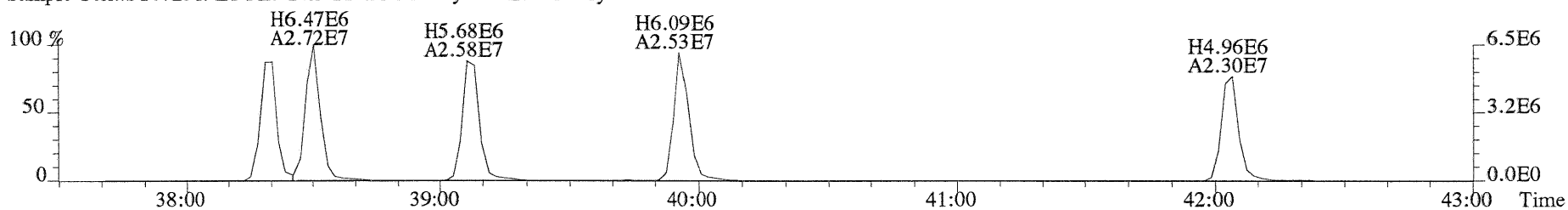
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



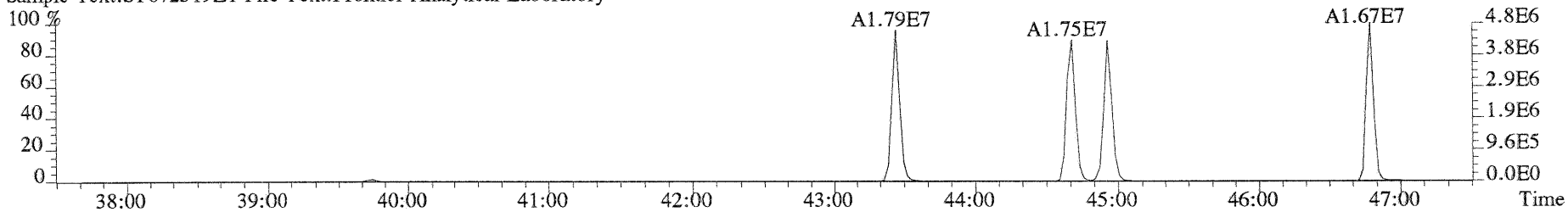
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



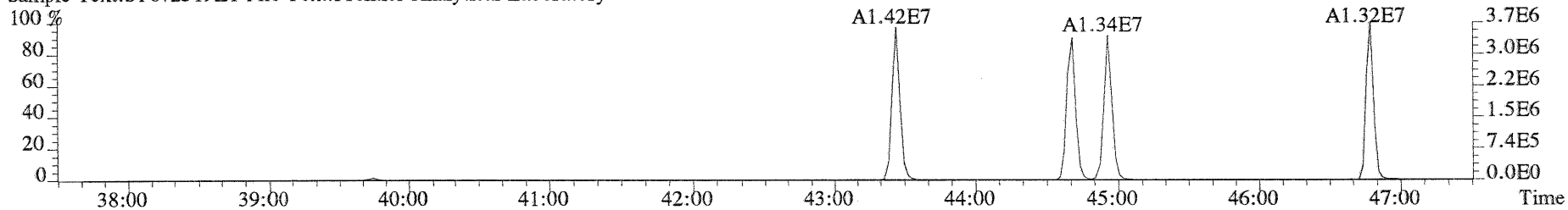
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



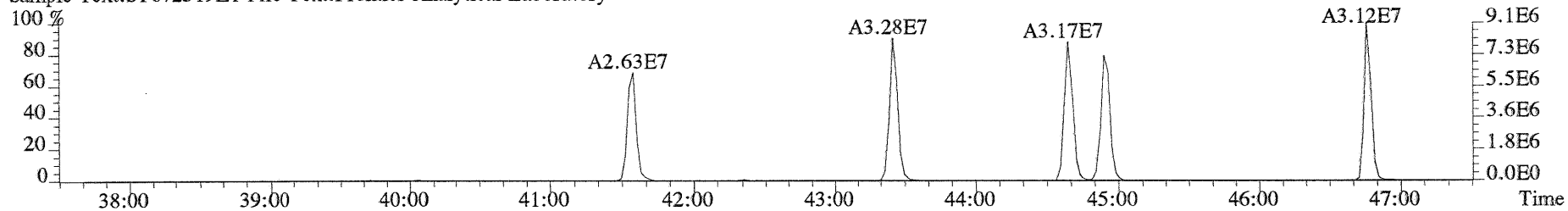
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



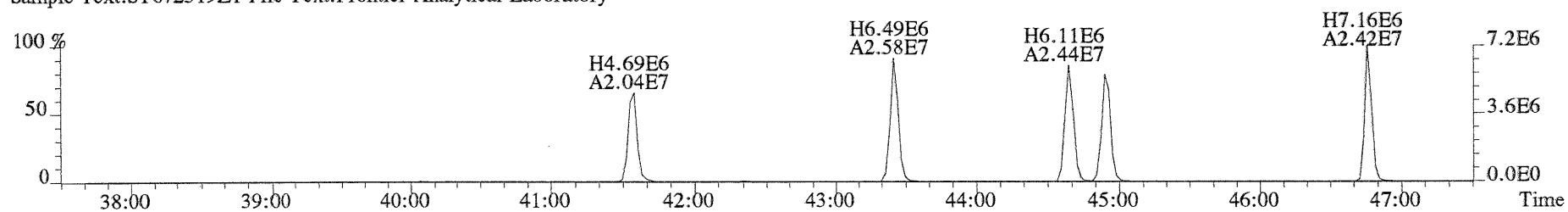
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



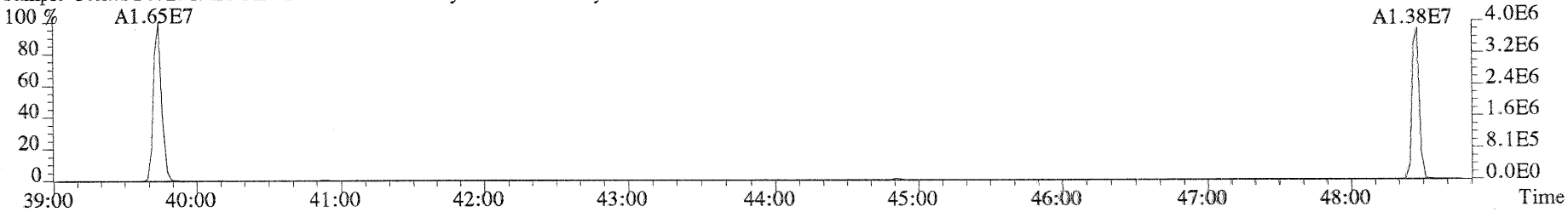
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



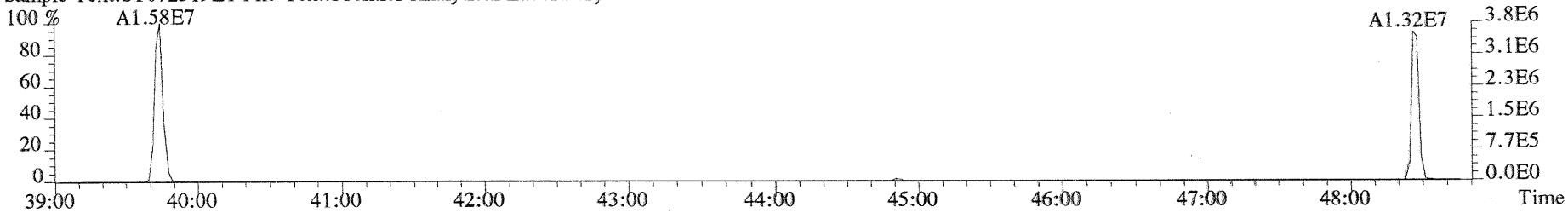
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



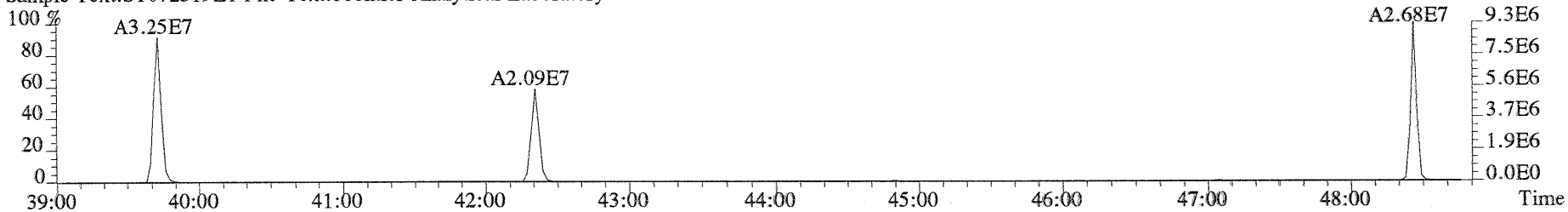
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



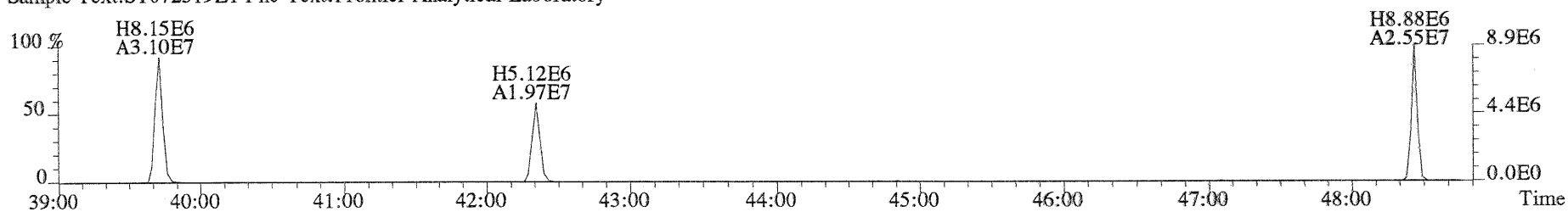
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



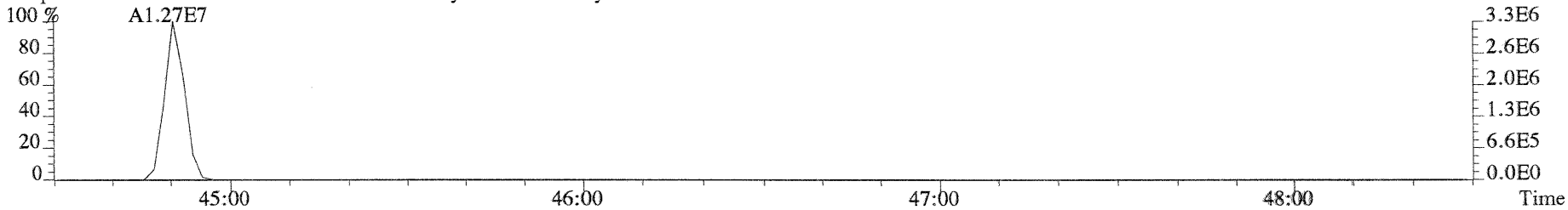
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



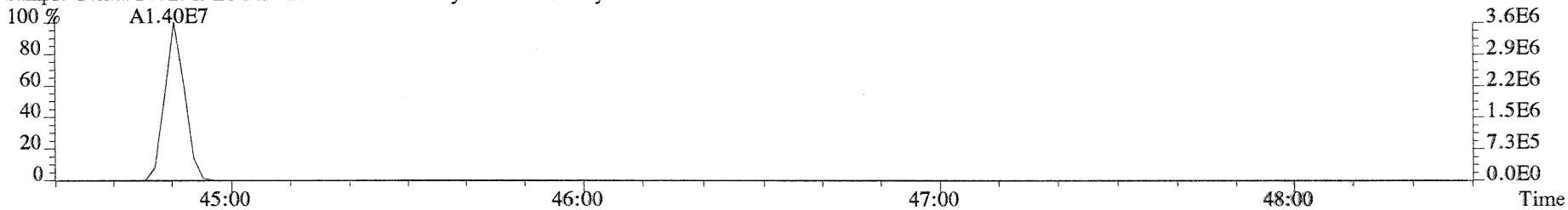
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



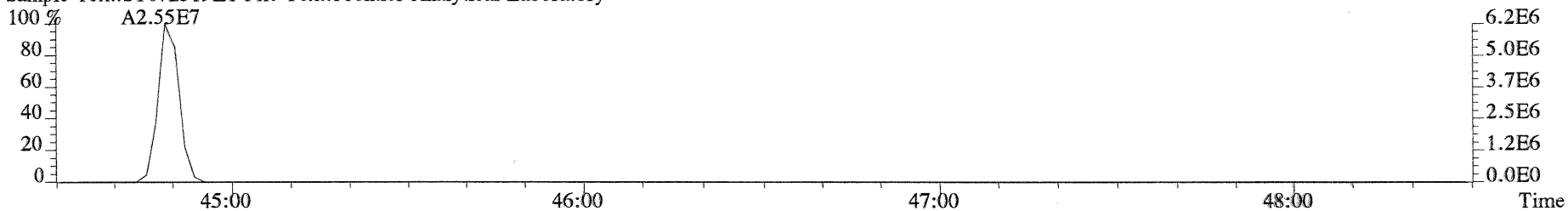
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



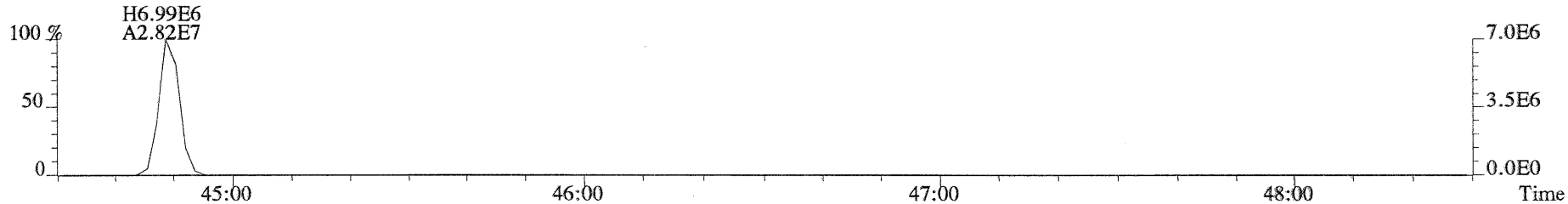
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



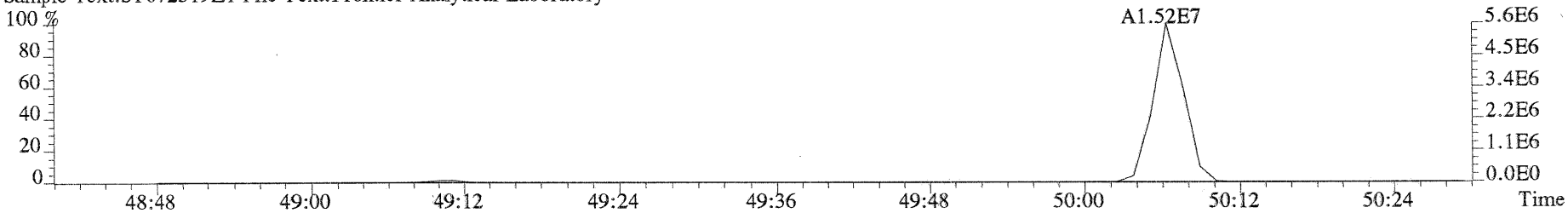
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



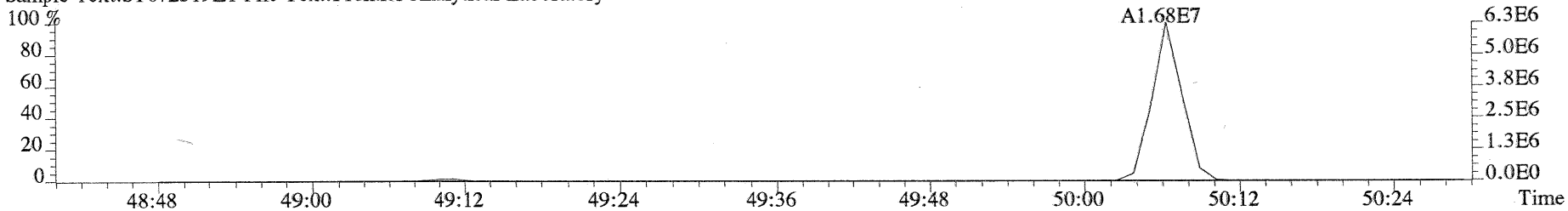
File:25JUL19Z #1-405 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



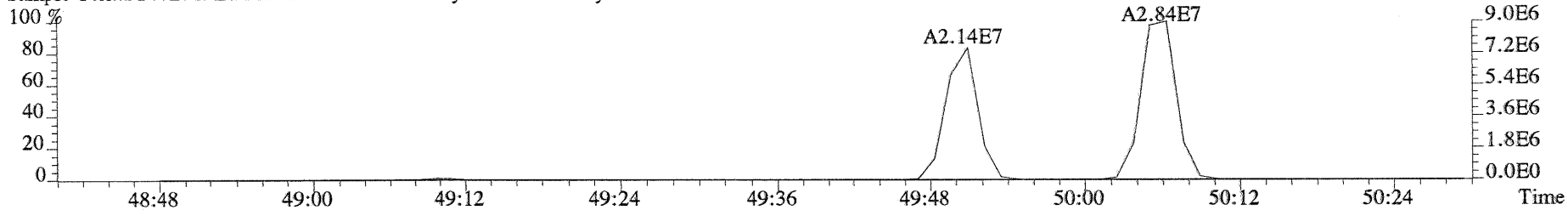
File:25JUL19Z #1-315 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



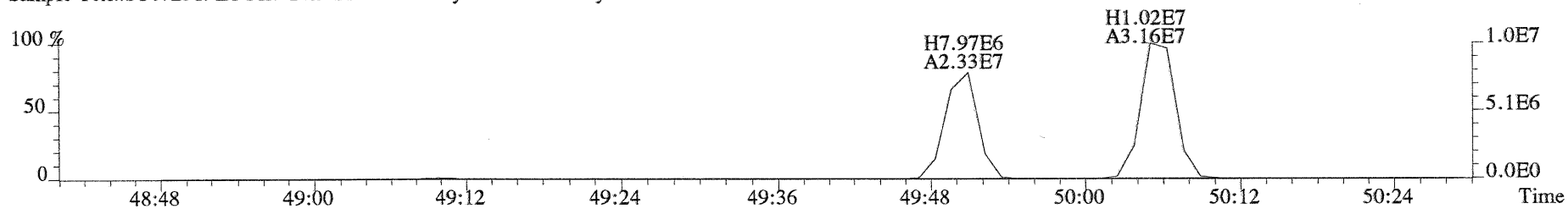
File:25JUL19Z #1-315 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



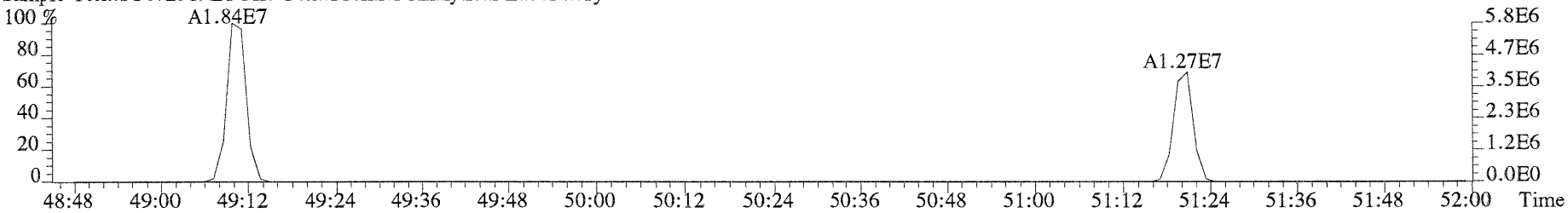
File:25JUL19Z #1-315 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



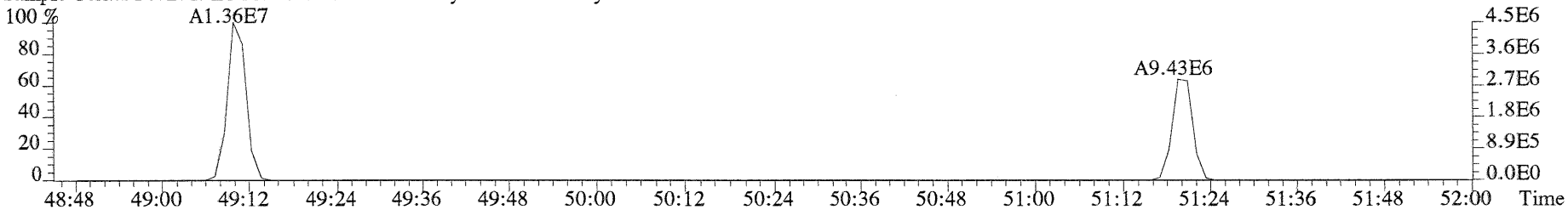
File:25JUL19Z #1-315 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



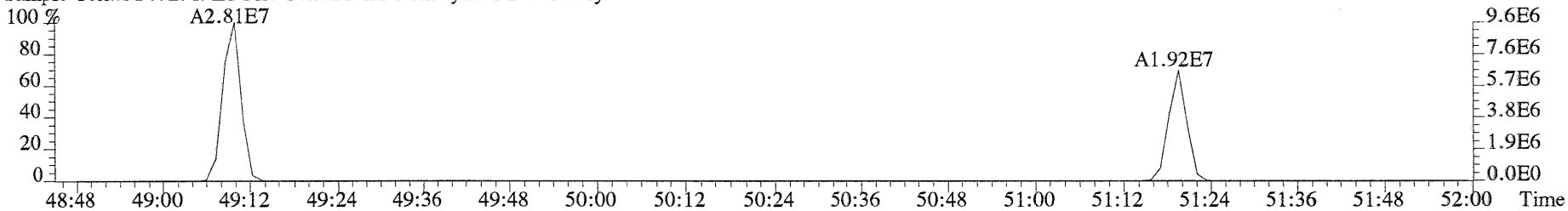
File:25JUL19Z #1-315 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



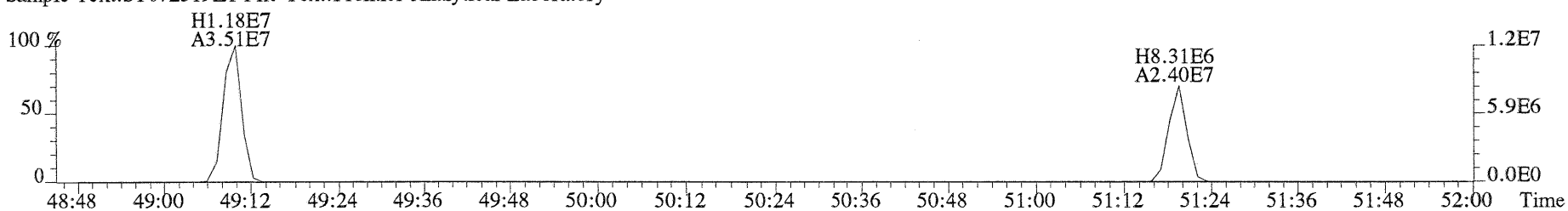
File:25JUL19Z #1-315 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



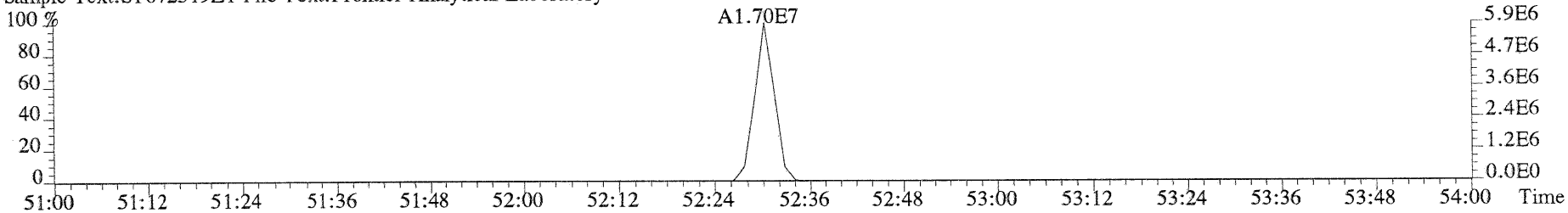
File:25JUL19Z #1-315 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



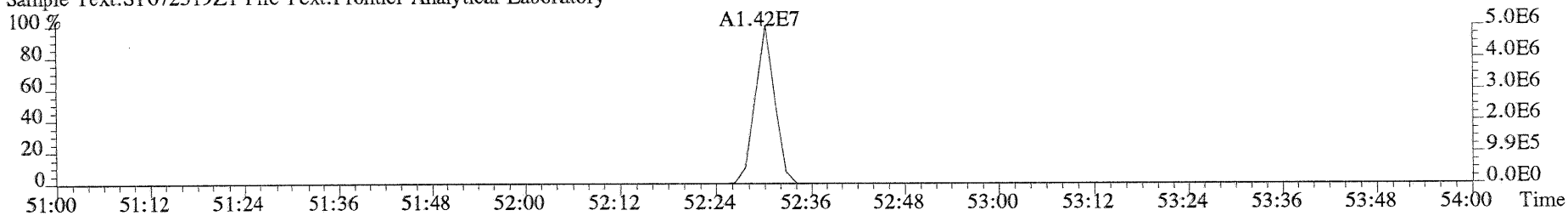
File:25JUL19Z #1-315 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



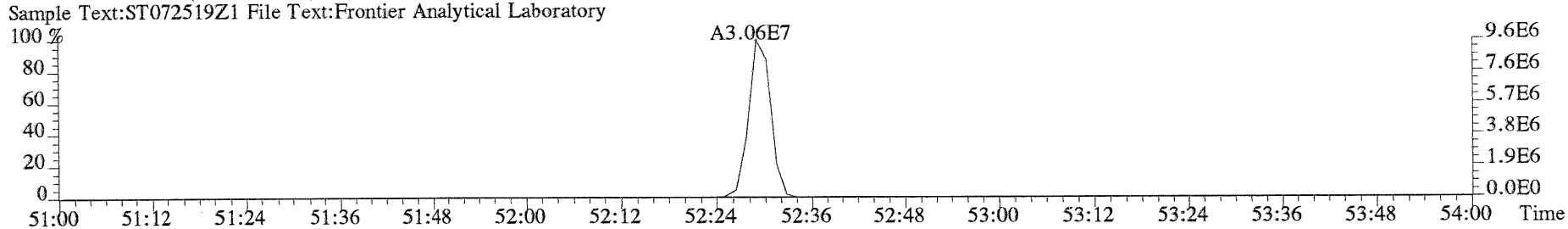
File:25JUL19Z #1-315 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



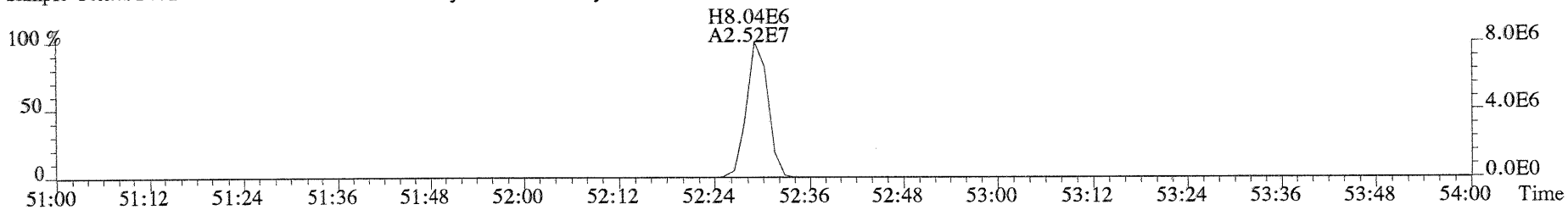
File:25JUL19Z #1-315 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory



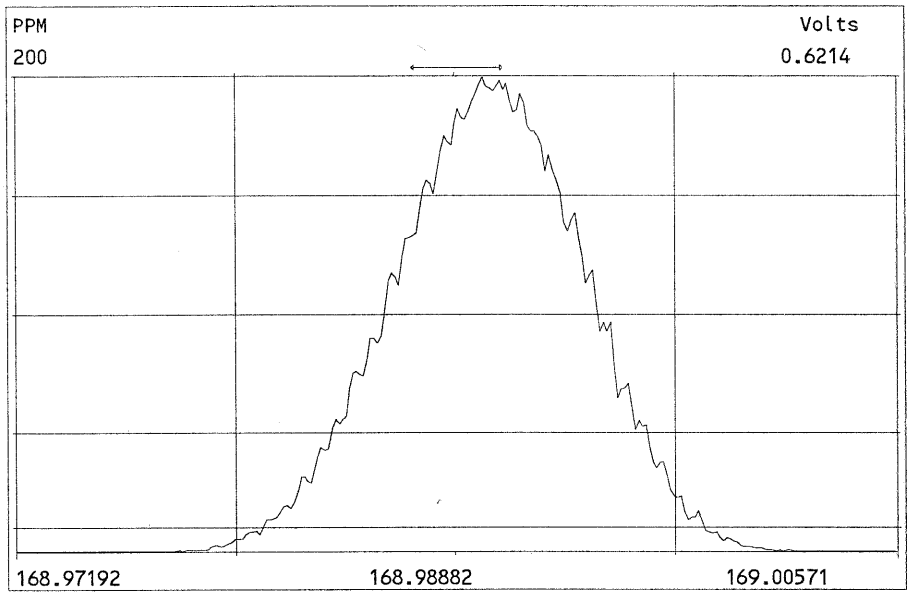
File:25JUL19Z #1-315 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory

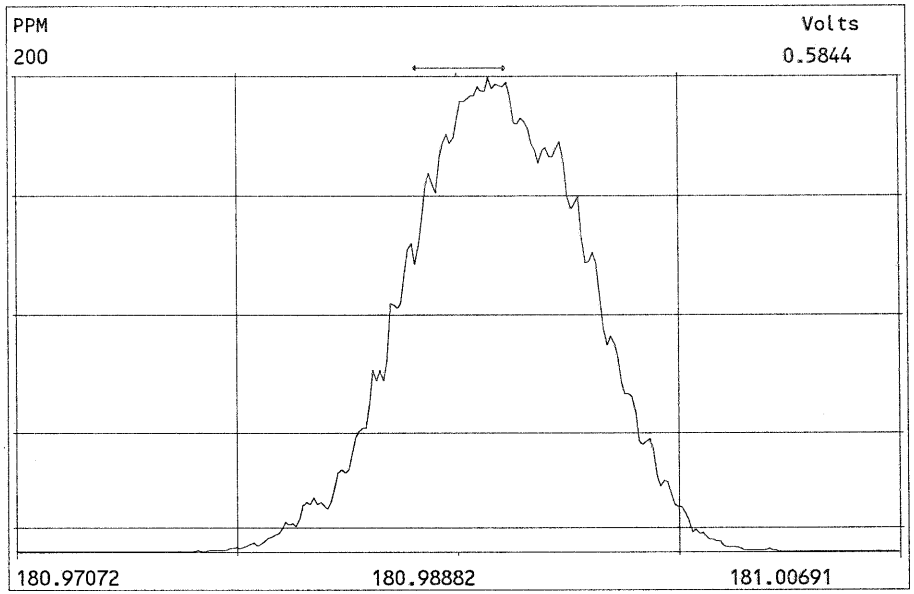


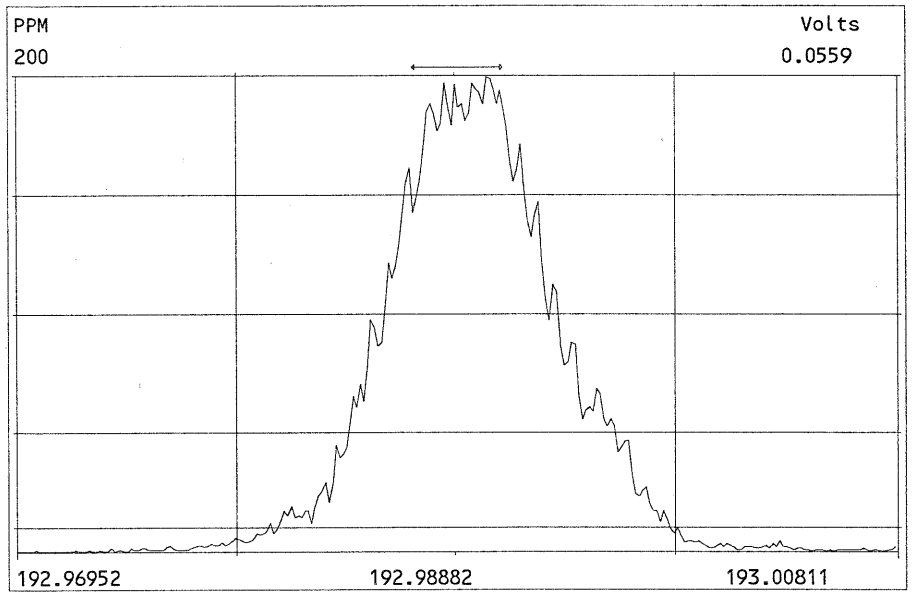
File:25JUL19Z #1-315 Acq:25-JUL-2019 11:10:30 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z1 File Text:Frontier Analytical Laboratory

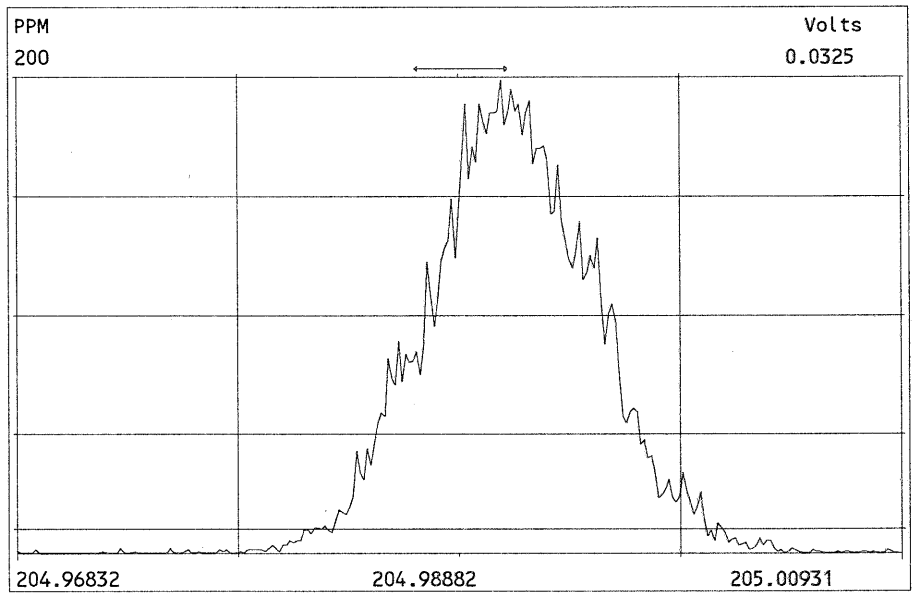


Peak Locate Examination:26-JUL-2019:03:15 File:25JUL19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

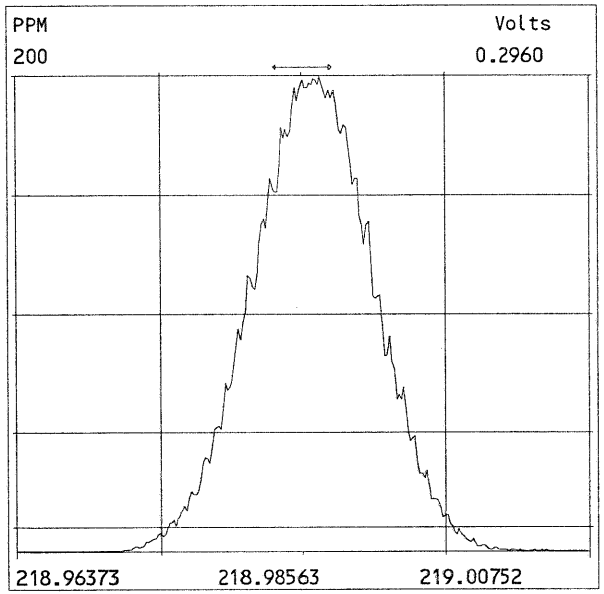


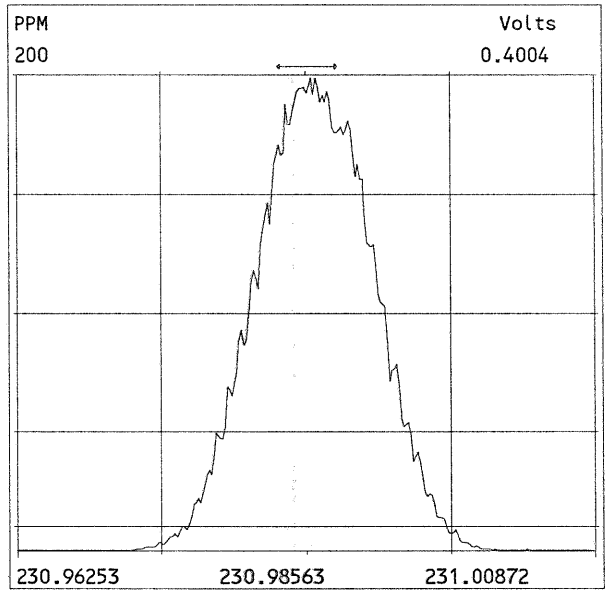


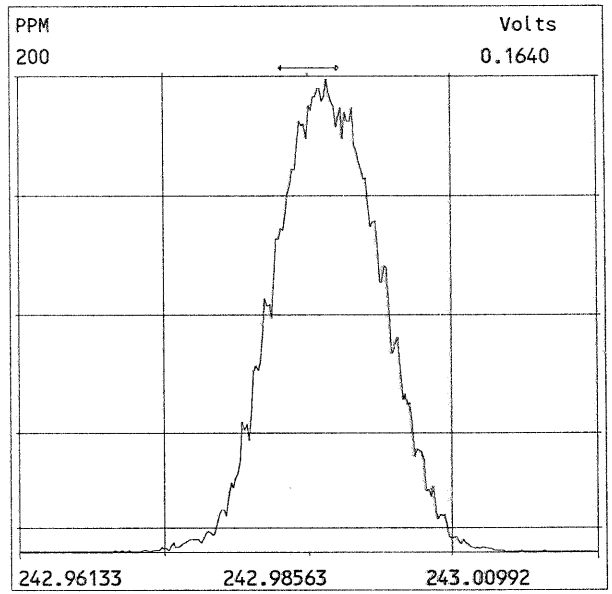


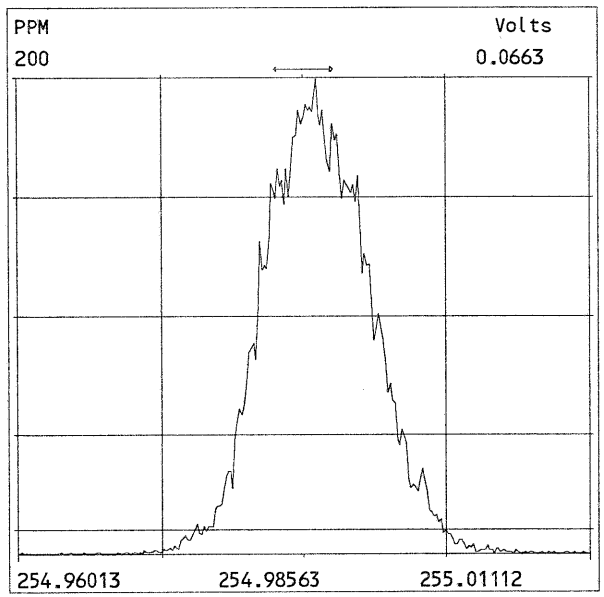


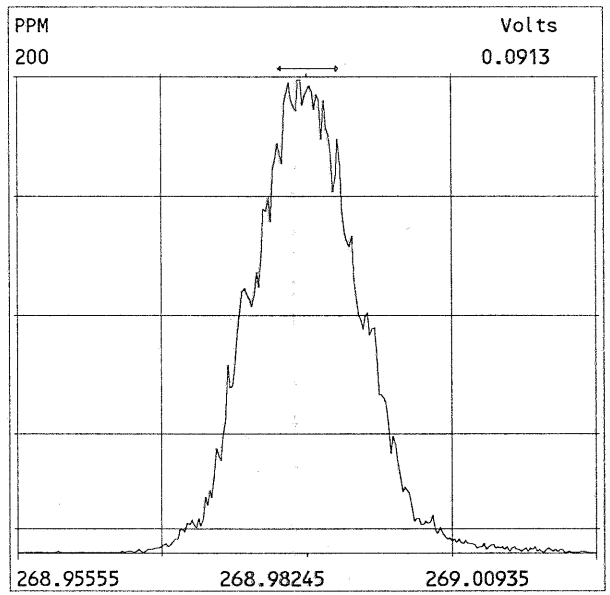
Peak Locate Examination:26-JUL-2019:03:17 File:25JUL19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

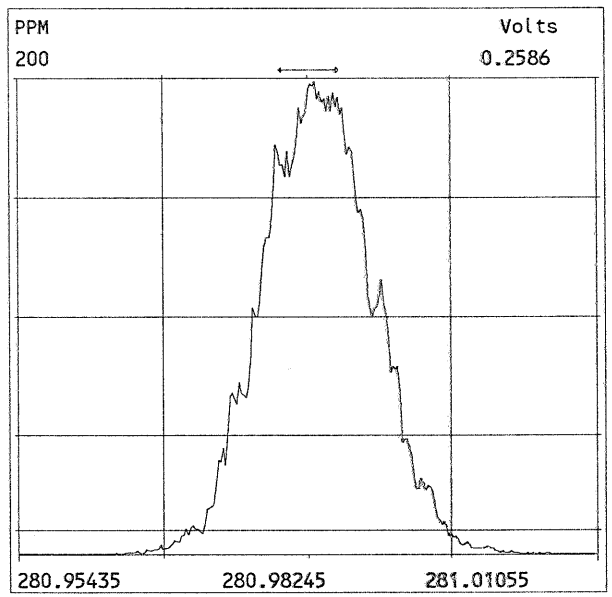




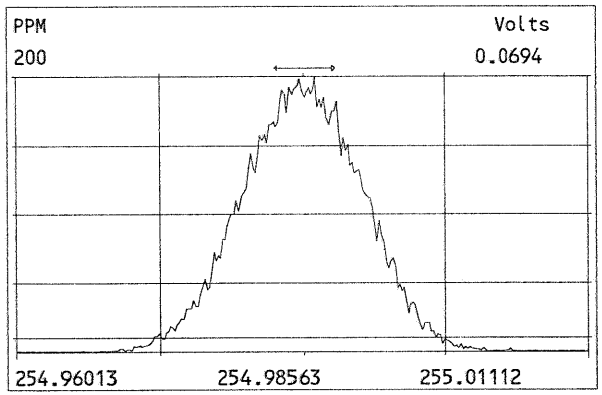


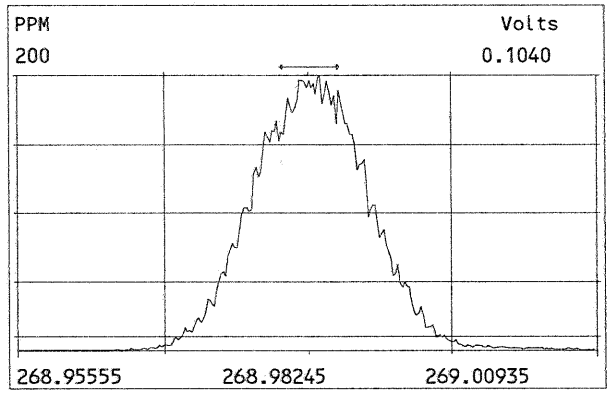


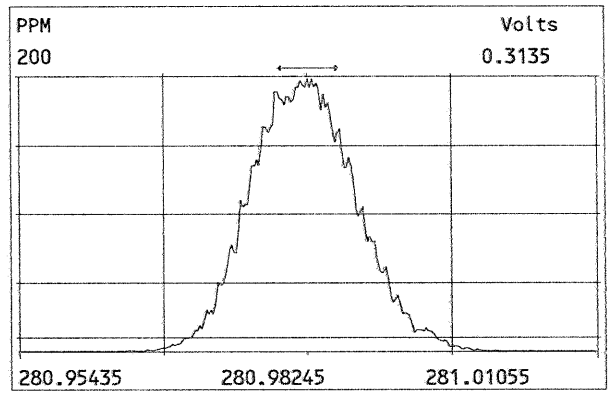


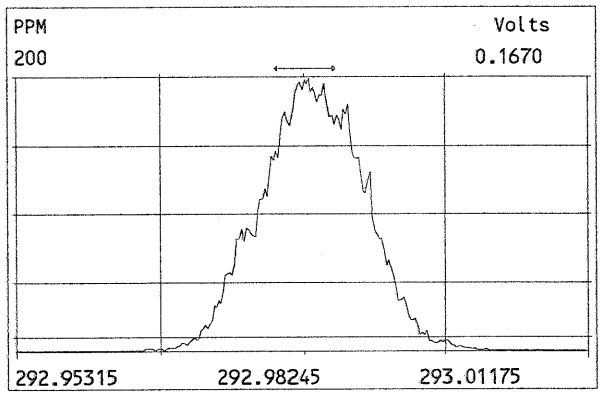


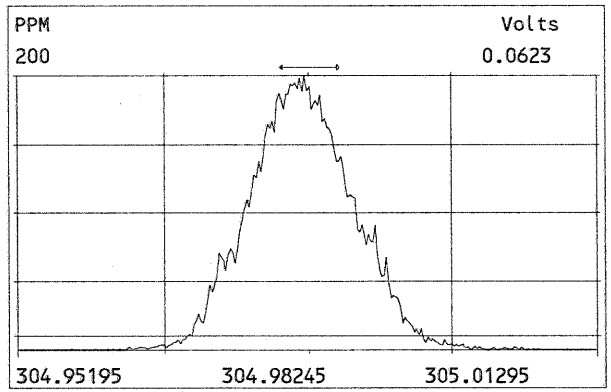
Peak Locate Examination:26-JUL-2019:03:19 File:25JUL19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

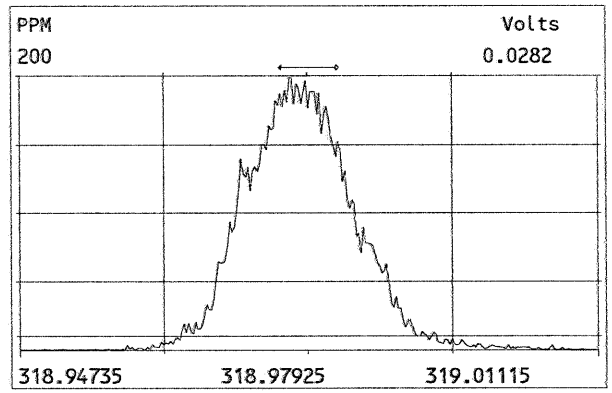


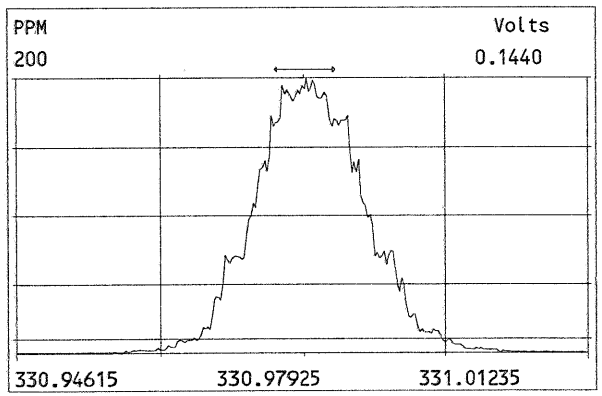


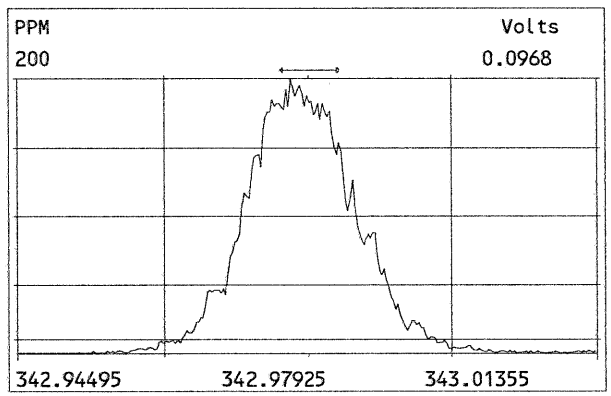




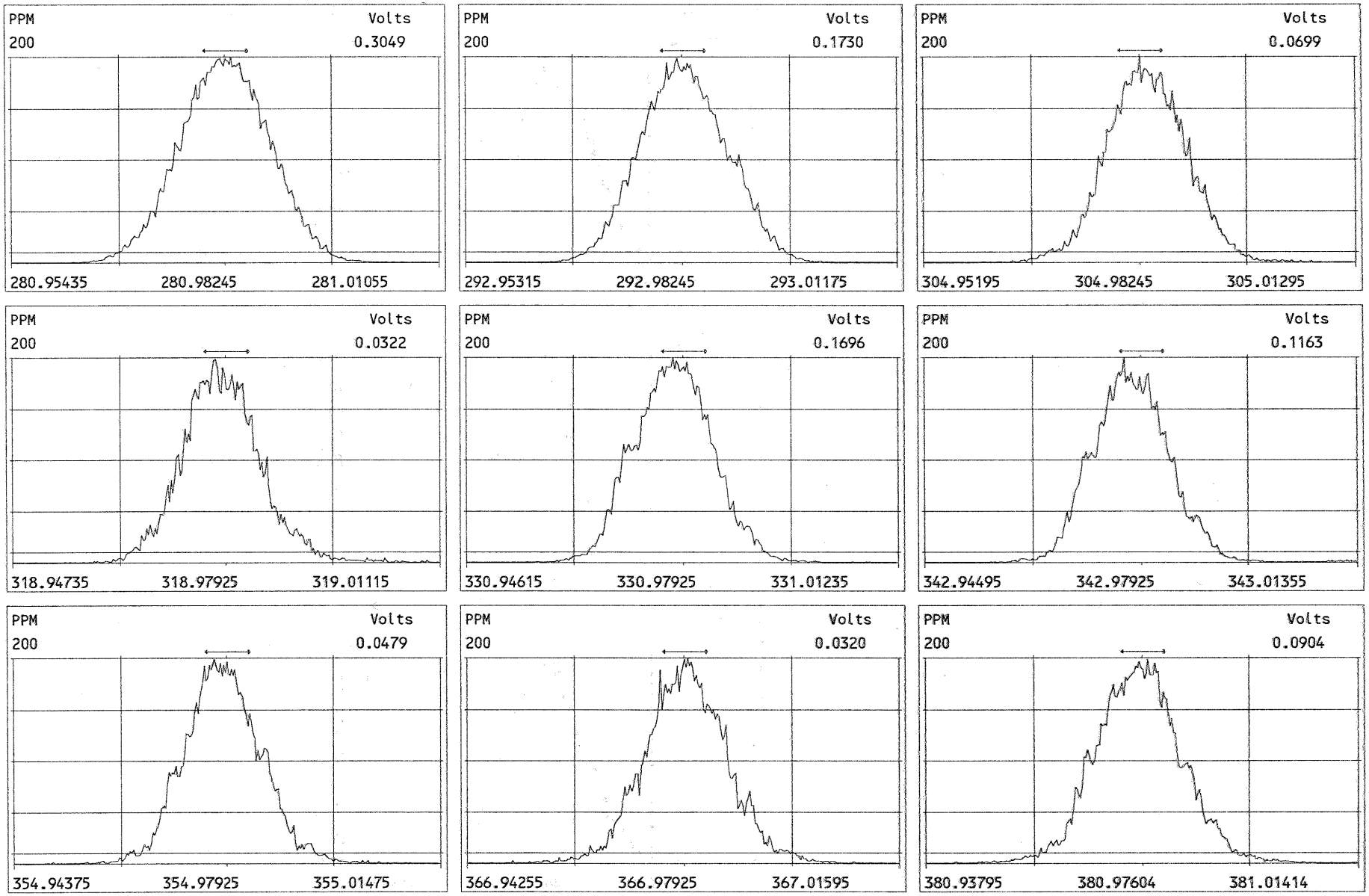




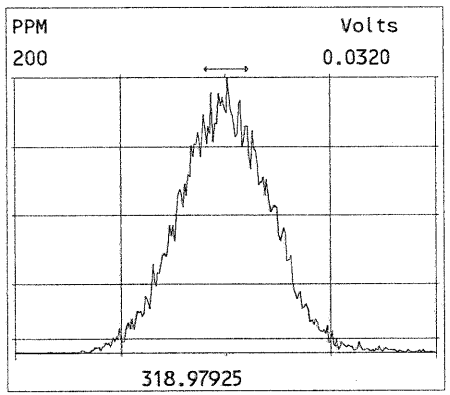


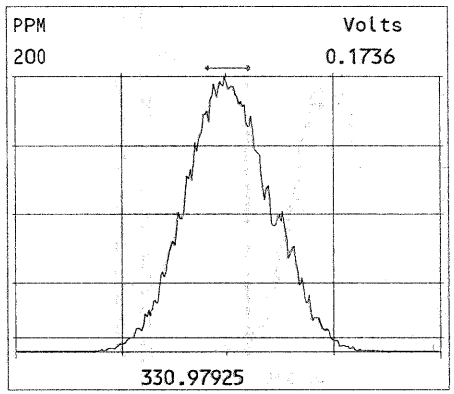


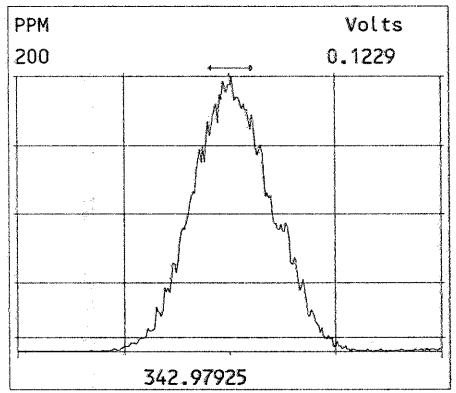
Peak Locate Examination:26-JUL-2019:03:22 File:25JUL19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

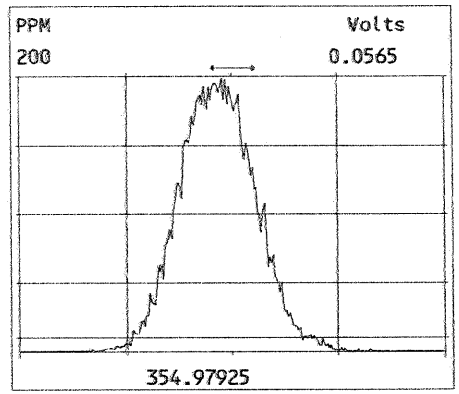


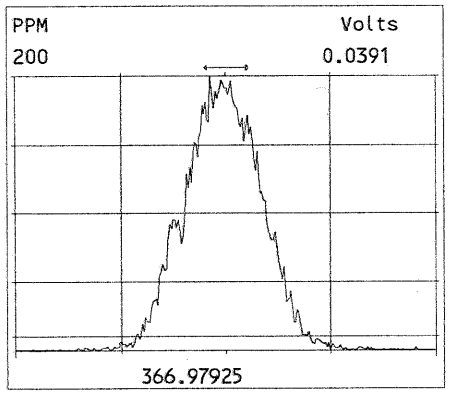
Peak Locate Examination:26-JUL-2019:03:24 File:25JUL19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

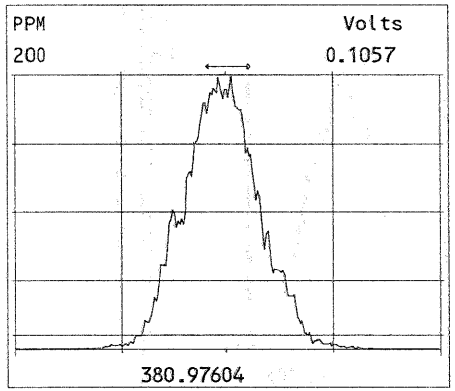


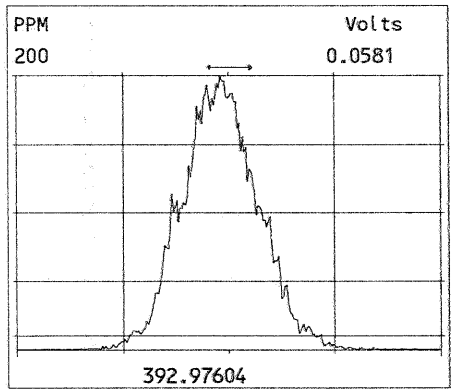


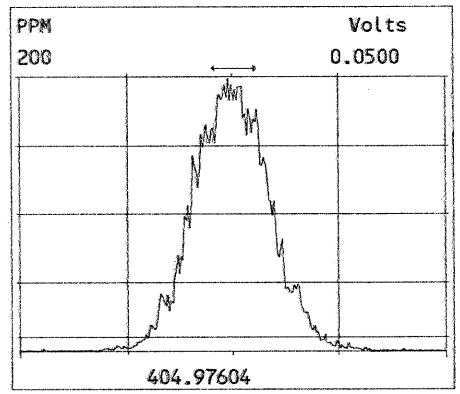


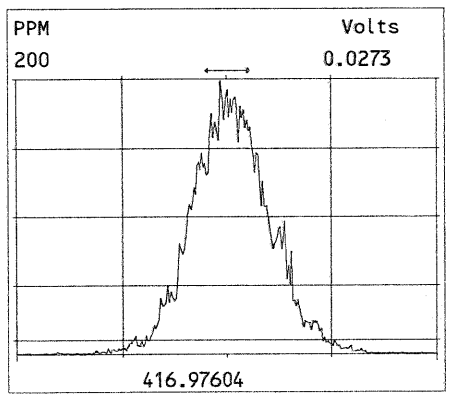


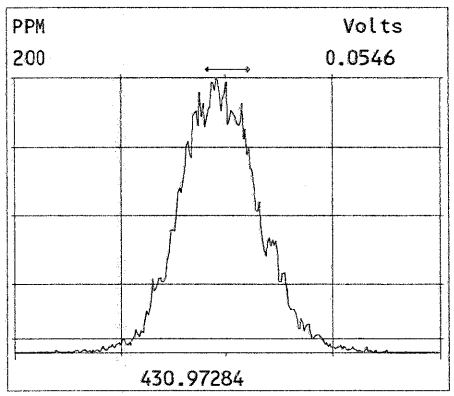


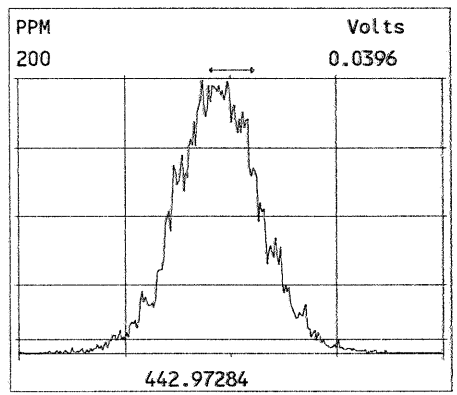




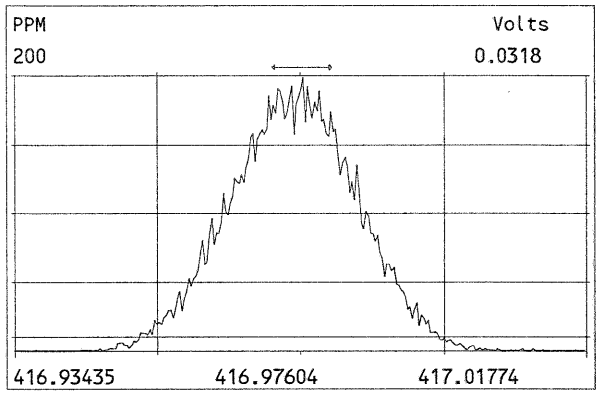


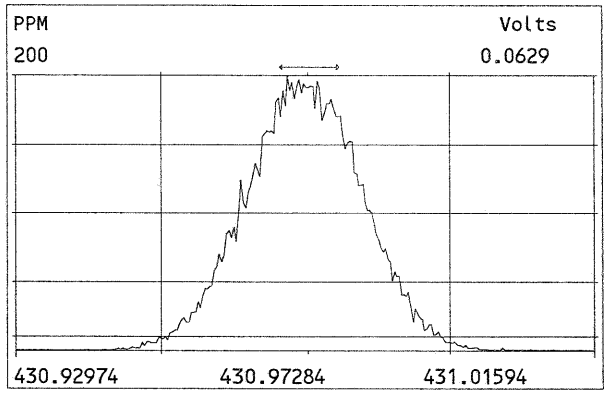


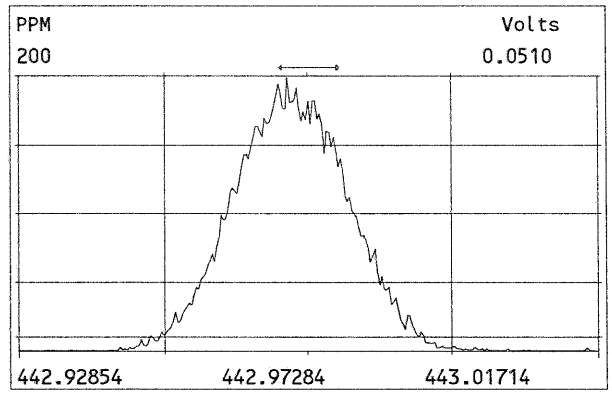


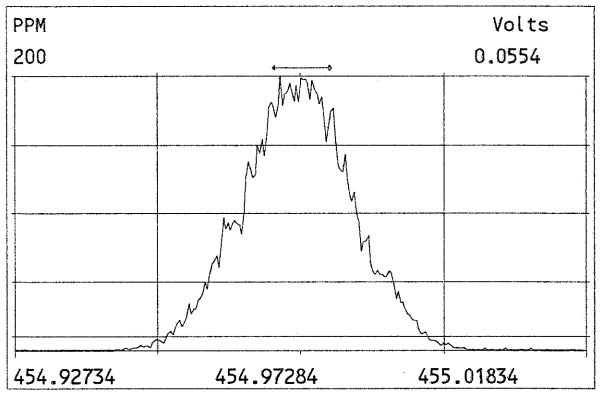


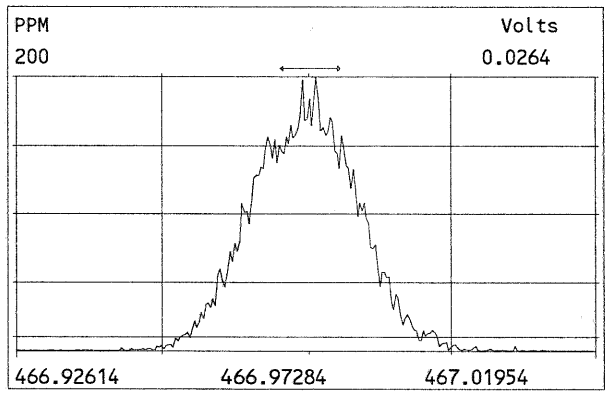
Peak Locate Examination:26-JUL-2019:03:26 File:25JUL19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

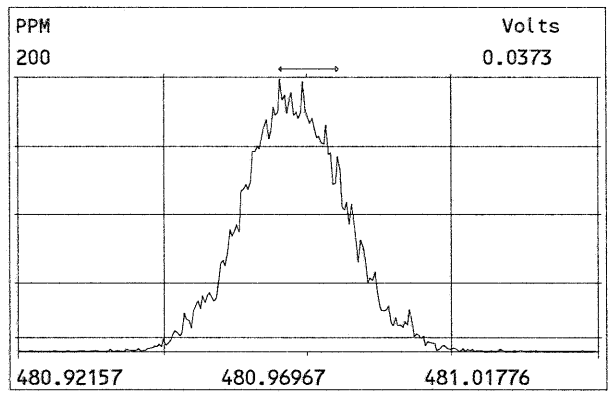


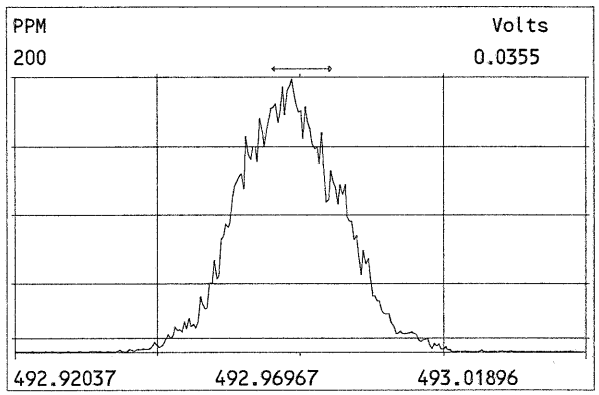


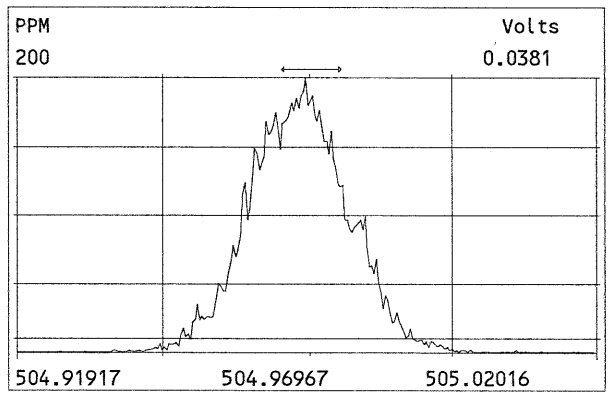


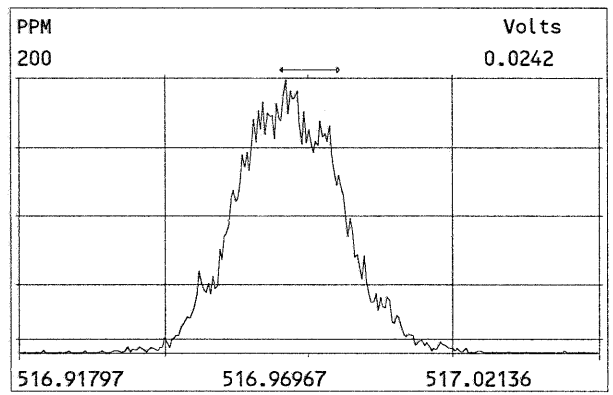












Cal: DAILY209FAL4-7-25-19

Run: 25JUL19Z Analyte: Results: Version: V3.6 21-MAY-2002 15:28:22

Data Filename:25JUL19Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.1660	-	1.17	
13C-PCB-1	0.9005	-	0.90	
PCB-2	1.2000	-	1.20	
PCB-3	1.1975	-	1.20	
13C-PCB-3	0.8715	-	0.87	
PCB-4	1.0983	-	1.10	
PCB-10	1.3967	-	1.40	
13C-PCB-4	0.6561	-	0.66	
PCB-9	1.3178	*	1.32	
PCB-7	1.4789	-	1.48	
PCB-6	1.3908	-	1.39	
PCB-8	1.3447	-	1.34	
PCB-5	1.3636	-	1.36	
PCB-14	1.2985	-	1.30	
PCB-11	1.2272	*	1.23	
PCB-13	1.1833	-	1.18	
PCB-12	1.2287	-	1.23	
PCB-15	1.1038	-	1.10	
13C-PCB-15	0.8970	-	0.90	
PCB-19	1.1902	-	1.19	
PCB-30	1.7994	-	1.80	
PCB-18	1.1746	-	1.17	
PCB-17	1.2905	-	1.29	
PCB-27	1.6523	-	1.65	
PCB-24	1.7621	*	1.76	
PCB-16	1.4319	-	1.43	
PCB-32	1.4634	*	1.46	
13C-PCB-19	0.4886	-	0.49	
13C-PCB-9	-	-	-	
PCB-34	1.2003	-	1.20	
PCB-23	1.4735	-	1.47	
PCB-29	1.3438	-	1.34	
PCB-26	1.2724	-	1.27	
PCB-25	1.2605	-	1.26	
PCB-31	1.2784	-	1.28	
PCB-28	1.5068	-	1.51	
PCB-20	1.2624	-	1.26	Co-elute PCB 21/33
PCB-21	1.2624	-	1.26	Co-elute PCB 20/33
PCB-33	1.2624	-	1.26	Co-elute PCB 20/21
PCB-22	1.4035	-	1.40	
PCB-36	1.2467	-	1.25	
PCB-39	1.2437	-	1.24	
PCB-38	1.2944	-	1.29	
PCB-35	1.1337	-	1.13	
PCB-37	1.1912	-	1.19	
13C-PCB-37	1.3999	-	1.40	

PCB-54	1.2191	-	1.22	
PCB-50	0.8866	-	0.89	
PCB-53	0.8640	-	0.86	
PCB-51	0.9214	-	0.92	
PCB-45	0.7406	-	0.74	
PCB-46	0.7042	-	0.70	
PCB-52	0.9039	-	0.90	Co-elute PCB 69
PCB-69	0.9039	-	0.90	Co-elute PCB 52
PCB-73	1.1151	-	1.12	
PCB-43	0.7787	-	0.78	Co-elute PCB 49
PCB-49	0.7787	-	0.78	Co-elute PCB 43
PCB-47	0.8485	-	0.85	
PCB-48	1.0098	-	1.01	Co-elute PCB 75
PCB-75	1.0098	-	1.01	Co-elute PCB 48
PCB-65	1.0135	-	1.01	
PCB-62	1.0684	-	1.07	
PCB-44	0.6651	-	0.67	
PCB-42	0.8911	-	0.89	Co-elute PCB 59
PCB-59	0.8911	-	0.89	Co-elute PCB 42
PCB-72	1.0025	-	1.00	Co-elute PCB 41/71/64
PCB-41	1.0025	-	1.00	Co-elute PCB 72/71/64
PCB-71	1.0025	-	1.00	Co-elute PCB 72/41/64
PCB-64	1.0025	-	1.00	Co-elute PCB 72/41/71
PCB-68	1.1409	-	1.14	
PCB-40	0.6105	-	0.61	
PCB-57	1.0724	-	1.07	
PCB-67	0.9948	-	0.99	
PCB-58	1.1134	-	1.11	
PCB-63	1.0499	-	1.05	
PCB-74	1.0224	-	1.02	
PCB-61	0.9676	-	0.97	Co-elute PCB 70
PCB-70	0.9676	-	0.97	Co-elute PCB 61
PCB-76	1.0514	-	1.05	Co-elute PCB 66
PCB-66	1.0514	-	1.05	Co-elute PCB 76
PCB-80	1.2369	-	1.24	
PCB-55	1.0613	-	1.06	
13C-PCB-54	1.3589	-	1.36	
PCB-104	1.1046	-	1.10	
PCB-96	1.0379	-	1.04	
PCB-103	0.8426	-	0.84	
PCB-100	0.8498	-	0.85	
PCB-94	0.6851	-	0.69	
PCB-98	0.6935	-	0.69	Co-elute PCB 102
PCB-102	0.6935	-	0.69	Co-elute PCB 98
PCB-95	0.7706	*	0.77	
PCB-93	0.7825	-	0.78	
PCB-88	0.8329	-	0.83	Co-elute PCB 91
PCB-91	0.8329	-	0.83	Co-elute PCB 88
PCB-121	0.8944	-	0.89	
13C-PCB-104	1.0639	-	1.06	
13C-PCB-28	1.7214	-	1.72	
13C-PCB-52	-	-	-	

PCB-56	1.1745	-	1.17	Co-elute PCB 60
PCB-60	1.1745	-	1.17	Co-elute PCB 56
PCB-79	1.2176	-	1.22	
PCB-78	1.1624	-	1.16	
PCB-81	1.2471	-	1.25	
13C-PCB-81	1.3671	-	1.37	
PCB-77	1.0600	-	1.06	
13C-PCB-77	1.4367	-	1.44	
PCB-155	1.0378	-	1.04	
PCB-150	0.9484	-	0.95	
PCB-152	0.9013	-	0.90	
PCB-145	0.9273	-	0.93	
PCB-136	0.9334	-	0.93	
PCB-148	0.6234	-	0.62	
PCB-154	0.7506	-	0.75	
13C-PCB-155	1.4374	-	1.44	
13C-PCB-111	1.2206	-	1.22	
13C-PCB-101	-	-	-	
PCB-84	0.8301	-	0.83	Co-elute PCB 92
PCB-92	0.8301	-	0.83	Co-elute PCB 84
PCB-89	0.8103	-	0.81	
PCB-90	0.8858	-	0.89	Co-elute PCB 101
PCB-101	0.8858	-	0.89	Co-elute PCB 90
PCB-113	1.0211	-	1.02	
PCB-99	0.9766	-	0.98	
PCB-119	1.1329	-	1.13	
PCB-83	0.8983	*	0.90	Co-elute PCB 112
PCB-112	0.8983	*	0.90	Co-elute PCB 83
PCB-109	1.0829	-	1.08	
PCB-97	0.7253	*	0.73	
PCB-86	0.7921	*	0.79	
PCB-125	0.9707	-	0.97	Co-elute PCB 87/117
PCB-87	0.9707	-	0.97	Co-elute PCB 125/117
PCB-117	0.9707	-	0.97	Co-elute PCB 125/87
PCB-111	1.1340	-	1.13	Co-elute PCB 115
PCB-115	1.1340	-	1.13	Co-elute PCB 111
PCB-85	0.9738	-	0.97	Co-elute PCB 116
PCB-116	0.9738	-	0.97	Co-elute PCB 85
PCB-120	1.1754	-	1.18	
PCB-110	1.1027	-	1.10	
PCB-82	0.6211	-	0.62	
PCB-124	1.1029	*	1.10	
PCB-108	1.1956	-	1.20	Co-elute PCB 107
PCB-107	1.1956	-	1.20	Co-elute PCB 108
PCB-123	1.0103	-	1.01	
13C-PCB-123	1.3138	-	1.31	
PCB-118	1.0862	-	1.09	Co-elute PCB 106
PCB-106	1.0862	-	1.09	Co-elute PCB 118
13C-PCB-118	1.4603	-	1.46	
PCB-114	1.1350	-	1.14	
13C-PCB-114	1.3367	-	1.34	
PCB-122	1.1593	-	1.16	
PCB-105	1.1924	-	1.19	
13C-PCB-105	1.3174	-	1.32	
PCB-127	1.0560	-	1.06	
PCB-126	1.1316	-	1.13	
13C-PCB-126	1.1973	-	1.20	

PCB-151	0.9783	-	0.98	
PCB-135	0.9233	-	0.92	
PCB-144	1.0540	-	1.05	
PCB-147	1.0885	-	1.09	
PCB-139	1.0751	-	1.08	Co-elute PCB 149
PCB-149	1.0751	-	1.08	Co-elute PCB 139
PCB-140	1.0679	-	1.07	
PCB-143	0.8557	-	0.86	Co-elute PCB 134
PCB-134	0.8557	-	0.86	Co-elute PCB 143
PCB-131	0.8502	-	0.85	Co-elute PCB 133
PCB-133	0.8502	-	0.85	Co-elute PCB 131
PCB-142	0.8645	-	0.86	
PCB-165	1.1685	-	1.17	Co-elute PCB 146
PCB-146	1.1685	-	1.17	Co-elute PCB 165
PCB-161	1.0699	-	1.07	Co-elute PCB 132
PCB-132	1.0699	-	1.07	Co-elute PCB 161
PCB-153	1.1614	-	1.16	
PCB-168	1.2740	-	1.27	
PCB-141	0.9273	-	0.93	
PCB-137	0.8707	-	0.87	
PCB-130	0.8501	-	0.85	
PCB-138	1.1266	-	1.13	Co-elute PCB 163/164
PCB-163	1.1266	-	1.13	Co-elute PCB 138/164
PCB-164	1.1266	-	1.13	Co-elute PCB 138/163
PCB-158	1.2699	-	1.27	Co-elute PCB 160
PCB-160	1.2699	-	1.27	Co-elute PCB 158
PCB-129	0.7865	-	0.79	
PCB-166	1.1984	-	1.20	
PCB-159	1.3072	-	1.31	
PCB-128	1.0289	-	1.03	Co-elute PCB 162
PCB-162	1.0289	-	1.03	Co-elute PCB 128
PCB-167	1.1270	-	1.13	
13C-PCB-167	1.1510	-	1.15	
PCB-156	1.2267	-	1.23	
13C-PCB-156	1.1134	-	1.11	
PCB-157	1.1550	-	1.15	
13C-PCB-157	1.1420	-	1.14	
PCB-169	1.1080	-	1.11	
13C-PCB-169	1.0798	-	1.08	
PCB-188	1.0575	-	1.06	
13C-PCB-188	1.2633	-	1.26	

PCB-184	1.2398	-	1.24	
PCB-179	1.1289	-	1.13	
PCB-176	1.0817	-	1.08	
PCB-186	1.1273	-	1.13	
PCB-178	0.7587	-	0.76	
PCB-175	0.7689	-	0.77	
PCB-187	0.8566	-	0.86	Co-elute PCB 182
PCB-182	0.8566	-	0.86	Co-elute PCB 187
PCB-183	0.8262	-	0.83	
PCB-185	0.7431	-	0.74	
PCB-174	0.7923	-	0.79	
PCB-181	0.7044	-	0.70	
PCB-177	0.6827	-	0.68	
PCB-171	0.7400	-	0.74	
PCB-173	0.6578	-	0.66	
PCB-172	0.6916	-	0.69	
PCB-192	0.9394	-	0.94	
PCB-180	0.6915	-	0.69	
PCB-193	0.9840	-	0.98	
PCB-191	0.9429	-	0.94	
PCB-170	0.6592	-	0.66	
PCB-190	0.9320	-	0.93	
PCB-189	1.0204	-	1.02	
13C-PCB-189	1.0042	-	1.00	
PCB-202	1.0384	-	1.04	
PCB-201	1.1171	-	1.12	
PCB-204	1.0875	-	1.09	
PCB-197	1.1520	-	1.15	
PCB-200	1.1011	-	1.10	
PCB-198	0.7314	-	0.73	
PCB-199	0.7615	-	0.76	
PCB-203	0.8479	-	0.85	Co-elute PCB 196
PCB-196	0.8479	-	0.85	Co-elute PCB 203
13C-PCB-202	0.9684	-	0.97	
13C-PCB-178	0.8291	-	0.83	
13C-PCB-138	-	-	-	
PCB-195	0.7686	-	0.77	
PCB-194	0.8372	-	0.84	
PCB-205	1.0446	-	1.04	
13C-PCB-205	1.3076	-	1.31	
PCB-208	1.0036	-	1.00	
13C-PCB-208	1.3245	-	1.32	
PCB-207	1.1479	-	1.15	
PCB-206	1.0404	-	1.04	
13C-PCB-206	0.9735	-	0.97	
PCB-209	1.1124	-	1.11	
13C-PCB-209	1.2342	-	1.23	
13C-PCB-194	-	-	-	

Analyst: [illegible] Date: 7/30/19

Run #1 Filename 25JUL19Z S: 2 Acquired: 25-JUL-19 12:08:50 Cal: DAILY209FAL4-7-25-19
Client ID: SS072519Z1 Analyte: FAL ID: Daily 209 190408A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	8.59e+07	3.19 y	14:34	-	1.17	
2	IS/RT	13C-PCB-1	100.00	1.47e+08	3.22 y	14:33	-	0.901	
3	Unk	PCB-2	50.00	8.70e+07	3.19 y	16:47	-	1.20	
4	Unk	PCB-3	50.00	8.54e+07	3.16 y	17:00	-	1.20	
5	IS/RT	13C-PCB-3	100.00	1.43e+08	3.27 y	16:59	-	0.872	
6	Unk	PCB-4	50.00	5.90e+07	1.51 y	18:15	-	1.10	
7	Unk	PCB-10	50.00	8.88e+07	1.54 y	18:18	-	1.40	
8	IS/RT	13C-PCB-4	100.00	1.07e+08	1.58 y	18:13	-	0.656	
9	Unk	PCB-9	50.00	8.38e+07	1.57 y	19:56	-	1.32	
10	Unk	PCB-7	50.00	9.40e+07	1.47 y	19:57	-	1.48	
11	Unk	PCB-6	50.00	8.84e+07	1.58 y	20:33	-	1.39	
12	Unk	PCB-8	50.00	8.55e+07	1.57 y	20:56	-	1.34	
13	Unk	PCB-5	50.00	8.67e+07	1.48 y	20:57	-	1.36	
14	Unk	PCB-14	50.00	8.25e+07	1.52 y	21:58	-	1.30	
15	Unk	PCB-11	50.00	7.80e+07	1.53 y	23:06	-	1.23	
16	Unk	PCB-13	50.00	7.52e+07	1.47 y	23:26	-	1.18	
17	Unk	PCB-12	50.00	7.81e+07	1.57 y	23:30	-	1.23	
18	Unk	PCB-15	50.00	8.10e+07	1.53 y	23:46	-	1.10	
19	IS/RT	13C-PCB-15	100.00	1.47e+08	1.58 y	23:45	-	0.897	
20	Unk	PCB-19	50.00	4.76e+07	1.05 y	22:07	-	1.19	
21	Unk	PCB-30	50.00	7.20e+07	1.06 y	22:58	-	1.80	
22	Unk	PCB-18	50.00	4.70e+07	1.07 y	23:40	-	1.17	
23	Unk	PCB-17	50.00	5.16e+07	1.07 y	23:50	-	1.29	
24	Unk	PCB-27	50.00	6.61e+07	1.06 y	24:22	-	1.65	
25	Unk	PCB-24	50.00	7.05e+07	1.06 y	24:23	-	1.76	
26	Unk	PCB-16	50.00	5.73e+07	1.06 y	24:51	-	1.43	
27	Unk	PCB-32	50.00	5.85e+07	1.11 y	24:52	-	1.46	
28	IS/RT	13C-PCB-19	100.00	8.00e+07	1.08 y	22:06	-	0.489	
29	RS	13C-PCB-9	100.00	1.64e+08	1.58 y	19:54	1.64e+06	-	
30	Unk	PCB-34	50.00	6.30e+07	1.03 y	25:36	-	1.20	
31	Unk	PCB-23	50.00	7.74e+07	1.06 y	25:43	-	1.47	
32	Unk	PCB-29	50.00	7.05e+07	1.06 y	25:57	-	1.34	
33	Unk	PCB-26	50.00	6.68e+07	1.05 y	26:08	-	1.27	
34	Unk	PCB-25	50.00	6.62e+07	1.06 y	26:18	-	1.26	
35	Unk	PCB-31	50.00	6.71e+07	1.06 y	26:37	-	1.28	
36	Unk	PCB-28	50.00	7.91e+07	1.07 y	26:43	-	1.51	
37	Unk	PCB-20	150.00	1.99e+08	1.05 y	27:18	-	1.26	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	1.99e+08	1.05 y	27:18	-	1.26	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	1.99e+08	1.05 y	27:18	-	1.26	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	7.37e+07	1.05 y	27:44	-	1.40	
41	Unk	PCB-36	50.00	6.54e+07	1.06 y	28:18	-	1.25	
42	Unk	PCB-39	50.00	6.53e+07	1.06 y	28:46	-	1.24	
43	Unk	PCB-38	50.00	6.80e+07	1.06 y	29:29	-	1.29	
44	Unk	PCB-35	50.00	5.95e+07	1.08 y	29:59	-	1.13	
45	Unk	PCB-37	50.00	6.25e+07	1.05 y	30:25	-	1.19	
46	IS	13C-PCB-37	100.00	1.05e+08	1.08 y	30:23	-	1.40	

47	Unk	PCB-54	100.00	1.24e+08	0.80 y	25:39		-	1.22	
48	Unk	PCB-50	100.00	9.04e+07	0.79 y	26:46		-	0.887	
49	Unk	PCB-53	100.00	8.81e+07	0.78 y	27:21		-	0.864	
50	Unk	PCB-51	100.00	9.39e+07	0.79 y	27:42		-	0.921	
51	Unk	PCB-45	100.00	7.55e+07	0.79 y	28:06		-	0.741	
52	Unk	PCB-46	100.00	7.18e+07	0.78 y	28:33		-	0.704	
53	Unk	PCB-52	200.00	1.84e+08	0.78 y	29:00		-	0.904	Co-elute PCB 69
54	Unk	PCB-69	200.00	1.84e+08	0.78 y	29:00		-	0.904	Co-elute PCB 52
55	Unk	PCB-73	100.00	1.14e+08	0.80 y	29:06		-	1.12	
56	Unk	PCB-43	200.00	1.59e+08	0.78 y	29:16		-	0.779	Co-elute PCB 49
57	Unk	PCB-49	200.00	1.59e+08	0.78 y	29:16		-	0.779	Co-elute PCB 43
58	Unk	PCB-47	100.00	8.65e+07	0.81 y	29:28		-	0.848	
59	Unk	PCB-48	200.00	2.06e+08	0.77 y	29:34		-	1.01	Co-elute PCB 75
60	Unk	PCB-75	200.00	2.06e+08	0.77 y	29:34		-	1.01	Co-elute PCB 48
61	Unk	PCB-65	100.00	1.03e+08	0.77 y	29:51		-	1.01	
62	Unk	PCB-62	100.00	1.09e+08	0.79 y	29:57		-	1.07	
63	Unk	PCB-44	100.00	6.78e+07	0.79 y	30:13		-	0.665	
64	Unk	PCB-42	200.00	1.82e+08	0.78 y	30:26		-	0.891	Co-elute PCB 59
65	Unk	PCB-59	200.00	1.82e+08	0.78 y	30:26		-	0.891	Co-elute PCB 42
66	Unk	PCB-72	400.00	4.09e+08	0.79 y	30:59		-	1.00	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	4.09e+08	0.79 y	30:59		-	1.00	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	4.09e+08	0.79 y	30:59		-	1.00	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	4.09e+08	0.79 y	30:59		-	1.00	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	1.16e+08	0.79 y	31:14		-	1.14	
71	Unk	PCB-40	100.00	6.22e+07	0.78 y	31:27		-	0.610	
72	Unk	PCB-57	100.00	1.09e+08	0.77 y	31:47		-	1.07	
73	Unk	PCB-67	100.00	1.01e+08	0.77 y	32:05		-	0.995	
74	Unk	PCB-58	100.00	1.13e+08	0.79 y	32:11		-	1.11	
75	Unk	PCB-63	100.00	1.07e+08	0.78 y	32:20		-	1.05	
76	Unk	PCB-74	100.00	1.04e+08	0.78 y	32:36		-	1.02	
77	Unk	PCB-61	200.00	1.97e+08	0.78 y	32:48		-	0.968	Co-elute PCB 70
78	Unk	PCB-70	200.00	1.97e+08	0.78 y	32:48		-	0.968	Co-elute PCB 61
79	Unk	PCB-76	200.00	2.14e+08	0.78 y	33:00		-	1.05	Co-elute PCB 66
80	Unk	PCB-66	200.00	2.14e+08	0.78 y	33:00		-	1.05	Co-elute PCB 76
81	Unk	PCB-80	100.00	1.26e+08	0.78 y	33:12		-	1.24	
82	Unk	PCB-55	100.00	1.08e+08	0.79 y	33:31		-	1.06	
83	IS/RT	13C-PCB-54	100.00	1.02e+08	0.82 y	25:38		-	1.36	
84	Unk	PCB-104	100.00	8.81e+07	1.57 y	30:04		-	1.10	
85	Unk	PCB-96	100.00	8.28e+07	1.57 y	31:17		-	1.04	
86	Unk	PCB-103	100.00	6.72e+07	1.55 y	31:47		-	0.843	
87	Unk	PCB-100	100.00	6.78e+07	1.58 y	32:07		-	0.850	
88	Unk	PCB-94	100.00	5.47e+07	1.58 y	32:34		-	0.685	
89	Unk	PCB-98	200.00	1.11e+08	1.55 y	33:00		-	0.693	Co-elute PCB 102
90	Unk	PCB-102	200.00	1.11e+08	1.55 y	33:00		-	0.693	Co-elute PCB 98
91	Unk	PCB-95	100.00	6.15e+07	1.51 y	33:03		-	0.771	
92	Unk	PCB-93	100.00	6.24e+07	1.63 y	33:09		-	0.782	
93	Unk	PCB-88	200.00	1.33e+08	1.52 y	33:27		-	0.833	Co-elute PCB 91
94	Unk	PCB-91	200.00	1.33e+08	1.52 y	33:27		-	0.833	Co-elute PCB 88
95	Unk	PCB-121	100.00	7.14e+07	1.63 y	33:32		-	0.894	
96	IS	13C-PCB-104	100.00	7.98e+07	1.58 y	30:03		-	1.06	
97	C/Up	13C-PCB-28	100.00	1.29e+08	1.06 y	26:42		-	1.72	
98	RS	13C-PCB-52	100.00	7.50e+07	0.80 y	28:57	7.50e+05	-		
99	Unk	PCB-56	200.00	2.01e+08	0.78 y	33:59		-	1.17	Co-elute PCB 60
100	Unk	PCB-60	200.00	2.01e+08	0.78 y	33:59		-	1.17	Co-elute PCB 56

101	Unk	PCB-79	100.00	1.04e+08	0.80 y	35:00	-	1.22	
102	Unk	PCB-78	100.00	9.94e+07	0.79 y	35:39	-	1.16	
103	Unk	PCB-81	100.00	1.04e+08	0.80 y	36:10	-	1.25	
104	IS	13C-PCB-81	100.00	8.34e+07	0.80 y	36:08	-	1.37	
105	Unk	PCB-77	100.00	9.29e+07	0.79 y	36:44	-	1.06	
106	IS/RT	13C-PCB-77	100.00	8.76e+07	0.78 y	36:41	-	1.44	
107	Unk	PCB-155	100.00	9.10e+07	1.25 y	34:13	-	1.04	
108	Unk	PCB-150	100.00	8.32e+07	1.28 y	35:25	-	0.948	
109	Unk	PCB-152	100.00	7.90e+07	1.25 y	35:53	-	0.901	
110	Unk	PCB-145	100.00	8.13e+07	1.26 y	36:18	-	0.927	
111	Unk	PCB-136	100.00	8.18e+07	1.24 y	36:36	-	0.933	
112	Unk	PCB-148	100.00	5.47e+07	1.27 y	36:41	-	0.623	
113	Unk	PCB-154	100.00	6.58e+07	1.26 y	37:10	-	0.751	
114	IS	13C-PCB-155	100.00	8.77e+07	1.31 y	34:12	-	1.44	
115	C/Up	13C-PCB-111	100.00	7.45e+07	1.60 y	36:17	-	1.22	
116	RS	13C-PCB-101	100.00	6.10e+07	1.58 y	34:39	6.10e+05	-	
117	Unk	PCB-84	200.00	1.27e+08	1.60 y	34:20	-	0.830	Co-elute PCB 92
118	Unk	PCB-92	200.00	1.27e+08	1.60 y	34:20	-	0.830	Co-elute PCB 84
119	Unk	PCB-89	100.00	6.20e+07	1.59 y	34:30	-	0.810	
120	Unk	PCB-90	200.00	1.36e+08	1.58 y	34:40	-	0.886	Co-elute PCB 101
121	Unk	PCB-101	200.00	1.36e+08	1.58 y	34:40	-	0.886	Co-elute PCB 90
122	Unk	PCB-113	100.00	7.81e+07	1.57 y	34:54	-	1.02	
123	Unk	PCB-99	100.00	7.47e+07	1.60 y	34:59	-	0.977	
124	Unk	PCB-119	100.00	8.67e+07	1.58 y	35:25	-	1.13	
125	Unk	PCB-83	200.00	1.37e+08	1.59 y	35:34	-	0.898	Co-elute PCB 112
126	Unk	PCB-112	200.00	1.37e+08	1.59 y	35:34	-	0.898	Co-elute PCB 83
127	Unk	PCB-109	100.00	8.29e+07	1.59 y	35:43	-	1.08	
128	Unk	PCB-97	100.00	5.55e+07	1.58 y	35:54	-	0.725	
129	Unk	PCB-86	100.00	6.06e+07	1.52 y	36:03	-	0.792	
130	Unk	PCB-125	300.00	2.23e+08	1.58 y	36:11	-	0.971	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	2.23e+08	1.58 y	36:11	-	0.971	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	2.23e+08	1.58 y	36:11	-	0.971	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	1.74e+08	1.58 y	36:18	-	1.13	Co-elute PCB 115
134	Unk	PCB-115	200.00	1.74e+08	1.58 y	36:18	-	1.13	Co-elute PCB 111
135	Unk	PCB-85	200.00	1.49e+08	1.58 y	36:27	-	0.974	Co-elute PCB 116
136	Unk	PCB-116	200.00	1.49e+08	1.58 y	36:27	-	0.974	Co-elute PCB 85
137	Unk	PCB-120	100.00	8.99e+07	1.58 y	36:40	-	1.18	
138	Unk	PCB-110	100.00	8.44e+07	1.58 y	36:47	-	1.10	
139	Unk	PCB-82	100.00	4.75e+07	1.60 y	37:24	-	0.621	
140	Unk	PCB-124	100.00	8.44e+07	1.55 y	38:02	-	1.10	
141	Unk	PCB-108	200.00	1.83e+08	1.55 y	38:10	-	1.20	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.83e+08	1.55 y	38:10	-	1.20	Co-elute PCB 108
143	Unk	PCB-123	100.00	7.48e+07	1.57 y	38:20	-	1.01	
144	IS	13C-PCB-123	100.00	7.41e+07	1.58 y	38:20	-	1.31	
145	Unk	PCB-118	200.00	1.79e+08	1.58 y	38:32	-	1.09	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.79e+08	1.58 y	38:32	-	1.09	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	8.23e+07	1.60 y	38:30	-	1.46	
148	Unk	PCB-114	100.00	8.56e+07	1.58 y	39:08	-	1.14	
149	IS	13C-PCB-114	100.00	7.54e+07	1.59 y	39:06	-	1.34	
150	Unk	PCB-122	100.00	8.87e+07	1.58 y	39:16	-	1.16	
151	Unk	PCB-105	100.00	8.86e+07	1.56 y	39:57	-	1.19	
152	IS	13C-PCB-105	100.00	7.43e+07	1.58 y	39:56	-	1.32	
153	Unk	PCB-127	100.00	8.08e+07	1.59 y	40:15	-	1.06	
154	Unk	PCB-126	100.00	7.64e+07	1.59 y	42:04	-	1.13	
155	IS	13C-PCB-126	100.00	6.75e+07	1.60 y	42:02	-	1.20	

156	Unk	PCB-151	100.00	6.19e+07	1.26 y	37:47	-	0.978	
157	Unk	PCB-135	100.00	5.84e+07	1.25 y	37:59	-	0.923	
158	Unk	PCB-144	100.00	6.67e+07	1.26 y	38:05	-	1.05	
159	Unk	PCB-147	100.00	6.88e+07	1.27 y	38:14	-	1.09	
160	Unk	PCB-139	200.00	1.36e+08	1.27 y	38:28	-	1.08	Co-elute PCB 149
161	Unk	PCB-149	200.00	1.36e+08	1.27 y	38:28	-	1.08	Co-elute PCB 139
162	Unk	PCB-140	100.00	6.75e+07	1.24 y	38:38	-	1.07	
163	Unk	PCB-143	200.00	1.08e+08	1.26 y	39:03	-	0.856	Co-elute PCB 134
164	Unk	PCB-134	200.00	1.08e+08	1.26 y	39:03	-	0.856	Co-elute PCB 143
165	Unk	PCB-131	200.00	1.08e+08	1.26 y	39:19	-	0.850	Co-elute PCB 133
166	Unk	PCB-133	200.00	1.08e+08	1.26 y	39:19	-	0.850	Co-elute PCB 131
167	Unk	PCB-142	100.00	5.47e+07	1.26 y	39:29	-	0.865	
168	Unk	PCB-165	200.00	1.48e+08	1.24 y	39:41	-	1.17	Co-elute PCB 146
169	Unk	PCB-146	200.00	1.48e+08	1.24 y	39:41	-	1.17	Co-elute PCB 165
170	Unk	PCB-161	200.00	1.35e+08	1.26 y	39:54	-	1.07	Co-elute PCB 132
171	Unk	PCB-132	200.00	1.35e+08	1.26 y	39:54	-	1.07	Co-elute PCB 161
172	Unk	PCB-153	100.00	7.34e+07	1.26 y	40:04	-	1.16	
173	Unk	PCB-168	100.00	8.06e+07	1.26 y	40:17	-	1.27	
174	Unk	PCB-141	100.00	5.86e+07	1.23 y	40:47	-	0.927	
175	Unk	PCB-137	100.00	5.51e+07	1.26 y	41:08	-	0.871	
176	Unk	PCB-130	100.00	5.38e+07	1.27 y	41:15	-	0.850	
177	Unk	PCB-138	300.00	2.14e+08	1.27 y	41:36	-	1.13	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	2.14e+08	1.27 y	41:36	-	1.13	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	2.14e+08	1.27 y	41:36	-	1.13	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	1.61e+08	1.26 y	41:49	-	1.27	Co-elute PCB 160
181	Unk	PCB-160	200.00	1.61e+08	1.26 y	41:49	-	1.27	Co-elute PCB 158
182	Unk	PCB-129	100.00	4.97e+07	1.24 y	42:02	-	0.787	
183	Unk	PCB-166	100.00	7.58e+07	1.25 y	42:30	-	1.20	
184	Unk	PCB-159	100.00	8.27e+07	1.26 y	42:47	-	1.31	
185	Unk	PCB-128	200.00	1.30e+08	1.27 y	43:03	-	1.03	Co-elute PCB 162
186	Unk	PCB-162	200.00	1.30e+08	1.27 y	43:03	-	1.03	Co-elute PCB 128
187	Unk	PCB-167	100.00	7.32e+07	1.25 y	43:26	-	1.13	
188	IS	13C-PCB-167	100.00	6.49e+07	1.28 y	43:25	-	1.15	
189	Unk	PCB-156	100.00	7.70e+07	1.26 y	44:39	-	1.23	
190	IS	13C-PCB-156	100.00	6.28e+07	1.30 y	44:39	-	1.11	
191	Unk	PCB-157	100.00	7.44e+07	1.27 y	44:55	-	1.15	
192	IS	13C-PCB-157	100.00	6.44e+07	1.30 y	44:54	-	1.14	
193	Unk	PCB-169	100.00	6.75e+07	1.26 y	46:46	-	1.11	
194	IS	13C-PCB-169	100.00	6.09e+07	1.28 y	46:46	-	1.08	
195	Unk	PCB-188	100.00	7.53e+07	1.06 y	39:42	-	1.06	
196	IS	13C-PCB-188	100.00	7.12e+07	1.06 y	39:42	-	1.26	

197	Unk	PCB-184	100.00	7.93e+07	1.04	y	40:09	-	1.24	
198	Unk	PCB-179	100.00	7.22e+07	1.04	y	40:53	-	1.13	
199	Unk	PCB-176	100.00	6.92e+07	1.05	y	41:20	-	1.08	
200	Unk	PCB-186	100.00	7.21e+07	1.04	y	41:54	-	1.13	
201	Unk	PCB-178	100.00	4.85e+07	1.04	y	42:21	-	0.759	
202	Unk	PCB-175	100.00	4.92e+07	1.05	y	42:40	-	0.769	
203	Unk	PCB-187	200.00	1.10e+08	1.05	y	42:52	-	0.857	Co-elute PCB 182
204	Unk	PCB-182	200.00	1.10e+08	1.05	y	42:52	-	0.857	Co-elute PCB 187
205	Unk	PCB-183	100.00	5.28e+07	1.05	y	43:08	-	0.826	
206	Unk	PCB-185	100.00	4.75e+07	1.05	y	43:46	-	0.743	
207	Unk	PCB-174	100.00	5.07e+07	1.04	y	44:08	-	0.792	
208	Unk	PCB-181	100.00	4.50e+07	1.06	y	44:12	-	0.704	
209	Unk	PCB-177	100.00	4.36e+07	1.06	y	44:22	-	0.683	
210	Unk	PCB-171	100.00	4.73e+07	1.05	y	44:39	-	0.740	
211	Unk	PCB-173	100.00	4.21e+07	1.06	y	45:03	-	0.658	
212	Unk	PCB-172	100.00	4.42e+07	1.04	y	45:27	-	0.692	
213	Unk	PCB-192	100.00	6.01e+07	1.05	y	45:36	-	0.939	
214	Unk	PCB-180	100.00	4.42e+07	1.05	y	45:48	-	0.691	
215	Unk	PCB-193	100.00	6.29e+07	1.06	y	45:58	-	0.984	
216	Unk	PCB-191	100.00	6.03e+07	1.05	y	46:11	-	0.943	
217	Unk	PCB-170	100.00	4.21e+07	1.05	y	47:05	-	0.659	
218	Unk	PCB-190	100.00	5.96e+07	1.06	y	47:15	-	0.932	
219	Unk	PCB-189	100.00	5.78e+07	1.05	y	48:26	-	1.02	
220	IS	13C-PCB-189	100.00	5.66e+07	1.06	y	48:26	-	1.00	
221	Unk	PCB-202	150.00	8.51e+07	0.91	y	44:50	-	1.04	
222	Unk	PCB-201	150.00	9.15e+07	0.91	y	45:17	-	1.12	
223	Unk	PCB-204	150.00	8.91e+07	0.92	y	45:25	-	1.09	
224	Unk	PCB-197	150.00	9.44e+07	0.90	y	45:41	-	1.15	
225	Unk	PCB-200	150.00	9.02e+07	0.90	y	46:26	-	1.10	
226	Unk	PCB-198	150.00	5.99e+07	1.00	y	47:37	-	0.731	
227	Unk	PCB-199	150.00	6.24e+07	0.82	y	47:42	-	0.761	
228	Unk	PCB-203	300.00	1.39e+08	0.90	y	47:56	-	0.848	Co-elute PCB 196
229	Unk	PCB-196	300.00	1.39e+08	0.90	y	47:56	-	0.848	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	5.46e+07	0.92	y	44:49	-	0.968	
231	C/Up	13C-PCB-178	100.00	4.68e+07	1.08	y	42:21	-	0.829	
232	RS	13C-PCB-138	100.00	5.64e+07	1.30	y	41:33	5.64e+05	-	
233	Unk	PCB-195	150.00	7.50e+07	0.89	y	49:03	-	0.769	
234	Unk	PCB-194	150.00	8.17e+07	0.90	y	49:51	-	0.837	
235	Unk	PCB-205	150.00	1.02e+08	0.90	y	50:06	-	1.04	
236	IS	13C-PCB-205	100.00	6.50e+07	0.90	y	50:06	-	1.31	
237	Unk	PCB-208	150.00	9.92e+07	1.36	y	49:10	-	1.00	
238	IS	13C-PCB-208	100.00	6.59e+07	0.80	y	49:10	-	1.32	
239	Unk	PCB-207	150.00	9.84e+07	1.34	y	49:28	-	1.15	
240	Unk	PCB-206	150.00	7.56e+07	1.34	y	51:18	-	1.04	
241	IS	13C-PCB-206	100.00	4.84e+07	0.80	y	51:18	-	0.973	
242	Unk	PCB-209	150.00	1.02e+08	1.18	y	52:30	-	1.11	
243	IS	13C-PCB-209	100.00	6.14e+07	1.20	y	52:29	-	1.23	
244	RS	13C-PCB-194	100.00	4.97e+07	0.91	y	49:51	4.97e+05	-	

Analyst: _____ Date: 7/26/13

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/25/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 25JUL19Z Sam:1 Analysis Date: 25-JUL-19 11:10:30

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.24	2.66-3.60	y	50.2	37.5 - 62.5
PCB-3	M/M+2	3.14	2.66-3.60	y	49.8	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	47.2	37.5 - 62.5
PCB-15	M/M+2	1.53	1.33-1.79	y	46.2	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	49.9	37.5 - 62.5
PCB-37	M/M+2	1.07	0.88-1.20	y	44.2	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	48.6	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	50.9	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	44.6	37.5 - 62.5
PCB-104	M+2/M+4	1.58	1.32-1.78	y	49.5	37.5 - 62.5
PCB-105	M+2/M+4	1.59	1.32-1.78	y	43.0	37.5 - 62.5
PCB-114	M+2/M+4	1.58	1.32-1.78	y	45.6	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	48.4	37.5 - 62.5
PCB-123	M+2/M+4	1.54	1.32-1.78	y	52.7	37.5 - 62.5
PCB-126	M+2/M+4	1.55	1.32-1.78	y	45.1	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	49.2	37.5 - 62.5
PCB-156	M+2/M+4	1.28	1.05-1.43	y	45.4	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	46.8	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	48.6	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	48.6	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	48.1	37.5 - 62.5
PCB-189	M+2/M+4	1.04	0.89-1.21	y	50.6	37.5 - 62.5
PCB-202	M+2/M+4	0.91	0.76-1.02	y	47.9	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	50.9	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	49.4	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	50.4	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	50.4	37.5 - 62.5

Analyst: [signature] Date: 7/26/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/25/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 25JUL19Z Sam:1 Analysis Date: 25-JUL-19 11:10:30

	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	3.26	2.66-3.60	y	101	50.0 - 145
13C-PCB-3	M/M+2	3.20	2.66-3.60	y	104	50.0 - 145
13C-PCB-4	M/M+2	1.58	1.33-1.79	y	97.9	50.0 - 145
13C-PCB-15	M/M+2	1.61	1.33-1.79	y	104	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	97.0	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	101	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	96.2	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	90.7	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	95.4	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	96.9	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	106	50.0 - 145
13C-PCB-114	M+2/M+4	1.59	1.32-1.78	y	107	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	104	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	107	50.0 - 145
13C-PCB-126	M+2/M+4	1.57	1.32-1.78	y	106	50.0 - 145
13C-PCB-155	M+2/M+4	1.32	1.05-1.43	y	98.1	50.0 - 145
13C-PCB-156	M+2/M+4	1.30	1.05-1.43	y	108	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	106	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	109	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	110	50.0 - 145
13C-PCB-188	M+2/M+4	1.05	0.89-1.21	y	108	50.0 - 145
13C-PCB-189	M+2/M+4	1.05	0.89-1.21	y	111	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	119	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	103	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	99.2	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	107	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	101	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	99.4	65.0 - 135
13C-PCB-111	M+2/M+4	1.59	1.32-1.78	y	104	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	105	75.0 - 125

Analyst: [signature] Date: 7/26/19

FAL ID: ST072519Z1 Filename: 25JUL19Z Sam:1 Acquired: 25-JUL-19 11:10:30 ICal: DAILY209FAL4-7-25-19
Client ID: 1668 CS3 R181204D ConCal: ST072519Z1 EndCal: ST072519Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	8.34e+07	3.24 y	14:32	1.17	50.2		2.50	-	-	*	
13C-PCB-1	1.43e+08	3.26 y	14:31	0.90	101		2.50				101
PCB-3	8.46e+07	3.14 y	16:58	1.20	49.8		2.50	-	-	*	
13C-PCB-3	1.42e+08	3.20 y	16:57	0.87	104		2.50				104
PCB-4	5.22e+07	1.57 y	18:12	1.10	47.2		2.50	-	-	*	
13C-PCB-4	1.01e+08	1.58 y	18:11	0.66	97.9		2.50				97.9
PCB-15	7.44e+07	1.53 y	23:44	1.10	46.2		2.50	-	-	*	
13C-PCB-15	1.46e+08	1.61 y	23:42	0.90	104		2.50				104
PCB-19	4.42e+07	1.06 y	22:05	1.19	49.9		2.50	-	-	*	
13C-PCB-19	7.43e+07	1.09 y	22:04	0.49	97.0		2.50				97.0
13C-PCB-9	1.57e+08	1.57 y	19:51	-	95.7		2.50				
PCB-37	5.38e+07	1.07 y	30:22	1.19	44.2		2.50	-	-	*	
13C-PCB-37	1.02e+08	1.06 y	30:21	1.40	101		2.50				101
PCB-54	5.59e+07	0.80 y	25:38	1.22	48.6		2.50	-	-	*	
13C-PCB-54	9.43e+07	0.81 y	25:36	1.36	96.2		2.50				96.2
PCB-104	4.07e+07	1.58 y	30:03	1.10	49.5		2.50	-	-	*	
13C-PCB-104	7.45e+07	1.60 y	30:02	1.06	96.9		2.50				96.9
13C-PCB-28	1.24e+08	1.05 y	26:41	1.72	99.4		2.50				99.4
13C-PCB-52	7.22e+07	0.79 y	28:56	-	96.2		2.50				
PCB-81	4.00e+07	0.81 y	36:08	1.25	44.6		2.50	-	-	*	
13C-PCB-81	7.19e+07	0.80 y	36:07	1.37	95.4		2.50				95.4
PCB-77	3.87e+07	0.80 y	36:42	1.06	50.9		2.50	-	-	*	
13C-PCB-77	7.18e+07	0.81 y	36:41	1.44	90.7		2.50				90.7
PCB-155	3.97e+07	1.27 y	34:13	1.04	49.2		2.50	-	-	*	
13C-PCB-155	7.78e+07	1.32 y	34:12	1.44	98.1		2.50				98.1
13C-PCB-111	7.02e+07	1.59 y	36:17	1.22	104		2.50				104
13C-PCB-101	5.51e+07	1.60 y	34:38	-	90.4		2.50				
PCB-123	3.51e+07	1.54 y	38:20	1.01	52.7		2.50	-	-	*	
13C-PCB-123	6.60e+07	1.59 y	38:20	1.31	107		2.50				107
PCB-118	3.73e+07	1.56 y	38:32	1.09	48.4		2.50	-	-	*	
13C-PCB-118	7.09e+07	1.61 y	38:30	1.46	104		2.50				104
PCB-114	3.46e+07	1.58 y	39:08	1.14	45.6		2.50	-	-	*	
13C-PCB-114	6.69e+07	1.59 y	39:06	1.34	107		2.50				107
PCB-105	3.36e+07	1.59 y	39:57	1.19	43.0		2.50	-	-	*	
13C-PCB-105	6.55e+07	1.59 y	39:56	1.32	106		2.50				106
PCB-126	3.02e+07	1.55 y	42:04	1.13	45.1		2.50	-	-	*	
13C-PCB-126	5.92e+07	1.57 y	42:04	1.20	106		2.50				106
PCB-167	3.21e+07	1.26 y	43:26	1.13	48.6		2.50	-	-	*	
13C-PCB-167	5.85e+07	1.27 y	43:25	1.15	109		2.50				109
PCB-156	3.13e+07	1.28 y	44:40	1.23	45.4		2.50	-	-	*	
13C-PCB-156	5.62e+07	1.30 y	44:39	1.11	108		2.50				108
PCB-157	3.05e+07	1.27 y	44:55	1.15	46.8		2.50	-	-	*	
13C-PCB-157	5.64e+07	1.29 y	44:54	1.14	106		2.50				106
PCB-169	2.99e+07	1.27 y	46:47	1.11	48.6		2.50	-	-	*	
13C-PCB-169	5.55e+07	1.29 y	46:45	1.08	110		2.50				110
PCB-188	3.23e+07	1.05 y	39:44	1.06	48.1		2.50	-	-	*	
13C-PCB-188	6.35e+07	1.05 y	39:42	1.26	108		2.50				108
PCB-189	2.70e+07	1.04 y	48:28	1.02	50.6		2.50	-	-	*	
13C-PCB-189	5.23e+07	1.05 y	48:26	1.00	111		2.50				111
PCB-202	2.67e+07	0.91 y	44:50	1.04	47.9		2.50	-	-	*	
13C-PCB-202	5.37e+07	0.91 y	44:49	0.97	119		2.50				119
13C-PCB-178	4.06e+07	1.06 y	42:20	0.83	105		2.50				105
13C-PCB-138	4.67e+07	1.29 y	41:34	-	82.9		2.50				

FAL ID: ST072519Z1 Filename: 25JUL19Z Sam:1 Acquired: 25-JUL-19 11:10:30 ICal: DAILY209FAL4-7-25-19 2 of 2
Client ID: 1668 CS3 R181204D ConCal: ST072519Z1 EndCal: ST072519Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	3.19e+07	0.91	y	50:06	1.04	50.9	2.50	-	-	*	
13C-PCB-205	6.01e+07	0.90	y	50:06	1.31	103	2.50				103
PCB-208	3.19e+07	1.36	y	49:10	1.00	50.4	2.50	-	-	*	
13C-PCB-208	6.32e+07	0.80	y	49:10	1.32	107	2.50				107
PCB-206	2.22e+07	1.35	y	51:21	1.04	49.4	2.50	-	-	*	
13C-PCB-206	4.31e+07	0.80	y	51:19	0.97	99.2	2.50				99.2
PCB-209	3.12e+07	1.19	y	52:30	1.11	50.4	2.50	-	-	*	
13C-PCB-209	5.58e+07	1.21	y	52:29	1.23	101	2.50				101
13C-PCB-194	4.47e+07	0.92	y	49:51	-	89.8	2.50				

Analyst: _____ Date: 7/26/19

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/25/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 25JUL19Z Sam:16 Analysis Date: 26-JUL-19 01:47:50

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	51.1	37.5 - 62.5
PCB-3	M/M+2	3.18	2.66-3.60	y	51.1	37.5 - 62.5
PCB-4	M/M+2	1.51	1.33-1.79	y	48.2	37.5 - 62.5
PCB-15	M/M+2	1.55	1.33-1.79	y	45.4	37.5 - 62.5
PCB-19	M/M+2	1.07	0.88-1.20	y	55.1	37.5 - 62.5
PCB-37	M/M+2	1.09	0.88-1.20	y	43.6	37.5 - 62.5
PCB-54	M/M+2	0.76	0.65-0.89	y	46.2	37.5 - 62.5
PCB-77	M/M+2	0.82	0.65-0.89	y	49.1	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	43.8	37.5 - 62.5
PCB-104	M+2/M+4	1.58	1.32-1.78	y	49.7	37.5 - 62.5
PCB-105	M+2/M+4	1.60	1.32-1.78	y	41.0	37.5 - 62.5
PCB-114	M+2/M+4	1.58	1.32-1.78	y	45.5	37.5 - 62.5
PCB-118	M+2/M+4	1.61	1.32-1.78	y	47.5	37.5 - 62.5
PCB-123	M+2/M+4	1.60	1.32-1.78	y	48.8	37.5 - 62.5
PCB-126	M+2/M+4	1.59	1.32-1.78	y	43.7	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	52.6	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	43.9	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	45.9	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	47.3	37.5 - 62.5
PCB-169	M+2/M+4	1.26	1.05-1.43	y	48.3	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	52.3	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	50.9	37.5 - 62.5
PCB-202	M+2/M+4	0.92	0.76-1.02	y	51.0	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	50.6	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	49.7	37.5 - 62.5
PCB-208	M+4/M+6	1.33	1.13-1.53	y	49.7	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	50.5	37.5 - 62.5

Analyst: _____ Date: 7/26/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/25/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 25JUL19Z Sam:16 Analysis Date: 26-JUL-19 01:47:50

	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	109	50.0 - 145
13C-PCB-3	M/M+2	3.42	2.66-3.60	y	100	50.0 - 145
13C-PCB-4	M/M+2	1.59	1.33-1.79	y	110	50.0 - 145
13C-PCB-15	M/M+2	1.56	1.33-1.79	y	94.0	50.0 - 145
13C-PCB-19	M/M+2	1.12	0.88-1.20	y	92.5	50.0 - 145
13C-PCB-37	M/M+2	1.11	0.88-1.20	y	82.0	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	124	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	85.9	50.0 - 145
13C-PCB-81	M/M+2	0.78	0.65-0.89	y	82.2	50.0 - 145
13C-PCB-104	M+2/M+4	1.58	1.32-1.78	y	110	50.0 - 145
13C-PCB-105	M+2/M+4	1.56	1.32-1.78	y	97.7	50.0 - 145
13C-PCB-114	M+2/M+4	1.58	1.32-1.78	y	90.4	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	89.2	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	93.5	50.0 - 145
13C-PCB-126	M+2/M+4	1.58	1.32-1.78	y	95.0	50.0 - 145
13C-PCB-155	M+2/M+4	1.33	1.05-1.43	y	87.2	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	112	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	108	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	114	50.0 - 145
13C-PCB-169	M+2/M+4	1.28	1.05-1.43	y	113	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	94.0	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	118	50.0 - 145
13C-PCB-202	M+2/M+4	0.93	0.76-1.02	y	101	50.0 - 145
13C-PCB-205	M+2/M+4	0.88	0.76-1.02	y	110	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	114	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	118	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	109	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.08	0.88-1.20	y	79.1	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	102	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	95.0	75.0 - 125

Analyst: [signature] Date: 7/26/19

FAL ID: ST072519Z2 Filename: 25JUL19Z Sam:16 Acquired: 26-JUL-19 01:47:50 ICal: DAILY209FAL4-7-25-19
Client ID: 1668 CS3 R181204D ConCal: ST072519Z1 EndCal: ST072519Z2
Results: GC Column: DB1MS Amount: 1.000

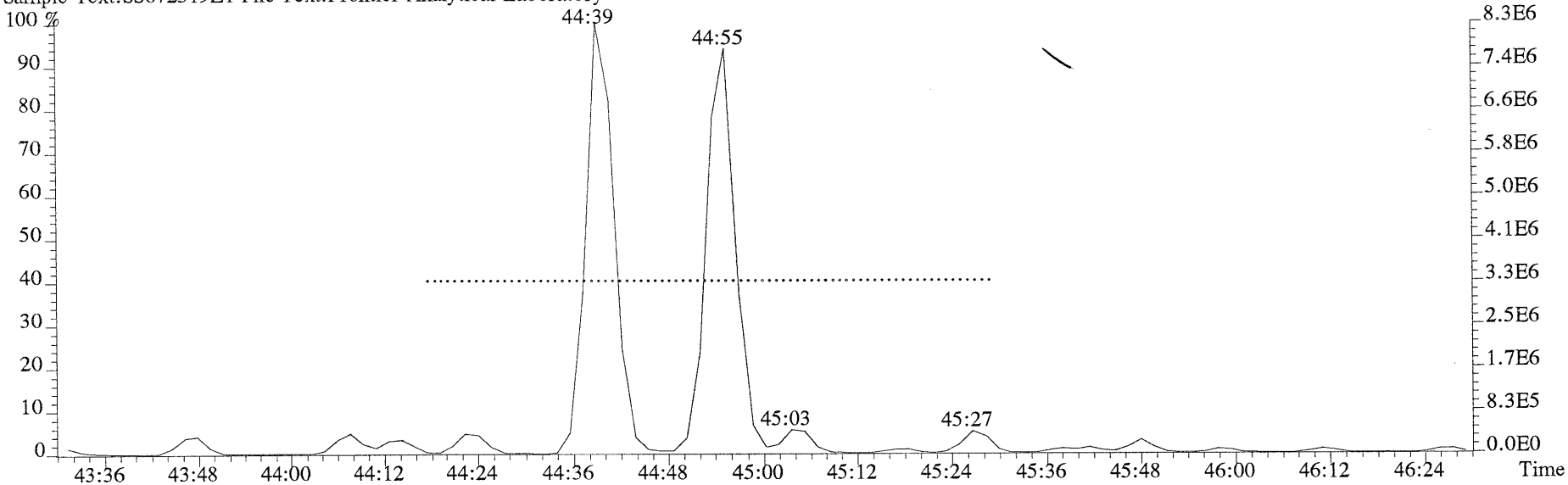
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	7.38e+07	3.11 y	14:34	1.17	51.1		2.50	-	-	*	
13C-PCB-1	1.24e+08	3.24 y	14:33	0.90	109		2.50				109
PCB-3	6.79e+07	3.18 y	17:00	1.20	51.1		2.50	-	-	*	
13C-PCB-3	1.11e+08	3.42 y	16:59	0.87	100		2.50				100
PCB-4	4.86e+07	1.51 y	18:14	1.10	48.2		2.50	-	-	*	
13C-PCB-4	9.17e+07	1.59 y	18:13	0.66	110		2.50				110
PCB-15	5.35e+07	1.55 y	23:46	1.10	45.4		2.50	-	-	*	
13C-PCB-15	1.07e+08	1.56 y	23:45	0.90	94.0		2.50				94.0
PCB-19	3.76e+07	1.07 y	22:07	1.19	55.1		2.50	-	-	*	
13C-PCB-19	5.73e+07	1.12 y	22:05	0.49	92.5		2.50				92.5
13C-PCB-9	1.27e+08	1.62 y	19:54	-	77.4		2.50				
PCB-37	3.22e+07	1.09 y	30:25	1.19	43.6		2.50	-	-	*	
13C-PCB-37	6.21e+07	1.11 y	30:22	1.40	82.0		2.50				82.0
PCB-54	5.12e+07	0.76 y	25:39	1.22	46.2		2.50	-	-	*	
13C-PCB-54	9.09e+07	0.80 y	25:38	1.36	124		2.50				124
PCB-104	3.46e+07	1.58 y	30:04	1.10	49.7		2.50	-	-	*	
13C-PCB-104	6.30e+07	1.58 y	30:03	1.06	110		2.50				110
13C-PCB-28	7.36e+07	1.08 y	26:42	1.72	79.1		2.50				79.1
13C-PCB-52	5.41e+07	0.78 y	28:57	-	72.1		2.50				
PCB-81	3.06e+07	0.81 y	36:10	1.25	43.8		2.50	-	-	*	
13C-PCB-81	5.61e+07	0.78 y	36:08	1.37	82.2		2.50				82.2
PCB-77	3.21e+07	0.82 y	36:42	1.06	49.1		2.50	-	-	*	
13C-PCB-77	6.16e+07	0.79 y	36:42	1.44	85.9		2.50				85.9
PCB-155	3.41e+07	1.28 y	34:13	1.04	52.6		2.50	-	-	*	
13C-PCB-155	6.26e+07	1.33 y	34:12	1.44	87.2		2.50				87.2
13C-PCB-111	6.23e+07	1.60 y	36:17	1.22	102		2.50				102
13C-PCB-101	4.99e+07	1.63 y	34:39	-	81.8		2.50				
PCB-123	2.87e+07	1.60 y	38:20	1.01	48.8		2.50	-	-	*	
13C-PCB-123	5.82e+07	1.59 y	38:19	1.31	93.5		2.50				93.5
PCB-118	3.19e+07	1.61 y	38:30	1.09	47.5		2.50	-	-	*	
13C-PCB-118	6.17e+07	1.61 y	38:30	1.46	89.2		2.50				89.2
PCB-114	2.96e+07	1.58 y	39:08	1.14	45.5		2.50	-	-	*	
13C-PCB-114	5.73e+07	1.58 y	39:06	1.34	90.4		2.50				90.4
PCB-105	2.98e+07	1.60 y	39:57	1.19	41.0		2.50	-	-	*	
13C-PCB-105	6.10e+07	1.56 y	39:56	1.32	97.7		2.50				97.7
PCB-126	2.67e+07	1.59 y	42:04	1.13	43.7		2.50	-	-	*	
13C-PCB-126	5.39e+07	1.58 y	42:04	1.20	95.0		2.50				95.0
PCB-167	3.30e+07	1.25 y	43:26	1.13	47.3		2.50	-	-	*	
13C-PCB-167	6.19e+07	1.27 y	43:25	1.15	114		2.50				114
PCB-156	3.18e+07	1.27 y	44:39	1.23	43.9		2.50	-	-	*	
13C-PCB-156	5.90e+07	1.28 y	44:39	1.11	112		2.50				112
PCB-157	3.10e+07	1.27 y	44:55	1.15	45.9		2.50	-	-	*	
13C-PCB-157	5.85e+07	1.30 y	44:54	1.14	108		2.50				108
PCB-169	3.11e+07	1.26 y	46:47	1.11	48.3		2.50	-	-	*	
13C-PCB-169	5.80e+07	1.28 y	46:46	1.08	113		2.50				113
PCB-188	3.11e+07	1.06 y	39:42	1.06	52.3		2.50	-	-	*	
13C-PCB-188	5.63e+07	1.07 y	39:41	1.26	94.0		2.50				94.0
PCB-189	2.93e+07	1.05 y	48:26	1.02	50.9		2.50	-	-	*	
13C-PCB-189	5.63e+07	1.06 y	48:26	1.00	118		2.50				118
PCB-202	2.46e+07	0.92 y	44:50	1.04	51.0		2.50	-	-	*	
13C-PCB-202	4.64e+07	0.93 y	44:49	0.97	101		2.50				101
13C-PCB-178	3.73e+07	1.06 y	42:19	0.83	95.0		2.50				95.0
13C-PCB-138	4.74e+07	1.28 y	41:33	-	84.0		2.50				

FAL ID: ST072519Z2 Filename: 25JUL19Z Sam:16 Acquired: 26-JUL-19 01:47:50 ICal: DAILY209FAL4-7-25-19 2 of 2
Client ID: 1668 CS3 R181204D ConCal: ST072519Z1 EndCal: ST072519Z2
Results: GC Column: DB1MS Amount: 1.000

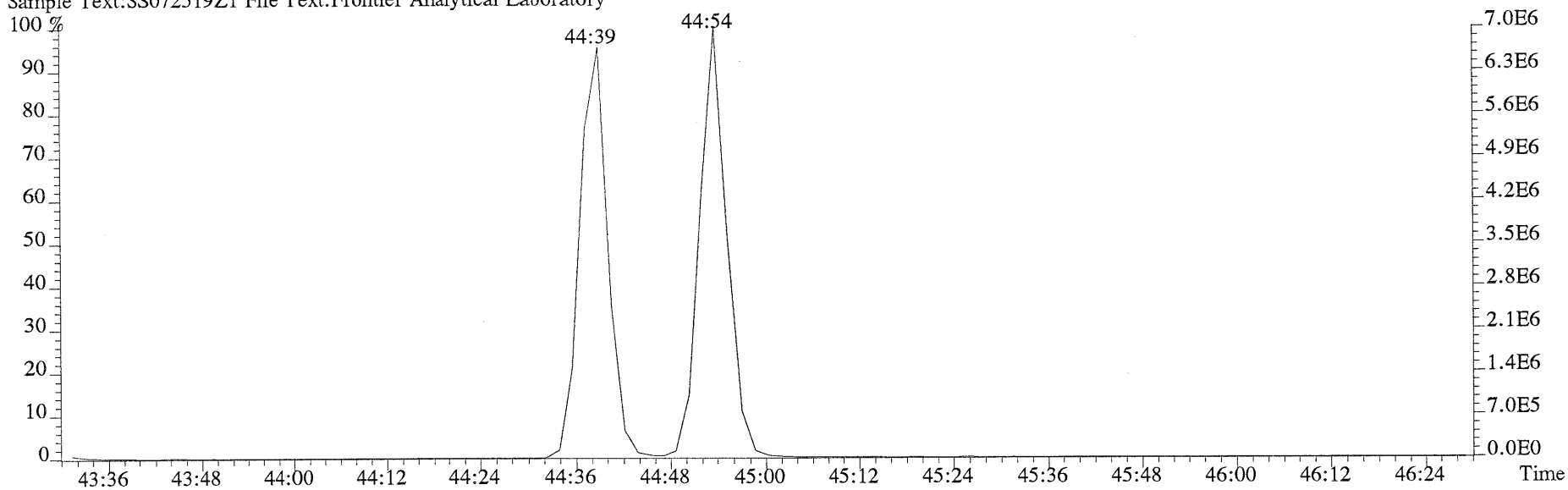
PCB-205	3.27e+07	0.90 y	50:06	1.04	50.6	2.50	-	-	*	
13C-PCB-205	6.18e+07	0.88 y	50:05	1.31	110	2.50				110
PCB-208	3.37e+07	1.33 y	49:10	1.00	49.7	2.50	-	-	*	
13C-PCB-208	6.75e+07	0.80 y	49:09	1.32	118	2.50				118
PCB-206	2.47e+07	1.37 y	51:18	1.04	49.7	2.50	-	-	*	
13C-PCB-206	4.77e+07	0.81 y	51:17	0.97	114	2.50				114
PCB-209	3.27e+07	1.19 y	52:30	1.11	50.5	2.50	-	-	*	
13C-PCB-209	5.83e+07	1.21 y	52:30	1.23	109	2.50				109
13C-PCB-194	4.31e+07	0.91 y	49:50	-	86.7	2.50				

Analyst: [illegible] Date: 7/26/19

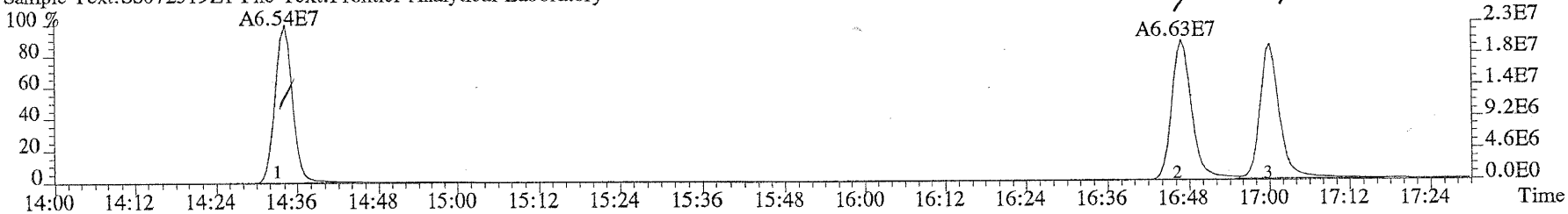
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



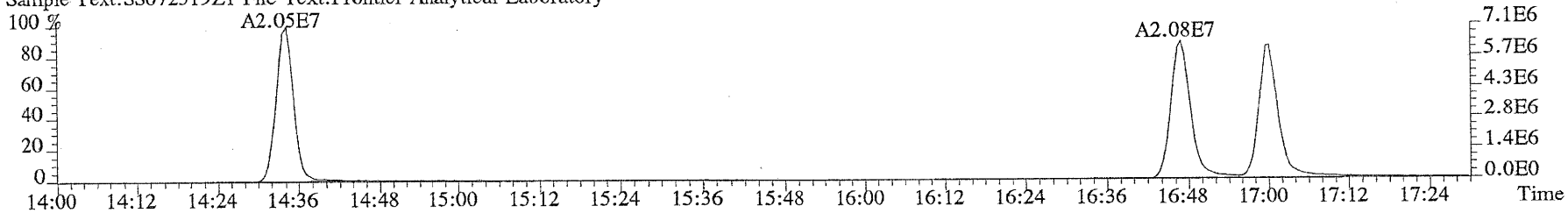
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



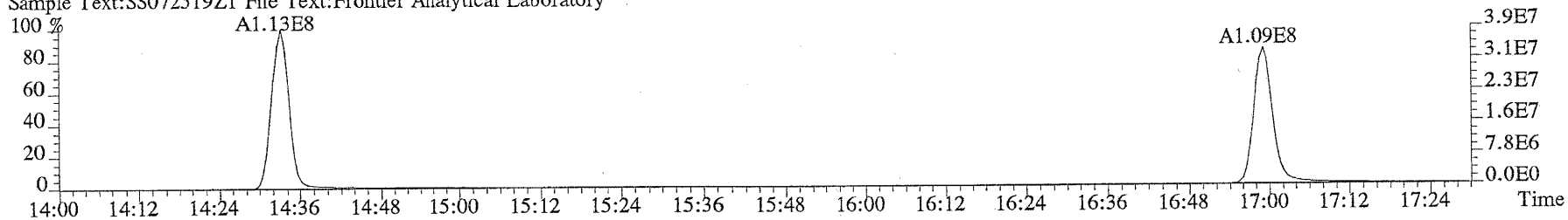
File:25JUL19Z #1-784 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



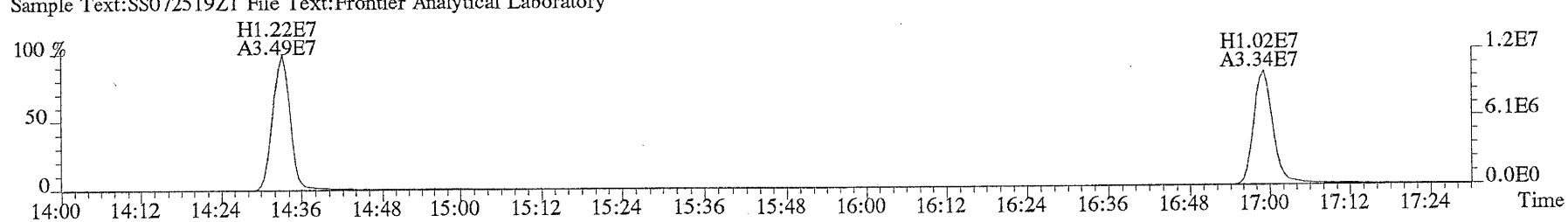
File:25JUL19Z #1-784 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



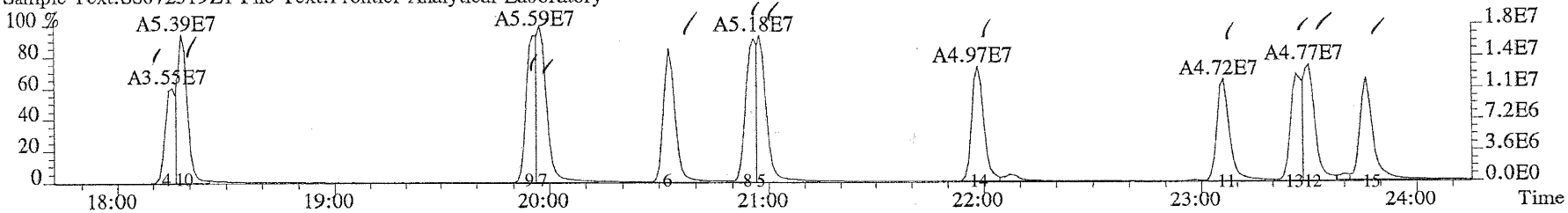
File:25JUL19Z #1-784 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



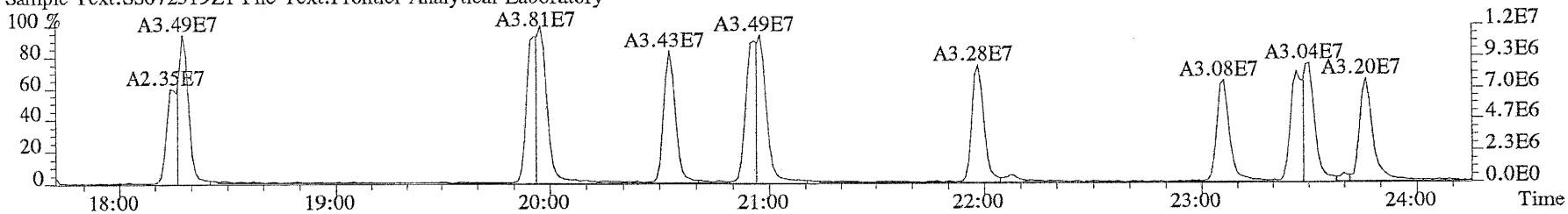
File:25JUL19Z #1-784 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



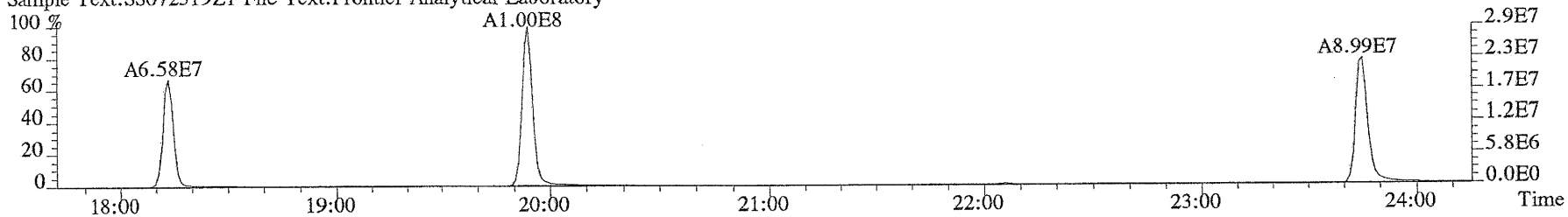
File:25JUL19Z #1-520 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



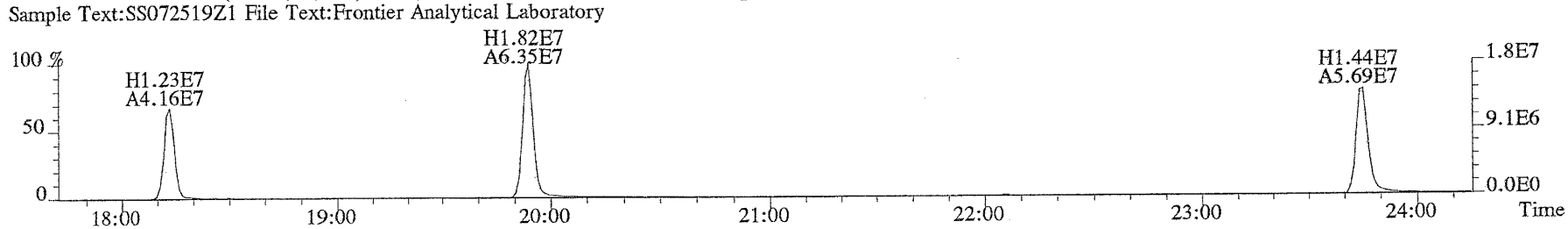
File:25JUL19Z #1-520 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



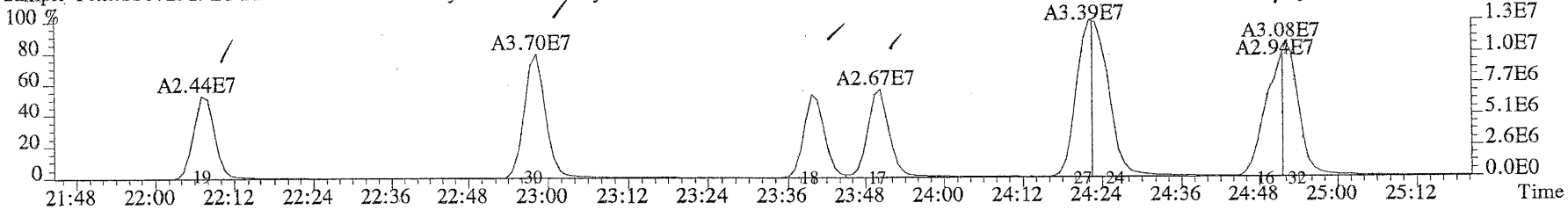
File:25JUL19Z #1-520 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



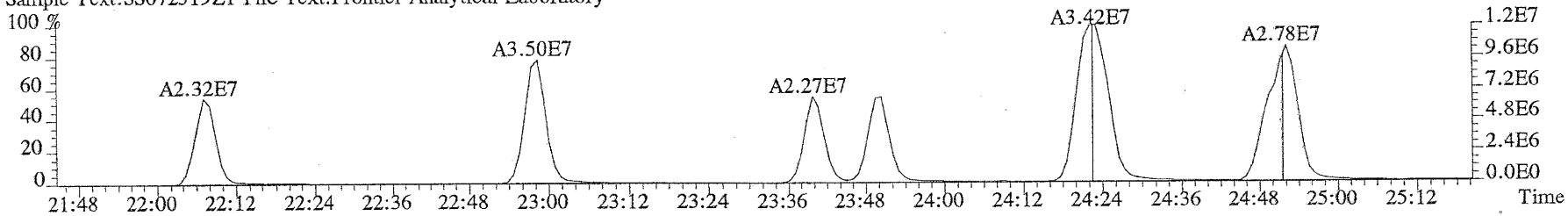
File:25JUL19Z #1-520 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



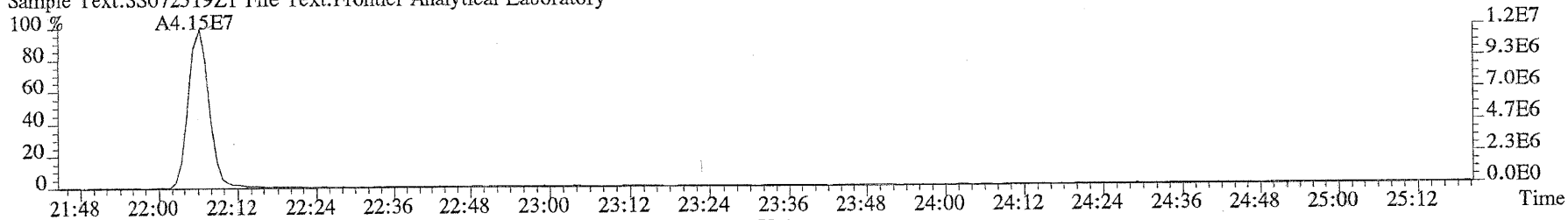
File:25JUL19Z #1-520 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



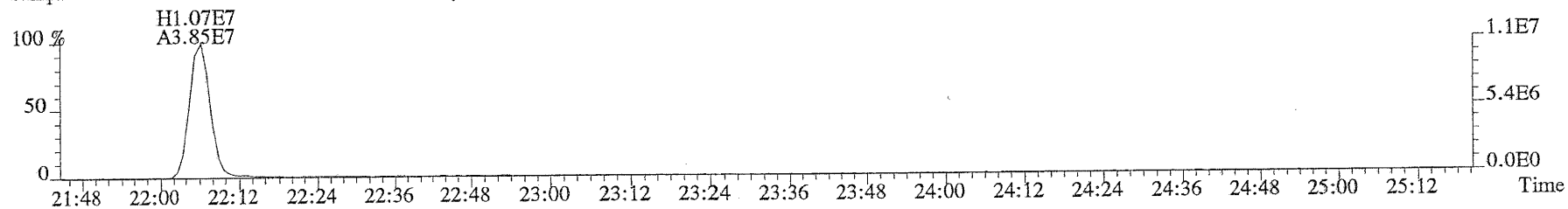
File:25JUL19Z #1-520 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



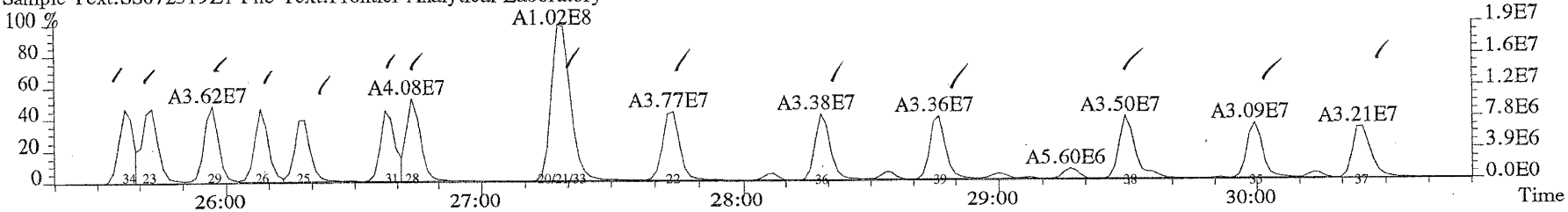
File:25JUL19Z #1-520 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



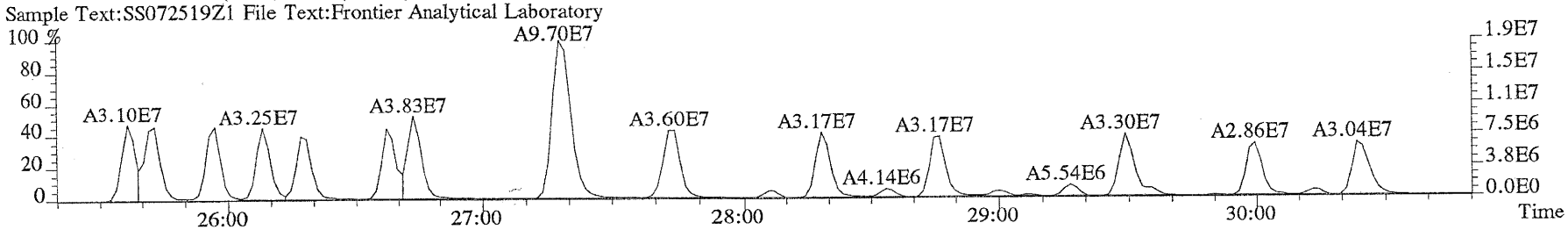
File:25JUL19Z #1-520 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



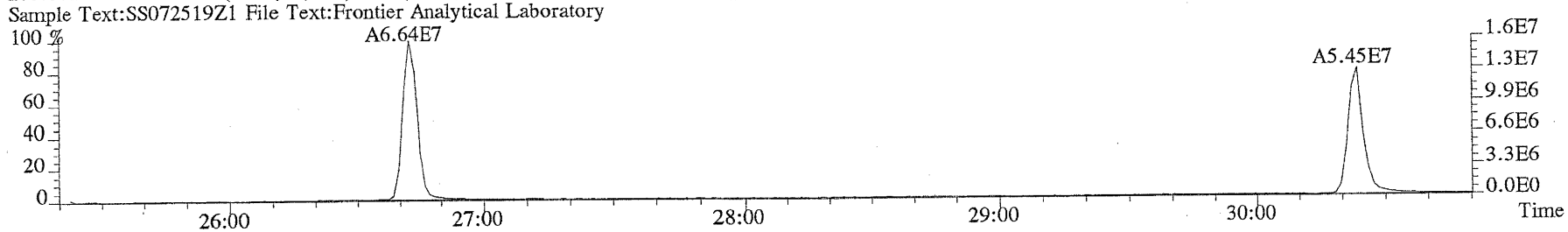
File:25JUL19Z #1-401 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



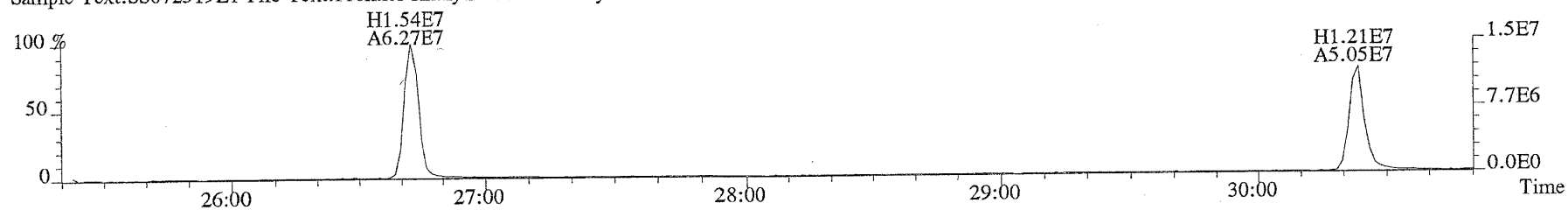
File:25JUL19Z #1-401 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



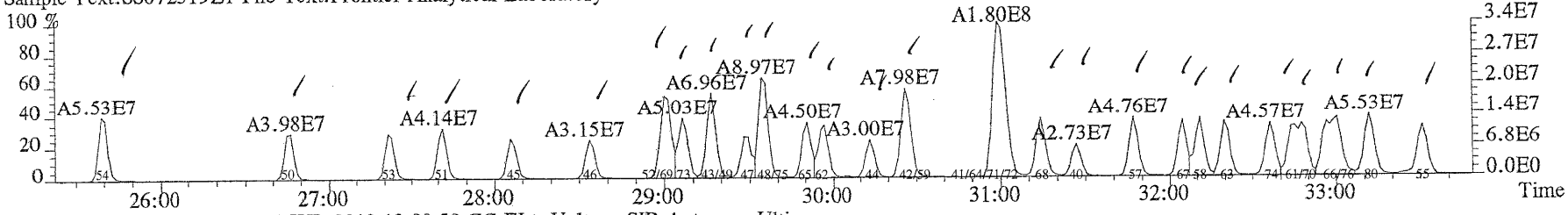
File:25JUL19Z #1-401 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



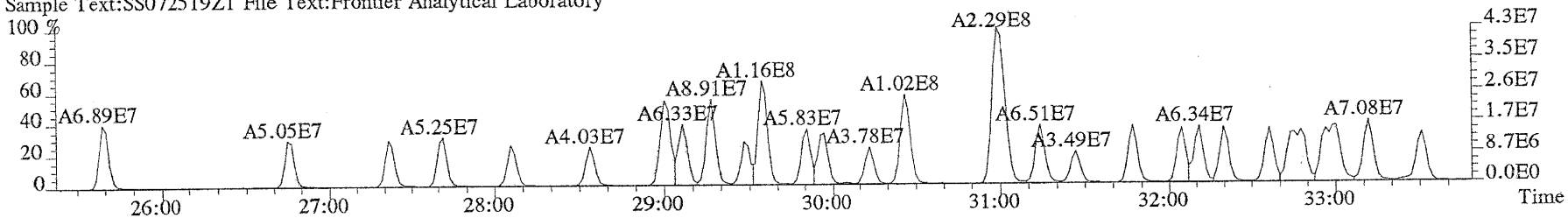
File:25JUL19Z #1-401 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



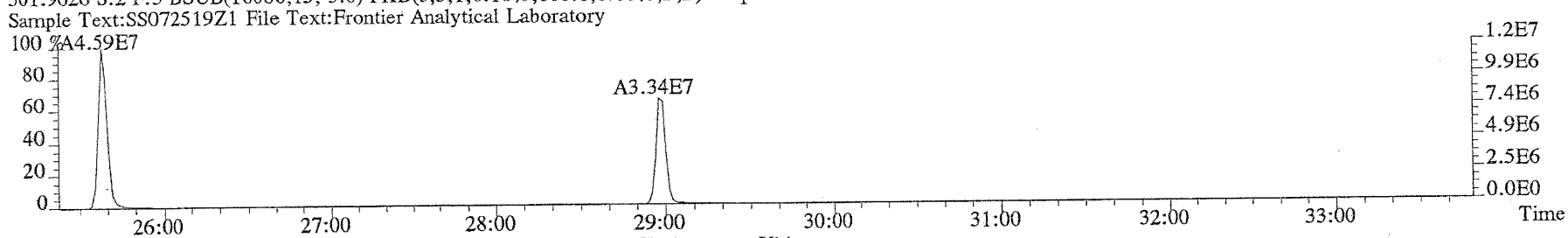
File:25JUL19Z #1-401 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



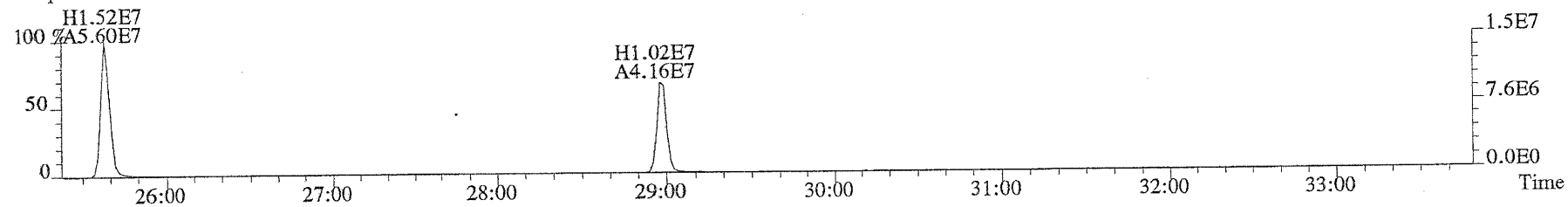
File:25JUL19Z #1-401 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



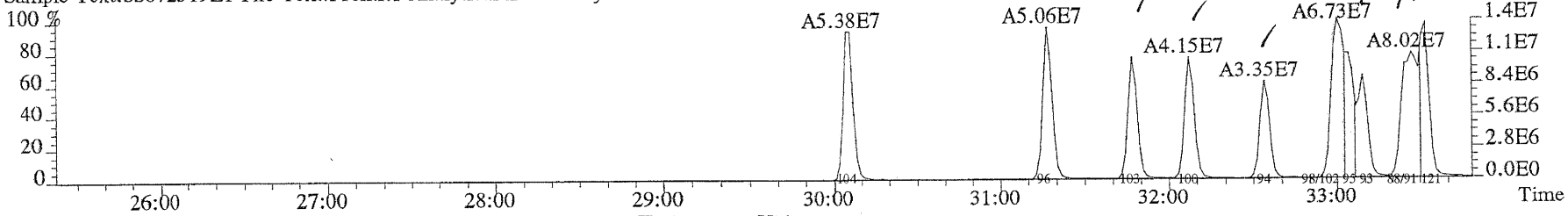
File:25JUL19Z #1-401 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



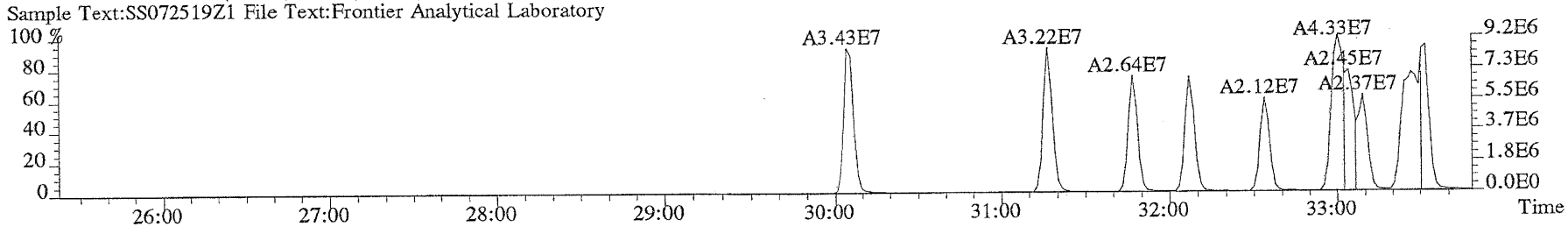
File:25JUL19Z #1-401 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



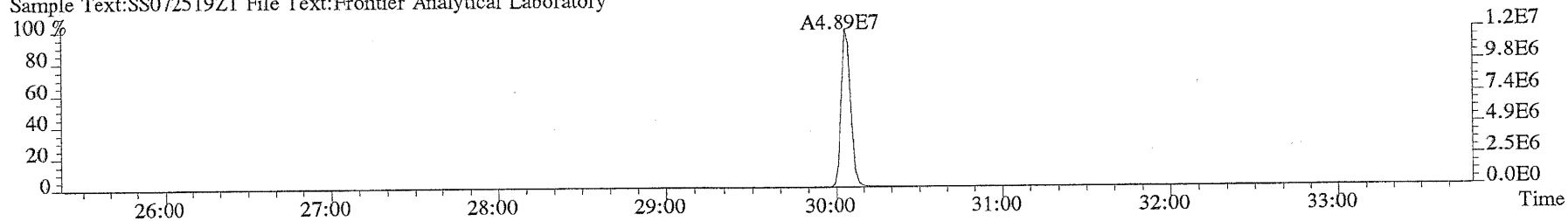
File:25JUL19Z #1-401 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



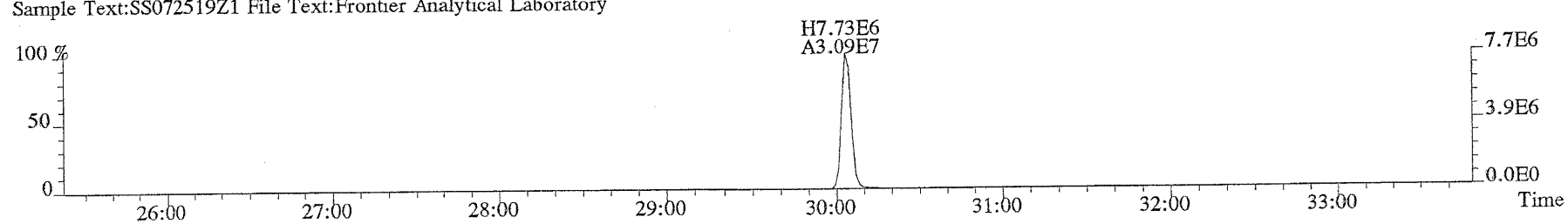
File:25JUL19Z #1-401 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



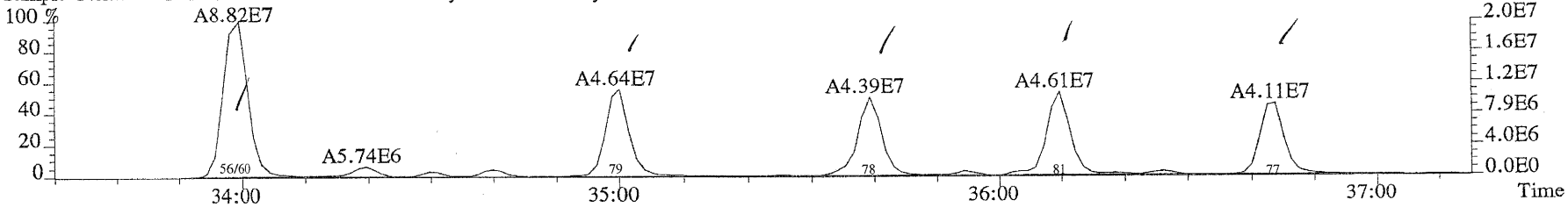
File:25JUL19Z #1-401 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



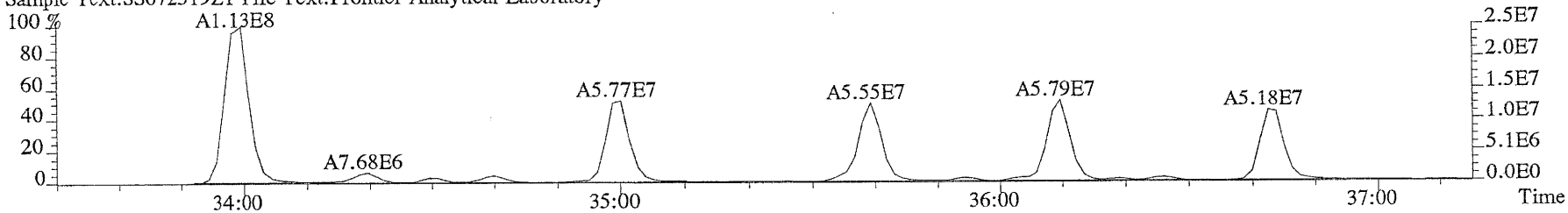
File:25JUL19Z #1-401 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



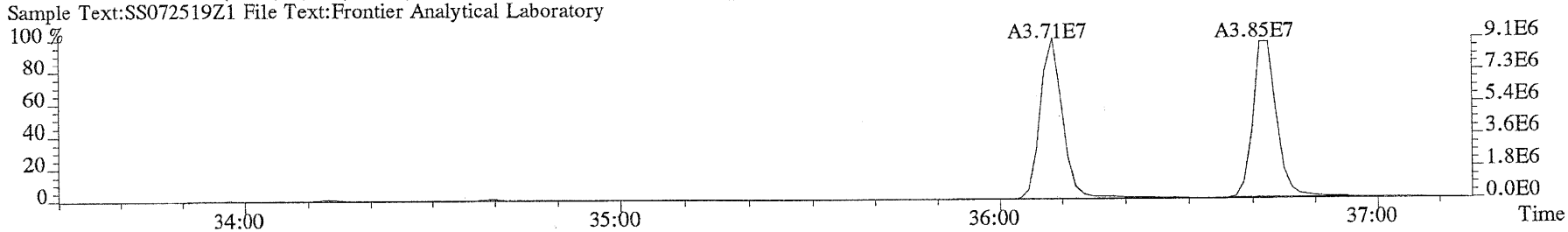
File:25JUL19Z #1-181 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



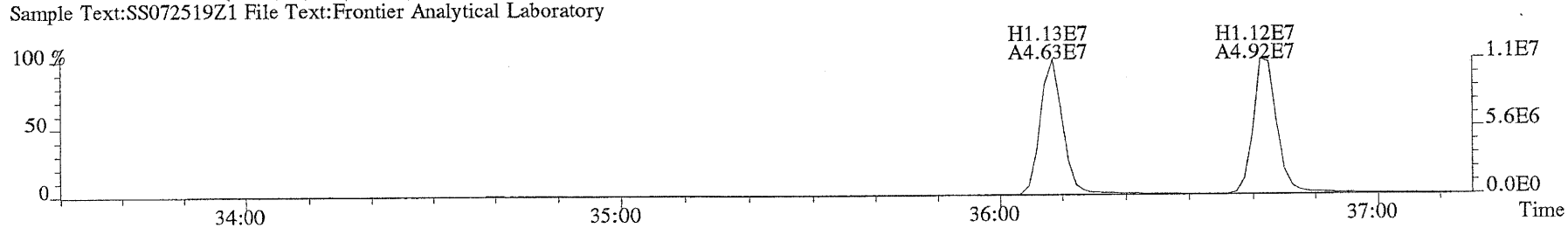
File:25JUL19Z #1-181 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



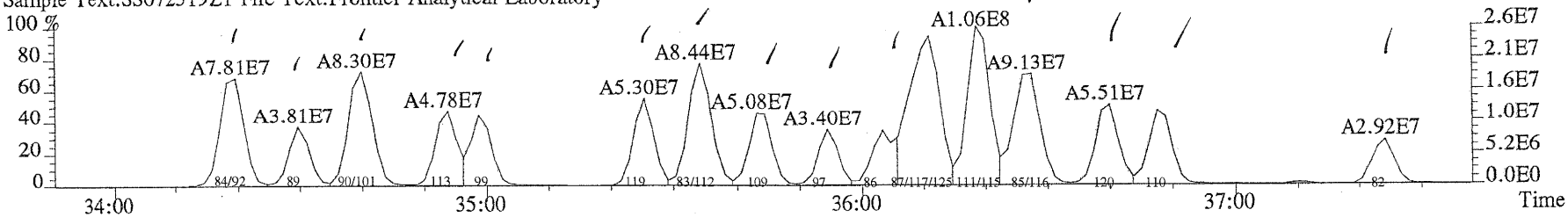
File:25JUL19Z #1-181 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



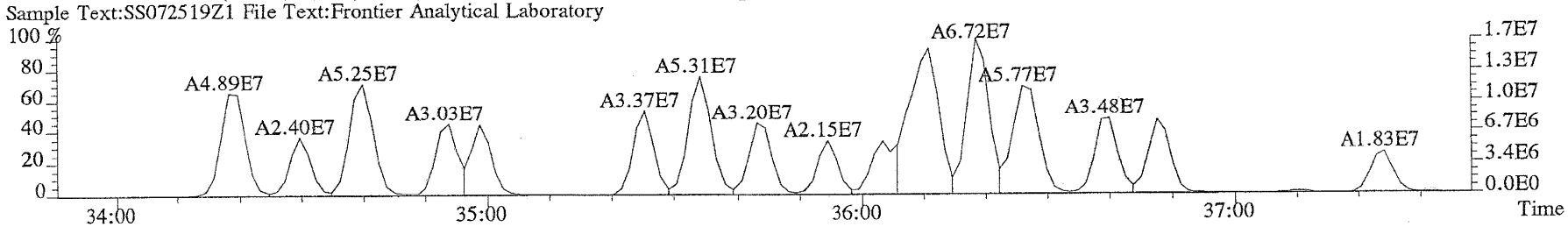
File:25JUL19Z #1-181 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



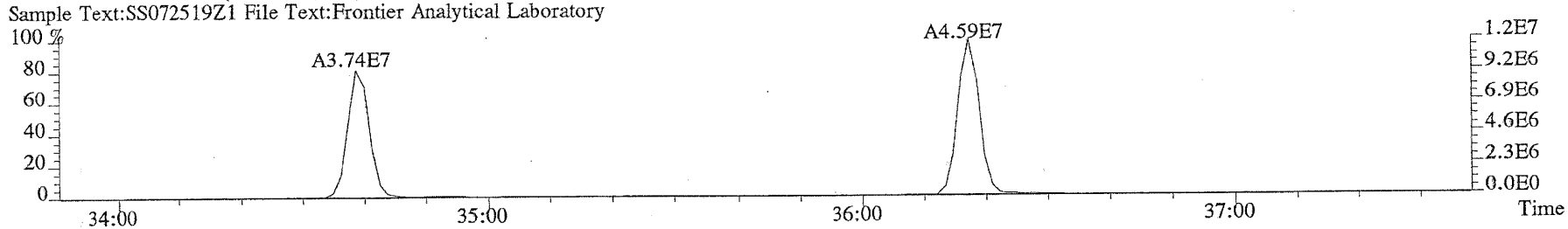
File:25JUL19Z #1-181 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



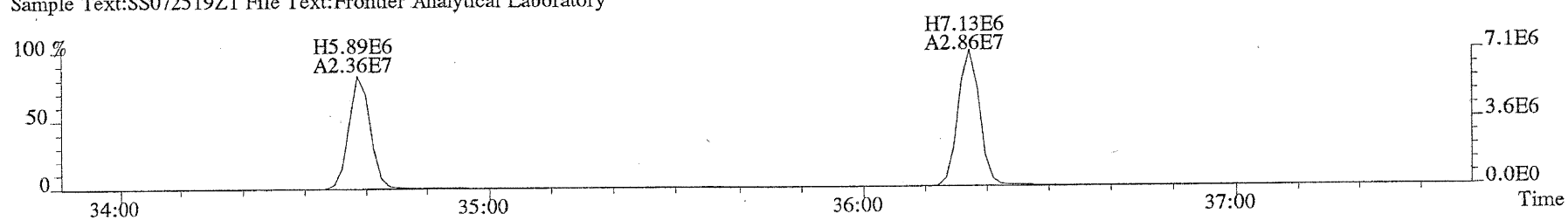
File:25JUL19Z #1-181 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



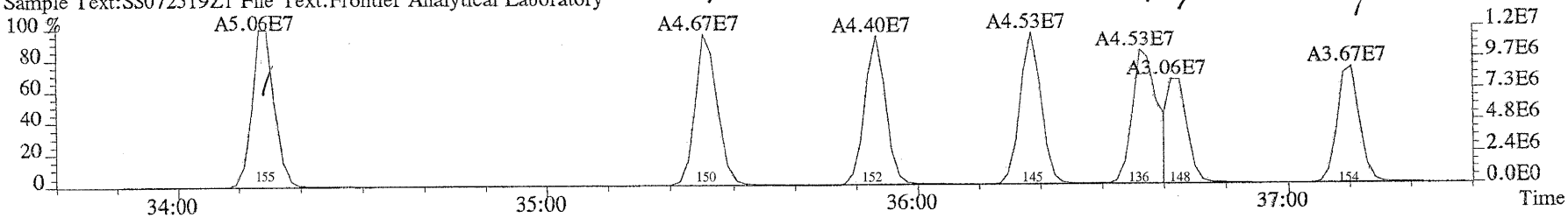
File:25JUL19Z #1-181 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



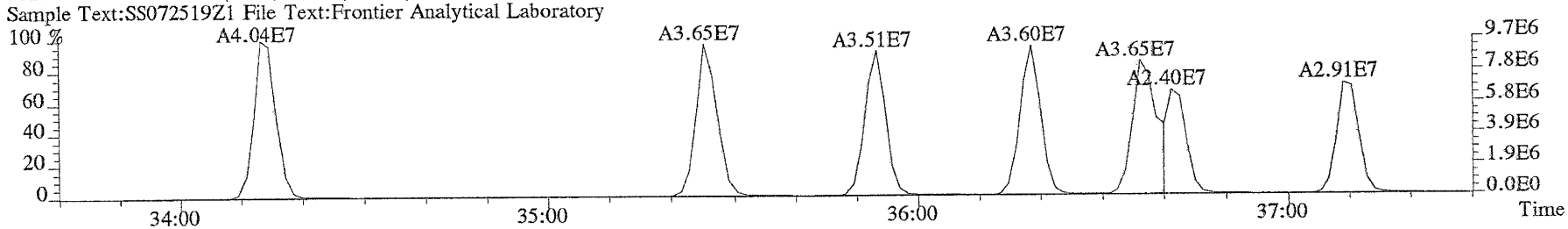
File:25JUL19Z #1-181 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



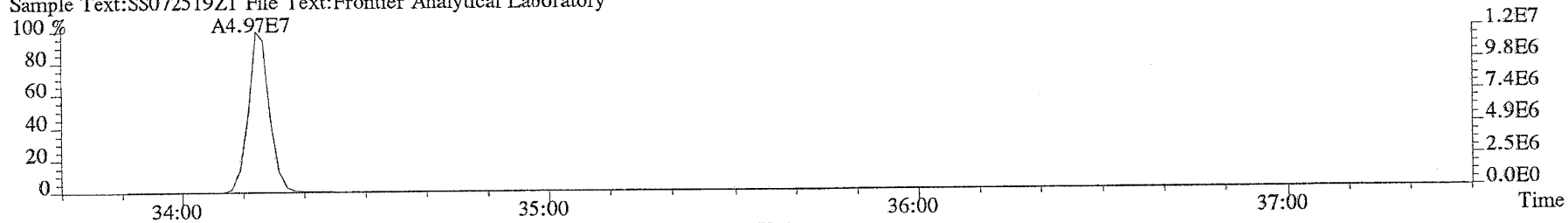
File:25JUL19Z #1-181 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-181 Acq:25-JUL-2019 12:08:50 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:SS072519Z1 File Text:Frontier Analytical Laboratory

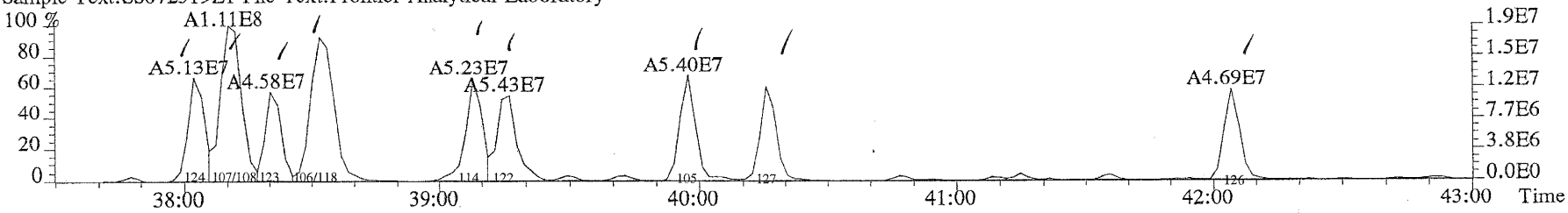


File:25JUL19Z #1-181 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory

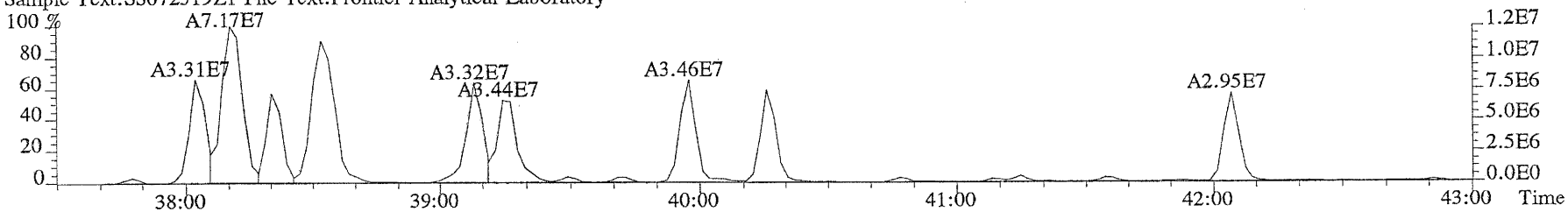


File:25JUL19Z #1-181 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory

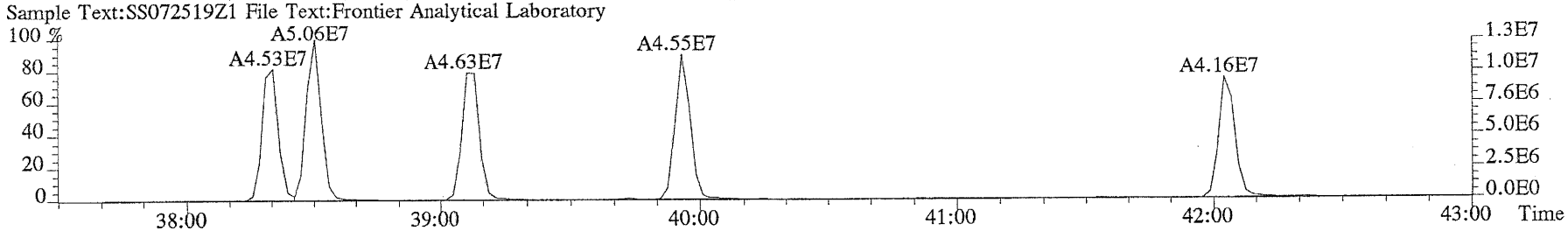
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



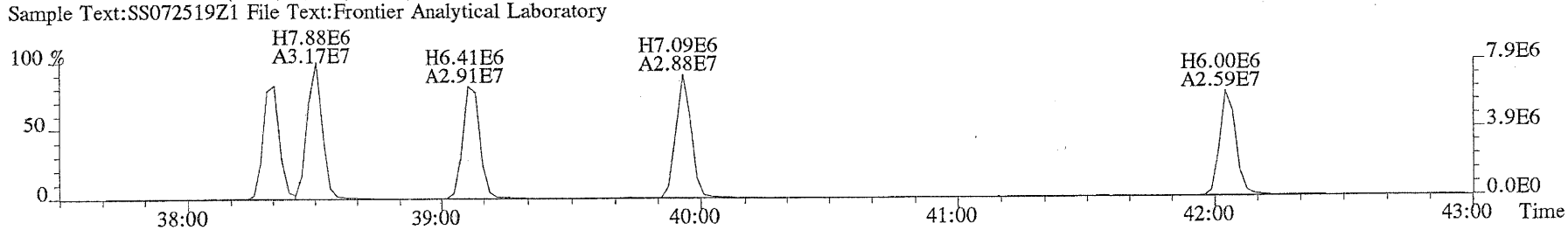
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



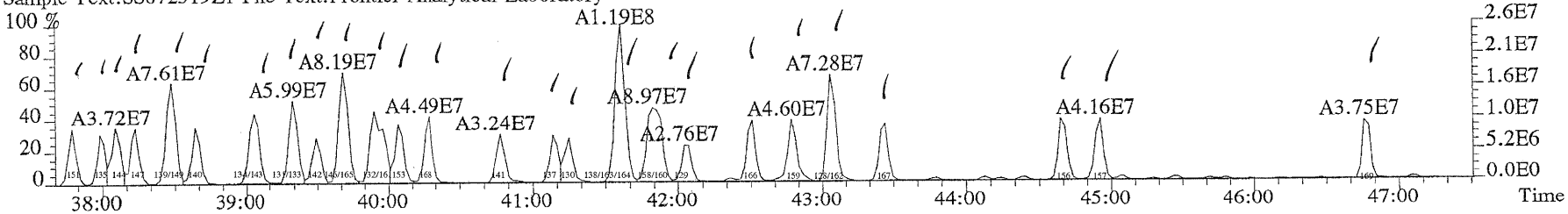
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



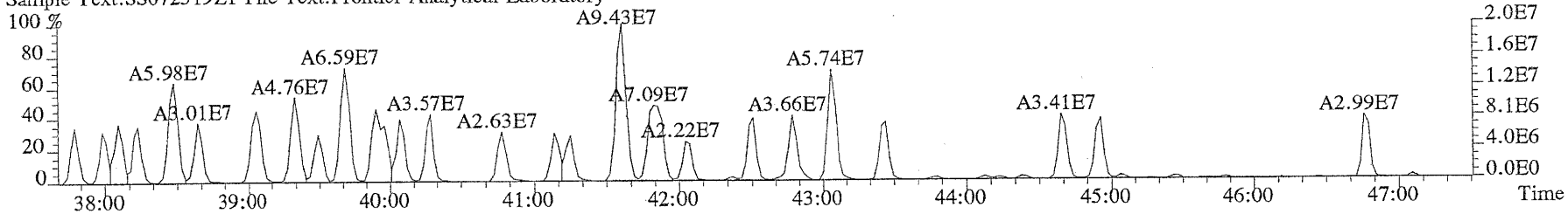
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



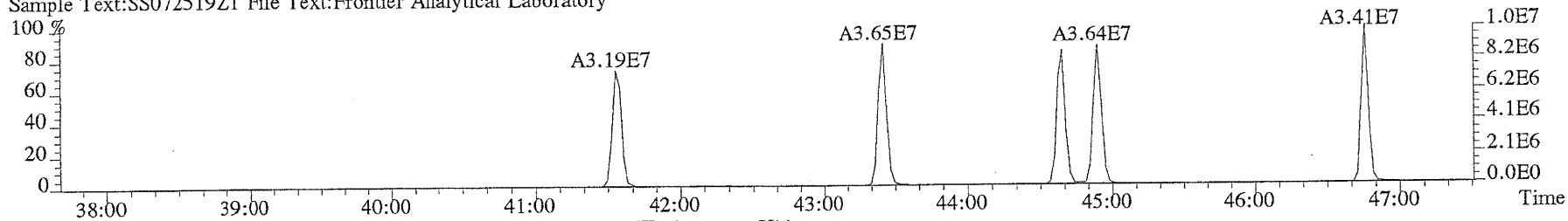
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



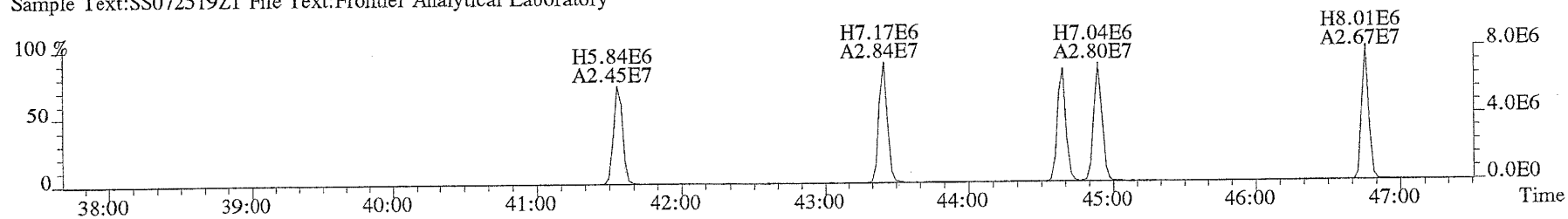
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



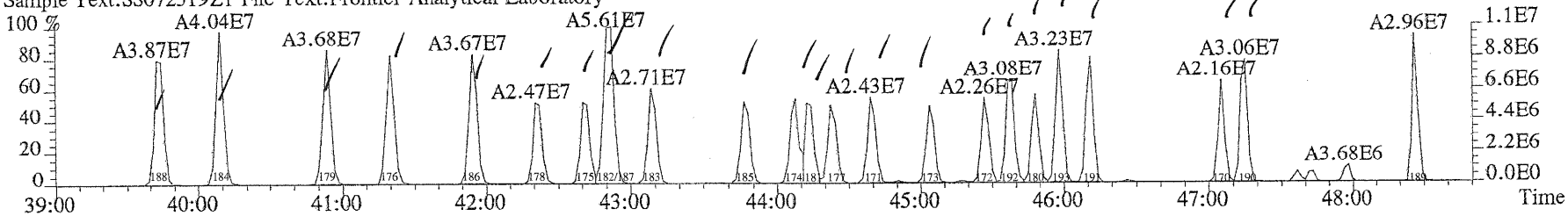
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



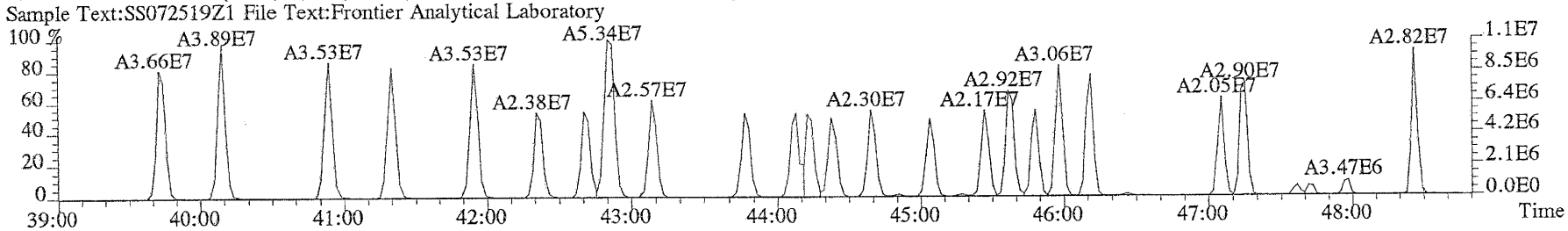
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



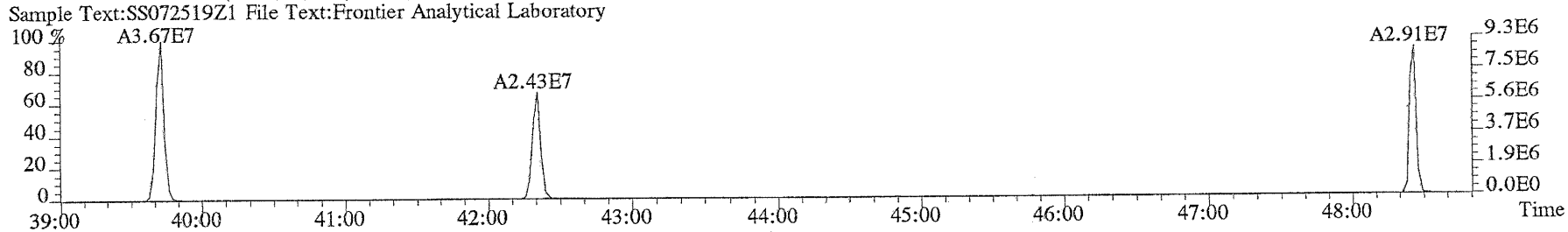
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



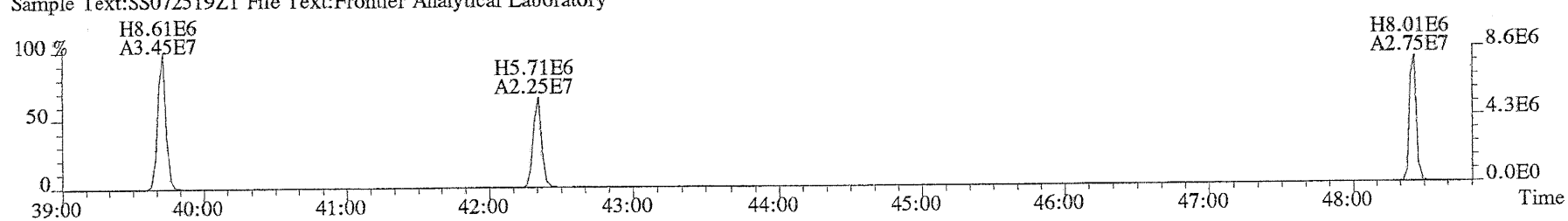
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



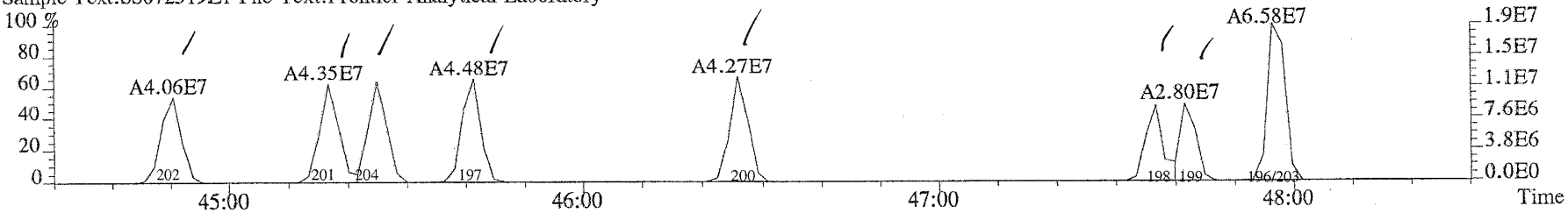
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



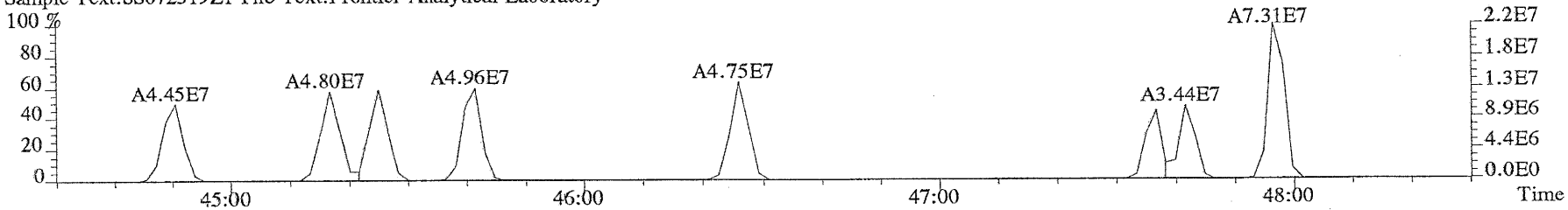
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



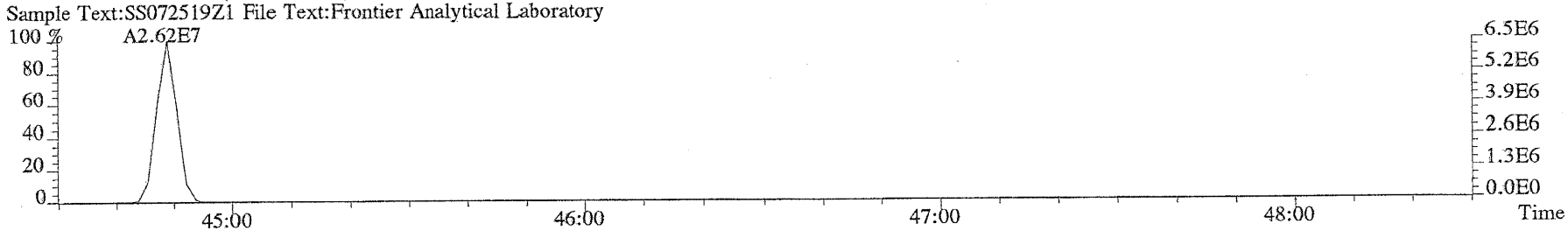
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



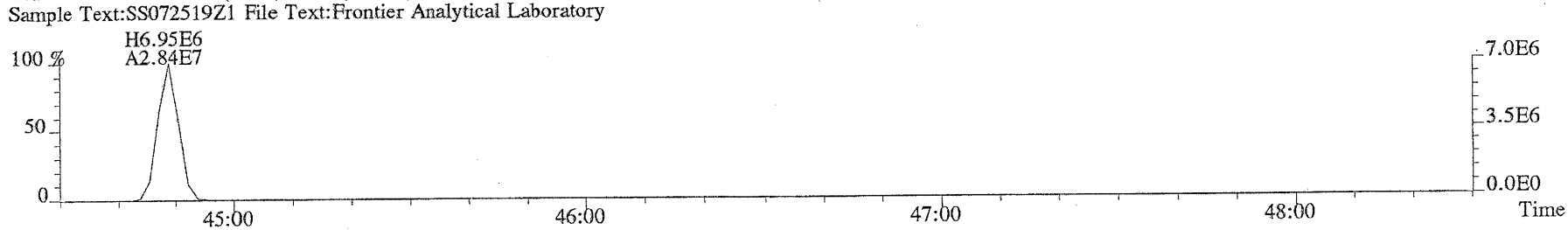
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



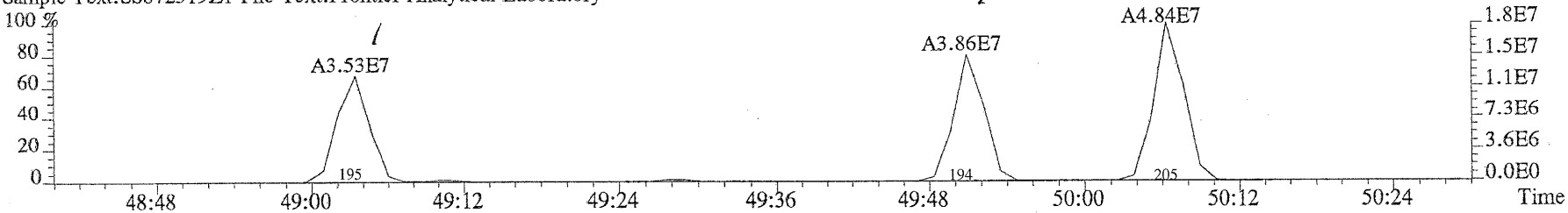
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



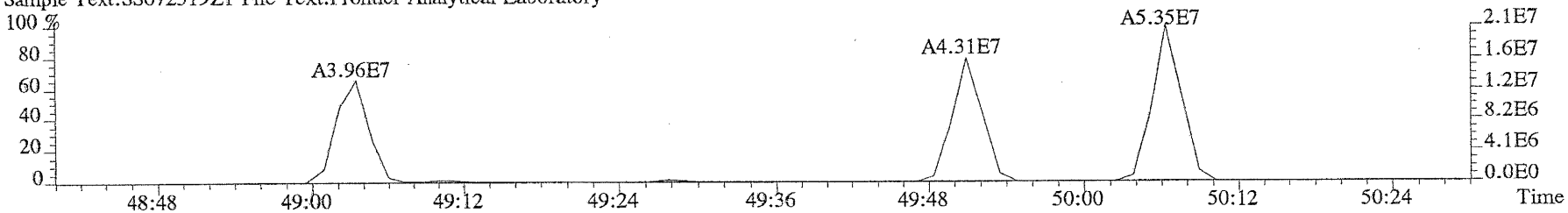
File:25JUL19Z #1-405 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



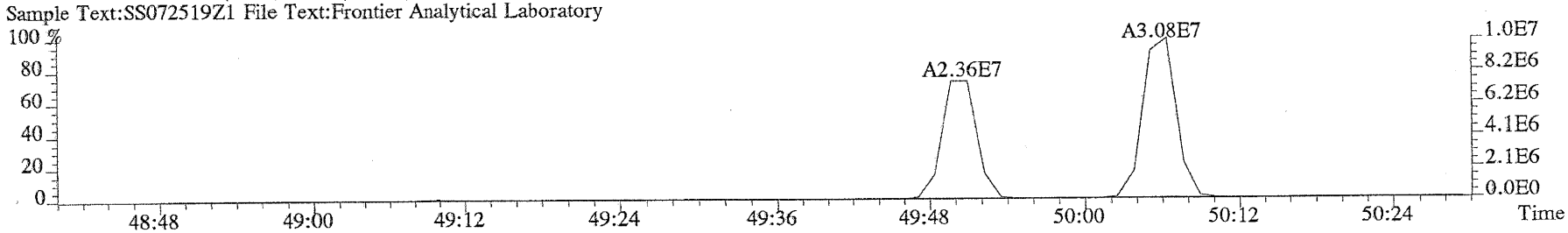
File:25JUL19Z #1-315 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



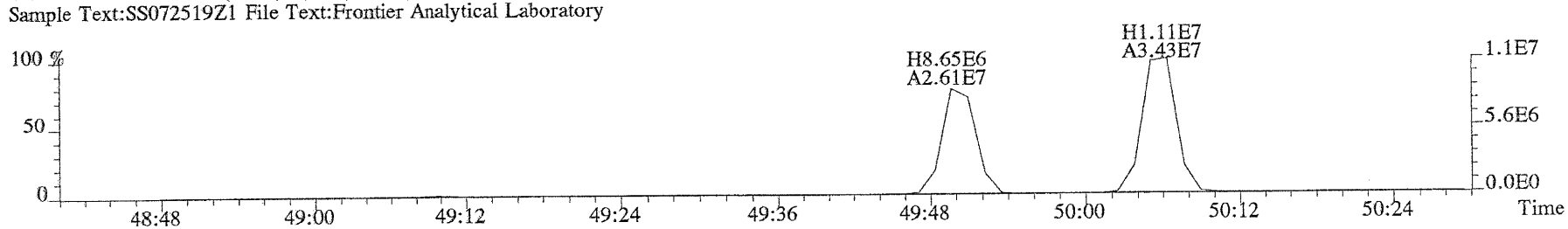
File:25JUL19Z #1-315 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



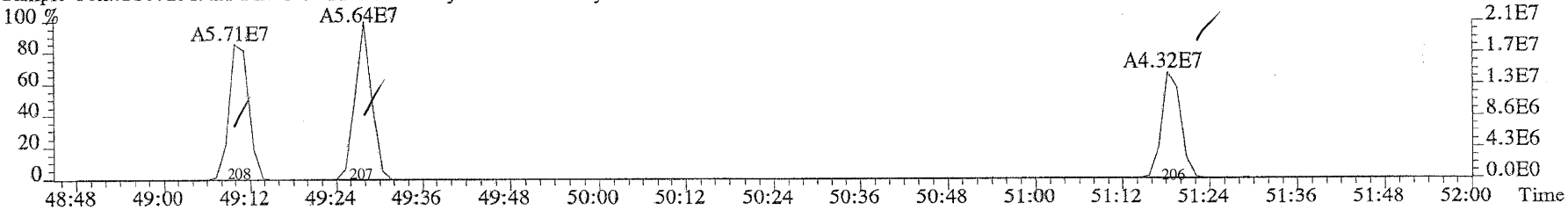
File:25JUL19Z #1-315 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



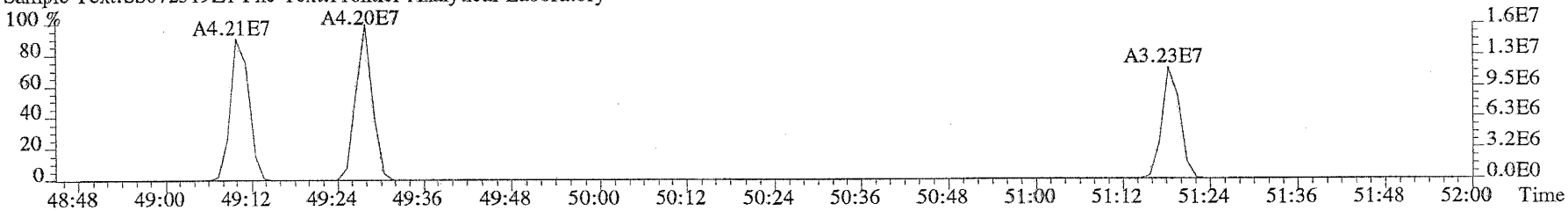
File:25JUL19Z #1-315 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



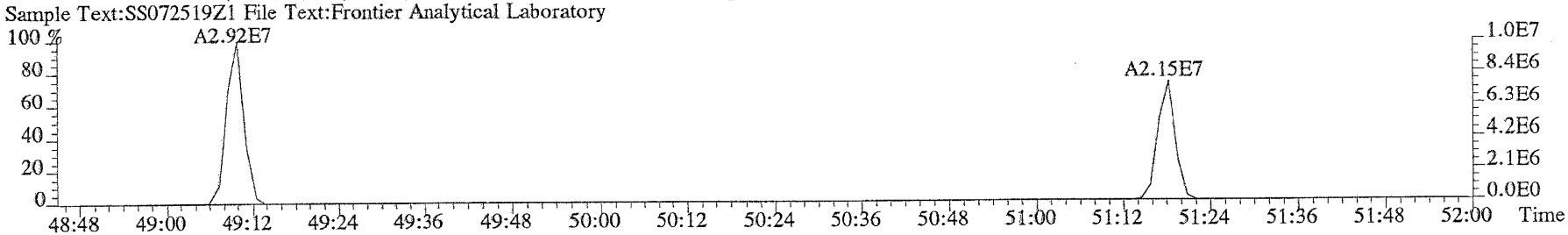
File:25JUL19Z #1-315 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



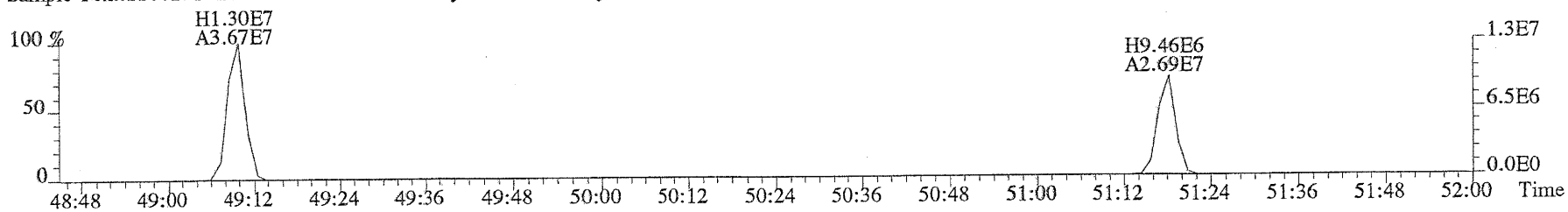
File:25JUL19Z #1-315 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



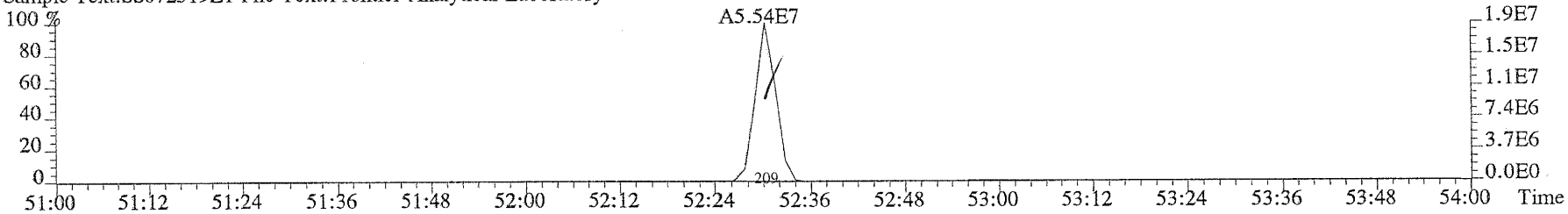
File:25JUL19Z #1-315 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



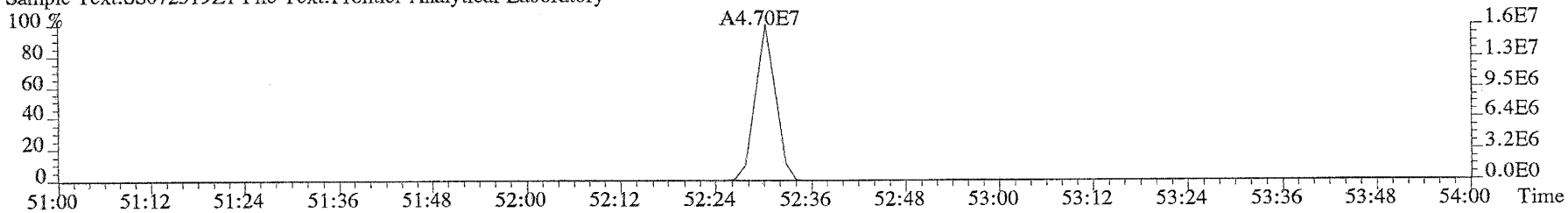
File:25JUL19Z #1-315 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



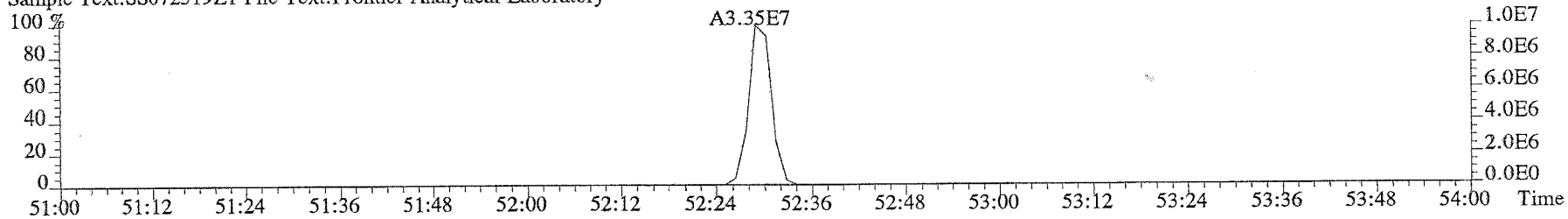
File:25JUL19Z #1-315 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



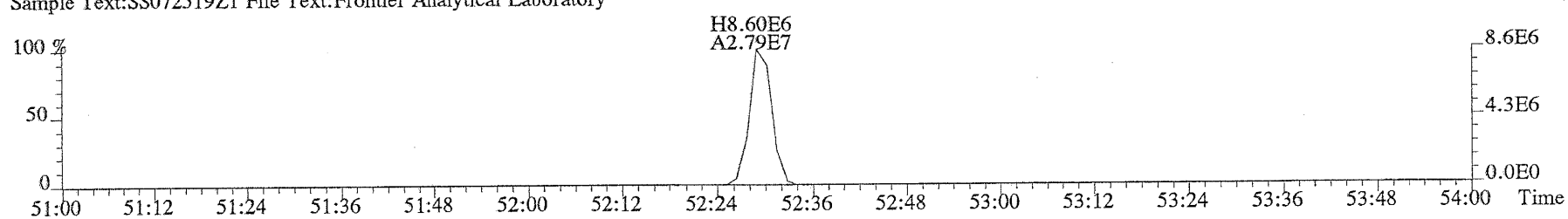
File:25JUL19Z #1-315 Acq:25-JUL-2019 12:08:50 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072519Z1 File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 12:08:50 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:SS072519Z1 File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-315 Acq:25-JUL-2019 12:08:50 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:SS072519Z1 File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 25JUL19Z Sam:16 Analysis Date: 26-JUL-19 01:47:50

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	49.8	37.5 - 62.5
PCB-3	M/M+2	3.18	2.66-3.60	y	52.1	37.5 - 62.5
PCB-4	M/M+2	1.51	1.33-1.79	y	50.7	37.5 - 62.5
PCB-15	M/M+2	1.55	1.33-1.79	y	48.6	37.5 - 62.5
PCB-19	M/M+2	1.07	0.88-1.20	y	59.1	37.5 - 62.5
PCB-37	M/M+2	1.09	0.88-1.20	y	50.0	37.5 - 62.5
PCB-54	M/M+2	0.76	0.65-0.89	y	48.4	37.5 - 62.5
PCB-77	M/M+2	0.82	0.65-0.89	y	51.0	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	1.58	1.32-1.78	y	50.8	37.5 - 62.5
PCB-105	M+2/M+4	1.60	1.32-1.78	y	48.2	37.5 - 62.5
PCB-114	M+2/M+4	1.58	1.32-1.78	y	51.0	37.5 - 62.5
PCB-118	M+2/M+4	1.61	1.32-1.78	y	50.7	37.5 - 62.5
PCB-123	M+2/M+4	1.60	1.32-1.78	y	47.7	37.5 - 62.5
PCB-126	M+2/M+4	1.59	1.32-1.78	y	48.6	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	53.3	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	49.1	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	49.9	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	49.9	37.5 - 62.5
PCB-169	M+2/M+4	1.26	1.05-1.43	y	50.5	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	54.5	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	52.4	37.5 - 62.5
PCB-202	M+2/M+4	0.92	0.76-1.02	y	53.5	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	51.7	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	52.1	37.5 - 62.5
PCB-208	M+4/M+6	1.33	1.13-1.53	y	51.2	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	51.6	37.5 - 62.5

Analyst: _____ Date: 7/26/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 25JUL19Z Sam:16 Analysis Date: 26-JUL-19 01:47:50

	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	96.1	50.0 - 145
13C-PCB-3	M/M+2	3.42	2.66-3.60	y	90.4	50.0 - 145
13C-PCB-4	M/M+2	1.59	1.33-1.79	y	98.2	50.0 - 145
13C-PCB-15	M/M+2	1.56	1.33-1.79	y	87.6	50.0 - 145
13C-PCB-19	M/M+2	1.12	0.88-1.20	y	86.1	50.0 - 145
13C-PCB-37	M/M+2	1.11	0.88-1.20	y	73.3	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	122	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	78.8	50.0 - 145
13C-PCB-81	M/M+2	0.78	0.65-0.89	y	74.9	50.0 - 145
13C-PCB-104	M+2/M+4	1.58	1.32-1.78	y	105	50.0 - 145
13C-PCB-105	M+2/M+4	1.56	1.32-1.78	y	89.4	50.0 - 145
13C-PCB-114	M+2/M+4	1.58	1.32-1.78	y	83.5	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	84.9	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	88.0	50.0 - 145
13C-PCB-126	M+2/M+4	1.58	1.32-1.78	y	83.0	50.0 - 145
13C-PCB-155	M+2/M+4	1.33	1.05-1.43	y	88.4	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	1.30	1.05-1.43	y	92.4	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	102	50.0 - 145
13C-PCB-169	M+2/M+4	1.28	1.05-1.43	y	98.6	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	92.3	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	111	50.0 - 145
13C-PCB-202	M+2/M+4	0.93	0.76-1.02	y	90.1	50.0 - 145
13C-PCB-205	M+2/M+4	0.88	0.76-1.02	y	102	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	110	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	115	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	111	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.08	0.88-1.20	y	79.7	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	96.9	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	97.7	75.0 - 125

Analyst: _____ Date: 7/26/19

FAL ID: ST072519Z2 Filename: 25JUL19Z Sam:16 Acquired: 26-JUL-19 01:47:50 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 24JUL19Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	7.38e+07	3.11 y	14:34	1.19	49.8		2.50	-	-	*	-
13C-PCB-1	1.24e+08	3.24 y	14:33	1.02	96.1		2.50				96.1
PCB-3	6.79e+07	3.18 y	17:00	1.18	52.1		2.50	-	-	*	-
13C-PCB-3	1.11e+08	3.42 y	16:59	0.97	90.4		2.50				90.4
PCB-4	4.86e+07	1.51 y	18:14	1.04	50.7		2.50	-	-	*	-
13C-PCB-4	9.17e+07	1.59 y	18:13	0.74	98.2		2.50				98.2
PCB-15	5.35e+07	1.55 y	23:46	1.03	48.6		2.50	-	-	*	-
13C-PCB-15	1.07e+08	1.56 y	23:45	0.96	87.6		2.50				87.6
PCB-19	3.76e+07	1.07 y	22:07	1.11	59.1		2.50	-	-	*	-
13C-PCB-19	5.73e+07	1.12 y	22:05	0.53	86.1		2.50				86.1
13C-PCB-9	1.27e+08	1.62 y	19:54	-	163		2.50				
PCB-37	3.22e+07	1.09 y	30:25	1.04	50.0		2.50	-	-	*	-
13C-PCB-37	6.21e+07	1.11 y	30:22	1.57	73.3		2.50				73.3
PCB-54	5.12e+07	0.76 y	25:39	1.16	48.4		2.50	-	-	*	-
13C-PCB-54	9.09e+07	0.80 y	25:38	1.38	122		2.50				122
PCB-104	3.46e+07	1.58 y	30:04	1.08	50.8		2.50	-	-	*	-
13C-PCB-104	6.30e+07	1.58 y	30:03	1.11	105		2.50				105
13C-PCB-28	7.36e+07	1.08 y	26:42	1.71	79.7		2.50				79.7
13C-PCB-52	5.41e+07	0.78 y	28:57	-	142		2.50				
PCB-81	3.06e+07	0.81 y	36:10	1.06	51.3		2.50	-	-	*	-
13C-PCB-81	5.61e+07	0.78 y	36:08	1.50	74.9		2.50				74.9
PCB-77	3.21e+07	0.82 y	36:42	1.02	51.0		2.50	-	-	*	-
13C-PCB-77	6.16e+07	0.79 y	36:42	1.57	78.8		2.50				78.8
PCB-155	3.41e+07	1.28 y	34:13	1.02	53.3		2.50	-	-	*	-
13C-PCB-155	6.26e+07	1.33 y	34:12	1.42	88.4		2.50				88.4
13C-PCB-111	6.23e+07	1.60 y	36:17	1.29	96.9		2.50				96.9
13C-PCB-101	4.99e+07	1.63 y	34:39	-	152		2.50				
PCB-123	2.87e+07	1.60 y	38:20	1.03	47.7		2.50	-	-	*	-
13C-PCB-123	5.82e+07	1.59 y	38:19	1.40	88.0		2.50				88.0
PCB-118	3.19e+07	1.61 y	38:30	1.02	50.7		2.50	-	-	*	-
13C-PCB-118	6.17e+07	1.61 y	38:30	1.53	84.9		2.50				84.9
PCB-114	2.96e+07	1.58 y	39:08	1.01	51.0		2.50	-	-	*	-
13C-PCB-114	5.73e+07	1.58 y	39:06	1.45	83.5		2.50				83.5
PCB-105	2.98e+07	1.60 y	39:57	1.02	48.2		2.50	-	-	*	-
13C-PCB-105	6.10e+07	1.56 y	39:56	1.44	89.4		2.50				89.4
PCB-126	2.67e+07	1.59 y	42:04	1.02	48.6		2.50	-	-	*	-
13C-PCB-126	5.39e+07	1.58 y	42:04	1.37	83.0		2.50				83.0
PCB-167	3.30e+07	1.25 y	43:26	1.07	49.9		2.50	-	-	*	-
13C-PCB-167	6.19e+07	1.27 y	43:25	1.28	102		2.50				102
PCB-156	3.18e+07	1.27 y	44:39	1.10	49.1		2.50	-	-	*	-
13C-PCB-156	5.90e+07	1.28 y	44:39	1.24	101		2.50				101
PCB-157	3.10e+07	1.27 y	44:55	1.06	49.9		2.50	-	-	*	-
13C-PCB-157	5.85e+07	1.30 y	44:54	1.34	92.4		2.50				92.4
PCB-169	3.11e+07	1.26 y	46:47	1.06	50.5		2.50	-	-	*	-
13C-PCB-169	5.80e+07	1.28 y	46:46	1.24	98.6		2.50				98.6
PCB-188	3.11e+07	1.06 y	39:42	1.02	54.5		2.50	-	-	*	-
13C-PCB-188	5.63e+07	1.07 y	39:41	1.29	92.3		2.50				92.3
PCB-189	2.93e+07	1.05 y	48:26	0.99	52.4		2.50	-	-	*	-
13C-PCB-189	5.63e+07	1.06 y	48:26	1.07	111		2.50				111
PCB-202	2.46e+07	0.92 y	44:50	0.99	53.5		2.50	-	-	*	-
13C-PCB-202	4.64e+07	0.93 y	44:49	1.09	90.1		2.50				90.1
13C-PCB-178	3.73e+07	1.06 y	42:19	0.81	97.7		2.50				97.7
13C-PCB-138	4.74e+07	1.28 y	41:33	-	147		2.50				

FAL ID: ST072519Z2 Filename: 25JUL19Z Sam:16 Acquired: 26-JUL-19 01:47:50 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 24JUL19Z GC Column: DB1MS Amount: 1.000

PCB-205	3.27e+07	0.90 y	50:06	1.02	51.7	2.50	-	-	*	-
13C-PCB-205	6.18e+07	0.88 y	50:05	1.40	102	2.50				102
PCB-208	3.37e+07	1.33 y	49:10	0.98	51.2	2.50	-	-	*	-
13C-PCB-208	6.75e+07	0.80 y	49:09	1.36	115	2.50				115
PCB-206	2.47e+07	1.37 y	51:18	0.99	52.1	2.50	-	-	*	-
13C-PCB-206	4.77e+07	0.81 y	51:17	1.01	110	2.50				110
PCB-209	3.27e+07	1.19 y	52:30	1.09	51.6	2.50	-	-	*	-
13C-PCB-209	5.83e+07	1.21 y	52:30	1.21	111	2.50				111
13C-PCB-194	4.31e+07	0.91 y	49:50	-	141	2.50				

Analyst: [illegible] Date: 7/26/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:25JUL19Z Instrument: FAL4 GC: DB1MS Experiment:1668

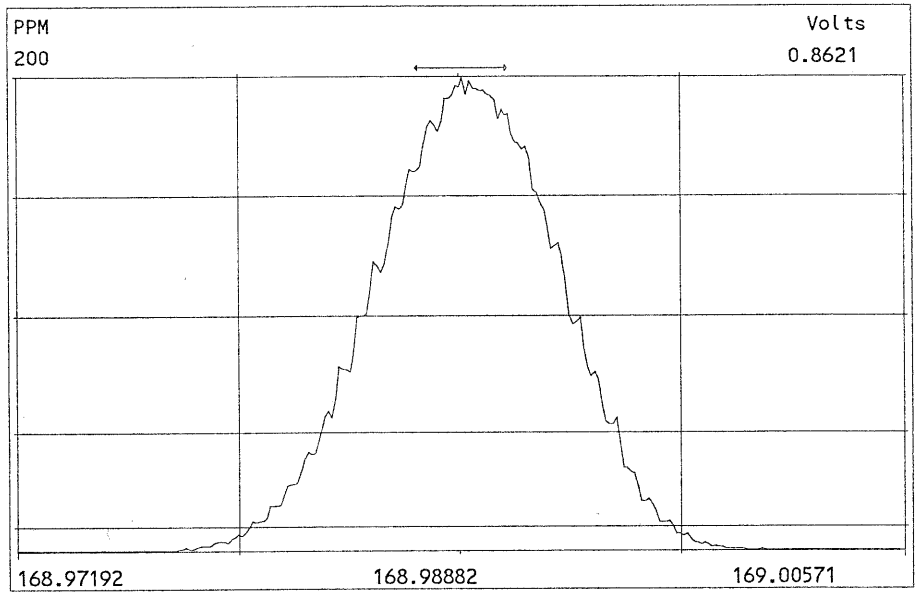
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
25JUL19Z	1	ST072519Z1	1668 CS3 R181204D	25-JUL-19 11:10:30	ST072519Z1	ST072519Z2	BS
25JUL19Z	2	SS072519Z1	Daily 209 190408A	25-JUL-19 12:08:50	ST072519Z1	ST072519Z2	BS
25JUL19Z	3	04984-001-0001-OPR	OPR	25-JUL-19 13:07:37	ST072519Z1	ST072519Z2	BS
25JUL19Z	4	04984-001-0001-MB	Method Blank	25-JUL-19 14:06:23	ST072519Z1	ST072519Z2	BS
25JUL19Z	5	12532-011-0001-SA	LDW-Y2-IN-ENR+AC-CB-CORE	25-JUL-19 15:05:09	ST072519Z1	ST072519Z2	BS
25JUL19Z	6	12532-012-0001-SA	LDW-Y2-IN-ENR+AC-CC-CORE	25-JUL-19 16:03:30	ST072519Z1	ST072519Z2	BS
25JUL19Z	7	12532-013-0001-SA	LDW-Y2-SC-ENR-CC-CORE	25-JUL-19 17:01:52	ST072519Z1	ST072519Z2	BS
25JUL19Z	8	12532-014-0001-SA	LDW-Y2-SC-ENR-CD-CORE	25-JUL-19 18:00:33	ST072519Z1	ST072519Z2	BS
25JUL19Z	9	12532-015-0001-SA	LDW-Y2-SC-ENR-CE-CORE	25-JUL-19 18:58:54	ST072519Z1	ST072519Z2	BS
25JUL19Z	10	12532-016-0001-SA	LDW-Y2-SC-ENR+AC-CAD-CORE	25-JUL-19 19:57:41	ST072519Z1	ST072519Z2	BS
25JUL19Z	11	12532-017-0001-SA	LDW-Y2-SC-ENR+AC-CB-CORE	25-JUL-19 20:56:03	ST072519Z1	ST072519Z2	BS
25JUL19Z	12	12532-018-0001-SA	LDW-Y2-SC-ENR+AC-CC-CORE	25-JUL-19 21:54:24	ST072519Z1	ST072519Z2	BS
25JUL19Z	13	12532-019-0001-SA	LDW-Y2-SC-ENR-SS	25-JUL-19 22:52:45	ST072519Z1	ST072519Z2	BS
25JUL19Z	14	12532-020-0001-SA	LDW-Y2-SC-ENR+AC-SS	25-JUL-19 23:51:06	ST072519Z1	ST072519Z2	BS
25JUL19Z	15	SB072519Z1	Solvent Blank	26-JUL-19 00:49:27	ST072519Z1	ST072519Z2	BS
25JUL19Z	16	ST072519Z2	1668 CS3 R181204D	26-JUL-19 01:47:50	ST072519Z1	ST072519Z2	BS

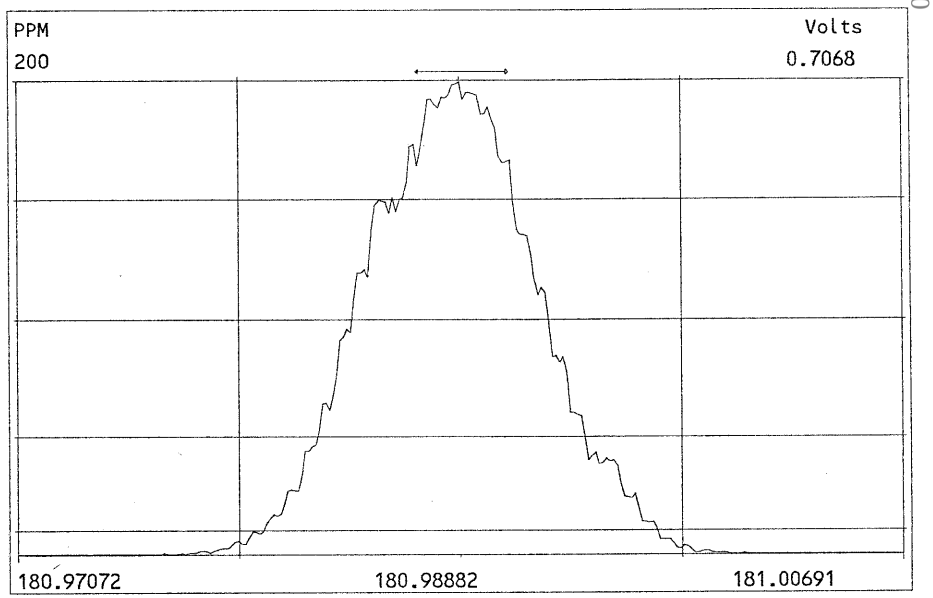
8/26/19

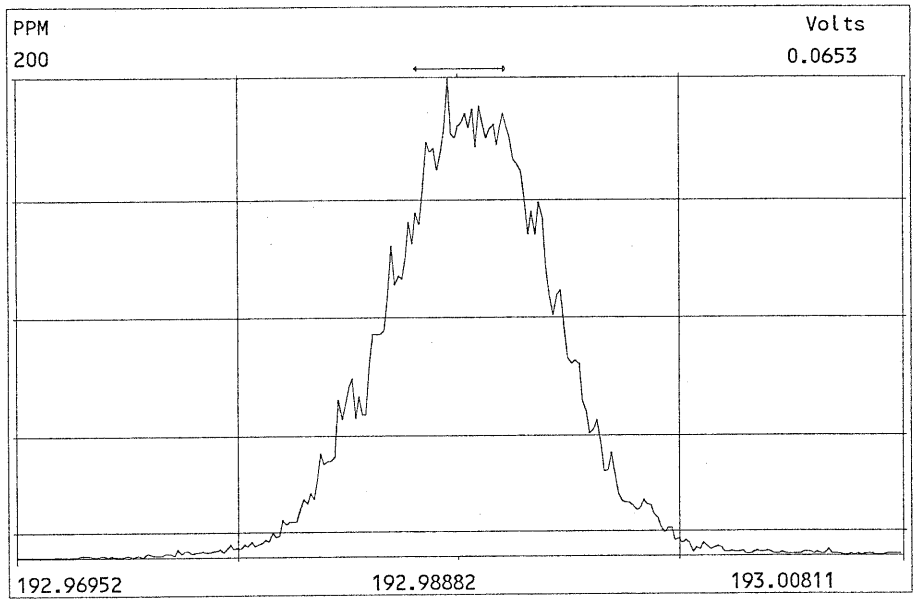
Data Backed Up:_____

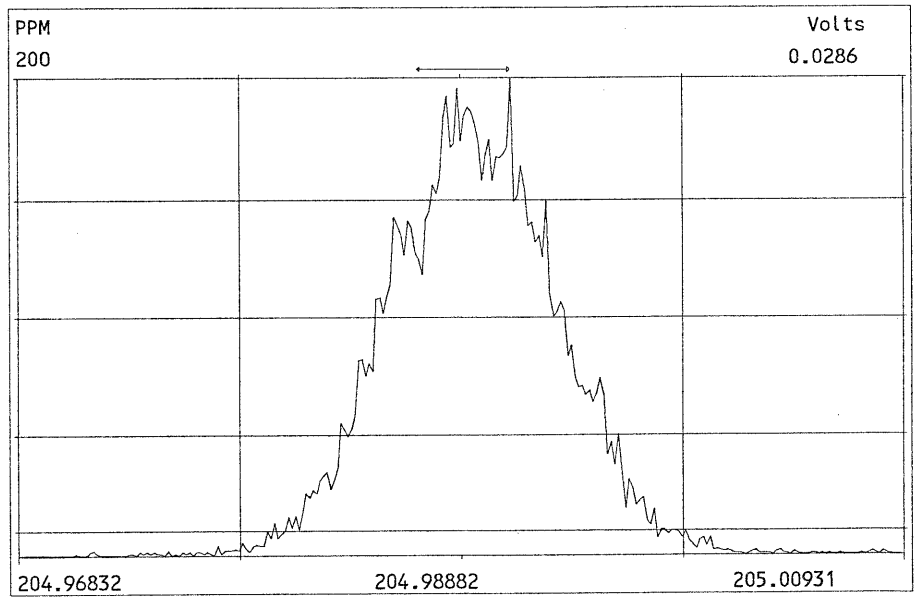
Date:_____

Peak Locate Examination:25-JUL-2019:11:08 File:25JUL19Z
Experiment:1668PCB Function:1 Reference:PFK

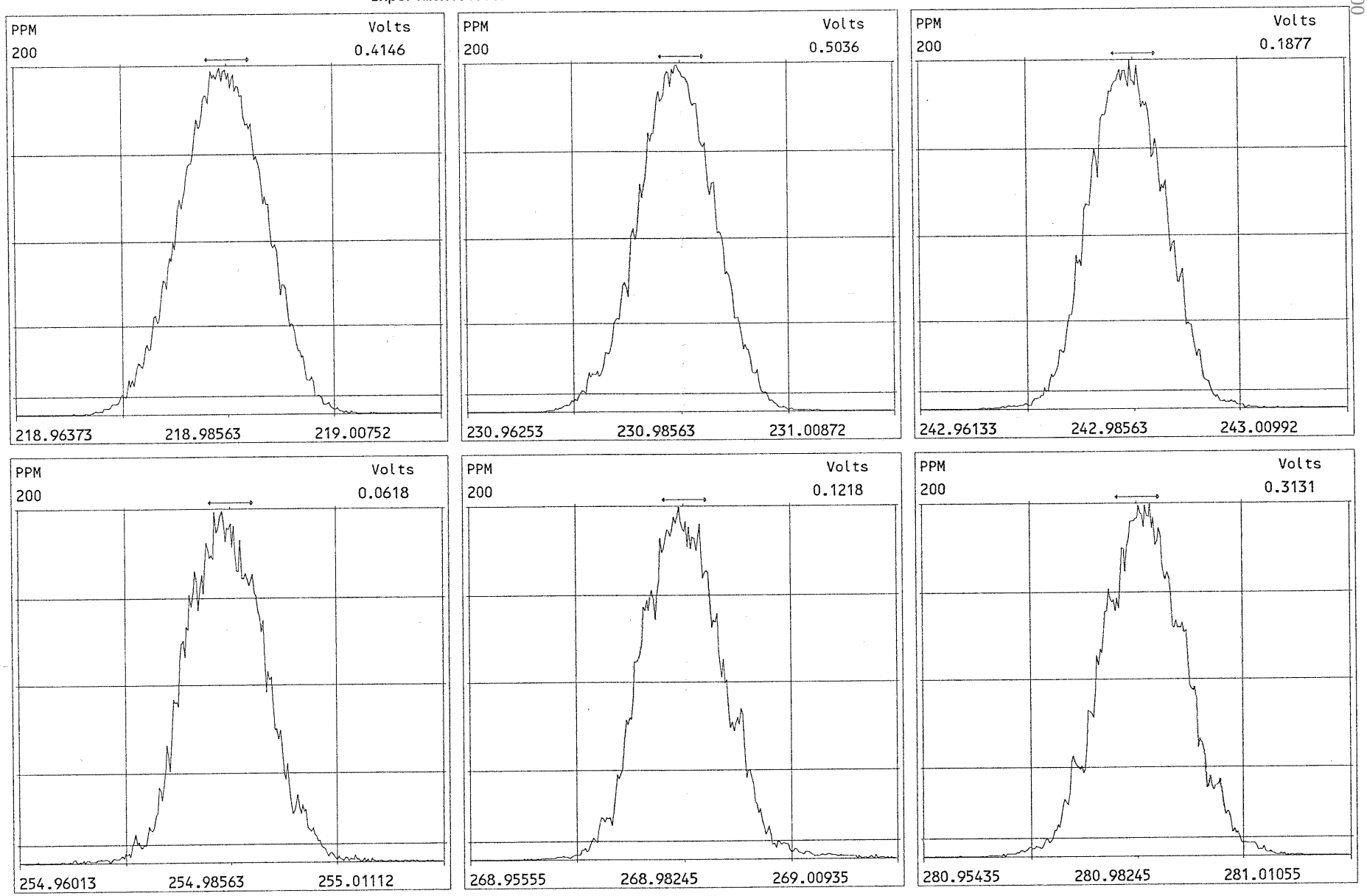




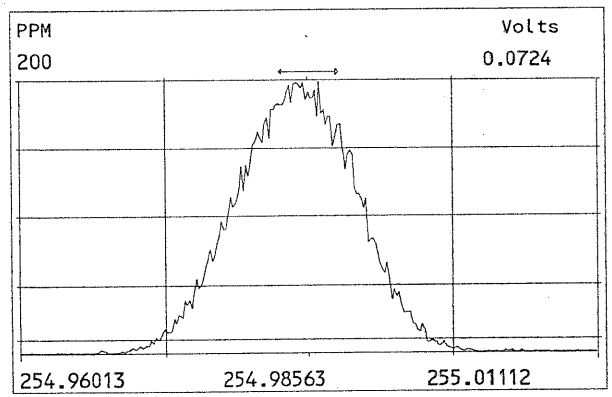


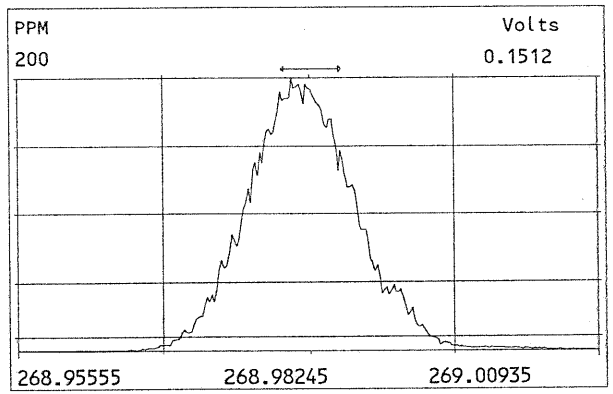


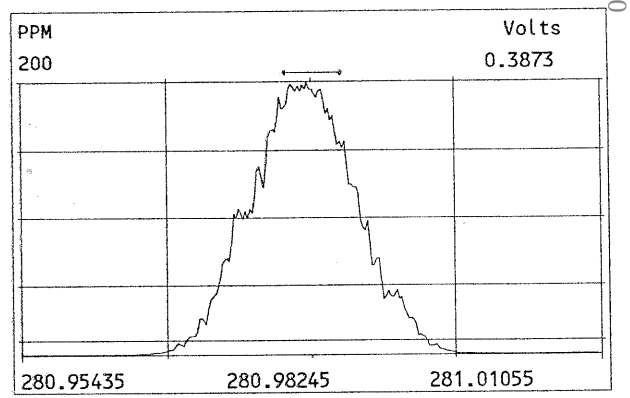
Peak Locate Examination:25-JUL-2019:11:08 File:25JUL19Z
Experiment:1668PCB Function:2 Reference:PFK

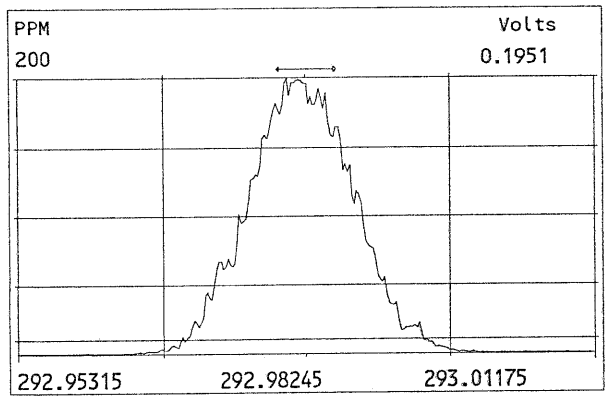


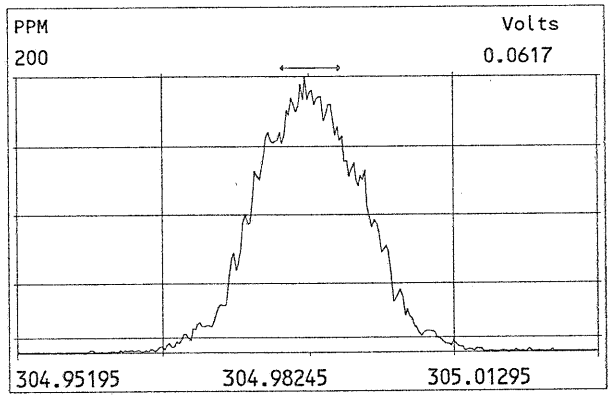
Peak Locate Examination:25-JUL-2019:11:08 File:25JUL19Z
Experiment:1668PCB Function:3 Reference:PFK

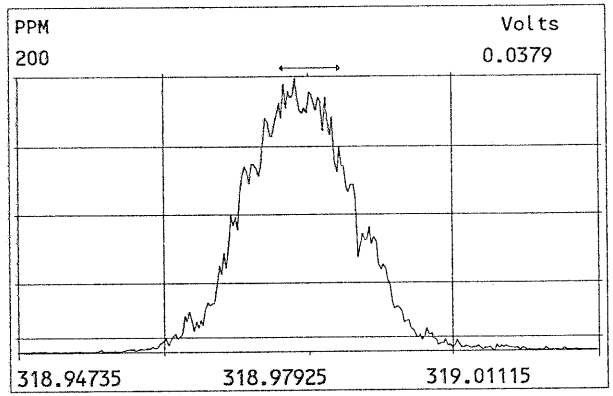


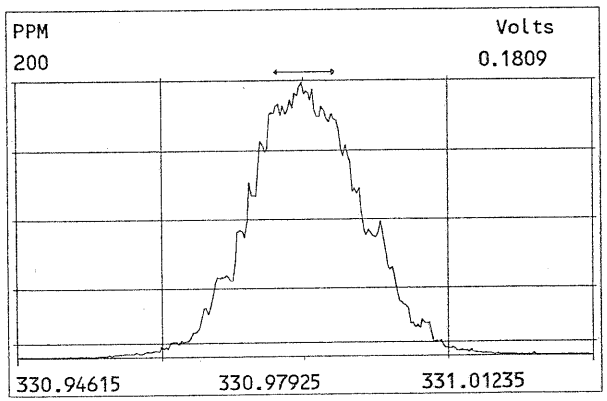


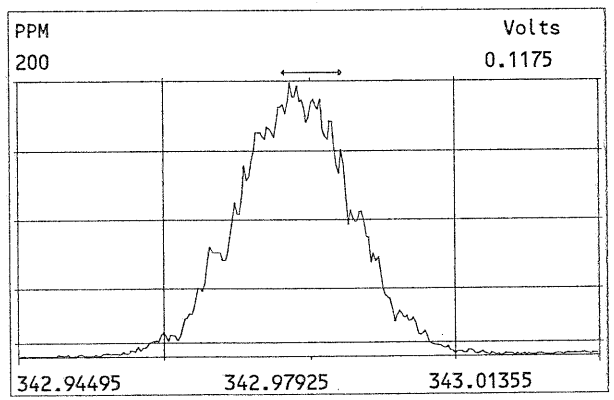




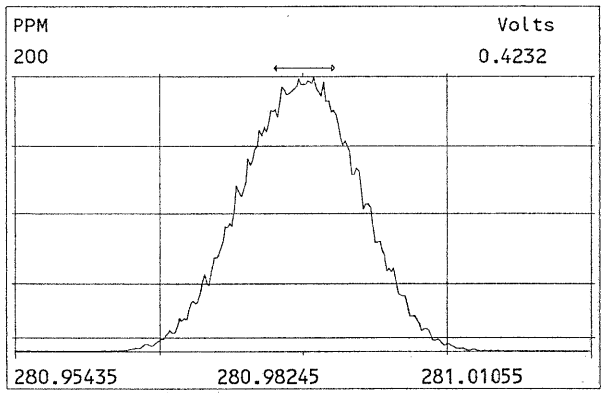


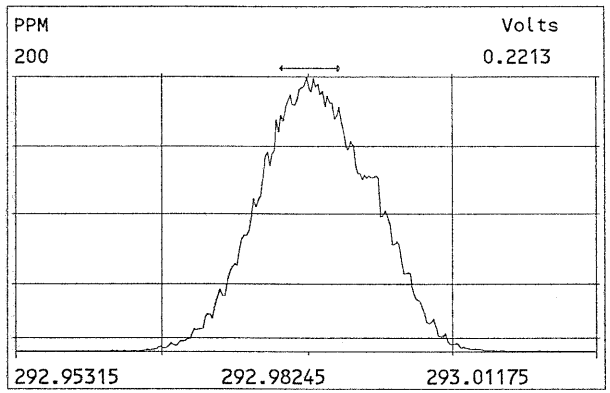


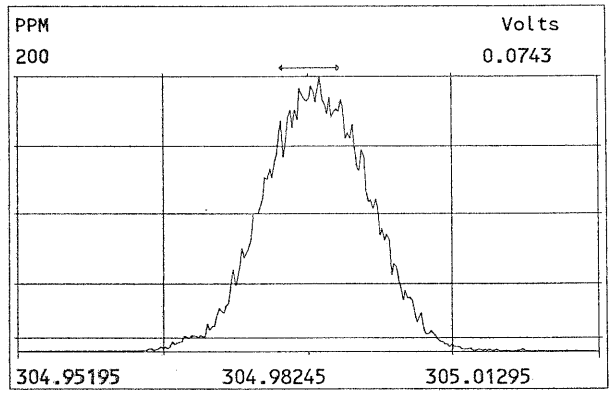


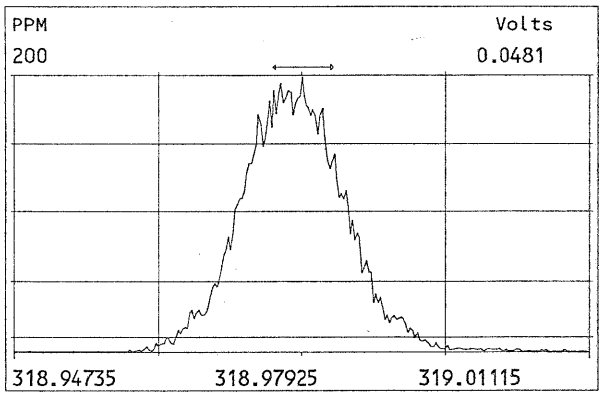


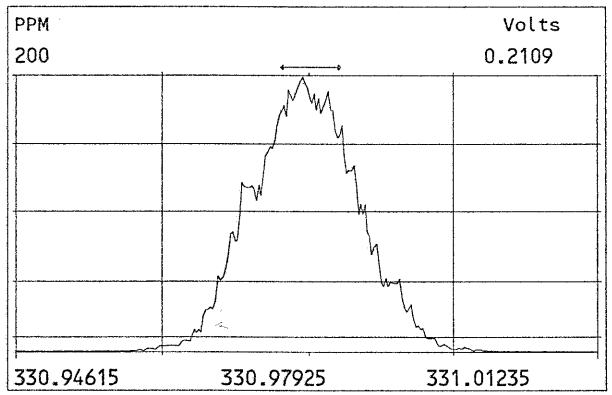
Peak Locate Examination:25-JUL-2019:11:09 File:25JUL19Z
Experiment:1668PCB Function:4 Reference:PFK

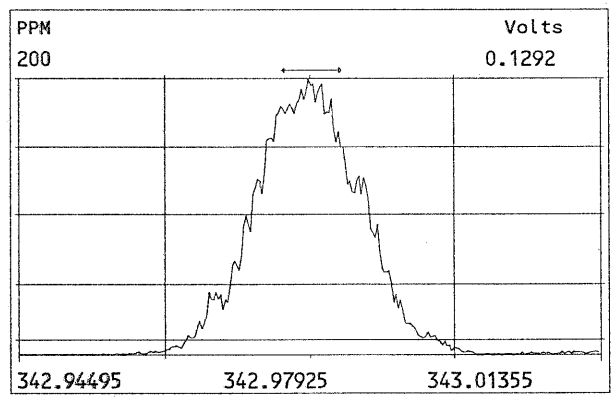


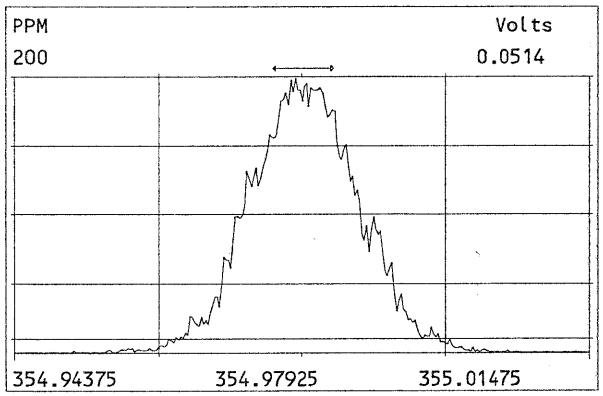


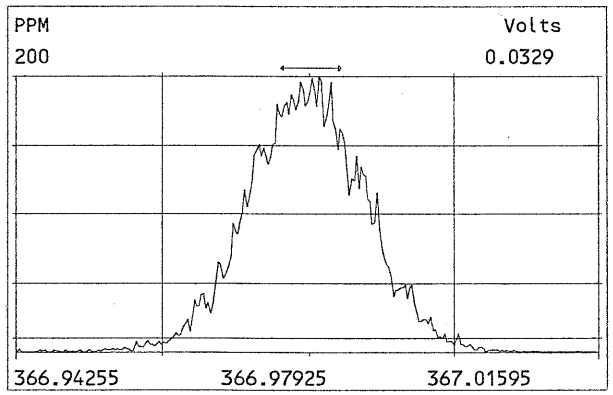


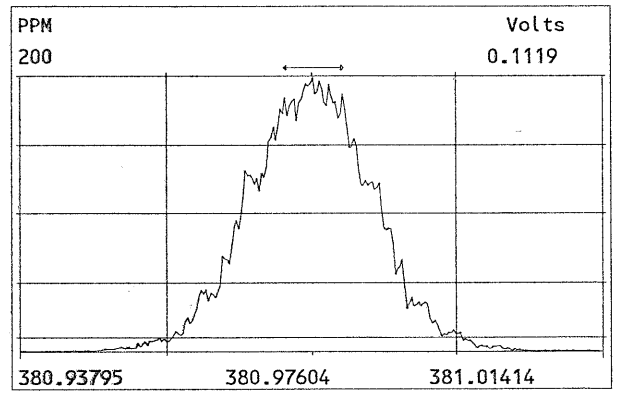




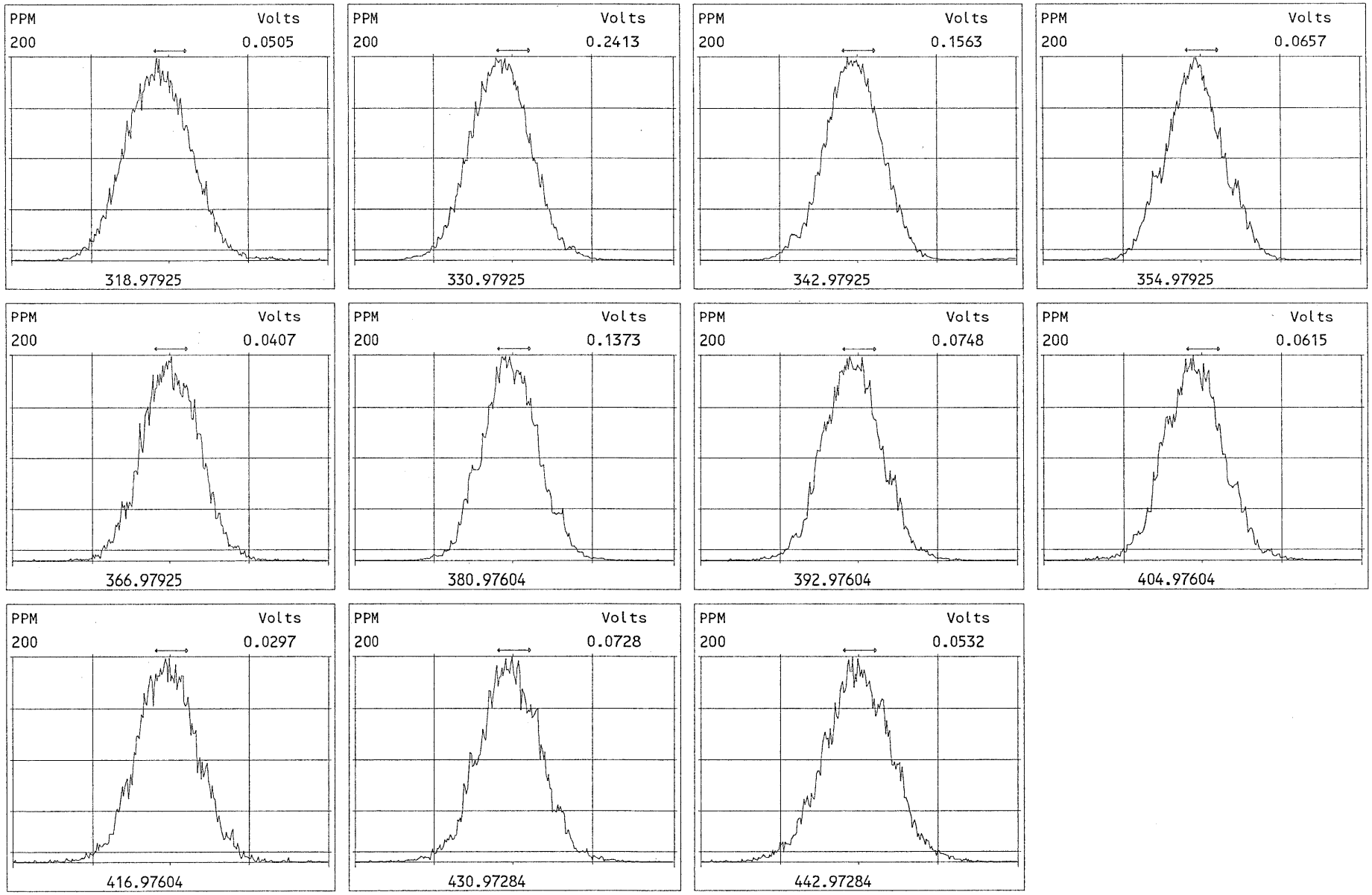




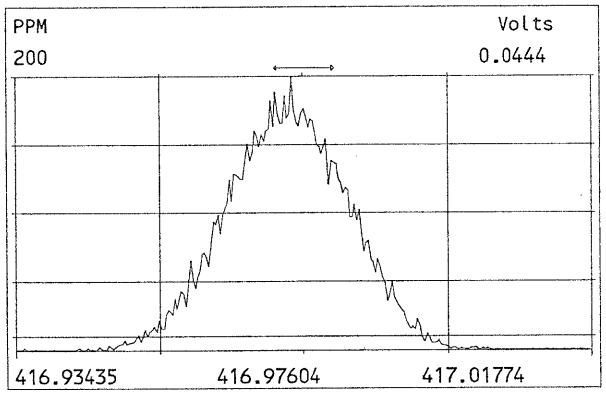


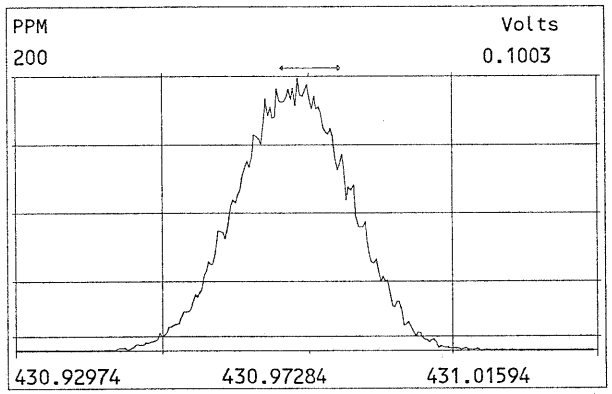


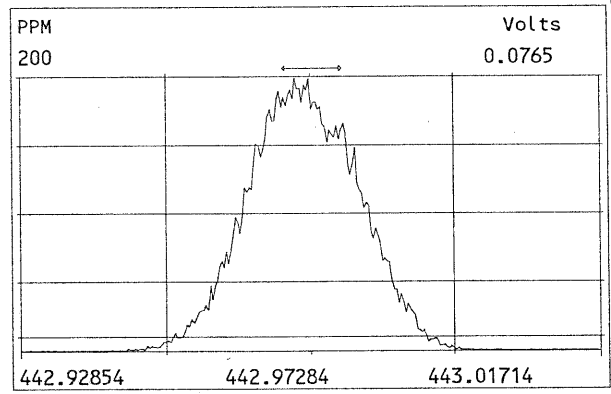
Peak Locate Examination:25-JUL-2019:11:09 File:25JUL19Z
Experiment:1668PCB Function:5 Reference:PFK

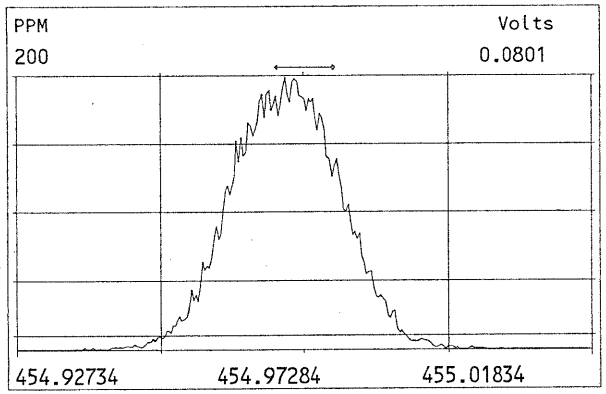


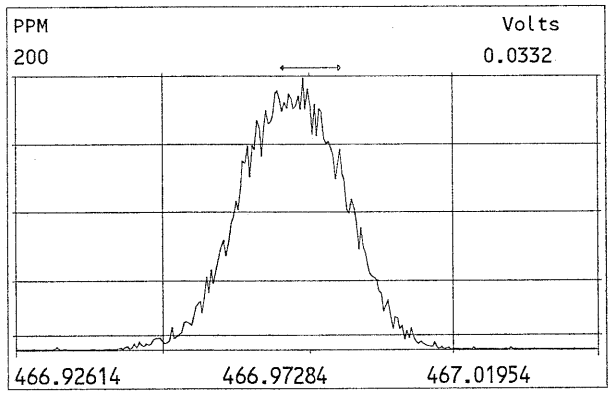
Peak Locate Examination:25-JUL-2019:11:09 File:25JUL19Z
Experiment:1668PCB Function:6 Reference:PFK

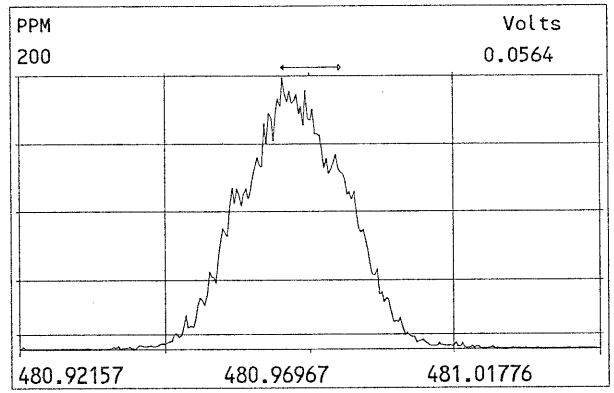


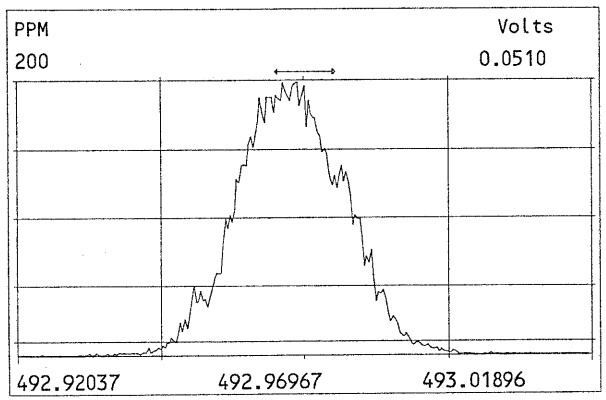


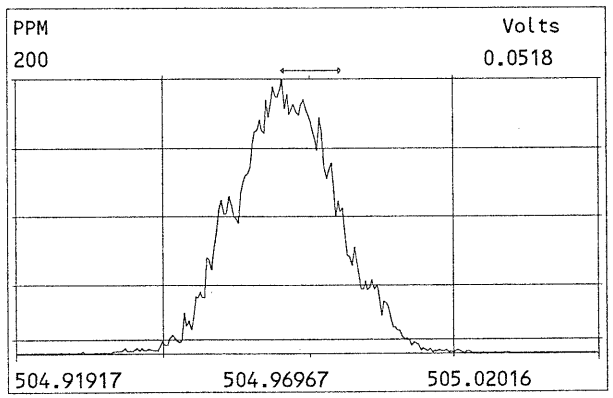


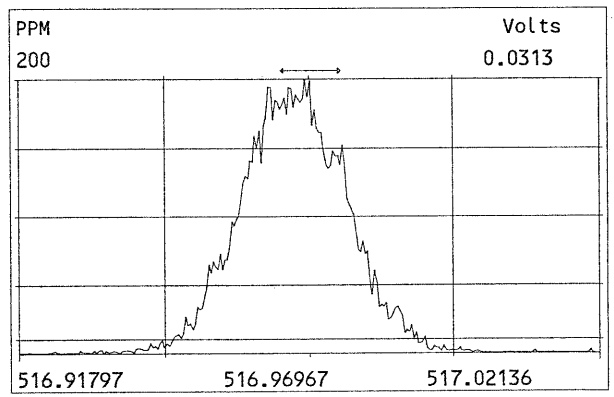




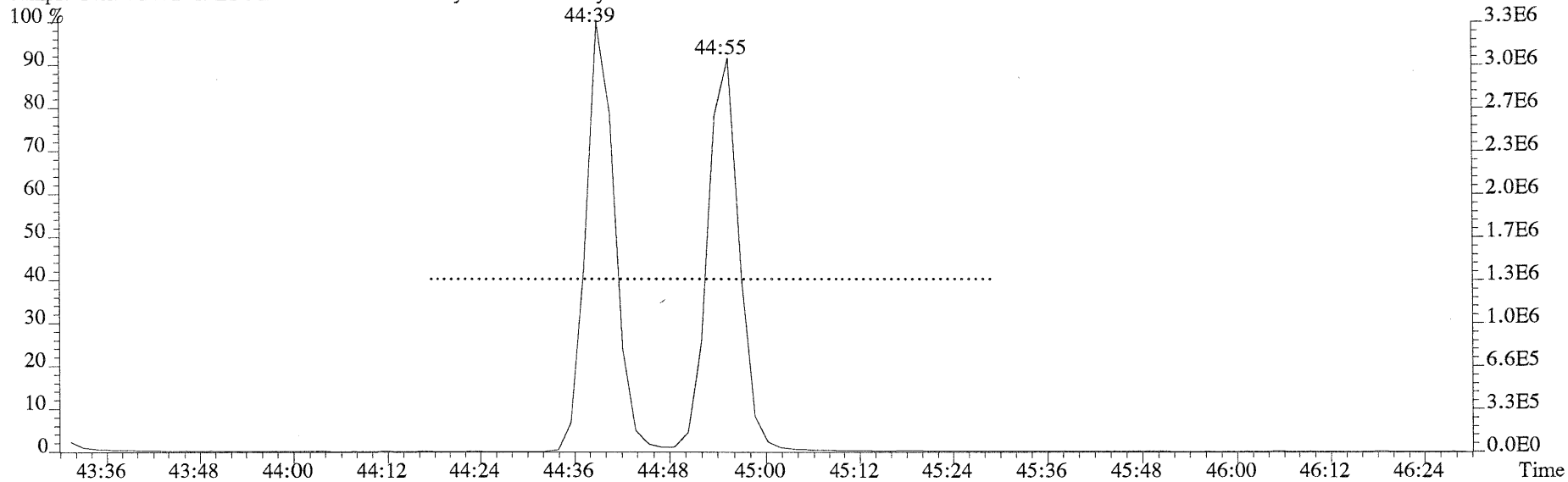








File:25JUL19Z #1-405 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



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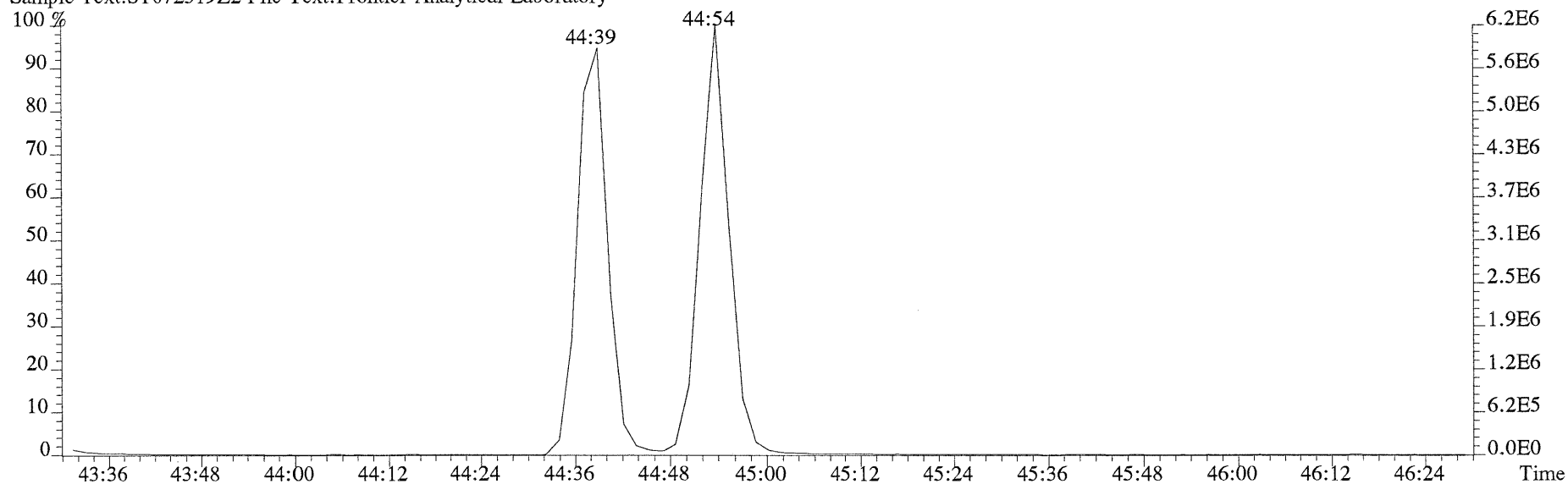
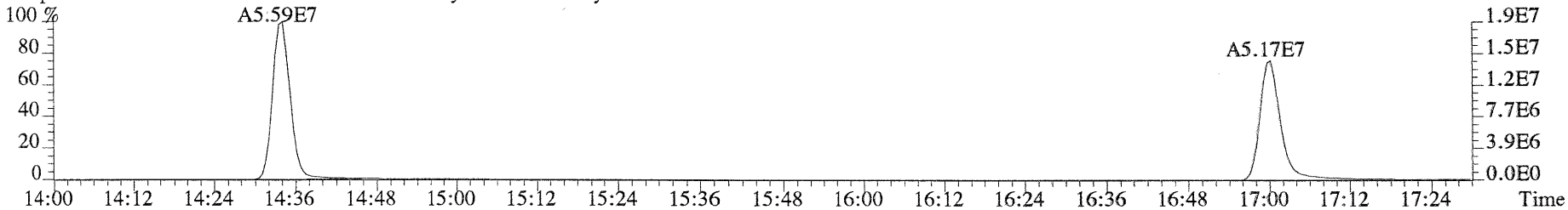


File:25JUL19Z #1-784 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



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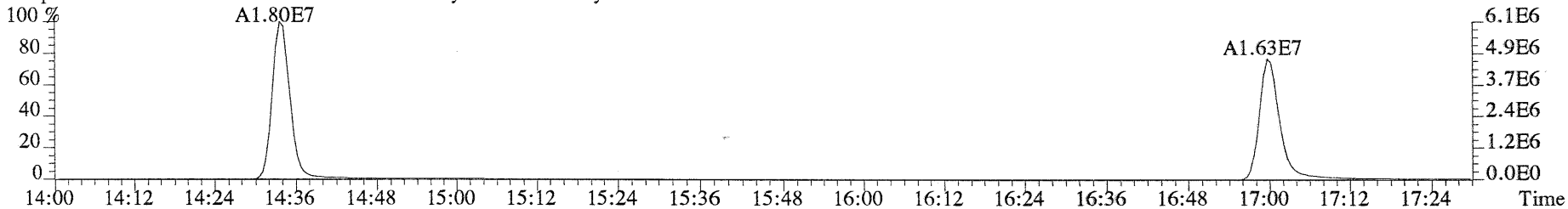
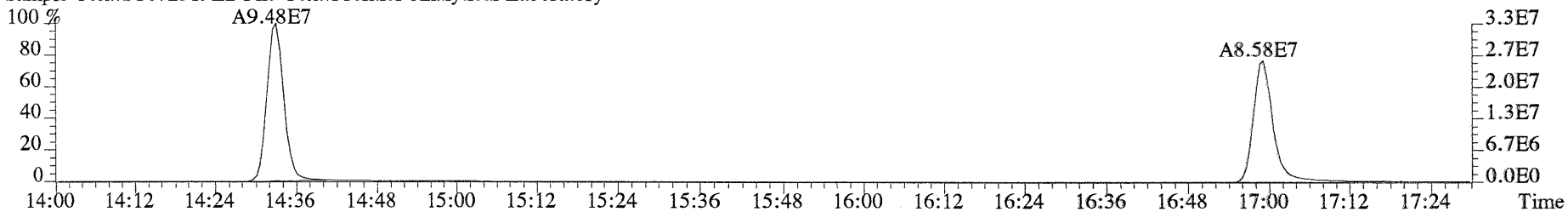
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



File:25JUL19Z #1-784 Acq:26-JUL-2019 01:47:50 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:ST072519Z2 File Text:Frontier Analytical Laboratory



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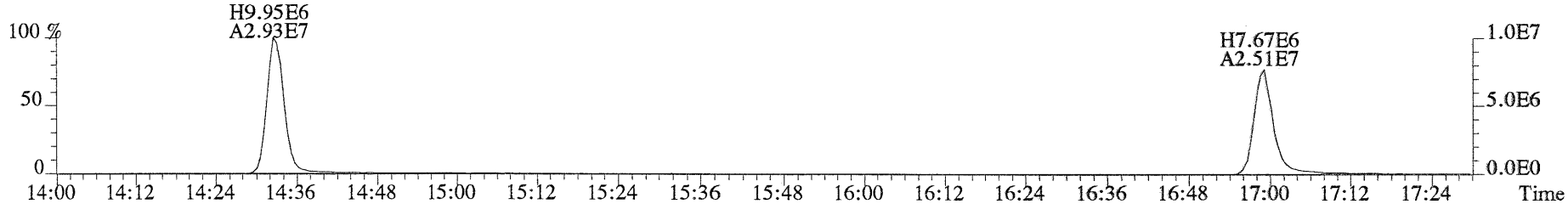
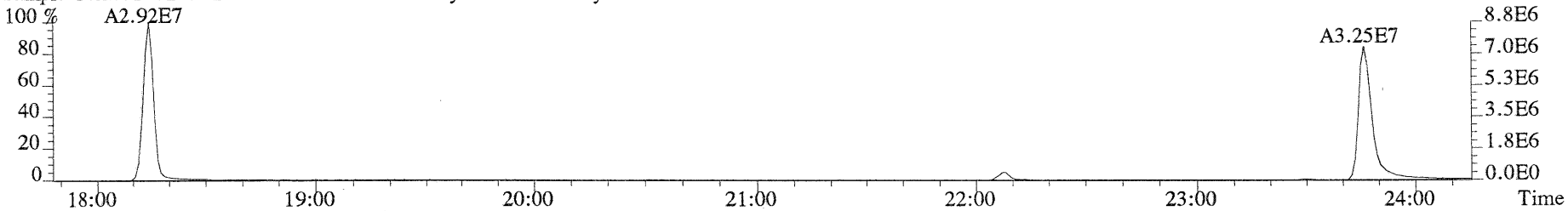
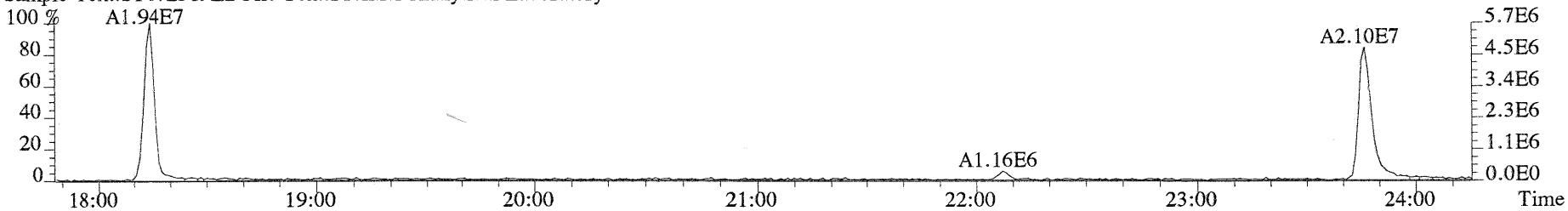
202.0766 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



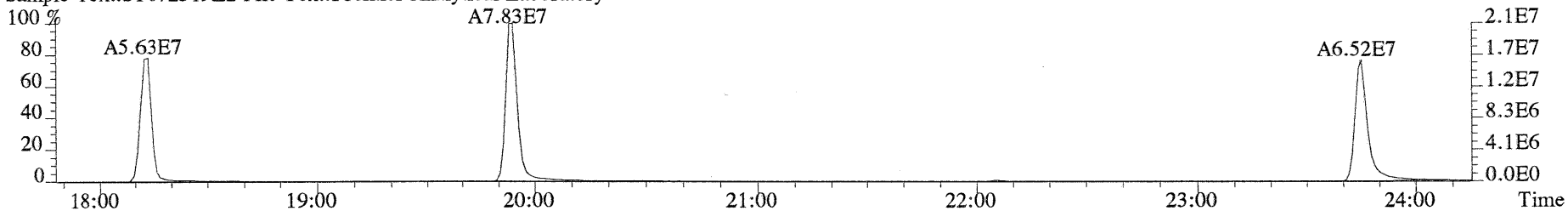
File:25JUL19Z #1-520 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



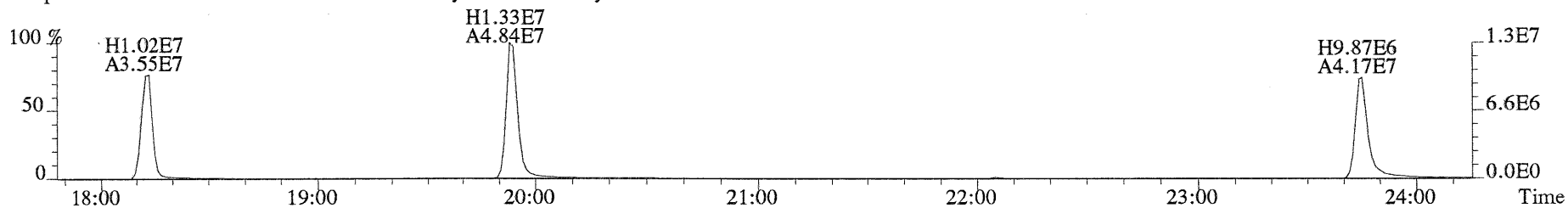
File:25JUL19Z #1-520 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



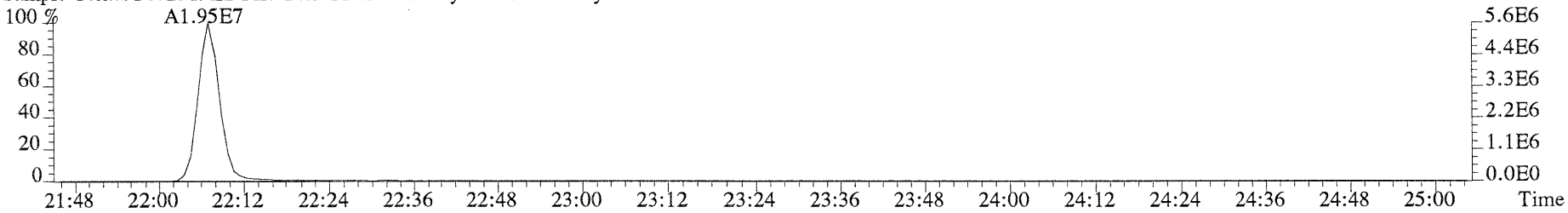
File:25JUL19Z #1-520 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



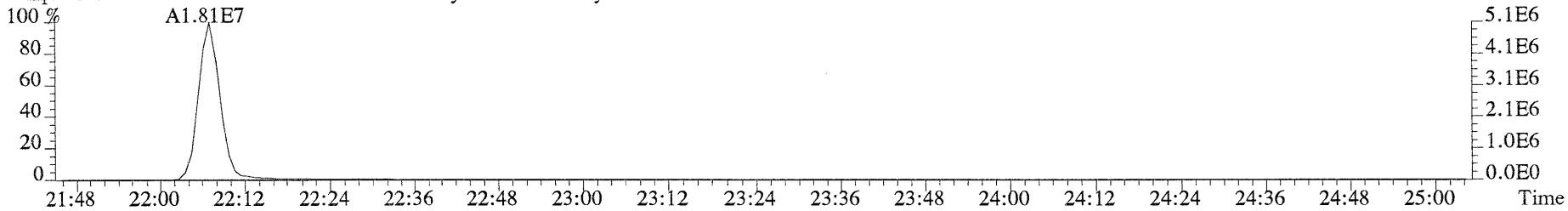
File:25JUL19Z #1-520 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



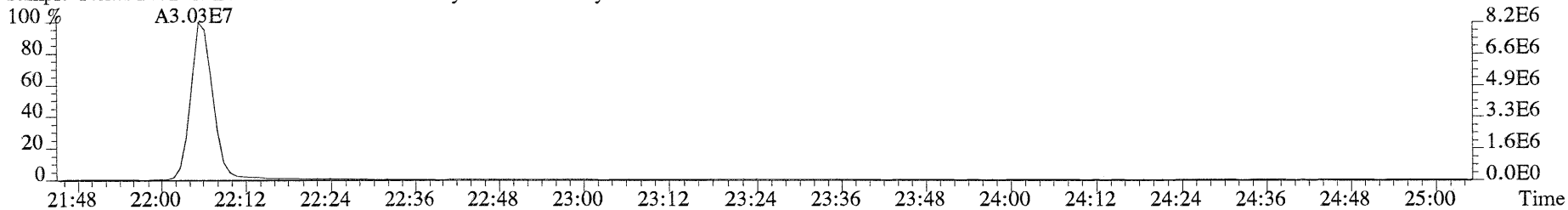
File:25JUL19Z #1-520 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



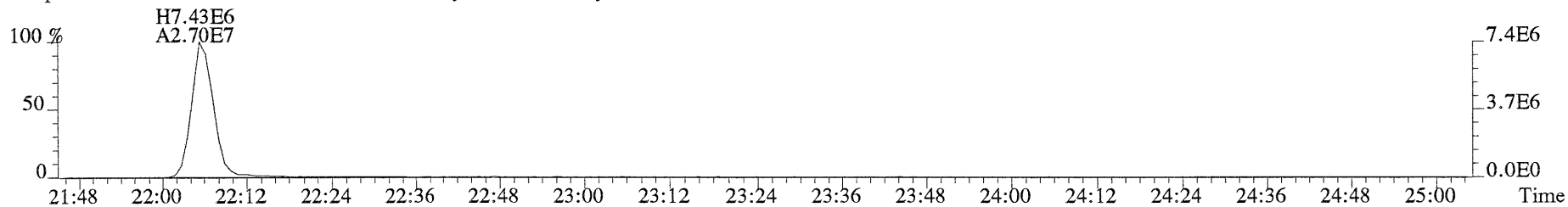
File:25JUL19Z #1-520 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



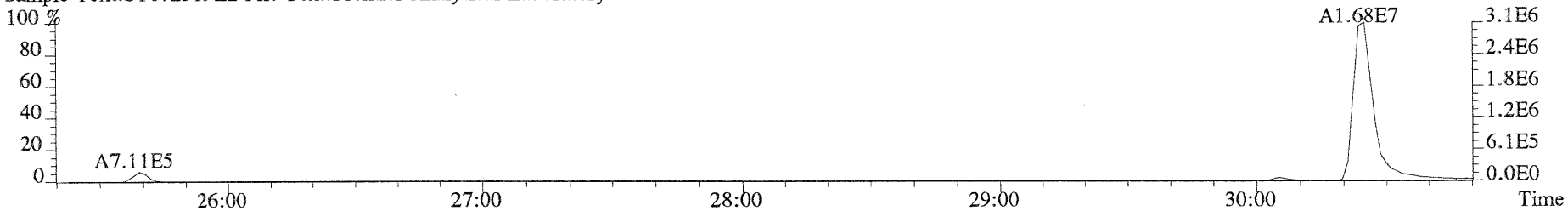
File:25JUL19Z #1-520 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



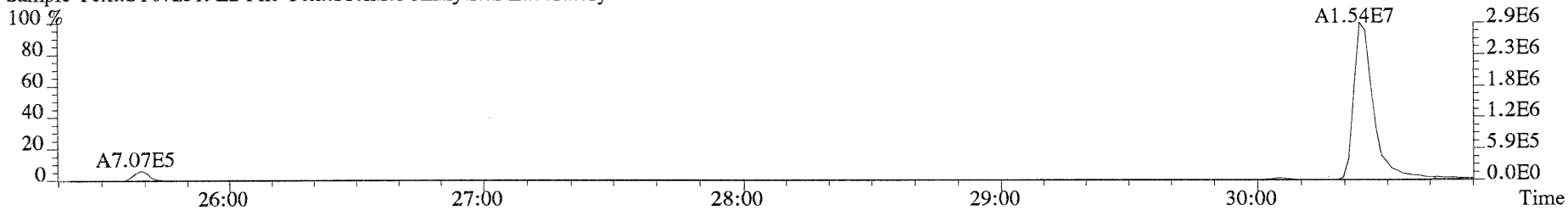
File:25JUL19Z #1-520 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



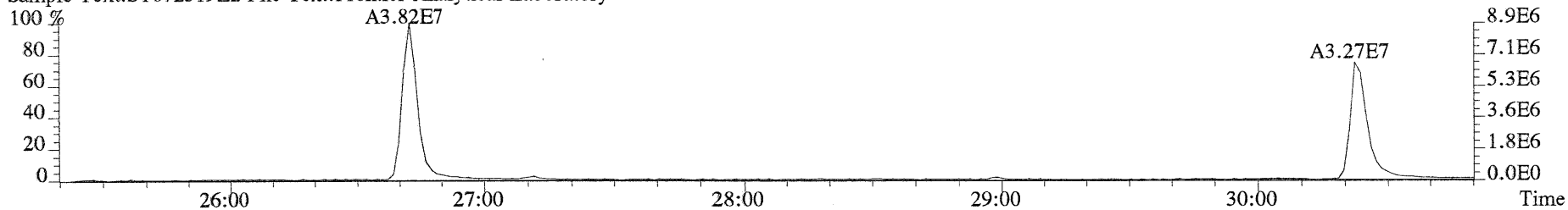
File:25JUL19Z #1-401 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



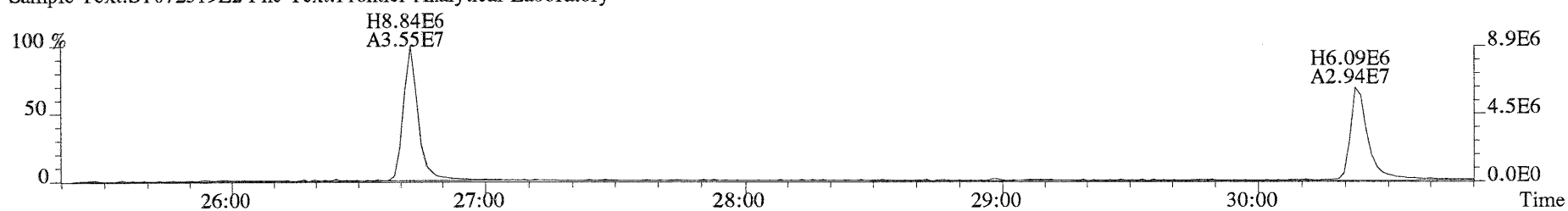
File:25JUL19Z #1-401 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



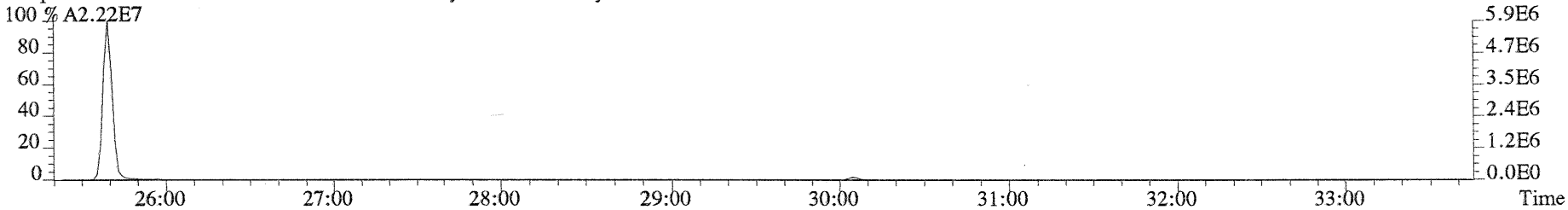
File:25JUL19Z #1-401 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



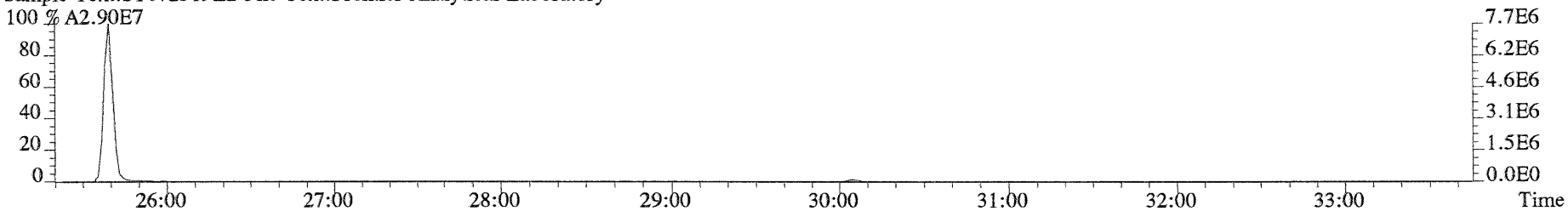
File:25JUL19Z #1-401 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



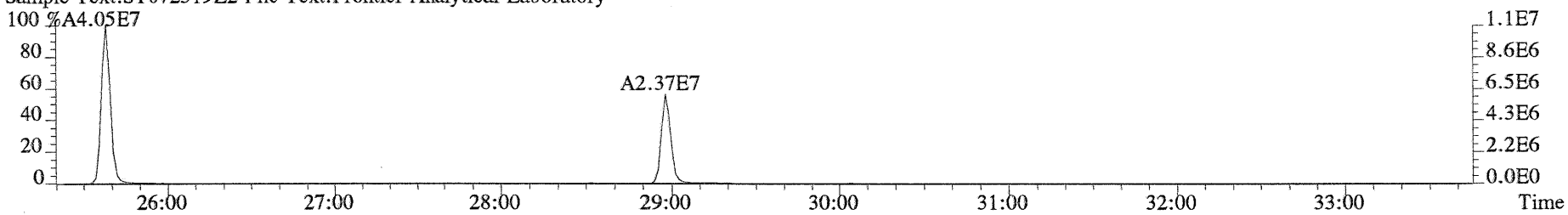
File:25JUL19Z #1-401 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



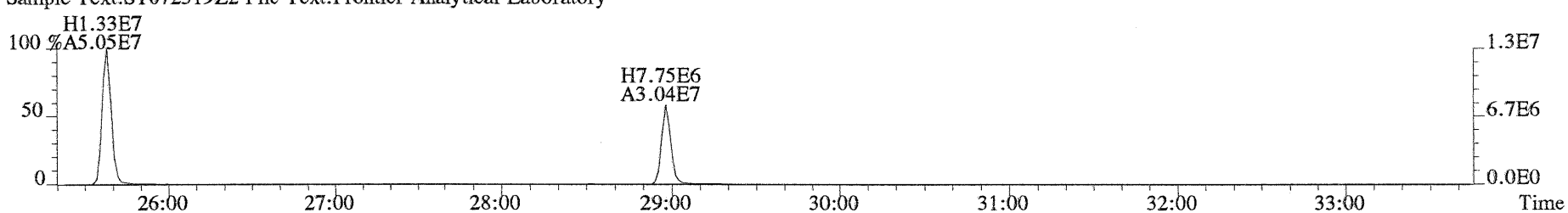
File:25JUL19Z #1-401 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



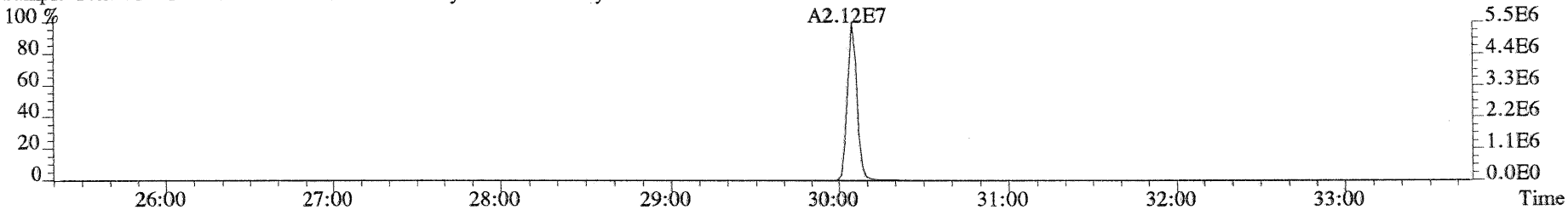
File:25JUL19Z #1-401 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



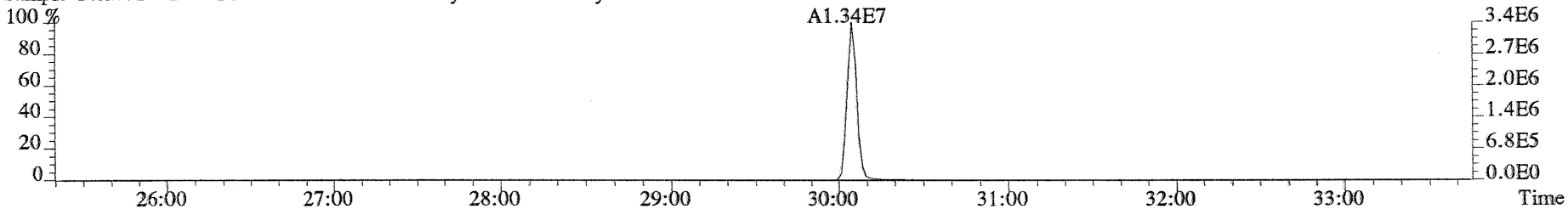
File:25JUL19Z #1-401 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



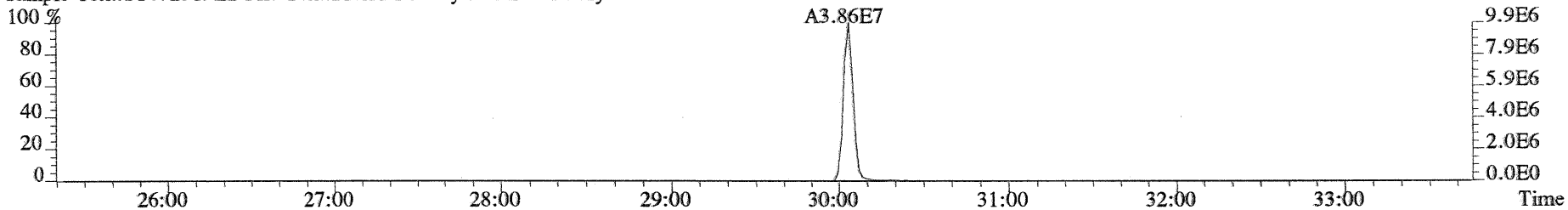
File:25JUL19Z #1-401 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



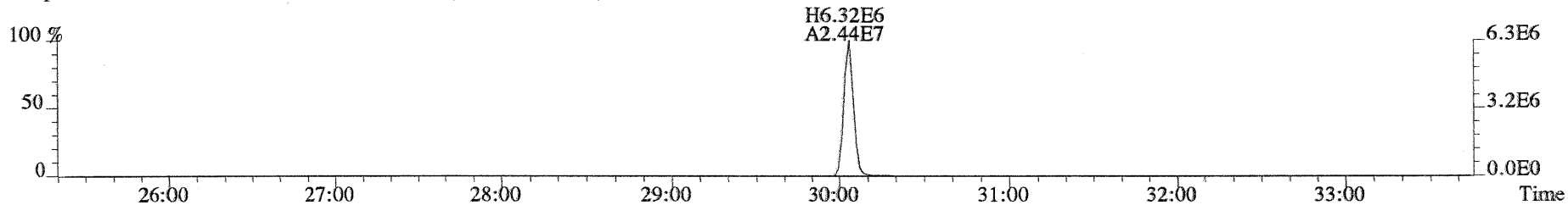
File:25JUL19Z #1-401 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



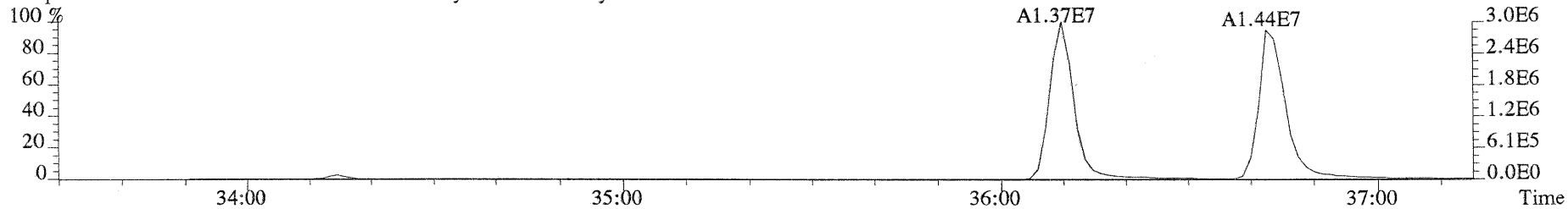
File:25JUL19Z #1-401 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



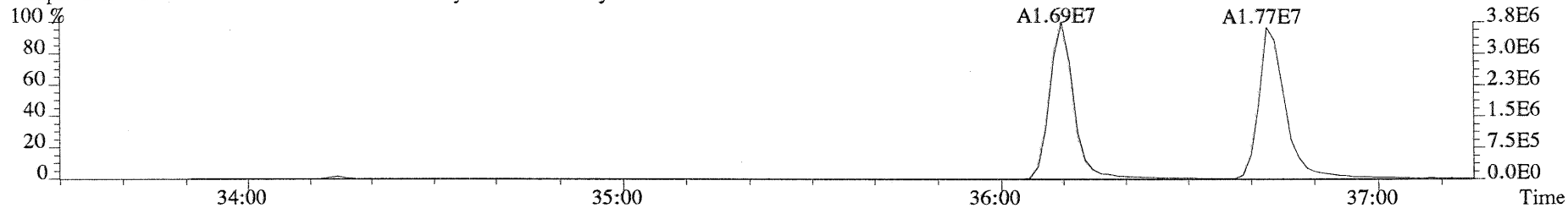
File:25JUL19Z #1-401 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



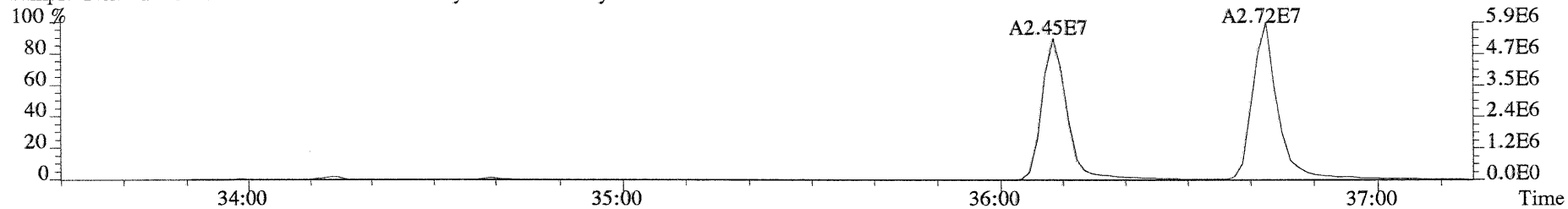
File:25JUL19Z #1-181 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



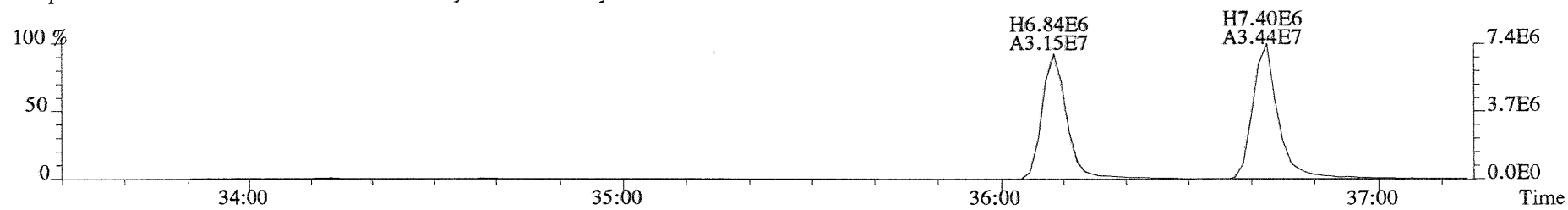
File:25JUL19Z #1-181 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



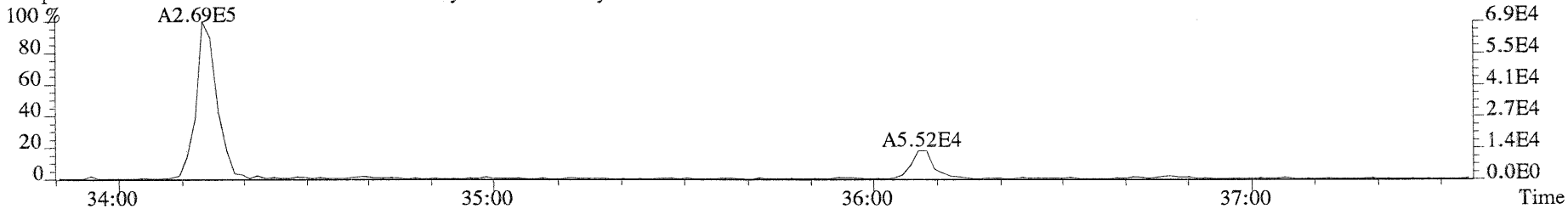
File:25JUL19Z #1-181 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



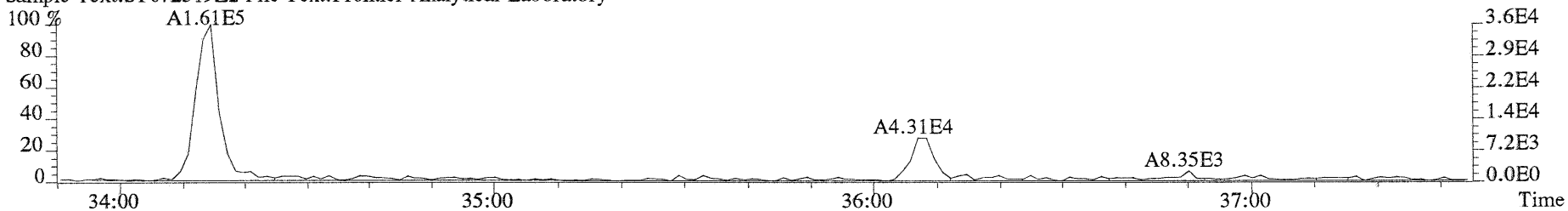
File:25JUL19Z #1-181 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



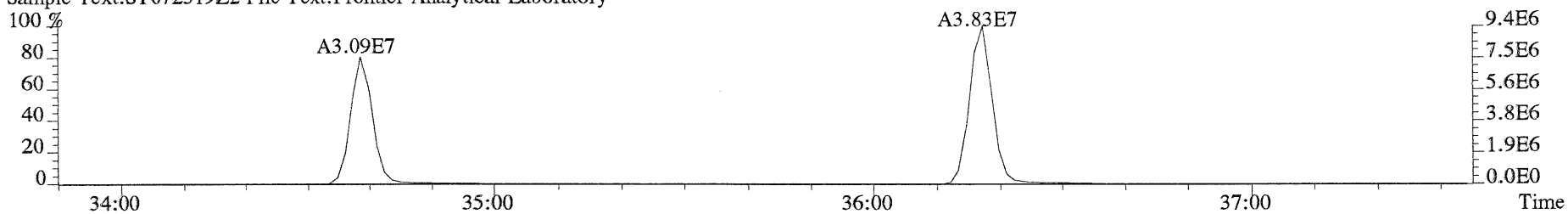
File:25JUL19Z #1-181 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



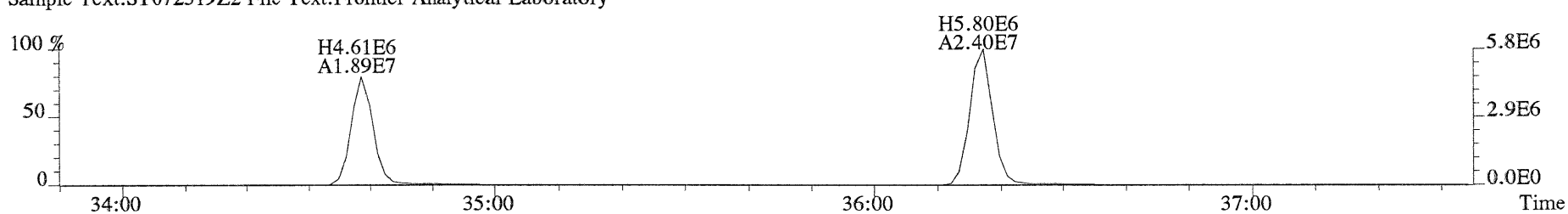
File:25JUL19Z #1-181 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



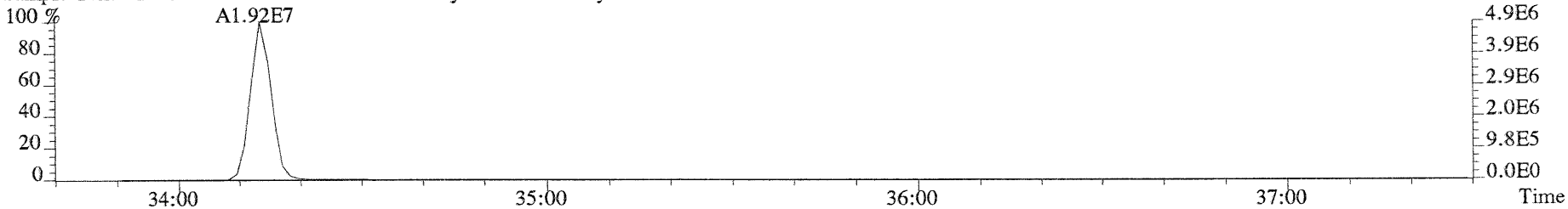
File:25JUL19Z #1-181 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



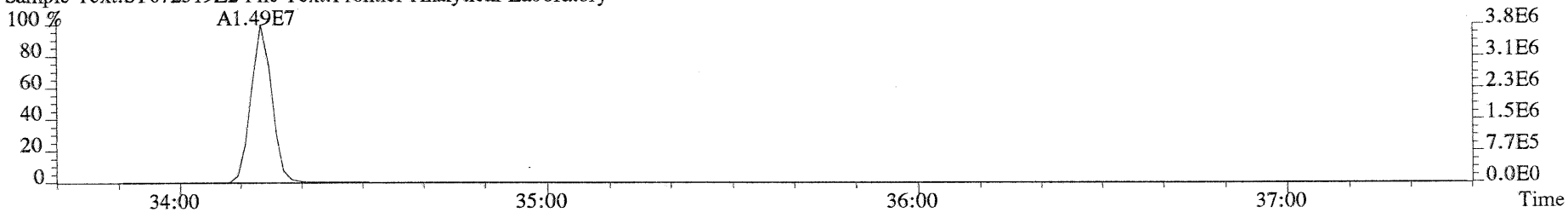
File:25JUL19Z #1-181 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



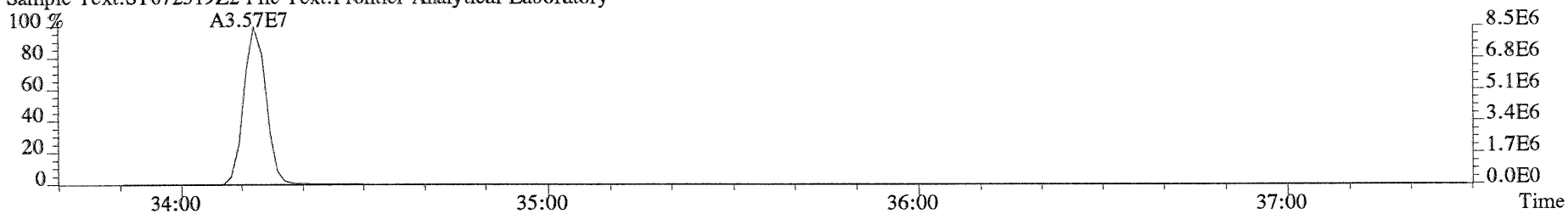
File:25JUL19Z #1-181 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



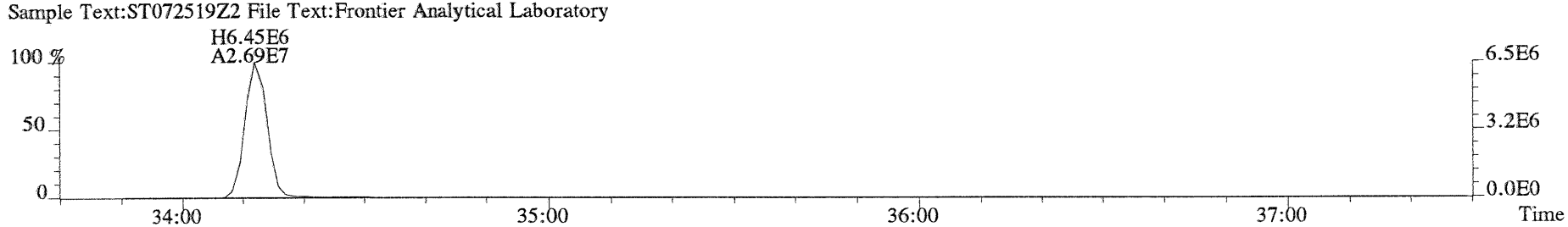
File:25JUL19Z #1-181 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



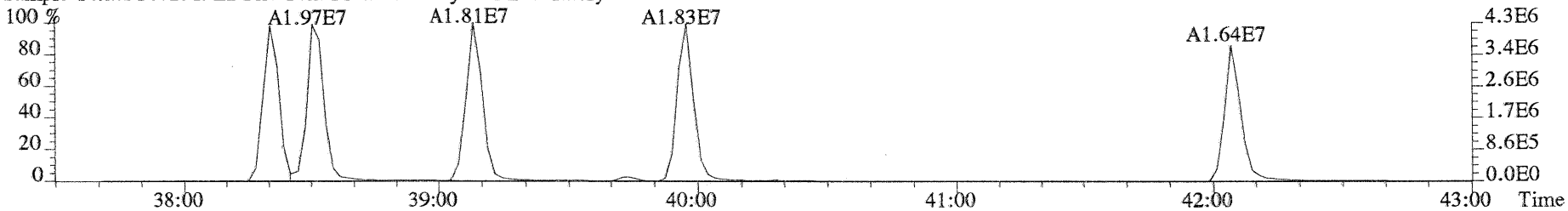
File:25JUL19Z #1-181 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



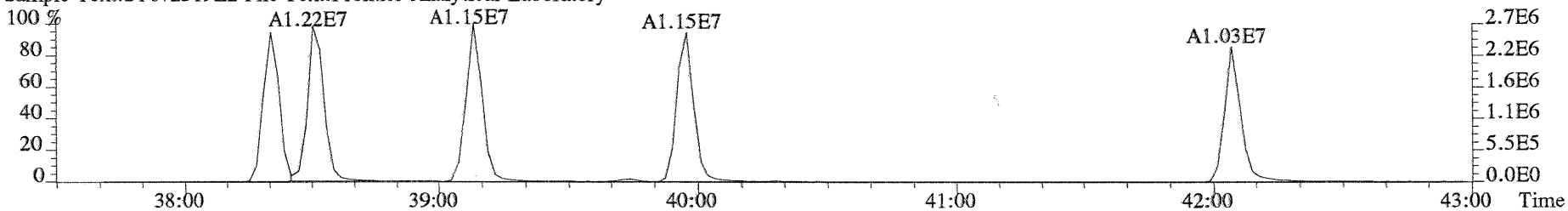
File:25JUL19Z #1-181 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



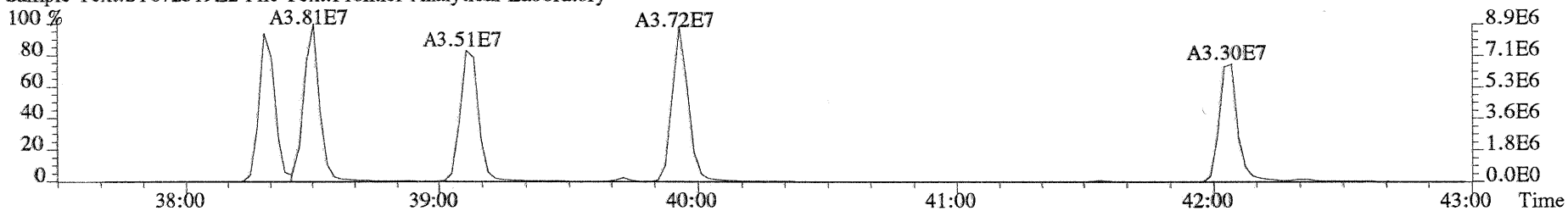
File:25JUL19Z #1-405 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



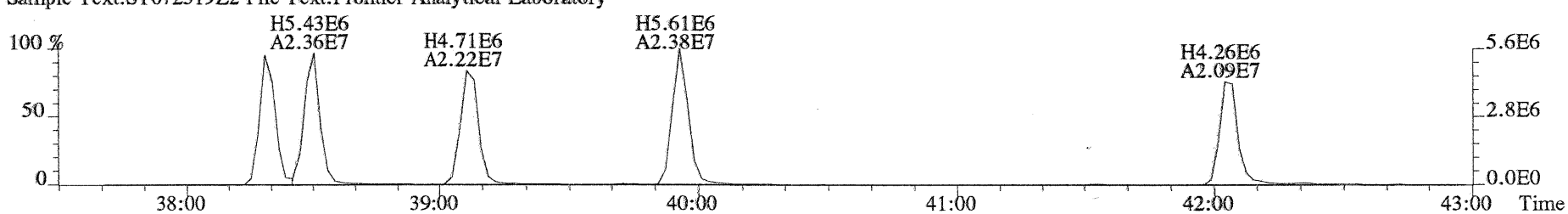
File:25JUL19Z #1-405 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



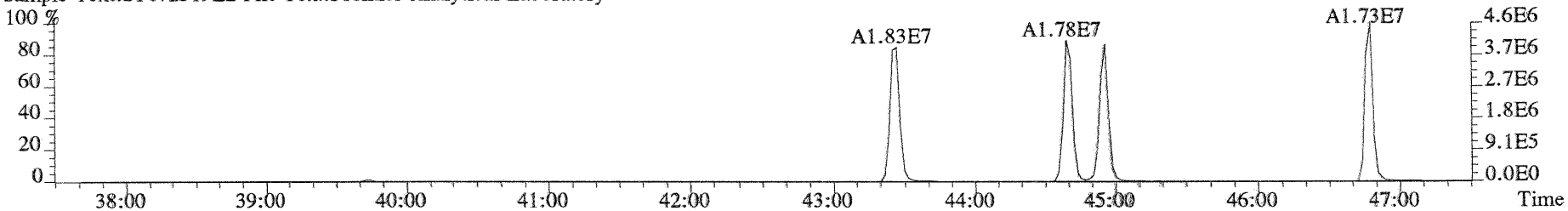
File:25JUL19Z #1-405 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



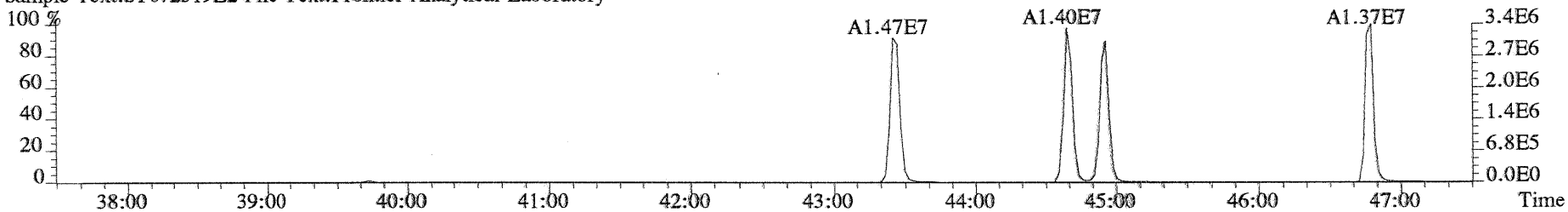
File:25JUL19Z #1-405 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



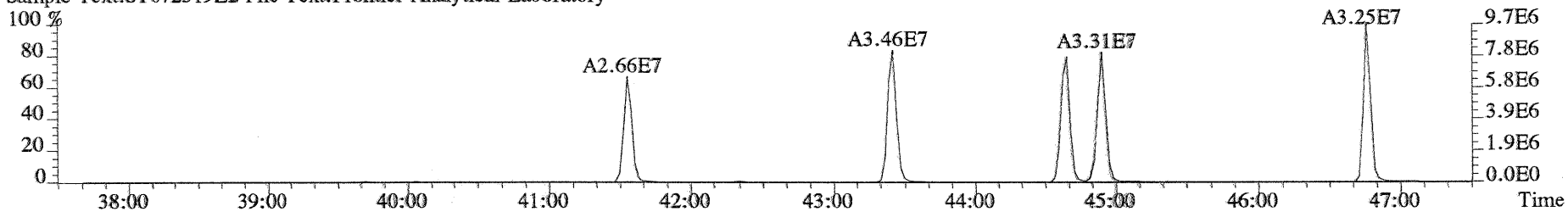
File:25JUL19Z #1-405 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



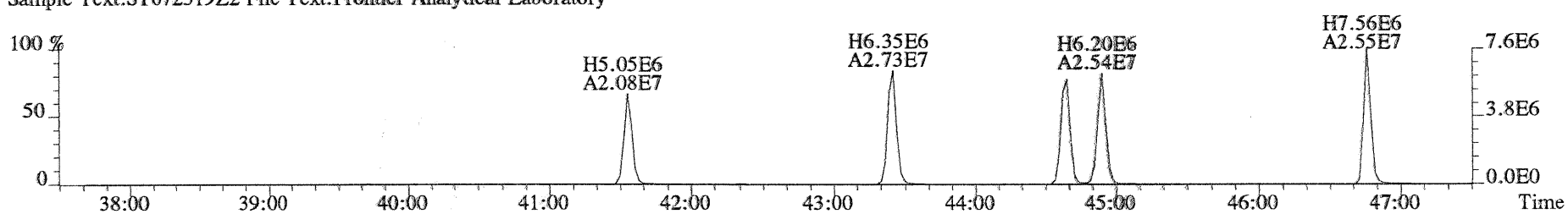
File:25JUL19Z #1-405 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



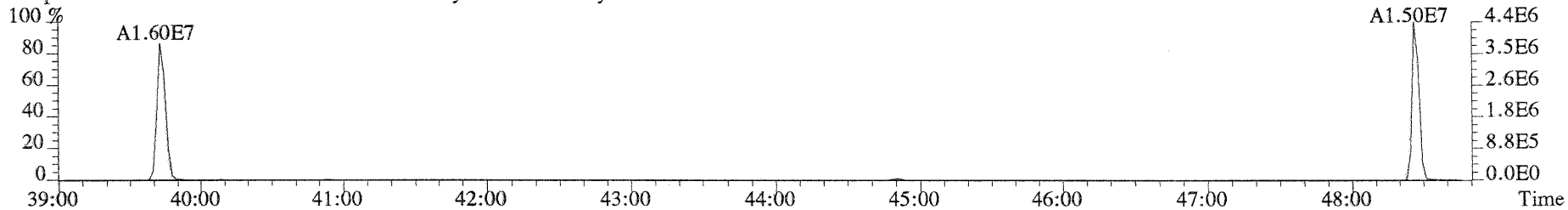
File:25JUL19Z #1-405 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



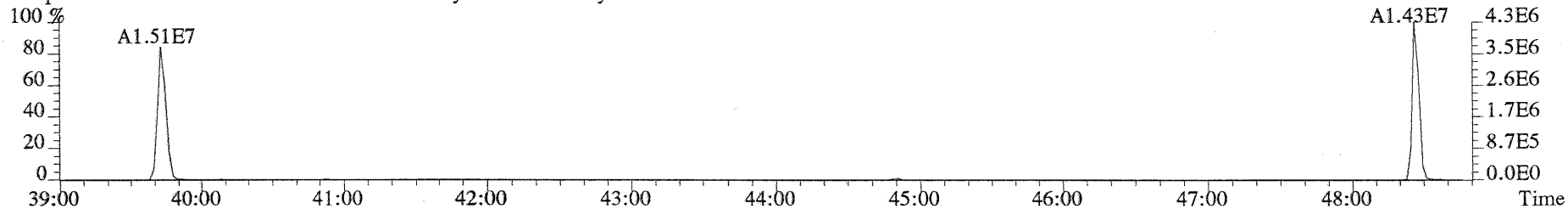
File:25JUL19Z #1-405 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



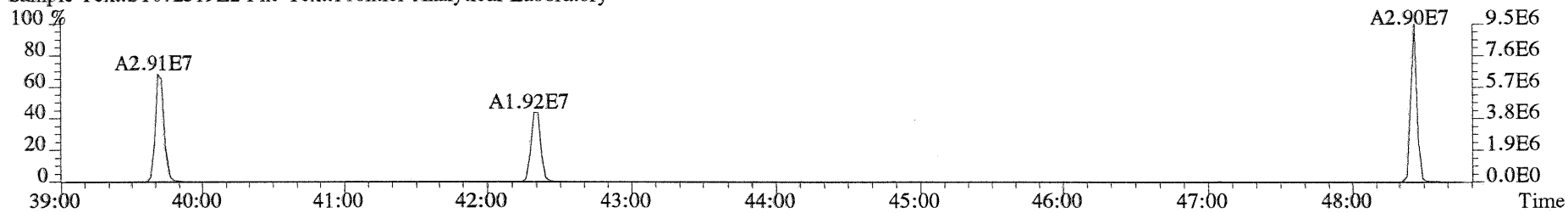
File:25JUL19Z #1-405 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



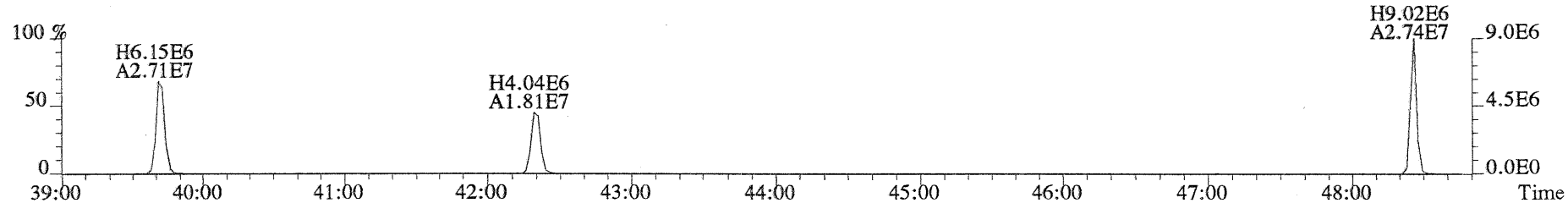
File:25JUL19Z #1-405 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



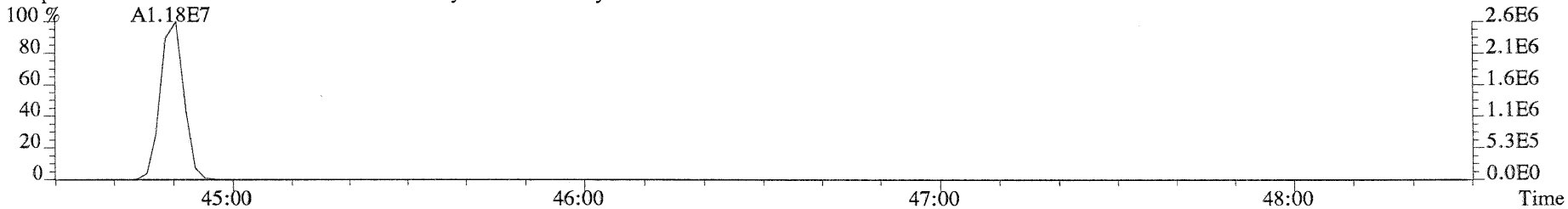
File:25JUL19Z #1-405 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



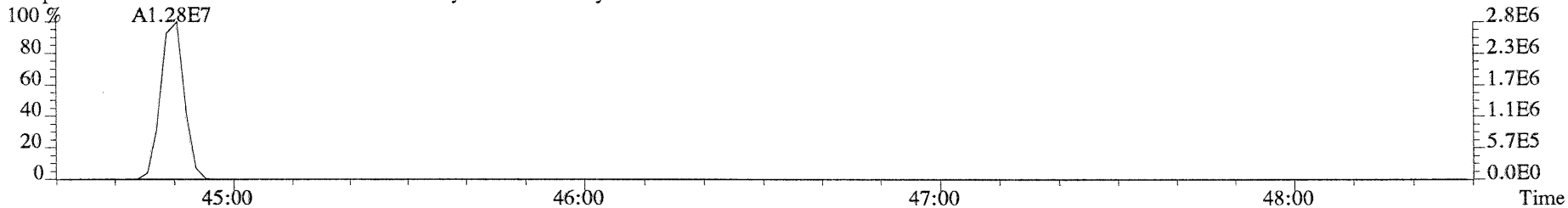
File:25JUL19Z #1-405 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



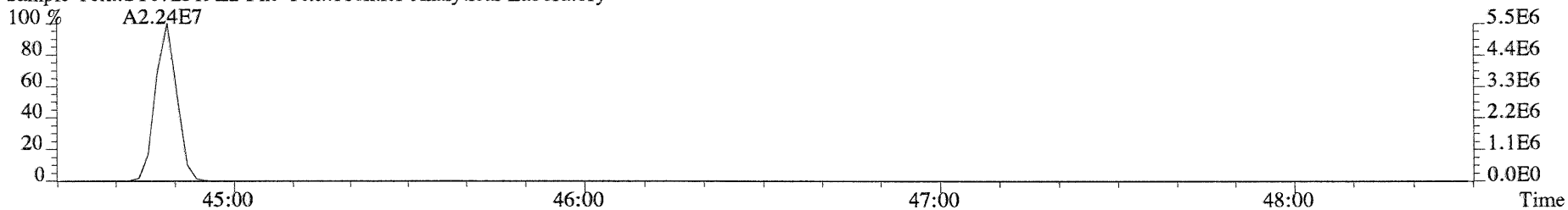
File:25JUL19Z #1-405 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



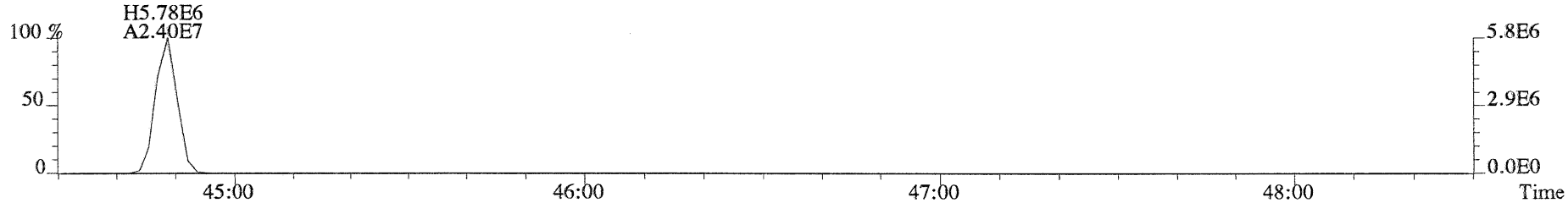
File:25JUL19Z #1-405 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



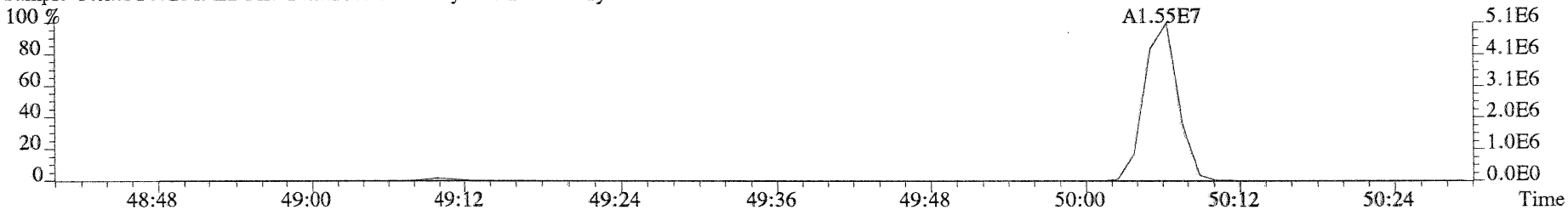
File:25JUL19Z #1-405 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



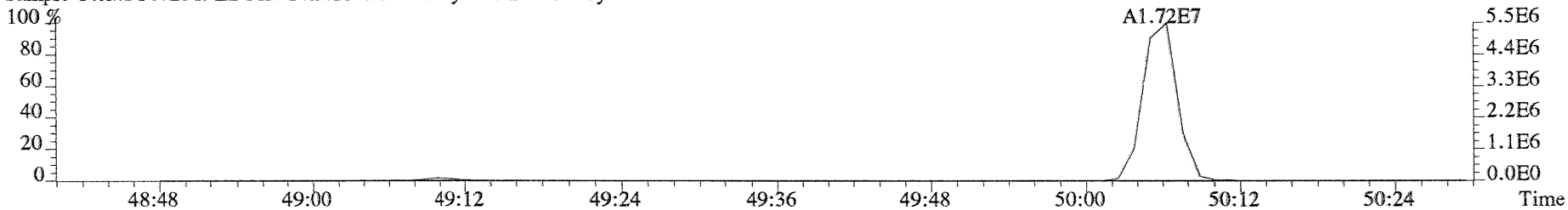
File:25JUL19Z #1-405 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



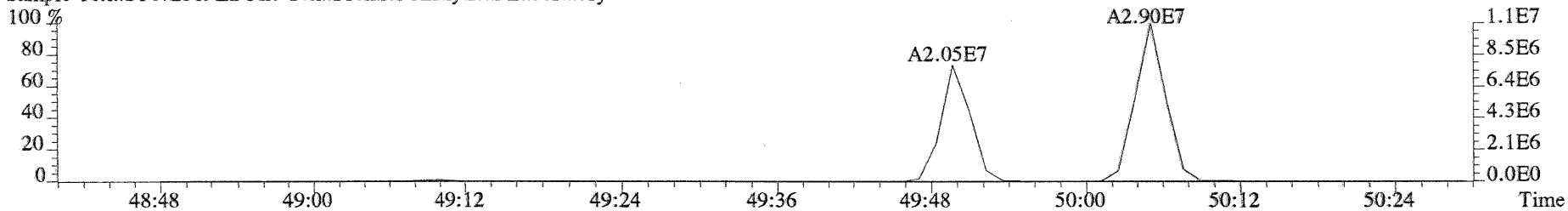
File:25JUL19Z #1-315 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



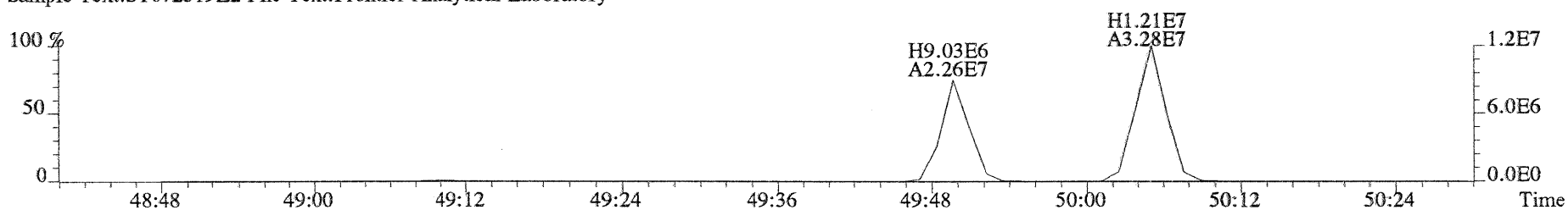
File:25JUL19Z #1-315 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



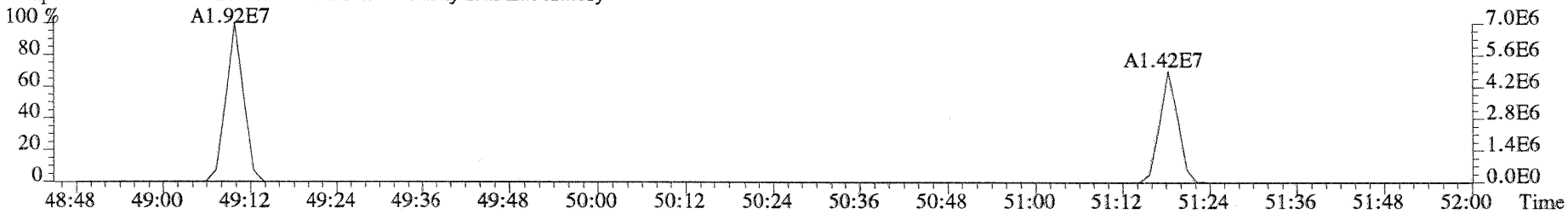
File:25JUL19Z #1-315 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



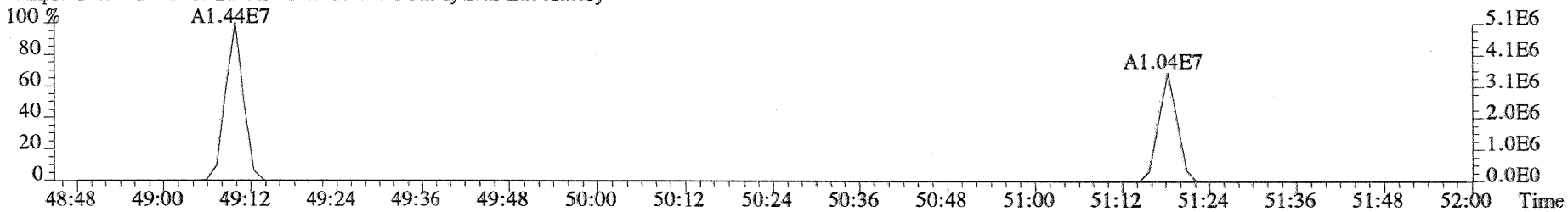
File:25JUL19Z #1-315 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



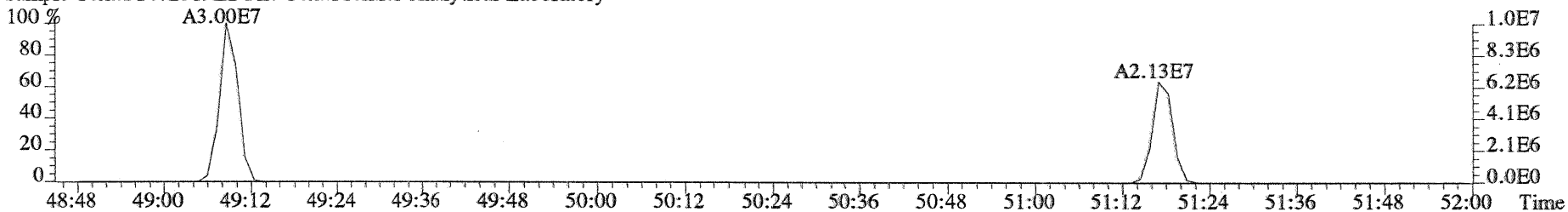
File:25JUL19Z #1-315 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



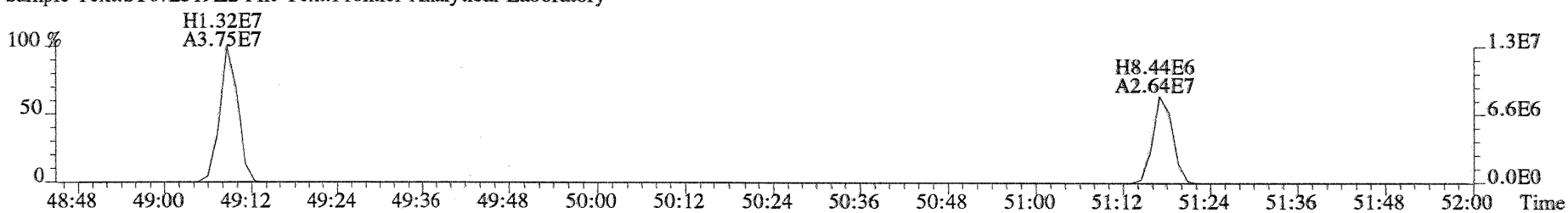
File:25JUL19Z #1-315 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



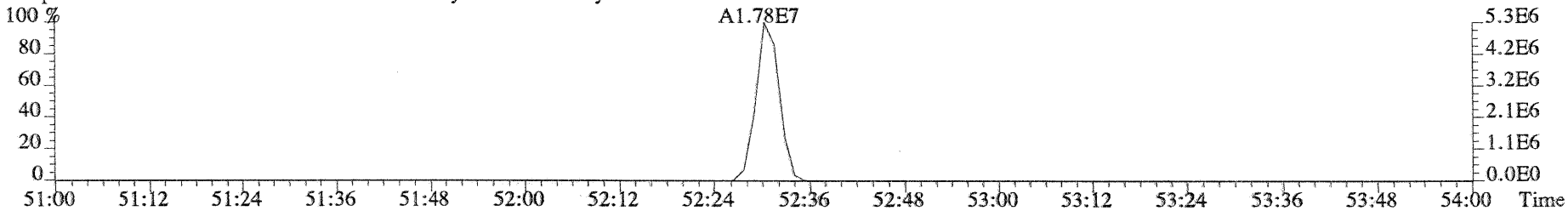
File:25JUL19Z #1-315 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



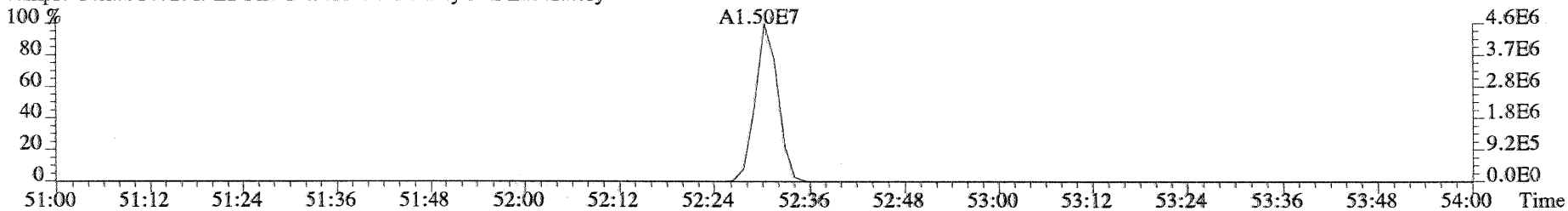
File:25JUL19Z #1-315 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



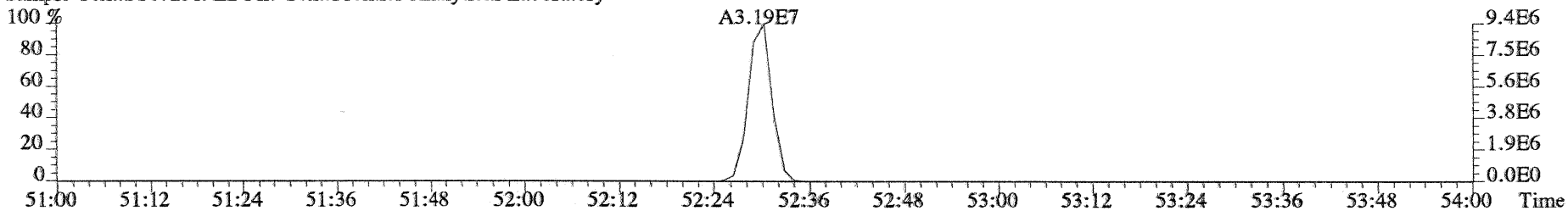
File:25JUL19Z #1-315 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



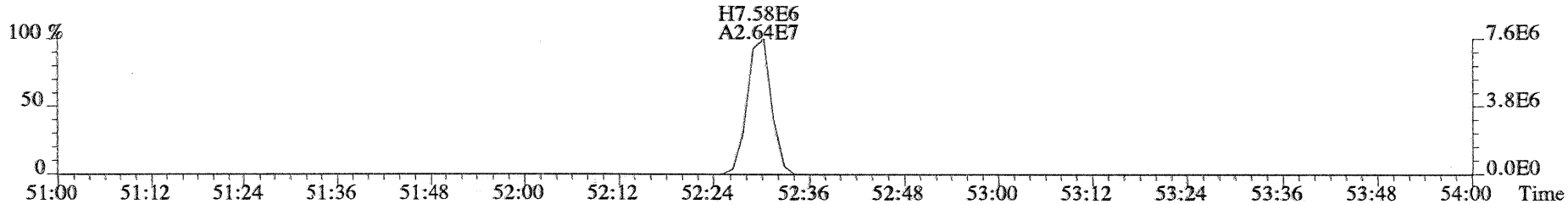
File:25JUL19Z #1-315 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory



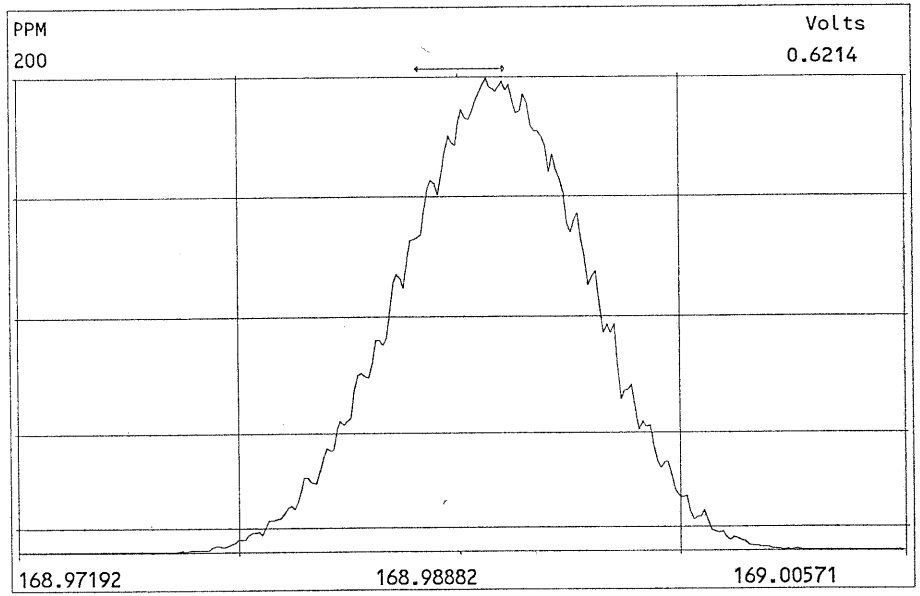
File:25JUL19Z #1-315 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory

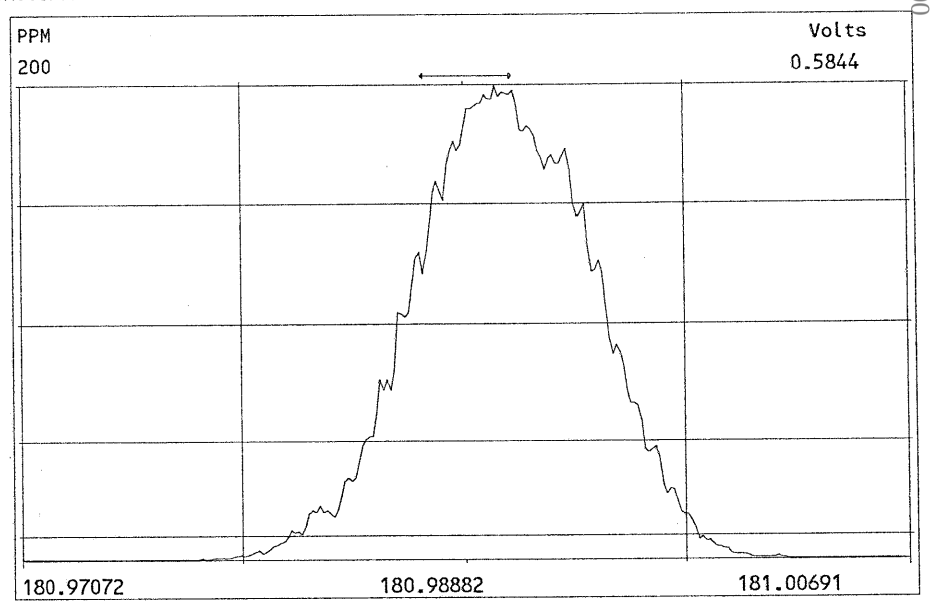


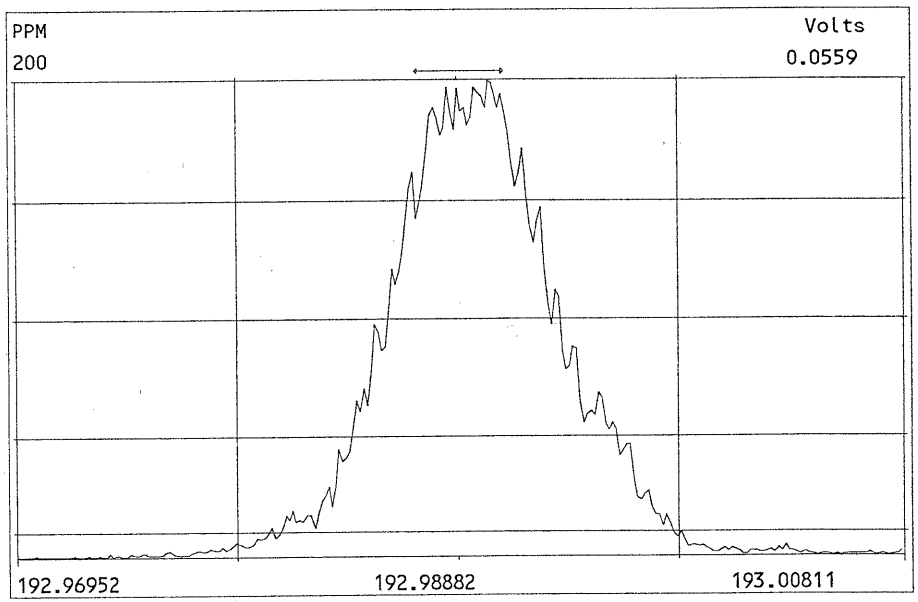
File:25JUL19Z #1-315 Acq:26-JUL-2019 01:47:50 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072519Z2 File Text:Frontier Analytical Laboratory

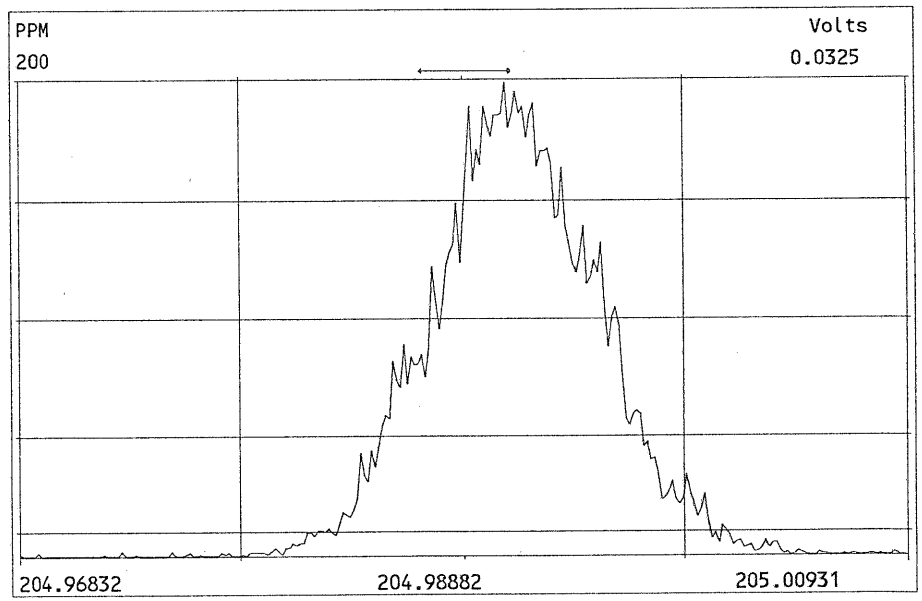


Peak Locate Examination:26-JUL-2019:03:15 File:25JUL19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

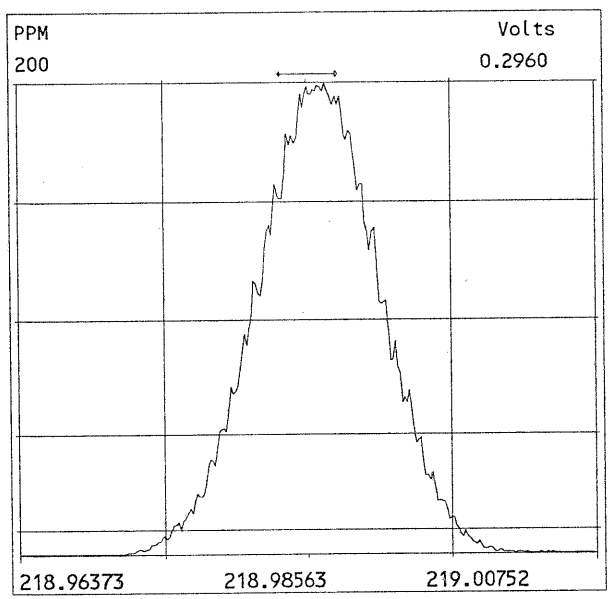


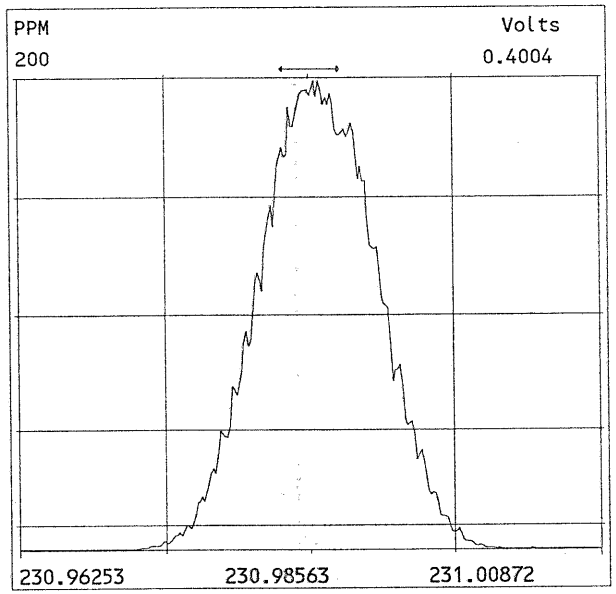


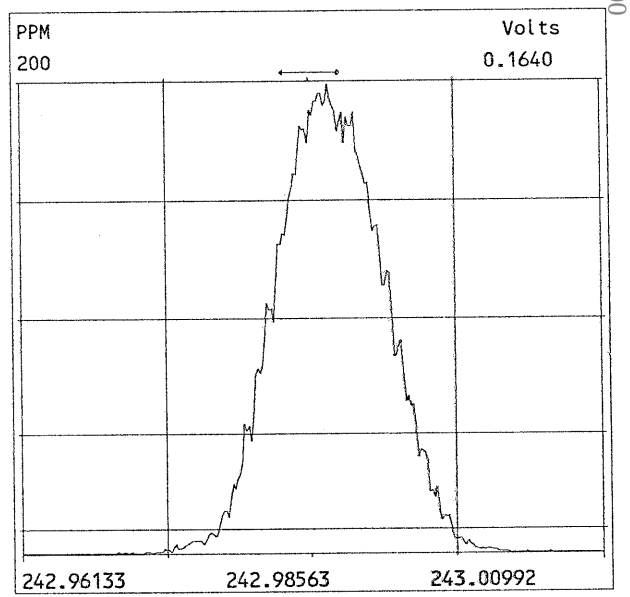


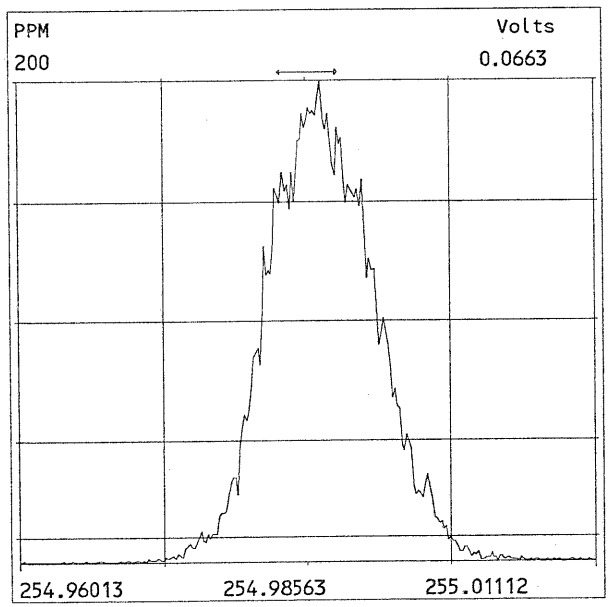


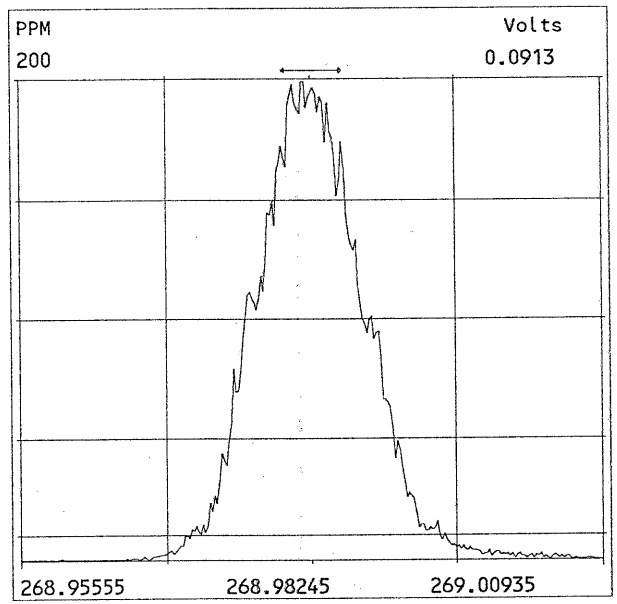
Peak Locate Examination:26-JUL-2019:03:17 File:25JUL19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

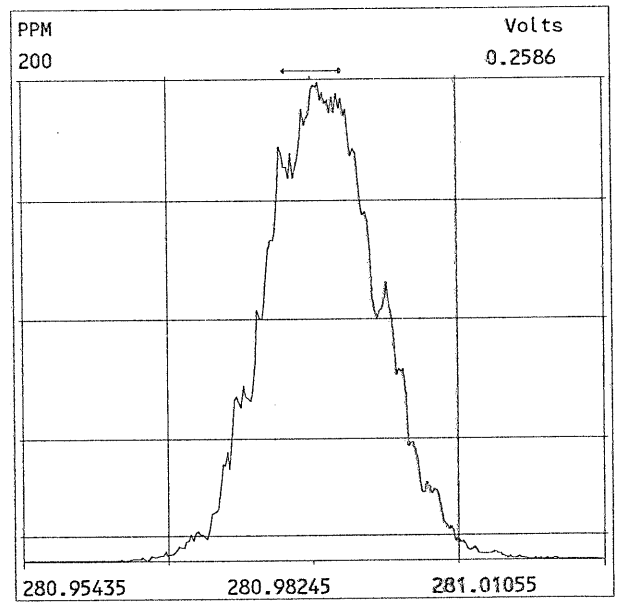




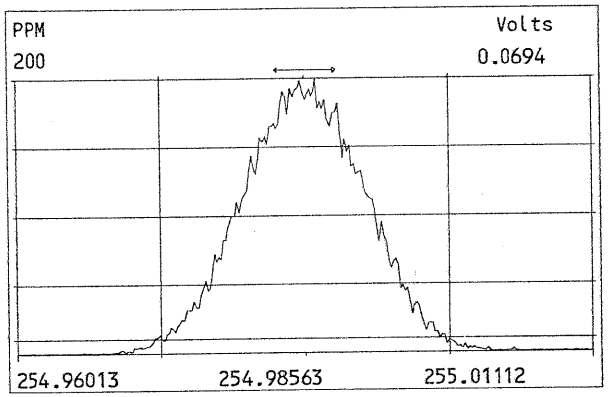


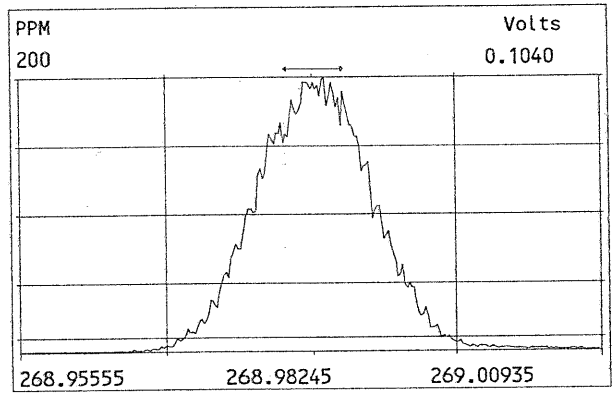


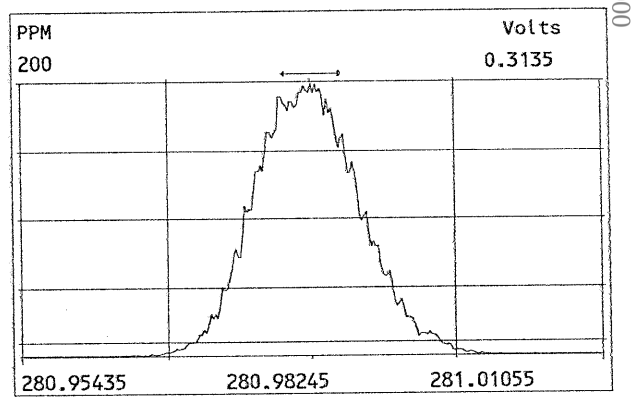


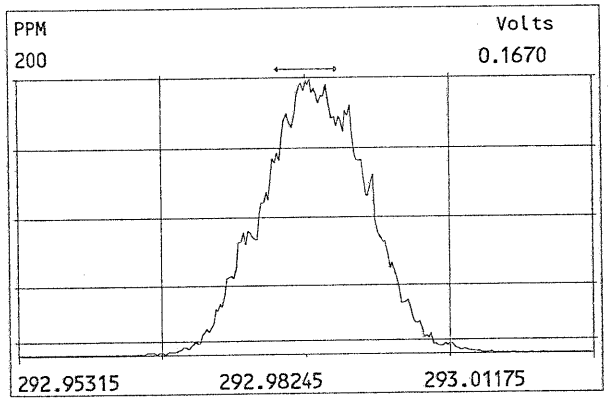


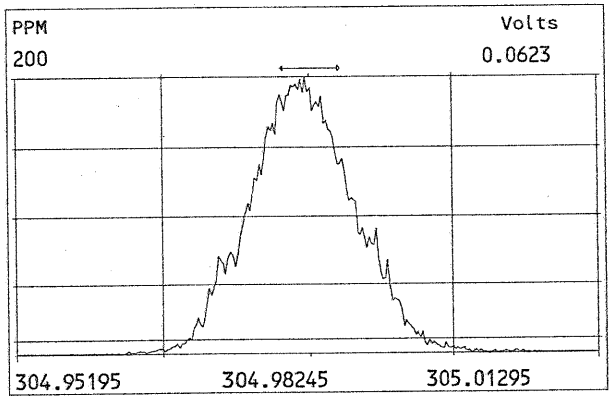
Peak Locate Examination:26-JUL-2019:03:19 File:25JUL19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

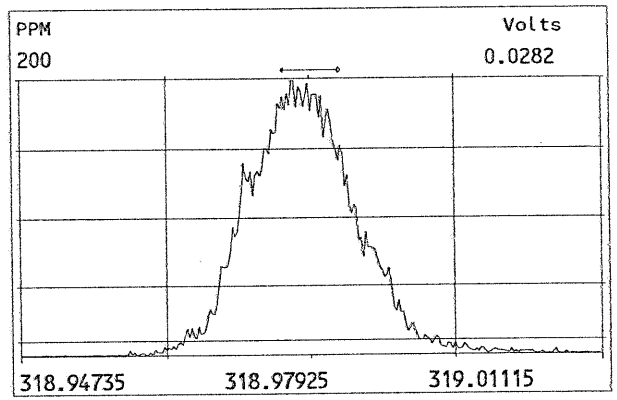


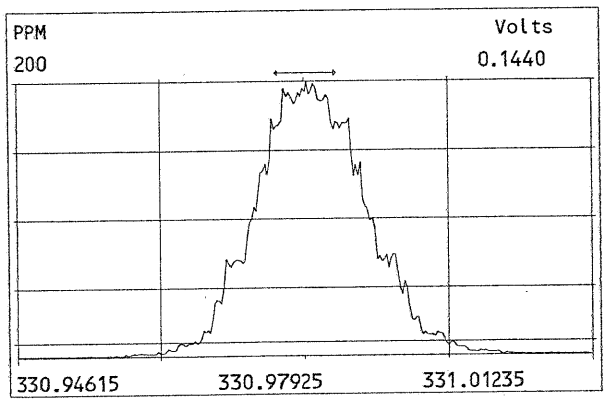


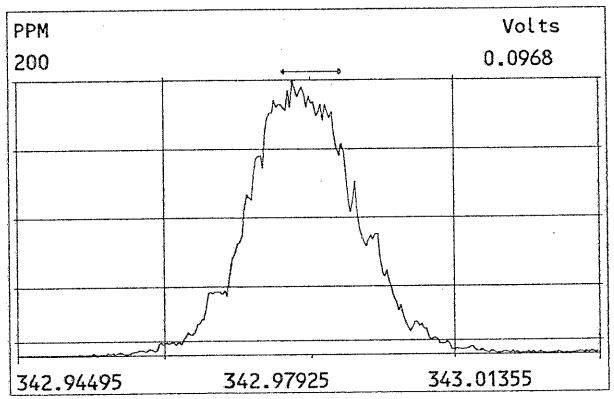






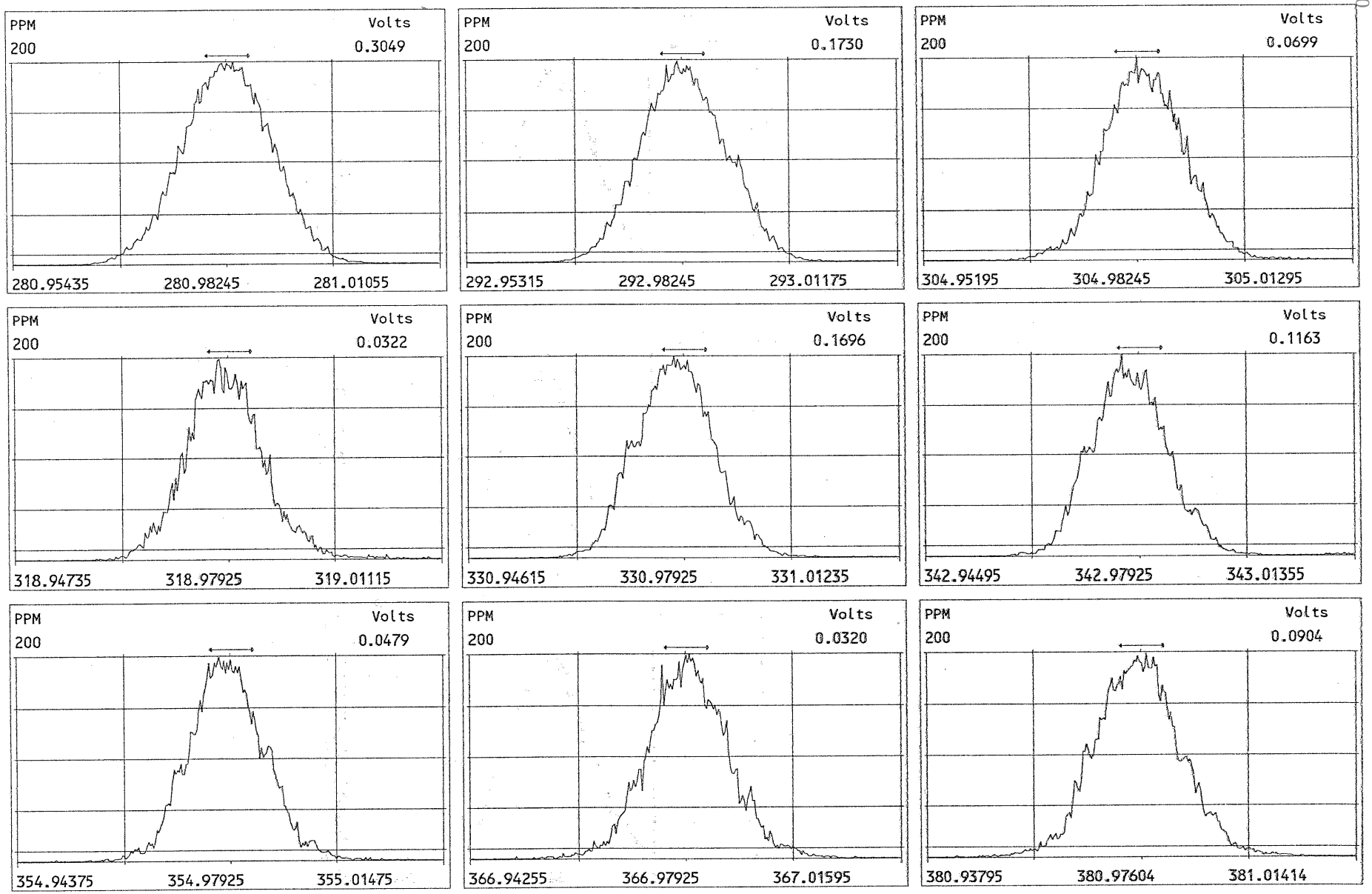






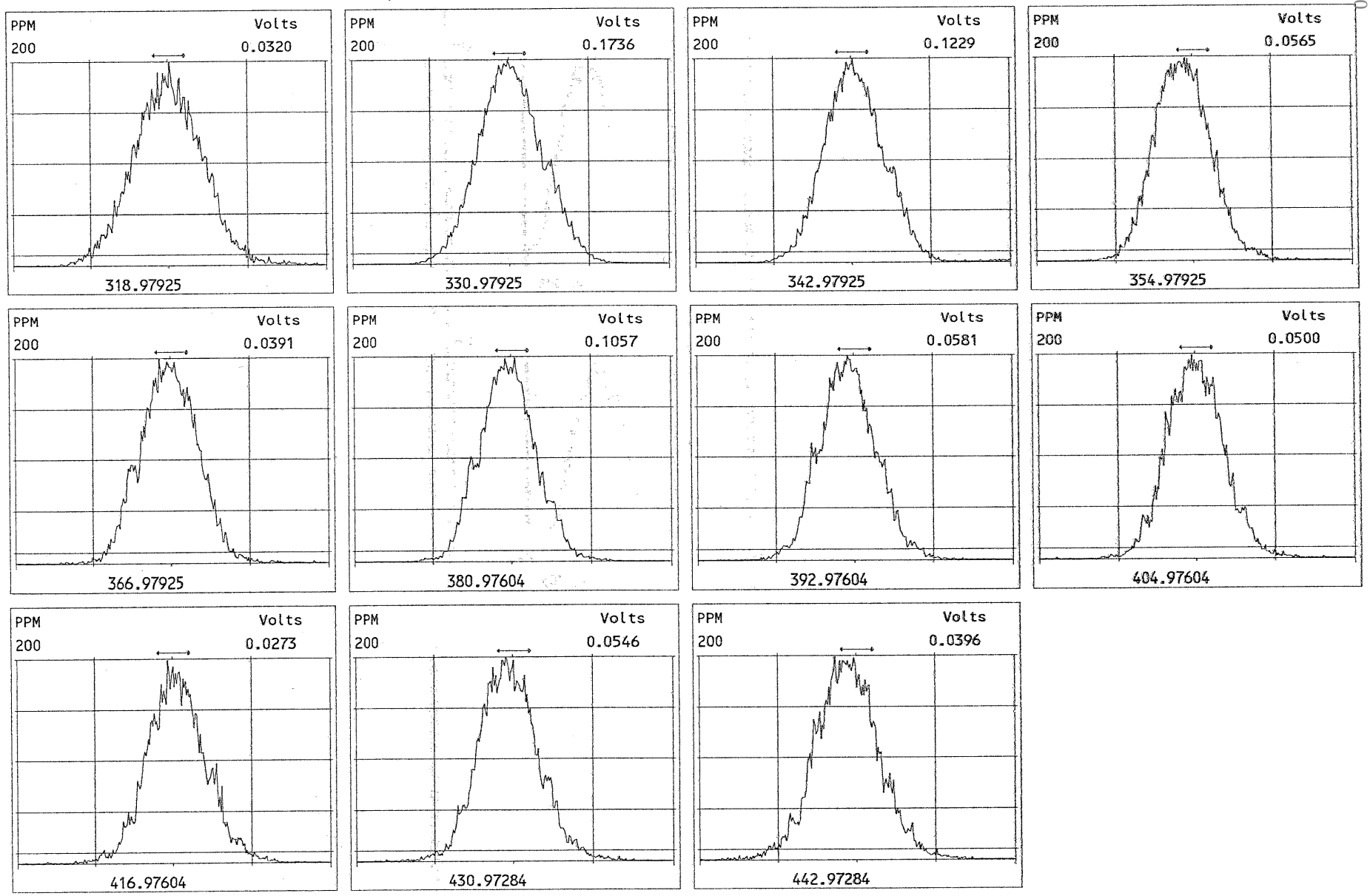
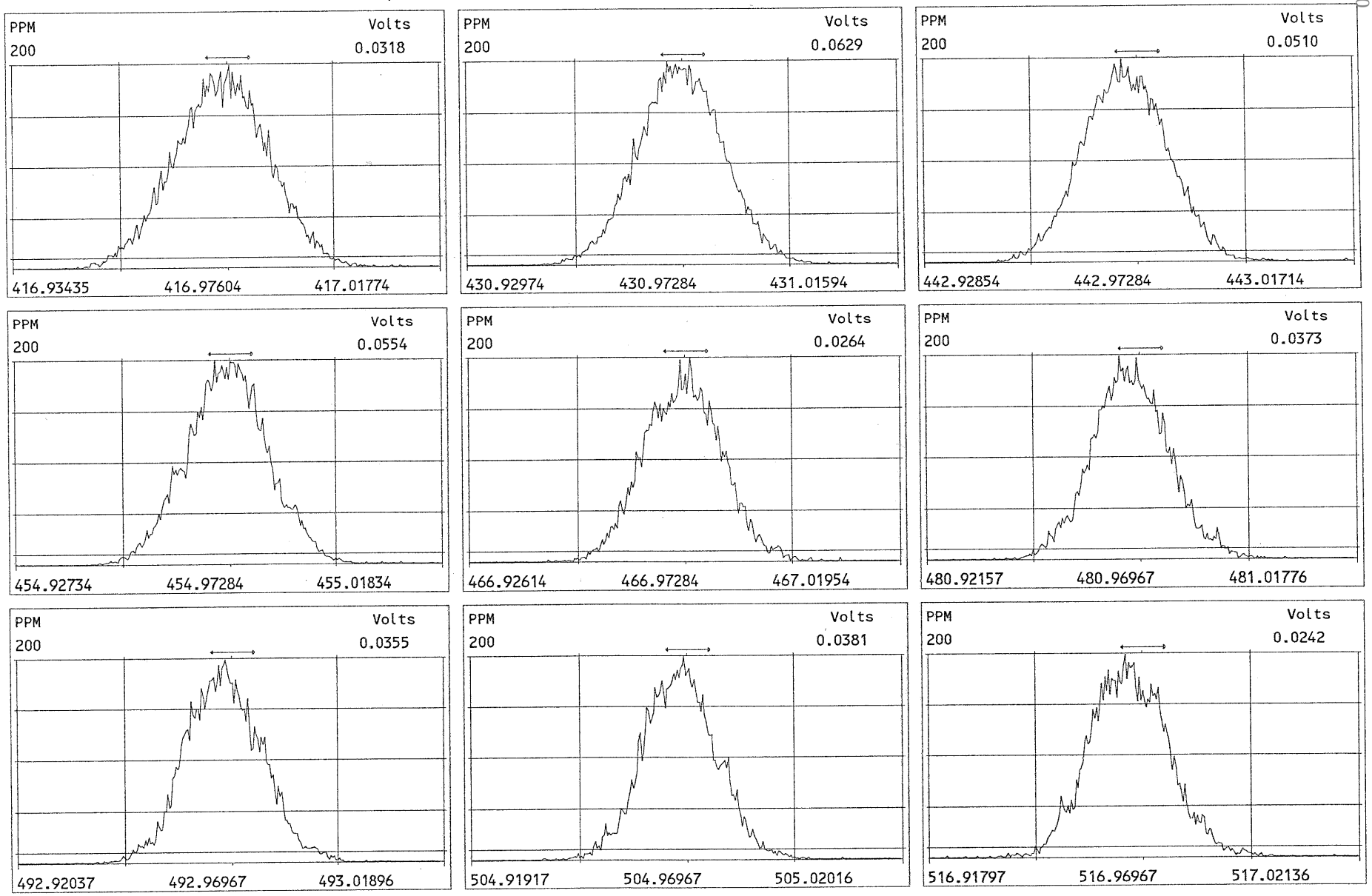
Peak Locate Examination:26-JUL-2019:03:22 File:25JUL19Z_RES_CHECK

Experiment:1668PCB Function:4 Reference:PFK



Peak Locate Examination:26-JUL-2019:03:24 File:25JUL19Z_RES_CHECK

Experiment:1668PCB Function:5 Reference:PFK



Peak Locate Examination:26-JUL-2019:03:26 File:25JUL19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK